Full wwPDB NMR Structure Validation Report

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PDB ID	:	2MXC / pdb_00002mxc
BMRB ID	:	25402
Title	:	Solution structure of the full length sorting nexin 3
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Deposited on	:	2014-12-20

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

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

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

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

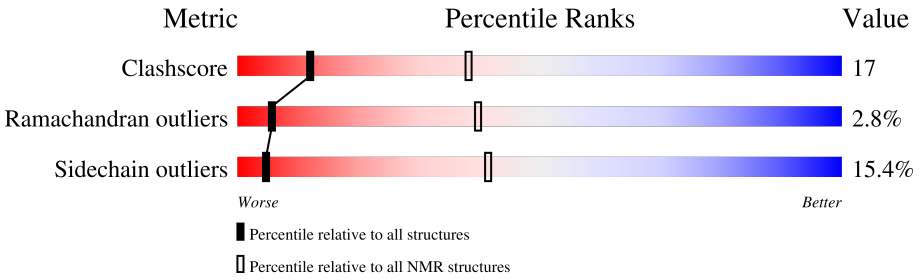
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber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

1 Overall quality at a glance

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

The overall completeness of chemical shifts assignment is 88%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	172	41% 35% · 19%

2 Ensemble composition and analysis

This entry contains 20 models. Model 18 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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:22-A:160 (139)	0.64	18

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

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

The models can be grouped into 3 clusters and 4 single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 2808 atoms, of which 1400 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Sorting nexin-3.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	172	2808	888	1400	261	256	3	0

There are 11 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-9	MET	-	expression tag	UNP O60493
A	-8	ALA	-	expression tag	UNP O60493
A	-7	HIS	-	expression tag	UNP O60493
A	-6	HIS	-	expression tag	UNP O60493
A	-5	HIS	-	expression tag	UNP O60493
A	-4	HIS	-	expression tag	UNP O60493
A	-3	HIS	-	expression tag	UNP O60493
A	-2	HIS	-	expression tag	UNP O60493
A	-1	VAL	-	expression tag	UNP O60493
A	0	GLY	-	expression tag	UNP O60493
A	1	THR	-	expression tag	UNP O60493

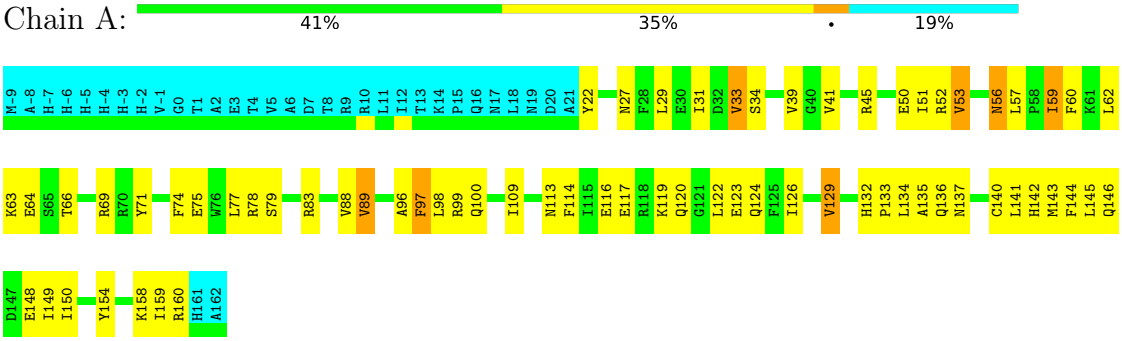
4 Residue-property plots

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: Sorting nexin-3

Chain A:



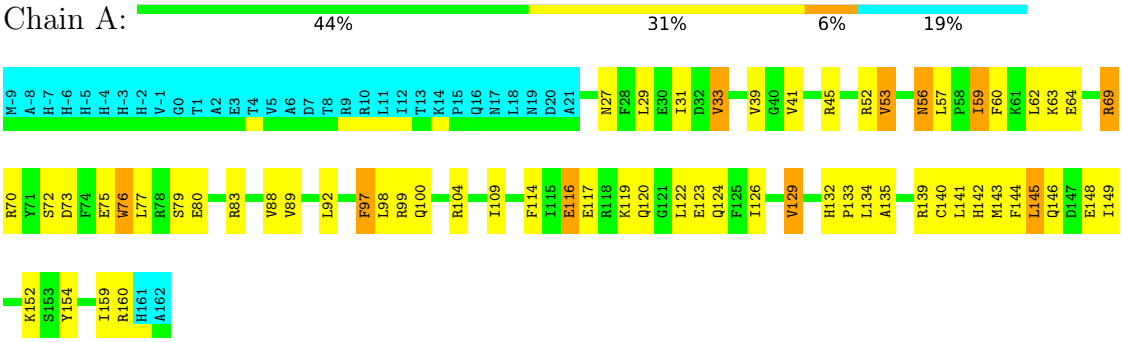
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: Sorting nexin-3

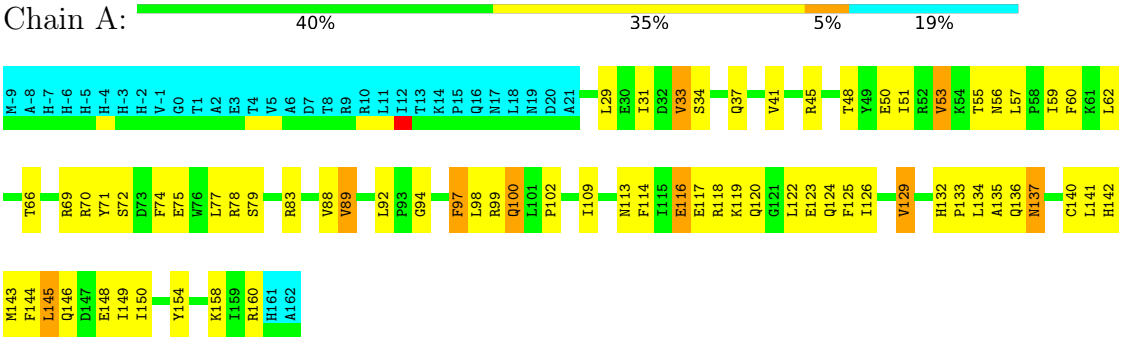
Chain A:



4.2.2 Score per residue for model 2

• Molecule 1: Sorting nexin-3

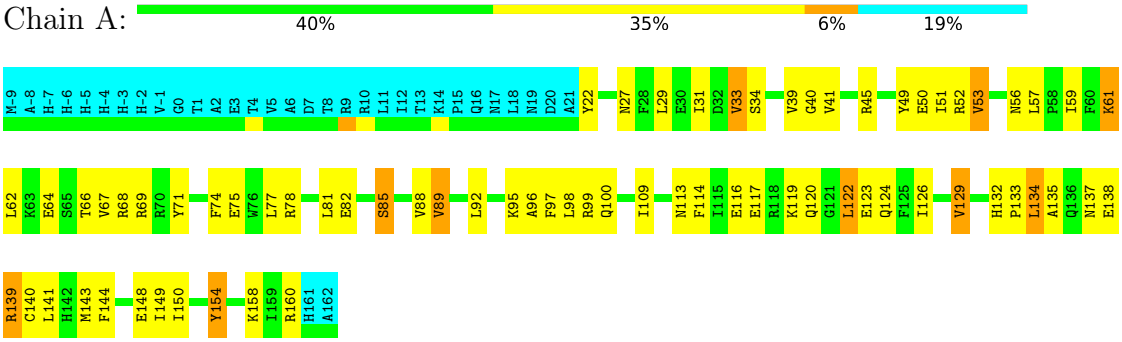
Chain A:



4.2.3 Score per residue for model 3

• Molecule 1: Sorting nexin-3

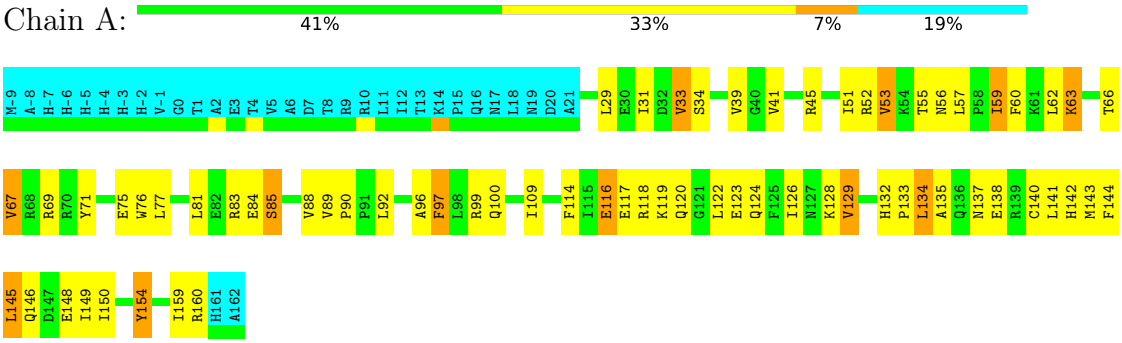
Chain A:



4.2.4 Score per residue for model 4

• Molecule 1: Sorting nexin-3

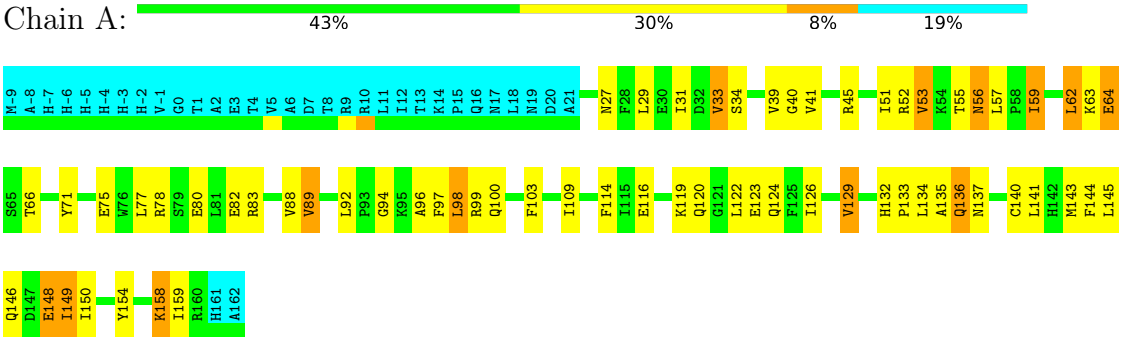
Chain A:



4.2.5 Score per residue for model 5

• Molecule 1: Sorting nexin-3

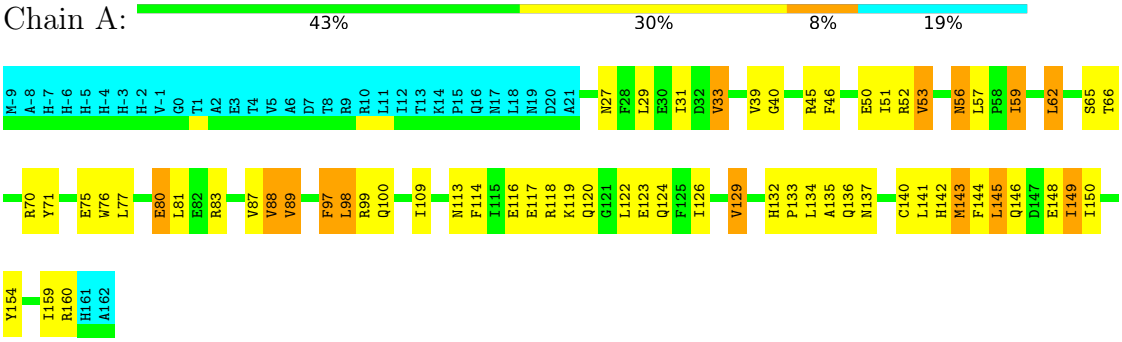
Chain A:



4.2.6 Score per residue for model 6

• Molecule 1: Sorting nexin-3

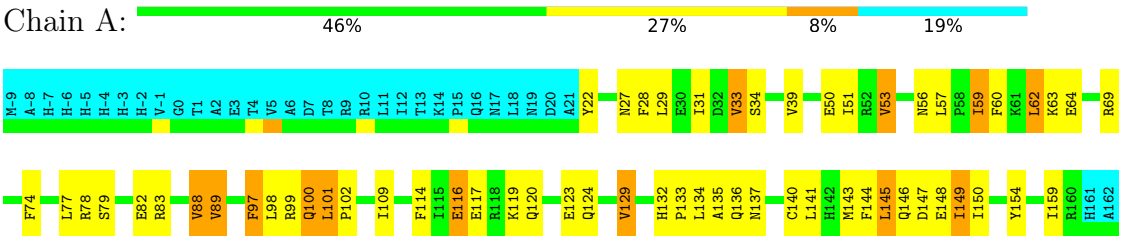
Chain A:



4.2.7 Score per residue for model 7

• Molecule 1: Sorting nexin-3

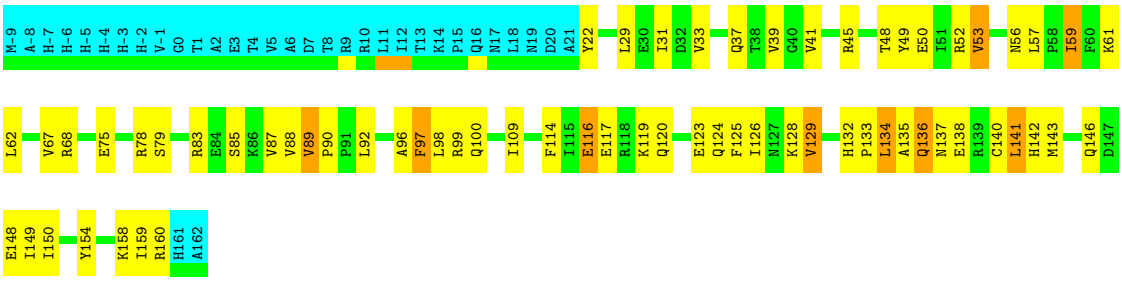
Chain A:



4.2.8 Score per residue for model 8

• Molecule 1: Sorting nexin-3

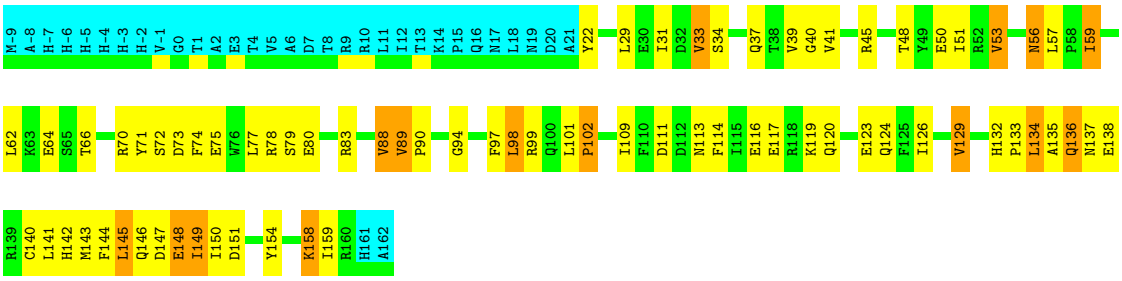
Chain A:



4.2.9 Score per residue for model 9

• Molecule 1: Sorting nexin-3

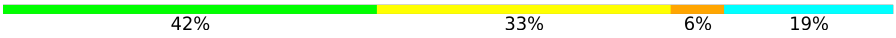
Chain A:

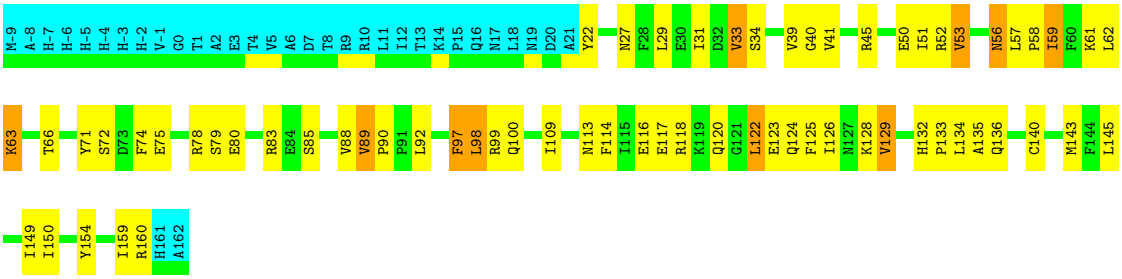


4.2.10 Score per residue for model 10

• Molecule 1: Sorting nexin-3

Chain A:

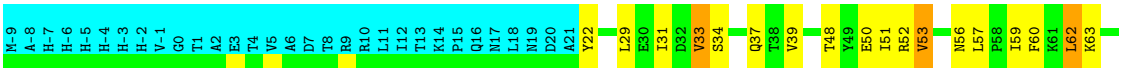


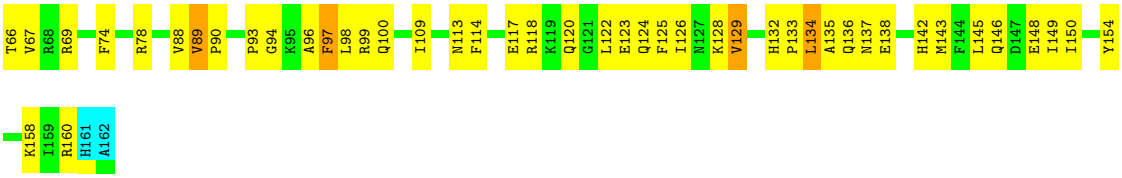


4.2.11 Score per residue for model 11

• Molecule 1: Sorting nexin-3

Chain A:

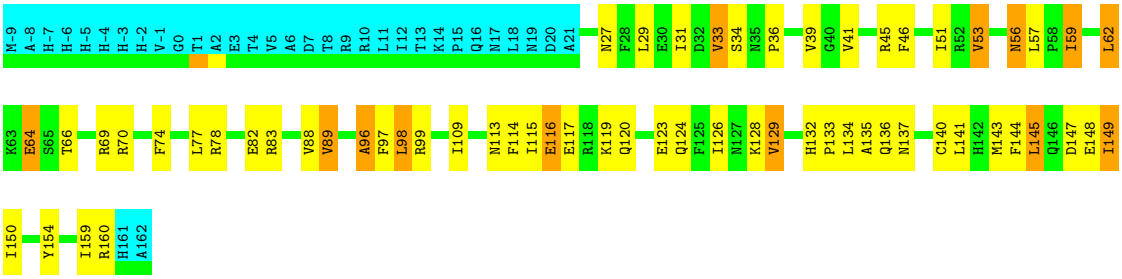




4.2.12 Score per residue for model 12

• Molecule 1: Sorting nexin-3

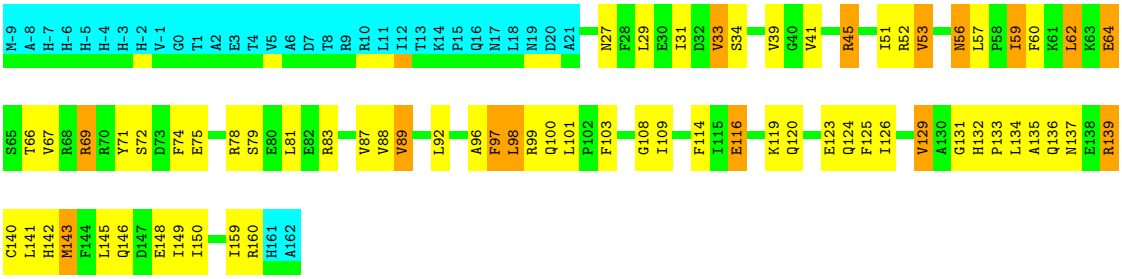
Chain A:



4.2.13 Score per residue for model 13

• Molecule 1: Sorting nexin-3

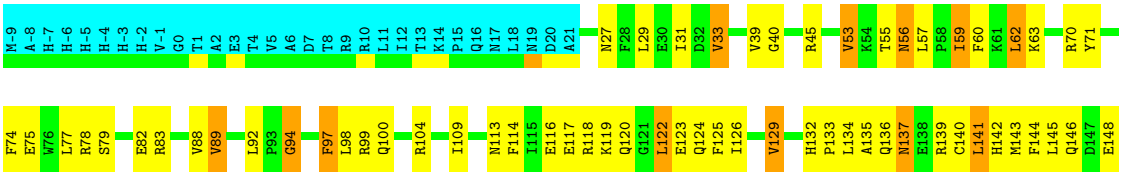
Chain A:

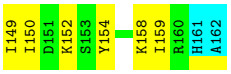


4.2.14 Score per residue for model 14

• Molecule 1: Sorting nexin-3

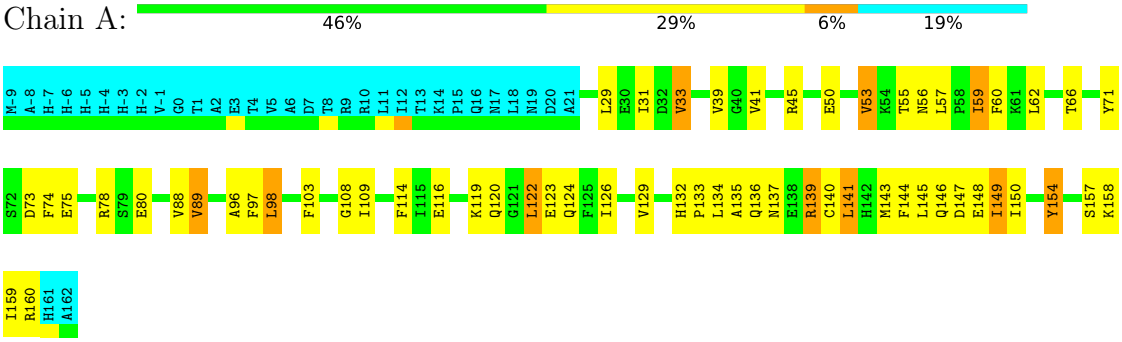
Chain A:





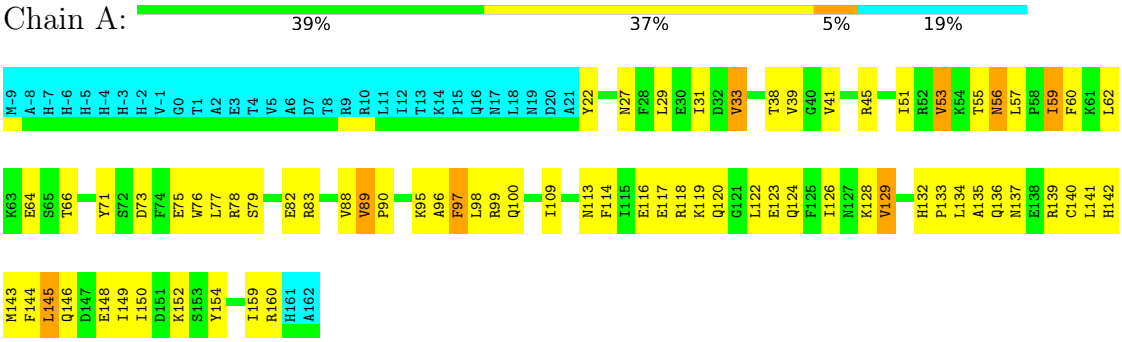
4.2.15 Score per residue for model 15

• Molecule 1: Sorting nexin-3



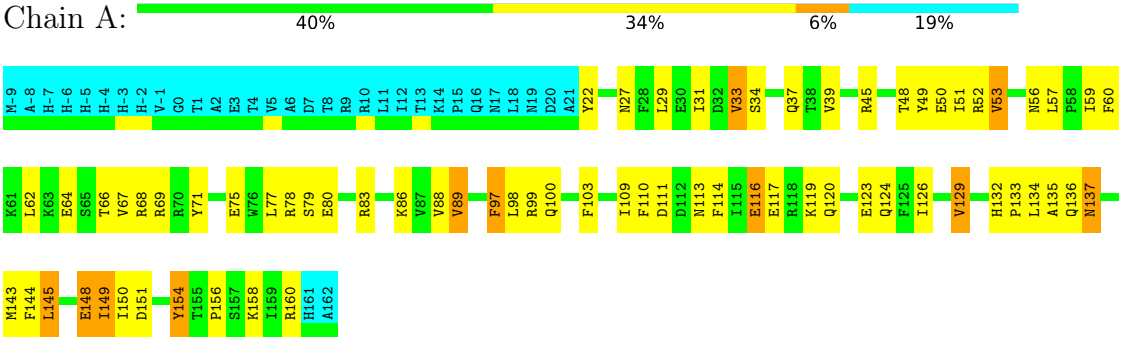
4.2.16 Score per residue for model 16

• Molecule 1: Sorting nexin-3



4.2.17 Score per residue for model 17

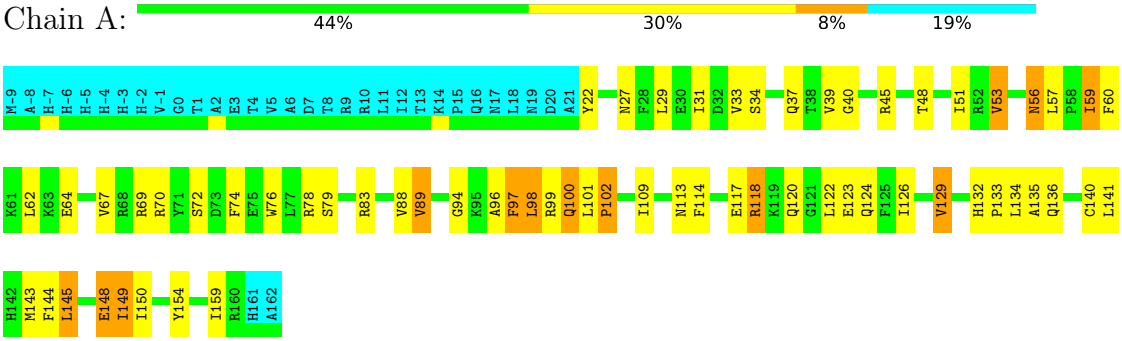
• Molecule 1: Sorting nexin-3



4.2.18 Score per residue for model 18 (medoid)

• Molecule 1: Sorting nexin-3

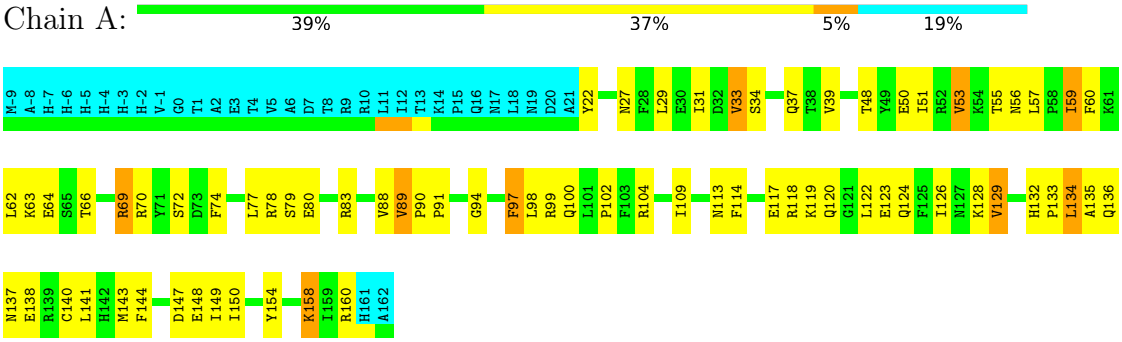
Chain A:



4.2.19 Score per residue for model 19

• Molecule 1: Sorting nexin-3

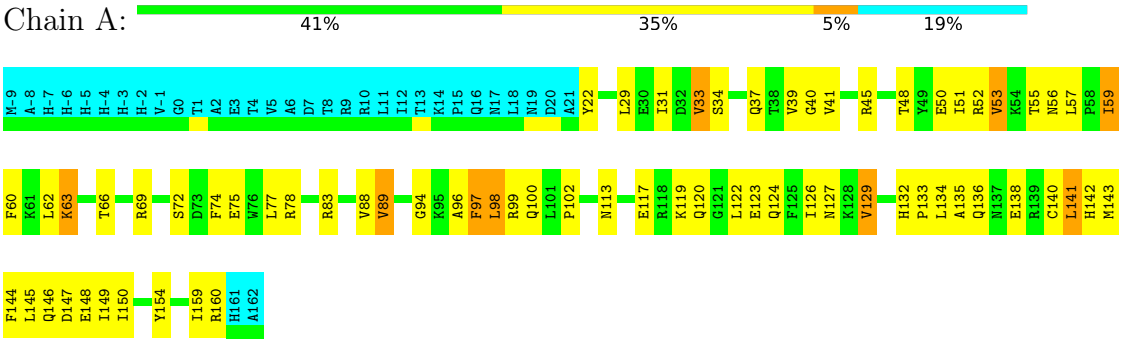
Chain A:



4.2.20 Score per residue for model 20

• Molecule 1: Sorting nexin-3

Chain A:



5 Refinement protocol and experimental data overview

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

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
CcpNmr Analysis	structure solution	2.2
CcpNmr Analysis	structure solution	2.2
CcpNmr Analysis	structure solution	2.2
CcpNmr Analysis	structure solution	2.2
ARIA	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	2071
Number of shifts mapped to atoms	2071
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	88%

6 Model quality

6.1 Standard geometry

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

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	1146	1146	1144	40±4
All	All	22920	22920	22880	792

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 17.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:143:MET:HE2	1:A:150:ILE:HG23	0.77	1.55	19	18
1:A:140:CYS:HA	1:A:143:MET:SD	0.70	2.26	6	13
1:A:69:ARG:NH1	1:A:144:PHE:HA	0.70	2.01	18	2
1:A:137:ASN:O	1:A:158:LYS:HB3	0.68	1.89	9	3
1:A:98:LEU:HD22	1:A:98:LEU:H	0.68	1.49	18	18
1:A:109:ILE:HA	1:A:114:PHE:CD2	0.68	2.24	19	18
1:A:132:HIS:CG	1:A:133:PRO:HD2	0.67	2.24	3	20
1:A:59:ILE:HG13	1:A:159:ILE:HG21	0.67	1.66	10	14
1:A:120:GLN:O	1:A:124:GLN:HG2	0.67	1.90	6	20
1:A:143:MET:SD	1:A:150:ILE:HG23	0.65	2.32	18	1
1:A:77:LEU:HG	1:A:144:PHE:CD2	0.64	2.27	1	10
1:A:140:CYS:O	1:A:143:MET:HG2	0.63	1.94	18	14
1:A:60:PHE:CZ	1:A:145:LEU:HD13	0.62	2.28	13	2
1:A:79:SER:O	1:A:83:ARG:HG2	0.62	1.95	8	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:29:LEU:HD22	1:A:57:LEU:HD11	0.61	1.72	3	20
1:A:51:ILE:HD13	1:A:69:ARG:HD3	0.60	1.72	13	1
1:A:97:PHE:O	1:A:101:LEU:HG	0.59	1.97	13	2
1:A:70:ARG:HG2	1:A:73:ASP:OD1	0.59	1.97	9	1
1:A:60:PHE:CE1	1:A:145:LEU:HD13	0.59	2.32	17	2
1:A:142:HIS:O	1:A:146:GLN:HB2	0.59	1.98	14	10
1:A:60:PHE:HA	1:A:146:GLN:NE2	0.59	2.13	15	3
1:A:60:PHE:CZ	1:A:145:LEU:HG	0.58	2.33	15	2
1:A:132:HIS:O	1:A:136:GLN:HG2	0.57	1.98	17	9
1:A:77:LEU:HD22	1:A:144:PHE:CD2	0.57	2.35	16	2
1:A:134:LEU:O	1:A:138:GLU:HG2	0.57	1.99	4	5
1:A:101:LEU:HD22	1:A:101:LEU:C	0.57	2.25	7	1
1:A:129:VAL:O	1:A:135:ALA:HB1	0.56	2.00	5	19
1:A:33:VAL:O	1:A:119:LYS:HG2	0.56	2.00	14	13
1:A:113:ASN:O	1:A:117:GLU:HG3	0.56	2.00	14	3
1:A:33:VAL:HG22	1:A:123:GLU:HB3	0.55	1.78	11	6
1:A:75:GLU:HA	1:A:92:LEU:HD11	0.55	1.78	10	9
1:A:51:ILE:HD11	1:A:74:PHE:CZ	0.55	2.37	13	10
1:A:69:ARG:HG3	1:A:73:ASP:OD2	0.55	2.01	1	1
1:A:113:ASN:O	1:A:117:GLU:HG2	0.55	2.02	18	10
1:A:80:GLU:HA	1:A:80:GLU:OE1	0.55	2.02	5	1
1:A:101:LEU:HD12	1:A:101:LEU:C	0.55	2.27	13	2
1:A:144:PHE:CD2	1:A:150:ILE:HD11	0.54	2.37	17	4
1:A:74:PHE:CD2	1:A:122:LEU:HG	0.54	2.37	3	5
1:A:143:MET:HE3	1:A:151:ASP:O	0.54	2.02	17	1
1:A:143:MET:HE1	1:A:154:TYR:CD1	0.54	2.38	2	16
1:A:80:GLU:HB3	1:A:140:CYS:SG	0.54	2.42	9	4
1:A:71:TYR:O	1:A:75:GLU:HG3	0.54	2.02	16	11
1:A:50:GLU:HG2	1:A:66:THR:CG2	0.54	2.32	15	6
1:A:120:GLN:HA	1:A:123:GLU:OE2	0.53	2.02	7	10
1:A:117:GLU:HA	1:A:120:GLN:NE2	0.53	2.18	14	13
1:A:139:ARG:HG2	1:A:158:LYS:O	0.53	2.04	3	1
1:A:69:ARG:NE	1:A:69:ARG:HA	0.53	2.19	19	3
1:A:31:ILE:HA	1:A:52:ARG:O	0.53	2.04	11	8
1:A:57:LEU:HD13	1:A:60:PHE:CE1	0.53	2.38	17	5
1:A:123:GLU:HA	1:A:126:ILE:HG22	0.53	1.81	11	19
1:A:141:LEU:O	1:A:145:LEU:HD22	0.53	2.04	2	9
1:A:137:ASN:O	1:A:158:LYS:HA	0.52	2.04	17	1
1:A:148:GLU:HG2	1:A:149:ILE:CD1	0.52	2.34	9	4
1:A:37:GLN:HB3	1:A:48:THR:OG1	0.52	2.05	17	8
1:A:27:ASN:OD1	1:A:57:LEU:HD23	0.51	2.05	1	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:55:THR:O	1:A:63:LYS:HE2	0.51	2.05	5	1
1:A:51:ILE:O	1:A:66:THR:HA	0.51	2.05	12	10
1:A:97:PHE:HA	1:A:100:GLN:HB3	0.51	1.82	4	12
1:A:143:MET:HE2	1:A:150:ILE:CG2	0.51	2.35	15	2
1:A:138:GLU:OE2	1:A:158:LYS:HE3	0.51	2.06	3	1
1:A:103:PHE:O	1:A:108:GLY:HA2	0.51	2.06	15	2
1:A:46:PHE:CD2	1:A:70:ARG:HD3	0.50	2.41	6	2
1:A:50:GLU:HG2	1:A:66:THR:HG22	0.50	1.83	15	3
1:A:33:VAL:HG21	1:A:122:LEU:HB3	0.50	1.83	3	5
1:A:78:ARG:O	1:A:82:GLU:HG3	0.50	2.07	16	6
1:A:60:PHE:CE2	1:A:145:LEU:HG	0.50	2.42	2	5
1:A:62:LEU:HD11	1:A:146:GLN:HA	0.50	1.84	5	1
1:A:49:TYR:O	1:A:68:ARG:HA	0.50	2.07	8	3
1:A:95:LYS:N	1:A:98:LEU:HD23	0.50	2.22	16	2
1:A:22:TYR:CG	1:A:56:ASN:HB2	0.49	2.42	9	1
1:A:52:ARG:HG3	1:A:66:THR:HG23	0.49	1.84	13	1
1:A:101:LEU:HB2	1:A:102:PRO:CD	0.49	2.38	18	1
1:A:69:ARG:HH11	1:A:150:ILE:HD12	0.49	1.67	4	2
1:A:72:SER:HA	1:A:75:GLU:OE1	0.49	2.07	1	4
1:A:94:GLY:O	1:A:98:LEU:HD23	0.49	2.06	14	1
1:A:78:ARG:HG3	1:A:89:VAL:CG1	0.48	2.38	9	17
1:A:33:VAL:HG13	1:A:123:GLU:HA	0.48	1.85	20	3
1:A:137:ASN:ND2	1:A:158:LYS:HE3	0.48	2.24	2	1
1:A:137:ASN:ND2	1:A:158:LYS:HE2	0.48	2.23	11	1
1:A:59:ILE:HD12	1:A:136:GLN:O	0.48	2.08	9	4
1:A:81:LEU:CD1	1:A:129:VAL:HB	0.48	2.39	13	2
1:A:118:ARG:O	1:A:122:LEU:HB2	0.48	2.08	6	8
1:A:31:ILE:HG12	1:A:53:VAL:HB	0.48	1.85	16	20
1:A:41:VAL:O	1:A:45:ARG:HB2	0.48	2.09	3	13
1:A:50:GLU:HA	1:A:67:VAL:O	0.47	2.10	8	3
1:A:33:VAL:HA	1:A:50:GLU:O	0.47	2.09	7	6
1:A:69:ARG:HG3	1:A:73:ASP:CG	0.47	2.33	1	1
1:A:120:GLN:O	1:A:123:GLU:HG2	0.47	2.09	5	2
1:A:67:VAL:HB	1:A:69:ARG:NH1	0.47	2.25	13	1
1:A:132:HIS:ND1	1:A:133:PRO:HD2	0.47	2.24	19	10
1:A:60:PHE:CE2	1:A:145:LEU:HD22	0.47	2.45	20	1
1:A:143:MET:HG3	1:A:150:ILE:HG13	0.47	1.86	4	4
1:A:56:ASN:HA	1:A:63:LYS:CE	0.47	2.39	5	1
1:A:85:SER:HB2	1:A:87:VAL:HG23	0.46	1.86	8	1
1:A:135:ALA:C	1:A:141:LEU:HD22	0.46	2.35	8	2
1:A:67:VAL:HB	1:A:69:ARG:CZ	0.46	2.40	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:56:ASN:C	1:A:56:ASN:HD22	0.46	2.16	10	8
1:A:22:TYR:CD1	1:A:22:TYR:N	0.46	2.83	3	7
1:A:97:PHE:CD2	1:A:117:GLU:HB3	0.46	2.45	19	4
1:A:138:GLU:C	1:A:159:ILE:HG12	0.46	2.34	8	2
1:A:111:ASP:OD2	1:A:113:ASN:HB2	0.46	2.10	17	1
1:A:109:ILE:HG22	1:A:114:PHE:CE2	0.46	2.46	9	2
1:A:69:ARG:CZ	1:A:149:ILE:HG23	0.46	2.40	12	1
1:A:69:ARG:NH1	1:A:150:ILE:HG13	0.46	2.25	17	1
1:A:52:ARG:HG3	1:A:66:THR:CG2	0.46	2.40	13	2
1:A:77:LEU:HG	1:A:144:PHE:CD1	0.46	2.46	20	2
1:A:90:PRO:HG3	1:A:128:LYS:HD2	0.46	1.88	10	6
1:A:138:GLU:HA	1:A:158:LYS:HA	0.46	1.87	8	1
1:A:62:LEU:N	1:A:62:LEU:HD13	0.46	2.26	7	2
1:A:125:PHE:O	1:A:129:VAL:HG13	0.46	2.11	2	6
1:A:83:ARG:HD2	1:A:84:GLU:N	0.46	2.26	4	1
1:A:72:SER:HA	1:A:75:GLU:OE2	0.46	2.11	13	2
1:A:52:ARG:HG2	1:A:66:THR:OG1	0.45	2.11	6	1
1:A:141:LEU:HG	1:A:145:LEU:HD11	0.45	1.88	13	1
1:A:40:GLY:HA3	1:A:45:ARG:HA	0.45	1.88	3	8
1:A:70:ARG:HG2	1:A:71:TYR:N	0.45	2.27	14	1
1:A:31:ILE:HB	1:A:127:ASN:ND2	0.45	2.27	20	1
1:A:55:THR:HG22	1:A:63:LYS:O	0.45	2.10	20	3
1:A:93:PRO:HG3	1:A:122:LEU:N	0.45	2.25	11	1
1:A:109:ILE:HA	1:A:114:PHE:CE2	0.45	2.47	7	1
1:A:59:ILE:HD12	1:A:159:ILE:HG13	0.45	1.88	1	4
1:A:61:LYS:HD2	1:A:61:LYS:C	0.44	2.37	3	2
1:A:109:ILE:HA	1:A:114:PHE:CD1	0.44	2.47	18	1
1:A:116:GLU:HA	1:A:119:LYS:HB3	0.44	1.88	13	8
1:A:55:THR:OG1	1:A:57:LEU:HG	0.44	2.13	5	1
1:A:55:THR:HG21	1:A:60:PHE:CD2	0.44	2.48	15	5
1:A:124:GLN:O	1:A:128:LYS:HE2	0.44	2.12	19	1
1:A:135:ALA:C	1:A:137:ASN:H	0.44	2.21	4	7
1:A:96:ALA:O	1:A:99:ARG:HD2	0.44	2.13	12	3
1:A:137:ASN:ND2	1:A:158:LYS:HB3	0.43	2.28	15	2
1:A:135:ALA:O	1:A:141:LEU:HD22	0.43	2.13	5	7
1:A:81:LEU:O	1:A:85:SER:HB2	0.43	2.13	3	2
1:A:98:LEU:HD22	1:A:98:LEU:N	0.43	2.28	7	4
1:A:137:ASN:HD22	1:A:158:LYS:HE3	0.43	1.74	14	1
1:A:76:TRP:CE2	1:A:152:LYS:HG3	0.43	2.48	16	1
1:A:70:ARG:HG3	1:A:72:SER:H	0.43	1.73	18	1
1:A:27:ASN:HB2	1:A:57:LEU:CD2	0.43	2.44	19	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:83:ARG:C	1:A:83:ARG:HD2	0.43	2.38	5	3
1:A:22:TYR:CE1	1:A:63:LYS:HD2	0.43	2.49	10	1
1:A:62:LEU:H	1:A:62:LEU:HD13	0.43	1.73	5	2
1:A:70:ARG:HG2	1:A:73:ASP:OD2	0.43	2.13	1	1
1:A:78:ARG:CZ	1:A:91:PRO:HA	0.43	2.44	19	1
1:A:101:LEU:CD1	1:A:101:LEU:H	0.43	2.26	7	1
1:A:142:HIS:HA	1:A:146:GLN:CD	0.43	2.39	8	1
1:A:142:HIS:HA	1:A:146:GLN:OE1	0.43	2.13	13	1
1:A:33:VAL:HG13	1:A:123:GLU:CA	0.43	2.44	14	1
1:A:27:ASN:HD22	1:A:56:ASN:ND2	0.42	2.12	13	7
1:A:149:ILE:H	1:A:149:ILE:HD12	0.42	1.72	15	3
1:A:73:ASP:HB3	1:A:150:ILE:HD12	0.42	1.90	15	2
1:A:139:ARG:HB2	1:A:157:SER:O	0.42	2.15	15	1
1:A:119:LYS:O	1:A:123:GLU:HG2	0.42	2.15	19	1
1:A:38:THR:HG22	1:A:45:ARG:NE	0.42	2.29	16	1
1:A:135:ALA:C	1:A:137:ASN:N	0.42	2.76	8	6
1:A:60:PHE:O	1:A:62:LEU:HD22	0.42	2.14	7	1
1:A:87:VAL:CG1	1:A:89:VAL:HG22	0.42	2.44	13	3
1:A:88:VAL:O	1:A:88:VAL:HG13	0.42	2.15	6	3
1:A:76:TRP:NE1	1:A:152:LYS:HD3	0.42	2.30	1	1
1:A:123:GLU:HG3	1:A:124:GLN:NE2	0.42	2.29	15	2
1:A:154:TYR:O	1:A:156:PRO:HD3	0.42	2.14	17	1
1:A:62:LEU:C	1:A:64:GLU:H	0.42	2.23	12	3
1:A:147:ASP:OD1	1:A:149:ILE:HD12	0.42	2.15	9	1
1:A:96:ALA:HA	1:A:99:ARG:CZ	0.42	2.45	12	1
1:A:131:GLY:HA2	1:A:136:GLN:NE2	0.42	2.30	13	1
1:A:98:LEU:H	1:A:98:LEU:CD2	0.41	2.24	13	2
1:A:62:LEU:HD13	1:A:62:LEU:N	0.41	2.30	5	1
1:A:74:PHE:CE2	1:A:122:LEU:HG	0.41	2.50	11	1
1:A:67:VAL:CG2	1:A:69:ARG:HE	0.41	2.28	4	1
1:A:150:ILE:CG2	1:A:152:LYS:HE3	0.41	2.45	14	1
1:A:87:VAL:HG22	1:A:134:LEU:C	0.41	2.40	8	1
1:A:62:LEU:HD12	1:A:65:SER:CB	0.41	2.45	6	1
1:A:90:PRO:HD2	1:A:129:VAL:CG1	0.41	2.46	9	2
1:A:101:LEU:HB3	1:A:102:PRO:CD	0.41	2.46	9	1
1:A:139:ARG:HD2	1:A:139:ARG:O	0.41	2.15	13	1
1:A:45:ARG:HD3	1:A:110:PHE:CZ	0.41	2.51	17	1
1:A:70:ARG:HG2	1:A:72:SER:H	0.41	1.75	19	1
1:A:137:ASN:O	1:A:158:LYS:CB	0.41	2.69	19	1
1:A:76:TRP:O	1:A:80:GLU:HB2	0.41	2.16	6	1
1:A:83:ARG:HD2	1:A:83:ARG:C	0.40	2.41	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:36:PRO:HB3	1:A:115:ILE:HG21	0.40	1.92	12	1
1:A:51:ILE:O	1:A:66:THR:HG23	0.40	2.15	9	1
1:A:77:LEU:HD13	1:A:77:LEU:C	0.40	2.41	5	1
1:A:137:ASN:HD22	1:A:137:ASN:C	0.40	2.24	8	1
1:A:144:PHE:CD1	1:A:150:ILE:HD11	0.40	2.51	20	1
1:A:125:PHE:CE1	1:A:129:VAL:HG11	0.40	2.52	14	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	139/172 (81%)	117±3 (84±2%)	18±2 (13±2%)	4±2 (3±1%)	6	40
All	All	2780/3440 (81%)	2347 (84%)	355 (13%)	78 (3%)	6	40

All 10 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	88	VAL	20
1	A	34	SER	14
1	A	96	ALA	9
1	A	94	GLY	8
1	A	102	PRO	6
1	A	154	TYR	6
1	A	147	ASP	5
1	A	148	GLU	5
1	A	104	ARG	3
1	A	103	PHE	2

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	127/154 (82%)	107±2 (85±1%)	20±2 (15±1%)	5 41
All	All	2540/3080 (82%)	2148 (85%)	392 (15%)	5 41

All 43 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	33	VAL	20
1	A	53	VAL	20
1	A	56	ASN	20
1	A	59	ILE	20
1	A	62	LEU	20
1	A	89	VAL	20
1	A	97	PHE	20
1	A	129	VAL	20
1	A	134	LEU	20
1	A	149	ILE	20
1	A	39	VAL	19
1	A	99	ARG	16
1	A	116	GLU	16
1	A	160	ARG	15
1	A	148	GLU	14
1	A	145	LEU	13
1	A	64	GLU	11
1	A	98	LEU	9
1	A	100	GLN	8
1	A	63	LYS	7
1	A	122	LEU	7
1	A	136	GLN	7
1	A	139	ARG	6
1	A	69	ARG	5
1	A	141	LEU	4
1	A	76	TRP	3
1	A	137	ASN	3
1	A	85	SER	3
1	A	67	VAL	3
1	A	158	LYS	3
1	A	80	GLU	3
1	A	22	TYR	3
1	A	61	LYS	2
1	A	143	MET	2

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Mol	Chain	Res	Type	Models (Total)
1	A	118	ARG	2
1	A	70	ARG	1
1	A	28	PHE	1
1	A	101	LEU	1
1	A	111	ASP	1
1	A	151	ASP	1
1	A	128	LYS	1
1	A	45	ARG	1
1	A	86	LYS	1

6.3.3 RNA

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates

There are no oligosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 88% for the well-defined parts and 84% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list*

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	2071
Number of shifts mapped to atoms	2071
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	164	-0.15 ± 0.08	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	152	0.01 ± 0.06	None needed (< 0.5 ppm)
$^{13}C'$	156	-0.33 ± 0.10	None needed (< 0.5 ppm)
^{15}N	150	-0.14 ± 0.24	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 88%, i.e. 1773 atoms were assigned a chemical shift out of a possible 2006. 0 out of 21 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	675/684 (99%)	275/277 (99%)	273/278 (98%)	127/129 (98%)
Sidechain	987/1158 (85%)	665/743 (90%)	311/355 (88%)	11/60 (18%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	111/164 (68%)	68/80 (85%)	42/79 (53%)	1/5 (20%)
Overall	1773/2006 (88%)	1008/1100 (92%)	626/712 (88%)	139/194 (72%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 84%, i.e. 2071 atoms were assigned a chemical shift out of a possible 2457. 0 out of 25 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	794/848 (94%)	324/343 (94%)	320/344 (93%)	150/161 (93%)
Sidechain	1164/1389 (84%)	784/894 (88%)	366/425 (86%)	14/70 (20%)
Aromatic	113/220 (51%)	69/108 (64%)	43/93 (46%)	1/19 (5%)
Overall	2071/2457 (84%)	1177/1345 (88%)	729/862 (85%)	165/250 (66%)

7.1.4 Statistically unusual chemical shifts (i)

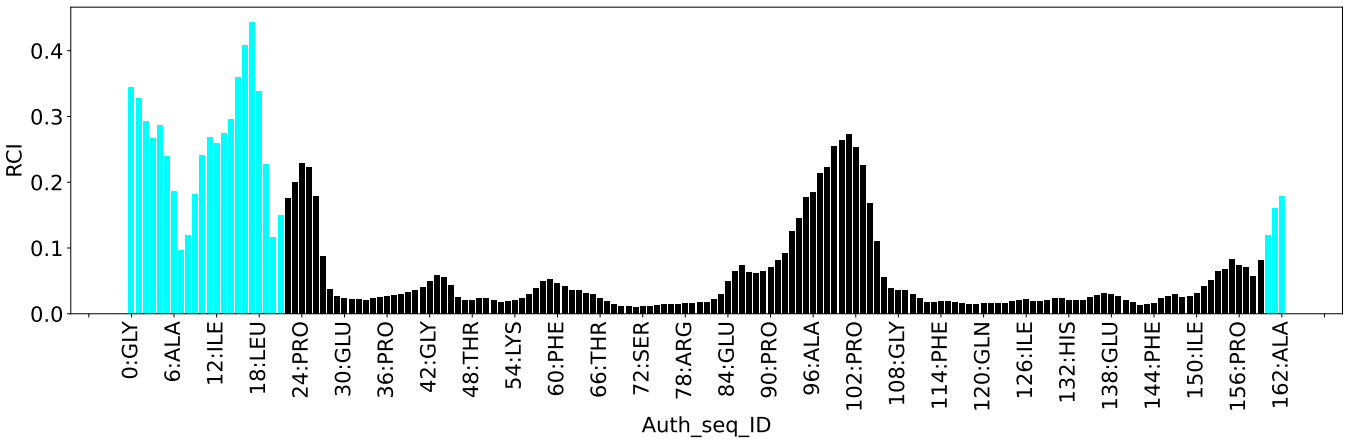
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, *ppm*	Expected range, *ppm*	Z-score
1	A	80	GLU	HG2	1.10	1.24 – 3.30	-5.7
1	A	123	GLU	CB	38.45	21.56 – 38.37	5.0

7.1.5 Random Coil Index (RCI) plots (i)

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

Random coil index (RCI) for chain A:


RCI
0.0
0.1
0.2
0.3
0.4
0:GLY
6:ALA
12:ILE
18:LEU
24:PRO
30:GLU
36:PRO
42:GLY
48:THR
54:LYS
60:PHE
66:THR
72:SER
78:ARG
84:GLU
90:PRO
96:ALA
102:PRO
108:GLY
114:PHE
120:GLN
126:ILE
132:HIS
138:GLU
144:PHE
150:ILE
156:PRO
162:ALA
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	5029
Intra-residue (|i-j|=0)	1826
Sequential (|i-j|=1)	1297
Medium range (|i-j|>1 and |i-j|<5)	716
Long range (|i-j|≥5)	1146
Inter-chain	0
Hydrogen bond restraints	44
Disulfide bond restraints	0
Total dihedral-angle restraints	180
Number of unmapped restraints	0
Number of restraints per residue	30.3
Number of long range restraints per residue[1]	6.8

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	172.2	0.2
0.2-0.5 (Medium)	367.4	0.5
>0.5 (Large)	359.9	3.92

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)	9.8	4.93
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis (i)

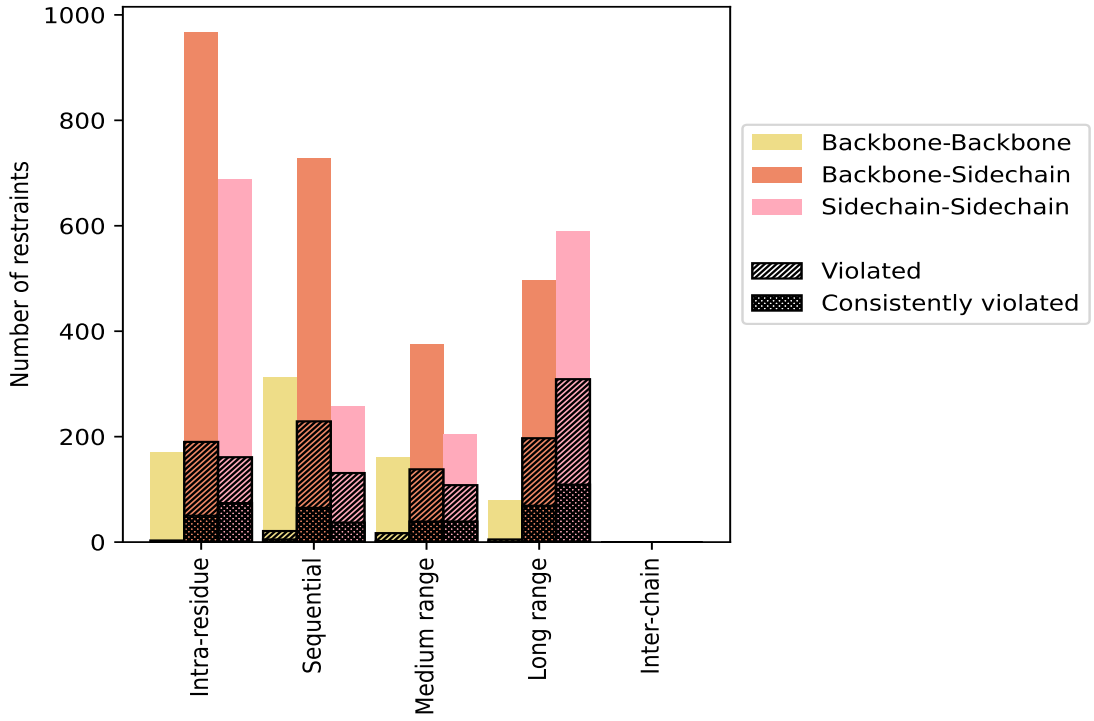
9.1 Summary of distance violations (i)

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)	1826	36.3	354	19.4	7.0	124	6.8	2.5
Backbone-Backbone	171	3.4	3	1.8	0.1	0	0.0	0.0
Backbone-Sidechain	967	19.2	190	19.6	3.8	50	5.2	1.0
Sidechain-Sidechain	688	13.7	161	23.4	3.2	74	10.8	1.5
Sequential (|i-j|=1)	1297	25.8	381	29.4	7.6	107	8.2	2.1
Backbone-Backbone	313	6.2	21	6.7	0.4	5	1.6	0.1
Backbone-Sidechain	727	14.5	229	31.5	4.6	65	8.9	1.3
Sidechain-Sidechain	257	5.1	131	51.0	2.6	37	14.4	0.7
Medium range (|i-j|>1 & |i-j|<5)	716	14.2	261	36.5	5.2	80	11.2	1.6
Backbone-Backbone	160	3.2	17	10.6	0.3	2	1.2	0.0
Backbone-Sidechain	351	7.0	136	38.7	2.7	39	11.1	0.8
Sidechain-Sidechain	205	4.1	108	52.7	2.1	39	19.0	0.8
Long range (|i-j|≥5)	1146	22.8	510	44.5	10.1	179	15.6	3.6
Backbone-Backbone	79	1.6	5	6.3	0.1	1	1.3	0.0
Backbone-Sidechain	477	9.5	196	41.1	3.9	69	14.5	1.4
Sidechain-Sidechain	590	11.7	309	52.4	6.1	109	18.5	2.2
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	44	0.9	3	6.8	0.1	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	5029	100.0	1509	30.0	30.0	490	9.7	9.7
Backbone-Backbone	723	14.4	46	6.4	0.9	8	1.1	0.2
Backbone-Sidechain	2566	51.0	754	29.4	15.0	223	8.7	4.4
Sidechain-Sidechain	1740	34.6	709	40.7	14.1	259	14.9	5.2

[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	217	212	164	309	0	902	0.5	2.53	0.37	0.39
2	209	210	155	324	0	898	0.51	2.41	0.37	0.39
3	213	229	150	326	0	918	0.52	2.51	0.38	0.41
4	214	216	159	310	0	899	0.51	2.29	0.38	0.41
5	207	217	166	329	0	919	0.52	2.64	0.39	0.4
6	215	226	163	304	0	908	0.53	3.92	0.42	0.4
7	211	227	152	323	0	913	0.54	3.35	0.42	0.42
8	212	220	148	318	0	898	0.52	2.53	0.39	0.4
9	223	213	165	325	0	926	0.51	2.71	0.38	0.4
10	211	222	159	315	0	907	0.52	2.23	0.39	0.39

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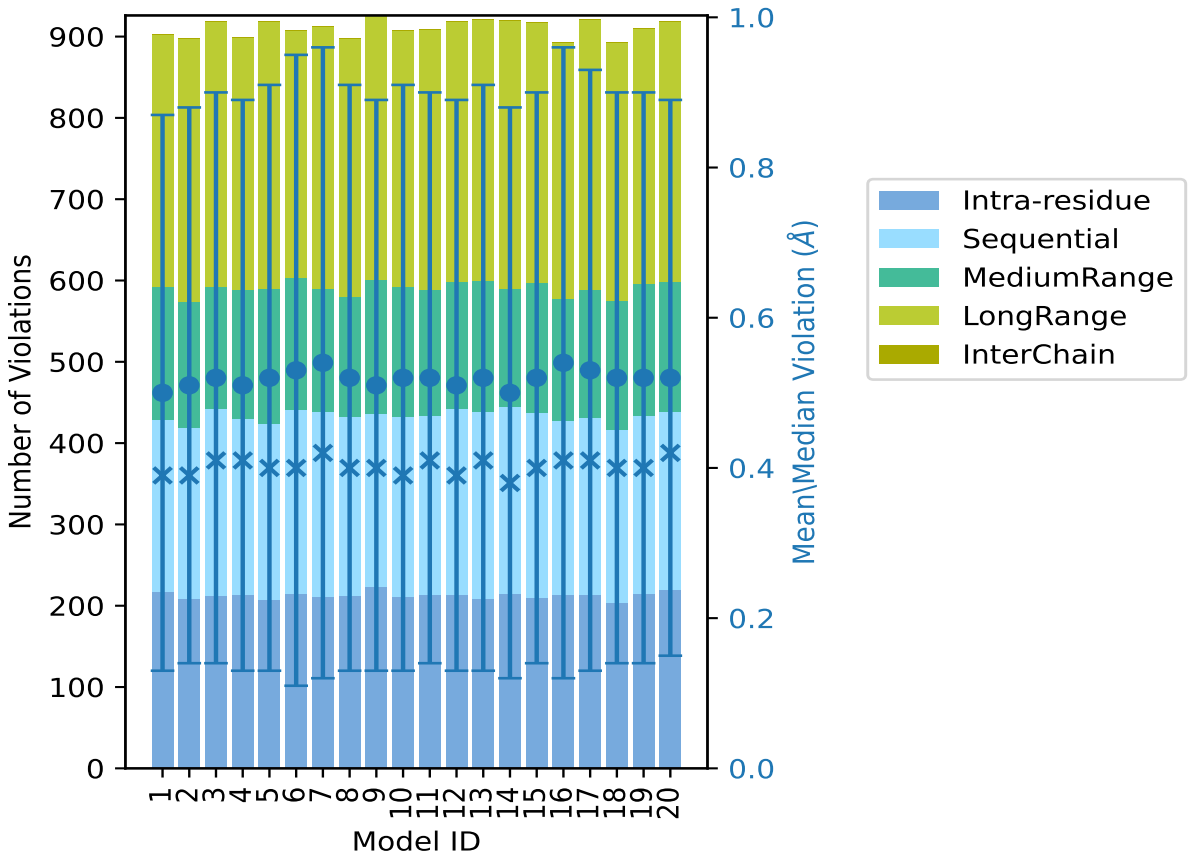
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
11	213	221	154	321	0	909	0.52	2.52	0.38	0.41
12	214	228	157	320	0	919	0.51	2.39	0.38	0.39
13	209	229	161	322	0	921	0.52	2.68	0.39	0.41
14	215	229	146	330	0	920	0.5	2.62	0.38	0.38
15	210	227	160	320	0	917	0.52	2.5	0.38	0.4
16	214	213	150	316	0	893	0.54	3.24	0.42	0.41
17	214	217	157	333	0	921	0.53	2.5	0.4	0.41
18	204	213	158	318	0	893	0.52	2.42	0.38	0.4
19	214	220	162	314	0	910	0.52	2.24	0.38	0.4
20	220	219	160	319	0	918	0.52	2.14	0.37	0.42

[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

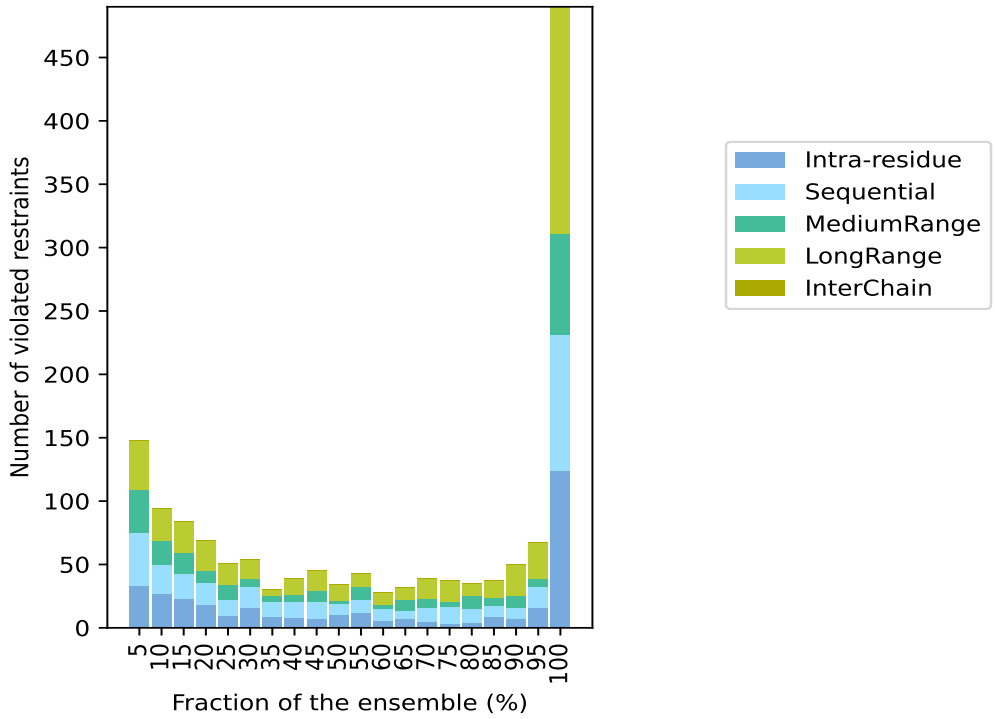
9.3 Distance violation statistics for the ensemble (i)

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, 3479(IR:1472, SQ:916, MR:455, LR:636, 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]	%
33	42	34	39	0	148	1	5.0
27	23	19	25	0	94	2	10.0
23	20	16	25	0	84	3	15.0
18	18	9	24	0	69	4	20.0
10	12	12	17	0	51	5	25.0
16	16	7	15	0	54	6	30.0
9	12	4	5	0	30	7	35.0
8	13	5	13	0	39	8	40.0
7	14	8	16	0	45	9	45.0
10	9	2	13	0	34	10	50.0
12	10	10	11	0	43	11	55.0
6	9	3	10	0	28	12	60.0
7	7	8	10	0	32	13	65.0
5	11	7	16	0	39	14	70.0
3	14	4	16	0	37	15	75.0
4	11	10	10	0	35	16	80.0
9	8	7	13	0	37	17	85.0
7	9	9	25	0	50	18	90.0
16	16	7	28	0	67	19	95.0
124	107	80	179	0	490	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

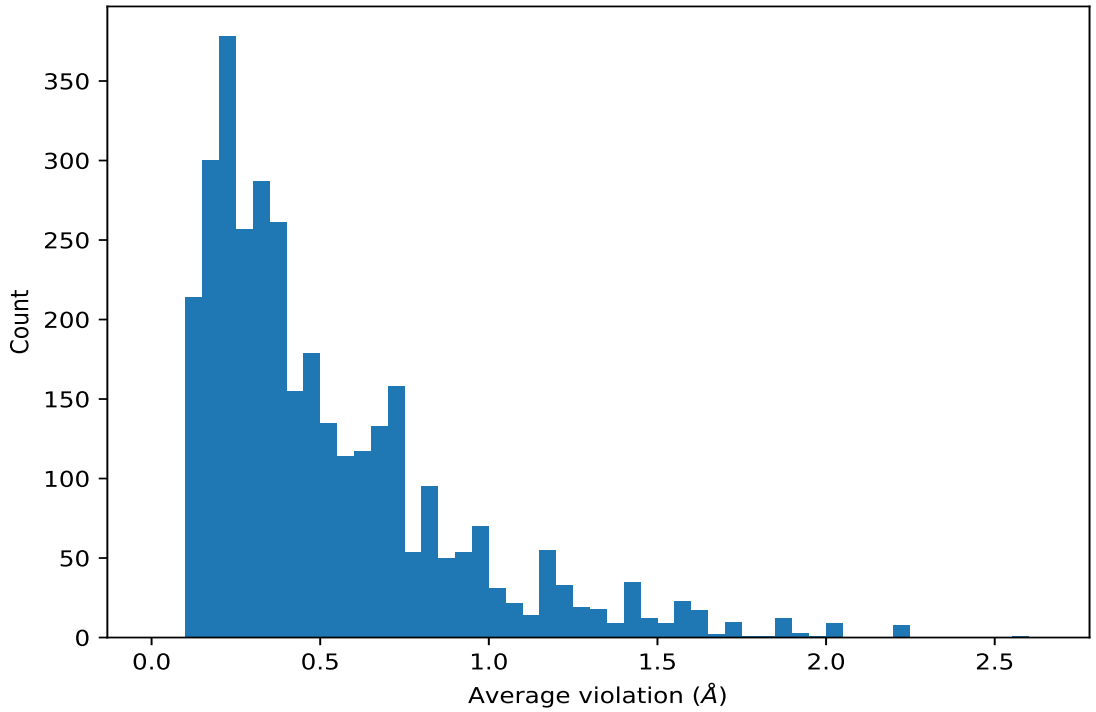
9.3.1 Bar graph : Distance violation statistics for the ensemble



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)
(2,4370)	1:62:A:LEU:HD22	1:141:A:LEU:HB3	20	2.22	0.25	2.26
(2,4370)	1:62:A:LEU:HD12	1:141:A:LEU:HB3	20	2.22	0.25	2.26
(2,4370)	1:62:A:LEU:HD23	1:141:A:LEU:HB3	20	2.22	0.25	2.26
(2,4370)	1:62:A:LEU:HD13	1:141:A:LEU:HB3	20	2.22	0.25	2.26
(2,4370)	1:62:A:LEU:HD11	1:148:A:GLU:HB2	20	2.22	0.25	2.26
(2,4370)	1:62:A:LEU:HD21	1:141:A:LEU:HB3	20	2.22	0.25	2.26
(2,4370)	1:62:A:LEU:HD11	1:141:A:LEU:HB3	20	2.22	0.25	2.26
(2,4370)	1:62:A:LEU:HD12	1:148:A:GLU:HB2	20	2.22	0.25	2.26
(2,3769)	1:53:A:VAL:HG21	1:57:A:LEU:HD22	20	2.0	0.08	2.0
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD21	20	2.0	0.08	2.0
(2,3769)	1:53:A:VAL:HG23	1:57:A:LEU:HD21	20	2.0	0.08	2.0
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD23	20	2.0	0.08	2.0
(2,3769)	1:53:A:VAL:HG21	1:57:A:LEU:HD21	20	2.0	0.08	2.0
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD22	20	2.0	0.08	2.0
(2,3769)	1:53:A:VAL:HG23	1:57:A:LEU:HD22	20	2.0	0.08	2.0
(2,3769)	1:53:A:VAL:HG23	1:57:A:LEU:HD23	20	2.0	0.08	2.0

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3769)	1:53:A:VAL:HG21	1:57:A:LEU:HD23	20	2.0	0.08	2.0
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	20	1.97	0.03	1.96
(2,1389)	1:41:A:VAL:HG21	1:44:A:GLY:HA2	20	1.88	0.1	1.91
(2,1389)	1:41:A:VAL:HG23	1:44:A:GLY:HA2	20	1.88	0.1	1.91
(2,1389)	1:41:A:VAL:HG22	1:44:A:GLY:HA2	20	1.88	0.1	1.91
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD12	20	1.85	0.33	1.82
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD13	20	1.85	0.33	1.82
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD21	20	1.85	0.33	1.82
(2,4522)	1:160:A:ARG:HD3	1:57:A:LEU:HD22	20	1.85	0.33	1.82
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD12	20	1.85	0.33	1.82
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD22	20	1.85	0.33	1.82
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD11	20	1.85	0.33	1.82
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD13	20	1.85	0.33	1.82
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD23	20	1.85	0.33	1.82
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	20	1.8	0.33	1.76
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD12	20	1.74	0.2	1.69
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD11	20	1.74	0.2	1.69
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD13	20	1.74	0.2	1.69
(2,4011)	1:139:A:ARG:HB2	1:141:A:LEU:HD13	20	1.74	0.2	1.69
(2,4011)	1:139:A:ARG:HB2	1:59:A:ILE:HD13	20	1.74	0.2	1.69
(2,4011)	1:139:A:ARG:HB2	1:59:A:ILE:HD11	20	1.74	0.2	1.69
(2,4011)	1:139:A:ARG:HB2	1:141:A:LEU:HD11	20	1.74	0.2	1.69
(2,4146)	1:64:A:GLU:HG3	1:54:A:LYS:HG2	20	1.74	0.11	1.72
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	20	1.74	0.11	1.72
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	20	1.7	0.67	1.27
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE1	20	1.64	0.38	1.7
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE2	20	1.64	0.38	1.7
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE3	20	1.64	0.38	1.7
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG23	20	1.63	0.17	1.58
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG21	20	1.63	0.17	1.58
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG22	20	1.63	0.17	1.58
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG23	20	1.62	0.07	1.63
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG21	20	1.62	0.07	1.63
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG22	20	1.62	0.07	1.63
(2,1295)	1:51:A:ILE:HD13	1:122:A:LEU:HB2	20	1.62	0.53	1.93
(2,1295)	1:51:A:ILE:HD12	1:122:A:LEU:HB2	20	1.62	0.53	1.93
(2,1295)	1:51:A:ILE:HD11	1:122:A:LEU:HB2	20	1.62	0.53	1.93
(2,1502)	1:57:A:LEU:HD22	1:29:A:LEU:HB3	20	1.6	0.03	1.61
(2,1502)	1:57:A:LEU:HD21	1:29:A:LEU:HB3	20	1.6	0.03	1.61
(2,1502)	1:57:A:LEU:HD23	1:29:A:LEU:HB3	20	1.6	0.03	1.61
(2,4056)	1:29:A:LEU:HD21	1:129:A:VAL:HG22	20	1.56	0.2	1.62
(2,4056)	1:29:A:LEU:HD21	1:129:A:VAL:HG23	20	1.56	0.2	1.62

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4056)	1:29:A:LEU:HD22	1:129:A:VAL:HG21	20	1.56	0.2	1.62
(2,4056)	1:29:A:LEU:HD23	1:129:A:VAL:HG21	20	1.56	0.2	1.62
(2,4056)	1:29:A:LEU:HD22	1:129:A:VAL:HG23	20	1.56	0.2	1.62
(2,4056)	1:29:A:LEU:HD23	1:129:A:VAL:HG22	20	1.56	0.2	1.62
(2,4056)	1:29:A:LEU:HD22	1:129:A:VAL:HG22	20	1.56	0.2	1.62
(2,4056)	1:29:A:LEU:HD21	1:129:A:VAL:HG21	20	1.56	0.2	1.62
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HD13	20	1.56	0.27	1.63
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HG23	20	1.56	0.27	1.63
(2,3695)	1:150:A:ILE:HG22	1:149:A:ILE:HG23	20	1.56	0.27	1.63
(2,3695)	1:150:A:ILE:HG22	1:149:A:ILE:HG21	20	1.56	0.27	1.63
(2,3695)	1:150:A:ILE:HG22	1:149:A:ILE:HG22	20	1.56	0.27	1.63
(2,3695)	1:150:A:ILE:HG21	1:149:A:ILE:HG21	20	1.56	0.27	1.63
(2,3695)	1:150:A:ILE:HG21	1:149:A:ILE:HG23	20	1.56	0.27	1.63
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HG21	20	1.56	0.27	1.63
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HG22	20	1.56	0.27	1.63
(2,3695)	1:150:A:ILE:HG21	1:149:A:ILE:HG22	20	1.56	0.27	1.63
(2,3767)	1:53:A:VAL:HG23	1:57:A:LEU:HB2	20	1.55	0.11	1.57
(2,3767)	1:53:A:VAL:HG22	1:31:A:ILE:HB	20	1.55	0.11	1.57
(2,3767)	1:53:A:VAL:HG22	1:57:A:LEU:HB2	20	1.55	0.11	1.57
(2,3767)	1:53:A:VAL:HG21	1:31:A:ILE:HB	20	1.55	0.11	1.57
(2,3767)	1:53:A:VAL:HG21	1:57:A:LEU:HB2	20	1.55	0.11	1.57
(2,4086)	1:51:A:ILE:HD13	1:73:A:ASP:HB3	20	1.53	0.3	1.44
(2,4086)	1:51:A:ILE:HD12	1:73:A:ASP:HB3	20	1.53	0.3	1.44
(2,4086)	1:51:A:ILE:HD11	1:73:A:ASP:HB3	20	1.53	0.3	1.44
(2,4086)	1:51:A:ILE:HD11	1:144:A:PHE:HB3	20	1.53	0.3	1.44
(2,4180)	1:141:A:LEU:HD12	1:154:A:TYR:HE2	20	1.51	0.27	1.52
(2,4180)	1:141:A:LEU:HD13	1:154:A:TYR:HE2	20	1.51	0.27	1.52
(2,4180)	1:141:A:LEU:HD11	1:154:A:TYR:HE2	20	1.51	0.27	1.52
(2,4180)	1:141:A:LEU:HD12	1:144:A:PHE:HZ	20	1.51	0.27	1.52
(2,4180)	1:141:A:LEU:HD13	1:144:A:PHE:HZ	20	1.51	0.27	1.52
(2,4331)	1:141:A:LEU:HD11	1:81:A:LEU:HB2	20	1.48	0.08	1.46
(2,4331)	1:141:A:LEU:HD13	1:81:A:LEU:HB2	20	1.48	0.08	1.46
(2,4331)	1:141:A:LEU:HD12	1:81:A:LEU:HB2	20	1.48	0.08	1.46
(2,1501)	1:57:A:LEU:HD21	1:136:A:GLN:HB2	20	1.47	0.09	1.48
(2,1501)	1:57:A:LEU:HD23	1:136:A:GLN:HB2	20	1.47	0.09	1.48
(2,1501)	1:57:A:LEU:HD22	1:136:A:GLN:HB2	20	1.47	0.09	1.48
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	20	1.47	0.23	1.52
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD2	20	1.47	0.23	1.52
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD11	20	1.46	0.12	1.5
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD12	20	1.46	0.12	1.5
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD13	20	1.46	0.12	1.5
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	20	1.44	0.02	1.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE1	20	1.43	0.51	1.63
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE2	20	1.43	0.51	1.63
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE3	20	1.43	0.51	1.63
(2,4530)	1:33:A:VAL:HG11	1:144:A:PHE:HD1	20	1.42	0.25	1.44
(2,4530)	1:33:A:VAL:HG12	1:144:A:PHE:HD1	20	1.42	0.25	1.44
(2,4530)	1:33:A:VAL:HG11	1:49:A:TYR:HD2	20	1.42	0.25	1.44
(2,4530)	1:33:A:VAL:HG13	1:49:A:TYR:HD2	20	1.42	0.25	1.44
(2,4530)	1:33:A:VAL:HG12	1:144:A:PHE:HD2	20	1.42	0.25	1.44
(2,4530)	1:33:A:VAL:HG13	1:144:A:PHE:HD1	20	1.42	0.25	1.44
(2,4530)	1:33:A:VAL:HG13	1:144:A:PHE:HD2	20	1.42	0.25	1.44
(2,4530)	1:33:A:VAL:HG11	1:144:A:PHE:HD2	20	1.42	0.25	1.44
(2,4530)	1:33:A:VAL:HG13	1:49:A:TYR:HD1	20	1.42	0.25	1.44
(2,4530)	1:33:A:VAL:HG11	1:49:A:TYR:HD1	20	1.42	0.25	1.44
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	20	1.42	0.11	1.45
(2,4467)	1:76:A:TRP:HA	1:80:A:GLU:HB3	20	1.42	0.11	1.45
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	20	1.42	0.08	1.39
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG21	20	1.41	0.14	1.42
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG22	20	1.41	0.14	1.42
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG23	20	1.41	0.14	1.42
(2,4185)	1:77:A:LEU:HD22	1:138:A:GLU:H	20	1.4	0.15	1.44
(2,4185)	1:77:A:LEU:HD21	1:138:A:GLU:H	20	1.4	0.15	1.44
(2,4185)	1:77:A:LEU:HD23	1:138:A:GLU:H	20	1.4	0.15	1.44
(2,4185)	1:77:A:LEU:HD22	1:128:A:LYS:H	20	1.4	0.15	1.44
(2,4185)	1:77:A:LEU:HD23	1:128:A:LYS:H	20	1.4	0.15	1.44
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	20	1.38	0.04	1.39
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	20	1.36	0.11	1.35
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	20	1.36	0.14	1.35
(2,1323)	1:150:A:ILE:HG23	1:149:A:ILE:HG22	20	1.32	0.28	1.38
(2,1323)	1:150:A:ILE:HG23	1:149:A:ILE:HG23	20	1.32	0.28	1.38
(2,1323)	1:150:A:ILE:HG22	1:149:A:ILE:HG23	20	1.32	0.28	1.38
(2,1323)	1:150:A:ILE:HG22	1:149:A:ILE:HG21	20	1.32	0.28	1.38
(2,1323)	1:150:A:ILE:HG22	1:149:A:ILE:HG22	20	1.32	0.28	1.38
(2,1323)	1:150:A:ILE:HG21	1:149:A:ILE:HG21	20	1.32	0.28	1.38
(2,1323)	1:150:A:ILE:HG21	1:149:A:ILE:HG23	20	1.32	0.28	1.38
(2,1323)	1:150:A:ILE:HG23	1:149:A:ILE:HG21	20	1.32	0.28	1.38
(2,1323)	1:150:A:ILE:HG21	1:149:A:ILE:HG22	20	1.32	0.28	1.38
(2,4153)	1:57:A:LEU:HD23	1:24:A:PRO:HB2	20	1.32	0.15	1.32
(2,4153)	1:57:A:LEU:HD22	1:24:A:PRO:HB2	20	1.32	0.15	1.32
(2,4153)	1:57:A:LEU:HD21	1:24:A:PRO:HB2	20	1.32	0.15	1.32
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	20	1.29	0.01	1.29
(2,1867)	1:98:A:LEU:HD12	1:97:A:PHE:HB3	20	1.27	0.11	1.27
(2,1867)	1:98:A:LEU:HD11	1:97:A:PHE:HB3	20	1.27	0.11	1.27

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1867)	1:98:A:LEU:HD13	1:97:A:PHE:HB3	20	1.27	0.11	1.27
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD13	20	1.27	0.29	1.25
(2,3786)	1:143:A:MET:HE3	1:149:A:ILE:HG23	20	1.27	0.29	1.25
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD11	20	1.27	0.29	1.25
(2,3786)	1:143:A:MET:HE1	1:149:A:ILE:HG22	20	1.27	0.29	1.25
(2,3786)	1:143:A:MET:HE3	1:149:A:ILE:HD11	20	1.27	0.29	1.25
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HG21	20	1.27	0.29	1.25
(2,3786)	1:143:A:MET:HE3	1:149:A:ILE:HG22	20	1.27	0.29	1.25
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD12	20	1.27	0.29	1.25
(2,3786)	1:143:A:MET:HE3	1:141:A:LEU:HD11	20	1.27	0.29	1.25
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	20	1.24	0.02	1.24
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	20	1.23	0.14	1.21
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	20	1.22	0.04	1.22
(2,3961)	1:109:A:ILE:HD12	1:108:A:GLY:HA2	20	1.21	0.13	1.25
(2,3961)	1:109:A:ILE:HD13	1:108:A:GLY:HA2	20	1.21	0.13	1.25
(2,3961)	1:109:A:ILE:HD12	1:108:A:GLY:HA3	20	1.21	0.13	1.25
(2,3961)	1:109:A:ILE:HD13	1:108:A:GLY:HA3	20	1.21	0.13	1.25
(2,3961)	1:109:A:ILE:HD11	1:108:A:GLY:HA2	20	1.21	0.13	1.25
(2,3961)	1:109:A:ILE:HD11	1:108:A:GLY:HA3	20	1.21	0.13	1.25
(2,3961)	1:109:A:ILE:HD13	1:115:A:ILE:HA	20	1.21	0.13	1.25
(2,4334)	1:141:A:LEU:HD23	1:29:A:LEU:HD12	20	1.21	0.17	1.22
(2,4334)	1:141:A:LEU:HD22	1:29:A:LEU:HD12	20	1.21	0.17	1.22
(2,4334)	1:141:A:LEU:HD22	1:29:A:LEU:HD13	20	1.21	0.17	1.22
(2,4334)	1:129:A:VAL:HG11	1:141:A:LEU:HD21	20	1.21	0.17	1.22
(2,4334)	1:141:A:LEU:HD21	1:29:A:LEU:HD11	20	1.21	0.17	1.22
(2,4334)	1:141:A:LEU:HD23	1:29:A:LEU:HD11	20	1.21	0.17	1.22
(2,4334)	1:141:A:LEU:HD23	1:29:A:LEU:HD13	20	1.21	0.17	1.22
(2,4334)	1:141:A:LEU:HD21	1:29:A:LEU:HD12	20	1.21	0.17	1.22
(2,4334)	1:141:A:LEU:HD21	1:29:A:LEU:HD13	20	1.21	0.17	1.22
(2,4334)	1:129:A:VAL:HG13	1:141:A:LEU:HD21	20	1.21	0.17	1.22
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG22	20	1.2	0.14	1.23
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG23	20	1.2	0.14	1.23
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG21	20	1.2	0.14	1.23
(2,3922)	1:119:A:LYS:HE2	1:33:A:VAL:HG22	20	1.2	0.14	1.23
(2,3922)	1:119:A:LYS:HE2	1:33:A:VAL:HG23	20	1.2	0.14	1.23
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD12	20	1.2	0.26	1.33
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD11	20	1.2	0.26	1.33
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD13	20	1.2	0.26	1.33
(2,4586)	1:100:A:GLN:HG3	1:98:A:LEU:HD13	20	1.2	0.26	1.33
(2,4586)	1:100:A:GLN:HG3	1:98:A:LEU:HD12	20	1.2	0.26	1.33
(2,4586)	1:100:A:GLN:HG3	1:98:A:LEU:HD11	20	1.2	0.26	1.33
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	20	1.2	0.04	1.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	20	1.19	0.16	1.2
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE2	20	1.19	0.16	1.2
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD21	20	1.19	0.09	1.21
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD23	20	1.19	0.09	1.21
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD22	20	1.19	0.09	1.21
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG23	20	1.19	0.12	1.21
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG21	20	1.19	0.12	1.21
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG22	20	1.19	0.12	1.21
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD12	20	1.18	0.08	1.18
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD11	20	1.18	0.08	1.18
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD13	20	1.18	0.08	1.18
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	20	1.17	0.13	1.14
(2,4238)	1:31:A:ILE:HG23	1:123:A:GLU:HB3	20	1.16	0.16	1.19
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	20	1.16	0.16	1.19
(2,4238)	1:31:A:ILE:HG21	1:123:A:GLU:HB3	20	1.16	0.16	1.19
(2,4330)	1:141:A:LEU:HD23	1:59:A:ILE:HG22	20	1.16	0.15	1.2
(2,4330)	1:141:A:LEU:HD23	1:81:A:LEU:HD21	20	1.16	0.15	1.2
(2,4330)	1:141:A:LEU:HD22	1:59:A:ILE:HG23	20	1.16	0.15	1.2
(2,4330)	1:141:A:LEU:HD23	1:81:A:LEU:HD22	20	1.16	0.15	1.2
(2,4330)	1:141:A:LEU:HD21	1:59:A:ILE:HG21	20	1.16	0.15	1.2
(2,4330)	1:141:A:LEU:HD21	1:81:A:LEU:HD21	20	1.16	0.15	1.2
(2,4330)	1:141:A:LEU:HD21	1:59:A:ILE:HG23	20	1.16	0.15	1.2
(2,4330)	1:141:A:LEU:HD22	1:81:A:LEU:HD22	20	1.16	0.15	1.2
(2,4330)	1:141:A:LEU:HD22	1:59:A:ILE:HG21	20	1.16	0.15	1.2
(2,4330)	1:141:A:LEU:HD21	1:59:A:ILE:HG22	20	1.16	0.15	1.2
(2,4330)	1:141:A:LEU:HD23	1:59:A:ILE:HG23	20	1.16	0.15	1.2
(2,4453)	1:31:A:ILE:HG22	1:52:A:ARG:HB3	20	1.16	0.13	1.14
(2,4453)	1:52:A:ARG:HB3	1:51:A:ILE:HG23	20	1.16	0.13	1.14
(2,4453)	1:31:A:ILE:HG23	1:52:A:ARG:HB3	20	1.16	0.13	1.14
(2,4453)	1:31:A:ILE:HG21	1:52:A:ARG:HB3	20	1.16	0.13	1.14
(2,4453)	1:52:A:ARG:HB3	1:51:A:ILE:HG22	20	1.16	0.13	1.14
(2,4453)	1:52:A:ARG:HB3	1:51:A:ILE:HG21	20	1.16	0.13	1.14
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG22	20	1.15	0.09	1.17
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG23	20	1.15	0.09	1.17
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG21	20	1.15	0.09	1.17
(2,4241)	1:53:A:VAL:HG23	1:31:A:ILE:HG22	20	1.15	0.16	1.13
(2,4241)	1:53:A:VAL:HG22	1:31:A:ILE:HG21	20	1.15	0.16	1.13
(2,4241)	1:53:A:VAL:HG22	1:31:A:ILE:HG23	20	1.15	0.16	1.13
(2,4241)	1:53:A:VAL:HG23	1:31:A:ILE:HG21	20	1.15	0.16	1.13
(2,4241)	1:53:A:VAL:HG21	1:31:A:ILE:HG23	20	1.15	0.16	1.13
(2,4241)	1:53:A:VAL:HG21	1:31:A:ILE:HG21	20	1.15	0.16	1.13
(2,4241)	1:53:A:VAL:HG21	1:31:A:ILE:HG22	20	1.15	0.16	1.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	20	1.14	0.03	1.15
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	20	1.14	0.05	1.12
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG12	20	1.13	0.19	1.24
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG13	20	1.13	0.19	1.24
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG11	20	1.13	0.19	1.24
(2,3761)	1:53:A:VAL:HG21	1:28:A:PHE:HZ	20	1.1	0.09	1.12
(2,3761)	1:53:A:VAL:HG22	1:28:A:PHE:HZ	20	1.1	0.09	1.12
(2,3761)	1:53:A:VAL:HG23	1:28:A:PHE:HZ	20	1.1	0.09	1.12
(2,3941)	1:115:A:ILE:HD12	1:114:A:PHE:HB2	20	1.09	0.07	1.1
(2,3941)	1:115:A:ILE:HD11	1:114:A:PHE:HB2	20	1.09	0.07	1.1
(2,3941)	1:115:A:ILE:HD13	1:114:A:PHE:HB2	20	1.09	0.07	1.1
(2,4527)	1:98:A:LEU:HD21	1:100:A:GLN:HG2	20	1.09	0.14	1.12
(2,4527)	1:98:A:LEU:HD23	1:100:A:GLN:HG2	20	1.09	0.14	1.12
(2,4527)	1:98:A:LEU:HD22	1:100:A:GLN:HG2	20	1.09	0.14	1.12
(2,4049)	1:29:A:LEU:HD11	1:54:A:LYS:HB3	20	1.07	0.07	1.1
(2,4049)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	20	1.07	0.07	1.1
(2,4049)	1:29:A:LEU:HD12	1:54:A:LYS:HB3	20	1.07	0.07	1.1
(2,4049)	1:29:A:LEU:HD13	1:54:A:LYS:HB3	20	1.07	0.07	1.1
(2,4049)	1:29:A:LEU:HD12	1:30:A:GLU:HB3	20	1.07	0.07	1.1
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	20	1.07	0.38	1.17
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	20	1.06	0.54	1.35
(2,1345)	1:59:A:ILE:HG22	1:59:A:ILE:HG13	20	1.05	0.01	1.05
(2,1345)	1:59:A:ILE:HG21	1:59:A:ILE:HG13	20	1.05	0.01	1.05
(2,1345)	1:59:A:ILE:HG23	1:59:A:ILE:HG13	20	1.05	0.01	1.05
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD13	20	1.04	0.33	1.06
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD12	20	1.04	0.33	1.06
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD11	20	1.04	0.33	1.06
(2,4128)	1:77:A:LEU:HB3	1:150:A:ILE:HD12	20	1.04	0.33	1.06
(2,4128)	1:77:A:LEU:HB3	1:150:A:ILE:HD13	20	1.04	0.33	1.06
(2,4128)	1:77:A:LEU:HB3	1:150:A:ILE:HD11	20	1.04	0.33	1.06
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	20	1.02	0.19	0.97
(2,4135)	1:137:A:ASN:HB3	1:158:A:LYS:HG3	20	1.02	0.19	0.97
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG21	20	1.02	0.13	0.99
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG22	20	1.02	0.13	0.99
(2,2348)	1:53:A:VAL:HG11	1:126:A:ILE:HG21	20	1.02	0.13	0.99
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG23	20	1.02	0.13	0.99
(2,2348)	1:53:A:VAL:HG13	1:126:A:ILE:HG21	20	1.02	0.13	0.99
(2,2348)	1:53:A:VAL:HG11	1:126:A:ILE:HG23	20	1.02	0.13	0.99
(2,2348)	1:53:A:VAL:HG13	1:126:A:ILE:HG22	20	1.02	0.13	0.99
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG23	20	1.0	0.04	1.01
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG22	20	1.0	0.04	1.01
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG21	20	1.0	0.04	1.01

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3796)	1:130:A:ALA:HB1	1:128:A:LYS:H	20	0.99	0.1	0.96
(2,3796)	1:130:A:ALA:HB2	1:128:A:LYS:H	20	0.99	0.1	0.96
(2,3796)	1:130:A:ALA:HB3	1:128:A:LYS:H	20	0.99	0.1	0.96
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	20	0.99	0.19	0.9
(2,4270)	1:97:A:PHE:HB3	1:114:A:PHE:H	20	0.99	0.19	0.9
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD21	20	0.98	0.09	1.0
(2,4608)	1:79:A:SER:H	1:81:A:LEU:HD13	20	0.98	0.09	1.0
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD23	20	0.98	0.09	1.0
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD22	20	0.98	0.09	1.0
(2,4608)	1:79:A:SER:H	1:81:A:LEU:HD12	20	0.98	0.09	1.0
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	20	0.98	0.08	0.96
(2,3706)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	20	0.98	0.24	1.01
(2,3706)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	20	0.98	0.24	1.01
(2,3706)	1:92:A:LEU:HD13	1:125:A:PHE:HE1	20	0.98	0.24	1.01
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD13	20	0.98	0.08	1.01
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD11	20	0.98	0.08	1.01
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD12	20	0.98	0.08	1.01
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	20	0.97	0.13	0.9
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD23	20	0.97	0.31	0.93
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD21	20	0.97	0.31	0.93
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD13	20	0.97	0.31	0.93
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD22	20	0.97	0.31	0.93
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD11	20	0.97	0.31	0.93
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD12	20	0.97	0.31	0.93
(2,159)	1:66:A:THR:HG21	1:67:A:VAL:HG21	20	0.97	0.06	0.98
(2,159)	1:66:A:THR:HG22	1:67:A:VAL:HG22	20	0.97	0.06	0.98
(2,159)	1:66:A:THR:HG21	1:67:A:VAL:HG22	20	0.97	0.06	0.98
(2,159)	1:66:A:THR:HG23	1:67:A:VAL:HG22	20	0.97	0.06	0.98
(2,159)	1:66:A:THR:HG22	1:67:A:VAL:HG21	20	0.97	0.06	0.98
(2,159)	1:66:A:THR:HG22	1:67:A:VAL:HG23	20	0.97	0.06	0.98
(2,159)	1:66:A:THR:HG21	1:67:A:VAL:HG23	20	0.97	0.06	0.98
(2,159)	1:66:A:THR:HG23	1:67:A:VAL:HG21	20	0.97	0.06	0.98
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	20	0.96	0.07	0.96
(2,3709)	1:92:A:LEU:HD11	1:79:A:SER:HB3	20	0.95	0.19	0.98
(2,3709)	1:92:A:LEU:HD12	1:74:A:PHE:HA	20	0.95	0.19	0.98
(2,3709)	1:92:A:LEU:HD11	1:74:A:PHE:HA	20	0.95	0.19	0.98
(2,3709)	1:92:A:LEU:HD12	1:79:A:SER:HB3	20	0.95	0.19	0.98
(2,3709)	1:92:A:LEU:HD13	1:79:A:SER:HB3	20	0.95	0.19	0.98
(2,3709)	1:92:A:LEU:HD13	1:74:A:PHE:HA	20	0.95	0.19	0.98
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG21	20	0.95	0.1	0.96
(2,1410)	1:48:A:THR:HG21	1:39:A:VAL:HG23	20	0.95	0.1	0.96
(2,1410)	1:48:A:THR:HG23	1:39:A:VAL:HG22	20	0.95	0.1	0.96

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG23	20	0.95	0.1	0.96
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG22	20	0.95	0.1	0.96
(2,1410)	1:48:A:THR:HG23	1:39:A:VAL:HG21	20	0.95	0.1	0.96
(2,1410)	1:48:A:THR:HG23	1:39:A:VAL:HG23	20	0.95	0.1	0.96
(2,1410)	1:48:A:THR:HG21	1:39:A:VAL:HG22	20	0.95	0.1	0.96
(2,3724)	1:89:A:VAL:HG13	1:128:A:LYS:H	20	0.95	0.06	0.96
(2,3724)	1:89:A:VAL:HG12	1:128:A:LYS:H	20	0.95	0.06	0.96
(2,3724)	1:89:A:VAL:HG11	1:128:A:LYS:H	20	0.95	0.06	0.96
(2,4059)	1:29:A:LEU:HD11	1:28:A:PHE:HD1	20	0.95	0.04	0.94
(2,4059)	1:29:A:LEU:HD12	1:28:A:PHE:HD1	20	0.95	0.04	0.94
(2,4059)	1:29:A:LEU:HD13	1:28:A:PHE:HD1	20	0.95	0.04	0.94
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG21	20	0.95	0.13	0.97
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG22	20	0.95	0.13	0.97
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG23	20	0.95	0.13	0.97
(2,3781)	1:122:A:LEU:HD12	1:125:A:PHE:H	20	0.94	0.09	0.92
(2,3781)	1:122:A:LEU:HD11	1:125:A:PHE:H	20	0.94	0.09	0.92
(2,3781)	1:122:A:LEU:HD12	1:74:A:PHE:H	20	0.94	0.09	0.92
(2,3781)	1:122:A:LEU:HD13	1:125:A:PHE:H	20	0.94	0.09	0.92
(2,3781)	1:122:A:LEU:HD13	1:74:A:PHE:H	20	0.94	0.09	0.92
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG21	20	0.94	0.02	0.94
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG22	20	0.94	0.02	0.94
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG23	20	0.94	0.02	0.94
(2,1136)	1:59:A:ILE:HD13	1:136:A:GLN:HB2	20	0.94	0.15	0.89
(2,1136)	1:59:A:ILE:HD11	1:136:A:GLN:HB2	20	0.94	0.15	0.89
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	20	0.94	0.15	0.89
(2,4091)	1:31:A:ILE:HD11	1:126:A:ILE:HA	20	0.93	0.12	0.94
(2,4091)	1:31:A:ILE:HD13	1:126:A:ILE:HA	20	0.93	0.12	0.94
(2,4091)	1:31:A:ILE:HD12	1:126:A:ILE:HA	20	0.93	0.12	0.94
(2,3803)	1:129:A:VAL:HG23	1:125:A:PHE:HD2	20	0.93	0.17	0.94
(2,3803)	1:129:A:VAL:HG21	1:125:A:PHE:HD2	20	0.93	0.17	0.94
(2,3803)	1:129:A:VAL:HG22	1:125:A:PHE:HD2	20	0.93	0.17	0.94
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG22	20	0.92	0.08	0.92
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG21	20	0.92	0.08	0.92
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG23	20	0.92	0.08	0.92
(2,470)	1:53:A:VAL:HG22	1:62:A:LEU:H	20	0.92	0.05	0.93
(2,470)	1:53:A:VAL:HG23	1:62:A:LEU:H	20	0.92	0.05	0.93
(2,470)	1:53:A:VAL:HG21	1:62:A:LEU:H	20	0.92	0.05	0.93
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	20	0.92	0.14	0.94
(2,4710)	1:60:A:PHE:H	1:58:A:PRO:HB3	20	0.92	0.14	0.94
(2,4111)	1:96:A:ALA:HB1	1:99:A:ARG:HD3	20	0.92	0.2	0.9
(2,4111)	1:96:A:ALA:HB3	1:99:A:ARG:HD2	20	0.92	0.2	0.9
(2,4111)	1:96:A:ALA:HB2	1:99:A:ARG:HD3	20	0.92	0.2	0.9

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4111)	1:96:A:ALA:HB1	1:99:A:ARG:HD2	20	0.92	0.2	0.9
(2,4111)	1:96:A:ALA:HB3	1:99:A:ARG:HD3	20	0.92	0.2	0.9
(2,4111)	1:96:A:ALA:HB2	1:99:A:ARG:HD2	20	0.92	0.2	0.9
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	20	0.91	0.29	0.92
(2,3991)	1:26:A:SER:HB2	1:57:A:LEU:HD21	20	0.91	0.29	0.92
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD21	20	0.91	0.29	0.92
(2,3991)	1:26:A:SER:HB2	1:57:A:LEU:HD23	20	0.91	0.29	0.92
(2,3991)	1:26:A:SER:HB2	1:57:A:LEU:HD22	20	0.91	0.29	0.92
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD22	20	0.91	0.29	0.92
(2,3758)	1:47:A:THR:HG21	1:36:A:PRO:HG2	20	0.91	0.13	0.93
(2,3758)	1:47:A:THR:HG23	1:36:A:PRO:HG2	20	0.91	0.13	0.93
(2,3758)	1:47:A:THR:HG22	1:36:A:PRO:HG2	20	0.91	0.13	0.93
(2,3758)	1:47:A:THR:HG22	1:37:A:GLN:HG3	20	0.91	0.13	0.93
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG21	20	0.91	0.03	0.92
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG23	20	0.91	0.03	0.92
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG22	20	0.91	0.03	0.92
(2,4088)	1:31:A:ILE:HD11	1:123:A:GLU:HB2	20	0.9	0.08	0.9
(2,4088)	1:31:A:ILE:HD13	1:123:A:GLU:HB2	20	0.9	0.08	0.9
(2,4088)	1:31:A:ILE:HD12	1:123:A:GLU:HB2	20	0.9	0.08	0.9
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	20	0.9	0.18	0.93
(2,4057)	1:29:A:LEU:HD23	1:27:A:ASN:HB3	20	0.89	0.18	0.88
(2,4057)	1:29:A:LEU:HD21	1:27:A:ASN:HB3	20	0.89	0.18	0.88
(2,4057)	1:29:A:LEU:HD22	1:27:A:ASN:HB3	20	0.89	0.18	0.88
(2,4057)	1:29:A:LEU:HD21	1:136:A:GLN:HG2	20	0.89	0.18	0.88
(2,4057)	1:29:A:LEU:HD23	1:136:A:GLN:HG2	20	0.89	0.18	0.88
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	20	0.89	0.11	0.92
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	20	0.89	0.05	0.88
(2,3774)	1:126:A:ILE:HG21	1:123:A:GLU:HB3	20	0.89	0.05	0.88
(2,3774)	1:126:A:ILE:HG22	1:123:A:GLU:HB3	20	0.89	0.05	0.88
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB3	20	0.88	0.08	0.9
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB1	20	0.88	0.08	0.9
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB2	20	0.88	0.08	0.9
(2,3776)	1:39:A:VAL:HG13	1:46:A:PHE:HZ	20	0.88	0.21	0.92
(2,3776)	1:39:A:VAL:HG12	1:46:A:PHE:HZ	20	0.88	0.21	0.92
(2,3776)	1:39:A:VAL:HG11	1:46:A:PHE:HZ	20	0.88	0.21	0.92
(2,1586)	1:141:A:LEU:HD13	1:144:A:PHE:HD2	20	0.88	0.08	0.88
(2,1586)	1:141:A:LEU:HD12	1:144:A:PHE:HD2	20	0.88	0.08	0.88
(2,1586)	1:141:A:LEU:HD11	1:144:A:PHE:HD2	20	0.88	0.08	0.88
(2,1586)	1:141:A:LEU:HD11	1:144:A:PHE:HD1	20	0.88	0.08	0.88
(2,1586)	1:141:A:LEU:HD12	1:144:A:PHE:HD1	20	0.88	0.08	0.88
(2,1586)	1:141:A:LEU:HD13	1:144:A:PHE:HD1	20	0.88	0.08	0.88
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD12	20	0.87	0.71	0.74

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD13	20	0.87	0.71	0.74
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD11	20	0.87	0.71	0.74
(2,4065)	1:81:A:LEU:HD13	1:135:A:ALA:H	20	0.87	0.12	0.9
(2,4065)	1:81:A:LEU:HD12	1:135:A:ALA:H	20	0.87	0.12	0.9
(2,4065)	1:81:A:LEU:HD11	1:135:A:ALA:H	20	0.87	0.12	0.9
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	20	0.87	0.32	0.8
(2,3640)	1:79:A:SER:HB3	1:82:A:GLU:HB2	20	0.87	0.32	0.8
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	20	0.86	0.07	0.88
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE2	20	0.86	0.07	0.88
(2,4081)	1:115:A:ILE:HD13	1:109:A:ILE:H	20	0.86	0.14	0.83
(2,4081)	1:115:A:ILE:HD12	1:109:A:ILE:H	20	0.86	0.14	0.83
(2,4081)	1:115:A:ILE:HD13	1:110:A:PHE:HE2	20	0.86	0.14	0.83
(2,4081)	1:115:A:ILE:HD11	1:109:A:ILE:H	20	0.86	0.14	0.83
(2,4081)	1:115:A:ILE:HD13	1:110:A:PHE:HE1	20	0.86	0.14	0.83
(2,4081)	1:115:A:ILE:HD11	1:110:A:PHE:HE2	20	0.86	0.14	0.83
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	20	0.85	0.04	0.85
(2,4051)	1:29:A:LEU:HD21	1:145:A:LEU:HG	20	0.85	0.22	0.9
(2,4051)	1:29:A:LEU:HD21	1:57:A:LEU:HB3	20	0.85	0.22	0.9
(2,4051)	1:29:A:LEU:HD23	1:145:A:LEU:HG	20	0.85	0.22	0.9
(2,4051)	1:29:A:LEU:HD22	1:53:A:VAL:HB	20	0.85	0.22	0.9
(2,4051)	1:29:A:LEU:HD22	1:145:A:LEU:HG	20	0.85	0.22	0.9
(2,4051)	1:29:A:LEU:HD23	1:53:A:VAL:HB	20	0.85	0.22	0.9
(2,4051)	1:29:A:LEU:HD21	1:53:A:VAL:HB	20	0.85	0.22	0.9
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	20	0.84	0.14	0.86
(2,4341)	1:144:A:PHE:HA	1:148:A:GLU:HA	20	0.84	0.14	0.86
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	20	0.84	0.02	0.84
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	20	0.84	0.27	0.84
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	20	0.84	0.17	0.9
(2,2337)	1:98:A:LEU:HD21	1:100:A:GLN:HB2	20	0.83	0.1	0.83
(2,2337)	1:98:A:LEU:HD23	1:100:A:GLN:HB2	20	0.83	0.1	0.83
(2,2337)	1:98:A:LEU:HD22	1:100:A:GLN:HB2	20	0.83	0.1	0.83
(2,1215)	1:29:A:LEU:HD21	1:30:A:GLU:H	20	0.83	0.04	0.83
(2,1215)	1:29:A:LEU:HD22	1:30:A:GLU:H	20	0.83	0.04	0.83
(2,1215)	1:29:A:LEU:HD23	1:30:A:GLU:H	20	0.83	0.04	0.83
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	20	0.83	0.04	0.84
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	20	0.83	0.04	0.82
(2,3780)	1:122:A:LEU:HD12	1:123:A:GLU:H	20	0.83	0.04	0.82
(2,3780)	1:122:A:LEU:HD11	1:123:A:GLU:H	20	0.83	0.04	0.82
(2,3780)	1:122:A:LEU:HD13	1:123:A:GLU:H	20	0.83	0.04	0.82
(2,4558)	1:33:A:VAL:HG13	1:127:A:ASN:HD21	20	0.83	0.1	0.8
(2,4558)	1:33:A:VAL:HG11	1:127:A:ASN:HD21	20	0.83	0.1	0.8
(2,4558)	1:33:A:VAL:HG12	1:127:A:ASN:HD21	20	0.83	0.1	0.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4558)	1:33:A:VAL:HG12	1:124:A:GLN:H	20	0.83	0.1	0.8
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG12	20	0.82	0.07	0.8
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	20	0.82	0.07	0.8
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG13	20	0.82	0.07	0.8
(2,1342)	1:59:A:ILE:HG22	1:136:A:GLN:HB2	20	0.82	0.08	0.82
(2,1342)	1:59:A:ILE:HG21	1:136:A:GLN:HB2	20	0.82	0.08	0.82
(2,1342)	1:59:A:ILE:HG23	1:136:A:GLN:HB2	20	0.82	0.08	0.82
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	20	0.82	0.03	0.82
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	20	0.81	0.11	0.82
(2,510)	1:122:A:LEU:HD13	1:92:A:LEU:HD12	20	0.81	0.14	0.84
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD12	20	0.81	0.14	0.84
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD13	20	0.81	0.14	0.84
(2,510)	1:122:A:LEU:HD13	1:92:A:LEU:HD13	20	0.81	0.14	0.84
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD11	20	0.81	0.14	0.84
(2,510)	1:122:A:LEU:HD11	1:92:A:LEU:HD13	20	0.81	0.14	0.84
(2,510)	1:122:A:LEU:HD13	1:92:A:LEU:HD11	20	0.81	0.14	0.84
(2,510)	1:122:A:LEU:HD11	1:92:A:LEU:HD12	20	0.81	0.14	0.84
(2,4796)	1:29:A:LEU:HD21	1:30:A:GLU:H	20	0.81	0.04	0.81
(2,4796)	1:29:A:LEU:HD22	1:30:A:GLU:H	20	0.81	0.04	0.81
(2,4796)	1:29:A:LEU:HD23	1:30:A:GLU:H	20	0.81	0.04	0.81
(2,1409)	1:39:A:VAL:HG21	1:37:A:GLN:HB2	20	0.81	0.03	0.81
(2,1409)	1:39:A:VAL:HG23	1:37:A:GLN:HB2	20	0.81	0.03	0.81
(2,1409)	1:39:A:VAL:HG22	1:37:A:GLN:HB2	20	0.81	0.03	0.81
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG13	20	0.81	0.2	0.75
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	20	0.81	0.2	0.75
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG11	20	0.81	0.2	0.75
(2,4033)	1:59:A:ILE:HD13	1:138:A:GLU:H	20	0.8	0.05	0.79
(2,4033)	1:59:A:ILE:HD11	1:138:A:GLU:H	20	0.8	0.05	0.79
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	20	0.8	0.05	0.79
(2,3723)	1:89:A:VAL:HG12	1:82:A:GLU:H	20	0.8	0.12	0.79
(2,3723)	1:89:A:VAL:HG11	1:82:A:GLU:H	20	0.8	0.12	0.79
(2,3723)	1:89:A:VAL:HG13	1:82:A:GLU:H	20	0.8	0.12	0.79
(2,3723)	1:89:A:VAL:HG13	1:81:A:LEU:H	20	0.8	0.12	0.79
(2,1301)	1:31:A:ILE:HD12	1:130:A:ALA:HA	20	0.79	0.03	0.79
(2,1301)	1:31:A:ILE:HD11	1:130:A:ALA:HA	20	0.79	0.03	0.79
(2,1301)	1:31:A:ILE:HD13	1:130:A:ALA:HA	20	0.79	0.03	0.79
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	20	0.77	0.41	0.74
(2,3989)	1:26:A:SER:HB2	1:24:A:PRO:HB3	20	0.77	0.41	0.74
(2,4744)	1:55:A:THR:HG22	1:62:A:LEU:H	20	0.77	0.11	0.78
(2,4744)	1:55:A:THR:HG23	1:62:A:LEU:H	20	0.77	0.11	0.78
(2,4744)	1:55:A:THR:HG21	1:62:A:LEU:H	20	0.77	0.11	0.78
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	20	0.77	0.24	0.76

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3913)	1:119:A:LYS:HE2	1:116:A:GLU:HG2	20	0.77	0.24	0.76
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	20	0.76	0.19	0.8
(2,4556)	1:58:A:PRO:HD2	1:136:A:GLN:HA	20	0.76	0.19	0.8
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG21	20	0.74	0.27	0.66
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG22	20	0.74	0.27	0.66
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG23	20	0.74	0.27	0.66
(2,346)	1:89:A:VAL:HG13	1:88:A:VAL:HA	20	0.74	0.04	0.74
(2,346)	1:89:A:VAL:HG12	1:88:A:VAL:HA	20	0.74	0.04	0.74
(2,346)	1:89:A:VAL:HG11	1:88:A:VAL:HA	20	0.74	0.04	0.74
(2,4564)	1:89:A:VAL:HG13	1:88:A:VAL:HA	20	0.74	0.04	0.74
(2,4564)	1:89:A:VAL:HG12	1:88:A:VAL:HA	20	0.74	0.04	0.74
(2,4564)	1:89:A:VAL:HG11	1:88:A:VAL:HA	20	0.74	0.04	0.74
(2,4083)	1:126:A:ILE:HD13	1:74:A:PHE:HB3	20	0.74	0.08	0.72
(2,4083)	1:126:A:ILE:HD11	1:74:A:PHE:HB3	20	0.74	0.08	0.72
(2,4083)	1:126:A:ILE:HD12	1:74:A:PHE:HB3	20	0.74	0.08	0.72
(2,4435)	1:59:A:ILE:HD13	1:159:A:ILE:HG12	20	0.73	0.03	0.74
(2,4435)	1:59:A:ILE:HD11	1:159:A:ILE:HG12	20	0.73	0.03	0.74
(2,4435)	1:59:A:ILE:HD12	1:159:A:ILE:HG12	20	0.73	0.03	0.74
(2,4435)	1:159:A:ILE:HG22	1:159:A:ILE:HG12	20	0.73	0.03	0.74
(2,4435)	1:159:A:ILE:HG21	1:159:A:ILE:HG12	20	0.73	0.03	0.74
(2,4435)	1:159:A:ILE:HG23	1:159:A:ILE:HG12	20	0.73	0.03	0.74
(2,3810)	1:129:A:VAL:HG12	1:128:A:LYS:HD2	20	0.73	0.2	0.63
(2,3810)	1:129:A:VAL:HG13	1:128:A:LYS:HD2	20	0.73	0.2	0.63
(2,3810)	1:129:A:VAL:HG12	1:128:A:LYS:HD3	20	0.73	0.2	0.63
(2,3810)	1:129:A:VAL:HG11	1:128:A:LYS:HD2	20	0.73	0.2	0.63
(2,3810)	1:129:A:VAL:HG11	1:128:A:LYS:HD3	20	0.73	0.2	0.63
(2,3810)	1:129:A:VAL:HG13	1:128:A:LYS:HD3	20	0.73	0.2	0.63
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	20	0.73	0.18	0.65
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	20	0.73	0.2	0.74
(2,3687)	1:150:A:ILE:HD11	1:144:A:PHE:H	20	0.73	0.08	0.74
(2,3687)	1:150:A:ILE:HD13	1:144:A:PHE:H	20	0.73	0.08	0.74
(2,3687)	1:150:A:ILE:HD12	1:144:A:PHE:H	20	0.73	0.08	0.74
(2,4151)	1:57:A:LEU:HD21	1:136:A:GLN:HA	20	0.73	0.35	0.72
(2,4151)	1:57:A:LEU:HD21	1:131:A:GLY:HA3	20	0.73	0.35	0.72
(2,4151)	1:57:A:LEU:HD23	1:131:A:GLY:HA3	20	0.73	0.35	0.72
(2,4151)	1:57:A:LEU:HD22	1:131:A:GLY:HA3	20	0.73	0.35	0.72
(2,4151)	1:57:A:LEU:HD23	1:136:A:GLN:HA	20	0.73	0.35	0.72
(2,4151)	1:57:A:LEU:HD22	1:136:A:GLN:HA	20	0.73	0.35	0.72
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG23	20	0.73	0.05	0.73
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	20	0.73	0.05	0.73
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG21	20	0.73	0.05	0.73
(2,3618)	1:32:A:ASP:HB3	1:31:A:ILE:HG22	20	0.73	0.05	0.73

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3618)	1:32:A:ASP:HB3	1:31:A:ILE:HG23	20	0.73	0.05	0.73
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG22	20	0.72	0.07	0.72
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG21	20	0.72	0.07	0.72
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG23	20	0.72	0.07	0.72
(2,2372)	1:33:A:VAL:HG21	1:74:A:PHE:HD2	20	0.72	0.1	0.74
(2,2372)	1:33:A:VAL:HG23	1:74:A:PHE:HD2	20	0.72	0.1	0.74
(2,2372)	1:33:A:VAL:HG22	1:74:A:PHE:HD2	20	0.72	0.1	0.74
(2,628)	1:129:A:VAL:HG11	1:77:A:LEU:HD12	20	0.72	0.7	0.51
(2,628)	1:129:A:VAL:HG11	1:77:A:LEU:HD11	20	0.72	0.7	0.51
(2,628)	1:129:A:VAL:HG12	1:77:A:LEU:HD11	20	0.72	0.7	0.51
(2,628)	1:129:A:VAL:HG12	1:77:A:LEU:HD12	20	0.72	0.7	0.51
(2,628)	1:129:A:VAL:HG13	1:77:A:LEU:HD12	20	0.72	0.7	0.51
(2,628)	1:129:A:VAL:HG11	1:77:A:LEU:HD13	20	0.72	0.7	0.51
(2,628)	1:129:A:VAL:HG13	1:77:A:LEU:HD13	20	0.72	0.7	0.51
(2,628)	1:129:A:VAL:HG12	1:77:A:LEU:HD13	20	0.72	0.7	0.51
(2,1388)	1:41:A:VAL:HG22	1:42:A:GLY:HA3	20	0.72	0.03	0.72
(2,1388)	1:41:A:VAL:HG21	1:42:A:GLY:HA3	20	0.72	0.03	0.72
(2,1388)	1:41:A:VAL:HG23	1:42:A:GLY:HA3	20	0.72	0.03	0.72
(2,270)	1:109:A:ILE:HD11	1:110:A:PHE:H	20	0.72	0.03	0.72
(2,270)	1:109:A:ILE:HD13	1:110:A:PHE:H	20	0.72	0.03	0.72
(2,270)	1:109:A:ILE:HD12	1:110:A:PHE:H	20	0.72	0.03	0.72
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	20	0.72	0.1	0.71
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD11	20	0.71	0.06	0.71
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	20	0.71	0.06	0.71
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD13	20	0.71	0.06	0.71
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG22	20	0.7	0.04	0.7
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG23	20	0.7	0.04	0.7
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG21	20	0.7	0.04	0.7
(2,4004)	1:159:A:ILE:HD12	1:141:A:LEU:HG	20	0.7	0.09	0.69
(2,4004)	1:159:A:ILE:HD11	1:141:A:LEU:HG	20	0.7	0.09	0.69
(2,4004)	1:159:A:ILE:HD13	1:141:A:LEU:HG	20	0.7	0.09	0.69
(2,4096)	1:59:A:ILE:HG22	1:136:A:GLN:H	20	0.7	0.06	0.7
(2,4096)	1:59:A:ILE:HG21	1:136:A:GLN:H	20	0.7	0.06	0.7
(2,4096)	1:59:A:ILE:HG23	1:136:A:GLN:H	20	0.7	0.06	0.7
(2,480)	1:53:A:VAL:HG23	1:31:A:ILE:HD12	20	0.7	0.07	0.74
(2,480)	1:53:A:VAL:HG21	1:31:A:ILE:HD11	20	0.7	0.07	0.74
(2,480)	1:53:A:VAL:HG22	1:31:A:ILE:HD12	20	0.7	0.07	0.74
(2,480)	1:53:A:VAL:HG21	1:31:A:ILE:HD12	20	0.7	0.07	0.74
(2,480)	1:53:A:VAL:HG23	1:31:A:ILE:HD13	20	0.7	0.07	0.74
(2,480)	1:53:A:VAL:HG22	1:31:A:ILE:HD11	20	0.7	0.07	0.74
(2,480)	1:53:A:VAL:HG23	1:31:A:ILE:HD11	20	0.7	0.07	0.74
(2,480)	1:53:A:VAL:HG22	1:31:A:ILE:HD13	20	0.7	0.07	0.74

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,480)	1:53:A:VAL:HG21	1:31:A:ILE:HD13	20	0.7	0.07	0.74
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG22	20	0.7	0.17	0.76
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG23	20	0.7	0.17	0.76
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG21	20	0.7	0.17	0.76
(2,4606)	1:77:A:LEU:H	1:125:A:PHE:HE2	20	0.7	0.08	0.7
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	20	0.7	0.08	0.7
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD2	20	0.7	0.08	0.7
(2,4570)	1:149:A:ILE:HG21	1:148:A:GLU:HA	20	0.7	0.08	0.7
(2,4570)	1:149:A:ILE:HD11	1:148:A:GLU:HA	20	0.7	0.08	0.7
(2,4570)	1:149:A:ILE:HD12	1:148:A:GLU:HA	20	0.7	0.08	0.7
(2,4570)	1:149:A:ILE:HD13	1:148:A:GLU:HA	20	0.7	0.08	0.7
(2,4570)	1:149:A:ILE:HG22	1:148:A:GLU:HA	20	0.7	0.08	0.7
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB2	20	0.7	0.16	0.67
(2,4015)	1:43:A:ARG:HG2	1:106:A:ASP:HB2	20	0.7	0.16	0.67
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB3	20	0.7	0.16	0.67
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	20	0.7	0.12	0.7
(2,4197)	1:160:A:ARG:HD3	1:59:A:ILE:H	20	0.7	0.12	0.7
(2,4536)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	20	0.7	0.24	0.72
(2,4536)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	20	0.7	0.24	0.72
(2,4536)	1:92:A:LEU:HD13	1:125:A:PHE:HE1	20	0.7	0.24	0.72
(2,1897)	1:115:A:ILE:HD11	1:116:A:GLU:HA	20	0.69	0.07	0.69
(2,1897)	1:115:A:ILE:HD13	1:116:A:GLU:HA	20	0.69	0.07	0.69
(2,1897)	1:115:A:ILE:HD12	1:116:A:GLU:HA	20	0.69	0.07	0.69
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	20	0.69	0.16	0.74
(2,4155)	1:57:A:LEU:HG	1:60:A:PHE:HE1	20	0.69	0.16	0.74
(2,4155)	1:57:A:LEU:HG	1:60:A:PHE:HE2	20	0.69	0.16	0.74
(2,1209)	1:29:A:LEU:HD23	1:56:A:ASN:H	20	0.69	0.03	0.68
(2,1209)	1:29:A:LEU:HD21	1:56:A:ASN:H	20	0.69	0.03	0.68
(2,1209)	1:29:A:LEU:HD22	1:56:A:ASN:H	20	0.69	0.03	0.68
(2,2078)	1:155:A:THR:HG21	1:139:A:ARG:HA	20	0.69	0.04	0.68
(2,2078)	1:155:A:THR:HG22	1:139:A:ARG:HA	20	0.69	0.04	0.68
(2,2078)	1:155:A:THR:HG23	1:139:A:ARG:HA	20	0.69	0.04	0.68
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	20	0.69	0.34	0.7
(2,3842)	1:159:A:ILE:HG23	1:142:A:HIS:HA	20	0.69	0.15	0.68
(2,3842)	1:159:A:ILE:HG21	1:142:A:HIS:HA	20	0.69	0.15	0.68
(2,3842)	1:159:A:ILE:HG22	1:142:A:HIS:HA	20	0.69	0.15	0.68
(2,3842)	1:159:A:ILE:HG21	1:136:A:GLN:HA	20	0.69	0.15	0.68
(2,3842)	1:159:A:ILE:HG23	1:136:A:GLN:HA	20	0.69	0.15	0.68
(2,3842)	1:159:A:ILE:HG22	1:136:A:GLN:HA	20	0.69	0.15	0.68
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	20	0.68	0.64	0.29
(2,2197)	1:126:A:ILE:HD13	1:77:A:LEU:HD12	20	0.68	0.55	0.56
(2,2197)	1:126:A:ILE:HD13	1:77:A:LEU:HD11	20	0.68	0.55	0.56

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2197)	1:126:A:ILE:HD12	1:77:A:LEU:HD12	20	0.68	0.55	0.56
(2,2197)	1:126:A:ILE:HD11	1:77:A:LEU:HD12	20	0.68	0.55	0.56
(2,2197)	1:126:A:ILE:HD12	1:77:A:LEU:HD13	20	0.68	0.55	0.56
(2,2197)	1:126:A:ILE:HD11	1:77:A:LEU:HD13	20	0.68	0.55	0.56
(2,2197)	1:126:A:ILE:HD13	1:77:A:LEU:HD13	20	0.68	0.55	0.56
(2,2197)	1:126:A:ILE:HD12	1:77:A:LEU:HD11	20	0.68	0.55	0.56
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG21	20	0.68	0.08	0.69
(2,3606)	1:90:A:PRO:HD3	1:89:A:VAL:HG22	20	0.68	0.08	0.69
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG22	20	0.68	0.08	0.69
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG23	20	0.68	0.08	0.69
(2,3606)	1:90:A:PRO:HD3	1:89:A:VAL:HG23	20	0.68	0.08	0.69
(2,4116)	1:135:A:ALA:HB3	1:88:A:VAL:H	20	0.68	0.08	0.66
(2,4116)	1:135:A:ALA:HB1	1:88:A:VAL:H	20	0.68	0.08	0.66
(2,4116)	1:135:A:ALA:HB2	1:88:A:VAL:H	20	0.68	0.08	0.66
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	20	0.68	0.27	0.78
(2,491)	1:126:A:ILE:HG23	1:123:A:GLU:HG2	20	0.68	0.14	0.62
(2,491)	1:126:A:ILE:HG21	1:123:A:GLU:HG2	20	0.68	0.14	0.62
(2,491)	1:126:A:ILE:HG22	1:123:A:GLU:HG2	20	0.68	0.14	0.62
(2,3765)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	20	0.67	0.05	0.69
(2,3765)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	20	0.67	0.05	0.69
(2,3765)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	20	0.67	0.05	0.69
(2,4493)	1:29:A:LEU:HD21	1:130:A:ALA:HA	20	0.67	0.1	0.68
(2,4493)	1:29:A:LEU:HD22	1:130:A:ALA:HA	20	0.67	0.1	0.68
(2,4493)	1:29:A:LEU:HD23	1:130:A:ALA:HA	20	0.67	0.1	0.68
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	20	0.67	0.05	0.68
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	20	0.67	0.19	0.78
(2,3660)	1:66:A:THR:HG23	1:52:A:ARG:HB2	20	0.66	0.13	0.7
(2,3660)	1:66:A:THR:HG21	1:52:A:ARG:HB2	20	0.66	0.13	0.7
(2,3660)	1:66:A:THR:HG22	1:52:A:ARG:HB2	20	0.66	0.13	0.7
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG12	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG21	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD13	1:33:A:VAL:HG21	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG21	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG11	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG23	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG23	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG22	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD13	1:33:A:VAL:HG23	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG22	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD13	1:33:A:VAL:HG22	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG12	20	0.66	0.2	0.7
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG11	20	0.66	0.2	0.7

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1504)	1:57:A:LEU:HD22	1:29:A:LEU:HD13	20	0.65	0.05	0.66
(2,1504)	1:57:A:LEU:HD21	1:29:A:LEU:HD13	20	0.65	0.05	0.66
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD13	20	0.65	0.05	0.66
(2,1504)	1:57:A:LEU:HD21	1:29:A:LEU:HD11	20	0.65	0.05	0.66
(2,1504)	1:57:A:LEU:HD22	1:29:A:LEU:HD12	20	0.65	0.05	0.66
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD12	20	0.65	0.05	0.66
(2,1504)	1:57:A:LEU:HD21	1:29:A:LEU:HD12	20	0.65	0.05	0.66
(2,1504)	1:57:A:LEU:HD22	1:29:A:LEU:HD11	20	0.65	0.05	0.66
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD11	20	0.65	0.05	0.66
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD23	20	0.65	0.02	0.65
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD21	20	0.65	0.02	0.65
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD22	20	0.65	0.02	0.65
(2,4332)	1:141:A:LEU:HD11	1:132:A:HIS:HB3	20	0.65	0.12	0.64
(2,4332)	1:141:A:LEU:HD13	1:132:A:HIS:HB3	20	0.65	0.12	0.64
(2,4332)	1:141:A:LEU:HD12	1:132:A:HIS:HB3	20	0.65	0.12	0.64
(2,2181)	1:53:A:VAL:HG13	1:31:A:ILE:HG12	20	0.65	0.06	0.64
(2,2181)	1:53:A:VAL:HG11	1:31:A:ILE:HG12	20	0.65	0.06	0.64
(2,2181)	1:53:A:VAL:HG12	1:31:A:ILE:HG12	20	0.65	0.06	0.64
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG21	20	0.65	0.09	0.62
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG22	20	0.65	0.09	0.62
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG23	20	0.65	0.09	0.62
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	20	0.65	0.05	0.66
(2,4506)	1:77:A:LEU:HD11	1:81:A:LEU:HA	20	0.65	0.12	0.66
(2,4506)	1:77:A:LEU:HD13	1:81:A:LEU:HA	20	0.65	0.12	0.66
(2,4506)	1:77:A:LEU:HD12	1:81:A:LEU:HA	20	0.65	0.12	0.66
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD11	20	0.64	0.1	0.64
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD13	20	0.64	0.1	0.64
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD12	20	0.64	0.1	0.64
(2,2033)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	20	0.64	0.05	0.66
(2,2033)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	20	0.64	0.05	0.66
(2,2033)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	20	0.64	0.05	0.66
(2,3657)	1:66:A:THR:HG21	1:68:A:ARG:H	20	0.64	0.15	0.67
(2,3657)	1:66:A:THR:HG22	1:68:A:ARG:H	20	0.64	0.15	0.67
(2,3657)	1:66:A:THR:HG23	1:68:A:ARG:H	20	0.64	0.15	0.67
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG21	20	0.64	0.11	0.6
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG23	20	0.64	0.11	0.6
(2,4039)	1:45:A:ARG:HA	1:38:A:THR:HG23	20	0.64	0.11	0.6
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG22	20	0.64	0.11	0.6
(2,4474)	1:77:A:LEU:HD12	1:126:A:ILE:HB	20	0.64	0.13	0.66
(2,4474)	1:77:A:LEU:HD11	1:126:A:ILE:HB	20	0.64	0.13	0.66
(2,4474)	1:77:A:LEU:HD12	1:141:A:LEU:HB3	20	0.64	0.13	0.66
(2,4474)	1:77:A:LEU:HD13	1:126:A:ILE:HB	20	0.64	0.13	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4474)	1:77:A:LEU:HD11	1:145:A:LEU:HG	20	0.64	0.13	0.66
(2,4474)	1:77:A:LEU:HD12	1:138:A:GLU:HB2	20	0.64	0.13	0.66
(2,1303)	1:31:A:ILE:HD13	1:31:A:ILE:HA	20	0.64	0.05	0.66
(2,1303)	1:31:A:ILE:HD12	1:31:A:ILE:HA	20	0.64	0.05	0.66
(2,1303)	1:31:A:ILE:HD11	1:31:A:ILE:HA	20	0.64	0.05	0.66
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	20	0.63	0.0	0.63
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG22	20	0.63	0.18	0.68
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG21	20	0.63	0.18	0.68
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG23	20	0.63	0.18	0.68
(2,4298)	1:93:A:PRO:HD3	1:125:A:PHE:HE1	20	0.63	0.12	0.62
(2,4298)	1:93:A:PRO:HD3	1:74:A:PHE:HD2	20	0.63	0.12	0.62
(2,3843)	1:55:A:THR:HG22	1:55:A:THR:HA	20	0.63	0.01	0.63
(2,3843)	1:55:A:THR:HG21	1:55:A:THR:HA	20	0.63	0.01	0.63
(2,3843)	1:55:A:THR:HG23	1:55:A:THR:HA	20	0.63	0.01	0.63
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD11	20	0.63	0.22	0.68
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD12	20	0.63	0.22	0.68
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD13	20	0.63	0.22	0.68
(2,621)	1:89:A:VAL:HG13	1:129:A:VAL:HG23	20	0.62	0.04	0.63
(2,621)	1:89:A:VAL:HG13	1:129:A:VAL:HG21	20	0.62	0.04	0.63
(2,621)	1:89:A:VAL:HG12	1:129:A:VAL:HG22	20	0.62	0.04	0.63
(2,621)	1:89:A:VAL:HG11	1:129:A:VAL:HG22	20	0.62	0.04	0.63
(2,621)	1:89:A:VAL:HG11	1:129:A:VAL:HG21	20	0.62	0.04	0.63
(2,621)	1:89:A:VAL:HG12	1:129:A:VAL:HG21	20	0.62	0.04	0.63
(2,621)	1:89:A:VAL:HG11	1:129:A:VAL:HG23	20	0.62	0.04	0.63
(2,621)	1:89:A:VAL:HG13	1:129:A:VAL:HG22	20	0.62	0.04	0.63
(2,2315)	1:77:A:LEU:HD23	1:144:A:PHE:H	20	0.62	0.35	0.52
(2,2315)	1:77:A:LEU:HD22	1:144:A:PHE:H	20	0.62	0.35	0.52
(2,2315)	1:77:A:LEU:HD21	1:144:A:PHE:H	20	0.62	0.35	0.52
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	20	0.62	0.11	0.6
(2,3614)	1:32:A:ASP:HB2	1:123:A:GLU:HB3	20	0.62	0.11	0.6
(2,4154)	1:57:A:LEU:HD22	1:29:A:LEU:HD23	20	0.62	0.05	0.62
(2,4154)	1:57:A:LEU:HD21	1:29:A:LEU:HD23	20	0.62	0.05	0.62
(2,4154)	1:57:A:LEU:HD21	1:29:A:LEU:HD21	20	0.62	0.05	0.62
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD22	20	0.62	0.05	0.62
(2,4154)	1:57:A:LEU:HD22	1:29:A:LEU:HD22	20	0.62	0.05	0.62
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD23	20	0.62	0.05	0.62
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD21	20	0.62	0.05	0.62
(2,4154)	1:57:A:LEU:HD22	1:29:A:LEU:HD21	20	0.62	0.05	0.62
(2,4154)	1:57:A:LEU:HD21	1:29:A:LEU:HD22	20	0.62	0.05	0.62
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD12	20	0.62	0.03	0.62
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD13	20	0.62	0.03	0.62
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD11	20	0.62	0.03	0.62

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2014)	1:134:A:LEU:HD11	1:137:A:ASN:HD22	20	0.61	0.08	0.61
(2,2014)	1:134:A:LEU:HD12	1:137:A:ASN:HD22	20	0.61	0.08	0.61
(2,2014)	1:134:A:LEU:HD13	1:137:A:ASN:HD22	20	0.61	0.08	0.61
(2,3942)	1:115:A:ILE:HG22	1:119:A:LYS:HE2	20	0.61	0.19	0.68
(2,3942)	1:115:A:ILE:HG21	1:119:A:LYS:HE2	20	0.61	0.19	0.68
(2,3942)	1:115:A:ILE:HG23	1:119:A:LYS:HE2	20	0.61	0.19	0.68
(2,4071)	1:81:A:LEU:HD12	1:141:A:LEU:H	20	0.61	0.24	0.59
(2,4071)	1:81:A:LEU:HD11	1:141:A:LEU:H	20	0.61	0.24	0.59
(2,4071)	1:81:A:LEU:HD13	1:141:A:LEU:H	20	0.61	0.24	0.59
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG22	20	0.6	0.08	0.6
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	20	0.6	0.08	0.6
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG23	20	0.6	0.08	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	20	0.6	0.0	0.6
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD12	20	0.6	0.15	0.64
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD11	20	0.6	0.15	0.64
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD13	20	0.6	0.15	0.64
(2,4492)	1:31:A:ILE:HD12	1:130:A:ALA:HA	20	0.6	0.15	0.64
(2,4492)	1:31:A:ILE:HD11	1:130:A:ALA:HA	20	0.6	0.15	0.64
(2,4492)	1:31:A:ILE:HD13	1:130:A:ALA:HA	20	0.6	0.15	0.64
(2,4084)	1:51:A:ILE:HD12	1:49:A:TYR:H	20	0.6	0.08	0.61
(2,4084)	1:51:A:ILE:HD11	1:34:A:SER:H	20	0.6	0.08	0.61
(2,4084)	1:51:A:ILE:HD12	1:34:A:SER:H	20	0.6	0.08	0.61
(2,4084)	1:51:A:ILE:HD13	1:49:A:TYR:H	20	0.6	0.08	0.61
(2,4084)	1:51:A:ILE:HD11	1:49:A:TYR:H	20	0.6	0.08	0.61
(2,4084)	1:51:A:ILE:HD13	1:34:A:SER:H	20	0.6	0.08	0.61
(2,3762)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	20	0.6	0.17	0.57
(2,3762)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	20	0.6	0.17	0.57
(2,3762)	1:53:A:VAL:HG21	1:64:A:GLU:HB3	20	0.6	0.17	0.57
(2,3764)	1:53:A:VAL:HG21	1:30:A:GLU:HG3	20	0.6	0.18	0.6
(2,3764)	1:53:A:VAL:HG22	1:30:A:GLU:HG3	20	0.6	0.18	0.6
(2,3764)	1:53:A:VAL:HG23	1:30:A:GLU:HG3	20	0.6	0.18	0.6
(2,1134)	1:59:A:ILE:HD13	1:159:A:ILE:H	20	0.59	0.04	0.6
(2,1134)	1:59:A:ILE:HD11	1:159:A:ILE:H	20	0.59	0.04	0.6
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	20	0.59	0.04	0.6
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	20	0.59	0.34	0.49
(2,4426)	1:18:A:LEU:HA	1:19:A:ASN:HB2	20	0.59	0.34	0.49
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	20	0.59	0.04	0.58
(2,3020)	1:8:A:THR:HG23	1:9:A:ARG:H	20	0.59	0.08	0.6
(2,3020)	1:8:A:THR:HG21	1:9:A:ARG:H	20	0.59	0.08	0.6
(2,3020)	1:8:A:THR:HG22	1:9:A:ARG:H	20	0.59	0.08	0.6
(2,1282)	1:31:A:ILE:HD12	1:30:A:GLU:H	20	0.59	0.03	0.58
(2,1282)	1:31:A:ILE:HD11	1:30:A:GLU:H	20	0.59	0.03	0.58

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1282)	1:31:A:ILE:HD13	1:30:A:GLU:H	20	0.59	0.03	0.58
(2,3450)	1:130:A:ALA:HB1	1:132:A:HIS:H	20	0.58	0.1	0.61
(2,3450)	1:130:A:ALA:HB2	1:132:A:HIS:H	20	0.58	0.1	0.61
(2,3450)	1:130:A:ALA:HB3	1:132:A:HIS:H	20	0.58	0.1	0.61
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	20	0.58	0.05	0.57
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	20	0.58	0.06	0.58
(2,2263)	1:134:A:LEU:HD22	1:135:A:ALA:HA	20	0.58	0.09	0.6
(2,2263)	1:134:A:LEU:HD23	1:135:A:ALA:HA	20	0.58	0.09	0.6
(2,2263)	1:134:A:LEU:HD21	1:135:A:ALA:HA	20	0.58	0.09	0.6
(2,4434)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	20	0.58	0.03	0.57
(2,4434)	1:29:A:LEU:HD12	1:30:A:GLU:HB3	20	0.58	0.03	0.57
(2,4434)	1:29:A:LEU:HD13	1:30:A:GLU:HB3	20	0.58	0.03	0.57
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG22	20	0.58	0.11	0.58
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG23	20	0.58	0.11	0.58
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG21	20	0.58	0.11	0.58
(2,3956)	1:108:A:GLY:HA2	1:109:A:ILE:HG21	20	0.58	0.11	0.58
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG23	20	0.57	0.13	0.6
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG12	20	0.57	0.13	0.6
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG22	20	0.57	0.13	0.6
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG21	20	0.57	0.13	0.6
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	20	0.57	0.03	0.57
(2,247)	1:150:A:ILE:HG22	1:76:A:TRP:HZ2	20	0.57	0.15	0.61
(2,247)	1:150:A:ILE:HG23	1:76:A:TRP:HZ2	20	0.57	0.15	0.61
(2,247)	1:150:A:ILE:HG21	1:76:A:TRP:HZ2	20	0.57	0.15	0.61
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	20	0.57	0.01	0.57
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG23	20	0.57	0.17	0.63
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG22	20	0.57	0.17	0.63
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG21	20	0.57	0.17	0.63
(2,3658)	1:66:A:THR:HG22	1:52:A:ARG:HD2	20	0.56	0.23	0.48
(2,3658)	1:66:A:THR:HG23	1:52:A:ARG:HD3	20	0.56	0.23	0.48
(2,3658)	1:66:A:THR:HG23	1:52:A:ARG:HD2	20	0.56	0.23	0.48
(2,3658)	1:66:A:THR:HG22	1:52:A:ARG:HD3	20	0.56	0.23	0.48
(2,3658)	1:66:A:THR:HG21	1:52:A:ARG:HD3	20	0.56	0.23	0.48
(2,3658)	1:66:A:THR:HG21	1:52:A:ARG:HD2	20	0.56	0.23	0.48
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	20	0.56	0.07	0.6
(2,3727)	1:89:A:VAL:HA	1:128:A:LYS:HB2	20	0.56	0.07	0.6
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	20	0.56	0.1	0.55
(2,3615)	1:32:A:ASP:HB3	1:53:A:VAL:HB	20	0.56	0.1	0.55
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG23	20	0.56	0.04	0.56
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG21	20	0.56	0.04	0.56
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG22	20	0.56	0.04	0.56
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	20	0.56	0.05	0.56

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	20	0.55	0.02	0.56
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD23	20	0.55	0.08	0.54
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD21	20	0.55	0.08	0.54
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD22	20	0.55	0.08	0.54
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD21	20	0.55	0.01	0.55
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD23	20	0.55	0.01	0.55
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD22	20	0.55	0.01	0.55
(2,4325)	1:33:A:VAL:HG22	1:119:A:LYS:HG3	20	0.55	0.27	0.5
(2,4325)	1:33:A:VAL:HG21	1:119:A:LYS:HG3	20	0.55	0.27	0.5
(2,4325)	1:33:A:VAL:HG23	1:119:A:LYS:HG3	20	0.55	0.27	0.5
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	20	0.55	0.05	0.54
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	20	0.55	0.07	0.56
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB2	20	0.55	0.07	0.56
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG23	20	0.54	0.15	0.57
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG21	20	0.54	0.15	0.57
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG22	20	0.54	0.15	0.57
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD13	20	0.54	0.13	0.57
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD11	20	0.54	0.13	0.57
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD12	20	0.54	0.13	0.57
(2,4139)	1:137:A:ASN:HB3	1:141:A:LEU:HD23	20	0.54	0.13	0.57
(2,4139)	1:137:A:ASN:HB3	1:141:A:LEU:HD22	20	0.54	0.13	0.57
(2,4319)	1:115:A:ILE:HG21	1:118:A:ARG:HB3	20	0.53	0.22	0.55
(2,4319)	1:115:A:ILE:HG23	1:118:A:ARG:HB3	20	0.53	0.22	0.55
(2,4319)	1:115:A:ILE:HG22	1:118:A:ARG:HB3	20	0.53	0.22	0.55
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	20	0.53	0.32	0.41
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	20	0.53	0.04	0.54
(2,1245)	1:81:A:LEU:HD21	1:137:A:ASN:H	20	0.53	0.06	0.55
(2,1245)	1:81:A:LEU:HD23	1:137:A:ASN:H	20	0.53	0.06	0.55
(2,1245)	1:81:A:LEU:HD22	1:137:A:ASN:H	20	0.53	0.06	0.55
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	20	0.53	0.11	0.55
(2,4925)	1:137:A:ASN:HD22	1:160:A:ARG:HA	20	0.53	0.11	0.55
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	20	0.53	0.02	0.54
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD13	20	0.53	0.02	0.53
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD12	20	0.53	0.02	0.53
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD11	20	0.53	0.02	0.53
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	20	0.53	0.06	0.54
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	20	0.53	0.07	0.5
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	20	0.52	0.18	0.46
(2,3890)	1:93:A:PRO:HG2	1:92:A:LEU:H	20	0.52	0.18	0.46
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	20	0.52	0.1	0.5
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	20	0.52	0.03	0.52
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	20	0.52	0.09	0.49

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3772)	1:126:A:ILE:HG21	1:32:A:ASP:HA	20	0.52	0.11	0.55
(2,3772)	1:126:A:ILE:HG22	1:32:A:ASP:HA	20	0.52	0.11	0.55
(2,3772)	1:126:A:ILE:HG23	1:32:A:ASP:HA	20	0.52	0.11	0.55
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	20	0.52	0.28	0.29
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	20	0.51	0.01	0.52
(2,4437)	1:31:A:ILE:HG22	1:53:A:VAL:HG12	20	0.51	0.09	0.53
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG12	20	0.51	0.09	0.53
(2,4437)	1:31:A:ILE:HG23	1:53:A:VAL:HG11	20	0.51	0.09	0.53
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG11	20	0.51	0.09	0.53
(2,4437)	1:31:A:ILE:HG23	1:53:A:VAL:HG12	20	0.51	0.09	0.53
(2,4437)	1:31:A:ILE:HG23	1:53:A:VAL:HG13	20	0.51	0.09	0.53
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG13	20	0.51	0.09	0.53
(2,2107)	1:98:A:LEU:HD11	1:97:A:PHE:HZ	20	0.51	0.05	0.51
(2,2107)	1:98:A:LEU:HD13	1:97:A:PHE:HZ	20	0.51	0.05	0.51
(2,2107)	1:98:A:LEU:HD12	1:97:A:PHE:HZ	20	0.51	0.05	0.51
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	20	0.51	0.07	0.52
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG13	20	0.51	0.07	0.52
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG12	20	0.51	0.07	0.52
(2,618)	1:89:A:VAL:HG21	1:129:A:VAL:HG13	20	0.51	0.06	0.52
(2,618)	1:89:A:VAL:HG23	1:129:A:VAL:HG13	20	0.51	0.06	0.52
(2,618)	1:89:A:VAL:HG22	1:129:A:VAL:HG13	20	0.51	0.06	0.52
(2,618)	1:89:A:VAL:HG21	1:129:A:VAL:HG11	20	0.51	0.06	0.52
(2,618)	1:89:A:VAL:HG23	1:129:A:VAL:HG11	20	0.51	0.06	0.52
(2,618)	1:89:A:VAL:HG22	1:129:A:VAL:HG12	20	0.51	0.06	0.52
(2,618)	1:89:A:VAL:HG23	1:129:A:VAL:HG12	20	0.51	0.06	0.52
(2,618)	1:89:A:VAL:HG21	1:129:A:VAL:HG12	20	0.51	0.06	0.52
(2,4240)	1:31:A:ILE:HG22	1:52:A:ARG:HB2	20	0.51	0.2	0.54
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	20	0.51	0.2	0.54
(2,4240)	1:31:A:ILE:HG23	1:52:A:ARG:HB2	20	0.51	0.2	0.54
(2,4240)	1:31:A:ILE:HG21	1:145:A:LEU:HB2	20	0.51	0.2	0.54
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	20	0.51	0.1	0.55
(2,361)	1:89:A:VAL:HG23	1:88:A:VAL:H	20	0.5	0.03	0.5
(2,361)	1:89:A:VAL:HG22	1:88:A:VAL:H	20	0.5	0.03	0.5
(2,361)	1:89:A:VAL:HG21	1:88:A:VAL:H	20	0.5	0.03	0.5
(2,423)	1:87:A:VAL:HG12	1:88:A:VAL:HG13	20	0.5	0.04	0.49
(2,423)	1:87:A:VAL:HG13	1:88:A:VAL:HG13	20	0.5	0.04	0.49
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG13	20	0.5	0.04	0.49
(2,423)	1:87:A:VAL:HG13	1:88:A:VAL:HG12	20	0.5	0.04	0.49
(2,423)	1:87:A:VAL:HG13	1:88:A:VAL:HG11	20	0.5	0.04	0.49
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG12	20	0.5	0.04	0.49
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG11	20	0.5	0.04	0.49
(2,423)	1:87:A:VAL:HG12	1:88:A:VAL:HG12	20	0.5	0.04	0.49

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	20	0.49	0.01	0.5
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	20	0.49	0.02	0.49
(2,3977)	1:99:A:ARG:HB3	1:99:A:ARG:HG2	20	0.49	0.02	0.49
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	20	0.49	0.08	0.5
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG21	20	0.49	0.05	0.48
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG23	20	0.49	0.05	0.48
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG22	20	0.49	0.05	0.48
(2,4954)	1:100:A:GLN:HG3	1:100:A:GLN:HE22	20	0.49	0.15	0.37
(2,4954)	1:100:A:GLN:HG2	1:100:A:GLN:HE22	20	0.49	0.15	0.37
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	20	0.48	0.04	0.5
(2,4573)	1:68:A:ARG:HD2	1:68:A:ARG:HB3	20	0.48	0.36	0.32
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	20	0.48	0.36	0.32
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	20	0.48	0.01	0.48
(2,4414)	1:12:A:ILE:HB	1:11:A:LEU:HA	20	0.48	0.16	0.45
(2,4414)	1:11:A:LEU:HA	1:10:A:ARG:HB2	20	0.48	0.16	0.45
(2,1338)	1:59:A:ILE:HG21	1:58:A:PRO:HA	20	0.48	0.08	0.48
(2,1338)	1:59:A:ILE:HG23	1:58:A:PRO:HA	20	0.48	0.08	0.48
(2,1338)	1:59:A:ILE:HG22	1:58:A:PRO:HA	20	0.48	0.08	0.48
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	20	0.48	0.05	0.49
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE1	20	0.48	0.05	0.49
(2,3844)	1:159:A:ILE:HG23	1:139:A:ARG:HA	20	0.48	0.06	0.48
(2,3844)	1:159:A:ILE:HG21	1:139:A:ARG:HA	20	0.48	0.06	0.48
(2,3844)	1:159:A:ILE:HG22	1:139:A:ARG:HA	20	0.48	0.06	0.48
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	20	0.48	0.09	0.52
(2,1116)	1:149:A:ILE:HD11	1:148:A:GLU:HA	20	0.48	0.08	0.49
(2,1116)	1:149:A:ILE:HD12	1:148:A:GLU:HA	20	0.48	0.08	0.49
(2,1116)	1:149:A:ILE:HD13	1:148:A:GLU:HA	20	0.48	0.08	0.49
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	20	0.47	0.25	0.36
(2,1362)	1:135:A:ALA:HB2	1:132:A:HIS:HB2	20	0.47	0.04	0.48
(2,1362)	1:135:A:ALA:HB3	1:132:A:HIS:HB2	20	0.47	0.04	0.48
(2,1362)	1:135:A:ALA:HB1	1:132:A:HIS:HB2	20	0.47	0.04	0.48
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	20	0.47	0.11	0.48
(2,4503)	1:82:A:GLU:HG2	1:84:A:GLU:H	20	0.47	0.11	0.48
(2,479)	1:53:A:VAL:HG22	1:55:A:THR:HG23	20	0.47	0.11	0.5
(2,479)	1:53:A:VAL:HG23	1:55:A:THR:HG23	20	0.47	0.11	0.5
(2,479)	1:53:A:VAL:HG21	1:55:A:THR:HG21	20	0.47	0.11	0.5
(2,479)	1:53:A:VAL:HG23	1:55:A:THR:HG21	20	0.47	0.11	0.5
(2,479)	1:53:A:VAL:HG22	1:55:A:THR:HG22	20	0.47	0.11	0.5
(2,479)	1:53:A:VAL:HG22	1:55:A:THR:HG21	20	0.47	0.11	0.5
(2,479)	1:53:A:VAL:HG23	1:55:A:THR:HG22	20	0.47	0.11	0.5
(2,479)	1:53:A:VAL:HG21	1:55:A:THR:HG22	20	0.47	0.11	0.5
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	20	0.46	0.03	0.46

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,485)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	20	0.46	0.03	0.46
(2,485)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	20	0.46	0.03	0.46
(2,485)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	20	0.46	0.03	0.46
(2,3840)	1:55:A:THR:HG21	1:60:A:PHE:HE2	20	0.46	0.04	0.45
(2,3840)	1:55:A:THR:HG22	1:60:A:PHE:HE2	20	0.46	0.04	0.45
(2,3840)	1:55:A:THR:HG23	1:60:A:PHE:HE2	20	0.46	0.04	0.45
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	20	0.45	0.03	0.46
(2,4704)	1:31:A:ILE:HD11	1:130:A:ALA:H	20	0.45	0.09	0.48
(2,4704)	1:31:A:ILE:HD13	1:130:A:ALA:H	20	0.45	0.09	0.48
(2,4704)	1:31:A:ILE:HD12	1:130:A:ALA:H	20	0.45	0.09	0.48
(2,4704)	1:77:A:LEU:HD23	1:78:A:ARG:H	20	0.45	0.09	0.48
(2,4704)	1:77:A:LEU:HD21	1:78:A:ARG:H	20	0.45	0.09	0.48
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	20	0.45	0.19	0.42
(2,4832)	1:63:A:LYS:HE2	1:64:A:GLU:H	20	0.45	0.19	0.42
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	20	0.45	0.1	0.47
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	20	0.45	0.01	0.45
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	20	0.45	0.25	0.48
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	20	0.45	0.05	0.45
(2,2408)	1:115:A:ILE:HG22	1:116:A:GLU:HG2	20	0.45	0.04	0.44
(2,2408)	1:115:A:ILE:HG21	1:116:A:GLU:HG2	20	0.45	0.04	0.44
(2,2408)	1:115:A:ILE:HG23	1:116:A:GLU:HG2	20	0.45	0.04	0.44
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	20	0.45	0.06	0.44
(2,1672)	1:31:A:ILE:HG21	1:127:A:ASN:H	20	0.45	0.17	0.48
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	20	0.45	0.17	0.48
(2,1672)	1:31:A:ILE:HG22	1:127:A:ASN:H	20	0.45	0.17	0.48
(2,3771)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	20	0.45	0.03	0.46
(2,3771)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	20	0.45	0.03	0.46
(2,3771)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	20	0.45	0.03	0.46
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD23	20	0.45	0.02	0.44
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD21	20	0.45	0.02	0.44
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD22	20	0.45	0.02	0.44
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	20	0.44	0.06	0.44
(2,490)	1:126:A:ILE:HG22	1:127:A:ASN:HB3	20	0.44	0.04	0.44
(2,490)	1:126:A:ILE:HG23	1:127:A:ASN:HB3	20	0.44	0.04	0.44
(2,490)	1:126:A:ILE:HG21	1:127:A:ASN:HB3	20	0.44	0.04	0.44
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	20	0.44	0.05	0.44
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	20	0.44	0.1	0.4
(2,3793)	1:130:A:ALA:HB2	1:126:A:ILE:HD11	20	0.44	0.08	0.43
(2,3793)	1:130:A:ALA:HB1	1:145:A:LEU:HD13	20	0.44	0.08	0.43
(2,3793)	1:130:A:ALA:HB2	1:126:A:ILE:HD12	20	0.44	0.08	0.43
(2,3793)	1:130:A:ALA:HB3	1:145:A:LEU:HD13	20	0.44	0.08	0.43
(2,3793)	1:130:A:ALA:HB1	1:126:A:ILE:HD13	20	0.44	0.08	0.43

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3793)	1:130:A:ALA:HB1	1:145:A:LEU:HD11	20	0.44	0.08	0.43
(2,3793)	1:130:A:ALA:HB2	1:126:A:ILE:HD13	20	0.44	0.08	0.43
(2,3793)	1:130:A:ALA:HB3	1:126:A:ILE:HD12	20	0.44	0.08	0.43
(2,3793)	1:130:A:ALA:HB3	1:126:A:ILE:HD13	20	0.44	0.08	0.43
(2,3793)	1:130:A:ALA:HB1	1:126:A:ILE:HD12	20	0.44	0.08	0.43
(2,3793)	1:130:A:ALA:HB2	1:145:A:LEU:HD13	20	0.44	0.08	0.43
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	20	0.44	0.09	0.44
(2,4516)	1:72:A:SER:HB2	1:75:A:GLU:H	20	0.44	0.09	0.44
(2,1670)	1:31:A:ILE:HG23	1:31:A:ILE:H	20	0.43	0.02	0.44
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	20	0.43	0.02	0.44
(2,1670)	1:31:A:ILE:HG21	1:31:A:ILE:H	20	0.43	0.02	0.44
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	20	0.43	0.01	0.43
(2,1335)	1:59:A:ILE:HG23	1:57:A:LEU:H	20	0.42	0.06	0.42
(2,1335)	1:59:A:ILE:HG22	1:57:A:LEU:H	20	0.42	0.06	0.42
(2,1335)	1:59:A:ILE:HG21	1:57:A:LEU:H	20	0.42	0.06	0.42
(2,1401)	1:39:A:VAL:HG23	1:46:A:PHE:HE2	20	0.42	0.09	0.41
(2,1401)	1:39:A:VAL:HG22	1:46:A:PHE:HE2	20	0.42	0.09	0.41
(2,1401)	1:39:A:VAL:HG21	1:46:A:PHE:HE2	20	0.42	0.09	0.41
(2,4782)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	20	0.42	0.13	0.34
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	20	0.42	0.13	0.34
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	20	0.42	0.03	0.42
(2,3278)	1:66:A:THR:HG21	1:66:A:THR:H	20	0.42	0.04	0.42
(2,3278)	1:66:A:THR:HG22	1:66:A:THR:H	20	0.42	0.04	0.42
(2,3278)	1:66:A:THR:HG23	1:66:A:THR:H	20	0.42	0.04	0.42
(2,4533)	1:88:A:VAL:HG21	1:90:A:PRO:HB2	20	0.42	0.09	0.4
(2,4533)	1:88:A:VAL:HG23	1:89:A:VAL:HB	20	0.42	0.09	0.4
(2,4533)	1:88:A:VAL:HG22	1:90:A:PRO:HB2	20	0.42	0.09	0.4
(2,4533)	1:88:A:VAL:HG23	1:90:A:PRO:HB2	20	0.42	0.09	0.4
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG13	20	0.41	0.02	0.41
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG11	20	0.41	0.02	0.41
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG12	20	0.41	0.02	0.41
(2,680)	1:55:A:THR:HG22	1:63:A:LYS:HB3	20	0.41	0.1	0.42
(2,680)	1:55:A:THR:HG23	1:63:A:LYS:HB3	20	0.41	0.1	0.42
(2,680)	1:55:A:THR:HG21	1:63:A:LYS:HB3	20	0.41	0.1	0.42
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	20	0.41	0.12	0.4
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	20	0.41	0.05	0.41
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB3	20	0.41	0.07	0.44
(2,1381)	1:87:A:VAL:HG21	1:135:A:ALA:HB3	20	0.41	0.07	0.44
(2,1381)	1:87:A:VAL:HG22	1:135:A:ALA:HB3	20	0.41	0.07	0.44
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB1	20	0.41	0.07	0.44
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB2	20	0.41	0.07	0.44
(2,1381)	1:87:A:VAL:HG22	1:135:A:ALA:HB1	20	0.41	0.07	0.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1381)	1:87:A:VAL:HG22	1:135:A:ALA:HB2	20	0.41	0.07	0.44
(2,1381)	1:87:A:VAL:HG21	1:135:A:ALA:HB1	20	0.41	0.07	0.44
(2,917)	1:109:A:ILE:HG22	1:110:A:PHE:H	20	0.41	0.05	0.42
(2,917)	1:109:A:ILE:HG23	1:110:A:PHE:H	20	0.41	0.05	0.42
(2,917)	1:109:A:ILE:HG21	1:110:A:PHE:H	20	0.41	0.05	0.42
(2,248)	1:150:A:ILE:HG22	1:144:A:PHE:HD2	20	0.4	0.17	0.43
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD2	20	0.4	0.17	0.43
(2,248)	1:150:A:ILE:HG23	1:144:A:PHE:HD2	20	0.4	0.17	0.43
(2,248)	1:150:A:ILE:HG22	1:144:A:PHE:HD1	20	0.4	0.17	0.43
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD1	20	0.4	0.17	0.43
(2,248)	1:150:A:ILE:HG23	1:144:A:PHE:HD1	20	0.4	0.17	0.43
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	20	0.4	0.01	0.4
(2,306)	1:92:A:LEU:HD22	1:75:A:GLU:H	20	0.4	0.15	0.45
(2,306)	1:92:A:LEU:HD23	1:75:A:GLU:H	20	0.4	0.15	0.45
(2,306)	1:92:A:LEU:HD21	1:75:A:GLU:H	20	0.4	0.15	0.45
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	20	0.4	0.04	0.39
(2,4807)	1:57:A:LEU:H	1:59:A:ILE:H	20	0.4	0.16	0.46
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD2	20	0.4	0.16	0.46
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD1	20	0.4	0.16	0.46
(2,4807)	1:57:A:LEU:H	1:28:A:PHE:HE2	20	0.4	0.16	0.46
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	20	0.4	0.15	0.38
(2,3795)	1:130:A:ALA:HB1	1:131:A:GLY:H	20	0.39	0.14	0.38
(2,3795)	1:130:A:ALA:HB1	1:60:A:PHE:HE2	20	0.39	0.14	0.38
(2,3795)	1:130:A:ALA:HB3	1:131:A:GLY:H	20	0.39	0.14	0.38
(2,3795)	1:130:A:ALA:HB3	1:60:A:PHE:HE2	20	0.39	0.14	0.38
(2,3795)	1:130:A:ALA:HB2	1:131:A:GLY:H	20	0.39	0.14	0.38
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	20	0.39	0.02	0.39
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE1	20	0.39	0.02	0.39
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	20	0.39	0.09	0.38
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG11	20	0.39	0.09	0.38
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG13	20	0.39	0.09	0.38
(2,508)	1:39:A:VAL:HG12	1:39:A:VAL:HG21	20	0.39	0.03	0.38
(2,508)	1:39:A:VAL:HG12	1:39:A:VAL:HG23	20	0.39	0.03	0.38
(2,508)	1:39:A:VAL:HG11	1:39:A:VAL:HG22	20	0.39	0.03	0.38
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG23	20	0.39	0.03	0.38
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG22	20	0.39	0.03	0.38
(2,508)	1:39:A:VAL:HG12	1:39:A:VAL:HG22	20	0.39	0.03	0.38
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG21	20	0.39	0.03	0.38
(2,508)	1:39:A:VAL:HG11	1:39:A:VAL:HG21	20	0.39	0.03	0.38
(2,508)	1:39:A:VAL:HG11	1:39:A:VAL:HG23	20	0.39	0.03	0.38
(2,2264)	1:134:A:LEU:HD13	1:133:A:PRO:HA	20	0.39	0.02	0.39
(2,2264)	1:134:A:LEU:HD11	1:133:A:PRO:HA	20	0.39	0.02	0.39

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2264)	1:134:A:LEU:HD12	1:133:A:PRO:HA	20	0.39	0.02	0.39
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD11	20	0.39	0.04	0.38
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD12	20	0.39	0.04	0.38
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD13	20	0.39	0.04	0.38
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	20	0.39	0.11	0.36
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	20	0.39	0.02	0.39
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE2	20	0.39	0.02	0.39
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG2	20	0.39	0.07	0.38
(2,4413)	1:99:A:ARG:HB2	1:99:A:ARG:HG2	20	0.39	0.07	0.38
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG3	20	0.39	0.07	0.38
(2,4801)	1:31:A:ILE:HG23	1:31:A:ILE:H	20	0.38	0.02	0.38
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	20	0.38	0.02	0.38
(2,4801)	1:31:A:ILE:HG21	1:31:A:ILE:H	20	0.38	0.02	0.38
(2,4853)	1:100:A:GLN:HG2	1:100:A:GLN:H	20	0.38	0.1	0.4
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	20	0.38	0.1	0.4
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG21	20	0.38	0.04	0.39
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG23	20	0.38	0.04	0.39
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG22	20	0.38	0.04	0.39
(2,4623)	1:134:A:LEU:HD22	1:88:A:VAL:H	20	0.38	0.07	0.35
(2,4623)	1:134:A:LEU:HD23	1:88:A:VAL:H	20	0.38	0.07	0.35
(2,4623)	1:134:A:LEU:HD21	1:88:A:VAL:H	20	0.38	0.07	0.35
(2,312)	1:92:A:LEU:HD22	1:74:A:PHE:HA	20	0.38	0.08	0.4
(2,312)	1:92:A:LEU:HD23	1:74:A:PHE:HA	20	0.38	0.08	0.4
(2,312)	1:92:A:LEU:HD21	1:74:A:PHE:HA	20	0.38	0.08	0.4
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	20	0.38	0.17	0.4
(2,4885)	1:120:A:GLN:HE21	1:117:A:GLU:HG3	20	0.38	0.17	0.4
(2,1376)	1:96:A:ALA:HB3	1:97:A:PHE:HZ	20	0.38	0.04	0.38
(2,1376)	1:96:A:ALA:HB2	1:97:A:PHE:HZ	20	0.38	0.04	0.38
(2,1376)	1:96:A:ALA:HB1	1:97:A:PHE:HZ	20	0.38	0.04	0.38
(2,2354)	1:59:A:ILE:HD12	1:60:A:PHE:HZ	20	0.37	0.03	0.37
(2,2354)	1:59:A:ILE:HD13	1:60:A:PHE:HZ	20	0.37	0.03	0.37
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	20	0.37	0.03	0.37
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	20	0.37	0.09	0.34
(2,3818)	1:128:A:LYS:HE3	1:128:A:LYS:H	20	0.37	0.09	0.34
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD11	20	0.37	0.08	0.37
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD12	20	0.37	0.08	0.37
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD13	20	0.37	0.08	0.37
(2,1336)	1:59:A:ILE:HG23	1:61:A:LYS:H	20	0.37	0.03	0.36
(2,1336)	1:59:A:ILE:HG22	1:61:A:LYS:H	20	0.37	0.03	0.36
(2,1336)	1:59:A:ILE:HG21	1:61:A:LYS:H	20	0.37	0.03	0.36
(2,1611)	1:66:A:THR:HG21	1:50:A:GLU:HB2	20	0.37	0.05	0.36
(2,1611)	1:66:A:THR:HG22	1:50:A:GLU:HB2	20	0.37	0.05	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1611)	1:66:A:THR:HG23	1:50:A:GLU:HB2	20	0.37	0.05	0.36
(2,1063)	1:159:A:ILE:HD13	1:142:A:HIS:HB3	20	0.37	0.17	0.3
(2,1063)	1:159:A:ILE:HD12	1:142:A:HIS:HB3	20	0.37	0.17	0.3
(2,1063)	1:159:A:ILE:HD11	1:142:A:HIS:HB3	20	0.37	0.17	0.3
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	20	0.37	0.01	0.37
(2,4981)	1:89:A:VAL:H	1:128:A:LYS:HB2	20	0.37	0.08	0.37
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	20	0.37	0.08	0.37
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG23	20	0.37	0.06	0.38
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG22	20	0.37	0.06	0.38
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG21	20	0.37	0.06	0.38
(2,375)	1:89:A:VAL:HG22	1:78:A:ARG:HG3	20	0.36	0.19	0.34
(2,375)	1:89:A:VAL:HG21	1:78:A:ARG:HG3	20	0.36	0.19	0.34
(2,375)	1:89:A:VAL:HG23	1:78:A:ARG:HG3	20	0.36	0.19	0.34
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG21	20	0.36	0.02	0.36
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG23	20	0.36	0.02	0.36
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG22	20	0.36	0.02	0.36
(2,4480)	1:92:A:LEU:HD11	1:76:A:TRP:H	20	0.36	0.05	0.36
(2,4480)	1:92:A:LEU:HD12	1:76:A:TRP:H	20	0.36	0.05	0.36
(2,4480)	1:92:A:LEU:HD13	1:76:A:TRP:H	20	0.36	0.05	0.36
(2,3726)	1:89:A:VAL:HG22	1:78:A:ARG:HA	20	0.36	0.08	0.36
(2,3726)	1:89:A:VAL:HG21	1:78:A:ARG:HA	20	0.36	0.08	0.36
(2,3726)	1:89:A:VAL:HG23	1:78:A:ARG:HA	20	0.36	0.08	0.36
(2,355)	1:89:A:VAL:HG13	1:129:A:VAL:H	20	0.36	0.02	0.36
(2,355)	1:89:A:VAL:HG12	1:129:A:VAL:H	20	0.36	0.02	0.36
(2,355)	1:89:A:VAL:HG11	1:129:A:VAL:H	20	0.36	0.02	0.36
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG22	20	0.36	0.05	0.36
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG21	20	0.36	0.05	0.36
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG23	20	0.36	0.05	0.36
(2,1520)	1:57:A:LEU:HD12	1:60:A:PHE:H	20	0.36	0.04	0.36
(2,1520)	1:57:A:LEU:HD11	1:60:A:PHE:H	20	0.36	0.04	0.36
(2,1520)	1:57:A:LEU:HD13	1:60:A:PHE:H	20	0.36	0.04	0.36
(2,2346)	1:88:A:VAL:HG12	1:90:A:PRO:HD2	20	0.36	0.07	0.38
(2,2346)	1:88:A:VAL:HG11	1:90:A:PRO:HD2	20	0.36	0.07	0.38
(2,2346)	1:88:A:VAL:HG13	1:90:A:PRO:HD2	20	0.36	0.07	0.38
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	20	0.36	0.13	0.33
(2,4204)	1:158:A:LYS:HD3	1:137:A:ASN:HD22	20	0.36	0.13	0.33
(2,847)	1:115:A:ILE:HD12	1:115:A:ILE:H	20	0.36	0.03	0.36
(2,847)	1:115:A:ILE:HD11	1:115:A:ILE:H	20	0.36	0.03	0.36
(2,847)	1:115:A:ILE:HD13	1:115:A:ILE:H	20	0.36	0.03	0.36
(2,1057)	1:159:A:ILE:HD13	1:159:A:ILE:H	20	0.35	0.04	0.35
(2,1057)	1:159:A:ILE:HD12	1:159:A:ILE:H	20	0.35	0.04	0.35
(2,1057)	1:159:A:ILE:HD11	1:159:A:ILE:H	20	0.35	0.04	0.35

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4021)	1:18:A:LEU:HD11	1:18:A:LEU:HG	20	0.35	0.01	0.36
(2,4021)	1:11:A:LEU:HG	1:11:A:LEU:HD13	20	0.35	0.01	0.36
(2,4021)	1:18:A:LEU:HD13	1:18:A:LEU:HG	20	0.35	0.01	0.36
(2,4021)	1:18:A:LEU:HD12	1:18:A:LEU:HG	20	0.35	0.01	0.36
(2,4021)	1:11:A:LEU:HG	1:11:A:LEU:HD11	20	0.35	0.01	0.36
(2,4158)	1:57:A:LEU:HD12	1:57:A:LEU:HA	20	0.35	0.02	0.35
(2,4158)	1:57:A:LEU:HD13	1:57:A:LEU:HA	20	0.35	0.02	0.35
(2,4158)	1:57:A:LEU:HD11	1:57:A:LEU:HA	20	0.35	0.02	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG23	20	0.35	0.01	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG22	20	0.35	0.01	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG21	20	0.35	0.01	0.35
(2,2307)	1:41:A:VAL:HG21	1:44:A:GLY:H	20	0.35	0.11	0.38
(2,2307)	1:41:A:VAL:HG23	1:44:A:GLY:H	20	0.35	0.11	0.38
(2,2307)	1:41:A:VAL:HG22	1:44:A:GLY:H	20	0.35	0.11	0.38
(2,2228)	1:89:A:VAL:HG22	1:82:A:GLU:HB2	20	0.34	0.03	0.34
(2,2228)	1:89:A:VAL:HG21	1:82:A:GLU:HB2	20	0.34	0.03	0.34
(2,2228)	1:89:A:VAL:HG23	1:82:A:GLU:HB2	20	0.34	0.03	0.34
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	20	0.34	0.02	0.35
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG13	20	0.34	0.01	0.34
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG11	20	0.34	0.01	0.34
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG12	20	0.34	0.01	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	20	0.34	0.01	0.34
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD21	20	0.33	0.02	0.34
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD22	20	0.33	0.02	0.34
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD23	20	0.33	0.02	0.34
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE2	20	0.33	0.06	0.34
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	20	0.33	0.06	0.34
(2,4183)	1:129:A:VAL:HG11	1:141:A:LEU:HD11	20	0.33	0.09	0.35
(2,4183)	1:129:A:VAL:HG11	1:141:A:LEU:HD13	20	0.33	0.09	0.35
(2,4183)	1:129:A:VAL:HG12	1:141:A:LEU:HD11	20	0.33	0.09	0.35
(2,4183)	1:129:A:VAL:HG12	1:141:A:LEU:HD12	20	0.33	0.09	0.35
(2,4183)	1:129:A:VAL:HG12	1:141:A:LEU:HD13	20	0.33	0.09	0.35
(2,4183)	1:129:A:VAL:HG11	1:141:A:LEU:HD12	20	0.33	0.09	0.35
(2,4183)	1:129:A:VAL:HG13	1:141:A:LEU:HD13	20	0.33	0.09	0.35
(2,4183)	1:129:A:VAL:HG13	1:141:A:LEU:HD11	20	0.33	0.09	0.35
(2,4183)	1:129:A:VAL:HG13	1:141:A:LEU:HD12	20	0.33	0.09	0.35
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	20	0.33	0.09	0.32
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB2	20	0.33	0.02	0.34
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB1	20	0.33	0.02	0.34
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB3	20	0.33	0.02	0.34
(2,1360)	1:6:A:ALA:HB3	1:6:A:ALA:HA	20	0.33	0.01	0.33
(2,1360)	1:6:A:ALA:HB1	1:6:A:ALA:HA	20	0.33	0.01	0.33

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1360)	1:6:A:ALA:HB2	1:6:A:ALA:HA	20	0.33	0.01	0.33
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD23	20	0.33	0.04	0.35
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD21	20	0.33	0.04	0.35
(2,4022)	1:11:A:LEU:HG	1:11:A:LEU:HD23	20	0.33	0.04	0.35
(2,4022)	1:18:A:LEU:HD21	1:18:A:LEU:HG	20	0.33	0.04	0.35
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD22	20	0.33	0.04	0.35
(2,4022)	1:11:A:LEU:HG	1:11:A:LEU:HD21	20	0.33	0.04	0.35
(2,4022)	1:18:A:LEU:HD23	1:18:A:LEU:HG	20	0.33	0.04	0.35
(2,4022)	1:18:A:LEU:HD22	1:18:A:LEU:HG	20	0.33	0.04	0.35
(2,4022)	1:11:A:LEU:HG	1:11:A:LEU:HD22	20	0.33	0.04	0.35
(2,863)	1:115:A:ILE:HD12	1:114:A:PHE:HB3	20	0.33	0.08	0.34
(2,863)	1:115:A:ILE:HD11	1:114:A:PHE:HB3	20	0.33	0.08	0.34
(2,863)	1:115:A:ILE:HD13	1:114:A:PHE:HB3	20	0.33	0.08	0.34
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	20	0.33	0.03	0.33
(2,4259)	1:63:A:LYS:HD2	1:63:A:LYS:HE3	20	0.33	0.03	0.33
(2,4259)	1:63:A:LYS:HD2	1:63:A:LYS:HE2	20	0.33	0.03	0.33
(2,2086)	1:8:A:THR:HG22	1:8:A:THR:HB	20	0.33	0.01	0.33
(2,2086)	1:8:A:THR:HG23	1:8:A:THR:HB	20	0.33	0.01	0.33
(2,2086)	1:8:A:THR:HG21	1:8:A:THR:HB	20	0.33	0.01	0.33
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	20	0.33	0.04	0.34
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	20	0.32	0.02	0.32
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG2	20	0.32	0.02	0.32
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	20	0.32	0.1	0.3
(2,3826)	1:14:A:LYS:HE2	1:14:A:LYS:HG2	20	0.32	0.1	0.3
(2,3826)	1:128:A:LYS:HE3	1:128:A:LYS:HG3	20	0.32	0.1	0.3
(2,1277)	1:126:A:ILE:HD11	1:126:A:ILE:H	20	0.32	0.02	0.32
(2,1277)	1:126:A:ILE:HD12	1:126:A:ILE:H	20	0.32	0.02	0.32
(2,1277)	1:126:A:ILE:HD13	1:126:A:ILE:H	20	0.32	0.02	0.32
(2,1355)	1:51:A:ILE:HG22	1:32:A:ASP:H	20	0.32	0.03	0.32
(2,1355)	1:51:A:ILE:HG23	1:32:A:ASP:H	20	0.32	0.03	0.32
(2,1355)	1:51:A:ILE:HG21	1:32:A:ASP:H	20	0.32	0.03	0.32
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	20	0.32	0.13	0.25
(2,539)	1:143:A:MET:HE3	1:154:A:TYR:H	20	0.32	0.1	0.34
(2,539)	1:143:A:MET:HE1	1:154:A:TYR:H	20	0.32	0.1	0.34
(2,539)	1:143:A:MET:HE2	1:154:A:TYR:H	20	0.32	0.1	0.34
(2,1103)	1:57:A:LEU:HD23	1:27:A:ASN:HB3	20	0.32	0.06	0.32
(2,1103)	1:57:A:LEU:HD22	1:27:A:ASN:HB3	20	0.32	0.06	0.32
(2,1103)	1:57:A:LEU:HD21	1:27:A:ASN:HB3	20	0.32	0.06	0.32
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	20	0.32	0.11	0.32
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD2	20	0.32	0.11	0.32
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	20	0.31	0.02	0.31
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG22	20	0.31	0.04	0.32

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG23	20	0.31	0.04	0.32
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG21	20	0.31	0.04	0.32
(2,1233)	1:81:A:LEU:HD11	1:81:A:LEU:H	20	0.31	0.04	0.31
(2,1233)	1:81:A:LEU:HD13	1:81:A:LEU:H	20	0.31	0.04	0.31
(2,1233)	1:81:A:LEU:HD12	1:81:A:LEU:H	20	0.31	0.04	0.31
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	20	0.31	0.08	0.3
(2,3684)	1:155:A:THR:HG23	1:156:A:PRO:HD2	20	0.31	0.03	0.31
(2,3684)	1:155:A:THR:HG21	1:156:A:PRO:HD2	20	0.31	0.03	0.31
(2,3684)	1:155:A:THR:HG22	1:156:A:PRO:HD2	20	0.31	0.03	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB2	20	0.31	0.01	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB3	20	0.31	0.01	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB1	20	0.31	0.01	0.31
(2,4110)	1:96:A:ALA:HB3	1:97:A:PHE:HB3	20	0.31	0.06	0.31
(2,4110)	1:96:A:ALA:HB2	1:97:A:PHE:HB3	20	0.31	0.06	0.31
(2,4110)	1:96:A:ALA:HB1	1:97:A:PHE:HB3	20	0.31	0.06	0.31
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	20	0.31	0.07	0.3
(2,1392)	1:162:A:ALA:HB2	1:162:A:ALA:HA	20	0.31	0.01	0.31
(2,1392)	1:162:A:ALA:HB3	1:162:A:ALA:HA	20	0.31	0.01	0.31
(2,1392)	1:162:A:ALA:HB1	1:162:A:ALA:HA	20	0.31	0.01	0.31
(2,1919)	1:33:A:VAL:HG21	1:49:A:TYR:HB2	20	0.3	0.12	0.28
(2,1919)	1:33:A:VAL:HG22	1:49:A:TYR:HB2	20	0.3	0.12	0.28
(2,1919)	1:33:A:VAL:HG23	1:49:A:TYR:HB2	20	0.3	0.12	0.28
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	20	0.3	0.07	0.29
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	20	0.3	0.09	0.31
(2,427)	1:13:A:THR:HG22	1:13:A:THR:HB	20	0.3	0.01	0.3
(2,427)	1:13:A:THR:HG23	1:13:A:THR:HB	20	0.3	0.01	0.3
(2,427)	1:13:A:THR:HG21	1:13:A:THR:HB	20	0.3	0.01	0.3
(2,542)	1:143:A:MET:HE3	1:154:A:TYR:HE1	20	0.3	0.09	0.29
(2,542)	1:143:A:MET:HE1	1:154:A:TYR:HE1	20	0.3	0.09	0.29
(2,542)	1:143:A:MET:HE2	1:154:A:TYR:HE1	20	0.3	0.09	0.29
(2,1276)	1:115:A:ILE:HD13	1:114:A:PHE:HD2	20	0.3	0.06	0.3
(2,1276)	1:115:A:ILE:HD11	1:114:A:PHE:HD2	20	0.3	0.06	0.3
(2,1276)	1:115:A:ILE:HD12	1:114:A:PHE:HD2	20	0.3	0.06	0.3
(2,1276)	1:115:A:ILE:HD12	1:114:A:PHE:HD1	20	0.3	0.06	0.3
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD13	20	0.3	0.08	0.3
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD11	20	0.3	0.08	0.3
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD12	20	0.3	0.08	0.3
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD22	20	0.3	0.08	0.3
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	20	0.3	0.02	0.29
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	20	0.29	0.02	0.3
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	20	0.29	0.07	0.31
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG22	20	0.29	0.01	0.29

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG21	20	0.29	0.01	0.29
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG23	20	0.29	0.01	0.29
(2,1590)	1:129:A:VAL:HG21	1:141:A:LEU:HD11	20	0.29	0.05	0.3
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD11	20	0.29	0.05	0.3
(2,1590)	1:129:A:VAL:HG23	1:141:A:LEU:HD13	20	0.29	0.05	0.3
(2,1590)	1:129:A:VAL:HG23	1:141:A:LEU:HD11	20	0.29	0.05	0.3
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD12	20	0.29	0.05	0.3
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD13	20	0.29	0.05	0.3
(2,1590)	1:129:A:VAL:HG21	1:141:A:LEU:HD13	20	0.29	0.05	0.3
(2,1590)	1:129:A:VAL:HG21	1:141:A:LEU:HD12	20	0.29	0.05	0.3
(2,1590)	1:129:A:VAL:HG23	1:141:A:LEU:HD12	20	0.29	0.05	0.3
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	20	0.29	0.1	0.26
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD13	20	0.29	0.1	0.28
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD11	20	0.29	0.1	0.28
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD12	20	0.29	0.1	0.28
(2,4401)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	20	0.28	0.03	0.29
(2,4401)	1:9:A:ARG:HD2	1:9:A:ARG:HG2	20	0.28	0.03	0.29
(2,4401)	1:9:A:ARG:HD2	1:9:A:ARG:HG3	20	0.28	0.03	0.29
(2,4401)	1:9:A:ARG:HD3	1:9:A:ARG:HG2	20	0.28	0.03	0.29
(2,4401)	1:10:A:ARG:HD3	1:10:A:ARG:HG3	20	0.28	0.03	0.29
(2,4446)	1:41:A:VAL:HG23	1:41:A:VAL:HB	20	0.28	0.01	0.28
(2,4446)	1:41:A:VAL:HG22	1:41:A:VAL:HB	20	0.28	0.01	0.28
(2,4446)	1:41:A:VAL:HB	1:41:A:VAL:HG13	20	0.28	0.01	0.28
(2,4446)	1:41:A:VAL:HB	1:41:A:VAL:HG11	20	0.28	0.01	0.28
(2,4446)	1:41:A:VAL:HG21	1:41:A:VAL:HB	20	0.28	0.01	0.28
(2,4446)	1:41:A:VAL:HB	1:41:A:VAL:HG12	20	0.28	0.01	0.28
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	20	0.28	0.07	0.3
(2,310)	1:92:A:LEU:HD23	1:92:A:LEU:H	20	0.28	0.06	0.29
(2,310)	1:92:A:LEU:HD21	1:92:A:LEU:H	20	0.28	0.06	0.29
(2,310)	1:92:A:LEU:HD22	1:92:A:LEU:H	20	0.28	0.06	0.29
(2,1384)	1:135:A:ALA:HB2	1:137:A:ASN:H	20	0.28	0.04	0.27
(2,1384)	1:135:A:ALA:HB3	1:137:A:ASN:H	20	0.28	0.04	0.27
(2,1384)	1:135:A:ALA:HB1	1:137:A:ASN:H	20	0.28	0.04	0.27
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	20	0.28	0.04	0.27
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	20	0.27	0.03	0.26
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE1	20	0.27	0.03	0.26
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG2	20	0.27	0.1	0.33
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	20	0.27	0.1	0.33
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	20	0.27	0.07	0.29
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	20	0.27	0.03	0.27
(2,2938)	1:4:A:THR:HG22	1:5:A:VAL:H	20	0.27	0.04	0.27
(2,2938)	1:4:A:THR:HG21	1:5:A:VAL:H	20	0.27	0.04	0.27

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2938)	1:4:A:THR:HG23	1:5:A:VAL:H	20	0.27	0.04	0.27
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	20	0.27	0.04	0.28
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	20	0.26	0.04	0.27
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	20	0.26	0.05	0.26
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	20	0.26	0.04	0.26
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD13	20	0.26	0.02	0.26
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD12	20	0.26	0.02	0.26
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD11	20	0.26	0.02	0.26
(2,1489)	1:29:A:LEU:HD11	1:55:A:THR:HA	20	0.26	0.08	0.28
(2,1489)	1:29:A:LEU:HD12	1:55:A:THR:HA	20	0.26	0.08	0.28
(2,1489)	1:29:A:LEU:HD13	1:55:A:THR:HA	20	0.26	0.08	0.28
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	20	0.26	0.07	0.26
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	20	0.26	0.04	0.26
(2,413)	1:87:A:VAL:HG23	1:134:A:LEU:H	20	0.26	0.02	0.26
(2,413)	1:87:A:VAL:HG21	1:134:A:LEU:H	20	0.26	0.02	0.26
(2,413)	1:87:A:VAL:HG22	1:134:A:LEU:H	20	0.26	0.02	0.26
(2,2095)	1:134:A:LEU:HD22	1:88:A:VAL:H	20	0.26	0.08	0.22
(2,2095)	1:134:A:LEU:HD23	1:88:A:VAL:H	20	0.26	0.08	0.22
(2,2095)	1:134:A:LEU:HD21	1:88:A:VAL:H	20	0.26	0.08	0.22
(2,608)	1:129:A:VAL:HG12	1:126:A:ILE:HA	20	0.25	0.03	0.26
(2,608)	1:129:A:VAL:HG13	1:126:A:ILE:HA	20	0.25	0.03	0.26
(2,608)	1:129:A:VAL:HG11	1:126:A:ILE:HA	20	0.25	0.03	0.26
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	20	0.25	0.01	0.25
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	20	0.25	0.07	0.23
(2,4702)	1:64:A:GLU:HB2	1:64:A:GLU:H	20	0.25	0.07	0.23
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG12	20	0.25	0.01	0.25
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG11	20	0.25	0.01	0.25
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG13	20	0.25	0.01	0.25
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	20	0.25	0.01	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD13	20	0.25	0.01	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD11	20	0.25	0.01	0.24
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	20	0.24	0.09	0.22
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD1	20	0.24	0.09	0.22
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	20	0.24	0.02	0.25
(2,1351)	1:51:A:ILE:HG23	1:66:A:THR:HA	20	0.24	0.03	0.24
(2,1351)	1:51:A:ILE:HG21	1:66:A:THR:HA	20	0.24	0.03	0.24
(2,1351)	1:51:A:ILE:HG22	1:66:A:THR:HA	20	0.24	0.03	0.24
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	20	0.24	0.08	0.24
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	20	0.24	0.09	0.21
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	20	0.24	0.04	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD22	20	0.24	0.01	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD21	20	0.24	0.01	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD23	20	0.24	0.01	0.24
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG21	20	0.24	0.02	0.24
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG22	20	0.24	0.02	0.24
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG23	20	0.24	0.02	0.24
(2,4405)	1:4:A:THR:HB	1:4:A:THR:HG22	20	0.24	0.02	0.24
(2,4405)	1:4:A:THR:HB	1:4:A:THR:HG23	20	0.24	0.02	0.24
(2,4018)	1:101:A:LEU:HD11	1:101:A:LEU:HB3	20	0.23	0.03	0.24
(2,4018)	1:101:A:LEU:HD12	1:101:A:LEU:HB3	20	0.23	0.03	0.24
(2,4018)	1:101:A:LEU:HD13	1:101:A:LEU:HB3	20	0.23	0.03	0.24
(2,4018)	1:11:A:LEU:HB2	1:11:A:LEU:HD21	20	0.23	0.03	0.24
(2,4018)	1:11:A:LEU:HB2	1:11:A:LEU:HD22	20	0.23	0.03	0.24
(2,4018)	1:11:A:LEU:HB2	1:11:A:LEU:HD23	20	0.23	0.03	0.24
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG23	20	0.23	0.03	0.23
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG21	20	0.23	0.03	0.23
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG22	20	0.23	0.03	0.23
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	20	0.23	0.05	0.24
(2,1212)	1:29:A:LEU:HD13	1:57:A:LEU:H	20	0.23	0.03	0.24
(2,1212)	1:29:A:LEU:HD11	1:57:A:LEU:H	20	0.23	0.03	0.24
(2,1212)	1:29:A:LEU:HD12	1:57:A:LEU:H	20	0.23	0.03	0.24
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	20	0.23	0.01	0.23
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	20	0.23	0.01	0.23
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD11	20	0.22	0.02	0.23
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD12	20	0.22	0.02	0.23
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD13	20	0.22	0.02	0.23
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	20	0.22	0.04	0.22
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	20	0.22	0.01	0.22
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG21	20	0.22	0.04	0.22
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG22	20	0.22	0.04	0.22
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG23	20	0.22	0.04	0.22
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	20	0.22	0.03	0.23
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	20	0.22	0.05	0.21
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	20	0.22	0.0	0.22
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	20	0.22	0.03	0.22
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE1	20	0.22	0.03	0.22
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG21	20	0.22	0.03	0.22
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG22	20	0.22	0.03	0.22
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG23	20	0.22	0.03	0.22
(2,1391)	1:41:A:VAL:HG23	1:41:A:VAL:HB	20	0.22	0.01	0.22
(2,1391)	1:41:A:VAL:HG22	1:41:A:VAL:HB	20	0.22	0.01	0.22
(2,1391)	1:41:A:VAL:HG21	1:41:A:VAL:HB	20	0.22	0.01	0.22
(2,4082)	1:126:A:ILE:HD11	1:129:A:VAL:H	20	0.22	0.05	0.22
(2,4082)	1:126:A:ILE:HD12	1:129:A:VAL:H	20	0.22	0.05	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4082)	1:126:A:ILE:HD13	1:129:A:VAL:H	20	0.22	0.05	0.22
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	20	0.22	0.02	0.21
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	20	0.22	0.02	0.21
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD13	20	0.22	0.02	0.21
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	20	0.21	0.04	0.22
(2,596)	1:129:A:VAL:HG12	1:128:A:LYS:H	20	0.21	0.04	0.22
(2,596)	1:129:A:VAL:HG13	1:128:A:LYS:H	20	0.21	0.04	0.22
(2,596)	1:129:A:VAL:HG11	1:128:A:LYS:H	20	0.21	0.04	0.22
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	20	0.21	0.01	0.21
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	20	0.21	0.02	0.22
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	20	0.21	0.0	0.21
(2,488)	1:126:A:ILE:HG23	1:126:A:ILE:HA	20	0.2	0.01	0.2
(2,488)	1:126:A:ILE:HG21	1:126:A:ILE:HA	20	0.2	0.01	0.2
(2,488)	1:126:A:ILE:HG22	1:126:A:ILE:HA	20	0.2	0.01	0.2
(2,619)	1:129:A:VAL:HG11	1:129:A:VAL:HG23	20	0.2	0.02	0.2
(2,619)	1:129:A:VAL:HG11	1:129:A:VAL:HG21	20	0.2	0.02	0.2
(2,619)	1:129:A:VAL:HG11	1:129:A:VAL:HG22	20	0.2	0.02	0.2
(2,619)	1:129:A:VAL:HG12	1:129:A:VAL:HG22	20	0.2	0.02	0.2
(2,619)	1:129:A:VAL:HG12	1:129:A:VAL:HG21	20	0.2	0.02	0.2
(2,619)	1:129:A:VAL:HG13	1:129:A:VAL:HG23	20	0.2	0.02	0.2
(2,619)	1:129:A:VAL:HG13	1:129:A:VAL:HG21	20	0.2	0.02	0.2
(2,619)	1:129:A:VAL:HG13	1:129:A:VAL:HG22	20	0.2	0.02	0.2
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	20	0.2	0.06	0.18
(2,4310)	1:10:A:ARG:HG2	1:10:A:ARG:HD2	20	0.2	0.06	0.18
(2,1324)	1:12:A:ILE:HG22	1:12:A:ILE:HB	20	0.19	0.02	0.2
(2,1324)	1:12:A:ILE:HG21	1:12:A:ILE:HB	20	0.19	0.02	0.2
(2,1324)	1:12:A:ILE:HG23	1:12:A:ILE:HB	20	0.19	0.02	0.2
(2,1929)	1:141:A:LEU:HD21	1:138:A:GLU:H	20	0.19	0.04	0.18
(2,1929)	1:141:A:LEU:HD23	1:138:A:GLU:H	20	0.19	0.04	0.18
(2,1929)	1:141:A:LEU:HD22	1:138:A:GLU:H	20	0.19	0.04	0.18
(2,3170)	1:38:A:THR:HG21	1:38:A:THR:H	20	0.18	0.02	0.18
(2,3170)	1:38:A:THR:HG22	1:38:A:THR:H	20	0.18	0.02	0.18
(2,3170)	1:38:A:THR:HG23	1:38:A:THR:H	20	0.18	0.02	0.18
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	20	0.17	0.01	0.17
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	20	0.17	0.01	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	20	0.17	0.0	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	20	0.17	0.0	0.17
(2,3698)	1:17:A:ASN:HB3	1:17:A:ASN:HB2	20	0.17	0.0	0.17
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	20	0.16	0.01	0.16
(2,1137)	1:59:A:ILE:HD13	1:59:A:ILE:HB	20	0.16	0.02	0.16
(2,1137)	1:59:A:ILE:HD11	1:59:A:ILE:HB	20	0.16	0.02	0.16
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	20	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1319)	1:149:A:ILE:HG22	1:149:A:ILE:HB	20	0.16	0.02	0.16
(2,1319)	1:149:A:ILE:HG23	1:149:A:ILE:HB	20	0.16	0.02	0.16
(2,1319)	1:149:A:ILE:HG21	1:149:A:ILE:HB	20	0.16	0.02	0.16
(2,1406)	1:39:A:VAL:HG22	1:39:A:VAL:HA	20	0.15	0.03	0.14
(2,1406)	1:39:A:VAL:HG21	1:39:A:VAL:HA	20	0.15	0.03	0.14
(2,1406)	1:39:A:VAL:HG23	1:39:A:VAL:HA	20	0.15	0.03	0.14
(2,4546)	1:129:A:VAL:HG13	1:88:A:VAL:HA	20	0.15	0.02	0.15
(2,4546)	1:129:A:VAL:HG12	1:130:A:ALA:HA	20	0.15	0.02	0.15
(2,4546)	1:129:A:VAL:HG13	1:130:A:ALA:HA	20	0.15	0.02	0.15
(2,4546)	1:129:A:VAL:HG11	1:130:A:ALA:HA	20	0.15	0.02	0.15
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	20	0.14	0.01	0.14
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	20	0.14	0.02	0.14
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	20	0.14	0.02	0.14
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	20	0.13	0.01	0.13
(2,3978)	1:99:A:ARG:HB3	1:99:A:ARG:HB2	20	0.13	0.01	0.13
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	20	0.12	0.02	0.12
(2,4208)	1:158:A:LYS:HD2	1:158:A:LYS:HG3	20	0.12	0.02	0.12
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	19	1.03	0.36	1.18
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HB2	19	1.03	0.36	1.18
(2,2370)	1:145:A:LEU:HD22	1:136:A:GLN:HE22	19	1.03	0.68	0.91
(2,2370)	1:145:A:LEU:HD21	1:136:A:GLN:HE22	19	1.03	0.68	0.91
(2,2370)	1:145:A:LEU:HD23	1:136:A:GLN:HE22	19	1.03	0.68	0.91
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	19	0.96	0.29	1.04
(2,4883)	1:120:A:GLN:HE22	1:116:A:GLU:HB2	19	0.96	0.29	1.04
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	19	0.89	0.31	0.89
(2,4267)	1:52:A:ARG:HD2	1:33:A:VAL:HA	19	0.89	0.31	0.89
(2,4267)	1:52:A:ARG:HD2	1:66:A:THR:HA	19	0.89	0.31	0.89
(2,461)	1:48:A:THR:HG22	1:68:A:ARG:HG2	19	0.81	0.79	0.36
(2,461)	1:48:A:THR:HG21	1:68:A:ARG:HG2	19	0.81	0.79	0.36
(2,461)	1:48:A:THR:HG23	1:68:A:ARG:HG2	19	0.81	0.79	0.36
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD2	19	0.79	0.18	0.79
(2,4943)	1:140:A:CYS:H	1:161:A:HIS:HD2	19	0.79	0.18	0.79
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD1	19	0.79	0.18	0.79
(2,4550)	1:34:A:SER:HB2	1:52:A:ARG:HD3	19	0.76	0.19	0.77
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	19	0.76	0.19	0.77
(2,4550)	1:34:A:SER:HB2	1:52:A:ARG:HD2	19	0.76	0.19	0.77
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	19	0.75	0.09	0.72
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	19	0.75	0.67	0.21
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	19	0.73	0.44	1.05
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	19	0.72	0.43	0.65
(2,4260)	1:55:A:THR:HG22	1:63:A:LYS:HE3	19	0.7	0.14	0.68
(2,4260)	1:55:A:THR:HG23	1:63:A:LYS:HE3	19	0.7	0.14	0.68

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4260)	1:55:A:THR:HG21	1:63:A:LYS:HE3	19	0.7	0.14	0.68
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	19	0.7	0.23	0.74
(2,4847)	1:76:A:TRP:H	1:71:A:TYR:HD1	19	0.7	0.23	0.74
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE1	19	0.69	0.16	0.72
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE2	19	0.69	0.16	0.72
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE3	19	0.69	0.16	0.72
(2,3940)	1:115:A:ILE:HD13	1:109:A:ILE:HA	19	0.66	0.27	0.59
(2,3940)	1:115:A:ILE:HD12	1:109:A:ILE:HA	19	0.66	0.27	0.59
(2,3940)	1:115:A:ILE:HD13	1:110:A:PHE:HB3	19	0.66	0.27	0.59
(2,3940)	1:115:A:ILE:HD11	1:109:A:ILE:HA	19	0.66	0.27	0.59
(2,3940)	1:115:A:ILE:HD12	1:110:A:PHE:HB3	19	0.66	0.27	0.59
(2,3940)	1:115:A:ILE:HD11	1:110:A:PHE:HB3	19	0.66	0.27	0.59
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	19	0.64	0.23	0.65
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	19	0.64	0.24	0.65
(2,4027)	1:152:A:LYS:HE3	1:76:A:TRP:H	19	0.64	0.24	0.65
(2,4027)	1:152:A:LYS:HE3	1:77:A:LEU:H	19	0.64	0.24	0.65
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	19	0.63	0.33	0.81
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD13	19	0.63	0.14	0.68
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD11	19	0.63	0.14	0.68
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	19	0.63	0.14	0.68
(2,2410)	1:109:A:ILE:HG23	1:114:A:PHE:HB2	19	0.51	0.09	0.52
(2,2410)	1:109:A:ILE:HG21	1:114:A:PHE:HB2	19	0.51	0.09	0.52
(2,2410)	1:109:A:ILE:HG22	1:114:A:PHE:HB2	19	0.51	0.09	0.52
(2,4182)	1:141:A:LEU:HD13	1:143:A:MET:HG2	19	0.5	0.28	0.45
(2,4182)	1:141:A:LEU:HD12	1:143:A:MET:HG2	19	0.5	0.28	0.45
(2,4182)	1:141:A:LEU:HD11	1:143:A:MET:HG2	19	0.5	0.28	0.45
(2,4182)	1:136:A:GLN:HG2	1:141:A:LEU:HD13	19	0.5	0.28	0.45
(2,4182)	1:136:A:GLN:HG2	1:141:A:LEU:HD11	19	0.5	0.28	0.45
(2,3943)	1:115:A:ILE:HD12	1:112:A:ASP:HB2	19	0.5	0.25	0.49
(2,3943)	1:115:A:ILE:HD11	1:112:A:ASP:HB2	19	0.5	0.25	0.49
(2,3943)	1:115:A:ILE:HD13	1:112:A:ASP:HB2	19	0.5	0.25	0.49
(2,4714)	1:101:A:LEU:HD23	1:101:A:LEU:H	19	0.47	0.11	0.48
(2,4714)	1:101:A:LEU:HD21	1:101:A:LEU:H	19	0.47	0.11	0.48
(2,4714)	1:101:A:LEU:HD22	1:101:A:LEU:H	19	0.47	0.11	0.48
(2,4714)	1:101:A:LEU:HD13	1:101:A:LEU:H	19	0.47	0.11	0.48
(2,4714)	1:101:A:LEU:HD11	1:101:A:LEU:H	19	0.47	0.11	0.48
(2,4727)	1:33:A:VAL:HG22	1:50:A:GLU:H	19	0.47	0.18	0.47
(2,4727)	1:33:A:VAL:HG21	1:50:A:GLU:H	19	0.47	0.18	0.47
(2,4727)	1:33:A:VAL:HG23	1:50:A:GLU:H	19	0.47	0.18	0.47
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	19	0.46	0.14	0.44
(2,4713)	1:143:A:MET:HE1	1:141:A:LEU:H	19	0.46	0.14	0.44
(2,1147)	1:122:A:LEU:HD11	1:93:A:PRO:HB3	19	0.46	0.16	0.46

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1147)	1:122:A:LEU:HD13	1:93:A:PRO:HB3	19	0.46	0.16	0.46
(2,1147)	1:122:A:LEU:HD12	1:93:A:PRO:HB3	19	0.46	0.16	0.46
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD11	19	0.44	0.07	0.45
(2,495)	1:126:A:ILE:HG23	1:31:A:ILE:HD13	19	0.44	0.07	0.45
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD12	19	0.44	0.07	0.45
(2,495)	1:126:A:ILE:HG21	1:31:A:ILE:HD11	19	0.44	0.07	0.45
(2,495)	1:126:A:ILE:HG21	1:31:A:ILE:HD13	19	0.44	0.07	0.45
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD13	19	0.44	0.07	0.45
(2,495)	1:126:A:ILE:HG23	1:31:A:ILE:HD12	19	0.44	0.07	0.45
(2,495)	1:126:A:ILE:HG23	1:31:A:ILE:HD11	19	0.44	0.07	0.45
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	19	0.43	0.08	0.41
(2,4683)	1:137:A:ASN:H	1:132:A:HIS:HD2	19	0.43	0.08	0.41
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	19	0.43	0.16	0.44
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG3	19	0.43	0.16	0.44
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	19	0.4	0.12	0.41
(2,4696)	1:45:A:ARG:H	1:46:A:PHE:HD1	19	0.4	0.12	0.41
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG21	19	0.39	0.15	0.4
(2,3775)	1:126:A:ILE:HG23	1:31:A:ILE:HG23	19	0.39	0.15	0.4
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG22	19	0.39	0.15	0.4
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG23	19	0.39	0.15	0.4
(2,3775)	1:126:A:ILE:HG23	1:31:A:ILE:HG22	19	0.39	0.15	0.4
(2,3775)	1:126:A:ILE:HG21	1:31:A:ILE:HG22	19	0.39	0.15	0.4
(2,3775)	1:126:A:ILE:HG21	1:31:A:ILE:HG23	19	0.39	0.15	0.4
(2,3775)	1:126:A:ILE:HG23	1:31:A:ILE:HG21	19	0.39	0.15	0.4
(2,2212)	1:77:A:LEU:HD12	1:144:A:PHE:HZ	19	0.39	0.31	0.34
(2,2212)	1:77:A:LEU:HD11	1:144:A:PHE:HZ	19	0.39	0.31	0.34
(2,2212)	1:77:A:LEU:HD13	1:144:A:PHE:HZ	19	0.39	0.31	0.34
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	19	0.38	0.19	0.29
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	19	0.37	0.09	0.4
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD23	19	0.37	0.07	0.37
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD22	19	0.37	0.07	0.37
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD21	19	0.37	0.07	0.37
(2,4335)	1:59:A:ILE:HG22	1:141:A:LEU:HB3	19	0.37	0.12	0.38
(2,4335)	1:59:A:ILE:HG21	1:141:A:LEU:HB3	19	0.37	0.12	0.38
(2,4335)	1:59:A:ILE:HG23	1:141:A:LEU:HB3	19	0.37	0.12	0.38
(2,4335)	1:77:A:LEU:HD23	1:141:A:LEU:HB3	19	0.37	0.12	0.38
(2,4335)	1:81:A:LEU:HD21	1:141:A:LEU:HB3	19	0.37	0.12	0.38
(2,4335)	1:77:A:LEU:HD21	1:141:A:LEU:HB3	19	0.37	0.12	0.38
(2,4335)	1:77:A:LEU:HD22	1:141:A:LEU:HB3	19	0.37	0.12	0.38
(2,1525)	1:57:A:LEU:HD13	1:29:A:LEU:HA	19	0.36	0.06	0.35
(2,1525)	1:57:A:LEU:HD11	1:29:A:LEU:HA	19	0.36	0.06	0.35
(2,1525)	1:57:A:LEU:HD12	1:29:A:LEU:HA	19	0.36	0.06	0.35

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	19	0.36	0.1	0.35
(2,3622)	1:108:A:GLY:HA3	1:109:A:ILE:HG12	19	0.36	0.1	0.35
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	19	0.35	0.21	0.41
(2,3505)	1:39:A:VAL:HG11	1:37:A:GLN:HE22	19	0.35	0.12	0.31
(2,3505)	1:39:A:VAL:HG13	1:37:A:GLN:HE22	19	0.35	0.12	0.31
(2,3505)	1:39:A:VAL:HG12	1:37:A:GLN:HE22	19	0.35	0.12	0.31
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	19	0.34	0.16	0.33
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD2	19	0.34	0.16	0.33
(2,4733)	1:111:A:ASP:H	1:114:A:PHE:HE2	19	0.34	0.16	0.33
(2,1357)	1:51:A:ILE:HG22	1:34:A:SER:H	19	0.34	0.13	0.32
(2,1357)	1:51:A:ILE:HG23	1:34:A:SER:H	19	0.34	0.13	0.32
(2,1357)	1:51:A:ILE:HG21	1:34:A:SER:H	19	0.34	0.13	0.32
(2,2231)	1:81:A:LEU:HD13	1:89:A:VAL:HG21	19	0.32	0.09	0.36
(2,2231)	1:81:A:LEU:HD11	1:89:A:VAL:HG22	19	0.32	0.09	0.36
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG21	19	0.32	0.09	0.36
(2,2231)	1:81:A:LEU:HD11	1:89:A:VAL:HG23	19	0.32	0.09	0.36
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG23	19	0.32	0.09	0.36
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG22	19	0.32	0.09	0.36
(2,2231)	1:81:A:LEU:HD13	1:89:A:VAL:HG22	19	0.32	0.09	0.36
(2,2231)	1:81:A:LEU:HD13	1:89:A:VAL:HG23	19	0.32	0.09	0.36
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	19	0.31	0.1	0.35
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD21	19	0.31	0.24	0.24
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD22	19	0.31	0.24	0.24
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD23	19	0.31	0.24	0.24
(2,1328)	1:115:A:ILE:HG21	1:114:A:PHE:HE2	19	0.31	0.1	0.3
(2,1328)	1:115:A:ILE:HG23	1:114:A:PHE:HE2	19	0.31	0.1	0.3
(2,1328)	1:115:A:ILE:HG22	1:114:A:PHE:HE2	19	0.31	0.1	0.3
(2,1328)	1:115:A:ILE:HG22	1:114:A:PHE:HE1	19	0.31	0.1	0.3
(2,3703)	1:92:A:LEU:HD12	1:75:A:GLU:HG3	19	0.3	0.09	0.33
(2,3703)	1:92:A:LEU:HD12	1:78:A:ARG:HB2	19	0.3	0.09	0.33
(2,3703)	1:92:A:LEU:HD13	1:78:A:ARG:HB2	19	0.3	0.09	0.33
(2,3703)	1:92:A:LEU:HD11	1:78:A:ARG:HB2	19	0.3	0.09	0.33
(2,3703)	1:92:A:LEU:HD13	1:75:A:GLU:HG3	19	0.3	0.09	0.33
(2,3703)	1:92:A:LEU:HD11	1:75:A:GLU:HG3	19	0.3	0.09	0.33
(2,3728)	1:89:A:VAL:HG12	1:78:A:ARG:HG2	19	0.27	0.05	0.28
(2,3728)	1:89:A:VAL:HG11	1:78:A:ARG:HG2	19	0.27	0.05	0.28
(2,3728)	1:89:A:VAL:HG13	1:78:A:ARG:HG2	19	0.27	0.05	0.28
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	19	0.25	0.01	0.25
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD13	19	0.25	0.1	0.25
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD11	19	0.25	0.1	0.25
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD12	19	0.25	0.1	0.25
(2,3669)	1:60:A:PHE:HA	1:55:A:THR:HG21	19	0.25	0.1	0.25

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3894)	1:92:A:LEU:HD21	1:93:A:PRO:HG2	19	0.24	0.07	0.27
(2,3894)	1:92:A:LEU:HD22	1:93:A:PRO:HG2	19	0.24	0.07	0.27
(2,3894)	1:92:A:LEU:HD23	1:93:A:PRO:HG2	19	0.24	0.07	0.27
(2,3894)	1:92:A:LEU:HD22	1:93:A:PRO:HG3	19	0.24	0.07	0.27
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	19	0.24	0.07	0.22
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	19	0.21	0.04	0.21
(2,4308)	1:99:A:ARG:HA	1:99:A:ARG:HD2	19	0.21	0.08	0.18
(2,4308)	1:99:A:ARG:HD3	1:99:A:ARG:HA	19	0.21	0.08	0.18
(2,2805)	1:126:A:ILE:HD11	1:130:A:ALA:H	19	0.2	0.03	0.2
(2,2805)	1:126:A:ILE:HD12	1:130:A:ALA:H	19	0.2	0.03	0.2
(2,2805)	1:126:A:ILE:HD13	1:130:A:ALA:H	19	0.2	0.03	0.2
(2,1922)	1:33:A:VAL:HG22	1:33:A:VAL:HA	19	0.19	0.06	0.16
(2,1922)	1:33:A:VAL:HG21	1:33:A:VAL:HA	19	0.19	0.06	0.16
(2,1922)	1:33:A:VAL:HG23	1:33:A:VAL:HA	19	0.19	0.06	0.16
(2,996)	1:101:A:LEU:HD23	1:101:A:LEU:HG	19	0.18	0.02	0.18
(2,996)	1:101:A:LEU:HD21	1:101:A:LEU:HG	19	0.18	0.02	0.18
(2,996)	1:101:A:LEU:HD22	1:101:A:LEU:HG	19	0.18	0.02	0.18
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG23	19	0.18	0.03	0.18
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG22	19	0.18	0.03	0.18
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG21	19	0.18	0.03	0.18
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD11	19	0.18	0.04	0.18
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD12	19	0.18	0.04	0.18
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD13	19	0.18	0.04	0.18
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG21	19	0.18	0.05	0.17
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG22	19	0.18	0.05	0.17
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG23	19	0.18	0.05	0.17
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	19	0.17	0.03	0.17
(2,3975)	1:3:A:GLU:HG2	1:3:A:GLU:HB2	19	0.17	0.03	0.17
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	19	0.17	0.03	0.18
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE3	19	0.17	0.03	0.18
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	19	0.15	0.02	0.15
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD21	19	0.15	0.03	0.17
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD22	19	0.15	0.03	0.17
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD23	19	0.15	0.03	0.17
(2,4090)	1:31:A:ILE:HD12	1:31:A:ILE:HG13	19	0.14	0.01	0.14
(2,4090)	1:31:A:ILE:HD11	1:31:A:ILE:HG13	19	0.14	0.01	0.14
(2,4090)	1:31:A:ILE:HD13	1:31:A:ILE:HG13	19	0.14	0.01	0.14
(2,1107)	1:12:A:ILE:HD11	1:12:A:ILE:HG13	19	0.14	0.01	0.14
(2,1107)	1:12:A:ILE:HD12	1:12:A:ILE:HG13	19	0.14	0.01	0.14
(2,1107)	1:12:A:ILE:HD13	1:12:A:ILE:HG13	19	0.14	0.01	0.14
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	19	0.11	0.01	0.11
(2,4505)	1:77:A:LEU:HD13	1:144:A:PHE:HA	18	1.11	0.17	1.1

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4505)	1:77:A:LEU:HD12	1:144:A:PHE:HA	18	1.11	0.17	1.1
(2,4505)	1:77:A:LEU:HD11	1:144:A:PHE:HA	18	1.11	0.17	1.1
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	18	0.98	0.11	1.01
(2,4283)	1:86:A:LYS:HE3	1:86:A:LYS:HG2	18	0.98	0.11	1.01
(2,997)	1:101:A:LEU:HD21	1:101:A:LEU:HB2	18	0.95	0.19	0.99
(2,997)	1:101:A:LEU:HD22	1:101:A:LEU:HB2	18	0.95	0.19	0.99
(2,997)	1:101:A:LEU:HD23	1:101:A:LEU:HB2	18	0.95	0.19	0.99
(2,533)	1:143:A:MET:HE2	1:143:A:MET:HG2	18	0.83	0.04	0.82
(2,533)	1:143:A:MET:HE3	1:143:A:MET:HG2	18	0.83	0.04	0.82
(2,533)	1:143:A:MET:HE1	1:143:A:MET:HG2	18	0.83	0.04	0.82
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG22	18	0.8	0.26	0.81
(2,4648)	1:150:A:ILE:HD13	1:145:A:LEU:H	18	0.8	0.26	0.81
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG12	18	0.8	0.26	0.81
(2,4648)	1:150:A:ILE:HD12	1:145:A:LEU:H	18	0.8	0.26	0.81
(2,4648)	1:150:A:ILE:HD11	1:145:A:LEU:H	18	0.8	0.26	0.81
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG23	18	0.8	0.26	0.81
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG21	18	0.8	0.26	0.81
(2,4469)	1:77:A:LEU:HD13	1:130:A:ALA:HB2	18	0.79	0.14	0.81
(2,4469)	1:77:A:LEU:HD12	1:130:A:ALA:HB3	18	0.79	0.14	0.81
(2,4469)	1:77:A:LEU:HD12	1:130:A:ALA:HB2	18	0.79	0.14	0.81
(2,4469)	1:77:A:LEU:HD12	1:130:A:ALA:HB1	18	0.79	0.14	0.81
(2,4469)	1:77:A:LEU:HD13	1:130:A:ALA:HB1	18	0.79	0.14	0.81
(2,4469)	1:77:A:LEU:HD13	1:130:A:ALA:HB3	18	0.79	0.14	0.81
(2,4469)	1:77:A:LEU:HD11	1:130:A:ALA:HB2	18	0.79	0.14	0.81
(2,4469)	1:77:A:LEU:HD11	1:130:A:ALA:HB3	18	0.79	0.14	0.81
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD13	18	0.79	0.45	0.76
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD12	18	0.79	0.45	0.76
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD11	18	0.79	0.45	0.76
(2,4441)	1:33:A:VAL:HG12	1:122:A:LEU:H	18	0.74	0.25	0.83
(2,4441)	1:33:A:VAL:HG13	1:122:A:LEU:H	18	0.74	0.25	0.83
(2,4441)	1:33:A:VAL:HG11	1:122:A:LEU:H	18	0.74	0.25	0.83
(2,2314)	1:77:A:LEU:HD21	1:125:A:PHE:HZ	18	0.72	0.04	0.72
(2,2314)	1:77:A:LEU:HD23	1:125:A:PHE:HZ	18	0.72	0.04	0.72
(2,2314)	1:77:A:LEU:HD22	1:125:A:PHE:HZ	18	0.72	0.04	0.72
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD12	18	0.67	0.02	0.67
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD11	18	0.67	0.02	0.67
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD13	18	0.67	0.02	0.67
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	18	0.67	0.19	0.66
(2,4471)	1:77:A:LEU:HD12	1:126:A:ILE:HA	18	0.59	0.09	0.6
(2,4471)	1:77:A:LEU:HD11	1:126:A:ILE:HA	18	0.59	0.09	0.6
(2,4471)	1:77:A:LEU:HD11	1:141:A:LEU:HA	18	0.59	0.09	0.6
(2,4471)	1:77:A:LEU:HD13	1:141:A:LEU:HA	18	0.59	0.09	0.6

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4471)	1:77:A:LEU:HD13	1:126:A:ILE:HA	18	0.59	0.09	0.6
(2,4775)	1:11:A:LEU:HB2	1:11:A:LEU:H	18	0.57	0.18	0.5
(2,4775)	1:11:A:LEU:HB3	1:11:A:LEU:H	18	0.57	0.18	0.5
(2,4775)	1:11:A:LEU:H	1:10:A:ARG:HG2	18	0.57	0.18	0.5
(2,4475)	1:141:A:LEU:HD13	1:77:A:LEU:HD13	18	0.56	0.18	0.56
(2,4475)	1:141:A:LEU:HD13	1:77:A:LEU:HD12	18	0.56	0.18	0.56
(2,4475)	1:141:A:LEU:HD12	1:77:A:LEU:HD13	18	0.56	0.18	0.56
(2,4475)	1:141:A:LEU:HD11	1:77:A:LEU:HD12	18	0.56	0.18	0.56
(2,4475)	1:141:A:LEU:HD12	1:77:A:LEU:HD12	18	0.56	0.18	0.56
(2,4475)	1:126:A:ILE:HD11	1:77:A:LEU:HD12	18	0.56	0.18	0.56
(2,4475)	1:141:A:LEU:HD12	1:77:A:LEU:HD11	18	0.56	0.18	0.56
(2,4475)	1:141:A:LEU:HD13	1:77:A:LEU:HD11	18	0.56	0.18	0.56
(2,4475)	1:141:A:LEU:HD11	1:77:A:LEU:HD11	18	0.56	0.18	0.56
(2,4475)	1:141:A:LEU:HD11	1:77:A:LEU:HD13	18	0.56	0.18	0.56
(2,4475)	1:126:A:ILE:HD12	1:77:A:LEU:HD11	18	0.56	0.18	0.56
(2,4418)	1:77:A:LEU:HD13	1:144:A:PHE:H	18	0.55	0.18	0.55
(2,4418)	1:77:A:LEU:HD12	1:144:A:PHE:H	18	0.55	0.18	0.55
(2,4418)	1:77:A:LEU:HD11	1:144:A:PHE:H	18	0.55	0.18	0.55
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	18	0.54	0.23	0.49
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB3	18	0.54	0.23	0.49
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD11	18	0.54	0.09	0.52
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD12	18	0.54	0.09	0.52
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD13	18	0.54	0.09	0.52
(2,1330)	1:115:A:ILE:HG23	1:37:A:GLN:H	18	0.49	0.2	0.52
(2,1330)	1:115:A:ILE:HG21	1:37:A:GLN:H	18	0.49	0.2	0.52
(2,1330)	1:115:A:ILE:HG22	1:37:A:GLN:H	18	0.49	0.2	0.52
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	18	0.48	0.18	0.51
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	18	0.47	0.22	0.46
(2,2210)	1:77:A:LEU:HD12	1:144:A:PHE:HD2	18	0.43	0.16	0.42
(2,2210)	1:77:A:LEU:HD11	1:144:A:PHE:HD2	18	0.43	0.16	0.42
(2,2210)	1:77:A:LEU:HD13	1:144:A:PHE:HD2	18	0.43	0.16	0.42
(2,2210)	1:77:A:LEU:HD12	1:144:A:PHE:HD1	18	0.43	0.16	0.42
(2,2210)	1:77:A:LEU:HD13	1:144:A:PHE:HD1	18	0.43	0.16	0.42
(2,2210)	1:77:A:LEU:HD11	1:144:A:PHE:HD1	18	0.43	0.16	0.42
(2,3631)	1:82:A:GLU:HA	1:85:A:SER:HB2	18	0.42	0.04	0.42
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	18	0.42	0.04	0.42
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD11	18	0.41	0.11	0.43
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD12	18	0.41	0.11	0.43
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD13	18	0.41	0.11	0.43
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	18	0.4	0.19	0.36
(2,2011)	1:134:A:LEU:HD13	1:88:A:VAL:H	18	0.36	0.12	0.42
(2,2011)	1:134:A:LEU:HD11	1:88:A:VAL:H	18	0.36	0.12	0.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2011)	1:134:A:LEU:HD12	1:88:A:VAL:H	18	0.36	0.12	0.42
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	18	0.33	0.14	0.32
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG3	18	0.33	0.14	0.32
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD23	18	0.31	0.16	0.23
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD22	18	0.31	0.16	0.23
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD21	18	0.31	0.16	0.23
(2,3707)	1:92:A:LEU:HD22	1:78:A:ARG:H	18	0.31	0.06	0.32
(2,3707)	1:92:A:LEU:HD21	1:78:A:ARG:H	18	0.31	0.06	0.32
(2,3707)	1:92:A:LEU:HD23	1:78:A:ARG:H	18	0.31	0.06	0.32
(2,151)	1:66:A:THR:HG21	1:50:A:GLU:H	18	0.31	0.09	0.33
(2,151)	1:66:A:THR:HG22	1:50:A:GLU:H	18	0.31	0.09	0.33
(2,151)	1:66:A:THR:HG23	1:50:A:GLU:H	18	0.31	0.09	0.33
(2,1286)	1:51:A:ILE:HD13	1:144:A:PHE:HE1	18	0.31	0.08	0.29
(2,1286)	1:51:A:ILE:HD12	1:144:A:PHE:HE1	18	0.31	0.08	0.29
(2,1286)	1:51:A:ILE:HD11	1:144:A:PHE:HE1	18	0.31	0.08	0.29
(2,1286)	1:51:A:ILE:HD11	1:144:A:PHE:HE2	18	0.31	0.08	0.29
(2,1286)	1:51:A:ILE:HD13	1:144:A:PHE:HE2	18	0.31	0.08	0.29
(2,1286)	1:51:A:ILE:HD12	1:144:A:PHE:HE2	18	0.31	0.08	0.29
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	18	0.31	0.04	0.29
(2,1386)	1:135:A:ALA:HB1	1:130:A:ALA:H	18	0.3	0.07	0.3
(2,1386)	1:135:A:ALA:HB3	1:130:A:ALA:H	18	0.3	0.07	0.3
(2,1386)	1:135:A:ALA:HB2	1:130:A:ALA:H	18	0.3	0.07	0.3
(2,4249)	1:12:A:ILE:HD11	1:11:A:LEU:H	18	0.29	0.14	0.27
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	18	0.29	0.14	0.27
(2,4249)	1:12:A:ILE:HD13	1:12:A:ILE:H	18	0.29	0.14	0.27
(2,4249)	1:12:A:ILE:HD12	1:11:A:LEU:H	18	0.29	0.14	0.27
(2,4249)	1:12:A:ILE:HD12	1:12:A:ILE:H	18	0.29	0.14	0.27
(2,1289)	1:51:A:ILE:HD12	1:33:A:VAL:HA	18	0.29	0.03	0.28
(2,1289)	1:51:A:ILE:HD11	1:33:A:VAL:HA	18	0.29	0.03	0.28
(2,1289)	1:51:A:ILE:HD13	1:33:A:VAL:HA	18	0.29	0.03	0.28
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	18	0.27	0.1	0.24
(2,3907)	1:119:A:LYS:HE3	1:116:A:GLU:H	18	0.27	0.1	0.24
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	18	0.26	0.05	0.27
(2,2444)	1:67:A:VAL:HG13	1:68:A:ARG:H	18	0.25	0.08	0.24
(2,2444)	1:67:A:VAL:HG11	1:68:A:ARG:H	18	0.25	0.08	0.24
(2,2444)	1:67:A:VAL:HG12	1:68:A:ARG:H	18	0.25	0.08	0.24
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	18	0.23	0.13	0.16
(2,3819)	1:128:A:LYS:HD3	1:125:A:PHE:H	18	0.23	0.13	0.16
(2,2611)	1:150:A:ILE:HD11	1:144:A:PHE:H	18	0.22	0.06	0.22
(2,2611)	1:150:A:ILE:HD13	1:144:A:PHE:H	18	0.22	0.06	0.22
(2,2611)	1:150:A:ILE:HD12	1:144:A:PHE:H	18	0.22	0.06	0.22
(2,3849)	1:55:A:THR:HG21	1:29:A:LEU:HD13	18	0.22	0.08	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3849)	1:55:A:THR:HG22	1:29:A:LEU:HD13	18	0.22	0.08	0.21
(2,3849)	1:53:A:VAL:HG23	1:55:A:THR:HG21	18	0.22	0.08	0.21
(2,3849)	1:55:A:THR:HG23	1:29:A:LEU:HD11	18	0.22	0.08	0.21
(2,3849)	1:55:A:THR:HG23	1:29:A:LEU:HD12	18	0.22	0.08	0.21
(2,3849)	1:55:A:THR:HG22	1:29:A:LEU:HD12	18	0.22	0.08	0.21
(2,3849)	1:53:A:VAL:HG23	1:55:A:THR:HG23	18	0.22	0.08	0.21
(2,3849)	1:55:A:THR:HG23	1:29:A:LEU:HD13	18	0.22	0.08	0.21
(2,3849)	1:53:A:VAL:HG22	1:55:A:THR:HG23	18	0.22	0.08	0.21
(2,3849)	1:53:A:VAL:HG21	1:55:A:THR:HG22	18	0.22	0.08	0.21
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG23	18	0.21	0.12	0.16
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG21	18	0.21	0.12	0.16
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG22	18	0.21	0.12	0.16
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	18	0.21	0.02	0.21
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	18	0.21	0.08	0.19
(2,3916)	1:119:A:LYS:HE2	1:120:A:GLN:HB3	18	0.21	0.08	0.19
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG21	18	0.2	0.05	0.22
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG22	18	0.2	0.05	0.22
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG23	18	0.2	0.05	0.22
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	18	0.2	0.11	0.17
(2,4205)	1:158:A:LYS:HD3	1:159:A:ILE:H	18	0.2	0.11	0.17
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	18	0.17	0.03	0.17
(2,4273)	1:16:A:GLN:HG3	1:15:A:PRO:HA	18	0.17	0.03	0.17
(2,3994)	1:101:A:LEU:HD12	1:101:A:LEU:HG	18	0.17	0.01	0.17
(2,3994)	1:101:A:LEU:HD13	1:101:A:LEU:HG	18	0.17	0.01	0.17
(2,3994)	1:101:A:LEU:HD11	1:101:A:LEU:HG	18	0.17	0.01	0.17
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	18	0.16	0.05	0.15
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	18	0.15	0.03	0.15
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	18	0.14	0.01	0.14
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	17	0.93	0.16	0.96
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	17	0.92	0.21	0.98
(2,4252)	1:63:A:LYS:HE2	1:60:A:PHE:H	17	0.92	0.21	0.98
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	17	0.76	0.04	0.78
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	17	0.74	0.13	0.73
(2,4785)	1:23:A:GLY:H	1:58:A:PRO:HB2	17	0.71	0.06	0.71
(2,4785)	1:23:A:GLY:H	1:24:A:PRO:HB3	17	0.71	0.06	0.71
(2,3688)	1:150:A:ILE:HD12	1:73:A:ASP:H	17	0.65	0.22	0.73
(2,3688)	1:150:A:ILE:HD11	1:73:A:ASP:H	17	0.65	0.22	0.73
(2,3688)	1:150:A:ILE:HD13	1:73:A:ASP:H	17	0.65	0.22	0.73
(2,3688)	1:150:A:ILE:HD13	1:77:A:LEU:H	17	0.65	0.22	0.73
(2,3688)	1:150:A:ILE:HD11	1:77:A:LEU:H	17	0.65	0.22	0.73
(2,2747)	1:122:A:LEU:HD21	1:121:A:GLY:H	17	0.64	0.07	0.66
(2,2747)	1:122:A:LEU:HD22	1:121:A:GLY:H	17	0.64	0.07	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2747)	1:122:A:LEU:HD23	1:121:A:GLY:H	17	0.64	0.07	0.66
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	17	0.58	0.28	0.71
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	17	0.54	0.02	0.54
(2,748)	1:122:A:LEU:HD21	1:122:A:LEU:H	17	0.52	0.1	0.56
(2,748)	1:122:A:LEU:HD22	1:122:A:LEU:H	17	0.52	0.1	0.56
(2,748)	1:122:A:LEU:HD23	1:122:A:LEU:H	17	0.52	0.1	0.56
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG23	17	0.52	0.09	0.53
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG22	17	0.52	0.09	0.53
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG21	17	0.52	0.09	0.53
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	17	0.5	0.35	0.33
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	17	0.45	0.31	0.35
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD22	17	0.44	0.17	0.37
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD21	17	0.44	0.17	0.37
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD23	17	0.44	0.17	0.37
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	17	0.42	0.05	0.44
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD21	17	0.4	0.53	0.23
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD22	17	0.4	0.53	0.23
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD23	17	0.4	0.53	0.23
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	17	0.4	0.21	0.28
(2,4552)	1:122:A:LEU:HB3	1:118:A:ARG:HA	17	0.4	0.21	0.28
(2,4060)	1:160:A:ARG:HA	1:161:A:HIS:HD2	17	0.38	0.1	0.43
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	17	0.38	0.1	0.43
(2,4351)	1:81:A:LEU:HD13	1:89:A:VAL:HG21	17	0.37	0.11	0.42
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG23	17	0.37	0.11	0.42
(2,4351)	1:81:A:LEU:HD11	1:89:A:VAL:HG22	17	0.37	0.11	0.42
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG21	17	0.37	0.11	0.42
(2,4351)	1:81:A:LEU:HD11	1:89:A:VAL:HG23	17	0.37	0.11	0.42
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG22	17	0.37	0.11	0.42
(2,4351)	1:81:A:LEU:HD13	1:89:A:VAL:HG22	17	0.37	0.11	0.42
(2,4351)	1:81:A:LEU:HD13	1:89:A:VAL:HG23	17	0.37	0.11	0.42
(2,1244)	1:81:A:LEU:HD21	1:135:A:ALA:HB1	17	0.34	0.13	0.31
(2,1244)	1:81:A:LEU:HD23	1:135:A:ALA:HB1	17	0.34	0.13	0.31
(2,1244)	1:81:A:LEU:HD22	1:135:A:ALA:HB1	17	0.34	0.13	0.31
(2,1244)	1:81:A:LEU:HD23	1:135:A:ALA:HB2	17	0.34	0.13	0.31
(2,1244)	1:81:A:LEU:HD21	1:135:A:ALA:HB3	17	0.34	0.13	0.31
(2,1244)	1:81:A:LEU:HD23	1:135:A:ALA:HB3	17	0.34	0.13	0.31
(2,1244)	1:81:A:LEU:HD21	1:135:A:ALA:HB2	17	0.34	0.13	0.31
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	17	0.33	0.1	0.3
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG2	17	0.33	0.1	0.3
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	17	0.32	0.11	0.31
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG23	17	0.3	0.05	0.31
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG21	17	0.3	0.05	0.31

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG22	17	0.3	0.05	0.31
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	17	0.3	0.09	0.29
(2,4680)	1:137:A:ASN:H	1:134:A:LEU:HB3	17	0.3	0.09	0.29
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	17	0.29	0.08	0.29
(2,999)	1:101:A:LEU:HD11	1:101:A:LEU:HA	17	0.28	0.03	0.29
(2,999)	1:101:A:LEU:HD12	1:101:A:LEU:HA	17	0.28	0.03	0.29
(2,999)	1:101:A:LEU:HD13	1:101:A:LEU:HA	17	0.28	0.03	0.29
(2,755)	1:122:A:LEU:HD21	1:122:A:LEU:HA	17	0.26	0.07	0.22
(2,755)	1:122:A:LEU:HD22	1:122:A:LEU:HA	17	0.26	0.07	0.22
(2,755)	1:122:A:LEU:HD23	1:122:A:LEU:HA	17	0.26	0.07	0.22
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	17	0.26	0.11	0.21
(2,3739)	1:87:A:VAL:HB	1:86:A:LYS:H	17	0.26	0.11	0.21
(2,2979)	1:2:A:ALA:HB2	1:3:A:GLU:H	17	0.25	0.06	0.25
(2,2979)	1:2:A:ALA:HB3	1:3:A:GLU:H	17	0.25	0.06	0.25
(2,2979)	1:2:A:ALA:HB1	1:3:A:GLU:H	17	0.25	0.06	0.25
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	17	0.23	0.04	0.24
(2,4575)	1:101:A:LEU:HD12	1:98:A:LEU:HA	17	0.23	0.03	0.22
(2,4575)	1:101:A:LEU:HD13	1:98:A:LEU:HA	17	0.23	0.03	0.22
(2,4575)	1:101:A:LEU:HD11	1:98:A:LEU:HA	17	0.23	0.03	0.22
(2,1056)	1:159:A:ILE:HD13	1:139:A:ARG:H	17	0.21	0.07	0.2
(2,1056)	1:159:A:ILE:HD12	1:139:A:ARG:H	17	0.21	0.07	0.2
(2,1056)	1:159:A:ILE:HD11	1:139:A:ARG:H	17	0.21	0.07	0.2
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	17	0.21	0.07	0.2
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	17	0.2	0.03	0.2
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD13	17	0.17	0.03	0.17
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD12	17	0.17	0.03	0.17
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD11	17	0.17	0.03	0.17
(2,4052)	1:29:A:LEU:HD23	1:57:A:LEU:HG	17	0.16	0.05	0.15
(2,4052)	1:29:A:LEU:HD21	1:57:A:LEU:HG	17	0.16	0.05	0.15
(2,4052)	1:29:A:LEU:HD22	1:57:A:LEU:HG	17	0.16	0.05	0.15
(2,681)	1:159:A:ILE:HG22	1:159:A:ILE:HB	17	0.13	0.02	0.12
(2,681)	1:159:A:ILE:HG21	1:159:A:ILE:HB	17	0.13	0.02	0.12
(2,681)	1:159:A:ILE:HG23	1:159:A:ILE:HB	17	0.13	0.02	0.12
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	16	0.97	0.09	0.99
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	16	0.84	0.19	0.77
(2,1865)	1:98:A:LEU:HD11	1:94:A:GLY:HA3	16	0.84	0.36	0.86
(2,1865)	1:98:A:LEU:HD12	1:94:A:GLY:HA3	16	0.84	0.36	0.86
(2,1865)	1:98:A:LEU:HD13	1:94:A:GLY:HA3	16	0.84	0.36	0.86
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG22	16	0.83	0.54	0.51
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG23	16	0.83	0.54	0.51
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG21	16	0.83	0.54	0.51
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG12	16	0.78	0.19	0.79

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG21	16	0.78	0.19	0.79
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG22	16	0.78	0.19	0.79
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG23	16	0.78	0.19	0.79
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG13	16	0.78	0.19	0.79
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	16	0.76	0.29	0.91
(2,257)	1:150:A:ILE:HD12	1:152:A:LYS:HE2	16	0.74	0.4	0.57
(2,257)	1:150:A:ILE:HD11	1:152:A:LYS:HE2	16	0.74	0.4	0.57
(2,257)	1:150:A:ILE:HD13	1:152:A:LYS:HE2	16	0.74	0.4	0.57
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	16	0.56	0.2	0.68
(2,4465)	1:61:A:LYS:HD3	1:62:A:LEU:HG	16	0.56	0.2	0.68
(2,2288)	1:162:A:ALA:HB3	1:161:A:HIS:HB2	16	0.55	0.26	0.52
(2,2288)	1:162:A:ALA:HB1	1:161:A:HIS:HB2	16	0.55	0.26	0.52
(2,2288)	1:162:A:ALA:HB2	1:161:A:HIS:HB2	16	0.55	0.26	0.52
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	16	0.52	0.05	0.5
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	16	0.5	0.11	0.48
(2,4233)	1:35:A:ASN:HB2	1:34:A:SER:HB2	16	0.5	0.11	0.48
(2,3024)	1:11:A:LEU:HD11	1:10:A:ARG:H	16	0.47	0.31	0.4
(2,3024)	1:11:A:LEU:HD12	1:10:A:ARG:H	16	0.47	0.31	0.4
(2,3024)	1:11:A:LEU:HD13	1:10:A:ARG:H	16	0.47	0.31	0.4
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	16	0.46	0.19	0.44
(2,3984)	1:104:A:ARG:HD2	1:104:A:ARG:HA	16	0.38	0.08	0.4
(2,3984)	1:104:A:ARG:HD3	1:104:A:ARG:HA	16	0.38	0.08	0.4
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	16	0.38	0.1	0.37
(2,3755)	1:48:A:THR:HG22	1:68:A:ARG:HD3	16	0.37	0.16	0.36
(2,3755)	1:48:A:THR:HG22	1:46:A:PHE:HB2	16	0.37	0.16	0.36
(2,3755)	1:48:A:THR:HG21	1:46:A:PHE:HB2	16	0.37	0.16	0.36
(2,3755)	1:48:A:THR:HG23	1:46:A:PHE:HB2	16	0.37	0.16	0.36
(2,3755)	1:48:A:THR:HG22	1:68:A:ARG:HD2	16	0.37	0.16	0.36
(2,3755)	1:48:A:THR:HG21	1:68:A:ARG:HD3	16	0.37	0.16	0.36
(2,3755)	1:48:A:THR:HG21	1:68:A:ARG:HD2	16	0.37	0.16	0.36
(2,3755)	1:48:A:THR:HG23	1:68:A:ARG:HD3	16	0.37	0.16	0.36
(2,3708)	1:92:A:LEU:HD11	1:78:A:ARG:H	16	0.37	0.13	0.38
(2,3708)	1:92:A:LEU:HD12	1:78:A:ARG:H	16	0.37	0.13	0.38
(2,3708)	1:92:A:LEU:HD13	1:78:A:ARG:H	16	0.37	0.13	0.38
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	16	0.35	0.16	0.35
(2,3662)	1:64:A:GLU:HA	1:63:A:LYS:HB2	16	0.35	0.06	0.36
(2,3662)	1:64:A:GLU:HA	1:54:A:LYS:HB2	16	0.35	0.06	0.36
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	16	0.32	0.08	0.33
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	16	0.31	0.09	0.33
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	16	0.29	0.15	0.25
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE3	16	0.29	0.15	0.25
(2,526)	1:122:A:LEU:HD13	1:75:A:GLU:H	16	0.26	0.12	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,526)	1:122:A:LEU:HD12	1:75:A:GLU:H	16	0.26	0.12	0.24
(2,526)	1:122:A:LEU:HD11	1:75:A:GLU:H	16	0.26	0.12	0.24
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG23	16	0.24	0.09	0.22
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG22	16	0.24	0.09	0.22
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG21	16	0.24	0.09	0.22
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	16	0.23	0.05	0.22
(2,150)	1:66:A:THR:HG21	1:53:A:VAL:H	16	0.23	0.05	0.24
(2,150)	1:66:A:THR:HG23	1:53:A:VAL:H	16	0.23	0.05	0.24
(2,150)	1:66:A:THR:HG22	1:53:A:VAL:H	16	0.23	0.05	0.24
(2,531)	1:143:A:MET:HE1	1:154:A:TYR:HB2	16	0.22	0.1	0.19
(2,531)	1:143:A:MET:HE2	1:154:A:TYR:HB2	16	0.22	0.1	0.19
(2,531)	1:143:A:MET:HE3	1:154:A:TYR:HB2	16	0.22	0.1	0.19
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	16	0.22	0.07	0.2
(2,3301)	1:87:A:VAL:HG21	1:81:A:LEU:H	16	0.21	0.07	0.2
(2,3301)	1:87:A:VAL:HG22	1:81:A:LEU:H	16	0.21	0.07	0.2
(2,3301)	1:87:A:VAL:HG23	1:81:A:LEU:H	16	0.21	0.07	0.2
(2,4462)	1:62:A:LEU:HD12	1:61:A:LYS:HA	16	0.21	0.07	0.22
(2,4462)	1:62:A:LEU:HD13	1:61:A:LYS:HA	16	0.21	0.07	0.22
(2,4462)	1:62:A:LEU:HD11	1:61:A:LYS:HA	16	0.21	0.07	0.22
(2,4462)	1:62:A:LEU:HD21	1:61:A:LYS:HA	16	0.21	0.07	0.22
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB3	16	0.21	0.07	0.2
(2,623)	1:129:A:VAL:HG23	1:130:A:ALA:HB2	16	0.21	0.07	0.2
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB1	16	0.21	0.07	0.2
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB2	16	0.21	0.07	0.2
(2,623)	1:129:A:VAL:HG21	1:130:A:ALA:HB3	16	0.21	0.07	0.2
(2,623)	1:129:A:VAL:HG21	1:130:A:ALA:HB2	16	0.21	0.07	0.2
(2,623)	1:129:A:VAL:HG21	1:130:A:ALA:HB1	16	0.21	0.07	0.2
(2,623)	1:129:A:VAL:HG23	1:130:A:ALA:HB3	16	0.21	0.07	0.2
(2,2232)	1:89:A:VAL:HG11	1:125:A:PHE:HD1	16	0.18	0.05	0.18
(2,2232)	1:89:A:VAL:HG13	1:125:A:PHE:HD1	16	0.18	0.05	0.18
(2,2232)	1:89:A:VAL:HG12	1:125:A:PHE:HD1	16	0.18	0.05	0.18
(2,1499)	1:57:A:LEU:HD23	1:58:A:PRO:HD3	16	0.18	0.04	0.16
(2,1499)	1:57:A:LEU:HD22	1:58:A:PRO:HD3	16	0.18	0.04	0.16
(2,1499)	1:57:A:LEU:HD21	1:58:A:PRO:HD3	16	0.18	0.04	0.16
(2,4574)	1:88:A:VAL:HG21	1:90:A:PRO:HD2	16	0.17	0.05	0.16
(2,4574)	1:88:A:VAL:HG23	1:90:A:PRO:HD2	16	0.17	0.05	0.16
(2,4574)	1:88:A:VAL:HG22	1:90:A:PRO:HD2	16	0.17	0.05	0.16
(2,311)	1:92:A:LEU:HD13	1:92:A:LEU:H	16	0.16	0.05	0.15
(2,311)	1:92:A:LEU:HD11	1:92:A:LEU:H	16	0.16	0.05	0.15
(2,311)	1:92:A:LEU:HD12	1:92:A:LEU:H	16	0.16	0.05	0.15
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	15	1.21	0.2	1.15
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	15	0.83	0.02	0.83

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD3	15	0.82	0.17	0.81
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	15	0.82	0.17	0.81
(2,1102)	1:11:A:LEU:HD23	1:12:A:ILE:H	15	0.77	0.05	0.76
(2,1102)	1:11:A:LEU:HD22	1:12:A:ILE:H	15	0.77	0.05	0.76
(2,1102)	1:11:A:LEU:HD21	1:12:A:ILE:H	15	0.77	0.05	0.76
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	15	0.73	0.11	0.76
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG2	15	0.72	0.44	0.95
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	15	0.72	0.44	0.95
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	15	0.58	0.22	0.62
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HB3	15	0.58	0.22	0.62
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	15	0.56	0.08	0.6
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	15	0.54	0.11	0.52
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD12	15	0.54	0.25	0.57
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD11	15	0.54	0.25	0.57
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD13	15	0.54	0.25	0.57
(2,4314)	1:100:A:GLN:HG2	1:101:A:LEU:HD13	15	0.54	0.25	0.57
(2,4314)	1:100:A:GLN:HG2	1:101:A:LEU:HD12	15	0.54	0.25	0.57
(2,4770)	1:10:A:ARG:H	1:11:A:LEU:HB3	15	0.51	0.35	0.35
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG3	15	0.51	0.35	0.35
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG2	15	0.51	0.35	0.35
(2,4701)	1:44:A:GLY:H	1:110:A:PHE:HE1	15	0.47	0.2	0.42
(2,4701)	1:44:A:GLY:H	1:46:A:PHE:HD1	15	0.47	0.2	0.42
(2,3768)	1:53:A:VAL:HG21	1:145:A:LEU:HB3	15	0.45	0.26	0.32
(2,3768)	1:53:A:VAL:HG22	1:145:A:LEU:HB3	15	0.45	0.26	0.32
(2,3768)	1:53:A:VAL:HG23	1:145:A:LEU:HB3	15	0.45	0.26	0.32
(2,3768)	1:53:A:VAL:HG23	1:29:A:LEU:HG	15	0.45	0.26	0.32
(2,3768)	1:53:A:VAL:HG22	1:29:A:LEU:HG	15	0.45	0.26	0.32
(2,2913)	1:115:A:ILE:HD13	1:37:A:GLN:H	15	0.42	0.12	0.46
(2,2913)	1:115:A:ILE:HD12	1:37:A:GLN:H	15	0.42	0.12	0.46
(2,2913)	1:115:A:ILE:HD11	1:37:A:GLN:H	15	0.42	0.12	0.46
(2,4122)	1:33:A:VAL:HG12	1:144:A:PHE:HE1	15	0.4	0.11	0.36
(2,4122)	1:33:A:VAL:HG11	1:144:A:PHE:HE1	15	0.4	0.11	0.36
(2,4122)	1:33:A:VAL:HG13	1:144:A:PHE:HE1	15	0.4	0.11	0.36
(2,4122)	1:33:A:VAL:HG12	1:144:A:PHE:HE2	15	0.4	0.11	0.36
(2,4122)	1:33:A:VAL:HG11	1:125:A:PHE:HD2	15	0.4	0.11	0.36
(2,4725)	1:50:A:GLU:H	1:36:A:PRO:HB3	15	0.38	0.16	0.41
(2,4725)	1:50:A:GLU:H	1:37:A:GLN:HB2	15	0.38	0.16	0.41
(2,4760)	1:5:A:VAL:HG12	1:4:A:THR:H	15	0.38	0.19	0.34
(2,4760)	1:5:A:VAL:HG22	1:4:A:THR:H	15	0.38	0.19	0.34
(2,4760)	1:5:A:VAL:HG23	1:4:A:THR:H	15	0.38	0.19	0.34
(2,4760)	1:5:A:VAL:HG13	1:4:A:THR:H	15	0.38	0.19	0.34
(2,4760)	1:5:A:VAL:HG21	1:4:A:THR:H	15	0.38	0.19	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4760)	1:5:A:VAL:HG11	1:4:A:THR:H	15	0.38	0.19	0.34
(2,877)	1:115:A:ILE:HG21	1:47:A:THR:HG21	15	0.37	0.14	0.41
(2,877)	1:115:A:ILE:HG23	1:47:A:THR:HG21	15	0.37	0.14	0.41
(2,877)	1:115:A:ILE:HG22	1:47:A:THR:HG21	15	0.37	0.14	0.41
(2,877)	1:115:A:ILE:HG23	1:47:A:THR:HG23	15	0.37	0.14	0.41
(2,877)	1:115:A:ILE:HG23	1:47:A:THR:HG22	15	0.37	0.14	0.41
(2,877)	1:115:A:ILE:HG22	1:47:A:THR:HG23	15	0.37	0.14	0.41
(2,877)	1:115:A:ILE:HG21	1:47:A:THR:HG23	15	0.37	0.14	0.41
(2,877)	1:115:A:ILE:HG22	1:47:A:THR:HG22	15	0.37	0.14	0.41
(2,3947)	1:115:A:ILE:HG23	1:36:A:PRO:HG2	15	0.36	0.13	0.39
(2,3947)	1:115:A:ILE:HG22	1:36:A:PRO:HG2	15	0.36	0.13	0.39
(2,3947)	1:115:A:ILE:HG21	1:36:A:PRO:HG2	15	0.36	0.13	0.39
(2,2094)	1:98:A:LEU:HD23	1:97:A:PHE:HZ	15	0.35	0.07	0.38
(2,2094)	1:98:A:LEU:HD22	1:97:A:PHE:HZ	15	0.35	0.07	0.38
(2,2094)	1:98:A:LEU:HD21	1:97:A:PHE:HZ	15	0.35	0.07	0.38
(2,428)	1:13:A:THR:HG23	1:12:A:ILE:H	15	0.34	0.08	0.32
(2,428)	1:13:A:THR:HG21	1:12:A:ILE:H	15	0.34	0.08	0.32
(2,428)	1:13:A:THR:HG22	1:12:A:ILE:H	15	0.34	0.08	0.32
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	15	0.3	0.13	0.23
(2,1679)	1:126:A:ILE:HG22	1:31:A:ILE:HG21	15	0.3	0.13	0.29
(2,1679)	1:126:A:ILE:HG23	1:31:A:ILE:HG23	15	0.3	0.13	0.29
(2,1679)	1:126:A:ILE:HG22	1:31:A:ILE:HG23	15	0.3	0.13	0.29
(2,1679)	1:126:A:ILE:HG23	1:31:A:ILE:HG22	15	0.3	0.13	0.29
(2,1679)	1:126:A:ILE:HG21	1:31:A:ILE:HG22	15	0.3	0.13	0.29
(2,1679)	1:126:A:ILE:HG21	1:31:A:ILE:HG23	15	0.3	0.13	0.29
(2,1679)	1:126:A:ILE:HG22	1:31:A:ILE:HG22	15	0.3	0.13	0.29
(2,1679)	1:126:A:ILE:HG23	1:31:A:ILE:HG21	15	0.3	0.13	0.29
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	15	0.29	0.07	0.28
(2,4872)	1:113:A:ASN:H	1:117:A:GLU:HG2	15	0.29	0.07	0.28
(2,4102)	1:51:A:ILE:HG23	1:53:A:VAL:HB	15	0.29	0.1	0.26
(2,4102)	1:51:A:ILE:HG21	1:53:A:VAL:HB	15	0.29	0.1	0.26
(2,4102)	1:51:A:ILE:HG22	1:53:A:VAL:HB	15	0.29	0.1	0.26
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB1	15	0.28	0.08	0.3
(2,3608)	1:131:A:GLY:HA2	1:29:A:LEU:HB3	15	0.28	0.08	0.3
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB3	15	0.28	0.08	0.3
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB2	15	0.28	0.08	0.3
(2,3289)	1:150:A:ILE:HD12	1:73:A:ASP:H	15	0.26	0.09	0.25
(2,3289)	1:150:A:ILE:HD11	1:73:A:ASP:H	15	0.26	0.09	0.25
(2,3289)	1:150:A:ILE:HD13	1:73:A:ASP:H	15	0.26	0.09	0.25
(2,381)	1:89:A:VAL:HG13	1:81:A:LEU:HD11	15	0.24	0.07	0.22
(2,381)	1:89:A:VAL:HG13	1:81:A:LEU:HD13	15	0.24	0.07	0.22
(2,381)	1:89:A:VAL:HG12	1:81:A:LEU:HD12	15	0.24	0.07	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,381)	1:89:A:VAL:HG11	1:81:A:LEU:HD13	15	0.24	0.07	0.22
(2,381)	1:89:A:VAL:HG11	1:81:A:LEU:HD12	15	0.24	0.07	0.22
(2,381)	1:89:A:VAL:HG12	1:81:A:LEU:HD13	15	0.24	0.07	0.22
(2,381)	1:89:A:VAL:HG13	1:81:A:LEU:HD12	15	0.24	0.07	0.22
(2,381)	1:89:A:VAL:HG12	1:81:A:LEU:HD11	15	0.24	0.07	0.22
(2,4327)	1:33:A:VAL:HG23	1:122:A:LEU:H	15	0.24	0.09	0.27
(2,4327)	1:33:A:VAL:HG22	1:122:A:LEU:H	15	0.24	0.09	0.27
(2,4327)	1:33:A:VAL:HG21	1:122:A:LEU:H	15	0.24	0.09	0.27
(2,4931)	1:139:A:ARG:H	1:159:A:ILE:HG23	15	0.22	0.08	0.2
(2,4931)	1:139:A:ARG:H	1:141:A:LEU:HD12	15	0.22	0.08	0.2
(2,4931)	1:139:A:ARG:H	1:141:A:LEU:HD11	15	0.22	0.08	0.2
(2,4931)	1:139:A:ARG:H	1:141:A:LEU:HD13	15	0.22	0.08	0.2
(2,4931)	1:139:A:ARG:H	1:159:A:ILE:HG22	15	0.22	0.08	0.2
(2,4931)	1:139:A:ARG:H	1:159:A:ILE:HG21	15	0.22	0.08	0.2
(2,530)	1:143:A:MET:HE2	1:150:A:ILE:HA	15	0.18	0.08	0.17
(2,530)	1:143:A:MET:HE3	1:150:A:ILE:HA	15	0.18	0.08	0.17
(2,530)	1:143:A:MET:HE1	1:150:A:ILE:HA	15	0.18	0.08	0.17
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	15	0.17	0.04	0.18
(2,540)	1:143:A:MET:HE3	1:76:A:TRP:HZ2	15	0.17	0.07	0.14
(2,540)	1:143:A:MET:HE1	1:76:A:TRP:HZ2	15	0.17	0.07	0.14
(2,540)	1:143:A:MET:HE2	1:76:A:TRP:HZ2	15	0.17	0.07	0.14
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	15	0.16	0.04	0.16
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	15	0.14	0.02	0.14
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	15	0.13	0.02	0.13
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	15	0.12	0.01	0.11
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	14	1.09	0.23	1.15
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB1	14	1.06	0.45	1.15
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB3	14	1.06	0.45	1.15
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB2	14	1.06	0.45	1.15
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	14	1.02	0.36	1.08
(2,1372)	1:21:A:ALA:HB1	1:22:A:TYR:HE1	14	0.98	0.1	0.96
(2,1372)	1:21:A:ALA:HB3	1:22:A:TYR:HE1	14	0.98	0.1	0.96
(2,1372)	1:21:A:ALA:HB2	1:22:A:TYR:HE1	14	0.98	0.1	0.96
(2,1372)	1:21:A:ALA:HB2	1:22:A:TYR:HE2	14	0.98	0.1	0.96
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD23	14	0.8	0.26	0.84
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD21	14	0.8	0.26	0.84
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD22	14	0.8	0.26	0.84
(2,4115)	1:135:A:ALA:HB2	1:136:A:GLN:HG3	14	0.73	0.17	0.79
(2,4115)	1:135:A:ALA:HB1	1:136:A:GLN:HG3	14	0.73	0.17	0.79
(2,4115)	1:135:A:ALA:HB3	1:136:A:GLN:HG3	14	0.73	0.17	0.79
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD22	14	0.7	0.16	0.74
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD21	14	0.7	0.16	0.74

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD23	14	0.7	0.16	0.74
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	14	0.67	0.26	0.68
(2,4023)	1:12:A:ILE:HD13	1:10:A:ARG:HD3	14	0.6	0.21	0.55
(2,4023)	1:12:A:ILE:HD12	1:10:A:ARG:HD3	14	0.6	0.21	0.55
(2,4023)	1:12:A:ILE:HD11	1:10:A:ARG:HD2	14	0.6	0.21	0.55
(2,4023)	1:12:A:ILE:HD11	1:10:A:ARG:HD3	14	0.6	0.21	0.55
(2,4023)	1:12:A:ILE:HD12	1:10:A:ARG:HD2	14	0.6	0.21	0.55
(2,2312)	1:77:A:LEU:HD23	1:144:A:PHE:HZ	14	0.56	0.2	0.5
(2,2312)	1:77:A:LEU:HD22	1:144:A:PHE:HZ	14	0.56	0.2	0.5
(2,2312)	1:77:A:LEU:HD21	1:144:A:PHE:HZ	14	0.56	0.2	0.5
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	14	0.51	0.29	0.7
(2,1312)	1:149:A:ILE:HG22	1:151:A:ASP:H	14	0.45	0.23	0.34
(2,1312)	1:149:A:ILE:HG23	1:151:A:ASP:H	14	0.45	0.23	0.34
(2,1312)	1:149:A:ILE:HG21	1:151:A:ASP:H	14	0.45	0.23	0.34
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	14	0.42	0.1	0.46
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	14	0.42	0.09	0.44
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD11	14	0.39	0.04	0.39
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD12	14	0.39	0.04	0.39
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD13	14	0.39	0.04	0.39
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD23	14	0.39	0.37	0.24
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD21	14	0.39	0.37	0.24
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD22	14	0.39	0.37	0.24
(2,4611)	1:80:A:GLU:H	1:81:A:LEU:HD13	14	0.39	0.37	0.24
(2,4611)	1:80:A:GLU:H	1:81:A:LEU:HD12	14	0.39	0.37	0.24
(2,2131)	1:29:A:LEU:HD23	1:136:A:GLN:HE21	14	0.36	0.19	0.32
(2,2131)	1:29:A:LEU:HD22	1:136:A:GLN:HE21	14	0.36	0.19	0.32
(2,2131)	1:29:A:LEU:HD21	1:136:A:GLN:HE21	14	0.36	0.19	0.32
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	14	0.36	0.12	0.37
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	14	0.35	0.09	0.36
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG23	14	0.35	0.18	0.31
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG21	14	0.35	0.18	0.31
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG22	14	0.35	0.18	0.31
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE1	14	0.34	0.1	0.32
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE2	14	0.34	0.1	0.32
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE3	14	0.34	0.1	0.32
(2,2338)	1:29:A:LEU:HD22	1:130:A:ALA:H	14	0.34	0.13	0.32
(2,2338)	1:29:A:LEU:HD21	1:130:A:ALA:H	14	0.34	0.13	0.32
(2,2338)	1:29:A:LEU:HD23	1:130:A:ALA:H	14	0.34	0.13	0.32
(2,1370)	1:21:A:ALA:HB1	1:20:A:ASP:H	14	0.33	0.11	0.3
(2,1370)	1:21:A:ALA:HB3	1:20:A:ASP:H	14	0.33	0.11	0.3
(2,1370)	1:21:A:ALA:HB2	1:20:A:ASP:H	14	0.33	0.11	0.3
(2,4945)	1:77:A:LEU:HD22	1:142:A:HIS:H	14	0.32	0.22	0.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4945)	1:77:A:LEU:HD21	1:142:A:HIS:H	14	0.32	0.22	0.23
(2,4945)	1:77:A:LEU:HD23	1:142:A:HIS:H	14	0.32	0.22	0.23
(2,4945)	1:142:A:HIS:H	1:81:A:LEU:HD21	14	0.32	0.22	0.23
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	14	0.29	0.16	0.21
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	14	0.28	0.13	0.24
(2,4103)	1:51:A:ILE:HG23	1:60:A:PHE:HE2	14	0.27	0.14	0.26
(2,4103)	1:51:A:ILE:HG21	1:60:A:PHE:HE2	14	0.27	0.14	0.26
(2,4103)	1:51:A:ILE:HG22	1:60:A:PHE:HE2	14	0.27	0.14	0.26
(2,4454)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	14	0.26	0.09	0.26
(2,4454)	1:31:A:ILE:HG23	1:52:A:ARG:HB2	14	0.26	0.09	0.26
(2,4454)	1:52:A:ARG:HB2	1:51:A:ILE:HG21	14	0.26	0.09	0.26
(2,4454)	1:52:A:ARG:HB2	1:51:A:ILE:HG23	14	0.26	0.09	0.26
(2,4454)	1:52:A:ARG:HB2	1:51:A:ILE:HG22	14	0.26	0.09	0.26
(2,4454)	1:31:A:ILE:HG22	1:52:A:ARG:HB2	14	0.26	0.09	0.26
(2,4899)	1:124:A:GLN:HE22	1:121:A:GLY:HA2	14	0.26	0.1	0.29
(2,4899)	1:124:A:GLN:HE22	1:123:A:GLU:HA	14	0.26	0.1	0.29
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD2	14	0.25	0.05	0.26
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	14	0.25	0.05	0.26
(2,1671)	1:31:A:ILE:HG23	1:127:A:ASN:HD21	14	0.25	0.08	0.22
(2,1671)	1:31:A:ILE:HG22	1:127:A:ASN:HD21	14	0.25	0.08	0.22
(2,1671)	1:31:A:ILE:HG21	1:127:A:ASN:HD21	14	0.25	0.08	0.22
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	14	0.22	0.04	0.22
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD12	14	0.2	0.05	0.2
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD11	14	0.2	0.05	0.2
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD13	14	0.2	0.05	0.2
(2,673)	1:55:A:THR:HG22	1:62:A:LEU:H	14	0.19	0.05	0.19
(2,673)	1:55:A:THR:HG21	1:62:A:LEU:H	14	0.19	0.05	0.19
(2,673)	1:55:A:THR:HG23	1:62:A:LEU:H	14	0.19	0.05	0.19
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	14	0.19	0.04	0.18
(2,1339)	1:59:A:ILE:HG21	1:58:A:PRO:HD3	14	0.18	0.05	0.18
(2,1339)	1:59:A:ILE:HG23	1:58:A:PRO:HD3	14	0.18	0.05	0.18
(2,1339)	1:59:A:ILE:HG22	1:58:A:PRO:HD3	14	0.18	0.05	0.18
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	14	0.15	0.03	0.15
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	14	0.12	0.01	0.12
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG22	14	0.11	0.01	0.1
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG23	14	0.11	0.01	0.1
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG21	14	0.11	0.01	0.1
(2,4190)	1:77:A:LEU:HD21	1:80:A:GLU:HB2	13	1.27	1.0	1.35
(2,4190)	1:77:A:LEU:HD22	1:80:A:GLU:HB2	13	1.27	1.0	1.35
(2,4190)	1:77:A:LEU:HD23	1:80:A:GLU:HB2	13	1.27	1.0	1.35
(2,4190)	1:77:A:LEU:HD21	1:80:A:GLU:HG2	13	1.27	1.0	1.35
(2,4215)	1:156:A:PRO:HD3	1:139:A:ARG:HG2	13	0.84	0.44	1.06

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4215)	1:156:A:PRO:HD3	1:143:A:MET:HE1	13	0.84	0.44	1.06
(2,4215)	1:156:A:PRO:HD3	1:143:A:MET:HE2	13	0.84	0.44	1.06
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	13	0.72	0.34	0.65
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	13	0.55	0.2	0.66
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD22	13	0.54	0.14	0.56
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD23	13	0.54	0.14	0.56
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD21	13	0.54	0.14	0.56
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	13	0.49	0.3	0.58
(2,4244)	1:35:A:ASN:HB3	1:34:A:SER:HB2	13	0.49	0.3	0.58
(2,3744)	1:87:A:VAL:HG21	1:82:A:GLU:HG3	13	0.45	0.27	0.37
(2,3744)	1:87:A:VAL:HG23	1:84:A:GLU:HB2	13	0.45	0.27	0.37
(2,3744)	1:87:A:VAL:HG23	1:82:A:GLU:HG3	13	0.45	0.27	0.37
(2,3744)	1:87:A:VAL:HG21	1:84:A:GLU:HB2	13	0.45	0.27	0.37
(2,3744)	1:87:A:VAL:HG22	1:82:A:GLU:HG3	13	0.45	0.27	0.37
(2,3744)	1:87:A:VAL:HG22	1:84:A:GLU:HB2	13	0.45	0.27	0.37
(2,1612)	1:66:A:THR:HG22	1:50:A:GLU:HB3	13	0.34	0.11	0.38
(2,1612)	1:66:A:THR:HG21	1:50:A:GLU:HB3	13	0.34	0.11	0.38
(2,1612)	1:66:A:THR:HG23	1:50:A:GLU:HB3	13	0.34	0.11	0.38
(2,3958)	1:109:A:ILE:HD13	1:107:A:ASP:H	13	0.31	0.15	0.3
(2,3958)	1:109:A:ILE:HD12	1:108:A:GLY:H	13	0.31	0.15	0.3
(2,3958)	1:109:A:ILE:HD11	1:107:A:ASP:H	13	0.31	0.15	0.3
(2,3958)	1:109:A:ILE:HD12	1:107:A:ASP:H	13	0.31	0.15	0.3
(2,3702)	1:92:A:LEU:HD22	1:75:A:GLU:HG2	13	0.28	0.11	0.24
(2,3702)	1:92:A:LEU:HD21	1:75:A:GLU:HG2	13	0.28	0.11	0.24
(2,3702)	1:92:A:LEU:HD23	1:75:A:GLU:HG2	13	0.28	0.11	0.24
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	13	0.27	0.06	0.28
(2,3959)	1:109:A:ILE:HD13	1:110:A:PHE:HE1	13	0.27	0.12	0.25
(2,3959)	1:109:A:ILE:HD11	1:110:A:PHE:HE1	13	0.27	0.12	0.25
(2,3959)	1:109:A:ILE:HD12	1:110:A:PHE:HE1	13	0.27	0.12	0.25
(2,3959)	1:109:A:ILE:HD13	1:110:A:PHE:HE2	13	0.27	0.12	0.25
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	13	0.23	0.05	0.22
(2,3560)	1:122:A:LEU:HD11	1:121:A:GLY:H	13	0.23	0.07	0.26
(2,3560)	1:122:A:LEU:HD13	1:121:A:GLY:H	13	0.23	0.07	0.26
(2,3560)	1:122:A:LEU:HD12	1:121:A:GLY:H	13	0.23	0.07	0.26
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD1	13	0.21	0.06	0.21
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD2	13	0.21	0.06	0.21
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	13	0.21	0.11	0.19
(2,4174)	1:63:A:LYS:HD2	1:55:A:THR:H	13	0.21	0.11	0.19
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD12	13	0.21	0.08	0.19
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD11	13	0.21	0.08	0.19
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD13	13	0.21	0.08	0.19
(2,4247)	1:12:A:ILE:HB	1:11:A:LEU:HA	13	0.2	0.07	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4247)	1:12:A:ILE:HB	1:13:A:THR:HA	13	0.2	0.07	0.18
(2,2996)	1:6:A:ALA:HB1	1:6:A:ALA:H	13	0.2	0.08	0.2
(2,2996)	1:6:A:ALA:HB3	1:6:A:ALA:H	13	0.2	0.08	0.2
(2,2996)	1:6:A:ALA:HB2	1:6:A:ALA:H	13	0.2	0.08	0.2
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	13	0.2	0.04	0.19
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG2	13	0.19	0.05	0.18
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG3	13	0.19	0.05	0.18
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG23	13	0.19	0.06	0.19
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG22	13	0.19	0.06	0.19
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG21	13	0.19	0.06	0.19
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	13	0.18	0.06	0.13
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	13	0.18	0.11	0.15
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB3	13	0.18	0.11	0.15
(2,1511)	1:59:A:ILE:HG23	1:57:A:LEU:HG	13	0.17	0.06	0.16
(2,1511)	1:59:A:ILE:HG22	1:57:A:LEU:HG	13	0.17	0.06	0.16
(2,1511)	1:59:A:ILE:HG21	1:57:A:LEU:HG	13	0.17	0.06	0.16
(2,4682)	1:81:A:LEU:HD21	1:137:A:ASN:H	13	0.16	0.03	0.16
(2,4682)	1:81:A:LEU:HD23	1:137:A:ASN:H	13	0.16	0.03	0.16
(2,4682)	1:81:A:LEU:HD22	1:137:A:ASN:H	13	0.16	0.03	0.16
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	13	0.16	0.05	0.13
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	13	0.15	0.04	0.14
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	13	0.15	0.03	0.16
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	13	0.13	0.03	0.15
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG21	13	0.12	0.01	0.12
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG23	13	0.12	0.01	0.12
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG22	13	0.12	0.01	0.12
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	13	0.11	0.01	0.11
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	13	0.11	0.01	0.11
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD13	13	0.11	0.01	0.11
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	12	1.93	0.51	2.04
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	12	1.26	0.01	1.26
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	12	0.98	0.26	1.04
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	12	0.81	0.37	0.84
(2,4119)	1:5:A:VAL:HG22	1:4:A:THR:HB	12	0.74	0.13	0.7
(2,4119)	1:5:A:VAL:HG21	1:4:A:THR:HB	12	0.74	0.13	0.7
(2,4119)	1:5:A:VAL:HG23	1:4:A:THR:HB	12	0.74	0.13	0.7
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	12	0.66	0.64	0.32
(2,1965)	1:149:A:ILE:HD13	1:150:A:ILE:HA	12	0.46	0.24	0.52
(2,1965)	1:149:A:ILE:HD12	1:150:A:ILE:HA	12	0.46	0.24	0.52
(2,1965)	1:149:A:ILE:HD11	1:150:A:ILE:HA	12	0.46	0.24	0.52
(2,3869)	1:158:A:LYS:HD2	1:137:A:ASN:HD21	12	0.38	0.09	0.36
(2,3869)	1:158:A:LYS:HD3	1:137:A:ASN:HD21	12	0.38	0.09	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4141)	1:64:A:GLU:HG3	1:55:A:THR:H	12	0.37	0.09	0.36
(2,4141)	1:64:A:GLU:HG2	1:55:A:THR:H	12	0.37	0.09	0.36
(2,3963)	1:109:A:ILE:HD11	1:107:A:ASP:HB3	12	0.34	0.18	0.34
(2,3963)	1:109:A:ILE:HD12	1:107:A:ASP:HB3	12	0.34	0.18	0.34
(2,3963)	1:109:A:ILE:HD13	1:107:A:ASP:HB3	12	0.34	0.18	0.34
(2,3963)	1:109:A:ILE:HD11	1:107:A:ASP:HB2	12	0.34	0.18	0.34
(2,3963)	1:109:A:ILE:HD13	1:107:A:ASP:HB2	12	0.34	0.18	0.34
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG21	12	0.34	0.17	0.25
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG23	12	0.34	0.17	0.25
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG22	12	0.34	0.17	0.25
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	12	0.32	0.13	0.38
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD2	12	0.32	0.13	0.38
(2,525)	1:122:A:LEU:HD11	1:122:A:LEU:H	12	0.31	0.07	0.33
(2,525)	1:122:A:LEU:HD13	1:122:A:LEU:H	12	0.31	0.07	0.33
(2,525)	1:122:A:LEU:HD12	1:122:A:LEU:H	12	0.31	0.07	0.33
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG23	12	0.3	0.25	0.2
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG21	12	0.3	0.25	0.2
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG22	12	0.3	0.25	0.2
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	12	0.28	0.11	0.26
(2,1500)	1:57:A:LEU:HD23	1:58:A:PRO:HD2	12	0.27	0.06	0.28
(2,1500)	1:57:A:LEU:HD21	1:58:A:PRO:HD2	12	0.27	0.06	0.28
(2,1500)	1:57:A:LEU:HD22	1:58:A:PRO:HD2	12	0.27	0.06	0.28
(2,4473)	1:77:A:LEU:HD12	1:144:A:PHE:HB2	12	0.26	0.15	0.2
(2,4473)	1:77:A:LEU:HD13	1:144:A:PHE:HB2	12	0.26	0.15	0.2
(2,4473)	1:77:A:LEU:HD11	1:144:A:PHE:HB2	12	0.26	0.15	0.2
(2,4473)	1:77:A:LEU:HD11	1:144:A:PHE:HB3	12	0.26	0.15	0.2
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	12	0.26	0.21	0.2
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD2	12	0.26	0.21	0.2
(2,3630)	1:84:A:GLU:HA	1:84:A:GLU:HB2	12	0.26	0.04	0.28
(2,3630)	1:3:A:GLU:HA	1:3:A:GLU:HG3	12	0.26	0.04	0.28
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	12	0.24	0.01	0.24
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG23	12	0.24	0.1	0.19
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG22	12	0.24	0.1	0.19
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG21	12	0.24	0.1	0.19
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	12	0.23	0.04	0.26
(2,455)	1:48:A:THR:HG21	1:49:A:TYR:H	12	0.22	0.06	0.2
(2,455)	1:48:A:THR:HG23	1:49:A:TYR:H	12	0.22	0.06	0.2
(2,455)	1:48:A:THR:HG22	1:49:A:TYR:H	12	0.22	0.06	0.2
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG21	12	0.19	0.07	0.18
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG23	12	0.19	0.07	0.18
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG22	12	0.19	0.07	0.18
(2,4058)	1:29:A:LEU:HD12	1:31:A:ILE:HA	12	0.18	0.04	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4058)	1:29:A:LEU:HD11	1:31:A:ILE:HA	12	0.18	0.04	0.15
(2,4058)	1:29:A:LEU:HD13	1:31:A:ILE:HA	12	0.18	0.04	0.15
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	12	0.18	0.04	0.17
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	12	0.16	0.05	0.15
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	12	0.11	0.01	0.11
(2,4562)	1:83:A:ARG:HD2	1:84:A:GLU:HG3	11	1.6	0.22	1.69
(2,4562)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	11	1.6	0.22	1.69
(2,4345)	1:145:A:LEU:HD11	1:141:A:LEU:HB3	11	1.15	0.43	1.28
(2,4345)	1:145:A:LEU:HD13	1:141:A:LEU:HB3	11	1.15	0.43	1.28
(2,4345)	1:145:A:LEU:HD12	1:141:A:LEU:HB3	11	1.15	0.43	1.28
(2,4345)	1:145:A:LEU:HD11	1:146:A:GLN:HG2	11	1.15	0.43	1.28
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD13	11	1.15	0.25	1.2
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD11	11	1.15	0.25	1.2
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD12	11	1.15	0.25	1.2
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	11	1.09	0.08	1.08
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	11	0.93	0.06	0.9
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	11	0.82	0.2	0.86
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	11	0.81	0.02	0.8
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	11	0.75	0.21	0.82
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	11	0.75	0.21	0.82
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	11	0.71	0.02	0.71
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG23	11	0.69	0.13	0.68
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG22	11	0.69	0.13	0.68
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG21	11	0.69	0.13	0.68
(2,4398)	1:62:A:LEU:HD13	1:61:A:LYS:HD2	11	0.62	0.83	0.36
(2,4398)	1:62:A:LEU:HD11	1:61:A:LYS:HD2	11	0.62	0.83	0.36
(2,4398)	1:62:A:LEU:HD12	1:61:A:LYS:HD3	11	0.62	0.83	0.36
(2,4398)	1:62:A:LEU:HD12	1:61:A:LYS:HD2	11	0.62	0.83	0.36
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD21	11	0.54	0.05	0.54
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD23	11	0.54	0.05	0.54
(2,4347)	1:145:A:LEU:HD21	1:144:A:PHE:HD1	11	0.53	0.19	0.53
(2,4347)	1:38:A:THR:HG21	1:110:A:PHE:HZ	11	0.53	0.19	0.53
(2,4347)	1:38:A:THR:HG23	1:110:A:PHE:HZ	11	0.53	0.19	0.53
(2,4347)	1:145:A:LEU:HD21	1:144:A:PHE:HD2	11	0.53	0.19	0.53
(2,4347)	1:38:A:THR:HG22	1:110:A:PHE:HZ	11	0.53	0.19	0.53
(2,4973)	1:137:A:ASN:HD21	1:159:A:ILE:HG22	11	0.46	0.39	0.25
(2,4973)	1:59:A:ILE:HD12	1:137:A:ASN:HD21	11	0.46	0.39	0.25
(2,4973)	1:59:A:ILE:HD11	1:137:A:ASN:HD21	11	0.46	0.39	0.25
(2,4973)	1:137:A:ASN:HD21	1:159:A:ILE:HG23	11	0.46	0.39	0.25
(2,4973)	1:59:A:ILE:HD13	1:137:A:ASN:HD21	11	0.46	0.39	0.25
(2,4973)	1:137:A:ASN:HD21	1:159:A:ILE:HG21	11	0.46	0.39	0.25
(2,4852)	1:97:A:PHE:HB3	1:96:A:ALA:H	11	0.45	0.2	0.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4852)	1:97:A:PHE:HB2	1:96:A:ALA:H	11	0.45	0.2	0.44
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	11	0.44	0.13	0.35
(2,3930)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	11	0.38	0.15	0.42
(2,3930)	1:119:A:LYS:HE2	1:116:A:GLU:HG2	11	0.38	0.15	0.42
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG21	11	0.38	0.15	0.38
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG22	11	0.38	0.15	0.38
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG23	11	0.38	0.15	0.38
(2,3691)	1:150:A:ILE:HD13	1:143:A:MET:HB2	11	0.34	0.16	0.36
(2,3691)	1:150:A:ILE:HD11	1:143:A:MET:HB2	11	0.34	0.16	0.36
(2,3691)	1:150:A:ILE:HD12	1:143:A:MET:HB2	11	0.34	0.16	0.36
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG22	11	0.34	0.09	0.39
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG23	11	0.34	0.09	0.39
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG21	11	0.34	0.09	0.39
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD2	11	0.33	0.08	0.3
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD3	11	0.33	0.08	0.3
(2,4094)	1:115:A:ILE:HG21	1:119:A:LYS:H	11	0.31	0.11	0.31
(2,4094)	1:115:A:ILE:HG23	1:119:A:LYS:H	11	0.31	0.11	0.31
(2,4094)	1:115:A:ILE:HG22	1:119:A:LYS:H	11	0.31	0.11	0.31
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	11	0.31	0.11	0.34
(2,3759)	1:53:A:VAL:HG22	1:30:A:GLU:H	11	0.28	0.1	0.28
(2,3759)	1:53:A:VAL:HG21	1:30:A:GLU:H	11	0.28	0.1	0.28
(2,3759)	1:53:A:VAL:HG22	1:55:A:THR:H	11	0.28	0.1	0.28
(2,3759)	1:53:A:VAL:HG23	1:30:A:GLU:H	11	0.28	0.1	0.28
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	11	0.27	0.08	0.28
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG12	11	0.27	0.08	0.28
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG11	11	0.27	0.08	0.28
(2,1072)	1:159:A:ILE:HD11	1:139:A:ARG:HD2	11	0.27	0.07	0.27
(2,1072)	1:159:A:ILE:HD13	1:139:A:ARG:HD2	11	0.27	0.07	0.27
(2,1072)	1:159:A:ILE:HD12	1:139:A:ARG:HD2	11	0.27	0.07	0.27
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	11	0.27	0.04	0.27
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	11	0.25	0.1	0.27
(2,4741)	1:5:A:VAL:HG12	1:5:A:VAL:H	11	0.24	0.07	0.27
(2,4741)	1:5:A:VAL:HG22	1:5:A:VAL:H	11	0.24	0.07	0.27
(2,4741)	1:5:A:VAL:HG23	1:5:A:VAL:H	11	0.24	0.07	0.27
(2,4741)	1:5:A:VAL:HG21	1:5:A:VAL:H	11	0.24	0.07	0.27
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	11	0.24	0.03	0.24
(2,1583)	1:141:A:LEU:HD12	1:138:A:GLU:H	11	0.21	0.08	0.22
(2,1583)	1:141:A:LEU:HD13	1:138:A:GLU:H	11	0.21	0.08	0.22
(2,1583)	1:141:A:LEU:HD11	1:138:A:GLU:H	11	0.21	0.08	0.22
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	11	0.2	0.06	0.19
(2,4098)	1:59:A:ILE:HG23	1:60:A:PHE:HB3	11	0.19	0.07	0.2
(2,4098)	1:59:A:ILE:HG22	1:60:A:PHE:HB3	11	0.19	0.07	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4098)	1:59:A:ILE:HG21	1:60:A:PHE:HB3	11	0.19	0.07	0.2
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	11	0.19	0.02	0.2
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	11	0.19	0.14	0.16
(2,372)	1:89:A:VAL:HG12	1:81:A:LEU:HB2	11	0.19	0.04	0.19
(2,372)	1:89:A:VAL:HG13	1:81:A:LEU:HB2	11	0.19	0.04	0.19
(2,372)	1:89:A:VAL:HG11	1:81:A:LEU:HB2	11	0.19	0.04	0.19
(2,598)	1:129:A:VAL:HG11	1:125:A:PHE:HD1	11	0.19	0.08	0.16
(2,598)	1:129:A:VAL:HG12	1:125:A:PHE:HD1	11	0.19	0.08	0.16
(2,598)	1:129:A:VAL:HG13	1:125:A:PHE:HD1	11	0.19	0.08	0.16
(2,241)	1:150:A:ILE:HG22	1:151:A:ASP:H	11	0.17	0.05	0.17
(2,241)	1:150:A:ILE:HG23	1:151:A:ASP:H	11	0.17	0.05	0.17
(2,241)	1:150:A:ILE:HG21	1:151:A:ASP:H	11	0.17	0.05	0.17
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	11	0.16	0.03	0.15
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	11	0.16	0.0	0.16
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	11	0.14	0.02	0.14
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	11	0.12	0.01	0.12
(2,513)	1:122:A:LEU:HD12	1:122:A:LEU:HB3	11	0.11	0.01	0.11
(2,513)	1:122:A:LEU:HD11	1:122:A:LEU:HB3	11	0.11	0.01	0.11
(2,513)	1:122:A:LEU:HD13	1:122:A:LEU:HB3	11	0.11	0.01	0.11
(2,4340)	1:144:A:PHE:HA	1:126:A:ILE:HD13	10	1.39	0.62	1.68
(2,4340)	1:144:A:PHE:HA	1:126:A:ILE:HD11	10	1.39	0.62	1.68
(2,4340)	1:144:A:PHE:HA	1:145:A:LEU:HD13	10	1.39	0.62	1.68
(2,4340)	1:144:A:PHE:HA	1:126:A:ILE:HD12	10	1.39	0.62	1.68
(2,3754)	1:145:A:LEU:HA	1:53:A:VAL:HG12	10	0.77	0.16	0.74
(2,3754)	1:145:A:LEU:HA	1:53:A:VAL:HG13	10	0.77	0.16	0.74
(2,3754)	1:145:A:LEU:HA	1:145:A:LEU:HD13	10	0.77	0.16	0.74
(2,3754)	1:145:A:LEU:HA	1:53:A:VAL:HG11	10	0.77	0.16	0.74
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD13	10	0.72	0.35	0.94
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD11	10	0.72	0.35	0.94
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD12	10	0.72	0.35	0.94
(2,224)	1:155:A:THR:HG22	1:139:A:ARG:HG2	10	0.69	0.22	0.71
(2,224)	1:155:A:THR:HG21	1:139:A:ARG:HG2	10	0.69	0.22	0.71
(2,224)	1:155:A:THR:HG23	1:139:A:ARG:HG2	10	0.69	0.22	0.71
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	10	0.68	0.09	0.7
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	10	0.68	0.09	0.7
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG21	10	0.56	0.09	0.6
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG13	10	0.56	0.09	0.6
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG23	10	0.56	0.09	0.6
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG12	10	0.56	0.09	0.6
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG22	10	0.56	0.09	0.6
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD12	10	0.48	0.15	0.5
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD11	10	0.48	0.15	0.5

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD13	10	0.48	0.15	0.5
(2,4890)	1:143:A:MET:H	1:145:A:LEU:HD23	10	0.48	0.15	0.5
(2,3616)	1:32:A:ASP:HB2	1:52:A:ARG:HG3	10	0.4	0.13	0.44
(2,3616)	1:32:A:ASP:HB3	1:52:A:ARG:HG3	10	0.4	0.13	0.44
(2,4787)	1:56:A:ASN:HD22	1:24:A:PRO:HG2	10	0.39	0.09	0.44
(2,3847)	1:159:A:ILE:HG22	1:136:A:GLN:HB2	10	0.38	0.31	0.32
(2,3847)	1:159:A:ILE:HG23	1:136:A:GLN:HB2	10	0.38	0.31	0.32
(2,3847)	1:159:A:ILE:HG21	1:136:A:GLN:HB2	10	0.38	0.31	0.32
(2,2017)	1:134:A:LEU:HD11	1:137:A:ASN:HB2	10	0.32	0.09	0.34
(2,2017)	1:134:A:LEU:HD12	1:137:A:ASN:HB2	10	0.32	0.09	0.34
(2,2017)	1:134:A:LEU:HD13	1:137:A:ASN:HB2	10	0.32	0.09	0.34
(2,4157)	1:57:A:LEU:HA	1:58:A:PRO:HG3	10	0.32	0.1	0.37
(2,3985)	1:104:A:ARG:HG3	1:104:A:ARG:H	10	0.3	0.1	0.28
(2,1915)	1:134:A:LEU:HD21	1:86:A:LYS:HB3	10	0.29	0.14	0.3
(2,1915)	1:134:A:LEU:HD23	1:86:A:LYS:HB3	10	0.29	0.14	0.3
(2,1915)	1:134:A:LEU:HD22	1:86:A:LYS:HB3	10	0.29	0.14	0.3
(2,3466)	1:136:A:GLN:HE22	1:136:A:GLN:H	10	0.28	0.07	0.32
(2,291)	1:92:A:LEU:HD23	1:93:A:PRO:HD3	10	0.25	0.11	0.24
(2,291)	1:92:A:LEU:HD21	1:93:A:PRO:HD3	10	0.25	0.11	0.24
(2,291)	1:92:A:LEU:HD22	1:93:A:PRO:HD3	10	0.25	0.11	0.24
(2,3877)	1:123:A:GLU:HB3	1:127:A:ASN:HD22	10	0.23	0.08	0.21
(2,1326)	1:12:A:ILE:HG21	1:13:A:THR:HA	10	0.22	0.06	0.21
(2,1326)	1:12:A:ILE:HG23	1:13:A:THR:HA	10	0.22	0.06	0.21
(2,1326)	1:12:A:ILE:HG22	1:13:A:THR:HA	10	0.22	0.06	0.21
(2,3736)	1:58:A:PRO:HG2	1:59:A:ILE:H	10	0.21	0.02	0.21
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD12	10	0.21	0.07	0.23
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD11	10	0.21	0.07	0.23
(2,3740)	1:87:A:VAL:HG22	1:86:A:LYS:H	10	0.21	0.04	0.21
(2,3740)	1:87:A:VAL:HG23	1:86:A:LYS:H	10	0.21	0.04	0.21
(2,3740)	1:87:A:VAL:HG21	1:86:A:LYS:H	10	0.21	0.04	0.21
(2,3783)	1:143:A:MET:HE2	1:143:A:MET:HB3	10	0.21	0.08	0.2
(2,3783)	1:143:A:MET:HE3	1:143:A:MET:HB3	10	0.21	0.08	0.2
(2,3783)	1:143:A:MET:HE1	1:143:A:MET:HB3	10	0.21	0.08	0.2
(2,3783)	1:143:A:MET:HE3	1:143:A:MET:HB2	10	0.21	0.08	0.2
(2,3783)	1:143:A:MET:HE2	1:143:A:MET:HB2	10	0.21	0.08	0.2
(2,2983)	1:4:A:THR:H	1:3:A:GLU:HB2	10	0.2	0.03	0.2
(2,1813)	1:86:A:LYS:HG3	1:86:A:LYS:HA	10	0.2	0.07	0.18
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	10	0.18	0.06	0.17
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG12	10	0.18	0.06	0.17
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG11	10	0.18	0.06	0.17
(2,3358)	1:112:A:ASP:HB2	1:112:A:ASP:H	10	0.17	0.01	0.17
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG21	10	0.15	0.03	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG23	10	0.15	0.03	0.14
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG22	10	0.15	0.03	0.14
(2,3568)	1:76:A:TRP:HE1	1:154:A:TYR:HE1	10	0.14	0.01	0.14
(2,4681)	1:141:A:LEU:HD21	1:137:A:ASN:H	10	0.14	0.02	0.13
(2,4681)	1:141:A:LEU:HD23	1:137:A:ASN:H	10	0.14	0.02	0.13
(2,4681)	1:141:A:LEU:HD22	1:137:A:ASN:H	10	0.14	0.02	0.13
(2,1769)	1:75:A:GLU:HG2	1:76:A:TRP:H	10	0.13	0.02	0.13
(2,4967)	1:76:A:TRP:HE1	1:76:A:TRP:HA	10	0.12	0.02	0.12
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG22	10	0.11	0.01	0.11
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG21	10	0.11	0.01	0.11
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG23	10	0.11	0.01	0.11
(2,4127)	1:149:A:ILE:HG21	1:149:A:ILE:HB	10	0.11	0.01	0.11
(2,4127)	1:149:A:ILE:HG22	1:149:A:ILE:HB	10	0.11	0.01	0.11
(2,4127)	1:149:A:ILE:HG23	1:149:A:ILE:HB	10	0.11	0.01	0.11
(2,4127)	1:149:A:ILE:HD12	1:149:A:ILE:HB	10	0.11	0.01	0.11
(2,4363)	1:5:A:VAL:HG13	1:5:A:VAL:HB	10	0.11	0.01	0.11
(2,4363)	1:5:A:VAL:HG22	1:5:A:VAL:HB	10	0.11	0.01	0.11
(2,4363)	1:5:A:VAL:HG12	1:5:A:VAL:HB	10	0.11	0.01	0.11
(2,4363)	1:5:A:VAL:HG21	1:5:A:VAL:HB	10	0.11	0.01	0.11
(2,4363)	1:5:A:VAL:HG11	1:5:A:VAL:HB	10	0.11	0.01	0.11
(2,2680)	1:139:A:ARG:HG2	1:155:A:THR:H	9	1.77	0.09	1.78
(2,1068)	1:159:A:ILE:HD13	1:145:A:LEU:HD21	9	1.44	0.44	1.21
(2,1068)	1:159:A:ILE:HD13	1:145:A:LEU:HD22	9	1.44	0.44	1.21
(2,1068)	1:159:A:ILE:HD12	1:145:A:LEU:HD23	9	1.44	0.44	1.21
(2,1068)	1:159:A:ILE:HD11	1:145:A:LEU:HD23	9	1.44	0.44	1.21
(2,1068)	1:159:A:ILE:HD12	1:145:A:LEU:HD21	9	1.44	0.44	1.21
(2,1068)	1:159:A:ILE:HD11	1:145:A:LEU:HD22	9	1.44	0.44	1.21
(2,1068)	1:159:A:ILE:HD11	1:145:A:LEU:HD21	9	1.44	0.44	1.21
(2,1068)	1:159:A:ILE:HD13	1:145:A:LEU:HD23	9	1.44	0.44	1.21
(2,1613)	1:50:A:GLU:HG2	1:68:A:ARG:HG3	9	1.31	0.55	1.33
(2,4984)	1:147:A:ASP:H	1:148:A:GLU:HB2	9	1.18	0.08	1.19
(2,4984)	1:147:A:ASP:H	1:143:A:MET:HB2	9	1.18	0.08	1.19
(2,4365)	1:145:A:LEU:HD23	1:146:A:GLN:HG3	9	1.12	0.51	1.33
(2,4365)	1:145:A:LEU:HD21	1:146:A:GLN:HG3	9	1.12	0.51	1.33
(2,4365)	1:145:A:LEU:HD22	1:146:A:GLN:HG3	9	1.12	0.51	1.33
(2,1953)	1:145:A:LEU:HD21	1:141:A:LEU:HB3	9	0.8	0.62	0.53
(2,1953)	1:145:A:LEU:HD22	1:141:A:LEU:HB3	9	0.8	0.62	0.53
(2,1953)	1:145:A:LEU:HD23	1:141:A:LEU:HB3	9	0.8	0.62	0.53
(2,223)	1:155:A:THR:HA	1:139:A:ARG:HG2	9	0.73	0.12	0.68
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD22	9	0.72	0.31	0.54
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD23	9	0.72	0.31	0.54
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD21	9	0.72	0.31	0.54

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3027)	1:10:A:ARG:HB2	1:11:A:LEU:H	9	0.69	0.42	1.0
(2,3045)	1:14:A:LYS:H	1:14:A:LYS:HG3	9	0.5	0.08	0.49
(2,193)	1:159:A:ILE:HA	1:160:A:ARG:HD3	9	0.48	0.43	0.12
(2,4423)	1:33:A:VAL:HG21	1:122:A:LEU:HG	9	0.47	0.2	0.46
(2,4423)	1:33:A:VAL:HG22	1:122:A:LEU:HG	9	0.47	0.2	0.46
(2,4423)	1:122:A:LEU:HG	1:33:A:VAL:HG11	9	0.47	0.2	0.46
(2,4423)	1:62:A:LEU:HD13	1:61:A:LYS:HG3	9	0.47	0.2	0.46
(2,4423)	1:33:A:VAL:HG23	1:122:A:LEU:HG	9	0.47	0.2	0.46
(2,2568)	1:108:A:GLY:H	1:107:A:ASP:HB3	9	0.45	0.1	0.45
(2,3990)	1:26:A:SER:HB2	1:25:A:PRO:HB2	9	0.44	0.1	0.46
(2,3990)	1:26:A:SER:HB3	1:25:A:PRO:HB2	9	0.44	0.1	0.46
(2,2470)	1:72:A:SER:H	1:75:A:GLU:HB3	9	0.42	0.19	0.47
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG23	9	0.38	0.19	0.35
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG21	9	0.38	0.19	0.35
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG22	9	0.38	0.19	0.35
(2,2005)	1:51:A:ILE:HD11	1:69:A:ARG:HA	9	0.38	0.17	0.4
(2,2005)	1:51:A:ILE:HD13	1:69:A:ARG:HA	9	0.38	0.17	0.4
(2,2005)	1:51:A:ILE:HD12	1:69:A:ARG:HA	9	0.38	0.17	0.4
(2,4008)	1:159:A:ILE:HD11	1:139:A:ARG:HB3	9	0.34	0.09	0.31
(2,4008)	1:159:A:ILE:HD12	1:139:A:ARG:HB3	9	0.34	0.09	0.31
(2,4008)	1:159:A:ILE:HD12	1:139:A:ARG:HB2	9	0.34	0.09	0.31
(2,4008)	1:159:A:ILE:HD11	1:139:A:ARG:HB2	9	0.34	0.09	0.31
(2,3115)	1:27:A:ASN:HB2	1:27:A:ASN:HD22	9	0.32	0.01	0.32
(2,2977)	1:3:A:GLU:HB2	1:3:A:GLU:H	9	0.31	0.14	0.24
(2,454)	1:141:A:LEU:HD13	1:77:A:LEU:HD13	9	0.28	0.1	0.29
(2,454)	1:141:A:LEU:HD13	1:77:A:LEU:HD12	9	0.28	0.1	0.29
(2,454)	1:141:A:LEU:HD12	1:77:A:LEU:HD13	9	0.28	0.1	0.29
(2,454)	1:141:A:LEU:HD11	1:77:A:LEU:HD12	9	0.28	0.1	0.29
(2,454)	1:141:A:LEU:HD12	1:77:A:LEU:HD12	9	0.28	0.1	0.29
(2,454)	1:141:A:LEU:HD11	1:77:A:LEU:HD11	9	0.28	0.1	0.29
(2,4265)	1:68:A:ARG:HD2	1:68:A:ARG:H	9	0.28	0.1	0.28
(2,4265)	1:68:A:ARG:HD3	1:68:A:ARG:H	9	0.28	0.1	0.28
(2,4722)	1:161:A:HIS:HA	1:160:A:ARG:H	9	0.28	0.12	0.22
(2,2776)	1:42:A:GLY:H	1:45:A:ARG:HD3	9	0.26	0.07	0.25
(2,4534)	1:149:A:ILE:HG22	1:150:A:ILE:HG13	9	0.26	0.07	0.26
(2,4534)	1:149:A:ILE:HG23	1:150:A:ILE:HG13	9	0.26	0.07	0.26
(2,4534)	1:149:A:ILE:HG21	1:150:A:ILE:HG13	9	0.26	0.07	0.26
(2,3201)	1:47:A:THR:H	1:46:A:PHE:HE2	9	0.26	0.07	0.27
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD12	9	0.24	0.08	0.24
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD13	9	0.24	0.08	0.24
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD11	9	0.24	0.08	0.24
(2,2373)	1:33:A:VAL:HG22	1:49:A:TYR:HE1	9	0.23	0.07	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2373)	1:33:A:VAL:HG21	1:49:A:TYR:HE1	9	0.23	0.07	0.2
(2,2373)	1:33:A:VAL:HG23	1:49:A:TYR:HE1	9	0.23	0.07	0.2
(2,4721)	1:160:A:ARG:H	1:158:A:LYS:HE2	9	0.23	0.06	0.22
(2,4721)	1:160:A:ARG:H	1:158:A:LYS:HE3	9	0.23	0.06	0.22
(2,1898)	1:115:A:ILE:HG22	1:116:A:GLU:HB2	9	0.22	0.04	0.23
(2,1898)	1:115:A:ILE:HG21	1:116:A:GLU:HB2	9	0.22	0.04	0.23
(2,1898)	1:115:A:ILE:HG23	1:116:A:GLU:HB2	9	0.22	0.04	0.23
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD23	9	0.22	0.03	0.22
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD22	9	0.22	0.03	0.22
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD21	9	0.22	0.03	0.22
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD12	9	0.22	0.04	0.21
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD13	9	0.22	0.04	0.21
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD11	9	0.22	0.04	0.21
(2,4592)	1:20:A:ASP:HB3	1:21:A:ALA:H	9	0.2	0.06	0.19
(2,4592)	1:20:A:ASP:HB2	1:21:A:ALA:H	9	0.2	0.06	0.19
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD12	9	0.19	0.07	0.22
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD13	9	0.19	0.07	0.22
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD11	9	0.19	0.07	0.22
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG12	9	0.19	0.12	0.14
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG13	9	0.19	0.12	0.14
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG11	9	0.19	0.12	0.14
(2,357)	1:89:A:VAL:HG11	1:125:A:PHE:HZ	9	0.19	0.07	0.15
(2,357)	1:89:A:VAL:HG12	1:125:A:PHE:HZ	9	0.19	0.07	0.15
(2,357)	1:89:A:VAL:HG13	1:125:A:PHE:HZ	9	0.19	0.07	0.15
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG23	9	0.18	0.06	0.17
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG22	9	0.18	0.06	0.17
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG21	9	0.18	0.06	0.17
(2,3715)	1:90:A:PRO:HD3	1:128:A:LYS:HD2	9	0.18	0.06	0.15
(2,3715)	1:90:A:PRO:HD3	1:128:A:LYS:HD3	9	0.18	0.06	0.15
(2,4665)	1:159:A:ILE:H	1:158:A:LYS:HE3	9	0.18	0.03	0.19
(2,4665)	1:159:A:ILE:H	1:158:A:LYS:HE2	9	0.18	0.03	0.19
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG21	9	0.17	0.04	0.17
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG22	9	0.17	0.04	0.17
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG23	9	0.17	0.04	0.17
(2,4719)	1:151:A:ASP:HB2	1:152:A:LYS:H	9	0.16	0.03	0.16
(2,948)	1:16:A:GLN:HB2	1:16:A:GLN:HA	9	0.13	0.0	0.13
(2,2317)	1:74:A:PHE:HB2	1:125:A:PHE:HD2	9	0.12	0.01	0.12
(2,4784)	1:23:A:GLY:H	1:24:A:PRO:HG2	9	0.12	0.02	0.11
(2,645)	1:128:A:LYS:HA	1:130:A:ALA:H	9	0.11	0.01	0.12
(2,4193)	1:50:A:GLU:HG3	1:68:A:ARG:HD2	8	0.67	0.16	0.62
(2,4193)	1:50:A:GLU:HG3	1:52:A:ARG:HD2	8	0.67	0.16	0.62
(2,4193)	1:50:A:GLU:HG3	1:68:A:ARG:HD3	8	0.67	0.16	0.62

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4209)	1:61:A:LYS:HE2	1:62:A:LEU:HD13	8	0.66	0.53	0.46
(2,4209)	1:61:A:LYS:HE3	1:62:A:LEU:HD13	8	0.66	0.53	0.46
(2,4209)	1:61:A:LYS:HE3	1:62:A:LEU:HD11	8	0.66	0.53	0.46
(2,4209)	1:61:A:LYS:HE2	1:62:A:LEU:HD12	8	0.66	0.53	0.46
(2,4209)	1:61:A:LYS:HE2	1:62:A:LEU:HD11	8	0.66	0.53	0.46
(2,4290)	1:54:A:LYS:HE2	1:64:A:GLU:HB2	8	0.65	0.29	0.62
(2,4396)	1:61:A:LYS:HD3	1:61:A:LYS:HA	8	0.57	0.1	0.58
(2,4396)	1:61:A:LYS:HD2	1:61:A:LYS:HA	8	0.57	0.1	0.58
(2,4653)	1:146:A:GLN:H	1:67:A:VAL:HG13	8	0.5	0.22	0.51
(2,4653)	1:146:A:GLN:H	1:67:A:VAL:HG12	8	0.5	0.22	0.51
(2,4653)	1:146:A:GLN:H	1:67:A:VAL:HG11	8	0.5	0.22	0.51
(2,4350)	1:145:A:LEU:HB3	1:145:A:LEU:HD23	8	0.46	0.21	0.5
(2,4350)	1:130:A:ALA:HB2	1:145:A:LEU:HD22	8	0.46	0.21	0.5
(2,4350)	1:130:A:ALA:HB3	1:145:A:LEU:HD22	8	0.46	0.21	0.5
(2,4350)	1:145:A:LEU:HB3	1:145:A:LEU:HD21	8	0.46	0.21	0.5
(2,4350)	1:130:A:ALA:HB1	1:145:A:LEU:HD22	8	0.46	0.21	0.5
(2,3747)	1:0:A:GLY:HA2	1:-1:A:VAL:HG22	8	0.46	0.27	0.42
(2,3747)	1:0:A:GLY:HA3	1:-1:A:VAL:HG12	8	0.46	0.27	0.42
(2,3747)	1:0:A:GLY:HA3	1:-1:A:VAL:HG22	8	0.46	0.27	0.42
(2,3747)	1:0:A:GLY:HA3	1:-1:A:VAL:HG11	8	0.46	0.27	0.42
(2,3747)	1:0:A:GLY:HA2	1:-1:A:VAL:HG23	8	0.46	0.27	0.42
(2,4030)	1:152:A:LYS:HD3	1:76:A:TRP:HD1	8	0.46	0.08	0.44
(2,4030)	1:152:A:LYS:HD2	1:76:A:TRP:HD1	8	0.46	0.08	0.44
(2,4118)	1:5:A:VAL:HG12	1:4:A:THR:HA	8	0.35	0.11	0.29
(2,4118)	1:5:A:VAL:HG22	1:4:A:THR:HA	8	0.35	0.11	0.29
(2,4118)	1:5:A:VAL:HG21	1:4:A:THR:HA	8	0.35	0.11	0.29
(2,4118)	1:5:A:VAL:HG23	1:4:A:THR:HA	8	0.35	0.11	0.29
(2,4659)	1:0:A:GLY:H	1:-1:A:VAL:HG12	8	0.34	0.2	0.3
(2,4659)	1:0:A:GLY:H	1:-1:A:VAL:HG13	8	0.34	0.2	0.3
(2,4272)	1:80:A:GLU:HA	1:77:A:LEU:HA	8	0.34	0.13	0.33
(2,4272)	1:80:A:GLU:HA	1:83:A:ARG:HD3	8	0.34	0.13	0.33
(2,3520)	1:161:A:HIS:HB3	1:162:A:ALA:H	8	0.34	0.21	0.25
(2,1566)	1:64:A:GLU:HB3	1:64:A:GLU:H	8	0.29	0.05	0.29
(2,3042)	1:14:A:LYS:H	1:14:A:LYS:HD3	8	0.29	0.19	0.2
(2,1371)	1:21:A:ALA:HB1	1:22:A:TYR:HD1	8	0.28	0.12	0.24
(2,1371)	1:21:A:ALA:HB3	1:22:A:TYR:HD1	8	0.28	0.12	0.24
(2,1371)	1:21:A:ALA:HB2	1:22:A:TYR:HD1	8	0.28	0.12	0.24
(2,1371)	1:21:A:ALA:HB2	1:22:A:TYR:HD2	8	0.28	0.12	0.24
(2,2423)	1:21:A:ALA:H	1:22:A:TYR:HD1	8	0.24	0.12	0.22
(2,2423)	1:21:A:ALA:H	1:22:A:TYR:HD2	8	0.24	0.12	0.22
(2,1756)	1:92:A:LEU:HD11	1:75:A:GLU:HB2	8	0.23	0.07	0.22
(2,1756)	1:92:A:LEU:HD13	1:75:A:GLU:HB2	8	0.23	0.07	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1756)	1:92:A:LEU:HD12	1:75:A:GLU:HB2	8	0.23	0.07	0.22
(2,541)	1:143:A:MET:HE2	1:144:A:PHE:HD2	8	0.23	0.12	0.18
(2,541)	1:143:A:MET:HE2	1:144:A:PHE:HD1	8	0.23	0.12	0.18
(2,541)	1:143:A:MET:HE3	1:144:A:PHE:HD1	8	0.23	0.12	0.18
(2,541)	1:143:A:MET:HE3	1:144:A:PHE:HD2	8	0.23	0.12	0.18
(2,541)	1:143:A:MET:HE1	1:144:A:PHE:HD2	8	0.23	0.12	0.18
(2,2519)	1:92:A:LEU:H	1:71:A:TYR:HE1	8	0.23	0.05	0.24
(2,4668)	1:157:A:SER:H	1:139:A:ARG:HG3	8	0.22	0.07	0.22
(2,3523)	1:162:A:ALA:HB2	1:162:A:ALA:H	8	0.22	0.09	0.23
(2,3523)	1:162:A:ALA:HB1	1:162:A:ALA:H	8	0.22	0.09	0.23
(2,3523)	1:162:A:ALA:HB3	1:162:A:ALA:H	8	0.22	0.09	0.23
(2,3338)	1:105:A:GLY:HA3	1:106:A:ASP:H	8	0.22	0.0	0.22
(2,3690)	1:150:A:ILE:HD13	1:143:A:MET:HG3	8	0.22	0.08	0.2
(2,3690)	1:150:A:ILE:HD11	1:143:A:MET:HG3	8	0.22	0.08	0.2
(2,3690)	1:150:A:ILE:HD12	1:143:A:MET:HG3	8	0.22	0.08	0.2
(2,4618)	1:85:A:SER:H	1:86:A:LYS:HG3	8	0.22	0.1	0.17
(2,2700)	1:37:A:GLN:HE22	1:39:A:VAL:H	8	0.21	0.05	0.24
(2,133)	1:67:A:VAL:HG12	1:66:A:THR:H	8	0.21	0.06	0.2
(2,133)	1:67:A:VAL:HG13	1:66:A:THR:H	8	0.21	0.06	0.2
(2,133)	1:67:A:VAL:HG11	1:66:A:THR:H	8	0.21	0.06	0.2
(2,368)	1:82:A:GLU:HA	1:89:A:VAL:HG22	8	0.2	0.08	0.18
(2,368)	1:82:A:GLU:HA	1:89:A:VAL:HG21	8	0.2	0.08	0.18
(2,368)	1:82:A:GLU:HA	1:89:A:VAL:HG23	8	0.2	0.08	0.18
(2,2149)	1:33:A:VAL:HG13	1:32:A:ASP:H	8	0.2	0.06	0.19
(2,2149)	1:33:A:VAL:HG12	1:32:A:ASP:H	8	0.2	0.06	0.19
(2,2149)	1:33:A:VAL:HG11	1:32:A:ASP:H	8	0.2	0.06	0.19
(2,3253)	1:55:A:THR:HG23	1:64:A:GLU:H	8	0.2	0.05	0.19
(2,3253)	1:55:A:THR:HG21	1:64:A:GLU:H	8	0.2	0.05	0.19
(2,3253)	1:55:A:THR:HG22	1:64:A:GLU:H	8	0.2	0.05	0.19
(2,362)	1:89:A:VAL:HG22	1:87:A:VAL:H	8	0.17	0.03	0.17
(2,362)	1:89:A:VAL:HG21	1:87:A:VAL:H	8	0.17	0.03	0.17
(2,362)	1:89:A:VAL:HG23	1:87:A:VAL:H	8	0.17	0.03	0.17
(2,351)	1:42:A:GLY:HA3	1:41:A:VAL:HG11	8	0.16	0.02	0.17
(2,351)	1:42:A:GLY:HA3	1:41:A:VAL:HG12	8	0.16	0.02	0.17
(2,351)	1:42:A:GLY:HA3	1:41:A:VAL:HG13	8	0.16	0.02	0.17
(2,516)	1:122:A:LEU:HD12	1:92:A:LEU:HA	8	0.16	0.05	0.14
(2,516)	1:122:A:LEU:HD11	1:92:A:LEU:HA	8	0.16	0.05	0.14
(2,516)	1:122:A:LEU:HD13	1:92:A:LEU:HA	8	0.16	0.05	0.14
(2,4983)	1:80:A:GLU:H	1:125:A:PHE:HZ	8	0.16	0.03	0.16
(2,3670)	1:58:A:PRO:HA	1:58:A:PRO:HD2	8	0.16	0.02	0.16
(2,4162)	1:134:A:LEU:HB3	1:134:A:LEU:HD12	8	0.15	0.02	0.16
(2,4162)	1:134:A:LEU:HB3	1:134:A:LEU:HD11	8	0.15	0.02	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4162)	1:134:A:LEU:HB3	1:134:A:LEU:HD13	8	0.15	0.02	0.16
(2,3974)	1:3:A:GLU:HG3	1:3:A:GLU:HB3	8	0.14	0.03	0.13
(2,3974)	1:3:A:GLU:HG2	1:3:A:GLU:HB3	8	0.14	0.03	0.13
(2,4078)	1:152:A:LYS:HB2	1:152:A:LYS:HD2	8	0.12	0.02	0.12
(2,3770)	1:126:A:ILE:HG23	1:123:A:GLU:H	8	0.12	0.02	0.12
(2,3770)	1:126:A:ILE:HG22	1:123:A:GLU:H	8	0.12	0.02	0.12
(2,3770)	1:126:A:ILE:HG21	1:123:A:GLU:H	8	0.12	0.02	0.12
(2,3406)	1:123:A:GLU:H	1:124:A:GLN:HA	8	0.12	0.01	0.12
(2,2270)	1:145:A:LEU:HD12	1:144:A:PHE:HD1	7	1.15	0.43	1.36
(2,2270)	1:145:A:LEU:HD13	1:144:A:PHE:HD1	7	1.15	0.43	1.36
(2,2270)	1:145:A:LEU:HD11	1:144:A:PHE:HD2	7	1.15	0.43	1.36
(2,2270)	1:145:A:LEU:HD12	1:144:A:PHE:HD2	7	1.15	0.43	1.36
(2,3748)	1:0:A:GLY:HA2	1:1:A:THR:HG21	7	1.02	0.52	1.26
(2,3748)	1:0:A:GLY:HA2	1:1:A:THR:HG23	7	1.02	0.52	1.26
(2,3748)	1:0:A:GLY:HA3	1:1:A:THR:HG22	7	1.02	0.52	1.26
(2,3748)	1:0:A:GLY:HA3	1:1:A:THR:HG23	7	1.02	0.52	1.26
(2,3748)	1:0:A:GLY:HA3	1:1:A:THR:HG21	7	1.02	0.52	1.26
(2,3540)	1:100:A:GLN:HE22	1:100:A:GLN:HA	7	0.78	0.03	0.78
(2,4460)	1:61:A:LYS:HB2	1:61:A:LYS:HE3	7	0.72	0.25	0.73
(2,4460)	1:61:A:LYS:HB2	1:61:A:LYS:HE2	7	0.72	0.25	0.73
(2,650)	1:128:A:LYS:HG3	1:129:A:VAL:HG13	7	0.61	0.01	0.61
(2,650)	1:128:A:LYS:HG3	1:129:A:VAL:HG12	7	0.61	0.01	0.61
(2,650)	1:128:A:LYS:HG3	1:129:A:VAL:HG11	7	0.61	0.01	0.61
(2,4144)	1:64:A:GLU:HG2	1:54:A:LYS:HE3	7	0.6	0.21	0.62
(2,2579)	1:99:A:ARG:H	1:99:A:ARG:HG3	7	0.54	0.07	0.57
(2,2258)	1:130:A:ALA:HB2	1:136:A:GLN:HE22	7	0.53	0.13	0.49
(2,2258)	1:130:A:ALA:HB1	1:136:A:GLN:HE22	7	0.53	0.13	0.49
(2,2258)	1:130:A:ALA:HB3	1:136:A:GLN:HE22	7	0.53	0.13	0.49
(2,15)	1:32:A:ASP:HB2	1:52:A:ARG:HB3	7	0.52	0.62	0.15
(2,949)	1:10:A:ARG:HA	1:10:A:ARG:HB2	7	0.47	0.01	0.47
(2,2754)	1:18:A:LEU:H	1:17:A:ASN:HD22	7	0.4	0.24	0.3
(2,3737)	1:87:A:VAL:HA	1:134:A:LEU:HG	7	0.31	0.04	0.33
(2,3056)	1:16:A:GLN:H	1:16:A:GLN:HE22	7	0.3	0.13	0.25
(2,2298)	1:18:A:LEU:HD23	1:17:A:ASN:H	7	0.29	0.1	0.26
(2,2298)	1:18:A:LEU:HD22	1:17:A:ASN:H	7	0.29	0.1	0.26
(2,2298)	1:18:A:LEU:HD21	1:17:A:ASN:H	7	0.29	0.1	0.26
(2,4774)	1:11:A:LEU:H	1:10:A:ARG:HD3	7	0.28	0.08	0.28
(2,4774)	1:11:A:LEU:H	1:10:A:ARG:HD2	7	0.28	0.08	0.28
(2,3763)	1:53:A:VAL:HG21	1:64:A:GLU:HB3	7	0.27	0.09	0.33
(2,3763)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	7	0.27	0.09	0.33
(2,3763)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	7	0.27	0.09	0.33
(2,4498)	1:137:A:ASN:HB2	1:138:A:GLU:HG2	7	0.26	0.14	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4498)	1:137:A:ASN:HB2	1:136:A:GLN:HB3	7	0.26	0.14	0.2
(2,897)	1:113:A:ASN:HB2	1:117:A:GLU:HG3	7	0.24	0.08	0.28
(2,1128)	1:152:A:LYS:HE2	1:152:A:LYS:H	7	0.24	0.12	0.17
(2,2860)	1:105:A:GLY:H	1:103:A:PHE:HD1	7	0.23	0.05	0.23
(2,2860)	1:105:A:GLY:H	1:103:A:PHE:HD2	7	0.23	0.05	0.23
(2,4243)	1:34:A:SER:HB3	1:32:A:ASP:HB3	7	0.23	0.12	0.18
(2,4100)	1:59:A:ILE:HG21	1:141:A:LEU:HB2	7	0.18	0.04	0.17
(2,4100)	1:59:A:ILE:HG22	1:141:A:LEU:HB2	7	0.18	0.04	0.17
(2,4100)	1:59:A:ILE:HG23	1:141:A:LEU:HB2	7	0.18	0.04	0.17
(2,2404)	1:112:A:ASP:HB3	1:115:A:ILE:HD11	7	0.17	0.01	0.17
(2,2404)	1:112:A:ASP:HB3	1:115:A:ILE:HD12	7	0.17	0.01	0.17
(2,2404)	1:112:A:ASP:HB3	1:115:A:ILE:HD13	7	0.17	0.01	0.17
(2,2739)	1:137:A:ASN:H	1:136:A:GLN:HG3	7	0.17	0.09	0.14
(2,3987)	1:26:A:SER:HB2	1:27:A:ASN:HB3	7	0.16	0.05	0.15
(2,3987)	1:26:A:SER:HB3	1:27:A:ASN:HB3	7	0.16	0.05	0.15
(2,1398)	1:33:A:VAL:HG12	1:74:A:PHE:HD2	7	0.15	0.04	0.16
(2,1398)	1:33:A:VAL:HG11	1:74:A:PHE:HD2	7	0.15	0.04	0.16
(2,1398)	1:33:A:VAL:HG13	1:74:A:PHE:HD2	7	0.15	0.04	0.16
(2,3908)	1:119:A:LYS:HD2	1:119:A:LYS:H	7	0.14	0.03	0.14
(2,687)	1:82:A:GLU:HG2	1:83:A:ARG:H	7	0.13	0.04	0.11
(2,1791)	1:83:A:ARG:HD2	1:83:A:ARG:H	7	0.13	0.01	0.12
(2,4001)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	7	0.11	0.01	0.1
(2,4001)	1:149:A:ILE:HG12	1:149:A:ILE:HD13	7	0.11	0.01	0.1
(2,4001)	1:149:A:ILE:HG12	1:149:A:ILE:HD11	7	0.11	0.01	0.1
(2,4001)	1:149:A:ILE:HG12	1:149:A:ILE:HG21	7	0.11	0.01	0.1
(2,1045)	1:148:A:GLU:HB2	1:149:A:ILE:HG12	6	1.47	0.03	1.46
(2,2542)	1:85:A:SER:HB2	1:87:A:VAL:H	6	0.8	0.06	0.82
(2,76)	1:80:A:GLU:HA	1:83:A:ARG:HB2	6	0.76	0.09	0.78
(2,1110)	1:148:A:GLU:HG3	1:149:A:ILE:HD11	6	0.72	0.08	0.72
(2,1110)	1:148:A:GLU:HG3	1:149:A:ILE:HD13	6	0.72	0.08	0.72
(2,1110)	1:148:A:GLU:HG3	1:149:A:ILE:HD12	6	0.72	0.08	0.72
(2,3571)	1:76:A:TRP:HE1	1:150:A:ILE:HG13	6	0.53	0.19	0.59
(2,4678)	1:19:A:ASN:HD21	1:18:A:LEU:HB3	6	0.47	0.08	0.49
(2,941)	1:109:A:ILE:HD12	1:107:A:ASP:HB3	6	0.46	0.25	0.36
(2,941)	1:109:A:ILE:HD13	1:107:A:ASP:HB3	6	0.46	0.25	0.36
(2,941)	1:109:A:ILE:HD11	1:107:A:ASP:HB3	6	0.46	0.25	0.36
(2,4287)	1:86:A:LYS:HE2	1:134:A:LEU:HD12	6	0.41	0.2	0.38
(2,4287)	1:86:A:LYS:HE3	1:134:A:LEU:HD13	6	0.41	0.2	0.38
(2,4287)	1:86:A:LYS:HE3	1:134:A:LEU:HD12	6	0.41	0.2	0.38
(2,4544)	1:85:A:SER:HB3	1:86:A:LYS:HG3	6	0.4	0.09	0.4
(2,4043)	1:45:A:ARG:HD2	1:45:A:ARG:H	6	0.38	0.17	0.42
(2,4043)	1:45:A:ARG:HD2	1:110:A:PHE:HD2	6	0.38	0.17	0.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4043)	1:45:A:ARG:HD2	1:110:A:PHE:HD1	6	0.38	0.17	0.42
(2,1318)	1:148:A:GLU:HB2	1:149:A:ILE:HG21	6	0.36	0.06	0.36
(2,1318)	1:148:A:GLU:HB2	1:149:A:ILE:HG23	6	0.36	0.06	0.36
(2,4218)	1:93:A:PRO:HA	1:93:A:PRO:HG3	6	0.36	0.05	0.37
(2,4218)	1:93:A:PRO:HA	1:93:A:PRO:HG2	6	0.36	0.05	0.37
(2,4726)	1:50:A:GLU:H	1:68:A:ARG:HG3	6	0.34	0.05	0.34
(2,1197)	1:29:A:LEU:HD21	1:136:A:GLN:HG3	6	0.33	0.19	0.28
(2,1197)	1:29:A:LEU:HD23	1:136:A:GLN:HG3	6	0.33	0.19	0.28
(2,1380)	1:135:A:ALA:HB2	1:141:A:LEU:HD21	6	0.33	0.09	0.33
(2,1380)	1:135:A:ALA:HB1	1:141:A:LEU:HD23	6	0.33	0.09	0.33
(2,1380)	1:135:A:ALA:HB3	1:141:A:LEU:HD21	6	0.33	0.09	0.33
(2,1380)	1:135:A:ALA:HB2	1:141:A:LEU:HD23	6	0.33	0.09	0.33
(2,4968)	1:152:A:LYS:HD2	1:76:A:TRP:HE1	6	0.33	0.17	0.29
(2,4968)	1:152:A:LYS:HD3	1:76:A:TRP:HE1	6	0.33	0.17	0.29
(2,1093)	1:139:A:ARG:HG2	1:154:A:TYR:HE2	6	0.32	0.13	0.3
(2,2222)	1:78:A:ARG:HG2	1:92:A:LEU:HD11	6	0.31	0.18	0.24
(2,2222)	1:78:A:ARG:HG2	1:92:A:LEU:HD13	6	0.31	0.18	0.24
(2,1018)	1:148:A:GLU:HB2	1:148:A:GLU:HG3	6	0.3	0.01	0.3
(2,4777)	1:11:A:LEU:HD23	1:12:A:ILE:H	6	0.3	0.1	0.28
(2,4777)	1:11:A:LEU:HD21	1:12:A:ILE:H	6	0.3	0.1	0.28
(2,4777)	1:11:A:LEU:HD13	1:12:A:ILE:H	6	0.3	0.1	0.28
(2,4777)	1:11:A:LEU:HD11	1:12:A:ILE:H	6	0.3	0.1	0.28
(2,1793)	1:83:A:ARG:HD3	1:83:A:ARG:HA	6	0.28	0.03	0.29
(2,2524)	1:83:A:ARG:HB2	1:83:A:ARG:H	6	0.25	0.03	0.25
(2,1050)	1:148:A:GLU:HB2	1:149:A:ILE:HG13	6	0.25	0.03	0.24
(2,1955)	1:145:A:LEU:HB2	1:145:A:LEU:HD23	6	0.24	0.03	0.24
(2,1955)	1:145:A:LEU:HB2	1:145:A:LEU:HD21	6	0.24	0.03	0.24
(2,1955)	1:145:A:LEU:HB2	1:145:A:LEU:HD22	6	0.24	0.03	0.24
(2,4079)	1:152:A:LYS:HB3	1:152:A:LYS:HD3	6	0.24	0.04	0.24
(2,1709)	1:20:A:ASP:HA	1:21:A:ALA:HB2	6	0.23	0.08	0.26
(2,1709)	1:20:A:ASP:HA	1:21:A:ALA:HB1	6	0.23	0.08	0.26
(2,1709)	1:20:A:ASP:HA	1:21:A:ALA:HB3	6	0.23	0.08	0.26
(2,1310)	1:149:A:ILE:HG21	1:148:A:GLU:H	6	0.23	0.1	0.2
(2,1310)	1:149:A:ILE:HG23	1:148:A:GLU:H	6	0.23	0.1	0.2
(2,2833)	1:113:A:ASN:HD22	1:113:A:ASN:HA	6	0.23	0.06	0.24
(2,1634)	1:156:A:PRO:HA	1:154:A:TYR:HE2	6	0.22	0.08	0.21
(2,1634)	1:156:A:PRO:HA	1:154:A:TYR:HE1	6	0.22	0.08	0.21
(2,3378)	1:112:A:ASP:HB3	1:113:A:ASN:H	6	0.22	0.04	0.22
(2,4264)	1:52:A:ARG:HD3	1:53:A:VAL:H	6	0.21	0.09	0.19
(2,3090)	1:23:A:GLY:H	1:21:A:ALA:HB3	6	0.2	0.07	0.17
(2,3090)	1:23:A:GLY:H	1:21:A:ALA:HB2	6	0.2	0.07	0.17
(2,2783)	1:41:A:VAL:H	1:45:A:ARG:HD3	6	0.2	0.07	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4281)	1:85:A:SER:HB2	1:84:A:GLU:HA	6	0.2	0.1	0.15
(2,4281)	1:85:A:SER:HB2	1:86:A:LYS:HA	6	0.2	0.1	0.15
(2,1777)	1:80:A:GLU:HG2	1:80:A:GLU:H	6	0.19	0.02	0.2
(2,4844)	1:73:A:ASP:H	1:49:A:TYR:HD2	6	0.19	0.07	0.16
(2,4844)	1:73:A:ASP:H	1:49:A:TYR:HD1	6	0.19	0.07	0.16
(2,2045)	1:51:A:ILE:HG12	1:33:A:VAL:HA	6	0.19	0.08	0.16
(2,954)	1:148:A:GLU:HB2	1:149:A:ILE:H	6	0.19	0.03	0.18
(2,4864)	1:107:A:ASP:H	1:108:A:GLY:HA2	6	0.19	0.05	0.18
(2,2971)	1:2:A:ALA:H	1:1:A:THR:HG22	6	0.18	0.11	0.12
(2,2971)	1:2:A:ALA:H	1:1:A:THR:HG21	6	0.18	0.11	0.12
(2,2971)	1:2:A:ALA:H	1:1:A:THR:HG23	6	0.18	0.11	0.12
(2,1700)	1:115:A:ILE:HG22	1:36:A:PRO:HD2	6	0.18	0.06	0.15
(2,1700)	1:115:A:ILE:HG23	1:36:A:PRO:HD2	6	0.18	0.06	0.15
(2,1700)	1:115:A:ILE:HG21	1:36:A:PRO:HD2	6	0.18	0.06	0.15
(2,4326)	1:33:A:VAL:HG21	1:125:A:PHE:HD2	6	0.18	0.05	0.16
(2,4326)	1:33:A:VAL:HG22	1:125:A:PHE:HD2	6	0.18	0.05	0.16
(2,4326)	1:33:A:VAL:HG23	1:125:A:PHE:HD2	6	0.18	0.05	0.16
(2,4484)	1:95:A:LYS:HG2	1:95:A:LYS:HE2	6	0.17	0.04	0.18
(2,1032)	1:148:A:GLU:HG3	1:67:A:VAL:HG13	6	0.17	0.07	0.16
(2,1032)	1:148:A:GLU:HG3	1:67:A:VAL:HG12	6	0.17	0.07	0.16
(2,1032)	1:148:A:GLU:HG3	1:67:A:VAL:HG11	6	0.17	0.07	0.16
(2,1290)	1:51:A:ILE:HD12	1:49:A:TYR:HB3	6	0.16	0.03	0.16
(2,1290)	1:51:A:ILE:HD13	1:49:A:TYR:HB3	6	0.16	0.03	0.16
(2,2321)	1:81:A:LEU:HD23	1:87:A:VAL:HB	6	0.16	0.04	0.16
(2,2321)	1:81:A:LEU:HD21	1:87:A:VAL:HB	6	0.16	0.04	0.16
(2,2321)	1:81:A:LEU:HD22	1:87:A:VAL:HB	6	0.16	0.04	0.16
(2,4905)	1:126:A:ILE:H	1:51:A:ILE:HG13	6	0.16	0.03	0.16
(2,4905)	1:126:A:ILE:H	1:51:A:ILE:HG12	6	0.16	0.03	0.16
(2,1716)	1:61:A:LYS:HG3	1:61:A:LYS:HB3	6	0.15	0.01	0.15
(2,2761)	1:45:A:ARG:HD3	1:45:A:ARG:H	6	0.14	0.03	0.14
(2,4269)	1:52:A:ARG:HB2	1:52:A:ARG:HD2	6	0.13	0.02	0.12
(2,4269)	1:68:A:ARG:HG2	1:68:A:ARG:HD3	6	0.13	0.02	0.12
(2,4269)	1:68:A:ARG:HG2	1:68:A:ARG:HD2	6	0.13	0.02	0.12
(2,4269)	1:52:A:ARG:HB2	1:52:A:ARG:HD3	6	0.13	0.02	0.12
(1,21)	1:74:A:PHE:H	1:70:A:ARG:O	6	0.13	0.02	0.12
(2,1387)	1:41:A:VAL:HG21	1:41:A:VAL:HA	6	0.12	0.01	0.12
(2,1387)	1:41:A:VAL:HG22	1:41:A:VAL:HA	6	0.12	0.01	0.12
(2,1387)	1:41:A:VAL:HG23	1:41:A:VAL:HA	6	0.12	0.01	0.12
(2,2535)	1:85:A:SER:HB3	1:85:A:SER:H	6	0.12	0.01	0.12
(2,1609)	1:50:A:GLU:HG3	1:35:A:ASN:HB3	6	0.11	0.02	0.1
(2,1944)	1:144:A:PHE:HA	1:144:A:PHE:HZ	6	0.11	0.02	0.11
(2,2105)	1:14:A:LYS:HE3	1:13:A:THR:H	5	0.78	0.43	0.84

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2151)	1:122:A:LEU:HD21	1:33:A:VAL:HG11	5	0.74	0.44	1.05
(2,2151)	1:122:A:LEU:HD23	1:33:A:VAL:HG13	5	0.74	0.44	1.05
(2,2151)	1:122:A:LEU:HD23	1:33:A:VAL:HG12	5	0.74	0.44	1.05
(2,2151)	1:122:A:LEU:HD23	1:33:A:VAL:HG11	5	0.74	0.44	1.05
(2,2968)	1:1:A:THR:H	1:1:A:THR:HG21	5	0.69	0.11	0.73
(2,2968)	1:1:A:THR:H	1:1:A:THR:HG22	5	0.69	0.11	0.73
(2,2968)	1:1:A:THR:H	1:1:A:THR:HG23	5	0.69	0.11	0.73
(2,550)	1:143:A:MET:HE2	1:150:A:ILE:HG13	5	0.67	0.02	0.66
(2,550)	1:143:A:MET:HE1	1:150:A:ILE:HG13	5	0.67	0.02	0.66
(2,550)	1:143:A:MET:HE3	1:150:A:ILE:HG13	5	0.67	0.02	0.66
(2,2521)	1:83:A:ARG:H	1:85:A:SER:HB2	5	0.56	0.22	0.66
(2,4928)	1:137:A:ASN:HD21	1:160:A:ARG:HB2	5	0.49	0.18	0.54
(2,4928)	1:137:A:ASN:HD21	1:160:A:ARG:HB3	5	0.49	0.18	0.54
(2,264)	1:150:A:ILE:HG21	1:150:A:ILE:HG13	5	0.48	0.02	0.47
(2,264)	1:150:A:ILE:HG22	1:150:A:ILE:HG13	5	0.48	0.02	0.47
(2,264)	1:150:A:ILE:HG23	1:150:A:ILE:HG13	5	0.48	0.02	0.47
(2,4955)	1:100:A:GLN:HE22	1:101:A:LEU:HD22	5	0.47	0.61	0.17
(2,4955)	1:100:A:GLN:HE22	1:101:A:LEU:HD21	5	0.47	0.61	0.17
(2,4955)	1:100:A:GLN:HE22	1:101:A:LEU:HD12	5	0.47	0.61	0.17
(2,4955)	1:100:A:GLN:HE22	1:101:A:LEU:HD23	5	0.47	0.61	0.17
(2,1020)	1:148:A:GLU:HB3	1:67:A:VAL:HG12	5	0.45	0.13	0.46
(2,1020)	1:148:A:GLU:HB3	1:67:A:VAL:HG11	5	0.45	0.13	0.46
(2,243)	1:150:A:ILE:HD11	1:150:A:ILE:H	5	0.45	0.09	0.48
(2,243)	1:150:A:ILE:HD13	1:150:A:ILE:H	5	0.45	0.09	0.48
(2,243)	1:150:A:ILE:HD12	1:150:A:ILE:H	5	0.45	0.09	0.48
(2,4581)	1:106:A:ASP:HB3	1:105:A:GLY:HA2	5	0.42	0.26	0.22
(2,4581)	1:147:A:ASP:HB2	1:148:A:GLU:HA	5	0.42	0.26	0.22
(2,60)	1:81:A:LEU:HA	1:85:A:SER:HB2	5	0.38	0.24	0.29
(2,3019)	1:9:A:ARG:H	1:7:A:ASP:HB2	5	0.29	0.04	0.27
(2,521)	1:122:A:LEU:HD13	1:49:A:TYR:HD1	5	0.29	0.21	0.23
(2,521)	1:122:A:LEU:HD13	1:49:A:TYR:HD2	5	0.29	0.21	0.23
(2,521)	1:122:A:LEU:HD12	1:49:A:TYR:HD2	5	0.29	0.21	0.23
(2,855)	1:115:A:ILE:HG21	1:112:A:ASP:HA	5	0.29	0.12	0.32
(2,855)	1:115:A:ILE:HG23	1:112:A:ASP:HA	5	0.29	0.12	0.32
(2,855)	1:115:A:ILE:HG22	1:112:A:ASP:HA	5	0.29	0.12	0.32
(2,4407)	1:14:A:LYS:HA	1:14:A:LYS:HG2	5	0.27	0.08	0.31
(2,549)	1:143:A:MET:HE2	1:150:A:ILE:HG12	5	0.26	0.2	0.17
(2,549)	1:143:A:MET:HE3	1:150:A:ILE:HG12	5	0.26	0.2	0.17
(2,4006)	1:139:A:ARG:HD2	1:139:A:ARG:HB2	5	0.25	0.07	0.27
(2,2271)	1:145:A:LEU:HD11	1:60:A:PHE:HZ	5	0.25	0.02	0.24
(2,2271)	1:145:A:LEU:HD12	1:60:A:PHE:HZ	5	0.25	0.02	0.24
(2,2271)	1:145:A:LEU:HD13	1:60:A:PHE:HZ	5	0.25	0.02	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3284)	1:68:A:ARG:H	1:50:A:GLU:HG2	5	0.25	0.11	0.28
(2,3790)	1:143:A:MET:HA	1:147:A:ASP:HB2	5	0.24	0.04	0.26
(2,3790)	1:143:A:MET:HA	1:143:A:MET:HG2	5	0.24	0.04	0.26
(2,3790)	1:120:A:GLN:HA	1:120:A:GLN:HG2	5	0.24	0.04	0.26
(2,2571)	1:96:A:ALA:H	1:95:A:LYS:HB2	5	0.23	0.03	0.23
(2,1257)	1:150:A:ILE:HG22	1:152:A:LYS:HG2	5	0.23	0.05	0.23
(2,1257)	1:150:A:ILE:HG23	1:152:A:LYS:HG2	5	0.23	0.05	0.23
(2,1257)	1:150:A:ILE:HG21	1:152:A:LYS:HG2	5	0.23	0.05	0.23
(2,3408)	1:143:A:MET:H	1:144:A:PHE:HD2	5	0.22	0.06	0.18
(2,3408)	1:143:A:MET:H	1:144:A:PHE:HD1	5	0.22	0.06	0.18
(2,4630)	1:7:A:ASP:H	1:5:A:VAL:HG13	5	0.21	0.1	0.15
(2,4630)	1:7:A:ASP:H	1:5:A:VAL:HG23	5	0.21	0.1	0.15
(2,4630)	1:7:A:ASP:H	1:5:A:VAL:HG12	5	0.21	0.1	0.15
(2,4838)	1:65:A:SER:H	1:55:A:THR:HG22	5	0.21	0.11	0.17
(2,8)	1:131:A:GLY:HA3	1:136:A:GLN:HE21	5	0.2	0.14	0.13
(2,4202)	1:159:A:ILE:HG22	1:160:A:ARG:HD3	5	0.2	0.12	0.14
(2,4202)	1:159:A:ILE:HG23	1:160:A:ARG:HD3	5	0.2	0.12	0.14
(2,4202)	1:159:A:ILE:HG21	1:160:A:ARG:HD3	5	0.2	0.12	0.14
(2,4138)	1:137:A:ASN:HB3	1:134:A:LEU:HB3	5	0.2	0.06	0.18
(2,1692)	1:34:A:SER:HB3	1:119:A:LYS:HD3	5	0.19	0.11	0.13
(2,4673)	1:120:A:GLN:HE22	1:117:A:GLU:HB3	5	0.19	0.06	0.22
(2,3012)	1:8:A:THR:H	1:7:A:ASP:HB2	5	0.19	0.06	0.18
(2,1100)	1:11:A:LEU:HB3	1:11:A:LEU:H	5	0.18	0.05	0.21
(2,1263)	1:152:A:LYS:HB3	1:76:A:TRP:HE1	5	0.16	0.03	0.16
(2,1706)	1:47:A:THR:HG23	1:36:A:PRO:HG2	5	0.16	0.04	0.19
(2,1706)	1:47:A:THR:HG21	1:36:A:PRO:HG2	5	0.16	0.04	0.19
(2,3235)	1:54:A:LYS:H	1:31:A:ILE:HD12	5	0.16	0.07	0.13
(2,3235)	1:54:A:LYS:H	1:31:A:ILE:HD11	5	0.16	0.07	0.13
(2,3235)	1:54:A:LYS:H	1:31:A:ILE:HD13	5	0.16	0.07	0.13
(2,4432)	1:30:A:GLU:HB3	1:28:A:PHE:HE1	5	0.16	0.05	0.15
(2,4816)	1:81:A:LEU:HD11	1:81:A:LEU:H	5	0.15	0.03	0.16
(2,4816)	1:81:A:LEU:HD13	1:81:A:LEU:H	5	0.15	0.03	0.16
(2,4816)	1:81:A:LEU:HD23	1:81:A:LEU:H	5	0.15	0.03	0.16
(2,4816)	1:81:A:LEU:HD22	1:81:A:LEU:H	5	0.15	0.03	0.16
(2,3530)	1:2:A:ALA:H	1:1:A:THR:HB	5	0.14	0.03	0.14
(2,2672)	1:102:A:PRO:HB2	1:103:A:PHE:H	5	0.13	0.04	0.11
(2,3248)	1:129:A:VAL:HG23	1:132:A:HIS:H	5	0.13	0.02	0.12
(2,3248)	1:129:A:VAL:HG22	1:132:A:HIS:H	5	0.13	0.02	0.12
(2,3248)	1:129:A:VAL:HG21	1:132:A:HIS:H	5	0.13	0.02	0.12
(2,2624)	1:148:A:GLU:H	1:147:A:ASP:HB3	5	0.13	0.03	0.11
(2,4050)	1:29:A:LEU:HD13	1:57:A:LEU:HG	5	0.13	0.03	0.12
(2,4050)	1:29:A:LEU:HD12	1:57:A:LEU:HG	5	0.13	0.03	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2885)	1:160:A:ARG:H	1:137:A:ASN:HD22	5	0.13	0.01	0.13
(2,3856)	1:124:A:GLN:HA	1:124:A:GLN:HG2	5	0.12	0.01	0.12
(2,4430)	1:26:A:SER:HB2	1:26:A:SER:HA	5	0.12	0.02	0.12
(2,1113)	1:149:A:ILE:HD13	1:149:A:ILE:HB	5	0.12	0.01	0.12
(2,1113)	1:149:A:ILE:HD11	1:149:A:ILE:HB	5	0.12	0.01	0.12
(2,1113)	1:149:A:ILE:HD12	1:149:A:ILE:HB	5	0.12	0.01	0.12
(2,3036)	1:13:A:THR:H	1:12:A:ILE:HB	5	0.12	0.01	0.12
(2,4884)	1:116:A:GLU:HG2	1:120:A:GLN:HE21	5	0.11	0.01	0.11
(2,1450)	1:90:A:PRO:HD3	1:128:A:LYS:HB3	5	0.11	0.01	0.11
(2,3347)	1:107:A:ASP:H	1:105:A:GLY:HA2	5	0.11	0.01	0.11
(2,3822)	1:158:A:LYS:HG3	1:158:A:LYS:HE3	4	0.83	0.4	1.03
(2,3822)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	4	0.83	0.4	1.03
(2,3252)	1:62:A:LEU:HD23	1:64:A:GLU:H	4	0.8	1.02	0.27
(2,3252)	1:62:A:LEU:HD22	1:64:A:GLU:H	4	0.8	1.02	0.27
(2,3252)	1:62:A:LEU:HD21	1:64:A:GLU:H	4	0.8	1.02	0.27
(2,3589)	1:107:A:ASP:H	1:106:A:ASP:HB3	4	0.79	0.16	0.77
(2,870)	1:115:A:ILE:HD12	1:36:A:PRO:HB3	4	0.75	0.59	0.72
(2,870)	1:115:A:ILE:HD13	1:36:A:PRO:HB3	4	0.75	0.59	0.72
(2,4346)	1:145:A:LEU:HA	1:145:A:LEU:HD22	4	0.72	0.13	0.7
(2,4346)	1:145:A:LEU:HA	1:145:A:LEU:HD21	4	0.72	0.13	0.7
(2,4346)	1:145:A:LEU:HA	1:145:A:LEU:HD23	4	0.72	0.13	0.7
(2,1101)	1:11:A:LEU:HD12	1:12:A:ILE:H	4	0.72	0.14	0.65
(2,1101)	1:11:A:LEU:HD13	1:12:A:ILE:H	4	0.72	0.14	0.65
(2,3566)	1:1:A:THR:H	1:2:A:ALA:HB2	4	0.58	0.11	0.6
(2,3566)	1:1:A:THR:H	1:2:A:ALA:HB1	4	0.58	0.11	0.6
(2,3566)	1:1:A:THR:H	1:2:A:ALA:HB3	4	0.58	0.11	0.6
(2,2384)	1:60:A:PHE:HB3	1:57:A:LEU:HB3	4	0.54	0.1	0.55
(2,1780)	1:14:A:LYS:HB3	1:15:A:PRO:HD3	4	0.53	0.04	0.54
(2,4772)	1:10:A:ARG:H	1:9:A:ARG:HD2	4	0.52	0.11	0.55
(2,4772)	1:10:A:ARG:H	1:9:A:ARG:HD3	4	0.52	0.11	0.55
(2,4772)	1:10:A:ARG:H	1:10:A:ARG:HD3	4	0.52	0.11	0.55
(2,4309)	1:86:A:LYS:HB2	1:86:A:LYS:HA	4	0.47	0.02	0.48
(2,4309)	1:10:A:ARG:HB3	1:10:A:ARG:HA	4	0.47	0.02	0.48
(2,3639)	1:79:A:SER:HB3	1:78:A:ARG:HG2	4	0.46	0.15	0.41
(2,3639)	1:79:A:SER:HB3	1:83:A:ARG:HG3	4	0.46	0.15	0.41
(2,523)	1:122:A:LEU:HD13	1:125:A:PHE:HZ	4	0.45	0.22	0.4
(2,523)	1:122:A:LEU:HD11	1:125:A:PHE:HZ	4	0.45	0.22	0.4
(2,523)	1:122:A:LEU:HD12	1:125:A:PHE:HZ	4	0.45	0.22	0.4
(2,47)	1:83:A:ARG:HB2	1:83:A:ARG:HD3	4	0.44	0.18	0.54
(2,3676)	1:11:A:LEU:HA	1:11:A:LEU:H	4	0.42	0.09	0.43
(2,3676)	1:11:A:LEU:HA	1:12:A:ILE:H	4	0.42	0.09	0.43
(2,4359)	1:157:A:SER:HB3	1:158:A:LYS:HD3	4	0.42	0.26	0.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4359)	1:157:A:SER:HB3	1:158:A:LYS:HD2	4	0.42	0.26	0.42
(2,4786)	1:56:A:ASN:HD21	1:24:A:PRO:HG2	4	0.42	0.13	0.43
(2,4786)	1:56:A:ASN:HD21	1:58:A:PRO:HG3	4	0.42	0.13	0.43
(2,753)	1:122:A:LEU:HD23	1:33:A:VAL:HG23	4	0.41	0.12	0.43
(2,753)	1:122:A:LEU:HD23	1:33:A:VAL:HG22	4	0.41	0.12	0.43
(2,753)	1:122:A:LEU:HD23	1:33:A:VAL:HG21	4	0.41	0.12	0.43
(2,753)	1:122:A:LEU:HD21	1:33:A:VAL:HG21	4	0.41	0.12	0.43
(2,4541)	1:146:A:GLN:HG3	1:143:A:MET:HA	4	0.4	0.19	0.35
(2,4541)	1:146:A:GLN:HG2	1:143:A:MET:HA	4	0.4	0.19	0.35
(2,4485)	1:95:A:LYS:HE3	1:95:A:LYS:HG3	4	0.34	0.04	0.35
(2,918)	1:109:A:ILE:HG22	1:114:A:PHE:HE2	4	0.3	0.21	0.22
(2,918)	1:109:A:ILE:HG21	1:114:A:PHE:HE2	4	0.3	0.21	0.22
(2,918)	1:109:A:ILE:HG21	1:114:A:PHE:HE1	4	0.3	0.21	0.22
(2,4026)	1:152:A:LYS:HE2	1:76:A:TRP:H	4	0.29	0.04	0.3
(2,4042)	1:45:A:ARG:HD2	1:41:A:VAL:HA	4	0.28	0.05	0.29
(2,4745)	1:62:A:LEU:H	1:146:A:GLN:HB3	4	0.28	0.01	0.28
(2,3582)	1:12:A:ILE:HG13	1:11:A:LEU:H	4	0.26	0.13	0.2
(2,465)	1:47:A:THR:HG23	1:114:A:PHE:HE2	4	0.26	0.08	0.24
(2,465)	1:47:A:THR:HG21	1:114:A:PHE:HE2	4	0.26	0.08	0.24
(2,2285)	1:161:A:HIS:HA	1:161:A:HIS:HD2	4	0.26	0.08	0.3
(2,4040)	1:45:A:ARG:HD3	1:38:A:THR:HG22	4	0.26	0.13	0.25
(2,4040)	1:45:A:ARG:HD3	1:38:A:THR:HG21	4	0.26	0.13	0.25
(2,2972)	1:2:A:ALA:HB1	1:2:A:ALA:H	4	0.25	0.08	0.3
(2,2972)	1:2:A:ALA:HB2	1:2:A:ALA:H	4	0.25	0.08	0.3
(2,4688)	1:159:A:ILE:HG12	1:136:A:GLN:H	4	0.25	0.04	0.24
(2,4688)	1:136:A:GLN:H	1:134:A:LEU:HD21	4	0.25	0.04	0.24
(2,4688)	1:136:A:GLN:H	1:134:A:LEU:HD22	4	0.25	0.04	0.24
(2,4688)	1:136:A:GLN:H	1:134:A:LEU:HD23	4	0.25	0.04	0.24
(2,4217)	1:25:A:PRO:HA	1:58:A:PRO:HD2	4	0.24	0.21	0.13
(2,2142)	1:31:A:ILE:HG21	1:33:A:VAL:HG12	4	0.24	0.07	0.22
(2,2142)	1:31:A:ILE:HG23	1:33:A:VAL:HG11	4	0.24	0.07	0.22
(2,2142)	1:31:A:ILE:HG23	1:33:A:VAL:HG13	4	0.24	0.07	0.22
(2,2142)	1:31:A:ILE:HG22	1:33:A:VAL:HG13	4	0.24	0.07	0.22
(2,4749)	1:34:A:SER:H	1:33:A:VAL:HG23	4	0.24	0.1	0.24
(2,4749)	1:34:A:SER:H	1:33:A:VAL:HG22	4	0.24	0.1	0.24
(2,4749)	1:34:A:SER:H	1:33:A:VAL:HG21	4	0.24	0.1	0.24
(2,2915)	1:37:A:GLN:H	1:49:A:TYR:HD2	4	0.22	0.01	0.22
(2,2915)	1:37:A:GLN:H	1:49:A:TYR:HD1	4	0.22	0.01	0.22
(2,4179)	1:141:A:LEU:HD12	1:60:A:PHE:HZ	4	0.22	0.1	0.18
(2,4179)	1:141:A:LEU:HD13	1:60:A:PHE:HZ	4	0.22	0.1	0.18
(2,3605)	1:61:A:LYS:H	1:22:A:TYR:HE1	4	0.2	0.08	0.2
(2,4576)	1:54:A:LYS:HD2	1:28:A:PHE:HE1	4	0.2	0.06	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4715)	1:105:A:GLY:H	1:104:A:ARG:HG3	4	0.2	0.06	0.19
(2,4715)	1:105:A:GLY:H	1:104:A:ARG:HG2	4	0.2	0.06	0.19
(2,2530)	1:83:A:ARG:HG3	1:83:A:ARG:H	4	0.2	0.01	0.2
(2,4497)	1:59:A:ILE:HD12	1:137:A:ASN:HB2	4	0.2	0.03	0.2
(2,4497)	1:59:A:ILE:HD13	1:137:A:ASN:HB2	4	0.2	0.03	0.2
(2,4858)	1:159:A:ILE:H	1:138:A:GLU:HA	4	0.19	0.06	0.2
(2,982)	1:12:A:ILE:HA	1:12:A:ILE:HG13	4	0.18	0.05	0.18
(2,1267)	1:152:A:LYS:HB2	1:150:A:ILE:HG23	4	0.17	0.01	0.17
(2,1267)	1:152:A:LYS:HB2	1:150:A:ILE:HG22	4	0.17	0.01	0.17
(2,3757)	1:47:A:THR:HG23	1:115:A:ILE:HA	4	0.17	0.05	0.18
(2,3757)	1:47:A:THR:HG21	1:115:A:ILE:HA	4	0.17	0.05	0.18
(2,3757)	1:47:A:THR:HG22	1:115:A:ILE:HA	4	0.17	0.05	0.18
(2,995)	1:101:A:LEU:HD23	1:101:A:LEU:H	4	0.16	0.04	0.16
(2,995)	1:101:A:LEU:HD21	1:101:A:LEU:H	4	0.16	0.04	0.16
(2,1696)	1:115:A:ILE:HG21	1:36:A:PRO:HG2	4	0.16	0.02	0.16
(2,1696)	1:115:A:ILE:HG23	1:36:A:PRO:HG2	4	0.16	0.02	0.16
(2,1696)	1:115:A:ILE:HG22	1:36:A:PRO:HG2	4	0.16	0.02	0.16
(2,3976)	1:104:A:ARG:HA	1:104:A:ARG:HG2	4	0.16	0.05	0.14
(2,3976)	1:104:A:ARG:HA	1:104:A:ARG:HG3	4	0.16	0.05	0.14
(2,4246)	1:20:A:ASP:HB3	1:20:A:ASP:HA	4	0.16	0.01	0.16
(2,1299)	1:51:A:ILE:HD12	1:33:A:VAL:HB	4	0.16	0.04	0.15
(2,1299)	1:51:A:ILE:HD13	1:33:A:VAL:HB	4	0.16	0.04	0.15
(2,2982)	1:4:A:THR:HG22	1:4:A:THR:H	4	0.15	0.04	0.15
(2,2982)	1:4:A:THR:HG23	1:4:A:THR:H	4	0.15	0.04	0.15
(2,3000)	1:38:A:THR:HG21	1:39:A:VAL:H	4	0.15	0.02	0.15
(2,3000)	1:38:A:THR:HG22	1:39:A:VAL:H	4	0.15	0.02	0.15
(2,4194)	1:10:A:ARG:HA	1:10:A:ARG:H	4	0.15	0.03	0.16
(2,4942)	1:140:A:CYS:H	1:139:A:ARG:HG2	4	0.15	0.02	0.15
(2,4112)	1:81:A:LEU:HD21	1:135:A:ALA:HB3	4	0.14	0.03	0.15
(2,4112)	1:81:A:LEU:HD12	1:135:A:ALA:HB1	4	0.14	0.03	0.15
(2,4112)	1:81:A:LEU:HD13	1:135:A:ALA:HB2	4	0.14	0.03	0.15
(2,4112)	1:81:A:LEU:HD12	1:135:A:ALA:HB2	4	0.14	0.03	0.15
(2,3815)	1:14:A:LYS:HB3	1:14:A:LYS:HG3	4	0.14	0.02	0.15
(2,1784)	1:83:A:ARG:HG3	1:84:A:GLU:H	4	0.14	0.03	0.13
(2,2267)	1:135:A:ALA:HB2	1:136:A:GLN:HG3	4	0.14	0.03	0.12
(2,2267)	1:135:A:ALA:HB3	1:136:A:GLN:HG3	4	0.14	0.03	0.12
(2,2267)	1:135:A:ALA:HB1	1:136:A:GLN:HG3	4	0.14	0.03	0.12
(2,4547)	1:148:A:GLU:HG3	1:67:A:VAL:HG12	4	0.13	0.03	0.12
(2,4547)	1:148:A:GLU:HG3	1:67:A:VAL:HG11	4	0.13	0.03	0.12
(2,125)	1:127:A:ASN:HA	1:127:A:ASN:HD22	4	0.13	0.02	0.13
(2,4159)	1:53:A:VAL:HG13	1:66:A:THR:HA	4	0.13	0.02	0.13
(2,4159)	1:53:A:VAL:HG12	1:66:A:THR:HA	4	0.13	0.02	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,43)	1:146:A:GLN:H	1:142:A:HIS:O	4	0.13	0.03	0.11
(2,538)	1:143:A:MET:HE2	1:151:A:ASP:H	4	0.13	0.03	0.11
(2,538)	1:143:A:MET:HE3	1:151:A:ASP:H	4	0.13	0.03	0.11
(2,1341)	1:57:A:LEU:HB2	1:59:A:ILE:HG21	4	0.13	0.02	0.12
(2,1341)	1:57:A:LEU:HB2	1:59:A:ILE:HG22	4	0.13	0.02	0.12
(2,2428)	1:20:A:ASP:H	1:19:A:ASN:HB3	4	0.12	0.01	0.12
(2,3584)	1:108:A:GLY:H	1:109:A:ILE:HA	4	0.12	0.04	0.11
(2,397)	1:134:A:LEU:HG	1:87:A:VAL:H	4	0.12	0.01	0.12
(2,712)	1:124:A:GLN:HG3	1:123:A:GLU:H	4	0.12	0.01	0.12
(2,1249)	1:101:A:LEU:HB3	1:101:A:LEU:H	4	0.12	0.01	0.12
(2,3119)	1:57:A:LEU:HD23	1:27:A:ASN:HD22	4	0.12	0.01	0.12
(2,3119)	1:57:A:LEU:HD21	1:27:A:ASN:HD22	4	0.12	0.01	0.12
(2,4207)	1:158:A:LYS:HD3	1:158:A:LYS:HE2	4	0.1	0.0	0.1
(2,4207)	1:158:A:LYS:HD2	1:158:A:LYS:HE3	4	0.1	0.0	0.1
(2,4504)	1:77:A:LEU:HD13	1:74:A:PHE:HB3	3	1.69	1.13	2.35
(2,4504)	1:77:A:LEU:HD12	1:74:A:PHE:HB3	3	1.69	1.13	2.35
(2,1366)	1:101:A:LEU:HD21	1:101:A:LEU:HA	3	1.39	0.58	1.78
(2,1366)	1:101:A:LEU:HD23	1:101:A:LEU:HA	3	1.39	0.58	1.78
(2,1292)	1:51:A:ILE:HD13	1:122:A:LEU:HD23	3	1.34	0.08	1.29
(2,1292)	1:51:A:ILE:HD12	1:122:A:LEU:HD23	3	1.34	0.08	1.29
(2,1292)	1:51:A:ILE:HD13	1:122:A:LEU:HD21	3	1.34	0.08	1.29
(2,1976)	1:157:A:SER:HA	1:158:A:LYS:HG2	3	1.29	0.07	1.31
(2,1792)	1:83:A:ARG:HD3	1:84:A:GLU:H	3	0.98	0.01	0.97
(2,1950)	1:145:A:LEU:HD23	1:145:A:LEU:H	3	0.9	0.28	1.09
(2,1950)	1:145:A:LEU:HD21	1:145:A:LEU:H	3	0.9	0.28	1.09
(2,756)	1:122:A:LEU:HD22	1:74:A:PHE:HD1	3	0.88	0.09	0.84
(2,756)	1:122:A:LEU:HD23	1:74:A:PHE:HD1	3	0.88	0.09	0.84
(2,1592)	1:77:A:LEU:HD23	1:141:A:LEU:HA	3	0.8	0.43	1.07
(2,1592)	1:77:A:LEU:HD22	1:141:A:LEU:HA	3	0.8	0.43	1.07
(2,3423)	1:125:A:PHE:H	1:123:A:GLU:HG2	3	0.73	0.06	0.72
(2,4311)	1:99:A:ARG:HB2	1:99:A:ARG:HD2	3	0.71	0.05	0.72
(2,4311)	1:10:A:ARG:HB3	1:10:A:ARG:HD3	3	0.71	0.05	0.72
(2,4891)	1:143:A:MET:H	1:150:A:ILE:HD12	3	0.6	0.31	0.65
(2,4891)	1:143:A:MET:H	1:77:A:LEU:HD23	3	0.6	0.31	0.65
(2,4891)	1:143:A:MET:H	1:150:A:ILE:HD11	3	0.6	0.31	0.65
(2,4566)	1:157:A:SER:HB2	1:139:A:ARG:HD3	3	0.52	0.3	0.66
(2,4566)	1:157:A:SER:HB2	1:139:A:ARG:HD2	3	0.52	0.3	0.66
(2,3953)	1:111:A:ASP:HB3	1:108:A:GLY:HA3	3	0.49	0.04	0.5
(2,3953)	1:111:A:ASP:HB3	1:108:A:GLY:HA2	3	0.49	0.04	0.5
(2,2570)	1:96:A:ALA:H	1:95:A:LYS:HG3	3	0.45	0.38	0.22
(2,4358)	1:157:A:SER:HA	1:158:A:LYS:HD3	3	0.44	0.07	0.41
(2,4358)	1:157:A:SER:HA	1:158:A:LYS:HD2	3	0.44	0.07	0.41

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,1625)	1:160:A:ARG:HD3	1:159:A:ILE:HB	3	0.43	0.14	0.4
(2,4093)	1:115:A:ILE:HG21	1:49:A:TYR:HD1	3	0.43	0.14	0.48
(2,4093)	1:115:A:ILE:HG23	1:49:A:TYR:HD1	3	0.43	0.14	0.48
(2,4093)	1:115:A:ILE:HG23	1:49:A:TYR:HD2	3	0.43	0.14	0.48
(2,3983)	1:104:A:ARG:HD3	1:104:A:ARG:HB3	3	0.41	0.03	0.39
(2,2358)	1:85:A:SER:HB2	1:81:A:LEU:HD22	3	0.38	0.16	0.44
(2,2358)	1:85:A:SER:HB2	1:81:A:LEU:HD21	3	0.38	0.16	0.44
(2,2358)	1:85:A:SER:HB2	1:81:A:LEU:HD23	3	0.38	0.16	0.44
(2,3885)	1:122:A:LEU:HD21	1:93:A:PRO:HG2	3	0.37	0.07	0.33
(2,3885)	1:122:A:LEU:HD22	1:93:A:PRO:HG2	3	0.37	0.07	0.33
(2,3845)	1:60:A:PHE:HB3	1:55:A:THR:HG23	3	0.34	0.14	0.37
(2,3845)	1:60:A:PHE:HB3	1:55:A:THR:HG22	3	0.34	0.14	0.37
(2,3845)	1:60:A:PHE:HB3	1:55:A:THR:HG21	3	0.34	0.14	0.37
(2,763)	1:36:A:PRO:HG3	1:115:A:ILE:HD13	3	0.3	0.05	0.31
(2,763)	1:36:A:PRO:HG3	1:115:A:ILE:HD12	3	0.3	0.05	0.31
(2,1972)	1:157:A:SER:HB3	1:158:A:LYS:HG2	3	0.3	0.1	0.37
(2,3053)	1:16:A:GLN:HG3	1:16:A:GLN:H	3	0.3	0.14	0.31
(2,1951)	1:38:A:THR:HG21	1:110:A:PHE:HE2	3	0.29	0.08	0.33
(2,1951)	1:38:A:THR:HG22	1:110:A:PHE:HE2	3	0.29	0.08	0.33
(2,1951)	1:38:A:THR:HG23	1:110:A:PHE:HE2	3	0.29	0.08	0.33
(2,3306)	1:84:A:GLU:H	1:85:A:SER:HB2	3	0.25	0.01	0.26
(2,3567)	1:68:A:ARG:H	1:149:A:ILE:HG23	3	0.25	0.12	0.17
(2,3567)	1:68:A:ARG:H	1:149:A:ILE:HG21	3	0.25	0.12	0.17
(2,988)	1:102:A:PRO:HD2	1:101:A:LEU:HB3	3	0.24	0.03	0.26
(2,3788)	1:152:A:LYS:HA	1:152:A:LYS:HD3	3	0.24	0.07	0.27
(2,3788)	1:152:A:LYS:HA	1:152:A:LYS:HD2	3	0.24	0.07	0.27
(2,3705)	1:92:A:LEU:HG	1:93:A:PRO:HD3	3	0.24	0.05	0.22
(2,2831)	1:113:A:ASN:HB2	1:113:A:ASN:HD22	3	0.24	0.01	0.24
(2,4736)	1:138:A:GLU:HG2	1:135:A:ALA:H	3	0.24	0.12	0.16
(2,4736)	1:135:A:ALA:H	1:138:A:GLU:HB2	3	0.24	0.12	0.16
(2,4186)	1:77:A:LEU:HD21	1:140:A:CYS:HB3	3	0.23	0.15	0.15
(2,4186)	1:77:A:LEU:HD21	1:144:A:PHE:HB3	3	0.23	0.15	0.15
(2,1663)	1:-1:A:VAL:HA	1:-1:A:VAL:HB	3	0.23	0.01	0.24
(2,2581)	1:98:A:LEU:HD22	1:99:A:ARG:H	3	0.23	0.04	0.24
(2,2581)	1:98:A:LEU:HD21	1:99:A:ARG:H	3	0.23	0.04	0.24
(2,4378)	1:58:A:PRO:HA	1:60:A:PHE:H	3	0.22	0.1	0.17
(2,4378)	1:58:A:PRO:HA	1:22:A:TYR:HD2	3	0.22	0.1	0.17
(2,4378)	1:58:A:PRO:HA	1:22:A:TYR:HD1	3	0.22	0.1	0.17
(2,4755)	1:0:A:GLY:HA2	1:1:A:THR:H	3	0.22	0.05	0.21
(2,4755)	1:0:A:GLY:HA3	1:1:A:THR:H	3	0.22	0.05	0.21
(2,4367)	1:62:A:LEU:HD21	1:61:A:LYS:H	3	0.21	0.08	0.16
(2,4367)	1:62:A:LEU:HD22	1:61:A:LYS:H	3	0.21	0.08	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4821)	1:51:A:ILE:H	1:68:A:ARG:HG2	3	0.21	0.04	0.21
(2,4862)	1:158:A:LYS:H	1:139:A:ARG:HB2	3	0.21	0.04	0.22
(2,1294)	1:51:A:ILE:HD11	1:67:A:VAL:HG22	3	0.2	0.02	0.21
(2,1294)	1:51:A:ILE:HD12	1:67:A:VAL:HG21	3	0.2	0.02	0.21
(2,1294)	1:51:A:ILE:HD12	1:67:A:VAL:HG23	3	0.2	0.02	0.21
(2,4374)	1:43:A:ARG:HB2	1:43:A:ARG:HD2	3	0.2	0.07	0.18
(2,4375)	1:43:A:ARG:HB3	1:43:A:ARG:HD3	3	0.2	0.11	0.13
(2,2251)	1:130:A:ALA:HB2	1:126:A:ILE:HD12	3	0.19	0.0	0.19
(2,2251)	1:130:A:ALA:HB3	1:126:A:ILE:HD13	3	0.19	0.0	0.19
(2,2251)	1:130:A:ALA:HB1	1:126:A:ILE:HD13	3	0.19	0.0	0.19
(2,3892)	1:93:A:PRO:HG2	1:71:A:TYR:HE1	3	0.19	0.06	0.2
(2,798)	1:118:A:ARG:HA	1:122:A:LEU:HD21	3	0.19	0.07	0.14
(2,798)	1:118:A:ARG:HA	1:122:A:LEU:HD22	3	0.19	0.07	0.14
(2,1585)	1:141:A:LEU:HD11	1:141:A:LEU:H	3	0.19	0.05	0.19
(2,1585)	1:141:A:LEU:HD12	1:141:A:LEU:H	3	0.19	0.05	0.19
(2,3833)	1:127:A:ASN:HA	1:29:A:LEU:HD22	3	0.19	0.01	0.19
(2,3833)	1:127:A:ASN:HA	1:29:A:LEU:HD23	3	0.19	0.01	0.19
(2,4192)	1:50:A:GLU:HG2	1:52:A:ARG:HD3	3	0.19	0.03	0.2
(2,4192)	1:50:A:GLU:HG2	1:52:A:ARG:HD2	3	0.19	0.03	0.2
(2,2995)	1:4:A:THR:HA	1:5:A:VAL:H	3	0.18	0.05	0.2
(2,46)	1:83:A:ARG:HB3	1:83:A:ARG:HD3	3	0.18	0.02	0.17
(2,926)	1:109:A:ILE:HD11	1:45:A:ARG:HB3	3	0.18	0.04	0.19
(2,926)	1:109:A:ILE:HD12	1:45:A:ARG:HB3	3	0.18	0.04	0.19
(2,1055)	1:151:A:ASP:HB3	1:150:A:ILE:HA	3	0.17	0.04	0.18
(2,568)	1:143:A:MET:HG2	1:150:A:ILE:HA	3	0.16	0.05	0.14
(2,272)	1:22:A:TYR:HB2	1:28:A:PHE:HD2	3	0.16	0.01	0.16
(2,4518)	1:115:A:ILE:HD13	1:113:A:ASN:H	3	0.16	0.02	0.15
(2,4518)	1:115:A:ILE:HD11	1:113:A:ASN:H	3	0.16	0.02	0.15
(2,417)	1:87:A:VAL:HG23	1:132:A:HIS:HD2	3	0.15	0.03	0.13
(2,417)	1:87:A:VAL:HG21	1:132:A:HIS:HD2	3	0.15	0.03	0.13
(2,4762)	1:26:A:SER:HB3	1:26:A:SER:H	3	0.14	0.03	0.16
(2,3058)	1:17:A:ASN:H	1:17:A:ASN:HB3	3	0.14	0.01	0.15
(2,896)	1:113:A:ASN:HB2	1:117:A:GLU:HG2	3	0.14	0.03	0.13
(2,3537)	1:100:A:GLN:HE21	1:100:A:GLN:HB2	3	0.14	0.02	0.13
(2,1203)	1:29:A:LEU:HD21	1:31:A:ILE:HD12	3	0.13	0.02	0.14
(2,1203)	1:29:A:LEU:HD21	1:31:A:ILE:HD11	3	0.13	0.02	0.14
(2,1203)	1:29:A:LEU:HD23	1:31:A:ILE:HD12	3	0.13	0.02	0.14
(2,52)	1:83:A:ARG:HA	1:83:A:ARG:HD2	3	0.13	0.02	0.13
(2,3830)	1:129:A:VAL:HG11	1:128:A:LYS:HD3	3	0.13	0.03	0.11
(2,3830)	1:129:A:VAL:HG13	1:128:A:LYS:HD2	3	0.13	0.03	0.11
(2,3830)	1:129:A:VAL:HG12	1:128:A:LYS:HD3	3	0.13	0.03	0.11
(2,4830)	1:58:A:PRO:HB3	1:59:A:ILE:H	3	0.13	0.03	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,4010)	1:139:A:ARG:HB3	1:141:A:LEU:H	3	0.13	0.02	0.12
(2,4615)	1:84:A:GLU:H	1:82:A:GLU:H	3	0.13	0.0	0.13
(2,213)	1:158:A:LYS:HB3	1:137:A:ASN:HD21	3	0.12	0.01	0.12
(2,821)	1:117:A:GLU:HG3	1:117:A:GLU:H	3	0.12	0.0	0.12
(2,1432)	1:149:A:ILE:HB	1:148:A:GLU:H	3	0.12	0.01	0.12
(2,273)	1:22:A:TYR:HB3	1:28:A:PHE:HD2	3	0.12	0.0	0.12
(2,305)	1:92:A:LEU:HD12	1:75:A:GLU:H	3	0.12	0.02	0.11
(2,305)	1:92:A:LEU:HD13	1:75:A:GLU:H	3	0.12	0.02	0.11
(2,1538)	1:41:A:VAL:HA	1:45:A:ARG:HB2	3	0.12	0.01	0.12
(2,2064)	1:33:A:VAL:HB	1:123:A:GLU:H	3	0.12	0.01	0.13
(2,2997)	1:6:A:ALA:H	1:5:A:VAL:HB	3	0.12	0.02	0.12
(2,2793)	1:44:A:GLY:H	1:42:A:GLY:HA2	3	0.12	0.0	0.12
(2,514)	1:122:A:LEU:HD13	1:122:A:LEU:HB2	3	0.11	0.01	0.11
(2,514)	1:122:A:LEU:HD11	1:122:A:LEU:HB2	3	0.11	0.01	0.11
(2,3419)	1:124:A:GLN:HE21	1:123:A:GLU:HG3	3	0.11	0.01	0.11
(2,2587)	1:7:A:ASP:H	1:7:A:ASP:HB2	3	0.11	0.0	0.11
(2,4886)	1:120:A:GLN:HE21	1:117:A:GLU:HB3	3	0.11	0.0	0.11
(2,328)	1:102:A:PRO:HA	1:102:A:PRO:HG3	3	0.11	0.0	0.11
(2,1414)	1:136:A:GLN:HG3	1:136:A:GLN:HA	3	0.11	0.0	0.11
(2,1790)	1:83:A:ARG:HD3	1:83:A:ARG:H	3	0.11	0.01	0.11
(2,3996)	1:101:A:LEU:HD22	1:101:A:LEU:HG	3	0.1	0.0	0.1
(2,3996)	1:101:A:LEU:HD21	1:101:A:LEU:HG	3	0.1	0.0	0.1
(2,2211)	1:77:A:LEU:HD13	1:125:A:PHE:HE2	2	2.59	0.12	2.59
(2,1098)	1:11:A:LEU:HA	1:11:A:LEU:HD13	2	1.94	0.28	1.94
(2,1098)	1:11:A:LEU:HA	1:11:A:LEU:HD12	2	1.94	0.28	1.94
(2,1594)	1:77:A:LEU:HA	1:77:A:LEU:HD22	2	1.4	0.01	1.4
(2,1594)	1:77:A:LEU:HA	1:77:A:LEU:HD21	2	1.4	0.01	1.4
(2,4472)	1:77:A:LEU:HD12	1:130:A:ALA:HA	2	1.32	0.09	1.32
(2,4472)	1:77:A:LEU:HD13	1:74:A:PHE:HA	2	1.32	0.09	1.32
(2,1988)	1:77:A:LEU:HD11	1:78:A:ARG:H	2	1.06	0.02	1.06
(2,4242)	1:142:A:HIS:HA	1:145:A:LEU:HB2	2	1.0	0.07	1.0
(2,4242)	1:142:A:HIS:HA	1:61:A:LYS:HB3	2	1.0	0.07	1.0
(2,2292)	1:77:A:LEU:HD13	1:74:A:PHE:HA	2	0.78	0.14	0.78
(2,629)	1:129:A:VAL:HG21	1:77:A:LEU:HD12	2	0.59	0.09	0.59
(2,629)	1:129:A:VAL:HG22	1:77:A:LEU:HD12	2	0.59	0.09	0.59
(2,3612)	1:32:A:ASP:HB2	1:52:A:ARG:HD3	2	0.48	0.38	0.48
(2,16)	1:32:A:ASP:HB2	1:52:A:ARG:HB2	2	0.46	0.11	0.46
(2,1702)	1:36:A:PRO:HD3	1:36:A:PRO:HB3	2	0.42	0.02	0.42
(2,4499)	1:130:A:ALA:HB3	1:145:A:LEU:HD11	2	0.41	0.18	0.41
(2,4499)	1:145:A:LEU:HB3	1:145:A:LEU:HD12	2	0.41	0.18	0.41
(2,137)	1:67:A:VAL:HG22	1:68:A:ARG:H	2	0.36	0.04	0.36
(2,137)	1:67:A:VAL:HG21	1:68:A:ARG:H	2	0.36	0.04	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3982)	1:104:A:ARG:HD2	1:104:A:ARG:HB2	2	0.36	0.13	0.36
(2,4468)	1:77:A:LEU:HD12	1:141:A:LEU:HG	2	0.36	0.06	0.36
(2,33)	1:27:A:ASN:HA	1:56:A:ASN:HD21	2	0.36	0.22	0.36
(2,4767)	1:9:A:ARG:H	1:9:A:ARG:HD3	2	0.36	0.12	0.36
(2,3328)	1:158:A:LYS:HG2	1:158:A:LYS:H	2	0.34	0.08	0.34
(2,3745)	1:87:A:VAL:HG23	1:138:A:GLU:HB2	2	0.32	0.13	0.32
(2,3745)	1:87:A:VAL:HG21	1:138:A:GLU:HB2	2	0.32	0.13	0.32
(2,2208)	1:77:A:LEU:HB3	1:77:A:LEU:HD13	2	0.32	0.02	0.32
(2,2900)	1:50:A:GLU:H	1:68:A:ARG:HG2	2	0.32	0.08	0.32
(2,3016)	1:9:A:ARG:HA	1:9:A:ARG:H	2	0.31	0.02	0.31
(2,3979)	1:9:A:ARG:HB3	1:9:A:ARG:HD2	2	0.29	0.0	0.29
(2,519)	1:122:A:LEU:HD12	1:74:A:PHE:HD2	2	0.29	0.05	0.29
(2,519)	1:122:A:LEU:HD11	1:74:A:PHE:HD2	2	0.29	0.05	0.29
(2,4563)	1:32:A:ASP:HB2	1:52:A:ARG:HD3	2	0.27	0.13	0.27
(2,947)	1:147:A:ASP:HB2	1:149:A:ILE:H	2	0.24	0.0	0.24
(2,4616)	1:85:A:SER:H	1:82:A:GLU:HB2	2	0.24	0.12	0.24
(2,3066)	1:16:A:GLN:HE21	1:16:A:GLN:HB2	2	0.23	0.04	0.23
(2,1337)	1:67:A:VAL:HG22	1:52:A:ARG:H	2	0.22	0.04	0.22
(2,4631)	1:104:A:ARG:H	1:103:A:PHE:HB3	2	0.22	0.09	0.22
(2,4631)	1:104:A:ARG:H	1:103:A:PHE:HB2	2	0.22	0.09	0.22
(2,1952)	1:45:A:ARG:HD3	1:38:A:THR:HG22	2	0.22	0.06	0.22
(2,4589)	1:35:A:ASN:H	1:36:A:PRO:HB3	2	0.22	0.02	0.22
(2,4961)	1:112:A:ASP:H	1:115:A:ILE:HB	2	0.22	0.01	0.22
(2,4521)	1:77:A:LEU:HD23	1:141:A:LEU:H	2	0.21	0.0	0.21
(2,4521)	1:77:A:LEU:HD22	1:141:A:LEU:H	2	0.21	0.0	0.21
(2,1283)	1:31:A:ILE:HD12	1:31:A:ILE:H	2	0.2	0.0	0.2
(2,1283)	1:31:A:ILE:HD13	1:31:A:ILE:H	2	0.2	0.0	0.2
(2,3249)	1:62:A:LEU:H	1:60:A:PHE:HD2	2	0.2	0.04	0.2
(2,4188)	1:77:A:LEU:HD23	1:141:A:LEU:HB3	2	0.2	0.03	0.2
(2,4188)	1:77:A:LEU:HD22	1:141:A:LEU:HB3	2	0.2	0.03	0.2
(2,457)	1:48:A:THR:HG22	1:46:A:PHE:HE2	2	0.2	0.06	0.2
(2,457)	1:48:A:THR:HG23	1:46:A:PHE:HE2	2	0.2	0.06	0.2
(2,4391)	1:78:A:ARG:HG3	1:81:A:LEU:HD11	2	0.19	0.06	0.19
(2,4391)	1:78:A:ARG:HG3	1:81:A:LEU:HD13	2	0.19	0.06	0.19
(2,4909)	1:127:A:ASN:H	1:123:A:GLU:HG3	2	0.19	0.02	0.19
(2,4909)	1:127:A:ASN:H	1:124:A:GLN:HB3	2	0.19	0.02	0.19
(2,4594)	1:19:A:ASN:H	1:18:A:LEU:HB3	2	0.18	0.04	0.18
(2,4234)	1:35:A:ASN:HB3	1:36:A:PRO:HD2	2	0.18	0.03	0.18
(2,4751)	1:34:A:SER:H	1:32:A:ASP:HB3	2	0.18	0.06	0.18
(2,4751)	1:34:A:SER:H	1:35:A:ASN:HB3	2	0.18	0.06	0.18
(2,251)	1:150:A:ILE:HG21	1:154:A:TYR:HE1	2	0.17	0.03	0.17
(2,1099)	1:18:A:LEU:HD23	1:18:A:LEU:HA	2	0.17	0.02	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,3081)	1:22:A:TYR:H	1:22:A:TYR:HE2	2	0.17	0.01	0.17
(2,3081)	1:22:A:TYR:H	1:22:A:TYR:HE1	2	0.17	0.01	0.17
(2,1085)	1:139:A:ARG:HD3	1:161:A:HIS:HD2	2	0.16	0.06	0.16
(2,4095)	1:59:A:ILE:HG23	1:137:A:ASN:H	2	0.16	0.04	0.16
(2,4851)	1:89:A:VAL:H	1:82:A:GLU:H	2	0.16	0.06	0.16
(2,3718)	1:25:A:PRO:HD2	1:24:A:PRO:HB2	2	0.16	0.05	0.16
(2,4975)	1:108:A:GLY:H	1:105:A:GLY:HA3	2	0.16	0.05	0.16
(2,466)	1:47:A:THR:HG23	1:49:A:TYR:HE1	2	0.15	0.02	0.15
(2,466)	1:47:A:THR:HG23	1:49:A:TYR:HE2	2	0.15	0.02	0.15
(2,292)	1:92:A:LEU:HD13	1:93:A:PRO:HD2	2	0.15	0.0	0.15
(2,1516)	1:57:A:LEU:HD12	1:57:A:LEU:HD21	2	0.15	0.02	0.15
(2,1516)	1:57:A:LEU:HD13	1:57:A:LEU:HD23	2	0.15	0.02	0.15
(2,1750)	1:80:A:GLU:HA	1:84:A:GLU:H	2	0.15	0.02	0.15
(2,3887)	1:122:A:LEU:HD21	1:125:A:PHE:HD2	2	0.15	0.0	0.15
(2,3887)	1:122:A:LEU:HD22	1:125:A:PHE:HD2	2	0.15	0.0	0.15
(2,4771)	1:10:A:ARG:H	1:9:A:ARG:HB3	2	0.15	0.03	0.15
(2,4731)	1:37:A:GLN:H	1:36:A:PRO:HG2	2	0.14	0.03	0.14
(2,4731)	1:37:A:GLN:H	1:37:A:GLN:HG2	2	0.14	0.03	0.14
(2,1522)	1:57:A:LEU:HD13	1:60:A:PHE:HZ	2	0.14	0.04	0.14
(2,4291)	1:64:A:GLU:HG3	1:54:A:LYS:HE3	2	0.14	0.01	0.14
(2,4291)	1:64:A:GLU:HG2	1:54:A:LYS:HE2	2	0.14	0.01	0.14
(2,4850)	1:84:A:GLU:HB3	1:84:A:GLU:H	2	0.14	0.01	0.14
(2,1901)	1:116:A:GLU:HG3	1:118:A:ARG:H	2	0.14	0.01	0.14
(2,2405)	1:109:A:ILE:HB	1:115:A:ILE:HA	2	0.14	0.04	0.14
(2,3800)	1:129:A:VAL:HA	1:88:A:VAL:HG13	2	0.14	0.02	0.14
(2,3800)	1:129:A:VAL:HA	1:88:A:VAL:HG12	2	0.14	0.02	0.14
(2,956)	1:148:A:GLU:HB2	1:148:A:GLU:H	2	0.13	0.0	0.13
(2,3895)	1:120:A:GLN:HA	1:122:A:LEU:H	2	0.13	0.02	0.13
(2,4276)	1:75:A:GLU:HG2	1:74:A:PHE:HA	2	0.13	0.01	0.13
(2,4490)	1:128:A:LYS:HD3	1:90:A:PRO:HB3	2	0.13	0.02	0.13
(2,1309)	1:149:A:ILE:HG21	1:150:A:ILE:H	2	0.12	0.02	0.12
(2,1309)	1:149:A:ILE:HG23	1:150:A:ILE:H	2	0.12	0.02	0.12
(2,2121)	1:58:A:PRO:HB2	1:59:A:ILE:HA	2	0.12	0.02	0.12
(2,2628)	1:148:A:GLU:H	1:149:A:ILE:H	2	0.12	0.01	0.12
(2,3694)	1:150:A:ILE:HD12	1:69:A:ARG:HG3	2	0.12	0.02	0.12
(2,3694)	1:150:A:ILE:HD11	1:69:A:ARG:HG2	2	0.12	0.02	0.12
(2,754)	1:119:A:LYS:HA	1:122:A:LEU:HD21	2	0.12	0.02	0.12
(2,3199)	1:39:A:VAL:HG13	1:46:A:PHE:H	2	0.12	0.02	0.12
(2,3199)	1:39:A:VAL:HG12	1:46:A:PHE:H	2	0.12	0.02	0.12
(2,957)	1:148:A:GLU:HB3	1:148:A:GLU:H	2	0.12	0.0	0.12
(2,1024)	1:148:A:GLU:HG3	1:149:A:ILE:H	2	0.12	0.0	0.12
(2,2057)	1:150:A:ILE:HG13	1:149:A:ILE:HA	2	0.12	0.0	0.12

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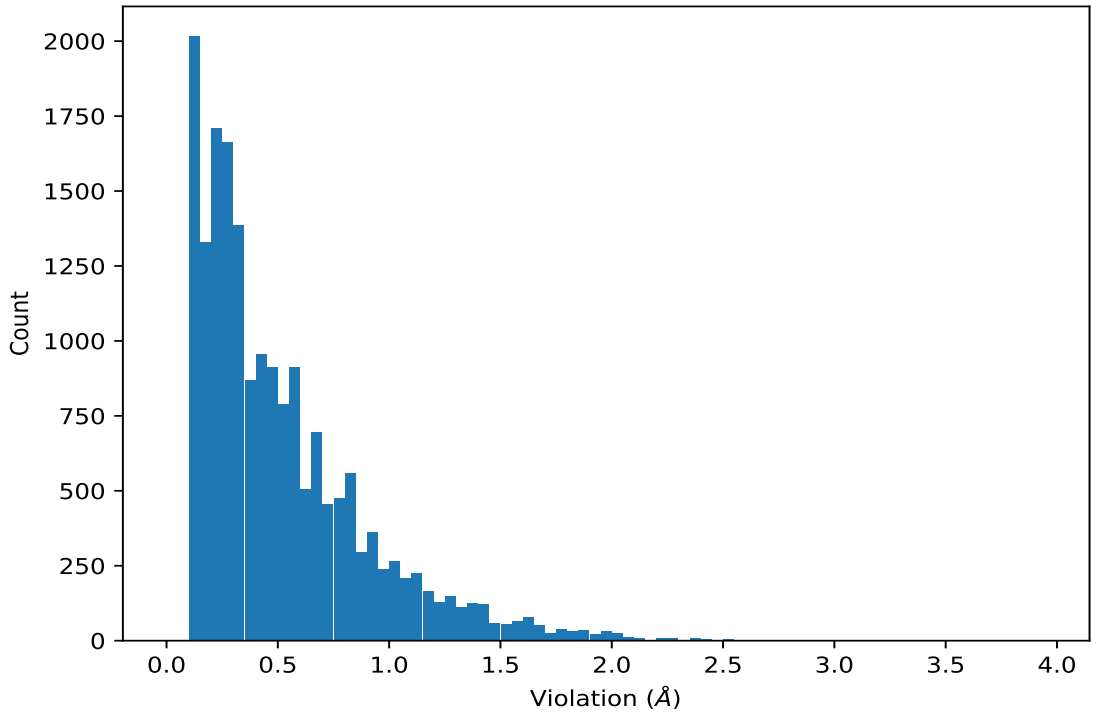
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,2834)	1:113:A:ASN:HA	1:113:A:ASN:HD21	2	0.12	0.0	0.12
(2,4569)	1:104:A:ARG:HB2	1:104:A:ARG:HG2	2	0.12	0.0	0.12
(2,96)	1:152:A:LYS:HA	1:152:A:LYS:HG3	2	0.11	0.0	0.11
(2,246)	1:150:A:ILE:HG12	1:150:A:ILE:H	2	0.11	0.01	0.11
(2,1042)	1:149:A:ILE:HA	1:149:A:ILE:HG12	2	0.11	0.01	0.11
(2,1201)	1:29:A:LEU:HD22	1:29:A:LEU:HD12	2	0.11	0.0	0.11
(2,1201)	1:29:A:LEU:HD21	1:29:A:LEU:HD12	2	0.11	0.0	0.11
(2,2030)	1:54:A:LYS:HB3	1:28:A:PHE:HD1	2	0.11	0.0	0.11
(2,2145)	1:33:A:VAL:HB	1:123:A:GLU:HA	2	0.11	0.01	0.11
(2,2543)	1:85:A:SER:HA	1:87:A:VAL:H	2	0.11	0.0	0.11
(2,2716)	1:35:A:ASN:HD22	1:35:A:ASN:HA	2	0.11	0.01	0.11
(2,3579)	1:38:A:THR:H	1:39:A:VAL:HG22	2	0.11	0.0	0.11
(2,3579)	1:38:A:THR:H	1:39:A:VAL:HG21	2	0.11	0.0	0.11
(2,3910)	1:119:A:LYS:HE3	1:120:A:GLN:HA	2	0.11	0.0	0.11
(2,1375)	1:96:A:ALA:HB1	1:98:A:LEU:H	2	0.11	0.0	0.11
(2,1375)	1:96:A:ALA:HB3	1:98:A:LEU:H	2	0.11	0.0	0.11
(2,1589)	1:141:A:LEU:HB2	1:141:A:LEU:HD12	2	0.11	0.0	0.11
(2,1589)	1:141:A:LEU:HB2	1:141:A:LEU:HD13	2	0.11	0.0	0.11
(2,4769)	1:9:A:ARG:H	1:9:A:ARG:HG2	2	0.11	0.0	0.11
(2,406)	1:87:A:VAL:HB	1:87:A:VAL:HG22	2	0.1	0.0	0.1
(2,406)	1:87:A:VAL:HB	1:87:A:VAL:HG21	2	0.1	0.0	0.1
(2,3952)	1:114:A:PHE:HB2	1:117:A:GLU:HB2	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)
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD12	6	3.92
(2,4190)	1:77:A:LEU:HD23	1:80:A:GLU:HB2	7	3.35
(2,4190)	1:77:A:LEU:HD21	1:80:A:GLU:HB2	16	3.24
(2,4398)	1:62:A:LEU:HD13	1:61:A:LYS:HD2	6	3.21
(2,628)	1:129:A:VAL:HG13	1:77:A:LEU:HD12	16	2.84
(2,628)	1:129:A:VAL:HG11	1:77:A:LEU:HD12	7	2.72
(2,2211)	1:77:A:LEU:HD13	1:125:A:PHE:HE2	7	2.71
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	9	2.71
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	13	2.68
(2,2370)	1:145:A:LEU:HD21	1:136:A:GLN:HE22	5	2.64
(2,4370)	1:62:A:LEU:HD11	1:141:A:LEU:HB3	14	2.62
(2,4504)	1:77:A:LEU:HD13	1:74:A:PHE:HB3	16	2.61
(2,3252)	1:62:A:LEU:HD21	1:64:A:GLU:H	6	2.56
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD12	1	2.53
(2,4370)	1:62:A:LEU:HD22	1:141:A:LEU:HB3	8	2.53
(2,4370)	1:62:A:LEU:HD21	1:141:A:LEU:HB3	11	2.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	3	2.51
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	15	2.5
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	17	2.5
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	16	2.49
(2,2211)	1:77:A:LEU:HD13	1:125:A:PHE:HE2	16	2.47
(2,4370)	1:62:A:LEU:HD22	1:141:A:LEU:HB3	1	2.43
(2,1984)	1:62:A:LEU:HD12	1:61:A:LYS:HG2	6	2.42
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	18	2.42
(2,4370)	1:62:A:LEU:HD12	1:141:A:LEU:HB3	2	2.41
(2,4370)	1:62:A:LEU:HD22	1:141:A:LEU:HB3	13	2.39
(2,2197)	1:126:A:ILE:HD13	1:77:A:LEU:HD12	7	2.39
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	12	2.39
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	11	2.39
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	5	2.36
(2,4504)	1:77:A:LEU:HD13	1:74:A:PHE:HB3	7	2.35
(2,4370)	1:62:A:LEU:HD23	1:141:A:LEU:HB3	6	2.35
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	14	2.31
(2,1613)	1:50:A:GLU:HG2	1:68:A:ARG:HG3	17	2.3
(2,4522)	1:160:A:ARG:HD3	1:57:A:LEU:HD22	4	2.29
(2,4370)	1:62:A:LEU:HD23	1:141:A:LEU:HB3	4	2.28
(2,4370)	1:62:A:LEU:HD22	1:141:A:LEU:HB3	17	2.28
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD11	15	2.28
(2,4370)	1:62:A:LEU:HD22	1:141:A:LEU:HB3	7	2.27
(2,4370)	1:62:A:LEU:HD11	1:148:A:GLU:HB2	15	2.26
(2,4370)	1:62:A:LEU:HD22	1:141:A:LEU:HB3	19	2.24
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	17	2.24
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	10	2.23
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	2	2.23
(2,1098)	1:11:A:LEU:HA	1:11:A:LEU:HD13	8	2.22
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD11	14	2.21
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	18	2.21
(2,4370)	1:62:A:LEU:HD22	1:141:A:LEU:HB3	18	2.2
(2,3269)	1:65:A:SER:H	1:62:A:LEU:HD23	6	2.2
(2,2197)	1:126:A:ILE:HD13	1:77:A:LEU:HD13	16	2.2
(2,4370)	1:62:A:LEU:HD22	1:141:A:LEU:HB3	16	2.19
(2,1068)	1:159:A:ILE:HD12	1:145:A:LEU:HD23	8	2.16
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD11	14	2.15
(2,4370)	1:62:A:LEU:HD13	1:141:A:LEU:HB3	9	2.14
(2,4086)	1:51:A:ILE:HD13	1:73:A:ASP:HB3	18	2.14
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD22	16	2.14
(2,1068)	1:159:A:ILE:HD13	1:145:A:LEU:HD23	20	2.14
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD23	4	2.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE2	12	2.13
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	20	2.12
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE3	7	2.11
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD21	2	2.09
(2,2370)	1:145:A:LEU:HD22	1:136:A:GLN:HE22	10	2.09
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	2	2.08
(2,1295)	1:51:A:ILE:HD11	1:122:A:LEU:HB2	17	2.08
(2,4146)	1:64:A:GLU:HG3	1:54:A:LYS:HG2	3	2.07
(2,3769)	1:53:A:VAL:HG23	1:57:A:LEU:HD21	3	2.07
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD22	6	2.07
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD23	14	2.07
(2,461)	1:48:A:THR:HG21	1:68:A:ARG:HG2	8	2.07
(2,3769)	1:53:A:VAL:HG21	1:57:A:LEU:HD21	5	2.06
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	11	2.06
(2,4209)	1:61:A:LYS:HE3	1:62:A:LEU:HD13	6	2.05
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	17	2.04
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	14	2.04
(2,1295)	1:51:A:ILE:HD11	1:122:A:LEU:HB2	8	2.04
(2,1295)	1:51:A:ILE:HD13	1:122:A:LEU:HB2	18	2.04
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE1	17	2.04
(2,4345)	1:145:A:LEU:HD11	1:146:A:GLN:HG2	15	2.03
(2,4086)	1:51:A:ILE:HD11	1:73:A:ASP:HB3	12	2.03
(2,3769)	1:53:A:VAL:HG23	1:57:A:LEU:HD22	15	2.03
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	16	2.03
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	3	2.03
(2,1295)	1:51:A:ILE:HD13	1:122:A:LEU:HB2	1	2.03
(2,1295)	1:51:A:ILE:HD12	1:122:A:LEU:HB2	7	2.03
(2,461)	1:48:A:THR:HG21	1:68:A:ARG:HG2	9	2.03
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD13	2	2.02
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	17	2.02
(2,1295)	1:51:A:ILE:HD11	1:122:A:LEU:HB2	4	2.02
(2,461)	1:48:A:THR:HG22	1:68:A:ARG:HG2	10	2.02
(2,461)	1:48:A:THR:HG21	1:68:A:ARG:HG2	15	2.02
(2,4086)	1:51:A:ILE:HD11	1:144:A:PHE:HB3	19	2.01
(2,3769)	1:53:A:VAL:HG21	1:57:A:LEU:HD22	1	2.01
(2,1295)	1:51:A:ILE:HD13	1:122:A:LEU:HB2	19	2.01
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD22	10	2.0
(2,1982)	1:61:A:LYS:HB3	1:62:A:LEU:HD12	6	2.0
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	7	2.0
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	11	2.0
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD23	8	1.99
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD23	18	1.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1953)	1:145:A:LEU:HD23	1:141:A:LEU:HB3	20	1.99
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	10	1.99
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	14	1.99
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	20	1.99
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD21	13	1.99
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD12	5	1.98
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD13	11	1.98
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	8	1.98
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	9	1.98
(2,1389)	1:41:A:VAL:HG23	1:44:A:GLY:HA2	4	1.98
(2,1389)	1:41:A:VAL:HG23	1:44:A:GLY:HA2	12	1.98
(2,461)	1:48:A:THR:HG22	1:68:A:ARG:HG2	7	1.98
(2,4340)	1:144:A:PHE:HA	1:126:A:ILE:HD13	13	1.97
(2,3769)	1:53:A:VAL:HG23	1:57:A:LEU:HD22	7	1.97
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	8	1.97
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	10	1.97
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	4	1.97
(2,4370)	1:62:A:LEU:HD22	1:141:A:LEU:HB3	3	1.96
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	2	1.96
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	6	1.96
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	8	1.96
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	12	1.96
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	13	1.96
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	15	1.96
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	16	1.96
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	19	1.96
(2,1389)	1:41:A:VAL:HG23	1:44:A:GLY:HA2	6	1.96
(2,1389)	1:41:A:VAL:HG22	1:44:A:GLY:HA2	11	1.96
(2,1295)	1:51:A:ILE:HD11	1:122:A:LEU:HB2	12	1.96
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	5	1.95
(2,1389)	1:41:A:VAL:HG22	1:44:A:GLY:HA2	17	1.95
(2,1389)	1:41:A:VAL:HG22	1:44:A:GLY:HA2	18	1.95
(2,1389)	1:41:A:VAL:HG22	1:44:A:GLY:HA2	19	1.95
(2,4056)	1:29:A:LEU:HD21	1:129:A:VAL:HG21	19	1.94
(2,3769)	1:53:A:VAL:HG23	1:57:A:LEU:HD23	17	1.94
(2,3769)	1:53:A:VAL:HG23	1:57:A:LEU:HD22	19	1.94
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	18	1.94
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD13	17	1.93
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG23	8	1.93
(2,1389)	1:41:A:VAL:HG21	1:44:A:GLY:HA2	1	1.93
(2,1389)	1:41:A:VAL:HG22	1:44:A:GLY:HA2	16	1.93
(2,1295)	1:51:A:ILE:HD12	1:122:A:LEU:HB2	2	1.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1295)	1:51:A:ILE:HD11	1:122:A:LEU:HB2	6	1.93
(2,1295)	1:51:A:ILE:HD11	1:122:A:LEU:HB2	13	1.93
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	17	1.92
(2,4340)	1:144:A:PHE:HA	1:126:A:ILE:HD13	19	1.91
(2,3769)	1:53:A:VAL:HG21	1:57:A:LEU:HD21	9	1.91
(2,3769)	1:53:A:VAL:HG21	1:57:A:LEU:HD22	12	1.91
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	3	1.91
(2,1389)	1:41:A:VAL:HG21	1:44:A:GLY:HA2	9	1.91
(2,1389)	1:41:A:VAL:HG22	1:44:A:GLY:HA2	14	1.91
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD21	3	1.9
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD22	6	1.9
(2,3769)	1:53:A:VAL:HG22	1:57:A:LEU:HD23	13	1.9
(2,1613)	1:50:A:GLU:HG2	1:68:A:ARG:HG3	7	1.9
(2,1389)	1:41:A:VAL:HG21	1:44:A:GLY:HA2	15	1.9
(2,4180)	1:141:A:LEU:HD13	1:144:A:PHE:HZ	20	1.89
(2,4011)	1:139:A:ARG:HB2	1:59:A:ILE:HD11	11	1.89
(2,1389)	1:41:A:VAL:HG23	1:44:A:GLY:HA2	2	1.89
(2,1389)	1:41:A:VAL:HG21	1:44:A:GLY:HA2	8	1.89
(2,1295)	1:51:A:ILE:HD13	1:122:A:LEU:HB2	9	1.89
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG23	16	1.88
(2,4340)	1:144:A:PHE:HA	1:126:A:ILE:HD11	5	1.88
(2,4180)	1:141:A:LEU:HD11	1:154:A:TYR:HE2	17	1.88
(2,4086)	1:51:A:ILE:HD12	1:73:A:ASP:HB3	2	1.88
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE2	14	1.88
(2,3695)	1:150:A:ILE:HG22	1:149:A:ILE:HG21	13	1.88
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	17	1.88
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	16	1.88
(2,1463)	1:133:A:PRO:HD3	1:88:A:VAL:H	1	1.88
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE1	11	1.88
(2,3769)	1:53:A:VAL:HG21	1:57:A:LEU:HD23	20	1.87
(2,2680)	1:139:A:ARG:HG2	1:155:A:THR:H	3	1.87
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE1	2	1.87
(2,4530)	1:33:A:VAL:HG13	1:144:A:PHE:HD1	11	1.86
(2,4180)	1:141:A:LEU:HD11	1:154:A:TYR:HE2	5	1.86
(2,2680)	1:139:A:ARG:HG2	1:155:A:THR:H	7	1.86
(2,1953)	1:145:A:LEU:HD23	1:141:A:LEU:HB3	8	1.86
(2,1295)	1:51:A:ILE:HD13	1:122:A:LEU:HB2	11	1.86
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE1	9	1.86
(2,4562)	1:83:A:ARG:HD2	1:84:A:GLU:HG3	10	1.85
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG22	15	1.85
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD13	13	1.85
(2,3769)	1:53:A:VAL:HG21	1:57:A:LEU:HD22	11	1.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE1	1	1.85
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE2	20	1.85
(2,4370)	1:62:A:LEU:HD23	1:141:A:LEU:HB3	5	1.84
(2,4370)	1:62:A:LEU:HD22	1:141:A:LEU:HB3	12	1.84
(2,2680)	1:139:A:ARG:HG2	1:155:A:THR:H	17	1.84
(2,4562)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	7	1.83
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD22	19	1.83
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD11	4	1.83
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE1	4	1.83
(2,2680)	1:139:A:ARG:HG2	1:155:A:THR:H	16	1.83
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	7	1.83
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG21	7	1.83
(2,4562)	1:83:A:ARG:HD2	1:84:A:GLU:HG3	15	1.82
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG21	14	1.82
(2,4180)	1:141:A:LEU:HD11	1:154:A:TYR:HE2	14	1.82
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	18	1.82
(2,4056)	1:29:A:LEU:HD22	1:129:A:VAL:HG21	3	1.82
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HG23	17	1.82
(2,1366)	1:101:A:LEU:HD21	1:101:A:LEU:HA	18	1.82
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG21	12	1.81
(2,4340)	1:144:A:PHE:HA	1:126:A:ILE:HD13	3	1.81
(2,4180)	1:141:A:LEU:HD12	1:144:A:PHE:HZ	15	1.81
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	5	1.81
(2,1389)	1:41:A:VAL:HG22	1:44:A:GLY:HA2	7	1.81
(2,1389)	1:41:A:VAL:HG22	1:44:A:GLY:HA2	20	1.81
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE2	8	1.81
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD21	10	1.8
(2,4180)	1:141:A:LEU:HD12	1:154:A:TYR:HE2	8	1.8
(2,4011)	1:139:A:ARG:HB2	1:59:A:ILE:HD13	8	1.8
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	4	1.8
(2,3695)	1:150:A:ILE:HG22	1:149:A:ILE:HG22	14	1.8
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HG23	16	1.8
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG23	20	1.8
(2,4562)	1:83:A:ARG:HD2	1:84:A:GLU:HG3	14	1.79
(2,4370)	1:62:A:LEU:HD12	1:148:A:GLU:HB2	20	1.79
(2,4365)	1:145:A:LEU:HD23	1:146:A:GLN:HG3	3	1.79
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	5	1.79
(2,4056)	1:29:A:LEU:HD22	1:129:A:VAL:HG22	9	1.79
(2,4011)	1:139:A:ARG:HB2	1:141:A:LEU:HD13	17	1.79
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE2	20	1.79
(2,15)	1:32:A:ASP:HB2	1:52:A:ARG:HB3	14	1.79
(2,4086)	1:51:A:ILE:HD13	1:73:A:ASP:HB3	1	1.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD13	5	1.78
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD12	16	1.78
(2,2680)	1:139:A:ARG:HG2	1:155:A:THR:H	15	1.78
(2,2680)	1:139:A:ARG:HG2	1:155:A:THR:H	19	1.78
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	9	1.78
(2,1366)	1:101:A:LEU:HD23	1:101:A:LEU:HA	13	1.78
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD11	15	1.77
(2,3767)	1:53:A:VAL:HG21	1:31:A:ILE:HB	5	1.77
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HG22	11	1.77
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	6	1.77
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD12	9	1.76
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG21	19	1.76
(2,4370)	1:62:A:LEU:HD11	1:148:A:GLU:HB2	10	1.76
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	19	1.76
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD11	3	1.76
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE1	11	1.76
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE2	13	1.76
(2,2680)	1:139:A:ARG:HG2	1:155:A:THR:H	12	1.76
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	9	1.76
(2,1389)	1:41:A:VAL:HG21	1:44:A:GLY:HA2	5	1.76
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD22	16	1.75
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	13	1.75
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	16	1.75
(2,4056)	1:29:A:LEU:HD21	1:129:A:VAL:HG22	1	1.75
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HG21	9	1.75
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HD13	1	1.75
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG22	17	1.75
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	19	1.75
(2,4530)	1:33:A:VAL:HG13	1:144:A:PHE:HD2	13	1.74
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	11	1.74
(2,4056)	1:29:A:LEU:HD22	1:129:A:VAL:HG23	10	1.74
(2,3695)	1:150:A:ILE:HG21	1:149:A:ILE:HG21	6	1.74
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	1	1.74
(2,2315)	1:77:A:LEU:HD21	1:144:A:PHE:H	7	1.74
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD12	18	1.73
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG23	13	1.73
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	4	1.73
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	12	1.73
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	7	1.73
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	4	1.73
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE1	19	1.73
(2,4340)	1:144:A:PHE:HA	1:126:A:ILE:HD13	11	1.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	8	1.72
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	9	1.72
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE1	5	1.72
(2,2370)	1:145:A:LEU:HD21	1:136:A:GLN:HE22	13	1.72
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	1	1.72
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD21	8	1.71
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD12	12	1.71
(2,4146)	1:64:A:GLU:HG3	1:54:A:LYS:HG2	1	1.71
(2,4086)	1:51:A:ILE:HD12	1:73:A:ASP:HB3	7	1.71
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG23	18	1.71
(2,1389)	1:41:A:VAL:HG22	1:44:A:GLY:HA2	10	1.71
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG21	10	1.7
(2,4522)	1:99:A:ARG:HD3	1:101:A:LEU:HD22	20	1.7
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG23	1	1.7
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	7	1.7
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	14	1.7
(2,4056)	1:29:A:LEU:HD22	1:129:A:VAL:HG23	20	1.7
(2,4011)	1:139:A:ARG:HB2	1:141:A:LEU:HD11	19	1.7
(2,3767)	1:53:A:VAL:HG21	1:57:A:LEU:HB2	8	1.7
(2,3695)	1:150:A:ILE:HG22	1:149:A:ILE:HG21	4	1.7
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG22	9	1.7
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	7	1.7
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	10	1.7
(2,1389)	1:41:A:VAL:HG23	1:44:A:GLY:HA2	13	1.7
(2,4562)	1:83:A:ARG:HD2	1:84:A:GLU:HG3	2	1.69
(2,4562)	1:83:A:ARG:HD2	1:84:A:GLU:HG3	18	1.69
(2,4086)	1:51:A:ILE:HD13	1:73:A:ASP:HB3	10	1.69
(2,2270)	1:145:A:LEU:HD13	1:144:A:PHE:HD1	11	1.69
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	19	1.69
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	20	1.69
(2,4955)	1:100:A:GLN:HE22	1:101:A:LEU:HD21	18	1.68
(2,4056)	1:29:A:LEU:HD23	1:129:A:VAL:HG22	8	1.68
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD12	2	1.68
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE2	12	1.68
(2,3767)	1:53:A:VAL:HG22	1:31:A:ILE:HB	4	1.68
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	6	1.68
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE1	10	1.68
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD23	13	1.67
(2,4331)	1:141:A:LEU:HD11	1:81:A:LEU:HB2	4	1.67
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	6	1.67
(2,4056)	1:29:A:LEU:HD23	1:129:A:VAL:HG21	4	1.67
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD12	1	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4011)	1:139:A:ARG:HB2	1:59:A:ILE:HD13	20	1.67
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE1	10	1.67
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE2	16	1.67
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	5	1.67
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	17	1.67
(2,2370)	1:145:A:LEU:HD22	1:136:A:GLN:HE22	16	1.67
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG23	20	1.67
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	12	1.67
(2,4180)	1:141:A:LEU:HD12	1:154:A:TYR:HE2	19	1.66
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	15	1.66
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD12	10	1.66
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE2	17	1.66
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	13	1.66
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG23	1	1.66
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG21	5	1.66
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG22	6	1.66
(2,1502)	1:57:A:LEU:HD23	1:29:A:LEU:HB3	18	1.66
(2,1098)	1:11:A:LEU:HA	1:11:A:LEU:HD12	15	1.66
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE1	5	1.66
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD22	18	1.66
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	7	1.65
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG22	10	1.65
(2,4340)	1:144:A:PHE:HA	1:126:A:ILE:HD12	17	1.65
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	2	1.65
(2,4056)	1:29:A:LEU:HD22	1:129:A:VAL:HG23	5	1.65
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HD13	18	1.65
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB3	18	1.65
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	3	1.65
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD2	14	1.65
(2,1502)	1:57:A:LEU:HD23	1:29:A:LEU:HB3	19	1.65
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	7	1.65
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	15	1.65
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG23	9	1.64
(2,4530)	1:33:A:VAL:HG11	1:144:A:PHE:HD1	3	1.64
(2,4185)	1:77:A:LEU:HD22	1:138:A:GLU:H	4	1.64
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	10	1.64
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD12	4	1.64
(2,3767)	1:53:A:VAL:HG23	1:57:A:LEU:HB2	12	1.64
(2,3695)	1:150:A:ILE:HG21	1:149:A:ILE:HG23	8	1.64
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	12	1.64
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG21	8	1.64
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG21	11	1.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG21	16	1.64
(2,1502)	1:57:A:LEU:HD21	1:29:A:LEU:HB3	2	1.64
(2,1502)	1:57:A:LEU:HD23	1:29:A:LEU:HB3	11	1.64
(2,1502)	1:57:A:LEU:HD23	1:29:A:LEU:HB3	15	1.64
(2,1501)	1:57:A:LEU:HD23	1:136:A:GLN:HB2	3	1.64
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	18	1.64
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	15	1.64
(2,1389)	1:41:A:VAL:HG21	1:44:A:GLY:HA2	3	1.64
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE2	6	1.64
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG23	6	1.64
(2,4530)	1:33:A:VAL:HG13	1:144:A:PHE:HD1	14	1.63
(2,4331)	1:141:A:LEU:HD13	1:81:A:LEU:HB2	3	1.63
(2,4153)	1:57:A:LEU:HD22	1:24:A:PRO:HB2	5	1.63
(2,3767)	1:53:A:VAL:HG22	1:57:A:LEU:HB2	10	1.63
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HG23	2	1.63
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	11	1.63
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	8	1.63
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG22	7	1.63
(2,1502)	1:57:A:LEU:HD23	1:29:A:LEU:HB3	4	1.63
(2,1502)	1:57:A:LEU:HD22	1:29:A:LEU:HB3	6	1.63
(2,1502)	1:57:A:LEU:HD23	1:29:A:LEU:HB3	13	1.63
(2,1323)	1:150:A:ILE:HG23	1:149:A:ILE:HG22	1	1.63
(2,1323)	1:150:A:ILE:HG22	1:149:A:ILE:HG21	13	1.63
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	4	1.63
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	9	1.62
(2,4530)	1:33:A:VAL:HG12	1:144:A:PHE:HD1	2	1.62
(2,4530)	1:33:A:VAL:HG11	1:49:A:TYR:HD2	5	1.62
(2,4180)	1:141:A:LEU:HD12	1:154:A:TYR:HE2	10	1.62
(2,4056)	1:29:A:LEU:HD21	1:129:A:VAL:HG23	2	1.62
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD12	12	1.62
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	13	1.62
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	16	1.62
(2,2680)	1:139:A:ARG:HG2	1:155:A:THR:H	14	1.62
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG22	3	1.62
(2,1501)	1:57:A:LEU:HD21	1:136:A:GLN:HB2	16	1.62
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	6	1.62
(2,4056)	1:29:A:LEU:HD23	1:129:A:VAL:HG22	11	1.61
(2,3786)	1:143:A:MET:HE3	1:149:A:ILE:HG23	3	1.61
(2,3767)	1:53:A:VAL:HG21	1:57:A:LEU:HB2	9	1.61
(2,3695)	1:150:A:ILE:HG22	1:149:A:ILE:HG21	9	1.61
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	3	1.61
(2,2680)	1:139:A:ARG:HG2	1:155:A:THR:H	13	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1502)	1:57:A:LEU:HD22	1:29:A:LEU:HB3	1	1.61
(2,1502)	1:57:A:LEU:HD23	1:29:A:LEU:HB3	8	1.61
(2,1502)	1:57:A:LEU:HD21	1:29:A:LEU:HB3	17	1.61
(2,461)	1:48:A:THR:HG23	1:68:A:ARG:HG2	17	1.61
(2,4530)	1:33:A:VAL:HG12	1:144:A:PHE:HD2	10	1.6
(2,4331)	1:141:A:LEU:HD13	1:81:A:LEU:HB2	19	1.6
(2,4190)	1:77:A:LEU:HD21	1:80:A:GLU:HB2	12	1.6
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD12	18	1.6
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE2	3	1.6
(2,3767)	1:53:A:VAL:HG23	1:57:A:LEU:HB2	1	1.6
(2,3767)	1:53:A:VAL:HG22	1:31:A:ILE:HB	14	1.6
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG23	10	1.6
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG23	13	1.6
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG21	15	1.6
(2,3695)	1:150:A:ILE:HG22	1:149:A:ILE:HG22	5	1.59
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	5	1.59
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB1	10	1.59
(2,2315)	1:77:A:LEU:HD22	1:144:A:PHE:H	16	1.59
(2,1502)	1:57:A:LEU:HD21	1:29:A:LEU:HB3	3	1.59
(2,1502)	1:57:A:LEU:HD23	1:29:A:LEU:HB3	7	1.59
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE1	4	1.59
(2,1068)	1:159:A:ILE:HD11	1:145:A:LEU:HD23	10	1.59
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	18	1.59
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	10	1.59
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG23	8	1.58
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG23	3	1.58
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG21	11	1.58
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD13	2	1.58
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE3	15	1.58
(2,3767)	1:53:A:VAL:HG22	1:57:A:LEU:HB2	3	1.58
(2,3767)	1:53:A:VAL:HG22	1:57:A:LEU:HB2	18	1.58
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	12	1.58
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG21	2	1.58
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG23	19	1.58
(2,1502)	1:57:A:LEU:HD22	1:29:A:LEU:HB3	10	1.58
(2,1502)	1:57:A:LEU:HD22	1:29:A:LEU:HB3	16	1.58
(2,1502)	1:57:A:LEU:HD23	1:29:A:LEU:HB3	20	1.58
(2,1501)	1:57:A:LEU:HD22	1:136:A:GLN:HB2	15	1.58
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	13	1.58
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE2	16	1.58
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG21	10	1.58
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG21	4	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG23	17	1.57
(2,4185)	1:77:A:LEU:HD22	1:128:A:LYS:H	7	1.57
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD11	6	1.57
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	1	1.57
(2,2370)	1:145:A:LEU:HD22	1:136:A:GLN:HE22	15	1.57
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG21	14	1.57
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD12	20	1.57
(2,1502)	1:57:A:LEU:HD23	1:29:A:LEU:HB3	14	1.57
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	12	1.57
(2,1323)	1:150:A:ILE:HG23	1:149:A:ILE:HG23	17	1.57
(2,1068)	1:159:A:ILE:HD13	1:145:A:LEU:HD23	19	1.57
(2,4185)	1:77:A:LEU:HD23	1:128:A:LYS:H	16	1.56
(2,4180)	1:141:A:LEU:HD11	1:154:A:TYR:HE2	13	1.56
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD11	12	1.56
(2,4086)	1:51:A:ILE:HD11	1:73:A:ASP:HB3	17	1.56
(2,3767)	1:53:A:VAL:HG22	1:31:A:ILE:HB	16	1.56
(2,3695)	1:150:A:ILE:HG22	1:149:A:ILE:HG23	3	1.56
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB3	9	1.56
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	13	1.56
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG23	4	1.56
(2,1613)	1:50:A:GLU:HG2	1:68:A:ARG:HG3	8	1.56
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD13	19	1.56
(2,1502)	1:57:A:LEU:HD22	1:29:A:LEU:HB3	12	1.56
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	4	1.56
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE2	3	1.56
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	20	1.55
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD11	9	1.55
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG22	7	1.55
(2,4331)	1:141:A:LEU:HD11	1:81:A:LEU:HB2	1	1.55
(2,4185)	1:77:A:LEU:HD22	1:138:A:GLU:H	1	1.55
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	9	1.55
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE2	8	1.55
(2,3767)	1:53:A:VAL:HG21	1:31:A:ILE:HB	15	1.55
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD11	6	1.55
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD11	15	1.55
(2,1502)	1:57:A:LEU:HD21	1:29:A:LEU:HB3	5	1.55
(2,1323)	1:150:A:ILE:HG22	1:149:A:ILE:HG22	14	1.55
(2,1323)	1:150:A:ILE:HG23	1:149:A:ILE:HG23	16	1.55
(2,4505)	1:77:A:LEU:HD12	1:144:A:PHE:HA	5	1.54
(2,4453)	1:52:A:ARG:HB3	1:51:A:ILE:HG21	14	1.54
(2,4180)	1:141:A:LEU:HD11	1:154:A:TYR:HE2	11	1.54
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE1	1	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	16	1.54
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD11	5	1.54
(2,1502)	1:57:A:LEU:HD21	1:29:A:LEU:HB3	9	1.54
(2,1323)	1:150:A:ILE:HG23	1:149:A:ILE:HG23	18	1.54
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG23	5	1.53
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	3	1.53
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	9	1.53
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	17	1.53
(2,4331)	1:141:A:LEU:HD12	1:81:A:LEU:HB2	13	1.53
(2,4153)	1:57:A:LEU:HD23	1:24:A:PRO:HB2	10	1.53
(2,3748)	1:0:A:GLY:HA2	1:1:A:THR:HG21	16	1.53
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	10	1.53
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD11	1	1.53
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD12	18	1.53
(2,1501)	1:57:A:LEU:HD21	1:136:A:GLN:HB2	6	1.53
(2,1501)	1:57:A:LEU:HD22	1:136:A:GLN:HB2	13	1.53
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	7	1.52
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	14	1.52
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG21	6	1.52
(2,4345)	1:145:A:LEU:HD11	1:141:A:LEU:HB3	1	1.52
(2,4331)	1:141:A:LEU:HD11	1:81:A:LEU:HB2	18	1.52
(2,3767)	1:53:A:VAL:HG21	1:57:A:LEU:HB2	6	1.52
(2,2370)	1:145:A:LEU:HD23	1:136:A:GLN:HE22	9	1.52
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD12	4	1.52
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD11	12	1.52
(2,1501)	1:57:A:LEU:HD22	1:136:A:GLN:HB2	8	1.52
(2,1323)	1:150:A:ILE:HG23	1:149:A:ILE:HG22	11	1.52
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD11	15	1.51
(2,4530)	1:33:A:VAL:HG13	1:49:A:TYR:HD1	19	1.51
(2,4334)	1:141:A:LEU:HD21	1:29:A:LEU:HD11	11	1.51
(2,4270)	1:97:A:PHE:HB3	1:114:A:PHE:H	7	1.51
(2,4011)	1:139:A:ARG:HB3	1:141:A:LEU:HD13	9	1.51
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD2	15	1.51
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD13	7	1.51
(2,1501)	1:57:A:LEU:HD23	1:136:A:GLN:HB2	2	1.51
(2,1501)	1:57:A:LEU:HD22	1:136:A:GLN:HB2	14	1.51
(2,1501)	1:57:A:LEU:HD22	1:136:A:GLN:HB2	18	1.51
(2,1045)	1:148:A:GLU:HB2	1:149:A:ILE:HG12	10	1.51
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG21	13	1.5
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG21	19	1.5
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	17	1.5
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	10	1.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	11	1.5
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	15	1.5
(2,4185)	1:77:A:LEU:HD23	1:138:A:GLU:H	19	1.5
(2,4146)	1:64:A:GLU:HG2	1:54:A:LYS:HG2	20	1.5
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD12	10	1.5
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	12	1.5
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	15	1.5
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	19	1.5
(2,1045)	1:148:A:GLU:HB2	1:149:A:ILE:HG12	20	1.5
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	6	1.49
(2,4331)	1:141:A:LEU:HD12	1:81:A:LEU:HB2	17	1.49
(2,4180)	1:141:A:LEU:HD12	1:154:A:TYR:HE2	6	1.49
(2,3767)	1:53:A:VAL:HG23	1:57:A:LEU:HB2	19	1.49
(2,2270)	1:145:A:LEU:HD13	1:144:A:PHE:HD1	5	1.49
(2,1323)	1:150:A:ILE:HG21	1:149:A:ILE:HG21	6	1.49
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE3	15	1.49
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	12	1.49
(2,4562)	1:83:A:ARG:HD2	1:84:A:GLU:HG3	11	1.48
(2,4562)	1:83:A:ARG:HD2	1:84:A:GLU:HG3	16	1.48
(2,4562)	1:83:A:ARG:HD2	1:84:A:GLU:HG3	17	1.48
(2,4530)	1:33:A:VAL:HG13	1:144:A:PHE:HD1	9	1.48
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	16	1.48
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG23	18	1.48
(2,4365)	1:145:A:LEU:HD23	1:146:A:GLN:HG3	11	1.48
(2,4180)	1:141:A:LEU:HD12	1:154:A:TYR:HE2	1	1.48
(2,4153)	1:57:A:LEU:HD22	1:24:A:PRO:HB2	9	1.48
(2,4135)	1:137:A:ASN:HB3	1:158:A:LYS:HG3	5	1.48
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HG21	10	1.48
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HG21	19	1.48
(2,3767)	1:53:A:VAL:HG23	1:57:A:LEU:HB2	17	1.48
(2,1867)	1:98:A:LEU:HD11	1:97:A:PHE:HB3	7	1.48
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD11	13	1.48
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD12	17	1.48
(2,1501)	1:57:A:LEU:HD21	1:136:A:GLN:HB2	10	1.48
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	7	1.48
(2,4841)	1:66:A:THR:H	1:62:A:LEU:HG	6	1.47
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG21	20	1.47
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	18	1.47
(2,4334)	1:141:A:LEU:HD23	1:29:A:LEU:HD12	20	1.47
(2,4331)	1:141:A:LEU:HD11	1:81:A:LEU:HB2	15	1.47
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	17	1.47
(2,4185)	1:77:A:LEU:HD21	1:138:A:GLU:H	2	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4185)	1:77:A:LEU:HD22	1:138:A:GLU:H	12	1.47
(2,4153)	1:57:A:LEU:HD23	1:24:A:PRO:HB2	16	1.47
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HB2	6	1.47
(2,4086)	1:51:A:ILE:HD11	1:73:A:ASP:HB3	13	1.47
(2,4056)	1:29:A:LEU:HD23	1:129:A:VAL:HG21	17	1.47
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	2	1.47
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	20	1.47
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	10	1.47
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD12	8	1.47
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD12	11	1.47
(2,1501)	1:57:A:LEU:HD21	1:136:A:GLN:HB2	12	1.47
(2,1045)	1:148:A:GLU:HB2	1:149:A:ILE:HG12	7	1.47
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	3	1.47
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	19	1.46
(2,4331)	1:141:A:LEU:HD12	1:81:A:LEU:HB2	10	1.46
(2,4331)	1:141:A:LEU:HD13	1:81:A:LEU:HB2	11	1.46
(2,4331)	1:141:A:LEU:HD12	1:81:A:LEU:HB2	20	1.46
(2,4185)	1:77:A:LEU:HD21	1:138:A:GLU:H	9	1.46
(2,4185)	1:77:A:LEU:HD21	1:138:A:GLU:H	10	1.46
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD13	10	1.46
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	19	1.46
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	16	1.46
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	13	1.46
(2,1045)	1:148:A:GLU:HB2	1:149:A:ILE:HG12	19	1.46
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	20	1.46
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	13	1.45
(2,4530)	1:33:A:VAL:HG13	1:144:A:PHE:HD1	17	1.45
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	2	1.45
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	6	1.45
(2,4365)	1:145:A:LEU:HD21	1:146:A:GLN:HG3	19	1.45
(2,4331)	1:141:A:LEU:HD11	1:81:A:LEU:HB2	14	1.45
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	14	1.45
(2,4185)	1:77:A:LEU:HD21	1:138:A:GLU:H	3	1.45
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD13	7	1.45
(2,3767)	1:53:A:VAL:HG23	1:57:A:LEU:HB2	7	1.45
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD13	3	1.45
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	20	1.45
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	9	1.45
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB1	13	1.45
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	3	1.45
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	4	1.45
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	5	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	20	1.45
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD13	16	1.45
(2,1501)	1:57:A:LEU:HD21	1:136:A:GLN:HB2	1	1.45
(2,1501)	1:57:A:LEU:HD22	1:136:A:GLN:HB2	7	1.45
(2,1323)	1:150:A:ILE:HG22	1:149:A:ILE:HG21	4	1.45
(2,1292)	1:51:A:ILE:HD12	1:122:A:LEU:HD23	20	1.45
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	15	1.45
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG22	6	1.44
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG21	15	1.44
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG21	17	1.44
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	12	1.44
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	11	1.44
(2,4331)	1:141:A:LEU:HD11	1:81:A:LEU:HB2	2	1.44
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	9	1.44
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	7	1.44
(2,4185)	1:77:A:LEU:HD23	1:138:A:GLU:H	5	1.44
(2,4153)	1:57:A:LEU:HD21	1:24:A:PRO:HB2	15	1.44
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD13	3	1.44
(2,4086)	1:51:A:ILE:HD11	1:73:A:ASP:HB3	8	1.44
(2,4086)	1:51:A:ILE:HD13	1:73:A:ASP:HB3	9	1.44
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	10	1.44
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	5	1.44
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	2	1.44
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	9	1.44
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	11	1.44
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	18	1.44
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	1	1.44
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	11	1.44
(2,4586)	1:100:A:GLN:HG3	1:98:A:LEU:HD11	12	1.43
(2,4562)	1:83:A:ARG:HD2	1:84:A:GLU:HG3	8	1.43
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	8	1.43
(2,4365)	1:145:A:LEU:HD23	1:146:A:GLN:HG3	17	1.43
(2,4331)	1:141:A:LEU:HD11	1:81:A:LEU:HB2	8	1.43
(2,4190)	1:77:A:LEU:HD21	1:80:A:GLU:HG2	18	1.43
(2,4153)	1:57:A:LEU:HD21	1:24:A:PRO:HB2	8	1.43
(2,4056)	1:29:A:LEU:HD22	1:129:A:VAL:HG22	13	1.43
(2,4056)	1:29:A:LEU:HD22	1:129:A:VAL:HG23	14	1.43
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG22	9	1.43
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE1	2	1.43
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	9	1.43
(2,2283)	1:156:A:PRO:HB3	1:155:A:THR:HG21	12	1.43
(2,2105)	1:14:A:LYS:HE3	1:13:A:THR:H	13	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	6	1.43
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	14	1.43
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	19	1.43
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	6	1.43
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	7	1.43
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	11	1.43
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	17	1.43
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD11	2	1.43
(2,1501)	1:57:A:LEU:HD22	1:136:A:GLN:HB2	11	1.43
(2,1501)	1:57:A:LEU:HD23	1:136:A:GLN:HB2	17	1.43
(2,1501)	1:57:A:LEU:HD22	1:136:A:GLN:HB2	20	1.43
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	5	1.43
(2,1045)	1:148:A:GLU:HB2	1:149:A:ILE:HG12	12	1.43
(2,1045)	1:148:A:GLU:HB2	1:149:A:ILE:HG12	15	1.43
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	4	1.43
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	13	1.43
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG23	16	1.42
(2,4530)	1:33:A:VAL:HG11	1:144:A:PHE:HD1	4	1.42
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	5	1.42
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	7	1.42
(2,4334)	1:129:A:VAL:HG13	1:141:A:LEU:HD21	17	1.42
(2,4331)	1:141:A:LEU:HD13	1:81:A:LEU:HB2	6	1.42
(2,4331)	1:141:A:LEU:HD12	1:81:A:LEU:HB2	7	1.42
(2,4331)	1:141:A:LEU:HD11	1:81:A:LEU:HB2	12	1.42
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	9	1.42
(2,4185)	1:77:A:LEU:HD22	1:138:A:GLU:H	18	1.42
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HB2	12	1.42
(2,4086)	1:51:A:ILE:HD13	1:73:A:ASP:HB3	11	1.42
(2,3767)	1:53:A:VAL:HG21	1:57:A:LEU:HB2	11	1.42
(2,2270)	1:145:A:LEU:HD12	1:144:A:PHE:HD1	17	1.42
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	15	1.42
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	7	1.42
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	12	1.42
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	13	1.42
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	15	1.42
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	17	1.42
(2,1295)	1:51:A:ILE:HD13	1:122:A:LEU:HB2	10	1.42
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	19	1.42
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG23	14	1.41
(2,4586)	1:100:A:GLN:HG3	1:98:A:LEU:HD12	8	1.41
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD13	20	1.41
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	3	1.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4472)	1:77:A:LEU:HD12	1:130:A:ALA:HA	16	1.41
(2,4331)	1:141:A:LEU:HD13	1:81:A:LEU:HB2	5	1.41
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	5	1.41
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	7	1.41
(2,4267)	1:52:A:ARG:HD2	1:66:A:THR:HA	16	1.41
(2,4241)	1:53:A:VAL:HG21	1:31:A:ILE:HG23	6	1.41
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	5	1.41
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	17	1.41
(2,4185)	1:77:A:LEU:HD21	1:138:A:GLU:H	8	1.41
(2,4056)	1:29:A:LEU:HD21	1:129:A:VAL:HG21	15	1.41
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE3	7	1.41
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	17	1.41
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	1	1.41
(2,1908)	1:120:A:GLN:HA	1:120:A:GLN:HE22	8	1.41
(2,1867)	1:98:A:LEU:HD13	1:97:A:PHE:HB3	3	1.41
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	3	1.41
(2,1594)	1:77:A:LEU:HA	1:77:A:LEU:HD21	7	1.41
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD12	10	1.41
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD12	14	1.41
(2,1501)	1:57:A:LEU:HD22	1:136:A:GLN:HB2	19	1.41
(2,4530)	1:33:A:VAL:HG12	1:144:A:PHE:HD1	15	1.4
(2,4467)	1:76:A:TRP:HA	1:77:A:LEU:HB3	1	1.4
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	1	1.4
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	12	1.4
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	13	1.4
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	18	1.4
(2,4056)	1:29:A:LEU:HD21	1:129:A:VAL:HG23	18	1.4
(2,4011)	1:139:A:ARG:HB2	1:141:A:LEU:HD13	7	1.4
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG23	20	1.4
(2,3767)	1:53:A:VAL:HG22	1:31:A:ILE:HB	2	1.4
(2,3695)	1:150:A:ILE:HG21	1:149:A:ILE:HG22	20	1.4
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	4	1.4
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD11	6	1.4
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	2	1.4
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	12	1.4
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	19	1.4
(2,1594)	1:77:A:LEU:HA	1:77:A:LEU:HD22	16	1.4
(2,870)	1:115:A:ILE:HD13	1:36:A:PRO:HB3	19	1.4
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	11	1.4
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	9	1.4
(2,4586)	1:100:A:GLN:HG3	1:98:A:LEU:HD11	17	1.39
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG23	2	1.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG22	5	1.39
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	13	1.39
(2,4331)	1:141:A:LEU:HD12	1:81:A:LEU:HB2	9	1.39
(2,4331)	1:141:A:LEU:HD11	1:81:A:LEU:HB2	16	1.39
(2,4330)	1:141:A:LEU:HD21	1:81:A:LEU:HD21	16	1.39
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	4	1.39
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	16	1.39
(2,4182)	1:136:A:GLN:HG2	1:141:A:LEU:HD13	17	1.39
(2,4111)	1:96:A:ALA:HB1	1:99:A:ARG:HD3	17	1.39
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD13	5	1.39
(2,3786)	1:143:A:MET:HE1	1:149:A:ILE:HG22	7	1.39
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD11	11	1.39
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	18	1.39
(2,2212)	1:77:A:LEU:HD13	1:144:A:PHE:HZ	16	1.39
(2,1323)	1:150:A:ILE:HG21	1:149:A:ILE:HG23	8	1.39
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	6	1.38
(2,4190)	1:77:A:LEU:HD21	1:80:A:GLU:HB2	4	1.38
(2,4185)	1:77:A:LEU:HD22	1:138:A:GLU:H	17	1.38
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	4	1.38
(2,3767)	1:53:A:VAL:HG22	1:57:A:LEU:HB2	13	1.38
(2,3748)	1:0:A:GLY:HA3	1:1:A:THR:HG22	7	1.38
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD12	8	1.38
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB1	20	1.38
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG23	13	1.38
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	9	1.38
(2,1867)	1:98:A:LEU:HD12	1:97:A:PHE:HB3	1	1.38
(2,1867)	1:98:A:LEU:HD13	1:97:A:PHE:HB3	4	1.38
(2,1865)	1:98:A:LEU:HD12	1:94:A:GLY:HA3	6	1.38
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	18	1.38
(2,1501)	1:57:A:LEU:HD23	1:136:A:GLN:HB2	9	1.38
(2,1323)	1:150:A:ILE:HG23	1:149:A:ILE:HG23	2	1.38
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	20	1.38
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG21	1	1.37
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG22	12	1.37
(2,4586)	1:100:A:GLN:HG3	1:98:A:LEU:HD12	14	1.37
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	14	1.37
(2,4334)	1:141:A:LEU:HD21	1:29:A:LEU:HD12	13	1.37
(2,4330)	1:141:A:LEU:HD21	1:81:A:LEU:HD21	9	1.37
(2,4190)	1:77:A:LEU:HD23	1:80:A:GLU:HB2	13	1.37
(2,4056)	1:29:A:LEU:HD21	1:129:A:VAL:HG23	7	1.37
(2,3767)	1:53:A:VAL:HG23	1:57:A:LEU:HB2	20	1.37
(2,1976)	1:157:A:SER:HA	1:158:A:LYS:HG2	9	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	20	1.37
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD12	17	1.37
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD11	19	1.37
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	9	1.37
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	2	1.37
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG23	11	1.36
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	2	1.36
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	13	1.36
(2,4586)	1:100:A:GLN:HG3	1:98:A:LEU:HD13	6	1.36
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD11	11	1.36
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	5	1.36
(2,4530)	1:33:A:VAL:HG12	1:144:A:PHE:HD1	7	1.36
(2,4505)	1:77:A:LEU:HD13	1:144:A:PHE:HA	6	1.36
(2,4467)	1:76:A:TRP:HA	1:80:A:GLU:HB3	13	1.36
(2,4340)	1:144:A:PHE:HA	1:145:A:LEU:HD13	10	1.36
(2,4334)	1:141:A:LEU:HD21	1:29:A:LEU:HD11	8	1.36
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	3	1.36
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	10	1.36
(2,4180)	1:141:A:LEU:HD13	1:154:A:TYR:HE2	18	1.36
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HB2	13	1.36
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	17	1.36
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG12	3	1.36
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD13	5	1.36
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD12	20	1.36
(2,2270)	1:145:A:LEU:HD12	1:144:A:PHE:HD1	3	1.36
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG22	9	1.36
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	7	1.36
(2,1867)	1:98:A:LEU:HD12	1:97:A:PHE:HB3	13	1.36
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	18	1.36
(2,1323)	1:150:A:ILE:HG22	1:149:A:ILE:HG21	9	1.36
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	16	1.36
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	5	1.36
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	16	1.36
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	3	1.35
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	18	1.35
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD11	5	1.35
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	8	1.35
(2,4241)	1:53:A:VAL:HG22	1:31:A:ILE:HG21	13	1.35
(2,4238)	1:31:A:ILE:HG23	1:123:A:GLU:HB3	1	1.35
(2,4215)	1:156:A:PRO:HD3	1:143:A:MET:HE1	19	1.35
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	2	1.35
(2,4190)	1:77:A:LEU:HD22	1:80:A:GLU:HB2	5	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4153)	1:57:A:LEU:HD21	1:24:A:PRO:HB2	4	1.35
(2,4153)	1:57:A:LEU:HD21	1:24:A:PRO:HB2	19	1.35
(2,3991)	1:26:A:SER:HB2	1:57:A:LEU:HD22	5	1.35
(2,3961)	1:109:A:ILE:HD13	1:108:A:GLY:HA2	2	1.35
(2,3961)	1:109:A:ILE:HD13	1:108:A:GLY:HA2	7	1.35
(2,3922)	1:119:A:LYS:HE2	1:33:A:VAL:HG23	18	1.35
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG12	2	1.35
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	5	1.35
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	6	1.35
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	8	1.35
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	16	1.35
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	17	1.35
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	4	1.35
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	4	1.35
(2,1867)	1:98:A:LEU:HD12	1:97:A:PHE:HB3	16	1.35
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	6	1.35
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	8	1.35
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	19	1.35
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG22	20	1.34
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	11	1.34
(2,4550)	1:34:A:SER:HB2	1:52:A:ARG:HD3	16	1.34
(2,4345)	1:145:A:LEU:HD12	1:141:A:LEU:HB3	7	1.34
(2,4334)	1:141:A:LEU:HD21	1:29:A:LEU:HD13	15	1.34
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	2	1.34
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	11	1.34
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	19	1.34
(2,4086)	1:51:A:ILE:HD13	1:73:A:ASP:HB3	14	1.34
(2,4056)	1:29:A:LEU:HD21	1:129:A:VAL:HG23	6	1.34
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	2	1.34
(2,3695)	1:150:A:ILE:HG21	1:149:A:ILE:HG21	19	1.34
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	14	1.34
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	18	1.34
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD13	5	1.34
(2,1613)	1:50:A:GLU:HG2	1:68:A:ARG:HG3	9	1.34
(2,1323)	1:150:A:ILE:HG22	1:149:A:ILE:HG22	5	1.34
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	2	1.34
(2,4467)	1:76:A:TRP:HA	1:80:A:GLU:HB3	4	1.33
(2,4453)	1:31:A:ILE:HG23	1:52:A:ARG:HB3	8	1.33
(2,4365)	1:145:A:LEU:HD21	1:146:A:GLN:HG3	5	1.33
(2,4330)	1:141:A:LEU:HD23	1:81:A:LEU:HD22	6	1.33
(2,4241)	1:53:A:VAL:HG21	1:31:A:ILE:HG21	11	1.33
(2,4241)	1:53:A:VAL:HG23	1:31:A:ILE:HG21	17	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4241)	1:53:A:VAL:HG23	1:31:A:ILE:HG21	19	1.33
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	3	1.33
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	15	1.33
(2,4180)	1:141:A:LEU:HD11	1:154:A:TYR:HE2	3	1.33
(2,4086)	1:51:A:ILE:HD13	1:73:A:ASP:HB3	3	1.33
(2,3706)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	1	1.33
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	15	1.33
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	8	1.33
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	20	1.33
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD23	5	1.33
(2,1867)	1:98:A:LEU:HD11	1:97:A:PHE:HB3	2	1.33
(2,1867)	1:98:A:LEU:HD11	1:97:A:PHE:HB3	17	1.33
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	4	1.33
(2,1613)	1:50:A:GLU:HG2	1:68:A:ARG:HG3	10	1.33
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	17	1.33
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	18	1.33
(2,4611)	1:80:A:GLU:H	1:81:A:LEU:HD12	16	1.32
(2,4467)	1:76:A:TRP:HA	1:80:A:GLU:HB3	20	1.32
(2,4456)	1:52:A:ARG:HG2	1:51:A:ILE:HG21	9	1.32
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	19	1.32
(2,4241)	1:53:A:VAL:HG22	1:31:A:ILE:HG23	3	1.32
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	7	1.32
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	8	1.32
(2,4153)	1:57:A:LEU:HD21	1:24:A:PRO:HB2	11	1.32
(2,4153)	1:57:A:LEU:HD21	1:24:A:PRO:HB2	14	1.32
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	7	1.32
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	15	1.32
(2,4056)	1:29:A:LEU:HD21	1:129:A:VAL:HG23	12	1.32
(2,3922)	1:119:A:LYS:HE2	1:33:A:VAL:HG22	19	1.32
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	14	1.32
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	18	1.32
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	10	1.32
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	14	1.32
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	7	1.32
(2,1501)	1:57:A:LEU:HD22	1:136:A:GLN:HB2	4	1.32
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	19	1.32
(2,4586)	1:100:A:GLN:HG3	1:98:A:LEU:HD13	4	1.31
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	6	1.31
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	4	1.31
(2,4200)	1:160:A:ARG:HB2	1:160:A:ARG:HD2	20	1.31
(2,4153)	1:57:A:LEU:HD22	1:24:A:PRO:HB2	2	1.31
(2,4128)	1:77:A:LEU:HB3	1:150:A:ILE:HD13	16	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4086)	1:51:A:ILE:HD12	1:73:A:ASP:HB3	20	1.31
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG21	14	1.31
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG12	14	1.31
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD12	13	1.31
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB3	16	1.31
(2,2370)	1:145:A:LEU:HD23	1:136:A:GLN:HE22	19	1.31
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG23	10	1.31
(2,1976)	1:157:A:SER:HA	1:158:A:LYS:HG2	19	1.31
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD12	12	1.31
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	7	1.31
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	17	1.31
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	11	1.31
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	16	1.31
(2,1323)	1:150:A:ILE:HG22	1:149:A:ILE:HG23	3	1.31
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD11	7	1.31
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	17	1.31
(2,435)	1:40:A:GLY:HA2	1:45:A:ARG:HB3	14	1.31
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	14	1.3
(2,4530)	1:33:A:VAL:HG12	1:144:A:PHE:HD1	12	1.3
(2,4530)	1:33:A:VAL:HG11	1:144:A:PHE:HD2	18	1.3
(2,4530)	1:33:A:VAL:HG11	1:49:A:TYR:HD1	20	1.3
(2,4453)	1:52:A:ARG:HB3	1:51:A:ILE:HG23	2	1.3
(2,4345)	1:145:A:LEU:HD11	1:141:A:LEU:HB3	12	1.3
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	1	1.3
(2,3961)	1:109:A:ILE:HD11	1:108:A:GLY:HA3	10	1.3
(2,3961)	1:109:A:ILE:HD11	1:108:A:GLY:HA3	12	1.3
(2,3922)	1:119:A:LYS:HE2	1:33:A:VAL:HG22	8	1.3
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG23	15	1.3
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG13	4	1.3
(2,3796)	1:130:A:ALA:HB1	1:128:A:LYS:H	20	1.3
(2,3748)	1:0:A:GLY:HA3	1:1:A:THR:HG23	8	1.3
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	16	1.3
(2,3706)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	19	1.3
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD11	11	1.3
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG21	17	1.3
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD22	7	1.3
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD21	12	1.3
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	5	1.3
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD12	13	1.3
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	1	1.3
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	2	1.3
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	3	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	7	1.3
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	10	1.3
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	11	1.3
(2,257)	1:150:A:ILE:HD13	1:152:A:LYS:HE2	13	1.3
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD13	3	1.29
(2,4345)	1:145:A:LEU:HD11	1:141:A:LEU:HB3	6	1.29
(2,4330)	1:141:A:LEU:HD23	1:59:A:ILE:HG23	19	1.29
(2,4153)	1:57:A:LEU:HD21	1:24:A:PRO:HB2	20	1.29
(2,4128)	1:77:A:LEU:HB3	1:150:A:ILE:HD11	20	1.29
(2,3776)	1:39:A:VAL:HG12	1:46:A:PHE:HZ	7	1.29
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HG21	10	1.29
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	20	1.29
(2,1501)	1:57:A:LEU:HD23	1:136:A:GLN:HB2	5	1.29
(2,1292)	1:51:A:ILE:HD13	1:122:A:LEU:HD21	5	1.29
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	4	1.29
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	5	1.29
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	8	1.29
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	12	1.29
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	13	1.29
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	14	1.29
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	15	1.29
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	16	1.29
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	18	1.29
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	19	1.29
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	20	1.29
(2,257)	1:150:A:ILE:HD12	1:152:A:LYS:HE2	1	1.29
(2,257)	1:150:A:ILE:HD11	1:152:A:LYS:HE2	14	1.29
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	5	1.28
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	10	1.28
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	16	1.28
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	17	1.28
(2,4453)	1:31:A:ILE:HG23	1:52:A:ARG:HB3	15	1.28
(2,4345)	1:145:A:LEU:HD13	1:141:A:LEU:HB3	16	1.28
(2,4334)	1:141:A:LEU:HD21	1:29:A:LEU:HD11	7	1.28
(2,4334)	1:141:A:LEU:HD22	1:29:A:LEU:HD12	14	1.28
(2,4330)	1:141:A:LEU:HD23	1:81:A:LEU:HD21	2	1.28
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	1	1.28
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	3	1.28
(2,4180)	1:141:A:LEU:HD13	1:154:A:TYR:HE2	4	1.28
(2,4153)	1:57:A:LEU:HD21	1:24:A:PRO:HB2	13	1.28
(2,4153)	1:57:A:LEU:HD21	1:24:A:PRO:HB2	18	1.28
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HB2	10	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4128)	1:77:A:LEU:HB3	1:150:A:ILE:HD12	9	1.28
(2,4086)	1:51:A:ILE:HD11	1:73:A:ASP:HB3	15	1.28
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	1	1.28
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	10	1.28
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG22	12	1.28
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	6	1.28
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	13	1.28
(2,2348)	1:53:A:VAL:HG13	1:126:A:ILE:HG21	9	1.28
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG22	11	1.28
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD12	10	1.28
(2,1613)	1:50:A:GLU:HG2	1:68:A:ARG:HG3	15	1.28
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	6	1.28
(2,971)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	9	1.28
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	19	1.28
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG23	7	1.27
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	8	1.27
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	1	1.27
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	15	1.27
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG21	5	1.27
(2,4527)	1:98:A:LEU:HD21	1:100:A:GLN:HG2	4	1.27
(2,4527)	1:98:A:LEU:HD22	1:100:A:GLN:HG2	6	1.27
(2,4505)	1:77:A:LEU:HD11	1:144:A:PHE:HA	17	1.27
(2,4453)	1:52:A:ARG:HB3	1:51:A:ILE:HG22	5	1.27
(2,4334)	1:141:A:LEU:HD23	1:29:A:LEU:HD12	12	1.27
(2,4334)	1:141:A:LEU:HD21	1:29:A:LEU:HD13	18	1.27
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	4	1.27
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	12	1.27
(2,4185)	1:77:A:LEU:HD21	1:138:A:GLU:H	13	1.27
(2,3961)	1:109:A:ILE:HD13	1:108:A:GLY:HA2	5	1.27
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG21	17	1.27
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	5	1.27
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	14	1.27
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	13	1.27
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	17	1.27
(2,1867)	1:98:A:LEU:HD12	1:97:A:PHE:HB3	8	1.27
(2,1867)	1:98:A:LEU:HD12	1:97:A:PHE:HB3	14	1.27
(2,1867)	1:98:A:LEU:HD13	1:97:A:PHE:HB3	18	1.27
(2,1867)	1:98:A:LEU:HD12	1:97:A:PHE:HB3	19	1.27
(2,1292)	1:51:A:ILE:HD13	1:122:A:LEU:HD23	16	1.27
(2,870)	1:115:A:ILE:HD13	1:36:A:PRO:HB3	14	1.27
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	5	1.27
(2,4984)	1:147:A:ASP:H	1:148:A:GLU:HB2	16	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG23	3	1.26
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG22	4	1.26
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	4	1.26
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	6	1.26
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	20	1.26
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD13	18	1.26
(2,4530)	1:33:A:VAL:HG13	1:49:A:TYR:HD2	6	1.26
(2,4330)	1:141:A:LEU:HD23	1:59:A:ILE:HG22	1	1.26
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	14	1.26
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	19	1.26
(2,4238)	1:31:A:ILE:HG21	1:123:A:GLU:HB3	3	1.26
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	9	1.26
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	18	1.26
(2,4215)	1:156:A:PRO:HD3	1:143:A:MET:HE2	7	1.26
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	5	1.26
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	7	1.26
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	17	1.26
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	20	1.26
(2,4185)	1:77:A:LEU:HD21	1:138:A:GLU:H	6	1.26
(2,4153)	1:57:A:LEU:HD23	1:24:A:PRO:HB2	12	1.26
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	18	1.26
(2,3961)	1:109:A:ILE:HD12	1:108:A:GLY:HA3	4	1.26
(2,3961)	1:109:A:ILE:HD13	1:108:A:GLY:HA3	16	1.26
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG12	1	1.26
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG12	13	1.26
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	9	1.26
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	12	1.26
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	16	1.26
(2,3748)	1:0:A:GLY:HA2	1:1:A:THR:HG21	2	1.26
(2,3706)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	11	1.26
(2,3695)	1:150:A:ILE:HG22	1:149:A:ILE:HG22	15	1.26
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	12	1.26
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG21	20	1.26
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	16	1.26
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD21	16	1.26
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD22	18	1.26
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	11	1.26
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	10	1.26
(2,4984)	1:147:A:ASP:H	1:148:A:GLU:HB2	4	1.25
(2,4984)	1:147:A:ASP:H	1:148:A:GLU:HB2	11	1.25
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	2	1.25
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG23	10	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG22	13	1.25
(2,4527)	1:98:A:LEU:HD22	1:100:A:GLN:HG2	14	1.25
(2,4330)	1:141:A:LEU:HD23	1:59:A:ILE:HG22	10	1.25
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	9	1.25
(2,4215)	1:156:A:PRO:HD3	1:143:A:MET:HE2	15	1.25
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	2	1.25
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	6	1.25
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	10	1.25
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	13	1.25
(2,3961)	1:109:A:ILE:HD12	1:108:A:GLY:HA3	3	1.25
(2,3961)	1:109:A:ILE:HD12	1:108:A:GLY:HA3	18	1.25
(2,3961)	1:109:A:ILE:HD13	1:115:A:ILE:HA	20	1.25
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG11	11	1.25
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG11	16	1.25
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG12	19	1.25
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	2	1.25
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	3	1.25
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	8	1.25
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	17	1.25
(2,3827)	1:61:A:LYS:HE2	1:61:A:LYS:HG2	20	1.25
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG23	15	1.25
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	1	1.25
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD13	7	1.25
(2,1865)	1:98:A:LEU:HD11	1:94:A:GLY:HA3	14	1.25
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	9	1.25
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	7	1.25
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	8	1.24
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG22	16	1.24
(2,4770)	1:10:A:ARG:H	1:11:A:LEU:HB3	12	1.24
(2,4710)	1:60:A:PHE:H	1:58:A:PRO:HB3	10	1.24
(2,4648)	1:150:A:ILE:HD13	1:145:A:LEU:H	2	1.24
(2,4611)	1:80:A:GLU:H	1:81:A:LEU:HD13	7	1.24
(2,4561)	1:122:A:LEU:HB3	1:118:A:ARG:HG3	20	1.24
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	4	1.24
(2,4527)	1:98:A:LEU:HD21	1:100:A:GLN:HG2	15	1.24
(2,4330)	1:141:A:LEU:HD22	1:81:A:LEU:HD22	13	1.24
(2,4238)	1:31:A:ILE:HG21	1:123:A:GLU:HB3	8	1.24
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	11	1.24
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	14	1.24
(2,4153)	1:57:A:LEU:HD23	1:24:A:PRO:HB2	1	1.24
(2,4151)	1:57:A:LEU:HD21	1:131:A:GLY:HA3	2	1.24
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	19	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3961)	1:109:A:ILE:HD13	1:108:A:GLY:HA3	8	1.24
(2,3961)	1:109:A:ILE:HD13	1:108:A:GLY:HA2	14	1.24
(2,3943)	1:115:A:ILE:HD11	1:112:A:ASP:HB2	15	1.24
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG21	6	1.24
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG13	5	1.24
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG11	10	1.24
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE2	18	1.24
(2,3761)	1:53:A:VAL:HG22	1:28:A:PHE:HZ	2	1.24
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	20	1.24
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD21	10	1.24
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD21	10	1.24
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD22	13	1.24
(2,1295)	1:51:A:ILE:HD11	1:122:A:LEU:HB2	15	1.24
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	7	1.24
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	3	1.24
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	16	1.24
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	7	1.23
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	12	1.23
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG21	12	1.23
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	2	1.23
(2,4537)	1:100:A:GLN:HG2	1:101:A:LEU:HD23	7	1.23
(2,4527)	1:98:A:LEU:HD23	1:100:A:GLN:HG2	9	1.23
(2,4527)	1:98:A:LEU:HD21	1:100:A:GLN:HG2	20	1.23
(2,4505)	1:77:A:LEU:HD11	1:144:A:PHE:HA	15	1.23
(2,4365)	1:145:A:LEU:HD21	1:146:A:GLN:HG3	13	1.23
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	8	1.23
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	18	1.23
(2,4185)	1:77:A:LEU:HD23	1:138:A:GLU:H	11	1.23
(2,4086)	1:51:A:ILE:HD11	1:73:A:ASP:HB3	6	1.23
(2,3761)	1:53:A:VAL:HG21	1:28:A:PHE:HZ	12	1.23
(2,3748)	1:0:A:GLY:HA3	1:1:A:THR:HG21	12	1.23
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD13	19	1.23
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	17	1.23
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	3	1.23
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG21	1	1.23
(2,2348)	1:53:A:VAL:HG11	1:126:A:ILE:HG21	4	1.23
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG21	2	1.23
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	19	1.23
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD12	18	1.23
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD23	6	1.23
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD21	9	1.23
(2,1865)	1:98:A:LEU:HD13	1:94:A:GLY:HA3	12	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	14	1.23
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG11	10	1.23
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	7	1.23
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	4	1.23
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	12	1.23
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	14	1.22
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG23	18	1.22
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG22	9	1.22
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG21	17	1.22
(2,4648)	1:150:A:ILE:HD11	1:145:A:LEU:H	5	1.22
(2,4505)	1:77:A:LEU:HD13	1:144:A:PHE:HA	3	1.22
(2,4472)	1:77:A:LEU:HD13	1:74:A:PHE:HA	7	1.22
(2,4330)	1:141:A:LEU:HD23	1:59:A:ILE:HG22	12	1.22
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	15	1.22
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	9	1.22
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	12	1.22
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	20	1.22
(2,4241)	1:53:A:VAL:HG22	1:31:A:ILE:HG21	10	1.22
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	5	1.22
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	1	1.22
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	15	1.22
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	16	1.22
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	19	1.22
(2,4153)	1:57:A:LEU:HD21	1:24:A:PRO:HB2	7	1.22
(2,4135)	1:137:A:ASN:HB3	1:158:A:LYS:HG3	14	1.22
(2,3961)	1:109:A:ILE:HD12	1:108:A:GLY:HA3	11	1.22
(2,3961)	1:109:A:ILE:HD13	1:108:A:GLY:HA2	19	1.22
(2,3761)	1:53:A:VAL:HG22	1:28:A:PHE:HZ	16	1.22
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD12	13	1.22
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD11	3	1.22
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG21	4	1.22
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD11	14	1.22
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD23	17	1.22
(2,1867)	1:98:A:LEU:HD11	1:97:A:PHE:HB3	5	1.22
(2,1867)	1:98:A:LEU:HD11	1:97:A:PHE:HB3	11	1.22
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	10	1.22
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD11	15	1.22
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD11	16	1.22
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	17	1.22
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	12	1.22
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	20	1.22
(2,4984)	1:147:A:ASP:H	1:143:A:MET:HB2	18	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	4	1.21
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	11	1.21
(2,4453)	1:31:A:ILE:HG21	1:52:A:ARG:HB3	17	1.21
(2,4330)	1:141:A:LEU:HD22	1:59:A:ILE:HG23	5	1.21
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	13	1.21
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	18	1.21
(2,4185)	1:77:A:LEU:HD21	1:138:A:GLU:H	20	1.21
(2,4180)	1:141:A:LEU:HD11	1:154:A:TYR:HE2	9	1.21
(2,4153)	1:57:A:LEU:HD22	1:24:A:PRO:HB2	3	1.21
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	12	1.21
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD22	16	1.21
(2,3961)	1:109:A:ILE:HD12	1:108:A:GLY:HA2	1	1.21
(2,3941)	1:115:A:ILE:HD13	1:114:A:PHE:HB2	16	1.21
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG22	16	1.21
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG11	8	1.21
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	15	1.21
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG22	8	1.21
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG22	18	1.21
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	5	1.21
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD12	2	1.21
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD23	2	1.21
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD21	3	1.21
(2,1867)	1:98:A:LEU:HD13	1:97:A:PHE:HB3	6	1.21
(2,1865)	1:98:A:LEU:HD13	1:94:A:GLY:HA3	7	1.21
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	8	1.21
(2,1068)	1:159:A:ILE:HD13	1:145:A:LEU:HD21	3	1.21
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	19	1.21
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	9	1.21
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	15	1.21
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	15	1.2
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	19	1.2
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG21	14	1.2
(2,4527)	1:98:A:LEU:HD23	1:100:A:GLN:HG2	17	1.2
(2,4330)	1:141:A:LEU:HD22	1:59:A:ILE:HG23	17	1.2
(2,4238)	1:31:A:ILE:HG21	1:123:A:GLU:HB3	6	1.2
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	4	1.2
(2,4180)	1:141:A:LEU:HD13	1:154:A:TYR:HE2	16	1.2
(2,4151)	1:57:A:LEU:HD21	1:131:A:GLY:HA3	3	1.2
(2,4086)	1:51:A:ILE:HD11	1:73:A:ASP:HB3	4	1.2
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG11	15	1.2
(2,3803)	1:129:A:VAL:HG21	1:125:A:PHE:HD2	12	1.2
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	7	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3709)	1:92:A:LEU:HD12	1:74:A:PHE:HA	12	1.2
(2,3709)	1:92:A:LEU:HD13	1:74:A:PHE:HA	17	1.2
(2,3706)	1:92:A:LEU:HD13	1:125:A:PHE:HE1	17	1.2
(2,3706)	1:92:A:LEU:HD13	1:125:A:PHE:HE1	18	1.2
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	7	1.2
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	13	1.2
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD13	2	1.2
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD11	13	1.2
(2,2370)	1:145:A:LEU:HD23	1:136:A:GLN:HE22	8	1.2
(2,1976)	1:157:A:SER:HA	1:158:A:LYS:HG2	5	1.2
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	3	1.2
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	12	1.2
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD13	11	1.2
(2,1867)	1:98:A:LEU:HD13	1:97:A:PHE:HB3	10	1.2
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	1	1.2
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	5	1.2
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	17	1.2
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	6	1.2
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	10	1.2
(2,4984)	1:147:A:ASP:H	1:148:A:GLU:HB2	2	1.19
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	3	1.19
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	9	1.19
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	10	1.19
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	7	1.19
(2,4530)	1:33:A:VAL:HG12	1:144:A:PHE:HD2	8	1.19
(2,4467)	1:76:A:TRP:HA	1:80:A:GLU:HB3	12	1.19
(2,4453)	1:31:A:ILE:HG23	1:52:A:ARG:HB3	3	1.19
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	2	1.19
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	13	1.19
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	3	1.19
(2,4211)	1:54:A:LYS:HE2	1:54:A:LYS:HG2	9	1.19
(2,4128)	1:77:A:LEU:HB3	1:150:A:ILE:HD12	15	1.19
(2,4111)	1:96:A:ALA:HB1	1:99:A:ARG:HD3	14	1.19
(2,4086)	1:51:A:ILE:HD13	1:73:A:ASP:HB3	16	1.19
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG22	2	1.19
(2,3847)	1:159:A:ILE:HG22	1:136:A:GLN:HB2	19	1.19
(2,3786)	1:143:A:MET:HE3	1:149:A:ILE:HG22	20	1.19
(2,3709)	1:92:A:LEU:HD11	1:74:A:PHE:HA	5	1.19
(2,3695)	1:150:A:ILE:HG22	1:149:A:ILE:HG22	7	1.19
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	7	1.19
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD12	4	1.19
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	1	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	6	1.19
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD12	4	1.19
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD12	20	1.19
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	7	1.19
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	4	1.19
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	18	1.19
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	6	1.19
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	12	1.19
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	8	1.19
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	15	1.19
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	1	1.18
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	5	1.18
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	13	1.18
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	15	1.18
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG21	18	1.18
(2,4505)	1:77:A:LEU:HD13	1:144:A:PHE:HA	12	1.18
(2,4426)	1:18:A:LEU:HA	1:19:A:ASN:HB2	7	1.18
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	8	1.18
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	9	1.18
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	12	1.18
(2,4215)	1:156:A:PRO:HD3	1:143:A:MET:HE1	12	1.18
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HB2	20	1.18
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	20	1.18
(2,4111)	1:96:A:ALA:HB1	1:99:A:ARG:HD3	2	1.18
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG21	20	1.18
(2,3961)	1:109:A:ILE:HD12	1:108:A:GLY:HA3	15	1.18
(2,3941)	1:115:A:ILE:HD11	1:114:A:PHE:HB2	14	1.18
(2,3941)	1:115:A:ILE:HD11	1:114:A:PHE:HB2	19	1.18
(2,3776)	1:39:A:VAL:HG11	1:46:A:PHE:HZ	15	1.18
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD13	17	1.18
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	6	1.18
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB2	15	1.18
(2,2348)	1:53:A:VAL:HG11	1:126:A:ILE:HG21	15	1.18
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG23	12	1.18
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	2	1.18
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	4	1.18
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD12	16	1.18
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	9	1.18
(2,1867)	1:98:A:LEU:HD11	1:97:A:PHE:HB3	12	1.18
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	3	1.18
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	4	1.18
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	15	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	20	1.18
(2,1372)	1:21:A:ALA:HB2	1:22:A:TYR:HE1	13	1.18
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	18	1.18
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	13	1.18
(2,257)	1:150:A:ILE:HD13	1:152:A:LYS:HE2	4	1.18
(2,193)	1:159:A:ILE:HA	1:160:A:ARG:HD3	13	1.18
(2,4984)	1:147:A:ASP:H	1:148:A:GLU:HB2	13	1.17
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD1	19	1.17
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	16	1.17
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG23	3	1.17
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG21	6	1.17
(2,4770)	1:10:A:ARG:H	1:11:A:LEU:HB3	6	1.17
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	2	1.17
(2,4527)	1:98:A:LEU:HD21	1:100:A:GLN:HG2	12	1.17
(2,4334)	1:141:A:LEU:HD22	1:29:A:LEU:HD13	5	1.17
(2,4334)	1:129:A:VAL:HG11	1:141:A:LEU:HD21	6	1.17
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	3	1.17
(2,4238)	1:31:A:ILE:HG23	1:123:A:GLU:HB3	20	1.17
(2,4190)	1:77:A:LEU:HD23	1:80:A:GLU:HB2	20	1.17
(2,4180)	1:141:A:LEU:HD13	1:154:A:TYR:HE2	2	1.17
(2,4081)	1:115:A:ILE:HD13	1:110:A:PHE:HE2	5	1.17
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG22	5	1.17
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	6	1.17
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	5	1.17
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD23	4	1.17
(2,1865)	1:98:A:LEU:HD11	1:94:A:GLY:HA3	1	1.17
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	14	1.17
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	16	1.17
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	14	1.17
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	6	1.17
(2,1136)	1:59:A:ILE:HD13	1:136:A:GLN:HB2	9	1.17
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG23	5	1.17
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	2	1.17
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	11	1.17
(2,4984)	1:147:A:ASP:H	1:148:A:GLU:HB2	1	1.16
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG23	18	1.16
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG22	15	1.16
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	8	1.16
(2,4527)	1:98:A:LEU:HD23	1:100:A:GLN:HG2	11	1.16
(2,4334)	1:141:A:LEU:HD23	1:29:A:LEU:HD13	10	1.16
(2,4241)	1:53:A:VAL:HG23	1:31:A:ILE:HG21	7	1.16
(2,4241)	1:53:A:VAL:HG23	1:31:A:ILE:HG22	20	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	11	1.16
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	11	1.16
(2,4057)	1:29:A:LEU:HD23	1:27:A:ASN:HB3	18	1.16
(2,4049)	1:29:A:LEU:HD13	1:54:A:LYS:HB3	9	1.16
(2,3941)	1:115:A:ILE:HD13	1:114:A:PHE:HB2	6	1.16
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG21	11	1.16
(2,3761)	1:53:A:VAL:HG22	1:28:A:PHE:HZ	14	1.16
(2,3761)	1:53:A:VAL:HG23	1:28:A:PHE:HZ	18	1.16
(2,3706)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	16	1.16
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	12	1.16
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	17	1.16
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD13	11	1.16
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	2	1.16
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	13	1.16
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD11	3	1.16
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD11	8	1.16
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD11	15	1.16
(2,1867)	1:98:A:LEU:HD13	1:97:A:PHE:HB3	20	1.16
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	6	1.16
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	17	1.16
(2,1295)	1:51:A:ILE:HD13	1:122:A:LEU:HB2	14	1.16
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	10	1.16
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	9	1.16
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	18	1.16
(2,375)	1:89:A:VAL:HG22	1:78:A:ARG:HG3	1	1.16
(2,4926)	1:137:A:ASN:HD22	1:159:A:ILE:HG22	2	1.15
(2,4888)	1:120:A:GLN:HE22	1:116:A:GLU:HA	18	1.15
(2,4883)	1:120:A:GLN:HE22	1:116:A:GLU:HB2	5	1.15
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	9	1.15
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	10	1.15
(2,4453)	1:31:A:ILE:HG22	1:52:A:ARG:HB3	1	1.15
(2,4453)	1:52:A:ARG:HB3	1:51:A:ILE:HG21	9	1.15
(2,4453)	1:31:A:ILE:HG21	1:52:A:ARG:HB3	13	1.15
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	17	1.15
(2,4151)	1:57:A:LEU:HD22	1:131:A:GLY:HA3	10	1.15
(2,4057)	1:29:A:LEU:HD21	1:27:A:ASN:HB3	13	1.15
(2,4056)	1:29:A:LEU:HD22	1:129:A:VAL:HG22	16	1.15
(2,4051)	1:29:A:LEU:HD22	1:53:A:VAL:HB	5	1.15
(2,4049)	1:29:A:LEU:HD11	1:54:A:LYS:HB3	12	1.15
(2,3761)	1:53:A:VAL:HG23	1:28:A:PHE:HZ	3	1.15
(2,3761)	1:53:A:VAL:HG21	1:28:A:PHE:HZ	5	1.15
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	15	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	15	1.15
(2,2348)	1:53:A:VAL:HG13	1:126:A:ILE:HG21	8	1.15
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG23	1	1.15
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	11	1.15
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	13	1.15
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	18	1.15
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	2	1.15
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	2	1.15
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	7	1.15
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	9	1.15
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	12	1.15
(2,1323)	1:150:A:ILE:HG21	1:149:A:ILE:HG22	20	1.15
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	4	1.15
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	1	1.14
(2,4238)	1:31:A:ILE:HG21	1:123:A:GLU:HB3	15	1.14
(2,4180)	1:141:A:LEU:HD12	1:154:A:TYR:HE2	12	1.14
(2,4151)	1:57:A:LEU:HD23	1:136:A:GLN:HA	9	1.14
(2,4049)	1:29:A:LEU:HD12	1:30:A:GLU:HB3	10	1.14
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	17	1.14
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	3	1.14
(2,3781)	1:122:A:LEU:HD11	1:125:A:PHE:H	15	1.14
(2,3761)	1:53:A:VAL:HG22	1:28:A:PHE:HZ	8	1.14
(2,3754)	1:145:A:LEU:HA	1:145:A:LEU:HD13	10	1.14
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD13	8	1.14
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	6	1.14
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD23	20	1.14
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD22	11	1.14
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	19	1.14
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	16	1.14
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	8	1.14
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	11	1.14
(2,1372)	1:21:A:ALA:HB1	1:22:A:TYR:HE1	6	1.14
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE1	18	1.14
(2,1068)	1:159:A:ILE:HD13	1:145:A:LEU:HD22	5	1.14
(2,1068)	1:159:A:ILE:HD11	1:145:A:LEU:HD22	13	1.14
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	20	1.14
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	3	1.14
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	17	1.14
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	17	1.14
(2,15)	1:32:A:ASP:HB2	1:52:A:ARG:HB3	20	1.14
(2,4984)	1:147:A:ASP:H	1:148:A:GLU:HB2	14	1.13
(2,4973)	1:137:A:ASN:HD21	1:159:A:ILE:HG23	14	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	6	1.13
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG22	1	1.13
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	4	1.13
(2,4527)	1:98:A:LEU:HD23	1:100:A:GLN:HG2	18	1.13
(2,4505)	1:77:A:LEU:HD11	1:144:A:PHE:HA	9	1.13
(2,4467)	1:76:A:TRP:HA	1:80:A:GLU:HB3	18	1.13
(2,4460)	1:61:A:LYS:HB2	1:61:A:LYS:HE3	1	1.13
(2,4453)	1:31:A:ILE:HG23	1:52:A:ARG:HB3	6	1.13
(2,4330)	1:141:A:LEU:HD21	1:59:A:ILE:HG22	18	1.13
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	20	1.13
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	14	1.13
(2,4241)	1:53:A:VAL:HG23	1:31:A:ILE:HG22	1	1.13
(2,4241)	1:53:A:VAL:HG23	1:31:A:ILE:HG21	5	1.13
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD11	8	1.13
(2,4111)	1:96:A:ALA:HB2	1:99:A:ARG:HD3	4	1.13
(2,4051)	1:29:A:LEU:HD22	1:53:A:VAL:HB	8	1.13
(2,4049)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	14	1.13
(2,4049)	1:29:A:LEU:HD12	1:30:A:GLU:HB3	15	1.13
(2,4049)	1:29:A:LEU:HD12	1:54:A:LYS:HB3	18	1.13
(2,3941)	1:115:A:ILE:HD11	1:114:A:PHE:HB2	3	1.13
(2,3941)	1:115:A:ILE:HD12	1:114:A:PHE:HB2	4	1.13
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG21	7	1.13
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	13	1.13
(2,3822)	1:158:A:LYS:HG3	1:158:A:LYS:HE3	5	1.13
(2,3803)	1:129:A:VAL:HG21	1:125:A:PHE:HD2	18	1.13
(2,3796)	1:130:A:ALA:HB1	1:128:A:LYS:H	9	1.13
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	11	1.13
(2,2288)	1:162:A:ALA:HB3	1:161:A:HIS:HB2	12	1.13
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG21	5	1.13
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD21	1	1.13
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD22	20	1.13
(2,1867)	1:98:A:LEU:HD11	1:97:A:PHE:HB3	15	1.13
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	8	1.13
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	8	1.13
(2,1592)	1:77:A:LEU:HD22	1:141:A:LEU:HA	7	1.13
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	15	1.13
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD12	3	1.13
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	1	1.13
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	3	1.13
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	10	1.13
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	15	1.13
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	5	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD11	3	1.13
(2,1068)	1:159:A:ILE:HD11	1:145:A:LEU:HD21	17	1.13
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD21	13	1.13
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	5	1.13
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	1	1.13
(2,4903)	1:124:A:GLN:HE22	1:119:A:LYS:HD3	19	1.12
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD21	4	1.12
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	3	1.12
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	2	1.12
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD3	20	1.12
(2,4505)	1:77:A:LEU:HD13	1:144:A:PHE:HA	13	1.12
(2,4505)	1:77:A:LEU:HD11	1:144:A:PHE:HA	18	1.12
(2,4334)	1:141:A:LEU:HD22	1:29:A:LEU:HD12	4	1.12
(2,4330)	1:141:A:LEU:HD21	1:59:A:ILE:HG23	11	1.12
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	2	1.12
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	12	1.12
(2,4185)	1:77:A:LEU:HD23	1:138:A:GLU:H	14	1.12
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	2	1.12
(2,4111)	1:96:A:ALA:HB3	1:99:A:ARG:HD3	11	1.12
(2,4091)	1:31:A:ILE:HD11	1:126:A:ILE:HA	9	1.12
(2,4049)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	4	1.12
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG22	7	1.12
(2,3941)	1:115:A:ILE:HD13	1:114:A:PHE:HB2	20	1.12
(2,3803)	1:129:A:VAL:HG23	1:125:A:PHE:HD2	19	1.12
(2,3761)	1:53:A:VAL:HG21	1:28:A:PHE:HZ	15	1.12
(2,3761)	1:53:A:VAL:HG21	1:28:A:PHE:HZ	20	1.12
(2,3758)	1:47:A:THR:HG21	1:36:A:PRO:HG2	20	1.12
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	17	1.12
(2,3024)	1:11:A:LEU:HD12	1:10:A:ARG:H	8	1.12
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	13	1.12
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB1	8	1.12
(2,2151)	1:122:A:LEU:HD23	1:33:A:VAL:HG11	20	1.12
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD13	9	1.12
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	2	1.12
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	20	1.12
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	6	1.12
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	10	1.12
(2,1517)	1:29:A:LEU:HB3	1:57:A:LEU:HD12	9	1.12
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	17	1.12
(2,1295)	1:51:A:ILE:HD13	1:122:A:LEU:HB2	3	1.12
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	2	1.12
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	3	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	11	1.12
(2,430)	1:23:A:GLY:HA3	1:24:A:PRO:HD3	14	1.12
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	17	1.11
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	4	1.11
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG22	2	1.11
(2,4453)	1:31:A:ILE:HG21	1:52:A:ARG:HB3	12	1.11
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	17	1.11
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	4	1.11
(2,4065)	1:81:A:LEU:HD12	1:135:A:ALA:H	13	1.11
(2,4057)	1:29:A:LEU:HD22	1:27:A:ASN:HB3	6	1.11
(2,4049)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	3	1.11
(2,3991)	1:26:A:SER:HB2	1:57:A:LEU:HD21	2	1.11
(2,3961)	1:109:A:ILE:HD13	1:108:A:GLY:HA3	13	1.11
(2,3941)	1:115:A:ILE:HD11	1:114:A:PHE:HB2	7	1.11
(2,3941)	1:115:A:ILE:HD12	1:114:A:PHE:HB2	10	1.11
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG23	10	1.11
(2,3810)	1:129:A:VAL:HG13	1:128:A:LYS:HD2	6	1.11
(2,3803)	1:129:A:VAL:HG21	1:125:A:PHE:HD2	7	1.11
(2,3786)	1:143:A:MET:HE3	1:149:A:ILE:HD11	8	1.11
(2,3786)	1:143:A:MET:HE3	1:141:A:LEU:HD11	17	1.11
(2,3761)	1:53:A:VAL:HG23	1:28:A:PHE:HZ	10	1.11
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	13	1.11
(2,3706)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	3	1.11
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	9	1.11
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	17	1.11
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	19	1.11
(2,3027)	1:10:A:ARG:HB2	1:11:A:LEU:H	3	1.11
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG22	2	1.11
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	10	1.11
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	12	1.11
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	13	1.11
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	13	1.11
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	3	1.11
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD12	14	1.11
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	11	1.11
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	1	1.11
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	13	1.11
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	16	1.11
(2,4710)	1:60:A:PHE:H	1:58:A:PRO:HB3	14	1.1
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	12	1.1
(2,4562)	1:83:A:ARG:HD2	1:84:A:GLU:HG3	13	1.1
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	18	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4527)	1:98:A:LEU:HD23	1:100:A:GLN:HG2	8	1.1
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD3	4	1.1
(2,4453)	1:31:A:ILE:HG21	1:52:A:ARG:HB3	19	1.1
(2,4330)	1:141:A:LEU:HD23	1:59:A:ILE:HG22	3	1.1
(2,4241)	1:53:A:VAL:HG22	1:31:A:ILE:HG21	4	1.1
(2,4241)	1:53:A:VAL:HG23	1:31:A:ILE:HG21	12	1.1
(2,4153)	1:57:A:LEU:HD23	1:24:A:PRO:HB2	6	1.1
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD13	5	1.1
(2,4088)	1:31:A:ILE:HD13	1:123:A:GLU:HB2	10	1.1
(2,4049)	1:29:A:LEU:HD13	1:54:A:LYS:HB3	7	1.1
(2,4049)	1:29:A:LEU:HD13	1:54:A:LYS:HB3	8	1.1
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG22	10	1.1
(2,3961)	1:109:A:ILE:HD11	1:108:A:GLY:HA2	17	1.1
(2,3941)	1:115:A:ILE:HD12	1:114:A:PHE:HB2	1	1.1
(2,3941)	1:115:A:ILE:HD13	1:114:A:PHE:HB2	11	1.1
(2,3941)	1:115:A:ILE:HD13	1:114:A:PHE:HB2	12	1.1
(2,3761)	1:53:A:VAL:HG22	1:28:A:PHE:HZ	4	1.1
(2,3761)	1:53:A:VAL:HG21	1:28:A:PHE:HZ	19	1.1
(2,3709)	1:92:A:LEU:HD12	1:74:A:PHE:HA	2	1.1
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	1	1.1
(2,3251)	1:62:A:LEU:HB3	1:64:A:GLU:H	11	1.1
(2,3027)	1:10:A:ARG:HB2	1:11:A:LEU:H	13	1.1
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	4	1.1
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG21	14	1.1
(2,2151)	1:122:A:LEU:HD21	1:33:A:VAL:HG11	5	1.1
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG21	14	1.1
(2,1950)	1:145:A:LEU:HD23	1:145:A:LEU:H	20	1.1
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD12	1	1.1
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD13	13	1.1
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	15	1.1
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	8	1.1
(2,1136)	1:59:A:ILE:HD13	1:136:A:GLN:HB2	1	1.1
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	7	1.1
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	14	1.1
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	15	1.1
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	12	1.1
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	14	1.1
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	19	1.1
(2,257)	1:150:A:ILE:HD11	1:152:A:LYS:HE2	11	1.1
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	7	1.09
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG23	4	1.09
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG23	7	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG23	8	1.09
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD22	5	1.09
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	16	1.09
(2,4556)	1:58:A:PRO:HD2	1:136:A:GLN:HA	17	1.09
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD23	3	1.09
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD23	20	1.09
(2,4505)	1:77:A:LEU:HD12	1:144:A:PHE:HA	19	1.09
(2,4441)	1:33:A:VAL:HG12	1:122:A:LEU:H	4	1.09
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD13	19	1.09
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	4	1.09
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	7	1.09
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	16	1.09
(2,4241)	1:53:A:VAL:HG21	1:31:A:ILE:HG21	9	1.09
(2,4049)	1:29:A:LEU:HD11	1:54:A:LYS:HB3	2	1.09
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	11	1.09
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	13	1.09
(2,3941)	1:115:A:ILE:HD11	1:114:A:PHE:HB2	13	1.09
(2,3913)	1:119:A:LYS:HE2	1:116:A:GLU:HG2	4	1.09
(2,3776)	1:39:A:VAL:HG11	1:46:A:PHE:HZ	5	1.09
(2,3776)	1:39:A:VAL:HG11	1:46:A:PHE:HZ	20	1.09
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG2	20	1.09
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	11	1.09
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	18	1.09
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	3	1.09
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	6	1.09
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	16	1.09
(2,1950)	1:145:A:LEU:HD23	1:145:A:LEU:H	8	1.09
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD13	17	1.09
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD21	19	1.09
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	14	1.09
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	5	1.09
(2,1323)	1:150:A:ILE:HG21	1:149:A:ILE:HG21	19	1.09
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	1	1.09
(2,4973)	1:59:A:ILE:HD11	1:137:A:ASN:HD21	9	1.08
(2,4883)	1:120:A:GLN:HE22	1:116:A:GLU:HB2	13	1.08
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG21	13	1.08
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	9	1.08
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD21	17	1.08
(2,4550)	1:34:A:SER:HB2	1:52:A:ARG:HD2	6	1.08
(2,4505)	1:77:A:LEU:HD12	1:144:A:PHE:HA	4	1.08
(2,4453)	1:31:A:ILE:HG21	1:52:A:ARG:HB3	7	1.08
(2,4453)	1:31:A:ILE:HG22	1:52:A:ARG:HB3	16	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4334)	1:141:A:LEU:HD22	1:29:A:LEU:HD12	2	1.08
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	11	1.08
(2,4267)	1:52:A:ARG:HD2	1:33:A:VAL:HA	6	1.08
(2,4215)	1:156:A:PRO:HD3	1:143:A:MET:HE1	16	1.08
(2,4185)	1:77:A:LEU:HD22	1:138:A:GLU:H	15	1.08
(2,4049)	1:29:A:LEU:HD12	1:54:A:LYS:HB3	5	1.08
(2,4049)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	16	1.08
(2,3961)	1:109:A:ILE:HD12	1:108:A:GLY:HA3	6	1.08
(2,3803)	1:129:A:VAL:HG22	1:125:A:PHE:HD2	4	1.08
(2,3796)	1:130:A:ALA:HB2	1:128:A:LYS:H	11	1.08
(2,3761)	1:53:A:VAL:HG22	1:28:A:PHE:HZ	9	1.08
(2,3758)	1:47:A:THR:HG22	1:37:A:GLN:HG3	9	1.08
(2,3709)	1:92:A:LEU:HD11	1:79:A:SER:HB3	1	1.08
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	8	1.08
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	9	1.08
(2,2370)	1:145:A:LEU:HD21	1:136:A:GLN:HE22	14	1.08
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD2	9	1.08
(2,2212)	1:77:A:LEU:HD13	1:144:A:PHE:HZ	7	1.08
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG21	11	1.08
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG21	6	1.08
(2,1988)	1:77:A:LEU:HD11	1:78:A:ARG:H	16	1.08
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD11	6	1.08
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	2	1.08
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG21	1	1.08
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG21	16	1.08
(2,1345)	1:59:A:ILE:HG23	1:59:A:ILE:HG13	20	1.08
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD12	12	1.08
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	13	1.08
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	16	1.08
(2,257)	1:150:A:ILE:HD12	1:152:A:LYS:HE2	6	1.08
(2,159)	1:66:A:THR:HG23	1:67:A:VAL:HG22	6	1.08
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	5	1.07
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	12	1.07
(2,4943)	1:140:A:CYS:H	1:161:A:HIS:HD2	10	1.07
(2,4883)	1:120:A:GLN:HE22	1:116:A:GLU:HB2	10	1.07
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	11	1.07
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD21	12	1.07
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	20	1.07
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	4	1.07
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	4	1.07
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	15	1.07
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	16	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4242)	1:142:A:HIS:HA	1:61:A:LYS:HB3	14	1.07
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	14	1.07
(2,4180)	1:141:A:LEU:HD13	1:154:A:TYR:HE2	7	1.07
(2,4051)	1:29:A:LEU:HD21	1:57:A:LEU:HB3	3	1.07
(2,3941)	1:115:A:ILE:HD13	1:114:A:PHE:HB2	8	1.07
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	5	1.07
(2,3913)	1:119:A:LYS:HE2	1:116:A:GLU:HG2	7	1.07
(2,3822)	1:158:A:LYS:HG3	1:158:A:LYS:HE3	9	1.07
(2,3796)	1:130:A:ALA:HB2	1:128:A:LYS:H	8	1.07
(2,3781)	1:122:A:LEU:HD11	1:125:A:PHE:H	3	1.07
(2,3776)	1:39:A:VAL:HG13	1:46:A:PHE:HZ	1	1.07
(2,3761)	1:53:A:VAL:HG23	1:28:A:PHE:HZ	13	1.07
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD13	7	1.07
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG23	18	1.07
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG23	7	1.07
(2,1981)	1:65:A:SER:HB3	1:62:A:LEU:HD23	6	1.07
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD23	14	1.07
(2,1854)	1:97:A:PHE:HB3	1:98:A:LEU:HA	9	1.07
(2,1592)	1:77:A:LEU:HD23	1:141:A:LEU:HA	16	1.07
(2,1345)	1:59:A:ILE:HG21	1:59:A:ILE:HG13	9	1.07
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	9	1.07
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	6	1.06
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	11	1.06
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG21	8	1.06
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG21	18	1.06
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD22	8	1.06
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD11	3	1.06
(2,4334)	1:141:A:LEU:HD23	1:29:A:LEU:HD12	3	1.06
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	19	1.06
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	10	1.06
(2,4290)	1:54:A:LYS:HE2	1:64:A:GLU:HB2	3	1.06
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	2	1.06
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	18	1.06
(2,4215)	1:156:A:PRO:HD3	1:143:A:MET:HE1	3	1.06
(2,4215)	1:156:A:PRO:HD3	1:143:A:MET:HE1	17	1.06
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	1	1.06
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	6	1.06
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	10	1.06
(2,4135)	1:137:A:ASN:HB3	1:158:A:LYS:HG3	16	1.06
(2,4091)	1:31:A:ILE:HD11	1:126:A:ILE:HA	19	1.06
(2,4088)	1:31:A:ILE:HD11	1:123:A:GLU:HB2	3	1.06
(2,4088)	1:31:A:ILE:HD11	1:123:A:GLU:HB2	19	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4086)	1:51:A:ILE:HD13	1:73:A:ASP:HB3	5	1.06
(2,4081)	1:115:A:ILE:HD12	1:109:A:ILE:H	18	1.06
(2,4057)	1:29:A:LEU:HD21	1:136:A:GLN:HG2	16	1.06
(2,4051)	1:29:A:LEU:HD22	1:53:A:VAL:HB	10	1.06
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG23	5	1.06
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD11	6	1.06
(2,3768)	1:53:A:VAL:HG22	1:29:A:LEU:HG	14	1.06
(2,3709)	1:92:A:LEU:HD11	1:74:A:PHE:HA	11	1.06
(2,3709)	1:92:A:LEU:HD11	1:79:A:SER:HB3	19	1.06
(2,3027)	1:10:A:ARG:HB2	1:11:A:LEU:H	8	1.06
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	14	1.06
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	19	1.06
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	1	1.06
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	2	1.06
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD23	8	1.06
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	10	1.06
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	19	1.06
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	20	1.06
(2,1372)	1:21:A:ALA:HB2	1:22:A:TYR:HE1	11	1.06
(2,1372)	1:21:A:ALA:HB1	1:22:A:TYR:HE1	17	1.06
(2,1345)	1:59:A:ILE:HG23	1:59:A:ILE:HG13	6	1.06
(2,1345)	1:59:A:ILE:HG21	1:59:A:ILE:HG13	7	1.06
(2,1345)	1:59:A:ILE:HG21	1:59:A:ILE:HG13	14	1.06
(2,1345)	1:59:A:ILE:HG23	1:59:A:ILE:HG13	15	1.06
(2,1345)	1:59:A:ILE:HG23	1:59:A:ILE:HG13	16	1.06
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	10	1.06
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	5	1.06
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	8	1.06
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	10	1.06
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	1	1.06
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	19	1.06
(2,4973)	1:59:A:ILE:HD12	1:137:A:ASN:HD21	5	1.05
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG21	1	1.05
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG21	2	1.05
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG21	16	1.05
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	17	1.05
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG21	11	1.05
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	9	1.05
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	14	1.05
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	17	1.05
(2,4558)	1:33:A:VAL:HG13	1:127:A:ASN:HD21	16	1.05
(2,4505)	1:77:A:LEU:HD12	1:144:A:PHE:HA	2	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4453)	1:31:A:ILE:HG21	1:52:A:ARG:HB3	10	1.05
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD11	5	1.05
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD11	6	1.05
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD13	18	1.05
(2,4340)	1:144:A:PHE:HA	1:145:A:LEU:HD13	15	1.05
(2,4330)	1:141:A:LEU:HD22	1:59:A:ILE:HG21	14	1.05
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	3	1.05
(2,4290)	1:54:A:LYS:HE2	1:64:A:GLU:HB2	9	1.05
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	8	1.05
(2,4241)	1:53:A:VAL:HG21	1:31:A:ILE:HG23	8	1.05
(2,4151)	1:57:A:LEU:HD21	1:136:A:GLN:HA	1	1.05
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	7	1.05
(2,4091)	1:31:A:ILE:HD12	1:126:A:ILE:HA	20	1.05
(2,4071)	1:81:A:LEU:HD11	1:141:A:LEU:H	13	1.05
(2,4049)	1:29:A:LEU:HD11	1:54:A:LYS:HB3	1	1.05
(2,4049)	1:29:A:LEU:HD13	1:54:A:LYS:HB3	6	1.05
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG22	3	1.05
(2,3810)	1:129:A:VAL:HG12	1:128:A:LYS:HD3	7	1.05
(2,3810)	1:129:A:VAL:HG11	1:128:A:LYS:HD3	18	1.05
(2,3761)	1:53:A:VAL:HG21	1:28:A:PHE:HZ	1	1.05
(2,3747)	1:0:A:GLY:HA3	1:-1:A:VAL:HG11	7	1.05
(2,3709)	1:92:A:LEU:HD11	1:74:A:PHE:HA	3	1.05
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB1	1	1.05
(2,2151)	1:122:A:LEU:HD23	1:33:A:VAL:HG12	16	1.05
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	19	1.05
(2,1586)	1:141:A:LEU:HD13	1:144:A:PHE:HD2	1	1.05
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG21	8	1.05
(2,1410)	1:48:A:THR:HG23	1:39:A:VAL:HG23	17	1.05
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG21	20	1.05
(2,1372)	1:21:A:ALA:HB2	1:22:A:TYR:HE1	15	1.05
(2,1345)	1:59:A:ILE:HG23	1:59:A:ILE:HG13	4	1.05
(2,1345)	1:59:A:ILE:HG23	1:59:A:ILE:HG13	5	1.05
(2,1345)	1:59:A:ILE:HG21	1:59:A:ILE:HG13	8	1.05
(2,1345)	1:59:A:ILE:HG22	1:59:A:ILE:HG13	12	1.05
(2,997)	1:101:A:LEU:HD22	1:101:A:LEU:HB2	4	1.05
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	10	1.05
(2,159)	1:66:A:THR:HG21	1:67:A:VAL:HG21	13	1.05
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	18	1.04
(2,4883)	1:120:A:GLN:HE22	1:116:A:GLU:HB2	19	1.04
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	19	1.04
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	19	1.04
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	2	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	7	1.04
(2,4536)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	1	1.04
(2,4530)	1:33:A:VAL:HG11	1:144:A:PHE:HD1	16	1.04
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD21	6	1.04
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD21	16	1.04
(2,4505)	1:77:A:LEU:HD13	1:144:A:PHE:HA	8	1.04
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD13	1	1.04
(2,4341)	1:144:A:PHE:HA	1:148:A:GLU:HA	17	1.04
(2,4334)	1:141:A:LEU:HD23	1:29:A:LEU:HD12	16	1.04
(2,4330)	1:141:A:LEU:HD21	1:59:A:ILE:HG21	7	1.04
(2,4283)	1:86:A:LYS:HE3	1:86:A:LYS:HG2	4	1.04
(2,4283)	1:86:A:LYS:HE3	1:86:A:LYS:HG2	7	1.04
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	14	1.04
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	18	1.04
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	18	1.04
(2,4091)	1:31:A:ILE:HD13	1:126:A:ILE:HA	8	1.04
(2,4091)	1:31:A:ILE:HD13	1:126:A:ILE:HA	18	1.04
(2,4065)	1:81:A:LEU:HD13	1:135:A:ALA:H	8	1.04
(2,4057)	1:29:A:LEU:HD22	1:27:A:ASN:HB3	17	1.04
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG23	3	1.04
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	8	1.04
(2,3940)	1:115:A:ILE:HD12	1:110:A:PHE:HB3	18	1.04
(2,3803)	1:129:A:VAL:HG23	1:125:A:PHE:HD2	1	1.04
(2,3781)	1:122:A:LEU:HD13	1:125:A:PHE:H	10	1.04
(2,3776)	1:39:A:VAL:HG11	1:46:A:PHE:HZ	10	1.04
(2,3706)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	12	1.04
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	10	1.04
(2,3027)	1:10:A:ARG:HB2	1:11:A:LEU:H	20	1.04
(2,1988)	1:77:A:LEU:HD11	1:78:A:ARG:H	7	1.04
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG22	4	1.04
(2,1345)	1:59:A:ILE:HG22	1:59:A:ILE:HG13	1	1.04
(2,1345)	1:59:A:ILE:HG22	1:59:A:ILE:HG13	3	1.04
(2,1345)	1:59:A:ILE:HG22	1:59:A:ILE:HG13	10	1.04
(2,1345)	1:59:A:ILE:HG22	1:59:A:ILE:HG13	13	1.04
(2,1345)	1:59:A:ILE:HG23	1:59:A:ILE:HG13	17	1.04
(2,1345)	1:59:A:ILE:HG22	1:59:A:ILE:HG13	18	1.04
(2,1323)	1:150:A:ILE:HG23	1:149:A:ILE:HG21	10	1.04
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	2	1.04
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	6	1.04
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	10	1.04
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	19	1.04
(2,731)	1:123:A:GLU:HB3	1:127:A:ASN:H	19	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	1	1.04
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	5	1.04
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	15	1.04
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	17	1.04
(2,224)	1:155:A:THR:HG21	1:139:A:ARG:HG2	14	1.04
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	4	1.03
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	1	1.03
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	6	1.03
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	10	1.03
(2,4608)	1:79:A:SER:H	1:81:A:LEU:HD13	2	1.03
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	10	1.03
(2,4558)	1:33:A:VAL:HG12	1:127:A:ASN:HD21	20	1.03
(2,4527)	1:98:A:LEU:HD22	1:100:A:GLN:HG2	7	1.03
(2,4453)	1:31:A:ILE:HG21	1:52:A:ARG:HB3	4	1.03
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD11	13	1.03
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD12	16	1.03
(2,4334)	1:141:A:LEU:HD23	1:29:A:LEU:HD12	19	1.03
(2,4325)	1:33:A:VAL:HG22	1:119:A:LYS:HG3	5	1.03
(2,4325)	1:33:A:VAL:HG21	1:119:A:LYS:HG3	11	1.03
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	11	1.03
(2,4297)	1:93:A:PRO:HD2	1:74:A:PHE:HD2	20	1.03
(2,4283)	1:86:A:LYS:HE3	1:86:A:LYS:HG2	3	1.03
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	1	1.03
(2,4267)	1:52:A:ARG:HD2	1:33:A:VAL:HA	5	1.03
(2,4135)	1:137:A:ASN:HB3	1:158:A:LYS:HG3	3	1.03
(2,4059)	1:29:A:LEU:HD11	1:28:A:PHE:HD1	1	1.03
(2,4057)	1:29:A:LEU:HD23	1:27:A:ASN:HB3	1	1.03
(2,4051)	1:29:A:LEU:HD21	1:53:A:VAL:HB	19	1.03
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG22	15	1.03
(2,3941)	1:115:A:ILE:HD13	1:114:A:PHE:HB2	9	1.03
(2,3803)	1:129:A:VAL:HG21	1:125:A:PHE:HD2	6	1.03
(2,3803)	1:129:A:VAL:HG23	1:125:A:PHE:HD2	9	1.03
(2,3803)	1:129:A:VAL:HG22	1:125:A:PHE:HD2	17	1.03
(2,3781)	1:122:A:LEU:HD12	1:125:A:PHE:H	14	1.03
(2,3758)	1:47:A:THR:HG23	1:36:A:PRO:HG2	5	1.03
(2,3758)	1:47:A:THR:HG22	1:37:A:GLN:HG3	15	1.03
(2,3724)	1:89:A:VAL:HG11	1:128:A:LYS:H	16	1.03
(2,3709)	1:92:A:LEU:HD12	1:74:A:PHE:HA	4	1.03
(2,3706)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	5	1.03
(2,3589)	1:107:A:ASP:H	1:106:A:ASP:HB3	20	1.03
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	12	1.03
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD11	18	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	5	1.03
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	7	1.03
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG23	7	1.03
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG22	1	1.03
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD22	8	1.03
(2,1936)	1:136:A:GLN:HB2	1:141:A:LEU:HD23	15	1.03
(2,1573)	1:64:A:GLU:HB2	1:54:A:LYS:HG2	1	1.03
(2,1410)	1:48:A:THR:HG23	1:39:A:VAL:HG21	11	1.03
(2,1410)	1:48:A:THR:HG21	1:39:A:VAL:HG23	14	1.03
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG23	1	1.03
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG23	10	1.03
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG23	11	1.03
(2,1345)	1:59:A:ILE:HG21	1:59:A:ILE:HG13	2	1.03
(2,1345)	1:59:A:ILE:HG23	1:59:A:ILE:HG13	11	1.03
(2,1345)	1:59:A:ILE:HG23	1:59:A:ILE:HG13	19	1.03
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	11	1.03
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	12	1.03
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG11	20	1.03
(2,997)	1:101:A:LEU:HD22	1:101:A:LEU:HB2	3	1.03
(2,997)	1:101:A:LEU:HD22	1:101:A:LEU:HB2	15	1.03
(2,997)	1:101:A:LEU:HD23	1:101:A:LEU:HB2	19	1.03
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	12	1.03
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	20	1.03
(2,159)	1:66:A:THR:HG21	1:67:A:VAL:HG22	5	1.03
(2,159)	1:66:A:THR:HG22	1:67:A:VAL:HG22	17	1.03
(2,159)	1:66:A:THR:HG23	1:67:A:VAL:HG21	19	1.03
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	4	1.02
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	3	1.02
(2,4854)	1:100:A:GLN:H	1:101:A:LEU:HB3	7	1.02
(2,4710)	1:60:A:PHE:H	1:58:A:PRO:HB3	20	1.02
(2,4648)	1:150:A:ILE:HD12	1:145:A:LEU:H	4	1.02
(2,4608)	1:79:A:SER:H	1:81:A:LEU:HD13	7	1.02
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD21	15	1.02
(2,4608)	1:79:A:SER:H	1:81:A:LEU:HD12	16	1.02
(2,4608)	1:79:A:SER:H	1:81:A:LEU:HD13	18	1.02
(2,4469)	1:77:A:LEU:HD11	1:130:A:ALA:HB3	17	1.02
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD13	9	1.02
(2,4345)	1:145:A:LEU:HD11	1:141:A:LEU:HB3	18	1.02
(2,4319)	1:115:A:ILE:HG23	1:118:A:ARG:HB3	20	1.02
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	16	1.02
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	11	1.02
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	18	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	19	1.02
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	12	1.02
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD12	14	1.02
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD11	19	1.02
(2,4091)	1:31:A:ILE:HD13	1:126:A:ILE:HA	12	1.02
(2,4081)	1:115:A:ILE:HD12	1:109:A:ILE:H	19	1.02
(2,4057)	1:29:A:LEU:HD23	1:27:A:ASN:HB3	12	1.02
(2,4051)	1:29:A:LEU:HD23	1:145:A:LEU:HG	4	1.02
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB3	20	1.02
(2,3941)	1:115:A:ILE:HD11	1:114:A:PHE:HB2	2	1.02
(2,3842)	1:159:A:ILE:HG21	1:136:A:GLN:HA	8	1.02
(2,3781)	1:122:A:LEU:HD12	1:74:A:PHE:H	4	1.02
(2,3758)	1:47:A:THR:HG21	1:36:A:PRO:HG2	12	1.02
(2,3744)	1:87:A:VAL:HG23	1:82:A:GLU:HG3	4	1.02
(2,3724)	1:89:A:VAL:HG12	1:128:A:LYS:H	3	1.02
(2,3724)	1:89:A:VAL:HG13	1:128:A:LYS:H	8	1.02
(2,3706)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	4	1.02
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	18	1.02
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	5	1.02
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	12	1.02
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	8	1.02
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	5	1.02
(2,2337)	1:98:A:LEU:HD22	1:100:A:GLN:HB2	13	1.02
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	11	1.02
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG21	16	1.02
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	14	1.02
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD11	5	1.02
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD11	11	1.02
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD13	17	1.02
(2,1937)	1:136:A:GLN:HB2	1:141:A:LEU:HD11	19	1.02
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG23	9	1.02
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG21	12	1.02
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG22	17	1.02
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	7	1.02
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	18	1.02
(2,997)	1:101:A:LEU:HD23	1:101:A:LEU:HB2	9	1.02
(2,997)	1:101:A:LEU:HD23	1:101:A:LEU:HB2	16	1.02
(2,491)	1:126:A:ILE:HG23	1:123:A:GLU:HG2	10	1.02
(2,491)	1:126:A:ILE:HG21	1:123:A:GLU:HG2	19	1.02
(2,470)	1:53:A:VAL:HG23	1:62:A:LEU:H	8	1.02
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	5	1.02
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	6	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,193)	1:159:A:ILE:HA	1:160:A:ARG:HD3	17	1.02
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	12	1.01
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG21	4	1.01
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	16	1.01
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG23	19	1.01
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	2	1.01
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	6	1.01
(2,4558)	1:33:A:VAL:HG12	1:124:A:GLN:H	14	1.01
(2,4556)	1:58:A:PRO:HD2	1:136:A:GLN:HA	18	1.01
(2,4536)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	19	1.01
(2,4453)	1:31:A:ILE:HG21	1:52:A:ARG:HB3	18	1.01
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD11	4	1.01
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD12	15	1.01
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	2	1.01
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	6	1.01
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	8	1.01
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	13	1.01
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	15	1.01
(2,4241)	1:53:A:VAL:HG21	1:31:A:ILE:HG21	14	1.01
(2,4241)	1:53:A:VAL:HG21	1:31:A:ILE:HG22	16	1.01
(2,4215)	1:156:A:PRO:HD3	1:143:A:MET:HE1	13	1.01
(2,4091)	1:31:A:ILE:HD11	1:126:A:ILE:HA	4	1.01
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG22	13	1.01
(2,3796)	1:130:A:ALA:HB3	1:128:A:LYS:H	5	1.01
(2,3796)	1:130:A:ALA:HB1	1:128:A:LYS:H	10	1.01
(2,3796)	1:130:A:ALA:HB1	1:128:A:LYS:H	12	1.01
(2,3614)	1:32:A:ASP:HB2	1:123:A:GLU:HB3	20	1.01
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	9	1.01
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	4	1.01
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	9	1.01
(2,2348)	1:53:A:VAL:HG11	1:126:A:ILE:HG21	3	1.01
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG23	17	1.01
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG23	19	1.01
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	11	1.01
(2,1867)	1:98:A:LEU:HD11	1:97:A:PHE:HB3	9	1.01
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	16	1.01
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG22	7	1.01
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG21	7	1.01
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG23	15	1.01
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG23	16	1.01
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG21	18	1.01
(2,1323)	1:150:A:ILE:HG22	1:149:A:ILE:HG22	15	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	12	1.01
(2,756)	1:122:A:LEU:HD22	1:74:A:PHE:HD1	20	1.01
(2,510)	1:122:A:LEU:HD11	1:92:A:LEU:HD13	12	1.01
(2,159)	1:66:A:THR:HG23	1:67:A:VAL:HG22	14	1.01
(2,159)	1:66:A:THR:HG21	1:67:A:VAL:HG23	18	1.01
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	1	1.0
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	19	1.0
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG21	3	1.0
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG23	7	1.0
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG23	11	1.0
(2,4770)	1:10:A:ARG:H	1:11:A:LEU:HB3	9	1.0
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG21	6	1.0
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG21	20	1.0
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	5	1.0
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD23	3	1.0
(2,4527)	1:98:A:LEU:HD21	1:100:A:GLN:HG2	1	1.0
(2,4418)	1:77:A:LEU:HD12	1:144:A:PHE:H	5	1.0
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD11	8	1.0
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD11	12	1.0
(2,4341)	1:144:A:PHE:HA	1:148:A:GLU:HA	2	1.0
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	11	1.0
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	20	1.0
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	18	1.0
(2,4260)	1:55:A:THR:HG21	1:63:A:LYS:HE3	6	1.0
(2,4151)	1:57:A:LEU:HD23	1:131:A:GLY:HA3	11	1.0
(2,4065)	1:81:A:LEU:HD11	1:135:A:ALA:H	16	1.0
(2,4059)	1:29:A:LEU:HD13	1:28:A:PHE:HD1	6	1.0
(2,4059)	1:29:A:LEU:HD11	1:28:A:PHE:HD1	12	1.0
(2,4059)	1:29:A:LEU:HD11	1:28:A:PHE:HD1	20	1.0
(2,4039)	1:45:A:ARG:HA	1:38:A:THR:HG23	4	1.0
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	19	1.0
(2,3941)	1:115:A:ILE:HD11	1:114:A:PHE:HB2	18	1.0
(2,3796)	1:130:A:ALA:HB2	1:128:A:LYS:H	18	1.0
(2,3786)	1:143:A:MET:HE1	1:149:A:ILE:HG22	15	1.0
(2,3724)	1:89:A:VAL:HG11	1:128:A:LYS:H	4	1.0
(2,3706)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	2	1.0
(2,3706)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	13	1.0
(2,3027)	1:10:A:ARG:HB2	1:11:A:LEU:H	11	1.0
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	19	1.0
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG21	14	1.0
(2,1792)	1:83:A:ARG:HD3	1:84:A:GLU:H	15	1.0
(2,1410)	1:48:A:THR:HG21	1:39:A:VAL:HG22	19	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG22	2	1.0
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	20	1.0
(2,1002)	1:101:A:LEU:HD11	1:101:A:LEU:HB2	7	1.0
(2,997)	1:101:A:LEU:HD22	1:101:A:LEU:HB2	8	1.0
(2,997)	1:101:A:LEU:HD22	1:101:A:LEU:HB2	11	1.0
(2,510)	1:122:A:LEU:HD11	1:92:A:LEU:HD12	19	1.0
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	7	1.0
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	13	1.0
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD2	4	0.99
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG22	15	0.99
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	12	0.99
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG22	9	0.99
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	3	0.99
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD22	19	0.99
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	16	0.99
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	19	0.99
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	6	0.99
(2,4091)	1:31:A:ILE:HD12	1:126:A:ILE:HA	10	0.99
(2,4059)	1:29:A:LEU:HD11	1:28:A:PHE:HD1	3	0.99
(2,4051)	1:29:A:LEU:HD21	1:145:A:LEU:HG	2	0.99
(2,4049)	1:29:A:LEU:HD11	1:54:A:LYS:HB3	19	0.99
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG22	1	0.99
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	10	0.99
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	4	0.99
(2,3822)	1:158:A:LYS:HG3	1:158:A:LYS:HE3	19	0.99
(2,3786)	1:143:A:MET:HE3	1:149:A:ILE:HD11	14	0.99
(2,3781)	1:122:A:LEU:HD13	1:125:A:PHE:H	16	0.99
(2,3776)	1:39:A:VAL:HG12	1:46:A:PHE:HZ	3	0.99
(2,3768)	1:53:A:VAL:HG23	1:29:A:LEU:HG	10	0.99
(2,3724)	1:89:A:VAL:HG13	1:128:A:LYS:H	13	0.99
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG2	1	0.99
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD23	1	0.99
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	16	0.99
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	12	0.99
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	17	0.99
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	11	0.99
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	18	0.99
(2,2337)	1:98:A:LEU:HD23	1:100:A:GLN:HB2	2	0.99
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG22	2	0.99
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG21	7	0.99
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD13	3	0.99
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	5	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG23	13	0.99
(2,1372)	1:21:A:ALA:HB2	1:22:A:TYR:HE1	20	0.99
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	4	0.99
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	4	0.99
(2,997)	1:101:A:LEU:HD21	1:101:A:LEU:HB2	1	0.99
(2,997)	1:101:A:LEU:HD23	1:101:A:LEU:HB2	6	0.99
(2,997)	1:101:A:LEU:HD21	1:101:A:LEU:HB2	17	0.99
(2,997)	1:101:A:LEU:HD23	1:101:A:LEU:HB2	20	0.99
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	6	0.99
(2,510)	1:122:A:LEU:HD13	1:92:A:LEU:HD11	17	0.99
(2,491)	1:126:A:ILE:HG22	1:123:A:GLU:HG2	16	0.99
(2,470)	1:53:A:VAL:HG23	1:62:A:LEU:H	14	0.99
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	13	0.99
(2,159)	1:66:A:THR:HG23	1:67:A:VAL:HG21	10	0.99
(2,159)	1:66:A:THR:HG23	1:67:A:VAL:HG22	20	0.99
(2,4984)	1:147:A:ASP:H	1:148:A:GLU:HB2	6	0.98
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	2	0.98
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	16	0.98
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	9	0.98
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	12	0.98
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	17	0.98
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	19	0.98
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	17	0.98
(2,4527)	1:98:A:LEU:HD23	1:100:A:GLN:HG2	10	0.98
(2,4453)	1:31:A:ILE:HG21	1:52:A:ARG:HB3	11	0.98
(2,4453)	1:31:A:ILE:HG22	1:52:A:ARG:HB3	20	0.98
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	17	0.98
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	1	0.98
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	10	0.98
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	12	0.98
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	13	0.98
(2,4119)	1:5:A:VAL:HG21	1:4:A:THR:HB	14	0.98
(2,4111)	1:96:A:ALA:HB2	1:99:A:ARG:HD3	5	0.98
(2,4111)	1:96:A:ALA:HB3	1:99:A:ARG:HD2	8	0.98
(2,4088)	1:31:A:ILE:HD12	1:123:A:GLU:HB2	5	0.98
(2,4081)	1:115:A:ILE:HD13	1:109:A:ILE:H	17	0.98
(2,4037)	1:122:A:LEU:HD13	1:33:A:VAL:HG21	10	0.98
(2,3941)	1:115:A:ILE:HD11	1:114:A:PHE:HB2	15	0.98
(2,3941)	1:115:A:ILE:HD12	1:114:A:PHE:HB2	17	0.98
(2,3940)	1:115:A:ILE:HD13	1:109:A:ILE:HA	17	0.98
(2,3810)	1:129:A:VAL:HG13	1:128:A:LYS:HD3	17	0.98
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD12	16	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3781)	1:122:A:LEU:HD12	1:125:A:PHE:H	1	0.98
(2,3781)	1:122:A:LEU:HD12	1:125:A:PHE:H	17	0.98
(2,3774)	1:126:A:ILE:HG22	1:123:A:GLU:HB3	7	0.98
(2,3761)	1:53:A:VAL:HG22	1:28:A:PHE:HZ	11	0.98
(2,3724)	1:89:A:VAL:HG11	1:128:A:LYS:H	15	0.98
(2,3724)	1:89:A:VAL:HG11	1:128:A:LYS:H	19	0.98
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	11	0.98
(2,3709)	1:92:A:LEU:HD11	1:74:A:PHE:HA	15	0.98
(2,3706)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	15	0.98
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	6	0.98
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	17	0.98
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	10	0.98
(2,3024)	1:11:A:LEU:HD12	1:10:A:ARG:H	15	0.98
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	11	0.98
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	10	0.98
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB1	3	0.98
(2,2570)	1:96:A:ALA:H	1:95:A:LYS:HG3	14	0.98
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG21	1	0.98
(2,2320)	1:94:A:GLY:HA3	1:97:A:PHE:HD1	18	0.98
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG21	13	0.98
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	14	0.98
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG21	5	0.98
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG23	8	0.98
(2,1342)	1:59:A:ILE:HG23	1:136:A:GLN:HB2	19	0.98
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	7	0.98
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	10	0.98
(2,997)	1:101:A:LEU:HD21	1:101:A:LEU:HB2	2	0.98
(2,997)	1:101:A:LEU:HD23	1:101:A:LEU:HB2	5	0.98
(2,997)	1:101:A:LEU:HD23	1:101:A:LEU:HB2	12	0.98
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	5	0.98
(2,470)	1:53:A:VAL:HG22	1:62:A:LEU:H	12	0.98
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	16	0.98
(2,159)	1:66:A:THR:HG22	1:67:A:VAL:HG22	2	0.98
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	10	0.97
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD2	1	0.97
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD2	12	0.97
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	3	0.97
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	3	0.97
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	15	0.97
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	9	0.97
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	16	0.97
(2,4663)	1:154:A:TYR:H	1:152:A:LYS:HG3	6	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG23	6	0.97
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD22	14	0.97
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	11	0.97
(2,4536)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	11	0.97
(2,4527)	1:98:A:LEU:HD22	1:100:A:GLN:HG2	16	0.97
(2,4527)	1:98:A:LEU:HD23	1:100:A:GLN:HG2	19	0.97
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	8	0.97
(2,4505)	1:77:A:LEU:HD11	1:144:A:PHE:HA	20	0.97
(2,4341)	1:144:A:PHE:HA	1:148:A:GLU:HA	6	0.97
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	7	0.97
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	16	0.97
(2,4325)	1:33:A:VAL:HG23	1:119:A:LYS:HG3	10	0.97
(2,4314)	1:100:A:GLN:HG2	1:101:A:LEU:HD13	13	0.97
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	15	0.97
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	9	0.97
(2,4241)	1:53:A:VAL:HG22	1:31:A:ILE:HG21	18	0.97
(2,4193)	1:50:A:GLU:HG3	1:52:A:ARG:HD2	3	0.97
(2,4151)	1:57:A:LEU:HD22	1:136:A:GLN:HA	19	0.97
(2,4091)	1:31:A:ILE:HD11	1:126:A:ILE:HA	5	0.97
(2,4081)	1:115:A:ILE:HD11	1:109:A:ILE:H	11	0.97
(2,4065)	1:81:A:LEU:HD13	1:135:A:ALA:H	12	0.97
(2,4059)	1:29:A:LEU:HD11	1:28:A:PHE:HD1	19	0.97
(2,4051)	1:29:A:LEU:HD22	1:53:A:VAL:HB	20	0.97
(2,4049)	1:29:A:LEU:HD13	1:54:A:LYS:HB3	11	0.97
(2,4049)	1:29:A:LEU:HD13	1:54:A:LYS:HB3	17	0.97
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	3	0.97
(2,3941)	1:115:A:ILE:HD12	1:114:A:PHE:HB2	5	0.97
(2,3796)	1:130:A:ALA:HB1	1:128:A:LYS:H	1	0.97
(2,3781)	1:122:A:LEU:HD12	1:125:A:PHE:H	2	0.97
(2,3724)	1:89:A:VAL:HG13	1:128:A:LYS:H	1	0.97
(2,3724)	1:89:A:VAL:HG11	1:128:A:LYS:H	5	0.97
(2,3724)	1:89:A:VAL:HG13	1:128:A:LYS:H	11	0.97
(2,3723)	1:89:A:VAL:HG11	1:82:A:GLU:H	3	0.97
(2,3723)	1:89:A:VAL:HG13	1:82:A:GLU:H	4	0.97
(2,3709)	1:92:A:LEU:HD11	1:79:A:SER:HB3	16	0.97
(2,3658)	1:66:A:THR:HG23	1:52:A:ARG:HD3	7	0.97
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	10	0.97
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	20	0.97
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	1	0.97
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	8	0.97
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB1	8	0.97
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB2	16	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2348)	1:53:A:VAL:HG11	1:126:A:ILE:HG23	12	0.97
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG22	4	0.97
(2,1865)	1:98:A:LEU:HD12	1:94:A:GLY:HA3	3	0.97
(2,1865)	1:98:A:LEU:HD11	1:94:A:GLY:HA3	8	0.97
(2,1792)	1:83:A:ARG:HD3	1:84:A:GLU:H	1	0.97
(2,1792)	1:83:A:ARG:HD3	1:84:A:GLU:H	9	0.97
(2,1586)	1:141:A:LEU:HD12	1:144:A:PHE:HD1	14	0.97
(2,1586)	1:141:A:LEU:HD13	1:144:A:PHE:HD1	18	0.97
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG23	4	0.97
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG21	3	0.97
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG21	19	0.97
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG23	4	0.97
(2,1342)	1:59:A:ILE:HG22	1:136:A:GLN:HB2	3	0.97
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	20	0.97
(2,997)	1:101:A:LEU:HD22	1:101:A:LEU:HB2	10	0.97
(2,997)	1:101:A:LEU:HD21	1:101:A:LEU:HB2	14	0.97
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	2	0.97
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	7	0.97
(2,159)	1:66:A:THR:HG21	1:67:A:VAL:HG21	12	0.97
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	2	0.96
(2,4793)	1:28:A:PHE:H	1:55:A:THR:HG22	20	0.96
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	10	0.96
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD23	9	0.96
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD23	10	0.96
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	5	0.96
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	20	0.96
(2,4505)	1:77:A:LEU:HD13	1:144:A:PHE:HA	1	0.96
(2,4469)	1:77:A:LEU:HD12	1:130:A:ALA:HB1	5	0.96
(2,4441)	1:33:A:VAL:HG11	1:122:A:LEU:H	11	0.96
(2,4330)	1:141:A:LEU:HD21	1:59:A:ILE:HG21	8	0.96
(2,4319)	1:115:A:ILE:HG21	1:118:A:ARG:HB3	12	0.96
(2,4065)	1:81:A:LEU:HD13	1:135:A:ALA:H	20	0.96
(2,4059)	1:29:A:LEU:HD13	1:28:A:PHE:HD1	7	0.96
(2,4059)	1:29:A:LEU:HD13	1:28:A:PHE:HD1	17	0.96
(2,4049)	1:29:A:LEU:HD11	1:54:A:LYS:HB3	13	0.96
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	15	0.96
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB2	6	0.96
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	15	0.96
(2,3940)	1:115:A:ILE:HD11	1:109:A:ILE:HA	11	0.96
(2,3922)	1:119:A:LYS:HE3	1:33:A:VAL:HG22	4	0.96
(2,3810)	1:129:A:VAL:HG11	1:128:A:LYS:HD3	12	0.96
(2,3803)	1:129:A:VAL:HG23	1:125:A:PHE:HD2	11	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3796)	1:130:A:ALA:HB2	1:128:A:LYS:H	17	0.96
(2,3776)	1:39:A:VAL:HG12	1:46:A:PHE:HZ	12	0.96
(2,3758)	1:47:A:THR:HG21	1:36:A:PRO:HG2	3	0.96
(2,3758)	1:47:A:THR:HG22	1:36:A:PRO:HG2	18	0.96
(2,3724)	1:89:A:VAL:HG11	1:128:A:LYS:H	10	0.96
(2,3709)	1:92:A:LEU:HD13	1:74:A:PHE:HA	14	0.96
(2,3709)	1:92:A:LEU:HD13	1:79:A:SER:HB3	18	0.96
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	6	0.96
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	10	0.96
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	20	0.96
(2,3010)	1:8:A:THR:H	1:8:A:THR:HG22	6	0.96
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	2	0.96
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	16	0.96
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	12	0.96
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG21	3	0.96
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG23	7	0.96
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG22	9	0.96
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG23	19	0.96
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG23	16	0.96
(2,2337)	1:98:A:LEU:HD23	1:100:A:GLN:HB2	18	0.96
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG22	8	0.96
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG22	10	0.96
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD12	13	0.96
(2,1446)	1:133:A:PRO:HA	1:136:A:GLN:HB3	19	0.96
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG22	6	0.96
(2,1410)	1:48:A:THR:HG23	1:39:A:VAL:HG22	18	0.96
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG21	6	0.96
(2,1372)	1:21:A:ALA:HB1	1:22:A:TYR:HE1	14	0.96
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	15	0.96
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	18	0.96
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD11	18	0.96
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	10	0.96
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	7	0.96
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	2	0.96
(2,159)	1:66:A:THR:HG22	1:67:A:VAL:HG21	15	0.96
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	9	0.95
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	19	0.95
(2,4891)	1:143:A:MET:H	1:150:A:ILE:HD11	7	0.95
(2,4847)	1:76:A:TRP:H	1:71:A:TYR:HD1	2	0.95
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG21	12	0.95
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	11	0.95
(2,4727)	1:33:A:VAL:HG22	1:50:A:GLU:H	1	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	13	0.95
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD21	1	0.95
(2,4608)	1:79:A:SER:H	1:81:A:LEU:HD13	6	0.95
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD23	8	0.95
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD23	20	0.95
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	1	0.95
(2,4527)	1:98:A:LEU:HD21	1:100:A:GLN:HG2	3	0.95
(2,4469)	1:77:A:LEU:HD12	1:130:A:ALA:HB2	4	0.95
(2,4345)	1:145:A:LEU:HD13	1:141:A:LEU:HB3	4	0.95
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	5	0.95
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	13	0.95
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	15	0.95
(2,4111)	1:96:A:ALA:HB3	1:99:A:ARG:HD3	10	0.95
(2,4091)	1:31:A:ILE:HD12	1:126:A:ILE:HA	17	0.95
(2,4071)	1:81:A:LEU:HD12	1:141:A:LEU:H	20	0.95
(2,4059)	1:29:A:LEU:HD11	1:28:A:PHE:HD1	14	0.95
(2,4059)	1:29:A:LEU:HD12	1:28:A:PHE:HD1	18	0.95
(2,4023)	1:12:A:ILE:HD12	1:10:A:ARG:HD3	6	0.95
(2,3940)	1:115:A:ILE:HD11	1:110:A:PHE:HB3	20	0.95
(2,3796)	1:130:A:ALA:HB2	1:128:A:LYS:H	15	0.95
(2,3776)	1:39:A:VAL:HG12	1:46:A:PHE:HZ	9	0.95
(2,3776)	1:39:A:VAL:HG12	1:46:A:PHE:HZ	14	0.95
(2,3774)	1:126:A:ILE:HG22	1:123:A:GLU:HB3	18	0.95
(2,3764)	1:53:A:VAL:HG22	1:30:A:GLU:HG3	6	0.95
(2,3761)	1:53:A:VAL:HG21	1:28:A:PHE:HZ	7	0.95
(2,3758)	1:47:A:THR:HG21	1:36:A:PRO:HG2	4	0.95
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG2	4	0.95
(2,3709)	1:92:A:LEU:HD12	1:79:A:SER:HB3	9	0.95
(2,3706)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	9	0.95
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	4	0.95
(2,3024)	1:11:A:LEU:HD12	1:10:A:ARG:H	19	0.95
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB1	19	0.95
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB2	20	0.95
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG23	6	0.95
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG21	8	0.95
(2,2051)	1:51:A:ILE:HG13	1:67:A:VAL:HG23	3	0.95
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE1	10	0.95
(2,1586)	1:141:A:LEU:HD12	1:144:A:PHE:HD2	8	0.95
(2,1586)	1:141:A:LEU:HD11	1:144:A:PHE:HD1	11	0.95
(2,1410)	1:48:A:THR:HG23	1:39:A:VAL:HG21	10	0.95
(2,1372)	1:21:A:ALA:HB3	1:22:A:TYR:HE1	19	0.95
(2,1342)	1:59:A:ILE:HG23	1:136:A:GLN:HB2	15	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1323)	1:150:A:ILE:HG22	1:149:A:ILE:HG22	7	0.95
(2,1101)	1:11:A:LEU:HD13	1:12:A:ILE:H	15	0.95
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	9	0.95
(2,470)	1:53:A:VAL:HG21	1:62:A:LEU:H	3	0.95
(2,470)	1:53:A:VAL:HG23	1:62:A:LEU:H	6	0.95
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	18	0.94
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG22	13	0.94
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	18	0.94
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD12	19	0.94
(2,4505)	1:77:A:LEU:HD11	1:144:A:PHE:HA	11	0.94
(2,4469)	1:77:A:LEU:HD11	1:130:A:ALA:HB3	18	0.94
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD12	7	0.94
(2,4325)	1:33:A:VAL:HG21	1:119:A:LYS:HG3	13	0.94
(2,4260)	1:55:A:THR:HG21	1:63:A:LYS:HE3	18	0.94
(2,4242)	1:142:A:HIS:HA	1:145:A:LEU:HB2	10	0.94
(2,4241)	1:53:A:VAL:HG21	1:31:A:ILE:HG23	15	0.94
(2,4111)	1:96:A:ALA:HB3	1:99:A:ARG:HD2	19	0.94
(2,4091)	1:31:A:ILE:HD11	1:126:A:ILE:HA	1	0.94
(2,4088)	1:31:A:ILE:HD12	1:123:A:GLU:HB2	13	0.94
(2,4081)	1:115:A:ILE:HD12	1:109:A:ILE:H	2	0.94
(2,4081)	1:115:A:ILE:HD12	1:109:A:ILE:H	15	0.94
(2,4071)	1:81:A:LEU:HD12	1:141:A:LEU:H	8	0.94
(2,4059)	1:29:A:LEU:HD11	1:28:A:PHE:HD1	2	0.94
(2,4059)	1:29:A:LEU:HD13	1:28:A:PHE:HD1	8	0.94
(2,4059)	1:29:A:LEU:HD13	1:28:A:PHE:HD1	11	0.94
(2,4059)	1:29:A:LEU:HD11	1:28:A:PHE:HD1	16	0.94
(2,4051)	1:29:A:LEU:HD21	1:145:A:LEU:HG	7	0.94
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG21	2	0.94
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	6	0.94
(2,3824)	1:158:A:LYS:HB3	1:158:A:LYS:HE2	19	0.94
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD13	18	0.94
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	20	0.94
(2,3761)	1:53:A:VAL:HG22	1:28:A:PHE:HZ	6	0.94
(2,3758)	1:47:A:THR:HG21	1:36:A:PRO:HG2	6	0.94
(2,3724)	1:89:A:VAL:HG13	1:128:A:LYS:H	2	0.94
(2,3724)	1:89:A:VAL:HG11	1:128:A:LYS:H	14	0.94
(2,3723)	1:89:A:VAL:HG12	1:82:A:GLU:H	1	0.94
(2,3723)	1:89:A:VAL:HG13	1:81:A:LEU:H	19	0.94
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD21	6	0.94
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE2	4	0.94
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	3	0.94
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	8	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	10	0.94
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	1	0.94
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	8	0.94
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	18	0.94
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB3	9	0.94
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB3	12	0.94
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB2	18	0.94
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG22	2	0.94
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG23	4	0.94
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG23	11	0.94
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG21	13	0.94
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG21	20	0.94
(2,2337)	1:98:A:LEU:HD22	1:100:A:GLN:HB2	5	0.94
(2,2288)	1:162:A:ALA:HB2	1:161:A:HIS:HB2	16	0.94
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG22	12	0.94
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG22	18	0.94
(2,1372)	1:21:A:ALA:HB3	1:22:A:TYR:HE1	7	0.94
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	8	0.94
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	1	0.94
(2,941)	1:109:A:ILE:HD11	1:107:A:ASP:HB3	9	0.94
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	13	0.94
(2,470)	1:53:A:VAL:HG22	1:62:A:LEU:H	1	0.94
(2,470)	1:53:A:VAL:HG23	1:62:A:LEU:H	2	0.94
(2,470)	1:53:A:VAL:HG22	1:62:A:LEU:H	7	0.94
(2,470)	1:53:A:VAL:HG21	1:62:A:LEU:H	13	0.94
(2,470)	1:53:A:VAL:HG23	1:62:A:LEU:H	16	0.94
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	14	0.94
(2,159)	1:66:A:THR:HG22	1:67:A:VAL:HG23	8	0.94
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	1	0.93
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	10	0.93
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	9	0.93
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	3	0.93
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	5	0.93
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	8	0.93
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG12	3	0.93
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG23	17	0.93
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	13	0.93
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	12	0.93
(2,4527)	1:98:A:LEU:HD22	1:100:A:GLN:HG2	13	0.93
(2,4334)	1:141:A:LEU:HD23	1:29:A:LEU:HD12	1	0.93
(2,4332)	1:141:A:LEU:HD12	1:132:A:HIS:HB3	5	0.93
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD11	18	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	11	0.93
(2,4151)	1:57:A:LEU:HD23	1:131:A:GLY:HA3	8	0.93
(2,4128)	1:77:A:LEU:HB3	1:150:A:ILE:HD12	17	0.93
(2,4071)	1:81:A:LEU:HD11	1:141:A:LEU:H	15	0.93
(2,4065)	1:81:A:LEU:HD13	1:135:A:ALA:H	11	0.93
(2,3796)	1:130:A:ALA:HB2	1:128:A:LYS:H	2	0.93
(2,3796)	1:130:A:ALA:HB3	1:128:A:LYS:H	6	0.93
(2,3796)	1:130:A:ALA:HB3	1:128:A:LYS:H	13	0.93
(2,3796)	1:130:A:ALA:HB1	1:128:A:LYS:H	14	0.93
(2,3781)	1:122:A:LEU:HD13	1:125:A:PHE:H	12	0.93
(2,3774)	1:126:A:ILE:HG21	1:123:A:GLU:HB3	6	0.93
(2,3758)	1:47:A:THR:HG22	1:36:A:PRO:HG2	7	0.93
(2,3758)	1:47:A:THR:HG23	1:36:A:PRO:HG2	17	0.93
(2,3724)	1:89:A:VAL:HG11	1:128:A:LYS:H	6	0.93
(2,3723)	1:89:A:VAL:HG13	1:82:A:GLU:H	6	0.93
(2,3723)	1:89:A:VAL:HG12	1:82:A:GLU:H	13	0.93
(2,3658)	1:66:A:THR:HG22	1:52:A:ARG:HD3	5	0.93
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE2	13	0.93
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	16	0.93
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	9	0.93
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	5	0.93
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	17	0.93
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	15	0.93
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG21	12	0.93
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG23	17	0.93
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG22	19	0.93
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG23	18	0.93
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD13	19	0.93
(2,1586)	1:141:A:LEU:HD12	1:144:A:PHE:HD2	6	0.93
(2,1474)	1:137:A:ASN:HB2	1:158:A:LYS:HB2	19	0.93
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG21	15	0.93
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG21	3	0.93
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	17	0.93
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	17	0.93
(2,224)	1:155:A:THR:HG21	1:139:A:ARG:HG2	16	0.93
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	8	0.92
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	8	0.92
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	10	0.92
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG23	11	0.92
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	8	0.92
(2,4775)	1:11:A:LEU:HB2	1:11:A:LEU:H	12	0.92
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	8	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4558)	1:33:A:VAL:HG12	1:127:A:ASN:HD21	5	0.92
(2,4536)	1:92:A:LEU:HD13	1:125:A:PHE:HE1	18	0.92
(2,4346)	1:145:A:LEU:HA	1:145:A:LEU:HD21	10	0.92
(2,4330)	1:141:A:LEU:HD22	1:59:A:ILE:HG23	4	0.92
(2,4330)	1:141:A:LEU:HD22	1:59:A:ILE:HG23	15	0.92
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	14	0.92
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	6	0.92
(2,4153)	1:57:A:LEU:HD22	1:24:A:PRO:HB2	17	0.92
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	17	0.92
(2,4065)	1:81:A:LEU:HD12	1:135:A:ALA:H	2	0.92
(2,4057)	1:29:A:LEU:HD21	1:136:A:GLN:HG2	14	0.92
(2,4049)	1:29:A:LEU:HD11	1:54:A:LYS:HB3	20	0.92
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG12	7	0.92
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG11	18	0.92
(2,3803)	1:129:A:VAL:HG23	1:125:A:PHE:HD2	8	0.92
(2,3796)	1:130:A:ALA:HB1	1:128:A:LYS:H	7	0.92
(2,3796)	1:130:A:ALA:HB1	1:128:A:LYS:H	16	0.92
(2,3796)	1:130:A:ALA:HB3	1:128:A:LYS:H	19	0.92
(2,3781)	1:122:A:LEU:HD12	1:125:A:PHE:H	6	0.92
(2,3781)	1:122:A:LEU:HD11	1:125:A:PHE:H	7	0.92
(2,3781)	1:122:A:LEU:HD13	1:74:A:PHE:H	11	0.92
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	3	0.92
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	4	0.92
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	5	0.92
(2,3758)	1:47:A:THR:HG23	1:36:A:PRO:HG2	8	0.92
(2,3754)	1:145:A:LEU:HA	1:53:A:VAL:HG13	19	0.92
(2,3724)	1:89:A:VAL:HG13	1:128:A:LYS:H	9	0.92
(2,3724)	1:89:A:VAL:HG12	1:128:A:LYS:H	20	0.92
(2,3688)	1:150:A:ILE:HD13	1:73:A:ASP:H	19	0.92
(2,3650)	1:142:A:HIS:HA	1:59:A:ILE:HD13	20	0.92
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	10	0.92
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE2	16	0.92
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	7	0.92
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	6	0.92
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	8	0.92
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	14	0.92
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	15	0.92
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	14	0.92
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB1	15	0.92
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG21	14	0.92
(2,2372)	1:33:A:VAL:HG21	1:74:A:PHE:HD2	5	0.92
(2,2348)	1:53:A:VAL:HG13	1:126:A:ILE:HG21	10	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2312)	1:77:A:LEU:HD21	1:144:A:PHE:HZ	11	0.92
(2,2312)	1:77:A:LEU:HD21	1:144:A:PHE:HZ	14	0.92
(2,1586)	1:141:A:LEU:HD12	1:144:A:PHE:HD1	15	0.92
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG21	9	0.92
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG21	5	0.92
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG23	6	0.92
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG22	10	0.92
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG23	12	0.92
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG23	13	0.92
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG22	14	0.92
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG21	15	0.92
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG22	20	0.92
(2,1372)	1:21:A:ALA:HB2	1:22:A:TYR:HE1	10	0.92
(2,1372)	1:21:A:ALA:HB2	1:22:A:TYR:HE2	16	0.92
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD11	7	0.92
(2,470)	1:53:A:VAL:HG23	1:62:A:LEU:H	4	0.92
(2,470)	1:53:A:VAL:HG22	1:62:A:LEU:H	17	0.92
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	7	0.91
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG23	6	0.91
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	7	0.91
(2,4744)	1:55:A:THR:HG22	1:62:A:LEU:H	15	0.91
(2,4536)	1:92:A:LEU:HD13	1:125:A:PHE:HE1	17	0.91
(2,4469)	1:77:A:LEU:HD13	1:130:A:ALA:HB1	6	0.91
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	11	0.91
(2,4283)	1:86:A:LYS:HE3	1:86:A:LYS:HG2	17	0.91
(2,4270)	1:97:A:PHE:HB3	1:114:A:PHE:H	20	0.91
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	12	0.91
(2,4182)	1:141:A:LEU:HD11	1:143:A:MET:HG2	13	0.91
(2,4151)	1:57:A:LEU:HD21	1:131:A:GLY:HA3	5	0.91
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	18	0.91
(2,4111)	1:96:A:ALA:HB1	1:99:A:ARG:HD2	16	0.91
(2,4088)	1:31:A:ILE:HD11	1:123:A:GLU:HB2	1	0.91
(2,4088)	1:31:A:ILE:HD12	1:123:A:GLU:HB2	20	0.91
(2,4065)	1:81:A:LEU:HD12	1:135:A:ALA:H	7	0.91
(2,4059)	1:29:A:LEU:HD11	1:28:A:PHE:HD1	4	0.91
(2,4059)	1:29:A:LEU:HD12	1:28:A:PHE:HD1	5	0.91
(2,4059)	1:29:A:LEU:HD12	1:28:A:PHE:HD1	10	0.91
(2,4051)	1:29:A:LEU:HD23	1:53:A:VAL:HB	11	0.91
(2,3940)	1:115:A:ILE:HD12	1:109:A:ILE:HA	2	0.91
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG13	6	0.91
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG11	12	0.91
(2,3803)	1:129:A:VAL:HG23	1:125:A:PHE:HD2	13	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3786)	1:143:A:MET:HE2	1:149:A:ILE:HD13	1	0.91
(2,3781)	1:122:A:LEU:HD11	1:125:A:PHE:H	18	0.91
(2,3774)	1:126:A:ILE:HG21	1:123:A:GLU:HB3	2	0.91
(2,3758)	1:47:A:THR:HG21	1:36:A:PRO:HG2	13	0.91
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	1	0.91
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE2	5	0.91
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	2	0.91
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	14	0.91
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	3	0.91
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	2	0.91
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	4	0.91
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	18	0.91
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB2	4	0.91
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG21	5	0.91
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG22	10	0.91
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG21	15	0.91
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG22	16	0.91
(2,2370)	1:145:A:LEU:HD21	1:136:A:GLN:HE22	3	0.91
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG21	5	0.91
(2,2292)	1:77:A:LEU:HD13	1:74:A:PHE:HA	16	0.91
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG21	9	0.91
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG21	12	0.91
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	9	0.91
(2,1586)	1:141:A:LEU:HD12	1:144:A:PHE:HD2	19	0.91
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG23	2	0.91
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG22	7	0.91
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG21	8	0.91
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG22	16	0.91
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	15	0.91
(2,533)	1:143:A:MET:HE3	1:143:A:MET:HG2	8	0.91
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	10	0.91
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	18	0.91
(2,193)	1:159:A:ILE:HA	1:160:A:ARG:HD3	4	0.91
(2,159)	1:66:A:THR:HG21	1:67:A:VAL:HG21	1	0.91
(2,159)	1:66:A:THR:HG21	1:67:A:VAL:HG23	9	0.91
(2,159)	1:66:A:THR:HG21	1:67:A:VAL:HG22	16	0.91
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	11	0.9
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	13	0.9
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	10	0.9
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG21	10	0.9
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	15	0.9
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD13	10	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	3	0.9
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	13	0.9
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD22	19	0.9
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	3	0.9
(2,4441)	1:33:A:VAL:HG11	1:122:A:LEU:H	17	0.9
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	11	0.9
(2,4193)	1:50:A:GLU:HG3	1:52:A:ARG:HD2	4	0.9
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	9	0.9
(2,4119)	1:5:A:VAL:HG22	1:4:A:THR:HB	8	0.9
(2,4091)	1:31:A:ILE:HD13	1:126:A:ILE:HA	15	0.9
(2,4088)	1:31:A:ILE:HD11	1:123:A:GLU:HB2	8	0.9
(2,4088)	1:31:A:ILE:HD12	1:123:A:GLU:HB2	14	0.9
(2,4088)	1:31:A:ILE:HD12	1:123:A:GLU:HB2	17	0.9
(2,4065)	1:81:A:LEU:HD13	1:135:A:ALA:H	1	0.9
(2,4065)	1:81:A:LEU:HD12	1:135:A:ALA:H	18	0.9
(2,4059)	1:29:A:LEU:HD11	1:28:A:PHE:HD1	13	0.9
(2,4059)	1:29:A:LEU:HD12	1:28:A:PHE:HD1	15	0.9
(2,4051)	1:29:A:LEU:HD21	1:145:A:LEU:HG	18	0.9
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	12	0.9
(2,4015)	1:43:A:ARG:HG2	1:106:A:ASP:HB2	12	0.9
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	15	0.9
(2,3956)	1:108:A:GLY:HA2	1:109:A:ILE:HG21	9	0.9
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	11	0.9
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	4	0.9
(2,3810)	1:129:A:VAL:HG11	1:128:A:LYS:HD3	20	0.9
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	9	0.9
(2,3761)	1:53:A:VAL:HG21	1:28:A:PHE:HZ	17	0.9
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	6	0.9
(2,3744)	1:87:A:VAL:HG21	1:82:A:GLU:HG3	3	0.9
(2,3709)	1:92:A:LEU:HD13	1:79:A:SER:HB3	7	0.9
(2,3658)	1:66:A:THR:HG21	1:52:A:ARG:HD3	6	0.9
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	18	0.9
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	12	0.9
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	3	0.9
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	8	0.9
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	11	0.9
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	19	0.9
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	18	0.9
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	9	0.9
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	18	0.9
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB2	17	0.9
(2,2554)	1:89:A:VAL:H	1:87:A:VAL:HG22	18	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2372)	1:33:A:VAL:HG21	1:74:A:PHE:HD2	3	0.9
(2,2348)	1:53:A:VAL:HG13	1:126:A:ILE:HG22	13	0.9
(2,2337)	1:98:A:LEU:HD23	1:100:A:GLN:HB2	10	0.9
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG22	3	0.9
(2,1613)	1:50:A:GLU:HG2	1:68:A:ARG:HG3	2	0.9
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	12	0.9
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG22	11	0.9
(2,1342)	1:59:A:ILE:HG23	1:136:A:GLN:HB2	20	0.9
(2,1215)	1:29:A:LEU:HD22	1:30:A:GLU:H	5	0.9
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	4	0.9
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	10	0.9
(2,533)	1:143:A:MET:HE2	1:143:A:MET:HG2	1	0.9
(2,470)	1:53:A:VAL:HG21	1:62:A:LEU:H	18	0.9
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	5	0.9
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	17	0.9
(2,257)	1:150:A:ILE:HD12	1:152:A:LYS:HE2	5	0.9
(2,159)	1:66:A:THR:HG21	1:67:A:VAL:HG21	3	0.9
(2,159)	1:66:A:THR:HG22	1:67:A:VAL:HG21	7	0.9
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	18	0.89
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD2	3	0.89
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	8	0.89
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	11	0.89
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	20	0.89
(2,4775)	1:11:A:LEU:HB2	1:11:A:LEU:H	6	0.89
(2,4775)	1:11:A:LEU:HB2	1:11:A:LEU:H	9	0.89
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD2	18	0.89
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	9	0.89
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	6	0.89
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	12	0.89
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD12	1	0.89
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	6	0.89
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD22	10	0.89
(2,4441)	1:33:A:VAL:HG13	1:122:A:LEU:H	7	0.89
(2,4441)	1:33:A:VAL:HG12	1:122:A:LEU:H	18	0.89
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD13	17	0.89
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD13	20	0.89
(2,4345)	1:145:A:LEU:HD13	1:141:A:LEU:HB3	2	0.89
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	17	0.89
(2,4267)	1:52:A:ARG:HD2	1:33:A:VAL:HA	17	0.89
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	10	0.89
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	4	0.89
(2,4115)	1:135:A:ALA:HB2	1:136:A:GLN:HG3	4	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4091)	1:31:A:ILE:HD11	1:126:A:ILE:HA	3	0.89
(2,4088)	1:31:A:ILE:HD13	1:123:A:GLU:HB2	6	0.89
(2,4088)	1:31:A:ILE:HD11	1:123:A:GLU:HB2	9	0.89
(2,4065)	1:81:A:LEU:HD12	1:135:A:ALA:H	4	0.89
(2,4057)	1:29:A:LEU:HD23	1:27:A:ASN:HB3	7	0.89
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	8	0.89
(2,4027)	1:152:A:LYS:HE3	1:76:A:TRP:H	15	0.89
(2,3991)	1:26:A:SER:HB2	1:57:A:LEU:HD23	4	0.89
(2,3803)	1:129:A:VAL:HG23	1:125:A:PHE:HD2	16	0.89
(2,3796)	1:130:A:ALA:HB1	1:128:A:LYS:H	3	0.89
(2,3780)	1:122:A:LEU:HD12	1:123:A:GLU:H	2	0.89
(2,3780)	1:122:A:LEU:HD11	1:123:A:GLU:H	3	0.89
(2,3780)	1:122:A:LEU:HD13	1:123:A:GLU:H	10	0.89
(2,3780)	1:122:A:LEU:HD13	1:123:A:GLU:H	20	0.89
(2,3774)	1:126:A:ILE:HG22	1:123:A:GLU:HB3	12	0.89
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	14	0.89
(2,3723)	1:89:A:VAL:HG12	1:82:A:GLU:H	2	0.89
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	2	0.89
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	13	0.89
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	15	0.89
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	4	0.89
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	10	0.89
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	16	0.89
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	19	0.89
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB2	5	0.89
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB1	10	0.89
(2,2348)	1:53:A:VAL:HG11	1:126:A:ILE:HG21	17	0.89
(2,2105)	1:14:A:LYS:HE3	1:13:A:THR:H	20	0.89
(2,1586)	1:141:A:LEU:HD11	1:144:A:PHE:HD2	13	0.89
(2,1407)	1:40:A:GLY:HA3	1:39:A:VAL:HG22	14	0.89
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG21	1	0.89
(2,1372)	1:21:A:ALA:HB3	1:22:A:TYR:HE1	8	0.89
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	8	0.89
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	3	0.89
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	8	0.89
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	4	0.89
(2,533)	1:143:A:MET:HE3	1:143:A:MET:HG2	12	0.89
(2,470)	1:53:A:VAL:HG22	1:62:A:LEU:H	15	0.89
(2,470)	1:53:A:VAL:HG22	1:62:A:LEU:H	20	0.89
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	20	0.89
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG21	9	0.88
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	14	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4796)	1:29:A:LEU:HD22	1:30:A:GLU:H	5	0.88
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG12	4	0.88
(2,4744)	1:55:A:THR:HG23	1:62:A:LEU:H	7	0.88
(2,4744)	1:55:A:THR:HG23	1:62:A:LEU:H	11	0.88
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	1	0.88
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	4	0.88
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	19	0.88
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG13	4	0.88
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG13	7	0.88
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG12	20	0.88
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	6	0.88
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	15	0.88
(2,4505)	1:77:A:LEU:HD11	1:144:A:PHE:HA	14	0.88
(2,4475)	1:141:A:LEU:HD11	1:77:A:LEU:HD12	4	0.88
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD13	2	0.88
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD13	10	0.88
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	8	0.88
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	12	0.88
(2,4341)	1:144:A:PHE:HA	1:148:A:GLU:HA	15	0.88
(2,4330)	1:141:A:LEU:HD21	1:59:A:ILE:HG23	20	0.88
(2,4260)	1:55:A:THR:HG23	1:63:A:LYS:HE3	19	0.88
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HB2	14	0.88
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	7	0.88
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	12	0.88
(2,4111)	1:96:A:ALA:HB3	1:99:A:ARG:HD2	15	0.88
(2,4091)	1:31:A:ILE:HD12	1:126:A:ILE:HA	14	0.88
(2,4057)	1:29:A:LEU:HD23	1:27:A:ASN:HB3	2	0.88
(2,4057)	1:29:A:LEU:HD21	1:136:A:GLN:HG2	8	0.88
(2,4004)	1:159:A:ILE:HD12	1:141:A:LEU:HG	1	0.88
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	11	0.88
(2,3803)	1:129:A:VAL:HG21	1:125:A:PHE:HD2	2	0.88
(2,3796)	1:130:A:ALA:HB1	1:128:A:LYS:H	4	0.88
(2,3781)	1:122:A:LEU:HD13	1:125:A:PHE:H	19	0.88
(2,3776)	1:39:A:VAL:HG11	1:46:A:PHE:HZ	16	0.88
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	1	0.88
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	14	0.88
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	15	0.88
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	17	0.88
(2,3762)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	5	0.88
(2,3758)	1:47:A:THR:HG21	1:36:A:PRO:HG2	2	0.88
(2,3758)	1:47:A:THR:HG21	1:36:A:PRO:HG2	16	0.88
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	17	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3724)	1:89:A:VAL:HG12	1:128:A:LYS:H	12	0.88
(2,3724)	1:89:A:VAL:HG13	1:128:A:LYS:H	17	0.88
(2,3706)	1:92:A:LEU:HD13	1:125:A:PHE:HE1	7	0.88
(2,3687)	1:150:A:ILE:HD11	1:144:A:PHE:H	18	0.88
(2,3658)	1:66:A:THR:HG23	1:52:A:ARG:HD3	17	0.88
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	20	0.88
(2,3606)	1:90:A:PRO:HD3	1:89:A:VAL:HG23	18	0.88
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	3	0.88
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	7	0.88
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	20	0.88
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	4	0.88
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	7	0.88
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	8	0.88
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	15	0.88
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	13	0.88
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	13	0.88
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	6	0.88
(2,2542)	1:85:A:SER:HB2	1:87:A:VAL:H	5	0.88
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG21	9	0.88
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	12	0.88
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG21	20	0.88
(2,2337)	1:98:A:LEU:HD21	1:100:A:GLN:HB2	15	0.88
(2,2270)	1:145:A:LEU:HD12	1:144:A:PHE:HD2	19	0.88
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG21	6	0.88
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	10	0.88
(2,1586)	1:141:A:LEU:HD13	1:144:A:PHE:HD2	2	0.88
(2,1586)	1:141:A:LEU:HD12	1:144:A:PHE:HD2	3	0.88
(2,1586)	1:141:A:LEU:HD13	1:144:A:PHE:HD2	10	0.88
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	1	0.88
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	10	0.88
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG22	19	0.88
(2,1372)	1:21:A:ALA:HB1	1:22:A:TYR:HE1	3	0.88
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG22	7	0.88
(2,1215)	1:29:A:LEU:HD21	1:30:A:GLU:H	12	0.88
(2,1215)	1:29:A:LEU:HD21	1:30:A:GLU:H	15	0.88
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	15	0.88
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	7	0.88
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	17	0.88
(2,1136)	1:59:A:ILE:HD13	1:136:A:GLN:HB2	18	0.88
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	8	0.88
(2,510)	1:122:A:LEU:HD13	1:92:A:LEU:HD12	11	0.88
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	12	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	14	0.88
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	19	0.88
(2,223)	1:155:A:THR:HA	1:139:A:ARG:HG2	14	0.88
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	2	0.87
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	13	0.87
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	20	0.87
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD12	16	0.87
(2,4558)	1:33:A:VAL:HG11	1:127:A:ASN:HD21	12	0.87
(2,4536)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	16	0.87
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	12	0.87
(2,4469)	1:77:A:LEU:HD13	1:130:A:ALA:HB1	13	0.87
(2,4334)	1:141:A:LEU:HD23	1:29:A:LEU:HD11	9	0.87
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	16	0.87
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	19	0.87
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	12	0.87
(2,4215)	1:156:A:PRO:HD3	1:143:A:MET:HE1	14	0.87
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	12	0.87
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	16	0.87
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	1	0.87
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	6	0.87
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	7	0.87
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	12	0.87
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	18	0.87
(2,4111)	1:96:A:ALA:HB3	1:99:A:ARG:HD2	3	0.87
(2,4088)	1:31:A:ILE:HD13	1:123:A:GLU:HB2	11	0.87
(2,4057)	1:29:A:LEU:HD23	1:27:A:ASN:HB3	15	0.87
(2,4033)	1:59:A:ILE:HD13	1:138:A:GLU:H	11	0.87
(2,4023)	1:12:A:ILE:HD12	1:10:A:ARG:HD3	13	0.87
(2,3940)	1:115:A:ILE:HD13	1:110:A:PHE:HB3	5	0.87
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	11	0.87
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	16	0.87
(2,3842)	1:159:A:ILE:HG22	1:136:A:GLN:HA	15	0.87
(2,3781)	1:122:A:LEU:HD11	1:125:A:PHE:H	5	0.87
(2,3781)	1:122:A:LEU:HD11	1:125:A:PHE:H	8	0.87
(2,3758)	1:47:A:THR:HG23	1:36:A:PRO:HG2	10	0.87
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	13	0.87
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	18	0.87
(2,3723)	1:89:A:VAL:HG13	1:82:A:GLU:H	16	0.87
(2,3709)	1:92:A:LEU:HD11	1:79:A:SER:HB3	8	0.87
(2,3706)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	6	0.87
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD21	7	0.87
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	10	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3612)	1:32:A:ASP:HB2	1:52:A:ARG:HD3	20	0.87
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE2	16	0.87
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	5	0.87
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	16	0.87
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD21	7	0.87
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	7	0.87
(2,2372)	1:33:A:VAL:HG21	1:74:A:PHE:HD2	4	0.87
(2,2288)	1:162:A:ALA:HB2	1:161:A:HIS:HB2	14	0.87
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG22	20	0.87
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD13	5	0.87
(2,1865)	1:98:A:LEU:HD12	1:94:A:GLY:HA3	4	0.87
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	8	0.87
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	18	0.87
(2,1586)	1:141:A:LEU:HD13	1:144:A:PHE:HD2	20	0.87
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	11	0.87
(2,1409)	1:39:A:VAL:HG22	1:37:A:GLN:HB2	12	0.87
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG22	17	0.87
(2,1136)	1:59:A:ILE:HD11	1:136:A:GLN:HB2	2	0.87
(2,1136)	1:59:A:ILE:HD11	1:136:A:GLN:HB2	13	0.87
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	18	0.87
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	2	0.87
(2,533)	1:143:A:MET:HE3	1:143:A:MET:HG2	3	0.87
(2,533)	1:143:A:MET:HE2	1:143:A:MET:HG2	10	0.87
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD13	4	0.87
(2,510)	1:122:A:LEU:HD13	1:92:A:LEU:HD13	6	0.87
(2,470)	1:53:A:VAL:HG23	1:62:A:LEU:H	9	0.87
(2,470)	1:53:A:VAL:HG22	1:62:A:LEU:H	19	0.87
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	16	0.87
(2,223)	1:155:A:THR:HA	1:139:A:ARG:HG2	16	0.87
(2,159)	1:66:A:THR:HG22	1:67:A:VAL:HG22	4	0.87
(2,159)	1:66:A:THR:HG22	1:67:A:VAL:HG23	11	0.87
(2,4945)	1:142:A:HIS:H	1:81:A:LEU:HD21	16	0.86
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	3	0.86
(2,4847)	1:76:A:TRP:H	1:71:A:TYR:HD1	17	0.86
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG22	5	0.86
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG22	19	0.86
(2,4815)	1:40:A:GLY:H	1:46:A:PHE:HE1	5	0.86
(2,4796)	1:29:A:LEU:HD21	1:30:A:GLU:H	12	0.86
(2,4796)	1:29:A:LEU:HD21	1:30:A:GLU:H	15	0.86
(2,4779)	1:13:A:THR:H	1:11:A:LEU:HG	15	0.86
(2,4744)	1:55:A:THR:HG22	1:62:A:LEU:H	6	0.86
(2,4744)	1:55:A:THR:HG23	1:62:A:LEU:H	10	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	16	0.86
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	13	0.86
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	12	0.86
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD11	2	0.86
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	11	0.86
(2,4505)	1:77:A:LEU:HD11	1:144:A:PHE:HA	10	0.86
(2,4469)	1:77:A:LEU:HD11	1:130:A:ALA:HB2	20	0.86
(2,4418)	1:77:A:LEU:HD13	1:144:A:PHE:H	6	0.86
(2,4414)	1:12:A:ILE:HB	1:11:A:LEU:HA	13	0.86
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	12	0.86
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	3	0.86
(2,4238)	1:31:A:ILE:HG22	1:123:A:GLU:HB3	19	0.86
(2,4155)	1:57:A:LEU:HG	1:60:A:PHE:HE1	19	0.86
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD13	6	0.86
(2,4119)	1:5:A:VAL:HG22	1:4:A:THR:HB	7	0.86
(2,4081)	1:115:A:ILE:HD13	1:109:A:ILE:H	4	0.86
(2,4081)	1:115:A:ILE:HD13	1:110:A:PHE:HE1	10	0.86
(2,4065)	1:81:A:LEU:HD11	1:135:A:ALA:H	5	0.86
(2,4057)	1:29:A:LEU:HD22	1:27:A:ASN:HB3	4	0.86
(2,4033)	1:59:A:ILE:HD11	1:138:A:GLU:H	9	0.86
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB2	7	0.86
(2,4004)	1:159:A:ILE:HD13	1:141:A:LEU:HG	9	0.86
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG13	17	0.86
(2,3810)	1:129:A:VAL:HG12	1:128:A:LYS:HD3	9	0.86
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	8	0.86
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	15	0.86
(2,3724)	1:89:A:VAL:HG12	1:128:A:LYS:H	7	0.86
(2,3660)	1:66:A:THR:HG21	1:52:A:ARG:HB2	8	0.86
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	16	0.86
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	11	0.86
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	19	0.86
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	3	0.86
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	12	0.86
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	7	0.86
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	1	0.86
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	2	0.86
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB1	2	0.86
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB1	13	0.86
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG21	5	0.86
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG23	20	0.86
(2,2337)	1:98:A:LEU:HD21	1:100:A:GLN:HB2	12	0.86
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG22	5	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG22	19	0.86
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG22	4	0.86
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	2	0.86
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	17	0.86
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	8	0.86
(2,1410)	1:48:A:THR:HG23	1:39:A:VAL:HG22	3	0.86
(2,1342)	1:59:A:ILE:HG23	1:136:A:GLN:HB2	4	0.86
(2,1312)	1:149:A:ILE:HG23	1:151:A:ASP:H	18	0.86
(2,1215)	1:29:A:LEU:HD22	1:30:A:GLU:H	9	0.86
(2,1215)	1:29:A:LEU:HD22	1:30:A:GLU:H	16	0.86
(2,1102)	1:11:A:LEU:HD22	1:12:A:ILE:H	4	0.86
(2,1068)	1:159:A:ILE:HD12	1:145:A:LEU:HD21	11	0.86
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	14	0.86
(2,533)	1:143:A:MET:HE1	1:143:A:MET:HG2	7	0.86
(2,510)	1:122:A:LEU:HD13	1:92:A:LEU:HD12	1	0.86
(2,470)	1:53:A:VAL:HG22	1:62:A:LEU:H	5	0.86
(2,470)	1:53:A:VAL:HG23	1:62:A:LEU:H	11	0.86
(2,443)	1:105:A:GLY:HA2	1:104:A:ARG:HB2	1	0.86
(2,223)	1:155:A:THR:HA	1:139:A:ARG:HG2	3	0.86
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD1	18	0.85
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG22	20	0.85
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	12	0.85
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	18	0.85
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	2	0.85
(2,4587)	1:133:A:PRO:HB3	1:135:A:ALA:H	16	0.85
(2,4558)	1:33:A:VAL:HG11	1:127:A:ASN:HD21	8	0.85
(2,4558)	1:33:A:VAL:HG12	1:127:A:ASN:HD21	17	0.85
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	7	0.85
(2,4527)	1:98:A:LEU:HD23	1:100:A:GLN:HG2	2	0.85
(2,4493)	1:29:A:LEU:HD22	1:130:A:ALA:HA	8	0.85
(2,4474)	1:77:A:LEU:HD13	1:126:A:ILE:HB	17	0.85
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	3	0.85
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	18	0.85
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	8	0.85
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	13	0.85
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	15	0.85
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	2	0.85
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	1	0.85
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	15	0.85
(2,4144)	1:64:A:GLU:HG2	1:54:A:LYS:HE3	19	0.85
(2,4135)	1:137:A:ASN:HB3	1:158:A:LYS:HG3	8	0.85
(2,4135)	1:137:A:ASN:HB3	1:158:A:LYS:HG3	9	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4119)	1:5:A:VAL:HG21	1:4:A:THR:HB	4	0.85
(2,4111)	1:96:A:ALA:HB3	1:99:A:ARG:HD2	13	0.85
(2,4096)	1:59:A:ILE:HG21	1:136:A:GLN:H	9	0.85
(2,4091)	1:31:A:ILE:HD13	1:126:A:ILE:HA	6	0.85
(2,4091)	1:31:A:ILE:HD13	1:126:A:ILE:HA	11	0.85
(2,4088)	1:31:A:ILE:HD11	1:123:A:GLU:HB2	4	0.85
(2,4088)	1:31:A:ILE:HD13	1:123:A:GLU:HB2	12	0.85
(2,4083)	1:126:A:ILE:HD13	1:74:A:PHE:HB3	20	0.85
(2,4071)	1:81:A:LEU:HD11	1:141:A:LEU:H	6	0.85
(2,4057)	1:29:A:LEU:HD21	1:27:A:ASN:HB3	3	0.85
(2,4051)	1:29:A:LEU:HD23	1:53:A:VAL:HB	17	0.85
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	9	0.85
(2,4033)	1:59:A:ILE:HD11	1:138:A:GLU:H	6	0.85
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	19	0.85
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	20	0.85
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD21	3	0.85
(2,3940)	1:115:A:ILE:HD11	1:109:A:ILE:HA	6	0.85
(2,3940)	1:115:A:ILE:HD13	1:110:A:PHE:HB3	10	0.85
(2,3890)	1:93:A:PRO:HG2	1:92:A:LEU:H	16	0.85
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD13	8	0.85
(2,3780)	1:122:A:LEU:HD12	1:123:A:GLU:H	11	0.85
(2,3776)	1:39:A:VAL:HG11	1:46:A:PHE:HZ	4	0.85
(2,3774)	1:126:A:ILE:HG21	1:123:A:GLU:HB3	13	0.85
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	16	0.85
(2,3762)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	9	0.85
(2,3762)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	12	0.85
(2,3758)	1:47:A:THR:HG21	1:36:A:PRO:HG2	1	0.85
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	9	0.85
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	11	0.85
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	12	0.85
(2,3658)	1:66:A:THR:HG23	1:52:A:ARG:HD3	2	0.85
(2,3658)	1:66:A:THR:HG23	1:52:A:ARG:HD2	13	0.85
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE3	15	0.85
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD12	6	0.85
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	1	0.85
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	10	0.85
(2,3421)	1:124:A:GLN:HE22	1:119:A:LYS:HD2	19	0.85
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	1	0.85
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	5	0.85
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	12	0.85
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	15	0.85
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	16	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	17	0.85
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	6	0.85
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	7	0.85
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG23	11	0.85
(2,2337)	1:98:A:LEU:HD23	1:100:A:GLN:HB2	19	0.85
(2,2270)	1:145:A:LEU:HD11	1:144:A:PHE:HD2	13	0.85
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG23	15	0.85
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	18	0.85
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	3	0.85
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	6	0.85
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	9	0.85
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	11	0.85
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	15	0.85
(2,1586)	1:141:A:LEU:HD13	1:144:A:PHE:HD2	12	0.85
(2,1372)	1:21:A:ALA:HB1	1:22:A:TYR:HE1	18	0.85
(2,1342)	1:59:A:ILE:HG22	1:136:A:GLN:HB2	10	0.85
(2,1342)	1:59:A:ILE:HG22	1:136:A:GLN:HB2	18	0.85
(2,1301)	1:31:A:ILE:HD13	1:130:A:ALA:HA	14	0.85
(2,1215)	1:29:A:LEU:HD21	1:30:A:GLU:H	7	0.85
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	8	0.85
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	11	0.85
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	20	0.85
(2,1102)	1:11:A:LEU:HD22	1:12:A:ILE:H	20	0.85
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD22	18	0.85
(2,533)	1:143:A:MET:HE3	1:143:A:MET:HG2	14	0.85
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD12	8	0.85
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD1	18	0.85
(2,76)	1:80:A:GLU:HA	1:83:A:ARG:HB2	5	0.85
(2,4796)	1:29:A:LEU:HD22	1:30:A:GLU:H	9	0.84
(2,4796)	1:29:A:LEU:HD22	1:30:A:GLU:H	16	0.84
(2,4775)	1:11:A:LEU:HB2	1:11:A:LEU:H	1	0.84
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG22	15	0.84
(2,4744)	1:55:A:THR:HG21	1:62:A:LEU:H	4	0.84
(2,4701)	1:44:A:GLY:H	1:46:A:PHE:HD1	5	0.84
(2,4653)	1:146:A:GLN:H	1:67:A:VAL:HG13	2	0.84
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG21	8	0.84
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD2	9	0.84
(2,4558)	1:33:A:VAL:HG12	1:127:A:ASN:HD21	9	0.84
(2,4527)	1:98:A:LEU:HD22	1:100:A:GLN:HG2	5	0.84
(2,4441)	1:33:A:VAL:HG12	1:122:A:LEU:H	1	0.84
(2,4441)	1:33:A:VAL:HG11	1:122:A:LEU:H	13	0.84
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD11	11	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4347)	1:38:A:THR:HG21	1:110:A:PHE:HZ	16	0.84
(2,4345)	1:145:A:LEU:HD13	1:141:A:LEU:HB3	9	0.84
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	13	0.84
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD13	9	0.84
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	7	0.84
(2,4267)	1:52:A:ARG:HD2	1:33:A:VAL:HA	7	0.84
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	8	0.84
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD12	2	0.84
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	11	0.84
(2,4116)	1:135:A:ALA:HB3	1:88:A:VAL:H	20	0.84
(2,4115)	1:135:A:ALA:HB2	1:136:A:GLN:HG3	1	0.84
(2,4091)	1:31:A:ILE:HD13	1:126:A:ILE:HA	2	0.84
(2,4088)	1:31:A:ILE:HD11	1:123:A:GLU:HB2	7	0.84
(2,4083)	1:126:A:ILE:HD12	1:74:A:PHE:HB3	5	0.84
(2,4059)	1:29:A:LEU:HD13	1:28:A:PHE:HD1	9	0.84
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	10	0.84
(2,4027)	1:152:A:LYS:HE3	1:77:A:LEU:H	17	0.84
(2,4004)	1:159:A:ILE:HD13	1:141:A:LEU:HG	19	0.84
(2,3786)	1:143:A:MET:HE3	1:149:A:ILE:HG22	12	0.84
(2,3781)	1:122:A:LEU:HD11	1:125:A:PHE:H	13	0.84
(2,3780)	1:122:A:LEU:HD11	1:123:A:GLU:H	5	0.84
(2,3780)	1:122:A:LEU:HD12	1:123:A:GLU:H	14	0.84
(2,3776)	1:39:A:VAL:HG13	1:46:A:PHE:HZ	6	0.84
(2,3762)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	16	0.84
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	3	0.84
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	10	0.84
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	20	0.84
(2,3660)	1:66:A:THR:HG22	1:52:A:ARG:HB2	14	0.84
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	1	0.84
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	18	0.84
(2,3540)	1:100:A:GLN:HE22	1:100:A:GLN:HA	13	0.84
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	9	0.84
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	7	0.84
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD21	4	0.84
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	7	0.84
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	1	0.84
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	9	0.84
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	10	0.84
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	19	0.84
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	1	0.84
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	3	0.84
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	4	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	5	0.84
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	9	0.84
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	10	0.84
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	12	0.84
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	13	0.84
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	16	0.84
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	17	0.84
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	20	0.84
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	10	0.84
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG21	11	0.84
(2,2348)	1:53:A:VAL:HG12	1:126:A:ILE:HG22	6	0.84
(2,2337)	1:98:A:LEU:HD23	1:100:A:GLN:HB2	9	0.84
(2,2337)	1:98:A:LEU:HD22	1:100:A:GLN:HB2	16	0.84
(2,2105)	1:14:A:LYS:HE3	1:13:A:THR:H	14	0.84
(2,1865)	1:98:A:LEU:HD13	1:94:A:GLY:HA3	17	0.84
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	12	0.84
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	4	0.84
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	12	0.84
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	13	0.84
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	16	0.84
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	20	0.84
(2,1586)	1:141:A:LEU:HD13	1:144:A:PHE:HD2	4	0.84
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	3	0.84
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	5	0.84
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	18	0.84
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG22	5	0.84
(2,1410)	1:48:A:THR:HG23	1:39:A:VAL:HG21	13	0.84
(2,1409)	1:39:A:VAL:HG21	1:37:A:GLN:HB2	8	0.84
(2,1409)	1:39:A:VAL:HG22	1:37:A:GLN:HB2	20	0.84
(2,1342)	1:59:A:ILE:HG21	1:136:A:GLN:HB2	8	0.84
(2,1301)	1:31:A:ILE:HD13	1:130:A:ALA:HA	5	0.84
(2,1301)	1:31:A:ILE:HD11	1:130:A:ALA:HA	11	0.84
(2,1301)	1:31:A:ILE:HD13	1:130:A:ALA:HA	13	0.84
(2,1215)	1:29:A:LEU:HD22	1:30:A:GLU:H	3	0.84
(2,1215)	1:29:A:LEU:HD22	1:30:A:GLU:H	13	0.84
(2,1215)	1:29:A:LEU:HD22	1:30:A:GLU:H	14	0.84
(2,1215)	1:29:A:LEU:HD22	1:30:A:GLU:H	20	0.84
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	2	0.84
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	6	0.84
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	9	0.84
(2,1136)	1:59:A:ILE:HD13	1:136:A:GLN:HB2	11	0.84
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	14	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1102)	1:11:A:LEU:HD22	1:12:A:ILE:H	17	0.84
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	16	0.84
(2,756)	1:122:A:LEU:HD22	1:74:A:PHE:HD1	16	0.84
(2,533)	1:143:A:MET:HE2	1:143:A:MET:HG2	5	0.84
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD12	13	0.84
(2,470)	1:53:A:VAL:HG21	1:62:A:LEU:H	10	0.84
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	11	0.84
(2,4943)	1:140:A:CYS:H	1:161:A:HIS:HD2	16	0.83
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD2	17	0.83
(2,4796)	1:29:A:LEU:HD21	1:30:A:GLU:H	7	0.83
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG22	12	0.83
(2,4744)	1:55:A:THR:HG22	1:62:A:LEU:H	17	0.83
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	1	0.83
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	6	0.83
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	7	0.83
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	8	0.83
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	14	0.83
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	20	0.83
(2,4659)	1:0:A:GLY:H	1:-1:A:VAL:HG13	6	0.83
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG13	11	0.83
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	5	0.83
(2,4536)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	3	0.83
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	17	0.83
(2,4493)	1:29:A:LEU:HD21	1:130:A:ALA:HA	19	0.83
(2,4441)	1:33:A:VAL:HG13	1:122:A:LEU:H	2	0.83
(2,4441)	1:33:A:VAL:HG11	1:122:A:LEU:H	9	0.83
(2,4441)	1:33:A:VAL:HG13	1:122:A:LEU:H	12	0.83
(2,4381)	1:87:A:VAL:HA	1:134:A:LEU:HD11	14	0.83
(2,4350)	1:145:A:LEU:HB3	1:145:A:LEU:HD23	14	0.83
(2,4332)	1:141:A:LEU:HD12	1:132:A:HIS:HB3	9	0.83
(2,4290)	1:54:A:LYS:HE2	1:64:A:GLU:HB2	17	0.83
(2,4260)	1:55:A:THR:HG22	1:63:A:LYS:HE3	9	0.83
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	1	0.83
(2,4197)	1:160:A:ARG:HD3	1:59:A:ILE:H	9	0.83
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	15	0.83
(2,4116)	1:135:A:ALA:HB1	1:88:A:VAL:H	7	0.83
(2,4091)	1:31:A:ILE:HD11	1:126:A:ILE:HA	7	0.83
(2,4091)	1:31:A:ILE:HD12	1:126:A:ILE:HA	13	0.83
(2,4088)	1:31:A:ILE:HD13	1:123:A:GLU:HB2	15	0.83
(2,4088)	1:31:A:ILE:HD13	1:123:A:GLU:HB2	18	0.83
(2,4083)	1:126:A:ILE:HD11	1:74:A:PHE:HB3	16	0.83
(2,4081)	1:115:A:ILE:HD12	1:109:A:ILE:H	3	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4081)	1:115:A:ILE:HD11	1:109:A:ILE:H	6	0.83
(2,4081)	1:115:A:ILE:HD12	1:109:A:ILE:H	7	0.83
(2,4081)	1:115:A:ILE:HD11	1:109:A:ILE:H	16	0.83
(2,4065)	1:81:A:LEU:HD12	1:135:A:ALA:H	6	0.83
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG23	13	0.83
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	10	0.83
(2,4033)	1:59:A:ILE:HD11	1:138:A:GLU:H	13	0.83
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	15	0.83
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB2	3	0.83
(2,3842)	1:159:A:ILE:HG23	1:142:A:HIS:HA	1	0.83
(2,3842)	1:159:A:ILE:HG22	1:142:A:HIS:HA	11	0.83
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG11	20	0.83
(2,3780)	1:122:A:LEU:HD12	1:123:A:GLU:H	1	0.83
(2,3780)	1:122:A:LEU:HD13	1:123:A:GLU:H	16	0.83
(2,3774)	1:126:A:ILE:HG22	1:123:A:GLU:HB3	8	0.83
(2,3774)	1:126:A:ILE:HG21	1:123:A:GLU:HB3	11	0.83
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	2	0.83
(2,3688)	1:150:A:ILE:HD13	1:73:A:ASP:H	8	0.83
(2,3688)	1:150:A:ILE:HD11	1:73:A:ASP:H	10	0.83
(2,3687)	1:150:A:ILE:HD12	1:144:A:PHE:H	19	0.83
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	11	0.83
(2,3614)	1:32:A:ASP:HB2	1:123:A:GLU:HB3	14	0.83
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG21	16	0.83
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE3	7	0.83
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	1	0.83
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	13	0.83
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	17	0.83
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD21	17	0.83
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	6	0.83
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB2	19	0.83
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	2	0.83
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	8	0.83
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	11	0.83
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	14	0.83
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	15	0.83
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	19	0.83
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	5	0.83
(2,2542)	1:85:A:SER:HB2	1:87:A:VAL:H	9	0.83
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	1	0.83
(2,2372)	1:33:A:VAL:HG22	1:74:A:PHE:HD2	14	0.83
(2,2314)	1:77:A:LEU:HD21	1:125:A:PHE:HZ	17	0.83
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	1	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	7	0.83
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	10	0.83
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	7	0.83
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	13	0.83
(2,1390)	1:40:A:GLY:HA3	1:41:A:VAL:HG21	9	0.83
(2,1342)	1:59:A:ILE:HG22	1:136:A:GLN:HB2	1	0.83
(2,1342)	1:59:A:ILE:HG21	1:136:A:GLN:HB2	7	0.83
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	17	0.83
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	19	0.83
(2,1136)	1:59:A:ILE:HD11	1:136:A:GLN:HB2	6	0.83
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	10	0.83
(2,1110)	1:148:A:GLU:HG3	1:149:A:ILE:HD11	19	0.83
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	11	0.83
(2,533)	1:143:A:MET:HE2	1:143:A:MET:HG2	11	0.83
(2,510)	1:122:A:LEU:HD13	1:92:A:LEU:HD12	2	0.83
(2,510)	1:122:A:LEU:HD13	1:92:A:LEU:HD13	9	0.83
(2,4796)	1:29:A:LEU:HD22	1:30:A:GLU:H	3	0.82
(2,4796)	1:29:A:LEU:HD22	1:30:A:GLU:H	13	0.82
(2,4796)	1:29:A:LEU:HD22	1:30:A:GLU:H	14	0.82
(2,4796)	1:29:A:LEU:HD22	1:30:A:GLU:H	20	0.82
(2,4744)	1:55:A:THR:HG22	1:62:A:LEU:H	13	0.82
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	13	0.82
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	17	0.82
(2,4581)	1:106:A:ASP:HB3	1:105:A:GLY:HA2	7	0.82
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	11	0.82
(2,4570)	1:149:A:ILE:HD13	1:148:A:GLU:HA	13	0.82
(2,4570)	1:149:A:ILE:HG22	1:148:A:GLU:HA	18	0.82
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	1	0.82
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	15	0.82
(2,4551)	1:34:A:SER:HB3	1:119:A:LYS:HE2	12	0.82
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	9	0.82
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	13	0.82
(2,4506)	1:77:A:LEU:HD13	1:81:A:LEU:HA	19	0.82
(2,4469)	1:77:A:LEU:HD13	1:130:A:ALA:HB2	12	0.82
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	7	0.82
(2,4197)	1:160:A:ARG:HD3	1:59:A:ILE:H	5	0.82
(2,4197)	1:160:A:ARG:HD3	1:59:A:ILE:H	14	0.82
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	2	0.82
(2,4116)	1:135:A:ALA:HB2	1:88:A:VAL:H	17	0.82
(2,4115)	1:135:A:ALA:HB1	1:136:A:GLN:HG3	6	0.82
(2,4115)	1:135:A:ALA:HB3	1:136:A:GLN:HG3	18	0.82
(2,4088)	1:31:A:ILE:HD13	1:123:A:GLU:HB2	2	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4083)	1:126:A:ILE:HD12	1:74:A:PHE:HB3	15	0.82
(2,4081)	1:115:A:ILE:HD13	1:109:A:ILE:H	1	0.82
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG21	12	0.82
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG22	18	0.82
(2,4023)	1:12:A:ILE:HD13	1:10:A:ARG:HD3	2	0.82
(2,3942)	1:115:A:ILE:HG22	1:119:A:LYS:HE2	19	0.82
(2,3940)	1:115:A:ILE:HD12	1:109:A:ILE:HA	19	0.82
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD13	19	0.82
(2,3780)	1:122:A:LEU:HD11	1:123:A:GLU:H	18	0.82
(2,3780)	1:122:A:LEU:HD13	1:123:A:GLU:H	19	0.82
(2,3754)	1:145:A:LEU:HA	1:53:A:VAL:HG12	3	0.82
(2,3754)	1:145:A:LEU:HA	1:53:A:VAL:HG11	13	0.82
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	5	0.82
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	7	0.82
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	16	0.82
(2,3723)	1:89:A:VAL:HG12	1:82:A:GLU:H	8	0.82
(2,3688)	1:150:A:ILE:HD11	1:73:A:ASP:H	14	0.82
(2,3657)	1:66:A:THR:HG22	1:68:A:ARG:H	17	0.82
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD23	15	0.82
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	7	0.82
(2,3589)	1:107:A:ASP:H	1:106:A:ASP:HB3	10	0.82
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	8	0.82
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG22	1	0.82
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD11	1	0.82
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD11	18	0.82
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	11	0.82
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	2	0.82
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	19	0.82
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	6	0.82
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	12	0.82
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	9	0.82
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	11	0.82
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB2	6	0.82
(2,2542)	1:85:A:SER:HB2	1:87:A:VAL:H	20	0.82
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG23	2	0.82
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG23	6	0.82
(2,2337)	1:98:A:LEU:HD21	1:100:A:GLN:HB2	20	0.82
(2,1897)	1:115:A:ILE:HD13	1:116:A:GLU:HA	19	0.82
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	3	0.82
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	14	0.82
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	19	0.82
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	2	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	3	0.82
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	5	0.82
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	9	0.82
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	17	0.82
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	14	0.82
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	15	0.82
(2,1409)	1:39:A:VAL:HG22	1:37:A:GLN:HB2	6	0.82
(2,1409)	1:39:A:VAL:HG23	1:37:A:GLN:HB2	17	0.82
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG21	20	0.82
(2,1301)	1:31:A:ILE:HD12	1:130:A:ALA:HA	8	0.82
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG22	9	0.82
(2,1215)	1:29:A:LEU:HD23	1:30:A:GLU:H	4	0.82
(2,1215)	1:29:A:LEU:HD23	1:30:A:GLU:H	17	0.82
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	12	0.82
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	16	0.82
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	18	0.82
(2,628)	1:129:A:VAL:HG13	1:77:A:LEU:HD13	10	0.82
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	15	0.82
(2,533)	1:143:A:MET:HE3	1:143:A:MET:HG2	13	0.82
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	8	0.82
(2,224)	1:155:A:THR:HG23	1:139:A:ARG:HG2	13	0.82
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	19	0.81
(2,4744)	1:55:A:THR:HG22	1:62:A:LEU:H	1	0.81
(2,4733)	1:111:A:ASP:H	1:114:A:PHE:HE2	19	0.81
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	3	0.81
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	9	0.81
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	15	0.81
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD12	13	0.81
(2,4564)	1:89:A:VAL:HG13	1:88:A:VAL:HA	18	0.81
(2,4558)	1:33:A:VAL:HG12	1:127:A:ASN:HD21	11	0.81
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	8	0.81
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD3	1	0.81
(2,4469)	1:77:A:LEU:HD11	1:130:A:ALA:HB2	9	0.81
(2,4469)	1:77:A:LEU:HD11	1:130:A:ALA:HB3	15	0.81
(2,4441)	1:33:A:VAL:HG13	1:122:A:LEU:H	19	0.81
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	16	0.81
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	1	0.81
(2,4298)	1:93:A:PRO:HD3	1:74:A:PHE:HD2	7	0.81
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	5	0.81
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	14	0.81
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	20	0.81
(2,4241)	1:53:A:VAL:HG22	1:31:A:ILE:HG21	2	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4240)	1:31:A:ILE:HG22	1:52:A:ARG:HB2	16	0.81
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	5	0.81
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	11	0.81
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	16	0.81
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	8	0.81
(2,4144)	1:64:A:GLU:HG2	1:54:A:LYS:HE3	13	0.81
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	4	0.81
(2,4135)	1:137:A:ASN:HB3	1:134:A:LEU:HB2	13	0.81
(2,4083)	1:126:A:ILE:HD11	1:74:A:PHE:HB3	3	0.81
(2,4083)	1:126:A:ILE:HD11	1:74:A:PHE:HB3	14	0.81
(2,4051)	1:29:A:LEU:HD21	1:145:A:LEU:HG	12	0.81
(2,4037)	1:122:A:LEU:HD13	1:33:A:VAL:HG21	3	0.81
(2,4004)	1:159:A:ILE:HD13	1:141:A:LEU:HG	7	0.81
(2,3989)	1:26:A:SER:HB2	1:24:A:PRO:HB3	11	0.81
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	1	0.81
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	16	0.81
(2,3831)	1:128:A:LYS:HG2	1:129:A:VAL:HG12	9	0.81
(2,3781)	1:122:A:LEU:HD12	1:125:A:PHE:H	9	0.81
(2,3780)	1:122:A:LEU:HD11	1:123:A:GLU:H	4	0.81
(2,3780)	1:122:A:LEU:HD11	1:123:A:GLU:H	13	0.81
(2,3780)	1:122:A:LEU:HD12	1:123:A:GLU:H	17	0.81
(2,3764)	1:53:A:VAL:HG21	1:30:A:GLU:HG3	7	0.81
(2,3764)	1:53:A:VAL:HG23	1:30:A:GLU:HG3	13	0.81
(2,3687)	1:150:A:ILE:HD11	1:144:A:PHE:H	1	0.81
(2,3657)	1:66:A:THR:HG22	1:68:A:ARG:H	2	0.81
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG22	9	0.81
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	5	0.81
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	18	0.81
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	1	0.81
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	14	0.81
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	5	0.81
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	9	0.81
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	19	0.81
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	7	0.81
(2,2542)	1:85:A:SER:HB2	1:87:A:VAL:H	19	0.81
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	20	0.81
(2,2131)	1:29:A:LEU:HD22	1:136:A:GLN:HE21	3	0.81
(2,1897)	1:115:A:ILE:HD12	1:116:A:GLU:HA	20	0.81
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG22	1	0.81
(2,1638)	1:15:A:PRO:HD3	1:15:A:PRO:HB3	5	0.81
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	4	0.81
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	18	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	9	0.81
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	16	0.81
(2,1409)	1:39:A:VAL:HG21	1:37:A:GLN:HB2	1	0.81
(2,1409)	1:39:A:VAL:HG23	1:37:A:GLN:HB2	2	0.81
(2,1409)	1:39:A:VAL:HG22	1:37:A:GLN:HB2	3	0.81
(2,1409)	1:39:A:VAL:HG22	1:37:A:GLN:HB2	5	0.81
(2,1409)	1:39:A:VAL:HG21	1:37:A:GLN:HB2	9	0.81
(2,1409)	1:39:A:VAL:HG21	1:37:A:GLN:HB2	10	0.81
(2,1409)	1:39:A:VAL:HG21	1:37:A:GLN:HB2	15	0.81
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG23	10	0.81
(2,1301)	1:31:A:ILE:HD11	1:130:A:ALA:HA	10	0.81
(2,1301)	1:31:A:ILE:HD11	1:130:A:ALA:HA	15	0.81
(2,1215)	1:29:A:LEU:HD23	1:30:A:GLU:H	6	0.81
(2,1215)	1:29:A:LEU:HD22	1:30:A:GLU:H	8	0.81
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	5	0.81
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	3	0.81
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	4	0.81
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	14	0.81
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	2	0.81
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	11	0.81
(2,346)	1:89:A:VAL:HG13	1:88:A:VAL:HA	18	0.81
(2,76)	1:80:A:GLU:HA	1:83:A:ARG:HB2	12	0.81
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	1	0.8
(2,4796)	1:29:A:LEU:HD23	1:30:A:GLU:H	4	0.8
(2,4796)	1:29:A:LEU:HD23	1:30:A:GLU:H	17	0.8
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	5	0.8
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	10	0.8
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	8	0.8
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG12	12	0.8
(2,4608)	1:79:A:SER:H	1:77:A:LEU:HD22	11	0.8
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	12	0.8
(2,4566)	1:157:A:SER:HB2	1:139:A:ARG:HD2	13	0.8
(2,4564)	1:89:A:VAL:HG11	1:88:A:VAL:HA	4	0.8
(2,4558)	1:33:A:VAL:HG11	1:127:A:ASN:HD21	7	0.8
(2,4556)	1:58:A:PRO:HD2	1:136:A:GLN:HA	5	0.8
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	3	0.8
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	5	0.8
(2,4506)	1:77:A:LEU:HD12	1:81:A:LEU:HA	11	0.8
(2,4441)	1:33:A:VAL:HG13	1:122:A:LEU:H	10	0.8
(2,4423)	1:33:A:VAL:HG21	1:122:A:LEU:HG	10	0.8
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	10	0.8
(2,4298)	1:93:A:PRO:HD3	1:74:A:PHE:HD2	9	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	10	0.8
(2,4260)	1:55:A:THR:HG21	1:63:A:LYS:HE3	17	0.8
(2,4244)	1:35:A:ASN:HB3	1:34:A:SER:HB2	8	0.8
(2,4155)	1:57:A:LEU:HG	1:60:A:PHE:HE2	20	0.8
(2,4115)	1:135:A:ALA:HB1	1:136:A:GLN:HG3	13	0.8
(2,4115)	1:135:A:ALA:HB2	1:136:A:GLN:HG3	20	0.8
(2,4083)	1:126:A:ILE:HD13	1:74:A:PHE:HB3	2	0.8
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	11	0.8
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	16	0.8
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG22	2	0.8
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG12	1	0.8
(2,4023)	1:12:A:ILE:HD11	1:10:A:ARG:HD2	4	0.8
(2,3942)	1:115:A:ILE:HG22	1:119:A:LYS:HE2	1	0.8
(2,3942)	1:115:A:ILE:HG21	1:119:A:LYS:HE2	7	0.8
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	18	0.8
(2,3842)	1:159:A:ILE:HG21	1:136:A:GLN:HA	14	0.8
(2,3842)	1:159:A:ILE:HG23	1:136:A:GLN:HA	20	0.8
(2,3803)	1:129:A:VAL:HG22	1:125:A:PHE:HD2	3	0.8
(2,3780)	1:122:A:LEU:HD11	1:123:A:GLU:H	8	0.8
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	4	0.8
(2,3724)	1:89:A:VAL:HG13	1:128:A:LYS:H	18	0.8
(2,3688)	1:150:A:ILE:HD13	1:73:A:ASP:H	12	0.8
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	6	0.8
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	12	0.8
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG23	16	0.8
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	11	0.8
(2,3540)	1:100:A:GLN:HE22	1:100:A:GLN:HA	10	0.8
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG23	20	0.8
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD13	15	0.8
(2,3423)	1:125:A:PHE:H	1:123:A:GLU:HG2	19	0.8
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	18	0.8
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	1	0.8
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	17	0.8
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	8	0.8
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	10	0.8
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	11	0.8
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD23	20	0.8
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	13	0.8
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	19	0.8
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	9	0.8
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG21	7	0.8
(2,2337)	1:98:A:LEU:HD21	1:100:A:GLN:HB2	1	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2337)	1:98:A:LEU:HD21	1:100:A:GLN:HB2	3	0.8
(2,2337)	1:98:A:LEU:HD23	1:100:A:GLN:HB2	8	0.8
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	4	0.8
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	19	0.8
(2,2181)	1:53:A:VAL:HG13	1:31:A:ILE:HG12	2	0.8
(2,1865)	1:98:A:LEU:HD11	1:94:A:GLY:HA3	16	0.8
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	6	0.8
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	7	0.8
(2,1613)	1:50:A:GLU:HG2	1:68:A:ARG:HG3	16	0.8
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	2	0.8
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	6	0.8
(2,1409)	1:39:A:VAL:HG21	1:37:A:GLN:HB2	16	0.8
(2,1409)	1:39:A:VAL:HG22	1:37:A:GLN:HB2	18	0.8
(2,1409)	1:39:A:VAL:HG22	1:37:A:GLN:HB2	19	0.8
(2,1342)	1:59:A:ILE:HG23	1:136:A:GLN:HB2	6	0.8
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG23	9	0.8
(2,1312)	1:149:A:ILE:HG22	1:151:A:ASP:H	11	0.8
(2,1301)	1:31:A:ILE:HD11	1:130:A:ALA:HA	6	0.8
(2,1301)	1:31:A:ILE:HD13	1:130:A:ALA:HA	17	0.8
(2,1215)	1:29:A:LEU:HD21	1:30:A:GLU:H	2	0.8
(2,1215)	1:29:A:LEU:HD22	1:30:A:GLU:H	10	0.8
(2,1215)	1:29:A:LEU:HD21	1:30:A:GLU:H	18	0.8
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	3	0.8
(2,1147)	1:122:A:LEU:HD12	1:93:A:PRO:HB3	19	0.8
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG13	4	0.8
(2,533)	1:143:A:MET:HE2	1:143:A:MET:HG2	2	0.8
(2,533)	1:143:A:MET:HE2	1:143:A:MET:HG2	9	0.8
(2,533)	1:143:A:MET:HE3	1:143:A:MET:HG2	20	0.8
(2,346)	1:89:A:VAL:HG11	1:88:A:VAL:HA	4	0.8
(2,223)	1:155:A:THR:HA	1:139:A:ARG:HG2	13	0.8
(2,76)	1:80:A:GLU:HA	1:83:A:ARG:HB2	3	0.8
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	14	0.79
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	15	0.79
(2,4943)	1:140:A:CYS:H	1:161:A:HIS:HD2	11	0.79
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	16	0.79
(2,4847)	1:76:A:TRP:H	1:71:A:TYR:HD1	15	0.79
(2,4796)	1:29:A:LEU:HD23	1:30:A:GLU:H	6	0.79
(2,4796)	1:29:A:LEU:HD22	1:30:A:GLU:H	8	0.79
(2,4744)	1:55:A:THR:HG21	1:62:A:LEU:H	19	0.79
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG23	19	0.79
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	20	0.79
(2,4570)	1:149:A:ILE:HD12	1:148:A:GLU:HA	14	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4564)	1:89:A:VAL:HG13	1:88:A:VAL:HA	2	0.79
(2,4564)	1:89:A:VAL:HG11	1:88:A:VAL:HA	16	0.79
(2,4558)	1:33:A:VAL:HG13	1:127:A:ASN:HD21	3	0.79
(2,4556)	1:58:A:PRO:HD2	1:136:A:GLN:HA	4	0.79
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD21	5	0.79
(2,4506)	1:77:A:LEU:HD12	1:81:A:LEU:HA	10	0.79
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	7	0.79
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	12	0.79
(2,4474)	1:77:A:LEU:HD11	1:126:A:ILE:HB	5	0.79
(2,4441)	1:33:A:VAL:HG13	1:122:A:LEU:H	6	0.79
(2,4398)	1:62:A:LEU:HD12	1:61:A:LYS:HD3	4	0.79
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	17	0.79
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	1	0.79
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	12	0.79
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	19	0.79
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	20	0.79
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	14	0.79
(2,4115)	1:135:A:ALA:HB2	1:136:A:GLN:HG3	2	0.79
(2,4115)	1:135:A:ALA:HB2	1:136:A:GLN:HG3	11	0.79
(2,4065)	1:81:A:LEU:HD11	1:135:A:ALA:H	9	0.79
(2,4065)	1:81:A:LEU:HD11	1:135:A:ALA:H	10	0.79
(2,4057)	1:29:A:LEU:HD22	1:27:A:ASN:HB3	11	0.79
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	19	0.79
(2,4037)	1:122:A:LEU:HD13	1:33:A:VAL:HG21	19	0.79
(2,4033)	1:59:A:ILE:HD11	1:138:A:GLU:H	2	0.79
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	14	0.79
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB2	2	0.79
(2,3942)	1:115:A:ILE:HG21	1:119:A:LYS:HE2	5	0.79
(2,3780)	1:122:A:LEU:HD12	1:123:A:GLU:H	6	0.79
(2,3780)	1:122:A:LEU:HD11	1:123:A:GLU:H	7	0.79
(2,3774)	1:126:A:ILE:HG23	1:123:A:GLU:HB3	10	0.79
(2,3764)	1:53:A:VAL:HG21	1:30:A:GLU:HG3	19	0.79
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG21	9	0.79
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG23	12	0.79
(2,3723)	1:89:A:VAL:HG13	1:82:A:GLU:H	5	0.79
(2,3723)	1:89:A:VAL:HG12	1:82:A:GLU:H	9	0.79
(2,3687)	1:150:A:ILE:HD11	1:144:A:PHE:H	3	0.79
(2,3660)	1:66:A:THR:HG23	1:52:A:ARG:HB2	1	0.79
(2,3660)	1:66:A:THR:HG21	1:52:A:ARG:HB2	4	0.79
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD21	12	0.79
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	9	0.79
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG21	8	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	10	0.79
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	6	0.79
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	14	0.79
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD12	12	0.79
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD13	16	0.79
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	4	0.79
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	17	0.79
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	1	0.79
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	3	0.79
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	6	0.79
(2,2968)	1:1:A:THR:H	1:1:A:THR:HG23	8	0.79
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	8	0.79
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	9	0.79
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	6	0.79
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG22	17	0.79
(2,2337)	1:98:A:LEU:HD23	1:100:A:GLN:HB2	11	0.79
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	5	0.79
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	6	0.79
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	7	0.79
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	9	0.79
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD11	3	0.79
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	20	0.79
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG21	4	0.79
(2,1586)	1:141:A:LEU:HD11	1:144:A:PHE:HD2	7	0.79
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	4	0.79
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	19	0.79
(2,1409)	1:39:A:VAL:HG22	1:37:A:GLN:HB2	7	0.79
(2,1342)	1:59:A:ILE:HG21	1:136:A:GLN:HB2	2	0.79
(2,1342)	1:59:A:ILE:HG21	1:136:A:GLN:HB2	9	0.79
(2,1342)	1:59:A:ILE:HG23	1:136:A:GLN:HB2	17	0.79
(2,1301)	1:31:A:ILE:HD11	1:130:A:ALA:HA	2	0.79
(2,1301)	1:31:A:ILE:HD12	1:130:A:ALA:HA	3	0.79
(2,1301)	1:31:A:ILE:HD13	1:130:A:ALA:HA	20	0.79
(2,1166)	1:45:A:ARG:HA	1:45:A:ARG:HD3	1	0.79
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	13	0.79
(2,1110)	1:148:A:GLU:HG3	1:149:A:ILE:HD12	12	0.79
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	7	0.79
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	2	0.79
(2,756)	1:122:A:LEU:HD23	1:74:A:PHE:HD1	5	0.79
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	5	0.79
(2,533)	1:143:A:MET:HE2	1:143:A:MET:HG2	4	0.79
(2,533)	1:143:A:MET:HE3	1:143:A:MET:HG2	6	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,533)	1:143:A:MET:HE3	1:143:A:MET:HG2	16	0.79
(2,533)	1:143:A:MET:HE2	1:143:A:MET:HG2	19	0.79
(2,346)	1:89:A:VAL:HG13	1:88:A:VAL:HA	2	0.79
(2,346)	1:89:A:VAL:HG11	1:88:A:VAL:HA	16	0.79
(2,270)	1:109:A:ILE:HD12	1:110:A:PHE:H	7	0.79
(2,60)	1:81:A:LEU:HA	1:85:A:SER:HB2	5	0.79
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE3	18	0.78
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG23	14	0.78
(2,4796)	1:29:A:LEU:HD21	1:30:A:GLU:H	2	0.78
(2,4796)	1:29:A:LEU:HD22	1:30:A:GLU:H	10	0.78
(2,4796)	1:29:A:LEU:HD21	1:30:A:GLU:H	18	0.78
(2,4785)	1:23:A:GLY:H	1:24:A:PRO:HB3	14	0.78
(2,4785)	1:23:A:GLY:H	1:24:A:PRO:HB3	18	0.78
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	2	0.78
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	4	0.78
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	11	0.78
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	5	0.78
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG22	12	0.78
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	4	0.78
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	8	0.78
(2,4570)	1:149:A:ILE:HD11	1:148:A:GLU:HA	17	0.78
(2,4564)	1:89:A:VAL:HG13	1:88:A:VAL:HA	1	0.78
(2,4558)	1:33:A:VAL:HG11	1:127:A:ASN:HD21	6	0.78
(2,4558)	1:33:A:VAL:HG13	1:127:A:ASN:HD21	18	0.78
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	10	0.78
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	18	0.78
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD11	13	0.78
(2,4475)	1:141:A:LEU:HD12	1:77:A:LEU:HD12	5	0.78
(2,4474)	1:77:A:LEU:HD13	1:126:A:ILE:HB	9	0.78
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	14	0.78
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	19	0.78
(2,4332)	1:141:A:LEU:HD12	1:132:A:HIS:HB3	13	0.78
(2,4298)	1:93:A:PRO:HD3	1:74:A:PHE:HD2	6	0.78
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	10	0.78
(2,4260)	1:55:A:THR:HG21	1:63:A:LYS:HE3	12	0.78
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	7	0.78
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	16	0.78
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	3	0.78
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	17	0.78
(2,4111)	1:96:A:ALA:HB3	1:99:A:ARG:HD2	9	0.78
(2,4071)	1:81:A:LEU:HD13	1:141:A:LEU:H	16	0.78
(2,4057)	1:29:A:LEU:HD21	1:136:A:GLN:HG2	10	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4057)	1:29:A:LEU:HD21	1:27:A:ASN:HB3	20	0.78
(2,4051)	1:29:A:LEU:HD22	1:145:A:LEU:HG	9	0.78
(2,4051)	1:29:A:LEU:HD22	1:53:A:VAL:HB	13	0.78
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	1	0.78
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	4	0.78
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	12	0.78
(2,4004)	1:159:A:ILE:HD11	1:141:A:LEU:HG	12	0.78
(2,3942)	1:115:A:ILE:HG23	1:119:A:LYS:HE2	4	0.78
(2,3842)	1:159:A:ILE:HG23	1:142:A:HIS:HA	13	0.78
(2,3803)	1:129:A:VAL:HG21	1:125:A:PHE:HD2	10	0.78
(2,3780)	1:122:A:LEU:HD12	1:123:A:GLU:H	9	0.78
(2,3780)	1:122:A:LEU:HD13	1:123:A:GLU:H	12	0.78
(2,3780)	1:122:A:LEU:HD11	1:123:A:GLU:H	15	0.78
(2,3774)	1:126:A:ILE:HG21	1:123:A:GLU:HB3	19	0.78
(2,3695)	1:150:A:ILE:HG23	1:149:A:ILE:HG22	12	0.78
(2,3687)	1:150:A:ILE:HD12	1:144:A:PHE:H	15	0.78
(2,3660)	1:66:A:THR:HG21	1:52:A:ARG:HB2	11	0.78
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD23	4	0.78
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	20	0.78
(2,3540)	1:100:A:GLN:HE22	1:100:A:GLN:HA	16	0.78
(2,3540)	1:100:A:GLN:HE22	1:100:A:GLN:HA	19	0.78
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG23	18	0.78
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE1	19	0.78
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD12	4	0.78
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	9	0.78
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	15	0.78
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG22	13	0.78
(2,2372)	1:33:A:VAL:HG23	1:74:A:PHE:HD2	6	0.78
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	17	0.78
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	18	0.78
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG21	16	0.78
(2,2014)	1:134:A:LEU:HD13	1:137:A:ASN:HD22	16	0.78
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD13	12	0.78
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD12	13	0.78
(2,1965)	1:149:A:ILE:HD13	1:150:A:ILE:HA	15	0.78
(2,1953)	1:145:A:LEU:HD23	1:141:A:LEU:HB3	10	0.78
(2,1897)	1:115:A:ILE:HD13	1:116:A:GLU:HA	18	0.78
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG21	9	0.78
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	4	0.78
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	13	0.78
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	19	0.78
(2,1409)	1:39:A:VAL:HG21	1:37:A:GLN:HB2	11	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG21	12	0.78
(2,1301)	1:31:A:ILE:HD12	1:130:A:ALA:HA	4	0.78
(2,1301)	1:31:A:ILE:HD12	1:130:A:ALA:HA	7	0.78
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG21	19	0.78
(2,1215)	1:29:A:LEU:HD21	1:30:A:GLU:H	19	0.78
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	1	0.78
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	12	0.78
(2,1102)	1:11:A:LEU:HD22	1:12:A:ILE:H	16	0.78
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	9	0.78
(2,533)	1:143:A:MET:HE1	1:143:A:MET:HG2	15	0.78
(2,523)	1:122:A:LEU:HD11	1:125:A:PHE:HZ	15	0.78
(2,346)	1:89:A:VAL:HG13	1:88:A:VAL:HA	1	0.78
(2,332)	1:15:A:PRO:HD3	1:14:A:LYS:HB2	12	0.78
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	11	0.78
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	3	0.77
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	11	0.77
(2,4945)	1:142:A:HIS:H	1:81:A:LEU:HD21	7	0.77
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	17	0.77
(2,4744)	1:55:A:THR:HG22	1:62:A:LEU:H	5	0.77
(2,4703)	1:28:A:PHE:H	1:30:A:GLU:H	15	0.77
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	6	0.77
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	6	0.77
(2,4564)	1:89:A:VAL:HG11	1:88:A:VAL:HA	5	0.77
(2,4564)	1:89:A:VAL:HG11	1:88:A:VAL:HA	14	0.77
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	10	0.77
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	20	0.77
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD13	18	0.77
(2,4493)	1:29:A:LEU:HD22	1:130:A:ALA:HA	5	0.77
(2,4492)	1:31:A:ILE:HD11	1:130:A:ALA:HA	6	0.77
(2,4492)	1:31:A:ILE:HD13	1:130:A:ALA:HA	17	0.77
(2,4474)	1:77:A:LEU:HD12	1:126:A:ILE:HB	3	0.77
(2,4435)	1:59:A:ILE:HD13	1:159:A:ILE:HG12	11	0.77
(2,4435)	1:59:A:ILE:HD12	1:159:A:ILE:HG12	20	0.77
(2,4298)	1:93:A:PRO:HD3	1:74:A:PHE:HD2	12	0.77
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	14	0.77
(2,4154)	1:57:A:LEU:HD21	1:29:A:LEU:HD21	9	0.77
(2,4151)	1:57:A:LEU:HD23	1:131:A:GLY:HA3	4	0.77
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	20	0.77
(2,4115)	1:135:A:ALA:HB3	1:136:A:GLN:HG3	12	0.77
(2,4115)	1:135:A:ALA:HB1	1:136:A:GLN:HG3	17	0.77
(2,4096)	1:59:A:ILE:HG22	1:136:A:GLN:H	3	0.77
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	14	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG22	10	0.77
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	5	0.77
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	5	0.77
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	14	0.77
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	8	0.77
(2,3942)	1:115:A:ILE:HG22	1:119:A:LYS:HE2	13	0.77
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG12	20	0.77
(2,3842)	1:159:A:ILE:HG21	1:136:A:GLN:HA	18	0.77
(2,3764)	1:53:A:VAL:HG22	1:30:A:GLU:HG3	2	0.77
(2,3723)	1:89:A:VAL:HG11	1:82:A:GLU:H	20	0.77
(2,3687)	1:150:A:ILE:HD11	1:144:A:PHE:H	5	0.77
(2,3687)	1:150:A:ILE:HD13	1:144:A:PHE:H	10	0.77
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	19	0.77
(2,3540)	1:100:A:GLN:HE22	1:100:A:GLN:HA	7	0.77
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE2	12	0.77
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD12	13	0.77
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	13	0.77
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	14	0.77
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	19	0.77
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	20	0.77
(2,3055)	1:16:A:GLN:HB2	1:16:A:GLN:H	20	0.77
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	5	0.77
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	14	0.77
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD23	16	0.77
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD22	18	0.77
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	11	0.77
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB3	11	0.77
(2,2542)	1:85:A:SER:HB2	1:87:A:VAL:H	7	0.77
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	19	0.77
(2,2372)	1:33:A:VAL:HG21	1:74:A:PHE:HD2	1	0.77
(2,2372)	1:33:A:VAL:HG23	1:74:A:PHE:HD2	16	0.77
(2,2337)	1:98:A:LEU:HD22	1:100:A:GLN:HB2	7	0.77
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	13	0.77
(2,2210)	1:77:A:LEU:HD11	1:144:A:PHE:HD1	18	0.77
(2,2078)	1:155:A:THR:HG21	1:139:A:ARG:HA	12	0.77
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD13	2	0.77
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD11	8	0.77
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD13	17	0.77
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	6	0.77
(2,1586)	1:141:A:LEU:HD11	1:144:A:PHE:HD2	5	0.77
(2,1586)	1:141:A:LEU:HD11	1:144:A:PHE:HD2	9	0.77
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	17	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1476)	1:15:A:PRO:HA	1:15:A:PRO:HG2	20	0.77
(2,1409)	1:39:A:VAL:HG23	1:37:A:GLN:HB2	4	0.77
(2,1409)	1:39:A:VAL:HG21	1:37:A:GLN:HB2	13	0.77
(2,1342)	1:59:A:ILE:HG22	1:136:A:GLN:HB2	13	0.77
(2,1301)	1:31:A:ILE:HD12	1:130:A:ALA:HA	1	0.77
(2,1301)	1:31:A:ILE:HD12	1:130:A:ALA:HA	19	0.77
(2,1215)	1:29:A:LEU:HD21	1:30:A:GLU:H	1	0.77
(2,1102)	1:11:A:LEU:HD22	1:12:A:ILE:H	8	0.77
(2,1102)	1:11:A:LEU:HD23	1:12:A:ILE:H	11	0.77
(2,1102)	1:11:A:LEU:HD23	1:12:A:ILE:H	12	0.77
(2,480)	1:53:A:VAL:HG21	1:31:A:ILE:HD11	6	0.77
(2,480)	1:53:A:VAL:HG23	1:31:A:ILE:HD13	20	0.77
(2,346)	1:89:A:VAL:HG11	1:88:A:VAL:HA	5	0.77
(2,346)	1:89:A:VAL:HG11	1:88:A:VAL:HA	14	0.77
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	14	0.77
(2,76)	1:80:A:GLU:HA	1:83:A:ARG:HB2	4	0.77
(2,76)	1:80:A:GLU:HA	1:83:A:ARG:HB2	20	0.77
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	5	0.76
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	19	0.76
(2,4785)	1:23:A:GLY:H	1:24:A:PRO:HB3	6	0.76
(2,4785)	1:23:A:GLY:H	1:24:A:PRO:HB3	13	0.76
(2,4744)	1:55:A:THR:HG23	1:62:A:LEU:H	20	0.76
(2,4701)	1:44:A:GLY:H	1:46:A:PHE:HD1	20	0.76
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	17	0.76
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG13	19	0.76
(2,4606)	1:77:A:LEU:H	1:125:A:PHE:HE2	3	0.76
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	8	0.76
(2,4558)	1:33:A:VAL:HG11	1:127:A:ASN:HD21	10	0.76
(2,4558)	1:33:A:VAL:HG11	1:127:A:ASN:HD21	15	0.76
(2,4530)	1:33:A:VAL:HG11	1:144:A:PHE:HD1	1	0.76
(2,4522)	1:99:A:ARG:HD2	1:101:A:LEU:HD11	7	0.76
(2,4493)	1:29:A:LEU:HD22	1:130:A:ALA:HA	10	0.76
(2,4475)	1:126:A:ILE:HD12	1:77:A:LEU:HD11	19	0.76
(2,4469)	1:77:A:LEU:HD11	1:130:A:ALA:HB2	10	0.76
(2,4460)	1:61:A:LYS:HB2	1:61:A:LYS:HE3	7	0.76
(2,4435)	1:59:A:ILE:HD12	1:159:A:ILE:HG12	4	0.76
(2,4435)	1:159:A:ILE:HG22	1:159:A:ILE:HG12	14	0.76
(2,4347)	1:38:A:THR:HG22	1:110:A:PHE:HZ	14	0.76
(2,4332)	1:141:A:LEU:HD11	1:132:A:HIS:HB3	18	0.76
(2,4319)	1:115:A:ILE:HG23	1:118:A:ARG:HB3	6	0.76
(2,4311)	1:10:A:ARG:HB3	1:10:A:ARG:HD3	2	0.76
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	15	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4270)	1:97:A:PHE:HB3	1:101:A:LEU:H	5	0.76
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	5	0.76
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	6	0.76
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	13	0.76
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	7	0.76
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	6	0.76
(2,4115)	1:135:A:ALA:HB3	1:136:A:GLN:HG3	7	0.76
(2,4096)	1:59:A:ILE:HG21	1:136:A:GLN:H	2	0.76
(2,4096)	1:59:A:ILE:HG23	1:136:A:GLN:H	19	0.76
(2,4088)	1:31:A:ILE:HD11	1:123:A:GLU:HB2	16	0.76
(2,4083)	1:126:A:ILE:HD11	1:74:A:PHE:HB3	10	0.76
(2,4083)	1:126:A:ILE:HD11	1:74:A:PHE:HB3	13	0.76
(2,4065)	1:81:A:LEU:HD12	1:135:A:ALA:H	19	0.76
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	8	0.76
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG21	3	0.76
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	3	0.76
(2,4033)	1:59:A:ILE:HD13	1:138:A:GLU:H	16	0.76
(2,4023)	1:12:A:ILE:HD12	1:10:A:ARG:HD2	16	0.76
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB2	4	0.76
(2,3989)	1:26:A:SER:HB2	1:24:A:PRO:HB3	20	0.76
(2,3961)	1:109:A:ILE:HD11	1:108:A:GLY:HA2	9	0.76
(2,3943)	1:115:A:ILE:HD12	1:112:A:ASP:HB2	1	0.76
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	2	0.76
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD11	1	0.76
(2,3781)	1:122:A:LEU:HD13	1:125:A:PHE:H	20	0.76
(2,3765)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	8	0.76
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG2	3	0.76
(2,3688)	1:150:A:ILE:HD12	1:73:A:ASP:H	1	0.76
(2,3687)	1:150:A:ILE:HD13	1:144:A:PHE:H	2	0.76
(2,3687)	1:150:A:ILE:HD12	1:144:A:PHE:H	8	0.76
(2,3657)	1:66:A:THR:HG21	1:68:A:ARG:H	3	0.76
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	1	0.76
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	13	0.76
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	5	0.76
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	17	0.76
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG21	20	0.76
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	8	0.76
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	15	0.76
(2,3540)	1:100:A:GLN:HE22	1:100:A:GLN:HA	2	0.76
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG22	8	0.76
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE2	14	0.76
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	20	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	2	0.76
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	8	0.76
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	15	0.76
(2,2945)	1:62:A:LEU:HD12	1:62:A:LEU:H	6	0.76
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB1	7	0.76
(2,2521)	1:83:A:ARG:H	1:85:A:SER:HB2	5	0.76
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG21	3	0.76
(2,2372)	1:33:A:VAL:HG21	1:74:A:PHE:HD2	2	0.76
(2,2372)	1:33:A:VAL:HG22	1:74:A:PHE:HD2	11	0.76
(2,2372)	1:33:A:VAL:HG22	1:74:A:PHE:HD2	15	0.76
(2,2314)	1:77:A:LEU:HD23	1:125:A:PHE:HZ	9	0.76
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	2	0.76
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	15	0.76
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	10	0.76
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD11	9	0.76
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	4	0.76
(2,1897)	1:115:A:ILE:HD11	1:116:A:GLU:HA	17	0.76
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG21	12	0.76
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG22	19	0.76
(2,1865)	1:98:A:LEU:HD11	1:94:A:GLY:HA3	13	0.76
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	13	0.76
(2,1409)	1:39:A:VAL:HG23	1:37:A:GLN:HB2	14	0.76
(2,1388)	1:41:A:VAL:HG21	1:42:A:GLY:HA3	2	0.76
(2,1388)	1:41:A:VAL:HG23	1:42:A:GLY:HA3	7	0.76
(2,1388)	1:41:A:VAL:HG21	1:42:A:GLY:HA3	13	0.76
(2,1342)	1:59:A:ILE:HG21	1:136:A:GLN:HB2	14	0.76
(2,1330)	1:115:A:ILE:HG21	1:37:A:GLN:H	10	0.76
(2,1312)	1:149:A:ILE:HG22	1:151:A:ASP:H	1	0.76
(2,1301)	1:31:A:ILE:HD12	1:130:A:ALA:HA	9	0.76
(2,1301)	1:31:A:ILE:HD11	1:130:A:ALA:HA	12	0.76
(2,1215)	1:29:A:LEU:HD23	1:30:A:GLU:H	11	0.76
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD13	19	0.76
(2,1102)	1:11:A:LEU:HD23	1:12:A:ILE:H	6	0.76
(2,1102)	1:11:A:LEU:HD23	1:12:A:ILE:H	18	0.76
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	8	0.76
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	12	0.76
(2,480)	1:53:A:VAL:HG23	1:31:A:ILE:HD12	1	0.76
(2,480)	1:53:A:VAL:HG21	1:31:A:ILE:HD12	4	0.76
(2,480)	1:53:A:VAL:HG23	1:31:A:ILE:HD11	12	0.76
(2,480)	1:53:A:VAL:HG22	1:31:A:ILE:HD13	13	0.76
(2,270)	1:109:A:ILE:HD13	1:110:A:PHE:H	2	0.76
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	1	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4796)	1:29:A:LEU:HD21	1:30:A:GLU:H	1	0.75
(2,4796)	1:29:A:LEU:HD21	1:30:A:GLU:H	19	0.75
(2,4785)	1:23:A:GLY:H	1:24:A:PRO:HB3	16	0.75
(2,4760)	1:5:A:VAL:HG12	1:4:A:THR:H	1	0.75
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG13	18	0.75
(2,4744)	1:55:A:THR:HG21	1:62:A:LEU:H	14	0.75
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	10	0.75
(2,4606)	1:77:A:LEU:H	1:125:A:PHE:HE2	1	0.75
(2,4570)	1:149:A:ILE:HD12	1:148:A:GLU:HA	9	0.75
(2,4570)	1:149:A:ILE:HD13	1:148:A:GLU:HA	16	0.75
(2,4564)	1:89:A:VAL:HG13	1:88:A:VAL:HA	17	0.75
(2,4536)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	5	0.75
(2,4536)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	12	0.75
(2,4506)	1:77:A:LEU:HD13	1:81:A:LEU:HA	2	0.75
(2,4493)	1:29:A:LEU:HD21	1:130:A:ALA:HA	1	0.75
(2,4492)	1:31:A:ILE:HD12	1:130:A:ALA:HA	4	0.75
(2,4492)	1:31:A:ILE:HD12	1:130:A:ALA:HA	7	0.75
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD12	20	0.75
(2,4475)	1:141:A:LEU:HD13	1:77:A:LEU:HD13	1	0.75
(2,4471)	1:77:A:LEU:HD13	1:126:A:ILE:HA	17	0.75
(2,4435)	1:159:A:ILE:HG21	1:159:A:ILE:HG12	6	0.75
(2,4435)	1:159:A:ILE:HG22	1:159:A:ILE:HG12	7	0.75
(2,4435)	1:159:A:ILE:HG23	1:159:A:ILE:HG12	17	0.75
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	13	0.75
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	14	0.75
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	10	0.75
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	9	0.75
(2,4116)	1:135:A:ALA:HB3	1:88:A:VAL:H	10	0.75
(2,4111)	1:96:A:ALA:HB1	1:99:A:ARG:HD3	1	0.75
(2,4111)	1:96:A:ALA:HB2	1:99:A:ARG:HD2	20	0.75
(2,4096)	1:59:A:ILE:HG23	1:136:A:GLN:H	4	0.75
(2,4065)	1:81:A:LEU:HD12	1:135:A:ALA:H	14	0.75
(2,4065)	1:81:A:LEU:HD12	1:135:A:ALA:H	15	0.75
(2,4057)	1:29:A:LEU:HD21	1:136:A:GLN:HG2	5	0.75
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	12	0.75
(2,4037)	1:122:A:LEU:HD13	1:33:A:VAL:HG22	15	0.75
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB2	5	0.75
(2,3942)	1:115:A:ILE:HG21	1:119:A:LYS:HE2	6	0.75
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	2	0.75
(2,3776)	1:39:A:VAL:HG12	1:46:A:PHE:HZ	17	0.75
(2,3749)	1:23:A:GLY:HA2	1:24:A:PRO:HG2	19	0.75
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG22	13	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3706)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	8	0.75
(2,3660)	1:66:A:THR:HG21	1:52:A:ARG:HB2	2	0.75
(2,3657)	1:66:A:THR:HG21	1:68:A:ARG:H	16	0.75
(2,3657)	1:66:A:THR:HG21	1:68:A:ARG:H	18	0.75
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD23	18	0.75
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	19	0.75
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG22	11	0.75
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE2	13	0.75
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	19	0.75
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	20	0.75
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	20	0.75
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	10	0.75
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	14	0.75
(2,2968)	1:1:A:THR:H	1:1:A:THR:HG22	7	0.75
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	20	0.75
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB3	1	0.75
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG23	12	0.75
(2,2337)	1:98:A:LEU:HD23	1:100:A:GLN:HB2	17	0.75
(2,2314)	1:77:A:LEU:HD23	1:125:A:PHE:HZ	3	0.75
(2,2314)	1:77:A:LEU:HD22	1:125:A:PHE:HZ	5	0.75
(2,2314)	1:77:A:LEU:HD23	1:125:A:PHE:HZ	6	0.75
(2,2150)	1:51:A:ILE:HA	1:33:A:VAL:HG23	14	0.75
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	15	0.75
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD12	1	0.75
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	7	0.75
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	12	0.75
(2,1897)	1:115:A:ILE:HD13	1:116:A:GLU:HA	15	0.75
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG22	17	0.75
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG23	11	0.75
(2,1586)	1:141:A:LEU:HD11	1:144:A:PHE:HD2	17	0.75
(2,1504)	1:57:A:LEU:HD21	1:29:A:LEU:HD12	9	0.75
(2,1330)	1:115:A:ILE:HG22	1:37:A:GLN:H	8	0.75
(2,1301)	1:31:A:ILE:HD12	1:130:A:ALA:HA	16	0.75
(2,1063)	1:159:A:ILE:HD12	1:142:A:HIS:HB3	14	0.75
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	13	0.75
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	17	0.75
(2,480)	1:53:A:VAL:HG23	1:31:A:ILE:HD13	17	0.75
(2,346)	1:89:A:VAL:HG13	1:88:A:VAL:HA	17	0.75
(2,247)	1:150:A:ILE:HG21	1:76:A:TRP:HZ2	13	0.75
(2,247)	1:150:A:ILE:HG21	1:76:A:TRP:HZ2	19	0.75
(2,224)	1:155:A:THR:HG22	1:139:A:ARG:HG2	3	0.75
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	3	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	4	0.75
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	7	0.75
(2,4943)	1:140:A:CYS:H	1:161:A:HIS:HD2	2	0.74
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	2	0.74
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	5	0.74
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	8	0.74
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	9	0.74
(2,4796)	1:29:A:LEU:HD23	1:30:A:GLU:H	11	0.74
(2,4785)	1:23:A:GLY:H	1:58:A:PRO:HB2	15	0.74
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG22	3	0.74
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG23	5	0.74
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG13	19	0.74
(2,4744)	1:55:A:THR:HG22	1:62:A:LEU:H	12	0.74
(2,4727)	1:33:A:VAL:HG22	1:50:A:GLU:H	4	0.74
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	20	0.74
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG12	1	0.74
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG12	16	0.74
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	8	0.74
(2,4570)	1:149:A:ILE:HD12	1:148:A:GLU:HA	6	0.74
(2,4570)	1:149:A:ILE:HD12	1:148:A:GLU:HA	8	0.74
(2,4564)	1:89:A:VAL:HG11	1:88:A:VAL:HA	10	0.74
(2,4564)	1:89:A:VAL:HG13	1:88:A:VAL:HA	11	0.74
(2,4564)	1:89:A:VAL:HG12	1:88:A:VAL:HA	12	0.74
(2,4564)	1:89:A:VAL:HG11	1:88:A:VAL:HA	15	0.74
(2,4558)	1:33:A:VAL:HG12	1:127:A:ASN:HD21	13	0.74
(2,4558)	1:33:A:VAL:HG11	1:127:A:ASN:HD21	19	0.74
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	12	0.74
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	2	0.74
(2,4506)	1:77:A:LEU:HD11	1:81:A:LEU:HA	8	0.74
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	20	0.74
(2,4493)	1:29:A:LEU:HD22	1:130:A:ALA:HA	3	0.74
(2,4475)	1:141:A:LEU:HD13	1:77:A:LEU:HD12	2	0.74
(2,4474)	1:77:A:LEU:HD12	1:126:A:ILE:HB	6	0.74
(2,4469)	1:77:A:LEU:HD11	1:130:A:ALA:HB2	14	0.74
(2,4460)	1:61:A:LYS:HB2	1:61:A:LYS:HE2	11	0.74
(2,4435)	1:159:A:ILE:HG22	1:159:A:ILE:HG12	5	0.74
(2,4435)	1:159:A:ILE:HG22	1:159:A:ILE:HG12	8	0.74
(2,4435)	1:159:A:ILE:HG22	1:159:A:ILE:HG12	9	0.74
(2,4435)	1:59:A:ILE:HD12	1:159:A:ILE:HG12	12	0.74
(2,4435)	1:159:A:ILE:HG23	1:159:A:ILE:HG12	15	0.74
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD22	4	0.74
(2,4332)	1:141:A:LEU:HD13	1:132:A:HIS:HB3	6	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD12	3	0.74
(2,4298)	1:93:A:PRO:HD3	1:74:A:PHE:HD2	18	0.74
(2,4238)	1:31:A:ILE:HG23	1:123:A:GLU:HB3	16	0.74
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	2	0.74
(2,4155)	1:57:A:LEU:HG	1:60:A:PHE:HE1	11	0.74
(2,4119)	1:5:A:VAL:HG22	1:4:A:THR:HB	18	0.74
(2,4096)	1:59:A:ILE:HG22	1:136:A:GLN:H	10	0.74
(2,4081)	1:115:A:ILE:HD12	1:109:A:ILE:H	14	0.74
(2,4081)	1:115:A:ILE:HD11	1:110:A:PHE:HE2	20	0.74
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG21	8	0.74
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	19	0.74
(2,3989)	1:26:A:SER:HB2	1:24:A:PRO:HB3	7	0.74
(2,3755)	1:48:A:THR:HG21	1:46:A:PHE:HB2	11	0.74
(2,3754)	1:145:A:LEU:HA	1:145:A:LEU:HD13	8	0.74
(2,3754)	1:145:A:LEU:HA	1:145:A:LEU:HD13	14	0.74
(2,3688)	1:150:A:ILE:HD12	1:73:A:ASP:H	3	0.74
(2,3687)	1:150:A:ILE:HD11	1:144:A:PHE:H	6	0.74
(2,3660)	1:66:A:THR:HG23	1:52:A:ARG:HB2	5	0.74
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG21	15	0.74
(2,3618)	1:32:A:ASP:HB3	1:31:A:ILE:HG23	20	0.74
(2,3606)	1:90:A:PRO:HD3	1:89:A:VAL:HG22	3	0.74
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG21	2	0.74
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG23	19	0.74
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE2	20	0.74
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	7	0.74
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD12	20	0.74
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD22	2	0.74
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD22	11	0.74
(2,2747)	1:122:A:LEU:HD23	1:121:A:GLY:H	13	0.74
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	11	0.74
(2,2337)	1:98:A:LEU:HD22	1:100:A:GLN:HB2	6	0.74
(2,2314)	1:77:A:LEU:HD21	1:125:A:PHE:HZ	1	0.74
(2,2314)	1:77:A:LEU:HD21	1:125:A:PHE:HZ	12	0.74
(2,2314)	1:77:A:LEU:HD21	1:125:A:PHE:HZ	18	0.74
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	10	0.74
(2,2078)	1:155:A:THR:HG22	1:139:A:ARG:HA	3	0.74
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD13	15	0.74
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD13	16	0.74
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	18	0.74
(2,1897)	1:115:A:ILE:HD11	1:116:A:GLU:HA	5	0.74
(2,1897)	1:115:A:ILE:HD12	1:116:A:GLU:HA	6	0.74
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG23	3	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG23	7	0.74
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG23	8	0.74
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD23	10	0.74
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	3	0.74
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	9	0.74
(2,1388)	1:41:A:VAL:HG22	1:42:A:GLY:HA3	3	0.74
(2,1209)	1:29:A:LEU:HD22	1:56:A:ASN:H	4	0.74
(2,1209)	1:29:A:LEU:HD21	1:56:A:ASN:H	10	0.74
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD11	5	0.74
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	6	0.74
(2,1110)	1:148:A:GLU:HG3	1:149:A:ILE:HD11	7	0.74
(2,1102)	1:11:A:LEU:HD22	1:12:A:ILE:H	7	0.74
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	8	0.74
(2,510)	1:122:A:LEU:HD11	1:92:A:LEU:HD13	10	0.74
(2,480)	1:53:A:VAL:HG22	1:31:A:ILE:HD12	3	0.74
(2,480)	1:53:A:VAL:HG21	1:31:A:ILE:HD11	11	0.74
(2,480)	1:53:A:VAL:HG23	1:31:A:ILE:HD12	19	0.74
(2,346)	1:89:A:VAL:HG11	1:88:A:VAL:HA	10	0.74
(2,346)	1:89:A:VAL:HG13	1:88:A:VAL:HA	11	0.74
(2,346)	1:89:A:VAL:HG12	1:88:A:VAL:HA	12	0.74
(2,346)	1:89:A:VAL:HG11	1:88:A:VAL:HA	15	0.74
(2,270)	1:109:A:ILE:HD13	1:110:A:PHE:H	12	0.74
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	13	0.73
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	2	0.73
(2,4785)	1:23:A:GLY:H	1:58:A:PRO:HB2	3	0.73
(2,4770)	1:10:A:ARG:H	1:11:A:LEU:HB3	1	0.73
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG12	1	0.73
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG22	13	0.73
(2,4570)	1:149:A:ILE:HD12	1:148:A:GLU:HA	11	0.73
(2,4564)	1:89:A:VAL:HG12	1:88:A:VAL:HA	3	0.73
(2,4564)	1:89:A:VAL:HG12	1:88:A:VAL:HA	7	0.73
(2,4564)	1:89:A:VAL:HG11	1:88:A:VAL:HA	19	0.73
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	16	0.73
(2,4536)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	4	0.73
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD23	12	0.73
(2,4493)	1:29:A:LEU:HD22	1:130:A:ALA:HA	20	0.73
(2,4474)	1:77:A:LEU:HD13	1:126:A:ILE:HB	14	0.73
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	12	0.73
(2,4460)	1:61:A:LYS:HB2	1:61:A:LYS:HE2	15	0.73
(2,4460)	1:61:A:LYS:HB2	1:61:A:LYS:HE2	19	0.73
(2,4435)	1:59:A:ILE:HD13	1:159:A:ILE:HG12	1	0.73
(2,4435)	1:59:A:ILE:HD13	1:159:A:ILE:HG12	18	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4423)	1:62:A:LEU:HD13	1:61:A:LYS:HG3	15	0.73
(2,4332)	1:141:A:LEU:HD13	1:132:A:HIS:HB3	3	0.73
(2,4298)	1:93:A:PRO:HD3	1:125:A:PHE:HE1	2	0.73
(2,4287)	1:86:A:LYS:HE2	1:134:A:LEU:HD12	9	0.73
(2,4260)	1:55:A:THR:HG23	1:63:A:LYS:HE3	10	0.73
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	1	0.73
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	6	0.73
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	14	0.73
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	20	0.73
(2,4155)	1:57:A:LEU:HG	1:60:A:PHE:HE1	5	0.73
(2,4144)	1:64:A:GLU:HG2	1:54:A:LYS:HE3	9	0.73
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD11	4	0.73
(2,4116)	1:135:A:ALA:HB3	1:88:A:VAL:H	11	0.73
(2,4096)	1:59:A:ILE:HG23	1:136:A:GLN:H	11	0.73
(2,4083)	1:126:A:ILE:HD13	1:74:A:PHE:HB3	17	0.73
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	17	0.73
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG21	4	0.73
(2,4033)	1:59:A:ILE:HD13	1:138:A:GLU:H	1	0.73
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	7	0.73
(2,4033)	1:59:A:ILE:HD12	1:138:A:GLU:H	17	0.73
(2,3989)	1:26:A:SER:HB2	1:24:A:PRO:HB3	19	0.73
(2,3943)	1:115:A:ILE:HD12	1:112:A:ASP:HB2	17	0.73
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	20	0.73
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG12	5	0.73
(2,3842)	1:159:A:ILE:HG23	1:136:A:GLN:HA	12	0.73
(2,3803)	1:129:A:VAL:HG21	1:125:A:PHE:HD2	20	0.73
(2,3762)	1:53:A:VAL:HG21	1:64:A:GLU:HB3	3	0.73
(2,3754)	1:145:A:LEU:HA	1:53:A:VAL:HG13	11	0.73
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG23	3	0.73
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG21	18	0.73
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG22	19	0.73
(2,3709)	1:92:A:LEU:HD12	1:79:A:SER:HB3	6	0.73
(2,3688)	1:150:A:ILE:HD11	1:73:A:ASP:H	2	0.73
(2,3688)	1:150:A:ILE:HD12	1:73:A:ASP:H	7	0.73
(2,3687)	1:150:A:ILE:HD13	1:144:A:PHE:H	11	0.73
(2,3687)	1:150:A:ILE:HD13	1:144:A:PHE:H	14	0.73
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD21	16	0.73
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	8	0.73
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	9	0.73
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	11	0.73
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	18	0.73
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	2	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	7	0.73
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	11	0.73
(2,3540)	1:100:A:GLN:HE22	1:100:A:GLN:HA	1	0.73
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG21	14	0.73
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE1	11	0.73
(2,3450)	1:130:A:ALA:HB1	1:132:A:HIS:H	3	0.73
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	11	0.73
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	6	0.73
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	13	0.73
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	2	0.73
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	11	0.73
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD21	7	0.73
(2,2968)	1:1:A:THR:H	1:1:A:THR:HG21	2	0.73
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	8	0.73
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG23	4	0.73
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG21	16	0.73
(2,2337)	1:98:A:LEU:HD22	1:100:A:GLN:HB2	14	0.73
(2,2314)	1:77:A:LEU:HD21	1:125:A:PHE:HZ	15	0.73
(2,2078)	1:155:A:THR:HG21	1:139:A:ARG:HA	2	0.73
(2,2078)	1:155:A:THR:HG21	1:139:A:ARG:HA	8	0.73
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	7	0.73
(2,2033)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	8	0.73
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD11	11	0.73
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD11	20	0.73
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG21	18	0.73
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	20	0.73
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG23	13	0.73
(2,1586)	1:141:A:LEU:HD13	1:144:A:PHE:HD2	16	0.73
(2,1410)	1:48:A:THR:HG21	1:39:A:VAL:HG23	2	0.73
(2,1410)	1:48:A:THR:HG22	1:39:A:VAL:HG22	20	0.73
(2,1388)	1:41:A:VAL:HG22	1:42:A:GLY:HA3	5	0.73
(2,1388)	1:41:A:VAL:HG22	1:42:A:GLY:HA3	8	0.73
(2,1388)	1:41:A:VAL:HG23	1:42:A:GLY:HA3	18	0.73
(2,1388)	1:41:A:VAL:HG23	1:42:A:GLY:HA3	19	0.73
(2,1330)	1:115:A:ILE:HG21	1:37:A:GLN:H	16	0.73
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG23	12	0.73
(2,1209)	1:29:A:LEU:HD22	1:56:A:ASN:H	6	0.73
(2,1209)	1:29:A:LEU:HD21	1:56:A:ASN:H	8	0.73
(2,1209)	1:29:A:LEU:HD22	1:56:A:ASN:H	11	0.73
(2,1209)	1:29:A:LEU:HD23	1:56:A:ASN:H	15	0.73
(2,1197)	1:29:A:LEU:HD21	1:136:A:GLN:HG3	16	0.73
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	11	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1102)	1:11:A:LEU:HD23	1:12:A:ILE:H	14	0.73
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG13	1	0.73
(2,480)	1:53:A:VAL:HG21	1:31:A:ILE:HD12	8	0.73
(2,346)	1:89:A:VAL:HG12	1:88:A:VAL:HA	3	0.73
(2,346)	1:89:A:VAL:HG12	1:88:A:VAL:HA	7	0.73
(2,346)	1:89:A:VAL:HG11	1:88:A:VAL:HA	19	0.73
(2,270)	1:109:A:ILE:HD11	1:110:A:PHE:H	4	0.73
(2,270)	1:109:A:ILE:HD12	1:110:A:PHE:H	5	0.73
(2,270)	1:109:A:ILE:HD12	1:110:A:PHE:H	8	0.73
(2,270)	1:109:A:ILE:HD13	1:110:A:PHE:H	9	0.73
(2,270)	1:109:A:ILE:HD11	1:110:A:PHE:H	20	0.73
(2,224)	1:155:A:THR:HG21	1:139:A:ARG:HG2	12	0.73
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	16	0.72
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	6	0.72
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	17	0.72
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG23	17	0.72
(2,4785)	1:23:A:GLY:H	1:58:A:PRO:HB2	17	0.72
(2,4744)	1:55:A:THR:HG22	1:62:A:LEU:H	2	0.72
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	15	0.72
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	19	0.72
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG21	11	0.72
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG12	14	0.72
(2,4657)	1:44:A:GLY:H	1:41:A:VAL:HG11	18	0.72
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	5	0.72
(2,4608)	1:79:A:SER:H	1:81:A:LEU:HD13	13	0.72
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD2	14	0.72
(2,4586)	1:100:A:GLN:HG2	1:98:A:LEU:HD11	7	0.72
(2,4564)	1:89:A:VAL:HG13	1:88:A:VAL:HA	9	0.72
(2,4558)	1:33:A:VAL:HG13	1:127:A:ASN:HD21	4	0.72
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	20	0.72
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	5	0.72
(2,4536)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	13	0.72
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	19	0.72
(2,4469)	1:77:A:LEU:HD12	1:130:A:ALA:HB3	2	0.72
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	2	0.72
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	5	0.72
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	13	0.72
(2,4435)	1:59:A:ILE:HD11	1:159:A:ILE:HG12	2	0.72
(2,4435)	1:159:A:ILE:HG22	1:159:A:ILE:HG12	16	0.72
(2,4396)	1:61:A:LYS:HD3	1:61:A:LYS:HA	10	0.72
(2,4347)	1:38:A:THR:HG21	1:110:A:PHE:HZ	2	0.72
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD22	1	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4311)	1:99:A:ARG:HB2	1:99:A:ARG:HD2	1	0.72
(2,4298)	1:93:A:PRO:HD3	1:125:A:PHE:HE1	16	0.72
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	3	0.72
(2,4240)	1:31:A:ILE:HG23	1:52:A:ARG:HB2	15	0.72
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG22	1	0.72
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	18	0.72
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	17	0.72
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	11	0.72
(2,4116)	1:135:A:ALA:HB3	1:88:A:VAL:H	19	0.72
(2,4111)	1:96:A:ALA:HB1	1:99:A:ARG:HD2	18	0.72
(2,4096)	1:59:A:ILE:HG23	1:136:A:GLN:H	6	0.72
(2,4083)	1:126:A:ILE:HD13	1:74:A:PHE:HB3	1	0.72
(2,4083)	1:126:A:ILE:HD11	1:74:A:PHE:HB3	7	0.72
(2,4083)	1:126:A:ILE:HD12	1:74:A:PHE:HB3	18	0.72
(2,4004)	1:159:A:ILE:HD11	1:141:A:LEU:HG	10	0.72
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	14	0.72
(2,3943)	1:115:A:ILE:HD13	1:112:A:ASP:HB2	12	0.72
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD12	5	0.72
(2,3776)	1:39:A:VAL:HG12	1:46:A:PHE:HZ	18	0.72
(2,3765)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	9	0.72
(2,3765)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	14	0.72
(2,3765)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	18	0.72
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG22	1	0.72
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG21	7	0.72
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG21	16	0.72
(2,3723)	1:89:A:VAL:HG12	1:82:A:GLU:H	18	0.72
(2,3687)	1:150:A:ILE:HD12	1:144:A:PHE:H	9	0.72
(2,3687)	1:150:A:ILE:HD12	1:144:A:PHE:H	13	0.72
(2,3660)	1:66:A:THR:HG21	1:52:A:ARG:HB2	7	0.72
(2,3660)	1:66:A:THR:HG21	1:52:A:ARG:HB2	13	0.72
(2,3660)	1:66:A:THR:HG21	1:52:A:ARG:HB2	17	0.72
(2,3639)	1:79:A:SER:HB3	1:78:A:ARG:HG2	3	0.72
(2,3589)	1:107:A:ASP:H	1:106:A:ASP:HB3	6	0.72
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	5	0.72
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG23	13	0.72
(2,3544)	1:117:A:GLU:H	1:114:A:PHE:HE1	17	0.72
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE2	3	0.72
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE2	6	0.72
(2,3450)	1:130:A:ALA:HB1	1:132:A:HIS:H	4	0.72
(2,3423)	1:125:A:PHE:H	1:123:A:GLU:HG2	10	0.72
(2,2968)	1:1:A:THR:H	1:1:A:THR:HG21	16	0.72
(2,2754)	1:18:A:LEU:H	1:17:A:ASN:HD22	12	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG21	8	0.72
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	2	0.72
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	4	0.72
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	9	0.72
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	14	0.72
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	15	0.72
(2,2372)	1:33:A:VAL:HG21	1:74:A:PHE:HD2	10	0.72
(2,2370)	1:145:A:LEU:HD23	1:136:A:GLN:HE22	17	0.72
(2,2314)	1:77:A:LEU:HD23	1:125:A:PHE:HZ	2	0.72
(2,2314)	1:77:A:LEU:HD23	1:125:A:PHE:HZ	20	0.72
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	11	0.72
(2,2181)	1:53:A:VAL:HG12	1:31:A:ILE:HG12	7	0.72
(2,2078)	1:155:A:THR:HG23	1:139:A:ARG:HA	4	0.72
(2,2078)	1:155:A:THR:HG23	1:139:A:ARG:HA	19	0.72
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD11	19	0.72
(2,1965)	1:149:A:ILE:HD11	1:150:A:ILE:HA	12	0.72
(2,1897)	1:115:A:ILE:HD11	1:116:A:GLU:HA	10	0.72
(2,1897)	1:115:A:ILE:HD12	1:116:A:GLU:HA	11	0.72
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG23	13	0.72
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG23	16	0.72
(2,1504)	1:57:A:LEU:HD21	1:29:A:LEU:HD13	3	0.72
(2,1388)	1:41:A:VAL:HG21	1:42:A:GLY:HA3	6	0.72
(2,1388)	1:41:A:VAL:HG22	1:42:A:GLY:HA3	9	0.72
(2,1388)	1:41:A:VAL:HG23	1:42:A:GLY:HA3	10	0.72
(2,1388)	1:41:A:VAL:HG23	1:42:A:GLY:HA3	11	0.72
(2,1388)	1:41:A:VAL:HG21	1:42:A:GLY:HA3	12	0.72
(2,1388)	1:41:A:VAL:HG23	1:42:A:GLY:HA3	16	0.72
(2,1388)	1:41:A:VAL:HG23	1:42:A:GLY:HA3	17	0.72
(2,1388)	1:41:A:VAL:HG23	1:42:A:GLY:HA3	20	0.72
(2,1342)	1:59:A:ILE:HG23	1:136:A:GLN:HB2	11	0.72
(2,1342)	1:59:A:ILE:HG22	1:136:A:GLN:HB2	12	0.72
(2,1342)	1:59:A:ILE:HG23	1:136:A:GLN:HB2	16	0.72
(2,1301)	1:31:A:ILE:HD11	1:130:A:ALA:HA	18	0.72
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG21	6	0.72
(2,1209)	1:29:A:LEU:HD21	1:56:A:ASN:H	9	0.72
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD11	8	0.72
(2,1102)	1:11:A:LEU:HD23	1:12:A:ILE:H	3	0.72
(2,1102)	1:11:A:LEU:HD21	1:12:A:ILE:H	9	0.72
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	2	0.72
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	5	0.72
(2,757)	1:122:A:LEU:HD23	1:49:A:TYR:HD2	16	0.72
(2,346)	1:89:A:VAL:HG13	1:88:A:VAL:HA	9	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,270)	1:109:A:ILE:HD13	1:110:A:PHE:H	10	0.72
(2,270)	1:109:A:ILE:HD11	1:110:A:PHE:H	11	0.72
(2,270)	1:109:A:ILE:HD12	1:110:A:PHE:H	13	0.72
(2,270)	1:109:A:ILE:HD13	1:110:A:PHE:H	17	0.72
(2,270)	1:109:A:ILE:HD11	1:110:A:PHE:H	18	0.72
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	5	0.72
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD2	5	0.71
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD2	9	0.71
(2,4925)	1:137:A:ASN:HD22	1:160:A:ARG:HA	16	0.71
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	13	0.71
(2,4785)	1:23:A:GLY:H	1:24:A:PRO:HB3	5	0.71
(2,4785)	1:23:A:GLY:H	1:24:A:PRO:HB3	8	0.71
(2,4744)	1:55:A:THR:HG22	1:62:A:LEU:H	18	0.71
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	2	0.71
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	7	0.71
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	18	0.71
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG22	2	0.71
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG23	20	0.71
(2,4701)	1:44:A:GLY:H	1:46:A:PHE:HD1	7	0.71
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	13	0.71
(2,4606)	1:77:A:LEU:H	1:125:A:PHE:HE2	20	0.71
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	16	0.71
(2,4570)	1:149:A:ILE:HD11	1:148:A:GLU:HA	5	0.71
(2,4558)	1:33:A:VAL:HG11	1:127:A:ASN:HD21	2	0.71
(2,4541)	1:146:A:GLN:HG2	1:143:A:MET:HA	9	0.71
(2,4536)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	2	0.71
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	18	0.71
(2,4506)	1:77:A:LEU:HD13	1:81:A:LEU:HA	4	0.71
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD11	13	0.71
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	17	0.71
(2,4493)	1:29:A:LEU:HD22	1:130:A:ALA:HA	9	0.71
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD12	12	0.71
(2,4474)	1:77:A:LEU:HD13	1:126:A:ILE:HB	20	0.71
(2,4469)	1:77:A:LEU:HD13	1:130:A:ALA:HB2	3	0.71
(2,4469)	1:77:A:LEU:HD11	1:130:A:ALA:HB3	11	0.71
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	8	0.71
(2,4460)	1:61:A:LYS:HB2	1:61:A:LYS:HE2	18	0.71
(2,4441)	1:33:A:VAL:HG13	1:122:A:LEU:H	8	0.71
(2,4414)	1:12:A:ILE:HB	1:11:A:LEU:HA	9	0.71
(2,4359)	1:157:A:SER:HB3	1:158:A:LYS:HD3	17	0.71
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	15	0.71
(2,4346)	1:145:A:LEU:HA	1:145:A:LEU:HD23	14	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4341)	1:144:A:PHE:HA	1:74:A:PHE:HA	20	0.71
(2,4335)	1:59:A:ILE:HG23	1:141:A:LEU:HB3	16	0.71
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	9	0.71
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	18	0.71
(2,4240)	1:31:A:ILE:HG22	1:52:A:ARG:HB2	18	0.71
(2,4197)	1:160:A:ARG:HD3	1:59:A:ILE:H	18	0.71
(2,4182)	1:141:A:LEU:HD11	1:143:A:MET:HG2	5	0.71
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD12	17	0.71
(2,4096)	1:59:A:ILE:HG23	1:136:A:GLN:H	15	0.71
(2,4096)	1:59:A:ILE:HG23	1:136:A:GLN:H	20	0.71
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	6	0.71
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG22	11	0.71
(2,4033)	1:59:A:ILE:HD13	1:138:A:GLU:H	18	0.71
(2,4027)	1:152:A:LYS:HE3	1:76:A:TRP:H	20	0.71
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB2	1	0.71
(2,4004)	1:159:A:ILE:HD12	1:141:A:LEU:HG	6	0.71
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	17	0.71
(2,3810)	1:129:A:VAL:HG12	1:128:A:LYS:HD2	3	0.71
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD13	14	0.71
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD13	15	0.71
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG23	4	0.71
(2,3765)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	1	0.71
(2,3765)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	4	0.71
(2,3765)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	10	0.71
(2,3765)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	15	0.71
(2,3688)	1:150:A:ILE:HD12	1:73:A:ASP:H	6	0.71
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG21	3	0.71
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG22	4	0.71
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG23	7	0.71
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG22	10	0.71
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG21	14	0.71
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	9	0.71
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG22	15	0.71
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG22	13	0.71
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	5	0.71
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	18	0.71
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD21	14	0.71
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	4	0.71
(2,2747)	1:122:A:LEU:HD23	1:121:A:GLY:H	19	0.71
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	16	0.71
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	3	0.71
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	7	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	16	0.71
(2,2314)	1:77:A:LEU:HD22	1:125:A:PHE:HZ	14	0.71
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	1	0.71
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD11	5	0.71
(2,2181)	1:53:A:VAL:HG11	1:31:A:ILE:HG12	4	0.71
(2,2078)	1:155:A:THR:HG21	1:139:A:ARG:HA	16	0.71
(2,2078)	1:155:A:THR:HG23	1:139:A:ARG:HA	17	0.71
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	8	0.71
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	12	0.71
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	17	0.71
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	19	0.71
(2,2014)	1:134:A:LEU:HD11	1:137:A:ASN:HD22	18	0.71
(2,1980)	1:62:A:LEU:HD21	1:63:A:LYS:H	6	0.71
(2,1968)	1:156:A:PRO:HB2	1:154:A:TYR:HE2	17	0.71
(2,1965)	1:149:A:ILE:HD11	1:150:A:ILE:HA	7	0.71
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	11	0.71
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG21	5	0.71
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG21	14	0.71
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	1	0.71
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD23	14	0.71
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	13	0.71
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	10	0.71
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD12	8	0.71
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD13	19	0.71
(2,1388)	1:41:A:VAL:HG23	1:42:A:GLY:HA3	14	0.71
(2,1388)	1:41:A:VAL:HG22	1:42:A:GLY:HA3	15	0.71
(2,1330)	1:115:A:ILE:HG22	1:37:A:GLN:H	11	0.71
(2,1209)	1:29:A:LEU:HD23	1:56:A:ASN:H	18	0.71
(2,1136)	1:59:A:ILE:HD12	1:136:A:GLN:HB2	12	0.71
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD11	1	0.71
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	9	0.71
(2,1102)	1:11:A:LEU:HD22	1:12:A:ILE:H	10	0.71
(2,628)	1:129:A:VAL:HG11	1:77:A:LEU:HD13	14	0.71
(2,480)	1:53:A:VAL:HG23	1:31:A:ILE:HD13	5	0.71
(2,480)	1:53:A:VAL:HG23	1:31:A:ILE:HD12	7	0.71
(2,270)	1:109:A:ILE:HD12	1:110:A:PHE:H	16	0.71
(2,247)	1:150:A:ILE:HG21	1:76:A:TRP:HZ2	7	0.71
(2,247)	1:150:A:ILE:HG22	1:76:A:TRP:HZ2	12	0.71
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD11	5	0.7
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	14	0.7
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	1	0.7
(2,4785)	1:23:A:GLY:H	1:24:A:PRO:HB3	9	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	9	0.7
(2,4710)	1:60:A:PHE:H	1:61:A:LYS:HB3	11	0.7
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG21	9	0.7
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG23	18	0.7
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	18	0.7
(2,4570)	1:149:A:ILE:HD11	1:148:A:GLU:HA	2	0.7
(2,4570)	1:149:A:ILE:HD12	1:148:A:GLU:HA	4	0.7
(2,4564)	1:89:A:VAL:HG12	1:88:A:VAL:HA	20	0.7
(2,4558)	1:33:A:VAL:HG13	1:127:A:ASN:HD21	1	0.7
(2,4536)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	15	0.7
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	4	0.7
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD13	11	0.7
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	15	0.7
(2,4493)	1:29:A:LEU:HD22	1:130:A:ALA:HA	14	0.7
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	9	0.7
(2,4435)	1:59:A:ILE:HD12	1:159:A:ILE:HG12	19	0.7
(2,4346)	1:145:A:LEU:HA	1:145:A:LEU:HD22	8	0.7
(2,4341)	1:144:A:PHE:HA	1:148:A:GLU:HA	5	0.7
(2,4332)	1:141:A:LEU:HD12	1:132:A:HIS:HB3	17	0.7
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	5	0.7
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	16	0.7
(2,4260)	1:55:A:THR:HG23	1:63:A:LYS:HE3	3	0.7
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	14	0.7
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	15	0.7
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	10	0.7
(2,4119)	1:5:A:VAL:HG22	1:4:A:THR:HB	16	0.7
(2,4116)	1:135:A:ALA:HB1	1:88:A:VAL:H	18	0.7
(2,4096)	1:59:A:ILE:HG22	1:136:A:GLN:H	18	0.7
(2,4083)	1:126:A:ILE:HD13	1:74:A:PHE:HB3	12	0.7
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG23	4	0.7
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB3	14	0.7
(2,4004)	1:159:A:ILE:HD13	1:141:A:LEU:HG	5	0.7
(2,4004)	1:159:A:ILE:HD12	1:141:A:LEU:HG	18	0.7
(2,3963)	1:109:A:ILE:HD13	1:107:A:ASP:HB2	14	0.7
(2,3942)	1:115:A:ILE:HG22	1:119:A:LYS:HE2	14	0.7
(2,3942)	1:115:A:ILE:HG21	1:119:A:LYS:HE2	20	0.7
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD11	4	0.7
(2,3768)	1:53:A:VAL:HG21	1:145:A:LEU:HB3	9	0.7
(2,3765)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	2	0.7
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG22	5	0.7
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG22	8	0.7
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG23	15	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3723)	1:89:A:VAL:HG11	1:82:A:GLU:H	7	0.7
(2,3657)	1:66:A:THR:HG23	1:68:A:ARG:H	20	0.7
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	1	0.7
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	6	0.7
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	10	0.7
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD13	7	0.7
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD12	8	0.7
(2,3024)	1:11:A:LEU:HD12	1:10:A:ARG:H	2	0.7
(2,2747)	1:122:A:LEU:HD22	1:121:A:GLY:H	12	0.7
(2,2542)	1:85:A:SER:HB2	1:87:A:VAL:H	11	0.7
(2,2521)	1:83:A:ARG:H	1:85:A:SER:HB2	11	0.7
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	8	0.7
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	13	0.7
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	17	0.7
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	18	0.7
(2,2312)	1:77:A:LEU:HD22	1:144:A:PHE:HZ	10	0.7
(2,2312)	1:77:A:LEU:HD23	1:144:A:PHE:HZ	15	0.7
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	8	0.7
(2,2263)	1:134:A:LEU:HD22	1:135:A:ALA:HA	18	0.7
(2,2258)	1:130:A:ALA:HB3	1:136:A:GLN:HE22	9	0.7
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD13	17	0.7
(2,2181)	1:53:A:VAL:HG12	1:31:A:ILE:HG12	15	0.7
(2,2181)	1:53:A:VAL:HG12	1:31:A:ILE:HG12	20	0.7
(2,2078)	1:155:A:THR:HG22	1:139:A:ARG:HA	5	0.7
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD13	7	0.7
(2,1897)	1:115:A:ILE:HD13	1:116:A:GLU:HA	14	0.7
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG21	2	0.7
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG21	6	0.7
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	10	0.7
(2,1504)	1:57:A:LEU:HD21	1:29:A:LEU:HD11	5	0.7
(2,1504)	1:57:A:LEU:HD22	1:29:A:LEU:HD11	10	0.7
(2,1303)	1:31:A:ILE:HD13	1:31:A:ILE:HA	8	0.7
(2,1209)	1:29:A:LEU:HD23	1:56:A:ASN:H	2	0.7
(2,1147)	1:122:A:LEU:HD13	1:93:A:PRO:HB3	8	0.7
(2,1102)	1:11:A:LEU:HD21	1:12:A:ILE:H	5	0.7
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	19	0.7
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE2	13	0.7
(2,1078)	1:139:A:ARG:HD3	1:143:A:MET:HE2	14	0.7
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	1	0.7
(2,550)	1:143:A:MET:HE1	1:150:A:ILE:HG13	15	0.7
(2,480)	1:53:A:VAL:HG22	1:31:A:ILE:HD11	18	0.7
(2,346)	1:89:A:VAL:HG12	1:88:A:VAL:HA	20	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,270)	1:109:A:ILE:HD11	1:110:A:PHE:H	3	0.7
(2,247)	1:150:A:ILE:HG21	1:76:A:TRP:HZ2	4	0.7
(2,4954)	1:100:A:GLN:HG2	1:100:A:GLN:HE22	2	0.69
(2,4954)	1:100:A:GLN:HG2	1:100:A:GLN:HE22	7	0.69
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	4	0.69
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	12	0.69
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	16	0.69
(2,4653)	1:146:A:GLN:H	1:67:A:VAL:HG11	4	0.69
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG23	16	0.69
(2,4606)	1:77:A:LEU:H	1:125:A:PHE:HE2	15	0.69
(2,4564)	1:89:A:VAL:HG13	1:88:A:VAL:HA	8	0.69
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	5	0.69
(2,4550)	1:34:A:SER:HB2	1:52:A:ARG:HD3	1	0.69
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	2	0.69
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	19	0.69
(2,4506)	1:77:A:LEU:HD11	1:81:A:LEU:HA	3	0.69
(2,4492)	1:31:A:ILE:HD11	1:130:A:ALA:HA	18	0.69
(2,4474)	1:77:A:LEU:HD12	1:126:A:ILE:HB	13	0.69
(2,4471)	1:77:A:LEU:HD11	1:126:A:ILE:HA	5	0.69
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	3	0.69
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	17	0.69
(2,4435)	1:59:A:ILE:HD11	1:159:A:ILE:HG12	13	0.69
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD23	19	0.69
(2,4332)	1:141:A:LEU:HD11	1:132:A:HIS:HB3	16	0.69
(2,4319)	1:115:A:ILE:HG22	1:118:A:ARG:HB3	8	0.69
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD11	4	0.69
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	12	0.69
(2,4267)	1:52:A:ARG:HD2	1:33:A:VAL:HA	2	0.69
(2,4197)	1:160:A:ARG:HD3	1:59:A:ILE:H	7	0.69
(2,4182)	1:141:A:LEU:HD13	1:143:A:MET:HG2	20	0.69
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	16	0.69
(2,4119)	1:5:A:VAL:HG23	1:4:A:THR:HB	19	0.69
(2,4116)	1:135:A:ALA:HB3	1:88:A:VAL:H	3	0.69
(2,4084)	1:51:A:ILE:HD12	1:34:A:SER:H	10	0.69
(2,4081)	1:115:A:ILE:HD11	1:109:A:ILE:H	9	0.69
(2,4071)	1:81:A:LEU:HD12	1:141:A:LEU:H	11	0.69
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD23	12	0.69
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG21	1	0.69
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG23	12	0.69
(2,4004)	1:159:A:ILE:HD13	1:141:A:LEU:HG	3	0.69
(2,4004)	1:159:A:ILE:HD11	1:141:A:LEU:HG	17	0.69
(2,3765)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	16	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3765)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	19	0.69
(2,3764)	1:53:A:VAL:HG22	1:30:A:GLU:HG3	11	0.69
(2,3758)	1:47:A:THR:HG23	1:36:A:PRO:HG2	11	0.69
(2,3758)	1:47:A:THR:HG23	1:36:A:PRO:HG2	14	0.69
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG22	6	0.69
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG23	14	0.69
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG22	20	0.69
(2,3723)	1:89:A:VAL:HG11	1:82:A:GLU:H	12	0.69
(2,3723)	1:89:A:VAL:HG12	1:82:A:GLU:H	17	0.69
(2,3688)	1:150:A:ILE:HD12	1:73:A:ASP:H	5	0.69
(2,3687)	1:150:A:ILE:HD11	1:144:A:PHE:H	7	0.69
(2,3657)	1:66:A:THR:HG21	1:68:A:ARG:H	9	0.69
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	2	0.69
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	4	0.69
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG21	6	0.69
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	15	0.69
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG22	5	0.69
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG22	15	0.69
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG23	17	0.69
(2,3566)	1:1:A:THR:H	1:2:A:ALA:HB3	13	0.69
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE1	9	0.69
(2,3450)	1:130:A:ALA:HB1	1:132:A:HIS:H	1	0.69
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	1	0.69
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	10	0.69
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	20	0.69
(2,2470)	1:72:A:SER:H	1:75:A:GLU:HB3	19	0.69
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	20	0.69
(2,2372)	1:33:A:VAL:HG23	1:74:A:PHE:HD2	7	0.69
(2,2314)	1:77:A:LEU:HD23	1:125:A:PHE:HZ	13	0.69
(2,2314)	1:77:A:LEU:HD22	1:125:A:PHE:HZ	19	0.69
(2,2263)	1:134:A:LEU:HD21	1:135:A:ALA:HA	15	0.69
(2,2263)	1:134:A:LEU:HD23	1:135:A:ALA:HA	16	0.69
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD12	1	0.69
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD12	3	0.69
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD11	4	0.69
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD12	6	0.69
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD12	12	0.69
(2,2181)	1:53:A:VAL:HG13	1:31:A:ILE:HG12	1	0.69
(2,2078)	1:155:A:THR:HG21	1:139:A:ARG:HA	14	0.69
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	4	0.69
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	16	0.69
(2,2033)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	9	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2033)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	14	0.69
(2,2033)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	18	0.69
(2,2014)	1:134:A:LEU:HD11	1:137:A:ASN:HD22	1	0.69
(2,2014)	1:134:A:LEU:HD12	1:137:A:ASN:HD22	6	0.69
(2,2014)	1:134:A:LEU:HD11	1:137:A:ASN:HD22	19	0.69
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD12	4	0.69
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD11	18	0.69
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	2	0.69
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG23	11	0.69
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG22	15	0.69
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	1	0.69
(2,1504)	1:57:A:LEU:HD22	1:29:A:LEU:HD13	16	0.69
(2,1388)	1:41:A:VAL:HG22	1:42:A:GLY:HA3	1	0.69
(2,1330)	1:115:A:ILE:HG23	1:37:A:GLN:H	2	0.69
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG22	3	0.69
(2,1303)	1:31:A:ILE:HD13	1:31:A:ILE:HA	4	0.69
(2,1209)	1:29:A:LEU:HD21	1:56:A:ASN:H	20	0.69
(2,1136)	1:59:A:ILE:HD13	1:136:A:GLN:HB2	16	0.69
(2,1110)	1:148:A:GLU:HG3	1:149:A:ILE:HD13	15	0.69
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	11	0.69
(2,621)	1:89:A:VAL:HG12	1:129:A:VAL:HG22	3	0.69
(2,621)	1:89:A:VAL:HG13	1:129:A:VAL:HG23	9	0.69
(2,521)	1:122:A:LEU:HD12	1:49:A:TYR:HD2	16	0.69
(2,346)	1:89:A:VAL:HG13	1:88:A:VAL:HA	8	0.69
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD12	2	0.69
(2,270)	1:109:A:ILE:HD12	1:110:A:PHE:H	19	0.69
(2,247)	1:150:A:ILE:HG21	1:76:A:TRP:HZ2	14	0.69
(2,224)	1:155:A:THR:HG21	1:139:A:ARG:HG2	15	0.69
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	20	0.68
(2,4954)	1:100:A:GLN:HG3	1:100:A:GLN:HE22	3	0.68
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	1	0.68
(2,4852)	1:97:A:PHE:HB3	1:96:A:ALA:H	8	0.68
(2,4817)	1:49:A:TYR:H	1:33:A:VAL:HG22	10	0.68
(2,4725)	1:50:A:GLU:H	1:36:A:PRO:HB3	9	0.68
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	1	0.68
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG21	17	0.68
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	8	0.68
(2,4653)	1:146:A:GLN:H	1:67:A:VAL:HG13	11	0.68
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG3	6	0.68
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	2	0.68
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	12	0.68
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	4	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	9	0.68
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	14	0.68
(2,4506)	1:77:A:LEU:HD11	1:81:A:LEU:HA	13	0.68
(2,4506)	1:77:A:LEU:HD12	1:81:A:LEU:HA	17	0.68
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD11	6	0.68
(2,4493)	1:29:A:LEU:HD21	1:130:A:ALA:HA	2	0.68
(2,4493)	1:29:A:LEU:HD23	1:130:A:ALA:HA	11	0.68
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	16	0.68
(2,4435)	1:59:A:ILE:HD12	1:159:A:ILE:HG12	3	0.68
(2,4435)	1:159:A:ILE:HG23	1:159:A:ILE:HG12	10	0.68
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	8	0.68
(2,4325)	1:33:A:VAL:HG21	1:119:A:LYS:HG3	16	0.68
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	8	0.68
(2,4267)	1:52:A:ARG:HD2	1:33:A:VAL:HA	13	0.68
(2,4260)	1:55:A:THR:HG23	1:63:A:LYS:HE3	7	0.68
(2,4260)	1:55:A:THR:HG23	1:63:A:LYS:HE3	8	0.68
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	18	0.68
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	4	0.68
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	16	0.68
(2,4154)	1:57:A:LEU:HD22	1:29:A:LEU:HD21	10	0.68
(2,4119)	1:5:A:VAL:HG21	1:4:A:THR:HB	20	0.68
(2,4115)	1:135:A:ALA:HB2	1:136:A:GLN:HG3	19	0.68
(2,4111)	1:96:A:ALA:HB2	1:99:A:ARG:HD2	12	0.68
(2,4084)	1:51:A:ILE:HD13	1:34:A:SER:H	15	0.68
(2,4083)	1:126:A:ILE:HD11	1:74:A:PHE:HB3	9	0.68
(2,4083)	1:126:A:ILE:HD11	1:74:A:PHE:HB3	11	0.68
(2,4071)	1:81:A:LEU:HD11	1:141:A:LEU:H	17	0.68
(2,4065)	1:81:A:LEU:HD11	1:135:A:ALA:H	3	0.68
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD23	7	0.68
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD21	14	0.68
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG22	11	0.68
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG23	9	0.68
(2,4004)	1:159:A:ILE:HD11	1:141:A:LEU:HG	2	0.68
(2,4004)	1:159:A:ILE:HD13	1:141:A:LEU:HG	16	0.68
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	20	0.68
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG21	15	0.68
(2,3942)	1:115:A:ILE:HG22	1:119:A:LYS:HE2	3	0.68
(2,3942)	1:115:A:ILE:HG22	1:119:A:LYS:HE2	17	0.68
(2,3842)	1:159:A:ILE:HG22	1:142:A:HIS:HA	16	0.68
(2,3842)	1:159:A:ILE:HG23	1:142:A:HIS:HA	17	0.68
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD11	10	0.68
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD12	11	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG21	17	0.68
(2,3723)	1:89:A:VAL:HG13	1:82:A:GLU:H	15	0.68
(2,3709)	1:92:A:LEU:HD11	1:79:A:SER:HB3	13	0.68
(2,3660)	1:66:A:THR:HG22	1:52:A:ARG:HB2	6	0.68
(2,3657)	1:66:A:THR:HG21	1:68:A:ARG:H	5	0.68
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	13	0.68
(2,3618)	1:32:A:ASP:HB3	1:31:A:ILE:HG22	14	0.68
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG23	12	0.68
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	19	0.68
(2,3520)	1:161:A:HIS:HB3	1:162:A:ALA:H	8	0.68
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE1	10	0.68
(2,3450)	1:130:A:ALA:HB2	1:132:A:HIS:H	2	0.68
(2,3450)	1:130:A:ALA:HB3	1:132:A:HIS:H	19	0.68
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	7	0.68
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	14	0.68
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	7	0.68
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD21	3	0.68
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD22	5	0.68
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD22	13	0.68
(2,3020)	1:8:A:THR:HG21	1:9:A:ARG:H	14	0.68
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	20	0.68
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	2	0.68
(2,2747)	1:122:A:LEU:HD21	1:121:A:GLY:H	7	0.68
(2,2747)	1:122:A:LEU:HD21	1:121:A:GLY:H	9	0.68
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	14	0.68
(2,2580)	1:99:A:ARG:H	1:96:A:ALA:HB3	14	0.68
(2,2434)	1:19:A:ASN:H	1:19:A:ASN:HB2	6	0.68
(2,2372)	1:33:A:VAL:HG21	1:74:A:PHE:HD2	20	0.68
(2,2314)	1:77:A:LEU:HD21	1:125:A:PHE:HZ	4	0.68
(2,2287)	1:161:A:HIS:HB2	1:161:A:HIS:HD2	3	0.68
(2,2263)	1:134:A:LEU:HD21	1:135:A:ALA:HA	6	0.68
(2,2263)	1:134:A:LEU:HD23	1:135:A:ALA:HA	12	0.68
(2,2222)	1:78:A:ARG:HG2	1:92:A:LEU:HD11	1	0.68
(2,2078)	1:155:A:THR:HG22	1:139:A:ARG:HA	7	0.68
(2,2078)	1:155:A:THR:HG21	1:139:A:ARG:HA	10	0.68
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	13	0.68
(2,2033)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	1	0.68
(2,2033)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	4	0.68
(2,2033)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	10	0.68
(2,2033)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	15	0.68
(2,2014)	1:134:A:LEU:HD12	1:137:A:ASN:HD22	5	0.68
(2,1965)	1:149:A:ILE:HD11	1:150:A:ILE:HA	19	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1897)	1:115:A:ILE:HD11	1:116:A:GLU:HA	1	0.68
(2,1897)	1:115:A:ILE:HD11	1:116:A:GLU:HA	4	0.68
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	15	0.68
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	15	0.68
(2,1504)	1:57:A:LEU:HD21	1:29:A:LEU:HD13	2	0.68
(2,1303)	1:31:A:ILE:HD12	1:31:A:ILE:HA	2	0.68
(2,1303)	1:31:A:ILE:HD12	1:31:A:ILE:HA	18	0.68
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG23	10	0.68
(2,1209)	1:29:A:LEU:HD23	1:56:A:ASN:H	1	0.68
(2,1209)	1:29:A:LEU:HD23	1:56:A:ASN:H	7	0.68
(2,1134)	1:59:A:ILE:HD11	1:159:A:ILE:H	2	0.68
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD13	4	0.68
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD11	20	0.68
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	10	0.68
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	19	0.68
(2,629)	1:129:A:VAL:HG21	1:77:A:LEU:HD12	16	0.68
(2,270)	1:109:A:ILE:HD11	1:110:A:PHE:H	1	0.68
(2,270)	1:109:A:ILE:HD11	1:110:A:PHE:H	6	0.68
(2,270)	1:109:A:ILE:HD12	1:110:A:PHE:H	14	0.68
(2,223)	1:155:A:THR:HA	1:139:A:ARG:HG2	17	0.68
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	8	0.68
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	4	0.67
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	17	0.67
(2,4954)	1:100:A:GLN:HG3	1:100:A:GLN:HE22	5	0.67
(2,4954)	1:100:A:GLN:HG2	1:100:A:GLN:HE22	17	0.67
(2,4928)	1:137:A:ASN:HD21	1:160:A:ARG:HB2	2	0.67
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	19	0.67
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	12	0.67
(2,4852)	1:97:A:PHE:HB3	1:96:A:ALA:H	12	0.67
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	1	0.67
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	18	0.67
(2,4785)	1:23:A:GLY:H	1:58:A:PRO:HB2	1	0.67
(2,4785)	1:23:A:GLY:H	1:58:A:PRO:HB2	4	0.67
(2,4785)	1:23:A:GLY:H	1:24:A:PRO:HB3	12	0.67
(2,4785)	1:23:A:GLY:H	1:24:A:PRO:HB3	19	0.67
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG12	20	0.67
(2,4744)	1:55:A:THR:HG23	1:62:A:LEU:H	3	0.67
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG22	6	0.67
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	10	0.67
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	11	0.67
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	19	0.67
(2,4536)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	9	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4506)	1:77:A:LEU:HD12	1:81:A:LEU:HA	15	0.67
(2,4493)	1:29:A:LEU:HD23	1:130:A:ALA:HA	4	0.67
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD11	2	0.67
(2,4471)	1:77:A:LEU:HD12	1:126:A:ILE:HA	3	0.67
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	20	0.67
(2,4418)	1:77:A:LEU:HD11	1:144:A:PHE:H	17	0.67
(2,4414)	1:12:A:ILE:HB	1:11:A:LEU:HA	3	0.67
(2,4332)	1:141:A:LEU:HD11	1:132:A:HIS:HB3	4	0.67
(2,4325)	1:33:A:VAL:HG22	1:119:A:LYS:HG3	4	0.67
(2,4325)	1:33:A:VAL:HG21	1:119:A:LYS:HG3	7	0.67
(2,4298)	1:93:A:PRO:HD3	1:125:A:PHE:HE1	19	0.67
(2,4290)	1:54:A:LYS:HE2	1:64:A:GLU:HB2	5	0.67
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	6	0.67
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	19	0.67
(2,4193)	1:50:A:GLU:HG3	1:68:A:ARG:HD2	18	0.67
(2,4182)	1:141:A:LEU:HD12	1:143:A:MET:HG2	6	0.67
(2,4151)	1:57:A:LEU:HD23	1:131:A:GLY:HA3	14	0.67
(2,4139)	1:137:A:ASN:HB3	1:141:A:LEU:HD22	11	0.67
(2,4116)	1:135:A:ALA:HB2	1:88:A:VAL:H	9	0.67
(2,4096)	1:59:A:ILE:HG22	1:136:A:GLN:H	1	0.67
(2,4096)	1:59:A:ILE:HG23	1:136:A:GLN:H	5	0.67
(2,4096)	1:59:A:ILE:HG21	1:136:A:GLN:H	8	0.67
(2,4096)	1:59:A:ILE:HG22	1:136:A:GLN:H	12	0.67
(2,4096)	1:59:A:ILE:HG23	1:136:A:GLN:H	16	0.67
(2,4096)	1:59:A:ILE:HG23	1:136:A:GLN:H	17	0.67
(2,4084)	1:51:A:ILE:HD12	1:34:A:SER:H	5	0.67
(2,4083)	1:126:A:ILE:HD13	1:74:A:PHE:HB3	6	0.67
(2,4083)	1:126:A:ILE:HD11	1:74:A:PHE:HB3	8	0.67
(2,4081)	1:115:A:ILE:HD11	1:109:A:ILE:H	8	0.67
(2,4081)	1:115:A:ILE:HD11	1:109:A:ILE:H	12	0.67
(2,4071)	1:81:A:LEU:HD11	1:141:A:LEU:H	14	0.67
(2,4051)	1:29:A:LEU:HD21	1:145:A:LEU:HG	1	0.67
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD21	13	0.67
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD21	16	0.67
(2,4004)	1:159:A:ILE:HD12	1:141:A:LEU:HG	8	0.67
(2,3991)	1:26:A:SER:HB2	1:57:A:LEU:HD21	9	0.67
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	18	0.67
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG22	6	0.67
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	3	0.67
(2,3810)	1:129:A:VAL:HG12	1:128:A:LYS:HD2	2	0.67
(2,3803)	1:129:A:VAL:HG22	1:125:A:PHE:HD2	15	0.67
(2,3765)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	12	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3765)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	20	0.67
(2,3762)	1:53:A:VAL:HG21	1:64:A:GLU:HB3	10	0.67
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG21	4	0.67
(2,3687)	1:150:A:ILE:HD13	1:144:A:PHE:H	20	0.67
(2,3657)	1:66:A:THR:HG22	1:68:A:ARG:H	8	0.67
(2,3657)	1:66:A:THR:HG23	1:68:A:ARG:H	10	0.67
(2,3657)	1:66:A:THR:HG23	1:68:A:ARG:H	19	0.67
(2,3640)	1:79:A:SER:HB2	1:82:A:GLU:HB2	19	0.67
(2,3572)	1:152:A:LYS:HG3	1:76:A:TRP:HE1	12	0.67
(2,3571)	1:76:A:TRP:HE1	1:150:A:ILE:HG13	16	0.67
(2,3566)	1:1:A:THR:H	1:2:A:ALA:HB1	7	0.67
(2,3450)	1:130:A:ALA:HB1	1:132:A:HIS:H	20	0.67
(2,2747)	1:122:A:LEU:HD22	1:121:A:GLY:H	2	0.67
(2,2747)	1:122:A:LEU:HD22	1:121:A:GLY:H	4	0.67
(2,2747)	1:122:A:LEU:HD22	1:121:A:GLY:H	6	0.67
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB3	6	0.67
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	13	0.67
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	16	0.67
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	8	0.67
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	10	0.67
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	14	0.67
(2,2568)	1:108:A:GLY:H	1:107:A:ASP:HB3	7	0.67
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	19	0.67
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG21	18	0.67
(2,2384)	1:60:A:PHE:HB3	1:57:A:LEU:HB3	4	0.67
(2,2314)	1:77:A:LEU:HD23	1:125:A:PHE:HZ	10	0.67
(2,2314)	1:77:A:LEU:HD22	1:125:A:PHE:HZ	11	0.67
(2,2258)	1:130:A:ALA:HB2	1:136:A:GLN:HE22	5	0.67
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD13	9	0.67
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD12	13	0.67
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD13	18	0.67
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD11	19	0.67
(2,2181)	1:53:A:VAL:HG12	1:31:A:ILE:HG12	12	0.67
(2,2078)	1:155:A:THR:HG22	1:139:A:ARG:HA	6	0.67
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	1	0.67
(2,2033)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	2	0.67
(2,1897)	1:115:A:ILE:HD12	1:116:A:GLU:HA	9	0.67
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG21	10	0.67
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD23	4	0.67
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD12	11	0.67
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD11	15	0.67
(2,1342)	1:59:A:ILE:HG23	1:136:A:GLN:HB2	5	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1330)	1:115:A:ILE:HG23	1:37:A:GLN:H	17	0.67
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG22	8	0.67
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG23	13	0.67
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG23	19	0.67
(2,1312)	1:149:A:ILE:HG21	1:151:A:ASP:H	4	0.67
(2,1303)	1:31:A:ILE:HD13	1:31:A:ILE:HA	1	0.67
(2,1303)	1:31:A:ILE:HD13	1:31:A:ILE:HA	9	0.67
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG23	2	0.67
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG22	5	0.67
(2,1209)	1:29:A:LEU:HD21	1:56:A:ASN:H	3	0.67
(2,1209)	1:29:A:LEU:HD21	1:56:A:ASN:H	5	0.67
(2,1209)	1:29:A:LEU:HD21	1:56:A:ASN:H	13	0.67
(2,1209)	1:29:A:LEU:HD23	1:56:A:ASN:H	19	0.67
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	9	0.67
(2,1147)	1:122:A:LEU:HD13	1:93:A:PRO:HB3	7	0.67
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	17	0.67
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	1	0.67
(2,628)	1:129:A:VAL:HG13	1:77:A:LEU:HD12	11	0.67
(2,550)	1:143:A:MET:HE2	1:150:A:ILE:HG13	9	0.67
(2,510)	1:122:A:LEU:HD13	1:92:A:LEU:HD11	14	0.67
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD13	20	0.67
(2,491)	1:126:A:ILE:HG22	1:123:A:GLU:HG2	8	0.67
(2,491)	1:126:A:ILE:HG21	1:123:A:GLU:HG2	11	0.67
(2,480)	1:53:A:VAL:HG21	1:31:A:ILE:HD12	9	0.67
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD12	8	0.67
(2,270)	1:109:A:ILE:HD11	1:110:A:PHE:H	15	0.67
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	6	0.66
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	14	0.66
(2,4744)	1:55:A:THR:HG23	1:62:A:LEU:H	8	0.66
(2,4744)	1:55:A:THR:HG23	1:62:A:LEU:H	16	0.66
(2,4714)	1:101:A:LEU:HD23	1:101:A:LEU:H	2	0.66
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG21	10	0.66
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	5	0.66
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	6	0.66
(2,4606)	1:77:A:LEU:H	1:125:A:PHE:HE2	2	0.66
(2,4581)	1:147:A:ASP:HB2	1:148:A:GLU:HA	10	0.66
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	13	0.66
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	18	0.66
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	20	0.66
(2,4570)	1:149:A:ILE:HG21	1:148:A:GLU:HA	1	0.66
(2,4566)	1:157:A:SER:HB2	1:139:A:ARG:HD2	14	0.66
(2,4564)	1:89:A:VAL:HG13	1:88:A:VAL:HA	13	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD21	13	0.66
(2,4506)	1:77:A:LEU:HD11	1:81:A:LEU:HA	12	0.66
(2,4474)	1:77:A:LEU:HD11	1:126:A:ILE:HB	4	0.66
(2,4474)	1:77:A:LEU:HD12	1:141:A:LEU:HB3	7	0.66
(2,4474)	1:77:A:LEU:HD13	1:126:A:ILE:HB	18	0.66
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG12	14	0.66
(2,4418)	1:77:A:LEU:HD11	1:144:A:PHE:H	15	0.66
(2,4396)	1:61:A:LYS:HD3	1:61:A:LYS:HA	4	0.66
(2,4359)	1:157:A:SER:HB3	1:158:A:LYS:HD3	10	0.66
(2,4319)	1:115:A:ILE:HG23	1:118:A:ARG:HB3	15	0.66
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	6	0.66
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	17	0.66
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	11	0.66
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG22	20	0.66
(2,4154)	1:57:A:LEU:HD21	1:29:A:LEU:HD23	2	0.66
(2,4116)	1:135:A:ALA:HB1	1:88:A:VAL:H	12	0.66
(2,4116)	1:135:A:ALA:HB2	1:88:A:VAL:H	14	0.66
(2,4116)	1:135:A:ALA:HB1	1:88:A:VAL:H	15	0.66
(2,4116)	1:135:A:ALA:HB1	1:88:A:VAL:H	16	0.66
(2,4096)	1:59:A:ILE:HG21	1:136:A:GLN:H	14	0.66
(2,4084)	1:51:A:ILE:HD11	1:49:A:TYR:H	7	0.66
(2,4084)	1:51:A:ILE:HD12	1:34:A:SER:H	9	0.66
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD23	1	0.66
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD21	9	0.66
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD22	17	0.66
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD21	20	0.66
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG23	6	0.66
(2,4004)	1:159:A:ILE:HD11	1:141:A:LEU:HG	4	0.66
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	20	0.66
(2,3847)	1:159:A:ILE:HG21	1:136:A:GLN:HB2	3	0.66
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD13	3	0.66
(2,3776)	1:39:A:VAL:HG11	1:46:A:PHE:HZ	11	0.66
(2,3772)	1:126:A:ILE:HG21	1:32:A:ASP:HA	4	0.66
(2,3765)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	3	0.66
(2,3755)	1:48:A:THR:HG23	1:46:A:PHE:HB2	5	0.66
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG21	11	0.66
(2,3723)	1:89:A:VAL:HG13	1:82:A:GLU:H	14	0.66
(2,3706)	1:92:A:LEU:HD13	1:125:A:PHE:HE1	14	0.66
(2,3657)	1:66:A:THR:HG21	1:68:A:ARG:H	12	0.66
(2,3657)	1:66:A:THR:HG23	1:68:A:ARG:H	14	0.66
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	13	0.66
(2,3571)	1:76:A:TRP:HE1	1:150:A:ILE:HG13	20	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG21	4	0.66
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG23	7	0.66
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE1	1	0.66
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE2	8	0.66
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD12	3	0.66
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD11	19	0.66
(2,3423)	1:125:A:PHE:H	1:123:A:GLU:HG2	16	0.66
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	2	0.66
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	14	0.66
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	5	0.66
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	5	0.66
(2,2782)	1:44:A:GLY:HA2	1:41:A:VAL:H	3	0.66
(2,2747)	1:122:A:LEU:HD21	1:121:A:GLY:H	1	0.66
(2,2747)	1:122:A:LEU:HD22	1:121:A:GLY:H	8	0.66
(2,2747)	1:122:A:LEU:HD22	1:121:A:GLY:H	17	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	1	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	2	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	3	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	5	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	7	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	8	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	10	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	12	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	15	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	17	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	18	0.66
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	20	0.66
(2,2521)	1:83:A:ARG:H	1:85:A:SER:HB2	7	0.66
(2,2410)	1:109:A:ILE:HG21	1:114:A:PHE:HB2	13	0.66
(2,2210)	1:77:A:LEU:HD13	1:144:A:PHE:HD2	6	0.66
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD11	2	0.66
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD12	8	0.66
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD13	15	0.66
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD13	20	0.66
(2,2197)	1:126:A:ILE:HD13	1:77:A:LEU:HD12	5	0.66
(2,2181)	1:53:A:VAL:HG13	1:31:A:ILE:HG12	5	0.66
(2,2181)	1:53:A:VAL:HG13	1:31:A:ILE:HG12	16	0.66
(2,2078)	1:155:A:THR:HG21	1:139:A:ARG:HA	1	0.66
(2,2078)	1:155:A:THR:HG23	1:139:A:ARG:HA	13	0.66
(2,2078)	1:155:A:THR:HG21	1:139:A:ARG:HA	15	0.66
(2,2078)	1:155:A:THR:HG21	1:139:A:ARG:HA	20	0.66
(2,2033)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	16	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2033)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	19	0.66
(2,1788)	1:83:A:ARG:HG3	1:82:A:GLU:H	19	0.66
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	17	0.66
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	4	0.66
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG21	14	0.66
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD13	20	0.66
(2,1303)	1:31:A:ILE:HD11	1:31:A:ILE:HA	5	0.66
(2,1303)	1:31:A:ILE:HD12	1:31:A:ILE:HA	12	0.66
(2,1303)	1:31:A:ILE:HD11	1:31:A:ILE:HA	14	0.66
(2,1303)	1:31:A:ILE:HD12	1:31:A:ILE:HA	15	0.66
(2,1209)	1:29:A:LEU:HD21	1:56:A:ASN:H	14	0.66
(2,1209)	1:29:A:LEU:HD21	1:56:A:ASN:H	16	0.66
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	12	0.66
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	16	0.66
(2,1063)	1:159:A:ILE:HD13	1:142:A:HIS:HB3	18	0.66
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG11	6	0.66
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	14	0.66
(2,621)	1:89:A:VAL:HG11	1:129:A:VAL:HG21	5	0.66
(2,621)	1:89:A:VAL:HG11	1:129:A:VAL:HG21	6	0.66
(2,621)	1:89:A:VAL:HG12	1:129:A:VAL:HG21	7	0.66
(2,621)	1:89:A:VAL:HG13	1:129:A:VAL:HG22	17	0.66
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	1	0.66
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	6	0.66
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	13	0.66
(2,550)	1:143:A:MET:HE3	1:150:A:ILE:HG13	17	0.66
(2,550)	1:143:A:MET:HE3	1:150:A:ILE:HG13	20	0.66
(2,549)	1:143:A:MET:HE2	1:150:A:ILE:HG12	18	0.66
(2,346)	1:89:A:VAL:HG13	1:88:A:VAL:HA	13	0.66
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD13	4	0.66
(2,247)	1:150:A:ILE:HG21	1:76:A:TRP:HZ2	5	0.66
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG23	12	0.66
(2,224)	1:155:A:THR:HG23	1:139:A:ARG:HG2	17	0.66
(2,193)	1:159:A:ILE:HA	1:160:A:ARG:HD3	10	0.66
(2,160)	1:65:A:SER:HB2	1:62:A:LEU:HD22	6	0.66
(2,4954)	1:100:A:GLN:HG2	1:100:A:GLN:HE22	4	0.65
(2,4954)	1:100:A:GLN:HG2	1:100:A:GLN:HE22	6	0.65
(2,4891)	1:143:A:MET:H	1:150:A:ILE:HD12	16	0.65
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD11	17	0.65
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	3	0.65
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG22	16	0.65
(2,4570)	1:149:A:ILE:HD12	1:148:A:GLU:HA	3	0.65
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	20	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	17	0.65
(2,4506)	1:77:A:LEU:HD11	1:81:A:LEU:HA	1	0.65
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD13	1	0.65
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD13	16	0.65
(2,4475)	1:126:A:ILE:HD11	1:77:A:LEU:HD12	8	0.65
(2,4475)	1:141:A:LEU:HD13	1:77:A:LEU:HD13	12	0.65
(2,4473)	1:77:A:LEU:HD12	1:144:A:PHE:HB2	5	0.65
(2,4471)	1:77:A:LEU:HD12	1:126:A:ILE:HA	6	0.65
(2,4471)	1:77:A:LEU:HD11	1:141:A:LEU:HA	9	0.65
(2,4332)	1:141:A:LEU:HD11	1:132:A:HIS:HB3	12	0.65
(2,4311)	1:10:A:ARG:HB3	1:10:A:ARG:HD3	14	0.65
(2,4298)	1:93:A:PRO:HD3	1:74:A:PHE:HD2	17	0.65
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	8	0.65
(2,4260)	1:55:A:THR:HG23	1:63:A:LYS:HE3	11	0.65
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG23	8	0.65
(2,4209)	1:61:A:LYS:HE3	1:62:A:LEU:HD11	7	0.65
(2,4193)	1:50:A:GLU:HG3	1:68:A:ARG:HD2	14	0.65
(2,4154)	1:57:A:LEU:HD21	1:29:A:LEU:HD21	3	0.65
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD21	13	0.65
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD23	19	0.65
(2,4119)	1:5:A:VAL:HG21	1:4:A:THR:HB	10	0.65
(2,4116)	1:135:A:ALA:HB2	1:88:A:VAL:H	6	0.65
(2,4096)	1:59:A:ILE:HG21	1:136:A:GLN:H	7	0.65
(2,4084)	1:51:A:ILE:HD12	1:49:A:TYR:H	14	0.65
(2,4081)	1:115:A:ILE:HD12	1:109:A:ILE:H	13	0.65
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD23	2	0.65
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD22	11	0.65
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD23	18	0.65
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG23	6	0.65
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	6	0.65
(2,3991)	1:26:A:SER:HB2	1:57:A:LEU:HD22	6	0.65
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG22	2	0.65
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	13	0.65
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG23	3	0.65
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG22	9	0.65
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	9	0.65
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	16	0.65
(2,3843)	1:55:A:THR:HG21	1:55:A:THR:HA	7	0.65
(2,3764)	1:53:A:VAL:HG21	1:30:A:GLU:HG3	12	0.65
(2,3762)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	15	0.65
(2,3754)	1:145:A:LEU:HA	1:145:A:LEU:HD13	20	0.65
(2,3691)	1:150:A:ILE:HD12	1:143:A:MET:HB2	16	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3688)	1:150:A:ILE:HD13	1:73:A:ASP:H	13	0.65
(2,3687)	1:150:A:ILE:HD12	1:144:A:PHE:H	12	0.65
(2,3660)	1:66:A:THR:HG23	1:52:A:ARG:HB2	3	0.65
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	2	0.65
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG21	2	0.65
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG22	6	0.65
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG21	17	0.65
(2,3450)	1:130:A:ALA:HB1	1:132:A:HIS:H	12	0.65
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	7	0.65
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD21	18	0.65
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	19	0.65
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD23	10	0.65
(2,3020)	1:8:A:THR:HG22	1:9:A:ARG:H	16	0.65
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	7	0.65
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	19	0.65
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	19	0.65
(2,2754)	1:18:A:LEU:H	1:17:A:ASN:HD22	9	0.65
(2,2754)	1:18:A:LEU:H	1:17:A:ASN:HD22	11	0.65
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	8	0.65
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	6	0.65
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	11	0.65
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	14	0.65
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	19	0.65
(2,2314)	1:77:A:LEU:HD23	1:125:A:PHE:HZ	8	0.65
(2,2312)	1:77:A:LEU:HD22	1:144:A:PHE:HZ	13	0.65
(2,2312)	1:77:A:LEU:HD22	1:144:A:PHE:HZ	20	0.65
(2,2263)	1:134:A:LEU:HD23	1:135:A:ALA:HA	8	0.65
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD13	10	0.65
(2,2078)	1:155:A:THR:HG23	1:139:A:ARG:HA	9	0.65
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	17	0.65
(2,1897)	1:115:A:ILE:HD13	1:116:A:GLU:HA	3	0.65
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	7	0.65
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	17	0.65
(2,1672)	1:31:A:ILE:HG21	1:127:A:ASN:H	1	0.65
(2,1672)	1:31:A:ILE:HG22	1:127:A:ASN:H	6	0.65
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	7	0.65
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG22	8	0.65
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD13	4	0.65
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD13	13	0.65
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG21	14	0.65
(2,1303)	1:31:A:ILE:HD12	1:31:A:ILE:HA	10	0.65
(2,1303)	1:31:A:ILE:HD11	1:31:A:ILE:HA	20	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1282)	1:31:A:ILE:HD11	1:30:A:GLU:H	12	0.65
(2,1245)	1:81:A:LEU:HD21	1:137:A:ASN:H	4	0.65
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	4	0.65
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	14	0.65
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	15	0.65
(2,1101)	1:11:A:LEU:HD12	1:12:A:ILE:H	1	0.65
(2,1101)	1:11:A:LEU:HD13	1:12:A:ILE:H	19	0.65
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	10	0.65
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	20	0.65
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	15	0.65
(2,1020)	1:148:A:GLU:HB3	1:67:A:VAL:HG11	10	0.65
(2,621)	1:89:A:VAL:HG12	1:129:A:VAL:HG21	20	0.65
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	16	0.65
(2,550)	1:143:A:MET:HE3	1:150:A:ILE:HG13	16	0.65
(2,491)	1:126:A:ILE:HG23	1:123:A:GLU:HG2	5	0.65
(2,480)	1:53:A:VAL:HG22	1:31:A:ILE:HD11	10	0.65
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD13	10	0.65
(2,223)	1:155:A:THR:HA	1:139:A:ARG:HG2	15	0.65
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	8	0.64
(2,4852)	1:97:A:PHE:HB3	1:96:A:ALA:H	16	0.64
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	4	0.64
(2,4772)	1:10:A:ARG:H	1:10:A:ARG:HD3	14	0.64
(2,4701)	1:44:A:GLY:H	1:46:A:PHE:HD1	3	0.64
(2,4701)	1:44:A:GLY:H	1:46:A:PHE:HD1	4	0.64
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	20	0.64
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	17	0.64
(2,4564)	1:89:A:VAL:HG11	1:88:A:VAL:HA	6	0.64
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	11	0.64
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	14	0.64
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	8	0.64
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD13	3	0.64
(2,4474)	1:77:A:LEU:HD12	1:126:A:ILE:HB	12	0.64
(2,4469)	1:77:A:LEU:HD13	1:130:A:ALA:HB3	8	0.64
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	7	0.64
(2,4434)	1:29:A:LEU:HD13	1:30:A:GLU:HB3	7	0.64
(2,4365)	1:145:A:LEU:HD22	1:146:A:GLN:HG3	10	0.64
(2,4325)	1:33:A:VAL:HG23	1:119:A:LYS:HG3	17	0.64
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	17	0.64
(2,4260)	1:55:A:THR:HG21	1:63:A:LYS:HE3	14	0.64
(2,4260)	1:55:A:THR:HG22	1:63:A:LYS:HE3	15	0.64
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	4	0.64
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	3	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD21	8	0.64
(2,4154)	1:57:A:LEU:HD22	1:29:A:LEU:HD21	16	0.64
(2,4154)	1:57:A:LEU:HD21	1:29:A:LEU:HD22	17	0.64
(2,4151)	1:57:A:LEU:HD23	1:131:A:GLY:HA3	13	0.64
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD13	16	0.64
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD13	18	0.64
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	3	0.64
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	19	0.64
(2,4119)	1:5:A:VAL:HG23	1:4:A:THR:HB	6	0.64
(2,4111)	1:96:A:ALA:HB2	1:99:A:ARG:HD3	7	0.64
(2,4084)	1:51:A:ILE:HD13	1:34:A:SER:H	17	0.64
(2,4083)	1:126:A:ILE:HD12	1:74:A:PHE:HB3	4	0.64
(2,4057)	1:29:A:LEU:HD23	1:136:A:GLN:HG2	19	0.64
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD21	3	0.64
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD21	5	0.64
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD21	8	0.64
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD21	10	0.64
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD23	19	0.64
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	18	0.64
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB2	11	0.64
(2,4015)	1:43:A:ARG:HG2	1:106:A:ASP:HB2	13	0.64
(2,4004)	1:159:A:ILE:HD12	1:141:A:LEU:HG	11	0.64
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG23	19	0.64
(2,3943)	1:115:A:ILE:HD13	1:112:A:ASP:HB2	8	0.64
(2,3943)	1:115:A:ILE:HD13	1:112:A:ASP:HB2	11	0.64
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	19	0.64
(2,3843)	1:55:A:THR:HG22	1:55:A:THR:HA	1	0.64
(2,3843)	1:55:A:THR:HG21	1:55:A:THR:HA	3	0.64
(2,3843)	1:55:A:THR:HG22	1:55:A:THR:HA	5	0.64
(2,3843)	1:55:A:THR:HG23	1:55:A:THR:HA	8	0.64
(2,3843)	1:55:A:THR:HG23	1:55:A:THR:HA	9	0.64
(2,3843)	1:55:A:THR:HG21	1:55:A:THR:HA	11	0.64
(2,3843)	1:55:A:THR:HG21	1:55:A:THR:HA	12	0.64
(2,3843)	1:55:A:THR:HG21	1:55:A:THR:HA	14	0.64
(2,3810)	1:129:A:VAL:HG13	1:128:A:LYS:HD2	4	0.64
(2,3765)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	5	0.64
(2,3764)	1:53:A:VAL:HG21	1:30:A:GLU:HG3	17	0.64
(2,3754)	1:145:A:LEU:HA	1:53:A:VAL:HG13	5	0.64
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG23	10	0.64
(2,3657)	1:66:A:THR:HG23	1:68:A:ARG:H	6	0.64
(2,3657)	1:66:A:THR:HG22	1:68:A:ARG:H	7	0.64
(2,3657)	1:66:A:THR:HG22	1:68:A:ARG:H	15	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	4	0.64
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG21	9	0.64
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG22	16	0.64
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	12	0.64
(2,3020)	1:8:A:THR:HG21	1:9:A:ARG:H	3	0.64
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	4	0.64
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	11	0.64
(2,2977)	1:3:A:GLU:HB2	1:3:A:GLU:H	3	0.64
(2,2747)	1:122:A:LEU:HD23	1:121:A:GLY:H	11	0.64
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	7	0.64
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	16	0.64
(2,2705)	1:124:A:GLN:HG3	1:124:A:GLN:HE22	18	0.64
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	4	0.64
(2,2372)	1:33:A:VAL:HG21	1:74:A:PHE:HD2	8	0.64
(2,2372)	1:33:A:VAL:HG23	1:74:A:PHE:HD2	9	0.64
(2,2370)	1:145:A:LEU:HD23	1:136:A:GLN:HE22	20	0.64
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD23	2	0.64
(2,2292)	1:77:A:LEU:HD13	1:74:A:PHE:HA	7	0.64
(2,2288)	1:162:A:ALA:HB3	1:161:A:HIS:HB2	5	0.64
(2,2263)	1:134:A:LEU:HD21	1:135:A:ALA:HA	19	0.64
(2,2258)	1:130:A:ALA:HB3	1:136:A:GLN:HE22	16	0.64
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD13	14	0.64
(2,2181)	1:53:A:VAL:HG13	1:31:A:ILE:HG12	18	0.64
(2,2105)	1:14:A:LYS:HE3	1:13:A:THR:H	1	0.64
(2,2078)	1:155:A:THR:HG21	1:139:A:ARG:HA	11	0.64
(2,2078)	1:155:A:THR:HG23	1:139:A:ARG:HA	18	0.64
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	2	0.64
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	14	0.64
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	20	0.64
(2,2033)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	12	0.64
(2,2033)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	20	0.64
(2,2014)	1:134:A:LEU:HD12	1:137:A:ASN:HD22	12	0.64
(2,2014)	1:134:A:LEU:HD12	1:137:A:ASN:HD22	13	0.64
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD13	10	0.64
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	20	0.64
(2,1388)	1:41:A:VAL:HG21	1:42:A:GLY:HA3	4	0.64
(2,1209)	1:29:A:LEU:HD23	1:56:A:ASN:H	12	0.64
(2,1209)	1:29:A:LEU:HD22	1:56:A:ASN:H	17	0.64
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	8	0.64
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG21	20	0.64
(2,1110)	1:148:A:GLU:HG3	1:149:A:ILE:HD13	20	0.64
(2,918)	1:109:A:ILE:HG21	1:114:A:PHE:HE2	20	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	1	0.64
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	6	0.64
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	8	0.64
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	9	0.64
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	12	0.64
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	14	0.64
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	17	0.64
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	18	0.64
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	20	0.64
(2,650)	1:128:A:LYS:HG3	1:129:A:VAL:HG12	7	0.64
(2,628)	1:129:A:VAL:HG11	1:77:A:LEU:HD12	13	0.64
(2,621)	1:89:A:VAL:HG13	1:129:A:VAL:HG21	18	0.64
(2,510)	1:122:A:LEU:HD13	1:92:A:LEU:HD12	5	0.64
(2,346)	1:89:A:VAL:HG11	1:88:A:VAL:HA	6	0.64
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	15	0.63
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	16	0.63
(2,4954)	1:100:A:GLN:HG3	1:100:A:GLN:HE22	13	0.63
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	4	0.63
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	20	0.63
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	20	0.63
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	6	0.63
(2,4782)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	18	0.63
(2,4782)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	20	0.63
(2,4725)	1:50:A:GLU:H	1:37:A:GLN:HB2	12	0.63
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	15	0.63
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD22	18	0.63
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	15	0.63
(2,4475)	1:141:A:LEU:HD11	1:77:A:LEU:HD11	18	0.63
(2,4434)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	13	0.63
(2,4414)	1:12:A:ILE:HB	1:11:A:LEU:HA	11	0.63
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	11	0.63
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	12	0.63
(2,4332)	1:141:A:LEU:HD13	1:132:A:HIS:HB3	8	0.63
(2,4298)	1:93:A:PRO:HD3	1:74:A:PHE:HD2	15	0.63
(2,4260)	1:55:A:THR:HG22	1:63:A:LYS:HE3	1	0.63
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	2	0.63
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	14	0.63
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD21	14	0.63
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD12	7	0.63
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD12	14	0.63
(2,4084)	1:51:A:ILE:HD12	1:34:A:SER:H	16	0.63
(2,4084)	1:51:A:ILE:HD12	1:34:A:SER:H	18	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4065)	1:81:A:LEU:HD12	1:135:A:ALA:H	17	0.63
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD22	6	0.63
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG21	9	0.63
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG22	17	0.63
(2,4023)	1:12:A:ILE:HD12	1:10:A:ARG:HD3	9	0.63
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	13	0.63
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG22	12	0.63
(2,3943)	1:115:A:ILE:HD13	1:112:A:ASP:HB2	20	0.63
(2,3942)	1:115:A:ILE:HG22	1:119:A:LYS:HE2	10	0.63
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	7	0.63
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	3	0.63
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG22	13	0.63
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG21	18	0.63
(2,3843)	1:55:A:THR:HG22	1:55:A:THR:HA	2	0.63
(2,3843)	1:55:A:THR:HG21	1:55:A:THR:HA	10	0.63
(2,3843)	1:55:A:THR:HG23	1:55:A:THR:HA	15	0.63
(2,3843)	1:55:A:THR:HG22	1:55:A:THR:HA	16	0.63
(2,3843)	1:55:A:THR:HG21	1:55:A:THR:HA	18	0.63
(2,3843)	1:55:A:THR:HG23	1:55:A:THR:HA	19	0.63
(2,3842)	1:159:A:ILE:HG22	1:142:A:HIS:HA	5	0.63
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD12	9	0.63
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD11	20	0.63
(2,3803)	1:129:A:VAL:HG21	1:125:A:PHE:HD2	5	0.63
(2,3776)	1:39:A:VAL:HG11	1:46:A:PHE:HZ	19	0.63
(2,3772)	1:126:A:ILE:HG23	1:32:A:ASP:HA	18	0.63
(2,3765)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	11	0.63
(2,3764)	1:53:A:VAL:HG22	1:30:A:GLU:HG3	16	0.63
(2,3762)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	19	0.63
(2,3687)	1:150:A:ILE:HD11	1:144:A:PHE:H	17	0.63
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG23	1	0.63
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	17	0.63
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	17	0.63
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG22	11	0.63
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD11	17	0.63
(2,3450)	1:130:A:ALA:HB1	1:132:A:HIS:H	7	0.63
(2,3450)	1:130:A:ALA:HB2	1:132:A:HIS:H	18	0.63
(2,3042)	1:14:A:LYS:H	1:14:A:LYS:HD3	12	0.63
(2,3024)	1:11:A:LEU:HD12	1:10:A:ARG:H	3	0.63
(2,3020)	1:8:A:THR:HG21	1:9:A:ARG:H	2	0.63
(2,3020)	1:8:A:THR:HG23	1:9:A:ARG:H	12	0.63
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	8	0.63
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	20	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	6	0.63
(2,2372)	1:33:A:VAL:HG22	1:74:A:PHE:HD2	17	0.63
(2,2370)	1:145:A:LEU:HD22	1:136:A:GLN:HE22	7	0.63
(2,2197)	1:126:A:ILE:HD11	1:77:A:LEU:HD12	6	0.63
(2,2181)	1:53:A:VAL:HG13	1:31:A:ILE:HG12	10	0.63
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	9	0.63
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	18	0.63
(2,2033)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	3	0.63
(2,2014)	1:134:A:LEU:HD12	1:137:A:ASN:HD22	3	0.63
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG22	18	0.63
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD23	6	0.63
(2,1897)	1:115:A:ILE:HD13	1:116:A:GLU:HA	2	0.63
(2,1897)	1:115:A:ILE:HD13	1:116:A:GLU:HA	13	0.63
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	8	0.63
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	11	0.63
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	13	0.63
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	9	0.63
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	18	0.63
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	14	0.63
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	1	0.63
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG23	1	0.63
(2,1295)	1:51:A:ILE:HD13	1:122:A:LEU:HB2	16	0.63
(2,1282)	1:31:A:ILE:HD12	1:30:A:GLU:H	16	0.63
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG21	8	0.63
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	14	0.63
(2,1134)	1:59:A:ILE:HD11	1:159:A:ILE:H	6	0.63
(2,941)	1:109:A:ILE:HD13	1:107:A:ASP:HB3	19	0.63
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	2	0.63
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	3	0.63
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	4	0.63
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	5	0.63
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	7	0.63
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	10	0.63
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	11	0.63
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	13	0.63
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	15	0.63
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	16	0.63
(2,714)	1:120:A:GLN:HG3	1:120:A:GLN:HE22	19	0.63
(2,680)	1:55:A:THR:HG22	1:63:A:LYS:HB3	20	0.63
(2,628)	1:129:A:VAL:HG13	1:77:A:LEU:HD12	8	0.63
(2,621)	1:89:A:VAL:HG13	1:129:A:VAL:HG23	11	0.63
(2,621)	1:89:A:VAL:HG12	1:129:A:VAL:HG21	12	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,621)	1:89:A:VAL:HG11	1:129:A:VAL:HG21	14	0.63
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD12	3	0.63
(2,491)	1:126:A:ILE:HG23	1:123:A:GLU:HG2	3	0.63
(2,491)	1:126:A:ILE:HG23	1:123:A:GLU:HG2	14	0.63
(2,491)	1:126:A:ILE:HG23	1:123:A:GLU:HG2	15	0.63
(2,491)	1:126:A:ILE:HG23	1:123:A:GLU:HG2	20	0.63
(2,479)	1:53:A:VAL:HG22	1:55:A:THR:HG22	12	0.63
(2,479)	1:53:A:VAL:HG22	1:55:A:THR:HG23	20	0.63
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD12	1	0.63
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD12	13	0.63
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD11	14	0.63
(2,248)	1:150:A:ILE:HG22	1:144:A:PHE:HD2	11	0.63
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	3	0.62
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	17	0.62
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	3	0.62
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	6	0.62
(2,4852)	1:97:A:PHE:HB3	1:96:A:ALA:H	3	0.62
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	13	0.62
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	2	0.62
(2,4785)	1:23:A:GLY:H	1:58:A:PRO:HB2	2	0.62
(2,4782)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	2	0.62
(2,4727)	1:33:A:VAL:HG23	1:50:A:GLU:H	11	0.62
(2,4701)	1:44:A:GLY:H	1:46:A:PHE:HD1	10	0.62
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	11	0.62
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG3	4	0.62
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG3	20	0.62
(2,4506)	1:77:A:LEU:HD12	1:81:A:LEU:HA	14	0.62
(2,4506)	1:77:A:LEU:HD12	1:81:A:LEU:HA	18	0.62
(2,4503)	1:82:A:GLU:HG2	1:84:A:GLU:H	3	0.62
(2,4493)	1:29:A:LEU:HD21	1:130:A:ALA:HA	12	0.62
(2,4471)	1:77:A:LEU:HD11	1:126:A:ILE:HA	4	0.62
(2,4471)	1:77:A:LEU:HD13	1:126:A:ILE:HA	18	0.62
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	4	0.62
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	4	0.62
(2,4298)	1:93:A:PRO:HD3	1:125:A:PHE:HE1	14	0.62
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	19	0.62
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	16	0.62
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG23	3	0.62
(2,4204)	1:158:A:LYS:HD3	1:137:A:ASN:HD22	8	0.62
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	2	0.62
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	8	0.62
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	19	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4154)	1:57:A:LEU:HD21	1:29:A:LEU:HD21	5	0.62
(2,4144)	1:64:A:GLU:HG2	1:54:A:LYS:HE3	12	0.62
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD11	2	0.62
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HD3	2	0.62
(2,4122)	1:33:A:VAL:HG11	1:144:A:PHE:HE1	11	0.62
(2,4119)	1:5:A:VAL:HG22	1:4:A:THR:HB	15	0.62
(2,4116)	1:135:A:ALA:HB3	1:88:A:VAL:H	2	0.62
(2,4116)	1:135:A:ALA:HB3	1:88:A:VAL:H	4	0.62
(2,4116)	1:135:A:ALA:HB3	1:88:A:VAL:H	8	0.62
(2,4084)	1:51:A:ILE:HD13	1:49:A:TYR:H	4	0.62
(2,4071)	1:81:A:LEU:HD11	1:141:A:LEU:H	18	0.62
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG22	17	0.62
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG22	19	0.62
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG23	7	0.62
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB2	8	0.62
(2,4004)	1:159:A:ILE:HD13	1:141:A:LEU:HG	15	0.62
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG22	1	0.62
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG23	5	0.62
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG22	12	0.62
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG21	17	0.62
(2,3843)	1:55:A:THR:HG21	1:55:A:THR:HA	6	0.62
(2,3843)	1:55:A:THR:HG22	1:55:A:THR:HA	13	0.62
(2,3843)	1:55:A:THR:HG21	1:55:A:THR:HA	17	0.62
(2,3842)	1:159:A:ILE:HG21	1:136:A:GLN:HA	7	0.62
(2,3810)	1:129:A:VAL:HG12	1:128:A:LYS:HD2	14	0.62
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD11	16	0.62
(2,3772)	1:126:A:ILE:HG21	1:32:A:ASP:HA	15	0.62
(2,3765)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	13	0.62
(2,3764)	1:53:A:VAL:HG21	1:30:A:GLU:HG3	15	0.62
(2,3723)	1:89:A:VAL:HG13	1:82:A:GLU:H	10	0.62
(2,3687)	1:150:A:ILE:HD12	1:144:A:PHE:H	4	0.62
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	10	0.62
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	7	0.62
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG22	19	0.62
(2,3450)	1:130:A:ALA:HB2	1:132:A:HIS:H	11	0.62
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD11	1	0.62
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD11	5	0.62
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD13	19	0.62
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	16	0.62
(2,3045)	1:14:A:LYS:H	1:14:A:LYS:HG3	1	0.62
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	5	0.62
(2,3020)	1:8:A:THR:HG23	1:9:A:ARG:H	13	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3020)	1:8:A:THR:HG22	1:9:A:ARG:H	20	0.62
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	15	0.62
(2,2747)	1:122:A:LEU:HD22	1:121:A:GLY:H	18	0.62
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	11	0.62
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	18	0.62
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	19	0.62
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	10	0.62
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD23	1	0.62
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	3	0.62
(2,2372)	1:33:A:VAL:HG22	1:74:A:PHE:HD2	18	0.62
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	9	0.62
(2,2288)	1:162:A:ALA:HB3	1:161:A:HIS:HB2	20	0.62
(2,2263)	1:134:A:LEU:HD22	1:135:A:ALA:HA	1	0.62
(2,2210)	1:77:A:LEU:HD12	1:144:A:PHE:HD1	8	0.62
(2,2181)	1:53:A:VAL:HG11	1:31:A:ILE:HG12	9	0.62
(2,2181)	1:53:A:VAL:HG12	1:31:A:ILE:HG12	19	0.62
(2,2131)	1:29:A:LEU:HD23	1:136:A:GLN:HE21	15	0.62
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	6	0.62
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	11	0.62
(2,2014)	1:134:A:LEU:HD12	1:137:A:ASN:HD22	4	0.62
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG23	13	0.62
(2,1965)	1:149:A:ILE:HD13	1:150:A:ILE:HA	10	0.62
(2,1897)	1:115:A:ILE:HD12	1:116:A:GLU:HA	16	0.62
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	1	0.62
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	11	0.62
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	16	0.62
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG21	6	0.62
(2,1401)	1:39:A:VAL:HG22	1:46:A:PHE:HE2	2	0.62
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG23	4	0.62
(2,1303)	1:31:A:ILE:HD13	1:31:A:ILE:HA	7	0.62
(2,1282)	1:31:A:ILE:HD13	1:30:A:GLU:H	5	0.62
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG23	1	0.62
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	11	0.62
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	15	0.62
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	20	0.62
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD12	3	0.62
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD11	18	0.62
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	4	0.62
(2,748)	1:122:A:LEU:HD22	1:122:A:LEU:H	8	0.62
(2,748)	1:122:A:LEU:HD22	1:122:A:LEU:H	12	0.62
(2,748)	1:122:A:LEU:HD23	1:122:A:LEU:H	13	0.62
(2,650)	1:128:A:LYS:HG3	1:129:A:VAL:HG11	12	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,650)	1:128:A:LYS:HG3	1:129:A:VAL:HG11	18	0.62
(2,621)	1:89:A:VAL:HG11	1:129:A:VAL:HG23	16	0.62
(2,491)	1:126:A:ILE:HG21	1:123:A:GLU:HG2	2	0.62
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD13	6	0.62
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD12	11	0.62
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD13	12	0.62
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD11	17	0.62
(2,247)	1:150:A:ILE:HG22	1:76:A:TRP:HZ2	1	0.62
(2,247)	1:150:A:ILE:HG23	1:76:A:TRP:HZ2	8	0.62
(2,223)	1:155:A:THR:HA	1:139:A:ARG:HG2	12	0.62
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG22	3	0.62
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG21	5	0.62
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG23	11	0.62
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	11	0.61
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	18	0.61
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	12	0.61
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	15	0.61
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	11	0.61
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	14	0.61
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	8	0.61
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG12	6	0.61
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG21	11	0.61
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG3	7	0.61
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	15	0.61
(2,4570)	1:149:A:ILE:HD11	1:148:A:GLU:HA	12	0.61
(2,4570)	1:149:A:ILE:HD11	1:148:A:GLU:HA	19	0.61
(2,4570)	1:149:A:ILE:HD13	1:148:A:GLU:HA	20	0.61
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD22	9	0.61
(2,4506)	1:77:A:LEU:HD13	1:81:A:LEU:HA	5	0.61
(2,4493)	1:29:A:LEU:HD21	1:130:A:ALA:HA	15	0.61
(2,4493)	1:29:A:LEU:HD21	1:130:A:ALA:HA	18	0.61
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD12	11	0.61
(2,4471)	1:77:A:LEU:HD12	1:126:A:ILE:HA	12	0.61
(2,4441)	1:33:A:VAL:HG12	1:122:A:LEU:H	3	0.61
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG12	2	0.61
(2,4434)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	1	0.61
(2,4434)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	20	0.61
(2,4414)	1:12:A:ILE:HB	1:11:A:LEU:HA	8	0.61
(2,4414)	1:12:A:ILE:HB	1:11:A:LEU:HA	14	0.61
(2,4347)	1:145:A:LEU:HD21	1:144:A:PHE:HD1	12	0.61
(2,4341)	1:144:A:PHE:HA	1:148:A:GLU:HA	3	0.61
(2,4332)	1:141:A:LEU:HD12	1:132:A:HIS:HB3	11	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4298)	1:93:A:PRO:HD3	1:125:A:PHE:HE1	8	0.61
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	13	0.61
(2,4260)	1:55:A:THR:HG22	1:63:A:LYS:HE3	16	0.61
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	10	0.61
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD22	4	0.61
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD22	11	0.61
(2,4111)	1:96:A:ALA:HB1	1:99:A:ARG:HD2	6	0.61
(2,4103)	1:51:A:ILE:HG22	1:60:A:PHE:HE2	5	0.61
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD22	4	0.61
(2,4047)	1:29:A:LEU:HA	1:29:A:LEU:HD23	15	0.61
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG22	16	0.61
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG22	8	0.61
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG21	18	0.61
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	9	0.61
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG21	11	0.61
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	16	0.61
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	7	0.61
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	13	0.61
(2,3843)	1:55:A:THR:HG23	1:55:A:THR:HA	4	0.61
(2,3803)	1:129:A:VAL:HG21	1:125:A:PHE:HD2	14	0.61
(2,3793)	1:130:A:ALA:HB3	1:126:A:ILE:HD13	11	0.61
(2,3775)	1:126:A:ILE:HG23	1:31:A:ILE:HG22	7	0.61
(2,3772)	1:126:A:ILE:HG22	1:32:A:ASP:HA	2	0.61
(2,3765)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	7	0.61
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	1	0.61
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	5	0.61
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	6	0.61
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	8	0.61
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	10	0.61
(2,3723)	1:89:A:VAL:HG12	1:82:A:GLU:H	11	0.61
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD21	2	0.61
(2,3616)	1:32:A:ASP:HB2	1:52:A:ARG:HG3	9	0.61
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	12	0.61
(2,3520)	1:161:A:HIS:HB3	1:162:A:ALA:H	10	0.61
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG22	10	0.61
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD12	11	0.61
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD11	20	0.61
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	16	0.61
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD11	12	0.61
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	17	0.61
(2,3020)	1:8:A:THR:HG22	1:9:A:ARG:H	7	0.61
(2,2913)	1:115:A:ILE:HD12	1:37:A:GLN:H	9	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	3	0.61
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	13	0.61
(2,2579)	1:99:A:ARG:H	1:99:A:ARG:HG3	2	0.61
(2,2579)	1:99:A:ARG:H	1:99:A:ARG:HG3	4	0.61
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	16	0.61
(2,2338)	1:29:A:LEU:HD22	1:130:A:ALA:H	19	0.61
(2,2315)	1:77:A:LEU:HD22	1:144:A:PHE:H	9	0.61
(2,2263)	1:134:A:LEU:HD21	1:135:A:ALA:HA	13	0.61
(2,2209)	1:77:A:LEU:HB2	1:77:A:LEU:HD13	11	0.61
(2,2197)	1:126:A:ILE:HD11	1:77:A:LEU:HD13	17	0.61
(2,2181)	1:53:A:VAL:HG13	1:31:A:ILE:HG12	14	0.61
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	2	0.61
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	9	0.61
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	11	0.61
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	17	0.61
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	19	0.61
(2,2107)	1:98:A:LEU:HD12	1:97:A:PHE:HZ	4	0.61
(2,2107)	1:98:A:LEU:HD11	1:97:A:PHE:HZ	14	0.61
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	2	0.61
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	18	0.61
(2,2033)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	5	0.61
(2,2005)	1:51:A:ILE:HD13	1:69:A:ARG:HA	2	0.61
(2,1965)	1:149:A:ILE:HD13	1:150:A:ILE:HA	20	0.61
(2,1897)	1:115:A:ILE:HD13	1:116:A:GLU:HA	7	0.61
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	2	0.61
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD21	20	0.61
(2,1625)	1:160:A:ARG:HD3	1:159:A:ILE:HB	13	0.61
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG21	5	0.61
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD13	14	0.61
(2,1357)	1:51:A:ILE:HG23	1:34:A:SER:H	11	0.61
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG21	7	0.61
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG21	15	0.61
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG22	17	0.61
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	17	0.61
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	19	0.61
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG21	7	0.61
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	3	0.61
(2,1134)	1:59:A:ILE:HD11	1:159:A:ILE:H	9	0.61
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	12	0.61
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	14	0.61
(2,1116)	1:149:A:ILE:HD11	1:148:A:GLU:HA	18	0.61
(2,1110)	1:148:A:GLU:HG3	1:149:A:ILE:HD13	10	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1101)	1:11:A:LEU:HD13	1:12:A:ILE:H	2	0.61
(2,879)	1:113:A:ASN:HA	1:117:A:GLU:HG3	7	0.61
(2,650)	1:128:A:LYS:HG3	1:129:A:VAL:HG12	9	0.61
(2,650)	1:128:A:LYS:HG3	1:129:A:VAL:HG13	17	0.61
(2,621)	1:89:A:VAL:HG13	1:129:A:VAL:HG23	13	0.61
(2,491)	1:126:A:ILE:HG23	1:123:A:GLU:HG2	4	0.61
(2,491)	1:126:A:ILE:HG21	1:123:A:GLU:HG2	6	0.61
(2,491)	1:126:A:ILE:HG23	1:123:A:GLU:HG2	9	0.61
(2,491)	1:126:A:ILE:HG22	1:123:A:GLU:HG2	12	0.61
(2,480)	1:53:A:VAL:HG21	1:31:A:ILE:HD13	14	0.61
(2,479)	1:53:A:VAL:HG22	1:55:A:THR:HG21	19	0.61
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD11	7	0.61
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD11	18	0.61
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD12	19	0.61
(2,257)	1:150:A:ILE:HD13	1:152:A:LYS:HE2	16	0.61
(2,247)	1:150:A:ILE:HG22	1:76:A:TRP:HZ2	3	0.61
(2,247)	1:150:A:ILE:HG23	1:76:A:TRP:HZ2	6	0.61
(2,247)	1:150:A:ILE:HG22	1:76:A:TRP:HZ2	10	0.61
(2,223)	1:155:A:THR:HA	1:139:A:ARG:HG2	7	0.61
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG23	19	0.61
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	15	0.6
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	2	0.6
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	8	0.6
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD2	6	0.6
(2,4943)	1:140:A:CYS:H	1:161:A:HIS:HD2	15	0.6
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	7	0.6
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	19	0.6
(2,4807)	1:57:A:LEU:H	1:59:A:ILE:H	15	0.6
(2,4807)	1:57:A:LEU:H	1:28:A:PHE:HE2	16	0.6
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG21	8	0.6
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG12	15	0.6
(2,4760)	1:5:A:VAL:HG22	1:4:A:THR:H	15	0.6
(2,4727)	1:33:A:VAL:HG22	1:50:A:GLU:H	3	0.6
(2,4714)	1:101:A:LEU:HD22	1:101:A:LEU:H	5	0.6
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	8	0.6
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG22	8	0.6
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	12	0.6
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	3	0.6
(2,4570)	1:149:A:ILE:HD13	1:148:A:GLU:HA	10	0.6
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	14	0.6
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	15	0.6
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD23	15	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	14	0.6
(2,4493)	1:29:A:LEU:HD22	1:130:A:ALA:HA	13	0.6
(2,4471)	1:77:A:LEU:HD11	1:126:A:ILE:HA	19	0.6
(2,4471)	1:77:A:LEU:HD11	1:141:A:LEU:HA	20	0.6
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	1	0.6
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG13	10	0.6
(2,4434)	1:29:A:LEU:HD13	1:30:A:GLU:HB3	6	0.6
(2,4434)	1:29:A:LEU:HD13	1:30:A:GLU:HB3	9	0.6
(2,4434)	1:29:A:LEU:HD13	1:30:A:GLU:HB3	11	0.6
(2,4423)	1:33:A:VAL:HG21	1:122:A:LEU:HG	3	0.6
(2,4396)	1:61:A:LYS:HD2	1:61:A:LYS:HA	19	0.6
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	3	0.6
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	5	0.6
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	6	0.6
(2,4332)	1:141:A:LEU:HD11	1:132:A:HIS:HB3	10	0.6
(2,4319)	1:115:A:ILE:HG22	1:118:A:ARG:HB3	9	0.6
(2,4319)	1:115:A:ILE:HG21	1:118:A:ARG:HB3	14	0.6
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD12	15	0.6
(2,4260)	1:55:A:THR:HG22	1:63:A:LYS:HE3	2	0.6
(2,4252)	1:63:A:LYS:HE2	1:60:A:PHE:H	10	0.6
(2,4217)	1:25:A:PRO:HA	1:58:A:PRO:HD2	5	0.6
(2,4190)	1:77:A:LEU:HD21	1:80:A:GLU:HB2	17	0.6
(2,4118)	1:5:A:VAL:HG12	1:4:A:THR:HA	2	0.6
(2,4116)	1:135:A:ALA:HB1	1:88:A:VAL:H	5	0.6
(2,4116)	1:135:A:ALA:HB2	1:88:A:VAL:H	13	0.6
(2,4084)	1:51:A:ILE:HD11	1:34:A:SER:H	2	0.6
(2,4084)	1:51:A:ILE:HD12	1:34:A:SER:H	3	0.6
(2,4084)	1:51:A:ILE:HD13	1:34:A:SER:H	8	0.6
(2,4084)	1:51:A:ILE:HD12	1:49:A:TYR:H	11	0.6
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG22	20	0.6
(2,4030)	1:152:A:LYS:HD3	1:76:A:TRP:HD1	14	0.6
(2,4015)	1:43:A:ARG:HG2	1:106:A:ASP:HB2	17	0.6
(2,4004)	1:159:A:ILE:HD11	1:141:A:LEU:HG	13	0.6
(2,3943)	1:115:A:ILE:HD13	1:112:A:ASP:HB2	6	0.6
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	8	0.6
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG22	7	0.6
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG21	15	0.6
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	15	0.6
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	19	0.6
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB2	12	0.6
(2,3844)	1:159:A:ILE:HG22	1:139:A:ARG:HA	5	0.6
(2,3843)	1:55:A:THR:HG22	1:55:A:THR:HA	20	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3810)	1:129:A:VAL:HG11	1:128:A:LYS:HD2	11	0.6
(2,3795)	1:130:A:ALA:HB1	1:131:A:GLY:H	3	0.6
(2,3795)	1:130:A:ALA:HB3	1:131:A:GLY:H	19	0.6
(2,3793)	1:130:A:ALA:HB1	1:126:A:ILE:HD13	5	0.6
(2,3772)	1:126:A:ILE:HG21	1:32:A:ASP:HA	17	0.6
(2,3765)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	6	0.6
(2,3744)	1:87:A:VAL:HG22	1:82:A:GLU:HG3	9	0.6
(2,3744)	1:87:A:VAL:HG23	1:82:A:GLU:HG3	19	0.6
(2,3733)	1:134:A:LEU:HG	1:87:A:VAL:HG23	2	0.6
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	2	0.6
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	11	0.6
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	13	0.6
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	14	0.6
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	19	0.6
(2,3709)	1:92:A:LEU:HD12	1:79:A:SER:HB3	20	0.6
(2,3657)	1:66:A:THR:HG21	1:68:A:ARG:H	1	0.6
(2,3622)	1:108:A:GLY:HA3	1:109:A:ILE:HG12	8	0.6
(2,3618)	1:32:A:ASP:HB2	1:31:A:ILE:HG22	7	0.6
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	1	0.6
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	3	0.6
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE1	5	0.6
(2,3450)	1:130:A:ALA:HB2	1:132:A:HIS:H	17	0.6
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	6	0.6
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	13	0.6
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	15	0.6
(2,3020)	1:8:A:THR:HG23	1:9:A:ARG:H	5	0.6
(2,3020)	1:8:A:THR:HG22	1:9:A:ARG:H	8	0.6
(2,3020)	1:8:A:THR:HG23	1:9:A:ARG:H	11	0.6
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	3	0.6
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	9	0.6
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	20	0.6
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	10	0.6
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	19	0.6
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	4	0.6
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	5	0.6
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	9	0.6
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	19	0.6
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD21	19	0.6
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	7	0.6
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	8	0.6
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	17	0.6
(2,2337)	1:98:A:LEU:HD21	1:100:A:GLN:HB2	4	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2315)	1:77:A:LEU:HD23	1:144:A:PHE:H	4	0.6
(2,2288)	1:162:A:ALA:HB3	1:161:A:HIS:HB2	4	0.6
(2,2288)	1:162:A:ALA:HB2	1:161:A:HIS:HB2	18	0.6
(2,2263)	1:134:A:LEU:HD23	1:135:A:ALA:HA	3	0.6
(2,2263)	1:134:A:LEU:HD23	1:135:A:ALA:HA	9	0.6
(2,2210)	1:77:A:LEU:HD11	1:144:A:PHE:HD1	19	0.6
(2,2197)	1:126:A:ILE:HD13	1:77:A:LEU:HD13	18	0.6
(2,2181)	1:53:A:VAL:HG11	1:31:A:ILE:HG12	3	0.6
(2,2181)	1:53:A:VAL:HG12	1:31:A:ILE:HG12	11	0.6
(2,2181)	1:53:A:VAL:HG13	1:31:A:ILE:HG12	13	0.6
(2,2181)	1:53:A:VAL:HG11	1:31:A:ILE:HG12	17	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	1	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	3	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	4	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	5	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	6	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	7	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	8	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	10	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	12	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	13	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	14	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	15	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	16	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	18	0.6
(2,2118)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	20	0.6
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	8	0.6
(2,2033)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	11	0.6
(2,2014)	1:134:A:LEU:HD13	1:137:A:ASN:HD22	7	0.6
(2,2014)	1:134:A:LEU:HD11	1:137:A:ASN:HD22	10	0.6
(2,2014)	1:134:A:LEU:HD13	1:137:A:ASN:HD22	15	0.6
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG21	2	0.6
(2,1897)	1:115:A:ILE:HD12	1:116:A:GLU:HA	8	0.6
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	13	0.6
(2,1672)	1:31:A:ILE:HG21	1:127:A:ASN:H	20	0.6
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD12	7	0.6
(2,1303)	1:31:A:ILE:HD13	1:31:A:ILE:HA	3	0.6
(2,1303)	1:31:A:ILE:HD12	1:31:A:ILE:HA	11	0.6
(2,1303)	1:31:A:ILE:HD13	1:31:A:ILE:HA	16	0.6
(2,1303)	1:31:A:ILE:HD13	1:31:A:ILE:HA	19	0.6
(2,1282)	1:31:A:ILE:HD12	1:30:A:GLU:H	8	0.6
(2,1282)	1:31:A:ILE:HD13	1:30:A:GLU:H	13	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1282)	1:31:A:ILE:HD11	1:30:A:GLU:H	15	0.6
(2,1282)	1:31:A:ILE:HD12	1:30:A:GLU:H	19	0.6
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	20	0.6
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	5	0.6
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	8	0.6
(2,1119)	1:11:A:LEU:HA	1:12:A:ILE:HD11	7	0.6
(2,1116)	1:149:A:ILE:HD11	1:148:A:GLU:HA	1	0.6
(2,1063)	1:159:A:ILE:HD12	1:142:A:HIS:HB3	13	0.6
(2,748)	1:122:A:LEU:HD21	1:122:A:LEU:H	7	0.6
(2,650)	1:128:A:LYS:HG3	1:129:A:VAL:HG13	6	0.6
(2,621)	1:89:A:VAL:HG11	1:129:A:VAL:HG22	4	0.6
(2,621)	1:89:A:VAL:HG11	1:129:A:VAL:HG23	19	0.6
(2,618)	1:89:A:VAL:HG22	1:129:A:VAL:HG13	13	0.6
(2,491)	1:126:A:ILE:HG23	1:123:A:GLU:HG2	1	0.6
(2,491)	1:126:A:ILE:HG21	1:123:A:GLU:HG2	13	0.6
(2,491)	1:126:A:ILE:HG22	1:123:A:GLU:HG2	18	0.6
(2,479)	1:53:A:VAL:HG22	1:55:A:THR:HG22	5	0.6
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD13	9	0.6
(2,248)	1:150:A:ILE:HG23	1:144:A:PHE:HD2	15	0.6
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	10	0.59
(2,4943)	1:140:A:CYS:H	1:144:A:PHE:HD2	7	0.59
(2,4928)	1:137:A:ASN:HD21	1:160:A:ARG:HB2	19	0.59
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	13	0.59
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD13	20	0.59
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	8	0.59
(2,4775)	1:11:A:LEU:HB3	1:11:A:LEU:H	18	0.59
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG21	1	0.59
(2,4727)	1:33:A:VAL:HG21	1:50:A:GLU:H	12	0.59
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	1	0.59
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG22	19	0.59
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	6	0.59
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	5	0.59
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	14	0.59
(2,4570)	1:149:A:ILE:HD11	1:148:A:GLU:HA	7	0.59
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	3	0.59
(2,4536)	1:92:A:LEU:HD13	1:125:A:PHE:HE1	7	0.59
(2,4533)	1:88:A:VAL:HG22	1:90:A:PRO:HB2	18	0.59
(2,4499)	1:145:A:LEU:HB3	1:145:A:LEU:HD12	10	0.59
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD13	16	0.59
(2,4493)	1:29:A:LEU:HD23	1:130:A:ALA:HA	17	0.59
(2,4474)	1:77:A:LEU:HD11	1:126:A:ILE:HB	2	0.59
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	11	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG13	9	0.59
(2,4434)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	12	0.59
(2,4434)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	19	0.59
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	10	0.59
(2,4418)	1:77:A:LEU:HD12	1:144:A:PHE:H	19	0.59
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD21	3	0.59
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD23	14	0.59
(2,4298)	1:93:A:PRO:HD3	1:74:A:PHE:HD2	3	0.59
(2,4298)	1:93:A:PRO:HD3	1:74:A:PHE:HD2	4	0.59
(2,4260)	1:55:A:THR:HG22	1:63:A:LYS:HE3	13	0.59
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	13	0.59
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	19	0.59
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	13	0.59
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	3	0.59
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	13	0.59
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	18	0.59
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD23	15	0.59
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD12	12	0.59
(2,4139)	1:137:A:ASN:HB3	1:141:A:LEU:HD22	13	0.59
(2,4091)	1:31:A:ILE:HD11	1:126:A:ILE:HA	16	0.59
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG21	8	0.59
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG21	15	0.59
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG22	18	0.59
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG21	14	0.59
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	7	0.59
(2,3959)	1:109:A:ILE:HD13	1:110:A:PHE:HE2	10	0.59
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG21	7	0.59
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG23	20	0.59
(2,3940)	1:115:A:ILE:HD13	1:109:A:ILE:HA	1	0.59
(2,3869)	1:158:A:LYS:HD3	1:137:A:ASN:HD21	9	0.59
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	12	0.59
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	6	0.59
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	8	0.59
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB2	17	0.59
(2,3810)	1:129:A:VAL:HG13	1:128:A:LYS:HD2	5	0.59
(2,3810)	1:129:A:VAL:HG12	1:128:A:LYS:HD2	13	0.59
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD11	2	0.59
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD12	13	0.59
(2,3776)	1:39:A:VAL:HG13	1:46:A:PHE:HZ	13	0.59
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG21	6	0.59
(2,3772)	1:126:A:ILE:HG23	1:32:A:ASP:HA	16	0.59
(2,3764)	1:53:A:VAL:HG21	1:30:A:GLU:HG3	1	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3762)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	2	0.59
(2,3747)	1:0:A:GLY:HA2	1:-1:A:VAL:HG23	15	0.59
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	4	0.59
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	15	0.59
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD22	9	0.59
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	16	0.59
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	6	0.59
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	9	0.59
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	10	0.59
(2,3589)	1:107:A:ASP:H	1:106:A:ASP:HB3	7	0.59
(2,3571)	1:76:A:TRP:HE1	1:150:A:ILE:HG13	9	0.59
(2,3571)	1:76:A:TRP:HE1	1:150:A:ILE:HG13	15	0.59
(2,3505)	1:39:A:VAL:HG11	1:37:A:GLN:HE22	2	0.59
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD11	10	0.59
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG13	3	0.59
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG12	13	0.59
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD13	7	0.59
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	1	0.59
(2,3020)	1:8:A:THR:HG21	1:9:A:ARG:H	10	0.59
(2,3020)	1:8:A:THR:HG21	1:9:A:ARG:H	15	0.59
(2,3020)	1:8:A:THR:HG21	1:9:A:ARG:H	17	0.59
(2,3020)	1:8:A:THR:HG22	1:9:A:ARG:H	18	0.59
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	2	0.59
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	15	0.59
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	14	0.59
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	20	0.59
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	6	0.59
(2,2579)	1:99:A:ARG:H	1:99:A:ARG:HG3	11	0.59
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	5	0.59
(2,2410)	1:109:A:ILE:HG23	1:114:A:PHE:HB2	1	0.59
(2,2372)	1:33:A:VAL:HG23	1:74:A:PHE:HD2	12	0.59
(2,2372)	1:33:A:VAL:HG21	1:74:A:PHE:HD2	19	0.59
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	1	0.59
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	11	0.59
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD21	1	0.59
(2,2263)	1:134:A:LEU:HD22	1:135:A:ALA:HA	5	0.59
(2,2197)	1:126:A:ILE:HD11	1:77:A:LEU:HD12	13	0.59
(2,2197)	1:126:A:ILE:HD11	1:77:A:LEU:HD13	20	0.59
(2,2181)	1:53:A:VAL:HG11	1:31:A:ILE:HG12	8	0.59
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	3	0.59
(2,2033)	1:53:A:VAL:HG23	1:54:A:LYS:HB2	13	0.59
(2,1953)	1:145:A:LEU:HD22	1:141:A:LEU:HB3	13	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1915)	1:134:A:LEU:HD21	1:86:A:LYS:HB3	6	0.59
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	17	0.59
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	14	0.59
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD22	6	0.59
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	12	0.59
(2,1672)	1:31:A:ILE:HG22	1:127:A:ASN:H	15	0.59
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	17	0.59
(2,1504)	1:57:A:LEU:HD22	1:29:A:LEU:HD13	1	0.59
(2,1504)	1:57:A:LEU:HD22	1:29:A:LEU:HD12	6	0.59
(2,1370)	1:21:A:ALA:HB3	1:20:A:ASP:H	14	0.59
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG22	2	0.59
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG21	5	0.59
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG22	16	0.59
(2,1282)	1:31:A:ILE:HD13	1:30:A:GLU:H	14	0.59
(2,1282)	1:31:A:ILE:HD11	1:30:A:GLU:H	18	0.59
(2,1245)	1:81:A:LEU:HD23	1:137:A:ASN:H	2	0.59
(2,1245)	1:81:A:LEU:HD22	1:137:A:ASN:H	19	0.59
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	7	0.59
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	17	0.59
(2,1134)	1:59:A:ILE:HD13	1:159:A:ILE:H	18	0.59
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG11	3	0.59
(2,748)	1:122:A:LEU:HD21	1:122:A:LEU:H	9	0.59
(2,748)	1:122:A:LEU:HD23	1:122:A:LEU:H	19	0.59
(2,650)	1:128:A:LYS:HG3	1:129:A:VAL:HG11	20	0.59
(2,628)	1:129:A:VAL:HG11	1:77:A:LEU:HD11	19	0.59
(2,621)	1:89:A:VAL:HG11	1:129:A:VAL:HG21	10	0.59
(2,618)	1:89:A:VAL:HG22	1:129:A:VAL:HG13	3	0.59
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD12	16	0.59
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD12	3	0.59
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD12	15	0.59
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG22	14	0.59
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	2	0.59
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG23	1	0.59
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	1	0.58
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	4	0.58
(2,4852)	1:97:A:PHE:HB3	1:96:A:ALA:H	4	0.58
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	12	0.58
(2,4807)	1:57:A:LEU:H	1:28:A:PHE:HE2	12	0.58
(2,4760)	1:5:A:VAL:HG13	1:4:A:THR:H	18	0.58
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	4	0.58
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG21	5	0.58
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	8	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4570)	1:149:A:ILE:HD13	1:148:A:GLU:HA	15	0.58
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	4	0.58
(2,4536)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	6	0.58
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	11	0.58
(2,4506)	1:77:A:LEU:HD12	1:81:A:LEU:HA	20	0.58
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	18	0.58
(2,4475)	1:141:A:LEU:HD12	1:77:A:LEU:HD13	3	0.58
(2,4471)	1:77:A:LEU:HD12	1:126:A:ILE:HA	1	0.58
(2,4471)	1:77:A:LEU:HD11	1:126:A:ILE:HA	2	0.58
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	15	0.58
(2,4437)	1:31:A:ILE:HG23	1:53:A:VAL:HG11	15	0.58
(2,4434)	1:29:A:LEU:HD13	1:30:A:GLU:HB3	17	0.58
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	14	0.58
(2,4418)	1:77:A:LEU:HD13	1:144:A:PHE:H	3	0.58
(2,4396)	1:61:A:LYS:HD2	1:61:A:LYS:HA	7	0.58
(2,4396)	1:61:A:LYS:HD2	1:61:A:LYS:HA	11	0.58
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	9	0.58
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	12	0.58
(2,4348)	1:145:A:LEU:HD23	1:60:A:PHE:HE1	15	0.58
(2,4319)	1:115:A:ILE:HG22	1:118:A:ARG:HB3	18	0.58
(2,4298)	1:93:A:PRO:HD3	1:125:A:PHE:HE1	10	0.58
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	17	0.58
(2,4290)	1:54:A:LYS:HE2	1:64:A:GLU:HB2	16	0.58
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	20	0.58
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	7	0.58
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	17	0.58
(2,4205)	1:158:A:LYS:HD3	1:159:A:ILE:H	9	0.58
(2,4193)	1:50:A:GLU:HG3	1:68:A:ARG:HD3	17	0.58
(2,4154)	1:57:A:LEU:HD22	1:29:A:LEU:HD22	6	0.58
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD23	18	0.58
(2,4151)	1:57:A:LEU:HD23	1:131:A:GLY:HA3	20	0.58
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	20	0.58
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG21	9	0.58
(2,4004)	1:159:A:ILE:HD11	1:141:A:LEU:HG	14	0.58
(2,3989)	1:26:A:SER:HB2	1:24:A:PRO:HB3	14	0.58
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG23	3	0.58
(2,3942)	1:115:A:ILE:HG21	1:119:A:LYS:HE2	15	0.58
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	16	0.58
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG23	8	0.58
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	5	0.58
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	1	0.58
(2,3840)	1:55:A:THR:HG21	1:60:A:PHE:HE2	9	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD12	17	0.58
(2,3772)	1:126:A:ILE:HG23	1:32:A:ASP:HA	7	0.58
(2,3772)	1:126:A:ILE:HG23	1:32:A:ASP:HA	12	0.58
(2,3758)	1:47:A:THR:HG23	1:36:A:PRO:HG2	19	0.58
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	16	0.58
(2,3688)	1:150:A:ILE:HD11	1:73:A:ASP:H	11	0.58
(2,3660)	1:66:A:THR:HG22	1:52:A:ARG:HB2	19	0.58
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	13	0.58
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	11	0.58
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	15	0.58
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG23	13	0.58
(2,3450)	1:130:A:ALA:HB3	1:132:A:HIS:H	6	0.58
(2,3382)	1:115:A:ILE:H	1:111:A:ASP:HB2	17	0.58
(2,3239)	1:56:A:ASN:H	1:29:A:LEU:HB3	12	0.58
(2,3045)	1:14:A:LYS:H	1:14:A:LYS:HG3	3	0.58
(2,3045)	1:14:A:LYS:H	1:14:A:LYS:HG3	4	0.58
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	8	0.58
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	9	0.58
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	2	0.58
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	4	0.58
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	5	0.58
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	4	0.58
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	14	0.58
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	17	0.58
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	19	0.58
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD22	17	0.58
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	1	0.58
(2,2470)	1:72:A:SER:H	1:75:A:GLU:HB3	18	0.58
(2,2410)	1:109:A:ILE:HG23	1:114:A:PHE:HB2	12	0.58
(2,2384)	1:60:A:PHE:HB3	1:57:A:LEU:HB3	5	0.58
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD21	13	0.58
(2,2315)	1:77:A:LEU:HD22	1:144:A:PHE:H	3	0.58
(2,2210)	1:77:A:LEU:HD13	1:144:A:PHE:HD2	11	0.58
(2,2033)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	7	0.58
(2,2014)	1:134:A:LEU:HD11	1:137:A:ASN:HD22	2	0.58
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	6	0.58
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	20	0.58
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	19	0.58
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG21	20	0.58
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	4	0.58
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	9	0.58
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	12	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	15	0.58
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	16	0.58
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	18	0.58
(2,1504)	1:57:A:LEU:HD22	1:29:A:LEU:HD13	12	0.58
(2,1504)	1:57:A:LEU:HD21	1:29:A:LEU:HD12	17	0.58
(2,1366)	1:101:A:LEU:HD23	1:101:A:LEU:HA	7	0.58
(2,1338)	1:59:A:ILE:HG22	1:58:A:PRO:HA	11	0.58
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG23	6	0.58
(2,1295)	1:51:A:ILE:HD12	1:122:A:LEU:HB2	20	0.58
(2,1282)	1:31:A:ILE:HD11	1:30:A:GLU:H	10	0.58
(2,1282)	1:31:A:ILE:HD11	1:30:A:GLU:H	11	0.58
(2,1282)	1:31:A:ILE:HD13	1:30:A:GLU:H	20	0.58
(2,1245)	1:81:A:LEU:HD23	1:137:A:ASN:H	11	0.58
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD23	8	0.58
(2,1147)	1:122:A:LEU:HD13	1:93:A:PRO:HB3	13	0.58
(2,1116)	1:149:A:ILE:HD13	1:148:A:GLU:HA	13	0.58
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	5	0.58
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	18	0.58
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	18	0.58
(2,748)	1:122:A:LEU:HD22	1:122:A:LEU:H	17	0.58
(2,748)	1:122:A:LEU:HD22	1:122:A:LEU:H	18	0.58
(2,621)	1:89:A:VAL:HG13	1:129:A:VAL:HG21	2	0.58
(2,621)	1:89:A:VAL:HG11	1:129:A:VAL:HG22	15	0.58
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	14	0.58
(2,542)	1:143:A:MET:HE3	1:154:A:TYR:HE1	18	0.58
(2,510)	1:122:A:LEU:HD12	1:92:A:LEU:HD12	15	0.58
(2,491)	1:126:A:ILE:HG23	1:123:A:GLU:HG2	17	0.58
(2,480)	1:53:A:VAL:HG21	1:31:A:ILE:HD11	2	0.58
(2,306)	1:92:A:LEU:HD22	1:75:A:GLU:H	4	0.58
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD12	5	0.58
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD13	20	0.58
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG22	5	0.58
(2,224)	1:155:A:THR:HG23	1:139:A:ARG:HG2	19	0.58
(2,223)	1:155:A:THR:HA	1:139:A:ARG:HG2	19	0.58
(2,33)	1:27:A:ASN:HA	1:56:A:ASN:HD21	17	0.58
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG21	2	0.58
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG21	7	0.58
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG23	16	0.58
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	5	0.57
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	7	0.57
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	9	0.57
(2,4943)	1:140:A:CYS:H	1:161:A:HIS:HD2	14	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4943)	1:140:A:CYS:H	1:161:A:HIS:HD2	20	0.57
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	10	0.57
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	1	0.57
(2,4786)	1:56:A:ASN:HD21	1:24:A:PRO:HG2	17	0.57
(2,4785)	1:23:A:GLY:H	1:58:A:PRO:HB2	10	0.57
(2,4733)	1:111:A:ASP:H	1:114:A:PHE:HE2	20	0.57
(2,4704)	1:31:A:ILE:HD11	1:130:A:ALA:H	4	0.57
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	19	0.57
(2,4678)	1:19:A:ASN:HD21	1:18:A:LEU:HB3	3	0.57
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG22	7	0.57
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG23	14	0.57
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	3	0.57
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	1	0.57
(2,4550)	1:34:A:SER:HB2	1:119:A:LYS:HE3	12	0.57
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	8	0.57
(2,4506)	1:77:A:LEU:HD11	1:81:A:LEU:HA	6	0.57
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD11	2	0.57
(2,4474)	1:77:A:LEU:HD11	1:145:A:LEU:HG	10	0.57
(2,4471)	1:77:A:LEU:HD13	1:126:A:ILE:HA	15	0.57
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	20	0.57
(2,4434)	1:29:A:LEU:HD12	1:30:A:GLU:HB3	5	0.57
(2,4434)	1:29:A:LEU:HD13	1:30:A:GLU:HB3	8	0.57
(2,4434)	1:29:A:LEU:HD12	1:30:A:GLU:HB3	10	0.57
(2,4434)	1:29:A:LEU:HD12	1:30:A:GLU:HB3	18	0.57
(2,4418)	1:77:A:LEU:HD13	1:144:A:PHE:H	12	0.57
(2,4350)	1:145:A:LEU:HB3	1:145:A:LEU:HD23	4	0.57
(2,4350)	1:145:A:LEU:HB3	1:145:A:LEU:HD21	9	0.57
(2,4332)	1:141:A:LEU:HD12	1:132:A:HIS:HB3	7	0.57
(2,4332)	1:141:A:LEU:HD13	1:132:A:HIS:HB3	19	0.57
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD11	11	0.57
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD12	20	0.57
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	15	0.57
(2,4240)	1:31:A:ILE:HG22	1:52:A:ARG:HB2	20	0.57
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	10	0.57
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	12	0.57
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	9	0.57
(2,4182)	1:141:A:LEU:HD11	1:143:A:MET:HG2	11	0.57
(2,4174)	1:63:A:LYS:HD2	1:55:A:THR:H	5	0.57
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD23	7	0.57
(2,4144)	1:64:A:GLU:HG2	1:54:A:LYS:HE3	16	0.57
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD13	1	0.57
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD12	10	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HB2	9	0.57
(2,4122)	1:33:A:VAL:HG12	1:144:A:PHE:HE1	7	0.57
(2,4084)	1:51:A:ILE:HD13	1:49:A:TYR:H	6	0.57
(2,4084)	1:51:A:ILE:HD12	1:49:A:TYR:H	19	0.57
(2,4051)	1:29:A:LEU:HD21	1:145:A:LEU:HG	15	0.57
(2,4043)	1:45:A:ARG:HD2	1:110:A:PHE:HD2	13	0.57
(2,4037)	1:122:A:LEU:HD13	1:33:A:VAL:HG23	12	0.57
(2,4027)	1:152:A:LYS:HE3	1:76:A:TRP:H	13	0.57
(2,4023)	1:12:A:ILE:HD11	1:10:A:ARG:HD3	18	0.57
(2,4015)	1:43:A:ARG:HG2	1:106:A:ASP:HB2	15	0.57
(2,4004)	1:159:A:ILE:HD13	1:141:A:LEU:HG	20	0.57
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG21	14	0.57
(2,3930)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	3	0.57
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	9	0.57
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG23	2	0.57
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	6	0.57
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB2	5	0.57
(2,3810)	1:129:A:VAL:HG11	1:128:A:LYS:HD2	10	0.57
(2,3810)	1:129:A:VAL:HG11	1:128:A:LYS:HD2	16	0.57
(2,3795)	1:130:A:ALA:HB1	1:131:A:GLY:H	1	0.57
(2,3776)	1:39:A:VAL:HG11	1:46:A:PHE:HZ	8	0.57
(2,3772)	1:126:A:ILE:HG22	1:32:A:ASP:HA	6	0.57
(2,3764)	1:53:A:VAL:HG23	1:30:A:GLU:HG3	18	0.57
(2,3762)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	8	0.57
(2,3762)	1:53:A:VAL:HG21	1:64:A:GLU:HB3	18	0.57
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	8	0.57
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	19	0.57
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	5	0.57
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG21	9	0.57
(2,3505)	1:39:A:VAL:HG12	1:37:A:GLN:HE22	8	0.57
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD11	2	0.57
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD23	1	0.57
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD22	5	0.57
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD22	9	0.57
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD22	12	0.57
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG13	17	0.57
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	19	0.57
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	13	0.57
(2,3020)	1:8:A:THR:HG23	1:9:A:ARG:H	1	0.57
(2,3020)	1:8:A:THR:HG23	1:9:A:ARG:H	4	0.57
(2,3020)	1:8:A:THR:HG23	1:9:A:ARG:H	9	0.57
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	10	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	16	0.57
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	18	0.57
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	9	0.57
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	2	0.57
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	1	0.57
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	3	0.57
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	5	0.57
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	7	0.57
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	8	0.57
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	12	0.57
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	13	0.57
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	15	0.57
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	16	0.57
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	18	0.57
(2,2579)	1:99:A:ARG:H	1:99:A:ARG:HG3	17	0.57
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	9	0.57
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	9	0.57
(2,2372)	1:33:A:VAL:HG23	1:74:A:PHE:HD2	13	0.57
(2,2370)	1:145:A:LEU:HD22	1:136:A:GLN:HE22	12	0.57
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	12	0.57
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	18	0.57
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD23	16	0.57
(2,2263)	1:134:A:LEU:HD21	1:135:A:ALA:HA	4	0.57
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	9	0.57
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	11	0.57
(2,2033)	1:53:A:VAL:HG22	1:54:A:LYS:HB2	6	0.57
(2,1897)	1:115:A:ILE:HD12	1:116:A:GLU:HA	12	0.57
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	5	0.57
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	10	0.57
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	11	0.57
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	17	0.57
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	20	0.57
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	17	0.57
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	18	0.57
(2,1780)	1:14:A:LYS:HB3	1:15:A:PRO:HD3	20	0.57
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	3	0.57
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	16	0.57
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG22	18	0.57
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG23	19	0.57
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	1	0.57
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	2	0.57
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	3	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	5	0.57
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	7	0.57
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	8	0.57
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	11	0.57
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	13	0.57
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	14	0.57
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	17	0.57
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	19	0.57
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD11	11	0.57
(2,1504)	1:57:A:LEU:HD23	1:29:A:LEU:HD11	18	0.57
(2,1338)	1:59:A:ILE:HG23	1:58:A:PRO:HA	2	0.57
(2,1338)	1:59:A:ILE:HG22	1:58:A:PRO:HA	5	0.57
(2,1330)	1:115:A:ILE:HG21	1:37:A:GLN:H	13	0.57
(2,1312)	1:149:A:ILE:HG23	1:151:A:ASP:H	2	0.57
(2,1303)	1:31:A:ILE:HD11	1:31:A:ILE:HA	13	0.57
(2,1282)	1:31:A:ILE:HD12	1:30:A:GLU:H	1	0.57
(2,1282)	1:31:A:ILE:HD12	1:30:A:GLU:H	3	0.57
(2,1282)	1:31:A:ILE:HD12	1:30:A:GLU:H	4	0.57
(2,1282)	1:31:A:ILE:HD12	1:30:A:GLU:H	7	0.57
(2,1245)	1:81:A:LEU:HD21	1:137:A:ASN:H	1	0.57
(2,1245)	1:81:A:LEU:HD22	1:137:A:ASN:H	3	0.57
(2,1245)	1:81:A:LEU:HD23	1:137:A:ASN:H	7	0.57
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD23	5	0.57
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD21	15	0.57
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	16	0.57
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG21	5	0.57
(2,1134)	1:59:A:ILE:HD13	1:159:A:ILE:H	11	0.57
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	15	0.57
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	19	0.57
(2,998)	1:102:A:PRO:HD2	1:101:A:LEU:HD11	7	0.57
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG23	13	0.57
(2,680)	1:55:A:THR:HG23	1:63:A:LYS:HB3	4	0.57
(2,628)	1:129:A:VAL:HG11	1:77:A:LEU:HD12	1	0.57
(2,618)	1:89:A:VAL:HG23	1:129:A:VAL:HG11	6	0.57
(2,423)	1:87:A:VAL:HG12	1:88:A:VAL:HG12	18	0.57
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	8	0.57
(2,306)	1:92:A:LEU:HD21	1:75:A:GLU:H	8	0.57
(2,243)	1:150:A:ILE:HD11	1:150:A:ILE:H	9	0.57
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG23	17	0.57
(2,76)	1:80:A:GLU:HA	1:83:A:ARG:HB2	6	0.57
(2,16)	1:32:A:ASP:HB2	1:52:A:ARG:HB2	20	0.57
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG22	4	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG21	10	0.57
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	12	0.56
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	14	0.56
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	17	0.56
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD13	10	0.56
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	12	0.56
(2,4807)	1:57:A:LEU:H	1:28:A:PHE:HE2	14	0.56
(2,4704)	1:31:A:ILE:HD13	1:130:A:ALA:H	6	0.56
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	17	0.56
(2,4606)	1:99:A:ARG:H	1:97:A:PHE:HD1	7	0.56
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	8	0.56
(2,4550)	1:34:A:SER:HB2	1:52:A:ARG:HD3	15	0.56
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	2	0.56
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	3	0.56
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	16	0.56
(2,4437)	1:31:A:ILE:HG23	1:53:A:VAL:HG11	3	0.56
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG11	4	0.56
(2,4434)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	2	0.56
(2,4434)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	14	0.56
(2,4418)	1:77:A:LEU:HD13	1:144:A:PHE:H	8	0.56
(2,4396)	1:61:A:LYS:HD2	1:61:A:LYS:HA	15	0.56
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	15	0.56
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	7	0.56
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	18	0.56
(2,4346)	1:145:A:LEU:HA	1:145:A:LEU:HD22	20	0.56
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD21	8	0.56
(2,4319)	1:115:A:ILE:HG23	1:118:A:ARG:HB3	2	0.56
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	3	0.56
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	12	0.56
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	2	0.56
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG23	6	0.56
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD13	1	0.56
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	13	0.56
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG21	13	0.56
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG23	14	0.56
(2,4122)	1:33:A:VAL:HG12	1:144:A:PHE:HE2	18	0.56
(2,4115)	1:135:A:ALA:HB2	1:136:A:GLN:HG3	3	0.56
(2,4093)	1:115:A:ILE:HG23	1:49:A:TYR:HD1	20	0.56
(2,4084)	1:51:A:ILE:HD12	1:49:A:TYR:H	1	0.56
(2,4084)	1:51:A:ILE:HD13	1:49:A:TYR:H	12	0.56
(2,4071)	1:81:A:LEU:HD11	1:141:A:LEU:H	2	0.56
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG23	2	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG22	7	0.56
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG23	13	0.56
(2,4015)	1:43:A:ARG:HG2	1:106:A:ASP:HB2	9	0.56
(2,4015)	1:43:A:ARG:HG2	1:106:A:ASP:HB2	18	0.56
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD23	7	0.56
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	3	0.56
(2,3958)	1:109:A:ILE:HD11	1:107:A:ASP:H	4	0.56
(2,3930)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	13	0.56
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	17	0.56
(2,3842)	1:159:A:ILE:HG21	1:142:A:HIS:HA	6	0.56
(2,3795)	1:130:A:ALA:HB1	1:131:A:GLY:H	20	0.56
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG21	1	0.56
(2,3762)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	14	0.56
(2,3727)	1:89:A:VAL:HA	1:128:A:LYS:HB2	20	0.56
(2,3708)	1:92:A:LEU:HD11	1:78:A:ARG:H	11	0.56
(2,3691)	1:150:A:ILE:HD11	1:143:A:MET:HB2	20	0.56
(2,3660)	1:66:A:THR:HG22	1:52:A:ARG:HB2	10	0.56
(2,3658)	1:66:A:THR:HG22	1:52:A:ARG:HD2	12	0.56
(2,3640)	1:79:A:SER:HB3	1:82:A:GLU:HB2	3	0.56
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	2	0.56
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	8	0.56
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	18	0.56
(2,3450)	1:130:A:ALA:HB3	1:132:A:HIS:H	13	0.56
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD23	2	0.56
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	5	0.56
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	14	0.56
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	5	0.56
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	4	0.56
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	20	0.56
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	17	0.56
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	2	0.56
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	10	0.56
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	11	0.56
(2,2689)	1:37:A:GLN:HG2	1:37:A:GLN:HE22	20	0.56
(2,2410)	1:109:A:ILE:HG21	1:114:A:PHE:HB2	16	0.56
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	2	0.56
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	4	0.56
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	20	0.56
(2,2315)	1:77:A:LEU:HD23	1:144:A:PHE:H	1	0.56
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD11	20	0.56
(2,2197)	1:126:A:ILE:HD13	1:77:A:LEU:HD11	2	0.56
(2,2197)	1:126:A:ILE:HD12	1:77:A:LEU:HD13	14	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG22	16	0.56
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	10	0.56
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	18	0.56
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	1	0.56
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	2	0.56
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	3	0.56
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	4	0.56
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	7	0.56
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	8	0.56
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	9	0.56
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	13	0.56
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	15	0.56
(2,1780)	1:14:A:LYS:HB3	1:15:A:PRO:HD3	4	0.56
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD21	7	0.56
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD21	13	0.56
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	16	0.56
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	2	0.56
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	9	0.56
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	17	0.56
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	20	0.56
(2,1679)	1:126:A:ILE:HG22	1:31:A:ILE:HG23	4	0.56
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG23	15	0.56
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	6	0.56
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	10	0.56
(2,1602)	1:102:A:PRO:HB2	1:102:A:PRO:HG3	20	0.56
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD11	17	0.56
(2,1401)	1:39:A:VAL:HG23	1:46:A:PHE:HE2	8	0.56
(2,1338)	1:59:A:ILE:HG21	1:58:A:PRO:HA	3	0.56
(2,1338)	1:59:A:ILE:HG23	1:58:A:PRO:HA	8	0.56
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG21	1	0.56
(2,1303)	1:31:A:ILE:HD11	1:31:A:ILE:HA	17	0.56
(2,1282)	1:31:A:ILE:HD12	1:30:A:GLU:H	9	0.56
(2,1282)	1:31:A:ILE:HD13	1:30:A:GLU:H	17	0.56
(2,1245)	1:81:A:LEU:HD21	1:137:A:ASN:H	12	0.56
(2,1245)	1:81:A:LEU:HD23	1:137:A:ASN:H	16	0.56
(2,1244)	1:81:A:LEU:HD21	1:135:A:ALA:HB3	17	0.56
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD21	1	0.56
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD22	3	0.56
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD23	11	0.56
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD21	18	0.56
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD22	19	0.56
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD22	20	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1147)	1:122:A:LEU:HD11	1:93:A:PRO:HB3	9	0.56
(2,1147)	1:122:A:LEU:HD12	1:93:A:PRO:HB3	12	0.56
(2,1134)	1:59:A:ILE:HD13	1:159:A:ILE:H	16	0.56
(2,1116)	1:149:A:ILE:HD12	1:148:A:GLU:HA	14	0.56
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	1	0.56
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	11	0.56
(2,748)	1:122:A:LEU:HD22	1:122:A:LEU:H	4	0.56
(2,748)	1:122:A:LEU:HD23	1:122:A:LEU:H	11	0.56
(2,618)	1:89:A:VAL:HG22	1:129:A:VAL:HG12	16	0.56
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	20	0.56
(2,491)	1:126:A:ILE:HG22	1:123:A:GLU:HG2	7	0.56
(2,490)	1:126:A:ILE:HG22	1:127:A:ASN:HB3	20	0.56
(2,480)	1:53:A:VAL:HG21	1:31:A:ILE:HD12	16	0.56
(2,479)	1:53:A:VAL:HG22	1:55:A:THR:HG22	6	0.56
(2,423)	1:87:A:VAL:HG12	1:88:A:VAL:HG12	16	0.56
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	5	0.56
(2,361)	1:89:A:VAL:HG22	1:88:A:VAL:H	6	0.56
(2,306)	1:92:A:LEU:HD22	1:75:A:GLU:H	10	0.56
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG23	8	0.56
(2,4968)	1:152:A:LYS:HD2	1:76:A:TRP:HE1	3	0.55
(2,4968)	1:152:A:LYS:HD2	1:76:A:TRP:HE1	14	0.55
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	6	0.55
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	13	0.55
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	9	0.55
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD11	13	0.55
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	15	0.55
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	9	0.55
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	4	0.55
(2,4775)	1:11:A:LEU:HB3	1:11:A:LEU:H	17	0.55
(2,4772)	1:10:A:ARG:H	1:10:A:ARG:HD3	12	0.55
(2,4727)	1:33:A:VAL:HG22	1:50:A:GLU:H	8	0.55
(2,4725)	1:50:A:GLU:H	1:36:A:PRO:HB3	10	0.55
(2,4714)	1:101:A:LEU:HD22	1:101:A:LEU:H	12	0.55
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG21	15	0.55
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	18	0.55
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	3	0.55
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	19	0.55
(2,4533)	1:88:A:VAL:HG22	1:90:A:PRO:HB2	15	0.55
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	4	0.55
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	10	0.55
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	16	0.55
(2,4493)	1:29:A:LEU:HD21	1:130:A:ALA:HA	7	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD11	15	0.55
(2,4474)	1:77:A:LEU:HD13	1:126:A:ILE:HB	11	0.55
(2,4471)	1:77:A:LEU:HD11	1:141:A:LEU:HA	11	0.55
(2,4469)	1:77:A:LEU:HD13	1:130:A:ALA:HB2	1	0.55
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	16	0.55
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	14	0.55
(2,4437)	1:31:A:ILE:HG22	1:53:A:VAL:HG12	16	0.55
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG12	19	0.55
(2,4434)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	4	0.55
(2,4434)	1:29:A:LEU:HD12	1:30:A:GLU:HB3	15	0.55
(2,4418)	1:77:A:LEU:HD11	1:144:A:PHE:H	9	0.55
(2,4414)	1:12:A:ILE:HB	1:11:A:LEU:HA	20	0.55
(2,4396)	1:61:A:LYS:HD2	1:61:A:LYS:HA	18	0.55
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	1	0.55
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	8	0.55
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	19	0.55
(2,4347)	1:38:A:THR:HG22	1:110:A:PHE:HZ	9	0.55
(2,4325)	1:33:A:VAL:HG22	1:119:A:LYS:HG3	20	0.55
(2,4319)	1:115:A:ILE:HG22	1:118:A:ARG:HB3	4	0.55
(2,4319)	1:115:A:ILE:HG21	1:118:A:ARG:HB3	13	0.55
(2,4287)	1:86:A:LYS:HE3	1:134:A:LEU:HD13	5	0.55
(2,4283)	1:86:A:LYS:HE2	1:86:A:LYS:HG2	9	0.55
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	2	0.55
(2,4272)	1:80:A:GLU:HA	1:83:A:ARG:HD3	18	0.55
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	4	0.55
(2,4252)	1:63:A:LYS:HE3	1:60:A:PHE:H	15	0.55
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	13	0.55
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	11	0.55
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	19	0.55
(2,4193)	1:50:A:GLU:HG3	1:68:A:ARG:HD2	13	0.55
(2,4154)	1:57:A:LEU:HD23	1:29:A:LEU:HD21	20	0.55
(2,4141)	1:64:A:GLU:HG3	1:55:A:THR:H	1	0.55
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG22	14	0.55
(2,3963)	1:109:A:ILE:HD11	1:107:A:ASP:HB3	2	0.55
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG21	17	0.55
(2,3942)	1:115:A:ILE:HG23	1:119:A:LYS:HE2	11	0.55
(2,3940)	1:115:A:ILE:HD13	1:109:A:ILE:HA	4	0.55
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	3	0.55
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	9	0.55
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	8	0.55
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	13	0.55
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	13	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	3	0.55
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	20	0.55
(2,3842)	1:159:A:ILE:HG23	1:142:A:HIS:HA	10	0.55
(2,3819)	1:128:A:LYS:HD3	1:125:A:PHE:H	6	0.55
(2,3818)	1:128:A:LYS:HE3	1:128:A:LYS:H	12	0.55
(2,3810)	1:129:A:VAL:HG11	1:128:A:LYS:HD2	15	0.55
(2,3810)	1:129:A:VAL:HG12	1:128:A:LYS:HD2	19	0.55
(2,3793)	1:130:A:ALA:HB2	1:145:A:LEU:HD13	16	0.55
(2,3772)	1:126:A:ILE:HG21	1:32:A:ASP:HA	10	0.55
(2,3772)	1:126:A:ILE:HG22	1:32:A:ASP:HA	11	0.55
(2,3764)	1:53:A:VAL:HG22	1:30:A:GLU:HG3	4	0.55
(2,3657)	1:66:A:THR:HG22	1:68:A:ARG:H	13	0.55
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	6	0.55
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	12	0.55
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	18	0.55
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG21	1	0.55
(2,3505)	1:39:A:VAL:HG11	1:37:A:GLN:HE22	13	0.55
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE1	2	0.55
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD23	13	0.55
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	20	0.55
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD12	11	0.55
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD11	15	0.55
(2,3045)	1:14:A:LYS:H	1:14:A:LYS:HG3	6	0.55
(2,3042)	1:14:A:LYS:H	1:14:A:LYS:HD3	5	0.55
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	1	0.55
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	12	0.55
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	7	0.55
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	9	0.55
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	15	0.55
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	19	0.55
(2,2747)	1:122:A:LEU:HD21	1:121:A:GLY:H	10	0.55
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	12	0.55
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG21	14	0.55
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG22	15	0.55
(2,2410)	1:109:A:ILE:HG21	1:114:A:PHE:HB2	3	0.55
(2,2410)	1:109:A:ILE:HG22	1:114:A:PHE:HB2	7	0.55
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	19	0.55
(2,2210)	1:77:A:LEU:HD13	1:144:A:PHE:HD1	10	0.55
(2,2197)	1:126:A:ILE:HD13	1:77:A:LEU:HD11	4	0.55
(2,2181)	1:53:A:VAL:HG12	1:31:A:ILE:HG12	6	0.55
(2,2107)	1:98:A:LEU:HD12	1:97:A:PHE:HZ	3	0.55
(2,2005)	1:51:A:ILE:HD12	1:69:A:ARG:HA	13	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	6	0.55
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	12	0.55
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	14	0.55
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	6	0.55
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	4	0.55
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	7	0.55
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD22	3	0.55
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	9	0.55
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	3	0.55
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	5	0.55
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	6	0.55
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	9	0.55
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD13	2	0.55
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD11	8	0.55
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD11	13	0.55
(2,1401)	1:39:A:VAL:HG23	1:46:A:PHE:HE2	13	0.55
(2,1338)	1:59:A:ILE:HG23	1:58:A:PRO:HA	9	0.55
(2,1330)	1:115:A:ILE:HG23	1:37:A:GLN:H	7	0.55
(2,1282)	1:31:A:ILE:HD11	1:30:A:GLU:H	2	0.55
(2,1245)	1:81:A:LEU:HD21	1:137:A:ASN:H	6	0.55
(2,1245)	1:81:A:LEU:HD23	1:137:A:ASN:H	8	0.55
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD21	4	0.55
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD23	9	0.55
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD23	10	0.55
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD21	12	0.55
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG23	3	0.55
(2,1116)	1:149:A:ILE:HD11	1:148:A:GLU:HA	17	0.55
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	12	0.55
(2,1063)	1:159:A:ILE:HD12	1:142:A:HIS:HB3	17	0.55
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	4	0.55
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	10	0.55
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	17	0.55
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	19	0.55
(2,753)	1:122:A:LEU:HD23	1:33:A:VAL:HG21	20	0.55
(2,748)	1:122:A:LEU:HD22	1:122:A:LEU:H	6	0.55
(2,628)	1:129:A:VAL:HG13	1:77:A:LEU:HD13	15	0.55
(2,621)	1:89:A:VAL:HG13	1:129:A:VAL:HG23	8	0.55
(2,480)	1:53:A:VAL:HG23	1:31:A:ILE:HD11	15	0.55
(2,479)	1:53:A:VAL:HG23	1:55:A:THR:HG21	4	0.55
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG11	15	0.55
(2,361)	1:89:A:VAL:HG21	1:88:A:VAL:H	13	0.55
(2,361)	1:89:A:VAL:HG23	1:88:A:VAL:H	17	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,300)	1:92:A:LEU:HA	1:92:A:LEU:HD12	16	0.55
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG23	1	0.55
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG21	8	0.55
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG22	13	0.55
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG23	18	0.55
(2,122)	1:142:A:HIS:HA	1:143:A:MET:HB3	17	0.55
(2,47)	1:83:A:ARG:HB2	1:83:A:ARG:HD3	15	0.55
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG23	13	0.55
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG21	14	0.55
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	4	0.54
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	20	0.54
(2,4928)	1:137:A:ASN:HD21	1:160:A:ARG:HB3	3	0.54
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	15	0.54
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	15	0.54
(2,4772)	1:10:A:ARG:H	1:9:A:ARG:HD2	1	0.54
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG23	17	0.54
(2,4714)	1:101:A:LEU:HD22	1:101:A:LEU:H	20	0.54
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG23	1	0.54
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	8	0.54
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	1	0.54
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	13	0.54
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG21	9	0.54
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	8	0.54
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	18	0.54
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	20	0.54
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	7	0.54
(2,4533)	1:88:A:VAL:HG23	1:89:A:VAL:HB	3	0.54
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	11	0.54
(2,4475)	1:141:A:LEU:HD11	1:77:A:LEU:HD13	13	0.54
(2,4474)	1:77:A:LEU:HD12	1:126:A:ILE:HB	1	0.54
(2,4474)	1:77:A:LEU:HD13	1:126:A:ILE:HB	15	0.54
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	9	0.54
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	18	0.54
(2,4434)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	3	0.54
(2,4418)	1:77:A:LEU:HD12	1:144:A:PHE:H	2	0.54
(2,4418)	1:77:A:LEU:HD12	1:144:A:PHE:H	4	0.54
(2,4418)	1:77:A:LEU:HD11	1:144:A:PHE:H	18	0.54
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG2	11	0.54
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	4	0.54
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	12	0.54
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	14	0.54
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	16	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4365)	1:145:A:LEU:HD21	1:146:A:GLN:HG3	9	0.54
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	4	0.54
(2,4350)	1:145:A:LEU:HB3	1:145:A:LEU:HD23	2	0.54
(2,4332)	1:141:A:LEU:HD11	1:132:A:HIS:HB3	2	0.54
(2,4332)	1:141:A:LEU:HD13	1:132:A:HIS:HB3	14	0.54
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	2	0.54
(2,4298)	1:93:A:PRO:HD3	1:125:A:PHE:HE1	20	0.54
(2,4249)	1:12:A:ILE:HD11	1:11:A:LEU:H	1	0.54
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG22	16	0.54
(2,4193)	1:50:A:GLU:HG3	1:68:A:ARG:HD3	8	0.54
(2,4182)	1:141:A:LEU:HD13	1:143:A:MET:HG2	1	0.54
(2,4154)	1:57:A:LEU:HD22	1:29:A:LEU:HD23	1	0.54
(2,4139)	1:137:A:ASN:HB3	1:141:A:LEU:HD23	6	0.54
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD13	18	0.54
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG21	8	0.54
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG22	20	0.54
(2,4096)	1:59:A:ILE:HG22	1:136:A:GLN:H	13	0.54
(2,4094)	1:115:A:ILE:HG21	1:119:A:LYS:H	20	0.54
(2,4051)	1:29:A:LEU:HD22	1:145:A:LEU:HG	14	0.54
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG21	5	0.54
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG22	14	0.54
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG22	11	0.54
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG21	18	0.54
(2,4023)	1:12:A:ILE:HD12	1:10:A:ARG:HD3	17	0.54
(2,3958)	1:109:A:ILE:HD12	1:108:A:GLY:H	20	0.54
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG23	16	0.54
(2,3953)	1:111:A:ASP:HB3	1:108:A:GLY:HA3	9	0.54
(2,3940)	1:115:A:ILE:HD12	1:109:A:ILE:HA	14	0.54
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	6	0.54
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	11	0.54
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG23	1	0.54
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	10	0.54
(2,3844)	1:159:A:ILE:HG22	1:139:A:ARG:HA	8	0.54
(2,3844)	1:159:A:ILE:HG23	1:139:A:ARG:HA	13	0.54
(2,3842)	1:159:A:ILE:HG22	1:142:A:HIS:HA	3	0.54
(2,3842)	1:159:A:ILE:HG23	1:142:A:HIS:HA	19	0.54
(2,3810)	1:129:A:VAL:HG12	1:128:A:LYS:HD2	1	0.54
(2,3810)	1:129:A:VAL:HG11	1:128:A:LYS:HD2	8	0.54
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD11	18	0.54
(2,3765)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	17	0.54
(2,3727)	1:89:A:VAL:HA	1:128:A:LYS:HB2	7	0.54
(2,3687)	1:150:A:ILE:HD12	1:144:A:PHE:H	16	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3660)	1:66:A:THR:HG23	1:52:A:ARG:HB2	9	0.54
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	1	0.54
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG23	5	0.54
(2,3450)	1:130:A:ALA:HB1	1:132:A:HIS:H	14	0.54
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD21	8	0.54
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD21	10	0.54
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	11	0.54
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	14	0.54
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	16	0.54
(2,3056)	1:16:A:GLN:H	1:16:A:GLN:HE22	12	0.54
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	13	0.54
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	17	0.54
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	3	0.54
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	2	0.54
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	3	0.54
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	6	0.54
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	11	0.54
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	9	0.54
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE1	18	0.54
(2,2913)	1:115:A:ILE:HD11	1:37:A:GLN:H	10	0.54
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	13	0.54
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	16	0.54
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	3	0.54
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD22	3	0.54
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD21	19	0.54
(2,2568)	1:108:A:GLY:H	1:107:A:ASP:HB3	10	0.54
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	2	0.54
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	10	0.54
(2,2470)	1:72:A:SER:H	1:75:A:GLU:HB3	1	0.54
(2,2410)	1:109:A:ILE:HG22	1:114:A:PHE:HB2	15	0.54
(2,2408)	1:115:A:ILE:HG23	1:116:A:GLU:HG2	8	0.54
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	3	0.54
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	5	0.54
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	6	0.54
(2,2358)	1:85:A:SER:HB2	1:81:A:LEU:HD23	5	0.54
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD21	6	0.54
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD23	8	0.54
(2,2315)	1:77:A:LEU:HD21	1:144:A:PHE:H	14	0.54
(2,2315)	1:77:A:LEU:HD23	1:144:A:PHE:H	17	0.54
(2,2197)	1:126:A:ILE:HD11	1:77:A:LEU:HD12	12	0.54
(2,2131)	1:29:A:LEU:HD21	1:136:A:GLN:HE21	14	0.54
(2,2107)	1:98:A:LEU:HD13	1:97:A:PHE:HZ	2	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2107)	1:98:A:LEU:HD13	1:97:A:PHE:HZ	12	0.54
(2,2047)	1:51:A:ILE:HG12	1:52:A:ARG:H	5	0.54
(2,2014)	1:134:A:LEU:HD11	1:137:A:ASN:HD22	9	0.54
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	12	0.54
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD21	8	0.54
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	8	0.54
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	13	0.54
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD11	5	0.54
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD13	10	0.54
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD13	16	0.54
(2,1371)	1:21:A:ALA:HB3	1:22:A:TYR:HD1	19	0.54
(2,1330)	1:115:A:ILE:HG21	1:37:A:GLN:H	12	0.54
(2,1303)	1:31:A:ILE:HD12	1:31:A:ILE:HA	6	0.54
(2,1282)	1:31:A:ILE:HD11	1:30:A:GLU:H	6	0.54
(2,1245)	1:81:A:LEU:HD21	1:137:A:ASN:H	18	0.54
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD21	6	0.54
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD23	7	0.54
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD21	13	0.54
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD21	14	0.54
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD23	16	0.54
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD21	17	0.54
(2,1134)	1:59:A:ILE:HD13	1:159:A:ILE:H	1	0.54
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	16	0.54
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD11	10	0.54
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD11	12	0.54
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG22	8	0.54
(2,877)	1:115:A:ILE:HG23	1:47:A:THR:HG21	2	0.54
(2,877)	1:115:A:ILE:HG22	1:47:A:THR:HG21	4	0.54
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	5	0.54
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	7	0.54
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	16	0.54
(2,618)	1:89:A:VAL:HG21	1:129:A:VAL:HG12	15	0.54
(2,618)	1:89:A:VAL:HG21	1:129:A:VAL:HG13	19	0.54
(2,531)	1:143:A:MET:HE2	1:154:A:TYR:HB2	17	0.54
(2,495)	1:126:A:ILE:HG21	1:31:A:ILE:HD13	8	0.54
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD13	10	0.54
(2,485)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	20	0.54
(2,479)	1:53:A:VAL:HG23	1:55:A:THR:HG23	16	0.54
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG12	14	0.54
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	7	0.54
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	12	0.54
(2,361)	1:89:A:VAL:HG22	1:88:A:VAL:H	12	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,361)	1:89:A:VAL:HG21	1:88:A:VAL:H	20	0.54
(2,47)	1:83:A:ARG:HB2	1:83:A:ARG:HD3	1	0.54
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	15	0.53
(2,4943)	1:140:A:CYS:H	1:161:A:HIS:HD2	8	0.53
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	17	0.53
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	17	0.53
(2,4775)	1:11:A:LEU:HB3	1:11:A:LEU:H	10	0.53
(2,4760)	1:5:A:VAL:HG23	1:4:A:THR:H	17	0.53
(2,4725)	1:50:A:GLU:H	1:36:A:PRO:HB3	4	0.53
(2,4714)	1:101:A:LEU:HD22	1:101:A:LEU:H	9	0.53
(2,4714)	1:101:A:LEU:HD21	1:101:A:LEU:H	10	0.53
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	5	0.53
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	11	0.53
(2,4704)	1:31:A:ILE:HD13	1:130:A:ALA:H	15	0.53
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	14	0.53
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	6	0.53
(2,4678)	1:19:A:ASN:HD21	1:18:A:LEU:HB3	4	0.53
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	5	0.53
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	7	0.53
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG2	19	0.53
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	13	0.53
(2,4544)	1:85:A:SER:HB3	1:86:A:LYS:HG3	19	0.53
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	18	0.53
(2,4503)	1:82:A:GLU:HG2	1:84:A:GLU:H	6	0.53
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	10	0.53
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	14	0.53
(2,4474)	1:77:A:LEU:HD11	1:126:A:ILE:HB	19	0.53
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	5	0.53
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	19	0.53
(2,4437)	1:31:A:ILE:HG22	1:53:A:VAL:HG12	1	0.53
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG12	5	0.53
(2,4418)	1:77:A:LEU:HD13	1:144:A:PHE:H	13	0.53
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	20	0.53
(2,4358)	1:157:A:SER:HA	1:158:A:LYS:HD2	19	0.53
(2,4347)	1:145:A:LEU:HD21	1:144:A:PHE:HD1	1	0.53
(2,4319)	1:115:A:ILE:HG21	1:118:A:ARG:HB3	16	0.53
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	15	0.53
(2,4154)	1:57:A:LEU:HD22	1:29:A:LEU:HD23	12	0.53
(2,4139)	1:137:A:ASN:HB3	1:141:A:LEU:HD22	20	0.53
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD12	11	0.53
(2,4128)	1:149:A:ILE:HB	1:150:A:ILE:HD11	13	0.53
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG23	2	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4060)	1:160:A:ARG:HA	1:161:A:HIS:HD2	4	0.53
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	3	0.53
(2,4041)	1:45:A:ARG:HD3	1:41:A:VAL:HA	4	0.53
(2,4030)	1:152:A:LYS:HD2	1:76:A:TRP:HD1	15	0.53
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG21	4	0.53
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG21	10	0.53
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	2	0.53
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	12	0.53
(2,3869)	1:158:A:LYS:HD3	1:137:A:ASN:HD21	5	0.53
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	1	0.53
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	1	0.53
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	2	0.53
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	13	0.53
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	14	0.53
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	18	0.53
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB2	15	0.53
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	18	0.53
(2,3844)	1:159:A:ILE:HG22	1:139:A:ARG:HA	14	0.53
(2,3842)	1:159:A:ILE:HG21	1:142:A:HIS:HA	4	0.53
(2,3776)	1:39:A:VAL:HG13	1:46:A:PHE:HZ	2	0.53
(2,3772)	1:126:A:ILE:HG22	1:32:A:ASP:HA	13	0.53
(2,3772)	1:126:A:ILE:HG22	1:32:A:ASP:HA	19	0.53
(2,3771)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	20	0.53
(2,3762)	1:53:A:VAL:HG21	1:64:A:GLU:HB3	13	0.53
(2,3747)	1:0:A:GLY:HA3	1:-1:A:VAL:HG12	5	0.53
(2,3708)	1:92:A:LEU:HD11	1:78:A:ARG:H	16	0.53
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	4	0.53
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	7	0.53
(2,3571)	1:76:A:TRP:HE1	1:150:A:ILE:HG13	17	0.53
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	2	0.53
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD22	6	0.53
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD21	15	0.53
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD22	16	0.53
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG13	12	0.53
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD11	6	0.53
(2,3020)	1:8:A:THR:HG22	1:9:A:ARG:H	19	0.53
(2,2991)	1:26:A:SER:H	1:27:A:ASN:HB3	6	0.53
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	8	0.53
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	17	0.53
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	17	0.53
(2,2913)	1:115:A:ILE:HD12	1:37:A:GLN:H	20	0.53
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	13	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD23	13	0.53
(2,2410)	1:109:A:ILE:HG23	1:114:A:PHE:HB2	8	0.53
(2,2408)	1:115:A:ILE:HG21	1:116:A:GLU:HG2	2	0.53
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	15	0.53
(2,2312)	1:77:A:LEU:HD22	1:144:A:PHE:HZ	8	0.53
(2,2288)	1:162:A:ALA:HB3	1:161:A:HIS:HB2	6	0.53
(2,2263)	1:134:A:LEU:HD23	1:135:A:ALA:HA	7	0.53
(2,2263)	1:134:A:LEU:HD21	1:135:A:ALA:HA	17	0.53
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	13	0.53
(2,2107)	1:98:A:LEU:HD11	1:97:A:PHE:HZ	16	0.53
(2,2014)	1:134:A:LEU:HD12	1:137:A:ASN:HD22	8	0.53
(2,2014)	1:134:A:LEU:HD12	1:137:A:ASN:HD22	14	0.53
(2,1953)	1:145:A:LEU:HD23	1:141:A:LEU:HB3	19	0.53
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	19	0.53
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	8	0.53
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	12	0.53
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD12	3	0.53
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD12	6	0.53
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD11	14	0.53
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD12	20	0.53
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	17	0.53
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	19	0.53
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	20	0.53
(2,1370)	1:21:A:ALA:HB2	1:20:A:ASP:H	7	0.53
(2,1362)	1:135:A:ALA:HB2	1:132:A:HIS:HB2	1	0.53
(2,1362)	1:135:A:ALA:HB2	1:132:A:HIS:HB2	8	0.53
(2,1362)	1:135:A:ALA:HB3	1:132:A:HIS:HB2	12	0.53
(2,1323)	1:150:A:ILE:HG23	1:149:A:ILE:HG22	12	0.53
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG22	18	0.53
(2,1295)	1:51:A:ILE:HD13	1:122:A:LEU:HB2	5	0.53
(2,1245)	1:81:A:LEU:HD23	1:137:A:ASN:H	9	0.53
(2,1242)	1:81:A:LEU:HB2	1:81:A:LEU:HD23	2	0.53
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG21	10	0.53
(2,1147)	1:122:A:LEU:HD13	1:93:A:PRO:HB3	18	0.53
(2,1134)	1:59:A:ILE:HD12	1:159:A:ILE:H	10	0.53
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	4	0.53
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	9	0.53
(2,1031)	1:148:A:GLU:HG2	1:67:A:VAL:HG12	9	0.53
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	7	0.53
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD11	7	0.53
(2,877)	1:115:A:ILE:HG21	1:47:A:THR:HG21	3	0.53
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	3	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,621)	1:89:A:VAL:HG13	1:129:A:VAL:HG23	1	0.53
(2,618)	1:89:A:VAL:HG23	1:129:A:VAL:HG13	14	0.53
(2,423)	1:87:A:VAL:HG13	1:88:A:VAL:HG11	10	0.53
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG13	3	0.53
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	1	0.53
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	2	0.53
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	9	0.53
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	14	0.53
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	16	0.53
(2,306)	1:92:A:LEU:HD23	1:75:A:GLU:H	14	0.53
(2,306)	1:92:A:LEU:HD23	1:75:A:GLU:H	20	0.53
(2,257)	1:150:A:ILE:HD13	1:152:A:LYS:HE2	8	0.53
(2,257)	1:150:A:ILE:HD12	1:152:A:LYS:HE2	20	0.53
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD2	17	0.53
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG23	2	0.53
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG22	3	0.53
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG21	20	0.53
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE2	14	0.53
(2,47)	1:83:A:ARG:HB2	1:83:A:ARG:HD3	9	0.53
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	14	0.52
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	5	0.52
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	6	0.52
(2,4959)	1:116:A:GLU:H	1:117:A:GLU:HB2	19	0.52
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	3	0.52
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG13	9	0.52
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG23	14	0.52
(2,4727)	1:33:A:VAL:HG21	1:50:A:GLU:H	6	0.52
(2,4727)	1:33:A:VAL:HG23	1:50:A:GLU:H	15	0.52
(2,4714)	1:101:A:LEU:HD23	1:101:A:LEU:H	1	0.52
(2,4704)	1:31:A:ILE:HD11	1:130:A:ALA:H	8	0.52
(2,4701)	1:44:A:GLY:H	1:110:A:PHE:HE1	1	0.52
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	12	0.52
(2,4678)	1:19:A:ASN:HD21	1:18:A:LEU:HB3	11	0.52
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	12	0.52
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	14	0.52
(2,4623)	1:134:A:LEU:HD22	1:88:A:VAL:H	14	0.52
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	20	0.52
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	14	0.52
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	2	0.52
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	7	0.52
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	10	0.52
(2,4533)	1:88:A:VAL:HG21	1:90:A:PRO:HB2	1	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	2	0.52
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	2	0.52
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG11	12	0.52
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG12	18	0.52
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	17	0.52
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	18	0.52
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	20	0.52
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	6	0.52
(2,4332)	1:141:A:LEU:HD11	1:132:A:HIS:HB3	20	0.52
(2,4325)	1:33:A:VAL:HG22	1:119:A:LYS:HG3	3	0.52
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	11	0.52
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	19	0.52
(2,4287)	1:86:A:LYS:HE3	1:134:A:LEU:HD12	19	0.52
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	19	0.52
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	5	0.52
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	20	0.52
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD12	4	0.52
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG22	18	0.52
(2,4116)	1:135:A:ALA:HB3	1:88:A:VAL:H	1	0.52
(2,4043)	1:45:A:ARG:HD2	1:110:A:PHE:HD2	2	0.52
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG21	1	0.52
(2,4015)	1:43:A:ARG:HG2	1:106:A:ASP:HB2	19	0.52
(2,3990)	1:26:A:SER:HB2	1:25:A:PRO:HB2	5	0.52
(2,3990)	1:26:A:SER:HB2	1:25:A:PRO:HB2	16	0.52
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	11	0.52
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	12	0.52
(2,3947)	1:115:A:ILE:HG21	1:36:A:PRO:HG2	4	0.52
(2,3947)	1:115:A:ILE:HG22	1:36:A:PRO:HG2	5	0.52
(2,3940)	1:115:A:ILE:HD12	1:109:A:ILE:HA	7	0.52
(2,3930)	1:119:A:LYS:HE2	1:116:A:GLU:HG2	4	0.52
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	17	0.52
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	8	0.52
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	17	0.52
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	4	0.52
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	7	0.52
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	2	0.52
(2,3844)	1:159:A:ILE:HG23	1:139:A:ARG:HA	15	0.52
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	17	0.52
(2,3795)	1:130:A:ALA:HB1	1:131:A:GLY:H	4	0.52
(2,3764)	1:53:A:VAL:HG21	1:30:A:GLU:HG3	20	0.52
(2,3762)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	6	0.52
(2,3727)	1:89:A:VAL:HA	1:128:A:LYS:HB2	12	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	7	0.52
(2,3676)	1:11:A:LEU:HA	1:11:A:LEU:H	8	0.52
(2,3660)	1:66:A:THR:HG22	1:52:A:ARG:HB2	20	0.52
(2,3640)	1:79:A:SER:HB3	1:82:A:GLU:HB2	14	0.52
(2,3566)	1:1:A:THR:H	1:2:A:ALA:HB2	17	0.52
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE1	4	0.52
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD21	11	0.52
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD22	19	0.52
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	1	0.52
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	6	0.52
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	7	0.52
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD13	16	0.52
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	6	0.52
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	14	0.52
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	12	0.52
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD22	5	0.52
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	12	0.52
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	13	0.52
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	14	0.52
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	18	0.52
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	2	0.52
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	12	0.52
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	20	0.52
(2,2913)	1:115:A:ILE:HD12	1:37:A:GLN:H	6	0.52
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	17	0.52
(2,2579)	1:99:A:ARG:H	1:99:A:ARG:HG3	7	0.52
(2,2579)	1:99:A:ARG:H	1:99:A:ARG:HG3	14	0.52
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	1	0.52
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	6	0.52
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	7	0.52
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	13	0.52
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	14	0.52
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	17	0.52
(2,2521)	1:83:A:ARG:H	1:85:A:SER:HB2	20	0.52
(2,2470)	1:72:A:SER:H	1:75:A:GLU:HB3	11	0.52
(2,2410)	1:109:A:ILE:HG22	1:114:A:PHE:HB2	4	0.52
(2,2410)	1:109:A:ILE:HG22	1:114:A:PHE:HB2	14	0.52
(2,2384)	1:60:A:PHE:HB3	1:57:A:LEU:HB3	17	0.52
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	10	0.52
(2,2315)	1:77:A:LEU:HD22	1:144:A:PHE:H	6	0.52
(2,2315)	1:77:A:LEU:HD23	1:144:A:PHE:H	18	0.52
(2,2107)	1:98:A:LEU:HD13	1:97:A:PHE:HZ	11	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2107)	1:98:A:LEU:HD13	1:97:A:PHE:HZ	17	0.52
(2,2107)	1:98:A:LEU:HD12	1:97:A:PHE:HZ	20	0.52
(2,2014)	1:134:A:LEU:HD12	1:137:A:ASN:HD22	11	0.52
(2,2014)	1:134:A:LEU:HD11	1:137:A:ASN:HD22	17	0.52
(2,1919)	1:33:A:VAL:HG21	1:49:A:TYR:HB2	16	0.52
(2,1865)	1:98:A:LEU:HD11	1:94:A:GLY:HA3	19	0.52
(2,1780)	1:14:A:LYS:HB3	1:15:A:PRO:HD3	3	0.52
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	11	0.52
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	2	0.52
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD13	18	0.52
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	2	0.52
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	4	0.52
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	6	0.52
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	7	0.52
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	9	0.52
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	13	0.52
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	14	0.52
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	15	0.52
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	16	0.52
(2,1401)	1:39:A:VAL:HG21	1:46:A:PHE:HE2	18	0.52
(2,1335)	1:59:A:ILE:HG21	1:57:A:LEU:H	5	0.52
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	6	0.52
(2,1134)	1:59:A:ILE:HD11	1:159:A:ILE:H	13	0.52
(2,1116)	1:149:A:ILE:HD12	1:148:A:GLU:HA	9	0.52
(2,1116)	1:149:A:ILE:HD13	1:148:A:GLU:HA	16	0.52
(2,1093)	1:139:A:ARG:HG2	1:154:A:TYR:HE2	14	0.52
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	6	0.52
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	3	0.52
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	10	0.52
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	15	0.52
(2,1020)	1:148:A:GLU:HB3	1:67:A:VAL:HG12	7	0.52
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG21	15	0.52
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	2	0.52
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	6	0.52
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	15	0.52
(2,618)	1:89:A:VAL:HG21	1:129:A:VAL:HG13	1	0.52
(2,618)	1:89:A:VAL:HG23	1:129:A:VAL:HG11	5	0.52
(2,618)	1:89:A:VAL:HG23	1:129:A:VAL:HG12	10	0.52
(2,428)	1:13:A:THR:HG21	1:12:A:ILE:H	19	0.52
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	13	0.52
(2,361)	1:89:A:VAL:HG21	1:88:A:VAL:H	3	0.52
(2,361)	1:89:A:VAL:HG22	1:88:A:VAL:H	9	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,257)	1:150:A:ILE:HD12	1:152:A:LYS:HE2	18	0.52
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD2	2	0.52
(2,247)	1:150:A:ILE:HG22	1:76:A:TRP:HZ2	11	0.52
(2,247)	1:150:A:ILE:HG22	1:76:A:TRP:HZ2	16	0.52
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG23	10	0.52
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG22	15	0.52
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG23	16	0.52
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	8	0.52
(2,60)	1:81:A:LEU:HA	1:85:A:SER:HB2	20	0.52
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG21	12	0.52
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG22	17	0.52
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG21	18	0.52
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	1	0.51
(2,4885)	1:120:A:GLN:HE21	1:117:A:GLU:HG3	9	0.51
(2,4873)	1:113:A:ASN:H	1:117:A:GLU:HG3	18	0.51
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	2	0.51
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	1	0.51
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	2	0.51
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	3	0.51
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD1	3	0.51
(2,4807)	1:57:A:LEU:H	1:28:A:PHE:HE2	19	0.51
(2,4786)	1:56:A:ASN:HD21	1:58:A:PRO:HG3	3	0.51
(2,4775)	1:11:A:LEU:HB3	1:11:A:LEU:H	3	0.51
(2,4775)	1:11:A:LEU:HB3	1:11:A:LEU:H	11	0.51
(2,4760)	1:5:A:VAL:HG12	1:4:A:THR:H	4	0.51
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	8	0.51
(2,4714)	1:101:A:LEU:HD22	1:101:A:LEU:H	16	0.51
(2,4714)	1:101:A:LEU:HD22	1:101:A:LEU:H	19	0.51
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG23	16	0.51
(2,4704)	1:31:A:ILE:HD11	1:130:A:ALA:H	9	0.51
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	7	0.51
(2,4653)	1:146:A:GLN:H	1:67:A:VAL:HG13	5	0.51
(2,4653)	1:146:A:GLN:H	1:67:A:VAL:HG12	17	0.51
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	10	0.51
(2,4623)	1:134:A:LEU:HD21	1:88:A:VAL:H	11	0.51
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	6	0.51
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	1	0.51
(2,4471)	1:77:A:LEU:HD13	1:141:A:LEU:HA	13	0.51
(2,4469)	1:77:A:LEU:HD12	1:130:A:ALA:HB1	19	0.51
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	1	0.51
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	7	0.51
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	15	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	19	0.51
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	20	0.51
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	8	0.51
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	17	0.51
(2,4441)	1:33:A:VAL:HG13	1:122:A:LEU:H	15	0.51
(2,4437)	1:31:A:ILE:HG23	1:53:A:VAL:HG13	8	0.51
(2,4434)	1:29:A:LEU:HD11	1:30:A:GLU:HB3	16	0.51
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	1	0.51
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	11	0.51
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	1	0.51
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	15	0.51
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	9	0.51
(2,4298)	1:93:A:PRO:HD3	1:74:A:PHE:HD2	11	0.51
(2,4274)	1:82:A:GLU:HG2	1:81:A:LEU:HA	4	0.51
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	10	0.51
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB3	2	0.51
(2,4182)	1:136:A:GLN:HG2	1:141:A:LEU:HD11	10	0.51
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG21	1	0.51
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG22	19	0.51
(2,4119)	1:5:A:VAL:HG22	1:4:A:THR:HB	1	0.51
(2,4039)	1:45:A:ARG:HA	1:41:A:VAL:HG23	13	0.51
(2,4030)	1:152:A:LYS:HD3	1:76:A:TRP:HD1	3	0.51
(2,3989)	1:26:A:SER:HB2	1:24:A:PRO:HB3	5	0.51
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	2	0.51
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	8	0.51
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	13	0.51
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	16	0.51
(2,3942)	1:115:A:ILE:HG22	1:119:A:LYS:HE2	16	0.51
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	12	0.51
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	17	0.51
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG23	4	0.51
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG12	14	0.51
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	11	0.51
(2,3844)	1:159:A:ILE:HG22	1:139:A:ARG:HA	7	0.51
(2,3844)	1:159:A:ILE:HG22	1:139:A:ARG:HA	16	0.51
(2,3840)	1:55:A:THR:HG22	1:60:A:PHE:HE2	10	0.51
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	7	0.51
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	20	0.51
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD11	12	0.51
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG22	15	0.51
(2,3755)	1:48:A:THR:HG21	1:68:A:ARG:HD2	9	0.51
(2,3727)	1:89:A:VAL:HA	1:128:A:LYS:HB2	18	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	6	0.51
(2,3688)	1:150:A:ILE:HD12	1:73:A:ASP:H	18	0.51
(2,3660)	1:66:A:THR:HG21	1:52:A:ARG:HB2	15	0.51
(2,3606)	1:90:A:PRO:HD3	1:88:A:VAL:HG21	8	0.51
(2,3520)	1:161:A:HIS:HB3	1:162:A:ALA:H	11	0.51
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	18	0.51
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	5	0.51
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG12	8	0.51
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD12	4	0.51
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD11	13	0.51
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD12	18	0.51
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	16	0.51
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	10	0.51
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	15	0.51
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	16	0.51
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	1	0.51
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	13	0.51
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	1	0.51
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	3	0.51
(2,2747)	1:122:A:LEU:HD23	1:121:A:GLY:H	3	0.51
(2,2747)	1:122:A:LEU:HD22	1:121:A:GLY:H	15	0.51
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	3	0.51
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	8	0.51
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	16	0.51
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	18	0.51
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	20	0.51
(2,2410)	1:109:A:ILE:HG23	1:114:A:PHE:HB2	2	0.51
(2,2410)	1:109:A:ILE:HG22	1:114:A:PHE:HB2	9	0.51
(2,2408)	1:115:A:ILE:HG21	1:116:A:GLU:HG2	15	0.51
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD21	14	0.51
(2,2315)	1:77:A:LEU:HD22	1:144:A:PHE:H	2	0.51
(2,2288)	1:162:A:ALA:HB2	1:161:A:HIS:HB2	7	0.51
(2,2288)	1:162:A:ALA:HB3	1:161:A:HIS:HB2	9	0.51
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	6	0.51
(2,2107)	1:98:A:LEU:HD13	1:97:A:PHE:HZ	5	0.51
(2,2107)	1:98:A:LEU:HD11	1:97:A:PHE:HZ	8	0.51
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	12	0.51
(2,2033)	1:53:A:VAL:HG21	1:54:A:LYS:HB2	17	0.51
(2,2005)	1:51:A:ILE:HD13	1:69:A:ARG:HA	20	0.51
(2,1919)	1:33:A:VAL:HG22	1:49:A:TYR:HB2	18	0.51
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	16	0.51
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	19	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1871)	1:78:A:ARG:HD3	1:89:A:VAL:HG23	20	0.51
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	9	0.51
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD13	1	0.51
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD11	9	0.51
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD11	15	0.51
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD12	19	0.51
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	3	0.51
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	5	0.51
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	18	0.51
(2,1362)	1:135:A:ALA:HB2	1:132:A:HIS:HB2	2	0.51
(2,1362)	1:135:A:ALA:HB3	1:132:A:HIS:HB2	7	0.51
(2,1338)	1:59:A:ILE:HG23	1:58:A:PRO:HA	14	0.51
(2,1338)	1:59:A:ILE:HG22	1:58:A:PRO:HA	15	0.51
(2,1335)	1:59:A:ILE:HG21	1:57:A:LEU:H	19	0.51
(2,1316)	1:148:A:GLU:HG2	1:149:A:ILE:HG21	11	0.51
(2,1245)	1:81:A:LEU:HD22	1:137:A:ASN:H	20	0.51
(2,1244)	1:81:A:LEU:HD22	1:135:A:ALA:HB1	3	0.51
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	13	0.51
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	13	0.51
(2,1116)	1:149:A:ILE:HD12	1:148:A:GLU:HA	6	0.51
(2,1116)	1:149:A:ILE:HD12	1:148:A:GLU:HA	8	0.51
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	20	0.51
(2,877)	1:115:A:ILE:HG23	1:47:A:THR:HG22	7	0.51
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	8	0.51
(2,618)	1:89:A:VAL:HG22	1:129:A:VAL:HG12	8	0.51
(2,618)	1:89:A:VAL:HG22	1:129:A:VAL:HG12	11	0.51
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD11	9	0.51
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD12	20	0.51
(2,479)	1:53:A:VAL:HG21	1:55:A:THR:HG22	18	0.51
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG13	3	0.51
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	6	0.51
(2,361)	1:89:A:VAL:HG21	1:88:A:VAL:H	7	0.51
(2,361)	1:89:A:VAL:HG23	1:88:A:VAL:H	19	0.51
(2,306)	1:92:A:LEU:HD21	1:75:A:GLU:H	5	0.51
(2,306)	1:92:A:LEU:HD22	1:75:A:GLU:H	6	0.51
(2,264)	1:150:A:ILE:HG21	1:150:A:ILE:HG13	15	0.51
(2,264)	1:150:A:ILE:HG21	1:150:A:ILE:HG13	17	0.51
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD2	5	0.51
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD2	9	0.51
(2,243)	1:150:A:ILE:HD13	1:150:A:ILE:H	15	0.51
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	14	0.51
(2,4969)	1:152:A:LYS:HB2	1:76:A:TRP:HE1	3	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	16	0.5
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	20	0.5
(2,4925)	1:137:A:ASN:HD22	1:160:A:ARG:HA	5	0.5
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	11	0.5
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	9	0.5
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	3	0.5
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	9	0.5
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD1	9	0.5
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG11	4	0.5
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG11	15	0.5
(2,4775)	1:11:A:LEU:H	1:10:A:ARG:HG2	7	0.5
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG2	16	0.5
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	2	0.5
(2,4704)	1:31:A:ILE:HD12	1:130:A:ALA:H	17	0.5
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	15	0.5
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	15	0.5
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	11	0.5
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	18	0.5
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	20	0.5
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG3	14	0.5
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	9	0.5
(2,4533)	1:88:A:VAL:HG23	1:90:A:PRO:HB2	13	0.5
(2,4533)	1:88:A:VAL:HG21	1:90:A:PRO:HB2	16	0.5
(2,4506)	1:77:A:LEU:HD11	1:81:A:LEU:HA	7	0.5
(2,4506)	1:77:A:LEU:HD12	1:81:A:LEU:HA	9	0.5
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	5	0.5
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	3	0.5
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	11	0.5
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	13	0.5
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	18	0.5
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	13	0.5
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	15	0.5
(2,4423)	1:33:A:VAL:HG21	1:122:A:LEU:HG	5	0.5
(2,4414)	1:11:A:LEU:HA	1:10:A:ARG:HB2	16	0.5
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	2	0.5
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	7	0.5
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG21	17	0.5
(2,4335)	1:59:A:ILE:HG23	1:141:A:LEU:HB3	19	0.5
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	5	0.5
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	18	0.5
(2,4298)	1:93:A:PRO:HD3	1:125:A:PHE:HE1	1	0.5
(2,4298)	1:93:A:PRO:HD3	1:125:A:PHE:HE1	13	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	18	0.5
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	16	0.5
(2,4193)	1:50:A:GLU:HG3	1:68:A:ARG:HD2	1	0.5
(2,4183)	1:129:A:VAL:HG13	1:141:A:LEU:HD13	8	0.5
(2,4183)	1:129:A:VAL:HG11	1:141:A:LEU:HD13	19	0.5
(2,4182)	1:141:A:LEU:HD13	1:143:A:MET:HG2	16	0.5
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD12	3	0.5
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG22	12	0.5
(2,4023)	1:12:A:ILE:HD12	1:10:A:ARG:HD3	20	0.5
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	8	0.5
(2,3990)	1:26:A:SER:HB2	1:25:A:PRO:HB2	18	0.5
(2,3982)	1:104:A:ARG:HD2	1:104:A:ARG:HB2	18	0.5
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	1	0.5
(2,3958)	1:109:A:ILE:HD12	1:108:A:GLY:H	3	0.5
(2,3953)	1:111:A:ASP:HB3	1:108:A:GLY:HA2	14	0.5
(2,3947)	1:115:A:ILE:HG23	1:36:A:PRO:HG2	12	0.5
(2,3943)	1:115:A:ILE:HD11	1:112:A:ASP:HB2	18	0.5
(2,3940)	1:115:A:ILE:HD12	1:109:A:ILE:HA	15	0.5
(2,3930)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	5	0.5
(2,3930)	1:119:A:LYS:HE2	1:116:A:GLU:HG2	7	0.5
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	15	0.5
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	7	0.5
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	11	0.5
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	15	0.5
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	17	0.5
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	7	0.5
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	10	0.5
(2,3844)	1:159:A:ILE:HG22	1:139:A:ARG:HA	11	0.5
(2,3844)	1:159:A:ILE:HG23	1:139:A:ARG:HA	17	0.5
(2,3842)	1:159:A:ILE:HG21	1:142:A:HIS:HA	2	0.5
(2,3840)	1:55:A:THR:HG22	1:60:A:PHE:HE2	11	0.5
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	4	0.5
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	7	0.5
(2,3793)	1:130:A:ALA:HB2	1:126:A:ILE:HD12	3	0.5
(2,3755)	1:48:A:THR:HG22	1:46:A:PHE:HB2	2	0.5
(2,3754)	1:145:A:LEU:HA	1:53:A:VAL:HG12	17	0.5
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	3	0.5
(2,3739)	1:87:A:VAL:HB	1:86:A:LYS:H	4	0.5
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	5	0.5
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	11	0.5
(2,3709)	1:92:A:LEU:HD12	1:79:A:SER:HB3	10	0.5
(2,3708)	1:92:A:LEU:HD11	1:78:A:ARG:H	1	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3708)	1:92:A:LEU:HD13	1:78:A:ARG:H	17	0.5
(2,3676)	1:11:A:LEU:HA	1:11:A:LEU:H	2	0.5
(2,3660)	1:66:A:THR:HG23	1:52:A:ARG:HB2	18	0.5
(2,3658)	1:66:A:THR:HG22	1:52:A:ARG:HD2	16	0.5
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	9	0.5
(2,3615)	1:32:A:ASP:HB3	1:53:A:VAL:HB	14	0.5
(2,3450)	1:130:A:ALA:HB2	1:132:A:HIS:H	15	0.5
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD21	4	0.5
(2,3278)	1:66:A:THR:HG22	1:66:A:THR:H	13	0.5
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG12	10	0.5
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	18	0.5
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	17	0.5
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	6	0.5
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	16	0.5
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	5	0.5
(2,2913)	1:115:A:ILE:HD12	1:37:A:GLN:H	16	0.5
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB3	5	0.5
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	7	0.5
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	10	0.5
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD23	5	0.5
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	12	0.5
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	15	0.5
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD22	9	0.5
(2,2408)	1:115:A:ILE:HG22	1:116:A:GLU:HG2	1	0.5
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD21	15	0.5
(2,2338)	1:29:A:LEU:HD22	1:130:A:ALA:H	1	0.5
(2,2315)	1:77:A:LEU:HD22	1:144:A:PHE:H	10	0.5
(2,2210)	1:77:A:LEU:HD12	1:144:A:PHE:HD2	5	0.5
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	3	0.5
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	7	0.5
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	10	0.5
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	13	0.5
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	14	0.5
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	15	0.5
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	16	0.5
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	18	0.5
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	20	0.5
(2,2107)	1:98:A:LEU:HD13	1:97:A:PHE:HZ	7	0.5
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	3	0.5
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD12	14	0.5
(2,1950)	1:145:A:LEU:HD21	1:145:A:LEU:H	10	0.5
(2,1883)	1:22:A:TYR:HB2	1:22:A:TYR:HA	18	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD22	15	0.5
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	2	0.5
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD13	12	0.5
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	1	0.5
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	8	0.5
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	11	0.5
(2,1401)	1:39:A:VAL:HG23	1:46:A:PHE:HE2	11	0.5
(2,1401)	1:39:A:VAL:HG21	1:46:A:PHE:HE2	19	0.5
(2,1362)	1:135:A:ALA:HB3	1:132:A:HIS:HB2	18	0.5
(2,1338)	1:59:A:ILE:HG22	1:58:A:PRO:HA	19	0.5
(2,1335)	1:59:A:ILE:HG21	1:57:A:LEU:H	20	0.5
(2,1244)	1:81:A:LEU:HD21	1:135:A:ALA:HB1	4	0.5
(2,1244)	1:81:A:LEU:HD21	1:135:A:ALA:HB2	12	0.5
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	12	0.5
(2,1116)	1:149:A:ILE:HD12	1:148:A:GLU:HA	11	0.5
(2,1063)	1:159:A:ILE:HD11	1:142:A:HIS:HB3	20	0.5
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	12	0.5
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	19	0.5
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD11	5	0.5
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG23	3	0.5
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	8	0.5
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	13	0.5
(2,748)	1:122:A:LEU:HD21	1:122:A:LEU:H	1	0.5
(2,748)	1:122:A:LEU:HD22	1:122:A:LEU:H	2	0.5
(2,629)	1:129:A:VAL:HG22	1:77:A:LEU:HD12	7	0.5
(2,618)	1:89:A:VAL:HG23	1:129:A:VAL:HG13	2	0.5
(2,618)	1:89:A:VAL:HG21	1:129:A:VAL:HG11	4	0.5
(2,618)	1:89:A:VAL:HG22	1:129:A:VAL:HG12	20	0.5
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	15	0.5
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD12	5	0.5
(2,495)	1:126:A:ILE:HG21	1:31:A:ILE:HD13	18	0.5
(2,485)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	10	0.5
(2,485)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	19	0.5
(2,479)	1:53:A:VAL:HG21	1:55:A:THR:HG21	3	0.5
(2,479)	1:53:A:VAL:HG21	1:55:A:THR:HG21	7	0.5
(2,479)	1:53:A:VAL:HG23	1:55:A:THR:HG21	8	0.5
(2,423)	1:87:A:VAL:HG13	1:88:A:VAL:HG12	5	0.5
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG13	17	0.5
(2,361)	1:89:A:VAL:HG22	1:88:A:VAL:H	5	0.5
(2,306)	1:92:A:LEU:HD21	1:75:A:GLU:H	7	0.5
(2,306)	1:92:A:LEU:HD21	1:75:A:GLU:H	13	0.5
(2,247)	1:150:A:ILE:HG23	1:76:A:TRP:HZ2	2	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,224)	1:155:A:THR:HG22	1:139:A:ARG:HG2	7	0.5
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	9	0.49
(2,4928)	1:137:A:ASN:HD21	1:160:A:ARG:HB2	20	0.49
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	17	0.49
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	6	0.49
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	13	0.49
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	5	0.49
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	7	0.49
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	10	0.49
(2,4807)	1:57:A:LEU:H	1:59:A:ILE:H	13	0.49
(2,4775)	1:11:A:LEU:HB3	1:11:A:LEU:H	14	0.49
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG12	12	0.49
(2,4727)	1:33:A:VAL:HG21	1:50:A:GLU:H	7	0.49
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	6	0.49
(2,4704)	1:31:A:ILE:HD13	1:130:A:ALA:H	18	0.49
(2,4696)	1:45:A:ARG:H	1:46:A:PHE:HD1	4	0.49
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	15	0.49
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	17	0.49
(2,4623)	1:134:A:LEU:HD21	1:88:A:VAL:H	20	0.49
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	3	0.49
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	19	0.49
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	13	0.49
(2,4498)	1:137:A:ASN:HB2	1:138:A:GLU:HG2	15	0.49
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	3	0.49
(2,4493)	1:29:A:LEU:HD23	1:130:A:ALA:HA	6	0.49
(2,4475)	1:141:A:LEU:HD12	1:77:A:LEU:HD11	9	0.49
(2,4471)	1:77:A:LEU:HD12	1:126:A:ILE:HA	8	0.49
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	3	0.49
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	16	0.49
(2,4418)	1:77:A:LEU:HD11	1:144:A:PHE:H	20	0.49
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG3	17	0.49
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	6	0.49
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	10	0.49
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	19	0.49
(2,4351)	1:81:A:LEU:HD11	1:89:A:VAL:HG22	3	0.49
(2,4347)	1:38:A:THR:HG23	1:110:A:PHE:HZ	7	0.49
(2,4335)	1:77:A:LEU:HD23	1:141:A:LEU:HB3	5	0.49
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD21	10	0.49
(2,4325)	1:33:A:VAL:HG21	1:119:A:LYS:HG3	12	0.49
(2,4309)	1:86:A:LYS:HB2	1:86:A:LYS:HA	1	0.49
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	20	0.49
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	1	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	1	0.49
(2,4243)	1:34:A:SER:HB3	1:32:A:ASP:HB3	14	0.49
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	3	0.49
(2,4209)	1:61:A:LYS:HE2	1:62:A:LEU:HD12	18	0.49
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	2	0.49
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	20	0.49
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	5	0.49
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	18	0.49
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	1	0.49
(2,4141)	1:64:A:GLU:HG3	1:55:A:THR:H	14	0.49
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG22	5	0.49
(2,4118)	1:5:A:VAL:HG21	1:4:A:THR:HA	5	0.49
(2,4083)	1:126:A:ILE:HD11	1:74:A:PHE:HB3	19	0.49
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	20	0.49
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG22	6	0.49
(2,4015)	1:52:A:ARG:HG2	1:32:A:ASP:HB2	10	0.49
(2,4008)	1:159:A:ILE:HD11	1:139:A:ARG:HB2	16	0.49
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	4	0.49
(2,3977)	1:99:A:ARG:HB3	1:99:A:ARG:HG2	6	0.49
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	9	0.49
(2,3977)	1:99:A:ARG:HB3	1:99:A:ARG:HG2	10	0.49
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	15	0.49
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	18	0.49
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	19	0.49
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	20	0.49
(2,3943)	1:115:A:ILE:HD11	1:112:A:ASP:HB2	13	0.49
(2,3942)	1:115:A:ILE:HG23	1:119:A:LYS:HE2	18	0.49
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	2	0.49
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	12	0.49
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	4	0.49
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	6	0.49
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG22	16	0.49
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	9	0.49
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	11	0.49
(2,3845)	1:60:A:PHE:HB3	1:55:A:THR:HG23	17	0.49
(2,3844)	1:159:A:ILE:HG21	1:139:A:ARG:HA	12	0.49
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	11	0.49
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD12	7	0.49
(2,3795)	1:130:A:ALA:HB1	1:131:A:GLY:H	12	0.49
(2,3793)	1:130:A:ALA:HB2	1:126:A:ILE:HD13	7	0.49
(2,3772)	1:126:A:ILE:HG21	1:32:A:ASP:HA	9	0.49
(2,3771)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	19	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3768)	1:53:A:VAL:HG22	1:145:A:LEU:HB3	3	0.49
(2,3768)	1:53:A:VAL:HG23	1:145:A:LEU:HB3	19	0.49
(2,3764)	1:53:A:VAL:HG22	1:30:A:GLU:HG3	8	0.49
(2,3762)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	1	0.49
(2,3744)	1:87:A:VAL:HG23	1:82:A:GLU:HG3	6	0.49
(2,3726)	1:89:A:VAL:HG23	1:78:A:ARG:HA	13	0.49
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	17	0.49
(2,3658)	1:66:A:THR:HG21	1:52:A:ARG:HD2	14	0.49
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	3	0.49
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	5	0.49
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	13	0.49
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	14	0.49
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	15	0.49
(2,3640)	1:79:A:SER:HB3	1:82:A:GLU:HB2	2	0.49
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	20	0.49
(2,3616)	1:32:A:ASP:HB2	1:52:A:ARG:HG3	19	0.49
(2,3582)	1:12:A:ILE:HG13	1:11:A:LEU:H	15	0.49
(2,3450)	1:130:A:ALA:HB2	1:132:A:HIS:H	8	0.49
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD23	14	0.49
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD23	17	0.49
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD22	20	0.49
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	16	0.49
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD12	8	0.49
(2,3045)	1:14:A:LYS:H	1:14:A:LYS:HG3	11	0.49
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	9	0.49
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	11	0.49
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	18	0.49
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	1	0.49
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	6	0.49
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	14	0.49
(2,2913)	1:115:A:ILE:HD13	1:37:A:GLN:H	15	0.49
(2,2913)	1:115:A:ILE:HD11	1:37:A:GLN:H	17	0.49
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	4	0.49
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	15	0.49
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	18	0.49
(2,2747)	1:122:A:LEU:HD22	1:121:A:GLY:H	14	0.49
(2,2410)	1:109:A:ILE:HG22	1:114:A:PHE:HB2	17	0.49
(2,2410)	1:109:A:ILE:HG22	1:114:A:PHE:HB2	18	0.49
(2,2410)	1:109:A:ILE:HG21	1:114:A:PHE:HB2	20	0.49
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	13	0.49
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD23	10	0.49
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD21	18	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2307)	1:41:A:VAL:HG22	1:44:A:GLY:H	18	0.49
(2,2288)	1:162:A:ALA:HB2	1:161:A:HIS:HB2	19	0.49
(2,2263)	1:134:A:LEU:HD21	1:135:A:ALA:HA	20	0.49
(2,2258)	1:130:A:ALA:HB3	1:136:A:GLN:HE22	10	0.49
(2,2197)	1:126:A:ILE:HD12	1:77:A:LEU:HD12	3	0.49
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	1	0.49
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	4	0.49
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	5	0.49
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	8	0.49
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	9	0.49
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	12	0.49
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	17	0.49
(2,2107)	1:98:A:LEU:HD11	1:97:A:PHE:HZ	1	0.49
(2,2107)	1:98:A:LEU:HD11	1:97:A:PHE:HZ	19	0.49
(2,2014)	1:134:A:LEU:HD11	1:137:A:ASN:HD22	20	0.49
(2,2005)	1:51:A:ILE:HD11	1:69:A:ARG:HA	9	0.49
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	5	0.49
(2,1865)	1:98:A:LEU:HD12	1:94:A:GLY:HA3	10	0.49
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	3	0.49
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	5	0.49
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG21	16	0.49
(2,1612)	1:66:A:THR:HG21	1:50:A:GLU:HB3	3	0.49
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD13	4	0.49
(2,1587)	1:141:A:LEU:HB3	1:141:A:LEU:HD11	7	0.49
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	10	0.49
(2,1362)	1:135:A:ALA:HB2	1:132:A:HIS:HB2	10	0.49
(2,1362)	1:135:A:ALA:HB2	1:132:A:HIS:HB2	19	0.49
(2,1357)	1:51:A:ILE:HG21	1:34:A:SER:H	7	0.49
(2,1357)	1:51:A:ILE:HG21	1:34:A:SER:H	10	0.49
(2,1338)	1:59:A:ILE:HG22	1:58:A:PRO:HA	6	0.49
(2,1335)	1:59:A:ILE:HG22	1:57:A:LEU:H	2	0.49
(2,1335)	1:59:A:ILE:HG22	1:57:A:LEU:H	9	0.49
(2,1330)	1:115:A:ILE:HG22	1:37:A:GLN:H	9	0.49
(2,1330)	1:115:A:ILE:HG23	1:37:A:GLN:H	15	0.49
(2,1328)	1:115:A:ILE:HG22	1:114:A:PHE:HE2	11	0.49
(2,1245)	1:81:A:LEU:HD23	1:137:A:ASN:H	10	0.49
(2,1245)	1:81:A:LEU:HD21	1:137:A:ASN:H	14	0.49
(2,1244)	1:81:A:LEU:HD23	1:135:A:ALA:HB2	5	0.49
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG23	4	0.49
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG22	15	0.49
(2,1103)	1:57:A:LEU:HD22	1:27:A:ASN:HB3	17	0.49
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	7	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	6	0.49
(2,949)	1:10:A:ARG:HA	1:10:A:ARG:HB2	20	0.49
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG22	12	0.49
(2,809)	1:117:A:GLU:HA	1:117:A:GLU:HG3	12	0.49
(2,680)	1:55:A:THR:HG23	1:63:A:LYS:HB3	3	0.49
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	9	0.49
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	16	0.49
(2,541)	1:143:A:MET:HE1	1:144:A:PHE:HD2	15	0.49
(2,495)	1:126:A:ILE:HG21	1:31:A:ILE:HD13	12	0.49
(2,495)	1:126:A:ILE:HG23	1:31:A:ILE:HD11	19	0.49
(2,485)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	5	0.49
(2,423)	1:87:A:VAL:HG13	1:88:A:VAL:HG11	8	0.49
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG11	12	0.49
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG12	20	0.49
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	11	0.49
(2,361)	1:89:A:VAL:HG23	1:88:A:VAL:H	1	0.49
(2,257)	1:150:A:ILE:HD12	1:152:A:LYS:HE2	3	0.49
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG21	6	0.49
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	3	0.49
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	17	0.49
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG21	6	0.49
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG23	9	0.49
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG22	15	0.49
(2,4)	1:90:A:PRO:HD2	1:129:A:VAL:HG21	20	0.49
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	19	0.48
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	12	0.48
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	4	0.48
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	14	0.48
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	20	0.48
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	6	0.48
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	8	0.48
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	19	0.48
(2,4775)	1:11:A:LEU:HB3	1:11:A:LEU:H	20	0.48
(2,4767)	1:9:A:ARG:H	1:9:A:ARG:HD3	3	0.48
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	6	0.48
(2,4714)	1:101:A:LEU:HD22	1:101:A:LEU:H	6	0.48
(2,4714)	1:101:A:LEU:HD21	1:101:A:LEU:H	11	0.48
(2,4714)	1:101:A:LEU:HD21	1:101:A:LEU:H	15	0.48
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	10	0.48
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	10	0.48
(2,4704)	1:31:A:ILE:HD13	1:130:A:ALA:H	2	0.48
(2,4704)	1:31:A:ILE:HD13	1:130:A:ALA:H	12	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4704)	1:31:A:ILE:HD12	1:130:A:ALA:H	14	0.48
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	7	0.48
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	5	0.48
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	3	0.48
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	8	0.48
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	16	0.48
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	18	0.48
(2,4623)	1:134:A:LEU:HD23	1:88:A:VAL:H	2	0.48
(2,4606)	1:77:A:LEU:H	1:125:A:PHE:HE2	16	0.48
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	1	0.48
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	4	0.48
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	4	0.48
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	16	0.48
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	19	0.48
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	8	0.48
(2,4475)	1:141:A:LEU:HD12	1:77:A:LEU:HD11	17	0.48
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	9	0.48
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	12	0.48
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	12	0.48
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	6	0.48
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	13	0.48
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	3	0.48
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	16	0.48
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	10	0.48
(2,4341)	1:144:A:PHE:HA	1:148:A:GLU:HA	9	0.48
(2,4332)	1:141:A:LEU:HD11	1:132:A:HIS:HB3	1	0.48
(2,4309)	1:86:A:LYS:HB2	1:86:A:LYS:HA	6	0.48
(2,4309)	1:86:A:LYS:HB2	1:86:A:LYS:HA	12	0.48
(2,4260)	1:55:A:THR:HG23	1:63:A:LYS:HE3	4	0.48
(2,4260)	1:55:A:THR:HG22	1:63:A:LYS:HE3	20	0.48
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	17	0.48
(2,4209)	1:61:A:LYS:HE2	1:62:A:LEU:HD12	11	0.48
(2,4139)	1:137:A:ASN:HB3	1:141:A:LEU:HD23	15	0.48
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	13	0.48
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG21	10	0.48
(2,4102)	1:51:A:ILE:HG23	1:53:A:VAL:HB	3	0.48
(2,4093)	1:115:A:ILE:HG23	1:49:A:TYR:HD2	6	0.48
(2,4071)	1:81:A:LEU:HD11	1:141:A:LEU:H	7	0.48
(2,4023)	1:12:A:ILE:HD11	1:10:A:ARG:HD3	7	0.48
(2,3990)	1:26:A:SER:HB2	1:25:A:PRO:HB2	11	0.48
(2,3984)	1:104:A:ARG:HD2	1:104:A:ARG:HA	1	0.48
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	3	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	7	0.48
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	17	0.48
(2,3963)	1:109:A:ILE:HD12	1:107:A:ASP:HB3	20	0.48
(2,3947)	1:115:A:ILE:HG21	1:36:A:PRO:HG2	9	0.48
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	19	0.48
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	10	0.48
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	14	0.48
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	15	0.48
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	18	0.48
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	18	0.48
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	4	0.48
(2,3840)	1:55:A:THR:HG22	1:60:A:PHE:HE2	8	0.48
(2,3771)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	10	0.48
(2,3764)	1:53:A:VAL:HG23	1:30:A:GLU:HG3	10	0.48
(2,3764)	1:53:A:VAL:HG22	1:30:A:GLU:HG3	14	0.48
(2,3727)	1:89:A:VAL:HA	1:128:A:LYS:HB2	17	0.48
(2,3726)	1:89:A:VAL:HG21	1:78:A:ARG:HA	6	0.48
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	20	0.48
(2,3658)	1:66:A:THR:HG23	1:52:A:ARG:HD2	8	0.48
(2,3658)	1:66:A:THR:HG22	1:52:A:ARG:HD2	18	0.48
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	1	0.48
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	4	0.48
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	6	0.48
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	8	0.48
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	9	0.48
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	10	0.48
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	16	0.48
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	17	0.48
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	19	0.48
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	20	0.48
(2,3616)	1:32:A:ASP:HB2	1:52:A:ARG:HG3	16	0.48
(2,3616)	1:32:A:ASP:HB2	1:52:A:ARG:HG3	17	0.48
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	19	0.48
(2,3505)	1:39:A:VAL:HG12	1:37:A:GLN:HE22	11	0.48
(2,3450)	1:130:A:ALA:HB1	1:132:A:HIS:H	10	0.48
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG12	9	0.48
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	12	0.48
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	4	0.48
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	7	0.48
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	2	0.48
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	7	0.48
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	14	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD23	10	0.48
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	5	0.48
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	15	0.48
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	11	0.48
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	17	0.48
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	7	0.48
(2,2568)	1:108:A:GLY:H	1:107:A:ASP:HB3	11	0.48
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	11	0.48
(2,2423)	1:21:A:ALA:H	1:22:A:TYR:HD1	6	0.48
(2,2408)	1:115:A:ILE:HG22	1:116:A:GLU:HG2	17	0.48
(2,2315)	1:77:A:LEU:HD23	1:144:A:PHE:H	12	0.48
(2,2307)	1:41:A:VAL:HG23	1:44:A:GLY:H	12	0.48
(2,2288)	1:162:A:ALA:HB1	1:161:A:HIS:HB2	3	0.48
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD12	3	0.48
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	17	0.48
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	2	0.48
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	11	0.48
(2,2119)	1:24:A:PRO:HB2	1:24:A:PRO:HG3	19	0.48
(2,2107)	1:98:A:LEU:HD12	1:97:A:PHE:HZ	6	0.48
(2,2107)	1:98:A:LEU:HD12	1:97:A:PHE:HZ	10	0.48
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	17	0.48
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	4	0.48
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	17	0.48
(2,1810)	1:86:A:LYS:HG2	1:87:A:VAL:H	3	0.48
(2,1672)	1:31:A:ILE:HG22	1:127:A:ASN:H	8	0.48
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	11	0.48
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG23	12	0.48
(2,1520)	1:57:A:LEU:HD11	1:60:A:PHE:H	3	0.48
(2,1478)	1:15:A:PRO:HA	1:15:A:PRO:HB2	12	0.48
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB2	6	0.48
(2,1362)	1:135:A:ALA:HB3	1:132:A:HIS:HB2	5	0.48
(2,1362)	1:135:A:ALA:HB1	1:132:A:HIS:HB2	14	0.48
(2,1338)	1:59:A:ILE:HG21	1:58:A:PRO:HA	13	0.48
(2,1338)	1:59:A:ILE:HG22	1:58:A:PRO:HA	17	0.48
(2,1328)	1:115:A:ILE:HG21	1:114:A:PHE:HE2	17	0.48
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD23	12	0.48
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	9	0.48
(2,1147)	1:122:A:LEU:HD11	1:93:A:PRO:HB3	6	0.48
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	20	0.48
(2,1116)	1:149:A:ILE:HD11	1:148:A:GLU:HA	5	0.48
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD13	6	0.48
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD13	14	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	4	0.48
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	9	0.48
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	12	0.48
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	14	0.48
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	15	0.48
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	20	0.48
(2,949)	1:10:A:ARG:HA	1:10:A:ARG:HB2	8	0.48
(2,949)	1:10:A:ARG:HA	1:10:A:ARG:HB2	19	0.48
(2,917)	1:109:A:ILE:HG21	1:110:A:PHE:H	17	0.48
(2,877)	1:115:A:ILE:HG22	1:47:A:THR:HG23	8	0.48
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	12	0.48
(2,530)	1:143:A:MET:HE3	1:150:A:ILE:HA	17	0.48
(2,523)	1:122:A:LEU:HD12	1:125:A:PHE:HZ	14	0.48
(2,485)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	1	0.48
(2,485)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	2	0.48
(2,485)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	14	0.48
(2,423)	1:87:A:VAL:HG13	1:88:A:VAL:HG13	2	0.48
(2,423)	1:87:A:VAL:HG12	1:88:A:VAL:HG13	6	0.48
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG12	9	0.48
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG11	11	0.48
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG11	13	0.48
(2,423)	1:87:A:VAL:HG11	1:88:A:VAL:HG11	19	0.48
(2,361)	1:89:A:VAL:HG21	1:88:A:VAL:H	8	0.48
(2,361)	1:89:A:VAL:HG21	1:88:A:VAL:H	11	0.48
(2,361)	1:89:A:VAL:HG23	1:88:A:VAL:H	15	0.48
(2,361)	1:89:A:VAL:HG22	1:88:A:VAL:H	18	0.48
(2,312)	1:92:A:LEU:HD22	1:74:A:PHE:HA	1	0.48
(2,312)	1:92:A:LEU:HD21	1:74:A:PHE:HA	20	0.48
(2,306)	1:92:A:LEU:HD21	1:75:A:GLU:H	9	0.48
(2,243)	1:150:A:ILE:HD13	1:150:A:ILE:H	17	0.48
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE1	4	0.48
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	6	0.48
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	16	0.48
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	18	0.47
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	8	0.47
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	17	0.47
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	15	0.47
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	7	0.47
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD1	7	0.47
(2,4807)	1:57:A:LEU:H	1:59:A:ILE:H	18	0.47
(2,4787)	1:56:A:ASN:HD22	1:24:A:PRO:HG2	2	0.47
(2,4787)	1:56:A:ASN:HD22	1:24:A:PRO:HG2	3	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4787)	1:56:A:ASN:HD22	1:24:A:PRO:HG2	19	0.47
(2,4760)	1:5:A:VAL:HG22	1:4:A:THR:H	3	0.47
(2,4760)	1:5:A:VAL:HG13	1:4:A:THR:H	19	0.47
(2,4727)	1:33:A:VAL:HG22	1:50:A:GLU:H	2	0.47
(2,4714)	1:101:A:LEU:HD23	1:101:A:LEU:H	17	0.47
(2,4704)	1:31:A:ILE:HD13	1:130:A:ALA:H	10	0.47
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	14	0.47
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	14	0.47
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	9	0.47
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG22	10	0.47
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	11	0.47
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	17	0.47
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	15	0.47
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	12	0.47
(2,4536)	1:92:A:LEU:HD11	1:125:A:PHE:HE1	8	0.47
(2,4533)	1:88:A:VAL:HG21	1:90:A:PRO:HB2	20	0.47
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	20	0.47
(2,4516)	1:72:A:SER:HB2	1:75:A:GLU:H	14	0.47
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	19	0.47
(2,4473)	1:77:A:LEU:HD13	1:144:A:PHE:HB2	6	0.47
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	5	0.47
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	14	0.47
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	17	0.47
(2,4414)	1:12:A:ILE:HB	1:11:A:LEU:HA	1	0.47
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG3	4	0.47
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	11	0.47
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	2	0.47
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG23	6	0.47
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG21	19	0.47
(2,4350)	1:130:A:ALA:HB1	1:145:A:LEU:HD22	18	0.47
(2,4319)	1:115:A:ILE:HG23	1:118:A:ARG:HB3	5	0.47
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	1	0.47
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	17	0.47
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	19	0.47
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	13	0.47
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	16	0.47
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	2	0.47
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	12	0.47
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB3	6	0.47
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	3	0.47
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	3	0.47
(2,4197)	1:160:A:ARG:HD2	1:59:A:ILE:H	11	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG22	7	0.47
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG21	11	0.47
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	10	0.47
(2,3984)	1:104:A:ARG:HD3	1:104:A:ARG:HA	9	0.47
(2,3977)	1:99:A:ARG:HB3	1:99:A:ARG:HG2	5	0.47
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG21	11	0.47
(2,3940)	1:115:A:ILE:HD12	1:109:A:ILE:HA	3	0.47
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	10	0.47
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	16	0.47
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	7	0.47
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	19	0.47
(2,3885)	1:122:A:LEU:HD22	1:93:A:PRO:HG2	15	0.47
(2,3855)	1:121:A:GLY:HA3	1:120:A:GLN:HB2	8	0.47
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	3	0.47
(2,3844)	1:159:A:ILE:HG23	1:139:A:ARG:HA	1	0.47
(2,3844)	1:159:A:ILE:HG21	1:139:A:ARG:HA	4	0.47
(2,3844)	1:159:A:ILE:HG22	1:139:A:ARG:HA	9	0.47
(2,3840)	1:55:A:THR:HG22	1:60:A:PHE:HE2	3	0.47
(2,3840)	1:55:A:THR:HG22	1:60:A:PHE:HE2	7	0.47
(2,3840)	1:55:A:THR:HG22	1:60:A:PHE:HE2	19	0.47
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	3	0.47
(2,3793)	1:130:A:ALA:HB3	1:126:A:ILE:HD12	8	0.47
(2,3793)	1:130:A:ALA:HB2	1:126:A:ILE:HD12	12	0.47
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG23	17	0.47
(2,3771)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	1	0.47
(2,3771)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	5	0.47
(2,3771)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	14	0.47
(2,3768)	1:53:A:VAL:HG22	1:145:A:LEU:HB3	13	0.47
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	8	0.47
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	9	0.47
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	13	0.47
(2,3708)	1:92:A:LEU:HD12	1:78:A:ARG:H	12	0.47
(2,3706)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	10	0.47
(2,3702)	1:92:A:LEU:HD21	1:75:A:GLU:HG2	3	0.47
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD11	3	0.47
(2,3658)	1:66:A:THR:HG21	1:52:A:ARG:HD2	19	0.47
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	2	0.47
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	7	0.47
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	11	0.47
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	12	0.47
(2,3645)	1:125:A:PHE:HB3	1:125:A:PHE:HE2	18	0.47
(2,3322)	1:100:A:GLN:H	1:101:A:LEU:HD21	3	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3278)	1:66:A:THR:HG21	1:66:A:THR:H	16	0.47
(2,3278)	1:66:A:THR:HG22	1:66:A:THR:H	17	0.47
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	9	0.47
(2,3045)	1:14:A:LYS:H	1:14:A:LYS:HG3	16	0.47
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	13	0.47
(2,3041)	1:14:A:LYS:HB3	1:14:A:LYS:H	19	0.47
(2,2968)	1:1:A:THR:H	1:1:A:THR:HG21	12	0.47
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD23	16	0.47
(2,2940)	1:27:A:ASN:HB3	1:27:A:ASN:H	10	0.47
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	4	0.47
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	7	0.47
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	12	0.47
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	20	0.47
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	10	0.47
(2,2539)	1:86:A:LYS:HB3	1:87:A:VAL:H	4	0.47
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	18	0.47
(2,2470)	1:72:A:SER:H	1:75:A:GLU:HB3	2	0.47
(2,2410)	1:109:A:ILE:HG21	1:114:A:PHE:HB2	6	0.47
(2,2408)	1:115:A:ILE:HG22	1:116:A:GLU:HG2	14	0.47
(2,2312)	1:77:A:LEU:HD22	1:144:A:PHE:HZ	2	0.47
(2,2307)	1:41:A:VAL:HG22	1:44:A:GLY:H	16	0.47
(2,2307)	1:41:A:VAL:HG22	1:44:A:GLY:H	19	0.47
(2,2197)	1:126:A:ILE:HD12	1:77:A:LEU:HD13	9	0.47
(2,2107)	1:98:A:LEU:HD13	1:97:A:PHE:HZ	9	0.47
(2,2011)	1:134:A:LEU:HD11	1:88:A:VAL:H	6	0.47
(2,2011)	1:134:A:LEU:HD13	1:88:A:VAL:H	19	0.47
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	1	0.47
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	18	0.47
(2,1780)	1:14:A:LYS:HB3	1:15:A:PRO:HD3	1	0.47
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	15	0.47
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	11	0.47
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG21	17	0.47
(2,1611)	1:66:A:THR:HG21	1:50:A:GLU:HB2	12	0.47
(2,1381)	1:87:A:VAL:HG22	1:135:A:ALA:HB2	17	0.47
(2,1362)	1:135:A:ALA:HB3	1:132:A:HIS:HB2	15	0.47
(2,1362)	1:135:A:ALA:HB1	1:132:A:HIS:HB2	17	0.47
(2,1338)	1:59:A:ILE:HG23	1:58:A:PRO:HA	7	0.47
(2,1245)	1:81:A:LEU:HD23	1:137:A:ASN:H	5	0.47
(2,1245)	1:81:A:LEU:HD21	1:137:A:ASN:H	13	0.47
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD23	7	0.47
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD21	14	0.47
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG21	12	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	8	0.47
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	17	0.47
(2,1147)	1:122:A:LEU:HD13	1:93:A:PRO:HB3	20	0.47
(2,1116)	1:149:A:ILE:HD11	1:148:A:GLU:HA	2	0.47
(2,1116)	1:149:A:ILE:HD12	1:148:A:GLU:HA	4	0.47
(2,1093)	1:139:A:ARG:HG2	1:154:A:TYR:HE2	16	0.47
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD12	17	0.47
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	8	0.47
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	11	0.47
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	17	0.47
(2,949)	1:10:A:ARG:HA	1:10:A:ARG:HB2	11	0.47
(2,949)	1:10:A:ARG:HA	1:10:A:ARG:HB2	15	0.47
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG21	9	0.47
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	2	0.47
(2,753)	1:122:A:LEU:HD21	1:33:A:VAL:HG21	5	0.47
(2,628)	1:129:A:VAL:HG13	1:77:A:LEU:HD13	20	0.47
(2,539)	1:143:A:MET:HE1	1:154:A:TYR:H	5	0.47
(2,526)	1:122:A:LEU:HD12	1:75:A:GLU:H	15	0.47
(2,490)	1:126:A:ILE:HG22	1:127:A:ASN:HB3	5	0.47
(2,490)	1:126:A:ILE:HG23	1:127:A:ASN:HB3	19	0.47
(2,485)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	3	0.47
(2,485)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	8	0.47
(2,485)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	17	0.47
(2,479)	1:53:A:VAL:HG21	1:55:A:THR:HG22	17	0.47
(2,423)	1:87:A:VAL:HG13	1:88:A:VAL:HG11	7	0.47
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	19	0.47
(2,361)	1:89:A:VAL:HG23	1:88:A:VAL:H	4	0.47
(2,312)	1:92:A:LEU:HD22	1:74:A:PHE:HA	16	0.47
(2,312)	1:92:A:LEU:HD23	1:74:A:PHE:HA	18	0.47
(2,291)	1:92:A:LEU:HD23	1:93:A:PRO:HD3	11	0.47
(2,264)	1:150:A:ILE:HG21	1:150:A:ILE:HG13	9	0.47
(2,264)	1:150:A:ILE:HG23	1:150:A:ILE:HG13	20	0.47
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	13	0.47
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	15	0.47
(2,8)	1:131:A:GLY:HA3	1:136:A:GLN:HE21	11	0.47
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	3	0.46
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	13	0.46
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	15	0.46
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	11	0.46
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	4	0.46
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	5	0.46
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	17	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	6	0.46
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD1	20	0.46
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	11	0.46
(2,4787)	1:56:A:ASN:HD22	1:24:A:PRO:HG2	9	0.46
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG3	11	0.46
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG23	4	0.46
(2,4725)	1:50:A:GLU:H	1:37:A:GLN:HB2	5	0.46
(2,4714)	1:101:A:LEU:HD13	1:101:A:LEU:H	13	0.46
(2,4704)	1:31:A:ILE:HD12	1:130:A:ALA:H	5	0.46
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	12	0.46
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	13	0.46
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD11	8	0.46
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	16	0.46
(2,4678)	1:19:A:ASN:HD21	1:18:A:LEU:HB3	7	0.46
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG22	1	0.46
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	4	0.46
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	5	0.46
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	15	0.46
(2,4623)	1:134:A:LEU:HD23	1:88:A:VAL:H	10	0.46
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	2	0.46
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	11	0.46
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	15	0.46
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	13	0.46
(2,4556)	1:58:A:PRO:HD2	1:25:A:PRO:HD3	11	0.46
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	3	0.46
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD11	14	0.46
(2,4480)	1:92:A:LEU:HD12	1:76:A:TRP:H	20	0.46
(2,4437)	1:31:A:ILE:HG22	1:53:A:VAL:HG12	20	0.46
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	9	0.46
(2,4423)	1:33:A:VAL:HG21	1:122:A:LEU:HG	20	0.46
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG3	7	0.46
(2,4395)	1:54:A:LYS:HA	1:54:A:LYS:HD2	7	0.46
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD11	5	0.46
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD11	7	0.46
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	1	0.46
(2,4351)	1:81:A:LEU:HD11	1:89:A:VAL:HG23	9	0.46
(2,4335)	1:59:A:ILE:HG22	1:141:A:LEU:HB3	1	0.46
(2,4332)	1:141:A:LEU:HD13	1:132:A:HIS:HB3	15	0.46
(2,4308)	1:99:A:ARG:HD3	1:99:A:ARG:HA	11	0.46
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD2	11	0.46
(2,4204)	1:158:A:LYS:HD3	1:137:A:ASN:HD22	19	0.46
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	19	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4190)	1:77:A:LEU:HD23	1:80:A:GLU:HB2	6	0.46
(2,4183)	1:129:A:VAL:HG11	1:141:A:LEU:HD11	1	0.46
(2,4151)	1:57:A:LEU:HD23	1:131:A:GLY:HA3	18	0.46
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	9	0.46
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG21	15	0.46
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG23	17	0.46
(2,4122)	1:33:A:VAL:HG11	1:125:A:PHE:HD2	13	0.46
(2,4102)	1:51:A:ILE:HG22	1:53:A:VAL:HB	5	0.46
(2,4060)	1:160:A:ARG:HA	1:161:A:HIS:HD2	3	0.46
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG23	16	0.46
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	16	0.46
(2,4008)	1:159:A:ILE:HD11	1:139:A:ARG:HB3	15	0.46
(2,3990)	1:26:A:SER:HB2	1:25:A:PRO:HB2	14	0.46
(2,3990)	1:26:A:SER:HB2	1:25:A:PRO:HB2	19	0.46
(2,3977)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	14	0.46
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	11	0.46
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	1	0.46
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	1	0.46
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	12	0.46
(2,3844)	1:159:A:ILE:HG22	1:139:A:ARG:HA	3	0.46
(2,3844)	1:159:A:ILE:HG21	1:139:A:ARG:HA	20	0.46
(2,3842)	1:159:A:ILE:HG22	1:142:A:HIS:HA	9	0.46
(2,3840)	1:55:A:THR:HG22	1:60:A:PHE:HE2	4	0.46
(2,3840)	1:55:A:THR:HG23	1:60:A:PHE:HE2	14	0.46
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	18	0.46
(2,3793)	1:130:A:ALA:HB2	1:126:A:ILE:HD12	10	0.46
(2,3775)	1:126:A:ILE:HG23	1:31:A:ILE:HG23	2	0.46
(2,3771)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	2	0.46
(2,3771)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	3	0.46
(2,3771)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	8	0.46
(2,3771)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	17	0.46
(2,3762)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	4	0.46
(2,3747)	1:0:A:GLY:HA3	1:-1:A:VAL:HG22	6	0.46
(2,3726)	1:89:A:VAL:HG21	1:78:A:ARG:HA	9	0.46
(2,3660)	1:66:A:THR:HG23	1:52:A:ARG:HB2	12	0.46
(2,3640)	1:79:A:SER:HB3	1:82:A:GLU:HB2	4	0.46
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	5	0.46
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	11	0.46
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	20	0.46
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	3	0.46
(2,3616)	1:32:A:ASP:HB2	1:52:A:ARG:HG3	18	0.46
(2,3614)	1:32:A:ASP:HB3	1:123:A:GLU:HB3	16	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3278)	1:66:A:THR:HG21	1:66:A:THR:H	12	0.46
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG13	15	0.46
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	18	0.46
(2,3053)	1:16:A:GLN:HG3	1:16:A:GLN:H	2	0.46
(2,3024)	1:11:A:LEU:HD13	1:10:A:ARG:H	13	0.46
(2,2913)	1:115:A:ILE:HD13	1:37:A:GLN:H	19	0.46
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	7	0.46
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	8	0.46
(2,2730)	1:137:A:ASN:H	1:138:A:GLU:HG3	4	0.46
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD22	11	0.46
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	11	0.46
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD22	2	0.46
(2,2408)	1:115:A:ILE:HG23	1:116:A:GLU:HG2	9	0.46
(2,2408)	1:115:A:ILE:HG22	1:116:A:GLU:HG2	16	0.46
(2,2357)	1:85:A:SER:HB3	1:81:A:LEU:HD21	12	0.46
(2,2354)	1:59:A:ILE:HD13	1:60:A:PHE:HZ	9	0.46
(2,2338)	1:29:A:LEU:HD23	1:130:A:ALA:H	3	0.46
(2,2315)	1:77:A:LEU:HD22	1:144:A:PHE:H	13	0.46
(2,2315)	1:77:A:LEU:HD21	1:144:A:PHE:H	19	0.46
(2,2315)	1:77:A:LEU:HD22	1:144:A:PHE:H	20	0.46
(2,2307)	1:41:A:VAL:HG23	1:44:A:GLY:H	6	0.46
(2,2263)	1:134:A:LEU:HD23	1:135:A:ALA:HA	10	0.46
(2,2258)	1:130:A:ALA:HB1	1:136:A:GLN:HE22	15	0.46
(2,2210)	1:77:A:LEU:HD13	1:144:A:PHE:HD2	15	0.46
(2,1953)	1:145:A:LEU:HD22	1:141:A:LEU:HB3	5	0.46
(2,1919)	1:33:A:VAL:HG21	1:49:A:TYR:HB2	8	0.46
(2,1919)	1:33:A:VAL:HG21	1:49:A:TYR:HB2	13	0.46
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	13	0.46
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	18	0.46
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	16	0.46
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	17	0.46
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	18	0.46
(2,1670)	1:31:A:ILE:HG23	1:31:A:ILE:H	1	0.46
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	4	0.46
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	7	0.46
(2,1670)	1:31:A:ILE:HG23	1:31:A:ILE:H	20	0.46
(2,1612)	1:66:A:THR:HG22	1:50:A:GLU:HB3	2	0.46
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB3	1	0.46
(2,1381)	1:87:A:VAL:HG21	1:135:A:ALA:HB3	2	0.46
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB3	3	0.46
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB1	12	0.46
(2,1362)	1:135:A:ALA:HB2	1:132:A:HIS:HB2	20	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1335)	1:59:A:ILE:HG23	1:57:A:LEU:H	3	0.46
(2,1328)	1:115:A:ILE:HG23	1:114:A:PHE:HE2	2	0.46
(2,1318)	1:148:A:GLU:HB2	1:149:A:ILE:HG21	12	0.46
(2,1286)	1:51:A:ILE:HD11	1:144:A:PHE:HE1	5	0.46
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD23	1	0.46
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD21	9	0.46
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD21	13	0.46
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD21	16	0.46
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD21	20	0.46
(2,1178)	1:45:A:ARG:HG2	1:40:A:GLY:HA2	18	0.46
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	7	0.46
(2,1147)	1:122:A:LEU:HD13	1:93:A:PRO:HB3	15	0.46
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	15	0.46
(2,1057)	1:159:A:ILE:HD11	1:159:A:ILE:H	9	0.46
(2,1020)	1:148:A:GLU:HB3	1:67:A:VAL:HG11	20	0.46
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD12	2	0.46
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	2	0.46
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	3	0.46
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	4	0.46
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	6	0.46
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	13	0.46
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	16	0.46
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	17	0.46
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG22	19	0.46
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	1	0.46
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	3	0.46
(2,949)	1:10:A:ARG:HA	1:10:A:ARG:HB2	3	0.46
(2,949)	1:10:A:ARG:HA	1:10:A:ARG:HB2	13	0.46
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG21	18	0.46
(2,917)	1:109:A:ILE:HG22	1:110:A:PHE:H	2	0.46
(2,917)	1:109:A:ILE:HG21	1:110:A:PHE:H	10	0.46
(2,917)	1:109:A:ILE:HG21	1:110:A:PHE:H	14	0.46
(2,877)	1:115:A:ILE:HG23	1:47:A:THR:HG23	5	0.46
(2,863)	1:115:A:ILE:HD13	1:114:A:PHE:HB3	16	0.46
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	3	0.46
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	16	0.46
(2,680)	1:55:A:THR:HG22	1:63:A:LYS:HB3	9	0.46
(2,680)	1:55:A:THR:HG22	1:63:A:LYS:HB3	16	0.46
(2,618)	1:89:A:VAL:HG22	1:129:A:VAL:HG13	7	0.46
(2,618)	1:89:A:VAL:HG23	1:129:A:VAL:HG12	12	0.46
(2,548)	1:150:A:ILE:HG22	1:143:A:MET:HE3	18	0.46
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD11	3	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,490)	1:126:A:ILE:HG23	1:127:A:ASN:HB3	2	0.46
(2,490)	1:126:A:ILE:HG22	1:127:A:ASN:HB3	14	0.46
(2,485)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	9	0.46
(2,485)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	11	0.46
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG12	15	0.46
(2,361)	1:89:A:VAL:HG22	1:88:A:VAL:H	2	0.46
(2,361)	1:89:A:VAL:HG22	1:88:A:VAL:H	10	0.46
(2,361)	1:89:A:VAL:HG22	1:88:A:VAL:H	14	0.46
(2,361)	1:89:A:VAL:HG21	1:88:A:VAL:H	16	0.46
(2,312)	1:92:A:LEU:HD23	1:74:A:PHE:HA	19	0.46
(2,248)	1:150:A:ILE:HG23	1:144:A:PHE:HD2	6	0.46
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD1	10	0.46
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG23	11	0.46
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	9	0.46
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	17	0.46
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	20	0.46
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	4	0.45
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	2	0.45
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD12	3	0.45
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	9	0.45
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	12	0.45
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	6	0.45
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	13	0.45
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	8	0.45
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	11	0.45
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	13	0.45
(2,4787)	1:56:A:ASN:HD22	1:24:A:PRO:HG2	11	0.45
(2,4775)	1:11:A:LEU:HB3	1:11:A:LEU:H	5	0.45
(2,4727)	1:33:A:VAL:HG22	1:50:A:GLU:H	10	0.45
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	15	0.45
(2,4704)	1:31:A:ILE:HD11	1:130:A:ALA:H	1	0.45
(2,4704)	1:31:A:ILE:HD11	1:130:A:ALA:H	19	0.45
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD2	11	0.45
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	2	0.45
(2,4696)	1:45:A:ARG:H	1:46:A:PHE:HD1	5	0.45
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	1	0.45
(2,4680)	1:137:A:ASN:H	1:134:A:LEU:HB3	8	0.45
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	9	0.45
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	15	0.45
(2,4623)	1:134:A:LEU:HD21	1:88:A:VAL:H	17	0.45
(2,4544)	1:85:A:SER:HB3	1:86:A:LYS:HG3	7	0.45
(2,4533)	1:88:A:VAL:HG22	1:90:A:PRO:HB2	6	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4493)	1:29:A:LEU:HD22	1:130:A:ALA:HA	16	0.45
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	10	0.45
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	10	0.45
(2,4414)	1:11:A:LEU:HA	1:10:A:ARG:HB2	4	0.45
(2,4414)	1:11:A:LEU:HA	1:10:A:ARG:HB2	7	0.45
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	17	0.45
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	19	0.45
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	5	0.45
(2,4351)	1:81:A:LEU:HD11	1:89:A:VAL:HG23	5	0.45
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD21	20	0.45
(2,4325)	1:33:A:VAL:HG23	1:119:A:LYS:HG3	14	0.45
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	6	0.45
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	7	0.45
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	13	0.45
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	20	0.45
(2,4290)	1:54:A:LYS:HE2	1:64:A:GLU:HB2	13	0.45
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD2	10	0.45
(2,4272)	1:80:A:GLU:HA	1:77:A:LEU:HA	10	0.45
(2,4272)	1:80:A:GLU:HA	1:77:A:LEU:HA	15	0.45
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	4	0.45
(2,4209)	1:61:A:LYS:HE2	1:62:A:LEU:HD12	19	0.45
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	14	0.45
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	1	0.45
(2,4182)	1:141:A:LEU:HD11	1:143:A:MET:HG2	9	0.45
(2,4151)	1:57:A:LEU:HD23	1:131:A:GLY:HA3	15	0.45
(2,4151)	1:57:A:LEU:HD21	1:131:A:GLY:HA3	17	0.45
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD11	9	0.45
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG22	3	0.45
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG22	6	0.45
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG21	16	0.45
(2,4103)	1:51:A:ILE:HG23	1:60:A:PHE:HE2	16	0.45
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	2	0.45
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	5	0.45
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	9	0.45
(2,4030)	1:152:A:LYS:HD2	1:76:A:TRP:HD1	16	0.45
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	18	0.45
(2,4015)	1:43:A:ARG:HG2	1:106:A:ASP:HB2	16	0.45
(2,3985)	1:104:A:ARG:HG3	1:104:A:ARG:H	7	0.45
(2,3983)	1:104:A:ARG:HD3	1:104:A:ARG:HB3	7	0.45
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG22	8	0.45
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE1	10	0.45
(2,3943)	1:115:A:ILE:HD11	1:112:A:ASP:HB2	14	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	10	0.45
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	17	0.45
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	18	0.45
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	1	0.45
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	3	0.45
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	9	0.45
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	18	0.45
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	19	0.45
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	6	0.45
(2,3844)	1:159:A:ILE:HG23	1:139:A:ARG:HA	10	0.45
(2,3840)	1:55:A:THR:HG23	1:60:A:PHE:HE2	5	0.45
(2,3840)	1:55:A:THR:HG23	1:60:A:PHE:HE2	6	0.45
(2,3840)	1:55:A:THR:HG23	1:60:A:PHE:HE2	18	0.45
(2,3795)	1:130:A:ALA:HB1	1:131:A:GLY:H	14	0.45
(2,3793)	1:130:A:ALA:HB2	1:126:A:ILE:HD13	9	0.45
(2,3793)	1:130:A:ALA:HB1	1:126:A:ILE:HD13	19	0.45
(2,3772)	1:126:A:ILE:HG21	1:32:A:ASP:HA	1	0.45
(2,3772)	1:126:A:ILE:HG23	1:32:A:ASP:HA	8	0.45
(2,3771)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	9	0.45
(2,3762)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	20	0.45
(2,3745)	1:87:A:VAL:HG23	1:138:A:GLU:HB2	17	0.45
(2,3744)	1:87:A:VAL:HG23	1:84:A:GLU:HB2	2	0.45
(2,3726)	1:89:A:VAL:HG21	1:78:A:ARG:HA	10	0.45
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	18	0.45
(2,3688)	1:150:A:ILE:HD13	1:73:A:ASP:H	4	0.45
(2,3660)	1:66:A:THR:HG23	1:52:A:ARG:HB2	16	0.45
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	6	0.45
(2,3289)	1:150:A:ILE:HD13	1:73:A:ASP:H	19	0.45
(2,3056)	1:16:A:GLN:H	1:16:A:GLN:HE22	15	0.45
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD22	2	0.45
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	10	0.45
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	16	0.45
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	7	0.45
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG22	4	0.45
(2,2568)	1:108:A:GLY:H	1:107:A:ASP:HB3	9	0.45
(2,2568)	1:108:A:GLY:H	1:107:A:ASP:HB3	19	0.45
(2,2408)	1:115:A:ILE:HG23	1:116:A:GLU:HG2	4	0.45
(2,2408)	1:115:A:ILE:HG21	1:116:A:GLU:HG2	5	0.45
(2,2338)	1:29:A:LEU:HD21	1:130:A:ALA:H	2	0.45
(2,2315)	1:77:A:LEU:HD21	1:144:A:PHE:H	11	0.45
(2,2315)	1:77:A:LEU:HD23	1:144:A:PHE:H	15	0.45
(2,2312)	1:77:A:LEU:HD21	1:144:A:PHE:HZ	19	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2298)	1:18:A:LEU:HD22	1:17:A:ASN:H	5	0.45
(2,2263)	1:134:A:LEU:HD21	1:135:A:ALA:HA	11	0.45
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD12	19	0.45
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG22	1	0.45
(2,2131)	1:29:A:LEU:HD21	1:136:A:GLN:HE21	16	0.45
(2,2017)	1:134:A:LEU:HD12	1:137:A:ASN:HB2	4	0.45
(2,2011)	1:134:A:LEU:HD11	1:88:A:VAL:H	5	0.45
(2,2011)	1:134:A:LEU:HD13	1:88:A:VAL:H	18	0.45
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	12	0.45
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	14	0.45
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	15	0.45
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	16	0.45
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	4	0.45
(2,1679)	1:126:A:ILE:HG23	1:31:A:ILE:HG22	7	0.45
(2,1670)	1:31:A:ILE:HG21	1:31:A:ILE:H	8	0.45
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	11	0.45
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG23	12	0.45
(2,1612)	1:66:A:THR:HG21	1:50:A:GLU:HB3	5	0.45
(2,1611)	1:66:A:THR:HG21	1:50:A:GLU:HB2	16	0.45
(2,1525)	1:57:A:LEU:HD13	1:29:A:LEU:HA	6	0.45
(2,1401)	1:39:A:VAL:HG21	1:46:A:PHE:HE2	6	0.45
(2,1381)	1:87:A:VAL:HG22	1:135:A:ALA:HB1	7	0.45
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB2	13	0.45
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB2	14	0.45
(2,1376)	1:96:A:ALA:HB3	1:97:A:PHE:HZ	4	0.45
(2,1362)	1:135:A:ALA:HB2	1:132:A:HIS:HB2	4	0.45
(2,1362)	1:135:A:ALA:HB1	1:132:A:HIS:HB2	6	0.45
(2,1362)	1:135:A:ALA:HB3	1:132:A:HIS:HB2	16	0.45
(2,1338)	1:59:A:ILE:HG22	1:58:A:PRO:HA	16	0.45
(2,1338)	1:59:A:ILE:HG22	1:58:A:PRO:HA	20	0.45
(2,1336)	1:59:A:ILE:HG23	1:61:A:LYS:H	10	0.45
(2,1335)	1:59:A:ILE:HG21	1:57:A:LEU:H	11	0.45
(2,1286)	1:51:A:ILE:HD13	1:144:A:PHE:HE1	3	0.45
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD23	2	0.45
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD22	17	0.45
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	18	0.45
(2,1147)	1:122:A:LEU:HD13	1:93:A:PRO:HB3	4	0.45
(2,1147)	1:122:A:LEU:HD11	1:93:A:PRO:HB3	17	0.45
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD11	18	0.45
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD13	8	0.45
(2,1063)	1:159:A:ILE:HD11	1:142:A:HIS:HB3	15	0.45
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	1	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	5	0.45
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	8	0.45
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	11	0.45
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	14	0.45
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	15	0.45
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	20	0.45
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG21	11	0.45
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG21	4	0.45
(2,917)	1:109:A:ILE:HG21	1:110:A:PHE:H	11	0.45
(2,863)	1:115:A:ILE:HD11	1:114:A:PHE:HB3	19	0.45
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	15	0.45
(2,680)	1:55:A:THR:HG23	1:63:A:LYS:HB3	7	0.45
(2,680)	1:55:A:THR:HG23	1:63:A:LYS:HB3	11	0.45
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	11	0.45
(2,628)	1:129:A:VAL:HG11	1:77:A:LEU:HD11	2	0.45
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD11	1	0.45
(2,490)	1:126:A:ILE:HG22	1:127:A:ASN:HB3	1	0.45
(2,490)	1:126:A:ILE:HG22	1:127:A:ASN:HB3	3	0.45
(2,490)	1:126:A:ILE:HG23	1:127:A:ASN:HB3	11	0.45
(2,490)	1:126:A:ILE:HG23	1:127:A:ASN:HB3	13	0.45
(2,485)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	13	0.45
(2,485)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	15	0.45
(2,485)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	16	0.45
(2,479)	1:53:A:VAL:HG23	1:55:A:THR:HG22	14	0.45
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	10	0.45
(2,264)	1:150:A:ILE:HG22	1:150:A:ILE:HG13	16	0.45
(2,248)	1:150:A:ILE:HG22	1:144:A:PHE:HD2	16	0.45
(2,247)	1:150:A:ILE:HG22	1:76:A:TRP:HZ2	9	0.45
(2,151)	1:66:A:THR:HG22	1:50:A:GLU:H	2	0.45
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	5	0.45
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	13	0.45
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	14	0.44
(2,4899)	1:124:A:GLN:HE22	1:123:A:GLU:HA	5	0.44
(2,4885)	1:120:A:GLN:HE21	1:117:A:GLU:HG3	14	0.44
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	17	0.44
(2,4852)	1:97:A:PHE:HB3	1:96:A:ALA:H	20	0.44
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	12	0.44
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	15	0.44
(2,4787)	1:56:A:ASN:HD22	1:24:A:PRO:HG2	7	0.44
(2,4775)	1:11:A:LEU:HB2	1:11:A:LEU:H	8	0.44
(2,4775)	1:11:A:LEU:H	1:10:A:ARG:HG2	16	0.44
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG2	7	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4744)	1:55:A:THR:HG22	1:62:A:LEU:H	9	0.44
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	17	0.44
(2,4725)	1:50:A:GLU:H	1:36:A:PRO:HB3	7	0.44
(2,4722)	1:161:A:HIS:HA	1:160:A:ARG:H	6	0.44
(2,4722)	1:161:A:HIS:HA	1:160:A:ARG:H	7	0.44
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	12	0.44
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	16	0.44
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	5	0.44
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	13	0.44
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	14	0.44
(2,4704)	1:31:A:ILE:HD12	1:130:A:ALA:H	20	0.44
(2,4696)	1:45:A:ARG:H	1:46:A:PHE:HD1	20	0.44
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG3	11	0.44
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	14	0.44
(2,4678)	1:19:A:ASN:HD21	1:18:A:LEU:HB3	2	0.44
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	2	0.44
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	9	0.44
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	5	0.44
(2,4516)	1:72:A:SER:HB2	1:75:A:GLU:H	15	0.44
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	17	0.44
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD13	9	0.44
(2,4418)	1:77:A:LEU:HD13	1:144:A:PHE:H	1	0.44
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	4	0.44
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	20	0.44
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG22	7	0.44
(2,4347)	1:38:A:THR:HG23	1:110:A:PHE:HZ	6	0.44
(2,4343)	1:145:A:LEU:HB3	1:146:A:GLN:HG3	14	0.44
(2,4325)	1:33:A:VAL:HG21	1:119:A:LYS:HG3	9	0.44
(2,4309)	1:10:A:ARG:HB3	1:10:A:ARG:HA	9	0.44
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	15	0.44
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	20	0.44
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG22	20	0.44
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	3	0.44
(2,4186)	1:77:A:LEU:HD21	1:140:A:CYS:HB3	17	0.44
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	11	0.44
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG23	4	0.44
(2,4043)	1:45:A:ARG:HD2	1:110:A:PHE:HD2	7	0.44
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	9	0.44
(2,4023)	1:12:A:ILE:HD12	1:10:A:ARG:HD2	11	0.44
(2,4023)	1:12:A:ILE:HD12	1:10:A:ARG:HD3	15	0.44
(2,3990)	1:26:A:SER:HB2	1:25:A:PRO:HB2	20	0.44
(2,3985)	1:104:A:ARG:HG3	1:104:A:ARG:H	19	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3953)	1:111:A:ASP:HB3	1:108:A:GLY:HA2	10	0.44
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	1	0.44
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	5	0.44
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	6	0.44
(2,3913)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	14	0.44
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	2	0.44
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	5	0.44
(2,3877)	1:123:A:GLU:HB3	1:127:A:ASN:HD22	7	0.44
(2,3844)	1:159:A:ILE:HG21	1:139:A:ARG:HA	6	0.44
(2,3840)	1:55:A:THR:HG23	1:60:A:PHE:HE2	12	0.44
(2,3840)	1:55:A:THR:HG21	1:60:A:PHE:HE2	20	0.44
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG23	9	0.44
(2,3772)	1:126:A:ILE:HG21	1:32:A:ASP:HA	3	0.44
(2,3771)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	11	0.44
(2,3771)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	13	0.44
(2,3771)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	15	0.44
(2,3771)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	16	0.44
(2,3768)	1:53:A:VAL:HG21	1:145:A:LEU:HB3	11	0.44
(2,3762)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	7	0.44
(2,3762)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	11	0.44
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	10	0.44
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	19	0.44
(2,3708)	1:92:A:LEU:HD11	1:78:A:ARG:H	19	0.44
(2,3691)	1:150:A:ILE:HD11	1:143:A:MET:HB2	19	0.44
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	7	0.44
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	12	0.44
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	15	0.44
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	18	0.44
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	3	0.44
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	5	0.44
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG23	12	0.44
(2,3505)	1:39:A:VAL:HG13	1:37:A:GLN:HE22	18	0.44
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	10	0.44
(2,3278)	1:66:A:THR:HG22	1:66:A:THR:H	7	0.44
(2,3278)	1:66:A:THR:HG21	1:66:A:THR:H	18	0.44
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD12	14	0.44
(2,3045)	1:14:A:LYS:H	1:14:A:LYS:HG3	20	0.44
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	11	0.44
(2,2913)	1:115:A:ILE:HD12	1:37:A:GLN:H	11	0.44
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	14	0.44
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG21	20	0.44
(2,2691)	1:37:A:GLN:HE22	1:37:A:GLN:HB3	9	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD1	15	0.44
(2,2568)	1:108:A:GLY:H	1:107:A:ASP:HB3	6	0.44
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD21	20	0.44
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	11	0.44
(2,2470)	1:72:A:SER:H	1:75:A:GLU:HB3	12	0.44
(2,2410)	1:109:A:ILE:HG22	1:114:A:PHE:HB2	10	0.44
(2,2408)	1:115:A:ILE:HG21	1:116:A:GLU:HG2	6	0.44
(2,2408)	1:115:A:ILE:HG22	1:116:A:GLU:HG2	12	0.44
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	5	0.44
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	8	0.44
(2,2358)	1:85:A:SER:HB2	1:81:A:LEU:HD21	20	0.44
(2,2315)	1:77:A:LEU:HD21	1:144:A:PHE:H	5	0.44
(2,2312)	1:77:A:LEU:HD23	1:144:A:PHE:HZ	12	0.44
(2,2307)	1:41:A:VAL:HG23	1:44:A:GLY:H	4	0.44
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG21	17	0.44
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG21	2	0.44
(2,2197)	1:126:A:ILE:HD13	1:77:A:LEU:HD13	15	0.44
(2,2107)	1:98:A:LEU:HD11	1:97:A:PHE:HZ	13	0.44
(2,2107)	1:98:A:LEU:HD12	1:97:A:PHE:HZ	18	0.44
(2,2094)	1:98:A:LEU:HD21	1:97:A:PHE:HZ	11	0.44
(2,2011)	1:134:A:LEU:HD11	1:88:A:VAL:H	13	0.44
(2,2011)	1:134:A:LEU:HD12	1:88:A:VAL:H	16	0.44
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	5	0.44
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	7	0.44
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	20	0.44
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	2	0.44
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	1	0.44
(2,1702)	1:36:A:PRO:HD3	1:36:A:PRO:HB3	15	0.44
(2,1679)	1:126:A:ILE:HG22	1:31:A:ILE:HG21	6	0.44
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	2	0.44
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	9	0.44
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	17	0.44
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	18	0.44
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG22	4	0.44
(2,1612)	1:66:A:THR:HG21	1:50:A:GLU:HB3	16	0.44
(2,1525)	1:57:A:LEU:HD11	1:29:A:LEU:HA	18	0.44
(2,1381)	1:87:A:VAL:HG21	1:135:A:ALA:HB3	10	0.44
(2,1381)	1:87:A:VAL:HG21	1:135:A:ALA:HB1	16	0.44
(2,1381)	1:87:A:VAL:HG22	1:135:A:ALA:HB1	18	0.44
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB3	19	0.44
(2,1357)	1:51:A:ILE:HG22	1:34:A:SER:H	8	0.44
(2,1338)	1:59:A:ILE:HG21	1:58:A:PRO:HA	12	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1335)	1:59:A:ILE:HG21	1:57:A:LEU:H	6	0.44
(2,1335)	1:59:A:ILE:HG22	1:57:A:LEU:H	8	0.44
(2,1312)	1:149:A:ILE:HG23	1:151:A:ASP:H	16	0.44
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD21	8	0.44
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD21	10	0.44
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD22	11	0.44
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD23	18	0.44
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG22	13	0.44
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	6	0.44
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD12	4	0.44
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD12	11	0.44
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD12	4	0.44
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	4	0.44
(2,1063)	1:159:A:ILE:HD12	1:142:A:HIS:HB3	10	0.44
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	10	0.44
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	19	0.44
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	5	0.44
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	16	0.44
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	18	0.44
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG23	16	0.44
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG21	17	0.44
(2,917)	1:109:A:ILE:HG23	1:110:A:PHE:H	6	0.44
(2,863)	1:115:A:ILE:HD11	1:114:A:PHE:HB3	14	0.44
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	1	0.44
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	6	0.44
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	13	0.44
(2,680)	1:55:A:THR:HG23	1:63:A:LYS:HB3	8	0.44
(2,680)	1:55:A:THR:HG22	1:63:A:LYS:HB3	13	0.44
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	20	0.44
(2,618)	1:89:A:VAL:HG21	1:129:A:VAL:HG11	17	0.44
(2,539)	1:143:A:MET:HE2	1:154:A:TYR:H	6	0.44
(2,508)	1:39:A:VAL:HG12	1:39:A:VAL:HG21	1	0.44
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG23	4	0.44
(2,490)	1:126:A:ILE:HG21	1:127:A:ASN:HB3	8	0.44
(2,490)	1:126:A:ILE:HG22	1:127:A:ASN:HB3	15	0.44
(2,490)	1:126:A:ILE:HG21	1:127:A:ASN:HB3	18	0.44
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	4	0.44
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG11	8	0.44
(2,312)	1:92:A:LEU:HD21	1:74:A:PHE:HA	12	0.44
(2,247)	1:150:A:ILE:HG22	1:76:A:TRP:HZ2	15	0.44
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE2	20	0.44
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	5	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	8	0.43
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	1	0.43
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	9	0.43
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	4	0.43
(2,4725)	1:50:A:GLU:H	1:37:A:GLN:HB2	6	0.43
(2,4716)	1:105:A:GLY:H	1:110:A:PHE:HB2	4	0.43
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	15	0.43
(2,4704)	1:31:A:ILE:HD13	1:130:A:ALA:H	11	0.43
(2,4704)	1:31:A:ILE:HD12	1:130:A:ALA:H	13	0.43
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	5	0.43
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG3	9	0.43
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	8	0.43
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	9	0.43
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	19	0.43
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	10	0.43
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD21	18	0.43
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	19	0.43
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	7	0.43
(2,4515)	1:15:A:PRO:HD3	1:14:A:LYS:HD2	10	0.43
(2,4498)	1:137:A:ASN:HB2	1:136:A:GLN:HB3	13	0.43
(2,4480)	1:92:A:LEU:HD12	1:76:A:TRP:H	6	0.43
(2,4468)	1:77:A:LEU:HD12	1:141:A:LEU:HG	7	0.43
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	20	0.43
(2,4414)	1:11:A:LEU:HA	1:10:A:ARG:HB2	17	0.43
(2,4398)	1:62:A:LEU:HD12	1:61:A:LYS:HD2	14	0.43
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	9	0.43
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG21	4	0.43
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	10	0.43
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	9	0.43
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	4	0.43
(2,4240)	1:31:A:ILE:HG23	1:52:A:ARG:HB2	3	0.43
(2,4240)	1:31:A:ILE:HG23	1:52:A:ARG:HB2	6	0.43
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG21	9	0.43
(2,4239)	1:51:A:ILE:HB	1:31:A:ILE:HG23	15	0.43
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	7	0.43
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	9	0.43
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG22	6	0.43
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB3	9	0.43
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	20	0.43
(2,4202)	1:159:A:ILE:HG21	1:160:A:ARG:HD3	19	0.43
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	15	0.43
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	2	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	4	0.43
(2,4141)	1:64:A:GLU:HG2	1:55:A:THR:H	4	0.43
(2,4141)	1:64:A:GLU:HG2	1:55:A:THR:H	11	0.43
(2,4094)	1:115:A:ILE:HG22	1:119:A:LYS:H	14	0.43
(2,4071)	1:81:A:LEU:HD13	1:141:A:LEU:H	3	0.43
(2,4060)	1:160:A:ARG:HA	1:161:A:HIS:HD2	6	0.43
(2,4060)	1:160:A:ARG:HA	1:161:A:HIS:HD2	15	0.43
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	17	0.43
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	18	0.43
(2,4040)	1:45:A:ARG:HD3	1:38:A:THR:HG22	10	0.43
(2,3990)	1:26:A:SER:HB2	1:25:A:PRO:HB2	7	0.43
(2,3985)	1:104:A:ARG:HG3	1:104:A:ARG:H	14	0.43
(2,3984)	1:104:A:ARG:HD3	1:104:A:ARG:HA	8	0.43
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	15	0.43
(2,3947)	1:115:A:ILE:HG22	1:36:A:PRO:HG2	7	0.43
(2,3947)	1:115:A:ILE:HG21	1:36:A:PRO:HG2	8	0.43
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	13	0.43
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	4	0.43
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	5	0.43
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	8	0.43
(2,3840)	1:55:A:THR:HG21	1:60:A:PHE:HE2	1	0.43
(2,3840)	1:55:A:THR:HG21	1:60:A:PHE:HE2	15	0.43
(2,3840)	1:55:A:THR:HG21	1:60:A:PHE:HE2	16	0.43
(2,3840)	1:55:A:THR:HG23	1:60:A:PHE:HE2	17	0.43
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	9	0.43
(2,3807)	1:129:A:VAL:HB	1:141:A:LEU:HD13	6	0.43
(2,3775)	1:126:A:ILE:HG21	1:31:A:ILE:HG23	18	0.43
(2,3759)	1:53:A:VAL:HG21	1:30:A:GLU:H	17	0.43
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	1	0.43
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	12	0.43
(2,3706)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	20	0.43
(2,3658)	1:66:A:THR:HG21	1:52:A:ARG:HD2	10	0.43
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	14	0.43
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	4	0.43
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	12	0.43
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	16	0.43
(2,3616)	1:32:A:ASP:HB2	1:52:A:ARG:HG3	12	0.43
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB3	20	0.43
(2,3566)	1:1:A:THR:H	1:2:A:ALA:HB1	11	0.43
(2,3278)	1:66:A:THR:HG21	1:66:A:THR:H	3	0.43
(2,3278)	1:66:A:THR:HG21	1:66:A:THR:H	9	0.43
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD12	17	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	15	0.43
(2,3024)	1:11:A:LEU:HD11	1:10:A:ARG:H	1	0.43
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG22	17	0.43
(2,2727)	1:19:A:ASN:HD21	1:18:A:LEU:HD13	5	0.43
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	17	0.43
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	12	0.43
(2,2410)	1:109:A:ILE:HG21	1:114:A:PHE:HB2	5	0.43
(2,2408)	1:115:A:ILE:HG23	1:116:A:GLU:HG2	11	0.43
(2,2408)	1:115:A:ILE:HG22	1:116:A:GLU:HG2	13	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	1	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	2	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	3	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	6	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	7	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	9	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	10	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	11	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	12	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	13	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	14	0.43
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	20	0.43
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	7	0.43
(2,2346)	1:88:A:VAL:HG11	1:90:A:PRO:HD2	20	0.43
(2,2312)	1:77:A:LEU:HD23	1:144:A:PHE:HZ	1	0.43
(2,2263)	1:134:A:LEU:HD22	1:135:A:ALA:HA	14	0.43
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD11	17	0.43
(2,2231)	1:81:A:LEU:HD11	1:89:A:VAL:HG22	3	0.43
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	7	0.43
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	8	0.43
(2,2131)	1:29:A:LEU:HD21	1:136:A:GLN:HE21	8	0.43
(2,2011)	1:134:A:LEU:HD11	1:88:A:VAL:H	3	0.43
(2,2011)	1:134:A:LEU:HD12	1:88:A:VAL:H	15	0.43
(2,1965)	1:149:A:ILE:HD12	1:150:A:ILE:HA	9	0.43
(2,1934)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	13	0.43
(2,1915)	1:134:A:LEU:HD22	1:86:A:LYS:HB3	18	0.43
(2,1865)	1:98:A:LEU:HD12	1:94:A:GLY:HA3	20	0.43
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	10	0.43
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	16	0.43
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	15	0.43
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	13	0.43
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	5	0.43
(2,1670)	1:31:A:ILE:HG21	1:31:A:ILE:H	6	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	8	0.43
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG23	10	0.43
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	13	0.43
(2,1525)	1:57:A:LEU:HD12	1:29:A:LEU:HA	7	0.43
(2,1525)	1:57:A:LEU:HD13	1:29:A:LEU:HA	12	0.43
(2,1525)	1:57:A:LEU:HD11	1:29:A:LEU:HA	17	0.43
(2,1520)	1:57:A:LEU:HD13	1:60:A:PHE:H	9	0.43
(2,1386)	1:135:A:ALA:HB3	1:130:A:ALA:H	15	0.43
(2,1380)	1:135:A:ALA:HB1	1:141:A:LEU:HD23	20	0.43
(2,1376)	1:96:A:ALA:HB2	1:97:A:PHE:HZ	2	0.43
(2,1362)	1:135:A:ALA:HB1	1:132:A:HIS:HB2	13	0.43
(2,1357)	1:51:A:ILE:HG23	1:34:A:SER:H	4	0.43
(2,1336)	1:59:A:ILE:HG23	1:61:A:LYS:H	1	0.43
(2,1286)	1:51:A:ILE:HD13	1:144:A:PHE:HE1	14	0.43
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD21	3	0.43
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD21	5	0.43
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD22	6	0.43
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD23	19	0.43
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	4	0.43
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	16	0.43
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD12	3	0.43
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD11	17	0.43
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	20	0.43
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	3	0.43
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD12	8	0.43
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD13	15	0.43
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	9	0.43
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	12	0.43
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	2	0.43
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	10	0.43
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	19	0.43
(2,917)	1:109:A:ILE:HG22	1:110:A:PHE:H	1	0.43
(2,917)	1:109:A:ILE:HG23	1:110:A:PHE:H	5	0.43
(2,917)	1:109:A:ILE:HG21	1:110:A:PHE:H	18	0.43
(2,755)	1:122:A:LEU:HD22	1:122:A:LEU:HA	15	0.43
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	14	0.43
(2,618)	1:89:A:VAL:HG23	1:129:A:VAL:HG13	9	0.43
(2,526)	1:122:A:LEU:HD13	1:75:A:GLU:H	14	0.43
(2,490)	1:126:A:ILE:HG22	1:127:A:ASN:HB3	10	0.43
(2,490)	1:126:A:ILE:HG22	1:127:A:ASN:HB3	17	0.43
(2,485)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	18	0.43
(2,461)	1:48:A:THR:HG23	1:68:A:ARG:HG2	19	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	18	0.43
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	20	0.43
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG13	1	0.43
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG11	10	0.43
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG12	12	0.43
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG12	14	0.43
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG13	18	0.43
(2,312)	1:92:A:LEU:HD21	1:74:A:PHE:HA	7	0.43
(2,306)	1:92:A:LEU:HD22	1:75:A:GLU:H	3	0.43
(2,257)	1:150:A:ILE:HD11	1:152:A:LYS:HE2	10	0.43
(2,247)	1:150:A:ILE:HG21	1:76:A:TRP:HZ2	20	0.43
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	1	0.43
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	11	0.43
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	16	0.42
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	20	0.42
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD11	11	0.42
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	10	0.42
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	11	0.42
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	14	0.42
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	15	0.42
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	4	0.42
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	11	0.42
(2,4801)	1:31:A:ILE:HG23	1:31:A:ILE:H	20	0.42
(2,4777)	1:11:A:LEU:HD11	1:12:A:ILE:H	8	0.42
(2,4727)	1:33:A:VAL:HG23	1:50:A:GLU:H	17	0.42
(2,4726)	1:50:A:GLU:H	1:68:A:ARG:HG3	8	0.42
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG22	3	0.42
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG21	7	0.42
(2,4701)	1:44:A:GLY:H	1:110:A:PHE:HE1	8	0.42
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	1	0.42
(2,4696)	1:45:A:ARG:H	1:46:A:PHE:HD1	10	0.42
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	1	0.42
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	6	0.42
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	7	0.42
(2,4644)	1:66:A:THR:H	1:62:A:LEU:HB2	13	0.42
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	7	0.42
(2,4623)	1:134:A:LEU:HD23	1:88:A:VAL:H	7	0.42
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	14	0.42
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	19	0.42
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	7	0.42
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	17	0.42
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	18	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	17	0.42
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	14	0.42
(2,4533)	1:88:A:VAL:HG22	1:90:A:PRO:HB2	10	0.42
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	12	0.42
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD12	8	0.42
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD13	10	0.42
(2,4480)	1:92:A:LEU:HD13	1:76:A:TRP:H	7	0.42
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG12	7	0.42
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	5	0.42
(2,4414)	1:11:A:LEU:HA	1:10:A:ARG:HB2	15	0.42
(2,4414)	1:11:A:LEU:HA	1:10:A:ARG:HB2	18	0.42
(2,4413)	1:99:A:ARG:HB2	1:99:A:ARG:HG2	20	0.42
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	5	0.42
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	8	0.42
(2,4351)	1:81:A:LEU:HD13	1:89:A:VAL:HG23	12	0.42
(2,4319)	1:115:A:ILE:HG21	1:118:A:ARG:HB3	17	0.42
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	4	0.42
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD3	3	0.42
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	14	0.42
(2,4265)	1:68:A:ARG:HD3	1:68:A:ARG:H	2	0.42
(2,4209)	1:61:A:LYS:HE2	1:62:A:LEU:HD11	15	0.42
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	19	0.42
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	7	0.42
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	14	0.42
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	17	0.42
(2,4084)	1:51:A:ILE:HD11	1:34:A:SER:H	20	0.42
(2,4030)	1:152:A:LYS:HD2	1:76:A:TRP:HD1	20	0.42
(2,3984)	1:104:A:ARG:HD3	1:104:A:ARG:HA	3	0.42
(2,3984)	1:104:A:ARG:HD2	1:104:A:ARG:HA	13	0.42
(2,3963)	1:109:A:ILE:HD11	1:107:A:ASP:HB3	12	0.42
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG23	13	0.42
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	13	0.42
(2,3930)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	10	0.42
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	3	0.42
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	4	0.42
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	7	0.42
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	15	0.42
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	16	0.42
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	1	0.42
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	15	0.42
(2,3840)	1:55:A:THR:HG21	1:60:A:PHE:HE2	2	0.42
(2,3795)	1:130:A:ALA:HB2	1:131:A:GLY:H	17	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3795)	1:130:A:ALA:HB1	1:60:A:PHE:HE2	18	0.42
(2,3771)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	18	0.42
(2,3759)	1:53:A:VAL:HG22	1:55:A:THR:H	6	0.42
(2,3726)	1:89:A:VAL:HG22	1:78:A:ARG:HA	1	0.42
(2,3726)	1:89:A:VAL:HG22	1:78:A:ARG:HA	19	0.42
(2,3703)	1:92:A:LEU:HD12	1:78:A:ARG:HB2	4	0.42
(2,3703)	1:92:A:LEU:HD13	1:75:A:GLU:HG3	12	0.42
(2,3702)	1:92:A:LEU:HD22	1:75:A:GLU:HG2	4	0.42
(2,3639)	1:79:A:SER:HB3	1:78:A:ARG:HG2	4	0.42
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	2	0.42
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	9	0.42
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	16	0.42
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	20	0.42
(2,3567)	1:68:A:ARG:H	1:149:A:ILE:HG23	4	0.42
(2,3450)	1:130:A:ALA:HB3	1:132:A:HIS:H	5	0.42
(2,3450)	1:130:A:ALA:HB1	1:132:A:HIS:H	9	0.42
(2,3328)	1:158:A:LYS:HG2	1:158:A:LYS:H	9	0.42
(2,3278)	1:66:A:THR:HG21	1:66:A:THR:H	5	0.42
(2,3278)	1:66:A:THR:HG22	1:66:A:THR:H	8	0.42
(2,3278)	1:66:A:THR:HG22	1:66:A:THR:H	11	0.42
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG13	4	0.42
(2,3112)	1:27:A:ASN:HD21	1:58:A:PRO:HD2	5	0.42
(2,2996)	1:6:A:ALA:HB3	1:6:A:ALA:H	2	0.42
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD21	4	0.42
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	3	0.42
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	8	0.42
(2,2850)	1:100:A:GLN:HB2	1:101:A:LEU:H	6	0.42
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG23	9	0.42
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	2	0.42
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	4	0.42
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	13	0.42
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	18	0.42
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	3	0.42
(2,2598)	1:138:A:GLU:HB2	1:138:A:GLU:H	8	0.42
(2,2568)	1:108:A:GLY:H	1:107:A:ASP:HB3	5	0.42
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	7	0.42
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	2	0.42
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	19	0.42
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG22	1	0.42
(2,2408)	1:115:A:ILE:HG21	1:116:A:GLU:HG2	7	0.42
(2,2408)	1:115:A:ILE:HG21	1:116:A:GLU:HG2	20	0.42
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	4	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	15	0.42
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	16	0.42
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	18	0.42
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	19	0.42
(2,2312)	1:77:A:LEU:HD23	1:144:A:PHE:HZ	4	0.42
(2,2307)	1:41:A:VAL:HG22	1:44:A:GLY:H	17	0.42
(2,2264)	1:134:A:LEU:HD11	1:133:A:PRO:HA	5	0.42
(2,2264)	1:134:A:LEU:HD13	1:133:A:PRO:HA	19	0.42
(2,2258)	1:130:A:ALA:HB1	1:136:A:GLN:HE22	8	0.42
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD13	5	0.42
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD12	7	0.42
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD13	18	0.42
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG22	4	0.42
(2,2210)	1:77:A:LEU:HD13	1:144:A:PHE:HD1	20	0.42
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	6	0.42
(2,2107)	1:98:A:LEU:HD13	1:97:A:PHE:HZ	15	0.42
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	10	0.42
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	19	0.42
(2,2011)	1:134:A:LEU:HD13	1:88:A:VAL:H	1	0.42
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG21	20	0.42
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	8	0.42
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	5	0.42
(2,1670)	1:31:A:ILE:HG21	1:31:A:ILE:H	3	0.42
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	13	0.42
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	14	0.42
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	17	0.42
(2,1611)	1:66:A:THR:HG22	1:50:A:GLU:HB2	7	0.42
(2,1611)	1:66:A:THR:HG23	1:50:A:GLU:HB2	14	0.42
(2,1525)	1:57:A:LEU:HD13	1:29:A:LEU:HA	1	0.42
(2,1401)	1:39:A:VAL:HG23	1:46:A:PHE:HE2	9	0.42
(2,1401)	1:39:A:VAL:HG22	1:46:A:PHE:HE2	14	0.42
(2,1401)	1:39:A:VAL:HG22	1:46:A:PHE:HE2	17	0.42
(2,1380)	1:135:A:ALA:HB2	1:141:A:LEU:HD23	15	0.42
(2,1376)	1:96:A:ALA:HB1	1:97:A:PHE:HZ	3	0.42
(2,1376)	1:96:A:ALA:HB3	1:97:A:PHE:HZ	12	0.42
(2,1371)	1:21:A:ALA:HB2	1:22:A:TYR:HD2	16	0.42
(2,1362)	1:135:A:ALA:HB2	1:132:A:HIS:HB2	3	0.42
(2,1357)	1:51:A:ILE:HG22	1:34:A:SER:H	2	0.42
(2,1357)	1:51:A:ILE:HG23	1:34:A:SER:H	9	0.42
(2,1335)	1:59:A:ILE:HG21	1:57:A:LEU:H	4	0.42
(2,1335)	1:59:A:ILE:HG21	1:57:A:LEU:H	15	0.42
(2,1116)	1:149:A:ILE:HD12	1:148:A:GLU:HA	3	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD11	5	0.42
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD12	8	0.42
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD12	11	0.42
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD13	16	0.42
(2,990)	1:102:A:PRO:HB3	1:102:A:PRO:HD2	18	0.42
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG23	2	0.42
(2,941)	1:109:A:ILE:HD11	1:107:A:ASP:HB3	10	0.42
(2,940)	1:106:A:ASP:HB3	1:109:A:ILE:HG22	2	0.42
(2,917)	1:109:A:ILE:HG23	1:110:A:PHE:H	16	0.42
(2,917)	1:109:A:ILE:HG23	1:110:A:PHE:H	19	0.42
(2,877)	1:115:A:ILE:HG21	1:47:A:THR:HG21	13	0.42
(2,855)	1:115:A:ILE:HG23	1:112:A:ASP:HA	13	0.42
(2,855)	1:115:A:ILE:HG22	1:112:A:ASP:HA	15	0.42
(2,847)	1:115:A:ILE:HD11	1:115:A:ILE:H	14	0.42
(2,680)	1:55:A:THR:HG23	1:63:A:LYS:HB3	10	0.42
(2,680)	1:55:A:THR:HG22	1:63:A:LYS:HB3	15	0.42
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	13	0.42
(2,628)	1:129:A:VAL:HG11	1:77:A:LEU:HD13	9	0.42
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	4	0.42
(2,542)	1:143:A:MET:HE1	1:154:A:TYR:HE1	17	0.42
(2,539)	1:143:A:MET:HE1	1:154:A:TYR:H	14	0.42
(2,531)	1:143:A:MET:HE1	1:154:A:TYR:HB2	18	0.42
(2,508)	1:39:A:VAL:HG11	1:39:A:VAL:HG22	7	0.42
(2,485)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	4	0.42
(2,485)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	7	0.42
(2,454)	1:141:A:LEU:HD11	1:77:A:LEU:HD12	4	0.42
(2,428)	1:13:A:THR:HG23	1:12:A:ILE:H	2	0.42
(2,423)	1:87:A:VAL:HG12	1:88:A:VAL:HG13	4	0.42
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG13	6	0.42
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG12	13	0.42
(2,312)	1:92:A:LEU:HD21	1:74:A:PHE:HA	8	0.42
(2,312)	1:92:A:LEU:HD21	1:74:A:PHE:HA	9	0.42
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	2	0.42
(2,151)	1:66:A:THR:HG22	1:50:A:GLU:H	7	0.42
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	3	0.42
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	10	0.42
(2,4981)	1:89:A:VAL:H	1:128:A:LYS:HB2	1	0.41
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	13	0.41
(2,4925)	1:137:A:ASN:HD22	1:160:A:ARG:HA	18	0.41
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	4	0.41
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	7	0.41
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	4	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	13	0.41
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	8	0.41
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD1	11	0.41
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG11	17	0.41
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	20	0.41
(2,4801)	1:31:A:ILE:HG23	1:31:A:ILE:H	1	0.41
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	7	0.41
(2,4801)	1:31:A:ILE:HG21	1:31:A:ILE:H	8	0.41
(2,4775)	1:11:A:LEU:HB3	1:11:A:LEU:H	2	0.41
(2,4736)	1:138:A:GLU:HG2	1:135:A:ALA:H	17	0.41
(2,4725)	1:50:A:GLU:H	1:36:A:PRO:HB3	3	0.41
(2,4714)	1:101:A:LEU:HD21	1:101:A:LEU:H	8	0.41
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	14	0.41
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	20	0.41
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	9	0.41
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	18	0.41
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD13	9	0.41
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD12	15	0.41
(2,4683)	1:137:A:ASN:H	1:132:A:HIS:HD2	2	0.41
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	1	0.41
(2,4618)	1:85:A:SER:H	1:86:A:LYS:HG3	3	0.41
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	10	0.41
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	1	0.41
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	5	0.41
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	10	0.41
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	17	0.41
(2,4533)	1:88:A:VAL:HG21	1:90:A:PRO:HB2	2	0.41
(2,4516)	1:72:A:SER:HB2	1:75:A:GLU:H	12	0.41
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	7	0.41
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD13	5	0.41
(2,4480)	1:92:A:LEU:HD11	1:76:A:TRP:H	3	0.41
(2,4475)	1:141:A:LEU:HD13	1:77:A:LEU:HD11	20	0.41
(2,4471)	1:77:A:LEU:HD11	1:141:A:LEU:HA	10	0.41
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	6	0.41
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG13	13	0.41
(2,4423)	1:122:A:LEU:HG	1:33:A:VAL:HG11	14	0.41
(2,4413)	1:99:A:ARG:HB2	1:99:A:ARG:HG2	13	0.41
(2,4413)	1:99:A:ARG:HB2	1:99:A:ARG:HG2	18	0.41
(2,4398)	1:62:A:LEU:HD12	1:61:A:LYS:HD2	13	0.41
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	3	0.41
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	6	0.41
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	15	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4358)	1:157:A:SER:HA	1:158:A:LYS:HD3	9	0.41
(2,4349)	1:145:A:LEU:HD21	1:144:A:PHE:HB3	20	0.41
(2,4347)	1:145:A:LEU:HD21	1:144:A:PHE:HD2	20	0.41
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	12	0.41
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	14	0.41
(2,4265)	1:68:A:ARG:HD3	1:68:A:ARG:H	16	0.41
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	5	0.41
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	10	0.41
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG23	9	0.41
(2,4218)	1:93:A:PRO:HA	1:93:A:PRO:HG2	11	0.41
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	2	0.41
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	8	0.41
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	16	0.41
(2,4182)	1:141:A:LEU:HD12	1:143:A:MET:HG2	19	0.41
(2,4155)	1:57:A:LEU:HG	1:59:A:ILE:H	10	0.41
(2,4141)	1:64:A:GLU:HG2	1:55:A:THR:H	8	0.41
(2,4122)	1:33:A:VAL:HG13	1:144:A:PHE:HE1	9	0.41
(2,4110)	1:96:A:ALA:HB1	1:97:A:PHE:HB3	13	0.41
(2,4102)	1:51:A:ILE:HG21	1:53:A:VAL:HB	11	0.41
(2,4043)	1:45:A:ARG:HD2	1:110:A:PHE:HD2	5	0.41
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	11	0.41
(2,3984)	1:104:A:ARG:HD3	1:104:A:ARG:HA	17	0.41
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	3	0.41
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	14	0.41
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	20	0.41
(2,3947)	1:115:A:ILE:HG23	1:36:A:PRO:HG2	3	0.41
(2,3940)	1:115:A:ILE:HD11	1:109:A:ILE:HA	16	0.41
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	2	0.41
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	12	0.41
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	19	0.41
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	4	0.41
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	13	0.41
(2,3844)	1:159:A:ILE:HG22	1:139:A:ARG:HA	18	0.41
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE2	5	0.41
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE2	11	0.41
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE2	18	0.41
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	19	0.41
(2,3819)	1:128:A:LYS:HD3	1:125:A:PHE:H	20	0.41
(2,3793)	1:130:A:ALA:HB1	1:126:A:ILE:HD12	13	0.41
(2,3793)	1:130:A:ALA:HB3	1:126:A:ILE:HD13	15	0.41
(2,3771)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	7	0.41
(2,3759)	1:53:A:VAL:HG23	1:30:A:GLU:H	13	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	4	0.41
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	14	0.41
(2,3707)	1:92:A:LEU:HD21	1:78:A:ARG:H	12	0.41
(2,3691)	1:150:A:ILE:HD11	1:143:A:MET:HB2	8	0.41
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG2	1	0.41
(2,3662)	1:64:A:GLU:HA	1:63:A:LYS:HB2	13	0.41
(2,3662)	1:64:A:GLU:HA	1:63:A:LYS:HB2	17	0.41
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	15	0.41
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	8	0.41
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	10	0.41
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	13	0.41
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	1	0.41
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	2	0.41
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	3	0.41
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	5	0.41
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	6	0.41
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	11	0.41
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	16	0.41
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	17	0.41
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	18	0.41
(2,3284)	1:68:A:ARG:H	1:50:A:GLU:HG2	3	0.41
(2,3278)	1:66:A:THR:HG21	1:66:A:THR:H	1	0.41
(2,3278)	1:66:A:THR:HG23	1:66:A:THR:H	14	0.41
(2,3278)	1:66:A:THR:HG23	1:66:A:THR:H	19	0.41
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD11	2	0.41
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	18	0.41
(2,3045)	1:14:A:LYS:H	1:14:A:LYS:HG3	7	0.41
(2,3024)	1:11:A:LEU:HD13	1:10:A:ARG:H	11	0.41
(2,2977)	1:3:A:GLU:HB2	1:3:A:GLU:H	14	0.41
(2,2971)	1:2:A:ALA:H	1:1:A:THR:HG22	2	0.41
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG23	16	0.41
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG21	18	0.41
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	3	0.41
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	11	0.41
(2,2710)	1:35:A:ASN:HD22	1:50:A:GLU:HB2	12	0.41
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	17	0.41
(2,2479)	1:141:A:LEU:H	1:138:A:GLU:HB3	8	0.41
(2,2444)	1:67:A:VAL:HG12	1:68:A:ARG:H	15	0.41
(2,2408)	1:115:A:ILE:HG22	1:116:A:GLU:HG2	10	0.41
(2,2396)	1:91:A:PRO:HB3	1:91:A:PRO:HD2	17	0.41
(2,2346)	1:88:A:VAL:HG11	1:90:A:PRO:HD2	18	0.41
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG23	4	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2264)	1:134:A:LEU:HD13	1:133:A:PRO:HA	1	0.41
(2,2264)	1:134:A:LEU:HD11	1:133:A:PRO:HA	4	0.41
(2,2264)	1:134:A:LEU:HD11	1:133:A:PRO:HA	11	0.41
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG23	6	0.41
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG21	19	0.41
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG23	8	0.41
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG23	16	0.41
(2,2212)	1:77:A:LEU:HD12	1:144:A:PHE:HZ	6	0.41
(2,2210)	1:77:A:LEU:HD13	1:144:A:PHE:HD2	13	0.41
(2,2197)	1:126:A:ILE:HD11	1:77:A:LEU:HD13	10	0.41
(2,2094)	1:98:A:LEU:HD23	1:97:A:PHE:HZ	9	0.41
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	9	0.41
(2,2011)	1:134:A:LEU:HD11	1:88:A:VAL:H	4	0.41
(2,1919)	1:33:A:VAL:HG21	1:49:A:TYR:HB2	12	0.41
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD21	9	0.41
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	19	0.41
(2,1702)	1:36:A:PRO:HD3	1:36:A:PRO:HB3	20	0.41
(2,1679)	1:126:A:ILE:HG22	1:31:A:ILE:HG21	1	0.41
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	12	0.41
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	19	0.41
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	10	0.41
(2,1612)	1:66:A:THR:HG23	1:50:A:GLU:HB3	7	0.41
(2,1611)	1:66:A:THR:HG21	1:50:A:GLU:HB2	1	0.41
(2,1376)	1:96:A:ALA:HB3	1:97:A:PHE:HZ	5	0.41
(2,1370)	1:21:A:ALA:HB3	1:20:A:ASP:H	9	0.41
(2,1362)	1:135:A:ALA:HB1	1:132:A:HIS:HB2	9	0.41
(2,1338)	1:59:A:ILE:HG21	1:58:A:PRO:HA	18	0.41
(2,1336)	1:59:A:ILE:HG21	1:61:A:LYS:H	4	0.41
(2,1336)	1:59:A:ILE:HG21	1:61:A:LYS:H	15	0.41
(2,1328)	1:115:A:ILE:HG21	1:114:A:PHE:HE2	10	0.41
(2,1318)	1:148:A:GLU:HB2	1:149:A:ILE:HG21	20	0.41
(2,1244)	1:81:A:LEU:HD23	1:135:A:ALA:HB3	9	0.41
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD22	4	0.41
(2,1189)	1:29:A:LEU:HA	1:29:A:LEU:HD23	15	0.41
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG23	20	0.41
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	11	0.41
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	19	0.41
(2,1128)	1:152:A:LYS:HE2	1:152:A:LYS:H	11	0.41
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	14	0.41
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD13	16	0.41
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD11	2	0.41
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD13	16	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD13	11	0.41
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	16	0.41
(2,1072)	1:159:A:ILE:HD12	1:139:A:ARG:HD2	14	0.41
(2,1063)	1:159:A:ILE:HD12	1:142:A:HIS:HB3	12	0.41
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG22	3	0.41
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	13	0.41
(2,917)	1:109:A:ILE:HG21	1:110:A:PHE:H	4	0.41
(2,877)	1:115:A:ILE:HG21	1:47:A:THR:HG21	12	0.41
(2,863)	1:115:A:ILE:HD13	1:114:A:PHE:HB3	6	0.41
(2,847)	1:115:A:ILE:HD13	1:115:A:ILE:H	16	0.41
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	7	0.41
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	11	0.41
(2,680)	1:55:A:THR:HG21	1:63:A:LYS:HB3	12	0.41
(2,680)	1:55:A:THR:HG21	1:63:A:LYS:HB3	14	0.41
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	17	0.41
(2,628)	1:129:A:VAL:HG11	1:77:A:LEU:HD12	3	0.41
(2,628)	1:129:A:VAL:HG13	1:77:A:LEU:HD12	12	0.41
(2,539)	1:143:A:MET:HE2	1:154:A:TYR:H	17	0.41
(2,508)	1:39:A:VAL:HG12	1:39:A:VAL:HG23	2	0.41
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG21	10	0.41
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG21	11	0.41
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD11	4	0.41
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD12	14	0.41
(2,490)	1:126:A:ILE:HG23	1:127:A:ASN:HB3	6	0.41
(2,490)	1:126:A:ILE:HG22	1:127:A:ASN:HB3	9	0.41
(2,485)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	6	0.41
(2,428)	1:13:A:THR:HG21	1:12:A:ILE:H	4	0.41
(2,423)	1:87:A:VAL:HG12	1:88:A:VAL:HG13	1	0.41
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	17	0.41
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG12	11	0.41
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG13	16	0.41
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG12	17	0.41
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG12	20	0.41
(2,355)	1:89:A:VAL:HG11	1:129:A:VAL:H	4	0.41
(2,312)	1:92:A:LEU:HD21	1:74:A:PHE:HA	5	0.41
(2,248)	1:150:A:ILE:HG22	1:144:A:PHE:HD1	20	0.41
(2,247)	1:150:A:ILE:HG22	1:76:A:TRP:HZ2	17	0.41
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE1	11	0.41
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	2	0.4
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	15	0.4
(2,4945)	1:77:A:LEU:HD22	1:142:A:HIS:H	4	0.4
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD12	19	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	3	0.4
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	7	0.4
(2,4777)	1:11:A:LEU:HD11	1:12:A:ILE:H	13	0.4
(2,4774)	1:11:A:LEU:H	1:10:A:ARG:HD3	15	0.4
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	20	0.4
(2,4704)	1:31:A:ILE:HD11	1:130:A:ALA:H	3	0.4
(2,4702)	1:64:A:GLU:HB2	1:64:A:GLU:H	17	0.4
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	8	0.4
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	11	0.4
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD11	5	0.4
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD12	16	0.4
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	16	0.4
(2,4680)	1:137:A:ASN:H	1:134:A:LEU:HB3	19	0.4
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	8	0.4
(2,4653)	1:146:A:GLN:H	1:67:A:VAL:HG13	18	0.4
(2,4648)	1:145:A:LEU:H	1:67:A:VAL:HG22	15	0.4
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	11	0.4
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	9	0.4
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	16	0.4
(2,4563)	1:32:A:ASP:HB2	1:52:A:ARG:HD3	9	0.4
(2,4544)	1:85:A:SER:HB3	1:86:A:LYS:HG3	9	0.4
(2,4544)	1:85:A:SER:HB3	1:86:A:LYS:HG3	11	0.4
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	14	0.4
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	17	0.4
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	13	0.4
(2,4480)	1:92:A:LEU:HD13	1:76:A:TRP:H	14	0.4
(2,4475)	1:141:A:LEU:HD13	1:77:A:LEU:HD13	6	0.4
(2,4474)	1:77:A:LEU:HD12	1:126:A:ILE:HB	8	0.4
(2,4471)	1:77:A:LEU:HD11	1:141:A:LEU:HA	14	0.4
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG12	11	0.4
(2,4413)	1:99:A:ARG:HB2	1:99:A:ARG:HG2	8	0.4
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	2	0.4
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	10	0.4
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	13	0.4
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD13	14	0.4
(2,4335)	1:77:A:LEU:HD21	1:141:A:LEU:HB3	9	0.4
(2,4335)	1:77:A:LEU:HD21	1:141:A:LEU:HB3	10	0.4
(2,4335)	1:77:A:LEU:HD22	1:141:A:LEU:HB3	12	0.4
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD12	14	0.4
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	3	0.4
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	11	0.4
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	12	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4233)	1:35:A:ASN:HB2	1:36:A:PRO:HD2	5	0.4
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG23	14	0.4
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG22	15	0.4
(2,4218)	1:93:A:PRO:HA	1:93:A:PRO:HG3	2	0.4
(2,4209)	1:61:A:LYS:HE2	1:62:A:LEU:HD13	1	0.4
(2,4183)	1:129:A:VAL:HG12	1:141:A:LEU:HD12	5	0.4
(2,4157)	1:57:A:LEU:HA	1:58:A:PRO:HG3	3	0.4
(2,4157)	1:57:A:LEU:HA	1:58:A:PRO:HG3	17	0.4
(2,4122)	1:33:A:VAL:HG11	1:144:A:PHE:HE1	3	0.4
(2,4071)	1:81:A:LEU:HD13	1:141:A:LEU:H	9	0.4
(2,4071)	1:81:A:LEU:HD12	1:141:A:LEU:H	12	0.4
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	13	0.4
(2,4057)	1:29:A:LEU:HD21	1:136:A:GLN:HG2	9	0.4
(2,4030)	1:152:A:LYS:HD2	1:76:A:TRP:HD1	13	0.4
(2,4008)	1:159:A:ILE:HD12	1:139:A:ARG:HB2	13	0.4
(2,3989)	1:26:A:SER:HB2	1:24:A:PRO:HB3	18	0.4
(2,3984)	1:104:A:ARG:HD3	1:104:A:ARG:HA	2	0.4
(2,3984)	1:104:A:ARG:HD3	1:104:A:ARG:HA	5	0.4
(2,3984)	1:104:A:ARG:HD3	1:104:A:ARG:HA	15	0.4
(2,3963)	1:109:A:ILE:HD11	1:107:A:ASP:HB2	9	0.4
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	9	0.4
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	8	0.4
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	20	0.4
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	7	0.4
(2,3869)	1:158:A:LYS:HD3	1:137:A:ASN:HD21	19	0.4
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	19	0.4
(2,3826)	1:14:A:LYS:HE2	1:14:A:LYS:HG2	5	0.4
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE2	4	0.4
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE2	6	0.4
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE2	14	0.4
(2,3819)	1:128:A:LYS:HD3	1:125:A:PHE:H	9	0.4
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	6	0.4
(2,3775)	1:126:A:ILE:HG23	1:31:A:ILE:HG23	11	0.4
(2,3771)	1:126:A:ILE:HG23	1:125:A:PHE:HD2	4	0.4
(2,3771)	1:126:A:ILE:HG21	1:125:A:PHE:HD2	6	0.4
(2,3755)	1:48:A:THR:HG22	1:68:A:ARG:HD2	7	0.4
(2,3727)	1:89:A:VAL:HA	1:128:A:LYS:HB2	9	0.4
(2,3726)	1:89:A:VAL:HG23	1:78:A:ARG:HA	3	0.4
(2,3726)	1:89:A:VAL:HG21	1:78:A:ARG:HA	14	0.4
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	15	0.4
(2,3708)	1:92:A:LEU:HD13	1:78:A:ARG:H	18	0.4
(2,3707)	1:92:A:LEU:HD22	1:78:A:ARG:H	15	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3703)	1:92:A:LEU:HD11	1:75:A:GLU:HG3	18	0.4
(2,3702)	1:92:A:LEU:HD23	1:75:A:GLU:HG2	13	0.4
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD13	17	0.4
(2,3662)	1:64:A:GLU:HA	1:63:A:LYS:HB2	7	0.4
(2,3662)	1:64:A:GLU:HA	1:63:A:LYS:HB2	11	0.4
(2,3662)	1:64:A:GLU:HA	1:54:A:LYS:HB2	20	0.4
(2,3658)	1:66:A:THR:HG23	1:52:A:ARG:HD2	15	0.4
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	10	0.4
(2,3639)	1:79:A:SER:HB3	1:78:A:ARG:HG2	1	0.4
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	13	0.4
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	4	0.4
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	8	0.4
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	10	0.4
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	14	0.4
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	19	0.4
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG22	15	0.4
(2,3505)	1:39:A:VAL:HG13	1:37:A:GLN:HE22	17	0.4
(2,3505)	1:39:A:VAL:HG12	1:37:A:GLN:HE22	19	0.4
(2,3278)	1:66:A:THR:HG22	1:66:A:THR:H	4	0.4
(2,3278)	1:66:A:THR:HG23	1:66:A:THR:H	6	0.4
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG21	12	0.4
(2,2617)	1:146:A:GLN:H	1:145:A:LEU:HD23	13	0.4
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD22	11	0.4
(2,2408)	1:115:A:ILE:HG23	1:116:A:GLU:HG2	18	0.4
(2,2384)	1:60:A:PHE:HB3	1:57:A:LEU:HB3	3	0.4
(2,2381)	1:83:A:ARG:HD3	1:84:A:GLU:HG3	1	0.4
(2,2354)	1:59:A:ILE:HD13	1:60:A:PHE:HZ	6	0.4
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	14	0.4
(2,2346)	1:88:A:VAL:HG13	1:90:A:PRO:HD2	7	0.4
(2,2315)	1:77:A:LEU:HD22	1:144:A:PHE:H	8	0.4
(2,2273)	1:145:A:LEU:HA	1:145:A:LEU:HG	14	0.4
(2,2264)	1:134:A:LEU:HD13	1:133:A:PRO:HA	2	0.4
(2,2264)	1:134:A:LEU:HD11	1:133:A:PRO:HA	3	0.4
(2,2264)	1:134:A:LEU:HD13	1:133:A:PRO:HA	10	0.4
(2,2264)	1:134:A:LEU:HD12	1:133:A:PRO:HA	16	0.4
(2,2263)	1:134:A:LEU:HD23	1:135:A:ALA:HA	2	0.4
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD11	6	0.4
(2,2231)	1:81:A:LEU:HD11	1:89:A:VAL:HG23	9	0.4
(2,2228)	1:89:A:VAL:HG22	1:82:A:GLU:HB2	19	0.4
(2,2094)	1:98:A:LEU:HD23	1:97:A:PHE:HZ	2	0.4
(2,2094)	1:98:A:LEU:HD22	1:97:A:PHE:HZ	13	0.4
(2,2094)	1:98:A:LEU:HD23	1:97:A:PHE:HZ	18	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2017)	1:134:A:LEU:HD12	1:137:A:ASN:HB2	6	0.4
(2,2011)	1:134:A:LEU:HD11	1:88:A:VAL:H	8	0.4
(2,2005)	1:51:A:ILE:HD11	1:69:A:ARG:HA	18	0.4
(2,1919)	1:33:A:VAL:HG23	1:49:A:TYR:HB2	9	0.4
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG23	20	0.4
(2,1756)	1:92:A:LEU:HD13	1:75:A:GLU:HB2	4	0.4
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	2	0.4
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	3	0.4
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	7	0.4
(2,1692)	1:34:A:SER:HB3	1:119:A:LYS:HD3	14	0.4
(2,1670)	1:31:A:ILE:HG22	1:31:A:ILE:H	10	0.4
(2,1670)	1:31:A:ILE:HG21	1:31:A:ILE:H	15	0.4
(2,1625)	1:160:A:ARG:HD3	1:159:A:ILE:HB	17	0.4
(2,1611)	1:66:A:THR:HG23	1:50:A:GLU:HB2	6	0.4
(2,1525)	1:57:A:LEU:HD13	1:29:A:LEU:HA	13	0.4
(2,1401)	1:39:A:VAL:HG21	1:46:A:PHE:HE2	3	0.4
(2,1401)	1:39:A:VAL:HG23	1:46:A:PHE:HE2	16	0.4
(2,1386)	1:135:A:ALA:HB3	1:130:A:ALA:H	16	0.4
(2,1381)	1:87:A:VAL:HG22	1:135:A:ALA:HB3	11	0.4
(2,1376)	1:96:A:ALA:HB1	1:97:A:PHE:HZ	9	0.4
(2,1357)	1:51:A:ILE:HG22	1:34:A:SER:H	18	0.4
(2,1335)	1:59:A:ILE:HG22	1:57:A:LEU:H	7	0.4
(2,1335)	1:59:A:ILE:HG23	1:57:A:LEU:H	13	0.4
(2,1335)	1:59:A:ILE:HG21	1:57:A:LEU:H	16	0.4
(2,1335)	1:59:A:ILE:HG23	1:57:A:LEU:H	18	0.4
(2,1330)	1:115:A:ILE:HG23	1:37:A:GLN:H	6	0.4
(2,1245)	1:81:A:LEU:HD21	1:137:A:ASN:H	17	0.4
(2,1128)	1:152:A:LYS:HE2	1:152:A:LYS:H	1	0.4
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD12	8	0.4
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD11	18	0.4
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD11	20	0.4
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	18	0.4
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG22	12	0.4
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG23	17	0.4
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG22	18	0.4
(2,917)	1:109:A:ILE:HG21	1:110:A:PHE:H	7	0.4
(2,917)	1:109:A:ILE:HG21	1:110:A:PHE:H	15	0.4
(2,847)	1:115:A:ILE:HD13	1:115:A:ILE:H	6	0.4
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	5	0.4
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	10	0.4
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	17	0.4
(2,680)	1:55:A:THR:HG22	1:63:A:LYS:HB3	1	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,680)	1:55:A:THR:HG21	1:63:A:LYS:HB3	17	0.4
(2,539)	1:143:A:MET:HE1	1:154:A:TYR:H	13	0.4
(2,526)	1:122:A:LEU:HD12	1:75:A:GLU:H	3	0.4
(2,526)	1:122:A:LEU:HD13	1:75:A:GLU:H	5	0.4
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG21	16	0.4
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG22	20	0.4
(2,490)	1:126:A:ILE:HG22	1:127:A:ASN:HB3	4	0.4
(2,490)	1:126:A:ILE:HG21	1:127:A:ASN:HB3	7	0.4
(2,485)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	12	0.4
(2,454)	1:141:A:LEU:HD12	1:77:A:LEU:HD12	19	0.4
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	15	0.4
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG11	2	0.4
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG13	4	0.4
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG11	5	0.4
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG11	7	0.4
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG12	9	0.4
(2,375)	1:89:A:VAL:HG22	1:78:A:ARG:HG3	19	0.4
(2,306)	1:92:A:LEU:HD22	1:75:A:GLU:H	16	0.4
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE2	13	0.4
(2,137)	1:67:A:VAL:HG21	1:68:A:ARG:H	4	0.4
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	4	0.4
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	9	0.4
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	16	0.39
(2,4853)	1:100:A:GLN:HG2	1:100:A:GLN:H	1	0.39
(2,4842)	1:71:A:TYR:H	1:75:A:GLU:HG2	16	0.39
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	18	0.39
(2,4807)	1:57:A:LEU:H	1:28:A:PHE:HE2	6	0.39
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG11	3	0.39
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG13	13	0.39
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	2	0.39
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	9	0.39
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	17	0.39
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	18	0.39
(2,4722)	1:161:A:HIS:HA	1:160:A:ARG:H	19	0.39
(2,4714)	1:101:A:LEU:HD23	1:101:A:LEU:H	14	0.39
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	3	0.39
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	12	0.39
(2,4702)	1:64:A:GLU:HB2	1:64:A:GLU:H	18	0.39
(2,4696)	1:45:A:ARG:H	1:46:A:PHE:HD1	7	0.39
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	18	0.39
(2,4683)	1:137:A:ASN:H	1:132:A:HIS:HD2	20	0.39
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	5	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4659)	1:0:A:GLY:H	1:-1:A:VAL:HG12	3	0.39
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	5	0.39
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	14	0.39
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	12	0.39
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	13	0.39
(2,4533)	1:88:A:VAL:HG22	1:90:A:PRO:HB2	4	0.39
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	15	0.39
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	10	0.39
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD12	1	0.39
(2,4492)	1:130:A:ALA:HA	1:81:A:LEU:HD11	19	0.39
(2,4480)	1:92:A:LEU:HD12	1:76:A:TRP:H	4	0.39
(2,4480)	1:92:A:LEU:HD11	1:76:A:TRP:H	8	0.39
(2,4480)	1:92:A:LEU:HD11	1:76:A:TRP:H	13	0.39
(2,4475)	1:141:A:LEU:HD11	1:77:A:LEU:HD11	11	0.39
(2,4454)	1:31:A:ILE:HG23	1:52:A:ARG:HB2	15	0.39
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	4	0.39
(2,4448)	1:44:A:GLY:HA3	1:43:A:ARG:HG2	8	0.39
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	4	0.39
(2,4447)	1:44:A:GLY:HA2	1:43:A:ARG:HG2	6	0.39
(2,4414)	1:11:A:LEU:HA	1:10:A:ARG:HB2	10	0.39
(2,4413)	1:99:A:ARG:HB2	1:99:A:ARG:HG2	3	0.39
(2,4413)	1:99:A:ARG:HB2	1:99:A:ARG:HG2	16	0.39
(2,4398)	1:62:A:LEU:HD11	1:61:A:LYS:HD2	20	0.39
(2,4335)	1:59:A:ILE:HG23	1:141:A:LEU:HB3	17	0.39
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD12	6	0.39
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD11	8	0.39
(2,4240)	1:31:A:ILE:HG23	1:52:A:ARG:HB2	8	0.39
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG23	7	0.39
(2,4218)	1:93:A:PRO:HA	1:93:A:PRO:HG2	4	0.39
(2,4204)	1:158:A:LYS:HD3	1:137:A:ASN:HD22	5	0.39
(2,4182)	1:141:A:LEU:HD12	1:143:A:MET:HG2	3	0.39
(2,4157)	1:57:A:LEU:HA	1:58:A:PRO:HG3	10	0.39
(2,4144)	1:64:A:GLU:HG2	1:54:A:LYS:HE3	5	0.39
(2,4110)	1:96:A:ALA:HB3	1:97:A:PHE:HB3	1	0.39
(2,4103)	1:51:A:ILE:HG22	1:60:A:PHE:HE2	4	0.39
(2,4071)	1:81:A:LEU:HD12	1:141:A:LEU:H	1	0.39
(2,4051)	1:29:A:LEU:HD23	1:145:A:LEU:HG	6	0.39
(2,4051)	1:29:A:LEU:HD22	1:145:A:LEU:HG	16	0.39
(2,4037)	1:122:A:LEU:HD12	1:33:A:VAL:HG11	5	0.39
(2,3984)	1:104:A:ARG:HD3	1:104:A:ARG:HA	4	0.39
(2,3984)	1:104:A:ARG:HD2	1:104:A:ARG:HA	10	0.39
(2,3984)	1:104:A:ARG:HD2	1:104:A:ARG:HA	16	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3983)	1:104:A:ARG:HD3	1:104:A:ARG:HB3	19	0.39
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	5	0.39
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	7	0.39
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	8	0.39
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	19	0.39
(2,3947)	1:115:A:ILE:HG22	1:36:A:PRO:HG2	6	0.39
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	9	0.39
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	13	0.39
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	14	0.39
(2,3850)	1:82:A:GLU:HG2	1:79:A:SER:HB3	14	0.39
(2,3840)	1:55:A:THR:HG21	1:60:A:PHE:HE2	13	0.39
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	2	0.39
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	3	0.39
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE2	8	0.39
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE2	10	0.39
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	13	0.39
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	15	0.39
(2,3795)	1:130:A:ALA:HB3	1:131:A:GLY:H	13	0.39
(2,3793)	1:130:A:ALA:HB1	1:145:A:LEU:HD11	6	0.39
(2,3775)	1:126:A:ILE:HG21	1:31:A:ILE:HG22	8	0.39
(2,3771)	1:126:A:ILE:HG22	1:125:A:PHE:HD2	12	0.39
(2,3755)	1:48:A:THR:HG23	1:46:A:PHE:HB2	20	0.39
(2,3726)	1:89:A:VAL:HG22	1:78:A:ARG:HA	4	0.39
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	2	0.39
(2,3658)	1:66:A:THR:HG23	1:52:A:ARG:HD2	11	0.39
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	7	0.39
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	12	0.39
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	13	0.39
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	16	0.39
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	9	0.39
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	18	0.39
(2,3450)	1:130:A:ALA:HB1	1:132:A:HIS:H	16	0.39
(2,3278)	1:66:A:THR:HG23	1:66:A:THR:H	20	0.39
(2,3127)	1:29:A:LEU:H	1:57:A:LEU:HD12	10	0.39
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	2	0.39
(2,3024)	1:11:A:LEU:HD12	1:10:A:ARG:H	5	0.39
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD21	11	0.39
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD21	19	0.39
(2,2900)	1:50:A:GLU:H	1:68:A:ARG:HG2	17	0.39
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG23	11	0.39
(2,2776)	1:42:A:GLY:H	1:45:A:ARG:HD3	9	0.39
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	13	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2579)	1:99:A:ARG:H	1:99:A:ARG:HG3	1	0.39
(2,2408)	1:115:A:ILE:HG22	1:116:A:GLU:HG2	19	0.39
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	10	0.39
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	8	0.39
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	10	0.39
(2,2354)	1:59:A:ILE:HD12	1:60:A:PHE:HZ	11	0.39
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	17	0.39
(2,2346)	1:88:A:VAL:HG12	1:90:A:PRO:HD2	3	0.39
(2,2346)	1:88:A:VAL:HG11	1:90:A:PRO:HD2	9	0.39
(2,2346)	1:88:A:VAL:HG11	1:90:A:PRO:HD2	16	0.39
(2,2307)	1:41:A:VAL:HG22	1:44:A:GLY:H	14	0.39
(2,2298)	1:18:A:LEU:HD21	1:17:A:ASN:H	20	0.39
(2,2264)	1:134:A:LEU:HD13	1:133:A:PRO:HA	9	0.39
(2,2264)	1:134:A:LEU:HD11	1:133:A:PRO:HA	12	0.39
(2,2264)	1:134:A:LEU:HD11	1:133:A:PRO:HA	14	0.39
(2,2264)	1:134:A:LEU:HD12	1:133:A:PRO:HA	15	0.39
(2,2231)	1:81:A:LEU:HD11	1:89:A:VAL:HG23	5	0.39
(2,2231)	1:81:A:LEU:HD13	1:89:A:VAL:HG22	20	0.39
(2,2228)	1:89:A:VAL:HG21	1:82:A:GLU:HB2	12	0.39
(2,2222)	1:78:A:ARG:HG2	1:92:A:LEU:HD11	11	0.39
(2,2212)	1:77:A:LEU:HD11	1:144:A:PHE:HZ	4	0.39
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	12	0.39
(2,2095)	1:134:A:LEU:HD21	1:88:A:VAL:H	11	0.39
(2,2095)	1:134:A:LEU:HD22	1:88:A:VAL:H	14	0.39
(2,2094)	1:98:A:LEU:HD23	1:97:A:PHE:HZ	10	0.39
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	15	0.39
(2,2068)	1:92:A:LEU:HD11	1:78:A:ARG:HD2	1	0.39
(2,2011)	1:134:A:LEU:HD13	1:88:A:VAL:H	9	0.39
(2,2011)	1:134:A:LEU:HD11	1:88:A:VAL:H	12	0.39
(2,1953)	1:145:A:LEU:HD21	1:141:A:LEU:HB3	17	0.39
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	4	0.39
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	11	0.39
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD21	5	0.39
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	8	0.39
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	15	0.39
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	11	0.39
(2,1671)	1:31:A:ILE:HG22	1:127:A:ASN:HD21	9	0.39
(2,1670)	1:31:A:ILE:HG23	1:31:A:ILE:H	16	0.39
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG23	10	0.39
(2,1612)	1:66:A:THR:HG22	1:50:A:GLU:HB3	11	0.39
(2,1611)	1:66:A:THR:HG21	1:50:A:GLU:HB2	3	0.39
(2,1611)	1:66:A:THR:HG21	1:50:A:GLU:HB2	5	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1583)	1:141:A:LEU:HD11	1:138:A:GLU:H	8	0.39
(2,1489)	1:29:A:LEU:HD12	1:55:A:THR:HA	10	0.39
(2,1445)	1:133:A:PRO:HA	1:136:A:GLN:HG3	4	0.39
(2,1401)	1:39:A:VAL:HG21	1:46:A:PHE:HE2	12	0.39
(2,1381)	1:87:A:VAL:HG22	1:135:A:ALA:HB3	4	0.39
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB3	20	0.39
(2,1376)	1:96:A:ALA:HB1	1:97:A:PHE:HZ	11	0.39
(2,1357)	1:51:A:ILE:HG22	1:34:A:SER:H	17	0.39
(2,1338)	1:59:A:ILE:HG21	1:58:A:PRO:HA	10	0.39
(2,1336)	1:59:A:ILE:HG21	1:61:A:LYS:H	20	0.39
(2,1286)	1:51:A:ILE:HD13	1:144:A:PHE:HE1	16	0.39
(2,1245)	1:81:A:LEU:HD21	1:137:A:ASN:H	15	0.39
(2,1233)	1:81:A:LEU:HD13	1:81:A:LEU:H	15	0.39
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	4	0.39
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD11	1	0.39
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD12	6	0.39
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD11	1	0.39
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD12	3	0.39
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD11	5	0.39
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD12	2	0.39
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	16	0.39
(2,1057)	1:159:A:ILE:HD13	1:159:A:ILE:H	1	0.39
(2,1057)	1:159:A:ILE:HD13	1:159:A:ILE:H	6	0.39
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD11	1	0.39
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG21	1	0.39
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG21	8	0.39
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG21	10	0.39
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG21	13	0.39
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG21	16	0.39
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG22	20	0.39
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG21	14	0.39
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG21	16	0.39
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	4	0.39
(2,755)	1:122:A:LEU:HD22	1:122:A:LEU:HA	14	0.39
(2,753)	1:122:A:LEU:HD23	1:33:A:VAL:HG23	16	0.39
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	15	0.39
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	19	0.39
(2,680)	1:55:A:THR:HG22	1:63:A:LYS:HB3	2	0.39
(2,628)	1:129:A:VAL:HG12	1:77:A:LEU:HD11	4	0.39
(2,566)	1:150:A:ILE:HG22	1:143:A:MET:HG3	17	0.39
(2,540)	1:143:A:MET:HE1	1:76:A:TRP:HZ2	17	0.39
(2,539)	1:143:A:MET:HE1	1:154:A:TYR:H	12	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,525)	1:122:A:LEU:HD12	1:122:A:LEU:H	12	0.39
(2,525)	1:122:A:LEU:HD13	1:122:A:LEU:H	13	0.39
(2,508)	1:39:A:VAL:HG12	1:39:A:VAL:HG21	13	0.39
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG21	15	0.39
(2,495)	1:126:A:ILE:HG23	1:31:A:ILE:HD13	11	0.39
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD12	17	0.39
(2,490)	1:126:A:ILE:HG21	1:127:A:ASN:HB3	12	0.39
(2,461)	1:48:A:THR:HG23	1:68:A:ARG:HG2	11	0.39
(2,428)	1:13:A:THR:HG23	1:12:A:ILE:H	10	0.39
(2,428)	1:13:A:THR:HG23	1:12:A:ILE:H	15	0.39
(2,381)	1:89:A:VAL:HG11	1:81:A:LEU:HD13	4	0.39
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG12	19	0.39
(2,312)	1:92:A:LEU:HD22	1:74:A:PHE:HA	15	0.39
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	12	0.39
(2,151)	1:66:A:THR:HG21	1:50:A:GLU:H	3	0.39
(2,151)	1:66:A:THR:HG21	1:50:A:GLU:H	5	0.39
(2,151)	1:66:A:THR:HG23	1:50:A:GLU:H	14	0.39
(2,151)	1:66:A:THR:HG21	1:50:A:GLU:H	16	0.39
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	8	0.39
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	16	0.39
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	18	0.39
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	19	0.39
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	7	0.38
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	5	0.38
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	14	0.38
(2,4890)	1:143:A:MET:H	1:141:A:LEU:HD12	8	0.38
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	6	0.38
(2,4853)	1:100:A:GLN:HG2	1:100:A:GLN:H	16	0.38
(2,4852)	1:97:A:PHE:HB2	1:96:A:ALA:H	14	0.38
(2,4838)	1:65:A:SER:H	1:55:A:THR:HG22	5	0.38
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	2	0.38
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	10	0.38
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG11	12	0.38
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	16	0.38
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	19	0.38
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	5	0.38
(2,4801)	1:31:A:ILE:HG21	1:31:A:ILE:H	6	0.38
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	7	0.38
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	7	0.38
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	16	0.38
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD2	9	0.38
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	13	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	12	0.38
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	19	0.38
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	11	0.38
(2,4630)	1:7:A:ASP:H	1:5:A:VAL:HG13	16	0.38
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	4	0.38
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	8	0.38
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	2	0.38
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG23	15	0.38
(2,4550)	1:34:A:SER:HB2	1:52:A:ARG:HD3	14	0.38
(2,4544)	1:85:A:SER:HB3	1:86:A:LYS:HG3	20	0.38
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	1	0.38
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	9	0.38
(2,4485)	1:95:A:LYS:HE3	1:95:A:LYS:HG3	9	0.38
(2,4480)	1:92:A:LEU:HD11	1:76:A:TRP:H	5	0.38
(2,4475)	1:141:A:LEU:HD13	1:77:A:LEU:HD11	10	0.38
(2,4465)	1:61:A:LYS:HB2	1:62:A:LEU:HG	14	0.38
(2,4414)	1:12:A:ILE:HB	1:11:A:LEU:HA	12	0.38
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG2	6	0.38
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG3	19	0.38
(2,4347)	1:38:A:THR:HG22	1:110:A:PHE:HZ	18	0.38
(2,4335)	1:77:A:LEU:HD23	1:141:A:LEU:HB3	11	0.38
(2,4335)	1:59:A:ILE:HG21	1:141:A:LEU:HB3	14	0.38
(2,4325)	1:33:A:VAL:HG22	1:119:A:LYS:HG3	1	0.38
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	8	0.38
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	16	0.38
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	6	0.38
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	7	0.38
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	14	0.38
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	15	0.38
(2,4264)	1:52:A:ARG:HD3	1:53:A:VAL:H	15	0.38
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	6	0.38
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	12	0.38
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	17	0.38
(2,4205)	1:158:A:LYS:HD3	1:159:A:ILE:H	5	0.38
(2,4183)	1:129:A:VAL:HG12	1:141:A:LEU:HD11	4	0.38
(2,4179)	1:141:A:LEU:HD12	1:60:A:PHE:HZ	17	0.38
(2,4157)	1:57:A:LEU:HA	1:58:A:PRO:HG3	2	0.38
(2,4157)	1:57:A:LEU:HA	1:58:A:PRO:HG3	18	0.38
(2,4084)	1:51:A:ILE:HD13	1:34:A:SER:H	13	0.38
(2,4030)	1:152:A:LYS:HD2	1:76:A:TRP:HD1	4	0.38
(2,3983)	1:104:A:ARG:HD3	1:104:A:ARG:HB3	14	0.38
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	1	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	12	0.38
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	16	0.38
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	17	0.38
(2,3947)	1:115:A:ILE:HG23	1:36:A:PRO:HG2	10	0.38
(2,3869)	1:158:A:LYS:HD2	1:137:A:ASN:HD21	1	0.38
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	16	0.38
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	20	0.38
(2,3819)	1:128:A:LYS:HD3	1:125:A:PHE:H	18	0.38
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	1	0.38
(2,3818)	1:128:A:LYS:HE3	1:128:A:LYS:H	13	0.38
(2,3795)	1:130:A:ALA:HB1	1:60:A:PHE:HE2	2	0.38
(2,3795)	1:130:A:ALA:HB3	1:131:A:GLY:H	6	0.38
(2,3793)	1:130:A:ALA:HB3	1:145:A:LEU:HD13	4	0.38
(2,3772)	1:126:A:ILE:HG21	1:32:A:ASP:HA	5	0.38
(2,3764)	1:53:A:VAL:HG23	1:30:A:GLU:HG3	3	0.38
(2,3763)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	5	0.38
(2,3755)	1:48:A:THR:HG23	1:46:A:PHE:HB2	12	0.38
(2,3727)	1:89:A:VAL:HA	1:90:A:PRO:HG3	3	0.38
(2,3708)	1:92:A:LEU:HD11	1:78:A:ARG:H	3	0.38
(2,3708)	1:92:A:LEU:HD11	1:78:A:ARG:H	5	0.38
(2,3703)	1:92:A:LEU:HD12	1:75:A:GLU:HG3	16	0.38
(2,3684)	1:155:A:THR:HG23	1:156:A:PRO:HD2	12	0.38
(2,3662)	1:64:A:GLU:HA	1:54:A:LYS:HB2	14	0.38
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	6	0.38
(2,3631)	1:82:A:GLU:HA	1:85:A:SER:HB2	17	0.38
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	9	0.38
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	20	0.38
(2,3278)	1:66:A:THR:HG23	1:66:A:THR:H	10	0.38
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	19	0.38
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	1	0.38
(2,2977)	1:3:A:GLU:HB2	1:3:A:GLU:H	15	0.38
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD22	9	0.38
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD21	15	0.38
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	19	0.38
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	3	0.38
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG23	1	0.38
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG23	10	0.38
(2,2739)	1:137:A:ASN:H	1:136:A:GLN:HG3	4	0.38
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	2	0.38
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG22	19	0.38
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	12	0.38
(2,2354)	1:59:A:ILE:HD12	1:60:A:PHE:HZ	16	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2346)	1:88:A:VAL:HG13	1:90:A:PRO:HD2	10	0.38
(2,2346)	1:88:A:VAL:HG11	1:90:A:PRO:HD2	14	0.38
(2,2346)	1:88:A:VAL:HG13	1:90:A:PRO:HD2	15	0.38
(2,2346)	1:88:A:VAL:HG12	1:90:A:PRO:HD2	17	0.38
(2,2307)	1:41:A:VAL:HG22	1:44:A:GLY:H	11	0.38
(2,2307)	1:41:A:VAL:HG21	1:44:A:GLY:H	15	0.38
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG22	7	0.38
(2,2264)	1:134:A:LEU:HD11	1:133:A:PRO:HA	6	0.38
(2,2264)	1:134:A:LEU:HD12	1:133:A:PRO:HA	7	0.38
(2,2264)	1:134:A:LEU:HD13	1:133:A:PRO:HA	18	0.38
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD11	2	0.38
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD12	10	0.38
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG22	7	0.38
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG23	13	0.38
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG22	17	0.38
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG22	19	0.38
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG23	20	0.38
(2,2197)	1:126:A:ILE:HD11	1:77:A:LEU:HD13	11	0.38
(2,2094)	1:98:A:LEU:HD22	1:97:A:PHE:HZ	5	0.38
(2,2094)	1:98:A:LEU:HD21	1:97:A:PHE:HZ	15	0.38
(2,2094)	1:98:A:LEU:HD21	1:97:A:PHE:HZ	20	0.38
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	7	0.38
(2,2017)	1:134:A:LEU:HD13	1:137:A:ASN:HB2	15	0.38
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	14	0.38
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	13	0.38
(2,1671)	1:31:A:ILE:HG21	1:127:A:ASN:HD21	8	0.38
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG23	11	0.38
(2,1612)	1:66:A:THR:HG22	1:50:A:GLU:HB3	4	0.38
(2,1611)	1:66:A:THR:HG22	1:50:A:GLU:HB2	15	0.38
(2,1525)	1:57:A:LEU:HD11	1:29:A:LEU:HA	4	0.38
(2,1525)	1:57:A:LEU:HD11	1:29:A:LEU:HA	14	0.38
(2,1520)	1:57:A:LEU:HD13	1:60:A:PHE:H	14	0.38
(2,1401)	1:39:A:VAL:HG21	1:46:A:PHE:HE2	5	0.38
(2,1386)	1:135:A:ALA:HB1	1:130:A:ALA:H	1	0.38
(2,1384)	1:135:A:ALA:HB3	1:137:A:ASN:H	5	0.38
(2,1376)	1:96:A:ALA:HB1	1:97:A:PHE:HZ	8	0.38
(2,1376)	1:96:A:ALA:HB3	1:97:A:PHE:HZ	14	0.38
(2,1376)	1:96:A:ALA:HB3	1:97:A:PHE:HZ	17	0.38
(2,1376)	1:96:A:ALA:HB1	1:97:A:PHE:HZ	19	0.38
(2,1336)	1:59:A:ILE:HG22	1:61:A:LYS:H	9	0.38
(2,1336)	1:59:A:ILE:HG22	1:61:A:LYS:H	14	0.38
(2,1335)	1:59:A:ILE:HG23	1:57:A:LEU:H	12	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1328)	1:115:A:ILE:HG23	1:114:A:PHE:HE2	5	0.38
(2,1318)	1:148:A:GLU:HB2	1:149:A:ILE:HG23	10	0.38
(2,1289)	1:51:A:ILE:HD12	1:33:A:VAL:HA	19	0.38
(2,1276)	1:115:A:ILE:HD11	1:114:A:PHE:HD2	2	0.38
(2,1244)	1:81:A:LEU:HD23	1:135:A:ALA:HB2	7	0.38
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG21	2	0.38
(2,1116)	1:149:A:ILE:HD11	1:148:A:GLU:HA	19	0.38
(2,1116)	1:149:A:ILE:HD13	1:148:A:GLU:HA	20	0.38
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD11	2	0.38
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD11	7	0.38
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD12	14	0.38
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD12	6	0.38
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD11	17	0.38
(2,1057)	1:159:A:ILE:HD12	1:159:A:ILE:H	10	0.38
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD13	3	0.38
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD13	20	0.38
(2,950)	1:100:A:GLN:HA	1:100:A:GLN:HB3	7	0.38
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG22	18	0.38
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG23	20	0.38
(2,863)	1:115:A:ILE:HD11	1:114:A:PHE:HB3	3	0.38
(2,847)	1:115:A:ILE:HD13	1:115:A:ILE:H	20	0.38
(2,755)	1:122:A:LEU:HD23	1:122:A:LEU:HA	3	0.38
(2,748)	1:122:A:LEU:HD21	1:122:A:LEU:H	10	0.38
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	18	0.38
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB2	16	0.38
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	11	0.38
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	19	0.38
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	13	0.38
(2,541)	1:143:A:MET:HE3	1:144:A:PHE:HD1	20	0.38
(2,526)	1:122:A:LEU:HD11	1:75:A:GLU:H	10	0.38
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG21	8	0.38
(2,508)	1:39:A:VAL:HG11	1:39:A:VAL:HG21	9	0.38
(2,508)	1:39:A:VAL:HG11	1:39:A:VAL:HG23	17	0.38
(2,508)	1:39:A:VAL:HG11	1:39:A:VAL:HG22	18	0.38
(2,495)	1:126:A:ILE:HG23	1:31:A:ILE:HD12	13	0.38
(2,490)	1:126:A:ILE:HG21	1:127:A:ASN:HB3	16	0.38
(2,479)	1:53:A:VAL:HG22	1:55:A:THR:HG21	11	0.38
(2,465)	1:47:A:THR:HG23	1:114:A:PHE:HE2	10	0.38
(2,379)	1:89:A:VAL:HB	1:87:A:VAL:HG12	3	0.38
(2,375)	1:89:A:VAL:HG22	1:78:A:ARG:HG3	4	0.38
(2,355)	1:89:A:VAL:HG13	1:129:A:VAL:H	1	0.38
(2,355)	1:89:A:VAL:HG12	1:129:A:VAL:H	3	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,355)	1:89:A:VAL:HG11	1:129:A:VAL:H	6	0.38
(2,355)	1:89:A:VAL:HG13	1:129:A:VAL:H	8	0.38
(2,355)	1:89:A:VAL:HG13	1:129:A:VAL:H	13	0.38
(2,355)	1:89:A:VAL:HG11	1:129:A:VAL:H	15	0.38
(2,355)	1:89:A:VAL:HG11	1:129:A:VAL:H	16	0.38
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	6	0.38
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	17	0.38
(2,4981)	1:89:A:VAL:H	1:128:A:LYS:HB2	6	0.37
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	8	0.37
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	14	0.37
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	11	0.37
(2,4954)	1:100:A:GLN:HG2	1:100:A:GLN:HE22	8	0.37
(2,4954)	1:100:A:GLN:HG3	1:100:A:GLN:HE22	9	0.37
(2,4954)	1:100:A:GLN:HG2	1:100:A:GLN:HE22	11	0.37
(2,4954)	1:100:A:GLN:HG2	1:100:A:GLN:HE22	12	0.37
(2,4954)	1:100:A:GLN:HG2	1:100:A:GLN:HE22	14	0.37
(2,4954)	1:100:A:GLN:HG2	1:100:A:GLN:HE22	15	0.37
(2,4954)	1:100:A:GLN:HG3	1:100:A:GLN:HE22	18	0.37
(2,4954)	1:100:A:GLN:HG3	1:100:A:GLN:HE22	20	0.37
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	20	0.37
(2,4925)	1:137:A:ASN:HD22	1:160:A:ARG:HA	7	0.37
(2,4925)	1:137:A:ASN:HD22	1:134:A:LEU:HA	11	0.37
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	1	0.37
(2,4899)	1:124:A:GLN:HE22	1:123:A:GLU:HA	4	0.37
(2,4835)	1:65:A:SER:H	1:62:A:LEU:HB2	18	0.37
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	11	0.37
(2,4801)	1:31:A:ILE:HG21	1:31:A:ILE:H	3	0.37
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	13	0.37
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	14	0.37
(2,4775)	1:11:A:LEU:H	1:10:A:ARG:HG2	4	0.37
(2,4775)	1:11:A:LEU:HB2	1:11:A:LEU:H	13	0.37
(2,4763)	1:6:A:ALA:H	1:5:A:VAL:HG13	3	0.37
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD2	10	0.37
(2,4727)	1:33:A:VAL:HG21	1:50:A:GLU:H	13	0.37
(2,4726)	1:50:A:GLU:H	1:68:A:ARG:HG3	15	0.37
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	9	0.37
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	5	0.37
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	7	0.37
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	1	0.37
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	14	0.37
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	14	0.37
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG22	9	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG21	14	0.37
(2,4536)	1:92:A:LEU:HD13	1:125:A:PHE:HE1	14	0.37
(2,4533)	1:88:A:VAL:HG22	1:90:A:PRO:HB2	19	0.37
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	5	0.37
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	17	0.37
(2,4480)	1:92:A:LEU:HD11	1:76:A:TRP:H	16	0.37
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	3	0.37
(2,4423)	1:33:A:VAL:HG23	1:122:A:LEU:HG	16	0.37
(2,4414)	1:12:A:ILE:HB	1:11:A:LEU:HA	6	0.37
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG2	12	0.37
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG2	5	0.37
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	7	0.37
(2,4358)	1:157:A:SER:HA	1:158:A:LYS:HD2	5	0.37
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD23	11	0.37
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG21	12	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	1	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	2	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	3	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	4	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	5	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	7	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	8	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	10	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	11	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	16	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	19	0.37
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	20	0.37
(2,4209)	1:61:A:LYS:HE2	1:62:A:LEU:HD12	10	0.37
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	12	0.37
(2,4190)	1:77:A:LEU:HD21	1:80:A:GLU:HB2	15	0.37
(2,4158)	1:57:A:LEU:HD13	1:57:A:LEU:HA	2	0.37
(2,4158)	1:57:A:LEU:HD13	1:57:A:LEU:HA	4	0.37
(2,4141)	1:64:A:GLU:HG2	1:55:A:THR:H	20	0.37
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD12	19	0.37
(2,4123)	1:37:A:GLN:HG3	1:39:A:VAL:HG21	9	0.37
(2,4122)	1:33:A:VAL:HG13	1:144:A:PHE:HE1	5	0.37
(2,4110)	1:96:A:ALA:HB1	1:97:A:PHE:HB3	9	0.37
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	7	0.37
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG21	17	0.37
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	2	0.37
(2,4008)	1:159:A:ILE:HD12	1:139:A:ARG:HB3	17	0.37
(2,3963)	1:109:A:ILE:HD12	1:107:A:ASP:HB3	3	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3958)	1:109:A:ILE:HD12	1:108:A:GLY:H	15	0.37
(2,3956)	1:108:A:GLY:HA3	1:109:A:ILE:HG23	6	0.37
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	2	0.37
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	6	0.37
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	18	0.37
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	20	0.37
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	5	0.37
(2,3869)	1:158:A:LYS:HD2	1:137:A:ASN:HD21	6	0.37
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	19	0.37
(2,3845)	1:60:A:PHE:HB3	1:55:A:THR:HG22	4	0.37
(2,3795)	1:130:A:ALA:HB1	1:60:A:PHE:HE2	11	0.37
(2,3793)	1:130:A:ALA:HB2	1:126:A:ILE:HD12	14	0.37
(2,3747)	1:0:A:GLY:HA2	1:-1:A:VAL:HG23	10	0.37
(2,3744)	1:87:A:VAL:HG21	1:84:A:GLU:HB2	17	0.37
(2,3726)	1:89:A:VAL:HG23	1:78:A:ARG:HA	8	0.37
(2,3707)	1:92:A:LEU:HD21	1:78:A:ARG:H	7	0.37
(2,3703)	1:92:A:LEU:HD13	1:78:A:ARG:HB2	7	0.37
(2,3703)	1:92:A:LEU:HD12	1:75:A:GLU:HG3	11	0.37
(2,3690)	1:150:A:ILE:HD11	1:143:A:MET:HG3	3	0.37
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD12	11	0.37
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	4	0.37
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	11	0.37
(2,3662)	1:64:A:GLU:HA	1:63:A:LYS:HB2	1	0.37
(2,3662)	1:64:A:GLU:HA	1:54:A:LYS:HB2	8	0.37
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	7	0.37
(2,3620)	1:42:A:GLY:HA3	1:43:A:ARG:HA	15	0.37
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG23	14	0.37
(2,3278)	1:66:A:THR:HG22	1:66:A:THR:H	15	0.37
(2,3045)	1:14:A:LYS:H	1:14:A:LYS:HG3	13	0.37
(2,3024)	1:11:A:LEU:HD13	1:10:A:ARG:H	20	0.37
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD22	3	0.37
(2,2935)	1:114:A:PHE:H	1:114:A:PHE:HE2	8	0.37
(2,2913)	1:115:A:ILE:HD13	1:37:A:GLN:H	2	0.37
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	10	0.37
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	17	0.37
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	18	0.37
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG23	15	0.37
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD12	11	0.37
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	11	0.37
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	4	0.37
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	7	0.37
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	12	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	3	0.37
(2,2444)	1:67:A:VAL:HG12	1:68:A:ARG:H	9	0.37
(2,2408)	1:115:A:ILE:HG22	1:116:A:GLU:HG2	3	0.37
(2,2373)	1:33:A:VAL:HG22	1:49:A:TYR:HE1	3	0.37
(2,2367)	1:143:A:MET:HA	1:142:A:HIS:HB2	14	0.37
(2,2346)	1:88:A:VAL:HG12	1:90:A:PRO:HD2	2	0.37
(2,2346)	1:88:A:VAL:HG11	1:90:A:PRO:HD2	5	0.37
(2,2346)	1:88:A:VAL:HG12	1:90:A:PRO:HD2	6	0.37
(2,2346)	1:88:A:VAL:HG13	1:90:A:PRO:HD2	11	0.37
(2,2346)	1:88:A:VAL:HG13	1:90:A:PRO:HD2	19	0.37
(2,2338)	1:29:A:LEU:HD23	1:130:A:ALA:H	9	0.37
(2,2307)	1:41:A:VAL:HG23	1:44:A:GLY:H	2	0.37
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG23	1	0.37
(2,2270)	1:145:A:LEU:HD11	1:144:A:PHE:HD2	10	0.37
(2,2264)	1:134:A:LEU:HD11	1:133:A:PRO:HA	8	0.37
(2,2264)	1:134:A:LEU:HD13	1:133:A:PRO:HA	20	0.37
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG21	4	0.37
(2,2228)	1:89:A:VAL:HG21	1:82:A:GLU:HB2	5	0.37
(2,2228)	1:89:A:VAL:HG21	1:82:A:GLU:HB2	9	0.37
(2,2228)	1:89:A:VAL:HG21	1:82:A:GLU:HB2	10	0.37
(2,2228)	1:89:A:VAL:HG23	1:82:A:GLU:HB2	13	0.37
(2,2228)	1:89:A:VAL:HG21	1:82:A:GLU:HB2	14	0.37
(2,2212)	1:77:A:LEU:HD11	1:144:A:PHE:HZ	5	0.37
(2,2210)	1:77:A:LEU:HD11	1:144:A:PHE:HD2	9	0.37
(2,2197)	1:126:A:ILE:HD13	1:77:A:LEU:HD12	1	0.37
(2,2095)	1:134:A:LEU:HD21	1:88:A:VAL:H	20	0.37
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	20	0.37
(2,1972)	1:157:A:SER:HB3	1:158:A:LYS:HG2	5	0.37
(2,1972)	1:157:A:SER:HB3	1:158:A:LYS:HG2	9	0.37
(2,1951)	1:38:A:THR:HG22	1:110:A:PHE:HE2	9	0.37
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	2	0.37
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	9	0.37
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	6	0.37
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	7	0.37
(2,1634)	1:156:A:PRO:HA	1:154:A:TYR:HE2	9	0.37
(2,1613)	1:50:A:GLU:HG2	1:68:A:ARG:HG3	3	0.37
(2,1611)	1:66:A:THR:HG22	1:50:A:GLU:HB2	8	0.37
(2,1566)	1:64:A:GLU:HB3	1:64:A:GLU:H	9	0.37
(2,1520)	1:57:A:LEU:HD12	1:60:A:PHE:H	2	0.37
(2,1520)	1:57:A:LEU:HD12	1:60:A:PHE:H	6	0.37
(2,1520)	1:57:A:LEU:HD12	1:60:A:PHE:H	12	0.37
(2,1520)	1:57:A:LEU:HD13	1:60:A:PHE:H	17	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1520)	1:57:A:LEU:HD13	1:60:A:PHE:H	18	0.37
(2,1489)	1:29:A:LEU:HD12	1:55:A:THR:HA	15	0.37
(2,1380)	1:135:A:ALA:HB3	1:141:A:LEU:HD21	14	0.37
(2,1376)	1:96:A:ALA:HB2	1:97:A:PHE:HZ	16	0.37
(2,1376)	1:96:A:ALA:HB3	1:97:A:PHE:HZ	20	0.37
(2,1370)	1:21:A:ALA:HB2	1:20:A:ASP:H	19	0.37
(2,1336)	1:59:A:ILE:HG21	1:61:A:LYS:H	6	0.37
(2,1336)	1:59:A:ILE:HG23	1:61:A:LYS:H	18	0.37
(2,1335)	1:59:A:ILE:HG23	1:57:A:LEU:H	1	0.37
(2,1310)	1:149:A:ILE:HG21	1:148:A:GLU:H	12	0.37
(2,1276)	1:115:A:ILE:HD13	1:114:A:PHE:HD2	4	0.37
(2,1233)	1:81:A:LEU:HD12	1:81:A:LEU:H	10	0.37
(2,1233)	1:81:A:LEU:HD11	1:81:A:LEU:H	12	0.37
(2,1116)	1:149:A:ILE:HD11	1:148:A:GLU:HA	12	0.37
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD12	14	0.37
(2,1103)	1:57:A:LEU:HD22	1:27:A:ASN:HB3	3	0.37
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	8	0.37
(2,1057)	1:159:A:ILE:HD12	1:159:A:ILE:H	17	0.37
(2,1057)	1:159:A:ILE:HD13	1:159:A:ILE:H	18	0.37
(2,1056)	1:159:A:ILE:HD11	1:139:A:ARG:H	5	0.37
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG22	19	0.37
(2,917)	1:109:A:ILE:HG23	1:110:A:PHE:H	3	0.37
(2,917)	1:109:A:ILE:HG21	1:110:A:PHE:H	9	0.37
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG21	1	0.37
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG23	6	0.37
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG22	9	0.37
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG21	10	0.37
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG21	13	0.37
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG23	15	0.37
(2,863)	1:115:A:ILE:HD12	1:114:A:PHE:HB3	4	0.37
(2,847)	1:115:A:ILE:HD12	1:115:A:ILE:H	10	0.37
(2,847)	1:115:A:ILE:HD11	1:115:A:ILE:H	13	0.37
(2,847)	1:115:A:ILE:HD11	1:115:A:ILE:H	19	0.37
(2,748)	1:122:A:LEU:HD23	1:122:A:LEU:H	3	0.37
(2,598)	1:129:A:VAL:HG13	1:125:A:PHE:HD1	20	0.37
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	10	0.37
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	18	0.37
(2,542)	1:143:A:MET:HE3	1:154:A:TYR:HE1	4	0.37
(2,539)	1:143:A:MET:HE3	1:154:A:TYR:H	1	0.37
(2,539)	1:143:A:MET:HE3	1:154:A:TYR:H	4	0.37
(2,525)	1:122:A:LEU:HD13	1:122:A:LEU:H	7	0.37
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG22	5	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,508)	1:39:A:VAL:HG11	1:39:A:VAL:HG22	12	0.37
(2,508)	1:39:A:VAL:HG13	1:39:A:VAL:HG22	19	0.37
(2,495)	1:126:A:ILE:HG23	1:31:A:ILE:HD13	2	0.37
(2,479)	1:53:A:VAL:HG22	1:55:A:THR:HG23	1	0.37
(2,428)	1:13:A:THR:HG22	1:12:A:ILE:H	9	0.37
(2,375)	1:89:A:VAL:HG21	1:78:A:ARG:HG3	2	0.37
(2,375)	1:89:A:VAL:HG21	1:78:A:ARG:HG3	9	0.37
(2,355)	1:89:A:VAL:HG11	1:129:A:VAL:H	19	0.37
(2,312)	1:92:A:LEU:HD23	1:74:A:PHE:HA	10	0.37
(2,312)	1:92:A:LEU:HD23	1:74:A:PHE:HA	14	0.37
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD21	3	0.37
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD21	16	0.37
(2,243)	1:150:A:ILE:HD12	1:150:A:ILE:H	20	0.37
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE1	5	0.37
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	2	0.37
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	7	0.37
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	12	0.37
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	14	0.37
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	10	0.37
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	19	0.37
(2,4981)	1:89:A:VAL:H	1:128:A:LYS:HB2	7	0.36
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	11	0.36
(2,4981)	1:89:A:VAL:H	1:128:A:LYS:HB2	20	0.36
(2,4973)	1:59:A:ILE:HD12	1:137:A:ASN:HD21	10	0.36
(2,4954)	1:100:A:GLN:HG3	1:100:A:GLN:HE22	1	0.36
(2,4954)	1:100:A:GLN:HG3	1:100:A:GLN:HE22	16	0.36
(2,4954)	1:100:A:GLN:HG3	1:100:A:GLN:HE22	19	0.36
(2,4945)	1:77:A:LEU:HD21	1:142:A:HIS:H	8	0.36
(2,4852)	1:97:A:PHE:HB3	1:96:A:ALA:H	5	0.36
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	12	0.36
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	19	0.36
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	2	0.36
(2,4727)	1:33:A:VAL:HG22	1:50:A:GLU:H	19	0.36
(2,4726)	1:50:A:GLU:H	1:68:A:ARG:HG3	17	0.36
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	12	0.36
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	14	0.36
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	20	0.36
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD13	10	0.36
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	3	0.36
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	15	0.36
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	17	0.36
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	3	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	20	0.36
(2,4623)	1:134:A:LEU:HD22	1:88:A:VAL:H	1	0.36
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	15	0.36
(2,4616)	1:85:A:SER:H	1:82:A:GLU:HB2	6	0.36
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG22	8	0.36
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	9	0.36
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	18	0.36
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	2	0.36
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	15	0.36
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	16	0.36
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	5	0.36
(2,4516)	1:72:A:SER:HB2	1:75:A:GLU:H	6	0.36
(2,4516)	1:72:A:SER:HB2	1:75:A:GLU:H	16	0.36
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	2	0.36
(2,4485)	1:95:A:LYS:HE3	1:95:A:LYS:HG3	6	0.36
(2,4480)	1:92:A:LEU:HD12	1:76:A:TRP:H	9	0.36
(2,4480)	1:92:A:LEU:HD13	1:76:A:TRP:H	17	0.36
(2,4473)	1:77:A:LEU:HD11	1:144:A:PHE:HB2	17	0.36
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	14	0.36
(2,4437)	1:31:A:ILE:HG21	1:53:A:VAL:HG11	17	0.36
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG2	1	0.36
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG3	15	0.36
(2,4398)	1:62:A:LEU:HD13	1:61:A:LYS:HD2	16	0.36
(2,4378)	1:58:A:PRO:HA	1:60:A:PHE:H	9	0.36
(2,4335)	1:59:A:ILE:HG21	1:141:A:LEU:HB3	7	0.36
(2,4335)	1:59:A:ILE:HG22	1:141:A:LEU:HB3	18	0.36
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD22	12	0.36
(2,4327)	1:33:A:VAL:HG21	1:122:A:LEU:H	19	0.36
(2,4290)	1:54:A:LYS:HE2	1:64:A:GLU:HB2	12	0.36
(2,4265)	1:68:A:ARG:HD3	1:68:A:ARG:H	6	0.36
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	10	0.36
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB3	4	0.36
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	10	0.36
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	6	0.36
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	9	0.36
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	12	0.36
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	13	0.36
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	14	0.36
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	15	0.36
(2,4223)	1:24:A:PRO:HG3	1:24:A:PRO:HD3	18	0.36
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	9	0.36
(2,4183)	1:129:A:VAL:HG13	1:141:A:LEU:HD11	10	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4183)	1:129:A:VAL:HG11	1:141:A:LEU:HD13	14	0.36
(2,4158)	1:57:A:LEU:HD11	1:57:A:LEU:HA	7	0.36
(2,4158)	1:57:A:LEU:HD13	1:57:A:LEU:HA	11	0.36
(2,4158)	1:57:A:LEU:HD12	1:57:A:LEU:HA	12	0.36
(2,4158)	1:57:A:LEU:HD12	1:57:A:LEU:HA	13	0.36
(2,4158)	1:57:A:LEU:HD13	1:57:A:LEU:HA	14	0.36
(2,4158)	1:57:A:LEU:HD13	1:57:A:LEU:HA	18	0.36
(2,4157)	1:57:A:LEU:HA	1:58:A:PRO:HG3	1	0.36
(2,4157)	1:57:A:LEU:HA	1:58:A:PRO:HG3	13	0.36
(2,4141)	1:64:A:GLU:HG2	1:55:A:THR:H	15	0.36
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	17	0.36
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	20	0.36
(2,4122)	1:33:A:VAL:HG12	1:144:A:PHE:HE2	10	0.36
(2,4110)	1:96:A:ALA:HB1	1:97:A:PHE:HB3	11	0.36
(2,4110)	1:96:A:ALA:HB2	1:97:A:PHE:HB3	18	0.36
(2,4094)	1:115:A:ILE:HG21	1:119:A:LYS:H	15	0.36
(2,4071)	1:81:A:LEU:HD11	1:141:A:LEU:H	4	0.36
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD11	2	0.36
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD23	3	0.36
(2,4022)	1:18:A:LEU:HD21	1:18:A:LEU:HG	7	0.36
(2,4022)	1:11:A:LEU:HG	1:11:A:LEU:HD21	13	0.36
(2,4022)	1:18:A:LEU:HD23	1:18:A:LEU:HG	14	0.36
(2,4021)	1:18:A:LEU:HD11	1:18:A:LEU:HG	5	0.36
(2,4021)	1:18:A:LEU:HD12	1:18:A:LEU:HG	6	0.36
(2,4021)	1:18:A:LEU:HD13	1:18:A:LEU:HG	8	0.36
(2,4021)	1:11:A:LEU:HG	1:11:A:LEU:HD11	10	0.36
(2,4021)	1:18:A:LEU:HD12	1:18:A:LEU:HG	12	0.36
(2,4021)	1:18:A:LEU:HD12	1:18:A:LEU:HG	14	0.36
(2,4021)	1:18:A:LEU:HD13	1:18:A:LEU:HG	15	0.36
(2,4021)	1:18:A:LEU:HD13	1:18:A:LEU:HG	16	0.36
(2,4021)	1:11:A:LEU:HG	1:11:A:LEU:HD13	17	0.36
(2,4021)	1:11:A:LEU:HG	1:11:A:LEU:HD11	20	0.36
(2,3984)	1:104:A:ARG:HD2	1:104:A:ARG:HA	12	0.36
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	19	0.36
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	11	0.36
(2,3869)	1:158:A:LYS:HD2	1:137:A:ASN:HD21	12	0.36
(2,3869)	1:158:A:LYS:HD2	1:137:A:ASN:HD21	13	0.36
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	20	0.36
(2,3849)	1:53:A:VAL:HG23	1:55:A:THR:HG21	4	0.36
(2,3847)	1:159:A:ILE:HG21	1:136:A:GLN:HB2	5	0.36
(2,3844)	1:159:A:ILE:HG21	1:139:A:ARG:HA	2	0.36
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	1	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	7	0.36
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE2	9	0.36
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	17	0.36
(2,3793)	1:130:A:ALA:HB2	1:126:A:ILE:HD11	1	0.36
(2,3793)	1:130:A:ALA:HB3	1:126:A:ILE:HD12	17	0.36
(2,3755)	1:48:A:THR:HG23	1:46:A:PHE:HB2	6	0.36
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	6	0.36
(2,3737)	1:87:A:VAL:HA	1:134:A:LEU:HG	11	0.36
(2,3728)	1:89:A:VAL:HG13	1:78:A:ARG:HG2	4	0.36
(2,3728)	1:89:A:VAL:HG13	1:78:A:ARG:HG2	6	0.36
(2,3728)	1:89:A:VAL:HG13	1:78:A:ARG:HG2	10	0.36
(2,3726)	1:89:A:VAL:HG21	1:78:A:ARG:HA	12	0.36
(2,3707)	1:92:A:LEU:HD22	1:78:A:ARG:H	3	0.36
(2,3691)	1:150:A:ILE:HD11	1:143:A:MET:HB2	12	0.36
(2,3691)	1:150:A:ILE:HD12	1:143:A:MET:HB2	15	0.36
(2,3684)	1:155:A:THR:HG22	1:156:A:PRO:HD2	4	0.36
(2,3676)	1:11:A:LEU:HA	1:12:A:ILE:H	13	0.36
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	14	0.36
(2,3662)	1:64:A:GLU:HA	1:54:A:LYS:HB2	2	0.36
(2,3658)	1:66:A:THR:HG22	1:52:A:ARG:HD2	1	0.36
(2,3658)	1:66:A:THR:HG21	1:52:A:ARG:HD2	20	0.36
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	2	0.36
(2,3615)	1:32:A:ASP:HB3	1:33:A:VAL:HB	11	0.36
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB3	4	0.36
(2,3301)	1:87:A:VAL:HG23	1:81:A:LEU:H	4	0.36
(2,3289)	1:150:A:ILE:HD13	1:73:A:ASP:H	8	0.36
(2,3289)	1:150:A:ILE:HD11	1:73:A:ASP:H	10	0.36
(2,3090)	1:23:A:GLY:H	1:21:A:ALA:HB2	12	0.36
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	5	0.36
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	13	0.36
(2,2979)	1:2:A:ALA:HB2	1:3:A:GLU:H	11	0.36
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD21	8	0.36
(2,2913)	1:115:A:ILE:HD12	1:37:A:GLN:H	8	0.36
(2,2913)	1:115:A:ILE:HD12	1:37:A:GLN:H	12	0.36
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	9	0.36
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	16	0.36
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG22	2	0.36
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	9	0.36
(2,2568)	1:108:A:GLY:H	1:107:A:ASP:HB3	17	0.36
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	6	0.36
(2,2354)	1:59:A:ILE:HD12	1:60:A:PHE:HZ	1	0.36
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	15	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2354)	1:59:A:ILE:HD12	1:60:A:PHE:HZ	18	0.36
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	19	0.36
(2,2346)	1:88:A:VAL:HG13	1:90:A:PRO:HD2	12	0.36
(2,2346)	1:88:A:VAL:HG13	1:90:A:PRO:HD2	13	0.36
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD12	13	0.36
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD13	15	0.36
(2,2231)	1:81:A:LEU:HD13	1:89:A:VAL:HG23	12	0.36
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG23	3	0.36
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG23	7	0.36
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG23	11	0.36
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG21	18	0.36
(2,2228)	1:89:A:VAL:HG21	1:82:A:GLU:HB2	6	0.36
(2,2212)	1:77:A:LEU:HD12	1:144:A:PHE:HZ	12	0.36
(2,2095)	1:134:A:LEU:HD23	1:88:A:VAL:H	2	0.36
(2,2045)	1:51:A:ILE:HG12	1:33:A:VAL:HA	11	0.36
(2,2017)	1:134:A:LEU:HD11	1:137:A:ASN:HB2	18	0.36
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	8	0.36
(2,1919)	1:33:A:VAL:HG22	1:49:A:TYR:HB2	15	0.36
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG23	5	0.36
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG23	2	0.36
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG21	11	0.36
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG23	16	0.36
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	6	0.36
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	18	0.36
(2,1679)	1:126:A:ILE:HG22	1:31:A:ILE:HG22	15	0.36
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	12	0.36
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG23	7	0.36
(2,1611)	1:66:A:THR:HG23	1:50:A:GLU:HB2	10	0.36
(2,1611)	1:66:A:THR:HG23	1:50:A:GLU:HB2	19	0.36
(2,1590)	1:129:A:VAL:HG21	1:141:A:LEU:HD13	19	0.36
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	7	0.36
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	14	0.36
(2,1520)	1:57:A:LEU:HD13	1:60:A:PHE:H	4	0.36
(2,1520)	1:57:A:LEU:HD13	1:60:A:PHE:H	11	0.36
(2,1489)	1:29:A:LEU:HD11	1:55:A:THR:HA	4	0.36
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	9	0.36
(2,1401)	1:39:A:VAL:HG21	1:46:A:PHE:HE2	20	0.36
(2,1376)	1:96:A:ALA:HB1	1:97:A:PHE:HZ	10	0.36
(2,1355)	1:51:A:ILE:HG22	1:32:A:ASP:H	8	0.36
(2,1336)	1:59:A:ILE:HG22	1:61:A:LYS:H	8	0.36
(2,1336)	1:59:A:ILE:HG21	1:61:A:LYS:H	16	0.36
(2,1312)	1:149:A:ILE:HG21	1:151:A:ASP:H	9	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1276)	1:115:A:ILE:HD11	1:114:A:PHE:HD2	12	0.36
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG22	3	0.36
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	1	0.36
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	2	0.36
(2,1116)	1:149:A:ILE:HD11	1:148:A:GLU:HA	7	0.36
(2,1116)	1:149:A:ILE:HD13	1:148:A:GLU:HA	10	0.36
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD13	15	0.36
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD13	20	0.36
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD12	4	0.36
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD13	18	0.36
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	20	0.36
(2,1057)	1:159:A:ILE:HD11	1:159:A:ILE:H	5	0.36
(2,1057)	1:159:A:ILE:HD11	1:159:A:ILE:H	15	0.36
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD12	11	0.36
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG21	9	0.36
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG22	1	0.36
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG21	17	0.36
(2,917)	1:109:A:ILE:HG22	1:110:A:PHE:H	12	0.36
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG23	2	0.36
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG22	11	0.36
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG21	17	0.36
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG21	19	0.36
(2,863)	1:115:A:ILE:HD13	1:114:A:PHE:HB3	20	0.36
(2,847)	1:115:A:ILE:HD11	1:115:A:ILE:H	3	0.36
(2,847)	1:115:A:ILE:HD13	1:115:A:ILE:H	11	0.36
(2,847)	1:115:A:ILE:HD13	1:115:A:ILE:H	12	0.36
(2,763)	1:36:A:PRO:HG3	1:115:A:ILE:HD12	20	0.36
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	14	0.36
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	8	0.36
(2,618)	1:89:A:VAL:HG23	1:129:A:VAL:HG12	18	0.36
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	3	0.36
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	8	0.36
(2,542)	1:143:A:MET:HE3	1:154:A:TYR:HE1	9	0.36
(2,525)	1:122:A:LEU:HD11	1:122:A:LEU:H	9	0.36
(2,508)	1:39:A:VAL:HG11	1:39:A:VAL:HG23	14	0.36
(2,461)	1:48:A:THR:HG22	1:68:A:ARG:HG2	4	0.36
(2,461)	1:48:A:THR:HG22	1:68:A:ARG:HG2	12	0.36
(2,375)	1:89:A:VAL:HG23	1:78:A:ARG:HG3	3	0.36
(2,368)	1:82:A:GLU:HA	1:89:A:VAL:HG22	1	0.36
(2,355)	1:89:A:VAL:HG13	1:129:A:VAL:H	2	0.36
(2,355)	1:89:A:VAL:HG11	1:129:A:VAL:H	5	0.36
(2,355)	1:89:A:VAL:HG13	1:129:A:VAL:H	11	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,355)	1:89:A:VAL:HG12	1:129:A:VAL:H	20	0.36
(2,306)	1:92:A:LEU:HD23	1:75:A:GLU:H	2	0.36
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD23	5	0.36
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG21	19	0.36
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	5	0.36
(2,151)	1:66:A:THR:HG22	1:50:A:GLU:H	13	0.36
(2,151)	1:66:A:THR:HG22	1:50:A:GLU:H	17	0.36
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	8	0.36
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	1	0.35
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	9	0.35
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	17	0.35
(2,4954)	1:100:A:GLN:HG3	1:100:A:GLN:HE22	10	0.35
(2,4931)	1:139:A:ARG:H	1:159:A:ILE:HG22	11	0.35
(2,4931)	1:139:A:ARG:H	1:159:A:ILE:HG23	15	0.35
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	1	0.35
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	18	0.35
(2,4801)	1:31:A:ILE:HG22	1:31:A:ILE:H	10	0.35
(2,4801)	1:31:A:ILE:HG21	1:31:A:ILE:H	15	0.35
(2,4787)	1:56:A:ASN:HD22	1:24:A:PRO:HG2	20	0.35
(2,4782)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	1	0.35
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG3	3	0.35
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG2	15	0.35
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	6	0.35
(2,4749)	1:34:A:SER:H	1:33:A:VAL:HG23	11	0.35
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	7	0.35
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	1	0.35
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	7	0.35
(2,4702)	1:64:A:GLU:HB2	1:64:A:GLU:H	3	0.35
(2,4696)	1:45:A:ARG:H	1:46:A:PHE:HD1	3	0.35
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	3	0.35
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	14	0.35
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	10	0.35
(2,4680)	1:137:A:ASN:H	1:134:A:LEU:HB3	9	0.35
(2,4668)	1:157:A:SER:H	1:139:A:ARG:HG3	8	0.35
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	17	0.35
(2,4623)	1:134:A:LEU:HD23	1:88:A:VAL:H	12	0.35
(2,4623)	1:134:A:LEU:HD21	1:88:A:VAL:H	13	0.35
(2,4623)	1:134:A:LEU:HD21	1:88:A:VAL:H	19	0.35
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	3	0.35
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD23	6	0.35
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG21	5	0.35
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	1	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	6	0.35
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	18	0.35
(2,4541)	1:146:A:GLN:HG3	1:143:A:MET:HA	8	0.35
(2,4541)	1:146:A:GLN:HG3	1:143:A:MET:HA	10	0.35
(2,4533)	1:88:A:VAL:HG22	1:90:A:PRO:HB2	5	0.35
(2,4533)	1:88:A:VAL:HG23	1:90:A:PRO:HB2	12	0.35
(2,4533)	1:88:A:VAL:HG21	1:90:A:PRO:HB2	14	0.35
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	17	0.35
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	9	0.35
(2,4480)	1:92:A:LEU:HD11	1:76:A:TRP:H	15	0.35
(2,4454)	1:52:A:ARG:HB2	1:51:A:ILE:HG23	12	0.35
(2,4454)	1:52:A:ARG:HB2	1:51:A:ILE:HG22	16	0.35
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	1	0.35
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	12	0.35
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	10	0.35
(2,4398)	1:62:A:LEU:HD11	1:61:A:LYS:HD2	9	0.35
(2,4396)	1:61:A:LYS:HD3	1:61:A:LYS:HA	1	0.35
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	12	0.35
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	18	0.35
(2,4375)	1:43:A:ARG:HB3	1:43:A:ARG:HD3	15	0.35
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD12	9	0.35
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG21	15	0.35
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG23	18	0.35
(2,4350)	1:130:A:ALA:HB2	1:145:A:LEU:HD22	6	0.35
(2,4319)	1:115:A:ILE:HG21	1:118:A:ARG:HB3	10	0.35
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD13	5	0.35
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	2	0.35
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD2	5	0.35
(2,4281)	1:85:A:SER:HB2	1:84:A:GLU:HA	9	0.35
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	8	0.35
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	14	0.35
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	15	0.35
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	17	0.35
(2,4218)	1:93:A:PRO:HA	1:93:A:PRO:HG2	16	0.35
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	11	0.35
(2,4183)	1:129:A:VAL:HG11	1:141:A:LEU:HD13	3	0.35
(2,4183)	1:129:A:VAL:HG11	1:141:A:LEU:HD12	9	0.35
(2,4183)	1:129:A:VAL:HG13	1:141:A:LEU:HD12	11	0.35
(2,4183)	1:129:A:VAL:HG13	1:141:A:LEU:HD13	15	0.35
(2,4182)	1:136:A:GLN:HG2	1:141:A:LEU:HD13	14	0.35
(2,4158)	1:57:A:LEU:HD12	1:57:A:LEU:HA	1	0.35
(2,4158)	1:57:A:LEU:HD12	1:57:A:LEU:HA	5	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4158)	1:57:A:LEU:HD12	1:57:A:LEU:HA	6	0.35
(2,4158)	1:57:A:LEU:HD13	1:57:A:LEU:HA	8	0.35
(2,4158)	1:57:A:LEU:HD12	1:57:A:LEU:HA	15	0.35
(2,4158)	1:57:A:LEU:HD11	1:57:A:LEU:HA	16	0.35
(2,4158)	1:57:A:LEU:HD11	1:57:A:LEU:HA	17	0.35
(2,4122)	1:33:A:VAL:HG12	1:144:A:PHE:HE1	2	0.35
(2,4122)	1:33:A:VAL:HG12	1:144:A:PHE:HE1	6	0.35
(2,4122)	1:33:A:VAL:HG13	1:144:A:PHE:HE1	14	0.35
(2,4110)	1:96:A:ALA:HB2	1:97:A:PHE:HB3	6	0.35
(2,4110)	1:96:A:ALA:HB3	1:97:A:PHE:HB3	17	0.35
(2,4102)	1:51:A:ILE:HG23	1:53:A:VAL:HB	1	0.35
(2,4042)	1:45:A:ARG:HD2	1:41:A:VAL:HA	5	0.35
(2,4030)	1:152:A:LYS:HD2	1:76:A:TRP:HD1	17	0.35
(2,4022)	1:11:A:LEU:HG	1:11:A:LEU:HD23	4	0.35
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD21	11	0.35
(2,4022)	1:11:A:LEU:HG	1:11:A:LEU:HD23	15	0.35
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD22	16	0.35
(2,4022)	1:18:A:LEU:HD22	1:18:A:LEU:HG	17	0.35
(2,4022)	1:11:A:LEU:HG	1:11:A:LEU:HD21	18	0.35
(2,4022)	1:11:A:LEU:HG	1:11:A:LEU:HD22	20	0.35
(2,4021)	1:18:A:LEU:HD11	1:18:A:LEU:HG	1	0.35
(2,4021)	1:18:A:LEU:HD11	1:18:A:LEU:HG	7	0.35
(2,4021)	1:18:A:LEU:HD11	1:18:A:LEU:HG	9	0.35
(2,4021)	1:11:A:LEU:HG	1:11:A:LEU:HD11	11	0.35
(2,4021)	1:18:A:LEU:HD12	1:18:A:LEU:HG	18	0.35
(2,4021)	1:11:A:LEU:HG	1:11:A:LEU:HD13	19	0.35
(2,3984)	1:104:A:ARG:HD3	1:104:A:ARG:HA	20	0.35
(2,3955)	1:110:A:PHE:HB3	1:110:A:PHE:HE2	4	0.35
(2,3942)	1:115:A:ILE:HG21	1:119:A:LYS:HE2	2	0.35
(2,3929)	1:117:A:GLU:HA	1:116:A:GLU:HA	14	0.35
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	1	0.35
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	8	0.35
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	17	0.35
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	12	0.35
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	3	0.35
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG23	10	0.35
(2,3869)	1:158:A:LYS:HD2	1:137:A:ASN:HD21	18	0.35
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	12	0.35
(2,3849)	1:55:A:THR:HG21	1:29:A:LEU:HD13	20	0.35
(2,3847)	1:159:A:ILE:HG21	1:136:A:GLN:HB2	9	0.35
(2,3847)	1:159:A:ILE:HG22	1:136:A:GLN:HB2	10	0.35
(2,3821)	1:128:A:LYS:HD2	1:128:A:LYS:HE3	12	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	15	0.35
(2,3795)	1:130:A:ALA:HB3	1:60:A:PHE:HE2	7	0.35
(2,3793)	1:130:A:ALA:HB1	1:145:A:LEU:HD11	18	0.35
(2,3783)	1:143:A:MET:HE3	1:143:A:MET:HB3	15	0.35
(2,3763)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	9	0.35
(2,3755)	1:48:A:THR:HG21	1:46:A:PHE:HB2	18	0.35
(2,3737)	1:87:A:VAL:HA	1:134:A:LEU:HG	20	0.35
(2,3726)	1:89:A:VAL:HG21	1:78:A:ARG:HA	2	0.35
(2,3726)	1:89:A:VAL:HG22	1:78:A:ARG:HA	17	0.35
(2,3707)	1:92:A:LEU:HD22	1:78:A:ARG:H	6	0.35
(2,3703)	1:92:A:LEU:HD12	1:75:A:GLU:HG3	1	0.35
(2,3703)	1:92:A:LEU:HD12	1:78:A:ARG:HB2	6	0.35
(2,3702)	1:92:A:LEU:HD23	1:75:A:GLU:HG2	9	0.35
(2,3684)	1:155:A:THR:HG23	1:156:A:PRO:HD2	8	0.35
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD11	7	0.35
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	2	0.35
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	6	0.35
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	8	0.35
(2,3662)	1:64:A:GLU:HA	1:63:A:LYS:HB2	18	0.35
(2,3631)	1:82:A:GLU:HA	1:81:A:LEU:HA	19	0.35
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	10	0.35
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	11	0.35
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG22	20	0.35
(2,3523)	1:162:A:ALA:HB2	1:162:A:ALA:H	12	0.35
(2,3466)	1:136:A:GLN:HE22	1:136:A:GLN:H	10	0.35
(2,3289)	1:150:A:ILE:HD11	1:73:A:ASP:H	14	0.35
(2,3278)	1:66:A:THR:HG22	1:66:A:THR:H	2	0.35
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	8	0.35
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	3	0.35
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	6	0.35
(2,3042)	1:14:A:LYS:H	1:14:A:LYS:HD3	8	0.35
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD21	20	0.35
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	13	0.35
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG21	3	0.35
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD13	18	0.35
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	2	0.35
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB3	12	0.35
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	2	0.35
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	11	0.35
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	13	0.35
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	16	0.35
(2,2611)	1:150:A:ILE:HD11	1:144:A:PHE:H	18	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	3	0.35
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	13	0.35
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	16	0.35
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	20	0.35
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	5	0.35
(2,2354)	1:59:A:ILE:HD13	1:60:A:PHE:HZ	2	0.35
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	5	0.35
(2,2354)	1:59:A:ILE:HD13	1:60:A:PHE:HZ	13	0.35
(2,2338)	1:29:A:LEU:HD21	1:130:A:ALA:H	4	0.35
(2,2312)	1:77:A:LEU:HD22	1:144:A:PHE:HZ	3	0.35
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG23	8	0.35
(2,2288)	1:162:A:ALA:HB3	1:161:A:HIS:HB2	13	0.35
(2,2264)	1:134:A:LEU:HD11	1:133:A:PRO:HA	13	0.35
(2,2258)	1:130:A:ALA:HB3	1:136:A:GLN:HE22	14	0.35
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD12	14	0.35
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG21	9	0.35
(2,2228)	1:89:A:VAL:HG23	1:82:A:GLU:HB2	16	0.35
(2,2212)	1:77:A:LEU:HD12	1:144:A:PHE:HZ	13	0.35
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	4	0.35
(2,2204)	1:65:A:SER:HB3	1:62:A:LEU:HG	6	0.35
(2,2197)	1:126:A:ILE:HD12	1:77:A:LEU:HD11	19	0.35
(2,2142)	1:31:A:ILE:HG23	1:33:A:VAL:HG13	20	0.35
(2,2017)	1:134:A:LEU:HD11	1:137:A:ASN:HB2	1	0.35
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG21	4	0.35
(2,1843)	1:23:A:GLY:HA2	1:24:A:PRO:HD3	19	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG23	1	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG21	4	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG21	5	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG23	8	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG23	9	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG21	10	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG22	12	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG23	14	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG21	15	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG21	18	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG21	19	0.35
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG23	20	0.35
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG11	6	0.35
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG12	7	0.35
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG12	9	0.35
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG12	13	0.35
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG13	14	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG13	17	0.35
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG13	20	0.35
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	10	0.35
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	14	0.35
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	19	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	2	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	3	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	4	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	5	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	7	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	9	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	10	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	11	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	12	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	14	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	15	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	16	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	17	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	18	0.35
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	20	0.35
(2,1671)	1:31:A:ILE:HG23	1:127:A:ASN:HD21	16	0.35
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	5	0.35
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG21	2	0.35
(2,1612)	1:66:A:THR:HG22	1:50:A:GLU:HB3	17	0.35
(2,1611)	1:66:A:THR:HG21	1:50:A:GLU:HB2	18	0.35
(2,1590)	1:129:A:VAL:HG21	1:141:A:LEU:HD11	1	0.35
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	15	0.35
(2,1566)	1:64:A:GLU:HB3	1:64:A:GLU:H	13	0.35
(2,1525)	1:57:A:LEU:HD13	1:29:A:LEU:HA	2	0.35
(2,1525)	1:57:A:LEU:HD11	1:29:A:LEU:HA	20	0.35
(2,1520)	1:57:A:LEU:HD12	1:60:A:PHE:H	1	0.35
(2,1520)	1:57:A:LEU:HD13	1:60:A:PHE:H	20	0.35
(2,1384)	1:135:A:ALA:HB2	1:137:A:ASN:H	3	0.35
(2,1376)	1:96:A:ALA:HB3	1:97:A:PHE:HZ	1	0.35
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB2	1	0.35
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB1	2	0.35
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB1	6	0.35
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB2	11	0.35
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB1	12	0.35
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB3	15	0.35
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB1	16	0.35
(2,1362)	1:135:A:ALA:HB3	1:132:A:HIS:HB2	11	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1360)	1:6:A:ALA:HB1	1:6:A:ALA:HA	20	0.35
(2,1355)	1:51:A:ILE:HG23	1:32:A:ASP:H	6	0.35
(2,1355)	1:51:A:ILE:HG22	1:32:A:ASP:H	17	0.35
(2,1336)	1:59:A:ILE:HG22	1:61:A:LYS:H	2	0.35
(2,1336)	1:59:A:ILE:HG21	1:61:A:LYS:H	5	0.35
(2,1336)	1:59:A:ILE:HG21	1:61:A:LYS:H	11	0.35
(2,1336)	1:59:A:ILE:HG21	1:61:A:LYS:H	17	0.35
(2,1336)	1:59:A:ILE:HG21	1:61:A:LYS:H	19	0.35
(2,1335)	1:59:A:ILE:HG21	1:57:A:LEU:H	17	0.35
(2,1328)	1:115:A:ILE:HG23	1:114:A:PHE:HE2	6	0.35
(2,1310)	1:149:A:ILE:HG21	1:148:A:GLU:H	15	0.35
(2,1277)	1:126:A:ILE:HD12	1:126:A:ILE:H	8	0.35
(2,1277)	1:126:A:ILE:HD11	1:126:A:ILE:H	12	0.35
(2,1277)	1:126:A:ILE:HD12	1:126:A:ILE:H	16	0.35
(2,1276)	1:115:A:ILE:HD13	1:114:A:PHE:HD2	1	0.35
(2,1276)	1:115:A:ILE:HD13	1:114:A:PHE:HD2	10	0.35
(2,1258)	1:152:A:LYS:HG3	1:150:A:ILE:HG23	11	0.35
(2,1233)	1:81:A:LEU:HD13	1:81:A:LEU:H	14	0.35
(2,1233)	1:81:A:LEU:HD13	1:81:A:LEU:H	18	0.35
(2,1147)	1:122:A:LEU:HD13	1:93:A:PRO:HB3	3	0.35
(2,1147)	1:122:A:LEU:HD11	1:93:A:PRO:HB3	5	0.35
(2,1116)	1:149:A:ILE:HD13	1:148:A:GLU:HA	15	0.35
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD13	10	0.35
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD11	19	0.35
(2,1103)	1:57:A:LEU:HD21	1:27:A:ASN:HB3	13	0.35
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	2	0.35
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	11	0.35
(2,1057)	1:159:A:ILE:HD12	1:159:A:ILE:H	2	0.35
(2,1057)	1:159:A:ILE:HD11	1:159:A:ILE:H	7	0.35
(2,1057)	1:159:A:ILE:HD12	1:159:A:ILE:H	12	0.35
(2,1057)	1:159:A:ILE:HD12	1:159:A:ILE:H	14	0.35
(2,1057)	1:159:A:ILE:HD11	1:159:A:ILE:H	20	0.35
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG23	4	0.35
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG23	14	0.35
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG23	5	0.35
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG21	11	0.35
(2,917)	1:109:A:ILE:HG23	1:110:A:PHE:H	20	0.35
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG21	3	0.35
(2,863)	1:115:A:ILE:HD11	1:114:A:PHE:HB3	7	0.35
(2,863)	1:115:A:ILE:HD12	1:114:A:PHE:HB3	10	0.35
(2,847)	1:115:A:ILE:HD12	1:115:A:ILE:H	1	0.35
(2,847)	1:115:A:ILE:HD11	1:115:A:ILE:H	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,847)	1:115:A:ILE:HD12	1:115:A:ILE:H	4	0.35
(2,847)	1:115:A:ILE:HD11	1:115:A:ILE:H	7	0.35
(2,847)	1:115:A:ILE:HD13	1:115:A:ILE:H	9	0.35
(2,847)	1:115:A:ILE:HD12	1:115:A:ILE:H	17	0.35
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	3	0.35
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	11	0.35
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	16	0.35
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	7	0.35
(2,525)	1:122:A:LEU:HD13	1:122:A:LEU:H	8	0.35
(2,525)	1:122:A:LEU:HD11	1:122:A:LEU:H	17	0.35
(2,508)	1:39:A:VAL:HG11	1:39:A:VAL:HG22	3	0.35
(2,508)	1:39:A:VAL:HG12	1:39:A:VAL:HG22	6	0.35
(2,495)	1:126:A:ILE:HG23	1:31:A:ILE:HD13	6	0.35
(2,375)	1:89:A:VAL:HG22	1:78:A:ARG:HG3	17	0.35
(2,375)	1:89:A:VAL:HG21	1:78:A:ARG:HG3	18	0.35
(2,310)	1:92:A:LEU:HD22	1:92:A:LEU:H	20	0.35
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD21	6	0.35
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD23	7	0.35
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD23	9	0.35
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG22	4	0.35
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	15	0.35
(2,16)	1:32:A:ASP:HB2	1:52:A:ARG:HB2	14	0.35
(2,4973)	1:137:A:ASN:HD21	1:159:A:ILE:HG21	17	0.34
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	2	0.34
(2,4945)	1:77:A:LEU:HD22	1:142:A:HIS:H	17	0.34
(2,4899)	1:124:A:GLN:HE22	1:121:A:GLY:HA2	7	0.34
(2,4899)	1:124:A:GLN:HE22	1:123:A:GLU:HA	20	0.34
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	16	0.34
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	7	0.34
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	19	0.34
(2,4801)	1:31:A:ILE:HG23	1:31:A:ILE:H	16	0.34
(2,4786)	1:56:A:ASN:HD21	1:58:A:PRO:HG3	2	0.34
(2,4782)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	5	0.34
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	9	0.34
(2,4782)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	11	0.34
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	12	0.34
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	13	0.34
(2,4782)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	14	0.34
(2,4782)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	16	0.34
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	17	0.34
(2,4774)	1:11:A:LEU:H	1:10:A:ARG:HD3	19	0.34
(2,4772)	1:10:A:ARG:H	1:9:A:ARG:HD3	3	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG2	4	0.34
(2,4760)	1:5:A:VAL:HG22	1:4:A:THR:H	9	0.34
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	1	0.34
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	11	0.34
(2,4727)	1:33:A:VAL:HG23	1:50:A:GLU:H	18	0.34
(2,4714)	1:101:A:LEU:HD21	1:101:A:LEU:H	3	0.34
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	19	0.34
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	8	0.34
(2,4701)	1:44:A:GLY:H	1:110:A:PHE:HE1	2	0.34
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD11	14	0.34
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	16	0.34
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	13	0.34
(2,4583)	1:109:A:ILE:HG13	1:108:A:GLY:HA2	9	0.34
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG23	10	0.34
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	4	0.34
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	8	0.34
(2,4534)	1:149:A:ILE:HG23	1:150:A:ILE:HG13	3	0.34
(2,4533)	1:88:A:VAL:HG23	1:90:A:PRO:HB2	7	0.34
(2,4533)	1:88:A:VAL:HG22	1:90:A:PRO:HB2	11	0.34
(2,4485)	1:95:A:LYS:HE3	1:95:A:LYS:HG3	17	0.34
(2,4480)	1:92:A:LEU:HD12	1:76:A:TRP:H	10	0.34
(2,4454)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	19	0.34
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	2	0.34
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	19	0.34
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	12	0.34
(2,4418)	1:77:A:LEU:HD11	1:144:A:PHE:H	10	0.34
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	8	0.34
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	11	0.34
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	12	0.34
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	13	0.34
(2,4401)	1:9:A:ARG:HD3	1:9:A:ARG:HG2	18	0.34
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	14	0.34
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD13	4	0.34
(2,4335)	1:59:A:ILE:HG22	1:141:A:LEU:HB3	3	0.34
(2,4303)	1:97:A:PHE:HA	1:96:A:ALA:HA	14	0.34
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	4	0.34
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	11	0.34
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD2	2	0.34
(2,4272)	1:80:A:GLU:HA	1:77:A:LEU:HA	14	0.34
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	1	0.34
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	7	0.34
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	11	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	13	0.34
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	10	0.34
(2,4177)	1:55:A:THR:HG21	1:63:A:LYS:HD2	5	0.34
(2,4158)	1:57:A:LEU:HD11	1:57:A:LEU:HA	9	0.34
(2,4158)	1:57:A:LEU:HD13	1:57:A:LEU:HA	10	0.34
(2,4141)	1:64:A:GLU:HG2	1:55:A:THR:H	2	0.34
(2,4141)	1:64:A:GLU:HG2	1:55:A:THR:H	7	0.34
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	6	0.34
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	14	0.34
(2,4110)	1:96:A:ALA:HB1	1:97:A:PHE:HB3	15	0.34
(2,4094)	1:115:A:ILE:HG21	1:119:A:LYS:H	6	0.34
(2,4071)	1:81:A:LEU:HD13	1:141:A:LEU:H	10	0.34
(2,4038)	1:45:A:ARG:HB2	1:38:A:THR:HG23	19	0.34
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD23	8	0.34
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD21	12	0.34
(2,4021)	1:18:A:LEU:HD11	1:18:A:LEU:HG	2	0.34
(2,4021)	1:18:A:LEU:HD13	1:18:A:LEU:HG	4	0.34
(2,4021)	1:18:A:LEU:HD12	1:18:A:LEU:HG	13	0.34
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	1	0.34
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	9	0.34
(2,3959)	1:109:A:ILE:HD11	1:110:A:PHE:HE1	15	0.34
(2,3947)	1:115:A:ILE:HG23	1:36:A:PRO:HG2	13	0.34
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	2	0.34
(2,3869)	1:158:A:LYS:HD2	1:137:A:ASN:HD21	15	0.34
(2,3849)	1:55:A:THR:HG23	1:29:A:LEU:HD12	6	0.34
(2,3844)	1:159:A:ILE:HG23	1:139:A:ARG:HA	19	0.34
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	2	0.34
(2,3826)	1:14:A:LYS:HE2	1:14:A:LYS:HG2	9	0.34
(2,3795)	1:130:A:ALA:HB2	1:131:A:GLY:H	8	0.34
(2,3763)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	12	0.34
(2,3744)	1:87:A:VAL:HG21	1:82:A:GLU:HG3	8	0.34
(2,3744)	1:87:A:VAL:HG21	1:82:A:GLU:HG3	13	0.34
(2,3737)	1:87:A:VAL:HA	1:134:A:LEU:HG	14	0.34
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	16	0.34
(2,3707)	1:92:A:LEU:HD21	1:78:A:ARG:H	8	0.34
(2,3707)	1:92:A:LEU:HD23	1:78:A:ARG:H	14	0.34
(2,3707)	1:92:A:LEU:HD23	1:78:A:ARG:H	19	0.34
(2,3703)	1:92:A:LEU:HD12	1:75:A:GLU:HG3	19	0.34
(2,3702)	1:92:A:LEU:HD21	1:75:A:GLU:HG2	15	0.34
(2,3691)	1:150:A:ILE:HD12	1:143:A:MET:HB2	10	0.34
(2,3684)	1:155:A:THR:HG23	1:156:A:PRO:HD2	15	0.34
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	15	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	20	0.34
(2,3657)	1:66:A:THR:HG22	1:68:A:ARG:H	11	0.34
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	6	0.34
(2,3616)	1:32:A:ASP:HB2	1:52:A:ARG:HG3	13	0.34
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB1	18	0.34
(2,3560)	1:122:A:LEU:HD13	1:121:A:GLY:H	13	0.34
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG23	3	0.34
(2,3466)	1:136:A:GLN:HE22	1:136:A:GLN:H	15	0.34
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	4	0.34
(2,3301)	1:87:A:VAL:HG21	1:81:A:LEU:H	12	0.34
(2,3201)	1:47:A:THR:H	1:46:A:PHE:HE2	3	0.34
(2,3201)	1:47:A:THR:H	1:46:A:PHE:HE2	18	0.34
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	12	0.34
(2,3019)	1:9:A:ARG:H	1:7:A:ASP:HB2	15	0.34
(2,3019)	1:9:A:ARG:H	1:7:A:ASP:HB2	16	0.34
(2,2979)	1:2:A:ALA:HB3	1:3:A:GLU:H	18	0.34
(2,2977)	1:3:A:GLU:HB2	1:3:A:GLU:H	9	0.34
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD23	1	0.34
(2,2938)	1:4:A:THR:HG23	1:5:A:VAL:H	17	0.34
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	11	0.34
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE2	12	0.34
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	14	0.34
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	15	0.34
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	19	0.34
(2,2713)	1:34:A:SER:HB2	1:35:A:ASN:HD22	14	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	1	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	3	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	5	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	6	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	7	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	8	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	10	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	12	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	15	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	17	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	18	0.34
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	20	0.34
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	8	0.34
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	14	0.34
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	15	0.34
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	14	0.34
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	18	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	20	0.34
(2,2444)	1:67:A:VAL:HG12	1:68:A:ARG:H	14	0.34
(2,2370)	1:145:A:LEU:HD22	1:136:A:GLN:HE22	1	0.34
(2,2370)	1:145:A:LEU:HD21	1:136:A:GLN:HE22	11	0.34
(2,2346)	1:88:A:VAL:HG13	1:90:A:PRO:HD2	8	0.34
(2,2298)	1:18:A:LEU:HD22	1:17:A:ASN:H	3	0.34
(2,2264)	1:134:A:LEU:HD13	1:133:A:PRO:HA	17	0.34
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD12	9	0.34
(2,2231)	1:81:A:LEU:HD11	1:89:A:VAL:HG23	10	0.34
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG21	5	0.34
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG21	6	0.34
(2,2228)	1:89:A:VAL:HG21	1:82:A:GLU:HB2	2	0.34
(2,2228)	1:89:A:VAL:HG23	1:82:A:GLU:HB2	3	0.34
(2,2212)	1:77:A:LEU:HD12	1:144:A:PHE:HZ	3	0.34
(2,2212)	1:77:A:LEU:HD13	1:144:A:PHE:HZ	14	0.34
(2,2212)	1:77:A:LEU:HD13	1:144:A:PHE:HZ	15	0.34
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	7	0.34
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	20	0.34
(2,2131)	1:29:A:LEU:HD23	1:136:A:GLN:HE21	7	0.34
(2,2131)	1:29:A:LEU:HD23	1:136:A:GLN:HE21	12	0.34
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE1	12	0.34
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE1	16	0.34
(2,2095)	1:134:A:LEU:HD23	1:88:A:VAL:H	10	0.34
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	16	0.34
(2,2017)	1:134:A:LEU:HD12	1:137:A:ASN:HB2	5	0.34
(2,2005)	1:51:A:ILE:HD11	1:69:A:ARG:HA	10	0.34
(2,1919)	1:33:A:VAL:HG21	1:49:A:TYR:HB2	1	0.34
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG22	3	0.34
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG21	6	0.34
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG22	7	0.34
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG22	13	0.34
(2,1833)	1:88:A:VAL:HB	1:88:A:VAL:HG22	17	0.34
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG13	1	0.34
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG11	2	0.34
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG11	4	0.34
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG12	10	0.34
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG11	11	0.34
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG11	12	0.34
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG12	15	0.34
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG13	16	0.34
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG13	18	0.34
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	1	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	9	0.34
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	6	0.34
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	8	0.34
(2,1671)	1:31:A:ILE:HG22	1:127:A:ASN:HD21	17	0.34
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	12	0.34
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	14	0.34
(2,1621)	1:161:A:HIS:HA	1:161:A:HIS:HB2	16	0.34
(2,1611)	1:66:A:THR:HG23	1:50:A:GLU:HB2	20	0.34
(2,1590)	1:129:A:VAL:HG21	1:141:A:LEU:HD12	9	0.34
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	18	0.34
(2,1525)	1:57:A:LEU:HD11	1:29:A:LEU:HA	8	0.34
(2,1525)	1:57:A:LEU:HD11	1:29:A:LEU:HA	10	0.34
(2,1520)	1:57:A:LEU:HD11	1:60:A:PHE:H	7	0.34
(2,1520)	1:57:A:LEU:HD12	1:60:A:PHE:H	13	0.34
(2,1520)	1:57:A:LEU:HD12	1:60:A:PHE:H	15	0.34
(2,1520)	1:57:A:LEU:HD11	1:60:A:PHE:H	19	0.34
(2,1500)	1:57:A:LEU:HD23	1:58:A:PRO:HD2	5	0.34
(2,1500)	1:57:A:LEU:HD21	1:58:A:PRO:HD2	14	0.34
(2,1401)	1:39:A:VAL:HG23	1:46:A:PHE:HE2	15	0.34
(2,1386)	1:135:A:ALA:HB3	1:130:A:ALA:H	6	0.34
(2,1386)	1:135:A:ALA:HB2	1:130:A:ALA:H	18	0.34
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB1	5	0.34
(2,1381)	1:87:A:VAL:HG22	1:135:A:ALA:HB2	9	0.34
(2,1376)	1:96:A:ALA:HB1	1:97:A:PHE:HZ	7	0.34
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB1	4	0.34
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB1	5	0.34
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB1	9	0.34
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB2	20	0.34
(2,1360)	1:6:A:ALA:HB2	1:6:A:ALA:HA	6	0.34
(2,1360)	1:6:A:ALA:HB1	1:6:A:ALA:HA	9	0.34
(2,1360)	1:6:A:ALA:HB1	1:6:A:ALA:HA	11	0.34
(2,1360)	1:6:A:ALA:HB2	1:6:A:ALA:HA	12	0.34
(2,1360)	1:6:A:ALA:HB3	1:6:A:ALA:HA	13	0.34
(2,1360)	1:6:A:ALA:HB3	1:6:A:ALA:HA	16	0.34
(2,1360)	1:6:A:ALA:HB1	1:6:A:ALA:HA	18	0.34
(2,1360)	1:6:A:ALA:HB3	1:6:A:ALA:HA	19	0.34
(2,1355)	1:51:A:ILE:HG21	1:32:A:ASP:H	10	0.34
(2,1355)	1:51:A:ILE:HG22	1:32:A:ASP:H	16	0.34
(2,1335)	1:59:A:ILE:HG22	1:57:A:LEU:H	14	0.34
(2,1328)	1:115:A:ILE:HG23	1:114:A:PHE:HE2	15	0.34
(2,1318)	1:148:A:GLU:HB2	1:149:A:ILE:HG21	15	0.34
(2,1289)	1:51:A:ILE:HD13	1:33:A:VAL:HA	12	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1286)	1:51:A:ILE:HD11	1:144:A:PHE:HE1	15	0.34
(2,1277)	1:126:A:ILE:HD11	1:126:A:ILE:H	6	0.34
(2,1277)	1:126:A:ILE:HD12	1:126:A:ILE:H	11	0.34
(2,1276)	1:115:A:ILE:HD12	1:114:A:PHE:HD2	3	0.34
(2,1276)	1:115:A:ILE:HD11	1:114:A:PHE:HD2	16	0.34
(2,1233)	1:81:A:LEU:HD11	1:81:A:LEU:H	20	0.34
(2,1197)	1:29:A:LEU:HD21	1:136:A:GLN:HG3	5	0.34
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG21	15	0.34
(2,1147)	1:122:A:LEU:HD11	1:93:A:PRO:HB3	11	0.34
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD13	13	0.34
(2,1103)	1:57:A:LEU:HD22	1:27:A:ASN:HB3	2	0.34
(2,1103)	1:57:A:LEU:HD21	1:27:A:ASN:HB3	11	0.34
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	11	0.34
(2,1057)	1:159:A:ILE:HD11	1:159:A:ILE:H	3	0.34
(2,1057)	1:159:A:ILE:HD13	1:159:A:ILE:H	11	0.34
(2,1057)	1:159:A:ILE:HD11	1:159:A:ILE:H	19	0.34
(2,1020)	1:148:A:GLU:HB3	1:67:A:VAL:HG12	19	0.34
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG22	7	0.34
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG21	18	0.34
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG22	4	0.34
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG23	7	0.34
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG21	12	0.34
(2,863)	1:115:A:ILE:HD12	1:114:A:PHE:HB3	1	0.34
(2,863)	1:115:A:ILE:HD13	1:114:A:PHE:HB3	8	0.34
(2,863)	1:115:A:ILE:HD13	1:114:A:PHE:HB3	11	0.34
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	5	0.34
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	10	0.34
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	13	0.34
(2,628)	1:129:A:VAL:HG13	1:77:A:LEU:HD13	18	0.34
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	2	0.34
(2,542)	1:143:A:MET:HE2	1:154:A:TYR:HE1	15	0.34
(2,542)	1:143:A:MET:HE1	1:154:A:TYR:HE1	16	0.34
(2,542)	1:143:A:MET:HE3	1:154:A:TYR:HE1	19	0.34
(2,542)	1:143:A:MET:HE1	1:154:A:TYR:HE1	20	0.34
(2,539)	1:143:A:MET:HE2	1:154:A:TYR:H	7	0.34
(2,539)	1:143:A:MET:HE3	1:154:A:TYR:H	11	0.34
(2,539)	1:143:A:MET:HE1	1:154:A:TYR:H	19	0.34
(2,526)	1:122:A:LEU:HD11	1:75:A:GLU:H	19	0.34
(2,479)	1:53:A:VAL:HG22	1:55:A:THR:HG23	15	0.34
(2,461)	1:48:A:THR:HG22	1:68:A:ARG:HG2	5	0.34
(2,455)	1:48:A:THR:HG22	1:49:A:TYR:H	17	0.34
(2,381)	1:89:A:VAL:HG11	1:81:A:LEU:HD12	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,375)	1:89:A:VAL:HG21	1:78:A:ARG:HG3	5	0.34
(2,375)	1:89:A:VAL:HG23	1:78:A:ARG:HG3	13	0.34
(2,375)	1:89:A:VAL:HG22	1:78:A:ARG:HG3	15	0.34
(2,355)	1:89:A:VAL:HG12	1:129:A:VAL:H	7	0.34
(2,355)	1:89:A:VAL:HG11	1:129:A:VAL:H	10	0.34
(2,355)	1:89:A:VAL:HG12	1:129:A:VAL:H	12	0.34
(2,355)	1:89:A:VAL:HG11	1:129:A:VAL:H	14	0.34
(2,355)	1:89:A:VAL:HG13	1:129:A:VAL:H	17	0.34
(2,312)	1:92:A:LEU:HD23	1:74:A:PHE:HA	2	0.34
(2,310)	1:92:A:LEU:HD21	1:92:A:LEU:H	2	0.34
(2,310)	1:92:A:LEU:HD21	1:92:A:LEU:H	10	0.34
(2,306)	1:92:A:LEU:HD22	1:75:A:GLU:H	15	0.34
(2,291)	1:92:A:LEU:HD21	1:93:A:PRO:HD3	2	0.34
(2,291)	1:92:A:LEU:HD23	1:93:A:PRO:HD3	16	0.34
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD22	4	0.34
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD23	13	0.34
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD22	14	0.34
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD21	15	0.34
(2,151)	1:66:A:THR:HG22	1:50:A:GLU:H	4	0.34
(2,69)	1:59:A:ILE:HA	1:59:A:ILE:HG12	20	0.34
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	3	0.34
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	12	0.34
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	13	0.34
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	12	0.33
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	16	0.33
(2,4899)	1:124:A:GLN:HE22	1:123:A:GLU:HA	3	0.33
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	14	0.33
(2,4872)	1:113:A:ASN:H	1:117:A:GLU:HG2	15	0.33
(2,4853)	1:100:A:GLN:HG2	1:100:A:GLN:H	2	0.33
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	5	0.33
(2,4853)	1:100:A:GLN:HG3	1:100:A:GLN:H	18	0.33
(2,4853)	1:100:A:GLN:HG2	1:100:A:GLN:H	19	0.33
(2,4844)	1:73:A:ASP:H	1:49:A:TYR:HD2	5	0.33
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	8	0.33
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	14	0.33
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	16	0.33
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	3	0.33
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	7	0.33
(2,4782)	1:16:A:GLN:HG3	1:16:A:GLN:HE22	10	0.33
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	15	0.33
(2,4782)	1:16:A:GLN:HG2	1:16:A:GLN:HE22	19	0.33
(2,4777)	1:11:A:LEU:HD21	1:12:A:ILE:H	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4774)	1:11:A:LEU:H	1:10:A:ARG:HD2	17	0.33
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	4	0.33
(2,4760)	1:5:A:VAL:HG21	1:4:A:THR:H	20	0.33
(2,4741)	1:5:A:VAL:HG22	1:5:A:VAL:H	3	0.33
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	16	0.33
(2,4726)	1:50:A:GLU:H	1:68:A:ARG:HG3	7	0.33
(2,4726)	1:50:A:GLU:H	1:68:A:ARG:HG3	10	0.33
(2,4722)	1:161:A:HIS:HA	1:160:A:ARG:H	1	0.33
(2,4714)	1:101:A:LEU:HD21	1:101:A:LEU:H	4	0.33
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	15	0.33
(2,4702)	1:64:A:GLU:HB2	1:64:A:GLU:H	5	0.33
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	3	0.33
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD13	20	0.33
(2,4680)	1:137:A:ASN:H	1:134:A:LEU:HB3	10	0.33
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	18	0.33
(2,4623)	1:134:A:LEU:HD21	1:88:A:VAL:H	6	0.33
(2,4623)	1:134:A:LEU:HD21	1:88:A:VAL:H	15	0.33
(2,4623)	1:134:A:LEU:HD23	1:88:A:VAL:H	16	0.33
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG23	12	0.33
(2,4574)	1:88:A:VAL:HG22	1:90:A:PRO:HD2	18	0.33
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	11	0.33
(2,4534)	1:149:A:ILE:HG22	1:150:A:ILE:HG13	5	0.33
(2,4534)	1:149:A:ILE:HG23	1:150:A:ILE:HG13	8	0.33
(2,4534)	1:149:A:ILE:HG22	1:150:A:ILE:HG13	14	0.33
(2,4533)	1:88:A:VAL:HG21	1:90:A:PRO:HB2	9	0.33
(2,4533)	1:88:A:VAL:HG23	1:90:A:PRO:HB2	17	0.33
(2,4475)	1:141:A:LEU:HD12	1:77:A:LEU:HD11	15	0.33
(2,4474)	1:77:A:LEU:HD12	1:138:A:GLU:HB2	16	0.33
(2,4462)	1:62:A:LEU:HD21	1:61:A:LYS:HA	6	0.33
(2,4454)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	17	0.33
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	4	0.33
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	11	0.33
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	8	0.33
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG2	5	0.33
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG2	9	0.33
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	2	0.33
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	6	0.33
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	16	0.33
(2,4401)	1:9:A:ARG:HD2	1:9:A:ARG:HG2	2	0.33
(2,4401)	1:9:A:ARG:HD2	1:9:A:ARG:HG3	11	0.33
(2,4398)	1:62:A:LEU:HD13	1:61:A:LYS:HD2	17	0.33
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD12	3	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4367)	1:62:A:LEU:HD21	1:61:A:LYS:H	6	0.33
(2,4360)	1:157:A:SER:HB2	1:158:A:LYS:HD2	8	0.33
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	2	0.33
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	8	0.33
(2,4335)	1:59:A:ILE:HG21	1:141:A:LEU:HB3	2	0.33
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD22	7	0.33
(2,4327)	1:33:A:VAL:HG23	1:122:A:LEU:H	2	0.33
(2,4327)	1:33:A:VAL:HG23	1:122:A:LEU:H	4	0.33
(2,4327)	1:33:A:VAL:HG22	1:122:A:LEU:H	7	0.33
(2,4319)	1:115:A:ILE:HG23	1:118:A:ARG:HB3	7	0.33
(2,4310)	1:10:A:ARG:HG2	1:10:A:ARG:HD2	9	0.33
(2,4308)	1:99:A:ARG:HA	1:99:A:ARG:HD2	12	0.33
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	8	0.33
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	10	0.33
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	2	0.33
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	3	0.33
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	18	0.33
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	19	0.33
(2,4247)	1:12:A:ILE:HB	1:11:A:LEU:HA	9	0.33
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	14	0.33
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	1	0.33
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	18	0.33
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	16	0.33
(2,4182)	1:141:A:LEU:HD13	1:143:A:MET:HG2	2	0.33
(2,4158)	1:57:A:LEU:HD11	1:57:A:LEU:HA	19	0.33
(2,4158)	1:57:A:LEU:HD13	1:57:A:LEU:HA	20	0.33
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	8	0.33
(2,4110)	1:96:A:ALA:HB3	1:97:A:PHE:HB3	20	0.33
(2,4103)	1:51:A:ILE:HG23	1:60:A:PHE:HE2	3	0.33
(2,4026)	1:152:A:LYS:HE2	1:76:A:TRP:H	20	0.33
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD21	5	0.33
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD23	6	0.33
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD22	10	0.33
(2,4021)	1:11:A:LEU:HG	1:11:A:LEU:HD13	3	0.33
(2,4006)	1:139:A:ARG:HD2	1:139:A:ARG:HB2	6	0.33
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	18	0.33
(2,3959)	1:109:A:ILE:HD13	1:110:A:PHE:HE1	9	0.33
(2,3958)	1:109:A:ILE:HD13	1:107:A:ASP:H	2	0.33
(2,3958)	1:109:A:ILE:HD12	1:107:A:ASP:H	8	0.33
(2,3940)	1:115:A:ILE:HD11	1:109:A:ILE:HA	12	0.33
(2,3930)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	11	0.33
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	4	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	5	0.33
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	7	0.33
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	9	0.33
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	11	0.33
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	19	0.33
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	17	0.33
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	19	0.33
(2,3894)	1:92:A:LEU:HD22	1:93:A:PRO:HG3	20	0.33
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	5	0.33
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	10	0.33
(2,3885)	1:122:A:LEU:HD21	1:93:A:PRO:HG2	10	0.33
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	8	0.33
(2,3826)	1:14:A:LYS:HE2	1:14:A:LYS:HG2	19	0.33
(2,3819)	1:128:A:LYS:HD3	1:125:A:PHE:H	17	0.33
(2,3793)	1:130:A:ALA:HB2	1:126:A:ILE:HD12	20	0.33
(2,3783)	1:143:A:MET:HE2	1:143:A:MET:HB3	13	0.33
(2,3763)	1:53:A:VAL:HG23	1:64:A:GLU:HB3	16	0.33
(2,3759)	1:53:A:VAL:HG21	1:30:A:GLU:H	7	0.33
(2,3747)	1:0:A:GLY:HA2	1:-1:A:VAL:HG22	2	0.33
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	9	0.33
(2,3737)	1:87:A:VAL:HA	1:134:A:LEU:HG	2	0.33
(2,3726)	1:89:A:VAL:HG23	1:78:A:ARG:HA	11	0.33
(2,3726)	1:89:A:VAL:HG23	1:78:A:ARG:HA	20	0.33
(2,3708)	1:92:A:LEU:HD12	1:78:A:ARG:H	9	0.33
(2,3708)	1:92:A:LEU:HD11	1:78:A:ARG:H	15	0.33
(2,3707)	1:92:A:LEU:HD23	1:78:A:ARG:H	18	0.33
(2,3703)	1:92:A:LEU:HD11	1:75:A:GLU:HG3	17	0.33
(2,3684)	1:155:A:THR:HG22	1:156:A:PRO:HD2	19	0.33
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	7	0.33
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	10	0.33
(2,3662)	1:64:A:GLU:HA	1:54:A:LYS:HB2	4	0.33
(2,3658)	1:66:A:THR:HG22	1:52:A:ARG:HD2	3	0.33
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB3	12	0.33
(2,3505)	1:39:A:VAL:HG13	1:37:A:GLN:HE22	12	0.33
(2,3466)	1:136:A:GLN:HE22	1:136:A:GLN:H	9	0.33
(2,3466)	1:136:A:GLN:HE22	1:136:A:GLN:H	16	0.33
(2,3289)	1:150:A:ILE:HD13	1:73:A:ASP:H	12	0.33
(2,3115)	1:27:A:ASN:HB2	1:27:A:ASN:HD22	5	0.33
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	9	0.33
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	11	0.33
(2,3067)	1:17:A:ASN:HB3	1:17:A:ASN:HD22	19	0.33
(2,3016)	1:9:A:ARG:HA	1:9:A:ARG:H	20	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD23	12	0.33
(2,2938)	1:4:A:THR:HG21	1:5:A:VAL:H	6	0.33
(2,2938)	1:4:A:THR:HG23	1:5:A:VAL:H	8	0.33
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	4	0.33
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG21	7	0.33
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG21	19	0.33
(2,2783)	1:41:A:VAL:H	1:45:A:ARG:HD3	4	0.33
(2,2776)	1:42:A:GLY:H	1:45:A:ARG:HD3	8	0.33
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	4	0.33
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	14	0.33
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	19	0.33
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	13	0.33
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	10	0.33
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	11	0.33
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	16	0.33
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	4	0.33
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	8	0.33
(2,2444)	1:67:A:VAL:HG11	1:68:A:ARG:H	6	0.33
(2,2423)	1:21:A:ALA:H	1:22:A:TYR:HD1	16	0.33
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	3	0.33
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	4	0.33
(2,2354)	1:59:A:ILE:HD11	1:60:A:PHE:HZ	20	0.33
(2,2338)	1:29:A:LEU:HD23	1:130:A:ALA:H	20	0.33
(2,2307)	1:41:A:VAL:HG21	1:44:A:GLY:H	1	0.33
(2,2228)	1:89:A:VAL:HG22	1:82:A:GLU:HB2	4	0.33
(2,2228)	1:89:A:VAL:HG23	1:82:A:GLU:HB2	11	0.33
(2,2228)	1:89:A:VAL:HG22	1:82:A:GLU:HB2	15	0.33
(2,2228)	1:89:A:VAL:HG23	1:82:A:GLU:HB2	20	0.33
(2,2212)	1:77:A:LEU:HD13	1:144:A:PHE:HZ	11	0.33
(2,2210)	1:77:A:LEU:HD12	1:144:A:PHE:HD2	3	0.33
(2,2208)	1:77:A:LEU:HB3	1:77:A:LEU:HD13	16	0.33
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE1	5	0.33
(2,2095)	1:134:A:LEU:HD21	1:88:A:VAL:H	17	0.33
(2,2094)	1:98:A:LEU:HD23	1:97:A:PHE:HZ	6	0.33
(2,2086)	1:8:A:THR:HG22	1:8:A:THR:HB	1	0.33
(2,2086)	1:8:A:THR:HG23	1:8:A:THR:HB	3	0.33
(2,2086)	1:8:A:THR:HG21	1:8:A:THR:HB	4	0.33
(2,2086)	1:8:A:THR:HG21	1:8:A:THR:HB	5	0.33
(2,2086)	1:8:A:THR:HG23	1:8:A:THR:HB	6	0.33
(2,2086)	1:8:A:THR:HG23	1:8:A:THR:HB	7	0.33
(2,2086)	1:8:A:THR:HG21	1:8:A:THR:HB	8	0.33
(2,2086)	1:8:A:THR:HG22	1:8:A:THR:HB	9	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2086)	1:8:A:THR:HG22	1:8:A:THR:HB	10	0.33
(2,2086)	1:8:A:THR:HG21	1:8:A:THR:HB	11	0.33
(2,2086)	1:8:A:THR:HG22	1:8:A:THR:HB	12	0.33
(2,2086)	1:8:A:THR:HG21	1:8:A:THR:HB	13	0.33
(2,2086)	1:8:A:THR:HG21	1:8:A:THR:HB	18	0.33
(2,2086)	1:8:A:THR:HG21	1:8:A:THR:HB	19	0.33
(2,2086)	1:8:A:THR:HG23	1:8:A:THR:HB	20	0.33
(2,2017)	1:134:A:LEU:HD12	1:137:A:ASN:HB2	12	0.33
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	13	0.33
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	16	0.33
(2,1965)	1:149:A:ILE:HD12	1:150:A:ILE:HA	3	0.33
(2,1951)	1:38:A:THR:HG23	1:110:A:PHE:HE2	15	0.33
(2,1922)	1:33:A:VAL:HG21	1:33:A:VAL:HA	17	0.33
(2,1915)	1:134:A:LEU:HD22	1:86:A:LYS:HB3	16	0.33
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	12	0.33
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG11	3	0.33
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG13	5	0.33
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG12	8	0.33
(2,1832)	1:88:A:VAL:HB	1:88:A:VAL:HG12	19	0.33
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	18	0.33
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	19	0.33
(2,1722)	1:61:A:LYS:HB3	1:61:A:LYS:H	15	0.33
(2,1611)	1:66:A:THR:HG21	1:50:A:GLU:HB2	9	0.33
(2,1611)	1:66:A:THR:HG22	1:50:A:GLU:HB2	17	0.33
(2,1590)	1:129:A:VAL:HG21	1:141:A:LEU:HD13	8	0.33
(2,1590)	1:129:A:VAL:HG23	1:141:A:LEU:HD12	17	0.33
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	1	0.33
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	11	0.33
(2,1520)	1:57:A:LEU:HD11	1:60:A:PHE:H	16	0.33
(2,1500)	1:57:A:LEU:HD23	1:58:A:PRO:HD2	12	0.33
(2,1500)	1:57:A:LEU:HD23	1:58:A:PRO:HD2	16	0.33
(2,1489)	1:29:A:LEU:HD13	1:55:A:THR:HA	11	0.33
(2,1401)	1:39:A:VAL:HG22	1:46:A:PHE:HE2	4	0.33
(2,1401)	1:39:A:VAL:HG23	1:46:A:PHE:HE2	10	0.33
(2,1386)	1:135:A:ALA:HB1	1:130:A:ALA:H	2	0.33
(2,1386)	1:135:A:ALA:HB1	1:130:A:ALA:H	4	0.33
(2,1384)	1:135:A:ALA:HB2	1:137:A:ASN:H	4	0.33
(2,1376)	1:96:A:ALA:HB2	1:97:A:PHE:HZ	6	0.33
(2,1376)	1:96:A:ALA:HB1	1:97:A:PHE:HZ	15	0.33
(2,1376)	1:96:A:ALA:HB2	1:97:A:PHE:HZ	18	0.33
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB1	3	0.33
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB2	13	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB1	18	0.33
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB3	19	0.33
(2,1370)	1:21:A:ALA:HB1	1:20:A:ASP:H	1	0.33
(2,1370)	1:21:A:ALA:HB1	1:20:A:ASP:H	13	0.33
(2,1360)	1:6:A:ALA:HB1	1:6:A:ALA:HA	4	0.33
(2,1360)	1:6:A:ALA:HB2	1:6:A:ALA:HA	5	0.33
(2,1360)	1:6:A:ALA:HB3	1:6:A:ALA:HA	7	0.33
(2,1360)	1:6:A:ALA:HB3	1:6:A:ALA:HA	10	0.33
(2,1360)	1:6:A:ALA:HB1	1:6:A:ALA:HA	14	0.33
(2,1360)	1:6:A:ALA:HB3	1:6:A:ALA:HA	15	0.33
(2,1355)	1:51:A:ILE:HG22	1:32:A:ASP:H	1	0.33
(2,1355)	1:51:A:ILE:HG23	1:32:A:ASP:H	9	0.33
(2,1355)	1:51:A:ILE:HG21	1:32:A:ASP:H	15	0.33
(2,1336)	1:59:A:ILE:HG23	1:61:A:LYS:H	3	0.33
(2,1336)	1:59:A:ILE:HG23	1:61:A:LYS:H	12	0.33
(2,1336)	1:59:A:ILE:HG23	1:61:A:LYS:H	13	0.33
(2,1328)	1:115:A:ILE:HG22	1:114:A:PHE:HE2	8	0.33
(2,1328)	1:115:A:ILE:HG22	1:114:A:PHE:HE2	9	0.33
(2,1312)	1:149:A:ILE:HG21	1:151:A:ASP:H	13	0.33
(2,1286)	1:51:A:ILE:HD13	1:144:A:PHE:HE1	11	0.33
(2,1277)	1:126:A:ILE:HD13	1:126:A:ILE:H	4	0.33
(2,1277)	1:126:A:ILE:HD12	1:126:A:ILE:H	7	0.33
(2,1277)	1:126:A:ILE:HD12	1:126:A:ILE:H	10	0.33
(2,1277)	1:126:A:ILE:HD13	1:126:A:ILE:H	18	0.33
(2,1276)	1:115:A:ILE:HD11	1:114:A:PHE:HD2	9	0.33
(2,1276)	1:115:A:ILE:HD11	1:114:A:PHE:HD2	11	0.33
(2,1233)	1:81:A:LEU:HD12	1:81:A:LEU:H	5	0.33
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD13	9	0.33
(2,1103)	1:57:A:LEU:HD23	1:27:A:ASN:HB3	1	0.33
(2,1103)	1:57:A:LEU:HD21	1:27:A:ASN:HB3	7	0.33
(2,1103)	1:57:A:LEU:HD22	1:27:A:ASN:HB3	9	0.33
(2,1103)	1:57:A:LEU:HD21	1:27:A:ASN:HB3	19	0.33
(2,1103)	1:57:A:LEU:HD21	1:27:A:ASN:HB3	20	0.33
(2,1072)	1:159:A:ILE:HD12	1:139:A:ARG:HD2	13	0.33
(2,1072)	1:159:A:ILE:HD11	1:139:A:ARG:HD2	16	0.33
(2,1063)	1:159:A:ILE:HD12	1:142:A:HIS:HB3	4	0.33
(2,1057)	1:159:A:ILE:HD12	1:159:A:ILE:H	4	0.33
(2,1057)	1:159:A:ILE:HD11	1:159:A:ILE:H	16	0.33
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD23	12	0.33
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG22	5	0.33
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG22	6	0.33
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG21	4	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG21	9	0.33
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG21	10	0.33
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG21	14	0.33
(2,917)	1:109:A:ILE:HG23	1:110:A:PHE:H	13	0.33
(2,897)	1:113:A:ASN:HB2	1:117:A:GLU:HG3	10	0.33
(2,877)	1:115:A:ILE:HG22	1:47:A:THR:HG21	9	0.33
(2,877)	1:115:A:ILE:HG22	1:47:A:THR:HG22	18	0.33
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG23	5	0.33
(2,875)	1:115:A:ILE:HG13	1:115:A:ILE:HG22	8	0.33
(2,863)	1:115:A:ILE:HD13	1:114:A:PHE:HB3	12	0.33
(2,847)	1:115:A:ILE:HD11	1:115:A:ILE:H	18	0.33
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	18	0.33
(2,755)	1:122:A:LEU:HD21	1:122:A:LEU:HA	10	0.33
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	8	0.33
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	17	0.33
(2,628)	1:129:A:VAL:HG12	1:77:A:LEU:HD12	6	0.33
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	12	0.33
(2,539)	1:143:A:MET:HE3	1:154:A:TYR:H	9	0.33
(2,523)	1:122:A:LEU:HD11	1:125:A:PHE:HZ	3	0.33
(2,519)	1:122:A:LEU:HD11	1:74:A:PHE:HD2	15	0.33
(2,495)	1:126:A:ILE:HG21	1:31:A:ILE:HD11	7	0.33
(2,495)	1:126:A:ILE:HG22	1:31:A:ILE:HD13	15	0.33
(2,479)	1:53:A:VAL:HG23	1:55:A:THR:HG23	9	0.33
(2,461)	1:48:A:THR:HG22	1:68:A:ARG:HG2	20	0.33
(2,454)	1:141:A:LEU:HD12	1:77:A:LEU:HD12	5	0.33
(2,428)	1:13:A:THR:HG23	1:12:A:ILE:H	11	0.33
(2,375)	1:89:A:VAL:HG23	1:78:A:ARG:HG3	16	0.33
(2,355)	1:89:A:VAL:HG13	1:129:A:VAL:H	9	0.33
(2,312)	1:92:A:LEU:HD22	1:74:A:PHE:HA	3	0.33
(2,310)	1:92:A:LEU:HD21	1:92:A:LEU:H	19	0.33
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD22	10	0.33
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD21	11	0.33
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD23	12	0.33
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD22	18	0.33
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD23	20	0.33
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE2	12	0.33
(2,137)	1:67:A:VAL:HG22	1:68:A:ARG:H	11	0.33
(2,4981)	1:89:A:VAL:H	1:134:A:LEU:HB3	10	0.32
(2,4968)	1:152:A:LYS:HD3	1:76:A:TRP:HE1	18	0.32
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	10	0.32
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	19	0.32
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	20	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	5	0.32
(2,4787)	1:56:A:ASN:HD22	1:24:A:PRO:HG2	8	0.32
(2,4725)	1:50:A:GLU:H	1:36:A:PRO:HB3	2	0.32
(2,4721)	1:160:A:ARG:H	1:158:A:LYS:HE3	15	0.32
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	13	0.32
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	18	0.32
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	17	0.32
(2,4702)	1:64:A:GLU:HB2	1:64:A:GLU:H	9	0.32
(2,4701)	1:44:A:GLY:H	1:110:A:PHE:HE1	12	0.32
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	18	0.32
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	13	0.32
(2,4678)	1:19:A:ASN:HD21	1:18:A:LEU:HB3	13	0.32
(2,4659)	1:0:A:GLY:H	1:-1:A:VAL:HG13	19	0.32
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG2	9	0.32
(2,4623)	1:134:A:LEU:HD22	1:88:A:VAL:H	5	0.32
(2,4623)	1:134:A:LEU:HD23	1:88:A:VAL:H	8	0.32
(2,4623)	1:134:A:LEU:HD22	1:88:A:VAL:H	18	0.32
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	17	0.32
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG21	6	0.32
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	2	0.32
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	16	0.32
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	2	0.32
(2,4480)	1:92:A:LEU:HD11	1:76:A:TRP:H	2	0.32
(2,4480)	1:92:A:LEU:HD13	1:76:A:TRP:H	18	0.32
(2,4454)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	14	0.32
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	7	0.32
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	8	0.32
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	16	0.32
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	2	0.32
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	1	0.32
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	4	0.32
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	9	0.32
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	15	0.32
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	18	0.32
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	19	0.32
(2,4407)	1:14:A:LYS:HA	1:14:A:LYS:HG2	1	0.32
(2,4401)	1:9:A:ARG:HD3	1:9:A:ARG:HG2	9	0.32
(2,4401)	1:10:A:ARG:HD3	1:10:A:ARG:HG3	12	0.32
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD12	18	0.32
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD21	2	0.32
(2,4308)	1:99:A:ARG:HA	1:99:A:ARG:HD2	15	0.32
(2,4298)	1:93:A:PRO:HD3	1:125:A:PHE:HE1	5	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4281)	1:85:A:SER:HB2	1:84:A:GLU:HA	19	0.32
(2,4272)	1:80:A:GLU:HA	1:77:A:LEU:HA	11	0.32
(2,4265)	1:68:A:ARG:HD3	1:68:A:ARG:H	20	0.32
(2,4259)	1:63:A:LYS:HD2	1:63:A:LYS:HE3	4	0.32
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	9	0.32
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	12	0.32
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	16	0.32
(2,4259)	1:63:A:LYS:HD2	1:63:A:LYS:HE3	20	0.32
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	3	0.32
(2,4215)	1:156:A:PRO:HD3	1:139:A:ARG:HG2	2	0.32
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	11	0.32
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	11	0.32
(2,4122)	1:33:A:VAL:HG11	1:144:A:PHE:HE1	4	0.32
(2,4102)	1:51:A:ILE:HG21	1:53:A:VAL:HB	6	0.32
(2,4094)	1:115:A:ILE:HG23	1:119:A:LYS:H	18	0.32
(2,4040)	1:45:A:ARG:HD3	1:38:A:THR:HG22	7	0.32
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD21	9	0.32
(2,4006)	1:139:A:ARG:HD2	1:139:A:ARG:HB2	5	0.32
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	1	0.32
(2,3963)	1:109:A:ILE:HD13	1:107:A:ASP:HB2	19	0.32
(2,3947)	1:115:A:ILE:HG22	1:36:A:PRO:HG2	2	0.32
(2,3943)	1:115:A:ILE:HD12	1:112:A:ASP:HB2	4	0.32
(2,3942)	1:115:A:ILE:HG23	1:119:A:LYS:HE2	9	0.32
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	3	0.32
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	18	0.32
(2,3894)	1:92:A:LEU:HD22	1:93:A:PRO:HG2	2	0.32
(2,3894)	1:92:A:LEU:HD23	1:93:A:PRO:HG2	13	0.32
(2,3826)	1:14:A:LYS:HE2	1:14:A:LYS:HG2	17	0.32
(2,3819)	1:128:A:LYS:HD3	1:125:A:PHE:H	12	0.32
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	4	0.32
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	5	0.32
(2,3768)	1:53:A:VAL:HG23	1:145:A:LEU:HB3	15	0.32
(2,3759)	1:53:A:VAL:HG22	1:30:A:GLU:H	11	0.32
(2,3715)	1:90:A:PRO:HD3	1:128:A:LYS:HD2	3	0.32
(2,3684)	1:155:A:THR:HG23	1:156:A:PRO:HD2	2	0.32
(2,3684)	1:155:A:THR:HG21	1:156:A:PRO:HD2	6	0.32
(2,3684)	1:155:A:THR:HG21	1:156:A:PRO:HD2	7	0.32
(2,3684)	1:155:A:THR:HG22	1:156:A:PRO:HD2	17	0.32
(2,3662)	1:64:A:GLU:HA	1:63:A:LYS:HB2	9	0.32
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	5	0.32
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	12	0.32
(2,3639)	1:79:A:SER:HB3	1:83:A:ARG:HG3	2	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	6	0.32
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	10	0.32
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB1	2	0.32
(2,3608)	1:131:A:GLY:HA2	1:29:A:LEU:HB3	17	0.32
(2,3523)	1:162:A:ALA:HB1	1:162:A:ALA:H	7	0.32
(2,3505)	1:39:A:VAL:HG12	1:37:A:GLN:HE22	20	0.32
(2,3466)	1:136:A:GLN:HE22	1:136:A:GLN:H	5	0.32
(2,3466)	1:136:A:GLN:HE22	1:136:A:GLN:H	14	0.32
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD1	5	0.32
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD1	6	0.32
(2,3253)	1:55:A:THR:HG22	1:64:A:GLU:H	5	0.32
(2,3201)	1:47:A:THR:H	1:46:A:PHE:HE2	16	0.32
(2,3115)	1:27:A:ASN:HB2	1:27:A:ASN:HD22	1	0.32
(2,3115)	1:27:A:ASN:HB2	1:27:A:ASN:HD22	6	0.32
(2,3115)	1:27:A:ASN:HB2	1:27:A:ASN:HD22	10	0.32
(2,3115)	1:27:A:ASN:HB2	1:27:A:ASN:HD22	12	0.32
(2,3115)	1:27:A:ASN:HB2	1:27:A:ASN:HD22	13	0.32
(2,3115)	1:27:A:ASN:HB2	1:27:A:ASN:HD22	16	0.32
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	7	0.32
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	6	0.32
(2,2979)	1:2:A:ALA:HB2	1:3:A:GLU:H	9	0.32
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	4	0.32
(2,2833)	1:113:A:ASN:HD22	1:113:A:ASN:HA	14	0.32
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG21	6	0.32
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG23	8	0.32
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG23	13	0.32
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	19	0.32
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	10	0.32
(2,2632)	1:150:A:ILE:H	1:69:A:ARG:HB2	20	0.32
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	15	0.32
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	16	0.32
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	15	0.32
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	7	0.32
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	11	0.32
(2,2444)	1:67:A:VAL:HG11	1:68:A:ARG:H	10	0.32
(2,2373)	1:33:A:VAL:HG23	1:49:A:TYR:HE1	18	0.32
(2,2285)	1:161:A:HIS:HA	1:161:A:HIS:HD2	8	0.32
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD11	1	0.32
(2,2228)	1:89:A:VAL:HG21	1:82:A:GLU:HB2	18	0.32
(2,2212)	1:77:A:LEU:HD13	1:144:A:PHE:HZ	18	0.32
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	2	0.32
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG21	12	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2094)	1:98:A:LEU:HD21	1:97:A:PHE:HZ	19	0.32
(2,2086)	1:8:A:THR:HG22	1:8:A:THR:HB	14	0.32
(2,2086)	1:8:A:THR:HG22	1:8:A:THR:HB	15	0.32
(2,2086)	1:8:A:THR:HG23	1:8:A:THR:HB	16	0.32
(2,2086)	1:8:A:THR:HG22	1:8:A:THR:HB	17	0.32
(2,1953)	1:145:A:LEU:HD21	1:141:A:LEU:HB3	3	0.32
(2,1922)	1:33:A:VAL:HG21	1:33:A:VAL:HA	12	0.32
(2,1915)	1:134:A:LEU:HD22	1:86:A:LYS:HB3	12	0.32
(2,1813)	1:86:A:LYS:HG3	1:86:A:LYS:HA	19	0.32
(2,1793)	1:83:A:ARG:HD3	1:83:A:ARG:HA	3	0.32
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	12	0.32
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	13	0.32
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	1	0.32
(2,1679)	1:126:A:ILE:HG22	1:31:A:ILE:HG23	17	0.32
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	12	0.32
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG22	9	0.32
(2,1611)	1:66:A:THR:HG22	1:50:A:GLU:HB2	2	0.32
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	2	0.32
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	9	0.32
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	17	0.32
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	19	0.32
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	18	0.32
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	19	0.32
(2,1520)	1:57:A:LEU:HD12	1:60:A:PHE:H	5	0.32
(2,1520)	1:57:A:LEU:HD13	1:60:A:PHE:H	10	0.32
(2,1489)	1:29:A:LEU:HD11	1:55:A:THR:HA	19	0.32
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	1	0.32
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	4	0.32
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	5	0.32
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	17	0.32
(2,1392)	1:162:A:ALA:HB2	1:162:A:ALA:HA	1	0.32
(2,1392)	1:162:A:ALA:HB2	1:162:A:ALA:HA	6	0.32
(2,1392)	1:162:A:ALA:HB3	1:162:A:ALA:HA	8	0.32
(2,1392)	1:162:A:ALA:HB1	1:162:A:ALA:HA	11	0.32
(2,1392)	1:162:A:ALA:HB1	1:162:A:ALA:HA	17	0.32
(2,1386)	1:135:A:ALA:HB1	1:130:A:ALA:H	11	0.32
(2,1384)	1:135:A:ALA:HB2	1:137:A:ASN:H	19	0.32
(2,1376)	1:96:A:ALA:HB1	1:97:A:PHE:HZ	13	0.32
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB2	8	0.32
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB2	17	0.32
(2,1360)	1:6:A:ALA:HB3	1:6:A:ALA:HA	1	0.32
(2,1360)	1:6:A:ALA:HB1	1:6:A:ALA:HA	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1360)	1:6:A:ALA:HB1	1:6:A:ALA:HA	8	0.32
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB3	10	0.32
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB1	13	0.32
(2,1357)	1:51:A:ILE:HG22	1:34:A:SER:H	13	0.32
(2,1355)	1:51:A:ILE:HG23	1:32:A:ASP:H	4	0.32
(2,1355)	1:51:A:ILE:HG21	1:32:A:ASP:H	7	0.32
(2,1355)	1:51:A:ILE:HG23	1:32:A:ASP:H	11	0.32
(2,1355)	1:51:A:ILE:HG23	1:32:A:ASP:H	12	0.32
(2,1355)	1:51:A:ILE:HG22	1:32:A:ASP:H	18	0.32
(2,1355)	1:51:A:ILE:HG23	1:32:A:ASP:H	20	0.32
(2,1351)	1:51:A:ILE:HG23	1:66:A:THR:HA	1	0.32
(2,1338)	1:59:A:ILE:HG22	1:58:A:PRO:HA	4	0.32
(2,1336)	1:59:A:ILE:HG22	1:61:A:LYS:H	7	0.32
(2,1330)	1:115:A:ILE:HG23	1:37:A:GLN:H	1	0.32
(2,1312)	1:149:A:ILE:HG23	1:151:A:ASP:H	17	0.32
(2,1277)	1:126:A:ILE:HD11	1:126:A:ILE:H	1	0.32
(2,1277)	1:126:A:ILE:HD12	1:126:A:ILE:H	9	0.32
(2,1277)	1:126:A:ILE:HD13	1:126:A:ILE:H	15	0.32
(2,1277)	1:126:A:ILE:HD11	1:126:A:ILE:H	17	0.32
(2,1277)	1:126:A:ILE:HD13	1:126:A:ILE:H	20	0.32
(2,1244)	1:81:A:LEU:HD22	1:135:A:ALA:HB1	20	0.32
(2,1233)	1:81:A:LEU:HD11	1:81:A:LEU:H	11	0.32
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD11	2	0.32
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD13	13	0.32
(2,1103)	1:57:A:LEU:HD21	1:27:A:ASN:HB3	4	0.32
(2,1103)	1:57:A:LEU:HD23	1:27:A:ASN:HB3	6	0.32
(2,1103)	1:57:A:LEU:HD21	1:27:A:ASN:HB3	15	0.32
(2,1103)	1:57:A:LEU:HD21	1:27:A:ASN:HB3	18	0.32
(2,1093)	1:139:A:ARG:HG2	1:154:A:TYR:HE2	15	0.32
(2,1086)	1:139:A:ARG:HD3	1:154:A:TYR:HD2	15	0.32
(2,1057)	1:159:A:ILE:HD13	1:159:A:ILE:H	8	0.32
(2,999)	1:101:A:LEU:HD12	1:101:A:LEU:HA	2	0.32
(2,999)	1:101:A:LEU:HD11	1:101:A:LEU:HA	10	0.32
(2,999)	1:101:A:LEU:HD11	1:101:A:LEU:HA	12	0.32
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG21	7	0.32
(2,863)	1:115:A:ILE:HD11	1:114:A:PHE:HB3	13	0.32
(2,855)	1:115:A:ILE:HG21	1:112:A:ASP:HA	9	0.32
(2,847)	1:115:A:ILE:HD12	1:115:A:ILE:H	5	0.32
(2,847)	1:115:A:ILE:HD13	1:115:A:ILE:H	8	0.32
(2,847)	1:115:A:ILE:HD11	1:115:A:ILE:H	15	0.32
(2,748)	1:122:A:LEU:HD22	1:122:A:LEU:H	14	0.32
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	2	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	20	0.32
(2,680)	1:55:A:THR:HG21	1:63:A:LYS:HB3	18	0.32
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	20	0.32
(2,542)	1:143:A:MET:HE1	1:154:A:TYR:HE1	13	0.32
(2,539)	1:143:A:MET:HE3	1:154:A:TYR:H	18	0.32
(2,479)	1:53:A:VAL:HG21	1:55:A:THR:HG21	10	0.32
(2,479)	1:53:A:VAL:HG23	1:55:A:THR:HG23	13	0.32
(2,454)	1:141:A:LEU:HD12	1:77:A:LEU:HD13	8	0.32
(2,428)	1:13:A:THR:HG21	1:12:A:ILE:H	14	0.32
(2,428)	1:13:A:THR:HG21	1:12:A:ILE:H	17	0.32
(2,428)	1:13:A:THR:HG23	1:12:A:ILE:H	18	0.32
(2,428)	1:13:A:THR:HG23	1:12:A:ILE:H	20	0.32
(2,381)	1:89:A:VAL:HG11	1:81:A:LEU:HD13	19	0.32
(2,375)	1:89:A:VAL:HG23	1:78:A:ARG:HG3	7	0.32
(2,375)	1:89:A:VAL:HG21	1:78:A:ARG:HG3	12	0.32
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	1	0.32
(2,310)	1:92:A:LEU:HD21	1:92:A:LEU:H	4	0.32
(2,310)	1:92:A:LEU:HD22	1:92:A:LEU:H	8	0.32
(2,310)	1:92:A:LEU:HD21	1:92:A:LEU:H	14	0.32
(2,310)	1:92:A:LEU:HD23	1:92:A:LEU:H	17	0.32
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD21	1	0.32
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD23	8	0.32
(2,243)	1:150:A:ILE:HD11	1:150:A:ILE:H	16	0.32
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG23	1	0.32
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE1	10	0.32
(2,151)	1:66:A:THR:HG22	1:50:A:GLU:H	11	0.32
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	8	0.31
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HB3	13	0.31
(2,4931)	1:139:A:ARG:H	1:141:A:LEU:HD12	10	0.31
(2,4899)	1:124:A:GLN:HE22	1:121:A:GLY:HA2	16	0.31
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	12	0.31
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	1	0.31
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	6	0.31
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD1	8	0.31
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG13	8	0.31
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG2	18	0.31
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	13	0.31
(2,4760)	1:5:A:VAL:HG23	1:4:A:THR:H	6	0.31
(2,4749)	1:34:A:SER:H	1:33:A:VAL:HG22	10	0.31
(2,4741)	1:5:A:VAL:HG12	1:5:A:VAL:H	5	0.31
(2,4741)	1:5:A:VAL:HG22	1:5:A:VAL:H	12	0.31
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	18	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG23	12	0.31
(2,4701)	1:44:A:GLY:H	1:110:A:PHE:HE1	14	0.31
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	8	0.31
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	9	0.31
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	17	0.31
(2,4688)	1:136:A:GLN:H	1:134:A:LEU:HD21	9	0.31
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD11	11	0.31
(2,4683)	1:137:A:ASN:H	1:141:A:LEU:H	1	0.31
(2,4631)	1:104:A:ARG:H	1:103:A:PHE:HB3	3	0.31
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	1	0.31
(2,4623)	1:134:A:LEU:HD23	1:88:A:VAL:H	3	0.31
(2,4623)	1:134:A:LEU:HD23	1:88:A:VAL:H	9	0.31
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	5	0.31
(2,4592)	1:20:A:ASP:HB3	1:21:A:ALA:H	17	0.31
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG21	17	0.31
(2,4575)	1:101:A:LEU:HD12	1:98:A:LEU:HA	12	0.31
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	10	0.31
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	2	0.31
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG12	4	0.31
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	12	0.31
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	20	0.31
(2,4480)	1:92:A:LEU:HD11	1:76:A:TRP:H	11	0.31
(2,4462)	1:62:A:LEU:HD13	1:61:A:LYS:HA	2	0.31
(2,4462)	1:62:A:LEU:HD11	1:61:A:LYS:HA	20	0.31
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	17	0.31
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	20	0.31
(2,4407)	1:14:A:LYS:HA	1:14:A:LYS:HG2	4	0.31
(2,4407)	1:14:A:LYS:HA	1:14:A:LYS:HG2	20	0.31
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD11	15	0.31
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD11	17	0.31
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD21	9	0.31
(2,4327)	1:33:A:VAL:HG22	1:122:A:LEU:H	6	0.31
(2,4319)	1:115:A:ILE:HG21	1:118:A:ARG:HB3	3	0.31
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	1	0.31
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	16	0.31
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	14	0.31
(2,4218)	1:93:A:PRO:HA	1:93:A:PRO:HG3	3	0.31
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	6	0.31
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	12	0.31
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	13	0.31
(2,4138)	1:137:A:ASN:HB3	1:134:A:LEU:HB3	5	0.31
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	10	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	18	0.31
(2,4118)	1:5:A:VAL:HG22	1:4:A:THR:HA	12	0.31
(2,4110)	1:96:A:ALA:HB3	1:97:A:PHE:HB3	5	0.31
(2,4110)	1:96:A:ALA:HB3	1:97:A:PHE:HB3	12	0.31
(2,4103)	1:51:A:ILE:HG22	1:60:A:PHE:HE2	19	0.31
(2,4102)	1:51:A:ILE:HG23	1:53:A:VAL:HB	17	0.31
(2,4094)	1:115:A:ILE:HG23	1:119:A:LYS:H	9	0.31
(2,4094)	1:115:A:ILE:HG22	1:119:A:LYS:H	19	0.31
(2,4079)	1:152:A:LYS:HB3	1:152:A:LYS:HD3	17	0.31
(2,4071)	1:81:A:LEU:HD13	1:141:A:LEU:H	5	0.31
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD12	1	0.31
(2,4042)	1:45:A:ARG:HD2	1:41:A:VAL:HA	10	0.31
(2,4008)	1:159:A:ILE:HD12	1:139:A:ARG:HB3	12	0.31
(2,3959)	1:109:A:ILE:HD13	1:110:A:PHE:HE1	12	0.31
(2,3943)	1:115:A:ILE:HD11	1:112:A:ASP:HB2	19	0.31
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	1	0.31
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	10	0.31
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	13	0.31
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	15	0.31
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	16	0.31
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	7	0.31
(2,3894)	1:92:A:LEU:HD22	1:93:A:PRO:HG2	14	0.31
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	17	0.31
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	15	0.31
(2,3849)	1:53:A:VAL:HG21	1:55:A:THR:HG22	18	0.31
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	16	0.31
(2,3793)	1:130:A:ALA:HB1	1:145:A:LEU:HD13	2	0.31
(2,3788)	1:152:A:LYS:HA	1:152:A:LYS:HD3	18	0.31
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	19	0.31
(2,3728)	1:89:A:VAL:HG13	1:78:A:ARG:HG2	16	0.31
(2,3726)	1:89:A:VAL:HG22	1:78:A:ARG:HA	15	0.31
(2,3707)	1:92:A:LEU:HD21	1:78:A:ARG:H	9	0.31
(2,3707)	1:92:A:LEU:HD23	1:78:A:ARG:H	10	0.31
(2,3705)	1:92:A:LEU:HG	1:93:A:PRO:HD3	16	0.31
(2,3703)	1:92:A:LEU:HD12	1:75:A:GLU:HG3	3	0.31
(2,3703)	1:92:A:LEU:HD12	1:75:A:GLU:HG3	5	0.31
(2,3690)	1:150:A:ILE:HD12	1:143:A:MET:HG3	19	0.31
(2,3684)	1:155:A:THR:HG22	1:156:A:PRO:HD2	18	0.31
(2,3684)	1:155:A:THR:HG23	1:156:A:PRO:HD2	20	0.31
(2,3676)	1:11:A:LEU:HA	1:11:A:LEU:H	19	0.31
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD11	20	0.31
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	2	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB3	7	0.31
(2,3605)	1:61:A:LYS:H	1:22:A:TYR:HE1	14	0.31
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG23	1	0.31
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG22	6	0.31
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG23	12	0.31
(2,3520)	1:161:A:HIS:HB3	1:162:A:ALA:H	1	0.31
(2,3505)	1:39:A:VAL:HG12	1:37:A:GLN:HE22	4	0.31
(2,3408)	1:143:A:MET:H	1:144:A:PHE:HD2	15	0.31
(2,3115)	1:27:A:ASN:HB2	1:27:A:ASN:HD22	14	0.31
(2,3115)	1:27:A:ASN:HB2	1:27:A:ASN:HD22	18	0.31
(2,3053)	1:16:A:GLN:HG3	1:16:A:GLN:H	18	0.31
(2,2996)	1:6:A:ALA:HB2	1:6:A:ALA:H	17	0.31
(2,2972)	1:2:A:ALA:HB1	1:2:A:ALA:H	4	0.31
(2,2970)	1:2:A:ALA:H	1:1:A:THR:HA	2	0.31
(2,2938)	1:4:A:THR:HG21	1:5:A:VAL:H	14	0.31
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	1	0.31
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	3	0.31
(2,2860)	1:105:A:GLY:H	1:103:A:PHE:HD1	17	0.31
(2,2776)	1:42:A:GLY:H	1:45:A:ARG:HD3	15	0.31
(2,2690)	1:37:A:GLN:HG3	1:37:A:GLN:HE22	9	0.31
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	20	0.31
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	18	0.31
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	8	0.31
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	10	0.31
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	2	0.31
(2,2470)	1:72:A:SER:H	1:75:A:GLU:HB3	17	0.31
(2,2228)	1:89:A:VAL:HG22	1:82:A:GLU:HB2	1	0.31
(2,2210)	1:77:A:LEU:HD11	1:144:A:PHE:HD2	17	0.31
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	14	0.31
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG21	9	0.31
(2,2094)	1:98:A:LEU:HD22	1:97:A:PHE:HZ	12	0.31
(2,2086)	1:8:A:THR:HG22	1:8:A:THR:HB	2	0.31
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	4	0.31
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	13	0.31
(2,2005)	1:51:A:ILE:HD11	1:69:A:ARG:HA	1	0.31
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	17	0.31
(2,1915)	1:134:A:LEU:HD23	1:86:A:LYS:HB3	13	0.31
(2,1813)	1:86:A:LYS:HG3	1:86:A:LYS:HA	5	0.31
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	3	0.31
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	1	0.31
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	19	0.31
(2,1709)	1:20:A:ASP:HA	1:21:A:ALA:HB3	16	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1679)	1:126:A:ILE:HG23	1:31:A:ILE:HG23	2	0.31
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG23	1	0.31
(2,1611)	1:66:A:THR:HG22	1:50:A:GLU:HB2	4	0.31
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD12	5	0.31
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD13	6	0.31
(2,1583)	1:141:A:LEU:HD11	1:138:A:GLU:H	15	0.31
(2,1566)	1:64:A:GLU:HB3	1:64:A:GLU:H	12	0.31
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	9	0.31
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	19	0.31
(2,1525)	1:57:A:LEU:HD11	1:29:A:LEU:HA	11	0.31
(2,1525)	1:57:A:LEU:HD13	1:29:A:LEU:HA	15	0.31
(2,1525)	1:57:A:LEU:HD12	1:29:A:LEU:HA	16	0.31
(2,1520)	1:57:A:LEU:HD13	1:60:A:PHE:H	8	0.31
(2,1489)	1:29:A:LEU:HD11	1:55:A:THR:HA	1	0.31
(2,1489)	1:29:A:LEU:HD11	1:55:A:THR:HA	3	0.31
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	13	0.31
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	3	0.31
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	9	0.31
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	12	0.31
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	16	0.31
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	18	0.31
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	3	0.31
(2,1392)	1:162:A:ALA:HB2	1:162:A:ALA:HA	2	0.31
(2,1392)	1:162:A:ALA:HB2	1:162:A:ALA:HA	3	0.31
(2,1392)	1:162:A:ALA:HB3	1:162:A:ALA:HA	5	0.31
(2,1392)	1:162:A:ALA:HB2	1:162:A:ALA:HA	7	0.31
(2,1392)	1:162:A:ALA:HB2	1:162:A:ALA:HA	9	0.31
(2,1392)	1:162:A:ALA:HB1	1:162:A:ALA:HA	13	0.31
(2,1392)	1:162:A:ALA:HB1	1:162:A:ALA:HA	15	0.31
(2,1392)	1:162:A:ALA:HB1	1:162:A:ALA:HA	19	0.31
(2,1392)	1:162:A:ALA:HB1	1:162:A:ALA:HA	20	0.31
(2,1381)	1:87:A:VAL:HG21	1:135:A:ALA:HB1	15	0.31
(2,1360)	1:6:A:ALA:HB3	1:6:A:ALA:HA	17	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB1	3	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB3	5	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB2	6	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB3	8	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB3	14	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB1	15	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB2	16	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB2	17	0.31
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB3	20	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1357)	1:51:A:ILE:HG22	1:34:A:SER:H	1	0.31
(2,1357)	1:51:A:ILE:HG23	1:34:A:SER:H	20	0.31
(2,1355)	1:51:A:ILE:HG22	1:32:A:ASP:H	2	0.31
(2,1355)	1:51:A:ILE:HG21	1:32:A:ASP:H	5	0.31
(2,1335)	1:59:A:ILE:HG23	1:57:A:LEU:H	10	0.31
(2,1330)	1:115:A:ILE:HG22	1:37:A:GLN:H	18	0.31
(2,1326)	1:12:A:ILE:HG21	1:13:A:THR:HA	8	0.31
(2,1289)	1:51:A:ILE:HD12	1:33:A:VAL:HA	11	0.31
(2,1286)	1:51:A:ILE:HD11	1:144:A:PHE:HE2	13	0.31
(2,1277)	1:126:A:ILE:HD13	1:126:A:ILE:H	5	0.31
(2,1277)	1:126:A:ILE:HD12	1:126:A:ILE:H	13	0.31
(2,1276)	1:115:A:ILE:HD13	1:114:A:PHE:HD2	5	0.31
(2,1257)	1:150:A:ILE:HG23	1:152:A:LYS:HG2	16	0.31
(2,1244)	1:81:A:LEU:HD21	1:135:A:ALA:HB2	18	0.31
(2,1244)	1:81:A:LEU:HD22	1:135:A:ALA:HB1	19	0.31
(2,1233)	1:81:A:LEU:HD12	1:81:A:LEU:H	3	0.31
(2,1233)	1:81:A:LEU:HD12	1:81:A:LEU:H	9	0.31
(2,1233)	1:81:A:LEU:HD13	1:81:A:LEU:H	19	0.31
(2,1147)	1:122:A:LEU:HD11	1:93:A:PRO:HB3	1	0.31
(2,1112)	1:148:A:GLU:HB2	1:149:A:ILE:HD11	12	0.31
(2,1103)	1:57:A:LEU:HD21	1:27:A:ASN:HB3	8	0.31
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD13	1	0.31
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	18	0.31
(2,1072)	1:159:A:ILE:HD12	1:139:A:ARG:HD2	10	0.31
(2,1063)	1:159:A:ILE:HD12	1:142:A:HIS:HB3	2	0.31
(2,1018)	1:148:A:GLU:HB2	1:148:A:GLU:HG3	10	0.31
(2,1018)	1:148:A:GLU:HB2	1:148:A:GLU:HG3	15	0.31
(2,1018)	1:148:A:GLU:HB2	1:148:A:GLU:HG3	20	0.31
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD12	4	0.31
(2,999)	1:101:A:LEU:HD11	1:101:A:LEU:HA	5	0.31
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG23	6	0.31
(2,918)	1:109:A:ILE:HG21	1:114:A:PHE:HE1	5	0.31
(2,823)	1:117:A:GLU:HG3	1:118:A:ARG:H	19	0.31
(2,763)	1:36:A:PRO:HG3	1:115:A:ILE:HD13	14	0.31
(2,748)	1:122:A:LEU:HD22	1:122:A:LEU:H	15	0.31
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	1	0.31
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG22	16	0.31
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	10	0.31
(2,525)	1:122:A:LEU:HD11	1:122:A:LEU:H	6	0.31
(2,520)	1:122:A:LEU:HD11	1:125:A:PHE:HD2	15	0.31
(2,427)	1:13:A:THR:HG22	1:13:A:THR:HB	2	0.31
(2,427)	1:13:A:THR:HG22	1:13:A:THR:HB	7	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,427)	1:13:A:THR:HG23	1:13:A:THR:HB	12	0.31
(2,375)	1:89:A:VAL:HG23	1:78:A:ARG:HG3	8	0.31
(2,375)	1:89:A:VAL:HG23	1:78:A:ARG:HG3	11	0.31
(2,357)	1:89:A:VAL:HG13	1:125:A:PHE:HZ	12	0.31
(2,355)	1:89:A:VAL:HG13	1:129:A:VAL:H	18	0.31
(2,291)	1:92:A:LEU:HD21	1:93:A:PRO:HD3	4	0.31
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE2	16	0.31
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE2	17	0.31
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	1	0.31
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	9	0.3
(2,4899)	1:124:A:GLN:HE22	1:123:A:GLU:HA	15	0.3
(2,4838)	1:65:A:SER:H	1:55:A:THR:HG22	18	0.3
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	19	0.3
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	18	0.3
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	6	0.3
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG13	10	0.3
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	15	0.3
(2,4727)	1:33:A:VAL:HG22	1:50:A:GLU:H	5	0.3
(2,4721)	1:160:A:ARG:H	1:158:A:LYS:HE3	20	0.3
(2,4715)	1:105:A:GLY:H	1:104:A:ARG:HG3	4	0.3
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	20	0.3
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	2	0.3
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD13	19	0.3
(2,4668)	1:157:A:SER:H	1:139:A:ARG:HG3	9	0.3
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	1	0.3
(2,4659)	1:0:A:GLY:H	1:-1:A:VAL:HG13	12	0.3
(2,4659)	1:0:A:GLY:H	1:-1:A:VAL:HG13	15	0.3
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	17	0.3
(2,4653)	1:146:A:GLN:H	1:67:A:VAL:HG12	8	0.3
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	5	0.3
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	6	0.3
(2,4623)	1:134:A:LEU:HD21	1:88:A:VAL:H	4	0.3
(2,4618)	1:85:A:SER:H	1:86:A:LYS:HG3	19	0.3
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG21	16	0.3
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG23	19	0.3
(2,4576)	1:54:A:LYS:HD2	1:28:A:PHE:HE1	13	0.3
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD12	19	0.3
(2,4473)	1:77:A:LEU:HD11	1:144:A:PHE:HB3	15	0.3
(2,4468)	1:77:A:LEU:HD12	1:141:A:LEU:HG	16	0.3
(2,4465)	1:61:A:LYS:HD3	1:62:A:LEU:HG	11	0.3
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	5	0.3
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	19	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4446)	1:41:A:VAL:HG23	1:41:A:VAL:HB	3	0.3
(2,4446)	1:41:A:VAL:HB	1:41:A:VAL:HG11	5	0.3
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	17	0.3
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	5	0.3
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG2	2	0.3
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	3	0.3
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	7	0.3
(2,4388)	1:30:A:GLU:HG2	1:56:A:ASN:H	16	0.3
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD12	11	0.3
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	11	0.3
(2,4351)	1:81:A:LEU:HD13	1:89:A:VAL:HG21	1	0.3
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG23	14	0.3
(2,4327)	1:33:A:VAL:HG21	1:122:A:LEU:H	8	0.3
(2,4327)	1:33:A:VAL:HG22	1:122:A:LEU:H	18	0.3
(2,4325)	1:33:A:VAL:HG21	1:119:A:LYS:HG3	6	0.3
(2,4325)	1:33:A:VAL:HG23	1:119:A:LYS:HG3	15	0.3
(2,4319)	1:115:A:ILE:HG21	1:118:A:ARG:HB3	19	0.3
(2,4295)	1:54:A:LYS:HE2	1:55:A:THR:H	18	0.3
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD2	14	0.3
(2,4272)	1:80:A:GLU:HA	1:77:A:LEU:HA	17	0.3
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	9	0.3
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	11	0.3
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	15	0.3
(2,4249)	1:12:A:ILE:HD12	1:12:A:ILE:H	10	0.3
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	7	0.3
(2,4233)	1:35:A:ASN:HB2	1:34:A:SER:HB2	16	0.3
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	1	0.3
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	2	0.3
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	3	0.3
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	11	0.3
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	6	0.3
(2,4141)	1:64:A:GLU:HG2	1:55:A:THR:H	10	0.3
(2,4110)	1:96:A:ALA:HB1	1:97:A:PHE:HB3	7	0.3
(2,4103)	1:51:A:ILE:HG21	1:60:A:PHE:HE2	12	0.3
(2,4102)	1:51:A:ILE:HG23	1:53:A:VAL:HB	13	0.3
(2,4098)	1:59:A:ILE:HG23	1:60:A:PHE:HB3	3	0.3
(2,4098)	1:59:A:ILE:HG21	1:60:A:PHE:HB3	17	0.3
(2,4082)	1:126:A:ILE:HD12	1:129:A:VAL:H	3	0.3
(2,4082)	1:126:A:ILE:HD12	1:129:A:VAL:H	7	0.3
(2,4071)	1:81:A:LEU:HD11	1:141:A:LEU:H	19	0.3
(2,4052)	1:29:A:LEU:HD21	1:57:A:LEU:HG	9	0.3
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD12	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD12	16	0.3
(2,4026)	1:152:A:LYS:HE2	1:76:A:TRP:H	17	0.3
(2,4008)	1:159:A:ILE:HD11	1:139:A:ARG:HB3	3	0.3
(2,3985)	1:104:A:ARG:HG3	1:104:A:ARG:H	1	0.3
(2,3958)	1:109:A:ILE:HD13	1:107:A:ASP:H	12	0.3
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	3	0.3
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	12	0.3
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	14	0.3
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	20	0.3
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	9	0.3
(2,3894)	1:92:A:LEU:HD23	1:93:A:PRO:HG2	5	0.3
(2,3894)	1:92:A:LEU:HD22	1:93:A:PRO:HG3	8	0.3
(2,3885)	1:122:A:LEU:HD22	1:93:A:PRO:HG2	14	0.3
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	8	0.3
(2,3869)	1:158:A:LYS:HD2	1:137:A:ASN:HD21	4	0.3
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	1	0.3
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	6	0.3
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	16	0.3
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	2	0.3
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	3	0.3
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	8	0.3
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	10	0.3
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	11	0.3
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE1	19	0.3
(2,3775)	1:126:A:ILE:HG23	1:31:A:ILE:HG23	13	0.3
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG21	20	0.3
(2,3768)	1:53:A:VAL:HG23	1:145:A:LEU:HB3	17	0.3
(2,3737)	1:87:A:VAL:HA	1:134:A:LEU:HG	10	0.3
(2,3728)	1:89:A:VAL:HG12	1:78:A:ARG:HG2	8	0.3
(2,3728)	1:89:A:VAL:HG12	1:78:A:ARG:HG2	11	0.3
(2,3728)	1:89:A:VAL:HG11	1:78:A:ARG:HG2	12	0.3
(2,3707)	1:92:A:LEU:HD22	1:78:A:ARG:H	17	0.3
(2,3702)	1:92:A:LEU:HD22	1:75:A:GLU:HG2	14	0.3
(2,3684)	1:155:A:THR:HG22	1:156:A:PRO:HD2	9	0.3
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD13	13	0.3
(2,3669)	1:60:A:PHE:HA	1:55:A:THR:HG21	15	0.3
(2,3662)	1:64:A:GLU:HA	1:54:A:LYS:HB2	10	0.3
(2,3658)	1:66:A:THR:HG22	1:52:A:ARG:HD2	9	0.3
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	13	0.3
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	16	0.3
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	17	0.3
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	20	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3631)	1:82:A:GLU:HA	1:85:A:SER:HB2	1	0.3
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	12	0.3
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	19	0.3
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB2	6	0.3
(2,3560)	1:122:A:LEU:HD12	1:121:A:GLY:H	12	0.3
(2,3466)	1:136:A:GLN:HE22	1:136:A:GLN:H	8	0.3
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	11	0.3
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	1	0.3
(2,3027)	1:10:A:ARG:HB2	1:11:A:LEU:H	9	0.3
(2,3024)	1:11:A:LEU:HD13	1:10:A:ARG:H	18	0.3
(2,2979)	1:2:A:ALA:HB2	1:3:A:GLU:H	7	0.3
(2,2972)	1:2:A:ALA:HB2	1:2:A:ALA:H	12	0.3
(2,2958)	1:34:A:SER:H	1:51:A:ILE:HG12	16	0.3
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG21	5	0.3
(2,2754)	1:18:A:LEU:H	1:17:A:ASN:HD22	1	0.3
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD12	9	0.3
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	6	0.3
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD1	4	0.3
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD1	19	0.3
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD1	20	0.3
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	4	0.3
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	13	0.3
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	17	0.3
(2,2611)	1:150:A:ILE:HD12	1:144:A:PHE:H	19	0.3
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	3	0.3
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	8	0.3
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	9	0.3
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	10	0.3
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	14	0.3
(2,2423)	1:21:A:ALA:H	1:22:A:TYR:HD2	18	0.3
(2,2338)	1:29:A:LEU:HD23	1:130:A:ALA:H	10	0.3
(2,2338)	1:29:A:LEU:HD21	1:130:A:ALA:H	11	0.3
(2,2307)	1:41:A:VAL:HG21	1:44:A:GLY:H	9	0.3
(2,2285)	1:161:A:HIS:HA	1:161:A:HIS:HD2	11	0.3
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD13	4	0.3
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD11	12	0.3
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG21	10	0.3
(2,2228)	1:89:A:VAL:HG23	1:82:A:GLU:HB2	8	0.3
(2,2228)	1:89:A:VAL:HG22	1:82:A:GLU:HB2	17	0.3
(2,2212)	1:77:A:LEU:HD11	1:144:A:PHE:HZ	2	0.3
(2,2208)	1:77:A:LEU:HB3	1:77:A:LEU:HD13	7	0.3
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	11	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	1	0.3
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG22	6	0.3
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG22	8	0.3
(2,2131)	1:29:A:LEU:HD22	1:136:A:GLN:HE21	6	0.3
(2,2131)	1:29:A:LEU:HD21	1:136:A:GLN:HE21	10	0.3
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	19	0.3
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG22	1	0.3
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG21	2	0.3
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG22	5	0.3
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG23	7	0.3
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG23	11	0.3
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG22	13	0.3
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG22	18	0.3
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG23	19	0.3
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	12	0.3
(2,1953)	1:145:A:LEU:HD21	1:141:A:LEU:HB3	11	0.3
(2,1919)	1:33:A:VAL:HG21	1:49:A:TYR:HB2	2	0.3
(2,1919)	1:33:A:VAL:HG23	1:49:A:TYR:HB2	7	0.3
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	1	0.3
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	6	0.3
(2,1793)	1:83:A:ARG:HD3	1:83:A:ARG:HA	4	0.3
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	9	0.3
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	17	0.3
(2,1712)	1:12:A:ILE:HB	1:12:A:ILE:HG12	13	0.3
(2,1709)	1:20:A:ASP:HA	1:21:A:ALA:HB1	20	0.3
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	14	0.3
(2,1671)	1:31:A:ILE:HG21	1:127:A:ASN:HD21	15	0.3
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	3	0.3
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	7	0.3
(2,1611)	1:66:A:THR:HG22	1:50:A:GLU:HB2	13	0.3
(2,1590)	1:129:A:VAL:HG23	1:141:A:LEU:HD13	3	0.3
(2,1590)	1:129:A:VAL:HG23	1:141:A:LEU:HD11	4	0.3
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD11	12	0.3
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	8	0.3
(2,1566)	1:64:A:GLU:HB3	1:64:A:GLU:H	3	0.3
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	1	0.3
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	5	0.3
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	6	0.3
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	13	0.3
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	15	0.3
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	16	0.3
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	8	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	13	0.3
(2,1525)	1:57:A:LEU:HD13	1:29:A:LEU:HA	5	0.3
(2,1500)	1:57:A:LEU:HD23	1:58:A:PRO:HD2	6	0.3
(2,1489)	1:29:A:LEU:HD13	1:55:A:THR:HA	8	0.3
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	2	0.3
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	6	0.3
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	15	0.3
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	19	0.3
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	18	0.3
(2,1401)	1:39:A:VAL:HG23	1:46:A:PHE:HE2	1	0.3
(2,1401)	1:39:A:VAL:HG21	1:46:A:PHE:HE2	7	0.3
(2,1392)	1:162:A:ALA:HB3	1:162:A:ALA:HA	4	0.3
(2,1392)	1:162:A:ALA:HB1	1:162:A:ALA:HA	10	0.3
(2,1386)	1:135:A:ALA:HB1	1:130:A:ALA:H	8	0.3
(2,1386)	1:135:A:ALA:HB2	1:130:A:ALA:H	10	0.3
(2,1384)	1:135:A:ALA:HB2	1:137:A:ASN:H	10	0.3
(2,1371)	1:21:A:ALA:HB3	1:22:A:TYR:HD1	13	0.3
(2,1370)	1:21:A:ALA:HB3	1:20:A:ASP:H	4	0.3
(2,1370)	1:21:A:ALA:HB2	1:20:A:ASP:H	11	0.3
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB2	1	0.3
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB3	2	0.3
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB2	4	0.3
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB2	7	0.3
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB1	9	0.3
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB3	12	0.3
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB3	18	0.3
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB1	19	0.3
(2,1355)	1:51:A:ILE:HG22	1:32:A:ASP:H	3	0.3
(2,1355)	1:51:A:ILE:HG22	1:32:A:ASP:H	13	0.3
(2,1328)	1:115:A:ILE:HG21	1:114:A:PHE:HE2	1	0.3
(2,1328)	1:115:A:ILE:HG22	1:114:A:PHE:HE1	18	0.3
(2,1328)	1:115:A:ILE:HG21	1:114:A:PHE:HE2	19	0.3
(2,1318)	1:148:A:GLU:HB2	1:149:A:ILE:HG21	7	0.3
(2,1289)	1:51:A:ILE:HD12	1:33:A:VAL:HA	3	0.3
(2,1289)	1:51:A:ILE:HD13	1:33:A:VAL:HA	4	0.3
(2,1289)	1:51:A:ILE:HD12	1:33:A:VAL:HA	14	0.3
(2,1286)	1:51:A:ILE:HD13	1:144:A:PHE:HE2	10	0.3
(2,1277)	1:126:A:ILE:HD12	1:126:A:ILE:H	19	0.3
(2,1276)	1:115:A:ILE:HD11	1:114:A:PHE:HD2	8	0.3
(2,1276)	1:115:A:ILE:HD12	1:114:A:PHE:HD1	18	0.3
(2,1233)	1:81:A:LEU:HD11	1:81:A:LEU:H	1	0.3
(2,1233)	1:81:A:LEU:HD13	1:81:A:LEU:H	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1197)	1:29:A:LEU:HD23	1:136:A:GLN:HG3	15	0.3
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD12	1	0.3
(2,1103)	1:57:A:LEU:HD23	1:27:A:ASN:HB3	12	0.3
(2,1103)	1:57:A:LEU:HD21	1:27:A:ASN:HB3	14	0.3
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD11	9	0.3
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	9	0.3
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	8	0.3
(2,1063)	1:159:A:ILE:HD11	1:142:A:HIS:HB3	5	0.3
(2,1063)	1:159:A:ILE:HD11	1:142:A:HIS:HB3	19	0.3
(2,1032)	1:148:A:GLU:HG3	1:67:A:VAL:HG13	1	0.3
(2,1018)	1:148:A:GLU:HB2	1:148:A:GLU:HG3	7	0.3
(2,1018)	1:148:A:GLU:HB2	1:148:A:GLU:HG3	12	0.3
(2,1008)	1:101:A:LEU:HG	1:101:A:LEU:H	7	0.3
(2,999)	1:101:A:LEU:HD13	1:101:A:LEU:HA	6	0.3
(2,999)	1:101:A:LEU:HD13	1:101:A:LEU:HA	16	0.3
(2,961)	1:37:A:GLN:HG2	1:39:A:VAL:HG21	15	0.3
(2,941)	1:109:A:ILE:HD13	1:107:A:ASP:HB3	7	0.3
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG22	2	0.3
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG23	16	0.3
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	4	0.3
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	12	0.3
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG23	10	0.3
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	2	0.3
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	7	0.3
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB2	7	0.3
(2,608)	1:129:A:VAL:HG12	1:126:A:ILE:HA	3	0.3
(2,598)	1:129:A:VAL:HG12	1:125:A:PHE:HD1	17	0.3
(2,428)	1:13:A:THR:HG22	1:12:A:ILE:H	8	0.3
(2,427)	1:13:A:THR:HG22	1:13:A:THR:HB	1	0.3
(2,427)	1:13:A:THR:HG22	1:13:A:THR:HB	3	0.3
(2,427)	1:13:A:THR:HG23	1:13:A:THR:HB	4	0.3
(2,427)	1:13:A:THR:HG21	1:13:A:THR:HB	5	0.3
(2,427)	1:13:A:THR:HG22	1:13:A:THR:HB	6	0.3
(2,427)	1:13:A:THR:HG23	1:13:A:THR:HB	8	0.3
(2,427)	1:13:A:THR:HG21	1:13:A:THR:HB	9	0.3
(2,427)	1:13:A:THR:HG22	1:13:A:THR:HB	11	0.3
(2,427)	1:13:A:THR:HG23	1:13:A:THR:HB	13	0.3
(2,427)	1:13:A:THR:HG23	1:13:A:THR:HB	14	0.3
(2,427)	1:13:A:THR:HG21	1:13:A:THR:HB	16	0.3
(2,427)	1:13:A:THR:HG21	1:13:A:THR:HB	18	0.3
(2,427)	1:13:A:THR:HG23	1:13:A:THR:HB	19	0.3
(2,427)	1:13:A:THR:HG21	1:13:A:THR:HB	20	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD11	5	0.3
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD11	10	0.3
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD12	15	0.3
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	6	0.3
(2,312)	1:92:A:LEU:HD22	1:74:A:PHE:HA	6	0.3
(2,310)	1:92:A:LEU:HD21	1:92:A:LEU:H	18	0.3
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD21	17	0.3
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD2	4	0.3
(2,151)	1:66:A:THR:HG21	1:50:A:GLU:H	1	0.3
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	6	0.3
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE3	13	0.29
(2,4872)	1:113:A:ASN:H	1:117:A:GLU:HG2	12	0.29
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	20	0.29
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	7	0.29
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	6	0.29
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	17	0.29
(2,4745)	1:62:A:LEU:H	1:146:A:GLN:HB3	2	0.29
(2,4745)	1:62:A:LEU:H	1:146:A:GLN:HB3	11	0.29
(2,4741)	1:5:A:VAL:HG23	1:5:A:VAL:H	17	0.29
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	4	0.29
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	6	0.29
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	16	0.29
(2,4701)	1:44:A:GLY:H	1:110:A:PHE:HE1	9	0.29
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	16	0.29
(2,4680)	1:137:A:ASN:H	1:134:A:LEU:HB3	3	0.29
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	11	0.29
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	4	0.29
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	7	0.29
(2,4659)	1:0:A:GLY:H	1:-1:A:VAL:HG12	1	0.29
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	15	0.29
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	7	0.29
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG2	3	0.29
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	12	0.29
(2,4618)	1:85:A:SER:H	1:86:A:LYS:HG3	5	0.29
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD21	12	0.29
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	12	0.29
(2,4575)	1:101:A:LEU:HD12	1:98:A:LEU:HA	10	0.29
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	12	0.29
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG11	9	0.29
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	16	0.29
(2,4506)	1:77:A:LEU:HD11	1:81:A:LEU:HA	16	0.29
(2,4498)	1:137:A:ASN:HB2	1:138:A:GLU:HG2	18	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4496)	1:137:A:ASN:HA	1:59:A:ILE:HD11	9	0.29
(2,4480)	1:92:A:LEU:HD12	1:76:A:TRP:H	12	0.29
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD13	19	0.29
(2,4462)	1:62:A:LEU:HD12	1:61:A:LYS:HA	13	0.29
(2,4446)	1:41:A:VAL:HG23	1:41:A:VAL:HB	8	0.29
(2,4446)	1:41:A:VAL:HG21	1:41:A:VAL:HB	14	0.29
(2,4446)	1:41:A:VAL:HG23	1:41:A:VAL:HB	15	0.29
(2,4437)	1:31:A:ILE:HG23	1:53:A:VAL:HG12	6	0.29
(2,4411)	1:9:A:ARG:HB2	1:9:A:ARG:HG3	14	0.29
(2,4407)	1:14:A:LYS:HA	1:14:A:LYS:HG2	3	0.29
(2,4401)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	1	0.29
(2,4401)	1:9:A:ARG:HD2	1:9:A:ARG:HG2	5	0.29
(2,4401)	1:9:A:ARG:HD3	1:9:A:ARG:HG2	7	0.29
(2,4401)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	10	0.29
(2,4401)	1:9:A:ARG:HD2	1:9:A:ARG:HG3	14	0.29
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD13	4	0.29
(2,4374)	1:43:A:ARG:HB2	1:43:A:ARG:HD2	13	0.29
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD12	8	0.29
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD23	5	0.29
(2,4325)	1:33:A:VAL:HG22	1:119:A:LYS:HG3	2	0.29
(2,4325)	1:33:A:VAL:HG23	1:119:A:LYS:HG3	18	0.29
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	4	0.29
(2,4259)	1:63:A:LYS:HD3	1:63:A:LYS:HE3	6	0.29
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	2	0.29
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	8	0.29
(2,4218)	1:93:A:PRO:HA	1:93:A:PRO:HG3	9	0.29
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	4	0.29
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	5	0.29
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	7	0.29
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	15	0.29
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	16	0.29
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	17	0.29
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	19	0.29
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	20	0.29
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	17	0.29
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	18	0.29
(2,4183)	1:129:A:VAL:HG12	1:141:A:LEU:HD12	17	0.29
(2,4158)	1:57:A:LEU:HD11	1:57:A:LEU:HA	3	0.29
(2,4141)	1:64:A:GLU:HG2	1:55:A:THR:H	6	0.29
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	9	0.29
(2,4122)	1:33:A:VAL:HG13	1:144:A:PHE:HE1	17	0.29
(2,4118)	1:5:A:VAL:HG22	1:4:A:THR:HA	3	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4118)	1:5:A:VAL:HG22	1:4:A:THR:HA	9	0.29
(2,4118)	1:5:A:VAL:HG21	1:4:A:THR:HA	11	0.29
(2,4118)	1:5:A:VAL:HG22	1:4:A:THR:HA	13	0.29
(2,4110)	1:96:A:ALA:HB1	1:97:A:PHE:HB3	10	0.29
(2,4103)	1:51:A:ILE:HG21	1:60:A:PHE:HE2	2	0.29
(2,4082)	1:126:A:ILE:HD11	1:129:A:VAL:H	6	0.29
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	14	0.29
(2,4026)	1:152:A:LYS:HE2	1:76:A:TRP:H	13	0.29
(2,4023)	1:12:A:ILE:HD11	1:10:A:ARG:HD3	5	0.29
(2,3979)	1:9:A:ARG:HB3	1:9:A:ARG:HD2	4	0.29
(2,3979)	1:9:A:ARG:HB3	1:9:A:ARG:HD2	7	0.29
(2,3959)	1:109:A:ILE:HD12	1:110:A:PHE:HE1	13	0.29
(2,3909)	1:119:A:LYS:HD3	1:35:A:ASN:H	6	0.29
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	10	0.29
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	2	0.29
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	6	0.29
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	6	0.29
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	13	0.29
(2,3894)	1:92:A:LEU:HD22	1:93:A:PRO:HG2	19	0.29
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	6	0.29
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	12	0.29
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	9	0.29
(2,3847)	1:159:A:ILE:HG23	1:136:A:GLN:HB2	2	0.29
(2,3826)	1:14:A:LYS:HE2	1:14:A:LYS:HG2	12	0.29
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	14	0.29
(2,3775)	1:126:A:ILE:HG23	1:31:A:ILE:HG21	16	0.29
(2,3768)	1:53:A:VAL:HG23	1:145:A:LEU:HB3	7	0.29
(2,3728)	1:89:A:VAL:HG11	1:78:A:ARG:HG2	7	0.29
(2,3728)	1:89:A:VAL:HG13	1:78:A:ARG:HG2	14	0.29
(2,3707)	1:92:A:LEU:HD22	1:78:A:ARG:H	11	0.29
(2,3684)	1:155:A:THR:HG21	1:156:A:PRO:HD2	5	0.29
(2,3684)	1:155:A:THR:HG23	1:156:A:PRO:HD2	14	0.29
(2,3684)	1:155:A:THR:HG23	1:156:A:PRO:HD2	16	0.29
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	19	0.29
(2,3630)	1:84:A:GLU:HA	1:84:A:GLU:HB2	14	0.29
(2,3630)	1:84:A:GLU:HA	1:84:A:GLU:HB2	16	0.29
(2,3630)	1:84:A:GLU:HA	1:84:A:GLU:HB2	18	0.29
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	5	0.29
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	15	0.29
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	11	0.29
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	17	0.29
(2,3408)	1:143:A:MET:H	1:144:A:PHE:HD1	20	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3289)	1:150:A:ILE:HD12	1:73:A:ASP:H	1	0.29
(2,3284)	1:68:A:ARG:H	1:50:A:GLU:HG2	2	0.29
(2,3254)	1:64:A:GLU:H	1:53:A:VAL:HG11	2	0.29
(2,3235)	1:54:A:LYS:H	1:31:A:ILE:HD12	9	0.29
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG21	14	0.29
(2,3016)	1:9:A:ARG:HA	1:9:A:ARG:H	12	0.29
(2,2979)	1:2:A:ALA:HB1	1:3:A:GLU:H	19	0.29
(2,2972)	1:2:A:ALA:HB2	1:2:A:ALA:H	18	0.29
(2,2938)	1:4:A:THR:HG21	1:5:A:VAL:H	3	0.29
(2,2938)	1:4:A:THR:HG21	1:5:A:VAL:H	9	0.29
(2,2938)	1:4:A:THR:HG23	1:5:A:VAL:H	12	0.29
(2,2938)	1:4:A:THR:HG23	1:5:A:VAL:H	15	0.29
(2,2938)	1:4:A:THR:HG23	1:5:A:VAL:H	20	0.29
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	7	0.29
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	8	0.29
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	12	0.29
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	2	0.29
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	3	0.29
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	11	0.29
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	13	0.29
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	18	0.29
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	10	0.29
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	14	0.29
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	18	0.29
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	16	0.29
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG22	5	0.29
(2,2611)	1:150:A:ILE:HD11	1:144:A:PHE:H	1	0.29
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	13	0.29
(2,2524)	1:83:A:ARG:HB2	1:83:A:ARG:H	5	0.29
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	1	0.29
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	16	0.29
(2,2338)	1:29:A:LEU:HD23	1:130:A:ALA:H	8	0.29
(2,2307)	1:41:A:VAL:HG21	1:44:A:GLY:H	8	0.29
(2,2307)	1:41:A:VAL:HG23	1:44:A:GLY:H	13	0.29
(2,2285)	1:161:A:HIS:HA	1:161:A:HIS:HD2	10	0.29
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD12	11	0.29
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG21	15	0.29
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG23	18	0.29
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG22	15	0.29
(2,2228)	1:89:A:VAL:HG23	1:82:A:GLU:HB2	7	0.29
(2,2210)	1:77:A:LEU:HD11	1:144:A:PHE:HD2	2	0.29
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	3	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	11	0.29
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	18	0.29
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE1	2	0.29
(2,2095)	1:134:A:LEU:HD23	1:88:A:VAL:H	7	0.29
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	14	0.29
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG21	4	0.29
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG23	8	0.29
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG21	9	0.29
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG22	14	0.29
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG23	15	0.29
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG23	16	0.29
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	3	0.29
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	14	0.29
(2,1955)	1:145:A:LEU:HB2	1:145:A:LEU:HD22	19	0.29
(2,1929)	1:141:A:LEU:HD22	1:138:A:GLU:H	8	0.29
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG23	10	0.29
(2,1915)	1:134:A:LEU:HD21	1:86:A:LYS:HB3	1	0.29
(2,1865)	1:98:A:LEU:HD13	1:94:A:GLY:HA3	15	0.29
(2,1793)	1:83:A:ARG:HD3	1:83:A:ARG:HA	12	0.29
(2,1793)	1:83:A:ARG:HD3	1:83:A:ARG:HA	20	0.29
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	2	0.29
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	10	0.29
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	13	0.29
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	15	0.29
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	2	0.29
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	11	0.29
(2,1709)	1:20:A:ASP:HA	1:21:A:ALA:HB1	13	0.29
(2,1679)	1:126:A:ILE:HG22	1:31:A:ILE:HG23	9	0.29
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	16	0.29
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD12	7	0.29
(2,1590)	1:129:A:VAL:HG21	1:141:A:LEU:HD12	13	0.29
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD11	18	0.29
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	16	0.29
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	2	0.29
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	6	0.29
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	16	0.29
(2,1511)	1:59:A:ILE:HG21	1:57:A:LEU:HG	5	0.29
(2,1489)	1:29:A:LEU:HD11	1:55:A:THR:HA	2	0.29
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	7	0.29
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	10	0.29
(2,1392)	1:162:A:ALA:HB3	1:162:A:ALA:HA	18	0.29
(2,1386)	1:135:A:ALA:HB2	1:130:A:ALA:H	12	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1384)	1:135:A:ALA:HB2	1:137:A:ASN:H	1	0.29
(2,1384)	1:135:A:ALA:HB1	1:137:A:ASN:H	9	0.29
(2,1384)	1:135:A:ALA:HB3	1:137:A:ASN:H	16	0.29
(2,1380)	1:135:A:ALA:HB1	1:141:A:LEU:HD23	11	0.29
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB2	10	0.29
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB1	14	0.29
(2,1370)	1:21:A:ALA:HB1	1:20:A:ASP:H	8	0.29
(2,1370)	1:21:A:ALA:HB1	1:20:A:ASP:H	20	0.29
(2,1359)	1:2:A:ALA:HA	1:2:A:ALA:HB2	11	0.29
(2,1355)	1:51:A:ILE:HG23	1:32:A:ASP:H	19	0.29
(2,1338)	1:59:A:ILE:HG21	1:58:A:PRO:HA	1	0.29
(2,1330)	1:115:A:ILE:HG21	1:37:A:GLN:H	3	0.29
(2,1312)	1:149:A:ILE:HG21	1:151:A:ASP:H	6	0.29
(2,1289)	1:51:A:ILE:HD12	1:33:A:VAL:HA	5	0.29
(2,1289)	1:51:A:ILE:HD12	1:33:A:VAL:HA	16	0.29
(2,1286)	1:51:A:ILE:HD11	1:144:A:PHE:HE1	6	0.29
(2,1286)	1:51:A:ILE:HD11	1:144:A:PHE:HE1	12	0.29
(2,1277)	1:126:A:ILE:HD11	1:126:A:ILE:H	2	0.29
(2,1277)	1:126:A:ILE:HD12	1:126:A:ILE:H	3	0.29
(2,1277)	1:126:A:ILE:HD12	1:126:A:ILE:H	14	0.29
(2,1276)	1:115:A:ILE:HD11	1:114:A:PHE:HD2	6	0.29
(2,1244)	1:81:A:LEU:HD23	1:135:A:ALA:HB1	10	0.29
(2,1233)	1:81:A:LEU:HD13	1:81:A:LEU:H	6	0.29
(2,1233)	1:81:A:LEU:HD12	1:81:A:LEU:H	16	0.29
(2,1147)	1:122:A:LEU:HD11	1:93:A:PRO:HB3	2	0.29
(2,1111)	1:148:A:GLU:HB3	1:149:A:ILE:HD13	9	0.29
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	15	0.29
(2,1072)	1:159:A:ILE:HD11	1:139:A:ARG:HD2	3	0.29
(2,1063)	1:159:A:ILE:HD11	1:142:A:HIS:HB3	3	0.29
(2,1063)	1:159:A:ILE:HD11	1:142:A:HIS:HB3	16	0.29
(2,1056)	1:159:A:ILE:HD12	1:139:A:ARG:H	13	0.29
(2,1050)	1:148:A:GLU:HB2	1:149:A:ILE:HG13	10	0.29
(2,1050)	1:148:A:GLU:HB2	1:149:A:ILE:HG13	20	0.29
(2,1020)	1:148:A:GLU:HB3	1:67:A:VAL:HG12	12	0.29
(2,1018)	1:148:A:GLU:HB2	1:148:A:GLU:HG3	19	0.29
(2,999)	1:101:A:LEU:HD11	1:101:A:LEU:HA	1	0.29
(2,999)	1:101:A:LEU:HD12	1:101:A:LEU:HA	8	0.29
(2,999)	1:101:A:LEU:HD12	1:101:A:LEU:HA	11	0.29
(2,999)	1:101:A:LEU:HD12	1:101:A:LEU:HA	17	0.29
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD23	7	0.29
(2,897)	1:113:A:ASN:HB2	1:117:A:GLU:HG3	8	0.29
(2,897)	1:113:A:ASN:HB2	1:117:A:GLU:HG3	11	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,798)	1:118:A:ARG:HA	1:122:A:LEU:HD22	12	0.29
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB1	6	0.29
(2,608)	1:129:A:VAL:HG11	1:126:A:ILE:HA	16	0.29
(2,542)	1:143:A:MET:HE3	1:154:A:TYR:HE1	2	0.29
(2,525)	1:122:A:LEU:HD12	1:122:A:LEU:H	19	0.29
(2,521)	1:122:A:LEU:HD13	1:49:A:TYR:HD2	5	0.29
(2,455)	1:48:A:THR:HG22	1:49:A:TYR:H	19	0.29
(2,454)	1:141:A:LEU:HD13	1:77:A:LEU:HD13	1	0.29
(2,427)	1:13:A:THR:HG21	1:13:A:THR:HB	10	0.29
(2,427)	1:13:A:THR:HG22	1:13:A:THR:HB	15	0.29
(2,427)	1:13:A:THR:HG23	1:13:A:THR:HB	17	0.29
(2,381)	1:89:A:VAL:HG11	1:81:A:LEU:HD12	5	0.29
(2,375)	1:89:A:VAL:HG21	1:78:A:ARG:HG3	14	0.29
(2,310)	1:92:A:LEU:HD23	1:92:A:LEU:H	6	0.29
(2,310)	1:92:A:LEU:HD22	1:92:A:LEU:H	7	0.29
(2,310)	1:92:A:LEU:HD23	1:92:A:LEU:H	15	0.29
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD22	2	0.29
(2,280)	1:92:A:LEU:HB2	1:92:A:LEU:HD22	19	0.29
(2,241)	1:150:A:ILE:HG23	1:151:A:ASP:H	12	0.29
(2,150)	1:66:A:THR:HG23	1:53:A:VAL:H	5	0.29
(2,150)	1:66:A:THR:HG23	1:53:A:VAL:H	9	0.29
(2,150)	1:66:A:THR:HG21	1:53:A:VAL:H	17	0.29
(2,60)	1:81:A:LEU:HA	1:85:A:SER:HB2	11	0.29
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	2	0.29
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	7	0.29
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	14	0.29
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	16	0.29
(2,4981)	1:89:A:VAL:H	1:128:A:LYS:HB2	18	0.28
(2,4945)	1:77:A:LEU:HD21	1:142:A:HIS:H	2	0.28
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	19	0.28
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	19	0.28
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	5	0.28
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	12	0.28
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	16	0.28
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	17	0.28
(2,4774)	1:11:A:LEU:H	1:10:A:ARG:HD3	3	0.28
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG2	17	0.28
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	10	0.28
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	14	0.28
(2,4755)	1:0:A:GLY:HA2	1:1:A:THR:H	3	0.28
(2,4741)	1:5:A:VAL:HG21	1:5:A:VAL:H	11	0.28
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	18	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	14	0.28
(2,4721)	1:160:A:ARG:H	1:158:A:LYS:HE3	13	0.28
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	1	0.28
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	3	0.28
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	19	0.28
(2,4702)	1:64:A:GLU:HB2	1:64:A:GLU:H	16	0.28
(2,4701)	1:44:A:GLY:H	1:110:A:PHE:HE1	11	0.28
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	2	0.28
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	18	0.28
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	1	0.28
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	6	0.28
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	13	0.28
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	2	0.28
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	16	0.28
(2,4630)	1:7:A:ASP:H	1:5:A:VAL:HG12	20	0.28
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	11	0.28
(2,4617)	1:85:A:SER:H	1:83:A:ARG:HB3	6	0.28
(2,4575)	1:101:A:LEU:HD12	1:98:A:LEU:HA	5	0.28
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	1	0.28
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG12	15	0.28
(2,4480)	1:92:A:LEU:HD11	1:76:A:TRP:H	1	0.28
(2,4466)	1:62:A:LEU:HB2	1:62:A:LEU:HG	6	0.28
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	6	0.28
(2,4446)	1:41:A:VAL:HG23	1:41:A:VAL:HB	1	0.28
(2,4446)	1:41:A:VAL:HB	1:41:A:VAL:HG13	4	0.28
(2,4446)	1:41:A:VAL:HG22	1:41:A:VAL:HB	6	0.28
(2,4446)	1:41:A:VAL:HB	1:41:A:VAL:HG13	7	0.28
(2,4446)	1:41:A:VAL:HB	1:41:A:VAL:HG11	10	0.28
(2,4446)	1:41:A:VAL:HG21	1:41:A:VAL:HB	11	0.28
(2,4446)	1:41:A:VAL:HG22	1:41:A:VAL:HB	12	0.28
(2,4446)	1:41:A:VAL:HG21	1:41:A:VAL:HB	17	0.28
(2,4446)	1:41:A:VAL:HG21	1:41:A:VAL:HB	19	0.28
(2,4446)	1:41:A:VAL:HB	1:41:A:VAL:HG12	20	0.28
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	15	0.28
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	17	0.28
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG2	10	0.28
(2,4401)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	15	0.28
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD11	2	0.28
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD11	16	0.28
(2,4340)	1:144:A:PHE:HA	1:145:A:LEU:HD13	8	0.28
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD22	18	0.28
(2,4326)	1:33:A:VAL:HG22	1:125:A:PHE:HD2	14	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	2	0.28
(2,4308)	1:99:A:ARG:HA	1:99:A:ARG:HD2	18	0.28
(2,4265)	1:68:A:ARG:HD3	1:68:A:ARG:H	5	0.28
(2,4264)	1:52:A:ARG:HD3	1:53:A:VAL:H	8	0.28
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	14	0.28
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	9	0.28
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	20	0.28
(2,4247)	1:12:A:ILE:HB	1:11:A:LEU:HA	17	0.28
(2,4243)	1:34:A:SER:HB3	1:32:A:ASP:HB3	20	0.28
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	9	0.28
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	18	0.28
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	8	0.28
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	1	0.28
(2,4183)	1:129:A:VAL:HG11	1:141:A:LEU:HD11	2	0.28
(2,4183)	1:129:A:VAL:HG11	1:141:A:LEU:HD12	13	0.28
(2,4183)	1:129:A:VAL:HG13	1:141:A:LEU:HD11	16	0.28
(2,4182)	1:136:A:GLN:HG2	1:141:A:LEU:HD13	8	0.28
(2,4157)	1:57:A:LEU:HA	1:58:A:PRO:HG3	4	0.28
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG2	6	0.28
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	14	0.28
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	1	0.28
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	7	0.28
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	1	0.28
(2,4110)	1:96:A:ALA:HB2	1:97:A:PHE:HB3	2	0.28
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	8	0.28
(2,4018)	1:101:A:LEU:HD12	1:101:A:LEU:HB3	2	0.28
(2,3985)	1:104:A:ARG:HG3	1:104:A:ARG:H	10	0.28
(2,3985)	1:104:A:ARG:HG3	1:104:A:ARG:H	13	0.28
(2,3963)	1:109:A:ILE:HD12	1:107:A:ASP:HB3	18	0.28
(2,3943)	1:115:A:ILE:HD13	1:112:A:ASP:HB2	9	0.28
(2,3943)	1:115:A:ILE:HD12	1:112:A:ASP:HB2	10	0.28
(2,3943)	1:115:A:ILE:HD13	1:112:A:ASP:HB2	16	0.28
(2,3940)	1:115:A:ILE:HD11	1:109:A:ILE:HA	9	0.28
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	15	0.28
(2,3902)	1:120:A:GLN:HB3	1:119:A:LYS:H	18	0.28
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	15	0.28
(2,3894)	1:92:A:LEU:HD21	1:93:A:PRO:HG2	10	0.28
(2,3894)	1:92:A:LEU:HD21	1:93:A:PRO:HG2	11	0.28
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	14	0.28
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	1	0.28
(2,3877)	1:123:A:GLU:HB3	1:127:A:ASN:HD22	18	0.28
(2,3869)	1:158:A:LYS:HD2	1:137:A:ASN:HD21	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3849)	1:53:A:VAL:HG21	1:55:A:THR:HG22	17	0.28
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	8	0.28
(2,3795)	1:130:A:ALA:HB2	1:131:A:GLY:H	15	0.28
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE2	6	0.28
(2,3772)	1:126:A:ILE:HG21	1:32:A:ASP:HA	20	0.28
(2,3759)	1:53:A:VAL:HG21	1:30:A:GLU:H	20	0.28
(2,3755)	1:48:A:THR:HG23	1:46:A:PHE:HB2	4	0.28
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	7	0.28
(2,3728)	1:89:A:VAL:HG11	1:78:A:ARG:HG2	3	0.28
(2,3726)	1:89:A:VAL:HG21	1:78:A:ARG:HA	5	0.28
(2,3708)	1:92:A:LEU:HD11	1:78:A:ARG:H	2	0.28
(2,3684)	1:155:A:THR:HG23	1:156:A:PRO:HD2	1	0.28
(2,3684)	1:155:A:THR:HG23	1:156:A:PRO:HD2	11	0.28
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	18	0.28
(2,3630)	1:3:A:GLU:HA	1:3:A:GLU:HG3	5	0.28
(2,3630)	1:84:A:GLU:HA	1:84:A:GLU:HB2	10	0.28
(2,3630)	1:3:A:GLU:HA	1:3:A:GLU:HG3	13	0.28
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	18	0.28
(2,3608)	1:131:A:GLY:HA2	1:29:A:LEU:HB3	3	0.28
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG21	18	0.28
(2,3560)	1:122:A:LEU:HD13	1:121:A:GLY:H	20	0.28
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	8	0.28
(2,3505)	1:39:A:VAL:HG12	1:37:A:GLN:HE22	16	0.28
(2,3301)	1:87:A:VAL:HG22	1:81:A:LEU:H	9	0.28
(2,3284)	1:68:A:ARG:H	1:50:A:GLU:HG2	16	0.28
(2,3201)	1:47:A:THR:H	1:46:A:PHE:HE2	4	0.28
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG23	16	0.28
(2,3020)	1:8:A:THR:HG23	1:9:A:ARG:H	6	0.28
(2,2979)	1:2:A:ALA:HB3	1:3:A:GLU:H	12	0.28
(2,2979)	1:2:A:ALA:HB2	1:3:A:GLU:H	16	0.28
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD23	6	0.28
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD21	18	0.28
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	6	0.28
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	16	0.28
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	17	0.28
(2,2860)	1:105:A:GLY:H	1:103:A:PHE:HD2	11	0.28
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	2	0.28
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	8	0.28
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	15	0.28
(2,2581)	1:98:A:LEU:HD21	1:99:A:ARG:H	4	0.28
(2,2568)	1:108:A:GLY:H	1:107:A:ASP:HB3	1	0.28
(2,2524)	1:83:A:ARG:HB2	1:83:A:ARG:H	12	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2519)	1:92:A:LEU:H	1:71:A:TYR:HE1	12	0.28
(2,2519)	1:92:A:LEU:H	1:71:A:TYR:HE1	20	0.28
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	5	0.28
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	7	0.28
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	7	0.28
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	19	0.28
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	15	0.28
(2,2444)	1:67:A:VAL:HG12	1:68:A:ARG:H	7	0.28
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	3	0.28
(2,2370)	1:145:A:LEU:HD22	1:136:A:GLN:HE22	6	0.28
(2,2338)	1:29:A:LEU:HD23	1:130:A:ALA:H	5	0.28
(2,2271)	1:145:A:LEU:HD11	1:60:A:PHE:HZ	1	0.28
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG21	14	0.28
(2,2222)	1:78:A:ARG:HG2	1:92:A:LEU:HD13	17	0.28
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	15	0.28
(2,2149)	1:33:A:VAL:HG12	1:32:A:ASP:H	15	0.28
(2,2131)	1:29:A:LEU:HD23	1:136:A:GLN:HE21	18	0.28
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	1	0.28
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	6	0.28
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG21	3	0.28
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG21	6	0.28
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG23	12	0.28
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG23	1	0.28
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	15	0.28
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	2	0.28
(2,1874)	1:103:A:PHE:HB2	1:104:A:ARG:HA	3	0.28
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	1	0.28
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	7	0.28
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	8	0.28
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	11	0.28
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	14	0.28
(2,1732)	1:63:A:LYS:HG2	1:63:A:LYS:HE2	16	0.28
(2,1700)	1:115:A:ILE:HG22	1:36:A:PRO:HD2	6	0.28
(2,1679)	1:126:A:ILE:HG21	1:31:A:ILE:HG23	18	0.28
(2,1672)	1:31:A:ILE:HG21	1:127:A:ASN:H	16	0.28
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	10	0.28
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	10	0.28
(2,1566)	1:64:A:GLU:HB3	1:64:A:GLU:H	17	0.28
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	4	0.28
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	8	0.28
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	11	0.28
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	17	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1500)	1:57:A:LEU:HD21	1:58:A:PRO:HD2	11	0.28
(2,1489)	1:29:A:LEU:HD13	1:55:A:THR:HA	9	0.28
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	9	0.28
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	14	0.28
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	8	0.28
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	8	0.28
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	4	0.28
(2,1392)	1:162:A:ALA:HB3	1:162:A:ALA:HA	12	0.28
(2,1392)	1:162:A:ALA:HB3	1:162:A:ALA:HA	14	0.28
(2,1386)	1:135:A:ALA:HB3	1:130:A:ALA:H	17	0.28
(2,1384)	1:135:A:ALA:HB1	1:137:A:ASN:H	14	0.28
(2,1373)	1:21:A:ALA:HA	1:21:A:ALA:HB3	7	0.28
(2,1370)	1:21:A:ALA:HB3	1:20:A:ASP:H	12	0.28
(2,1370)	1:21:A:ALA:HB1	1:20:A:ASP:H	17	0.28
(2,1360)	1:6:A:ALA:HB1	1:6:A:ALA:HA	2	0.28
(2,1351)	1:51:A:ILE:HG22	1:66:A:THR:HA	5	0.28
(2,1351)	1:51:A:ILE:HG21	1:66:A:THR:HA	14	0.28
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG21	12	0.28
(2,1289)	1:51:A:ILE:HD13	1:33:A:VAL:HA	6	0.28
(2,1289)	1:51:A:ILE:HD12	1:33:A:VAL:HA	10	0.28
(2,1289)	1:51:A:ILE:HD13	1:33:A:VAL:HA	15	0.28
(2,1289)	1:51:A:ILE:HD13	1:33:A:VAL:HA	17	0.28
(2,1289)	1:51:A:ILE:HD12	1:33:A:VAL:HA	18	0.28
(2,1286)	1:51:A:ILE:HD12	1:144:A:PHE:HE1	2	0.28
(2,1286)	1:51:A:ILE:HD11	1:144:A:PHE:HE1	4	0.28
(2,1286)	1:51:A:ILE:HD11	1:144:A:PHE:HE2	8	0.28
(2,1276)	1:115:A:ILE:HD12	1:114:A:PHE:HD2	13	0.28
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD12	4	0.28
(2,1128)	1:152:A:LYS:HE2	1:152:A:LYS:H	8	0.28
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	12	0.28
(2,1056)	1:159:A:ILE:HD13	1:139:A:ARG:H	6	0.28
(2,999)	1:101:A:LEU:HD13	1:101:A:LEU:HA	15	0.28
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD22	10	0.28
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG23	3	0.28
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG23	13	0.28
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG21	15	0.28
(2,897)	1:113:A:ASN:HB2	1:117:A:GLU:HG3	3	0.28
(2,680)	1:55:A:THR:HG23	1:63:A:LYS:HB3	19	0.28
(2,673)	1:55:A:THR:HG22	1:62:A:LEU:H	15	0.28
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	6	0.28
(2,628)	1:129:A:VAL:HG12	1:77:A:LEU:HD13	17	0.28
(2,608)	1:129:A:VAL:HG13	1:126:A:ILE:HA	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,608)	1:129:A:VAL:HG11	1:126:A:ILE:HA	11	0.28
(2,608)	1:129:A:VAL:HG11	1:126:A:ILE:HA	15	0.28
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	13	0.28
(2,542)	1:143:A:MET:HE1	1:154:A:TYR:HE1	8	0.28
(2,461)	1:48:A:THR:HG21	1:68:A:ARG:HG2	14	0.28
(2,454)	1:141:A:LEU:HD13	1:77:A:LEU:HD12	2	0.28
(2,413)	1:87:A:VAL:HG23	1:134:A:LEU:H	3	0.28
(2,413)	1:87:A:VAL:HG21	1:134:A:LEU:H	9	0.28
(2,413)	1:87:A:VAL:HG23	1:134:A:LEU:H	14	0.28
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD13	1	0.28
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD12	14	0.28
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD12	19	0.28
(2,381)	1:89:A:VAL:HG12	1:81:A:LEU:HD11	12	0.28
(2,375)	1:89:A:VAL:HG21	1:78:A:ARG:HG3	6	0.28
(2,357)	1:89:A:VAL:HG13	1:125:A:PHE:HZ	9	0.28
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	2	0.28
(2,312)	1:92:A:LEU:HD21	1:74:A:PHE:HA	13	0.28
(2,248)	1:150:A:ILE:HG22	1:144:A:PHE:HD2	1	0.28
(2,248)	1:150:A:ILE:HG22	1:144:A:PHE:HD2	12	0.28
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG22	5	0.28
(2,151)	1:66:A:THR:HG22	1:50:A:GLU:H	8	0.28
(2,133)	1:67:A:VAL:HG11	1:66:A:THR:H	19	0.28
(2,4981)	1:89:A:VAL:H	1:128:A:LYS:HB2	17	0.27
(2,4931)	1:139:A:ARG:H	1:159:A:ILE:HG22	14	0.27
(2,4899)	1:124:A:GLN:HE22	1:121:A:GLY:HA2	1	0.27
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	5	0.27
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	16	0.27
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	1	0.27
(2,4858)	1:159:A:ILE:H	1:138:A:GLU:HA	15	0.27
(2,4853)	1:100:A:GLN:HG2	1:100:A:GLN:H	10	0.27
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	16	0.27
(2,4803)	1:32:A:ASP:H	1:53:A:VAL:HG12	14	0.27
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	18	0.27
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	19	0.27
(2,4745)	1:62:A:LEU:H	1:146:A:GLN:HB3	4	0.27
(2,4741)	1:5:A:VAL:HG22	1:5:A:VAL:H	13	0.27
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	12	0.27
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	6	0.27
(2,4702)	1:64:A:GLU:HB2	1:64:A:GLU:H	12	0.27
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	7	0.27
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	15	0.27
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	1	0.27
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	8	0.27
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	5	0.27
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	13	0.27
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	14	0.27
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	17	0.27
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	18	0.27
(2,4592)	1:20:A:ASP:HB3	1:21:A:ALA:H	15	0.27
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG21	2	0.27
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	11	0.27
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	18	0.27
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	3	0.27
(2,4485)	1:95:A:LYS:HE3	1:95:A:LYS:HG3	3	0.27
(2,4454)	1:52:A:ARG:HB2	1:51:A:ILE:HG21	9	0.27
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	13	0.27
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	17	0.27
(2,4446)	1:41:A:VAL:HG22	1:41:A:VAL:HB	2	0.27
(2,4446)	1:41:A:VAL:HG23	1:41:A:VAL:HB	9	0.27
(2,4446)	1:41:A:VAL:HG22	1:41:A:VAL:HB	13	0.27
(2,4446)	1:41:A:VAL:HG21	1:41:A:VAL:HB	16	0.27
(2,4446)	1:41:A:VAL:HG21	1:41:A:VAL:HB	18	0.27
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	18	0.27
(2,4401)	1:9:A:ARG:HD2	1:9:A:ARG:HG3	3	0.27
(2,4401)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	19	0.27
(2,4327)	1:33:A:VAL:HG23	1:122:A:LEU:H	1	0.27
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	14	0.27
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD2	7	0.27
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD2	18	0.27
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	11	0.27
(2,4243)	1:34:A:SER:HB3	1:32:A:ASP:HB3	10	0.27
(2,4240)	1:31:A:ILE:HG22	1:52:A:ARG:HB2	1	0.27
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	1	0.27
(2,4215)	1:156:A:PRO:HD3	1:139:A:ARG:HG2	8	0.27
(2,4213)	1:156:A:PRO:HB3	1:156:A:PRO:HD2	8	0.27
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	2	0.27
(2,4183)	1:129:A:VAL:HG13	1:141:A:LEU:HD11	20	0.27
(2,4182)	1:141:A:LEU:HD13	1:143:A:MET:HG2	18	0.27
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG2	19	0.27
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	15	0.27
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	18	0.27
(2,4122)	1:33:A:VAL:HG12	1:144:A:PHE:HE2	19	0.27
(2,4118)	1:5:A:VAL:HG23	1:4:A:THR:HA	17	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4110)	1:96:A:ALA:HB1	1:97:A:PHE:HB3	19	0.27
(2,4082)	1:126:A:ILE:HD11	1:129:A:VAL:H	2	0.27
(2,4082)	1:126:A:ILE:HD11	1:129:A:VAL:H	12	0.27
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG12	16	0.27
(2,4018)	1:101:A:LEU:HD11	1:101:A:LEU:HB3	5	0.27
(2,4018)	1:101:A:LEU:HD12	1:101:A:LEU:HB3	8	0.27
(2,4018)	1:101:A:LEU:HD11	1:101:A:LEU:HB3	12	0.27
(2,4008)	1:159:A:ILE:HD11	1:139:A:ARG:HB3	19	0.27
(2,4006)	1:139:A:ARG:HD2	1:139:A:ARG:HB2	10	0.27
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	2	0.27
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	4	0.27
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	7	0.27
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	17	0.27
(2,3985)	1:104:A:ARG:HG3	1:104:A:ARG:H	16	0.27
(2,3985)	1:104:A:ARG:HG3	1:104:A:ARG:H	17	0.27
(2,3942)	1:115:A:ILE:HG22	1:119:A:LYS:HE2	12	0.27
(2,3916)	1:119:A:LYS:HE2	1:120:A:GLN:HB3	5	0.27
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	14	0.27
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	20	0.27
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	8	0.27
(2,3894)	1:92:A:LEU:HD23	1:93:A:PRO:HG2	12	0.27
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	2	0.27
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	5	0.27
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	6	0.27
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	4	0.27
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	13	0.27
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	14	0.27
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	11	0.27
(2,3795)	1:130:A:ALA:HB1	1:131:A:GLY:H	10	0.27
(2,3790)	1:120:A:GLN:HA	1:120:A:GLN:HG2	7	0.27
(2,3790)	1:120:A:GLN:HA	1:120:A:GLN:HG2	12	0.27
(2,3788)	1:152:A:LYS:HA	1:152:A:LYS:HD2	14	0.27
(2,3783)	1:143:A:MET:HE2	1:143:A:MET:HB3	16	0.27
(2,3775)	1:126:A:ILE:HG21	1:31:A:ILE:HG23	12	0.27
(2,3768)	1:53:A:VAL:HG23	1:145:A:LEU:HB3	20	0.27
(2,3764)	1:53:A:VAL:HG21	1:30:A:GLU:HG3	5	0.27
(2,3740)	1:87:A:VAL:HG23	1:86:A:LYS:H	16	0.27
(2,3728)	1:89:A:VAL:HG13	1:78:A:ARG:HG2	15	0.27
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	12	0.27
(2,3713)	1:90:A:PRO:HD3	1:129:A:VAL:HB	3	0.27
(2,3707)	1:92:A:LEU:HD21	1:78:A:ARG:H	5	0.27
(2,3707)	1:92:A:LEU:HD21	1:78:A:ARG:H	20	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3684)	1:155:A:THR:HG22	1:156:A:PRO:HD2	13	0.27
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD11	4	0.27
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD13	6	0.27
(2,3662)	1:64:A:GLU:HA	1:54:A:LYS:HB2	6	0.27
(2,3658)	1:66:A:THR:HG23	1:52:A:ARG:HD2	4	0.27
(2,3630)	1:84:A:GLU:HA	1:84:A:GLU:HB2	12	0.27
(2,3616)	1:32:A:ASP:HB3	1:52:A:ARG:HG3	20	0.27
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	6	0.27
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	8	0.27
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	9	0.27
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	13	0.27
(2,3560)	1:122:A:LEU:HD11	1:121:A:GLY:H	9	0.27
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	12	0.27
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	14	0.27
(2,3523)	1:162:A:ALA:HB2	1:162:A:ALA:H	4	0.27
(2,3505)	1:39:A:VAL:HG12	1:37:A:GLN:HE22	5	0.27
(2,3378)	1:112:A:ASP:HB3	1:113:A:ASN:H	1	0.27
(2,3289)	1:150:A:ILE:HD12	1:73:A:ASP:H	3	0.27
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD1	2	0.27
(2,3252)	1:62:A:LEU:HD23	1:64:A:GLU:H	7	0.27
(2,3252)	1:62:A:LEU:HD22	1:64:A:GLU:H	11	0.27
(2,3201)	1:47:A:THR:H	1:46:A:PHE:HE2	7	0.27
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD23	6	0.27
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD21	13	0.27
(2,3088)	1:22:A:TYR:HB3	1:23:A:GLY:H	14	0.27
(2,3066)	1:16:A:GLN:HE21	1:16:A:GLN:HB2	8	0.27
(2,3056)	1:16:A:GLN:H	1:16:A:GLN:HE22	14	0.27
(2,3019)	1:9:A:ARG:H	1:7:A:ASP:HB2	9	0.27
(2,3012)	1:8:A:THR:H	1:7:A:ASP:HB2	20	0.27
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD21	7	0.27
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD21	13	0.27
(2,2938)	1:4:A:THR:HG22	1:5:A:VAL:H	5	0.27
(2,2938)	1:4:A:THR:HG22	1:5:A:VAL:H	13	0.27
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	2	0.27
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	13	0.27
(2,2833)	1:113:A:ASN:HD22	1:113:A:ASN:HA	9	0.27
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	19	0.27
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	4	0.27
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	8	0.27
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	20	0.27
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	1	0.27
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	2	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	4	0.27
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	5	0.27
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	6	0.27
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG23	1	0.27
(2,2571)	1:96:A:ALA:H	1:95:A:LYS:HB2	15	0.27
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD23	6	0.27
(2,2524)	1:83:A:ARG:HB2	1:83:A:ARG:H	20	0.27
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	14	0.27
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	19	0.27
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	15	0.27
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	13	0.27
(2,2444)	1:67:A:VAL:HG12	1:68:A:ARG:H	12	0.27
(2,2436)	1:61:A:LYS:H	1:159:A:ILE:HG22	10	0.27
(2,2423)	1:21:A:ALA:H	1:22:A:TYR:HD1	14	0.27
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	17	0.27
(2,2212)	1:77:A:LEU:HD13	1:144:A:PHE:HZ	20	0.27
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG21	14	0.27
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	4	0.27
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	6	0.27
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	13	0.27
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG23	17	0.27
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG23	20	0.27
(2,2011)	1:134:A:LEU:HD12	1:88:A:VAL:H	7	0.27
(2,1952)	1:45:A:ARG:HD3	1:38:A:THR:HG22	10	0.27
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	20	0.27
(2,1898)	1:115:A:ILE:HG23	1:116:A:GLU:HB2	11	0.27
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	4	0.27
(2,1793)	1:83:A:ARG:HD3	1:83:A:ARG:HA	5	0.27
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	6	0.27
(2,1625)	1:160:A:ARG:HD3	1:159:A:ILE:HB	4	0.27
(2,1612)	1:66:A:THR:HG21	1:50:A:GLU:HB3	14	0.27
(2,1590)	1:129:A:VAL:HG21	1:141:A:LEU:HD11	16	0.27
(2,1583)	1:141:A:LEU:HD11	1:138:A:GLU:H	14	0.27
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	12	0.27
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	12	0.27
(2,1525)	1:57:A:LEU:HD12	1:29:A:LEU:HA	19	0.27
(2,1500)	1:57:A:LEU:HD21	1:58:A:PRO:HD2	19	0.27
(2,1489)	1:29:A:LEU:HD13	1:55:A:THR:HA	6	0.27
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	2	0.27
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	11	0.27
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	14	0.27
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	13	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	5	0.27
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	8	0.27
(2,1392)	1:162:A:ALA:HB3	1:162:A:ALA:HA	16	0.27
(2,1384)	1:135:A:ALA:HB3	1:137:A:ASN:H	7	0.27
(2,1384)	1:135:A:ALA:HB1	1:137:A:ASN:H	17	0.27
(2,1380)	1:135:A:ALA:HB1	1:141:A:LEU:HD23	8	0.27
(2,1351)	1:51:A:ILE:HG23	1:66:A:THR:HA	3	0.27
(2,1351)	1:51:A:ILE:HG22	1:66:A:THR:HA	7	0.27
(2,1351)	1:51:A:ILE:HG21	1:66:A:THR:HA	19	0.27
(2,1339)	1:59:A:ILE:HG23	1:58:A:PRO:HD3	9	0.27
(2,1328)	1:115:A:ILE:HG23	1:114:A:PHE:HE2	20	0.27
(2,1326)	1:12:A:ILE:HG23	1:13:A:THR:HA	13	0.27
(2,1318)	1:148:A:GLU:HB2	1:149:A:ILE:HG23	19	0.27
(2,1289)	1:51:A:ILE:HD11	1:33:A:VAL:HA	7	0.27
(2,1286)	1:51:A:ILE:HD13	1:144:A:PHE:HE2	19	0.27
(2,1286)	1:51:A:ILE:HD12	1:144:A:PHE:HE2	20	0.27
(2,1276)	1:115:A:ILE:HD12	1:114:A:PHE:HD2	7	0.27
(2,1276)	1:115:A:ILE:HD12	1:114:A:PHE:HD2	14	0.27
(2,1233)	1:81:A:LEU:HD11	1:81:A:LEU:H	8	0.27
(2,1233)	1:81:A:LEU:HD13	1:81:A:LEU:H	17	0.27
(2,1212)	1:29:A:LEU:HD13	1:57:A:LEU:H	2	0.27
(2,1212)	1:29:A:LEU:HD13	1:57:A:LEU:H	4	0.27
(2,1212)	1:29:A:LEU:HD11	1:57:A:LEU:H	10	0.27
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG22	11	0.27
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD13	9	0.27
(2,1093)	1:139:A:ARG:HG2	1:154:A:TYR:HE2	12	0.27
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	1	0.27
(2,1072)	1:159:A:ILE:HD11	1:139:A:ARG:HD2	15	0.27
(2,999)	1:101:A:LEU:HD13	1:101:A:LEU:HA	20	0.27
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD23	5	0.27
(2,988)	1:102:A:PRO:HD2	1:101:A:LEU:HB3	13	0.27
(2,917)	1:109:A:ILE:HG22	1:110:A:PHE:H	8	0.27
(2,680)	1:55:A:THR:HG21	1:63:A:LYS:HB3	5	0.27
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG21	4	0.27
(2,608)	1:129:A:VAL:HG13	1:126:A:ILE:HA	5	0.27
(2,608)	1:129:A:VAL:HG11	1:126:A:ILE:HA	20	0.27
(2,596)	1:129:A:VAL:HG11	1:128:A:LYS:H	8	0.27
(2,542)	1:143:A:MET:HE3	1:154:A:TYR:HE1	1	0.27
(2,526)	1:122:A:LEU:HD13	1:75:A:GLU:H	11	0.27
(2,525)	1:122:A:LEU:HD13	1:122:A:LEU:H	18	0.27
(2,516)	1:122:A:LEU:HD11	1:92:A:LEU:HA	8	0.27
(2,413)	1:87:A:VAL:HG21	1:134:A:LEU:H	2	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,413)	1:87:A:VAL:HG22	1:134:A:LEU:H	4	0.27
(2,413)	1:87:A:VAL:HG21	1:134:A:LEU:H	10	0.27
(2,413)	1:87:A:VAL:HG22	1:134:A:LEU:H	11	0.27
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD12	4	0.27
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD13	8	0.27
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD11	16	0.27
(2,381)	1:89:A:VAL:HG13	1:81:A:LEU:HD12	9	0.27
(2,368)	1:82:A:GLU:HA	1:89:A:VAL:HG21	2	0.27
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	8	0.27
(2,312)	1:92:A:LEU:HD22	1:74:A:PHE:HA	11	0.27
(2,312)	1:92:A:LEU:HD22	1:74:A:PHE:HA	17	0.27
(2,310)	1:92:A:LEU:HD22	1:92:A:LEU:H	12	0.27
(2,291)	1:92:A:LEU:HD21	1:93:A:PRO:HD3	19	0.27
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD2	14	0.27
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG22	14	0.27
(2,150)	1:66:A:THR:HG21	1:53:A:VAL:H	13	0.27
(2,133)	1:67:A:VAL:HG13	1:66:A:THR:H	6	0.27
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	5	0.27
(2,4981)	1:89:A:VAL:H	1:128:A:LYS:HB2	12	0.26
(2,4968)	1:152:A:LYS:HD2	1:76:A:TRP:HE1	4	0.26
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HB3	7	0.26
(2,4951)	1:100:A:GLN:HE22	1:101:A:LEU:HG	19	0.26
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	14	0.26
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	9	0.26
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	6	0.26
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	10	0.26
(2,4821)	1:51:A:ILE:H	1:68:A:ARG:HG2	13	0.26
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	19	0.26
(2,4787)	1:56:A:ASN:HD22	1:24:A:PRO:HG2	4	0.26
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	8	0.26
(2,4759)	1:3:A:GLU:H	1:5:A:VAL:HG21	2	0.26
(2,4745)	1:62:A:LEU:H	1:146:A:GLN:HB3	9	0.26
(2,4741)	1:5:A:VAL:HG22	1:5:A:VAL:H	9	0.26
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	1	0.26
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	3	0.26
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	5	0.26
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	6	0.26
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	10	0.26
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	19	0.26
(2,4727)	1:33:A:VAL:HG21	1:50:A:GLU:H	16	0.26
(2,4726)	1:50:A:GLU:H	1:68:A:ARG:HG3	9	0.26
(2,4725)	1:50:A:GLU:H	1:36:A:PRO:HB3	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4725)	1:50:A:GLU:H	1:37:A:GLN:HB2	20	0.26
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG21	14	0.26
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	6	0.26
(2,4702)	1:64:A:GLU:HB2	1:64:A:GLU:H	13	0.26
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	17	0.26
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	19	0.26
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD13	2	0.26
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD11	13	0.26
(2,4673)	1:120:A:GLN:HE22	1:117:A:GLU:HB3	19	0.26
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	2	0.26
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	8	0.26
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	6	0.26
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	10	0.26
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG21	20	0.26
(2,4574)	1:88:A:VAL:HG21	1:90:A:PRO:HD2	16	0.26
(2,4534)	1:149:A:ILE:HG21	1:150:A:ILE:HG13	6	0.26
(2,4480)	1:92:A:LEU:HD11	1:76:A:TRP:H	19	0.26
(2,4473)	1:77:A:LEU:HD13	1:144:A:PHE:HB2	3	0.26
(2,4465)	1:61:A:LYS:HD3	1:62:A:LEU:HG	18	0.26
(2,4454)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	13	0.26
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	2	0.26
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG22	2	0.26
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG22	15	0.26
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG23	19	0.26
(2,4401)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	8	0.26
(2,4401)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	13	0.26
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD13	19	0.26
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD11	12	0.26
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD12	19	0.26
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD12	20	0.26
(2,4351)	1:81:A:LEU:HD13	1:89:A:VAL:HG22	11	0.26
(2,4335)	1:81:A:LEU:HD21	1:141:A:LEU:HB3	8	0.26
(2,4335)	1:59:A:ILE:HG23	1:141:A:LEU:HB3	20	0.26
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD11	17	0.26
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	14	0.26
(2,4308)	1:99:A:ARG:HA	1:99:A:ARG:HD2	13	0.26
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD2	17	0.26
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	18	0.26
(2,4249)	1:12:A:ILE:HD13	1:12:A:ILE:H	18	0.26
(2,4247)	1:12:A:ILE:HB	1:11:A:LEU:HA	11	0.26
(2,4247)	1:12:A:ILE:HB	1:11:A:LEU:HA	15	0.26
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG22	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	6	0.26
(2,4139)	1:137:A:ASN:HB3	1:141:A:LEU:HD22	8	0.26
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	19	0.26
(2,4110)	1:96:A:ALA:HB1	1:97:A:PHE:HB3	8	0.26
(2,4102)	1:51:A:ILE:HG21	1:53:A:VAL:HB	19	0.26
(2,4094)	1:115:A:ILE:HG22	1:119:A:LYS:H	17	0.26
(2,4082)	1:126:A:ILE:HD12	1:129:A:VAL:H	14	0.26
(2,4082)	1:126:A:ILE:HD13	1:129:A:VAL:H	18	0.26
(2,4079)	1:152:A:LYS:HB3	1:152:A:LYS:HD3	20	0.26
(2,4042)	1:45:A:ARG:HD2	1:41:A:VAL:HA	7	0.26
(2,4023)	1:12:A:ILE:HD12	1:10:A:ARG:HD3	3	0.26
(2,4018)	1:101:A:LEU:HD11	1:101:A:LEU:HB3	1	0.26
(2,4018)	1:101:A:LEU:HD11	1:101:A:LEU:HB3	10	0.26
(2,4018)	1:101:A:LEU:HD12	1:101:A:LEU:HB3	11	0.26
(2,4008)	1:159:A:ILE:HD12	1:139:A:ARG:HB2	14	0.26
(2,3987)	1:26:A:SER:HB2	1:27:A:ASN:HB3	6	0.26
(2,3959)	1:109:A:ILE:HD11	1:110:A:PHE:HE1	20	0.26
(2,3943)	1:115:A:ILE:HD11	1:112:A:ASP:HB2	2	0.26
(2,3943)	1:115:A:ILE:HD12	1:112:A:ASP:HB2	5	0.26
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	20	0.26
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	19	0.26
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	11	0.26
(2,3894)	1:92:A:LEU:HD21	1:93:A:PRO:HG2	15	0.26
(2,3894)	1:92:A:LEU:HD22	1:93:A:PRO:HG2	18	0.26
(2,3892)	1:93:A:PRO:HG2	1:71:A:TYR:HE1	13	0.26
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	13	0.26
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	16	0.26
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	17	0.26
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	20	0.26
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	6	0.26
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	18	0.26
(2,3849)	1:55:A:THR:HG21	1:29:A:LEU:HD13	16	0.26
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	5	0.26
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	10	0.26
(2,3790)	1:120:A:GLN:HA	1:120:A:GLN:HG2	19	0.26
(2,3772)	1:126:A:ILE:HG21	1:32:A:ASP:HA	14	0.26
(2,3740)	1:87:A:VAL:HG22	1:86:A:LYS:H	12	0.26
(2,3740)	1:87:A:VAL:HG22	1:86:A:LYS:H	13	0.26
(2,3737)	1:87:A:VAL:HA	1:134:A:LEU:HG	17	0.26
(2,3728)	1:89:A:VAL:HG12	1:78:A:ARG:HG2	13	0.26
(2,3726)	1:89:A:VAL:HG21	1:78:A:ARG:HA	18	0.26
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3684)	1:155:A:THR:HG21	1:156:A:PRO:HD2	3	0.26
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	7	0.26
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	9	0.26
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	14	0.26
(2,3630)	1:84:A:GLU:HA	1:84:A:GLU:HB2	20	0.26
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	14	0.26
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	19	0.26
(2,3616)	1:32:A:ASP:HB2	1:52:A:ARG:HG3	15	0.26
(2,3605)	1:61:A:LYS:H	1:22:A:TYR:HE1	6	0.26
(2,3560)	1:122:A:LEU:HD11	1:121:A:GLY:H	6	0.26
(2,3560)	1:122:A:LEU:HD13	1:121:A:GLY:H	7	0.26
(2,3560)	1:122:A:LEU:HD11	1:121:A:GLY:H	17	0.26
(2,3505)	1:39:A:VAL:HG12	1:37:A:GLN:HE22	15	0.26
(2,3306)	1:84:A:GLU:H	1:85:A:SER:HB2	7	0.26
(2,3306)	1:84:A:GLU:H	1:85:A:SER:HB2	11	0.26
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG21	1	0.26
(2,3029)	1:11:A:LEU:HG	1:12:A:ILE:H	8	0.26
(2,3019)	1:9:A:ARG:H	1:7:A:ASP:HB2	11	0.26
(2,3019)	1:9:A:ARG:H	1:7:A:ASP:HB2	18	0.26
(2,2942)	1:27:A:ASN:H	1:57:A:LEU:HD21	14	0.26
(2,2938)	1:4:A:THR:HG22	1:5:A:VAL:H	18	0.26
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	11	0.26
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	14	0.26
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	20	0.26
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	5	0.26
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	3	0.26
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	9	0.26
(2,2726)	1:19:A:ASN:HD21	1:21:A:ALA:HB1	17	0.26
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	7	0.26
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	5	0.26
(2,2700)	1:37:A:GLN:HE22	1:39:A:VAL:H	17	0.26
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	9	0.26
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	15	0.26
(2,2611)	1:150:A:ILE:HD11	1:144:A:PHE:H	3	0.26
(2,2571)	1:96:A:ALA:H	1:95:A:LYS:HB2	7	0.26
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	13	0.26
(2,2373)	1:33:A:VAL:HG23	1:49:A:TYR:HE1	11	0.26
(2,2307)	1:41:A:VAL:HG22	1:44:A:GLY:H	20	0.26
(2,2298)	1:18:A:LEU:HD22	1:17:A:ASN:H	18	0.26
(2,2271)	1:145:A:LEU:HD12	1:60:A:PHE:HZ	7	0.26
(2,2266)	1:136:A:GLN:HA	1:136:A:GLN:HE21	13	0.26
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD12	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2232)	1:89:A:VAL:HG12	1:125:A:PHE:HD1	5	0.26
(2,2231)	1:81:A:LEU:HD13	1:89:A:VAL:HG22	8	0.26
(2,2210)	1:77:A:LEU:HD12	1:144:A:PHE:HD2	12	0.26
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	5	0.26
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	14	0.26
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	16	0.26
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG12	3	0.26
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG13	14	0.26
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG12	16	0.26
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG11	17	0.26
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG22	11	0.26
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG21	17	0.26
(2,2151)	1:122:A:LEU:HD23	1:33:A:VAL:HG13	10	0.26
(2,2149)	1:33:A:VAL:HG11	1:32:A:ASP:H	16	0.26
(2,2131)	1:29:A:LEU:HD23	1:136:A:GLN:HE21	1	0.26
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	15	0.26
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	17	0.26
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	20	0.26
(2,2077)	1:4:A:THR:HB	1:4:A:THR:HG22	10	0.26
(2,1983)	1:61:A:LYS:HB2	1:62:A:LEU:HD12	10	0.26
(2,1922)	1:33:A:VAL:HG21	1:33:A:VAL:HA	13	0.26
(2,1919)	1:33:A:VAL:HG21	1:49:A:TYR:HB2	20	0.26
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	17	0.26
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	15	0.26
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE1	18	0.26
(2,1813)	1:86:A:LYS:HG3	1:86:A:LYS:HA	9	0.26
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG22	9	0.26
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	9	0.26
(2,1612)	1:66:A:THR:HG23	1:50:A:GLU:HB3	8	0.26
(2,1611)	1:66:A:THR:HG22	1:50:A:GLU:HB2	11	0.26
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD11	2	0.26
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD11	10	0.26
(2,1590)	1:129:A:VAL:HG21	1:141:A:LEU:HD12	11	0.26
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	18	0.26
(2,1566)	1:64:A:GLU:HB3	1:64:A:GLU:H	18	0.26
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	9	0.26
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	14	0.26
(2,1500)	1:57:A:LEU:HD21	1:58:A:PRO:HD2	7	0.26
(2,1489)	1:29:A:LEU:HD12	1:55:A:THR:HA	5	0.26
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	11	0.26
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	17	0.26
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	20	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	20	0.26
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	14	0.26
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	17	0.26
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	11	0.26
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	13	0.26
(2,1386)	1:135:A:ALA:HB2	1:130:A:ALA:H	7	0.26
(2,1386)	1:135:A:ALA:HB1	1:130:A:ALA:H	14	0.26
(2,1371)	1:21:A:ALA:HB1	1:22:A:TYR:HD1	6	0.26
(2,1351)	1:51:A:ILE:HG21	1:66:A:THR:HA	12	0.26
(2,1337)	1:67:A:VAL:HG22	1:52:A:ARG:H	17	0.26
(2,1328)	1:115:A:ILE:HG21	1:114:A:PHE:HE2	14	0.26
(2,1326)	1:12:A:ILE:HG22	1:13:A:THR:HA	10	0.26
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG21	15	0.26
(2,1289)	1:51:A:ILE:HD12	1:33:A:VAL:HA	1	0.26
(2,1289)	1:51:A:ILE:HD12	1:33:A:VAL:HA	9	0.26
(2,1244)	1:81:A:LEU:HD21	1:135:A:ALA:HB3	14	0.26
(2,1212)	1:29:A:LEU:HD12	1:57:A:LEU:H	11	0.26
(2,1197)	1:29:A:LEU:HD21	1:136:A:GLN:HG3	14	0.26
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	17	0.26
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	17	0.26
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	18	0.26
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	12	0.26
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	1	0.26
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	4	0.26
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	5	0.26
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	6	0.26
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	7	0.26
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	9	0.26
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	12	0.26
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	19	0.26
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	15	0.26
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	3	0.26
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	16	0.26
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	4	0.26
(2,1072)	1:159:A:ILE:HD11	1:139:A:ARG:HD2	5	0.26
(2,1056)	1:159:A:ILE:HD12	1:139:A:ARG:H	10	0.26
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	5	0.26
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	9	0.26
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	17	0.26
(2,999)	1:101:A:LEU:HD13	1:101:A:LEU:HA	14	0.26
(2,999)	1:101:A:LEU:HD13	1:101:A:LEU:HA	19	0.26
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD21	2	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD23	6	0.26
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD22	10	0.26
(2,988)	1:102:A:PRO:HD2	1:101:A:LEU:HB3	7	0.26
(2,941)	1:109:A:ILE:HD12	1:107:A:ASP:HB3	1	0.26
(2,755)	1:122:A:LEU:HD23	1:122:A:LEU:HA	11	0.26
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG21	12	0.26
(2,623)	1:129:A:VAL:HG23	1:130:A:ALA:HB3	15	0.26
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG21	11	0.26
(2,608)	1:129:A:VAL:HG13	1:126:A:ILE:HA	4	0.26
(2,608)	1:129:A:VAL:HG11	1:126:A:ILE:HA	10	0.26
(2,608)	1:129:A:VAL:HG12	1:126:A:ILE:HA	13	0.26
(2,608)	1:129:A:VAL:HG12	1:126:A:ILE:HA	14	0.26
(2,596)	1:129:A:VAL:HG12	1:128:A:LYS:H	3	0.26
(2,596)	1:129:A:VAL:HG11	1:128:A:LYS:H	16	0.26
(2,572)	1:143:A:MET:HG2	1:144:A:PHE:H	17	0.26
(2,539)	1:143:A:MET:HE3	1:154:A:TYR:H	10	0.26
(2,531)	1:143:A:MET:HE2	1:154:A:TYR:HB2	16	0.26
(2,465)	1:47:A:THR:HG21	1:114:A:PHE:HE2	6	0.26
(2,457)	1:48:A:THR:HG22	1:46:A:PHE:HE2	15	0.26
(2,455)	1:48:A:THR:HG23	1:49:A:TYR:H	9	0.26
(2,455)	1:48:A:THR:HG21	1:49:A:TYR:H	10	0.26
(2,428)	1:13:A:THR:HG22	1:12:A:ILE:H	13	0.26
(2,413)	1:87:A:VAL:HG23	1:134:A:LEU:H	1	0.26
(2,413)	1:87:A:VAL:HG23	1:134:A:LEU:H	5	0.26
(2,413)	1:87:A:VAL:HG23	1:134:A:LEU:H	8	0.26
(2,413)	1:87:A:VAL:HG23	1:134:A:LEU:H	12	0.26
(2,413)	1:87:A:VAL:HG23	1:134:A:LEU:H	13	0.26
(2,413)	1:87:A:VAL:HG21	1:134:A:LEU:H	16	0.26
(2,413)	1:87:A:VAL:HG22	1:134:A:LEU:H	19	0.26
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD11	3	0.26
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	13	0.26
(2,311)	1:92:A:LEU:HD13	1:92:A:LEU:H	5	0.26
(2,310)	1:92:A:LEU:HD22	1:92:A:LEU:H	5	0.26
(2,310)	1:92:A:LEU:HD22	1:92:A:LEU:H	13	0.26
(2,306)	1:92:A:LEU:HD22	1:75:A:GLU:H	11	0.26
(2,257)	1:150:A:ILE:HD13	1:152:A:LYS:HE2	12	0.26
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG23	16	0.26
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	8	0.26
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	12	0.26
(2,151)	1:66:A:THR:HG21	1:50:A:GLU:H	18	0.26
(2,150)	1:66:A:THR:HG23	1:53:A:VAL:H	16	0.26
(2,133)	1:67:A:VAL:HG11	1:66:A:THR:H	15	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	4	0.26
(2,4973)	1:137:A:ASN:HD21	1:159:A:ILE:HG23	11	0.25
(2,4955)	1:100:A:GLN:HE22	1:101:A:LEU:HD22	2	0.25
(2,4945)	1:77:A:LEU:HD23	1:142:A:HIS:H	5	0.25
(2,4931)	1:139:A:ARG:H	1:141:A:LEU:HD13	5	0.25
(2,4872)	1:113:A:ASN:H	1:117:A:GLU:HG2	6	0.25
(2,4864)	1:107:A:ASP:H	1:108:A:GLY:HA2	7	0.25
(2,4864)	1:107:A:ASP:H	1:108:A:GLY:HA2	17	0.25
(2,4862)	1:158:A:LYS:H	1:139:A:ARG:HB2	7	0.25
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD11	5	0.25
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD11	16	0.25
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	13	0.25
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	17	0.25
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	15	0.25
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	20	0.25
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	3	0.25
(2,4761)	1:4:A:THR:H	1:3:A:GLU:HG3	12	0.25
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	5	0.25
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	8	0.25
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	13	0.25
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	15	0.25
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	16	0.25
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	20	0.25
(2,4725)	1:50:A:GLU:H	1:37:A:GLN:HB2	15	0.25
(2,4721)	1:160:A:ARG:H	1:158:A:LYS:HE3	6	0.25
(2,4713)	1:141:A:LEU:H	1:139:A:ARG:HG2	14	0.25
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	2	0.25
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	19	0.25
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	3	0.25
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	8	0.25
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	17	0.25
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	3	0.25
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	4	0.25
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	6	0.25
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	10	0.25
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	18	0.25
(2,4688)	1:159:A:ILE:HG12	1:136:A:GLN:H	8	0.25
(2,4682)	1:81:A:LEU:HD21	1:137:A:ASN:H	4	0.25
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	15	0.25
(2,4662)	1:153:A:SER:H	1:153:A:SER:HB3	5	0.25
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	7	0.25
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	4	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	10	0.25
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	19	0.25
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	16	0.25
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	8	0.25
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	8	0.25
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD23	2	0.25
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD21	17	0.25
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG23	1	0.25
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG12	3	0.25
(2,4534)	1:149:A:ILE:HG23	1:150:A:ILE:HG13	2	0.25
(2,4516)	1:72:A:SER:HB3	1:75:A:GLU:H	20	0.25
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD13	4	0.25
(2,4462)	1:62:A:LEU:HD13	1:61:A:LYS:HA	12	0.25
(2,4432)	1:30:A:GLU:HB3	1:28:A:PHE:HE1	1	0.25
(2,4418)	1:77:A:LEU:HD11	1:144:A:PHE:H	11	0.25
(2,4414)	1:11:A:LEU:HA	1:10:A:ARG:HB2	2	0.25
(2,4413)	1:10:A:ARG:HB3	1:10:A:ARG:HG2	14	0.25
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG21	4	0.25
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG21	5	0.25
(2,4405)	1:4:A:THR:HB	1:4:A:THR:HG23	17	0.25
(2,4401)	1:9:A:ARG:HD3	1:9:A:ARG:HG2	17	0.25
(2,4391)	1:78:A:ARG:HG3	1:81:A:LEU:HD11	1	0.25
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	18	0.25
(2,4340)	1:144:A:PHE:HA	1:145:A:LEU:HD13	20	0.25
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	5	0.25
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	10	0.25
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	12	0.25
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD3	16	0.25
(2,4287)	1:86:A:LYS:HE2	1:134:A:LEU:HD12	2	0.25
(2,4267)	1:52:A:ARG:HD3	1:33:A:VAL:HA	11	0.25
(2,4240)	1:31:A:ILE:HG21	1:145:A:LEU:HB2	14	0.25
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	7	0.25
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	12	0.25
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	15	0.25
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	12	0.25
(2,4183)	1:129:A:VAL:HG13	1:141:A:LEU:HD11	18	0.25
(2,4182)	1:136:A:GLN:HG2	1:141:A:LEU:HD13	15	0.25
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	4	0.25
(2,4151)	1:57:A:LEU:HD22	1:131:A:GLY:HA3	6	0.25
(2,4151)	1:57:A:LEU:HD22	1:131:A:GLY:HA3	12	0.25
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	2	0.25
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	8	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	20	0.25
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	5	0.25
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	16	0.25
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	4	0.25
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	11	0.25
(2,4122)	1:33:A:VAL:HG12	1:144:A:PHE:HE1	12	0.25
(2,4102)	1:51:A:ILE:HG21	1:53:A:VAL:HB	12	0.25
(2,4100)	1:59:A:ILE:HG23	1:141:A:LEU:HB2	15	0.25
(2,4098)	1:59:A:ILE:HG21	1:60:A:PHE:HB3	5	0.25
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	12	0.25
(2,4058)	1:29:A:LEU:HD13	1:31:A:ILE:HA	9	0.25
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD21	2	0.25
(2,4018)	1:101:A:LEU:HD13	1:101:A:LEU:HB3	6	0.25
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	11	0.25
(2,3976)	1:104:A:ARG:HA	1:104:A:ARG:HG3	7	0.25
(2,3959)	1:109:A:ILE:HD12	1:110:A:PHE:HE1	5	0.25
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	10	0.25
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	9	0.25
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD3	12	0.25
(2,3869)	1:158:A:LYS:HD2	1:137:A:ASN:HD21	8	0.25
(2,3849)	1:55:A:THR:HG23	1:29:A:LEU:HD13	12	0.25
(2,3819)	1:128:A:LYS:HD3	1:125:A:PHE:H	7	0.25
(2,3818)	1:128:A:LYS:HE2	1:128:A:LYS:H	19	0.25
(2,3755)	1:48:A:THR:HG22	1:68:A:ARG:HD3	1	0.25
(2,3755)	1:48:A:THR:HG22	1:68:A:ARG:HD2	10	0.25
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	12	0.25
(2,3737)	1:87:A:VAL:HA	1:134:A:LEU:HG	7	0.25
(2,3728)	1:89:A:VAL:HG13	1:78:A:ARG:HG2	5	0.25
(2,3708)	1:92:A:LEU:HD13	1:78:A:ARG:H	7	0.25
(2,3707)	1:92:A:LEU:HD22	1:78:A:ARG:H	16	0.25
(2,3703)	1:92:A:LEU:HD11	1:78:A:ARG:HB2	8	0.25
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD11	8	0.25
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD12	9	0.25
(2,3662)	1:64:A:GLU:HA	1:54:A:LYS:HB2	19	0.25
(2,3650)	1:142:A:HIS:HA	1:145:A:LEU:HD23	14	0.25
(2,3630)	1:84:A:GLU:HA	1:84:A:GLU:HB2	6	0.25
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	1	0.25
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	4	0.25
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	5	0.25
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB3	14	0.25
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG23	16	0.25
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	15	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3505)	1:39:A:VAL:HG13	1:37:A:GLN:HE22	3	0.25
(2,3505)	1:39:A:VAL:HG13	1:37:A:GLN:HE22	14	0.25
(2,3378)	1:112:A:ASP:HB3	1:113:A:ASN:H	12	0.25
(2,3328)	1:158:A:LYS:HG2	1:158:A:LYS:H	5	0.25
(2,3301)	1:87:A:VAL:HG22	1:81:A:LEU:H	2	0.25
(2,3289)	1:150:A:ILE:HD11	1:73:A:ASP:H	2	0.25
(2,3289)	1:150:A:ILE:HD12	1:73:A:ASP:H	7	0.25
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG23	19	0.25
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	20	0.25
(2,3056)	1:16:A:GLN:H	1:16:A:GLN:HE22	4	0.25
(2,3037)	1:12:A:ILE:HA	1:13:A:THR:H	2	0.25
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	8	0.25
(2,2983)	1:4:A:THR:H	1:3:A:GLU:HB2	15	0.25
(2,2979)	1:2:A:ALA:HB2	1:3:A:GLU:H	1	0.25
(2,2979)	1:2:A:ALA:HB3	1:3:A:GLU:H	2	0.25
(2,2938)	1:4:A:THR:HG23	1:5:A:VAL:H	11	0.25
(2,2938)	1:4:A:THR:HG23	1:5:A:VAL:H	16	0.25
(2,2913)	1:115:A:ILE:HD13	1:37:A:GLN:H	14	0.25
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	18	0.25
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	19	0.25
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	15	0.25
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	20	0.25
(2,2831)	1:113:A:ASN:HB2	1:113:A:ASN:HD22	11	0.25
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	7	0.25
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	8	0.25
(2,2776)	1:42:A:GLY:H	1:45:A:ARG:HD3	1	0.25
(2,2776)	1:42:A:GLY:H	1:45:A:ARG:HD3	17	0.25
(2,2776)	1:42:A:GLY:H	1:45:A:ARG:HD3	19	0.25
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	6	0.25
(2,2700)	1:37:A:GLN:HE22	1:39:A:VAL:H	8	0.25
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	7	0.25
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	12	0.25
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD1	16	0.25
(2,2611)	1:150:A:ILE:HD12	1:144:A:PHE:H	15	0.25
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD22	16	0.25
(2,2519)	1:92:A:LEU:H	1:71:A:TYR:HE1	5	0.25
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	3	0.25
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	6	0.25
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	1	0.25
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	12	0.25
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	20	0.25
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2444)	1:67:A:VAL:HG13	1:68:A:ARG:H	1	0.25
(2,2444)	1:67:A:VAL:HG12	1:68:A:ARG:H	5	0.25
(2,2409)	1:109:A:ILE:HG12	1:107:A:ASP:HB3	9	0.25
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	14	0.25
(2,2346)	1:88:A:VAL:HG12	1:90:A:PRO:HD2	4	0.25
(2,2307)	1:41:A:VAL:HG21	1:44:A:GLY:H	5	0.25
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD12	3	0.25
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD12	7	0.25
(2,2212)	1:77:A:LEU:HD13	1:144:A:PHE:HZ	17	0.25
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	19	0.25
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	2	0.25
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG12	1	0.25
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG11	5	0.25
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG11	6	0.25
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG11	9	0.25
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG13	11	0.25
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG11	15	0.25
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG11	18	0.25
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG13	19	0.25
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG23	19	0.25
(2,2142)	1:31:A:ILE:HG23	1:33:A:VAL:HG11	1	0.25
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	7	0.25
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	8	0.25
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	9	0.25
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	10	0.25
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	11	0.25
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	14	0.25
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	18	0.25
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD22	10	0.25
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD21	16	0.25
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD21	19	0.25
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	5	0.25
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD11	1	0.25
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD13	6	0.25
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD11	16	0.25
(2,2017)	1:134:A:LEU:HD12	1:137:A:ASN:HB2	13	0.25
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG22	11	0.25
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	6	0.25
(2,1955)	1:145:A:LEU:HB2	1:145:A:LEU:HD21	13	0.25
(2,1922)	1:33:A:VAL:HG21	1:33:A:VAL:HA	11	0.25
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	11	0.25
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	12	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1898)	1:115:A:ILE:HG22	1:116:A:GLU:HB2	19	0.25
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	5	0.25
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	10	0.25
(2,1756)	1:92:A:LEU:HD12	1:75:A:GLU:HB2	6	0.25
(2,1756)	1:92:A:LEU:HD11	1:75:A:GLU:HB2	14	0.25
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	7	0.25
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	8	0.25
(2,1679)	1:126:A:ILE:HG23	1:31:A:ILE:HG23	11	0.25
(2,1634)	1:156:A:PRO:HA	1:154:A:TYR:HE1	8	0.25
(2,1634)	1:156:A:PRO:HA	1:154:A:TYR:HE2	19	0.25
(2,1585)	1:141:A:LEU:HD12	1:141:A:LEU:H	20	0.25
(2,1566)	1:64:A:GLU:HB3	1:64:A:GLU:H	16	0.25
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	3	0.25
(2,1525)	1:57:A:LEU:HD12	1:29:A:LEU:HA	9	0.25
(2,1511)	1:59:A:ILE:HG21	1:57:A:LEU:HG	19	0.25
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	8	0.25
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	17	0.25
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	19	0.25
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	11	0.25
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	16	0.25
(2,1384)	1:135:A:ALA:HB1	1:137:A:ASN:H	6	0.25
(2,1384)	1:135:A:ALA:HB1	1:137:A:ASN:H	13	0.25
(2,1384)	1:135:A:ALA:HB3	1:137:A:ASN:H	15	0.25
(2,1384)	1:135:A:ALA:HB3	1:137:A:ASN:H	18	0.25
(2,1384)	1:135:A:ALA:HB2	1:137:A:ASN:H	20	0.25
(2,1357)	1:51:A:ILE:HG23	1:34:A:SER:H	14	0.25
(2,1351)	1:51:A:ILE:HG23	1:66:A:THR:HA	8	0.25
(2,1351)	1:51:A:ILE:HG23	1:66:A:THR:HA	16	0.25
(2,1326)	1:12:A:ILE:HG21	1:13:A:THR:HA	12	0.25
(2,1312)	1:149:A:ILE:HG22	1:151:A:ASP:H	14	0.25
(2,1276)	1:115:A:ILE:HD13	1:114:A:PHE:HD2	17	0.25
(2,1244)	1:81:A:LEU:HD21	1:135:A:ALA:HB3	6	0.25
(2,1233)	1:81:A:LEU:HD13	1:81:A:LEU:H	13	0.25
(2,1212)	1:29:A:LEU:HD13	1:57:A:LEU:H	1	0.25
(2,1212)	1:29:A:LEU:HD13	1:57:A:LEU:H	3	0.25
(2,1212)	1:29:A:LEU:HD12	1:57:A:LEU:H	8	0.25
(2,1212)	1:29:A:LEU:HD12	1:57:A:LEU:H	9	0.25
(2,1212)	1:29:A:LEU:HD11	1:57:A:LEU:H	15	0.25
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD11	10	0.25
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD11	13	0.25
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	19	0.25
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD11	20	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	3	0.25
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	10	0.25
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	11	0.25
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	14	0.25
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	15	0.25
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	16	0.25
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	17	0.25
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	18	0.25
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	20	0.25
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	2	0.25
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	4	0.25
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	7	0.25
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	12	0.25
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	15	0.25
(2,1072)	1:159:A:ILE:HD13	1:139:A:ARG:HD2	6	0.25
(2,1057)	1:159:A:ILE:HD12	1:159:A:ILE:H	13	0.25
(2,1056)	1:159:A:ILE:HD13	1:139:A:ARG:H	11	0.25
(2,1056)	1:159:A:ILE:HD11	1:139:A:ARG:H	16	0.25
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	2	0.25
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	13	0.25
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	18	0.25
(2,999)	1:101:A:LEU:HD11	1:101:A:LEU:HA	9	0.25
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD23	5	0.25
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	4	0.25
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	15	0.25
(2,982)	1:12:A:ILE:HA	1:12:A:ILE:HG13	15	0.25
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	15	0.25
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	16	0.25
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG23	20	0.25
(2,877)	1:115:A:ILE:HG23	1:47:A:THR:HG21	15	0.25
(2,863)	1:115:A:ILE:HD13	1:114:A:PHE:HB3	9	0.25
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	9	0.25
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG22	14	0.25
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG22	18	0.25
(2,673)	1:55:A:THR:HG23	1:62:A:LEU:H	7	0.25
(2,673)	1:55:A:THR:HG23	1:62:A:LEU:H	11	0.25
(2,623)	1:129:A:VAL:HG23	1:130:A:ALA:HB3	17	0.25
(2,608)	1:129:A:VAL:HG11	1:126:A:ILE:HA	8	0.25
(2,608)	1:129:A:VAL:HG12	1:126:A:ILE:HA	19	0.25
(2,596)	1:129:A:VAL:HG11	1:128:A:LYS:H	10	0.25
(2,542)	1:143:A:MET:HE1	1:154:A:TYR:HE1	3	0.25
(2,540)	1:143:A:MET:HE1	1:76:A:TRP:HZ2	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,525)	1:122:A:LEU:HD13	1:122:A:LEU:H	4	0.25
(2,479)	1:53:A:VAL:HG23	1:55:A:THR:HG23	2	0.25
(2,461)	1:48:A:THR:HG22	1:68:A:ARG:HG2	1	0.25
(2,455)	1:48:A:THR:HG23	1:49:A:TYR:H	15	0.25
(2,413)	1:87:A:VAL:HG22	1:134:A:LEU:H	7	0.25
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD12	7	0.25
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD13	11	0.25
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD13	12	0.25
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD12	13	0.25
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD12	18	0.25
(2,372)	1:89:A:VAL:HG13	1:81:A:LEU:HB2	5	0.25
(2,357)	1:89:A:VAL:HG12	1:125:A:PHE:HZ	18	0.25
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	3	0.25
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	17	0.25
(2,310)	1:92:A:LEU:HD23	1:92:A:LEU:H	1	0.25
(2,306)	1:92:A:LEU:HD21	1:75:A:GLU:H	12	0.25
(2,248)	1:150:A:ILE:HG22	1:144:A:PHE:HD1	8	0.25
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE2	3	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	1	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	2	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	3	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	5	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	6	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	7	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	9	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	13	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	15	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	16	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	17	0.25
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	20	0.25
(2,150)	1:66:A:THR:HG21	1:53:A:VAL:H	2	0.25
(2,150)	1:66:A:THR:HG21	1:53:A:VAL:H	4	0.25
(2,150)	1:66:A:THR:HG23	1:53:A:VAL:H	18	0.25
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	20	0.25
(2,4931)	1:139:A:ARG:H	1:141:A:LEU:HD12	4	0.24
(2,4931)	1:139:A:ARG:H	1:159:A:ILE:HG21	20	0.24
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	11	0.24
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	20	0.24
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD12	17	0.24
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	5	0.24
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	12	0.24
(2,4807)	1:57:A:LEU:H	1:59:A:ILE:H	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	3	0.24
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	7	0.24
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	13	0.24
(2,4787)	1:56:A:ASN:HD22	1:24:A:PRO:HG2	15	0.24
(2,4786)	1:56:A:ASN:HD21	1:58:A:PRO:HG3	4	0.24
(2,4774)	1:11:A:LEU:H	1:10:A:ARG:HD2	18	0.24
(2,4767)	1:9:A:ARG:H	1:9:A:ARG:HD3	6	0.24
(2,4751)	1:34:A:SER:H	1:35:A:ASN:HB3	14	0.24
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	14	0.24
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	2	0.24
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	4	0.24
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	9	0.24
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	11	0.24
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	18	0.24
(2,4713)	1:143:A:MET:HE1	1:141:A:LEU:H	18	0.24
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	17	0.24
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	5	0.24
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	9	0.24
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	7	0.24
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	19	0.24
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	4	0.24
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	17	0.24
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	1	0.24
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	2	0.24
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	8	0.24
(2,4680)	1:137:A:ASN:H	1:134:A:LEU:HB3	2	0.24
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	3	0.24
(2,4668)	1:157:A:SER:H	1:139:A:ARG:HG3	1	0.24
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	1	0.24
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	12	0.24
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	13	0.24
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG3	20	0.24
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	7	0.24
(2,4589)	1:35:A:ASN:H	1:36:A:PRO:HB3	20	0.24
(2,4575)	1:101:A:LEU:HD13	1:98:A:LEU:HA	2	0.24
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	19	0.24
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	4	0.24
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	19	0.24
(2,4497)	1:59:A:ILE:HD12	1:137:A:ASN:HB2	20	0.24
(2,4484)	1:95:A:LYS:HG2	1:95:A:LYS:HE2	13	0.24
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD12	9	0.24
(2,4462)	1:62:A:LEU:HD11	1:61:A:LYS:HA	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4462)	1:62:A:LEU:HD13	1:61:A:LYS:HA	16	0.24
(2,4454)	1:31:A:ILE:HG22	1:52:A:ARG:HB2	20	0.24
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	12	0.24
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	9	0.24
(2,4418)	1:77:A:LEU:HD11	1:144:A:PHE:H	14	0.24
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG21	1	0.24
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG23	7	0.24
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG21	9	0.24
(2,4405)	1:4:A:THR:HB	1:4:A:THR:HG22	10	0.24
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG21	13	0.24
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG22	14	0.24
(2,4405)	1:4:A:THR:HB	1:4:A:THR:HG23	20	0.24
(2,4401)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	4	0.24
(2,4401)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	16	0.24
(2,4401)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	20	0.24
(2,4398)	1:62:A:LEU:HD13	1:61:A:LYS:HD2	2	0.24
(2,4327)	1:33:A:VAL:HG23	1:122:A:LEU:H	9	0.24
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	6	0.24
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG23	9	0.24
(2,4288)	1:10:A:ARG:HA	1:10:A:ARG:HD3	4	0.24
(2,4287)	1:86:A:LYS:HE3	1:134:A:LEU:HD13	12	0.24
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	1	0.24
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	3	0.24
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	15	0.24
(2,4265)	1:68:A:ARG:HD3	1:68:A:ARG:H	12	0.24
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	7	0.24
(2,4249)	1:12:A:ILE:HD13	1:12:A:ILE:H	5	0.24
(2,4247)	1:12:A:ILE:HB	1:11:A:LEU:HA	14	0.24
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG22	19	0.24
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	8	0.24
(2,4205)	1:158:A:LYS:HD3	1:159:A:ILE:H	19	0.24
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	10	0.24
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	13	0.24
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	6	0.24
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	5	0.24
(2,4183)	1:129:A:VAL:HG13	1:141:A:LEU:HD11	12	0.24
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	20	0.24
(2,4151)	1:57:A:LEU:HD23	1:131:A:GLY:HA3	7	0.24
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	4	0.24
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	2	0.24
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	9	0.24
(2,4093)	1:115:A:ILE:HG21	1:49:A:TYR:HD1	19	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4079)	1:152:A:LYS:HB3	1:152:A:LYS:HD3	4	0.24
(2,4079)	1:152:A:LYS:HB3	1:152:A:LYS:HD3	13	0.24
(2,4058)	1:29:A:LEU:HD12	1:31:A:ILE:HA	1	0.24
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD21	19	0.24
(2,4018)	1:101:A:LEU:HD11	1:101:A:LEU:HB3	9	0.24
(2,4018)	1:101:A:LEU:HD13	1:101:A:LEU:HB3	15	0.24
(2,4018)	1:11:A:LEU:HB2	1:11:A:LEU:HD23	16	0.24
(2,4018)	1:101:A:LEU:HD13	1:101:A:LEU:HB3	20	0.24
(2,3989)	1:26:A:SER:HB3	1:24:A:PRO:HB3	12	0.24
(2,3984)	1:104:A:ARG:HD2	1:104:A:ARG:HA	11	0.24
(2,3975)	1:3:A:GLU:HG2	1:3:A:GLU:HB2	9	0.24
(2,3959)	1:109:A:ILE:HD11	1:110:A:PHE:HE1	3	0.24
(2,3907)	1:119:A:LYS:HE3	1:116:A:GLU:H	6	0.24
(2,3907)	1:119:A:LYS:HE3	1:116:A:GLU:H	15	0.24
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	16	0.24
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	2	0.24
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	10	0.24
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	1	0.24
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	2	0.24
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	3	0.24
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	4	0.24
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	20	0.24
(2,3894)	1:92:A:LEU:HD22	1:93:A:PRO:HG2	4	0.24
(2,3890)	1:93:A:PRO:HG3	1:92:A:LEU:H	20	0.24
(2,3877)	1:123:A:GLU:HB3	1:127:A:ASN:HD22	3	0.24
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	10	0.24
(2,3849)	1:55:A:THR:HG22	1:29:A:LEU:HD13	19	0.24
(2,3768)	1:53:A:VAL:HG22	1:145:A:LEU:HB3	18	0.24
(2,3748)	1:0:A:GLY:HA2	1:1:A:THR:HG23	13	0.24
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	17	0.24
(2,3736)	1:58:A:PRO:HG2	1:59:A:ILE:H	14	0.24
(2,3736)	1:58:A:PRO:HG2	1:59:A:ILE:H	15	0.24
(2,3726)	1:89:A:VAL:HG23	1:78:A:ARG:HA	7	0.24
(2,3703)	1:92:A:LEU:HD13	1:75:A:GLU:HG3	9	0.24
(2,3702)	1:92:A:LEU:HD23	1:75:A:GLU:HG2	5	0.24
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD13	2	0.24
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	8	0.24
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	9	0.24
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB1	15	0.24
(2,3505)	1:39:A:VAL:HG11	1:37:A:GLN:HE22	1	0.24
(2,3505)	1:39:A:VAL:HG12	1:37:A:GLN:HE22	10	0.24
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	9	0.24
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	11	0.24
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	14	0.24
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	16	0.24
(2,3306)	1:84:A:GLU:H	1:85:A:SER:HB2	5	0.24
(2,3301)	1:87:A:VAL:HG21	1:81:A:LEU:H	3	0.24
(2,3289)	1:150:A:ILE:HD12	1:73:A:ASP:H	6	0.24
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD1	14	0.24
(2,3249)	1:62:A:LEU:H	1:60:A:PHE:HD2	15	0.24
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG21	17	0.24
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD21	14	0.24
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	3	0.24
(2,2995)	1:4:A:THR:HA	1:5:A:VAL:H	3	0.24
(2,2977)	1:3:A:GLU:HB2	1:3:A:GLU:H	2	0.24
(2,2938)	1:4:A:THR:HG23	1:5:A:VAL:H	7	0.24
(2,2913)	1:115:A:ILE:HD13	1:37:A:GLN:H	18	0.24
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	10	0.24
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	15	0.24
(2,2900)	1:50:A:GLU:H	1:68:A:ARG:HG2	7	0.24
(2,2833)	1:113:A:ASN:HD22	1:113:A:ASN:HA	8	0.24
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	1	0.24
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	2	0.24
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	5	0.24
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	6	0.24
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	12	0.24
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	13	0.24
(2,2831)	1:113:A:ASN:HB2	1:113:A:ASN:HD22	4	0.24
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	2	0.24
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	4	0.24
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	20	0.24
(2,2783)	1:41:A:VAL:H	1:45:A:ARG:HD3	15	0.24
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD12	2	0.24
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD12	7	0.24
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	7	0.24
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	13	0.24
(2,2700)	1:37:A:GLN:HE22	1:39:A:VAL:H	2	0.24
(2,2700)	1:37:A:GLN:HE22	1:39:A:VAL:H	20	0.24
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	3	0.24
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	20	0.24
(2,2611)	1:150:A:ILE:HD13	1:144:A:PHE:H	2	0.24
(2,2611)	1:150:A:ILE:HD11	1:144:A:PHE:H	5	0.24
(2,2611)	1:150:A:ILE:HD13	1:144:A:PHE:H	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	1	0.24
(2,2581)	1:98:A:LEU:HD22	1:99:A:ARG:H	17	0.24
(2,2519)	1:92:A:LEU:H	1:71:A:TYR:HE1	6	0.24
(2,2519)	1:92:A:LEU:H	1:71:A:TYR:HE1	16	0.24
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	12	0.24
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	5	0.24
(2,2444)	1:67:A:VAL:HG11	1:68:A:ARG:H	3	0.24
(2,2444)	1:67:A:VAL:HG12	1:68:A:ARG:H	19	0.24
(2,2378)	1:90:A:PRO:HB3	1:89:A:VAL:HA	3	0.24
(2,2288)	1:162:A:ALA:HB2	1:161:A:HIS:HB2	15	0.24
(2,2271)	1:145:A:LEU:HD11	1:60:A:PHE:HZ	6	0.24
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD11	2	0.24
(2,2232)	1:89:A:VAL:HG12	1:125:A:PHE:HD1	16	0.24
(2,2231)	1:81:A:LEU:HD13	1:89:A:VAL:HG21	1	0.24
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG23	14	0.24
(2,2210)	1:77:A:LEU:HD12	1:144:A:PHE:HD2	1	0.24
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	1	0.24
(2,2197)	1:126:A:ILE:HD11	1:77:A:LEU:HD12	8	0.24
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	19	0.24
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG11	2	0.24
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG13	7	0.24
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG11	8	0.24
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG11	10	0.24
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG12	12	0.24
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG12	20	0.24
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG21	1	0.24
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG23	16	0.24
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG21	3	0.24
(2,2149)	1:33:A:VAL:HG12	1:32:A:ASP:H	6	0.24
(2,2110)	1:22:A:TYR:HB3	1:22:A:TYR:HE2	3	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD22	1	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD23	3	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD21	5	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD23	6	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD23	7	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD21	8	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD21	9	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD21	12	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD21	13	0.24
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD23	14	0.24
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	7	0.24
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	9	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	13	0.24
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	16	0.24
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	17	0.24
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD12	4	0.24
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD12	5	0.24
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD12	8	0.24
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD12	13	0.24
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD12	18	0.24
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD11	19	0.24
(2,2017)	1:134:A:LEU:HD13	1:137:A:ASN:HB2	7	0.24
(2,1955)	1:145:A:LEU:HB2	1:145:A:LEU:HD23	3	0.24
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD13	8	0.24
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD13	14	0.24
(2,1922)	1:33:A:VAL:HG23	1:33:A:VAL:HA	10	0.24
(2,1919)	1:33:A:VAL:HG23	1:49:A:TYR:HB2	6	0.24
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	19	0.24
(2,1898)	1:115:A:ILE:HG23	1:116:A:GLU:HB2	18	0.24
(2,1898)	1:115:A:ILE:HG21	1:116:A:GLU:HB2	20	0.24
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	1	0.24
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	4	0.24
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	20	0.24
(2,1709)	1:20:A:ASP:HA	1:21:A:ALA:HB1	8	0.24
(2,1679)	1:126:A:ILE:HG21	1:31:A:ILE:HG22	8	0.24
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG22	4	0.24
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG21	8	0.24
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	19	0.24
(2,1663)	1:-1:A:VAL:HA	1:-1:A:VAL:HB	5	0.24
(2,1663)	1:-1:A:VAL:HA	1:-1:A:VAL:HB	9	0.24
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	1	0.24
(2,1618)	1:50:A:GLU:HG3	1:67:A:VAL:HG23	3	0.24
(2,1583)	1:141:A:LEU:HD12	1:138:A:GLU:H	20	0.24
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	14	0.24
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	4	0.24
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	1	0.24
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	5	0.24
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	7	0.24
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	10	0.24
(2,1444)	1:133:A:PRO:HB2	1:133:A:PRO:HA	20	0.24
(2,1386)	1:135:A:ALA:HB3	1:130:A:ALA:H	13	0.24
(2,1384)	1:135:A:ALA:HB2	1:137:A:ASN:H	11	0.24
(2,1384)	1:135:A:ALA:HB3	1:137:A:ASN:H	12	0.24
(2,1357)	1:51:A:ILE:HG22	1:34:A:SER:H	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1357)	1:51:A:ILE:HG23	1:34:A:SER:H	19	0.24
(2,1355)	1:51:A:ILE:HG23	1:32:A:ASP:H	14	0.24
(2,1351)	1:51:A:ILE:HG21	1:66:A:THR:HA	4	0.24
(2,1351)	1:51:A:ILE:HG21	1:66:A:THR:HA	6	0.24
(2,1351)	1:51:A:ILE:HG22	1:66:A:THR:HA	10	0.24
(2,1339)	1:59:A:ILE:HG21	1:58:A:PRO:HD3	3	0.24
(2,1339)	1:59:A:ILE:HG22	1:58:A:PRO:HD3	19	0.24
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG21	20	0.24
(2,1289)	1:51:A:ILE:HD11	1:33:A:VAL:HA	2	0.24
(2,1289)	1:51:A:ILE:HD13	1:33:A:VAL:HA	8	0.24
(2,1286)	1:51:A:ILE:HD13	1:144:A:PHE:HE1	1	0.24
(2,1276)	1:115:A:ILE:HD12	1:114:A:PHE:HD2	19	0.24
(2,1257)	1:150:A:ILE:HG21	1:152:A:LYS:HG2	20	0.24
(2,1244)	1:81:A:LEU:HD23	1:135:A:ALA:HB1	2	0.24
(2,1233)	1:81:A:LEU:HD13	1:81:A:LEU:H	2	0.24
(2,1212)	1:29:A:LEU:HD12	1:57:A:LEU:H	17	0.24
(2,1212)	1:29:A:LEU:HD13	1:57:A:LEU:H	19	0.24
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD12	3	0.24
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD12	19	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	1	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD13	3	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD13	4	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	5	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	7	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD13	8	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD13	11	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD13	14	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD11	15	0.24
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD11	16	0.24
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	9	0.24
(2,1100)	1:11:A:LEU:HB3	1:11:A:LEU:H	6	0.24
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	5	0.24
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	8	0.24
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	11	0.24
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	14	0.24
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	17	0.24
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	18	0.24
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	20	0.24
(2,1063)	1:159:A:ILE:HD13	1:142:A:HIS:HB3	6	0.24
(2,1056)	1:159:A:ILE:HD11	1:139:A:ARG:H	3	0.24
(2,1050)	1:148:A:GLU:HB2	1:149:A:ILE:HG13	12	0.24
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,999)	1:101:A:LEU:HD13	1:101:A:LEU:HA	3	0.24
(2,996)	1:101:A:LEU:HD23	1:101:A:LEU:HG	18	0.24
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD21	1	0.24
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD22	11	0.24
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD23	12	0.24
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD21	17	0.24
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD23	20	0.24
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	3	0.24
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	6	0.24
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	1	0.24
(2,947)	1:147:A:ASP:HB2	1:149:A:ILE:H	7	0.24
(2,947)	1:147:A:ASP:HB2	1:149:A:ILE:H	10	0.24
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG22	12	0.24
(2,897)	1:113:A:ASN:HB2	1:117:A:GLU:HG3	16	0.24
(2,863)	1:115:A:ILE:HD11	1:114:A:PHE:HB3	2	0.24
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	6	0.24
(2,725)	1:124:A:GLN:HB3	1:124:A:GLN:HE22	7	0.24
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG21	6	0.24
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG22	8	0.24
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG21	20	0.24
(2,628)	1:129:A:VAL:HG12	1:77:A:LEU:HD11	5	0.24
(2,619)	1:129:A:VAL:HG11	1:129:A:VAL:HG23	1	0.24
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG21	13	0.24
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG23	17	0.24
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG22	18	0.24
(2,608)	1:129:A:VAL:HG12	1:126:A:ILE:HA	2	0.24
(2,608)	1:129:A:VAL:HG12	1:126:A:ILE:HA	7	0.24
(2,596)	1:129:A:VAL:HG13	1:128:A:LYS:H	5	0.24
(2,596)	1:129:A:VAL:HG11	1:128:A:LYS:H	11	0.24
(2,542)	1:143:A:MET:HE1	1:154:A:TYR:HE1	6	0.24
(2,542)	1:143:A:MET:HE2	1:154:A:TYR:HE1	7	0.24
(2,542)	1:143:A:MET:HE3	1:154:A:TYR:HE1	11	0.24
(2,539)	1:143:A:MET:HE2	1:154:A:TYR:H	15	0.24
(2,526)	1:122:A:LEU:HD12	1:75:A:GLU:H	13	0.24
(2,526)	1:122:A:LEU:HD12	1:75:A:GLU:H	18	0.24
(2,519)	1:122:A:LEU:HD12	1:74:A:PHE:HD2	14	0.24
(2,413)	1:87:A:VAL:HG23	1:134:A:LEU:H	20	0.24
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD12	6	0.24
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD13	20	0.24
(2,381)	1:89:A:VAL:HG13	1:81:A:LEU:HD13	17	0.24
(2,372)	1:89:A:VAL:HG12	1:81:A:LEU:HB2	9	0.24
(2,368)	1:82:A:GLU:HA	1:89:A:VAL:HG22	19	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	12	0.24
(2,311)	1:92:A:LEU:HD13	1:92:A:LEU:H	3	0.24
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG21	8	0.24
(2,231)	1:151:A:ASP:HB2	1:150:A:ILE:HG22	7	0.24
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	4	0.24
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	11	0.24
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	18	0.24
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	19	0.24
(2,150)	1:66:A:THR:HG22	1:53:A:VAL:H	6	0.24
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	18	0.24
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	11	0.23
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	3	0.23
(2,4858)	1:159:A:ILE:H	1:138:A:GLU:HA	6	0.23
(2,4844)	1:73:A:ASP:H	1:49:A:TYR:HD1	6	0.23
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD13	12	0.23
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD13	15	0.23
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	4	0.23
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	8	0.23
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	10	0.23
(2,4777)	1:11:A:LEU:HD23	1:12:A:ILE:H	1	0.23
(2,4777)	1:11:A:LEU:HD21	1:12:A:ILE:H	19	0.23
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	9	0.23
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	7	0.23
(2,4728)	1:98:A:LEU:H	1:98:A:LEU:HB3	17	0.23
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	6	0.23
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	4	0.23
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	16	0.23
(2,4688)	1:136:A:GLN:H	1:134:A:LEU:HD23	5	0.23
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD11	4	0.23
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD11	6	0.23
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	11	0.23
(2,4673)	1:120:A:GLN:HE22	1:117:A:GLU:HB3	13	0.23
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	3	0.23
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	19	0.23
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG23	13	0.23
(2,4575)	1:101:A:LEU:HD11	1:98:A:LEU:HA	6	0.23
(2,4575)	1:101:A:LEU:HD11	1:98:A:LEU:HA	15	0.23
(2,4575)	1:101:A:LEU:HD13	1:98:A:LEU:HA	17	0.23
(2,4575)	1:101:A:LEU:HD11	1:98:A:LEU:HA	19	0.23
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	10	0.23
(2,4552)	1:122:A:LEU:HB3	1:118:A:ARG:HA	18	0.23
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	19	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG12	17	0.23
(2,4523)	1:60:A:PHE:HB3	1:62:A:LEU:HB2	15	0.23
(2,4503)	1:82:A:GLU:HG2	1:85:A:SER:H	4	0.23
(2,4499)	1:130:A:ALA:HB3	1:145:A:LEU:HD11	8	0.23
(2,4465)	1:61:A:LYS:HD3	1:62:A:LEU:HG	19	0.23
(2,4462)	1:62:A:LEU:HD11	1:61:A:LYS:HA	9	0.23
(2,4454)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	2	0.23
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	18	0.23
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	20	0.23
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	10	0.23
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	14	0.23
(2,4422)	1:14:A:LYS:HB2	1:14:A:LYS:HG2	19	0.23
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG23	8	0.23
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG21	11	0.23
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG21	12	0.23
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG23	16	0.23
(2,4401)	1:9:A:ARG:HD2	1:9:A:ARG:HG3	6	0.23
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD12	3	0.23
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD13	17	0.23
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD13	13	0.23
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	4	0.23
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG22	13	0.23
(2,4345)	1:145:A:LEU:HD11	1:141:A:LEU:HB3	14	0.23
(2,4335)	1:77:A:LEU:HD22	1:141:A:LEU:HB3	15	0.23
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD22	15	0.23
(2,4325)	1:33:A:VAL:HG22	1:119:A:LYS:HG3	19	0.23
(2,4314)	1:100:A:GLN:HG3	1:101:A:LEU:HD13	12	0.23
(2,4310)	1:10:A:ARG:HG2	1:10:A:ARG:HD2	7	0.23
(2,4310)	1:10:A:ARG:HG2	1:10:A:ARG:HD2	11	0.23
(2,4310)	1:10:A:ARG:HG2	1:10:A:ARG:HD2	18	0.23
(2,4308)	1:99:A:ARG:HA	1:99:A:ARG:HD2	9	0.23
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	14	0.23
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	3	0.23
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	10	0.23
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	13	0.23
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	2	0.23
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG22	16	0.23
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	15	0.23
(2,4188)	1:77:A:LEU:HD22	1:141:A:LEU:HB3	7	0.23
(2,4183)	1:129:A:VAL:HG11	1:141:A:LEU:HD12	7	0.23
(2,4179)	1:141:A:LEU:HD13	1:60:A:PHE:HZ	6	0.23
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4144)	1:64:A:GLU:HG2	1:54:A:LYS:HE3	6	0.23
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG3	3	0.23
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG2	10	0.23
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG2	15	0.23
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	12	0.23
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	3	0.23
(2,4103)	1:51:A:ILE:HG22	1:60:A:PHE:HE2	14	0.23
(2,4082)	1:126:A:ILE:HD13	1:129:A:VAL:H	4	0.23
(2,4079)	1:152:A:LYS:HB3	1:152:A:LYS:HD3	16	0.23
(2,4060)	1:29:A:LEU:HA	1:56:A:ASN:H	16	0.23
(2,4060)	1:160:A:ARG:HA	1:161:A:HIS:HD2	19	0.23
(2,4058)	1:29:A:LEU:HD12	1:31:A:ILE:HA	3	0.23
(2,4052)	1:29:A:LEU:HD22	1:57:A:LEU:HG	17	0.23
(2,4022)	1:11:A:LEU:HB3	1:11:A:LEU:HD23	1	0.23
(2,4018)	1:101:A:LEU:HD13	1:101:A:LEU:HB3	19	0.23
(2,4008)	1:159:A:ILE:HD11	1:139:A:ARG:HB3	7	0.23
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	5	0.23
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	20	0.23
(2,3982)	1:104:A:ARG:HD2	1:104:A:ARG:HB2	6	0.23
(2,3959)	1:109:A:ILE:HD13	1:110:A:PHE:HE1	2	0.23
(2,3959)	1:109:A:ILE:HD12	1:110:A:PHE:HE1	14	0.23
(2,3958)	1:109:A:ILE:HD13	1:107:A:ASP:H	10	0.23
(2,3958)	1:109:A:ILE:HD12	1:107:A:ASP:H	16	0.23
(2,3947)	1:115:A:ILE:HG21	1:36:A:PRO:HG2	18	0.23
(2,3930)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	1	0.23
(2,3930)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	16	0.23
(2,3916)	1:119:A:LYS:HE2	1:120:A:GLN:HB3	3	0.23
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	12	0.23
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	18	0.23
(2,3907)	1:119:A:LYS:HE3	1:116:A:GLU:H	17	0.23
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	3	0.23
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	4	0.23
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	10	0.23
(2,3877)	1:123:A:GLU:HB3	1:127:A:ASN:HD22	5	0.23
(2,3849)	1:55:A:THR:HG22	1:29:A:LEU:HD12	7	0.23
(2,3826)	1:14:A:LYS:HE2	1:14:A:LYS:HG2	8	0.23
(2,3826)	1:128:A:LYS:HE3	1:128:A:LYS:HG3	13	0.23
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	19	0.23
(2,3790)	1:143:A:MET:HA	1:143:A:MET:HG2	6	0.23
(2,3768)	1:53:A:VAL:HG21	1:145:A:LEU:HB3	2	0.23
(2,3768)	1:53:A:VAL:HG23	1:145:A:LEU:HB3	5	0.23
(2,3763)	1:53:A:VAL:HG21	1:64:A:GLU:HB3	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3755)	1:48:A:THR:HG23	1:68:A:ARG:HD3	19	0.23
(2,3740)	1:87:A:VAL:HG21	1:86:A:LYS:H	6	0.23
(2,3740)	1:87:A:VAL:HG23	1:86:A:LYS:H	10	0.23
(2,3736)	1:58:A:PRO:HG2	1:59:A:ILE:H	12	0.23
(2,3728)	1:89:A:VAL:HG12	1:78:A:ARG:HG2	9	0.23
(2,3728)	1:89:A:VAL:HG12	1:78:A:ARG:HG2	17	0.23
(2,3703)	1:92:A:LEU:HD12	1:75:A:GLU:HG3	15	0.23
(2,3691)	1:150:A:ILE:HD13	1:143:A:MET:HB2	3	0.23
(2,3690)	1:150:A:ILE:HD12	1:143:A:MET:HG3	12	0.23
(2,3684)	1:155:A:THR:HG23	1:156:A:PRO:HD2	10	0.23
(2,3662)	1:64:A:GLU:HA	1:54:A:LYS:HB2	15	0.23
(2,3630)	1:84:A:GLU:HA	1:84:A:GLU:HB2	4	0.23
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	1	0.23
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	3	0.23
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	4	0.23
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	5	0.23
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	7	0.23
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	10	0.23
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	15	0.23
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG21	4	0.23
(2,3560)	1:122:A:LEU:HD12	1:121:A:GLY:H	19	0.23
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	11	0.23
(2,3523)	1:162:A:ALA:HB2	1:162:A:ALA:H	5	0.23
(2,3523)	1:162:A:ALA:HB2	1:162:A:ALA:H	20	0.23
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	9	0.23
(2,3466)	1:136:A:GLN:HE22	1:136:A:GLN:H	19	0.23
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	1	0.23
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	3	0.23
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	8	0.23
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	10	0.23
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	13	0.23
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	15	0.23
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	19	0.23
(2,3378)	1:112:A:ASP:HB3	1:113:A:ASN:H	13	0.23
(2,3301)	1:87:A:VAL:HG21	1:81:A:LEU:H	20	0.23
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD1	7	0.23
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	7	0.23
(2,3201)	1:47:A:THR:H	1:46:A:PHE:HE2	6	0.23
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG22	8	0.23
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG21	9	0.23
(2,3042)	1:14:A:LYS:H	1:14:A:LYS:HD3	3	0.23
(2,2977)	1:3:A:GLU:HB2	1:3:A:GLU:H	11	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2977)	1:3:A:GLU:HB2	1:3:A:GLU:H	13	0.23
(2,2938)	1:4:A:THR:HG21	1:5:A:VAL:H	4	0.23
(2,2938)	1:4:A:THR:HG23	1:5:A:VAL:H	19	0.23
(2,2915)	1:37:A:GLN:H	1:49:A:TYR:HD1	7	0.23
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE2	6	0.23
(2,2860)	1:105:A:GLY:H	1:103:A:PHE:HD2	16	0.23
(2,2860)	1:105:A:GLY:H	1:103:A:PHE:HD2	19	0.23
(2,2833)	1:113:A:ASN:HD22	1:113:A:ASN:HA	10	0.23
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	7	0.23
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	17	0.23
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	18	0.23
(2,2832)	1:113:A:ASN:HB3	1:113:A:ASN:HD22	19	0.23
(2,2805)	1:126:A:ILE:HD13	1:130:A:ALA:H	5	0.23
(2,2805)	1:126:A:ILE:HD12	1:130:A:ALA:H	9	0.23
(2,2805)	1:126:A:ILE:HD11	1:130:A:ALA:H	12	0.23
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	15	0.23
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	15	0.23
(2,2700)	1:37:A:GLN:HE22	1:39:A:VAL:H	15	0.23
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	11	0.23
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	18	0.23
(2,2641)	1:0:A:GLY:H	1:-1:A:VAL:HB	7	0.23
(2,2611)	1:150:A:ILE:HD12	1:144:A:PHE:H	8	0.23
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	20	0.23
(2,2571)	1:96:A:ALA:H	1:95:A:LYS:HB2	11	0.23
(2,2571)	1:96:A:ALA:H	1:95:A:LYS:HB2	18	0.23
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	8	0.23
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	20	0.23
(2,2524)	1:83:A:ARG:HB2	1:83:A:ARG:H	4	0.23
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	2	0.23
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	4	0.23
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	9	0.23
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	6	0.23
(2,2312)	1:77:A:LEU:HD23	1:144:A:PHE:HZ	17	0.23
(2,2307)	1:41:A:VAL:HG22	1:44:A:GLY:H	10	0.23
(2,2298)	1:18:A:LEU:HD21	1:17:A:ASN:H	6	0.23
(2,2271)	1:145:A:LEU:HD13	1:60:A:PHE:HZ	9	0.23
(2,2271)	1:145:A:LEU:HD11	1:60:A:PHE:HZ	12	0.23
(2,2232)	1:89:A:VAL:HG11	1:125:A:PHE:HD1	1	0.23
(2,2232)	1:89:A:VAL:HG13	1:125:A:PHE:HD1	20	0.23
(2,2229)	1:82:A:GLU:HB3	1:89:A:VAL:HG21	12	0.23
(2,2210)	1:77:A:LEU:HD11	1:144:A:PHE:HD2	4	0.23
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	8	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG13	4	0.23
(2,2162)	1:41:A:VAL:HB	1:41:A:VAL:HG11	13	0.23
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG23	13	0.23
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG21	18	0.23
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG22	18	0.23
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD21	2	0.23
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD23	4	0.23
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD21	11	0.23
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD23	15	0.23
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD23	17	0.23
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD21	18	0.23
(2,2095)	1:134:A:LEU:HD22	1:88:A:VAL:H	1	0.23
(2,2095)	1:134:A:LEU:HD23	1:88:A:VAL:H	12	0.23
(2,2095)	1:134:A:LEU:HD21	1:88:A:VAL:H	19	0.23
(2,2094)	1:98:A:LEU:HD21	1:97:A:PHE:HZ	17	0.23
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	11	0.23
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	14	0.23
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	15	0.23
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD12	3	0.23
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD12	12	0.23
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD13	15	0.23
(2,1955)	1:145:A:LEU:HB2	1:145:A:LEU:HD23	11	0.23
(2,1929)	1:141:A:LEU:HD22	1:138:A:GLU:H	7	0.23
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	2	0.23
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	5	0.23
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	7	0.23
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	8	0.23
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	9	0.23
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	13	0.23
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	18	0.23
(2,1898)	1:115:A:ILE:HG22	1:116:A:GLU:HB2	3	0.23
(2,1898)	1:115:A:ILE:HG22	1:116:A:GLU:HB2	10	0.23
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	6	0.23
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	9	0.23
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	12	0.23
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	16	0.23
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	13	0.23
(2,1756)	1:92:A:LEU:HD11	1:75:A:GLU:HB2	13	0.23
(2,1700)	1:115:A:ILE:HG22	1:36:A:PRO:HD2	20	0.23
(2,1671)	1:31:A:ILE:HG22	1:127:A:ASN:HD21	12	0.23
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	13	0.23
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG21	20	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD13	14	0.23
(2,1583)	1:141:A:LEU:HD12	1:138:A:GLU:H	10	0.23
(2,1566)	1:64:A:GLU:HB3	1:64:A:GLU:H	5	0.23
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	2	0.23
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	1	0.23
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	15	0.23
(2,1500)	1:57:A:LEU:HD21	1:58:A:PRO:HD2	8	0.23
(2,1499)	1:57:A:LEU:HD22	1:58:A:PRO:HD3	2	0.23
(2,1499)	1:57:A:LEU:HD21	1:58:A:PRO:HD3	18	0.23
(2,1489)	1:29:A:LEU:HD12	1:55:A:THR:HA	18	0.23
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	3	0.23
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	6	0.23
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	8	0.23
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	9	0.23
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	11	0.23
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	13	0.23
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	14	0.23
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	15	0.23
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	16	0.23
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	18	0.23
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	1	0.23
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	5	0.23
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	7	0.23
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	1	0.23
(2,1391)	1:41:A:VAL:HG23	1:41:A:VAL:HB	3	0.23
(2,1391)	1:41:A:VAL:HG21	1:41:A:VAL:HB	5	0.23
(2,1391)	1:41:A:VAL:HG21	1:41:A:VAL:HB	7	0.23
(2,1391)	1:41:A:VAL:HG21	1:41:A:VAL:HB	10	0.23
(2,1391)	1:41:A:VAL:HG21	1:41:A:VAL:HB	20	0.23
(2,1384)	1:135:A:ALA:HB2	1:137:A:ASN:H	2	0.23
(2,1357)	1:51:A:ILE:HG21	1:34:A:SER:H	5	0.23
(2,1351)	1:51:A:ILE:HG22	1:66:A:THR:HA	15	0.23
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG21	7	0.23
(2,1294)	1:51:A:ILE:HD12	1:67:A:VAL:HG21	4	0.23
(2,1257)	1:150:A:ILE:HG23	1:152:A:LYS:HG2	17	0.23
(2,1212)	1:29:A:LEU:HD11	1:57:A:LEU:H	5	0.23
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG21	18	0.23
(2,1147)	1:122:A:LEU:HD12	1:93:A:PRO:HB3	10	0.23
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	5	0.23
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	11	0.23
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD13	20	0.23
(2,1103)	1:57:A:LEU:HD23	1:27:A:ASN:HB3	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1103)	1:57:A:LEU:HD23	1:27:A:ASN:HB3	16	0.23
(2,1100)	1:11:A:LEU:HB3	1:11:A:LEU:H	12	0.23
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	2	0.23
(2,1096)	1:11:A:LEU:HA	1:11:A:LEU:HB3	13	0.23
(2,1089)	1:139:A:ARG:HD3	1:143:A:MET:H	6	0.23
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	19	0.23
(2,1050)	1:148:A:GLU:HB2	1:149:A:ILE:HG13	7	0.23
(2,1050)	1:148:A:GLU:HB2	1:149:A:ILE:HG13	19	0.23
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	4	0.23
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	8	0.23
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	11	0.23
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD23	6	0.23
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD22	15	0.23
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD21	17	0.23
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	16	0.23
(2,938)	1:109:A:ILE:HG13	1:109:A:ILE:HG22	8	0.23
(2,763)	1:36:A:PRO:HG3	1:115:A:ILE:HD13	19	0.23
(2,755)	1:122:A:LEU:HD21	1:122:A:LEU:HA	7	0.23
(2,755)	1:122:A:LEU:HD22	1:122:A:LEU:HA	8	0.23
(2,755)	1:122:A:LEU:HD23	1:122:A:LEU:HA	13	0.23
(2,687)	1:82:A:GLU:HG2	1:83:A:ARG:H	1	0.23
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG23	13	0.23
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG23	15	0.23
(2,673)	1:55:A:THR:HG22	1:62:A:LEU:H	6	0.23
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	15	0.23
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG22	2	0.23
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG23	3	0.23
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG22	7	0.23
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG22	14	0.23
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG21	19	0.23
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG22	20	0.23
(2,608)	1:129:A:VAL:HG11	1:126:A:ILE:HA	12	0.23
(2,596)	1:129:A:VAL:HG13	1:128:A:LYS:H	4	0.23
(2,596)	1:129:A:VAL:HG12	1:128:A:LYS:H	13	0.23
(2,596)	1:129:A:VAL:HG12	1:128:A:LYS:H	14	0.23
(2,596)	1:129:A:VAL:HG12	1:128:A:LYS:H	19	0.23
(2,568)	1:143:A:MET:HG2	1:150:A:ILE:HA	9	0.23
(2,542)	1:143:A:MET:HE3	1:154:A:TYR:HE1	10	0.23
(2,521)	1:122:A:LEU:HD13	1:49:A:TYR:HD1	1	0.23
(2,465)	1:47:A:THR:HG23	1:114:A:PHE:HE2	11	0.23
(2,461)	1:48:A:THR:HG23	1:68:A:ARG:HG2	18	0.23
(2,413)	1:87:A:VAL:HG22	1:134:A:LEU:H	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,413)	1:87:A:VAL:HG23	1:134:A:LEU:H	15	0.23
(2,311)	1:92:A:LEU:HD11	1:92:A:LEU:H	20	0.23
(2,306)	1:92:A:LEU:HD22	1:75:A:GLU:H	1	0.23
(2,306)	1:92:A:LEU:HD23	1:75:A:GLU:H	18	0.23
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE3	15	0.23
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	1	0.23
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	14	0.23
(2,150)	1:66:A:THR:HG21	1:53:A:VAL:H	11	0.23
(2,4983)	1:80:A:GLU:H	1:125:A:PHE:HZ	11	0.22
(2,4961)	1:112:A:ASP:H	1:115:A:ILE:HB	13	0.22
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	7	0.22
(2,4862)	1:158:A:LYS:H	1:139:A:ARG:HB2	17	0.22
(2,4851)	1:89:A:VAL:H	1:82:A:GLU:H	6	0.22
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD12	4	0.22
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	7	0.22
(2,4807)	1:57:A:LEU:H	1:59:A:ILE:H	4	0.22
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	9	0.22
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	14	0.22
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	13	0.22
(2,4727)	1:33:A:VAL:HG22	1:50:A:GLU:H	20	0.22
(2,4725)	1:50:A:GLU:H	1:36:A:PRO:HB3	18	0.22
(2,4722)	1:161:A:HIS:HA	1:160:A:ARG:H	12	0.22
(2,4721)	1:160:A:ARG:H	1:158:A:LYS:HE2	4	0.22
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	8	0.22
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	13	0.22
(2,4704)	1:77:A:LEU:HD21	1:78:A:ARG:H	16	0.22
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	11	0.22
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	19	0.22
(2,4701)	1:44:A:GLY:H	1:110:A:PHE:HE1	13	0.22
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	19	0.22
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	9	0.22
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	12	0.22
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	13	0.22
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD13	17	0.22
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	20	0.22
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	2	0.22
(2,4673)	1:120:A:GLN:HE22	1:117:A:GLU:HB3	5	0.22
(2,4668)	1:157:A:SER:H	1:139:A:ARG:HG3	4	0.22
(2,4668)	1:157:A:SER:H	1:139:A:ARG:HG3	6	0.22
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	5	0.22
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	12	0.22
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD21	15	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4596)	1:62:A:LEU:HB2	1:63:A:LYS:H	11	0.22
(2,4594)	1:19:A:ASN:H	1:18:A:LEU:HB3	16	0.22
(2,4592)	1:20:A:ASP:HB2	1:21:A:ALA:H	11	0.22
(2,4581)	1:106:A:ASP:HB3	1:105:A:GLY:HA2	8	0.22
(2,4581)	1:106:A:ASP:HB3	1:105:A:GLY:HA2	9	0.22
(2,4575)	1:101:A:LEU:HD12	1:98:A:LEU:HA	1	0.22
(2,4575)	1:101:A:LEU:HD13	1:98:A:LEU:HA	4	0.22
(2,4575)	1:101:A:LEU:HD12	1:98:A:LEU:HA	9	0.22
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	18	0.22
(2,4544)	1:85:A:SER:HB3	1:86:A:LYS:HG3	5	0.22
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	19	0.22
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	5	0.22
(2,4533)	1:88:A:VAL:HG21	1:90:A:PRO:HB2	8	0.22
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	1	0.22
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	13	0.22
(2,4526)	1:113:A:ASN:HB3	1:101:A:LEU:HD21	18	0.22
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD12	10	0.22
(2,4475)	1:141:A:LEU:HD12	1:77:A:LEU:HD11	14	0.22
(2,4462)	1:62:A:LEU:HD13	1:61:A:LYS:HA	17	0.22
(2,4460)	1:61:A:LYS:HB2	1:61:A:LYS:HE2	10	0.22
(2,4424)	1:61:A:LYS:HD3	1:62:A:LEU:H	4	0.22
(2,4414)	1:11:A:LEU:HA	1:10:A:ARG:HB2	5	0.22
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG23	18	0.22
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD12	5	0.22
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	9	0.22
(2,4351)	1:81:A:LEU:HD11	1:89:A:VAL:HG22	16	0.22
(2,4319)	1:115:A:ILE:HG22	1:118:A:ARG:HB3	11	0.22
(2,4310)	1:10:A:ARG:HG2	1:10:A:ARG:HD2	17	0.22
(2,4308)	1:99:A:ARG:HA	1:99:A:ARG:HD2	17	0.22
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	1	0.22
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	13	0.22
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	18	0.22
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG22	7	0.22
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG22	17	0.22
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	5	0.22
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	12	0.22
(2,4264)	1:52:A:ARG:HD3	1:53:A:VAL:H	11	0.22
(2,4259)	1:63:A:LYS:HD2	1:63:A:LYS:HE2	5	0.22
(2,4247)	1:12:A:ILE:HB	1:11:A:LEU:HA	4	0.22
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	10	0.22
(2,4156)	1:57:A:LEU:HG	1:55:A:THR:HG21	9	0.22
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG2	14	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4139)	1:137:A:ASN:HB3	1:59:A:ILE:HD12	5	0.22
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	2	0.22
(2,4133)	1:133:A:PRO:HG2	1:132:A:HIS:HE1	3	0.22
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	7	0.22
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	13	0.22
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	20	0.22
(2,4110)	1:96:A:ALA:HB1	1:97:A:PHE:HB3	3	0.22
(2,4110)	1:96:A:ALA:HB2	1:97:A:PHE:HB3	14	0.22
(2,4110)	1:96:A:ALA:HB2	1:97:A:PHE:HB3	16	0.22
(2,4103)	1:51:A:ILE:HG22	1:60:A:PHE:HE2	20	0.22
(2,4102)	1:51:A:ILE:HG23	1:53:A:VAL:HB	16	0.22
(2,4082)	1:126:A:ILE:HD12	1:129:A:VAL:H	9	0.22
(2,4082)	1:126:A:ILE:HD11	1:129:A:VAL:H	20	0.22
(2,4026)	1:152:A:LYS:HE2	1:76:A:TRP:H	15	0.22
(2,4018)	1:11:A:LEU:HB2	1:11:A:LEU:HD21	7	0.22
(2,4007)	1:139:A:ARG:HD3	1:139:A:ARG:HB3	13	0.22
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	19	0.22
(2,3989)	1:26:A:SER:HB2	1:24:A:PRO:HB3	16	0.22
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	5	0.22
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	13	0.22
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	16	0.22
(2,3930)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	18	0.22
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	1	0.22
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	16	0.22
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	16	0.22
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	2	0.22
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	19	0.22
(2,3877)	1:123:A:GLU:HB3	1:127:A:ASN:HD22	13	0.22
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	2	0.22
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	13	0.22
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	15	0.22
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	16	0.22
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	1	0.22
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	18	0.22
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	20	0.22
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	2	0.22
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	3	0.22
(2,3782)	1:151:A:ASP:HB2	1:143:A:MET:HE1	9	0.22
(2,3764)	1:53:A:VAL:HG22	1:30:A:GLU:HG3	9	0.22
(2,3759)	1:53:A:VAL:HG21	1:30:A:GLU:H	19	0.22
(2,3757)	1:47:A:THR:HG23	1:115:A:ILE:HA	10	0.22
(2,3757)	1:47:A:THR:HG21	1:115:A:ILE:HA	12	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3755)	1:48:A:THR:HG23	1:68:A:ARG:HD3	13	0.22
(2,3736)	1:58:A:PRO:HG2	1:59:A:ILE:H	6	0.22
(2,3728)	1:89:A:VAL:HG12	1:78:A:ARG:HG2	18	0.22
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	15	0.22
(2,3708)	1:92:A:LEU:HD11	1:78:A:ARG:H	13	0.22
(2,3705)	1:92:A:LEU:HG	1:93:A:PRO:HD3	11	0.22
(2,3703)	1:92:A:LEU:HD12	1:75:A:GLU:HG3	2	0.22
(2,3702)	1:92:A:LEU:HD21	1:75:A:GLU:HG2	6	0.22
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	19	0.22
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	11	0.22
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	14	0.22
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	2	0.22
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	3	0.22
(2,3582)	1:12:A:ILE:HG13	1:11:A:LEU:H	7	0.22
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	2	0.22
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	2	0.22
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	4	0.22
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	6	0.22
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	7	0.22
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	12	0.22
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	17	0.22
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	18	0.22
(2,3465)	1:136:A:GLN:HE22	1:136:A:GLN:HE21	20	0.22
(2,3342)	1:107:A:ASP:HB3	1:107:A:ASP:H	14	0.22
(2,3338)	1:105:A:GLY:HA3	1:106:A:ASP:H	1	0.22
(2,3338)	1:105:A:GLY:HA3	1:106:A:ASP:H	5	0.22
(2,3338)	1:105:A:GLY:HA3	1:106:A:ASP:H	14	0.22
(2,3338)	1:105:A:GLY:HA3	1:106:A:ASP:H	16	0.22
(2,3338)	1:105:A:GLY:HA3	1:106:A:ASP:H	17	0.22
(2,3338)	1:105:A:GLY:HA3	1:106:A:ASP:H	18	0.22
(2,3301)	1:87:A:VAL:HG23	1:81:A:LEU:H	11	0.22
(2,3289)	1:150:A:ILE:HD12	1:73:A:ASP:H	5	0.22
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD1	4	0.22
(2,3253)	1:55:A:THR:HG23	1:64:A:GLU:H	15	0.22
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG22	11	0.22
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG21	18	0.22
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD23	1	0.22
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD23	12	0.22
(2,3090)	1:23:A:GLY:H	1:21:A:ALA:HB2	4	0.22
(2,3027)	1:10:A:ARG:HB2	1:11:A:LEU:H	6	0.22
(2,3012)	1:8:A:THR:H	1:7:A:ASP:HB2	14	0.22
(2,2996)	1:6:A:ALA:HB3	1:6:A:ALA:H	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2983)	1:4:A:THR:H	1:3:A:GLU:HB2	17	0.22
(2,2915)	1:37:A:GLN:H	1:49:A:TYR:HD1	4	0.22
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	5	0.22
(2,2910)	1:97:A:PHE:HB3	1:98:A:LEU:H	9	0.22
(2,2831)	1:113:A:ASN:HB2	1:113:A:ASN:HD22	3	0.22
(2,2805)	1:126:A:ILE:HD11	1:130:A:ALA:H	6	0.22
(2,2805)	1:126:A:ILE:HD12	1:130:A:ALA:H	7	0.22
(2,2805)	1:126:A:ILE:HD12	1:130:A:ALA:H	8	0.22
(2,2805)	1:126:A:ILE:HD13	1:130:A:ALA:H	18	0.22
(2,2776)	1:42:A:GLY:H	1:45:A:ARG:HD3	11	0.22
(2,2776)	1:42:A:GLY:H	1:45:A:ARG:HD3	14	0.22
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD12	1	0.22
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	2	0.22
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	5	0.22
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	14	0.22
(2,2570)	1:96:A:ALA:H	1:95:A:LYS:HG3	17	0.22
(2,2524)	1:83:A:ARG:HB2	1:83:A:ARG:H	6	0.22
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	17	0.22
(2,2508)	1:79:A:SER:H	1:125:A:PHE:HE1	18	0.22
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	4	0.22
(2,2444)	1:67:A:VAL:HG11	1:68:A:ARG:H	8	0.22
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	2	0.22
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	5	0.22
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	16	0.22
(2,2373)	1:33:A:VAL:HG22	1:49:A:TYR:HE1	8	0.22
(2,2319)	1:78:A:ARG:HD3	1:125:A:PHE:HZ	9	0.22
(2,2298)	1:18:A:LEU:HD23	1:17:A:ASN:H	1	0.22
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD11	12	0.22
(2,2232)	1:89:A:VAL:HG12	1:125:A:PHE:HD1	15	0.22
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	11	0.22
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	4	0.22
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	6	0.22
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	12	0.22
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	13	0.22
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG21	9	0.22
(2,2149)	1:33:A:VAL:HG13	1:32:A:ASP:H	5	0.22
(2,2096)	1:11:A:LEU:HG	1:11:A:LEU:HD22	20	0.22
(2,2095)	1:134:A:LEU:HD21	1:88:A:VAL:H	13	0.22
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	2	0.22
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	4	0.22
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	5	0.22
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	12	0.22
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD11	9	0.22
(2,1965)	1:149:A:ILE:HD13	1:150:A:ILE:HA	2	0.22
(2,1955)	1:145:A:LEU:HB2	1:145:A:LEU:HD21	5	0.22
(2,1929)	1:141:A:LEU:HD23	1:138:A:GLU:H	4	0.22
(2,1919)	1:33:A:VAL:HG21	1:49:A:TYR:HB2	4	0.22
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	1	0.22
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	2	0.22
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	3	0.22
(2,1793)	1:83:A:ARG:HD3	1:83:A:ARG:HA	6	0.22
(2,1756)	1:92:A:LEU:HD11	1:75:A:GLU:HB2	8	0.22
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	4	0.22
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	15	0.22
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	5	0.22
(2,1671)	1:31:A:ILE:HG22	1:127:A:ASN:HD21	14	0.22
(2,1663)	1:-1:A:VAL:HA	1:-1:A:VAL:HB	7	0.22
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	2	0.22
(2,1590)	1:129:A:VAL:HG23	1:141:A:LEU:HD13	15	0.22
(2,1583)	1:141:A:LEU:HD13	1:138:A:GLU:H	11	0.22
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	6	0.22
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	10	0.22
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	17	0.22
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	10	0.22
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	20	0.22
(2,1511)	1:59:A:ILE:HG21	1:57:A:LEU:HG	20	0.22
(2,1500)	1:57:A:LEU:HD21	1:58:A:PRO:HD2	20	0.22
(2,1499)	1:57:A:LEU:HD23	1:58:A:PRO:HD3	1	0.22
(2,1499)	1:57:A:LEU:HD23	1:58:A:PRO:HD3	10	0.22
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	2	0.22
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	4	0.22
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	12	0.22
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	19	0.22
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	19	0.22
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	14	0.22
(2,1406)	1:39:A:VAL:HG21	1:39:A:VAL:HA	14	0.22
(2,1391)	1:41:A:VAL:HG22	1:41:A:VAL:HB	6	0.22
(2,1391)	1:41:A:VAL:HG23	1:41:A:VAL:HB	8	0.22
(2,1391)	1:41:A:VAL:HG21	1:41:A:VAL:HB	11	0.22
(2,1391)	1:41:A:VAL:HG21	1:41:A:VAL:HB	14	0.22
(2,1391)	1:41:A:VAL:HG23	1:41:A:VAL:HB	15	0.22
(2,1370)	1:21:A:ALA:HB3	1:20:A:ASP:H	2	0.22
(2,1351)	1:51:A:ILE:HG21	1:66:A:THR:HA	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1351)	1:51:A:ILE:HG21	1:66:A:THR:HA	11	0.22
(2,1351)	1:51:A:ILE:HG23	1:66:A:THR:HA	17	0.22
(2,1339)	1:59:A:ILE:HG23	1:58:A:PRO:HD3	2	0.22
(2,1326)	1:12:A:ILE:HG21	1:13:A:THR:HA	1	0.22
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG23	10	0.22
(2,1312)	1:149:A:ILE:HG23	1:151:A:ASP:H	8	0.22
(2,1310)	1:149:A:ILE:HG23	1:148:A:GLU:H	10	0.22
(2,1290)	1:51:A:ILE:HD12	1:49:A:TYR:HB3	5	0.22
(2,1263)	1:152:A:LYS:HB3	1:76:A:TRP:HE1	16	0.22
(2,1233)	1:81:A:LEU:HD13	1:81:A:LEU:H	7	0.22
(2,1212)	1:29:A:LEU:HD13	1:57:A:LEU:H	13	0.22
(2,1212)	1:29:A:LEU:HD13	1:57:A:LEU:H	16	0.22
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD12	16	0.22
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG22	8	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	1	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	2	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	4	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	6	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	7	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	8	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	9	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	10	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	11	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	12	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	13	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	17	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	18	0.22
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	19	0.22
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	6	0.22
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	2	0.22
(2,1115)	1:149:A:ILE:HG12	1:149:A:ILE:HD13	6	0.22
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	7	0.22
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD13	10	0.22
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD13	15	0.22
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	17	0.22
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	18	0.22
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	19	0.22
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	19	0.22
(2,1085)	1:139:A:ARG:HD3	1:161:A:HIS:HD2	3	0.22
(2,1072)	1:159:A:ILE:HD12	1:139:A:ARG:HD2	17	0.22
(2,1063)	1:159:A:ILE:HD11	1:142:A:HIS:HB3	7	0.22
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	16	0.22
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD13	19	0.22
(2,995)	1:101:A:LEU:HD21	1:101:A:LEU:H	18	0.22
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD22	3	0.22
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD22	8	0.22
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD21	14	0.22
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD23	16	0.22
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	14	0.22
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	20	0.22
(2,954)	1:148:A:GLU:HB2	1:149:A:ILE:H	7	0.22
(2,954)	1:148:A:GLU:HB2	1:149:A:ILE:H	15	0.22
(2,941)	1:109:A:ILE:HD13	1:107:A:ASP:HB3	5	0.22
(2,926)	1:109:A:ILE:HD11	1:45:A:ARG:HB3	1	0.22
(2,863)	1:115:A:ILE:HD11	1:114:A:PHE:HB3	15	0.22
(2,863)	1:115:A:ILE:HD11	1:114:A:PHE:HB3	18	0.22
(2,755)	1:122:A:LEU:HD22	1:122:A:LEU:HA	2	0.22
(2,755)	1:122:A:LEU:HD22	1:122:A:LEU:HA	4	0.22
(2,755)	1:122:A:LEU:HD22	1:122:A:LEU:HA	12	0.22
(2,755)	1:122:A:LEU:HD22	1:122:A:LEU:HA	17	0.22
(2,755)	1:122:A:LEU:HD22	1:122:A:LEU:HA	18	0.22
(2,755)	1:122:A:LEU:HD23	1:122:A:LEU:HA	19	0.22
(2,753)	1:122:A:LEU:HD23	1:33:A:VAL:HG22	10	0.22
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG23	1	0.22
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG21	2	0.22
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG22	7	0.22
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG22	11	0.22
(2,673)	1:55:A:THR:HG23	1:62:A:LEU:H	10	0.22
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	1	0.22
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	9	0.22
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	12	0.22
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	19	0.22
(2,623)	1:129:A:VAL:HG21	1:130:A:ALA:HB2	9	0.22
(2,623)	1:129:A:VAL:HG21	1:130:A:ALA:HB1	13	0.22
(2,619)	1:129:A:VAL:HG13	1:129:A:VAL:HG21	12	0.22
(2,619)	1:129:A:VAL:HG11	1:129:A:VAL:HG23	19	0.22
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG22	5	0.22
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG22	6	0.22
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG22	12	0.22
(2,608)	1:129:A:VAL:HG12	1:126:A:ILE:HA	9	0.22
(2,608)	1:129:A:VAL:HG11	1:126:A:ILE:HA	18	0.22
(2,596)	1:129:A:VAL:HG11	1:128:A:LYS:H	15	0.22
(2,540)	1:143:A:MET:HE1	1:76:A:TRP:HZ2	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,531)	1:143:A:MET:HE2	1:154:A:TYR:HB2	13	0.22
(2,530)	1:143:A:MET:HE2	1:150:A:ILE:HA	4	0.22
(2,525)	1:122:A:LEU:HD11	1:122:A:LEU:H	11	0.22
(2,488)	1:126:A:ILE:HG22	1:126:A:ILE:HA	7	0.22
(2,488)	1:126:A:ILE:HG22	1:126:A:ILE:HA	18	0.22
(2,461)	1:48:A:THR:HG23	1:68:A:ARG:HG2	3	0.22
(2,428)	1:13:A:THR:HG21	1:12:A:ILE:H	3	0.22
(2,413)	1:87:A:VAL:HG22	1:134:A:LEU:H	17	0.22
(2,413)	1:87:A:VAL:HG21	1:134:A:LEU:H	18	0.22
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD12	2	0.22
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD11	9	0.22
(2,407)	1:87:A:VAL:HB	1:81:A:LEU:HD12	17	0.22
(2,381)	1:89:A:VAL:HG12	1:81:A:LEU:HD13	7	0.22
(2,372)	1:89:A:VAL:HG12	1:81:A:LEU:HB2	18	0.22
(2,366)	1:89:A:VAL:HG12	1:82:A:GLU:HG2	1	0.22
(2,362)	1:89:A:VAL:HG21	1:87:A:VAL:H	20	0.22
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD2	3	0.22
(2,248)	1:150:A:ILE:HG23	1:144:A:PHE:HD1	19	0.22
(2,241)	1:150:A:ILE:HG22	1:151:A:ASP:H	14	0.22
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG23	10	0.22
(2,224)	1:155:A:THR:HG21	1:139:A:ARG:HG2	10	0.22
(2,151)	1:66:A:THR:HG23	1:50:A:GLU:H	6	0.22
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG22	19	0.22
(2,4961)	1:112:A:ASP:H	1:115:A:ILE:HB	15	0.21
(2,4945)	1:77:A:LEU:HD23	1:142:A:HIS:H	19	0.21
(2,4909)	1:127:A:ASN:H	1:123:A:GLU:HG3	16	0.21
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	8	0.21
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE3	17	0.21
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD12	2	0.21
(2,4832)	1:54:A:LYS:HE2	1:64:A:GLU:H	18	0.21
(2,4821)	1:51:A:ILE:H	1:68:A:ARG:HG2	17	0.21
(2,4755)	1:0:A:GLY:HA2	1:1:A:THR:H	14	0.21
(2,4721)	1:160:A:ARG:H	1:158:A:LYS:HE2	3	0.21
(2,4719)	1:151:A:ASP:HB2	1:152:A:LYS:H	9	0.21
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	14	0.21
(2,4704)	1:77:A:LEU:HD23	1:78:A:ARG:H	7	0.21
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	2	0.21
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	14	0.21
(2,4701)	1:44:A:GLY:H	1:110:A:PHE:HE1	15	0.21
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	15	0.21
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	11	0.21
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	8	0.21
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	9	0.21
(2,4665)	1:159:A:ILE:H	1:158:A:LYS:HE3	5	0.21
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	13	0.21
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	7	0.21
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD22	5	0.21
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD23	13	0.21
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG23	7	0.21
(2,4577)	1:51:A:ILE:HG12	1:67:A:VAL:HG22	18	0.21
(2,4575)	1:101:A:LEU:HD13	1:98:A:LEU:HA	8	0.21
(2,4575)	1:101:A:LEU:HD13	1:98:A:LEU:HA	11	0.21
(2,4575)	1:101:A:LEU:HD11	1:98:A:LEU:HA	14	0.21
(2,4575)	1:101:A:LEU:HD11	1:98:A:LEU:HA	16	0.21
(2,4575)	1:101:A:LEU:HD11	1:98:A:LEU:HA	20	0.21
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	20	0.21
(2,4552)	1:122:A:LEU:HB3	1:118:A:ARG:HA	8	0.21
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	17	0.21
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	6	0.21
(2,4541)	1:146:A:GLN:HG3	1:143:A:MET:HA	13	0.21
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	3	0.21
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	6	0.21
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	7	0.21
(2,4521)	1:77:A:LEU:HD22	1:141:A:LEU:H	7	0.21
(2,4521)	1:77:A:LEU:HD23	1:141:A:LEU:H	16	0.21
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD11	12	0.21
(2,4473)	1:77:A:LEU:HD11	1:144:A:PHE:HB2	9	0.21
(2,4462)	1:62:A:LEU:HD11	1:61:A:LYS:HA	8	0.21
(2,4454)	1:52:A:ARG:HB2	1:51:A:ILE:HG23	18	0.21
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG22	3	0.21
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	1	0.21
(2,4357)	1:157:A:SER:HB3	1:139:A:ARG:HD3	20	0.21
(2,4310)	1:10:A:ARG:HG2	1:10:A:ARG:HD2	12	0.21
(2,4308)	1:99:A:ARG:HA	1:99:A:ARG:HD2	4	0.21
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG23	20	0.21
(2,4290)	1:54:A:LYS:HE2	1:64:A:GLU:HB2	18	0.21
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	17	0.21
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	7	0.21
(2,4273)	1:16:A:GLN:HG3	1:15:A:PRO:HA	11	0.21
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	11	0.21
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	17	0.21
(2,4234)	1:35:A:ASN:HB3	1:36:A:PRO:HD2	14	0.21
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	8	0.21
(2,4192)	1:50:A:GLU:HG2	1:52:A:ARG:HD2	20	0.21
(2,4182)	1:141:A:LEU:HD13	1:143:A:MET:HG2	12	0.21
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	2	0.21
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	7	0.21
(2,4138)	1:137:A:ASN:HB3	1:134:A:LEU:HB3	9	0.21
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	5	0.21
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	6	0.21
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	14	0.21
(2,4102)	1:51:A:ILE:HG21	1:53:A:VAL:HB	14	0.21
(2,4102)	1:51:A:ILE:HG23	1:53:A:VAL:HB	18	0.21
(2,4100)	1:59:A:ILE:HG23	1:141:A:LEU:HB2	20	0.21
(2,4098)	1:59:A:ILE:HG23	1:60:A:PHE:HB3	1	0.21
(2,4082)	1:126:A:ILE:HD12	1:129:A:VAL:H	16	0.21
(2,4058)	1:29:A:LEU:HD11	1:31:A:ILE:HA	4	0.21
(2,4052)	1:29:A:LEU:HD23	1:57:A:LEU:HG	2	0.21
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD11	15	0.21
(2,4042)	1:45:A:ARG:HD2	1:41:A:VAL:HA	2	0.21
(2,4018)	1:101:A:LEU:HD13	1:101:A:LEU:HB3	3	0.21
(2,4018)	1:101:A:LEU:HD13	1:101:A:LEU:HB3	14	0.21
(2,4006)	1:139:A:ARG:HD2	1:139:A:ARG:HB2	1	0.21
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	12	0.21
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	13	0.21
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	16	0.21
(2,3974)	1:3:A:GLU:HG3	1:3:A:GLU:HB3	3	0.21
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	15	0.21
(2,3907)	1:119:A:LYS:HE3	1:116:A:GLU:H	20	0.21
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	9	0.21
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	15	0.21
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	17	0.21
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	18	0.21
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	20	0.21
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	7	0.21
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	9	0.21
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	10	0.21
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	11	0.21
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	18	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	1	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	3	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	4	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	5	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	7	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	10	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	11	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	12	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	14	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	17	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	18	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	19	0.21
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	20	0.21
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	8	0.21
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	11	0.21
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	15	0.21
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	4	0.21
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	13	0.21
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	16	0.21
(2,3783)	1:143:A:MET:HE2	1:143:A:MET:HB3	6	0.21
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG22	3	0.21
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG23	14	0.21
(2,3768)	1:53:A:VAL:HG21	1:145:A:LEU:HB3	4	0.21
(2,3747)	1:0:A:GLY:HA3	1:-1:A:VAL:HG22	12	0.21
(2,3744)	1:87:A:VAL:HG22	1:84:A:GLU:HB2	20	0.21
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	20	0.21
(2,3736)	1:58:A:PRO:HG2	1:59:A:ILE:H	7	0.21
(2,3736)	1:58:A:PRO:HG2	1:59:A:ILE:H	16	0.21
(2,3728)	1:89:A:VAL:HG13	1:78:A:ARG:HG2	19	0.21
(2,3718)	1:25:A:PRO:HD2	1:24:A:PRO:HB2	6	0.21
(2,3715)	1:90:A:PRO:HD3	1:128:A:LYS:HD3	6	0.21
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	5	0.21
(2,3702)	1:92:A:LEU:HD22	1:75:A:GLU:HG2	10	0.21
(2,3691)	1:150:A:ILE:HD13	1:143:A:MET:HB2	7	0.21
(2,3690)	1:150:A:ILE:HD13	1:143:A:MET:HG3	10	0.21
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG2	5	0.21
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	8	0.21
(2,3630)	1:3:A:GLU:HA	1:3:A:GLU:HG3	11	0.21
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	17	0.21
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	7	0.21
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB1	11	0.21
(2,3378)	1:112:A:ASP:HB3	1:113:A:ASN:H	8	0.21
(2,3338)	1:105:A:GLY:HA3	1:106:A:ASP:H	2	0.21
(2,3338)	1:105:A:GLY:HA3	1:106:A:ASP:H	11	0.21
(2,3301)	1:87:A:VAL:HG23	1:81:A:LEU:H	7	0.21
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD2	12	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	11	0.21
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	14	0.21
(2,3201)	1:47:A:THR:H	1:46:A:PHE:HE2	1	0.21
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG22	7	0.21
(2,3170)	1:38:A:THR:HG22	1:38:A:THR:H	3	0.21
(2,3170)	1:38:A:THR:HG22	1:38:A:THR:H	5	0.21
(2,3170)	1:38:A:THR:HG22	1:38:A:THR:H	10	0.21
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD23	16	0.21
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD21	18	0.21
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	11	0.21
(2,3056)	1:16:A:GLN:H	1:16:A:GLN:HE22	1	0.21
(2,3056)	1:16:A:GLN:H	1:16:A:GLN:HE22	17	0.21
(2,3027)	1:10:A:ARG:HB2	1:11:A:LEU:H	12	0.21
(2,2996)	1:6:A:ALA:HB3	1:6:A:ALA:H	8	0.21
(2,2996)	1:6:A:ALA:HB3	1:6:A:ALA:H	9	0.21
(2,2983)	1:4:A:THR:H	1:3:A:GLU:HB2	14	0.21
(2,2983)	1:4:A:THR:H	1:3:A:GLU:HB2	20	0.21
(2,2982)	1:4:A:THR:HG22	1:4:A:THR:H	16	0.21
(2,2979)	1:2:A:ALA:HB1	1:3:A:GLU:H	5	0.21
(2,2979)	1:2:A:ALA:HB3	1:3:A:GLU:H	14	0.21
(2,2977)	1:3:A:GLU:HB2	1:3:A:GLU:H	10	0.21
(2,2938)	1:4:A:THR:HG22	1:5:A:VAL:H	1	0.21
(2,2938)	1:4:A:THR:HG21	1:5:A:VAL:H	2	0.21
(2,2915)	1:37:A:GLN:H	1:49:A:TYR:HD2	1	0.21
(2,2915)	1:37:A:GLN:H	1:49:A:TYR:HD1	10	0.21
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE2	1	0.21
(2,2890)	1:50:A:GLU:H	1:49:A:TYR:HE1	20	0.21
(2,2860)	1:105:A:GLY:H	1:103:A:PHE:HD1	14	0.21
(2,2833)	1:113:A:ASN:HD22	1:113:A:ASN:HA	16	0.21
(2,2805)	1:126:A:ILE:HD12	1:130:A:ALA:H	3	0.21
(2,2805)	1:126:A:ILE:HD12	1:130:A:ALA:H	16	0.21
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	11	0.21
(2,2725)	1:19:A:ASN:HB2	1:19:A:ASN:HD22	5	0.21
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	1	0.21
(2,2611)	1:150:A:ILE:HD11	1:144:A:PHE:H	6	0.21
(2,2611)	1:150:A:ILE:HD13	1:144:A:PHE:H	14	0.21
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD21	3	0.21
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD23	15	0.21
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	10	0.21
(2,2530)	1:83:A:ARG:HG3	1:83:A:ARG:H	8	0.21
(2,2530)	1:83:A:ARG:HG3	1:83:A:ARG:H	10	0.21
(2,2524)	1:83:A:ARG:HB2	1:83:A:ARG:H	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2519)	1:92:A:LEU:H	1:71:A:TYR:HE1	8	0.21
(2,2444)	1:67:A:VAL:HG12	1:68:A:ARG:H	16	0.21
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	13	0.21
(2,2389)	1:107:A:ASP:HB3	1:109:A:ILE:H	9	0.21
(2,2370)	1:145:A:LEU:HD22	1:136:A:GLN:HE22	18	0.21
(2,2321)	1:81:A:LEU:HD21	1:87:A:VAL:HB	15	0.21
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG21	14	0.21
(2,2288)	1:162:A:ALA:HB2	1:161:A:HIS:HB2	17	0.21
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD13	4	0.21
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD11	6	0.21
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD12	11	0.21
(2,2232)	1:89:A:VAL:HG12	1:125:A:PHE:HD1	19	0.21
(2,2212)	1:77:A:LEU:HD13	1:144:A:PHE:HZ	9	0.21
(2,2210)	1:77:A:LEU:HD13	1:144:A:PHE:HD2	14	0.21
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	18	0.21
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	9	0.21
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	17	0.21
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG23	3	0.21
(2,2094)	1:98:A:LEU:HD23	1:97:A:PHE:HZ	16	0.21
(2,2080)	1:15:A:PRO:HD2	1:14:A:LYS:HA	1	0.21
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	1	0.21
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	10	0.21
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	18	0.21
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	20	0.21
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD11	17	0.21
(2,1955)	1:145:A:LEU:HB2	1:145:A:LEU:HD23	17	0.21
(2,1929)	1:141:A:LEU:HD21	1:138:A:GLU:H	10	0.21
(2,1929)	1:141:A:LEU:HD21	1:138:A:GLU:H	19	0.21
(2,1922)	1:33:A:VAL:HG21	1:33:A:VAL:HA	9	0.21
(2,1919)	1:33:A:VAL:HG21	1:49:A:TYR:HB2	3	0.21
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG21	11	0.21
(2,1915)	1:134:A:LEU:HD22	1:86:A:LYS:HB3	8	0.21
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	6	0.21
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	11	0.21
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	13	0.21
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	15	0.21
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	20	0.21
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD12	9	0.21
(2,1813)	1:86:A:LYS:HG3	1:86:A:LYS:HA	3	0.21
(2,1777)	1:80:A:GLU:HG2	1:80:A:GLU:H	5	0.21
(2,1756)	1:92:A:LEU:HD11	1:75:A:GLU:HB2	3	0.21
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	5	0.21
(2,1706)	1:47:A:THR:HG21	1:36:A:PRO:HG2	20	0.21
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG22	2	0.21
(2,1672)	1:31:A:ILE:HG22	1:127:A:ASN:H	3	0.21
(2,1671)	1:31:A:ILE:HG22	1:127:A:ASN:HD21	4	0.21
(2,1671)	1:31:A:ILE:HG21	1:127:A:ASN:HD21	6	0.21
(2,1612)	1:66:A:THR:HG22	1:50:A:GLU:HB3	13	0.21
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	5	0.21
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	12	0.21
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	7	0.21
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	3	0.21
(2,1499)	1:57:A:LEU:HD21	1:58:A:PRO:HD3	13	0.21
(2,1489)	1:29:A:LEU:HD13	1:55:A:THR:HA	7	0.21
(2,1489)	1:29:A:LEU:HD11	1:55:A:THR:HA	20	0.21
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	17	0.21
(2,1482)	1:15:A:PRO:HA	1:15:A:PRO:HD2	20	0.21
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	4	0.21
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	10	0.21
(2,1391)	1:41:A:VAL:HG23	1:41:A:VAL:HB	1	0.21
(2,1391)	1:41:A:VAL:HG22	1:41:A:VAL:HB	4	0.21
(2,1391)	1:41:A:VAL:HG23	1:41:A:VAL:HB	9	0.21
(2,1391)	1:41:A:VAL:HG22	1:41:A:VAL:HB	12	0.21
(2,1391)	1:41:A:VAL:HG22	1:41:A:VAL:HB	13	0.21
(2,1391)	1:41:A:VAL:HG21	1:41:A:VAL:HB	17	0.21
(2,1391)	1:41:A:VAL:HG21	1:41:A:VAL:HB	18	0.21
(2,1391)	1:41:A:VAL:HG21	1:41:A:VAL:HB	19	0.21
(2,1386)	1:135:A:ALA:HB1	1:130:A:ALA:H	19	0.21
(2,1371)	1:21:A:ALA:HB2	1:22:A:TYR:HD1	17	0.21
(2,1351)	1:51:A:ILE:HG23	1:66:A:THR:HA	2	0.21
(2,1351)	1:51:A:ILE:HG21	1:66:A:THR:HA	20	0.21
(2,1330)	1:115:A:ILE:HG23	1:37:A:GLN:H	5	0.21
(2,1328)	1:115:A:ILE:HG21	1:114:A:PHE:HE2	3	0.21
(2,1324)	1:12:A:ILE:HG22	1:12:A:ILE:HB	1	0.21
(2,1324)	1:12:A:ILE:HG21	1:12:A:ILE:HB	3	0.21
(2,1324)	1:12:A:ILE:HG21	1:12:A:ILE:HB	7	0.21
(2,1324)	1:12:A:ILE:HG21	1:12:A:ILE:HB	11	0.21
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG23	19	0.21
(2,1299)	1:51:A:ILE:HD12	1:33:A:VAL:HB	1	0.21
(2,1294)	1:51:A:ILE:HD11	1:67:A:VAL:HG22	11	0.21
(2,1212)	1:29:A:LEU:HD13	1:57:A:LEU:H	14	0.21
(2,1212)	1:29:A:LEU:HD11	1:57:A:LEU:H	18	0.21
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	5	0.21
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	14	0.21
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	15	0.21
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	16	0.21
(2,1150)	1:122:A:LEU:HB3	1:122:A:LEU:HB2	20	0.21
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	1	0.21
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	3	0.21
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	4	0.21
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	5	0.21
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	11	0.21
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD13	13	0.21
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD13	16	0.21
(2,1100)	1:11:A:LEU:HB3	1:11:A:LEU:H	9	0.21
(2,1072)	1:159:A:ILE:HD11	1:139:A:ARG:HD2	19	0.21
(2,1056)	1:159:A:ILE:HD11	1:139:A:ARG:H	15	0.21
(2,1055)	1:151:A:ASP:HB3	1:150:A:ILE:HA	6	0.21
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	14	0.21
(2,999)	1:101:A:LEU:HD12	1:101:A:LEU:HA	4	0.21
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD21	2	0.21
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD22	15	0.21
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD23	19	0.21
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	8	0.21
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	14	0.21
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	17	0.21
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	7	0.21
(2,863)	1:115:A:ILE:HD12	1:114:A:PHE:HB3	17	0.21
(2,755)	1:122:A:LEU:HD22	1:122:A:LEU:HA	6	0.21
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	1	0.21
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	6	0.21
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	8	0.21
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	9	0.21
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	11	0.21
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	12	0.21
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	14	0.21
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	15	0.21
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	17	0.21
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	18	0.21
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	20	0.21
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG22	3	0.21
(2,673)	1:55:A:THR:HG21	1:62:A:LEU:H	4	0.21
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	18	0.21
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB2	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,619)	1:129:A:VAL:HG11	1:129:A:VAL:HG21	2	0.21
(2,619)	1:129:A:VAL:HG13	1:129:A:VAL:HG23	11	0.21
(2,619)	1:129:A:VAL:HG11	1:129:A:VAL:HG23	13	0.21
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG21	1	0.21
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG23	4	0.21
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG21	9	0.21
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG22	10	0.21
(2,608)	1:129:A:VAL:HG13	1:126:A:ILE:HA	17	0.21
(2,598)	1:129:A:VAL:HG13	1:125:A:PHE:HD1	16	0.21
(2,596)	1:129:A:VAL:HG12	1:128:A:LYS:H	1	0.21
(2,596)	1:129:A:VAL:HG12	1:128:A:LYS:H	9	0.21
(2,562)	1:143:A:MET:HA	1:147:A:ASP:HB3	18	0.21
(2,549)	1:143:A:MET:HE2	1:150:A:ILE:HG12	1	0.21
(2,542)	1:143:A:MET:HE1	1:154:A:TYR:HE1	14	0.21
(2,541)	1:143:A:MET:HE2	1:144:A:PHE:HD1	10	0.21
(2,539)	1:143:A:MET:HE1	1:154:A:TYR:H	3	0.21
(2,488)	1:126:A:ILE:HG23	1:126:A:ILE:HA	3	0.21
(2,488)	1:126:A:ILE:HG23	1:126:A:ILE:HA	4	0.21
(2,488)	1:126:A:ILE:HG21	1:126:A:ILE:HA	6	0.21
(2,488)	1:126:A:ILE:HG22	1:126:A:ILE:HA	12	0.21
(2,488)	1:126:A:ILE:HG23	1:126:A:ILE:HA	17	0.21
(2,455)	1:48:A:THR:HG23	1:49:A:TYR:H	8	0.21
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG12	1	0.21
(2,381)	1:89:A:VAL:HG12	1:81:A:LEU:HD12	3	0.21
(2,372)	1:89:A:VAL:HG13	1:81:A:LEU:HB2	16	0.21
(2,372)	1:89:A:VAL:HG12	1:81:A:LEU:HB2	17	0.21
(2,357)	1:89:A:VAL:HG12	1:125:A:PHE:HZ	19	0.21
(2,312)	1:92:A:LEU:HD23	1:74:A:PHE:HA	4	0.21
(2,311)	1:92:A:LEU:HD13	1:92:A:LEU:H	15	0.21
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG22	9	0.21
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG22	13	0.21
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG23	8	0.21
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	6	0.21
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	9	0.21
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	19	0.21
(2,151)	1:66:A:THR:HG23	1:50:A:GLU:H	19	0.21
(2,133)	1:67:A:VAL:HG12	1:66:A:THR:H	1	0.21
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	9	0.21
(2,4975)	1:108:A:GLY:H	1:105:A:GLY:HA3	15	0.2
(2,4973)	1:137:A:ASN:HD21	1:159:A:ILE:HG22	20	0.2
(2,4931)	1:139:A:ARG:H	1:159:A:ILE:HG23	1	0.2
(2,4931)	1:139:A:ARG:H	1:159:A:ILE:HG22	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4905)	1:126:A:ILE:H	1:51:A:ILE:HG13	6	0.2
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE3	6	0.2
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	10	0.2
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	18	0.2
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	17	0.2
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD11	3	0.2
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD11	10	0.2
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	8	0.2
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	4	0.2
(2,4760)	1:5:A:VAL:HG11	1:4:A:THR:H	14	0.2
(2,4722)	1:161:A:HIS:HA	1:160:A:ARG:H	10	0.2
(2,4721)	1:160:A:ARG:H	1:158:A:LYS:HE2	12	0.2
(2,4715)	1:105:A:GLY:H	1:104:A:ARG:HG3	3	0.2
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	11	0.2
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	9	0.2
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	4	0.2
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	15	0.2
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	10	0.2
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	12	0.2
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	10	0.2
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	5	0.2
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	17	0.2
(2,4688)	1:136:A:GLN:H	1:134:A:LEU:HD22	19	0.2
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	6	0.2
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	12	0.2
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	16	0.2
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	18	0.2
(2,4665)	1:159:A:ILE:H	1:158:A:LYS:HE2	17	0.2
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	5	0.2
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	2	0.2
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD21	4	0.2
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	6	0.2
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	6	0.2
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	10	0.2
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	11	0.2
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	10	0.2
(2,4498)	1:137:A:ASN:HB2	1:138:A:GLU:HG2	8	0.2
(2,4497)	1:59:A:ILE:HD13	1:137:A:ASN:HB2	11	0.2
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD12	3	0.2
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD12	5	0.2
(2,4423)	1:33:A:VAL:HG21	1:122:A:LEU:HG	2	0.2
(2,4414)	1:11:A:LEU:HA	1:10:A:ARG:HB2	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4398)	1:62:A:LEU:HD11	1:61:A:LYS:HD2	3	0.2
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD13	10	0.2
(2,4319)	1:115:A:ILE:HG21	1:118:A:ARG:HB3	1	0.2
(2,4308)	1:99:A:ARG:HA	1:99:A:ARG:HD2	2	0.2
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG22	3	0.2
(2,4272)	1:80:A:GLU:HA	1:77:A:LEU:HA	7	0.2
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	10	0.2
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	16	0.2
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	19	0.2
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	16	0.2
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	4	0.2
(2,4229)	1:58:A:PRO:HG2	1:59:A:ILE:HG23	8	0.2
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	5	0.2
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	10	0.2
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	12	0.2
(2,4192)	1:50:A:GLU:HG2	1:52:A:ARG:HD2	19	0.2
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	10	0.2
(2,4102)	1:51:A:ILE:HG22	1:53:A:VAL:HB	7	0.2
(2,4100)	1:59:A:ILE:HG22	1:141:A:LEU:HB2	13	0.2
(2,4098)	1:59:A:ILE:HG21	1:60:A:PHE:HB3	11	0.2
(2,4098)	1:59:A:ILE:HG21	1:60:A:PHE:HB3	19	0.2
(2,4095)	1:59:A:ILE:HG23	1:137:A:ASN:H	15	0.2
(2,4072)	1:101:A:LEU:HB2	1:103:A:PHE:H	13	0.2
(2,4043)	1:45:A:ARG:HD2	1:110:A:PHE:HD1	10	0.2
(2,4027)	1:152:A:LYS:HE3	1:73:A:ASP:H	4	0.2
(2,4018)	1:11:A:LEU:HB2	1:11:A:LEU:HD21	17	0.2
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	1	0.2
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	9	0.2
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	14	0.2
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	5	0.2
(2,3975)	1:3:A:GLU:HG2	1:3:A:GLU:HB2	18	0.2
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	17	0.2
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	18	0.2
(2,3942)	1:115:A:ILE:HG23	1:119:A:LYS:HE2	8	0.2
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	16	0.2
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	18	0.2
(2,3907)	1:119:A:LYS:HE3	1:116:A:GLU:H	19	0.2
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	5	0.2
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	8	0.2
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	14	0.2
(2,3892)	1:93:A:PRO:HG2	1:71:A:TYR:HE1	14	0.2
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	18	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3877)	1:123:A:GLU:HB3	1:127:A:ASN:HD22	2	0.2
(2,3877)	1:123:A:GLU:HB3	1:127:A:ASN:HD22	6	0.2
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	8	0.2
(2,3861)	1:120:A:GLN:HA	1:120:A:GLN:HG2	9	0.2
(2,3833)	1:127:A:ASN:HA	1:29:A:LEU:HD22	2	0.2
(2,3826)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	10	0.2
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	14	0.2
(2,3783)	1:143:A:MET:HE3	1:143:A:MET:HB3	7	0.2
(2,3783)	1:143:A:MET:HE2	1:143:A:MET:HB3	20	0.2
(2,3755)	1:48:A:THR:HG21	1:46:A:PHE:HB2	3	0.2
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	1	0.2
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	13	0.2
(2,3736)	1:58:A:PRO:HG2	1:59:A:ILE:H	9	0.2
(2,3736)	1:58:A:PRO:HG2	1:59:A:ILE:H	11	0.2
(2,3736)	1:58:A:PRO:HG2	1:59:A:ILE:H	19	0.2
(2,3707)	1:92:A:LEU:HD22	1:78:A:ARG:H	1	0.2
(2,3707)	1:92:A:LEU:HD21	1:78:A:ARG:H	13	0.2
(2,3703)	1:92:A:LEU:HD12	1:75:A:GLU:HG3	13	0.2
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	13	0.2
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	15	0.2
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	20	0.2
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB1	8	0.2
(2,3608)	1:131:A:GLY:HA2	1:29:A:LEU:HB3	10	0.2
(2,3560)	1:122:A:LEU:HD13	1:121:A:GLY:H	8	0.2
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	5	0.2
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	17	0.2
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	18	0.2
(2,3505)	1:39:A:VAL:HG13	1:37:A:GLN:HE22	9	0.2
(2,3501)	1:142:A:HIS:H	1:143:A:MET:HB3	17	0.2
(2,3301)	1:87:A:VAL:HG22	1:81:A:LEU:H	10	0.2
(2,3301)	1:87:A:VAL:HG21	1:81:A:LEU:H	14	0.2
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	5	0.2
(2,3253)	1:55:A:THR:HG22	1:64:A:GLU:H	18	0.2
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	6	0.2
(2,3201)	1:47:A:THR:H	1:46:A:PHE:HE2	12	0.2
(2,3170)	1:38:A:THR:HG22	1:38:A:THR:H	7	0.2
(2,3170)	1:38:A:THR:HG22	1:38:A:THR:H	15	0.2
(2,3170)	1:38:A:THR:HG23	1:38:A:THR:H	20	0.2
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	12	0.2
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	17	0.2
(2,3056)	1:16:A:GLN:H	1:16:A:GLN:HE22	2	0.2
(2,3024)	1:11:A:LEU:HD11	1:10:A:ARG:H	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3024)	1:11:A:LEU:HD12	1:10:A:ARG:H	12	0.2
(2,2996)	1:6:A:ALA:HB2	1:6:A:ALA:H	11	0.2
(2,2996)	1:6:A:ALA:HB3	1:6:A:ALA:H	14	0.2
(2,2995)	1:4:A:THR:HA	1:5:A:VAL:H	17	0.2
(2,2983)	1:4:A:THR:H	1:3:A:GLU:HB2	6	0.2
(2,2979)	1:2:A:ALA:HB1	1:3:A:GLU:H	15	0.2
(2,2979)	1:2:A:ALA:HB3	1:3:A:GLU:H	20	0.2
(2,2971)	1:2:A:ALA:H	1:1:A:THR:HG23	20	0.2
(2,2805)	1:126:A:ILE:HD13	1:130:A:ALA:H	4	0.2
(2,2805)	1:126:A:ILE:HD12	1:130:A:ALA:H	11	0.2
(2,2805)	1:126:A:ILE:HD12	1:130:A:ALA:H	19	0.2
(2,2786)	1:41:A:VAL:H	1:39:A:VAL:HG22	14	0.2
(2,2700)	1:37:A:GLN:HE22	1:39:A:VAL:H	18	0.2
(2,2672)	1:102:A:PRO:HB2	1:103:A:PHE:H	13	0.2
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG23	16	0.2
(2,2611)	1:150:A:ILE:HD12	1:144:A:PHE:H	9	0.2
(2,2611)	1:150:A:ILE:HD13	1:144:A:PHE:H	11	0.2
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	6	0.2
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD22	7	0.2
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD22	8	0.2
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	12	0.2
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	20	0.2
(2,2373)	1:33:A:VAL:HG22	1:49:A:TYR:HE1	5	0.2
(2,2373)	1:33:A:VAL:HG21	1:49:A:TYR:HE1	9	0.2
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	1	0.2
(2,2321)	1:81:A:LEU:HD23	1:87:A:VAL:HB	5	0.2
(2,2251)	1:130:A:ALA:HB2	1:126:A:ILE:HD12	16	0.2
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD13	5	0.2
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD12	16	0.2
(2,2232)	1:89:A:VAL:HG11	1:125:A:PHE:HD1	2	0.2
(2,2231)	1:81:A:LEU:HD13	1:89:A:VAL:HG22	11	0.2
(2,2222)	1:78:A:ARG:HG2	1:92:A:LEU:HD11	19	0.2
(2,2163)	1:44:A:GLY:HA2	1:43:A:ARG:HB3	10	0.2
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG21	20	0.2
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG21	13	0.2
(2,2142)	1:31:A:ILE:HG22	1:33:A:VAL:HG13	5	0.2
(2,2095)	1:134:A:LEU:HD21	1:88:A:VAL:H	6	0.2
(2,2095)	1:134:A:LEU:HD23	1:88:A:VAL:H	8	0.2
(2,2095)	1:134:A:LEU:HD21	1:88:A:VAL:H	15	0.2
(2,2095)	1:134:A:LEU:HD23	1:88:A:VAL:H	16	0.2
(2,2095)	1:134:A:LEU:HD22	1:88:A:VAL:H	18	0.2
(2,2094)	1:98:A:LEU:HD21	1:97:A:PHE:HZ	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	3	0.2
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	6	0.2
(2,2026)	1:54:A:LYS:HB2	1:28:A:PHE:HD1	19	0.2
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD12	11	0.2
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD12	14	0.2
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD11	20	0.2
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	15	0.2
(2,1929)	1:141:A:LEU:HD23	1:138:A:GLU:H	15	0.2
(2,1922)	1:33:A:VAL:HG23	1:33:A:VAL:HA	18	0.2
(2,1919)	1:33:A:VAL:HG22	1:49:A:TYR:HB2	10	0.2
(2,1919)	1:33:A:VAL:HG23	1:49:A:TYR:HB2	17	0.2
(2,1919)	1:33:A:VAL:HG21	1:49:A:TYR:HB2	19	0.2
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	4	0.2
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	10	0.2
(2,1898)	1:115:A:ILE:HG22	1:116:A:GLU:HB2	13	0.2
(2,1898)	1:115:A:ILE:HG22	1:116:A:GLU:HB2	16	0.2
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	17	0.2
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	12	0.2
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD12	11	0.2
(2,1813)	1:86:A:LYS:HG3	1:86:A:LYS:HA	7	0.2
(2,1777)	1:80:A:GLU:HG2	1:80:A:GLU:H	4	0.2
(2,1777)	1:80:A:GLU:HG2	1:80:A:GLU:H	12	0.2
(2,1777)	1:80:A:GLU:HG2	1:80:A:GLU:H	18	0.2
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG22	17	0.2
(2,1671)	1:31:A:ILE:HG22	1:127:A:ASN:HD21	11	0.2
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	18	0.2
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG23	15	0.2
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	4	0.2
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	20	0.2
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	20	0.2
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	5	0.2
(2,1535)	1:46:A:PHE:HA	1:46:A:PHE:HE1	7	0.2
(2,1511)	1:59:A:ILE:HG22	1:57:A:LEU:HG	2	0.2
(2,1489)	1:29:A:LEU:HD11	1:55:A:THR:HA	14	0.2
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	5	0.2
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	9	0.2
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	2	0.2
(2,1398)	1:33:A:VAL:HG11	1:74:A:PHE:HD2	11	0.2
(2,1391)	1:41:A:VAL:HG22	1:41:A:VAL:HB	2	0.2
(2,1391)	1:41:A:VAL:HG21	1:41:A:VAL:HB	16	0.2
(2,1384)	1:135:A:ALA:HB2	1:137:A:ASN:H	8	0.2
(2,1371)	1:21:A:ALA:HB2	1:22:A:TYR:HD1	14	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1351)	1:51:A:ILE:HG23	1:66:A:THR:HA	18	0.2
(2,1350)	1:51:A:ILE:HG23	1:145:A:LEU:HA	5	0.2
(2,1326)	1:12:A:ILE:HG23	1:13:A:THR:HA	18	0.2
(2,1324)	1:12:A:ILE:HG23	1:12:A:ILE:HB	4	0.2
(2,1324)	1:12:A:ILE:HG23	1:12:A:ILE:HB	6	0.2
(2,1324)	1:12:A:ILE:HG22	1:12:A:ILE:HB	8	0.2
(2,1324)	1:12:A:ILE:HG21	1:12:A:ILE:HB	9	0.2
(2,1324)	1:12:A:ILE:HG23	1:12:A:ILE:HB	10	0.2
(2,1324)	1:12:A:ILE:HG21	1:12:A:ILE:HB	12	0.2
(2,1324)	1:12:A:ILE:HG22	1:12:A:ILE:HB	14	0.2
(2,1324)	1:12:A:ILE:HG22	1:12:A:ILE:HB	16	0.2
(2,1324)	1:12:A:ILE:HG23	1:12:A:ILE:HB	17	0.2
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG23	9	0.2
(2,1312)	1:149:A:ILE:HG22	1:151:A:ASP:H	5	0.2
(2,1312)	1:149:A:ILE:HG21	1:151:A:ASP:H	19	0.2
(2,1283)	1:31:A:ILE:HD13	1:31:A:ILE:H	6	0.2
(2,1283)	1:31:A:ILE:HD12	1:31:A:ILE:H	17	0.2
(2,1257)	1:150:A:ILE:HG22	1:152:A:LYS:HG2	4	0.2
(2,1244)	1:81:A:LEU:HD23	1:135:A:ALA:HB2	16	0.2
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG21	9	0.2
(2,1137)	1:59:A:ILE:HD13	1:59:A:ILE:HB	16	0.2
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	19	0.2
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	8	0.2
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	8	0.2
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	14	0.2
(2,1093)	1:139:A:ARG:HG2	1:154:A:TYR:HE2	3	0.2
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	13	0.2
(2,1063)	1:159:A:ILE:HD11	1:142:A:HIS:HB3	9	0.2
(2,1056)	1:159:A:ILE:HD12	1:139:A:ARG:H	4	0.2
(2,1056)	1:159:A:ILE:HD11	1:139:A:ARG:H	20	0.2
(2,1050)	1:148:A:GLU:HB2	1:149:A:ILE:HG13	15	0.2
(2,1022)	1:148:A:GLU:HA	1:148:A:GLU:HG2	6	0.2
(2,996)	1:101:A:LEU:HD21	1:101:A:LEU:HG	3	0.2
(2,996)	1:101:A:LEU:HD22	1:101:A:LEU:HG	13	0.2
(2,996)	1:101:A:LEU:HD21	1:101:A:LEU:HG	15	0.2
(2,996)	1:101:A:LEU:HD22	1:101:A:LEU:HG	19	0.2
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD22	4	0.2
(2,988)	1:102:A:PRO:HD2	1:101:A:LEU:HB3	18	0.2
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	5	0.2
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	6	0.2
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	12	0.2
(2,982)	1:12:A:ILE:HA	1:12:A:ILE:HG13	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,877)	1:115:A:ILE:HG21	1:47:A:THR:HG23	10	0.2
(2,755)	1:122:A:LEU:HD21	1:122:A:LEU:HA	1	0.2
(2,755)	1:122:A:LEU:HD21	1:122:A:LEU:HA	9	0.2
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	2	0.2
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	3	0.2
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	4	0.2
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	5	0.2
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	7	0.2
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	10	0.2
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	13	0.2
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	16	0.2
(2,713)	1:120:A:GLN:HG2	1:120:A:GLN:HE22	19	0.2
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG22	5	0.2
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG23	19	0.2
(2,673)	1:55:A:THR:HG22	1:62:A:LEU:H	17	0.2
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB1	5	0.2
(2,619)	1:129:A:VAL:HG12	1:129:A:VAL:HG22	4	0.2
(2,619)	1:129:A:VAL:HG12	1:129:A:VAL:HG21	5	0.2
(2,619)	1:129:A:VAL:HG12	1:129:A:VAL:HG21	6	0.2
(2,619)	1:129:A:VAL:HG11	1:129:A:VAL:HG21	7	0.2
(2,619)	1:129:A:VAL:HG13	1:129:A:VAL:HG21	18	0.2
(2,619)	1:129:A:VAL:HG13	1:129:A:VAL:HG21	20	0.2
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG21	8	0.2
(2,608)	1:129:A:VAL:HG12	1:126:A:ILE:HA	1	0.2
(2,598)	1:129:A:VAL:HG13	1:125:A:PHE:HD1	15	0.2
(2,596)	1:129:A:VAL:HG12	1:128:A:LYS:H	2	0.2
(2,539)	1:143:A:MET:HE1	1:154:A:TYR:H	20	0.2
(2,531)	1:143:A:MET:HE2	1:154:A:TYR:HB2	3	0.2
(2,531)	1:143:A:MET:HE1	1:154:A:TYR:HB2	10	0.2
(2,531)	1:143:A:MET:HE2	1:154:A:TYR:HB2	14	0.2
(2,531)	1:143:A:MET:HE2	1:154:A:TYR:HB2	20	0.2
(2,523)	1:122:A:LEU:HD13	1:125:A:PHE:HZ	10	0.2
(2,488)	1:126:A:ILE:HG23	1:126:A:ILE:HA	1	0.2
(2,488)	1:126:A:ILE:HG21	1:126:A:ILE:HA	2	0.2
(2,488)	1:126:A:ILE:HG23	1:126:A:ILE:HA	5	0.2
(2,488)	1:126:A:ILE:HG23	1:126:A:ILE:HA	9	0.2
(2,488)	1:126:A:ILE:HG21	1:126:A:ILE:HA	13	0.2
(2,488)	1:126:A:ILE:HG23	1:126:A:ILE:HA	15	0.2
(2,488)	1:126:A:ILE:HG21	1:126:A:ILE:HA	19	0.2
(2,455)	1:48:A:THR:HG21	1:49:A:TYR:H	12	0.2
(2,455)	1:48:A:THR:HG23	1:49:A:TYR:H	14	0.2
(2,455)	1:48:A:THR:HG21	1:49:A:TYR:H	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,381)	1:89:A:VAL:HG11	1:81:A:LEU:HD13	14	0.2
(2,375)	1:89:A:VAL:HG21	1:78:A:ARG:HG3	10	0.2
(2,362)	1:89:A:VAL:HG22	1:87:A:VAL:H	5	0.2
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	9	0.2
(2,311)	1:92:A:LEU:HD13	1:92:A:LEU:H	16	0.2
(2,310)	1:92:A:LEU:HD23	1:92:A:LEU:H	11	0.2
(2,291)	1:92:A:LEU:HD21	1:93:A:PRO:HD3	18	0.2
(2,257)	1:150:A:ILE:HD11	1:152:A:LYS:HE2	2	0.2
(2,251)	1:150:A:ILE:HG21	1:154:A:TYR:HE1	13	0.2
(2,241)	1:150:A:ILE:HG22	1:151:A:ASP:H	5	0.2
(2,241)	1:150:A:ILE:HG21	1:151:A:ASP:H	8	0.2
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG23	12	0.2
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	11	0.2
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	12	0.2
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	15	0.2
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	20	0.2
(2,151)	1:66:A:THR:HG21	1:50:A:GLU:H	12	0.2
(2,150)	1:66:A:THR:HG23	1:53:A:VAL:H	12	0.2
(2,150)	1:66:A:THR:HG22	1:53:A:VAL:H	20	0.2
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG21	2	0.2
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG23	9	0.2
(2,46)	1:83:A:ARG:HB3	1:83:A:ARG:HD3	15	0.2
(2,4973)	1:59:A:ILE:HD12	1:137:A:ASN:HD21	8	0.19
(2,4973)	1:59:A:ILE:HD13	1:137:A:ASN:HD21	16	0.19
(2,4945)	1:77:A:LEU:HD22	1:142:A:HIS:H	1	0.19
(2,4945)	1:77:A:LEU:HD22	1:142:A:HIS:H	18	0.19
(2,4931)	1:139:A:ARG:H	1:141:A:LEU:HD11	3	0.19
(2,4905)	1:126:A:ILE:H	1:51:A:ILE:HG13	14	0.19
(2,4899)	1:124:A:GLN:HE22	1:121:A:GLY:HA2	10	0.19
(2,4891)	1:143:A:MET:H	1:77:A:LEU:HD23	17	0.19
(2,4864)	1:107:A:ASP:H	1:108:A:GLY:HA2	16	0.19
(2,4852)	1:97:A:PHE:HB2	1:96:A:ALA:H	10	0.19
(2,4852)	1:97:A:PHE:HB2	1:96:A:ALA:H	17	0.19
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD12	14	0.19
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	15	0.19
(2,4816)	1:81:A:LEU:HD13	1:81:A:LEU:H	19	0.19
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD2	2	0.19
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	1	0.19
(2,4774)	1:11:A:LEU:H	1:10:A:ARG:HD2	9	0.19
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	9	0.19
(2,4722)	1:161:A:HIS:HA	1:160:A:ARG:H	11	0.19
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	15	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	2	0.19
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD13	18	0.19
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	17	0.19
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	3	0.19
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	4	0.19
(2,4668)	1:157:A:SER:H	1:139:A:ARG:HG3	5	0.19
(2,4665)	1:159:A:ILE:H	1:158:A:LYS:HE2	7	0.19
(2,4665)	1:159:A:ILE:H	1:158:A:LYS:HE3	14	0.19
(2,4665)	1:159:A:ILE:H	1:158:A:LYS:HE2	19	0.19
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	9	0.19
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	10	0.19
(2,4592)	1:20:A:ASP:HB2	1:21:A:ALA:H	6	0.19
(2,4592)	1:20:A:ASP:HB3	1:21:A:ALA:H	10	0.19
(2,4589)	1:35:A:ASN:H	1:36:A:PRO:HB3	15	0.19
(2,4581)	1:106:A:ASP:HB3	1:105:A:GLY:HA2	3	0.19
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	4	0.19
(2,4580)	1:107:A:ASP:HB2	1:108:A:GLY:HA3	11	0.19
(2,4574)	1:88:A:VAL:HG23	1:90:A:PRO:HD2	3	0.19
(2,4557)	1:33:A:VAL:HG21	1:124:A:GLN:H	14	0.19
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	7	0.19
(2,4534)	1:149:A:ILE:HG21	1:150:A:ILE:HG13	4	0.19
(2,4534)	1:149:A:ILE:HG22	1:150:A:ILE:HG13	11	0.19
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	8	0.19
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	18	0.19
(2,4518)	1:115:A:ILE:HD13	1:113:A:ASN:H	9	0.19
(2,4497)	1:59:A:ILE:HD12	1:137:A:ASN:HB2	8	0.19
(2,4484)	1:95:A:LYS:HG2	1:95:A:LYS:HE2	2	0.19
(2,4473)	1:77:A:LEU:HD13	1:144:A:PHE:HB2	12	0.19
(2,4473)	1:77:A:LEU:HD12	1:144:A:PHE:HB2	19	0.19
(2,4454)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	5	0.19
(2,4426)	1:18:A:LEU:HA	1:17:A:ASN:HB2	11	0.19
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD23	4	0.19
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD13	1	0.19
(2,4335)	1:77:A:LEU:HD21	1:141:A:LEU:HB3	13	0.19
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG21	5	0.19
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG23	8	0.19
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG22	12	0.19
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG22	13	0.19
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	9	0.19
(2,4273)	1:16:A:GLN:HG3	1:15:A:PRO:HA	17	0.19
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	9	0.19
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	11	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	15	0.19
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	8	0.19
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	16	0.19
(2,4202)	1:159:A:ILE:HG23	1:160:A:ARG:HD3	9	0.19
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	12	0.19
(2,4198)	1:160:A:ARG:HD3	1:137:A:ASN:HD22	20	0.19
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	1	0.19
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	15	0.19
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	11	0.19
(2,4136)	1:137:A:ASN:HB2	1:134:A:LEU:HB2	17	0.19
(2,4098)	1:59:A:ILE:HG23	1:60:A:PHE:HB3	13	0.19
(2,4082)	1:126:A:ILE:HD13	1:129:A:VAL:H	5	0.19
(2,4082)	1:126:A:ILE:HD12	1:129:A:VAL:H	11	0.19
(2,4082)	1:126:A:ILE:HD12	1:129:A:VAL:H	13	0.19
(2,4058)	1:29:A:LEU:HD11	1:31:A:ILE:HA	2	0.19
(2,4052)	1:29:A:LEU:HD21	1:57:A:LEU:HG	10	0.19
(2,4052)	1:29:A:LEU:HD22	1:57:A:LEU:HG	11	0.19
(2,4052)	1:29:A:LEU:HD21	1:57:A:LEU:HG	14	0.19
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD12	7	0.19
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD12	19	0.19
(2,4018)	1:11:A:LEU:HB2	1:11:A:LEU:HD22	13	0.19
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	10	0.19
(2,3994)	1:101:A:LEU:HD13	1:101:A:LEU:HG	8	0.19
(2,3991)	1:26:A:SER:HB3	1:57:A:LEU:HD21	17	0.19
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	2	0.19
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	4	0.19
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	7	0.19
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	15	0.19
(2,3958)	1:109:A:ILE:HD12	1:107:A:ASP:H	5	0.19
(2,3947)	1:115:A:ILE:HG23	1:36:A:PRO:HG2	17	0.19
(2,3943)	1:115:A:ILE:HD11	1:112:A:ASP:HB2	7	0.19
(2,3925)	1:118:A:ARG:HA	1:93:A:PRO:HG2	5	0.19
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	2	0.19
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	8	0.19
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	14	0.19
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	6	0.19
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	7	0.19
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	12	0.19
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	19	0.19
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	5	0.19
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	16	0.19
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3849)	1:55:A:THR:HG23	1:29:A:LEU:HD13	14	0.19
(2,3847)	1:159:A:ILE:HG22	1:136:A:GLN:HB2	1	0.19
(2,3833)	1:127:A:ASN:HA	1:29:A:LEU:HD23	9	0.19
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	15	0.19
(2,3762)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	17	0.19
(2,3759)	1:53:A:VAL:HG22	1:30:A:GLU:H	4	0.19
(2,3745)	1:87:A:VAL:HG21	1:138:A:GLU:HB2	12	0.19
(2,3740)	1:87:A:VAL:HG23	1:86:A:LYS:H	2	0.19
(2,3740)	1:87:A:VAL:HG22	1:86:A:LYS:H	14	0.19
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	8	0.19
(2,3736)	1:58:A:PRO:HG2	1:59:A:ILE:H	20	0.19
(2,3728)	1:89:A:VAL:HG12	1:78:A:ARG:HG2	2	0.19
(2,3715)	1:90:A:PRO:HD3	1:128:A:LYS:HD3	7	0.19
(2,3705)	1:92:A:LEU:HG	1:93:A:PRO:HD3	4	0.19
(2,3702)	1:92:A:LEU:HD22	1:75:A:GLU:HG2	2	0.19
(2,3690)	1:150:A:ILE:HD11	1:143:A:MET:HG3	7	0.19
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	19	0.19
(2,3584)	1:108:A:GLY:H	1:109:A:ILE:HA	7	0.19
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	3	0.19
(2,3520)	1:161:A:HIS:HB3	1:162:A:ALA:H	16	0.19
(2,3303)	1:84:A:GLU:H	1:83:A:ARG:HB3	3	0.19
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD1	3	0.19
(2,3253)	1:55:A:THR:HG23	1:64:A:GLU:H	1	0.19
(2,3253)	1:55:A:THR:HG21	1:64:A:GLU:H	10	0.19
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	19	0.19
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG22	6	0.19
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD23	10	0.19
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	1	0.19
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	3	0.19
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	6	0.19
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	9	0.19
(2,3066)	1:16:A:GLN:HE21	1:16:A:GLN:HB2	20	0.19
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	19	0.19
(2,2983)	1:4:A:THR:H	1:3:A:GLU:HB2	7	0.19
(2,2983)	1:4:A:THR:H	1:3:A:GLU:HB2	8	0.19
(2,2979)	1:2:A:ALA:HB1	1:3:A:GLU:H	3	0.19
(2,2979)	1:2:A:ALA:HB3	1:3:A:GLU:H	8	0.19
(2,2938)	1:4:A:THR:HG22	1:5:A:VAL:H	10	0.19
(2,2913)	1:115:A:ILE:HD13	1:37:A:GLN:H	7	0.19
(2,2805)	1:126:A:ILE:HD11	1:130:A:ALA:H	2	0.19
(2,2805)	1:126:A:ILE:HD12	1:130:A:ALA:H	10	0.19
(2,2805)	1:126:A:ILE:HD11	1:130:A:ALA:H	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2783)	1:41:A:VAL:H	1:45:A:ARG:HD3	9	0.19
(2,2761)	1:45:A:ARG:HD3	1:45:A:ARG:H	8	0.19
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	10	0.19
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	14	0.19
(2,2708)	1:35:A:ASN:HD22	1:50:A:GLU:HG2	20	0.19
(2,2700)	1:37:A:GLN:HE22	1:39:A:VAL:H	12	0.19
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	16	0.19
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	9	0.19
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG22	14	0.19
(2,2624)	1:148:A:GLU:H	1:147:A:ASP:HB3	16	0.19
(2,2611)	1:150:A:ILE:HD12	1:144:A:PHE:H	13	0.19
(2,2558)	1:89:A:VAL:HG13	1:82:A:GLU:H	19	0.19
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	18	0.19
(2,2530)	1:83:A:ARG:HG3	1:83:A:ARG:H	16	0.19
(2,2530)	1:83:A:ARG:HG3	1:83:A:ARG:H	18	0.19
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	6	0.19
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	13	0.19
(2,2444)	1:67:A:VAL:HG12	1:68:A:ARG:H	13	0.19
(2,2444)	1:67:A:VAL:HG11	1:68:A:ARG:H	20	0.19
(2,2410)	1:109:A:ILE:HG21	1:114:A:PHE:HB2	19	0.19
(2,2404)	1:112:A:ASP:HB3	1:115:A:ILE:HD11	19	0.19
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	9	0.19
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	6	0.19
(2,2338)	1:29:A:LEU:HD22	1:130:A:ALA:H	18	0.19
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG23	3	0.19
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG22	9	0.19
(2,2267)	1:135:A:ALA:HB2	1:136:A:GLN:HG3	4	0.19
(2,2251)	1:130:A:ALA:HB1	1:126:A:ILE:HD13	5	0.19
(2,2251)	1:130:A:ALA:HB3	1:126:A:ILE:HD13	11	0.19
(2,2250)	1:127:A:ASN:HA	1:126:A:ILE:HD12	16	0.19
(2,2232)	1:89:A:VAL:HG12	1:125:A:PHE:HD1	10	0.19
(2,2222)	1:78:A:ARG:HG2	1:92:A:LEU:HD13	18	0.19
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	2	0.19
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG12	4	0.19
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG23	4	0.19
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG21	12	0.19
(2,2095)	1:134:A:LEU:HD22	1:88:A:VAL:H	5	0.19
(2,2095)	1:134:A:LEU:HD23	1:88:A:VAL:H	9	0.19
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD11	2	0.19
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD13	7	0.19
(2,2019)	1:134:A:LEU:HG	1:134:A:LEU:HD11	10	0.19
(2,2011)	1:134:A:LEU:HD13	1:88:A:VAL:H	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	8	0.19
(2,1965)	1:149:A:ILE:HD12	1:150:A:ILE:HA	4	0.19
(2,1929)	1:141:A:LEU:HD21	1:138:A:GLU:H	1	0.19
(2,1929)	1:141:A:LEU:HD21	1:138:A:GLU:H	12	0.19
(2,1929)	1:141:A:LEU:HD22	1:138:A:GLU:H	20	0.19
(2,1919)	1:33:A:VAL:HG23	1:49:A:TYR:HB2	11	0.19
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	15	0.19
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	16	0.19
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	11	0.19
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	14	0.19
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD12	5	0.19
(2,1777)	1:80:A:GLU:HG2	1:80:A:GLU:H	20	0.19
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	14	0.19
(2,1706)	1:47:A:THR:HG21	1:36:A:PRO:HG2	9	0.19
(2,1706)	1:47:A:THR:HG21	1:36:A:PRO:HG2	15	0.19
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG22	13	0.19
(2,1671)	1:31:A:ILE:HG23	1:127:A:ASN:HD21	1	0.19
(2,1671)	1:31:A:ILE:HG22	1:127:A:ASN:HD21	7	0.19
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	19	0.19
(2,1592)	1:77:A:LEU:HD22	1:141:A:LEU:HA	4	0.19
(2,1585)	1:141:A:LEU:HD11	1:141:A:LEU:H	15	0.19
(2,1542)	1:134:A:LEU:HB3	1:88:A:VAL:H	11	0.19
(2,1500)	1:57:A:LEU:HD21	1:58:A:PRO:HD2	15	0.19
(2,1499)	1:57:A:LEU:HD22	1:58:A:PRO:HD3	3	0.19
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	2	0.19
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	3	0.19
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	6	0.19
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	16	0.19
(2,1406)	1:39:A:VAL:HG23	1:39:A:VAL:HA	3	0.19
(2,1406)	1:39:A:VAL:HG23	1:39:A:VAL:HA	6	0.19
(2,1398)	1:33:A:VAL:HG12	1:74:A:PHE:HD2	4	0.19
(2,1386)	1:135:A:ALA:HB1	1:130:A:ALA:H	20	0.19
(2,1380)	1:135:A:ALA:HB2	1:141:A:LEU:HD21	5	0.19
(2,1371)	1:21:A:ALA:HB1	1:22:A:TYR:HD1	18	0.19
(2,1339)	1:59:A:ILE:HG22	1:58:A:PRO:HD3	11	0.19
(2,1339)	1:59:A:ILE:HG22	1:58:A:PRO:HD3	15	0.19
(2,1330)	1:115:A:ILE:HG22	1:37:A:GLN:H	4	0.19
(2,1328)	1:115:A:ILE:HG22	1:114:A:PHE:HE2	4	0.19
(2,1328)	1:115:A:ILE:HG21	1:114:A:PHE:HE2	12	0.19
(2,1326)	1:12:A:ILE:HG23	1:13:A:THR:HA	3	0.19
(2,1324)	1:12:A:ILE:HG22	1:12:A:ILE:HB	5	0.19
(2,1324)	1:12:A:ILE:HG21	1:12:A:ILE:HB	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1324)	1:12:A:ILE:HG23	1:12:A:ILE:HB	18	0.19
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG22	17	0.19
(2,1319)	1:149:A:ILE:HG23	1:149:A:ILE:HB	20	0.19
(2,1290)	1:51:A:ILE:HD13	1:49:A:TYR:HB3	15	0.19
(2,1286)	1:51:A:ILE:HD13	1:144:A:PHE:HE2	18	0.19
(2,1244)	1:81:A:LEU:HD23	1:135:A:ALA:HB1	11	0.19
(2,1212)	1:29:A:LEU:HD12	1:57:A:LEU:H	6	0.19
(2,1197)	1:29:A:LEU:HD21	1:136:A:GLN:HG3	8	0.19
(2,1147)	1:122:A:LEU:HD11	1:93:A:PRO:HB3	14	0.19
(2,1137)	1:59:A:ILE:HD11	1:59:A:ILE:HB	9	0.19
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	2	0.19
(2,1114)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	6	0.19
(2,1099)	1:18:A:LEU:HD23	1:18:A:LEU:HA	15	0.19
(2,1063)	1:159:A:ILE:HD13	1:142:A:HIS:HB3	1	0.19
(2,996)	1:101:A:LEU:HD21	1:101:A:LEU:HG	4	0.19
(2,996)	1:101:A:LEU:HD22	1:101:A:LEU:HG	9	0.19
(2,996)	1:101:A:LEU:HD22	1:101:A:LEU:HG	16	0.19
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD22	8	0.19
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD23	16	0.19
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	2	0.19
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	5	0.19
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	7	0.19
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	10	0.19
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	13	0.19
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	17	0.19
(2,926)	1:109:A:ILE:HD11	1:45:A:ARG:HB3	4	0.19
(2,877)	1:115:A:ILE:HG21	1:47:A:THR:HG21	1	0.19
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG23	17	0.19
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	20	0.19
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	11	0.19
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	5	0.19
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	16	0.19
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB3	18	0.19
(2,619)	1:129:A:VAL:HG13	1:129:A:VAL:HG23	8	0.19
(2,619)	1:129:A:VAL:HG11	1:129:A:VAL:HG23	9	0.19
(2,619)	1:129:A:VAL:HG11	1:129:A:VAL:HG21	14	0.19
(2,619)	1:129:A:VAL:HG12	1:129:A:VAL:HG22	17	0.19
(2,596)	1:129:A:VAL:HG11	1:128:A:LYS:H	20	0.19
(2,541)	1:143:A:MET:HE2	1:144:A:PHE:HD1	18	0.19
(2,539)	1:143:A:MET:HE1	1:154:A:TYR:H	8	0.19
(2,530)	1:143:A:MET:HE2	1:150:A:ILE:HA	1	0.19
(2,526)	1:122:A:LEU:HD13	1:75:A:GLU:H	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,526)	1:122:A:LEU:HD12	1:75:A:GLU:H	20	0.19
(2,516)	1:122:A:LEU:HD12	1:92:A:LEU:HA	1	0.19
(2,488)	1:126:A:ILE:HG23	1:126:A:ILE:HA	10	0.19
(2,488)	1:126:A:ILE:HG21	1:126:A:ILE:HA	11	0.19
(2,488)	1:126:A:ILE:HG23	1:126:A:ILE:HA	14	0.19
(2,488)	1:126:A:ILE:HG22	1:126:A:ILE:HA	16	0.19
(2,488)	1:126:A:ILE:HG23	1:126:A:ILE:HA	20	0.19
(2,461)	1:48:A:THR:HG21	1:68:A:ARG:HG2	2	0.19
(2,461)	1:48:A:THR:HG22	1:68:A:ARG:HG2	6	0.19
(2,454)	1:141:A:LEU:HD13	1:77:A:LEU:HD13	12	0.19
(2,417)	1:87:A:VAL:HG23	1:132:A:HIS:HD2	1	0.19
(2,381)	1:89:A:VAL:HG13	1:81:A:LEU:HD11	11	0.19
(2,372)	1:89:A:VAL:HG12	1:81:A:LEU:HB2	2	0.19
(2,372)	1:89:A:VAL:HG11	1:81:A:LEU:HB2	12	0.19
(2,368)	1:82:A:GLU:HA	1:89:A:VAL:HG23	13	0.19
(2,362)	1:89:A:VAL:HG21	1:87:A:VAL:H	11	0.19
(2,351)	1:42:A:GLY:HA3	1:41:A:VAL:HG12	16	0.19
(2,351)	1:42:A:GLY:HA3	1:41:A:VAL:HG11	18	0.19
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	10	0.19
(2,248)	1:150:A:ILE:HG23	1:144:A:PHE:HD1	13	0.19
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG22	3	0.19
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG22	15	0.19
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE1	1	0.19
(2,230)	1:151:A:ASP:HB2	1:143:A:MET:HE2	8	0.19
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG21	13	0.19
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	7	0.19
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	14	0.19
(2,133)	1:67:A:VAL:HG13	1:66:A:THR:H	10	0.19
(2,133)	1:67:A:VAL:HG11	1:66:A:THR:H	18	0.19
(2,4945)	1:77:A:LEU:HD21	1:142:A:HIS:H	20	0.18
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	5	0.18
(2,4899)	1:124:A:GLN:HE22	1:121:A:GLY:HA2	2	0.18
(2,4899)	1:124:A:GLN:HE22	1:121:A:GLY:HA2	13	0.18
(2,4872)	1:113:A:ASN:H	1:116:A:GLU:HB3	8	0.18
(2,4853)	1:100:A:GLN:HG2	1:100:A:GLN:H	13	0.18
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	2	0.18
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	15	0.18
(2,4816)	1:81:A:LEU:HD11	1:81:A:LEU:H	1	0.18
(2,4784)	1:23:A:GLY:H	1:24:A:PRO:HG2	19	0.18
(2,4774)	1:11:A:LEU:H	1:10:A:ARG:HD2	11	0.18
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG2	8	0.18
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG2	13	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4760)	1:5:A:VAL:HG22	1:4:A:THR:H	13	0.18
(2,4749)	1:34:A:SER:H	1:33:A:VAL:HG23	17	0.18
(2,4731)	1:37:A:GLN:H	1:37:A:GLN:HG2	20	0.18
(2,4725)	1:50:A:GLU:H	1:36:A:PRO:HB3	13	0.18
(2,4715)	1:105:A:GLY:H	1:104:A:ARG:HG3	9	0.18
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	13	0.18
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	8	0.18
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	10	0.18
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD11	12	0.18
(2,4682)	1:81:A:LEU:HD23	1:137:A:ASN:H	2	0.18
(2,4682)	1:81:A:LEU:HD22	1:137:A:ASN:H	19	0.18
(2,4679)	1:19:A:ASN:HD22	1:18:A:LEU:HB3	5	0.18
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	10	0.18
(2,4665)	1:159:A:ILE:H	1:158:A:LYS:HE2	9	0.18
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	10	0.18
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	9	0.18
(2,4592)	1:20:A:ASP:HB2	1:21:A:ALA:H	18	0.18
(2,4592)	1:20:A:ASP:HB2	1:21:A:ALA:H	19	0.18
(2,4588)	1:35:A:ASN:H	1:36:A:PRO:HG3	8	0.18
(2,4576)	1:54:A:LYS:HD2	1:28:A:PHE:HE1	10	0.18
(2,4574)	1:88:A:VAL:HG22	1:90:A:PRO:HD2	4	0.18
(2,4574)	1:88:A:VAL:HG22	1:90:A:PRO:HD2	10	0.18
(2,4574)	1:88:A:VAL:HG21	1:90:A:PRO:HD2	20	0.18
(2,4573)	1:68:A:ARG:HD2	1:68:A:ARG:HB3	4	0.18
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	15	0.18
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	1	0.18
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	8	0.18
(2,4547)	1:148:A:GLU:HG3	1:67:A:VAL:HG12	18	0.18
(2,4546)	1:129:A:VAL:HG13	1:130:A:ALA:HA	5	0.18
(2,4546)	1:129:A:VAL:HG11	1:130:A:ALA:HA	11	0.18
(2,4536)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	10	0.18
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	9	0.18
(2,4484)	1:95:A:LYS:HG2	1:95:A:LYS:HE2	15	0.18
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD13	17	0.18
(2,4465)	1:61:A:LYS:HD3	1:62:A:LEU:HG	15	0.18
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD22	9	0.18
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD21	18	0.18
(2,4405)	1:8:A:THR:HA	1:8:A:THR:HG22	6	0.18
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD12	9	0.18
(2,4374)	1:43:A:ARG:HB2	1:43:A:ARG:HD2	9	0.18
(2,4359)	1:157:A:SER:HB3	1:158:A:LYS:HD2	14	0.18
(2,4350)	1:130:A:ALA:HB3	1:145:A:LEU:HD22	16	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4327)	1:33:A:VAL:HG23	1:122:A:LEU:H	13	0.18
(2,4326)	1:33:A:VAL:HG21	1:125:A:PHE:HD2	3	0.18
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	1	0.18
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	6	0.18
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	10	0.18
(2,4308)	1:99:A:ARG:HD3	1:99:A:ARG:HA	5	0.18
(2,4308)	1:99:A:ARG:HD3	1:99:A:ARG:HA	10	0.18
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG21	6	0.18
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG21	10	0.18
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG21	15	0.18
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	7	0.18
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	1	0.18
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	10	0.18
(2,4273)	1:16:A:GLN:HG3	1:15:A:PRO:HA	12	0.18
(2,4265)	1:68:A:ARG:HD2	1:68:A:ARG:H	3	0.18
(2,4249)	1:12:A:ILE:HD11	1:12:A:ILE:H	3	0.18
(2,4247)	1:12:A:ILE:HB	1:13:A:THR:HA	10	0.18
(2,4247)	1:12:A:ILE:HB	1:13:A:THR:HA	13	0.18
(2,4247)	1:12:A:ILE:HB	1:11:A:LEU:HA	20	0.18
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	10	0.18
(2,4243)	1:34:A:SER:HB3	1:32:A:ASP:HB3	18	0.18
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	1	0.18
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	13	0.18
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	20	0.18
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	13	0.18
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	14	0.18
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	4	0.18
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	9	0.18
(2,4194)	1:10:A:ARG:HA	1:10:A:ARG:H	19	0.18
(2,4170)	1:64:A:GLU:HG3	1:64:A:GLU:HB2	19	0.18
(2,4162)	1:134:A:LEU:HB3	1:134:A:LEU:HD11	9	0.18
(2,4162)	1:134:A:LEU:HB3	1:134:A:LEU:HD12	12	0.18
(2,4151)	1:57:A:LEU:HD22	1:131:A:GLY:HA3	16	0.18
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG2	2	0.18
(2,4141)	1:64:A:GLU:HG3	1:55:A:THR:H	3	0.18
(2,4138)	1:137:A:ASN:HB3	1:134:A:LEU:HB3	14	0.18
(2,4138)	1:137:A:ASN:HB3	1:134:A:LEU:HB3	17	0.18
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	12	0.18
(2,4112)	1:81:A:LEU:HD12	1:135:A:ALA:HB1	4	0.18
(2,4094)	1:115:A:ILE:HG22	1:119:A:LYS:H	10	0.18
(2,4082)	1:126:A:ILE:HD13	1:129:A:VAL:H	15	0.18
(2,4082)	1:126:A:ILE:HD11	1:129:A:VAL:H	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4052)	1:29:A:LEU:HD21	1:57:A:LEU:HG	13	0.18
(2,4050)	1:29:A:LEU:HD12	1:57:A:LEU:HG	9	0.18
(2,4040)	1:45:A:ARG:HD3	1:38:A:THR:HG22	5	0.18
(2,4018)	1:101:A:LEU:HD12	1:101:A:LEU:HB3	4	0.18
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	6	0.18
(2,3994)	1:101:A:LEU:HD12	1:101:A:LEU:HG	9	0.18
(2,3994)	1:101:A:LEU:HD11	1:101:A:LEU:HG	20	0.18
(2,3990)	1:26:A:SER:HB3	1:25:A:PRO:HB2	6	0.18
(2,3975)	1:3:A:GLU:HG2	1:3:A:GLU:HB2	6	0.18
(2,3975)	1:3:A:GLU:HG2	1:3:A:GLU:HB2	11	0.18
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	8	0.18
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	11	0.18
(2,3958)	1:109:A:ILE:HD11	1:107:A:ASP:H	18	0.18
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	9	0.18
(2,3908)	1:119:A:LYS:HD2	1:119:A:LYS:H	7	0.18
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	2	0.18
(2,3904)	1:119:A:LYS:HE3	1:119:A:LYS:H	13	0.18
(2,3894)	1:92:A:LEU:HD21	1:93:A:PRO:HG2	1	0.18
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	8	0.18
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	20	0.18
(2,3877)	1:123:A:GLU:HB3	1:127:A:ASN:HD22	1	0.18
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	5	0.18
(2,3849)	1:55:A:THR:HG22	1:29:A:LEU:HD12	8	0.18
(2,3795)	1:130:A:ALA:HB3	1:131:A:GLY:H	5	0.18
(2,3795)	1:130:A:ALA:HB1	1:131:A:GLY:H	9	0.18
(2,3759)	1:53:A:VAL:HG21	1:30:A:GLU:H	12	0.18
(2,3748)	1:0:A:GLY:HA2	1:1:A:THR:HG23	5	0.18
(2,3744)	1:87:A:VAL:HG21	1:82:A:GLU:HG3	1	0.18
(2,3744)	1:87:A:VAL:HG21	1:84:A:GLU:HB2	11	0.18
(2,3740)	1:87:A:VAL:HG23	1:86:A:LYS:H	18	0.18
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	11	0.18
(2,3728)	1:89:A:VAL:HG11	1:78:A:ARG:HG2	20	0.18
(2,3715)	1:90:A:PRO:HD3	1:128:A:LYS:HD3	18	0.18
(2,3702)	1:92:A:LEU:HD23	1:75:A:GLU:HG2	20	0.18
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG2	9	0.18
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG2	16	0.18
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	3	0.18
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	4	0.18
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	2	0.18
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	6	0.18
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	12	0.18
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	1	0.18
(2,3613)	1:32:A:ASP:HB3	1:123:A:GLU:HB2	18	0.18
(2,3582)	1:12:A:ILE:HG13	1:11:A:LEU:H	14	0.18
(2,3560)	1:122:A:LEU:HD13	1:121:A:GLY:H	4	0.18
(2,3530)	1:2:A:ALA:H	1:1:A:THR:HB	14	0.18
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	4	0.18
(2,3505)	1:39:A:VAL:HG13	1:37:A:GLN:HE22	7	0.18
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD12	14	0.18
(2,3408)	1:143:A:MET:H	1:144:A:PHE:HD2	11	0.18
(2,3378)	1:112:A:ASP:HB3	1:113:A:ASN:H	14	0.18
(2,3365)	1:112:A:ASP:H	1:113:A:ASN:HD21	3	0.18
(2,3358)	1:112:A:ASP:HB2	1:112:A:ASP:H	6	0.18
(2,3358)	1:112:A:ASP:HB2	1:112:A:ASP:H	14	0.18
(2,3358)	1:112:A:ASP:HB2	1:112:A:ASP:H	20	0.18
(2,3301)	1:87:A:VAL:HG21	1:81:A:LEU:H	5	0.18
(2,3289)	1:150:A:ILE:HD13	1:73:A:ASP:H	13	0.18
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD1	9	0.18
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD2	11	0.18
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	3	0.18
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	6	0.18
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG22	15	0.18
(2,3170)	1:38:A:THR:HG21	1:38:A:THR:H	2	0.18
(2,3170)	1:38:A:THR:HG23	1:38:A:THR:H	4	0.18
(2,3170)	1:38:A:THR:HG21	1:38:A:THR:H	9	0.18
(2,3170)	1:38:A:THR:HG21	1:38:A:THR:H	12	0.18
(2,3081)	1:22:A:TYR:H	1:22:A:TYR:HE1	4	0.18
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	5	0.18
(2,3068)	1:17:A:ASN:HB2	1:17:A:ASN:HD22	13	0.18
(2,3030)	1:12:A:ILE:HG12	1:12:A:ILE:H	2	0.18
(2,3012)	1:8:A:THR:H	1:7:A:ASP:HB2	6	0.18
(2,2983)	1:4:A:THR:H	1:3:A:GLU:HB2	1	0.18
(2,2983)	1:4:A:THR:H	1:3:A:GLU:HB2	19	0.18
(2,2860)	1:105:A:GLY:H	1:103:A:PHE:HD1	4	0.18
(2,2783)	1:41:A:VAL:H	1:45:A:ARG:HD3	11	0.18
(2,2754)	1:18:A:LEU:H	1:17:A:ASN:HD22	2	0.18
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	9	0.18
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	18	0.18
(2,2581)	1:98:A:LEU:HD22	1:99:A:ARG:H	14	0.18
(2,2571)	1:96:A:ALA:H	1:95:A:LYS:HB2	1	0.18
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD23	14	0.18
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD23	17	0.18
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	11	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	17	0.18
(2,2423)	1:21:A:ALA:H	1:22:A:TYR:HD1	3	0.18
(2,2404)	1:112:A:ASP:HB3	1:115:A:ILE:HD11	2	0.18
(2,2404)	1:112:A:ASP:HB3	1:115:A:ILE:HD13	16	0.18
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	2	0.18
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	16	0.18
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	17	0.18
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	19	0.18
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	20	0.18
(2,2373)	1:33:A:VAL:HG22	1:49:A:TYR:HE1	4	0.18
(2,2352)	1:55:A:THR:HG21	1:60:A:PHE:HZ	9	0.18
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	17	0.18
(2,2338)	1:29:A:LEU:HD23	1:130:A:ALA:H	14	0.18
(2,2321)	1:81:A:LEU:HD23	1:87:A:VAL:HB	8	0.18
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG21	18	0.18
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD12	14	0.18
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD13	18	0.18
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG11	9	0.18
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG22	15	0.18
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG21	16	0.18
(2,2095)	1:134:A:LEU:HD23	1:88:A:VAL:H	3	0.18
(2,2095)	1:134:A:LEU:HD21	1:88:A:VAL:H	4	0.18
(2,2045)	1:51:A:ILE:HG12	1:33:A:VAL:HA	10	0.18
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG22	9	0.18
(2,1973)	1:157:A:SER:HB2	1:158:A:LYS:HG2	1	0.18
(2,1951)	1:38:A:THR:HG21	1:110:A:PHE:HE2	16	0.18
(2,1929)	1:141:A:LEU:HD23	1:138:A:GLU:H	2	0.18
(2,1929)	1:141:A:LEU:HD21	1:138:A:GLU:H	3	0.18
(2,1929)	1:141:A:LEU:HD22	1:138:A:GLU:H	11	0.18
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG23	19	0.18
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	3	0.18
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	14	0.18
(2,1910)	1:122:A:LEU:HA	1:125:A:PHE:HE2	19	0.18
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	19	0.18
(2,1885)	1:22:A:TYR:HA	1:22:A:TYR:HD2	3	0.18
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	15	0.18
(2,1865)	1:98:A:LEU:HD13	1:94:A:GLY:HA3	5	0.18
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD11	10	0.18
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD13	14	0.18
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD12	15	0.18
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD12	17	0.18
(2,1784)	1:83:A:ARG:HG3	1:84:A:GLU:H	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	1	0.18
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	10	0.18
(2,1696)	1:115:A:ILE:HG21	1:36:A:PRO:HG2	4	0.18
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	20	0.18
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	11	0.18
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	15	0.18
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG23	9	0.18
(2,1612)	1:66:A:THR:HG21	1:50:A:GLU:HB3	18	0.18
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	13	0.18
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	14	0.18
(2,1583)	1:141:A:LEU:HD12	1:138:A:GLU:H	4	0.18
(2,1522)	1:57:A:LEU:HD13	1:60:A:PHE:HZ	10	0.18
(2,1500)	1:57:A:LEU:HD22	1:58:A:PRO:HD2	9	0.18
(2,1499)	1:57:A:LEU:HD23	1:58:A:PRO:HD3	6	0.18
(2,1406)	1:39:A:VAL:HG23	1:39:A:VAL:HA	19	0.18
(2,1398)	1:33:A:VAL:HG13	1:74:A:PHE:HD2	10	0.18
(2,1357)	1:51:A:ILE:HG21	1:34:A:SER:H	15	0.18
(2,1339)	1:59:A:ILE:HG22	1:58:A:PRO:HD3	6	0.18
(2,1339)	1:59:A:ILE:HG21	1:58:A:PRO:HD3	13	0.18
(2,1339)	1:59:A:ILE:HG22	1:58:A:PRO:HD3	17	0.18
(2,1337)	1:67:A:VAL:HG22	1:52:A:ARG:H	18	0.18
(2,1326)	1:12:A:ILE:HG22	1:13:A:THR:HA	5	0.18
(2,1324)	1:12:A:ILE:HG22	1:12:A:ILE:HB	2	0.18
(2,1324)	1:12:A:ILE:HG22	1:12:A:ILE:HB	20	0.18
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG22	3	0.18
(2,1319)	1:149:A:ILE:HG23	1:149:A:ILE:HB	7	0.18
(2,1319)	1:149:A:ILE:HG23	1:149:A:ILE:HB	12	0.18
(2,1319)	1:149:A:ILE:HG23	1:149:A:ILE:HB	15	0.18
(2,1319)	1:149:A:ILE:HG22	1:149:A:ILE:HB	19	0.18
(2,1310)	1:149:A:ILE:HG21	1:148:A:GLU:H	7	0.18
(2,1276)	1:115:A:ILE:HD11	1:114:A:PHE:HD2	20	0.18
(2,1267)	1:152:A:LYS:HB2	1:150:A:ILE:HG23	1	0.18
(2,1263)	1:152:A:LYS:HB3	1:76:A:TRP:HE1	20	0.18
(2,1212)	1:29:A:LEU:HD12	1:57:A:LEU:H	7	0.18
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG21	1	0.18
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG21	14	0.18
(2,1137)	1:59:A:ILE:HD13	1:59:A:ILE:HB	1	0.18
(2,1063)	1:159:A:ILE:HD13	1:142:A:HIS:HB3	11	0.18
(2,1056)	1:159:A:ILE:HD13	1:139:A:ARG:H	18	0.18
(2,1055)	1:151:A:ASP:HB3	1:150:A:ILE:HA	19	0.18
(2,1032)	1:148:A:GLU:HG3	1:67:A:VAL:HG12	13	0.18
(2,1032)	1:148:A:GLU:HG3	1:67:A:VAL:HG12	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,996)	1:101:A:LEU:HD22	1:101:A:LEU:HG	5	0.18
(2,996)	1:101:A:LEU:HD22	1:101:A:LEU:HG	6	0.18
(2,996)	1:101:A:LEU:HD21	1:101:A:LEU:HG	8	0.18
(2,996)	1:101:A:LEU:HD21	1:101:A:LEU:HG	11	0.18
(2,996)	1:101:A:LEU:HD23	1:101:A:LEU:HG	17	0.18
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	1	0.18
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	10	0.18
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	3	0.18
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	14	0.18
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	18	0.18
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	20	0.18
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	16	0.18
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	4	0.18
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	9	0.18
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	16	0.18
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	18	0.18
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	19	0.18
(2,954)	1:148:A:GLU:HB2	1:149:A:ILE:H	20	0.18
(2,896)	1:113:A:ASN:HB2	1:117:A:GLU:HG2	14	0.18
(2,863)	1:115:A:ILE:HD12	1:114:A:PHE:HB3	5	0.18
(2,673)	1:55:A:THR:HG22	1:62:A:LEU:H	13	0.18
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	2	0.18
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	3	0.18
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	19	0.18
(2,623)	1:129:A:VAL:HG23	1:130:A:ALA:HB2	4	0.18
(2,619)	1:129:A:VAL:HG11	1:129:A:VAL:HG22	3	0.18
(2,619)	1:129:A:VAL:HG13	1:129:A:VAL:HG21	10	0.18
(2,598)	1:129:A:VAL:HG12	1:125:A:PHE:HD1	5	0.18
(2,540)	1:143:A:MET:HE3	1:76:A:TRP:HZ2	5	0.18
(2,538)	1:143:A:MET:HE3	1:151:A:ASP:H	12	0.18
(2,531)	1:143:A:MET:HE3	1:154:A:TYR:HB2	15	0.18
(2,530)	1:143:A:MET:HE3	1:150:A:ILE:HA	3	0.18
(2,530)	1:143:A:MET:HE3	1:150:A:ILE:HA	14	0.18
(2,530)	1:143:A:MET:HE2	1:150:A:ILE:HA	18	0.18
(2,530)	1:143:A:MET:HE2	1:150:A:ILE:HA	19	0.18
(2,488)	1:126:A:ILE:HG22	1:126:A:ILE:HA	8	0.18
(2,381)	1:89:A:VAL:HG11	1:81:A:LEU:HD12	16	0.18
(2,381)	1:89:A:VAL:HG13	1:81:A:LEU:HD13	18	0.18
(2,362)	1:89:A:VAL:HG21	1:87:A:VAL:H	3	0.18
(2,351)	1:42:A:GLY:HA3	1:41:A:VAL:HG13	19	0.18
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	18	0.18
(2,311)	1:92:A:LEU:HD12	1:92:A:LEU:H	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,241)	1:150:A:ILE:HG22	1:151:A:ASP:H	3	0.18
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG23	11	0.18
(2,150)	1:66:A:THR:HG22	1:53:A:VAL:H	19	0.18
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG22	14	0.18
(2,60)	1:81:A:LEU:HA	1:85:A:SER:HB2	19	0.18
(2,14)	1:32:A:ASP:HB2	1:32:A:ASP:H	14	0.18
(1,43)	1:146:A:GLN:H	1:142:A:HIS:O	14	0.18
(2,4983)	1:80:A:GLU:H	1:125:A:PHE:HZ	7	0.17
(2,4983)	1:80:A:GLU:H	1:125:A:PHE:HZ	13	0.17
(2,4968)	1:152:A:LYS:HD2	1:76:A:TRP:HE1	15	0.17
(2,4955)	1:100:A:GLN:HE22	1:101:A:LEU:HD12	7	0.17
(2,4945)	1:77:A:LEU:HD22	1:142:A:HIS:H	12	0.17
(2,4942)	1:140:A:CYS:H	1:139:A:ARG:HG2	16	0.17
(2,4909)	1:127:A:ASN:H	1:124:A:GLN:HB3	10	0.17
(2,4899)	1:124:A:GLN:HE22	1:121:A:GLY:HA2	14	0.17
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	3	0.17
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	10	0.17
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	13	0.17
(2,4885)	1:120:A:GLN:HE21	1:116:A:GLU:HB2	19	0.17
(2,4858)	1:159:A:ILE:H	1:138:A:GLU:HA	13	0.17
(2,4844)	1:73:A:ASP:H	1:49:A:TYR:HD1	12	0.17
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD12	18	0.17
(2,4838)	1:65:A:SER:H	1:55:A:THR:HG22	17	0.17
(2,4830)	1:58:A:PRO:HB3	1:59:A:ILE:H	4	0.17
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	2	0.17
(2,4771)	1:10:A:ARG:H	1:9:A:ARG:HB3	9	0.17
(2,4762)	1:26:A:SER:HB3	1:26:A:SER:H	6	0.17
(2,4741)	1:5:A:VAL:HG12	1:5:A:VAL:H	2	0.17
(2,4719)	1:151:A:ASP:HB2	1:152:A:LYS:H	3	0.17
(2,4719)	1:151:A:ASP:HB2	1:152:A:LYS:H	15	0.17
(2,4719)	1:151:A:ASP:HB2	1:152:A:LYS:H	19	0.17
(2,4714)	1:101:A:LEU:HD11	1:101:A:LEU:H	18	0.17
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	18	0.17
(2,4682)	1:81:A:LEU:HD21	1:137:A:ASN:H	1	0.17
(2,4682)	1:81:A:LEU:HD23	1:137:A:ASN:H	7	0.17
(2,4682)	1:81:A:LEU:HD23	1:137:A:ASN:H	11	0.17
(2,4681)	1:141:A:LEU:HD22	1:137:A:ASN:H	11	0.17
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	14	0.17
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	15	0.17
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	7	0.17
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	8	0.17
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	20	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4665)	1:159:A:ILE:H	1:158:A:LYS:HE2	11	0.17
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	2	0.17
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	7	0.17
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	8	0.17
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	19	0.17
(2,4659)	1:0:A:GLY:H	1:-1:A:VAL:HG13	20	0.17
(2,4658)	1:44:A:GLY:H	1:43:A:ARG:HG2	6	0.17
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	7	0.17
(2,4618)	1:85:A:SER:H	1:86:A:LYS:HG3	9	0.17
(2,4618)	1:85:A:SER:H	1:86:A:LYS:HG3	17	0.17
(2,4576)	1:54:A:LYS:HD2	1:28:A:PHE:HE1	7	0.17
(2,4575)	1:101:A:LEU:HD11	1:98:A:LEU:HA	3	0.17
(2,4574)	1:88:A:VAL:HG21	1:90:A:PRO:HD2	14	0.17
(2,4552)	1:122:A:LEU:HB3	1:121:A:GLY:HA3	12	0.17
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	2	0.17
(2,4546)	1:129:A:VAL:HG12	1:130:A:ALA:HA	13	0.17
(2,4497)	1:59:A:ILE:HD12	1:137:A:ASN:HB2	17	0.17
(2,4484)	1:95:A:LYS:HG2	1:95:A:LYS:HE2	12	0.17
(2,4473)	1:77:A:LEU:HD11	1:144:A:PHE:HB2	18	0.17
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	15	0.17
(2,4432)	1:30:A:GLU:HB3	1:28:A:PHE:HE1	19	0.17
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD21	1	0.17
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD22	3	0.17
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD21	5	0.17
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD23	6	0.17
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD22	8	0.17
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD23	15	0.17
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD22	16	0.17
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD23	19	0.17
(2,4378)	1:58:A:PRO:HA	1:22:A:TYR:HD2	2	0.17
(2,4333)	1:141:A:LEU:HG	1:77:A:LEU:HD22	17	0.17
(2,4326)	1:33:A:VAL:HG21	1:125:A:PHE:HD2	2	0.17
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	15	0.17
(2,4308)	1:99:A:ARG:HD3	1:99:A:ARG:HA	6	0.17
(2,4308)	1:99:A:ARG:HA	1:99:A:ARG:HD2	14	0.17
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG21	11	0.17
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG23	14	0.17
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG21	19	0.17
(2,4287)	1:86:A:LYS:HE3	1:134:A:LEU:HD13	14	0.17
(2,4281)	1:85:A:SER:HB2	1:84:A:GLU:HA	14	0.17
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	8	0.17
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	18	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	2	0.17
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	20	0.17
(2,4269)	1:68:A:ARG:HG2	1:68:A:ARG:HD2	8	0.17
(2,4246)	1:20:A:ASP:HB3	1:20:A:ASP:HA	16	0.17
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	17	0.17
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	18	0.17
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	8	0.17
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	6	0.17
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	19	0.17
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	17	0.17
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	20	0.17
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	6	0.17
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	7	0.17
(2,4194)	1:10:A:ARG:HA	1:10:A:ARG:H	15	0.17
(2,4188)	1:77:A:LEU:HD23	1:141:A:LEU:HB3	16	0.17
(2,4183)	1:129:A:VAL:HG12	1:141:A:LEU:HD13	6	0.17
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	8	0.17
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	11	0.17
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	15	0.17
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	8	0.17
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	19	0.17
(2,4115)	1:135:A:ALA:HB3	1:136:A:GLN:HG3	16	0.17
(2,4110)	1:96:A:ALA:HB3	1:97:A:PHE:HB3	4	0.17
(2,4103)	1:51:A:ILE:HG21	1:60:A:PHE:HE2	8	0.17
(2,4100)	1:59:A:ILE:HG21	1:141:A:LEU:HB2	8	0.17
(2,4100)	1:59:A:ILE:HG21	1:141:A:LEU:HB2	14	0.17
(2,4060)	1:160:A:ARG:HA	1:161:A:HIS:HD2	1	0.17
(2,4052)	1:29:A:LEU:HD22	1:57:A:LEU:HG	4	0.17
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD11	6	0.17
(2,3994)	1:101:A:LEU:HD12	1:101:A:LEU:HG	1	0.17
(2,3994)	1:101:A:LEU:HD13	1:101:A:LEU:HG	2	0.17
(2,3994)	1:101:A:LEU:HD11	1:101:A:LEU:HG	3	0.17
(2,3994)	1:101:A:LEU:HD11	1:101:A:LEU:HG	6	0.17
(2,3994)	1:101:A:LEU:HD13	1:101:A:LEU:HG	11	0.17
(2,3994)	1:101:A:LEU:HD12	1:101:A:LEU:HG	12	0.17
(2,3994)	1:101:A:LEU:HD11	1:101:A:LEU:HG	19	0.17
(2,3987)	1:26:A:SER:HB2	1:27:A:ASN:HB3	9	0.17
(2,3987)	1:26:A:SER:HB3	1:27:A:ASN:HB3	17	0.17
(2,3985)	1:104:A:ARG:HG3	1:104:A:ARG:H	5	0.17
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	1	0.17
(2,3975)	1:3:A:GLU:HG2	1:3:A:GLU:HB2	10	0.17
(2,3975)	1:3:A:GLU:HG2	1:3:A:GLU:HB2	13	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3975)	1:3:A:GLU:HG2	1:3:A:GLU:HB2	20	0.17
(2,3963)	1:109:A:ILE:HD12	1:107:A:ASP:HB3	15	0.17
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	6	0.17
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	16	0.17
(2,3908)	1:119:A:LYS:HD2	1:119:A:LYS:H	13	0.17
(2,3894)	1:92:A:LEU:HD21	1:93:A:PRO:HG2	3	0.17
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	3	0.17
(2,3877)	1:123:A:GLU:HB3	1:127:A:ASN:HD22	14	0.17
(2,3849)	1:55:A:THR:HG22	1:29:A:LEU:HD12	11	0.17
(2,3833)	1:127:A:ASN:HA	1:29:A:LEU:HD22	1	0.17
(2,3830)	1:129:A:VAL:HG13	1:128:A:LYS:HD2	6	0.17
(2,3790)	1:143:A:MET:HA	1:147:A:ASP:HB2	1	0.17
(2,3775)	1:126:A:ILE:HG23	1:31:A:ILE:HG23	19	0.17
(2,3759)	1:53:A:VAL:HG21	1:30:A:GLU:H	5	0.17
(2,3755)	1:48:A:THR:HG21	1:68:A:ARG:HD3	8	0.17
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	2	0.17
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	10	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	1	0.17
(2,3698)	1:17:A:ASN:HB3	1:17:A:ASN:HB2	2	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	3	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	4	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	7	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	9	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	10	0.17
(2,3698)	1:17:A:ASN:HB3	1:17:A:ASN:HB2	11	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	12	0.17
(2,3698)	1:17:A:ASN:HB3	1:17:A:ASN:HB2	13	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	16	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	17	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	18	0.17
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	20	0.17
(2,3688)	1:150:A:ILE:HD13	1:77:A:LEU:H	9	0.17
(2,3670)	1:58:A:PRO:HA	1:58:A:PRO:HD2	3	0.17
(2,3670)	1:58:A:PRO:HA	1:58:A:PRO:HD2	10	0.17
(2,3670)	1:58:A:PRO:HA	1:58:A:PRO:HD2	17	0.17
(2,3670)	1:58:A:PRO:HA	1:58:A:PRO:HD2	18	0.17
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD11	10	0.17
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	17	0.17
(2,3632)	1:82:A:GLU:HA	1:84:A:GLU:H	3	0.17
(2,3630)	1:3:A:GLU:HA	1:3:A:GLU:HG3	9	0.17
(2,3622)	1:108:A:GLY:HA2	1:109:A:ILE:HG12	17	0.17
(2,3567)	1:68:A:ARG:H	1:149:A:ILE:HG21	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3537)	1:100:A:GLN:HE21	1:100:A:GLN:HB2	13	0.17
(2,3523)	1:162:A:ALA:HB2	1:162:A:ALA:H	18	0.17
(2,3520)	1:161:A:HIS:HB3	1:162:A:ALA:H	15	0.17
(2,3466)	1:136:A:GLN:HE22	1:136:A:GLN:H	3	0.17
(2,3408)	1:143:A:MET:H	1:144:A:PHE:HD2	14	0.17
(2,3358)	1:112:A:ASP:HB2	1:112:A:ASP:H	8	0.17
(2,3358)	1:112:A:ASP:HB2	1:112:A:ASP:H	11	0.17
(2,3358)	1:112:A:ASP:HB2	1:112:A:ASP:H	13	0.17
(2,3358)	1:112:A:ASP:HB2	1:112:A:ASP:H	17	0.17
(2,3301)	1:87:A:VAL:HG23	1:81:A:LEU:H	19	0.17
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	17	0.17
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	18	0.17
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	8	0.17
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	15	0.17
(2,3235)	1:54:A:LYS:H	1:31:A:ILE:HD12	8	0.17
(2,3170)	1:38:A:THR:HG22	1:38:A:THR:H	8	0.17
(2,3170)	1:38:A:THR:HG22	1:38:A:THR:H	11	0.17
(2,3170)	1:38:A:THR:HG23	1:38:A:THR:H	13	0.17
(2,3170)	1:38:A:THR:HG21	1:38:A:THR:H	18	0.17
(2,3120)	1:27:A:ASN:HD21	1:57:A:LEU:HD22	5	0.17
(2,3090)	1:23:A:GLY:H	1:21:A:ALA:HB3	1	0.17
(2,3090)	1:23:A:GLY:H	1:21:A:ALA:HB2	2	0.17
(2,3090)	1:23:A:GLY:H	1:21:A:ALA:HB2	5	0.17
(2,3042)	1:14:A:LYS:H	1:14:A:LYS:HD3	17	0.17
(2,3027)	1:10:A:ARG:HB2	1:11:A:LEU:H	1	0.17
(2,3023)	1:10:A:ARG:H	1:11:A:LEU:HD21	15	0.17
(2,3012)	1:8:A:THR:H	1:7:A:ASP:HB2	4	0.17
(2,3000)	1:38:A:THR:HG21	1:39:A:VAL:H	20	0.17
(2,2996)	1:6:A:ALA:HB2	1:6:A:ALA:H	15	0.17
(2,2979)	1:2:A:ALA:HB2	1:3:A:GLU:H	4	0.17
(2,2979)	1:2:A:ALA:HB1	1:3:A:GLU:H	13	0.17
(2,2860)	1:105:A:GLY:H	1:103:A:PHE:HD1	5	0.17
(2,2754)	1:18:A:LEU:H	1:17:A:ASN:HD22	3	0.17
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD1	11	0.17
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG23	12	0.17
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	16	0.17
(2,2444)	1:67:A:VAL:HG13	1:68:A:ARG:H	4	0.17
(2,2405)	1:109:A:ILE:HB	1:115:A:ILE:HA	19	0.17
(2,2404)	1:112:A:ASP:HB3	1:115:A:ILE:HD13	9	0.17
(2,2404)	1:112:A:ASP:HB3	1:115:A:ILE:HD12	10	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	1	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	5	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	6	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	7	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	8	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	9	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	10	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	11	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	12	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	13	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	14	0.17
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	18	0.17
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	5	0.17
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	7	0.17
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	8	0.17
(2,2373)	1:33:A:VAL:HG22	1:49:A:TYR:HE1	2	0.17
(2,2358)	1:85:A:SER:HB2	1:81:A:LEU:HD22	11	0.17
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD12	10	0.17
(2,2232)	1:89:A:VAL:HG12	1:125:A:PHE:HD1	4	0.17
(2,2231)	1:81:A:LEU:HD12	1:89:A:VAL:HG22	13	0.17
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG22	2	0.17
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG22	10	0.17
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG23	14	0.17
(2,2142)	1:31:A:ILE:HG21	1:33:A:VAL:HG12	8	0.17
(2,2131)	1:29:A:LEU:HD22	1:136:A:GLN:HE21	17	0.17
(2,2045)	1:51:A:ILE:HG12	1:33:A:VAL:HA	17	0.17
(2,2011)	1:134:A:LEU:HD13	1:88:A:VAL:H	10	0.17
(2,2011)	1:134:A:LEU:HD13	1:88:A:VAL:H	20	0.17
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	7	0.17
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	16	0.17
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	20	0.17
(2,1929)	1:141:A:LEU:HD23	1:138:A:GLU:H	14	0.17
(2,1929)	1:141:A:LEU:HD22	1:138:A:GLU:H	18	0.17
(2,1922)	1:33:A:VAL:HG22	1:33:A:VAL:HA	20	0.17
(2,1919)	1:33:A:VAL:HG22	1:49:A:TYR:HB2	5	0.17
(2,1915)	1:134:A:LEU:HD21	1:86:A:LYS:HB3	5	0.17
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	7	0.17
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	3	0.17
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD11	4	0.17
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD11	20	0.17
(2,1800)	1:84:A:GLU:HG3	1:84:A:GLU:H	4	0.17
(2,1758)	1:75:A:GLU:HB3	1:92:A:LEU:HD22	16	0.17
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1696)	1:115:A:ILE:HG22	1:36:A:PRO:HG2	5	0.17
(2,1692)	1:34:A:SER:HB3	1:119:A:LYS:HD3	9	0.17
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG22	7	0.17
(2,1671)	1:31:A:ILE:HG22	1:127:A:ASN:HD21	13	0.17
(2,1634)	1:156:A:PRO:HA	1:154:A:TYR:HE2	7	0.17
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	4	0.17
(2,1631)	1:158:A:LYS:HG3	1:137:A:ASN:HD21	19	0.17
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	5	0.17
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	6	0.17
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	7	0.17
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	10	0.17
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	20	0.17
(2,1580)	1:83:A:ARG:HG3	1:83:A:ARG:HA	3	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	1	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	2	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	3	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	4	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	5	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	6	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	7	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	8	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	9	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	10	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	11	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	12	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	13	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	14	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	15	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	16	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	17	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	18	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	19	0.17
(2,1563)	1:140:A:CYS:HB3	1:140:A:CYS:HB2	20	0.17
(2,1499)	1:57:A:LEU:HD22	1:58:A:PRO:HD3	17	0.17
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	3	0.17
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	10	0.17
(2,1470)	1:137:A:ASN:HB2	1:137:A:ASN:HD22	16	0.17
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	12	0.17
(2,1430)	1:149:A:ILE:HB	1:148:A:GLU:HB2	6	0.17
(2,1406)	1:39:A:VAL:HG23	1:39:A:VAL:HA	12	0.17
(2,1406)	1:39:A:VAL:HG22	1:39:A:VAL:HA	16	0.17
(2,1406)	1:39:A:VAL:HG21	1:39:A:VAL:HA	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1406)	1:39:A:VAL:HG23	1:39:A:VAL:HA	18	0.17
(2,1386)	1:135:A:ALA:HB1	1:130:A:ALA:H	3	0.17
(2,1351)	1:51:A:ILE:HG23	1:66:A:THR:HA	13	0.17
(2,1339)	1:59:A:ILE:HG22	1:58:A:PRO:HD3	20	0.17
(2,1328)	1:115:A:ILE:HG23	1:114:A:PHE:HE2	7	0.17
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG21	5	0.17
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG22	8	0.17
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG23	13	0.17
(2,1319)	1:149:A:ILE:HG22	1:149:A:ILE:HB	10	0.17
(2,1310)	1:149:A:ILE:HG21	1:148:A:GLU:H	20	0.17
(2,1294)	1:51:A:ILE:HD12	1:67:A:VAL:HG23	13	0.17
(2,1267)	1:152:A:LYS:HB2	1:150:A:ILE:HG22	7	0.17
(2,1267)	1:152:A:LYS:HB2	1:150:A:ILE:HG23	12	0.17
(2,1212)	1:29:A:LEU:HD13	1:57:A:LEU:H	12	0.17
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG22	8	0.17
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG21	14	0.17
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	5	0.17
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	14	0.17
(2,1128)	1:152:A:LYS:HE2	1:152:A:LYS:H	6	0.17
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	1	0.17
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	18	0.17
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	9	0.17
(2,997)	1:101:A:LEU:HD21	1:101:A:LEU:HB2	13	0.17
(2,996)	1:101:A:LEU:HD23	1:101:A:LEU:HG	2	0.17
(2,996)	1:101:A:LEU:HD21	1:101:A:LEU:HG	10	0.17
(2,996)	1:101:A:LEU:HD22	1:101:A:LEU:HG	12	0.17
(2,996)	1:101:A:LEU:HD22	1:101:A:LEU:HG	20	0.17
(2,993)	1:102:A:PRO:HD2	1:101:A:LEU:HD23	9	0.17
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	20	0.17
(2,982)	1:12:A:ILE:HA	1:12:A:ILE:HG13	9	0.17
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	2	0.17
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	18	0.17
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	1	0.17
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	2	0.17
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	6	0.17
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	7	0.17
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	8	0.17
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	11	0.17
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	12	0.17
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	15	0.17
(2,954)	1:148:A:GLU:HB2	1:149:A:ILE:H	10	0.17
(2,681)	1:159:A:ILE:HG22	1:159:A:ILE:HB	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,680)	1:55:A:THR:HG21	1:63:A:LYS:HB3	6	0.17
(2,676)	1:159:A:ILE:HA	1:159:A:ILE:HG22	9	0.17
(2,673)	1:55:A:THR:HG22	1:62:A:LEU:H	1	0.17
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	8	0.17
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	10	0.17
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	4	0.17
(2,619)	1:129:A:VAL:HG13	1:129:A:VAL:HG22	15	0.17
(2,619)	1:129:A:VAL:HG13	1:129:A:VAL:HG23	16	0.17
(2,549)	1:143:A:MET:HE3	1:150:A:ILE:HG12	14	0.17
(2,542)	1:143:A:MET:HE3	1:154:A:TYR:HE1	5	0.17
(2,542)	1:143:A:MET:HE1	1:154:A:TYR:HE1	12	0.17
(2,541)	1:143:A:MET:HE3	1:144:A:PHE:HD1	13	0.17
(2,540)	1:143:A:MET:HE2	1:76:A:TRP:HZ2	15	0.17
(2,539)	1:143:A:MET:HE3	1:154:A:TYR:H	2	0.17
(2,531)	1:143:A:MET:HE2	1:154:A:TYR:HB2	6	0.17
(2,531)	1:143:A:MET:HE2	1:154:A:TYR:HB2	12	0.17
(2,530)	1:143:A:MET:HE3	1:150:A:ILE:HA	13	0.17
(2,516)	1:122:A:LEU:HD13	1:92:A:LEU:HA	7	0.17
(2,466)	1:47:A:THR:HG23	1:49:A:TYR:HE2	12	0.17
(2,465)	1:47:A:THR:HG23	1:114:A:PHE:HE2	19	0.17
(2,454)	1:141:A:LEU:HD11	1:77:A:LEU:HD11	18	0.17
(2,442)	1:105:A:GLY:HA3	1:104:A:ARG:HB2	4	0.17
(2,428)	1:13:A:THR:HG22	1:12:A:ILE:H	12	0.17
(2,375)	1:89:A:VAL:HG23	1:78:A:ARG:HG3	20	0.17
(2,372)	1:89:A:VAL:HG12	1:81:A:LEU:HB2	1	0.17
(2,351)	1:42:A:GLY:HA3	1:41:A:VAL:HG11	2	0.17
(2,351)	1:42:A:GLY:HA3	1:41:A:VAL:HG11	13	0.17
(2,311)	1:92:A:LEU:HD11	1:92:A:LEU:H	6	0.17
(2,310)	1:92:A:LEU:HD23	1:92:A:LEU:H	3	0.17
(2,310)	1:92:A:LEU:HD23	1:92:A:LEU:H	16	0.17
(2,291)	1:92:A:LEU:HD23	1:93:A:PRO:HD3	17	0.17
(2,272)	1:22:A:TYR:HB2	1:28:A:PHE:HD2	5	0.17
(2,257)	1:150:A:ILE:HD13	1:152:A:LYS:HE2	19	0.17
(2,241)	1:150:A:ILE:HG23	1:151:A:ASP:H	2	0.17
(2,166)	1:61:A:LYS:HA	1:61:A:LYS:HG3	10	0.17
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	12	0.17
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG21	11	0.17
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG22	17	0.17
(2,46)	1:83:A:ARG:HB3	1:83:A:ARG:HD3	1	0.17
(2,8)	1:131:A:GLY:HA3	1:136:A:GLN:HE21	10	0.17
(2,4983)	1:80:A:GLU:H	1:125:A:PHE:HZ	8	0.16
(2,4983)	1:80:A:GLU:H	1:125:A:PHE:HZ	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4983)	1:80:A:GLU:H	1:125:A:PHE:HZ	18	0.16
(2,4967)	1:76:A:TRP:HE1	1:76:A:TRP:HA	1	0.16
(2,4967)	1:76:A:TRP:HE1	1:76:A:TRP:HA	17	0.16
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	3	0.16
(2,4945)	1:77:A:LEU:HD21	1:142:A:HIS:H	3	0.16
(2,4942)	1:140:A:CYS:H	1:139:A:ARG:HG2	2	0.16
(2,4928)	1:137:A:ASN:HD21	1:160:A:ARG:HB2	8	0.16
(2,4905)	1:126:A:ILE:H	1:51:A:ILE:HG12	16	0.16
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	3	0.16
(2,4900)	1:124:A:GLN:HE21	1:128:A:LYS:HE2	4	0.16
(2,4864)	1:107:A:ASP:H	1:108:A:GLY:HA2	9	0.16
(2,4862)	1:158:A:LYS:H	1:139:A:ARG:HB2	19	0.16
(2,4844)	1:73:A:ASP:H	1:49:A:TYR:HD2	4	0.16
(2,4844)	1:73:A:ASP:H	1:49:A:TYR:HD2	11	0.16
(2,4831)	1:64:A:GLU:HG2	1:64:A:GLU:H	1	0.16
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	2	0.16
(2,4821)	1:51:A:ILE:H	1:68:A:ARG:HG2	18	0.16
(2,4816)	1:81:A:LEU:HD23	1:81:A:LEU:H	4	0.16
(2,4777)	1:11:A:LEU:HD13	1:12:A:ILE:H	3	0.16
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	18	0.16
(2,4762)	1:26:A:SER:HB3	1:26:A:SER:H	4	0.16
(2,4755)	1:0:A:GLY:HA3	1:1:A:THR:H	15	0.16
(2,4741)	1:5:A:VAL:HG22	1:5:A:VAL:H	7	0.16
(2,4741)	1:5:A:VAL:HG22	1:5:A:VAL:H	16	0.16
(2,4736)	1:135:A:ALA:H	1:138:A:GLU:HB2	13	0.16
(2,4719)	1:151:A:ASP:HB2	1:152:A:LYS:H	18	0.16
(2,4706)	1:46:A:PHE:H	1:38:A:THR:HG22	4	0.16
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	10	0.16
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	20	0.16
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	2	0.16
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	13	0.16
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD13	1	0.16
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD11	3	0.16
(2,4682)	1:81:A:LEU:HD22	1:137:A:ASN:H	3	0.16
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	17	0.16
(2,4665)	1:159:A:ILE:H	1:158:A:LYS:HE3	10	0.16
(2,4659)	1:0:A:GLY:H	1:-1:A:VAL:HG13	16	0.16
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	4	0.16
(2,4629)	1:99:A:ARG:H	1:100:A:GLN:HG2	19	0.16
(2,4618)	1:85:A:SER:H	1:86:A:LYS:HG3	4	0.16
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD23	8	0.16
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD23	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4590)	1:36:A:PRO:HG2	1:35:A:ASN:H	8	0.16
(2,4576)	1:54:A:LYS:HD2	1:28:A:PHE:HE1	6	0.16
(2,4574)	1:88:A:VAL:HG22	1:90:A:PRO:HD2	15	0.16
(2,4573)	1:68:A:ARG:HD2	1:68:A:ARG:HB3	3	0.16
(2,4559)	1:66:A:THR:HB	1:52:A:ARG:HB2	10	0.16
(2,4546)	1:129:A:VAL:HG11	1:130:A:ALA:HA	8	0.16
(2,4546)	1:129:A:VAL:HG12	1:130:A:ALA:HA	14	0.16
(2,4546)	1:129:A:VAL:HG11	1:130:A:ALA:HA	20	0.16
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	20	0.16
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	14	0.16
(2,4479)	1:89:A:VAL:HB	1:81:A:LEU:HD13	7	0.16
(2,4462)	1:62:A:LEU:HD13	1:61:A:LYS:HA	5	0.16
(2,4423)	1:33:A:VAL:HG22	1:122:A:LEU:HG	11	0.16
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD22	12	0.16
(2,4371)	1:62:A:LEU:HB3	1:62:A:LEU:HD22	6	0.16
(2,4367)	1:62:A:LEU:HD22	1:61:A:LYS:H	15	0.16
(2,4326)	1:33:A:VAL:HG22	1:125:A:PHE:HD2	15	0.16
(2,4308)	1:99:A:ARG:HD3	1:99:A:ARG:HA	19	0.16
(2,4273)	1:16:A:GLN:HG3	1:15:A:PRO:HA	4	0.16
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	6	0.16
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	19	0.16
(2,4269)	1:52:A:ARG:HB2	1:52:A:ARG:HD3	20	0.16
(2,4268)	1:52:A:ARG:HB3	1:52:A:ARG:HD3	20	0.16
(2,4264)	1:52:A:ARG:HD3	1:53:A:VAL:H	14	0.16
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	17	0.16
(2,4246)	1:20:A:ASP:HB3	1:20:A:ASP:HA	14	0.16
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	2	0.16
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	16	0.16
(2,4182)	1:141:A:LEU:HD11	1:143:A:MET:HG2	7	0.16
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	10	0.16
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	1	0.16
(2,4162)	1:134:A:LEU:HB3	1:134:A:LEU:HD12	3	0.16
(2,4162)	1:134:A:LEU:HB3	1:134:A:LEU:HD12	8	0.16
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG2	8	0.16
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG3	17	0.16
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	15	0.16
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	16	0.16
(2,4129)	1:18:A:LEU:HA	1:18:A:LEU:HB3	17	0.16
(2,4112)	1:81:A:LEU:HD12	1:135:A:ALA:HB2	7	0.16
(2,4100)	1:59:A:ILE:HG23	1:141:A:LEU:HB2	16	0.16
(2,4098)	1:59:A:ILE:HG21	1:60:A:PHE:HB3	4	0.16
(2,4094)	1:115:A:ILE:HG21	1:119:A:LYS:H	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4094)	1:115:A:ILE:HG22	1:119:A:LYS:H	12	0.16
(2,4090)	1:31:A:ILE:HD13	1:31:A:ILE:HG13	20	0.16
(2,4082)	1:126:A:ILE:HD12	1:129:A:VAL:H	10	0.16
(2,4079)	1:152:A:LYS:HB3	1:152:A:LYS:HD3	15	0.16
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD12	3	0.16
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD11	11	0.16
(2,4044)	1:45:A:ARG:HG2	1:46:A:PHE:HD1	13	0.16
(2,4037)	1:122:A:LEU:HD11	1:33:A:VAL:HG11	20	0.16
(2,4018)	1:11:A:LEU:HB2	1:11:A:LEU:HD22	18	0.16
(2,3994)	1:101:A:LEU:HD13	1:101:A:LEU:HG	4	0.16
(2,3994)	1:101:A:LEU:HD12	1:101:A:LEU:HG	5	0.16
(2,3994)	1:101:A:LEU:HD12	1:101:A:LEU:HG	10	0.16
(2,3994)	1:101:A:LEU:HD11	1:101:A:LEU:HG	14	0.16
(2,3994)	1:101:A:LEU:HD11	1:101:A:LEU:HG	15	0.16
(2,3994)	1:101:A:LEU:HD12	1:101:A:LEU:HG	16	0.16
(2,3994)	1:101:A:LEU:HD13	1:101:A:LEU:HG	17	0.16
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	8	0.16
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	15	0.16
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	19	0.16
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	2	0.16
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	20	0.16
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	6	0.16
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	11	0.16
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	19	0.16
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	17	0.16
(2,3908)	1:119:A:LYS:HD2	1:119:A:LYS:H	4	0.16
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	11	0.16
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	14	0.16
(2,3894)	1:92:A:LEU:HD23	1:93:A:PRO:HG2	7	0.16
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	15	0.16
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	9	0.16
(2,3847)	1:159:A:ILE:HG21	1:136:A:GLN:HB2	16	0.16
(2,3845)	1:60:A:PHE:HB3	1:55:A:THR:HG21	13	0.16
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	8	0.16
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	15	0.16
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	1	0.16
(2,3800)	1:129:A:VAL:HA	1:88:A:VAL:HG13	3	0.16
(2,3775)	1:126:A:ILE:HG22	1:31:A:ILE:HG23	5	0.16
(2,3740)	1:87:A:VAL:HG22	1:86:A:LYS:H	1	0.16
(2,3708)	1:92:A:LEU:HD12	1:78:A:ARG:H	6	0.16
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	5	0.16
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	8	0.16
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	14	0.16
(2,3698)	1:19:A:ASN:HB3	1:19:A:ASN:HB2	15	0.16
(2,3698)	1:17:A:ASN:HB3	1:17:A:ASN:HB2	19	0.16
(2,3693)	1:150:A:ILE:HG21	1:152:A:LYS:HD3	18	0.16
(2,3690)	1:150:A:ILE:HD11	1:143:A:MET:HG3	13	0.16
(2,3670)	1:58:A:PRO:HA	1:58:A:PRO:HD2	1	0.16
(2,3670)	1:58:A:PRO:HA	1:58:A:PRO:HD2	13	0.16
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD11	16	0.16
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	18	0.16
(2,3659)	1:66:A:THR:HB	1:52:A:ARG:HD3	13	0.16
(2,3657)	1:66:A:THR:HG22	1:68:A:ARG:H	4	0.16
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	1	0.16
(2,3619)	1:42:A:GLY:HA2	1:41:A:VAL:HA	16	0.16
(2,3582)	1:12:A:ILE:HG13	1:11:A:LEU:H	5	0.16
(2,3568)	1:76:A:TRP:HE1	1:154:A:TYR:HE1	14	0.16
(2,3567)	1:68:A:ARG:H	1:149:A:ILE:HG23	10	0.16
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	14	0.16
(2,3408)	1:143:A:MET:H	1:144:A:PHE:HD1	13	0.16
(2,3378)	1:112:A:ASP:HB3	1:113:A:ASN:H	17	0.16
(2,3358)	1:112:A:ASP:HB2	1:112:A:ASP:H	1	0.16
(2,3358)	1:112:A:ASP:HB2	1:112:A:ASP:H	18	0.16
(2,3301)	1:87:A:VAL:HG22	1:81:A:LEU:H	18	0.16
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD2	20	0.16
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	4	0.16
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	9	0.16
(2,3249)	1:62:A:LEU:H	1:60:A:PHE:HD2	20	0.16
(2,3248)	1:129:A:VAL:HG21	1:132:A:HIS:H	9	0.16
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	10	0.16
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG22	2	0.16
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG21	12	0.16
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG23	13	0.16
(2,3170)	1:38:A:THR:HG22	1:38:A:THR:H	6	0.16
(2,3170)	1:38:A:THR:HG21	1:38:A:THR:H	14	0.16
(2,3170)	1:38:A:THR:HG21	1:38:A:THR:H	17	0.16
(2,3170)	1:38:A:THR:HG23	1:38:A:THR:H	19	0.16
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	17	0.16
(2,3081)	1:22:A:TYR:H	1:22:A:TYR:HE2	2	0.16
(2,3024)	1:11:A:LEU:HD12	1:10:A:ARG:H	17	0.16
(2,3000)	1:38:A:THR:HG22	1:39:A:VAL:H	6	0.16
(2,2805)	1:126:A:ILE:HD12	1:130:A:ALA:H	14	0.16
(2,2761)	1:45:A:ARG:HD3	1:45:A:ARG:H	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD13	3	0.16
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD11	4	0.16
(2,2739)	1:137:A:ASN:H	1:136:A:GLN:HG3	7	0.16
(2,2678)	1:155:A:THR:H	1:154:A:TYR:HE2	17	0.16
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG23	10	0.16
(2,2611)	1:150:A:ILE:HD11	1:144:A:PHE:H	7	0.16
(2,2545)	1:85:A:SER:H	1:87:A:VAL:H	3	0.16
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD22	5	0.16
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	5	0.16
(2,2519)	1:92:A:LEU:H	1:71:A:TYR:HE1	4	0.16
(2,2482)	1:74:A:PHE:H	1:71:A:TYR:HE1	17	0.16
(2,2404)	1:112:A:ASP:HB3	1:115:A:ILE:HD12	4	0.16
(2,2404)	1:112:A:ASP:HB3	1:115:A:ILE:HD12	5	0.16
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	3	0.16
(2,2395)	1:91:A:PRO:HB2	1:91:A:PRO:HD2	15	0.16
(2,2392)	1:61:A:LYS:HB3	1:60:A:PHE:HA	8	0.16
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	6	0.16
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	9	0.16
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	12	0.16
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	3	0.16
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	8	0.16
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	13	0.16
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	14	0.16
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	18	0.16
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD12	9	0.16
(2,2232)	1:89:A:VAL:HG12	1:125:A:PHE:HD1	14	0.16
(2,2231)	1:81:A:LEU:HD11	1:89:A:VAL:HG22	16	0.16
(2,2212)	1:77:A:LEU:HD12	1:144:A:PHE:HZ	8	0.16
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG12	15	0.16
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG22	5	0.16
(2,2149)	1:33:A:VAL:HG12	1:32:A:ASP:H	20	0.16
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	1	0.16
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	9	0.16
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	18	0.16
(2,1952)	1:45:A:ARG:HD3	1:38:A:THR:HG22	7	0.16
(2,1929)	1:141:A:LEU:HD23	1:138:A:GLU:H	5	0.16
(2,1929)	1:141:A:LEU:HD23	1:138:A:GLU:H	6	0.16
(2,1929)	1:141:A:LEU:HD21	1:138:A:GLU:H	9	0.16
(2,1929)	1:141:A:LEU:HD23	1:138:A:GLU:H	17	0.16
(2,1922)	1:33:A:VAL:HG21	1:33:A:VAL:HA	7	0.16
(2,1922)	1:33:A:VAL:HG22	1:33:A:VAL:HA	8	0.16
(2,1922)	1:33:A:VAL:HG22	1:33:A:VAL:HA	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1915)	1:134:A:LEU:HD23	1:86:A:LYS:HB3	15	0.16
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	16	0.16
(2,1896)	1:115:A:ILE:HB	1:114:A:PHE:HE2	8	0.16
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	8	0.16
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD11	6	0.16
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD13	19	0.16
(2,1813)	1:86:A:LYS:HG3	1:86:A:LYS:HA	17	0.16
(2,1777)	1:80:A:GLU:HG2	1:80:A:GLU:H	13	0.16
(2,1756)	1:92:A:LEU:HD13	1:75:A:GLU:HB2	7	0.16
(2,1750)	1:80:A:GLU:HA	1:84:A:GLU:H	1	0.16
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	18	0.16
(2,1728)	1:63:A:LYS:HE2	1:63:A:LYS:HA	11	0.16
(2,1716)	1:61:A:LYS:HG3	1:61:A:LYS:HB3	4	0.16
(2,1700)	1:115:A:ILE:HG23	1:36:A:PRO:HD2	19	0.16
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	1	0.16
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG22	11	0.16
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	7	0.16
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	11	0.16
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG21	2	0.16
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG23	7	0.16
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG21	17	0.16
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	1	0.16
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	2	0.16
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	3	0.16
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	4	0.16
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	8	0.16
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	11	0.16
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	12	0.16
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	16	0.16
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	17	0.16
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	18	0.16
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	19	0.16
(2,1583)	1:141:A:LEU:HD12	1:138:A:GLU:H	12	0.16
(2,1516)	1:57:A:LEU:HD12	1:57:A:LEU:HD21	9	0.16
(2,1511)	1:59:A:ILE:HG23	1:57:A:LEU:HG	3	0.16
(2,1511)	1:59:A:ILE:HG21	1:57:A:LEU:HG	4	0.16
(2,1511)	1:59:A:ILE:HG21	1:57:A:LEU:HG	11	0.16
(2,1499)	1:57:A:LEU:HD21	1:58:A:PRO:HD3	11	0.16
(2,1499)	1:57:A:LEU:HD23	1:58:A:PRO:HD3	12	0.16
(2,1489)	1:29:A:LEU:HD11	1:55:A:THR:HA	16	0.16
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	18	0.16
(2,1398)	1:33:A:VAL:HG12	1:74:A:PHE:HD2	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1381)	1:87:A:VAL:HG23	1:135:A:ALA:HB3	8	0.16
(2,1371)	1:21:A:ALA:HB3	1:22:A:TYR:HD1	15	0.16
(2,1341)	1:57:A:LEU:HB2	1:59:A:ILE:HG21	19	0.16
(2,1339)	1:59:A:ILE:HG23	1:58:A:PRO:HD3	14	0.16
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG22	2	0.16
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG22	18	0.16
(2,1319)	1:149:A:ILE:HG21	1:149:A:ILE:HB	3	0.16
(2,1319)	1:149:A:ILE:HG21	1:149:A:ILE:HB	4	0.16
(2,1319)	1:149:A:ILE:HG22	1:149:A:ILE:HB	5	0.16
(2,1319)	1:149:A:ILE:HG23	1:149:A:ILE:HB	11	0.16
(2,1299)	1:51:A:ILE:HD13	1:33:A:VAL:HB	6	0.16
(2,1290)	1:51:A:ILE:HD12	1:49:A:TYR:HB3	9	0.16
(2,1276)	1:115:A:ILE:HD12	1:114:A:PHE:HD2	15	0.16
(2,1267)	1:152:A:LYS:HB2	1:150:A:ILE:HG22	5	0.16
(2,1263)	1:152:A:LYS:HB3	1:76:A:TRP:HE1	17	0.16
(2,1203)	1:29:A:LEU:HD21	1:31:A:ILE:HD11	2	0.16
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	1	0.16
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	8	0.16
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	14	0.16
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	16	0.16
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	17	0.16
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	19	0.16
(2,1137)	1:59:A:ILE:HD11	1:59:A:ILE:HB	2	0.16
(2,1137)	1:59:A:ILE:HD11	1:59:A:ILE:HB	6	0.16
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	8	0.16
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	10	0.16
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	12	0.16
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	15	0.16
(2,1137)	1:59:A:ILE:HD13	1:59:A:ILE:HB	18	0.16
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	20	0.16
(2,1056)	1:159:A:ILE:HD12	1:139:A:ARG:H	14	0.16
(2,996)	1:101:A:LEU:HD23	1:101:A:LEU:HG	1	0.16
(2,995)	1:101:A:LEU:HD23	1:101:A:LEU:H	2	0.16
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD22	3	0.16
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	19	0.16
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	1	0.16
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	5	0.16
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	10	0.16
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	12	0.16
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	13	0.16
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	14	0.16
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	17	0.16
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	19	0.16
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	20	0.16
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	8	0.16
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	3	0.16
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	10	0.16
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	13	0.16
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	14	0.16
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	20	0.16
(2,954)	1:148:A:GLU:HB2	1:149:A:ILE:H	12	0.16
(2,954)	1:148:A:GLU:HB2	1:149:A:ILE:H	19	0.16
(2,870)	1:115:A:ILE:HD12	1:36:A:PRO:HB3	11	0.16
(2,870)	1:115:A:ILE:HD12	1:36:A:PRO:HB3	16	0.16
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	11	0.16
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	19	0.16
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	9	0.16
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	18	0.16
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	4	0.16
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	5	0.16
(2,634)	1:133:A:PRO:HB2	1:133:A:PRO:HD2	3	0.16
(2,598)	1:129:A:VAL:HG12	1:125:A:PHE:HD1	4	0.16
(2,598)	1:129:A:VAL:HG11	1:125:A:PHE:HD1	7	0.16
(2,596)	1:129:A:VAL:HG13	1:128:A:LYS:H	6	0.16
(2,596)	1:129:A:VAL:HG11	1:128:A:LYS:H	12	0.16
(2,596)	1:129:A:VAL:HG13	1:128:A:LYS:H	17	0.16
(2,559)	1:150:A:ILE:HG22	1:143:A:MET:HB3	11	0.16
(2,541)	1:143:A:MET:HE3	1:144:A:PHE:HD2	14	0.16
(2,531)	1:143:A:MET:HE1	1:154:A:TYR:HB2	1	0.16
(2,531)	1:143:A:MET:HE1	1:154:A:TYR:HB2	5	0.16
(2,531)	1:143:A:MET:HE1	1:154:A:TYR:HB2	11	0.16
(2,530)	1:143:A:MET:HE3	1:150:A:ILE:HA	6	0.16
(2,526)	1:122:A:LEU:HD11	1:75:A:GLU:H	12	0.16
(2,455)	1:48:A:THR:HG21	1:49:A:TYR:H	1	0.16
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG11	8	0.16
(2,381)	1:89:A:VAL:HG13	1:81:A:LEU:HD11	1	0.16
(2,372)	1:89:A:VAL:HG13	1:81:A:LEU:HB2	19	0.16
(2,368)	1:82:A:GLU:HA	1:89:A:VAL:HG21	9	0.16
(2,368)	1:82:A:GLU:HA	1:89:A:VAL:HG23	16	0.16
(2,362)	1:89:A:VAL:HG22	1:87:A:VAL:H	14	0.16
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	11	0.16
(2,272)	1:22:A:TYR:HB2	1:28:A:PHE:HD2	14	0.16
(2,241)	1:150:A:ILE:HG22	1:151:A:ASP:H	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	8	0.16
(2,194)	1:58:A:PRO:HA	1:58:A:PRO:HB2	16	0.16
(2,133)	1:67:A:VAL:HG11	1:66:A:THR:H	14	0.16
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	4	0.16
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	5	0.16
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	17	0.16
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	19	0.16
(2,46)	1:83:A:ARG:HB3	1:83:A:ARG:HD3	9	0.16
(2,4973)	1:137:A:ASN:HD21	1:159:A:ILE:HG22	2	0.15
(2,4973)	1:59:A:ILE:HD12	1:137:A:ASN:HD21	19	0.15
(2,4966)	1:76:A:TRP:HE1	1:80:A:GLU:H	4	0.15
(2,4945)	1:77:A:LEU:HD23	1:142:A:HIS:H	11	0.15
(2,4931)	1:139:A:ARG:H	1:141:A:LEU:HD13	13	0.15
(2,4905)	1:126:A:ILE:H	1:51:A:ILE:HG13	4	0.15
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	20	0.15
(2,4864)	1:107:A:ASP:H	1:108:A:GLY:HA2	1	0.15
(2,4859)	1:158:A:LYS:H	1:158:A:LYS:HD2	11	0.15
(2,4852)	1:97:A:PHE:HB3	1:96:A:ALA:H	2	0.15
(2,4850)	1:84:A:GLU:HB3	1:84:A:GLU:H	6	0.15
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	10	0.15
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	20	0.15
(2,4832)	1:63:A:LYS:HE2	1:64:A:GLU:H	5	0.15
(2,4792)	1:28:A:PHE:H	1:29:A:LEU:HA	11	0.15
(2,4760)	1:5:A:VAL:HG21	1:4:A:THR:H	11	0.15
(2,4727)	1:33:A:VAL:HG21	1:50:A:GLU:H	9	0.15
(2,4722)	1:161:A:HIS:HA	1:160:A:ARG:H	16	0.15
(2,4721)	1:160:A:ARG:H	1:158:A:LYS:HE3	8	0.15
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	1	0.15
(2,4702)	1:64:A:GLU:HB3	1:64:A:GLU:H	4	0.15
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD3	6	0.15
(2,4700)	1:44:A:GLY:H	1:43:A:ARG:HD2	13	0.15
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	19	0.15
(2,4682)	1:81:A:LEU:HD21	1:137:A:ASN:H	12	0.15
(2,4682)	1:81:A:LEU:HD23	1:137:A:ASN:H	16	0.15
(2,4681)	1:141:A:LEU:HD23	1:137:A:ASN:H	2	0.15
(2,4681)	1:141:A:LEU:HD21	1:137:A:ASN:H	9	0.15
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	10	0.15
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	13	0.15
(2,4673)	1:120:A:GLN:HE22	1:117:A:GLU:HB3	15	0.15
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	1	0.15
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	9	0.15
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	12	0.15
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	20	0.15
(2,4630)	1:7:A:ASP:H	1:5:A:VAL:HG13	3	0.15
(2,4627)	1:94:A:GLY:H	1:93:A:PRO:HG2	2	0.15
(2,4620)	1:82:A:GLU:HA	1:85:A:SER:H	3	0.15
(2,4574)	1:88:A:VAL:HG23	1:90:A:PRO:HD2	12	0.15
(2,4573)	1:68:A:ARG:HD2	1:68:A:ARG:HB3	14	0.15
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	14	0.15
(2,4546)	1:129:A:VAL:HG13	1:88:A:VAL:HA	1	0.15
(2,4546)	1:129:A:VAL:HG12	1:130:A:ALA:HA	2	0.15
(2,4546)	1:129:A:VAL:HG12	1:130:A:ALA:HA	3	0.15
(2,4546)	1:129:A:VAL:HG12	1:130:A:ALA:HA	19	0.15
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	9	0.15
(2,4536)	1:92:A:LEU:HD12	1:125:A:PHE:HE1	20	0.15
(2,4534)	1:149:A:ILE:HG22	1:150:A:ILE:HG13	1	0.15
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	2	0.15
(2,4518)	1:115:A:ILE:HD11	1:113:A:ASN:H	14	0.15
(2,4498)	1:137:A:ASN:HB2	1:138:A:GLU:HG2	12	0.15
(2,4490)	1:128:A:LYS:HD3	1:90:A:PRO:HB3	9	0.15
(2,4484)	1:95:A:LYS:HG2	1:95:A:LYS:HE2	10	0.15
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	9	0.15
(2,4432)	1:30:A:GLU:HB3	1:28:A:PHE:HE1	3	0.15
(2,4367)	1:62:A:LEU:HD21	1:61:A:LYS:H	10	0.15
(2,4365)	1:145:A:LEU:HD23	1:146:A:GLN:HG3	20	0.15
(2,4350)	1:130:A:ALA:HB3	1:145:A:LEU:HD22	7	0.15
(2,4326)	1:33:A:VAL:HG21	1:125:A:PHE:HD2	4	0.15
(2,4325)	1:33:A:VAL:HG22	1:119:A:LYS:HG3	8	0.15
(2,4314)	1:100:A:GLN:HG2	1:101:A:LEU:HD12	19	0.15
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	3	0.15
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	13	0.15
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	19	0.15
(2,4308)	1:99:A:ARG:HA	1:99:A:ARG:HD2	1	0.15
(2,4308)	1:99:A:ARG:HD3	1:99:A:ARG:HA	20	0.15
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG23	16	0.15
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG21	18	0.15
(2,4291)	1:64:A:GLU:HG2	1:54:A:LYS:HE2	9	0.15
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	2	0.15
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	12	0.15
(2,4273)	1:16:A:GLN:HG3	1:15:A:PRO:HA	5	0.15
(2,4246)	1:20:A:ASP:HB3	1:20:A:ASP:HA	7	0.15
(2,4246)	1:20:A:ASP:HB3	1:20:A:ASP:HA	20	0.15
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4208)	1:158:A:LYS:HD2	1:158:A:LYS:HG3	9	0.15
(2,4194)	1:10:A:ARG:HA	1:10:A:ARG:H	12	0.15
(2,4192)	1:50:A:GLU:HG2	1:52:A:ARG:HD3	18	0.15
(2,4186)	1:77:A:LEU:HD21	1:144:A:PHE:HB3	20	0.15
(2,4176)	1:63:A:LYS:HB3	1:63:A:LYS:HD2	5	0.15
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	7	0.15
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	11	0.15
(2,4162)	1:134:A:LEU:HB3	1:134:A:LEU:HD12	13	0.15
(2,4162)	1:134:A:LEU:HB3	1:134:A:LEU:HD13	15	0.15
(2,4159)	1:53:A:VAL:HG13	1:66:A:THR:HA	9	0.15
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG2	7	0.15
(2,4124)	1:136:A:GLN:HG2	1:141:A:LEU:HD22	1	0.15
(2,4103)	1:51:A:ILE:HG23	1:60:A:PHE:HE2	1	0.15
(2,4102)	1:51:A:ILE:HG21	1:53:A:VAL:HB	4	0.15
(2,4102)	1:51:A:ILE:HG22	1:53:A:VAL:HB	10	0.15
(2,4090)	1:31:A:ILE:HD12	1:31:A:ILE:HG13	3	0.15
(2,4090)	1:31:A:ILE:HD13	1:31:A:ILE:HG13	5	0.15
(2,4090)	1:31:A:ILE:HD12	1:31:A:ILE:HG13	9	0.15
(2,4090)	1:31:A:ILE:HD13	1:31:A:ILE:HG13	10	0.15
(2,4090)	1:31:A:ILE:HD11	1:31:A:ILE:HG13	12	0.15
(2,4090)	1:31:A:ILE:HD13	1:31:A:ILE:HG13	13	0.15
(2,4090)	1:31:A:ILE:HD13	1:31:A:ILE:HG13	14	0.15
(2,4078)	1:152:A:LYS:HB2	1:152:A:LYS:HD2	7	0.15
(2,4058)	1:29:A:LEU:HD13	1:31:A:ILE:HA	6	0.15
(2,4058)	1:29:A:LEU:HD11	1:31:A:ILE:HA	11	0.15
(2,4058)	1:29:A:LEU:HD11	1:31:A:ILE:HA	17	0.15
(2,4052)	1:29:A:LEU:HD21	1:57:A:LEU:HG	8	0.15
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD13	14	0.15
(2,4010)	1:139:A:ARG:HB3	1:141:A:LEU:H	1	0.15
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	12	0.15
(2,3995)	1:11:A:LEU:HA	1:11:A:LEU:HG	3	0.15
(2,3987)	1:26:A:SER:HB2	1:27:A:ASN:HB3	2	0.15
(2,3984)	1:104:A:ARG:HD2	1:104:A:ARG:HA	6	0.15
(2,3974)	1:3:A:GLU:HG2	1:3:A:GLU:HB3	17	0.15
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	10	0.15
(2,3971)	1:84:A:GLU:HB3	1:84:A:GLU:H	14	0.15
(2,3930)	1:119:A:LYS:HE3	1:116:A:GLU:HG2	20	0.15
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	12	0.15
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	9	0.15
(2,3895)	1:120:A:GLN:HA	1:122:A:LEU:H	15	0.15
(2,3887)	1:122:A:LEU:HD21	1:125:A:PHE:HD2	16	0.15
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD2	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3849)	1:53:A:VAL:HG22	1:55:A:THR:HG23	15	0.15
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	14	0.15
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	16	0.15
(2,3815)	1:14:A:LYS:HB3	1:14:A:LYS:HG3	3	0.15
(2,3815)	1:14:A:LYS:HB3	1:14:A:LYS:HG3	4	0.15
(2,3815)	1:14:A:LYS:HB3	1:14:A:LYS:HG3	20	0.15
(2,3788)	1:152:A:LYS:HA	1:152:A:LYS:HD2	3	0.15
(2,3783)	1:143:A:MET:HE3	1:143:A:MET:HB2	17	0.15
(2,3770)	1:126:A:ILE:HG23	1:123:A:GLU:H	10	0.15
(2,3763)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	15	0.15
(2,3759)	1:53:A:VAL:HG21	1:30:A:GLU:H	15	0.15
(2,3729)	1:89:A:VAL:HG23	1:129:A:VAL:HB	6	0.15
(2,3715)	1:90:A:PRO:HD3	1:128:A:LYS:HD2	16	0.15
(2,3715)	1:90:A:PRO:HD3	1:128:A:LYS:HD3	17	0.15
(2,3715)	1:90:A:PRO:HD3	1:128:A:LYS:HD3	20	0.15
(2,3690)	1:150:A:ILE:HD13	1:143:A:MET:HG3	2	0.15
(2,3670)	1:58:A:PRO:HA	1:58:A:PRO:HD2	2	0.15
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD12	18	0.15
(2,3568)	1:76:A:TRP:HE1	1:154:A:TYR:HE1	6	0.15
(2,3568)	1:76:A:TRP:HE1	1:154:A:TYR:HE1	13	0.15
(2,3568)	1:76:A:TRP:HE1	1:154:A:TYR:HE1	17	0.15
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG22	7	0.15
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG21	8	0.15
(2,3562)	1:112:A:ASP:H	1:115:A:ILE:HG23	17	0.15
(2,3530)	1:2:A:ALA:H	1:1:A:THR:HB	12	0.15
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	12	0.15
(2,3358)	1:112:A:ASP:HB2	1:112:A:ASP:H	12	0.15
(2,3301)	1:87:A:VAL:HG22	1:81:A:LEU:H	16	0.15
(2,3289)	1:150:A:ILE:HD11	1:73:A:ASP:H	16	0.15
(2,3289)	1:150:A:ILE:HD12	1:73:A:ASP:H	20	0.15
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	1	0.15
(2,3253)	1:55:A:THR:HG23	1:64:A:GLU:H	2	0.15
(2,3253)	1:55:A:THR:HG21	1:64:A:GLU:H	3	0.15
(2,3248)	1:129:A:VAL:HG22	1:132:A:HIS:H	5	0.15
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG22	5	0.15
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG22	10	0.15
(2,3170)	1:38:A:THR:HG21	1:38:A:THR:H	1	0.15
(2,3170)	1:38:A:THR:HG23	1:38:A:THR:H	16	0.15
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	3	0.15
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	4	0.15
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	6	0.15
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	8	0.15
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	18	0.15
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	19	0.15
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	20	0.15
(2,3058)	1:17:A:ASN:H	1:17:A:ASN:HB3	11	0.15
(2,3058)	1:17:A:ASN:H	1:17:A:ASN:HB3	19	0.15
(2,3042)	1:14:A:LYS:H	1:14:A:LYS:HD3	15	0.15
(2,3024)	1:11:A:LEU:HD13	1:10:A:ARG:H	7	0.15
(2,2996)	1:6:A:ALA:HB1	1:6:A:ALA:H	10	0.15
(2,2983)	1:4:A:THR:H	1:3:A:GLU:HB2	18	0.15
(2,2982)	1:4:A:THR:HG22	1:4:A:THR:H	20	0.15
(2,2805)	1:126:A:ILE:HD13	1:130:A:ALA:H	15	0.15
(2,2801)	1:28:A:PHE:H	1:27:A:ASN:HD22	17	0.15
(2,2783)	1:41:A:VAL:H	1:45:A:ARG:HD3	12	0.15
(2,2776)	1:42:A:GLY:H	1:45:A:ARG:HD3	16	0.15
(2,2754)	1:18:A:LEU:H	1:17:A:ASN:HD22	5	0.15
(2,2751)	1:18:A:LEU:H	1:18:A:LEU:HD13	13	0.15
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	12	0.15
(2,2739)	1:137:A:ASN:H	1:136:A:GLN:HG3	17	0.15
(2,2671)	1:103:A:PHE:H	1:104:A:ARG:HB3	3	0.15
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD1	3	0.15
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	3	0.15
(2,2611)	1:150:A:ILE:HD13	1:144:A:PHE:H	20	0.15
(2,2570)	1:96:A:ALA:H	1:95:A:LYS:HG3	9	0.15
(2,2519)	1:92:A:LEU:H	1:71:A:TYR:HE1	3	0.15
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	3	0.15
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	13	0.15
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	14	0.15
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	11	0.15
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	12	0.15
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	15	0.15
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	20	0.15
(2,2338)	1:29:A:LEU:HD22	1:130:A:ALA:H	12	0.15
(2,2317)	1:74:A:PHE:HB2	1:125:A:PHE:HD2	13	0.15
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG22	6	0.15
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG22	13	0.15
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD12	13	0.15
(2,2232)	1:89:A:VAL:HG11	1:125:A:PHE:HD1	13	0.15
(2,2232)	1:89:A:VAL:HG11	1:125:A:PHE:HD1	17	0.15
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	18	0.15
(2,2151)	1:122:A:LEU:HD21	1:33:A:VAL:HG11	17	0.15
(2,2149)	1:33:A:VAL:HG12	1:32:A:ASP:H	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	8	0.15
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	14	0.15
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	15	0.15
(2,2073)	1:4:A:THR:HB	1:3:A:GLU:H	3	0.15
(2,2045)	1:51:A:ILE:HG12	1:33:A:VAL:HA	2	0.15
(2,2045)	1:51:A:ILE:HG12	1:33:A:VAL:HA	18	0.15
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	5	0.15
(2,1972)	1:157:A:SER:HB3	1:158:A:LYS:HG2	19	0.15
(2,1946)	1:145:A:LEU:HA	1:145:A:LEU:HD13	20	0.15
(2,1944)	1:144:A:PHE:HA	1:144:A:PHE:HZ	15	0.15
(2,1922)	1:33:A:VAL:HG22	1:33:A:VAL:HA	4	0.15
(2,1922)	1:33:A:VAL:HG22	1:33:A:VAL:HA	5	0.15
(2,1922)	1:33:A:VAL:HG21	1:33:A:VAL:HA	16	0.15
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD12	2	0.15
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD12	12	0.15
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD13	16	0.15
(2,1791)	1:83:A:ARG:HD2	1:83:A:ARG:H	14	0.15
(2,1769)	1:75:A:GLU:HG2	1:76:A:TRP:H	4	0.15
(2,1769)	1:75:A:GLU:HG2	1:76:A:TRP:H	14	0.15
(2,1756)	1:92:A:LEU:HD11	1:75:A:GLU:HB2	5	0.15
(2,1716)	1:61:A:LYS:HG3	1:61:A:LYS:HB3	7	0.15
(2,1716)	1:61:A:LYS:HG3	1:61:A:LYS:HB3	11	0.15
(2,1716)	1:61:A:LYS:HG3	1:61:A:LYS:HB3	19	0.15
(2,1696)	1:115:A:ILE:HG23	1:36:A:PRO:HG2	12	0.15
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	6	0.15
(2,1679)	1:126:A:ILE:HG22	1:31:A:ILE:HG21	20	0.15
(2,1672)	1:31:A:ILE:HG23	1:127:A:ASN:H	10	0.15
(2,1671)	1:31:A:ILE:HG22	1:127:A:ASN:HD21	2	0.15
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	5	0.15
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	9	0.15
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	18	0.15
(2,1634)	1:156:A:PRO:HA	1:154:A:TYR:HE2	20	0.15
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG21	6	0.15
(2,1612)	1:66:A:THR:HG22	1:50:A:GLU:HB3	1	0.15
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	9	0.15
(2,1604)	1:102:A:PRO:HB3	1:102:A:PRO:HG2	15	0.15
(2,1583)	1:141:A:LEU:HD12	1:138:A:GLU:H	1	0.15
(2,1499)	1:57:A:LEU:HD21	1:58:A:PRO:HD3	14	0.15
(2,1499)	1:57:A:LEU:HD21	1:58:A:PRO:HD3	19	0.15
(2,1489)	1:29:A:LEU:HD11	1:55:A:THR:HA	13	0.15
(2,1406)	1:39:A:VAL:HG22	1:39:A:VAL:HA	1	0.15
(2,1357)	1:51:A:ILE:HG23	1:34:A:SER:H	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1330)	1:115:A:ILE:HG21	1:37:A:GLN:H	19	0.15
(2,1324)	1:12:A:ILE:HG21	1:12:A:ILE:HB	15	0.15
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG23	4	0.15
(2,1319)	1:149:A:ILE:HG23	1:149:A:ILE:HB	2	0.15
(2,1319)	1:149:A:ILE:HG22	1:149:A:ILE:HB	9	0.15
(2,1319)	1:149:A:ILE:HG23	1:149:A:ILE:HB	18	0.15
(2,1290)	1:51:A:ILE:HD12	1:49:A:TYR:HB3	14	0.15
(2,1290)	1:51:A:ILE:HD13	1:49:A:TYR:HB3	17	0.15
(2,1257)	1:150:A:ILE:HG22	1:152:A:LYS:HG2	13	0.15
(2,1212)	1:29:A:LEU:HD13	1:57:A:LEU:H	20	0.15
(2,1197)	1:29:A:LEU:HD21	1:136:A:GLN:HG3	10	0.15
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD11	11	0.15
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD11	15	0.15
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	2	0.15
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	5	0.15
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	7	0.15
(2,1169)	1:45:A:ARG:HD2	1:38:A:THR:HG22	6	0.15
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	7	0.15
(2,1137)	1:59:A:ILE:HD13	1:59:A:ILE:HB	11	0.15
(2,1107)	1:12:A:ILE:HD12	1:12:A:ILE:HG13	2	0.15
(2,1107)	1:12:A:ILE:HD11	1:12:A:ILE:HG13	3	0.15
(2,1107)	1:12:A:ILE:HD11	1:12:A:ILE:HG13	6	0.15
(2,1107)	1:12:A:ILE:HD12	1:12:A:ILE:HG13	11	0.15
(2,1107)	1:12:A:ILE:HD11	1:12:A:ILE:HG13	12	0.15
(2,1107)	1:12:A:ILE:HD11	1:12:A:ILE:HG13	20	0.15
(2,1103)	1:57:A:LEU:HD22	1:27:A:ASN:HB3	5	0.15
(2,1099)	1:18:A:LEU:HD23	1:18:A:LEU:HA	17	0.15
(2,1093)	1:139:A:ARG:HG2	1:154:A:TYR:HE2	13	0.15
(2,1092)	1:139:A:ARG:HG3	1:159:A:ILE:HD11	5	0.15
(2,1056)	1:159:A:ILE:HD12	1:139:A:ARG:H	2	0.15
(2,995)	1:101:A:LEU:HD23	1:101:A:LEU:H	13	0.15
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	11	0.15
(2,975)	1:104:A:ARG:HA	1:104:A:ARG:HB3	7	0.15
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	8	0.15
(2,963)	1:40:A:GLY:HA3	1:39:A:VAL:HB	5	0.15
(2,877)	1:115:A:ILE:HG22	1:47:A:THR:HG23	11	0.15
(2,855)	1:115:A:ILE:HG22	1:112:A:ASP:HA	20	0.15
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	2	0.15
(2,681)	1:159:A:ILE:HG21	1:159:A:ILE:HB	3	0.15
(2,673)	1:55:A:THR:HG21	1:62:A:LEU:H	19	0.15
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	6	0.15
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	12	0.15
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	17	0.15
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	1	0.15
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	13	0.15
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	14	0.15
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	15	0.15
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	16	0.15
(2,623)	1:129:A:VAL:HG21	1:130:A:ALA:HB3	11	0.15
(2,596)	1:129:A:VAL:HG12	1:128:A:LYS:H	7	0.15
(2,540)	1:143:A:MET:HE3	1:76:A:TRP:HZ2	2	0.15
(2,540)	1:143:A:MET:HE3	1:76:A:TRP:HZ2	10	0.15
(2,531)	1:143:A:MET:HE3	1:154:A:TYR:HB2	7	0.15
(2,530)	1:143:A:MET:HE2	1:150:A:ILE:HA	2	0.15
(2,530)	1:143:A:MET:HE2	1:150:A:ILE:HA	5	0.15
(2,521)	1:122:A:LEU:HD12	1:49:A:TYR:HD2	15	0.15
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG12	2	0.15
(2,362)	1:89:A:VAL:HG22	1:87:A:VAL:H	2	0.15
(2,362)	1:89:A:VAL:HG23	1:87:A:VAL:H	19	0.15
(2,357)	1:89:A:VAL:HG11	1:125:A:PHE:HZ	1	0.15
(2,351)	1:42:A:GLY:HA3	1:41:A:VAL:HG11	6	0.15
(2,311)	1:92:A:LEU:HD12	1:92:A:LEU:H	7	0.15
(2,311)	1:92:A:LEU:HD13	1:92:A:LEU:H	13	0.15
(2,311)	1:92:A:LEU:HD12	1:92:A:LEU:H	14	0.15
(2,305)	1:92:A:LEU:HD13	1:75:A:GLU:H	18	0.15
(2,292)	1:92:A:LEU:HD13	1:93:A:PRO:HD2	10	0.15
(2,292)	1:92:A:LEU:HD13	1:93:A:PRO:HD2	20	0.15
(2,291)	1:92:A:LEU:HD23	1:93:A:PRO:HD3	1	0.15
(2,291)	1:92:A:LEU:HD22	1:93:A:PRO:HD3	12	0.15
(2,248)	1:150:A:ILE:HG21	1:144:A:PHE:HD2	7	0.15
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG23	5	0.15
(2,164)	1:61:A:LYS:HA	1:61:A:LYS:HB3	10	0.15
(2,151)	1:66:A:THR:HG21	1:50:A:GLU:H	9	0.15
(2,150)	1:66:A:THR:HG23	1:53:A:VAL:H	3	0.15
(2,150)	1:66:A:THR:HG21	1:53:A:VAL:H	7	0.15
(2,150)	1:66:A:THR:HG22	1:53:A:VAL:H	10	0.15
(2,125)	1:127:A:ASN:HA	1:127:A:ASN:HD22	8	0.15
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	3	0.15
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	7	0.15
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	16	0.15
(2,52)	1:83:A:ARG:HA	1:83:A:ARG:HD2	3	0.15
(2,15)	1:32:A:ASP:HB2	1:52:A:ARG:HB3	1	0.15
(2,15)	1:32:A:ASP:HB2	1:52:A:ARG:HB3	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,15)	1:32:A:ASP:HB2	1:52:A:ARG:HB3	8	0.15
(1,21)	1:74:A:PHE:H	1:70:A:ARG:O	2	0.15
(1,21)	1:74:A:PHE:H	1:70:A:ARG:O	19	0.15
(2,4981)	1:89:A:VAL:H	1:128:A:LYS:HB2	9	0.14
(2,4955)	1:100:A:GLN:HE22	1:101:A:LEU:HD23	13	0.14
(2,4942)	1:140:A:CYS:H	1:139:A:ARG:HG2	14	0.14
(2,4901)	1:124:A:GLN:HE21	1:124:A:GLN:HB3	18	0.14
(2,4899)	1:124:A:GLN:HE22	1:121:A:GLY:HA2	17	0.14
(2,4890)	1:143:A:MET:H	1:145:A:LEU:HD23	15	0.14
(2,4884)	1:116:A:GLU:HG2	1:120:A:GLN:HE21	8	0.14
(2,4826)	1:54:A:LYS:H	1:31:A:ILE:HG13	20	0.14
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD2	5	0.14
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD1	10	0.14
(2,4784)	1:23:A:GLY:H	1:24:A:PRO:HG2	2	0.14
(2,4760)	1:5:A:VAL:HG22	1:4:A:THR:H	12	0.14
(2,4736)	1:138:A:GLU:HG2	1:135:A:ALA:H	12	0.14
(2,4725)	1:50:A:GLU:H	1:36:A:PRO:HB3	11	0.14
(2,4719)	1:151:A:ASP:HB2	1:152:A:LYS:H	6	0.14
(2,4696)	1:45:A:ARG:H	1:110:A:PHE:HE1	18	0.14
(2,4694)	1:45:A:ARG:H	1:43:A:ARG:HG2	16	0.14
(2,4689)	1:121:A:GLY:H	1:93:A:PRO:HB2	16	0.14
(2,4682)	1:81:A:LEU:HD21	1:137:A:ASN:H	6	0.14
(2,4682)	1:81:A:LEU:HD23	1:137:A:ASN:H	8	0.14
(2,4682)	1:81:A:LEU:HD21	1:137:A:ASN:H	18	0.14
(2,4681)	1:141:A:LEU:HD23	1:137:A:ASN:H	6	0.14
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	1	0.14
(2,4668)	1:157:A:SER:H	1:139:A:ARG:HG3	10	0.14
(2,4668)	1:157:A:SER:H	1:139:A:ARG:HG3	18	0.14
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	2	0.14
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	3	0.14
(2,4630)	1:7:A:ASP:H	1:5:A:VAL:HG23	5	0.14
(2,4618)	1:85:A:SER:H	1:86:A:LYS:HG3	6	0.14
(2,4594)	1:19:A:ASN:H	1:18:A:LEU:HB3	14	0.14
(2,4574)	1:88:A:VAL:HG21	1:90:A:PRO:HD2	2	0.14
(2,4574)	1:88:A:VAL:HG22	1:90:A:PRO:HD2	5	0.14
(2,4574)	1:88:A:VAL:HG23	1:90:A:PRO:HD2	7	0.14
(2,4574)	1:88:A:VAL:HG23	1:90:A:PRO:HD2	17	0.14
(2,4573)	1:68:A:ARG:HD2	1:68:A:ARG:HB3	1	0.14
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	7	0.14
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	9	0.14
(2,4573)	1:68:A:ARG:HD2	1:68:A:ARG:HB3	13	0.14
(2,4573)	1:68:A:ARG:HD2	1:68:A:ARG:HB3	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4563)	1:32:A:ASP:HB2	1:52:A:ARG:HD3	18	0.14
(2,4552)	1:122:A:LEU:HB3	1:118:A:ARG:HA	19	0.14
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	12	0.14
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	13	0.14
(2,4546)	1:129:A:VAL:HG13	1:130:A:ALA:HA	4	0.14
(2,4546)	1:129:A:VAL:HG13	1:130:A:ALA:HA	6	0.14
(2,4546)	1:129:A:VAL:HG11	1:130:A:ALA:HA	10	0.14
(2,4546)	1:129:A:VAL:HG11	1:130:A:ALA:HA	12	0.14
(2,4546)	1:129:A:VAL:HG11	1:130:A:ALA:HA	18	0.14
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	7	0.14
(2,4543)	1:85:A:SER:HB2	1:86:A:LYS:HG3	11	0.14
(2,4473)	1:77:A:LEU:HD13	1:144:A:PHE:HB2	8	0.14
(2,4462)	1:62:A:LEU:HD12	1:61:A:LYS:HA	1	0.14
(2,4430)	1:26:A:SER:HB2	1:26:A:SER:HA	17	0.14
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD21	14	0.14
(2,4398)	1:62:A:LEU:HD11	1:61:A:LYS:HD2	8	0.14
(2,4378)	1:58:A:PRO:HA	1:22:A:TYR:HD1	17	0.14
(2,4359)	1:157:A:SER:HB3	1:158:A:LYS:HD2	13	0.14
(2,4335)	1:59:A:ILE:HG23	1:141:A:LEU:HB3	4	0.14
(2,4327)	1:33:A:VAL:HG22	1:122:A:LEU:H	17	0.14
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	8	0.14
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG23	2	0.14
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	6	0.14
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	19	0.14
(2,4276)	1:75:A:GLU:HG2	1:74:A:PHE:HA	3	0.14
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	3	0.14
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	13	0.14
(2,4273)	1:16:A:GLN:HG3	1:15:A:PRO:HA	15	0.14
(2,4265)	1:68:A:ARG:HD2	1:68:A:ARG:H	1	0.14
(2,4265)	1:68:A:ARG:HD2	1:68:A:ARG:H	19	0.14
(2,4264)	1:52:A:ARG:HD3	1:53:A:VAL:H	4	0.14
(2,4249)	1:12:A:ILE:HD12	1:11:A:LEU:H	8	0.14
(2,4247)	1:12:A:ILE:HB	1:13:A:THR:HA	16	0.14
(2,4243)	1:34:A:SER:HB3	1:32:A:ASP:HB3	17	0.14
(2,4234)	1:35:A:ASN:HB3	1:36:A:PRO:HD2	19	0.14
(2,4225)	1:25:A:PRO:HG2	1:26:A:SER:HB2	13	0.14
(2,4217)	1:25:A:PRO:HA	1:58:A:PRO:HD2	17	0.14
(2,4215)	1:156:A:PRO:HD3	1:139:A:ARG:HG2	20	0.14
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	3	0.14
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	3	0.14
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	15	0.14
(2,4204)	1:158:A:LYS:HD2	1:137:A:ASN:HD22	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4202)	1:159:A:ILE:HG23	1:160:A:ARG:HD3	8	0.14
(2,4179)	1:141:A:LEU:HD13	1:60:A:PHE:HZ	3	0.14
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	19	0.14
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	14	0.14
(2,4162)	1:134:A:LEU:HB3	1:134:A:LEU:HD11	19	0.14
(2,4159)	1:53:A:VAL:HG12	1:66:A:THR:HA	18	0.14
(2,4103)	1:51:A:ILE:HG22	1:60:A:PHE:HE2	11	0.14
(2,4090)	1:31:A:ILE:HD12	1:31:A:ILE:HG13	7	0.14
(2,4090)	1:31:A:ILE:HD13	1:31:A:ILE:HG13	17	0.14
(2,4090)	1:31:A:ILE:HD11	1:31:A:ILE:HG13	18	0.14
(2,4090)	1:31:A:ILE:HD12	1:31:A:ILE:HG13	19	0.14
(2,4082)	1:126:A:ILE:HD12	1:129:A:VAL:H	8	0.14
(2,4078)	1:152:A:LYS:HB2	1:152:A:LYS:HD2	2	0.14
(2,4078)	1:152:A:LYS:HB2	1:152:A:LYS:HD2	19	0.14
(2,4058)	1:29:A:LEU:HD13	1:31:A:ILE:HA	5	0.14
(2,4058)	1:29:A:LEU:HD12	1:31:A:ILE:HA	10	0.14
(2,4052)	1:29:A:LEU:HD21	1:57:A:LEU:HG	3	0.14
(2,4052)	1:29:A:LEU:HD23	1:57:A:LEU:HG	19	0.14
(2,4050)	1:29:A:LEU:HD12	1:57:A:LEU:HG	11	0.14
(2,4006)	1:139:A:ARG:HD2	1:139:A:ARG:HB2	9	0.14
(2,3992)	1:100:A:GLN:HG2	1:101:A:LEU:HG	13	0.14
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	4	0.14
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	7	0.14
(2,3976)	1:104:A:ARG:HA	1:104:A:ARG:HG2	18	0.14
(2,3976)	1:104:A:ARG:HA	1:104:A:ARG:HG3	19	0.14
(2,3975)	1:3:A:GLU:HG2	1:3:A:GLU:HB2	14	0.14
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	16	0.14
(2,3974)	1:3:A:GLU:HG2	1:3:A:GLU:HB3	12	0.14
(2,3963)	1:109:A:ILE:HD13	1:107:A:ASP:HB3	16	0.14
(2,3959)	1:109:A:ILE:HD12	1:110:A:PHE:HE1	8	0.14
(2,3959)	1:109:A:ILE:HD13	1:110:A:PHE:HE1	17	0.14
(2,3947)	1:115:A:ILE:HG21	1:36:A:PRO:HG2	11	0.14
(2,3908)	1:119:A:LYS:HD2	1:119:A:LYS:H	3	0.14
(2,3907)	1:119:A:LYS:HE2	1:116:A:GLU:H	9	0.14
(2,3903)	1:120:A:GLN:HG2	1:117:A:GLU:HB3	20	0.14
(2,3894)	1:92:A:LEU:HD23	1:93:A:PRO:HG2	9	0.14
(2,3887)	1:122:A:LEU:HD22	1:125:A:PHE:HD2	5	0.14
(2,3879)	1:123:A:GLU:HG3	1:33:A:VAL:HG23	19	0.14
(2,3877)	1:123:A:GLU:HB3	1:127:A:ASN:HD22	20	0.14
(2,3856)	1:124:A:GLN:HA	1:124:A:GLN:HG2	19	0.14
(2,3849)	1:55:A:THR:HG22	1:29:A:LEU:HD13	3	0.14
(2,3822)	1:158:A:LYS:HG3	1:158:A:LYS:HE2	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	3	0.14
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	4	0.14
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	19	0.14
(2,3770)	1:126:A:ILE:HG21	1:123:A:GLU:H	19	0.14
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	14	0.14
(2,3726)	1:89:A:VAL:HG23	1:78:A:ARG:HA	16	0.14
(2,3715)	1:90:A:PRO:HD3	1:128:A:LYS:HD3	12	0.14
(2,3708)	1:92:A:LEU:HD11	1:78:A:ARG:H	8	0.14
(2,3702)	1:92:A:LEU:HD23	1:75:A:GLU:HG2	7	0.14
(2,3694)	1:150:A:ILE:HD12	1:69:A:ARG:HG3	18	0.14
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD11	19	0.14
(2,3616)	1:32:A:ASP:HB2	1:52:A:ARG:HG3	6	0.14
(2,3568)	1:76:A:TRP:HE1	1:154:A:TYR:HE1	5	0.14
(2,3568)	1:76:A:TRP:HE1	1:154:A:TYR:HE1	12	0.14
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	3	0.14
(2,3530)	1:2:A:ALA:H	1:1:A:THR:HB	20	0.14
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	6	0.14
(2,3520)	1:161:A:HIS:HB3	1:162:A:ALA:H	12	0.14
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD11	9	0.14
(2,3466)	1:136:A:GLN:HE22	1:136:A:GLN:H	13	0.14
(2,3336)	1:106:A:ASP:H	1:107:A:ASP:HB3	16	0.14
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD1	13	0.14
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	2	0.14
(2,3253)	1:55:A:THR:HG21	1:64:A:GLU:H	4	0.14
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	2	0.14
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	4	0.14
(2,3237)	1:55:A:THR:H	1:64:A:GLU:HB2	20	0.14
(2,3199)	1:39:A:VAL:HG13	1:46:A:PHE:H	1	0.14
(2,3119)	1:57:A:LEU:HD23	1:27:A:ASN:HD22	6	0.14
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	1	0.14
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	2	0.14
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	5	0.14
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	9	0.14
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	10	0.14
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	11	0.14
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	12	0.14
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	13	0.14
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	14	0.14
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	15	0.14
(2,3098)	1:56:A:ASN:HD22	1:56:A:ASN:HD21	16	0.14
(2,3000)	1:38:A:THR:HG21	1:39:A:VAL:H	1	0.14
(2,2997)	1:6:A:ALA:H	1:5:A:VAL:HB	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2996)	1:6:A:ALA:HB2	1:6:A:ALA:H	4	0.14
(2,2982)	1:4:A:THR:HG23	1:4:A:THR:H	2	0.14
(2,2885)	1:160:A:ARG:H	1:137:A:ASN:HD22	2	0.14
(2,2805)	1:126:A:ILE:HD11	1:130:A:ALA:H	20	0.14
(2,2761)	1:45:A:ARG:HD3	1:45:A:ARG:H	17	0.14
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	4	0.14
(2,2750)	1:18:A:LEU:H	1:17:A:ASN:HB2	8	0.14
(2,2739)	1:137:A:ASN:H	1:136:A:GLN:HG3	12	0.14
(2,2672)	1:102:A:PRO:HB2	1:103:A:PHE:H	16	0.14
(2,2624)	1:148:A:GLU:H	1:147:A:ASP:HB3	18	0.14
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD22	10	0.14
(2,2521)	1:83:A:ARG:H	1:85:A:SER:HB2	9	0.14
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	20	0.14
(2,2373)	1:33:A:VAL:HG21	1:49:A:TYR:HE1	7	0.14
(2,2370)	1:145:A:LEU:HD22	1:136:A:GLN:HE22	2	0.14
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	2	0.14
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	5	0.14
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	7	0.14
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	9	0.14
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	10	0.14
(2,2321)	1:81:A:LEU:HD22	1:87:A:VAL:HB	20	0.14
(2,2317)	1:74:A:PHE:HB2	1:125:A:PHE:HD2	19	0.14
(2,2307)	1:41:A:VAL:HG21	1:44:A:GLY:H	3	0.14
(2,2284)	1:156:A:PRO:HA	1:76:A:TRP:HH2	7	0.14
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD11	17	0.14
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD12	19	0.14
(2,2232)	1:89:A:VAL:HG13	1:125:A:PHE:HD1	3	0.14
(2,2232)	1:89:A:VAL:HG11	1:125:A:PHE:HD1	8	0.14
(2,2205)	1:65:A:SER:HB2	1:62:A:LEU:HG	6	0.14
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG12	3	0.14
(2,2161)	1:39:A:VAL:HA	1:38:A:THR:HG22	7	0.14
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG23	5	0.14
(2,2149)	1:33:A:VAL:HG11	1:32:A:ASP:H	8	0.14
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	2	0.14
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	7	0.14
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	20	0.14
(2,2121)	1:58:A:PRO:HB2	1:59:A:ILE:HA	1	0.14
(2,2045)	1:51:A:ILE:HG12	1:33:A:VAL:HA	4	0.14
(2,2017)	1:134:A:LEU:HD13	1:137:A:ASN:HB2	16	0.14
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	3	0.14
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	4	0.14
(2,1922)	1:33:A:VAL:HG22	1:33:A:VAL:HA	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1919)	1:33:A:VAL:HG22	1:49:A:TYR:HB2	14	0.14
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG22	12	0.14
(2,1901)	1:116:A:GLU:HG3	1:118:A:ARG:H	13	0.14
(2,1898)	1:115:A:ILE:HG21	1:116:A:GLU:HB2	5	0.14
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	16	0.14
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	19	0.14
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD13	8	0.14
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD11	18	0.14
(2,1769)	1:75:A:GLU:HG2	1:76:A:TRP:H	13	0.14
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	20	0.14
(2,1716)	1:61:A:LYS:HG3	1:61:A:LYS:HB3	15	0.14
(2,1716)	1:61:A:LYS:HG3	1:61:A:LYS:HB3	18	0.14
(2,1700)	1:115:A:ILE:HG23	1:36:A:PRO:HD2	10	0.14
(2,1700)	1:115:A:ILE:HG21	1:36:A:PRO:HD2	11	0.14
(2,1696)	1:115:A:ILE:HG21	1:36:A:PRO:HG2	9	0.14
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	8	0.14
(2,1679)	1:126:A:ILE:HG23	1:31:A:ILE:HG23	13	0.14
(2,1679)	1:126:A:ILE:HG23	1:31:A:ILE:HG21	16	0.14
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	3	0.14
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	10	0.14
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	15	0.14
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	17	0.14
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	19	0.14
(2,1634)	1:156:A:PRO:HA	1:154:A:TYR:HE2	4	0.14
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	8	0.14
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG23	3	0.14
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG21	13	0.14
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG21	16	0.14
(2,1609)	1:50:A:GLU:HG3	1:35:A:ASN:HB3	3	0.14
(2,1609)	1:50:A:GLU:HG3	1:35:A:ASN:HB3	16	0.14
(2,1511)	1:59:A:ILE:HG22	1:57:A:LEU:HG	8	0.14
(2,1499)	1:57:A:LEU:HD21	1:58:A:PRO:HD3	20	0.14
(2,1464)	1:133:A:PRO:HD3	1:132:A:HIS:H	15	0.14
(2,1432)	1:149:A:ILE:HB	1:148:A:GLU:H	17	0.14
(2,1406)	1:39:A:VAL:HG22	1:39:A:VAL:HA	8	0.14
(2,1406)	1:39:A:VAL:HG22	1:39:A:VAL:HA	11	0.14
(2,1406)	1:39:A:VAL:HG22	1:39:A:VAL:HA	15	0.14
(2,1370)	1:21:A:ALA:HB3	1:20:A:ASP:H	5	0.14
(2,1347)	1:51:A:ILE:HG23	1:53:A:VAL:HG11	3	0.14
(2,1339)	1:59:A:ILE:HG21	1:58:A:PRO:HD3	10	0.14
(2,1326)	1:12:A:ILE:HG22	1:13:A:THR:HA	16	0.14
(2,1324)	1:12:A:ILE:HG21	1:12:A:ILE:HB	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1319)	1:149:A:ILE:HG22	1:149:A:ILE:HB	1	0.14
(2,1319)	1:149:A:ILE:HG21	1:149:A:ILE:HB	6	0.14
(2,1319)	1:149:A:ILE:HG21	1:149:A:ILE:HB	13	0.14
(2,1319)	1:149:A:ILE:HG23	1:149:A:ILE:HB	16	0.14
(2,1319)	1:149:A:ILE:HG23	1:149:A:ILE:HB	17	0.14
(2,1309)	1:149:A:ILE:HG21	1:150:A:ILE:H	9	0.14
(2,1299)	1:51:A:ILE:HD13	1:33:A:VAL:HB	15	0.14
(2,1249)	1:101:A:LEU:HB3	1:101:A:LEU:H	20	0.14
(2,1203)	1:29:A:LEU:HD23	1:31:A:ILE:HD12	4	0.14
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	9	0.14
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	10	0.14
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	11	0.14
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	13	0.14
(2,1148)	1:122:A:LEU:HB2	1:123:A:GLU:HA	10	0.14
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	3	0.14
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	4	0.14
(2,1137)	1:59:A:ILE:HD11	1:59:A:ILE:HB	13	0.14
(2,1128)	1:152:A:LYS:HE2	1:152:A:LYS:H	2	0.14
(2,1127)	1:152:A:LYS:HE3	1:152:A:LYS:HA	18	0.14
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	3	0.14
(2,1126)	1:152:A:LYS:HE2	1:152:A:LYS:HA	9	0.14
(2,1107)	1:12:A:ILE:HD11	1:12:A:ILE:HG13	7	0.14
(2,1107)	1:12:A:ILE:HD12	1:12:A:ILE:HG13	9	0.14
(2,1107)	1:12:A:ILE:HD13	1:12:A:ILE:HG13	10	0.14
(2,1107)	1:12:A:ILE:HD12	1:12:A:ILE:HG13	15	0.14
(2,1107)	1:12:A:ILE:HD12	1:12:A:ILE:HG13	17	0.14
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	12	0.14
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	14	0.14
(2,1063)	1:159:A:ILE:HD13	1:142:A:HIS:HB3	8	0.14
(2,1056)	1:159:A:ILE:HD12	1:139:A:ARG:H	12	0.14
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	17	0.14
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	5	0.14
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	10	0.14
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	11	0.14
(2,948)	1:16:A:GLN:HB2	1:16:A:GLN:HA	4	0.14
(2,948)	1:16:A:GLN:HB2	1:16:A:GLN:HA	11	0.14
(2,877)	1:115:A:ILE:HG21	1:47:A:THR:HG21	16	0.14
(2,855)	1:115:A:ILE:HG23	1:112:A:ASP:HA	14	0.14
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	1	0.14
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	4	0.14
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	6	0.14
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	14	0.14
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	15	0.14
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	17	0.14
(2,798)	1:118:A:ARG:HA	1:122:A:LEU:HD22	17	0.14
(2,754)	1:119:A:LYS:HA	1:122:A:LEU:HD21	10	0.14
(2,712)	1:124:A:GLN:HG3	1:123:A:GLU:H	19	0.14
(2,687)	1:82:A:GLU:HG2	1:83:A:ARG:H	8	0.14
(2,681)	1:159:A:ILE:HG21	1:159:A:ILE:HB	9	0.14
(2,681)	1:159:A:ILE:HG22	1:159:A:ILE:HB	17	0.14
(2,673)	1:55:A:THR:HG22	1:62:A:LEU:H	5	0.14
(2,623)	1:129:A:VAL:HG21	1:130:A:ALA:HB3	8	0.14
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG23	15	0.14
(2,598)	1:129:A:VAL:HG11	1:125:A:PHE:HD1	2	0.14
(2,568)	1:143:A:MET:HG2	1:150:A:ILE:HA	18	0.14
(2,549)	1:143:A:MET:HE2	1:150:A:ILE:HG12	5	0.14
(2,540)	1:143:A:MET:HE3	1:76:A:TRP:HZ2	11	0.14
(2,531)	1:143:A:MET:HE2	1:154:A:TYR:HB2	8	0.14
(2,530)	1:143:A:MET:HE1	1:150:A:ILE:HA	7	0.14
(2,530)	1:143:A:MET:HE3	1:150:A:ILE:HA	12	0.14
(2,525)	1:122:A:LEU:HD11	1:122:A:LEU:H	1	0.14
(2,516)	1:122:A:LEU:HD12	1:92:A:LEU:HA	6	0.14
(2,516)	1:122:A:LEU:HD12	1:92:A:LEU:HA	9	0.14
(2,516)	1:122:A:LEU:HD13	1:92:A:LEU:HA	12	0.14
(2,455)	1:48:A:THR:HG21	1:49:A:TYR:H	6	0.14
(2,455)	1:48:A:THR:HG22	1:49:A:TYR:H	11	0.14
(2,452)	1:141:A:LEU:HD13	1:130:A:ALA:HA	6	0.14
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG12	19	0.14
(2,372)	1:89:A:VAL:HG11	1:81:A:LEU:HB2	7	0.14
(2,362)	1:89:A:VAL:HG23	1:87:A:VAL:H	17	0.14
(2,351)	1:42:A:GLY:HA3	1:41:A:VAL:HG12	12	0.14
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	16	0.14
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	20	0.14
(2,311)	1:92:A:LEU:HD11	1:92:A:LEU:H	9	0.14
(2,310)	1:92:A:LEU:HD22	1:92:A:LEU:H	9	0.14
(2,306)	1:92:A:LEU:HD23	1:75:A:GLU:H	19	0.14
(2,272)	1:22:A:TYR:HB2	1:28:A:PHE:HD2	1	0.14
(2,251)	1:150:A:ILE:HG21	1:154:A:TYR:HE1	14	0.14
(2,213)	1:158:A:LYS:HB3	1:137:A:ASN:HD21	16	0.14
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG23	16	0.14
(2,156)	1:66:A:THR:HG22	1:50:A:GLU:HG3	15	0.14
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	6	0.14
(2,125)	1:127:A:ASN:HA	1:127:A:ASN:HD22	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	2	0.14
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	6	0.14
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	8	0.14
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	13	0.14
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG21	20	0.14
(2,60)	1:81:A:LEU:HA	1:85:A:SER:HB2	9	0.14
(2,33)	1:27:A:ASN:HA	1:56:A:ASN:HD21	3	0.14
(2,25)	1:43:A:ARG:HA	1:43:A:ARG:HG3	11	0.14
(1,21)	1:74:A:PHE:H	1:70:A:ARG:O	18	0.14
(2,4983)	1:80:A:GLU:H	1:125:A:PHE:HZ	10	0.13
(2,4967)	1:76:A:TRP:HE1	1:76:A:TRP:HA	6	0.13
(2,4931)	1:139:A:ARG:H	1:141:A:LEU:HD12	2	0.13
(2,4931)	1:139:A:ARG:H	1:141:A:LEU:HD12	12	0.13
(2,4905)	1:126:A:ILE:H	1:51:A:ILE:HG13	12	0.13
(2,4850)	1:84:A:GLU:HB3	1:84:A:GLU:H	5	0.13
(2,4847)	1:76:A:TRP:H	1:144:A:PHE:HZ	7	0.13
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD13	11	0.13
(2,4816)	1:81:A:LEU:HD13	1:81:A:LEU:H	2	0.13
(2,4807)	1:57:A:LEU:H	1:22:A:TYR:HD1	17	0.13
(2,4784)	1:23:A:GLY:H	1:24:A:PRO:HG2	7	0.13
(2,4765)	1:8:A:THR:H	1:9:A:ARG:HB2	7	0.13
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	12	0.13
(2,4719)	1:151:A:ASP:HB2	1:152:A:LYS:H	2	0.13
(2,4719)	1:151:A:ASP:HB2	1:152:A:LYS:H	10	0.13
(2,4718)	1:105:A:GLY:H	1:106:A:ASP:H	12	0.13
(2,4715)	1:105:A:GLY:H	1:104:A:ARG:HG2	18	0.13
(2,4709)	1:60:A:PHE:H	1:58:A:PRO:HB2	4	0.13
(2,4682)	1:81:A:LEU:HD23	1:137:A:ASN:H	9	0.13
(2,4681)	1:141:A:LEU:HD22	1:137:A:ASN:H	7	0.13
(2,4681)	1:141:A:LEU:HD21	1:137:A:ASN:H	12	0.13
(2,4681)	1:141:A:LEU:HD22	1:137:A:ASN:H	13	0.13
(2,4681)	1:141:A:LEU:HD21	1:137:A:ASN:H	16	0.13
(2,4681)	1:141:A:LEU:HD22	1:137:A:ASN:H	18	0.13
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	12	0.13
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	12	0.13
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB3	17	0.13
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	18	0.13
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	6	0.13
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	9	0.13
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	14	0.13
(2,4631)	1:104:A:ARG:H	1:103:A:PHE:HB2	4	0.13
(2,4619)	1:85:A:SER:H	1:83:A:ARG:HG2	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4615)	1:84:A:GLU:H	1:82:A:GLU:H	1	0.13
(2,4615)	1:84:A:GLU:H	1:82:A:GLU:H	9	0.13
(2,4592)	1:20:A:ASP:HB3	1:21:A:ALA:H	12	0.13
(2,4574)	1:88:A:VAL:HG22	1:90:A:PRO:HD2	6	0.13
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	4	0.13
(2,4547)	1:148:A:GLU:HG3	1:67:A:VAL:HG12	16	0.13
(2,4546)	1:129:A:VAL:HG12	1:130:A:ALA:HA	7	0.13
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	4	0.13
(2,4518)	1:115:A:ILE:HD11	1:113:A:ASN:H	13	0.13
(2,4498)	1:137:A:ASN:HB2	1:138:A:GLU:HG2	1	0.13
(2,4462)	1:62:A:LEU:HD12	1:61:A:LYS:HA	4	0.13
(2,4441)	1:33:A:VAL:HG11	1:122:A:LEU:H	5	0.13
(2,4432)	1:30:A:GLU:HB3	1:28:A:PHE:HE1	6	0.13
(2,4430)	1:26:A:SER:HB2	1:26:A:SER:HA	13	0.13
(2,4406)	1:3:A:GLU:HA	1:3:A:GLU:HG2	3	0.13
(2,4391)	1:78:A:ARG:HG3	1:81:A:LEU:HD13	4	0.13
(2,4375)	1:43:A:ARG:HB3	1:43:A:ARG:HD3	20	0.13
(2,4374)	1:43:A:ARG:HB2	1:43:A:ARG:HD2	11	0.13
(2,4351)	1:81:A:LEU:HD12	1:89:A:VAL:HG23	2	0.13
(2,4327)	1:33:A:VAL:HG23	1:122:A:LEU:H	3	0.13
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	4	0.13
(2,4296)	1:87:A:VAL:HA	1:88:A:VAL:HG21	4	0.13
(2,4291)	1:64:A:GLU:HG3	1:54:A:LYS:HE3	1	0.13
(2,4281)	1:85:A:SER:HB2	1:86:A:LYS:HA	12	0.13
(2,4269)	1:68:A:ARG:HG2	1:68:A:ARG:HD3	7	0.13
(2,4247)	1:12:A:ILE:HB	1:13:A:THR:HA	8	0.13
(2,4247)	1:12:A:ILE:HB	1:13:A:THR:HA	18	0.13
(2,4243)	1:34:A:SER:HB3	1:32:A:ASP:HB3	9	0.13
(2,4240)	1:31:A:ILE:HG21	1:52:A:ARG:HB2	11	0.13
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	3	0.13
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	17	0.13
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	1	0.13
(2,4208)	1:158:A:LYS:HD2	1:158:A:LYS:HG3	5	0.13
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	16	0.13
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	14	0.13
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	16	0.13
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	18	0.13
(2,4202)	1:159:A:ILE:HG22	1:160:A:ARG:HD3	6	0.13
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD3	1	0.13
(2,4199)	1:160:A:ARG:HA	1:160:A:ARG:HD2	13	0.13
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	9	0.13
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG2	11	0.13
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG3	18	0.13
(2,4137)	1:137:A:ASN:HB3	1:158:A:LYS:HB2	5	0.13
(2,4127)	1:149:A:ILE:HG23	1:149:A:ILE:HB	20	0.13
(2,4112)	1:81:A:LEU:HD13	1:135:A:ALA:HB2	12	0.13
(2,4095)	1:59:A:ILE:HG23	1:137:A:ASN:H	16	0.13
(2,4090)	1:31:A:ILE:HD12	1:31:A:ILE:HG13	1	0.13
(2,4090)	1:31:A:ILE:HD11	1:31:A:ILE:HG13	6	0.13
(2,4090)	1:31:A:ILE:HD11	1:31:A:ILE:HG13	8	0.13
(2,4090)	1:31:A:ILE:HD11	1:31:A:ILE:HG13	11	0.13
(2,4090)	1:31:A:ILE:HD12	1:31:A:ILE:HG13	16	0.13
(2,4082)	1:126:A:ILE:HD11	1:129:A:VAL:H	1	0.13
(2,4078)	1:152:A:LYS:HB2	1:152:A:LYS:HD2	12	0.13
(2,4058)	1:29:A:LEU:HD11	1:31:A:ILE:HA	8	0.13
(2,4058)	1:29:A:LEU:HD12	1:31:A:ILE:HA	19	0.13
(2,4052)	1:29:A:LEU:HD23	1:57:A:LEU:HG	1	0.13
(2,4052)	1:29:A:LEU:HD22	1:57:A:LEU:HG	6	0.13
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD11	12	0.13
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	9	0.13
(2,3987)	1:26:A:SER:HB2	1:27:A:ASN:HB3	18	0.13
(2,3985)	1:104:A:ARG:HG3	1:104:A:ARG:H	12	0.13
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	2	0.13
(2,3978)	1:99:A:ARG:HB3	1:99:A:ARG:HB2	3	0.13
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	5	0.13
(2,3978)	1:99:A:ARG:HB3	1:99:A:ARG:HB2	8	0.13
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	10	0.13
(2,3978)	1:99:A:ARG:HB3	1:99:A:ARG:HB2	11	0.13
(2,3978)	1:99:A:ARG:HB3	1:99:A:ARG:HB2	13	0.13
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	14	0.13
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	15	0.13
(2,3978)	1:99:A:ARG:HB3	1:99:A:ARG:HB2	16	0.13
(2,3978)	1:99:A:ARG:HB3	1:99:A:ARG:HB2	17	0.13
(2,3978)	1:99:A:ARG:HB3	1:99:A:ARG:HB2	18	0.13
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	19	0.13
(2,3978)	1:99:A:ARG:HB3	1:99:A:ARG:HB2	20	0.13
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	7	0.13
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	12	0.13
(2,3974)	1:3:A:GLU:HG2	1:3:A:GLU:HB3	7	0.13
(2,3974)	1:3:A:GLU:HG2	1:3:A:GLU:HB3	16	0.13
(2,3963)	1:109:A:ILE:HD13	1:107:A:ASP:HB3	13	0.13
(2,3940)	1:115:A:ILE:HD11	1:109:A:ILE:HA	8	0.13
(2,3911)	1:119:A:LYS:HE3	1:119:A:LYS:HA	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3907)	1:119:A:LYS:HE3	1:116:A:GLU:H	14	0.13
(2,3901)	1:120:A:GLN:HB2	1:121:A:GLY:H	5	0.13
(2,3883)	1:61:A:LYS:HG3	1:61:A:LYS:HD2	10	0.13
(2,3882)	1:119:A:LYS:HA	1:33:A:VAL:HB	14	0.13
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	4	0.13
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	10	0.13
(2,3849)	1:53:A:VAL:HG23	1:55:A:THR:HG23	9	0.13
(2,3847)	1:159:A:ILE:HG21	1:136:A:GLN:HB2	8	0.13
(2,3847)	1:159:A:ILE:HG22	1:136:A:GLN:HB2	13	0.13
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	5	0.13
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	10	0.13
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	13	0.13
(2,3783)	1:143:A:MET:HE2	1:143:A:MET:HB2	19	0.13
(2,3770)	1:126:A:ILE:HG22	1:123:A:GLU:H	8	0.13
(2,3770)	1:126:A:ILE:HG23	1:123:A:GLU:H	17	0.13
(2,3763)	1:53:A:VAL:HG22	1:64:A:GLU:HB3	19	0.13
(2,3757)	1:47:A:THR:HG21	1:115:A:ILE:HA	15	0.13
(2,3740)	1:87:A:VAL:HG22	1:86:A:LYS:H	15	0.13
(2,3739)	1:87:A:VAL:HB	1:82:A:GLU:H	16	0.13
(2,3688)	1:150:A:ILE:HD11	1:77:A:LEU:H	20	0.13
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD11	12	0.13
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG3	3	0.13
(2,3656)	1:66:A:THR:HB	1:50:A:GLU:HG3	11	0.13
(2,3605)	1:61:A:LYS:H	1:22:A:TYR:HE1	18	0.13
(2,3568)	1:76:A:TRP:HE1	1:154:A:TYR:HE1	19	0.13
(2,3539)	1:100:A:GLN:HE21	1:100:A:GLN:HA	3	0.13
(2,3537)	1:100:A:GLN:HE21	1:100:A:GLN:HB2	6	0.13
(2,3517)	1:157:A:SER:H	1:154:A:TYR:HD2	13	0.13
(2,3503)	1:142:A:HIS:H	1:143:A:MET:HE3	17	0.13
(2,3471)	1:137:A:ASN:HD21	1:134:A:LEU:HD12	5	0.13
(2,3419)	1:124:A:GLN:HE21	1:123:A:GLU:HG3	19	0.13
(2,3347)	1:107:A:ASP:H	1:105:A:GLY:HA2	6	0.13
(2,3287)	1:73:A:ASP:H	1:71:A:TYR:HD1	8	0.13
(2,3284)	1:68:A:ARG:H	1:50:A:GLU:HG2	7	0.13
(2,3284)	1:68:A:ARG:H	1:50:A:GLU:HG2	14	0.13
(2,3235)	1:54:A:LYS:H	1:31:A:ILE:HD11	10	0.13
(2,3090)	1:23:A:GLY:H	1:21:A:ALA:HB2	14	0.13
(2,3089)	1:23:A:GLY:H	1:27:A:ASN:HB2	15	0.13
(2,3036)	1:13:A:THR:H	1:12:A:ILE:HB	5	0.13
(2,3000)	1:38:A:THR:HG21	1:39:A:VAL:H	14	0.13
(2,2971)	1:2:A:ALA:H	1:1:A:THR:HG21	14	0.13
(2,2885)	1:160:A:ARG:H	1:137:A:ASN:HD22	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2885)	1:160:A:ARG:H	1:137:A:ASN:HD22	20	0.13
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	1	0.13
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	13	0.13
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	20	0.13
(2,2761)	1:45:A:ARG:HD3	1:45:A:ARG:H	20	0.13
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG21	8	0.13
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG21	20	0.13
(2,2628)	1:148:A:GLU:H	1:149:A:ILE:H	14	0.13
(2,2589)	1:158:A:LYS:HB2	1:159:A:ILE:H	10	0.13
(2,2535)	1:85:A:SER:HB3	1:85:A:SER:H	8	0.13
(2,2535)	1:85:A:SER:HB3	1:85:A:SER:H	17	0.13
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	9	0.13
(2,2444)	1:67:A:VAL:HG12	1:68:A:ARG:H	11	0.13
(2,2428)	1:20:A:ASP:H	1:19:A:ASN:HB3	6	0.13
(2,2428)	1:20:A:ASP:H	1:19:A:ASN:HB3	18	0.13
(2,2423)	1:21:A:ALA:H	1:22:A:TYR:HD1	17	0.13
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	16	0.13
(2,2307)	1:41:A:VAL:HG22	1:44:A:GLY:H	7	0.13
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG23	2	0.13
(2,2288)	1:162:A:ALA:HB3	1:161:A:HIS:HB2	2	0.13
(2,2267)	1:135:A:ALA:HB2	1:136:A:GLN:HG3	1	0.13
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD13	15	0.13
(2,2222)	1:78:A:ARG:HG2	1:92:A:LEU:HD11	16	0.13
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG21	2	0.13
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG23	8	0.13
(2,2149)	1:33:A:VAL:HG13	1:32:A:ASP:H	9	0.13
(2,2131)	1:29:A:LEU:HD22	1:136:A:GLN:HE21	11	0.13
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	4	0.13
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	18	0.13
(2,2064)	1:33:A:VAL:HB	1:123:A:GLU:H	13	0.13
(2,2064)	1:33:A:VAL:HB	1:123:A:GLU:H	19	0.13
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	2	0.13
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	12	0.13
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	13	0.13
(2,1965)	1:149:A:ILE:HD11	1:150:A:ILE:HA	5	0.13
(2,1929)	1:141:A:LEU:HD22	1:138:A:GLU:H	13	0.13
(2,1929)	1:141:A:LEU:HD21	1:138:A:GLU:H	16	0.13
(2,1922)	1:33:A:VAL:HG23	1:33:A:VAL:HA	15	0.13
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG23	3	0.13
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG21	17	0.13
(2,1901)	1:116:A:GLU:HG3	1:118:A:ARG:H	7	0.13
(2,1866)	1:98:A:LEU:HD23	1:94:A:GLY:HA3	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG22	3	0.13
(2,1813)	1:86:A:LYS:HG3	1:86:A:LYS:HA	2	0.13
(2,1813)	1:86:A:LYS:HG3	1:86:A:LYS:HA	20	0.13
(2,1791)	1:83:A:ARG:HD2	1:83:A:ARG:H	11	0.13
(2,1791)	1:83:A:ARG:HD2	1:83:A:ARG:H	18	0.13
(2,1784)	1:83:A:ARG:HG3	1:84:A:GLU:H	15	0.13
(2,1784)	1:83:A:ARG:HG3	1:84:A:GLU:H	18	0.13
(2,1769)	1:75:A:GLU:HG2	1:76:A:TRP:H	3	0.13
(2,1769)	1:75:A:GLU:HG2	1:76:A:TRP:H	5	0.13
(2,1769)	1:75:A:GLU:HG2	1:76:A:TRP:H	20	0.13
(2,1750)	1:80:A:GLU:HA	1:84:A:GLU:H	9	0.13
(2,1743)	1:22:A:TYR:HB3	1:56:A:ASN:HD21	12	0.13
(2,1709)	1:20:A:ASP:HA	1:21:A:ALA:HB2	7	0.13
(2,1709)	1:20:A:ASP:HA	1:21:A:ALA:HB3	14	0.13
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	15	0.13
(2,1692)	1:34:A:SER:HB3	1:119:A:LYS:HD3	7	0.13
(2,1692)	1:34:A:SER:HB3	1:119:A:LYS:HD3	11	0.13
(2,1692)	1:34:A:SER:HB3	1:119:A:LYS:HD3	18	0.13
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG21	15	0.13
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	2	0.13
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	6	0.13
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	8	0.13
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	12	0.13
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	13	0.13
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	14	0.13
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	20	0.13
(2,1590)	1:129:A:VAL:HG22	1:141:A:LEU:HD11	20	0.13
(2,1538)	1:41:A:VAL:HA	1:45:A:ARG:HB2	12	0.13
(2,1516)	1:57:A:LEU:HD13	1:57:A:LEU:HD23	3	0.13
(2,1511)	1:59:A:ILE:HG22	1:57:A:LEU:HG	9	0.13
(2,1499)	1:57:A:LEU:HD21	1:58:A:PRO:HD3	7	0.13
(2,1499)	1:57:A:LEU:HD22	1:58:A:PRO:HD3	9	0.13
(2,1499)	1:57:A:LEU:HD21	1:58:A:PRO:HD3	15	0.13
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	1	0.13
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	4	0.13
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	5	0.13
(2,1450)	1:90:A:PRO:HD3	1:128:A:LYS:HB3	8	0.13
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG21	1	0.13
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG23	4	0.13
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG23	7	0.13
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG22	10	0.13
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG22	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG22	16	0.13
(2,1406)	1:39:A:VAL:HG21	1:39:A:VAL:HA	4	0.13
(2,1406)	1:39:A:VAL:HG23	1:39:A:VAL:HA	5	0.13
(2,1406)	1:39:A:VAL:HG23	1:39:A:VAL:HA	7	0.13
(2,1406)	1:39:A:VAL:HG22	1:39:A:VAL:HA	9	0.13
(2,1406)	1:39:A:VAL:HG22	1:39:A:VAL:HA	13	0.13
(2,1387)	1:41:A:VAL:HG23	1:41:A:VAL:HA	7	0.13
(2,1387)	1:41:A:VAL:HG21	1:41:A:VAL:HA	13	0.13
(2,1341)	1:57:A:LEU:HB2	1:59:A:ILE:HG21	11	0.13
(2,1326)	1:12:A:ILE:HG21	1:13:A:THR:HA	9	0.13
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG21	14	0.13
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG22	16	0.13
(2,1319)	1:149:A:ILE:HG23	1:149:A:ILE:HB	8	0.13
(2,1319)	1:149:A:ILE:HG22	1:149:A:ILE:HB	14	0.13
(2,1286)	1:51:A:ILE:HD11	1:144:A:PHE:HE1	17	0.13
(2,1263)	1:152:A:LYS:HB3	1:76:A:TRP:HE1	13	0.13
(2,1263)	1:152:A:LYS:HB3	1:76:A:TRP:HE1	15	0.13
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD11	6	0.13
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	3	0.13
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	18	0.13
(2,1128)	1:152:A:LYS:HE2	1:152:A:LYS:H	7	0.13
(2,1128)	1:152:A:LYS:HE2	1:152:A:LYS:H	9	0.13
(2,1113)	1:149:A:ILE:HD13	1:149:A:ILE:HB	1	0.13
(2,1107)	1:12:A:ILE:HD11	1:12:A:ILE:HG13	4	0.13
(2,1107)	1:12:A:ILE:HD11	1:12:A:ILE:HG13	5	0.13
(2,1107)	1:12:A:ILE:HD11	1:12:A:ILE:HG13	8	0.13
(2,1107)	1:12:A:ILE:HD12	1:12:A:ILE:HG13	14	0.13
(2,1107)	1:12:A:ILE:HD12	1:12:A:ILE:HG13	16	0.13
(2,1100)	1:11:A:LEU:HB3	1:11:A:LEU:H	8	0.13
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	7	0.13
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	7	0.13
(2,1056)	1:159:A:ILE:HD13	1:139:A:ARG:H	1	0.13
(2,1056)	1:159:A:ILE:HD11	1:139:A:ARG:H	9	0.13
(2,1032)	1:148:A:GLU:HG3	1:67:A:VAL:HG12	16	0.13
(2,996)	1:101:A:LEU:HD23	1:101:A:LEU:HG	14	0.13
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD21	1	0.13
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD21	14	0.13
(2,985)	1:102:A:PRO:HD3	1:101:A:LEU:HB2	9	0.13
(2,956)	1:148:A:GLU:HB2	1:148:A:GLU:H	6	0.13
(2,956)	1:148:A:GLU:HB2	1:148:A:GLU:H	14	0.13
(2,948)	1:16:A:GLN:HB2	1:16:A:GLN:HA	2	0.13
(2,948)	1:16:A:GLN:HB2	1:16:A:GLN:HA	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,948)	1:16:A:GLN:HB2	1:16:A:GLN:HA	12	0.13
(2,948)	1:16:A:GLN:HB2	1:16:A:GLN:HA	15	0.13
(2,948)	1:16:A:GLN:HB2	1:16:A:GLN:HA	16	0.13
(2,948)	1:16:A:GLN:HB2	1:16:A:GLN:HA	17	0.13
(2,948)	1:16:A:GLN:HB2	1:16:A:GLN:HA	18	0.13
(2,918)	1:109:A:ILE:HG22	1:114:A:PHE:HE2	10	0.13
(2,897)	1:113:A:ASN:HB2	1:117:A:GLU:HG3	1	0.13
(2,896)	1:113:A:ASN:HB2	1:117:A:GLU:HG2	9	0.13
(2,821)	1:117:A:GLU:HG3	1:117:A:GLU:H	8	0.13
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	3	0.13
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	9	0.13
(2,798)	1:118:A:ARG:HA	1:122:A:LEU:HD21	1	0.13
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	6	0.13
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	9	0.13
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	18	0.13
(2,681)	1:159:A:ILE:HG23	1:159:A:ILE:HB	4	0.13
(2,681)	1:159:A:ILE:HG21	1:159:A:ILE:HB	7	0.13
(2,681)	1:159:A:ILE:HG21	1:159:A:ILE:HB	11	0.13
(2,681)	1:159:A:ILE:HG22	1:159:A:ILE:HB	19	0.13
(2,673)	1:55:A:THR:HG23	1:62:A:LEU:H	20	0.13
(2,645)	1:128:A:LYS:HA	1:130:A:ALA:H	1	0.13
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB2	14	0.13
(2,612)	1:130:A:ALA:HA	1:129:A:VAL:HG21	16	0.13
(2,598)	1:129:A:VAL:HG11	1:125:A:PHE:HD1	3	0.13
(2,598)	1:129:A:VAL:HG13	1:125:A:PHE:HD1	18	0.13
(2,540)	1:143:A:MET:HE1	1:76:A:TRP:HZ2	14	0.13
(2,540)	1:143:A:MET:HE3	1:76:A:TRP:HZ2	18	0.13
(2,540)	1:143:A:MET:HE1	1:76:A:TRP:HZ2	20	0.13
(2,539)	1:143:A:MET:HE1	1:154:A:TYR:H	16	0.13
(2,526)	1:122:A:LEU:HD13	1:75:A:GLU:H	2	0.13
(2,526)	1:122:A:LEU:HD13	1:75:A:GLU:H	9	0.13
(2,514)	1:122:A:LEU:HD13	1:122:A:LEU:HB2	20	0.13
(2,466)	1:47:A:THR:HG23	1:49:A:TYR:HE1	4	0.13
(2,457)	1:48:A:THR:HG23	1:46:A:PHE:HE2	7	0.13
(2,417)	1:87:A:VAL:HG21	1:132:A:HIS:HD2	18	0.13
(2,397)	1:134:A:LEU:HG	1:87:A:VAL:H	2	0.13
(2,397)	1:134:A:LEU:HG	1:87:A:VAL:H	14	0.13
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG13	4	0.13
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG11	11	0.13
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG12	13	0.13
(2,391)	1:90:A:PRO:HB3	1:91:A:PRO:HD3	3	0.13
(2,357)	1:89:A:VAL:HG13	1:125:A:PHE:HZ	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,247)	1:150:A:ILE:HG22	1:76:A:TRP:HZ2	18	0.13
(2,241)	1:150:A:ILE:HG22	1:151:A:ASP:H	1	0.13
(2,241)	1:150:A:ILE:HG23	1:151:A:ASP:H	10	0.13
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG22	18	0.13
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG21	20	0.13
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG21	1	0.13
(2,151)	1:66:A:THR:HG23	1:50:A:GLU:H	20	0.13
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	10	0.13
(2,119)	1:142:A:HIS:HA	1:144:A:PHE:H	17	0.13
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	10	0.13
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	14	0.13
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	20	0.13
(2,52)	1:83:A:ARG:HA	1:83:A:ARG:HD2	6	0.13
(2,15)	1:32:A:ASP:HB2	1:52:A:ARG:HB3	4	0.13
(2,15)	1:32:A:ASP:HB2	1:52:A:ARG:HB3	11	0.13
(2,8)	1:131:A:GLY:HA3	1:136:A:GLN:HE21	3	0.13
(2,8)	1:131:A:GLY:HA3	1:136:A:GLN:HE21	15	0.13
(2,4968)	1:152:A:LYS:HD2	1:76:A:TRP:HE1	13	0.12
(2,4967)	1:76:A:TRP:HE1	1:76:A:TRP:HA	5	0.12
(2,4967)	1:76:A:TRP:HE1	1:76:A:TRP:HA	12	0.12
(2,4955)	1:100:A:GLN:HE22	1:101:A:LEU:HD21	4	0.12
(2,4931)	1:139:A:ARG:H	1:141:A:LEU:HD12	16	0.12
(2,4931)	1:139:A:ARG:H	1:159:A:ILE:HG23	17	0.12
(2,4886)	1:120:A:GLN:HE21	1:117:A:GLU:HB3	13	0.12
(2,4884)	1:116:A:GLU:HG2	1:120:A:GLN:HE21	17	0.12
(2,4853)	1:100:A:GLN:HG2	1:100:A:GLN:H	7	0.12
(2,4838)	1:65:A:SER:H	1:55:A:THR:HG22	12	0.12
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	6	0.12
(2,4836)	1:65:A:SER:H	1:54:A:LYS:HB2	11	0.12
(2,4830)	1:58:A:PRO:HB3	1:59:A:ILE:H	1	0.12
(2,4784)	1:23:A:GLY:H	1:24:A:PRO:HG2	12	0.12
(2,4771)	1:10:A:ARG:H	1:9:A:ARG:HB3	2	0.12
(2,4770)	1:10:A:ARG:H	1:10:A:ARG:HG2	19	0.12
(2,4760)	1:5:A:VAL:HG13	1:4:A:THR:H	8	0.12
(2,4741)	1:5:A:VAL:HG23	1:5:A:VAL:H	6	0.12
(2,4722)	1:161:A:HIS:HA	1:160:A:ARG:H	15	0.12
(2,4721)	1:160:A:ARG:H	1:158:A:LYS:HE3	16	0.12
(2,4719)	1:151:A:ASP:HB2	1:152:A:LYS:H	11	0.12
(2,4711)	1:60:A:PHE:H	1:60:A:PHE:HZ	4	0.12
(2,4675)	1:119:A:LYS:HE3	1:120:A:GLN:HE22	20	0.12
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	11	0.12
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	6	0.12
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	3	0.12
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	10	0.12
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	14	0.12
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	12	0.12
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	19	0.12
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	9	0.12
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	11	0.12
(2,4630)	1:7:A:ASP:H	1:5:A:VAL:HG12	17	0.12
(2,4615)	1:84:A:GLU:H	1:82:A:GLU:H	19	0.12
(2,4585)	1:95:A:LYS:HB2	1:95:A:LYS:HE2	20	0.12
(2,4574)	1:88:A:VAL:HG22	1:90:A:PRO:HD2	11	0.12
(2,4569)	1:104:A:ARG:HB2	1:104:A:ARG:HG2	19	0.12
(2,4549)	1:160:A:ARG:HD2	1:159:A:ILE:HG12	17	0.12
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	3	0.12
(2,4546)	1:129:A:VAL:HG12	1:130:A:ALA:HA	9	0.12
(2,4546)	1:129:A:VAL:HG11	1:130:A:ALA:HA	15	0.12
(2,4546)	1:129:A:VAL:HG13	1:130:A:ALA:HA	17	0.12
(2,4524)	1:99:A:ARG:HD2	1:98:A:LEU:HD23	4	0.12
(2,4498)	1:137:A:ASN:HB2	1:138:A:GLU:HG2	7	0.12
(2,4450)	1:49:A:TYR:HA	1:50:A:GLU:HB2	10	0.12
(2,4441)	1:33:A:VAL:HG12	1:122:A:LEU:H	16	0.12
(2,4430)	1:26:A:SER:HB2	1:26:A:SER:HA	8	0.12
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD22	7	0.12
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD23	11	0.12
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD23	17	0.12
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD23	20	0.12
(2,4407)	1:14:A:LYS:HA	1:14:A:LYS:HG2	16	0.12
(2,4400)	1:78:A:ARG:HD2	1:91:A:PRO:HB3	6	0.12
(2,4375)	1:43:A:ARG:HB3	1:43:A:ARG:HD3	1	0.12
(2,4363)	1:5:A:VAL:HG22	1:5:A:VAL:HB	4	0.12
(2,4327)	1:33:A:VAL:HG21	1:122:A:LEU:H	14	0.12
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	16	0.12
(2,4310)	1:10:A:ARG:HG3	1:10:A:ARG:HD2	20	0.12
(2,4308)	1:99:A:ARG:HD3	1:99:A:ARG:HA	3	0.12
(2,4308)	1:99:A:ARG:HD3	1:99:A:ARG:HA	8	0.12
(2,4308)	1:99:A:ARG:HD3	1:99:A:ARG:HA	16	0.12
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	4	0.12
(2,4276)	1:75:A:GLU:HG2	1:74:A:PHE:HA	4	0.12
(2,4273)	1:16:A:GLN:HG2	1:15:A:PRO:HA	18	0.12
(2,4272)	1:80:A:GLU:HA	1:77:A:LEU:HA	16	0.12
(2,4269)	1:52:A:ARG:HB2	1:52:A:ARG:HD3	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4263)	1:52:A:ARG:HD3	1:52:A:ARG:H	9	0.12
(2,4255)	1:63:A:LYS:HG2	1:61:A:LYS:H	18	0.12
(2,4249)	1:12:A:ILE:HD13	1:12:A:ILE:H	4	0.12
(2,4249)	1:12:A:ILE:HD13	1:12:A:ILE:H	7	0.12
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	2	0.12
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	10	0.12
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	11	0.12
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	13	0.12
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	18	0.12
(2,4217)	1:25:A:PRO:HA	1:58:A:PRO:HD2	4	0.12
(2,4217)	1:25:A:PRO:HA	1:58:A:PRO:HD2	7	0.12
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	6	0.12
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	10	0.12
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	13	0.12
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	15	0.12
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	17	0.12
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	20	0.12
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	3	0.12
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	4	0.12
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE3	9	0.12
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	1	0.12
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	6	0.12
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	18	0.12
(2,4202)	1:159:A:ILE:HG21	1:160:A:ARG:HD3	15	0.12
(2,4190)	1:77:A:LEU:HD23	1:80:A:GLU:HB2	10	0.12
(2,4190)	1:77:A:LEU:HD22	1:80:A:GLU:HB2	19	0.12
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	2	0.12
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	6	0.12
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	8	0.12
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	13	0.12
(2,4173)	1:63:A:LYS:HD3	1:63:A:LYS:H	19	0.12
(2,4159)	1:53:A:VAL:HG12	1:66:A:THR:HA	2	0.12
(2,4157)	1:57:A:LEU:HA	1:58:A:PRO:HG3	5	0.12
(2,4157)	1:57:A:LEU:HA	1:58:A:PRO:HG3	15	0.12
(2,4143)	1:54:A:LYS:HA	1:64:A:GLU:HG2	4	0.12
(2,4138)	1:137:A:ASN:HB3	1:134:A:LEU:HB3	16	0.12
(2,4127)	1:149:A:ILE:HG23	1:149:A:ILE:HB	7	0.12
(2,4127)	1:149:A:ILE:HG23	1:149:A:ILE:HB	12	0.12
(2,4127)	1:149:A:ILE:HG22	1:149:A:ILE:HB	19	0.12
(2,4098)	1:59:A:ILE:HG22	1:60:A:PHE:HB3	9	0.12
(2,4090)	1:31:A:ILE:HD11	1:31:A:ILE:HG13	2	0.12
(2,4090)	1:31:A:ILE:HD12	1:31:A:ILE:HG13	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4082)	1:126:A:ILE:HD12	1:129:A:VAL:H	19	0.12
(2,4078)	1:152:A:LYS:HB2	1:152:A:LYS:HD2	10	0.12
(2,4050)	1:29:A:LEU:HD13	1:57:A:LEU:HG	2	0.12
(2,4046)	1:29:A:LEU:HB3	1:31:A:ILE:HD11	18	0.12
(2,4010)	1:139:A:ARG:HB3	1:141:A:LEU:H	4	0.12
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD13	10	0.12
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	19	0.12
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD13	20	0.12
(2,4001)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	18	0.12
(2,3994)	1:101:A:LEU:HD13	1:101:A:LEU:HG	7	0.12
(2,3987)	1:26:A:SER:HB2	1:27:A:ASN:HB3	14	0.12
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	1	0.12
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	6	0.12
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	9	0.12
(2,3978)	1:10:A:ARG:HB2	1:10:A:ARG:HB3	12	0.12
(2,3975)	1:3:A:GLU:HG3	1:3:A:GLU:HB2	17	0.12
(2,3963)	1:109:A:ILE:HD13	1:107:A:ASP:HB3	8	0.12
(2,3947)	1:115:A:ILE:HG23	1:36:A:PRO:HG2	1	0.12
(2,3932)	1:100:A:GLN:HB2	1:100:A:GLN:HG3	7	0.12
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	8	0.12
(2,3916)	1:119:A:LYS:HE2	1:116:A:GLU:HB3	18	0.12
(2,3908)	1:119:A:LYS:HD2	1:119:A:LYS:H	9	0.12
(2,3894)	1:92:A:LEU:HD21	1:93:A:PRO:HG2	6	0.12
(2,3894)	1:92:A:LEU:HD21	1:93:A:PRO:HG2	17	0.12
(2,3862)	1:124:A:GLN:HG3	1:93:A:PRO:HG3	14	0.12
(2,3856)	1:124:A:GLN:HA	1:124:A:GLN:HG2	10	0.12
(2,3856)	1:124:A:GLN:HA	1:124:A:GLN:HG2	11	0.12
(2,3856)	1:124:A:GLN:HA	1:124:A:GLN:HG2	14	0.12
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	2	0.12
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	6	0.12
(2,3849)	1:53:A:VAL:HG23	1:55:A:THR:HG23	13	0.12
(2,3783)	1:143:A:MET:HE1	1:143:A:MET:HB3	11	0.12
(2,3770)	1:126:A:ILE:HG23	1:123:A:GLU:H	9	0.12
(2,3744)	1:87:A:VAL:HG21	1:84:A:GLU:HB2	7	0.12
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	17	0.12
(2,3703)	1:92:A:LEU:HD13	1:78:A:ARG:HB2	14	0.12
(2,3702)	1:92:A:LEU:HD23	1:75:A:GLU:HG2	8	0.12
(2,3691)	1:150:A:ILE:HD13	1:143:A:MET:HB2	9	0.12
(2,3690)	1:150:A:ILE:HD11	1:143:A:MET:HG3	8	0.12
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG2	12	0.12
(2,3608)	1:131:A:GLY:HA2	1:130:A:ALA:HB2	5	0.12
(2,3605)	1:61:A:LYS:H	1:22:A:TYR:HE1	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3571)	1:76:A:TRP:HE1	1:150:A:ILE:HG13	12	0.12
(2,3568)	1:76:A:TRP:HE1	1:154:A:TYR:HE1	15	0.12
(2,3568)	1:76:A:TRP:HE1	1:154:A:TYR:HE1	18	0.12
(2,3568)	1:76:A:TRP:HE1	1:154:A:TYR:HE1	20	0.12
(2,3560)	1:122:A:LEU:HD11	1:121:A:GLY:H	1	0.12
(2,3560)	1:122:A:LEU:HD13	1:121:A:GLY:H	18	0.12
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	7	0.12
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	19	0.12
(2,3406)	1:123:A:GLU:H	1:124:A:GLN:HA	2	0.12
(2,3406)	1:123:A:GLU:H	1:124:A:GLN:HA	6	0.12
(2,3406)	1:123:A:GLU:H	1:124:A:GLN:HA	8	0.12
(2,3406)	1:123:A:GLU:H	1:124:A:GLN:HA	9	0.12
(2,3406)	1:123:A:GLU:H	1:124:A:GLN:HA	18	0.12
(2,3406)	1:123:A:GLU:H	1:124:A:GLN:HA	19	0.12
(2,3301)	1:87:A:VAL:HG21	1:81:A:LEU:H	1	0.12
(2,3248)	1:129:A:VAL:HG23	1:132:A:HIS:H	4	0.12
(2,3248)	1:129:A:VAL:HG22	1:132:A:HIS:H	7	0.12
(2,3201)	1:47:A:THR:H	1:46:A:PHE:HE2	20	0.12
(2,3119)	1:57:A:LEU:HD23	1:27:A:ASN:HD22	16	0.12
(2,3058)	1:17:A:ASN:H	1:17:A:ASN:HB3	1	0.12
(2,3053)	1:16:A:GLN:HG3	1:16:A:GLN:H	16	0.12
(2,3042)	1:14:A:LYS:H	1:14:A:LYS:HD3	6	0.12
(2,3042)	1:14:A:LYS:H	1:14:A:LYS:HD3	13	0.12
(2,3036)	1:13:A:THR:H	1:12:A:ILE:HB	6	0.12
(2,3036)	1:13:A:THR:H	1:12:A:ILE:HB	10	0.12
(2,2997)	1:6:A:ALA:H	1:5:A:VAL:HB	10	0.12
(2,2996)	1:6:A:ALA:HB3	1:6:A:ALA:H	20	0.12
(2,2977)	1:3:A:GLU:HB2	1:3:A:GLU:H	1	0.12
(2,2971)	1:2:A:ALA:H	1:1:A:THR:HG22	9	0.12
(2,2971)	1:2:A:ALA:H	1:1:A:THR:HG22	10	0.12
(2,2885)	1:160:A:ARG:H	1:137:A:ASN:HD22	6	0.12
(2,2834)	1:113:A:ASN:HA	1:113:A:ASN:HD21	11	0.12
(2,2805)	1:126:A:ILE:HD12	1:130:A:ALA:H	13	0.12
(2,2793)	1:44:A:GLY:H	1:42:A:GLY:HA2	13	0.12
(2,2793)	1:44:A:GLY:H	1:42:A:GLY:HA2	16	0.12
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	3	0.12
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	5	0.12
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	10	0.12
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	18	0.12
(2,2761)	1:45:A:ARG:HD3	1:45:A:ARG:H	4	0.12
(2,2739)	1:137:A:ASN:H	1:136:A:GLN:HG3	11	0.12
(2,2739)	1:137:A:ASN:H	1:136:A:GLN:HG3	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	17	0.12
(2,2716)	1:35:A:ASN:HD22	1:35:A:ASN:HA	17	0.12
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	7	0.12
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	17	0.12
(2,2644)	1:153:A:SER:H	1:152:A:LYS:HG3	14	0.12
(2,2628)	1:148:A:GLU:H	1:149:A:ILE:H	1	0.12
(2,2611)	1:150:A:ILE:HD12	1:144:A:PHE:H	12	0.12
(2,2587)	1:7:A:ASP:H	1:7:A:ASP:HB2	8	0.12
(2,2535)	1:85:A:SER:HB3	1:85:A:SER:H	16	0.12
(2,2531)	1:84:A:GLU:HB3	1:85:A:SER:H	14	0.12
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	5	0.12
(2,2470)	1:72:A:SER:H	1:75:A:GLU:HB3	14	0.12
(2,2428)	1:20:A:ASP:H	1:19:A:ASN:HB3	8	0.12
(2,2428)	1:20:A:ASP:H	1:19:A:ASN:HB3	16	0.12
(2,2423)	1:21:A:ALA:H	1:22:A:TYR:HD1	10	0.12
(2,2349)	1:23:A:GLY:HA2	1:24:A:PRO:HB2	4	0.12
(2,2339)	1:123:A:GLU:HB2	1:124:A:GLN:HE22	18	0.12
(2,2321)	1:81:A:LEU:HD23	1:87:A:VAL:HB	9	0.12
(2,2317)	1:74:A:PHE:HB2	1:125:A:PHE:HD2	10	0.12
(2,2317)	1:74:A:PHE:HB2	1:125:A:PHE:HD2	14	0.12
(2,2317)	1:74:A:PHE:HB2	1:125:A:PHE:HD2	20	0.12
(2,2298)	1:18:A:LEU:HD22	1:17:A:ASN:H	4	0.12
(2,2285)	1:161:A:HIS:HA	1:161:A:HIS:HD2	1	0.12
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD12	8	0.12
(2,2212)	1:77:A:LEU:HD13	1:144:A:PHE:HZ	10	0.12
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG12	17	0.12
(2,2145)	1:33:A:VAL:HB	1:123:A:GLU:HA	16	0.12
(2,2132)	1:30:A:GLU:HB2	1:30:A:GLU:H	16	0.12
(2,2131)	1:29:A:LEU:HD21	1:136:A:GLN:HE21	20	0.12
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	9	0.12
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	10	0.12
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	12	0.12
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG21	11	0.12
(2,2063)	1:94:A:GLY:HA3	1:97:A:PHE:HE2	14	0.12
(2,2057)	1:150:A:ILE:HG13	1:149:A:ILE:HA	11	0.12
(2,2011)	1:134:A:LEU:HD13	1:88:A:VAL:H	2	0.12
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	1	0.12
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	6	0.12
(2,1922)	1:33:A:VAL:HG22	1:33:A:VAL:HA	1	0.12
(2,1922)	1:33:A:VAL:HG21	1:33:A:VAL:HA	6	0.12
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG21	15	0.12
(2,1907)	1:117:A:GLU:HG2	1:97:A:PHE:HB2	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	10	0.12
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG21	6	0.12
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG22	7	0.12
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG22	17	0.12
(2,1813)	1:86:A:LYS:HG3	1:86:A:LYS:HA	14	0.12
(2,1791)	1:83:A:ARG:HD2	1:83:A:ARG:H	10	0.12
(2,1791)	1:83:A:ARG:HD2	1:83:A:ARG:H	16	0.12
(2,1791)	1:83:A:ARG:HD2	1:83:A:ARG:H	19	0.12
(2,1790)	1:83:A:ARG:HD3	1:83:A:ARG:H	5	0.12
(2,1769)	1:75:A:GLU:HG2	1:76:A:TRP:H	10	0.12
(2,1767)	1:92:A:LEU:HD23	1:75:A:GLU:HG3	7	0.12
(2,1729)	1:63:A:LYS:HE3	1:58:A:PRO:HA	5	0.12
(2,1706)	1:47:A:THR:HG23	1:36:A:PRO:HG2	5	0.12
(2,1693)	1:34:A:SER:HB3	1:119:A:LYS:HB2	16	0.12
(2,1679)	1:126:A:ILE:HG21	1:31:A:ILE:HG23	12	0.12
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG21	6	0.12
(2,1649)	1:90:A:PRO:HD3	1:125:A:PHE:HE1	16	0.12
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG23	1	0.12
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG21	14	0.12
(2,1585)	1:141:A:LEU:HD11	1:141:A:LEU:H	8	0.12
(2,1538)	1:41:A:VAL:HA	1:45:A:ARG:HB2	15	0.12
(2,1511)	1:59:A:ILE:HG23	1:57:A:LEU:HG	1	0.12
(2,1511)	1:59:A:ILE:HG21	1:57:A:LEU:HG	6	0.12
(2,1506)	1:52:A:ARG:HG3	1:53:A:VAL:H	2	0.12
(2,1489)	1:29:A:LEU:HD13	1:55:A:THR:HA	17	0.12
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	3	0.12
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	9	0.12
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	12	0.12
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	15	0.12
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	16	0.12
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	18	0.12
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	19	0.12
(2,1432)	1:149:A:ILE:HB	1:148:A:GLU:H	8	0.12
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG22	8	0.12
(2,1387)	1:41:A:VAL:HG22	1:41:A:VAL:HA	9	0.12
(2,1341)	1:57:A:LEU:HB2	1:59:A:ILE:HG22	2	0.12
(2,1339)	1:59:A:ILE:HG21	1:58:A:PRO:HD3	1	0.12
(2,1328)	1:115:A:ILE:HG21	1:114:A:PHE:HE2	16	0.12
(2,1308)	1:31:A:ILE:HD12	1:127:A:ASN:H	20	0.12
(2,1249)	1:101:A:LEU:HB3	1:101:A:LEU:H	2	0.12
(2,1249)	1:101:A:LEU:HB3	1:101:A:LEU:H	14	0.12
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	6	0.12
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	15	0.12
(2,1137)	1:59:A:ILE:HD12	1:59:A:ILE:HB	17	0.12
(2,1113)	1:149:A:ILE:HD11	1:149:A:ILE:HB	6	0.12
(2,1113)	1:149:A:ILE:HD11	1:149:A:ILE:HB	11	0.12
(2,1107)	1:12:A:ILE:HD11	1:12:A:ILE:HG13	18	0.12
(2,1107)	1:12:A:ILE:HD13	1:12:A:ILE:HG13	19	0.12
(2,1084)	1:139:A:ARG:HD2	1:161:A:HIS:HD2	14	0.12
(2,1079)	1:139:A:ARG:HD3	1:139:A:ARG:HG3	1	0.12
(2,1075)	1:139:A:ARG:HD2	1:139:A:ARG:H	17	0.12
(2,1055)	1:151:A:ASP:HB3	1:150:A:ILE:HA	9	0.12
(2,1044)	1:148:A:GLU:HG3	1:149:A:ILE:HG12	12	0.12
(2,1042)	1:149:A:ILE:HA	1:149:A:ILE:HG12	1	0.12
(2,1024)	1:148:A:GLU:HG3	1:149:A:ILE:H	3	0.12
(2,1024)	1:148:A:GLU:HG3	1:149:A:ILE:H	4	0.12
(2,1000)	1:102:A:PRO:HD3	1:101:A:LEU:HD11	9	0.12
(2,995)	1:101:A:LEU:HD23	1:101:A:LEU:H	7	0.12
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD22	4	0.12
(2,982)	1:12:A:ILE:HA	1:12:A:ILE:HG13	14	0.12
(2,957)	1:148:A:GLU:HB3	1:148:A:GLU:H	6	0.12
(2,957)	1:148:A:GLU:HB3	1:148:A:GLU:H	14	0.12
(2,927)	1:109:A:ILE:HD11	1:109:A:ILE:HG21	12	0.12
(2,926)	1:109:A:ILE:HD12	1:45:A:ARG:HB3	5	0.12
(2,897)	1:113:A:ASN:HB2	1:117:A:GLU:HG3	19	0.12
(2,869)	1:115:A:ILE:HD12	1:36:A:PRO:HG2	6	0.12
(2,821)	1:117:A:GLU:HG3	1:117:A:GLU:H	12	0.12
(2,821)	1:117:A:GLU:HG3	1:117:A:GLU:H	13	0.12
(2,712)	1:124:A:GLN:HG3	1:123:A:GLU:H	15	0.12
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	4	0.12
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	7	0.12
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	12	0.12
(2,702)	1:121:A:GLY:HA2	1:124:A:GLN:HB3	18	0.12
(2,687)	1:82:A:GLU:HG2	1:83:A:ARG:H	13	0.12
(2,681)	1:159:A:ILE:HG21	1:159:A:ILE:HB	5	0.12
(2,681)	1:159:A:ILE:HG23	1:159:A:ILE:HB	6	0.12
(2,681)	1:159:A:ILE:HG21	1:159:A:ILE:HB	14	0.12
(2,681)	1:159:A:ILE:HG22	1:159:A:ILE:HB	15	0.12
(2,681)	1:159:A:ILE:HG21	1:159:A:ILE:HB	18	0.12
(2,681)	1:159:A:ILE:HG23	1:159:A:ILE:HB	20	0.12
(2,675)	1:55:A:THR:HG21	1:56:A:ASN:H	5	0.12
(2,673)	1:55:A:THR:HG21	1:62:A:LEU:H	14	0.12
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,645)	1:128:A:LYS:HA	1:130:A:ALA:H	10	0.12
(2,645)	1:128:A:LYS:HA	1:130:A:ALA:H	13	0.12
(2,645)	1:128:A:LYS:HA	1:130:A:ALA:H	15	0.12
(2,645)	1:128:A:LYS:HA	1:130:A:ALA:H	20	0.12
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	18	0.12
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB3	2	0.12
(2,623)	1:129:A:VAL:HG22	1:130:A:ALA:HB2	12	0.12
(2,596)	1:129:A:VAL:HG11	1:128:A:LYS:H	18	0.12
(2,592)	1:129:A:VAL:HA	1:87:A:VAL:HG11	16	0.12
(2,574)	1:143:A:MET:HG2	1:150:A:ILE:H	17	0.12
(2,541)	1:143:A:MET:HE2	1:144:A:PHE:HD2	2	0.12
(2,541)	1:143:A:MET:HE2	1:144:A:PHE:HD2	5	0.12
(2,540)	1:143:A:MET:HE1	1:76:A:TRP:HZ2	8	0.12
(2,530)	1:143:A:MET:HE2	1:150:A:ILE:HA	11	0.12
(2,526)	1:122:A:LEU:HD13	1:75:A:GLU:H	6	0.12
(2,516)	1:122:A:LEU:HD11	1:92:A:LEU:HA	4	0.12
(2,516)	1:122:A:LEU:HD13	1:92:A:LEU:HA	19	0.12
(2,513)	1:122:A:LEU:HD12	1:122:A:LEU:HB3	11	0.12
(2,454)	1:141:A:LEU:HD12	1:77:A:LEU:HD13	3	0.12
(2,417)	1:87:A:VAL:HG23	1:132:A:HIS:HD2	13	0.12
(2,397)	1:134:A:LEU:HG	1:87:A:VAL:H	17	0.12
(2,395)	1:90:A:PRO:HG3	1:129:A:VAL:HG13	5	0.12
(2,394)	1:90:A:PRO:HG2	1:129:A:VAL:HG11	8	0.12
(2,372)	1:89:A:VAL:HG11	1:81:A:LEU:HB2	20	0.12
(2,357)	1:89:A:VAL:HG11	1:125:A:PHE:HZ	13	0.12
(2,351)	1:42:A:GLY:HA3	1:41:A:VAL:HG11	17	0.12
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	15	0.12
(2,311)	1:92:A:LEU:HD13	1:92:A:LEU:H	1	0.12
(2,311)	1:92:A:LEU:HD11	1:92:A:LEU:H	4	0.12
(2,306)	1:92:A:LEU:HD22	1:75:A:GLU:H	17	0.12
(2,273)	1:22:A:TYR:HB3	1:28:A:PHE:HD2	10	0.12
(2,273)	1:22:A:TYR:HB3	1:28:A:PHE:HD2	16	0.12
(2,273)	1:22:A:TYR:HB3	1:28:A:PHE:HD2	20	0.12
(2,246)	1:150:A:ILE:HG12	1:150:A:ILE:H	18	0.12
(2,241)	1:150:A:ILE:HG23	1:151:A:ASP:H	11	0.12
(2,232)	1:151:A:ASP:HB3	1:150:A:ILE:HG23	11	0.12
(2,213)	1:158:A:LYS:HB3	1:137:A:ASN:HD21	10	0.12
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG21	10	0.12
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG21	15	0.12
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG22	20	0.12
(2,193)	1:159:A:ILE:HA	1:160:A:ARG:HD3	7	0.12
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,125)	1:127:A:ASN:HA	1:127:A:ASN:HD22	10	0.12
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	9	0.12
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	15	0.12
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	18	0.12
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG22	4	0.12
(2,47)	1:83:A:ARG:HB2	1:83:A:ARG:HD3	14	0.12
(1,11)	1:51:A:ILE:H	1:67:A:VAL:O	11	0.12
(2,4975)	1:108:A:GLY:H	1:105:A:GLY:HA3	3	0.11
(2,4967)	1:76:A:TRP:HE1	1:76:A:TRP:HA	2	0.11
(2,4967)	1:76:A:TRP:HE1	1:76:A:TRP:HA	15	0.11
(2,4967)	1:76:A:TRP:HE1	1:76:A:TRP:HA	20	0.11
(2,4942)	1:140:A:CYS:H	1:139:A:ARG:HG2	13	0.11
(2,4929)	1:137:A:ASN:HD22	1:160:A:ARG:HB2	2	0.11
(2,4899)	1:124:A:GLN:HE22	1:121:A:GLY:HA2	6	0.11
(2,4886)	1:120:A:GLN:HE21	1:117:A:GLU:HB3	5	0.11
(2,4886)	1:120:A:GLN:HE21	1:117:A:GLU:HB3	19	0.11
(2,4884)	1:116:A:GLU:HG2	1:120:A:GLN:HE21	4	0.11
(2,4883)	1:120:A:GLN:HE22	1:117:A:GLU:HG3	9	0.11
(2,4864)	1:107:A:ASP:H	1:108:A:GLY:HA2	18	0.11
(2,4851)	1:89:A:VAL:H	1:82:A:GLU:H	4	0.11
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD12	19	0.11
(2,4839)	1:129:A:VAL:H	1:81:A:LEU:HD13	20	0.11
(2,4816)	1:81:A:LEU:HD22	1:81:A:LEU:H	9	0.11
(2,4784)	1:23:A:GLY:H	1:24:A:PRO:HG2	5	0.11
(2,4784)	1:23:A:GLY:H	1:24:A:PRO:HG2	16	0.11
(2,4769)	1:9:A:ARG:H	1:9:A:ARG:HG2	10	0.11
(2,4751)	1:34:A:SER:H	1:32:A:ASP:HB3	20	0.11
(2,4733)	1:111:A:ASP:H	1:110:A:PHE:HD1	2	0.11
(2,4731)	1:37:A:GLN:H	1:36:A:PRO:HG2	11	0.11
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	10	0.11
(2,4707)	1:46:A:PHE:H	1:44:A:GLY:HA2	19	0.11
(2,4705)	1:78:A:ARG:H	1:81:A:LEU:HB2	20	0.11
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	16	0.11
(2,4687)	1:136:A:GLN:H	1:134:A:LEU:HD12	7	0.11
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	12	0.11
(2,4680)	1:137:A:ASN:H	1:159:A:ILE:HB	14	0.11
(2,4665)	1:159:A:ILE:H	1:158:A:LYS:HE2	12	0.11
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB3	4	0.11
(2,4664)	1:154:A:TYR:H	1:153:A:SER:HB2	11	0.11
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	11	0.11
(2,4661)	1:153:A:SER:H	1:152:A:LYS:HB3	15	0.11
(2,4653)	1:146:A:GLN:H	1:67:A:VAL:HG12	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	5	0.11
(2,4642)	1:138:A:GLU:HB3	1:138:A:GLU:H	16	0.11
(2,4616)	1:85:A:SER:H	1:82:A:GLU:HB2	8	0.11
(2,4611)	1:80:A:GLU:H	1:77:A:LEU:HD23	9	0.11
(2,4573)	1:68:A:ARG:HD3	1:68:A:ARG:HB3	15	0.11
(2,4569)	1:104:A:ARG:HB2	1:104:A:ARG:HG2	14	0.11
(2,4566)	1:157:A:SER:HB2	1:139:A:ARG:HD3	10	0.11
(2,4547)	1:148:A:GLU:HG3	1:67:A:VAL:HG12	14	0.11
(2,4547)	1:148:A:GLU:HG3	1:67:A:VAL:HG11	17	0.11
(2,4546)	1:129:A:VAL:HG11	1:130:A:ALA:HA	16	0.11
(2,4528)	1:120:A:GLN:HG3	1:122:A:LEU:H	11	0.11
(2,4490)	1:128:A:LYS:HD3	1:90:A:PRO:HB3	12	0.11
(2,4484)	1:95:A:LYS:HG2	1:95:A:LYS:HE2	20	0.11
(2,4473)	1:77:A:LEU:HD12	1:144:A:PHE:HB2	2	0.11
(2,4473)	1:77:A:LEU:HD12	1:144:A:PHE:HB2	4	0.11
(2,4462)	1:62:A:LEU:HD12	1:61:A:LYS:HA	10	0.11
(2,4462)	1:62:A:LEU:HD12	1:61:A:LYS:HA	14	0.11
(2,4462)	1:62:A:LEU:HD13	1:61:A:LYS:HA	15	0.11
(2,4432)	1:30:A:GLU:HB3	1:28:A:PHE:HE1	11	0.11
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD22	2	0.11
(2,4415)	1:134:A:LEU:HG	1:134:A:LEU:HD22	10	0.11
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD13	7	0.11
(2,4363)	1:5:A:VAL:HG13	1:5:A:VAL:HB	5	0.11
(2,4363)	1:5:A:VAL:HG12	1:5:A:VAL:HB	6	0.11
(2,4363)	1:5:A:VAL:HG12	1:5:A:VAL:HB	7	0.11
(2,4363)	1:5:A:VAL:HG21	1:5:A:VAL:HB	15	0.11
(2,4363)	1:5:A:VAL:HG11	1:5:A:VAL:HB	18	0.11
(2,4363)	1:5:A:VAL:HG11	1:5:A:VAL:HB	19	0.11
(2,4363)	1:5:A:VAL:HG12	1:5:A:VAL:HB	20	0.11
(2,4347)	1:145:A:LEU:HD21	1:144:A:PHE:HD2	8	0.11
(2,4327)	1:33:A:VAL:HG23	1:122:A:LEU:H	12	0.11
(2,4327)	1:33:A:VAL:HG22	1:122:A:LEU:H	15	0.11
(2,4326)	1:33:A:VAL:HG23	1:125:A:PHE:HD2	16	0.11
(2,4281)	1:85:A:SER:HB2	1:84:A:GLU:HA	10	0.11
(2,4278)	1:9:A:ARG:HA	1:9:A:ARG:HG2	16	0.11
(2,4277)	1:9:A:ARG:HB3	1:9:A:ARG:HA	11	0.11
(2,4275)	1:82:A:GLU:HG2	1:78:A:ARG:HG2	13	0.11
(2,4269)	1:52:A:ARG:HB2	1:52:A:ARG:HD2	2	0.11
(2,4269)	1:52:A:ARG:HB2	1:52:A:ARG:HD2	5	0.11
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	1	0.11
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	6	0.11
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	9	0.11
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	12	0.11
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	19	0.11
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	20	0.11
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	4	0.11
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	7	0.11
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	11	0.11
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	12	0.11
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	14	0.11
(2,4208)	1:158:A:LYS:HD2	1:158:A:LYS:HG3	19	0.11
(2,4206)	1:86:A:LYS:HD3	1:86:A:LYS:HE2	7	0.11
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	7	0.11
(2,4205)	1:158:A:LYS:HD2	1:159:A:ILE:H	12	0.11
(2,4196)	1:160:A:ARG:HD3	1:137:A:ASN:H	8	0.11
(2,4186)	1:77:A:LEU:HD21	1:144:A:PHE:HB3	7	0.11
(2,4179)	1:141:A:LEU:HD12	1:60:A:PHE:HZ	13	0.11
(2,4162)	1:134:A:LEU:HB3	1:134:A:LEU:HD12	4	0.11
(2,4159)	1:53:A:VAL:HG13	1:66:A:THR:HA	17	0.11
(2,4127)	1:149:A:ILE:HG21	1:149:A:ILE:HB	3	0.11
(2,4127)	1:149:A:ILE:HG22	1:149:A:ILE:HB	10	0.11
(2,4127)	1:149:A:ILE:HD12	1:149:A:ILE:HB	15	0.11
(2,4112)	1:81:A:LEU:HD21	1:135:A:ALA:HB3	13	0.11
(2,4103)	1:51:A:ILE:HG22	1:60:A:PHE:HE2	6	0.11
(2,4100)	1:59:A:ILE:HG23	1:141:A:LEU:HB2	17	0.11
(2,4098)	1:59:A:ILE:HG21	1:60:A:PHE:HB3	16	0.11
(2,4078)	1:152:A:LYS:HB2	1:152:A:LYS:HD2	8	0.11
(2,4078)	1:152:A:LYS:HB2	1:152:A:LYS:HD2	9	0.11
(2,4052)	1:29:A:LEU:HD23	1:57:A:LEU:HG	15	0.11
(2,4052)	1:29:A:LEU:HD21	1:57:A:LEU:HG	16	0.11
(2,4052)	1:29:A:LEU:HD23	1:57:A:LEU:HG	18	0.11
(2,4043)	1:45:A:ARG:HD2	1:45:A:ARG:H	1	0.11
(2,4010)	1:139:A:ARG:HB3	1:141:A:LEU:H	18	0.11
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	7	0.11
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD13	15	0.11
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	17	0.11
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	18	0.11
(2,4001)	1:149:A:ILE:HG12	1:149:A:ILE:HD11	13	0.11
(2,4001)	1:149:A:ILE:HG12	1:149:A:ILE:HG21	17	0.11
(2,3996)	1:101:A:LEU:HD21	1:101:A:LEU:HG	15	0.11
(2,3976)	1:104:A:ARG:HA	1:104:A:ARG:HG3	14	0.11
(2,3974)	1:3:A:GLU:HG2	1:3:A:GLU:HB3	8	0.11
(2,3974)	1:3:A:GLU:HG2	1:3:A:GLU:HB3	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3959)	1:109:A:ILE:HD11	1:110:A:PHE:HE1	18	0.11
(2,3958)	1:109:A:ILE:HD11	1:107:A:ASP:H	6	0.11
(2,3958)	1:109:A:ILE:HD13	1:107:A:ASP:H	14	0.11
(2,3950)	1:113:A:ASN:HA	1:116:A:GLU:HB3	14	0.11
(2,3916)	1:119:A:LYS:HE2	1:120:A:GLN:HB3	7	0.11
(2,3910)	1:119:A:LYS:HE3	1:120:A:GLN:HA	14	0.11
(2,3910)	1:119:A:LYS:HE3	1:120:A:GLN:HA	19	0.11
(2,3908)	1:119:A:LYS:HD2	1:119:A:LYS:H	11	0.11
(2,3895)	1:120:A:GLN:HA	1:122:A:LEU:H	9	0.11
(2,3892)	1:93:A:PRO:HG2	1:71:A:TYR:HE1	15	0.11
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	12	0.11
(2,3849)	1:55:A:THR:HG21	1:29:A:LEU:HD13	1	0.11
(2,3849)	1:55:A:THR:HG23	1:29:A:LEU:HD11	5	0.11
(2,3830)	1:129:A:VAL:HG12	1:128:A:LYS:HD3	7	0.11
(2,3830)	1:129:A:VAL:HG11	1:128:A:LYS:HD3	18	0.11
(2,3817)	1:128:A:LYS:HD2	1:129:A:VAL:H	9	0.11
(2,3815)	1:14:A:LYS:HB3	1:14:A:LYS:HG3	1	0.11
(2,3800)	1:129:A:VAL:HA	1:88:A:VAL:HG12	20	0.11
(2,3783)	1:143:A:MET:HE2	1:143:A:MET:HB3	14	0.11
(2,3770)	1:126:A:ILE:HG23	1:123:A:GLU:H	1	0.11
(2,3770)	1:126:A:ILE:HG22	1:123:A:GLU:H	12	0.11
(2,3757)	1:47:A:THR:HG22	1:115:A:ILE:HA	7	0.11
(2,3747)	1:0:A:GLY:HA2	1:-1:A:VAL:HG23	16	0.11
(2,3715)	1:90:A:PRO:HD3	1:128:A:LYS:HD3	9	0.11
(2,3694)	1:150:A:ILE:HD11	1:69:A:ARG:HG2	4	0.11
(2,3691)	1:150:A:ILE:HD12	1:143:A:MET:HB2	14	0.11
(2,3670)	1:58:A:PRO:HA	1:58:A:PRO:HD2	4	0.11
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD13	5	0.11
(2,3669)	1:60:A:PHE:HA	1:59:A:ILE:HD11	14	0.11
(2,3666)	1:63:A:LYS:HB3	1:63:A:LYS:HG2	5	0.11
(2,3663)	1:64:A:GLU:HA	1:64:A:GLU:HG2	13	0.11
(2,3584)	1:108:A:GLY:H	1:109:A:ILE:HA	11	0.11
(2,3579)	1:38:A:THR:H	1:39:A:VAL:HG22	1	0.11
(2,3579)	1:38:A:THR:H	1:39:A:VAL:HG21	4	0.11
(2,3560)	1:122:A:LEU:HD11	1:121:A:GLY:H	5	0.11
(2,3537)	1:100:A:GLN:HE21	1:100:A:GLN:HB2	17	0.11
(2,3530)	1:2:A:ALA:H	1:1:A:THR:HB	6	0.11
(2,3523)	1:162:A:ALA:HB3	1:162:A:ALA:H	9	0.11
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	13	0.11
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	20	0.11
(2,3419)	1:124:A:GLN:HE21	1:123:A:GLU:HG3	16	0.11
(2,3406)	1:123:A:GLU:H	1:124:A:GLN:HA	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3347)	1:107:A:ASP:H	1:105:A:GLY:HA2	12	0.11
(2,3347)	1:107:A:ASP:H	1:105:A:GLY:HA2	17	0.11
(2,3332)	1:158:A:LYS:H	1:137:A:ASN:HD21	4	0.11
(2,3289)	1:150:A:ILE:HD11	1:73:A:ASP:H	11	0.11
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	10	0.11
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	15	0.11
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	16	0.11
(2,3262)	1:62:A:LEU:H	1:64:A:GLU:H	20	0.11
(2,3235)	1:54:A:LYS:H	1:31:A:ILE:HD12	3	0.11
(2,3235)	1:54:A:LYS:H	1:31:A:ILE:HD13	14	0.11
(2,3195)	1:40:A:GLY:H	1:38:A:THR:HG21	20	0.11
(2,3119)	1:57:A:LEU:HD21	1:27:A:ASN:HD22	13	0.11
(2,3119)	1:57:A:LEU:HD21	1:27:A:ASN:HD22	14	0.11
(2,3082)	1:23:A:GLY:H	1:22:A:TYR:HD2	2	0.11
(2,3036)	1:13:A:THR:H	1:12:A:ILE:HB	16	0.11
(2,2996)	1:6:A:ALA:HB1	1:6:A:ALA:H	1	0.11
(2,2996)	1:6:A:ALA:HB2	1:6:A:ALA:H	18	0.11
(2,2995)	1:4:A:THR:HA	1:5:A:VAL:H	12	0.11
(2,2982)	1:4:A:THR:HG23	1:4:A:THR:H	4	0.11
(2,2972)	1:2:A:ALA:HB1	1:2:A:ALA:H	2	0.11
(2,2971)	1:2:A:ALA:H	1:1:A:THR:HG23	15	0.11
(2,2885)	1:160:A:ARG:H	1:137:A:ASN:HD22	17	0.11
(2,2834)	1:113:A:ASN:HA	1:113:A:ASN:HD21	4	0.11
(2,2833)	1:113:A:ASN:HD22	1:113:A:ASN:HA	17	0.11
(2,2793)	1:44:A:GLY:H	1:42:A:GLY:HA2	2	0.11
(2,2780)	1:42:A:GLY:H	1:45:A:ARG:HG3	13	0.11
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	8	0.11
(2,2761)	1:45:A:ARG:HD3	1:45:A:ARG:H	11	0.11
(2,2739)	1:137:A:ASN:H	1:136:A:GLN:HG3	20	0.11
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	9	0.11
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	12	0.11
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	15	0.11
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	16	0.11
(2,2672)	1:102:A:PRO:HB2	1:103:A:PHE:H	4	0.11
(2,2672)	1:102:A:PRO:HB2	1:103:A:PHE:H	15	0.11
(2,2669)	1:104:A:ARG:H	1:103:A:PHE:HD2	12	0.11
(2,2655)	1:153:A:SER:H	1:151:A:ASP:H	19	0.11
(2,2642)	1:153:A:SER:H	1:150:A:ILE:HG22	13	0.11
(2,2624)	1:148:A:GLU:H	1:147:A:ASP:HB3	13	0.11
(2,2611)	1:150:A:ILE:HD11	1:144:A:PHE:H	17	0.11
(2,2587)	1:7:A:ASP:H	1:7:A:ASP:HB2	9	0.11
(2,2587)	1:7:A:ASP:H	1:7:A:ASP:HB2	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2543)	1:85:A:SER:HA	1:87:A:VAL:H	5	0.11
(2,2543)	1:85:A:SER:HA	1:87:A:VAL:H	18	0.11
(2,2535)	1:85:A:SER:HB3	1:85:A:SER:H	1	0.11
(2,2535)	1:85:A:SER:HB3	1:85:A:SER:H	13	0.11
(2,2533)	1:85:A:SER:H	1:81:A:LEU:HD23	4	0.11
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	1	0.11
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	4	0.11
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	11	0.11
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	15	0.11
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	17	0.11
(2,2502)	1:79:A:SER:H	1:77:A:LEU:HB2	9	0.11
(2,2470)	1:72:A:SER:H	1:75:A:GLU:HB3	7	0.11
(2,2364)	1:53:A:VAL:HG21	1:145:A:LEU:HB2	9	0.11
(2,2346)	1:88:A:VAL:HG12	1:90:A:PRO:HD2	1	0.11
(2,2321)	1:81:A:LEU:HD21	1:87:A:VAL:HB	18	0.11
(2,2317)	1:74:A:PHE:HB2	1:125:A:PHE:HD2	2	0.11
(2,2317)	1:74:A:PHE:HB2	1:125:A:PHE:HD2	3	0.11
(2,2317)	1:74:A:PHE:HB2	1:125:A:PHE:HD2	9	0.11
(2,2317)	1:74:A:PHE:HB2	1:125:A:PHE:HD2	15	0.11
(2,2305)	1:120:A:GLN:HA	1:33:A:VAL:HG21	17	0.11
(2,2267)	1:135:A:ALA:HB1	1:136:A:GLN:HG3	6	0.11
(2,2267)	1:135:A:ALA:HB3	1:136:A:GLN:HG3	18	0.11
(2,2232)	1:89:A:VAL:HG11	1:125:A:PHE:HD1	9	0.11
(2,2232)	1:89:A:VAL:HG11	1:125:A:PHE:HD1	11	0.11
(2,2212)	1:77:A:LEU:HD12	1:144:A:PHE:HZ	1	0.11
(2,2207)	1:71:A:TYR:HA	1:122:A:LEU:HB3	3	0.11
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG23	10	0.11
(2,2121)	1:58:A:PRO:HB2	1:59:A:ILE:HA	4	0.11
(2,2105)	1:14:A:LYS:HE3	1:13:A:THR:H	18	0.11
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG23	2	0.11
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG23	7	0.11
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG21	17	0.11
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG23	18	0.11
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG21	19	0.11
(2,2057)	1:150:A:ILE:HG13	1:149:A:ILE:HA	5	0.11
(2,2030)	1:54:A:LYS:HB3	1:28:A:PHE:HD1	9	0.11
(2,2030)	1:54:A:LYS:HB3	1:28:A:PHE:HD1	15	0.11
(2,2005)	1:51:A:ILE:HD12	1:69:A:ARG:HA	12	0.11
(2,2005)	1:51:A:ILE:HD11	1:69:A:ARG:HA	19	0.11
(2,2003)	1:69:A:ARG:HA	1:67:A:VAL:HG23	10	0.11
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	14	0.11
(2,1990)	1:156:A:PRO:HG3	1:154:A:TYR:HD1	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1965)	1:149:A:ILE:HD12	1:150:A:ILE:HA	8	0.11
(2,1944)	1:144:A:PHE:HA	1:144:A:PHE:HZ	13	0.11
(2,1944)	1:144:A:PHE:HA	1:144:A:PHE:HZ	19	0.11
(2,1944)	1:144:A:PHE:HA	1:144:A:PHE:HZ	20	0.11
(2,1930)	1:141:A:LEU:HD23	1:130:A:ALA:H	11	0.11
(2,1928)	1:142:A:HIS:HB3	1:141:A:LEU:H	13	0.11
(2,1922)	1:33:A:VAL:HG22	1:33:A:VAL:HA	3	0.11
(2,1917)	1:123:A:GLU:HB2	1:33:A:VAL:HG22	13	0.11
(2,1906)	1:117:A:GLU:HG3	1:97:A:PHE:HB2	9	0.11
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	6	0.11
(2,1850)	1:95:A:LYS:HA	1:95:A:LYS:HG2	16	0.11
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG21	5	0.11
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG23	9	0.11
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG21	10	0.11
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG23	20	0.11
(2,1813)	1:86:A:LYS:HG3	1:86:A:LYS:HA	4	0.11
(2,1791)	1:83:A:ARG:HD2	1:83:A:ARG:H	8	0.11
(2,1790)	1:83:A:ARG:HD3	1:83:A:ARG:H	12	0.11
(2,1769)	1:75:A:GLU:HG2	1:76:A:TRP:H	6	0.11
(2,1769)	1:75:A:GLU:HG2	1:76:A:TRP:H	17	0.11
(2,1759)	1:159:A:ILE:HB	1:137:A:ASN:HD21	5	0.11
(2,1724)	1:63:A:LYS:HE2	1:63:A:LYS:H	4	0.11
(2,1706)	1:47:A:THR:HG21	1:36:A:PRO:HG2	12	0.11
(2,1700)	1:115:A:ILE:HG23	1:36:A:PRO:HD2	14	0.11
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG22	12	0.11
(2,1675)	1:123:A:GLU:HA	1:31:A:ILE:HG22	18	0.11
(2,1633)	1:54:A:LYS:HE2	1:54:A:LYS:HB2	14	0.11
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG21	5	0.11
(2,1589)	1:141:A:LEU:HB2	1:141:A:LEU:HD13	7	0.11
(2,1583)	1:141:A:LEU:HD13	1:138:A:GLU:H	5	0.11
(2,1538)	1:41:A:VAL:HA	1:45:A:ARG:HB2	18	0.11
(2,1511)	1:59:A:ILE:HG21	1:57:A:LEU:HG	15	0.11
(2,1489)	1:29:A:LEU:HD11	1:55:A:THR:HA	12	0.11
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	2	0.11
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	6	0.11
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	7	0.11
(2,1457)	1:133:A:PRO:HB3	1:133:A:PRO:HD2	10	0.11
(2,1450)	1:90:A:PRO:HD3	1:128:A:LYS:HB3	10	0.11
(2,1450)	1:90:A:PRO:HD3	1:128:A:LYS:HB3	19	0.11
(2,1432)	1:149:A:ILE:HB	1:148:A:GLU:H	3	0.11
(2,1414)	1:136:A:GLN:HG3	1:136:A:GLN:HA	2	0.11
(2,1414)	1:136:A:GLN:HG3	1:136:A:GLN:HA	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1414)	1:136:A:GLN:HG3	1:136:A:GLN:HA	12	0.11
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG21	2	0.11
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG22	9	0.11
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG21	17	0.11
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG23	18	0.11
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG23	20	0.11
(2,1406)	1:39:A:VAL:HG21	1:39:A:VAL:HA	2	0.11
(2,1406)	1:39:A:VAL:HG23	1:39:A:VAL:HA	20	0.11
(2,1398)	1:33:A:VAL:HG11	1:74:A:PHE:HD2	5	0.11
(2,1398)	1:33:A:VAL:HG11	1:74:A:PHE:HD2	9	0.11
(2,1398)	1:33:A:VAL:HG11	1:74:A:PHE:HD2	17	0.11
(2,1387)	1:41:A:VAL:HG21	1:41:A:VAL:HA	2	0.11
(2,1387)	1:41:A:VAL:HG22	1:41:A:VAL:HA	3	0.11
(2,1387)	1:41:A:VAL:HG22	1:41:A:VAL:HA	8	0.11
(2,1375)	1:96:A:ALA:HB3	1:98:A:LEU:H	5	0.11
(2,1357)	1:51:A:ILE:HG23	1:34:A:SER:H	12	0.11
(2,1354)	1:51:A:ILE:HG21	1:52:A:ARG:H	15	0.11
(2,1309)	1:149:A:ILE:HG23	1:150:A:ILE:H	3	0.11
(2,1299)	1:51:A:ILE:HD13	1:33:A:VAL:HB	14	0.11
(2,1290)	1:51:A:ILE:HD12	1:49:A:TYR:HB3	19	0.11
(2,1248)	1:98:A:LEU:HB3	1:99:A:ARG:H	4	0.11
(2,1201)	1:29:A:LEU:HD22	1:29:A:LEU:HD12	3	0.11
(2,1201)	1:29:A:LEU:HD21	1:29:A:LEU:HD12	12	0.11
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	12	0.11
(2,1174)	1:45:A:ARG:HG3	1:45:A:ARG:H	20	0.11
(2,1165)	1:45:A:ARG:HB3	1:38:A:THR:HG23	9	0.11
(2,1113)	1:149:A:ILE:HD11	1:149:A:ILE:HB	14	0.11
(2,1107)	1:12:A:ILE:HD11	1:12:A:ILE:HG13	1	0.11
(2,1100)	1:11:A:LEU:HB3	1:11:A:LEU:H	1	0.11
(2,1088)	1:139:A:ARG:HD3	1:142:A:HIS:H	17	0.11
(2,1085)	1:139:A:ARG:HD3	1:161:A:HIS:HD2	16	0.11
(2,1072)	1:159:A:ILE:HD11	1:139:A:ARG:HD2	7	0.11
(2,1056)	1:159:A:ILE:HD13	1:139:A:ARG:H	8	0.11
(2,1032)	1:148:A:GLU:HG3	1:67:A:VAL:HG12	14	0.11
(2,1032)	1:148:A:GLU:HG3	1:67:A:VAL:HG11	17	0.11
(2,1007)	1:98:A:LEU:HG	1:97:A:PHE:HD1	3	0.11
(2,970)	1:25:A:PRO:HD3	1:24:A:PRO:HB2	12	0.11
(2,965)	1:39:A:VAL:HB	1:46:A:PHE:HD2	13	0.11
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	8	0.11
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	10	0.11
(2,801)	1:118:A:ARG:HB3	1:122:A:LEU:H	13	0.11
(2,712)	1:124:A:GLN:HG3	1:123:A:GLU:H	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,712)	1:124:A:GLN:HG3	1:123:A:GLU:H	13	0.11
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	1	0.11
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	2	0.11
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	5	0.11
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	8	0.11
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	10	0.11
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	11	0.11
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	13	0.11
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	14	0.11
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	16	0.11
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	17	0.11
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	20	0.11
(2,689)	1:82:A:GLU:HG2	1:82:A:GLU:H	1	0.11
(2,687)	1:82:A:GLU:HG2	1:83:A:ARG:H	16	0.11
(2,687)	1:82:A:GLU:HG2	1:83:A:ARG:H	20	0.11
(2,681)	1:159:A:ILE:HG22	1:159:A:ILE:HB	1	0.11
(2,681)	1:159:A:ILE:HG23	1:159:A:ILE:HB	12	0.11
(2,681)	1:159:A:ILE:HG22	1:159:A:ILE:HB	13	0.11
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	5	0.11
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	11	0.11
(2,645)	1:128:A:LYS:HA	1:130:A:ALA:H	8	0.11
(2,645)	1:128:A:LYS:HA	1:130:A:ALA:H	11	0.11
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	6	0.11
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	7	0.11
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	12	0.11
(2,598)	1:129:A:VAL:HG12	1:125:A:PHE:HD1	6	0.11
(2,570)	1:143:A:MET:HG2	1:151:A:ASP:H	5	0.11
(2,568)	1:143:A:MET:HG2	1:150:A:ILE:HA	20	0.11
(2,549)	1:143:A:MET:HE3	1:150:A:ILE:HG12	13	0.11
(2,540)	1:143:A:MET:HE1	1:76:A:TRP:HZ2	3	0.11
(2,540)	1:143:A:MET:HE2	1:76:A:TRP:HZ2	7	0.11
(2,540)	1:143:A:MET:HE1	1:76:A:TRP:HZ2	12	0.11
(2,538)	1:143:A:MET:HE3	1:151:A:ASP:H	3	0.11
(2,538)	1:143:A:MET:HE3	1:151:A:ASP:H	14	0.11
(2,538)	1:143:A:MET:HE2	1:151:A:ASP:H	17	0.11
(2,530)	1:143:A:MET:HE2	1:150:A:ILE:HA	10	0.11
(2,526)	1:122:A:LEU:HD12	1:75:A:GLU:H	7	0.11
(2,514)	1:122:A:LEU:HD11	1:122:A:LEU:HB2	5	0.11
(2,513)	1:122:A:LEU:HD11	1:122:A:LEU:HB3	7	0.11
(2,513)	1:122:A:LEU:HD11	1:122:A:LEU:HB3	8	0.11
(2,513)	1:122:A:LEU:HD13	1:122:A:LEU:HB3	12	0.11
(2,513)	1:122:A:LEU:HD11	1:122:A:LEU:HB3	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,513)	1:122:A:LEU:HD12	1:122:A:LEU:HB3	17	0.11
(2,461)	1:48:A:THR:HG23	1:68:A:ARG:HG2	13	0.11
(2,397)	1:134:A:LEU:HG	1:87:A:VAL:H	11	0.11
(2,381)	1:89:A:VAL:HG13	1:81:A:LEU:HD13	2	0.11
(2,368)	1:82:A:GLU:HA	1:89:A:VAL:HG21	6	0.11
(2,368)	1:82:A:GLU:HA	1:89:A:VAL:HG23	8	0.11
(2,357)	1:89:A:VAL:HG12	1:125:A:PHE:HZ	6	0.11
(2,357)	1:89:A:VAL:HG11	1:125:A:PHE:HZ	17	0.11
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	4	0.11
(2,333)	1:25:A:PRO:HD2	1:24:A:PRO:HB3	19	0.11
(2,328)	1:102:A:PRO:HA	1:102:A:PRO:HG3	10	0.11
(2,328)	1:102:A:PRO:HA	1:102:A:PRO:HG3	14	0.11
(2,328)	1:102:A:PRO:HA	1:102:A:PRO:HG3	20	0.11
(2,311)	1:92:A:LEU:HD13	1:92:A:LEU:H	2	0.11
(2,311)	1:92:A:LEU:HD11	1:92:A:LEU:H	10	0.11
(2,305)	1:92:A:LEU:HD13	1:75:A:GLU:H	17	0.11
(2,241)	1:150:A:ILE:HG22	1:151:A:ASP:H	17	0.11
(2,213)	1:158:A:LYS:HB3	1:137:A:ASN:HD21	3	0.11
(2,201)	1:160:A:ARG:HA	1:159:A:ILE:HG22	12	0.11
(2,193)	1:159:A:ILE:HA	1:160:A:ARG:HD3	5	0.11
(2,193)	1:159:A:ILE:HA	1:160:A:ARG:HD3	6	0.11
(2,193)	1:159:A:ILE:HA	1:160:A:ARG:HD3	20	0.11
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	12	0.11
(2,145)	1:66:A:THR:HB	1:52:A:ARG:HG3	13	0.11
(2,133)	1:67:A:VAL:HG13	1:66:A:THR:H	20	0.11
(2,125)	1:127:A:ASN:HA	1:127:A:ASN:HD22	11	0.11
(2,96)	1:152:A:LYS:HA	1:152:A:LYS:HG3	5	0.11
(2,96)	1:152:A:LYS:HA	1:152:A:LYS:HG3	6	0.11
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	1	0.11
(2,88)	1:78:A:ARG:HA	1:77:A:LEU:H	11	0.11
(2,72)	1:13:A:THR:HA	1:13:A:THR:HG21	15	0.11
(2,52)	1:83:A:ARG:HA	1:83:A:ARG:HD2	4	0.11
(2,40)	1:84:A:GLU:HA	1:85:A:SER:H	6	0.11
(2,8)	1:131:A:GLY:HA3	1:136:A:GLN:HE21	8	0.11
(1,43)	1:146:A:GLN:H	1:142:A:HIS:O	1	0.11
(1,43)	1:146:A:GLN:H	1:142:A:HIS:O	10	0.11
(1,43)	1:146:A:GLN:H	1:142:A:HIS:O	19	0.11
(1,21)	1:74:A:PHE:H	1:70:A:ARG:O	5	0.11
(1,21)	1:74:A:PHE:H	1:70:A:ARG:O	12	0.11
(2,4983)	1:80:A:GLU:H	1:125:A:PHE:HZ	15	0.1
(2,4967)	1:76:A:TRP:HE1	1:76:A:TRP:HA	13	0.1
(2,4967)	1:76:A:TRP:HE1	1:76:A:TRP:HA	16	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4905)	1:126:A:ILE:H	1:51:A:ILE:HG13	15	0.1
(2,4884)	1:116:A:GLU:HG2	1:120:A:GLN:HE21	12	0.1
(2,4884)	1:116:A:GLU:HG2	1:120:A:GLN:HE21	19	0.1
(2,4858)	1:159:A:ILE:H	1:138:A:GLU:HA	1	0.1
(2,4848)	1:77:A:LEU:HD23	1:77:A:LEU:H	7	0.1
(2,4844)	1:73:A:ASP:H	1:49:A:TYR:HD2	2	0.1
(2,4838)	1:65:A:SER:H	1:55:A:THR:HG22	6	0.1
(2,4830)	1:58:A:PRO:HB3	1:59:A:ILE:H	17	0.1
(2,4784)	1:23:A:GLY:H	1:24:A:PRO:HG2	8	0.1
(2,4784)	1:23:A:GLY:H	1:24:A:PRO:HG2	10	0.1
(2,4784)	1:23:A:GLY:H	1:24:A:PRO:HG2	11	0.1
(2,4769)	1:9:A:ARG:H	1:9:A:ARG:HG2	13	0.1
(2,4762)	1:26:A:SER:HB3	1:26:A:SER:H	9	0.1
(2,4749)	1:34:A:SER:H	1:33:A:VAL:HG21	12	0.1
(2,4691)	1:121:A:GLY:H	1:118:A:ARG:HB3	20	0.1
(2,4681)	1:141:A:LEU:HD21	1:137:A:ASN:H	1	0.1
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	5	0.1
(2,4674)	1:116:A:GLU:HG2	1:120:A:GLN:HE22	16	0.1
(2,4673)	1:120:A:GLN:HE22	1:117:A:GLU:HB3	6	0.1
(2,4660)	1:153:A:SER:H	1:152:A:LYS:HD3	7	0.1
(2,4634)	1:106:A:ASP:H	1:106:A:ASP:HB2	5	0.1
(2,4618)	1:85:A:SER:H	1:86:A:LYS:HG3	7	0.1
(2,4592)	1:20:A:ASP:HB3	1:21:A:ALA:H	1	0.1
(2,4574)	1:88:A:VAL:HG22	1:90:A:PRO:HD2	19	0.1
(2,4548)	1:30:A:GLU:HG3	1:31:A:ILE:H	20	0.1
(2,4535)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	19	0.1
(2,4504)	1:77:A:LEU:HD12	1:74:A:PHE:HB3	3	0.1
(2,4454)	1:31:A:ILE:HG23	1:52:A:ARG:HB2	3	0.1
(2,4454)	1:31:A:ILE:HG23	1:52:A:ARG:HB2	6	0.1
(2,4430)	1:26:A:SER:HB2	1:26:A:SER:HA	3	0.1
(2,4430)	1:26:A:SER:HB2	1:26:A:SER:HA	10	0.1
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD12	10	0.1
(2,4392)	1:78:A:ARG:HG2	1:81:A:LEU:HD11	12	0.1
(2,4363)	1:5:A:VAL:HG13	1:5:A:VAL:HB	1	0.1
(2,4363)	1:5:A:VAL:HG12	1:5:A:VAL:HB	10	0.1
(2,4302)	1:24:A:PRO:HD2	1:27:A:ASN:HD21	16	0.1
(2,4281)	1:85:A:SER:HB2	1:84:A:GLU:HA	7	0.1
(2,4264)	1:52:A:ARG:HD3	1:53:A:VAL:H	20	0.1
(2,4247)	1:12:A:ILE:HB	1:11:A:LEU:HA	1	0.1
(2,4244)	1:34:A:SER:HB2	1:32:A:ASP:HB3	12	0.1
(2,4243)	1:34:A:SER:HB3	1:32:A:ASP:HB3	2	0.1
(2,4220)	1:58:A:PRO:HG2	1:58:A:PRO:HB2	15	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4215)	1:156:A:PRO:HD3	1:139:A:ARG:HG2	9	0.1
(2,4208)	1:158:A:LYS:HD3	1:158:A:LYS:HG2	18	0.1
(2,4207)	1:158:A:LYS:HD2	1:158:A:LYS:HE3	9	0.1
(2,4207)	1:158:A:LYS:HD3	1:158:A:LYS:HE2	14	0.1
(2,4207)	1:158:A:LYS:HD3	1:158:A:LYS:HE2	16	0.1
(2,4207)	1:158:A:LYS:HD2	1:158:A:LYS:HE3	18	0.1
(2,4194)	1:10:A:ARG:HA	1:10:A:ARG:H	1	0.1
(2,4174)	1:63:A:LYS:HD3	1:55:A:THR:H	17	0.1
(2,4127)	1:149:A:ILE:HG21	1:149:A:ILE:HB	4	0.1
(2,4127)	1:149:A:ILE:HG22	1:149:A:ILE:HB	5	0.1
(2,4127)	1:149:A:ILE:HG23	1:149:A:ILE:HB	11	0.1
(2,4103)	1:51:A:ILE:HG21	1:60:A:PHE:HE2	18	0.1
(2,4098)	1:59:A:ILE:HG22	1:60:A:PHE:HB3	2	0.1
(2,4078)	1:152:A:LYS:HB2	1:152:A:LYS:HD2	5	0.1
(2,4052)	1:29:A:LEU:HD21	1:57:A:LEU:HG	5	0.1
(2,4050)	1:29:A:LEU:HD13	1:57:A:LEU:HG	3	0.1
(2,4050)	1:29:A:LEU:HD13	1:57:A:LEU:HG	19	0.1
(2,4040)	1:45:A:ARG:HD3	1:38:A:THR:HG21	3	0.1
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD11	1	0.1
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	3	0.1
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD12	4	0.1
(2,4002)	1:149:A:ILE:HG13	1:149:A:ILE:HD13	13	0.1
(2,4001)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	1	0.1
(2,4001)	1:149:A:ILE:HG12	1:149:A:ILE:HD13	3	0.1
(2,4001)	1:149:A:ILE:HG12	1:149:A:ILE:HD12	5	0.1
(2,4001)	1:149:A:ILE:HG12	1:149:A:ILE:HD13	11	0.1
(2,3996)	1:101:A:LEU:HD21	1:101:A:LEU:HG	4	0.1
(2,3996)	1:101:A:LEU:HD22	1:101:A:LEU:HG	19	0.1
(2,3988)	1:26:A:SER:HB3	1:27:A:ASN:HB3	13	0.1
(2,3987)	1:26:A:SER:HB3	1:27:A:ASN:HB3	13	0.1
(2,3974)	1:3:A:GLU:HG2	1:3:A:GLU:HB3	19	0.1
(2,3952)	1:114:A:PHE:HB2	1:117:A:GLU:HB2	12	0.1
(2,3952)	1:114:A:PHE:HB2	1:117:A:GLU:HB2	13	0.1
(2,3916)	1:119:A:LYS:HE2	1:120:A:GLN:HB3	13	0.1
(2,3908)	1:119:A:LYS:HD2	1:119:A:LYS:H	8	0.1
(2,3856)	1:124:A:GLN:HA	1:124:A:GLN:HG2	16	0.1
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	15	0.1
(2,3854)	1:124:A:GLN:HB3	1:125:A:PHE:H	19	0.1
(2,3819)	1:128:A:LYS:HD2	1:125:A:PHE:H	1	0.1
(2,3795)	1:130:A:ALA:HB1	1:131:A:GLY:H	16	0.1
(2,3770)	1:126:A:ILE:HG21	1:123:A:GLU:H	13	0.1
(2,3718)	1:25:A:PRO:HD2	1:24:A:PRO:HB2	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3717)	1:25:A:PRO:HD3	1:25:A:PRO:HG3	6	0.1
(2,3714)	1:15:A:PRO:HD3	1:14:A:LYS:HG3	14	0.1
(2,3703)	1:92:A:LEU:HD12	1:78:A:ARG:HB2	20	0.1
(2,3612)	1:32:A:ASP:HB2	1:52:A:ARG:HD3	14	0.1
(2,3584)	1:108:A:GLY:H	1:109:A:ILE:HA	5	0.1
(2,3584)	1:108:A:GLY:H	1:109:A:ILE:HA	6	0.1
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	4	0.1
(2,3536)	1:100:A:GLN:HE22	1:100:A:GLN:HB3	5	0.1
(2,3530)	1:2:A:ALA:H	1:1:A:THR:HB	9	0.1
(2,3523)	1:162:A:ALA:HB2	1:162:A:ALA:H	19	0.1
(2,3522)	1:161:A:HIS:HA	1:162:A:ALA:H	11	0.1
(2,3520)	1:161:A:HIS:HB3	1:162:A:ALA:H	14	0.1
(2,3506)	1:37:A:GLN:HE22	1:39:A:VAL:HG23	6	0.1
(2,3419)	1:124:A:GLN:HE21	1:123:A:GLU:HG3	10	0.1
(2,3406)	1:123:A:GLU:H	1:124:A:GLN:HA	14	0.1
(2,3347)	1:107:A:ASP:H	1:105:A:GLY:HA2	8	0.1
(2,3347)	1:107:A:ASP:H	1:105:A:GLY:HA2	13	0.1
(2,3305)	1:84:A:GLU:HG2	1:84:A:GLU:H	6	0.1
(2,3301)	1:87:A:VAL:HG23	1:81:A:LEU:H	17	0.1
(2,3252)	1:62:A:LEU:HD23	1:64:A:GLU:H	18	0.1
(2,3248)	1:129:A:VAL:HG23	1:132:A:HIS:H	3	0.1
(2,3199)	1:39:A:VAL:HG12	1:46:A:PHE:H	7	0.1
(2,3036)	1:13:A:THR:H	1:12:A:ILE:HB	7	0.1
(2,3024)	1:11:A:LEU:HD13	1:10:A:ARG:H	10	0.1
(2,3021)	1:8:A:THR:H	1:9:A:ARG:H	7	0.1
(2,3012)	1:8:A:THR:H	1:7:A:ASP:HB2	16	0.1
(2,2997)	1:6:A:ALA:H	1:5:A:VAL:HB	7	0.1
(2,2851)	1:99:A:ARG:HB2	1:101:A:LEU:H	18	0.1
(2,2783)	1:41:A:VAL:H	1:45:A:ARG:HD3	1	0.1
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	2	0.1
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	11	0.1
(2,2769)	1:45:A:ARG:H	1:42:A:GLY:H	19	0.1
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	1	0.1
(2,2724)	1:19:A:ASN:HB3	1:19:A:ASN:HD22	10	0.1
(2,2716)	1:35:A:ASN:HD22	1:35:A:ASN:HA	16	0.1
(2,2700)	1:37:A:GLN:HE22	1:39:A:VAL:H	4	0.1
(2,2672)	1:102:A:PRO:HB2	1:103:A:PHE:H	12	0.1
(2,2624)	1:148:A:GLU:H	1:147:A:ASP:HB3	7	0.1
(2,2624)	1:148:A:GLU:H	1:147:A:ASP:HB3	11	0.1
(2,2535)	1:85:A:SER:HB3	1:85:A:SER:H	15	0.1
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	2	0.1
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	12	0.1
(2,2520)	1:92:A:LEU:H	1:125:A:PHE:HE1	13	0.1
(2,2444)	1:67:A:VAL:HG11	1:68:A:ARG:H	17	0.1
(2,2423)	1:21:A:ALA:H	1:22:A:TYR:HD1	15	0.1
(2,2405)	1:109:A:ILE:HB	1:115:A:ILE:HA	11	0.1
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	2	0.1
(2,2386)	1:90:A:PRO:HB2	1:91:A:PRO:HD3	16	0.1
(2,2249)	1:129:A:VAL:HA	1:126:A:ILE:HD11	1	0.1
(2,2182)	1:145:A:LEU:HB3	1:53:A:VAL:HG13	5	0.1
(2,2153)	1:36:A:PRO:HG3	1:47:A:THR:HG22	7	0.1
(2,2145)	1:33:A:VAL:HB	1:123:A:GLU:HA	14	0.1
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	3	0.1
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	13	0.1
(2,2124)	1:27:A:ASN:HA	1:57:A:LEU:HG	19	0.1
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG22	1	0.1
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG22	3	0.1
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG21	4	0.1
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG22	9	0.1
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG21	13	0.1
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG23	15	0.1
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG22	16	0.1
(2,2075)	1:1:A:THR:HB	1:1:A:THR:HG23	20	0.1
(2,2064)	1:33:A:VAL:HB	1:123:A:GLU:H	4	0.1
(2,1944)	1:144:A:PHE:HA	1:144:A:PHE:HZ	10	0.1
(2,1944)	1:144:A:PHE:HA	1:144:A:PHE:HZ	14	0.1
(2,1915)	1:134:A:LEU:HD23	1:86:A:LYS:HB3	4	0.1
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	2	0.1
(2,1875)	1:103:A:PHE:HB3	1:104:A:ARG:HA	9	0.1
(2,1859)	1:98:A:LEU:HB3	1:98:A:LEU:HD13	1	0.1
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG22	13	0.1
(2,1828)	1:88:A:VAL:HA	1:88:A:VAL:HG21	15	0.1
(2,1790)	1:83:A:ARG:HD3	1:83:A:ARG:H	6	0.1
(2,1784)	1:83:A:ARG:HG3	1:84:A:GLU:H	10	0.1
(2,1769)	1:75:A:GLU:HG2	1:76:A:TRP:H	8	0.1
(2,1723)	1:63:A:LYS:HA	1:55:A:THR:H	1	0.1
(2,1617)	1:50:A:GLU:HG2	1:67:A:VAL:HG22	18	0.1
(2,1609)	1:50:A:GLU:HG3	1:35:A:ASN:HB3	7	0.1
(2,1609)	1:50:A:GLU:HG3	1:35:A:ASN:HB3	11	0.1
(2,1609)	1:50:A:GLU:HG3	1:35:A:ASN:HB3	13	0.1
(2,1609)	1:50:A:GLU:HG3	1:35:A:ASN:HB3	14	0.1
(2,1589)	1:141:A:LEU:HB2	1:141:A:LEU:HD12	4	0.1
(2,1583)	1:141:A:LEU:HD13	1:138:A:GLU:H	7	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1522)	1:57:A:LEU:HD13	1:60:A:PHE:HZ	9	0.1
(2,1511)	1:59:A:ILE:HG23	1:57:A:LEU:HG	13	0.1
(2,1450)	1:90:A:PRO:HD3	1:128:A:LYS:HB3	5	0.1
(2,1450)	1:90:A:PRO:HD3	1:128:A:LYS:HB3	13	0.1
(2,1411)	1:39:A:VAL:HB	1:39:A:VAL:HG21	14	0.1
(2,1406)	1:39:A:VAL:HG22	1:39:A:VAL:HA	10	0.1
(2,1375)	1:96:A:ALA:HB1	1:98:A:LEU:H	9	0.1
(2,1341)	1:57:A:LEU:HB2	1:59:A:ILE:HG22	9	0.1
(2,1339)	1:59:A:ILE:HG21	1:58:A:PRO:HD3	12	0.1
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG21	1	0.1
(2,1322)	1:149:A:ILE:HG13	1:149:A:ILE:HG23	6	0.1
(2,1310)	1:149:A:ILE:HG23	1:148:A:GLU:H	9	0.1
(2,1249)	1:101:A:LEU:HB3	1:101:A:LEU:H	10	0.1
(2,1244)	1:81:A:LEU:HD21	1:135:A:ALA:HB1	1	0.1
(2,1203)	1:29:A:LEU:HD21	1:31:A:ILE:HD12	1	0.1
(2,1185)	1:29:A:LEU:HB2	1:31:A:ILE:HD11	10	0.1
(2,1113)	1:149:A:ILE:HD12	1:149:A:ILE:HB	16	0.1
(2,1042)	1:149:A:ILE:HA	1:149:A:ILE:HG12	18	0.1
(2,1040)	1:149:A:ILE:HG12	1:148:A:GLU:H	12	0.1
(2,994)	1:102:A:PRO:HD3	1:101:A:LEU:HD23	20	0.1
(2,918)	1:109:A:ILE:HG22	1:114:A:PHE:HE2	11	0.1
(2,896)	1:113:A:ASN:HB2	1:117:A:GLU:HG2	20	0.1
(2,754)	1:119:A:LYS:HA	1:122:A:LEU:HD21	2	0.1
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	3	0.1
(2,707)	1:124:A:GLN:HB3	1:124:A:GLN:HG2	19	0.1
(2,687)	1:82:A:GLU:HG2	1:83:A:ARG:H	6	0.1
(2,687)	1:82:A:GLU:HG2	1:83:A:ARG:H	19	0.1
(2,673)	1:55:A:THR:HG22	1:62:A:LEU:H	12	0.1
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	10	0.1
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	14	0.1
(2,647)	1:128:A:LYS:HB2	1:130:A:ALA:H	15	0.1
(2,645)	1:128:A:LYS:HA	1:130:A:ALA:H	5	0.1
(2,645)	1:128:A:LYS:HA	1:130:A:ALA:H	9	0.1
(2,641)	1:128:A:LYS:HG2	1:129:A:VAL:H	17	0.1
(2,521)	1:122:A:LEU:HD13	1:49:A:TYR:HD2	14	0.1
(2,514)	1:122:A:LEU:HD13	1:122:A:LEU:HB2	16	0.1
(2,513)	1:122:A:LEU:HD12	1:122:A:LEU:HB3	2	0.1
(2,513)	1:122:A:LEU:HD11	1:122:A:LEU:HB3	4	0.1
(2,513)	1:122:A:LEU:HD12	1:122:A:LEU:HB3	9	0.1
(2,513)	1:122:A:LEU:HD11	1:122:A:LEU:HB3	18	0.1
(2,513)	1:122:A:LEU:HD13	1:122:A:LEU:HB3	19	0.1
(2,406)	1:87:A:VAL:HB	1:87:A:VAL:HG22	1	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,406)	1:87:A:VAL:HB	1:87:A:VAL:HG21	14	0.1
(2,311)	1:92:A:LEU:HD12	1:92:A:LEU:H	17	0.1
(2,305)	1:92:A:LEU:HD12	1:75:A:GLU:H	1	0.1
(2,291)	1:92:A:LEU:HD23	1:93:A:PRO:HD3	15	0.1
(2,246)	1:150:A:ILE:HG12	1:150:A:ILE:H	4	0.1
(2,193)	1:159:A:ILE:HA	1:160:A:ARG:HD3	14	0.1
(1,21)	1:74:A:PHE:H	1:70:A:ARG:O	11	0.1

10 Dihedral-angle violation analysis

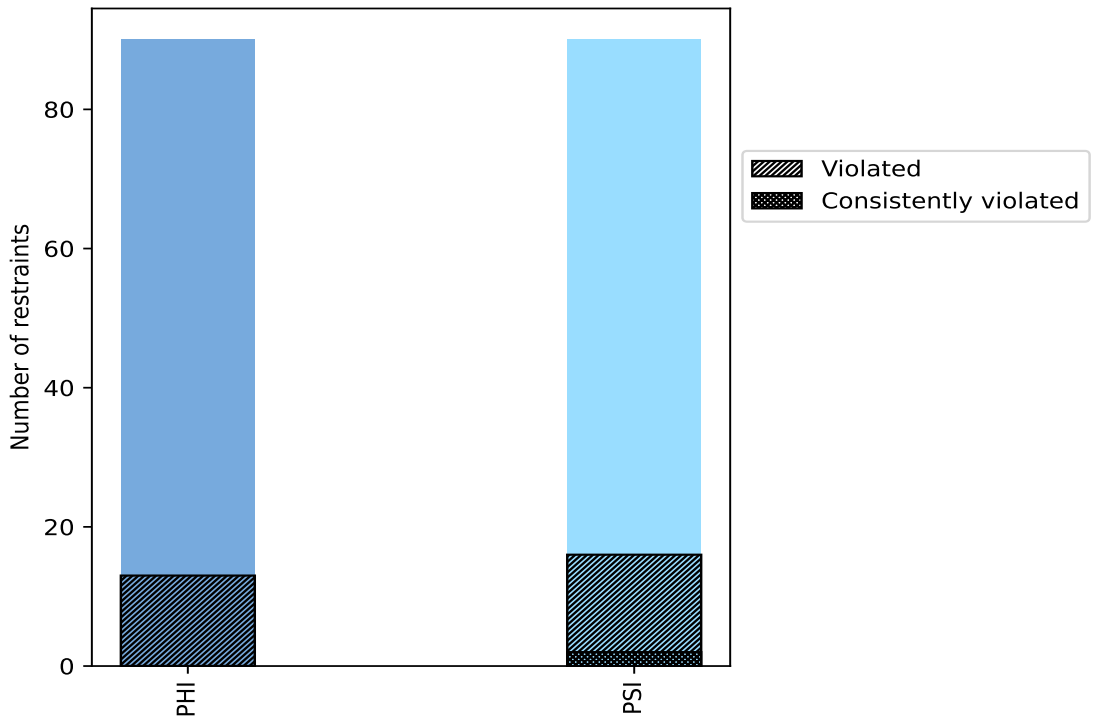
10.1 Summary of dihedral-angle violations

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

Angle type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
PHI	90	50.0	13	14.4	7.2	0	0.0	0.0
PSI	90	50.0	16	17.8	8.9	2	2.2	1.1
Total	180	100.0	29	16.1	16.1	2	1.1	1.1

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

10.1.1 Bar chart : Distribution of dihedral-angles and violations



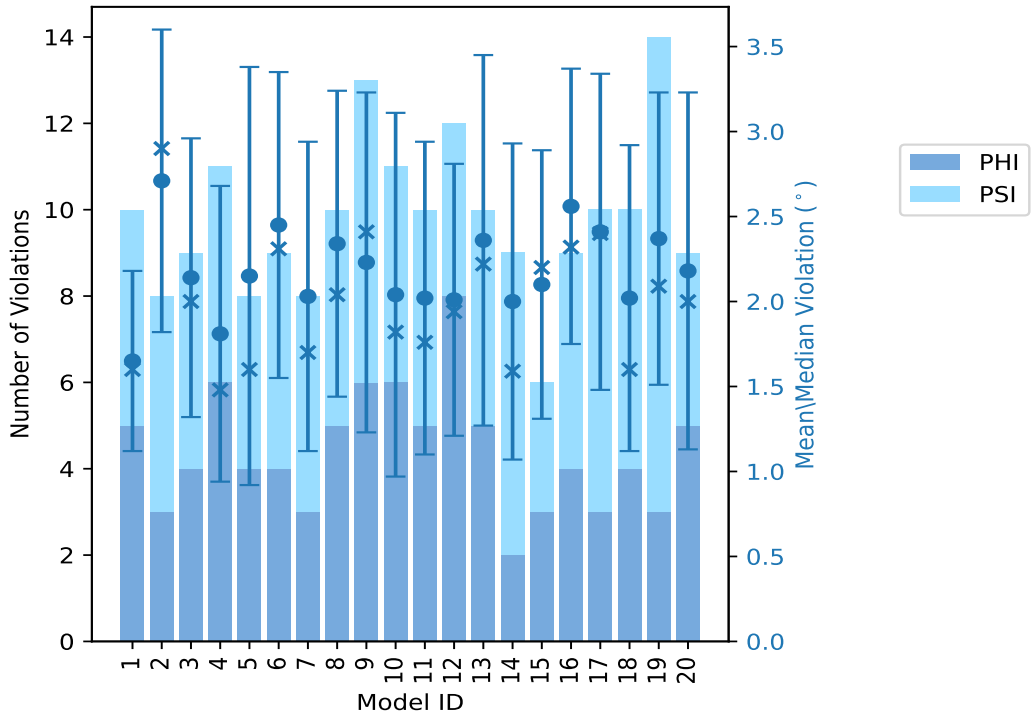
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	5	5	10	1.65	3.07	0.53	1.6
2	3	5	8	2.71	3.69	0.89	2.9
3	4	5	9	2.14	3.44	0.82	2.0
4	6	5	11	1.81	3.75	0.87	1.48
5	4	4	8	2.15	4.85	1.23	1.6
6	4	5	9	2.45	4.12	0.9	2.31
7	3	5	8	2.03	4.08	0.91	1.7
8	5	5	10	2.34	4.74	0.9	2.04
9	6	7	13	2.23	4.74	1.0	2.41
10	6	5	11	2.04	4.93	1.07	1.82
11	5	5	10	2.02	4.18	0.92	1.76
12	8	4	12	2.01	3.46	0.8	1.94
13	5	5	10	2.36	4.85	1.09	2.22
14	2	7	9	2.0	3.91	0.93	1.59
15	3	3	6	2.1	3.45	0.79	2.2
16	4	5	9	2.56	4.62	0.81	2.32
17	3	7	10	2.41	4.39	0.93	2.4
18	4	6	10	2.02	3.95	0.9	1.6
19	3	11	14	2.37	4.2	0.86	2.09
20	5	4	9	2.18	4.64	1.05	2.0

10.2.1 Bar graph : Dihedral violation statistics for each model



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

10.3 Dihedral-angle violation statistics for the ensemble

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

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

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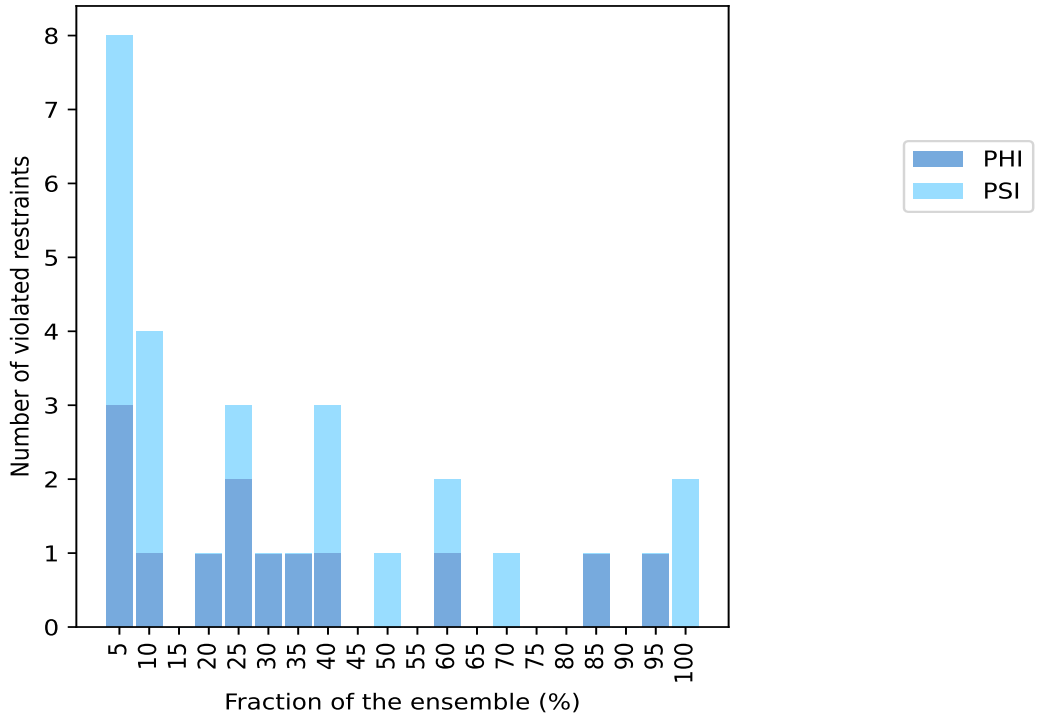
Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count[1]	%
1	1	2	12	60.0
0	0	0	13	65.0
0	1	1	14	70.0
0	0	0	15	75.0
0	0	0	16	80.0
1	0	1	17	85.0
0	0	0	18	90.0
1	0	1	19	95.0
0	2	2	20	100.0

[1] Number of models with violations

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

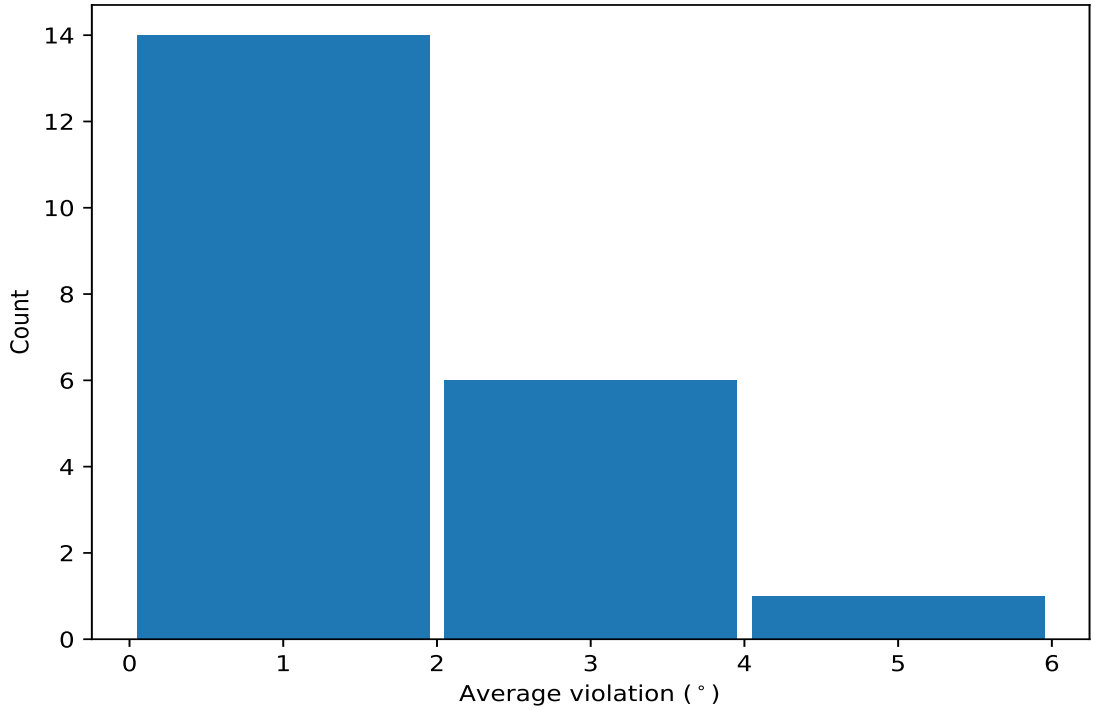


10.4 Most violated dihedral-angle restraints in the ensemble

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
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	20	4.12	0.57	4.1
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	20	2.39	0.65	2.3
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	19	2.76	0.51	2.65
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	17	2.16	0.61	2.12
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	14	2.13	0.63	2.1
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	12	2.02	0.61	2.09
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	12	1.69	0.37	1.77
(1,24)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:VAL:N	10	1.84	0.67	1.73
(1,94)	1:83:A:ARG:N	1:83:A:ARG:CA	1:83:A:ARG:C	1:84:A:GLU:N	8	2.39	0.87	2.38
(1,176)	1:153:A:SER:N	1:153:A:SER:CA	1:153:A:SER:C	1:154:A:TYR:N	8	1.89	0.5	1.79
(1,33)	1:47:A:THR:C	1:48:A:THR:N	1:48:A:THR:CA	1:48:A:THR:C	8	1.3	0.18	1.27
(1,47)	1:54:A:LYS:C	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	7	1.64	0.55	1.49
(1,39)	1:50:A:GLU:C	1:51:A:ILE:N	1:51:A:ILE:CA	1:51:A:ILE:C	6	1.39	0.19	1.4
(1,178)	1:154:A:TYR:N	1:154:A:TYR:CA	1:154:A:TYR:C	1:155:A:THR:N	5	1.4	0.31	1.26
(1,143)	1:131:A:GLY:C	1:132:A:HIS:N	1:132:A:HIS:CA	1:132:A:HIS:C	5	1.3	0.18	1.21
(1,13)	1:33:A:VAL:C	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	5	1.21	0.2	1.15
(1,165)	1:143:A:MET:C	1:144:A:PHE:N	1:144:A:PHE:CA	1:144:A:PHE:C	4	1.42	0.42	1.28
(1,117)	1:117:A:GLU:C	1:118:A:ARG:N	1:118:A:ARG:CA	1:118:A:ARG:C	2	1.56	0.36	1.56
(1,108)	1:113:A:ASN:N	1:113:A:ASN:CA	1:113:A:ASN:C	1:114:A:PHE:N	2	1.49	0.09	1.49
(1,22)	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	1:40:A:GLY:N	2	1.3	0.12	1.3

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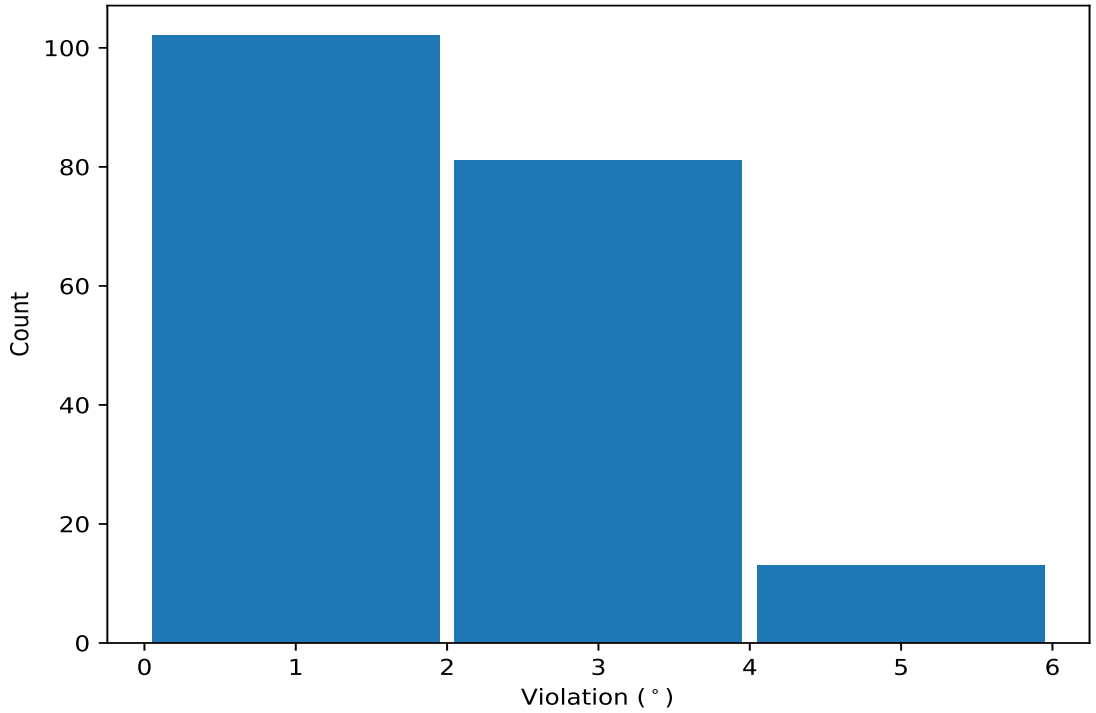
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,104)	1:93:A:PRO:N	1:93:A:PRO:CA	1:93:A:PRO:C	1:94:A:GLY:N	2	1.25	0.12	1.25

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

10.5 All violated dihedral-angle restraints

10.5.1 Histogram : Distribution of violations

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



10.5.2 Table: All violated dihedral-angle restraints

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 (°)
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	10	4.93
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	5	4.85
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	13	4.85
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	8	4.74
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	9	4.74
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	20	4.64

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	16	4.62
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	17	4.39
(1,94)	1:83:A:ARG:N	1:83:A:ARG:CA	1:83:A:ARG:C	1:84:A:GLU:N	19	4.2
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	11	4.18
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	6	4.12
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	7	4.08
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	19	4.0
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	18	3.95
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	14	3.91
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	4	3.75
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	2	3.69
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	2	3.55
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	4	3.5
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	12	3.46
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	15	3.45
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	6	3.45
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	3	3.44
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	2	3.43
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	13	3.29
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	3	3.27
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	14	3.27
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	2	3.22
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	6	3.18
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	5	3.16
(1,140)	1:129:A:VAL:N	1:129:A:VAL:CA	1:129:A:VAL:C	1:130:A:ALA:N	1	3.07
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	18	3.07
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	20	3.04
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	17	3.02
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	11	3.01
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	9	3.01
(1,176)	1:153:A:SER:N	1:153:A:SER:CA	1:153:A:SER:C	1:154:A:TYR:N	9	3.0
(1,94)	1:83:A:ARG:N	1:83:A:ARG:CA	1:83:A:ARG:C	1:84:A:GLU:N	8	2.99
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	17	2.98
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	19	2.96
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	19	2.93
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	12	2.93
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	13	2.92
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	16	2.92
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	10	2.92
(1,24)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:VAL:N	18	2.91
(1,47)	1:54:A:LYS:C	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	3	2.9
(1,24)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:VAL:N	17	2.85
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	12	2.85
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	7	2.83
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	9	2.7
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	13	2.66
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	16	2.65
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	8	2.61
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	19	2.59
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	2	2.59
(1,94)	1:83:A:ARG:N	1:83:A:ARG:CA	1:83:A:ARG:C	1:84:A:GLU:N	2	2.53

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	12	2.53
(1,94)	1:83:A:ARG:N	1:83:A:ARG:CA	1:83:A:ARG:C	1:84:A:GLU:N	9	2.52
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	5	2.51
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	9	2.45
(1,24)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:VAL:N	16	2.44
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	6	2.43
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	12	2.42
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	15	2.42
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	9	2.41
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	17	2.41
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	10	2.41
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	11	2.39
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	17	2.39
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	20	2.37
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	16	2.32
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	12	2.32
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	16	2.31
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	6	2.31
(1,172)	1:151:A:ASP:N	1:151:A:ASP:CA	1:151:A:ASP:C	1:152:A:LYS:N	19	2.29
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	15	2.28
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	14	2.27
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	16	2.27
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	20	2.26
(1,94)	1:83:A:ARG:N	1:83:A:ARG:CA	1:83:A:ARG:C	1:84:A:GLU:N	13	2.23
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	13	2.21
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	3	2.2
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	10	2.19
(1,142)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:GLY:N	19	2.13
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	15	2.12
(1,165)	1:143:A:MET:C	1:144:A:PHE:N	1:144:A:PHE:CA	1:144:A:PHE:C	11	2.11
(1,176)	1:153:A:SER:N	1:153:A:SER:CA	1:153:A:SER:C	1:154:A:TYR:N	8	2.09
(1,176)	1:153:A:SER:N	1:153:A:SER:CA	1:153:A:SER:C	1:154:A:TYR:N	19	2.06
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	8	2.06
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	9	2.03
(1,37)	1:49:A:TYR:C	1:50:A:GLU:N	1:50:A:GLU:CA	1:50:A:GLU:C	8	2.02
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	20	2.0
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	3	2.0
(1,178)	1:154:A:TYR:N	1:154:A:TYR:CA	1:154:A:TYR:C	1:155:A:THR:N	19	1.98
(1,176)	1:153:A:SER:N	1:153:A:SER:CA	1:153:A:SER:C	1:154:A:TYR:N	17	1.98
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	7	1.98
(1,24)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:VAL:N	6	1.98
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	11	1.98
(1,24)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:VAL:N	19	1.96
(1,117)	1:117:A:GLU:C	1:118:A:ARG:N	1:118:A:ARG:CA	1:118:A:ARG:C	1	1.93
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	8	1.91
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	14	1.9
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	18	1.87
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	10	1.86
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	5	1.85
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	19	1.84
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	10	1.82

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	8	1.81
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	7	1.79
(1,94)	1:83:A:ARG:N	1:83:A:ARG:CA	1:83:A:ARG:C	1:84:A:GLU:N	16	1.77
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	18	1.76
(1,47)	1:54:A:LYS:C	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	16	1.75
(1,180)	1:155:A:THR:N	1:155:A:THR:CA	1:155:A:THR:C	1:156:A:PRO:N	17	1.74
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	6	1.73
(1,94)	1:83:A:ARG:N	1:83:A:ARG:CA	1:83:A:ARG:C	1:84:A:GLU:N	1	1.7
(1,39)	1:50:A:GLU:C	1:51:A:ILE:N	1:51:A:ILE:CA	1:51:A:ILE:C	8	1.69
(1,47)	1:54:A:LYS:C	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	13	1.65
(1,23)	1:39:A:VAL:C	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1	1.64
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	19	1.61
(1,176)	1:153:A:SER:N	1:153:A:SER:CA	1:153:A:SER:C	1:154:A:TYR:N	7	1.6
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	1	1.6
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	3	1.6
(1,176)	1:153:A:SER:N	1:153:A:SER:CA	1:153:A:SER:C	1:154:A:TYR:N	1	1.59
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	14	1.59
(1,108)	1:113:A:ASN:N	1:113:A:ASN:CA	1:113:A:ASN:C	1:114:A:PHE:N	14	1.58
(1,143)	1:131:A:GLY:C	1:132:A:HIS:N	1:132:A:HIS:CA	1:132:A:HIS:C	6	1.57
(1,33)	1:47:A:THR:C	1:48:A:THR:N	1:48:A:THR:CA	1:48:A:THR:C	4	1.57
(1,13)	1:33:A:VAL:C	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	12	1.57
(1,176)	1:153:A:SER:N	1:153:A:SER:CA	1:153:A:SER:C	1:154:A:TYR:N	2	1.55
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	13	1.53
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	11	1.53
(1,39)	1:50:A:GLU:C	1:51:A:ILE:N	1:51:A:ILE:CA	1:51:A:ILE:C	4	1.52
(1,33)	1:47:A:THR:C	1:48:A:THR:N	1:48:A:THR:CA	1:48:A:THR:C	8	1.51
(1,24)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:VAL:N	9	1.5
(1,47)	1:54:A:LYS:C	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	12	1.49
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	4	1.49
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	4	1.48
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	20	1.48
(1,39)	1:50:A:GLU:C	1:51:A:ILE:N	1:51:A:ILE:CA	1:51:A:ILE:C	11	1.46
(1,178)	1:154:A:TYR:N	1:154:A:TYR:CA	1:154:A:TYR:C	1:155:A:THR:N	4	1.44
(1,33)	1:47:A:THR:C	1:48:A:THR:N	1:48:A:THR:CA	1:48:A:THR:C	20	1.44
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	4	1.44
(1,143)	1:131:A:GLY:C	1:132:A:HIS:N	1:132:A:HIS:CA	1:132:A:HIS:C	18	1.43
(1,22)	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	1:40:A:GLY:N	3	1.42
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	19	1.41
(1,108)	1:113:A:ASN:N	1:113:A:ASN:CA	1:113:A:ASN:C	1:114:A:PHE:N	7	1.4
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	11	1.4
(1,165)	1:143:A:MET:C	1:144:A:PHE:N	1:144:A:PHE:CA	1:144:A:PHE:C	4	1.39
(1,104)	1:93:A:PRO:N	1:93:A:PRO:CA	1:93:A:PRO:C	1:94:A:GLY:N	10	1.37
(1,33)	1:47:A:THR:C	1:48:A:THR:N	1:48:A:THR:CA	1:48:A:THR:C	7	1.37
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	18	1.37
(1,93)	1:82:A:GLU:C	1:83:A:ARG:N	1:83:A:ARG:CA	1:83:A:ARG:C	5	1.36
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	1	1.36
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	3	1.36
(1,47)	1:54:A:LYS:C	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	9	1.36
(1,39)	1:50:A:GLU:C	1:51:A:ILE:N	1:51:A:ILE:CA	1:51:A:ILE:C	10	1.34
(1,57)	1:64:A:GLU:C	1:65:A:SER:N	1:65:A:SER:CA	1:65:A:SER:C	18	1.33
(1,24)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:VAL:N	20	1.28

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,178)	1:154:A:TYR:N	1:154:A:TYR:CA	1:154:A:TYR:C	1:155:A:THR:N	6	1.26
(1,176)	1:153:A:SER:N	1:153:A:SER:CA	1:153:A:SER:C	1:154:A:TYR:N	18	1.26
(1,14)	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	1:35:A:ASN:N	5	1.26
(1,13)	1:33:A:VAL:C	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	10	1.25
(1,146)	1:133:A:PRO:N	1:133:A:PRO:CA	1:133:A:PRO:C	1:134:A:LEU:N	19	1.24
(1,47)	1:54:A:LYS:C	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1	1.23
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	1	1.22
(1,24)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:VAL:N	10	1.22
(1,178)	1:154:A:TYR:N	1:154:A:TYR:CA	1:154:A:TYR:C	1:155:A:THR:N	18	1.21
(1,143)	1:131:A:GLY:C	1:132:A:HIS:N	1:132:A:HIS:CA	1:132:A:HIS:C	7	1.21
(1,117)	1:117:A:GLU:C	1:118:A:ARG:N	1:118:A:ARG:CA	1:118:A:ARG:C	12	1.2
(1,143)	1:131:A:GLY:C	1:132:A:HIS:N	1:132:A:HIS:CA	1:132:A:HIS:C	12	1.19
(1,54)	1:59:A:ILE:N	1:59:A:ILE:CA	1:59:A:ILE:C	1:60:A:PHE:N	17	1.19
(1,24)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:VAL:N	14	1.19
(1,39)	1:50:A:GLU:C	1:51:A:ILE:N	1:51:A:ILE:CA	1:51:A:ILE:C	15	1.18
(1,165)	1:143:A:MET:C	1:144:A:PHE:N	1:144:A:PHE:CA	1:144:A:PHE:C	13	1.17
(1,22)	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	1:40:A:GLY:N	4	1.17
(1,33)	1:47:A:THR:C	1:48:A:THR:N	1:48:A:THR:CA	1:48:A:THR:C	1	1.16
(1,94)	1:83:A:ARG:N	1:83:A:ARG:CA	1:83:A:ARG:C	1:84:A:GLU:N	14	1.15
(1,13)	1:33:A:VAL:C	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	2	1.15
(1,104)	1:93:A:PRO:N	1:93:A:PRO:CA	1:93:A:PRO:C	1:94:A:GLY:N	11	1.14
(1,39)	1:50:A:GLU:C	1:51:A:ILE:N	1:51:A:ILE:CA	1:51:A:ILE:C	9	1.14
(1,33)	1:47:A:THR:C	1:48:A:THR:N	1:48:A:THR:CA	1:48:A:THR:C	9	1.14
(1,178)	1:154:A:TYR:N	1:154:A:TYR:CA	1:154:A:TYR:C	1:155:A:THR:N	15	1.13
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	4	1.12
(1,47)	1:54:A:LYS:C	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	17	1.12
(1,174)	1:152:A:LYS:N	1:152:A:LYS:CA	1:152:A:LYS:C	1:153:A:SER:N	14	1.11
(1,59)	1:65:A:SER:C	1:66:A:THR:N	1:66:A:THR:CA	1:66:A:THR:C	12	1.11
(1,48)	1:55:A:THR:N	1:55:A:THR:CA	1:55:A:THR:C	1:56:A:ASN:N	5	1.11
(1,33)	1:47:A:THR:C	1:48:A:THR:N	1:48:A:THR:CA	1:48:A:THR:C	3	1.11
(1,27)	1:43:A:ARG:C	1:44:A:GLY:N	1:44:A:GLY:CA	1:44:A:GLY:C	5	1.1
(1,143)	1:131:A:GLY:C	1:132:A:HIS:N	1:132:A:HIS:CA	1:132:A:HIS:C	20	1.09
(1,33)	1:47:A:THR:C	1:48:A:THR:N	1:48:A:THR:CA	1:48:A:THR:C	10	1.09
(1,13)	1:33:A:VAL:C	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	13	1.04
(1,165)	1:143:A:MET:C	1:144:A:PHE:N	1:144:A:PHE:CA	1:144:A:PHE:C	12	1.03
(1,24)	1:40:A:GLY:N	1:40:A:GLY:CA	1:40:A:GLY:C	1:41:A:VAL:N	11	1.03
(1,13)	1:33:A:VAL:C	1:34:A:SER:N	1:34:A:SER:CA	1:34:A:SER:C	9	1.02