



Full wwPDB NMR Structure Validation Report ⓘ

Nov 7, 2023 – 05:40 AM EST

PDB ID : 2MC0
BMRB ID : 19422
Title : Structural Basis of a Thiopeptide Antibiotic Multidrug Resistance System from
Streptomyces lividans:Nosiheptide in Complex with TipAS
Authors : Habazettl, J.; Allan, M.G.; Jensen, P.; Sass, H.; Grzesiek, S.
Deposited on : 2013-08-12

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:

Cyrange : Kirchner and Güntert (2011)
NmrClust : Kelley et al. (1996)
MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
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) : 2.36

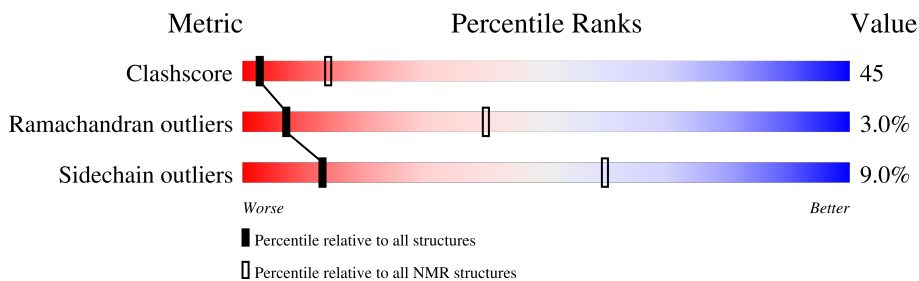
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 89%.

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	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	144	
2	B	13	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA and RNA chains that are outliers for geometric criteria:

Mol	Chain	Compound	Res	Total models with violations	
				Chirality	Geometry
2	B	BB9	509	-	10
2	B	DBU	504	-	2
2	B	MH6	510	-	10

2 Ensemble composition and analysis

This entry contains 10 models. Model 4 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:112-A:209, A:214-A:253, B:501-B:501, B:503-B:503, B:508-B:508, B:512-B:512 (142)	0.54	4

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 1 single-model cluster was found.

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

3 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 2330 atoms, of which 1094 are hydrogens and 0 are deuteriums.

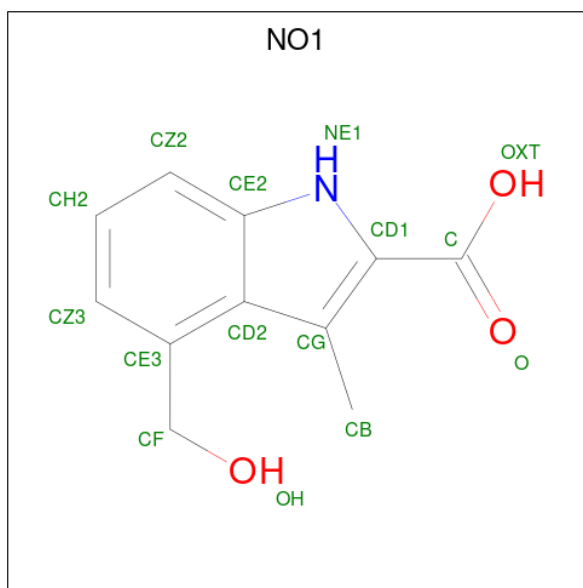
- Molecule 1 is a protein called HTH-type transcriptional activator TipA.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	A	143	2207	706	1053	204	237	7	0

- Molecule 2 is a protein called nosiheptide.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
2	B	13	101	40	32	12	11	6	1

- Molecule 3 is 4-(hydroxymethyl)-3-methyl-1H-indole-2-carboxylic acid (three-letter code: NO1) (formula: C₁₁H₁₁NO₃).



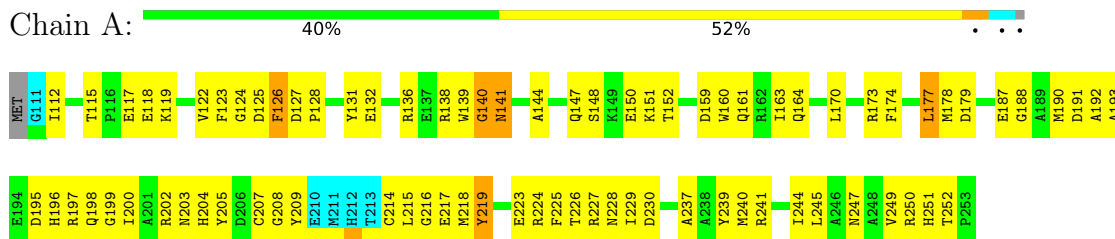
Mol	Chain	Residues	Atoms				
			Total	C	H	N	O
3	B	1	22	11	9	1	1

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: HTH-type transcriptional activator TipA



- Molecule 2: nosiheptide

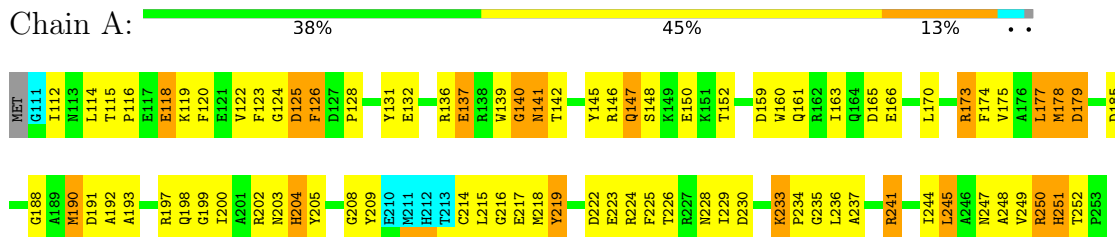


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: HTH-type transcriptional activator TipA



- Molecule 2: nosiheptide



4.2.2 Score per residue for model 2

- Molecule 1: HTH-type transcriptional activator TipA

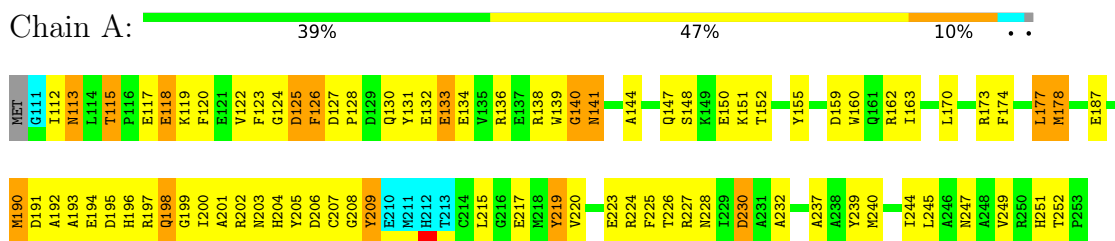


- Molecule 2: nosiheptide



4.2.3 Score per residue for model 3

- Molecule 1: HTH-type transcriptional activator TipA

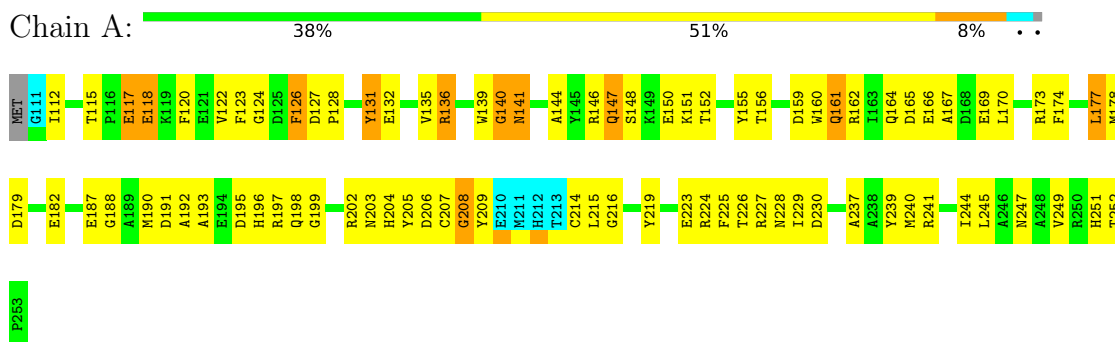


- Molecule 2: nosiheptide



4.2.4 Score per residue for model 4 (medoid)

- Molecule 1: HTH-type transcriptional activator TipA

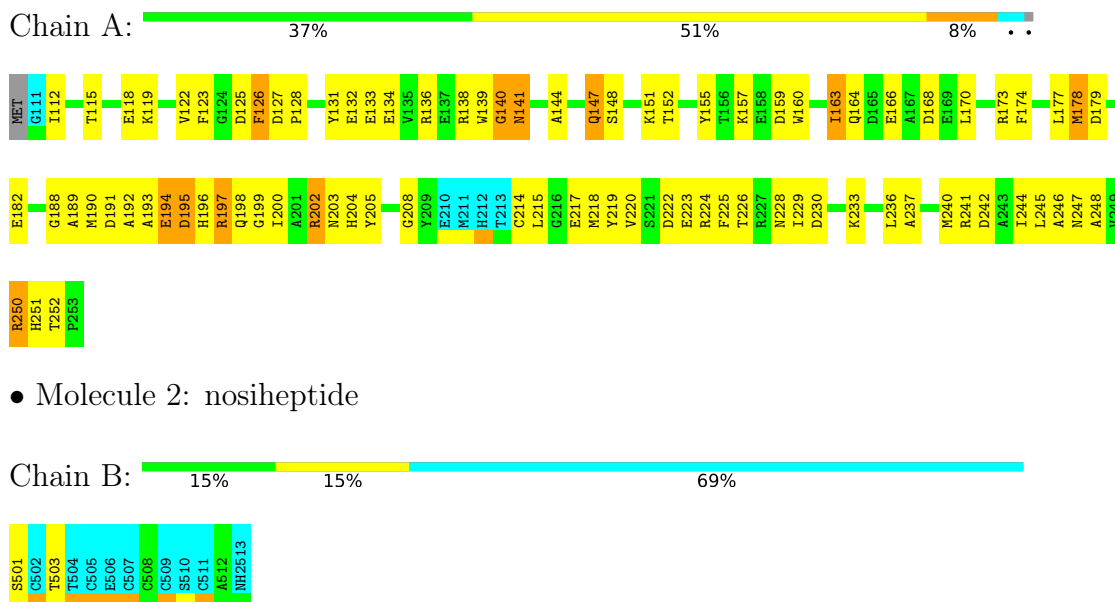


- Molecule 2: nosiheptide



4.2.5 Score per residue for model 5

- Molecule 1: HTH-type transcriptional activator TipA



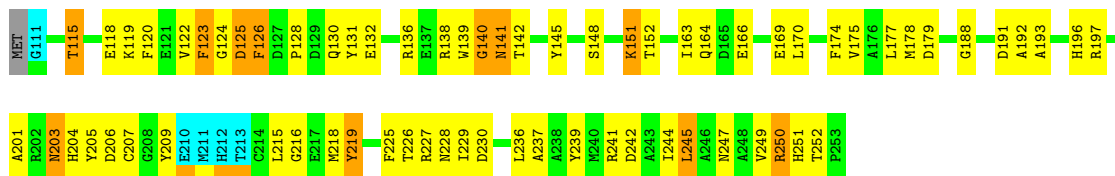
- Molecule 2: nosiheptide



4.2.6 Score per residue for model 6

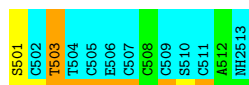
- Molecule 1: HTH-type transcriptional activator TipA

Chain A:  49% 40% 8% ..



- Molecule 2: nosiheptide

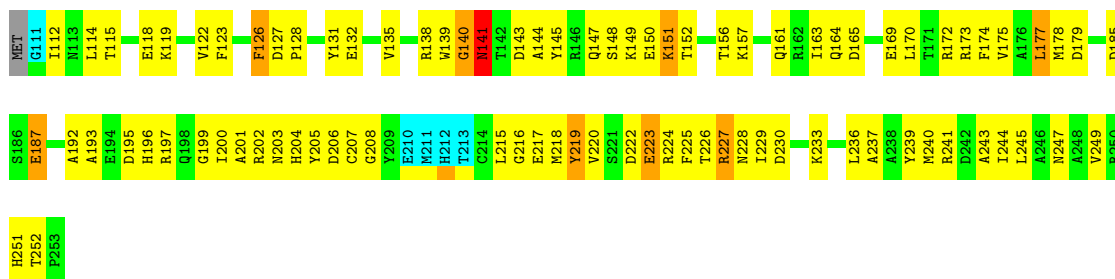
Chain B:  15% 8% 8% 69%



4.2.7 Score per residue for model 7

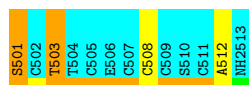
- Molecule 1: HTH-type transcriptional activator TipA

Chain A:  36% 53% 6% ..



- Molecule 2: nosiheptide

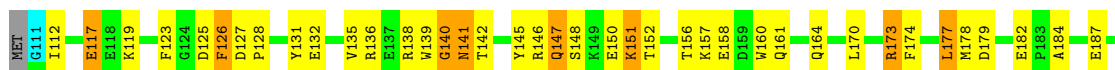
Chain B:  15% 15% 69%



4.2.8 Score per residue for model 8

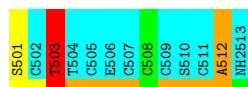
- Molecule 1: HTH-type transcriptional activator TipA

Chain A:  42% 46% 8% ..





- Molecule 2: nosiheptide

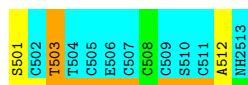


4.2.9 Score per residue for model 9

- Molecule 1: HTH-type transcriptional activator TipA

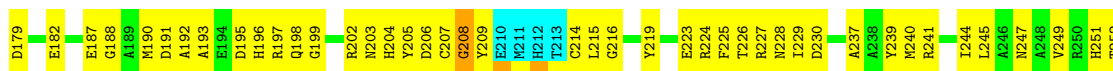
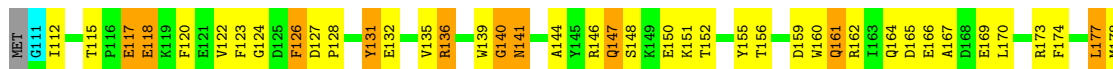


- Molecule 2: nosiheptide



4.2.10 Score per residue for model 10

- Molecule 1: HTH-type transcriptional activator TipA



- Molecule 2: nosiheptide



S501
C502
T503
T504
C505
E506
C507
C508
C509
S510
C511
A512
HP2513

5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
Xplor-NIH	structure solution	2.30
Xplor-NIH	refinement	2.30

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	1738
Number of shifts mapped to atoms	1737
Number of unparsed shifts	0
Number of shifts with mapping errors	1
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	89%

6 Model quality i

6.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: NH2, NO1, BB9, MH6, 3GL, DBU

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.27±0.00	0±0/1139 (0.0± 0.0%)	0.47±0.01	0±0/1537 (0.0± 0.0%)
2	B	2.65±0.03	1±0/16 (6.2± 0.0%)	1.40±0.05	0±0/16 (3.1± 3.1%)
All	All	0.41	10/11550 (0.1%)	0.49	5/15530 (0.0%)

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

Mol	Chain	Chirality	Planarity
2	B	0.2±0.4	0.0±0.0
All	All	2	0

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	B	501	SER	CA-CB	-10.29	1.37	1.52	1	10

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	501	SER	CB-CA-C	5.24	120.06	110.10	10	5

All unique chiral outliers are listed below.

Mol	Chain	Res	Type	Atoms	Models (Total)
2	B	501	SER	CA	2

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	1116	1021	1020	99±8
2	B	20	15	16	1±1
3	B	13	9	7	2±2
All	All	11490	10450	10430	988

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 45.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:174:PHE:CE1	1:A:192:ALA:HB1	0.97	1.94	7	10
1:A:159:ASP:O	1:A:163:ILE:HD13	0.90	1.66	2	3
1:A:245:LEU:O	1:A:249:VAL:HG23	0.87	1.70	7	4
1:A:230:ASP:OD1	1:A:237:ALA:HB2	0.82	1.73	3	3
1:A:118:GLU:OE1	1:A:118:GLU:N	0.82	2.13	1	2
1:A:204:HIS:NE2	3:B:601:NO1:HB3C	0.81	1.91	8	5
1:A:170:LEU:HD21	1:A:174:PHE:CE2	0.80	2.12	9	7
1:A:119:LYS:O	1:A:123:PHE:N	0.80	2.14	6	4
1:A:139:TRP:O	1:A:141:ASN:N	0.79	2.15	10	9
1:A:116:PRO:O	1:A:120:PHE:CE2	0.79	2.34	1	1
1:A:138:ARG:NH1	1:A:139:TRP:CZ2	0.78	2.52	8	1
1:A:204:HIS:ND1	1:A:205:TYR:N	0.77	2.32	5	4
1:A:144:ALA:HB1	1:A:205:TYR:CE2	0.76	2.15	7	6
1:A:198:GLN:O	1:A:202:ARG:NH1	0.76	2.19	5	1
1:A:148:SER:O	1:A:152:THR:HG22	0.75	1.82	2	10
1:A:204:HIS:ND1	1:A:205:TYR:CD1	0.75	2.54	9	3
1:A:199:GLY:O	1:A:203:ASN:OD1	0.74	2.05	7	1
1:A:205:TYR:CE2	1:A:207:CYS:SG	0.74	2.81	9	1
1:A:197:ARG:NH1	1:A:209:TYR:CD2	0.74	2.55	3	1
1:A:247:ASN:O	1:A:251:HIS:ND1	0.73	2.20	10	10
1:A:225:PHE:O	1:A:228:ASN:OD1	0.73	2.04	5	3
1:A:163:ILE:HG23	1:A:203:ASN:HD22	0.73	1.43	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:177:LEU:HD11	1:A:239:TYR:OH	0.73	1.82	4	2
1:A:188:GLY:O	1:A:191:ASP:OD1	0.72	2.08	5	6
1:A:233:LYS:NZ	1:A:236:LEU:HD13	0.71	2.00	1	1
1:A:248:ALA:O	1:A:252:THR:HG22	0.71	1.83	2	4
1:A:191:ASP:OD1	1:A:192:ALA:N	0.70	2.25	1	4
1:A:145:TYR:CZ	1:A:149:LYS:NZ	0.70	2.60	7	1
1:A:205:TYR:CE1	1:A:207:CYS:SG	0.70	2.84	4	3
1:A:203:ASN:O	1:A:203:ASN:ND2	0.70	2.24	6	1
1:A:194:GLU:N	1:A:194:GLU:OE1	0.70	2.25	8	1
1:A:233:LYS:HZ1	1:A:236:LEU:HD13	0.69	1.48	5	3
1:A:136:ARG:O	1:A:140:GLY:CA	0.69	2.40	2	9
1:A:200:ILE:O	1:A:204:HIS:ND1	0.68	2.26	7	2
1:A:226:THR:HG23	1:A:237:ALA:CB	0.68	2.19	8	10
1:A:219:TYR:OH	1:A:240:MET:SD	0.68	2.49	4	5
1:A:215:LEU:O	1:A:219:TYR:N	0.68	2.27	8	3
1:A:197:ARG:NH2	1:A:247:ASN:HD22	0.68	1.87	9	1
1:A:243:ALA:O	1:A:247:ASN:ND2	0.68	2.27	7	1
1:A:163:ILE:HG23	1:A:203:ASN:ND2	0.67	2.04	7	1
1:A:140:GLY:O	1:A:141:ASN:CG	0.67	2.33	6	3
1:A:123:PHE:CZ	1:A:126:PHE:CE1	0.66	2.82	6	1
1:A:130:GLN:NE2	1:A:131:TYR:CG	0.66	2.63	2	1
1:A:197:ARG:NH1	1:A:209:TYR:CZ	0.66	2.64	1	1
1:A:190:MET:SD	1:A:194:GLU:OE2	0.66	2.54	5	2
1:A:193:ALA:HB3	1:A:247:ASN:ND2	0.66	2.05	7	2
1:A:122:VAL:O	1:A:164:GLN:NE2	0.66	2.28	4	2
1:A:197:ARG:HE	1:A:197:ARG:C	0.66	1.94	5	1
1:A:197:ARG:NH1	1:A:208:GLY:C	0.66	2.49	3	1
1:A:170:LEU:C	1:A:170:LEU:HD23	0.66	2.11	8	10
1:A:223:GLU:OE1	1:A:223:GLU:N	0.66	2.28	7	1
1:A:170:LEU:HD21	1:A:174:PHE:CZ	0.66	2.26	3	4
1:A:197:ARG:HH21	1:A:247:ASN:ND2	0.66	1.88	9	1
1:A:190:MET:O	1:A:194:GLU:OE1	0.65	2.15	8	2
1:A:130:GLN:NE2	1:A:131:TYR:CD1	0.65	2.64	2	1
1:A:203:ASN:OD1	1:A:204:HIS:ND1	0.65	2.29	3	1
1:A:233:LYS:HZ1	1:A:236:LEU:CD1	0.64	2.05	5	2
1:A:143:ASP:O	1:A:147:GLN:NE2	0.64	2.29	2	1
1:A:144:ALA:HB1	1:A:205:TYR:CD2	0.64	2.28	7	2
1:A:155:TYR:CD2	1:A:159:ASP:OD2	0.64	2.50	3	1
1:A:145:TYR:CE2	1:A:149:LYS:NZ	0.64	2.66	7	1
1:A:249:VAL:O	1:A:252:THR:HG22	0.64	1.93	6	6
1:A:124:GLY:O	1:A:125:ASP:CB	0.64	2.46	6	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:122:VAL:HG13	1:A:123:PHE:CD2	0.64	2.28	2	4
1:A:147:GLN:OE1	1:A:147:GLN:O	0.64	2.15	1	1
1:A:119:LYS:NZ	1:A:127:ASP:OD1	0.64	2.31	8	1
1:A:202:ARG:HH11	1:A:202:ARG:HG2	0.63	1.53	5	1
1:A:112:ILE:CD1	1:A:160:TRP:HE1	0.63	2.06	3	8
1:A:199:GLY:O	1:A:203:ASN:ND2	0.63	2.32	1	4
1:A:252:THR:HG23	1:A:252:THR:O	0.63	1.92	1	1
1:A:173:ARG:HH22	1:A:195:ASP:CG	0.63	1.96	2	1
1:A:204:HIS:CG	1:A:205:TYR:H	0.62	2.12	7	1
1:A:217:GLU:OE1	1:A:218:MET:N	0.62	2.32	9	1
1:A:204:HIS:CG	1:A:205:TYR:N	0.62	2.67	7	1
1:A:205:TYR:O	1:A:207:CYS:SG	0.62	2.57	4	2
1:A:187:GLU:N	1:A:187:GLU:OE1	0.62	2.32	9	2
1:A:140:GLY:O	1:A:141:ASN:ND2	0.62	2.32	6	1
1:A:226:THR:HG22	1:A:230:ASP:OD2	0.62	1.93	5	4
1:A:194:GLU:OE1	1:A:247:ASN:ND2	0.62	2.31	5	1
1:A:123:PHE:CD1	1:A:164:GLN:NE2	0.62	2.68	7	3
1:A:233:LYS:HZ3	1:A:236:LEU:HB2	0.62	1.55	1	1
1:A:204:HIS:CD2	3:B:601:NO1:CD1	0.62	2.83	6	4
1:A:148:SER:O	1:A:152:THR:CG2	0.61	2.48	4	10
1:A:175:VAL:CG2	1:A:233:LYS:NZ	0.61	2.63	1	1
1:A:144:ALA:HB1	1:A:205:TYR:CZ	0.61	2.30	5	3
1:A:123:PHE:CD1	1:A:164:GLN:OE1	0.61	2.53	4	2
1:A:112:ILE:CD1	1:A:160:TRP:NE1	0.61	2.62	3	8
1:A:169:GLU:OE1	1:A:170:LEU:N	0.61	2.33	9	4
1:A:195:ASP:O	1:A:199:GLY:N	0.61	2.33	9	3
1:A:197:ARG:NH1	1:A:209:TYR:CE1	0.61	2.67	1	3
1:A:174:PHE:O	1:A:178:MET:HB2	0.61	1.95	8	6
1:A:175:VAL:CG2	1:A:233:LYS:HZ2	0.61	2.08	1	1
1:A:214:CYS:O	1:A:218:MET:SD	0.61	2.58	5	2
1:A:202:ARG:HH11	1:A:202:ARG:CG	0.61	2.08	5	1
1:A:139:TRP:O	1:A:141:ASN:OD1	0.61	2.19	1	3
1:A:158:GLU:N	1:A:158:GLU:OE1	0.60	2.34	9	1
1:A:161:GLN:NE2	1:A:162:ARG:N	0.60	2.49	2	1
1:A:161:GLN:NE2	1:A:161:GLN:C	0.60	2.55	2	3
1:A:147:GLN:N	1:A:147:GLN:OE1	0.60	2.35	8	4
1:A:224:ARG:O	1:A:228:ASN:ND2	0.60	2.35	7	3
1:A:190:MET:SD	1:A:191:ASP:N	0.60	2.75	1	1
1:A:177:LEU:C	1:A:177:LEU:HD12	0.60	2.18	5	8
1:A:127:ASP:O	1:A:131:TYR:CD1	0.60	2.55	10	2
1:A:174:PHE:O	1:A:178:MET:CB	0.59	2.49	5	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:126:PHE:CD1	1:A:126:PHE:C	0.59	2.75	6	8
1:A:141:ASN:O	1:A:141:ASN:ND2	0.59	2.35	7	1
1:A:202:ARG:NH1	1:A:203:ASN:OD1	0.59	2.35	7	4
1:A:119:LYS:O	1:A:123:PHE:HB2	0.59	1.97	9	3
1:A:195:ASP:OD1	1:A:196:HIS:N	0.59	2.35	4	2
1:A:193:ALA:CB	1:A:247:ASN:ND2	0.59	2.65	7	1
1:A:123:PHE:CE1	1:A:164:GLN:OE1	0.59	2.56	4	2
1:A:143:ASP:OD1	1:A:144:ALA:N	0.59	2.36	7	1
1:A:204:HIS:NE2	3:B:601:NO1:CB	0.59	2.66	8	4
1:A:204:HIS:NE2	3:B:601:NO1:CG	0.59	2.65	6	3
1:A:197:ARG:NH1	1:A:207:CYS:SG	0.59	2.76	6	1
1:A:161:GLN:NE2	1:A:165:ASP:OD2	0.59	2.36	1	1
1:A:120:PHE:CD2	1:A:124:GLY:O	0.59	2.56	10	2
1:A:205:TYR:CD1	1:A:207:CYS:SG	0.59	2.96	4	2
1:A:197:ARG:NH2	1:A:247:ASN:ND2	0.59	2.50	9	1
1:A:175:VAL:HG13	1:A:233:LYS:HZ1	0.59	1.57	7	1
1:A:179:ASP:O	1:A:179:ASP:OD1	0.58	2.21	10	5
1:A:202:ARG:CB	1:A:202:ARG:NH1	0.58	2.65	3	1
1:A:121:GLU:N	1:A:121:GLU:OE1	0.58	2.36	2	1
1:A:193:ALA:O	1:A:196:HIS:HB3	0.58	1.98	7	9
1:A:178:MET:SD	1:A:239:TYR:CG	0.58	2.96	4	4
1:A:125:ASP:O	1:A:125:ASP:OD1	0.58	2.21	5	4
1:A:131:TYR:O	1:A:135:VAL:HG23	0.58	1.98	8	1
1:A:215:LEU:C	1:A:215:LEU:HD13	0.58	2.19	1	5
1:A:127:ASP:O	1:A:131:TYR:CD2	0.58	2.57	8	3
1:A:202:ARG:HH11	1:A:202:ARG:HB2	0.58	1.58	3	1
1:A:203:ASN:OD1	1:A:204:HIS:CE1	0.58	2.56	3	1
1:A:200:ILE:O	1:A:204:HIS:CE1	0.58	2.56	7	3
1:A:209:TYR:CZ	1:A:251:HIS:O	0.58	2.56	9	2
1:A:114:LEU:O	1:A:119:LYS:NZ	0.58	2.29	1	3
1:A:140:GLY:O	1:A:141:ASN:CB	0.58	2.52	6	3
1:A:175:VAL:HG22	1:A:233:LYS:NZ	0.58	2.12	1	1
1:A:198:GLN:O	1:A:198:GLN:OE1	0.58	2.22	8	1
1:A:244:ILE:HG23	1:A:245:LEU:N	0.58	2.13	9	6
1:A:197:ARG:CZ	1:A:207:CYS:SG	0.58	2.92	6	1
1:A:247:ASN:OD1	1:A:251:HIS:CE1	0.57	2.56	4	7
1:A:205:TYR:CD2	1:A:207:CYS:SG	0.57	2.97	9	1
1:A:230:ASP:OD1	1:A:237:ALA:N	0.57	2.38	10	2
1:A:130:GLN:NE2	1:A:131:TYR:CD2	0.57	2.73	2	1
1:A:131:TYR:OH	1:A:224:ARG:NH2	0.57	2.38	3	2
1:A:201:ALA:HA	1:A:205:TYR:O	0.57	1.99	6	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:219:TYR:OH	1:A:229:ILE:HD13	0.57	2.00	9	2
1:A:197:ARG:NH1	1:A:208:GLY:O	0.57	2.37	3	2
1:A:197:ARG:HH12	1:A:209:TYR:CA	0.57	2.13	3	1
1:A:170:LEU:O	1:A:174:PHE:CD1	0.57	2.58	5	4
1:A:209:TYR:CE2	1:A:251:HIS:O	0.57	2.58	9	3
1:A:205:TYR:OH	2:B:508:CYS:SG	0.57	2.62	2	1
1:A:245:LEU:HD23	1:A:245:LEU:O	0.57	1.99	5	5
1:A:173:ARG:NH2	1:A:195:ASP:CG	0.56	2.57	4	2
1:A:206:ASP:O	1:A:206:ASP:OD1	0.56	2.23	7	3
1:A:202:ARG:NH1	1:A:203:ASN:ND2	0.56	2.53	4	2
1:A:163:ILE:CD1	1:A:203:ASN:HD21	0.56	2.14	6	1
1:A:169:GLU:CD	1:A:172:ARG:HH21	0.56	2.04	7	1
1:A:134:GLU:OE2	1:A:138:ARG:NH2	0.56	2.38	5	1
1:A:135:VAL:HG11	1:A:145:TYR:CE1	0.56	2.35	7	3
1:A:204:HIS:CD2	3:B:601:NO1:HB3C	0.56	2.36	3	1
1:A:135:VAL:HG11	2:B:503:THR:N	0.56	2.16	4	2
1:A:151:LYS:HZ2	1:A:204:HIS:C	0.56	2.03	9	1
1:A:132:GLU:OE2	1:A:145:TYR:OH	0.56	2.23	1	1
1:A:115:THR:OG1	1:A:118:GLU:OE1	0.56	2.24	1	2
1:A:118:GLU:OE2	1:A:157:LYS:NZ	0.55	2.38	5	1
1:A:126:PHE:O	1:A:126:PHE:CD1	0.55	2.59	8	3
1:A:136:ARG:O	1:A:140:GLY:HA3	0.55	2.00	2	6
1:A:144:ALA:O	1:A:205:TYR:CD2	0.55	2.60	2	1
1:A:130:GLN:NE2	1:A:131:TYR:CZ	0.55	2.75	6	1
1:A:214:CYS:SG	1:A:218:MET:SD	0.55	3.04	2	1
1:A:198:GLN:N	1:A:198:GLN:OE1	0.55	2.39	3	2
1:A:119:LYS:O	1:A:123:PHE:CB	0.55	2.54	6	1
1:A:201:ALA:HB2	1:A:207:CYS:SG	0.55	2.41	6	1
1:A:194:GLU:OE2	1:A:251:HIS:NE2	0.55	2.39	8	1
1:A:127:ASP:O	1:A:130:GLN:NE2	0.55	2.37	2	1
1:A:204:HIS:CE1	3:B:601:NO1:HB3C	0.55	2.37	6	2
1:A:173:ARG:NH1	1:A:195:ASP:OD2	0.54	2.40	2	1
1:A:145:TYR:OH	1:A:149:LYS:NZ	0.54	2.40	7	1
1:A:230:ASP:O	1:A:230:ASP:OD1	0.54	2.25	1	1
1:A:123:PHE:CE1	1:A:126:PHE:CD1	0.54	2.96	6	1
1:A:215:LEU:HD13	1:A:215:LEU:O	0.54	2.01	2	2
1:A:190:MET:CE	1:A:194:GLU:OE2	0.54	2.56	5	1
1:A:151:LYS:NZ	1:A:151:LYS:CB	0.54	2.70	6	3
1:A:197:ARG:NH2	1:A:208:GLY:O	0.54	2.40	7	1
1:A:161:GLN:HE21	1:A:165:ASP:CG	0.54	2.06	7	2
1:A:227:ARG:HA	1:A:230:ASP:OD1	0.54	2.02	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:128:PRO:O	1:A:132:GLU:N	0.54	2.40	8	10
1:A:162:ARG:NH2	1:A:165:ASP:OD2	0.54	2.40	4	2
1:A:137:GLU:OE1	1:A:137:GLU:C	0.54	2.46	1	1
1:A:204:HIS:CD2	3:B:601:NO1:C	0.54	2.91	10	2
1:A:142:THR:O	1:A:146:ARG:NE	0.54	2.40	8	1
1:A:127:ASP:OD1	1:A:131:TYR:CE1	0.54	2.60	5	1
1:A:194:GLU:OE1	1:A:247:ASN:OD1	0.54	2.26	8	1
1:A:192:ALA:O	1:A:195:ASP:CG	0.53	2.47	4	2
1:A:216:GLY:O	1:A:219:TYR:CD1	0.53	2.61	7	1
1:A:173:ARG:NH2	1:A:195:ASP:OD2	0.53	2.41	3	2
1:A:151:LYS:CE	1:A:155:TYR:OH	0.53	2.57	4	2
1:A:197:ARG:NH1	1:A:209:TYR:OH	0.53	2.40	1	1
1:A:197:ARG:HH12	1:A:209:TYR:N	0.53	1.99	3	1
1:A:244:ILE:CG2	1:A:245:LEU:N	0.53	2.71	8	7
1:A:193:ALA:HB1	1:A:244:ILE:HD12	0.53	1.81	1	2
1:A:197:ARG:NH2	1:A:207:CYS:O	0.53	2.42	2	1
1:A:132:GLU:OE2	1:A:149:LYS:NZ	0.53	2.42	9	1
1:A:198:GLN:CG	1:A:199:GLY:N	0.53	2.71	5	3
1:A:123:PHE:CE2	1:A:126:PHE:CE1	0.53	2.97	6	1
1:A:226:THR:O	1:A:230:ASP:OD2	0.53	2.26	5	4
1:A:214:CYS:SG	2:B:512:ALA:O	0.52	2.67	8	1
1:A:170:LEU:HD23	1:A:170:LEU:O	0.52	2.05	2	10
1:A:161:GLN:HE21	1:A:162:ARG:N	0.52	2.03	2	1
1:A:201:ALA:CA	1:A:205:TYR:O	0.52	2.57	2	1
1:A:215:LEU:O	1:A:215:LEU:HD13	0.52	2.04	6	2
1:A:163:ILE:CG2	1:A:203:ASN:HD22	0.52	2.15	7	1
1:A:169:GLU:HA	1:A:172:ARG:HE	0.52	1.63	7	1
1:A:122:VAL:CA	1:A:164:GLN:HE22	0.52	2.18	10	2
1:A:112:ILE:HD13	1:A:160:TRP:HE1	0.52	1.64	1	8
1:A:194:GLU:OE1	1:A:194:GLU:N	0.52	2.43	5	1
1:A:170:LEU:HA	1:A:173:ARG:NE	0.52	2.20	7	4
1:A:230:ASP:OD2	1:A:235:GLY:N	0.52	2.41	1	1
1:A:174:PHE:O	1:A:178:MET:N	0.52	2.38	3	4
1:A:219:TYR:CE1	1:A:229:ILE:HD13	0.52	2.40	8	1
1:A:116:PRO:N	1:A:119:LYS:HZ3	0.52	2.02	1	1
1:A:169:GLU:OE2	1:A:172:ARG:NH2	0.52	2.43	7	1
1:A:141:ASN:O	1:A:146:ARG:NH1	0.52	2.43	1	1
1:A:225:PHE:HA	1:A:228:ASN:ND2	0.52	2.19	1	2
1:A:241:ARG:CD	1:A:241:ARG:C	0.52	2.78	1	1
1:A:204:HIS:CD2	2:B:508:CYS:CB	0.52	2.93	7	1
1:A:190:MET:SD	1:A:190:MET:C	0.51	2.88	1	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:241:ARG:CZ	1:A:242:ASP:OD1	0.51	2.58	6	2
1:A:215:LEU:O	1:A:219:TYR:HB2	0.51	2.05	6	1
1:A:215:LEU:HD22	1:A:218:MET:SD	0.51	2.45	6	1
1:A:248:ALA:O	1:A:252:THR:CG2	0.51	2.57	1	4
1:A:169:GLU:OE1	1:A:172:ARG:NE	0.51	2.43	7	1
1:A:233:LYS:HZ3	1:A:236:LEU:CB	0.51	2.18	1	1
1:A:193:ALA:HB3	1:A:247:ASN:HD22	0.51	1.66	3	1
1:A:122:VAL:HG23	1:A:123:PHE:CD2	0.51	2.40	10	2
1:A:216:GLY:O	1:A:219:TYR:CB	0.51	2.59	4	4
1:A:187:GLU:O	1:A:191:ASP:OD1	0.51	2.29	4	3
1:A:219:TYR:OH	1:A:229:ILE:HG21	0.51	2.06	9	1
1:A:187:GLU:OE1	1:A:190:MET:SD	0.51	2.68	8	1
1:A:251:HIS:ND1	1:A:251:HIS:N	0.51	2.59	1	1
1:A:130:GLN:NE2	1:A:131:TYR:CE1	0.51	2.77	2	2
1:A:226:THR:HG23	1:A:237:ALA:HB3	0.51	1.82	6	2
1:A:130:GLN:OE1	1:A:131:TYR:CE1	0.51	2.63	2	1
1:A:117:GLU:OE1	1:A:117:GLU:O	0.51	2.29	8	3
1:A:123:PHE:CZ	1:A:126:PHE:CD1	0.51	2.98	6	1
1:A:175:VAL:HG22	1:A:233:LYS:HZ2	0.51	1.65	1	1
1:A:182:GLU:OE2	1:A:189:ALA:N	0.51	2.44	5	1
1:A:202:ARG:NE	1:A:202:ARG:HA	0.51	2.20	9	1
1:A:200:ILE:HG12	1:A:204:HIS:NE2	0.50	2.21	9	4
1:A:202:ARG:NH1	1:A:203:ASN:CG	0.50	2.64	4	2
1:A:194:GLU:OE2	1:A:251:HIS:CE1	0.50	2.64	8	1
1:A:217:GLU:CB	1:A:241:ARG:NH1	0.50	2.75	1	1
1:A:233:LYS:HZ3	1:A:236:LEU:HD13	0.50	1.66	1	1
1:A:162:ARG:NH2	1:A:165:ASP:CG	0.50	2.65	4	2
1:A:214:CYS:SG	1:A:218:MET:HE3	0.50	2.46	5	1
1:A:126:PHE:CD1	1:A:126:PHE:O	0.50	2.64	9	6
1:A:178:MET:HG2	1:A:239:TYR:CD2	0.50	2.40	10	2
1:A:131:TYR:OH	1:A:224:ARG:CZ	0.50	2.60	3	1
1:A:219:TYR:O	1:A:222:ASP:OD1	0.50	2.30	7	1
1:A:233:LYS:HZ3	1:A:236:LEU:CG	0.50	2.18	1	1
1:A:130:GLN:OE1	1:A:131:TYR:CD1	0.50	2.63	2	1
1:A:139:TRP:CD2	2:B:501:SER:CB	0.50	2.95	7	1
1:A:133:GLU:CB	1:A:136:ARG:HH12	0.50	2.19	5	1
1:A:202:ARG:CZ	1:A:203:ASN:OD1	0.50	2.59	7	1
1:A:116:PRO:O	1:A:120:PHE:CZ	0.49	2.64	1	1
1:A:147:GLN:O	1:A:150:GLU:HB3	0.49	2.07	1	4
1:A:156:THR:HG22	1:A:157:LYS:H	0.49	1.65	7	1
1:A:204:HIS:CE1	1:A:207:CYS:SG	0.49	3.05	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:112:ILE:HD11	1:A:160:TRP:CZ2	0.49	2.43	10	5
1:A:164:GLN:O	1:A:168:ASP:OD1	0.49	2.31	9	2
1:A:138:ARG:NH1	1:A:139:TRP:CH2	0.49	2.81	8	1
1:A:122:VAL:HG22	1:A:122:VAL:O	0.49	2.06	9	1
1:A:117:GLU:OE1	1:A:117:GLU:C	0.49	2.50	4	3
1:A:178:MET:SD	1:A:236:LEU:HD13	0.49	2.48	7	1
1:A:175:VAL:HG13	1:A:179:ASP:OD2	0.49	2.07	1	2
1:A:222:ASP:O	1:A:224:ARG:N	0.49	2.45	5	2
1:A:233:LYS:NZ	1:A:236:LEU:HD22	0.49	2.23	1	1
1:A:169:GLU:OE1	1:A:169:GLU:C	0.49	2.51	4	4
1:A:157:LYS:NZ	1:A:161:GLN:OE1	0.49	2.45	8	1
1:A:151:LYS:CB	1:A:151:LYS:HZ3	0.49	2.21	6	2
1:A:177:LEU:HD11	1:A:239:TYR:CZ	0.49	2.42	4	2
1:A:227:ARG:C	1:A:227:ARG:HE	0.49	2.11	7	1
1:A:197:ARG:CB	1:A:197:ARG:NH1	0.49	2.76	9	1
1:A:137:GLU:OE1	1:A:137:GLU:O	0.48	2.31	1	1
1:A:179:ASP:N	1:A:179:ASP:OD1	0.48	2.45	1	1
1:A:230:ASP:OD2	1:A:233:LYS:O	0.48	2.30	1	1
1:A:209:TYR:CE1	1:A:251:HIS:HB3	0.48	2.43	8	4
1:A:115:THR:OG1	1:A:118:GLU:CG	0.48	2.61	6	1
1:A:230:ASP:CG	1:A:233:LYS:O	0.48	2.51	1	1
1:A:163:ILE:HD13	1:A:203:ASN:HD21	0.48	1.68	6	1
1:A:219:TYR:OH	1:A:240:MET:CB	0.48	2.61	3	2
1:A:202:ARG:NH1	1:A:202:ARG:CG	0.48	2.73	5	1
1:A:185:ASP:OD1	1:A:185:ASP:O	0.48	2.31	7	2
1:A:147:GLN:HE21	1:A:147:GLN:H	0.48	1.52	2	1
1:A:224:ARG:O	1:A:228:ASN:OD1	0.48	2.32	2	3
1:A:197:ARG:CZ	1:A:209:TYR:CD2	0.48	2.96	3	1
1:A:202:ARG:NH1	1:A:202:ARG:HB2	0.48	2.21	3	1
1:A:175:VAL:HG13	1:A:233:LYS:NZ	0.48	2.21	7	1
1:A:204:HIS:CD2	1:A:205:TYR:CE2	0.48	3.02	7	1
1:A:123:PHE:CE1	1:A:164:GLN:NE2	0.48	2.82	7	1
1:A:169:GLU:CD	1:A:172:ARG:NH2	0.48	2.67	7	1
1:A:202:ARG:HG3	1:A:202:ARG:HH11	0.48	1.68	1	1
1:A:223:GLU:N	1:A:223:GLU:CD	0.48	2.67	9	1
1:A:252:THR:O	1:A:252:THR:CG2	0.48	2.62	1	1
1:A:197:ARG:CZ	1:A:207:CYS:O	0.48	2.61	2	1
1:A:223:GLU:OE1	1:A:223:GLU:C	0.48	2.53	2	1
1:A:148:SER:O	1:A:152:THR:CB	0.47	2.62	10	2
1:A:151:LYS:NZ	1:A:204:HIS:C	0.47	2.67	9	1
1:A:227:ARG:CB	1:A:227:ARG:NH1	0.47	2.77	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:142:THR:C	1:A:146:ARG:NH1	0.47	2.68	1	1
1:A:197:ARG:O	1:A:201:ALA:CB	0.47	2.62	3	2
1:A:204:HIS:ND1	1:A:205:TYR:CD2	0.47	2.83	5	1
1:A:209:TYR:CE1	1:A:251:HIS:CB	0.47	2.97	8	2
1:A:142:THR:C	1:A:146:ARG:HE	0.47	2.13	8	1
1:A:118:GLU:O	1:A:122:VAL:HG12	0.47	2.09	6	1
1:A:247:ASN:OD1	1:A:251:HIS:NE2	0.47	2.48	1	1
1:A:201:ALA:O	1:A:205:TYR:O	0.47	2.33	2	2
1:A:202:ARG:CB	1:A:202:ARG:HH11	0.47	2.23	3	1
1:A:177:LEU:HD13	1:A:182:GLU:OE2	0.47	2.09	4	4
1:A:119:LYS:O	1:A:123:PHE:CA	0.47	2.61	6	1
1:A:142:THR:HG23	1:A:145:TYR:CB	0.47	2.40	6	2
1:A:200:ILE:CG2	1:A:201:ALA:N	0.47	2.77	7	1
1:A:217:GLU:O	1:A:220:VAL:CG1	0.47	2.62	7	1
1:A:223:GLU:CD	1:A:223:GLU:H	0.47	2.12	9	1
1:A:124:GLY:O	1:A:125:ASP:CG	0.47	2.53	1	2
1:A:215:LEU:HD22	1:A:218:MET:CG	0.47	2.40	6	1
1:A:184:ALA:HB3	1:A:242:ASP:OD2	0.47	2.10	8	1
1:A:117:GLU:O	1:A:121:GLU:OE2	0.47	2.32	2	1
1:A:192:ALA:O	1:A:195:ASP:OD2	0.47	2.33	4	2
1:A:239:TYR:C	1:A:239:TYR:CD1	0.47	2.88	4	2
1:A:214:CYS:SG	1:A:218:MET:CE	0.47	3.03	5	1
1:A:119:LYS:NZ	1:A:128:PRO:HD2	0.46	2.25	3	1
1:A:207:CYS:O	1:A:208:GLY:O	0.46	2.34	4	2
1:A:124:GLY:O	1:A:125:ASP:HB2	0.46	2.10	3	2
1:A:217:GLU:O	1:A:220:VAL:HG12	0.46	2.11	7	2
1:A:166:GLU:OE1	1:A:166:GLU:C	0.46	2.54	4	2
1:A:222:ASP:OD1	1:A:222:ASP:O	0.46	2.34	7	1
1:A:139:TRP:O	1:A:140:GLY:C	0.46	2.54	6	7
1:A:202:ARG:HB3	1:A:202:ARG:CZ	0.46	2.40	5	1
1:A:139:TRP:C	1:A:141:ASN:N	0.46	2.68	4	4
1:A:131:TYR:N	1:A:131:TYR:CD1	0.46	2.84	1	3
1:A:170:LEU:C	1:A:170:LEU:CD2	0.46	2.83	10	7
1:A:124:GLY:O	1:A:125:ASP:OD2	0.46	2.34	3	1
1:A:141:ASN:O	1:A:141:ASN:CG	0.46	2.54	3	1
1:A:197:ARG:HG3	1:A:198:GLN:N	0.46	2.26	1	4
1:A:219:TYR:OH	1:A:240:MET:HB2	0.46	2.11	7	2
1:A:146:ARG:O	1:A:150:GLU:HB2	0.46	2.11	4	2
1:A:161:GLN:O	1:A:165:ASP:OD1	0.46	2.34	7	1
1:A:178:MET:SD	1:A:239:TYR:CB	0.46	3.04	10	3
1:A:249:VAL:HG12	1:A:250:ARG:NH2	0.45	2.26	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:173:ARG:HH22	1:A:195:ASP:CB	0.45	2.23	2	1
1:A:178:MET:CE	1:A:233:LYS:NZ	0.45	2.79	5	2
1:A:156:THR:HG22	1:A:159:ASP:OD2	0.45	2.11	4	2
1:A:140:GLY:O	1:A:141:ASN:HB2	0.45	2.11	3	1
1:A:124:GLY:O	1:A:125:ASP:HB3	0.45	2.10	6	2
1:A:140:GLY:O	1:A:141:ASN:HB3	0.45	2.12	2	1
1:A:147:GLN:HE21	1:A:147:GLN:N	0.45	2.10	2	1
1:A:113:ASN:C	1:A:113:ASN:HD22	0.45	2.15	9	2
1:A:209:TYR:CE2	1:A:251:HIS:CB	0.45	2.98	3	1
1:A:163:ILE:CD1	1:A:203:ASN:ND2	0.45	2.80	6	1
1:A:173:ARG:CB	1:A:173:ARG:NH1	0.45	2.80	8	2
1:A:233:LYS:HZ3	1:A:236:LEU:CD1	0.45	2.25	1	1
1:A:112:ILE:CG2	1:A:114:LEU:HD12	0.45	2.42	7	1
1:A:178:MET:C	1:A:178:MET:SD	0.45	2.95	1	3
1:A:225:PHE:HA	1:A:228:ASN:OD1	0.45	2.12	3	1
1:A:249:VAL:O	1:A:252:THR:CG2	0.45	2.65	6	3
1:A:151:LYS:NZ	1:A:203:ASN:O	0.45	2.39	3	1
1:A:127:ASP:O	1:A:131:TYR:HD1	0.45	1.94	4	2
1:A:127:ASP:OD1	1:A:127:ASP:O	0.45	2.34	5	1
1:A:217:GLU:O	1:A:220:VAL:HG22	0.45	2.12	5	1
1:A:204:HIS:CD2	1:A:205:TYR:CD2	0.45	3.05	7	1
1:A:122:VAL:O	1:A:122:VAL:CG2	0.45	2.65	9	1
1:A:123:PHE:CD1	1:A:126:PHE:CD1	0.45	3.05	6	1
1:A:113:ASN:C	1:A:113:ASN:ND2	0.44	2.71	3	2
1:A:134:GLU:OE2	1:A:138:ARG:CZ	0.44	2.65	3	1
1:A:230:ASP:C	1:A:230:ASP:OD1	0.44	2.55	7	1
1:A:184:ALA:CB	1:A:242:ASP:OD1	0.44	2.65	2	1
1:A:203:ASN:N	1:A:203:ASN:HD22	0.44	2.09	2	3
1:A:170:LEU:CD2	1:A:174:PHE:CZ	0.44	3.00	3	1
1:A:117:GLU:O	1:A:121:GLU:HG2	0.44	2.13	9	1
1:A:194:GLU:O	1:A:198:GLN:CD	0.44	2.56	2	1
1:A:115:THR:CG2	1:A:118:GLU:OE1	0.44	2.66	4	2
1:A:115:THR:O	1:A:119:LYS:CD	0.44	2.66	5	1
1:A:205:TYR:O	1:A:206:ASP:C	0.44	2.55	10	2
1:A:178:MET:CG	1:A:239:TYR:CG	0.44	3.00	9	1
1:A:163:ILE:O	1:A:166:GLU:N	0.44	2.51	6	2
1:A:147:GLN:NE2	1:A:147:GLN:N	0.44	2.66	2	1
1:A:203:ASN:N	1:A:203:ASN:ND2	0.44	2.64	2	2
1:A:241:ARG:HD2	1:A:241:ARG:C	0.44	2.32	2	4
1:A:196:HIS:O	1:A:200:ILE:HG22	0.44	2.12	3	1
1:A:205:TYR:OH	2:B:508:CYS:HB2	0.44	2.13	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:163:ILE:CG2	1:A:203:ASN:OD1	0.44	2.66	6	1
1:A:200:ILE:HA	1:A:203:ASN:OD1	0.44	2.12	3	1
1:A:204:HIS:NE2	1:A:205:TYR:CE1	0.44	2.85	7	1
1:A:115:THR:O	1:A:118:GLU:N	0.44	2.51	3	2
1:A:161:GLN:C	1:A:161:GLN:HE21	0.44	2.16	10	2
1:A:151:LYS:CG	1:A:152:THR:N	0.44	2.80	7	4
1:A:130:GLN:CD	1:A:131:TYR:CD1	0.44	2.91	2	1
1:A:217:GLU:OE1	1:A:218:MET:CG	0.44	2.66	9	1
1:A:151:LYS:CD	1:A:204:HIS:O	0.43	2.66	9	2
1:A:223:GLU:H	1:A:223:GLU:CD	0.43	2.16	10	2
1:A:130:GLN:O	1:A:133:GLU:OE2	0.43	2.35	3	1
1:A:209:TYR:CE2	1:A:251:HIS:HB3	0.43	2.48	3	1
1:A:177:LEU:HD12	1:A:178:MET:N	0.43	2.27	5	1
1:A:217:GLU:O	1:A:220:VAL:CG2	0.43	2.66	5	1
1:A:147:GLN:OE1	1:A:150:GLU:OE1	0.43	2.36	3	1
1:A:225:PHE:C	1:A:228:ASN:OD1	0.43	2.57	8	2
1:A:202:ARG:NH1	1:A:202:ARG:N	0.43	2.67	5	1
1:A:222:ASP:OD2	1:A:225:PHE:CD1	0.43	2.71	7	1
1:A:226:THR:O	1:A:230:ASP:OD1	0.43	2.36	9	1
1:A:194:GLU:O	1:A:198:GLN:NE2	0.43	2.51	2	1
1:A:151:LYS:NZ	1:A:151:LYS:HB2	0.43	2.29	6	1
1:A:223:GLU:O	1:A:227:ARG:CB	0.43	2.67	3	1
1:A:151:LYS:HE2	1:A:155:TYR:OH	0.43	2.13	5	1
1:A:175:VAL:O	1:A:179:ASP:OD1	0.43	2.37	6	1
1:A:197:ARG:HH22	1:A:208:GLY:C	0.43	2.17	8	1
1:A:178:MET:HG2	1:A:239:TYR:CD1	0.43	2.49	9	2
1:A:163:ILE:N	1:A:163:ILE:CD1	0.43	2.81	5	1
1:A:247:ASN:OD1	1:A:247:ASN:C	0.43	2.57	5	1
1:A:122:VAL:HG13	1:A:123:PHE:N	0.43	2.29	7	1
1:A:217:GLU:OE1	1:A:218:MET:HG3	0.43	2.14	9	1
1:A:217:GLU:CB	1:A:241:ARG:HH12	0.43	2.27	1	1
1:A:239:TYR:O	1:A:242:ASP:OD1	0.43	2.37	2	1
1:A:215:LEU:HA	1:A:218:MET:HG2	0.43	1.91	6	1
1:A:179:ASP:OD1	1:A:233:LYS:HE3	0.42	2.14	1	1
1:A:178:MET:SD	1:A:236:LEU:CD1	0.42	3.07	7	2
1:A:226:THR:O	1:A:230:ASP:CG	0.42	2.56	7	1
1:A:219:TYR:C	1:A:219:TYR:CD1	0.42	2.92	3	1
1:A:198:GLN:OE1	1:A:198:GLN:C	0.42	2.58	8	1
1:A:230:ASP:C	1:A:232:ALA:N	0.42	2.73	3	1
1:A:197:ARG:HE	1:A:198:GLN:N	0.42	2.13	5	1
1:A:133:GLU:CD	1:A:134:GLU:N	0.42	2.73	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:250:ARG:CD	1:A:250:ARG:N	0.42	2.82	6	1
1:A:144:ALA:CB	1:A:205:TYR:CE2	0.42	3.02	9	1
1:A:173:ARG:HH12	1:A:192:ALA:HA	0.42	1.74	3	1
1:A:183:PRO:O	1:A:186:SER:OG	0.42	2.37	2	1
1:A:214:CYS:O	1:A:217:GLU:CG	0.42	2.68	8	1
1:A:133:GLU:OE2	1:A:134:GLU:N	0.42	2.51	3	1
1:A:178:MET:CE	1:A:233:LYS:HZ3	0.42	2.27	5	1
1:A:246:ALA:O	1:A:250:ARG:CD	0.42	2.67	5	1
1:A:156:THR:HG23	1:A:158:GLU:H	0.42	1.75	8	1
1:A:233:LYS:HZ3	1:A:236:LEU:HD22	0.42	1.75	1	1
1:A:202:ARG:C	1:A:203:ASN:HD22	0.42	2.17	2	1
1:A:230:ASP:O	1:A:233:LYS:N	0.42	2.53	5	2
1:A:198:GLN:O	1:A:202:ARG:CZ	0.42	2.68	5	1
1:A:190:MET:CG	1:A:191:ASP:N	0.42	2.82	4	2
1:A:194:GLU:O	1:A:197:ARG:HG3	0.42	2.14	5	1
1:A:240:MET:O	1:A:244:ILE:HG22	0.42	2.15	5	2
1:A:177:LEU:HG	1:A:178:MET:N	0.41	2.30	2	3
1:A:219:TYR:OH	1:A:229:ILE:CD1	0.41	2.68	1	1
1:A:166:GLU:OE1	1:A:167:ALA:N	0.41	2.53	10	2
1:A:225:PHE:CA	1:A:228:ASN:OD1	0.41	2.69	3	1
1:A:112:ILE:HG21	1:A:114:LEU:HD12	0.41	1.91	7	1
1:A:172:ARG:CB	1:A:172:ARG:NH1	0.41	2.84	9	1
1:A:200:ILE:HG12	1:A:204:HIS:HE2	0.41	1.75	9	1
1:A:131:TYR:CD1	1:A:131:TYR:N	0.41	2.88	10	2
1:A:215:LEU:C	1:A:215:LEU:CD1	0.41	2.88	7	1
1:A:224:ARG:NE	1:A:224:ARG:HA	0.41	2.31	9	1
1:A:185:ASP:OD1	1:A:246:ALA:CB	0.41	2.68	2	1
1:A:214:CYS:O	1:A:217:GLU:HG2	0.41	2.15	2	1
1:A:202:ARG:HA	1:A:202:ARG:HH11	0.41	1.76	2	1
1:A:160:TRP:CE3	1:A:163:ILE:HD12	0.41	2.51	3	1
1:A:200:ILE:HA	1:A:203:ASN:ND2	0.41	2.31	5	1
1:A:245:LEU:CD2	1:A:245:LEU:C	0.41	2.89	5	1
1:A:217:GLU:HB3	1:A:241:ARG:NH1	0.41	2.30	1	1
1:A:230:ASP:OD1	1:A:234:PRO:HA	0.41	2.15	1	1
1:A:151:LYS:HE3	1:A:155:TYR:OH	0.41	2.16	4	2
1:A:202:ARG:NH1	1:A:202:ARG:CB	0.41	2.84	5	1
1:A:214:CYS:O	1:A:217:GLU:HG3	0.41	2.16	8	1
1:A:118:GLU:OE1	1:A:118:GLU:CA	0.41	2.67	1	1
1:A:173:ARG:NH2	1:A:195:ASP:HB3	0.41	2.31	7	2
1:A:202:ARG:HH11	1:A:202:ARG:H	0.41	1.57	5	1
1:A:122:VAL:O	1:A:122:VAL:HG22	0.41	2.15	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:139:TRP:CE3	2:B:501:SER:CB	0.41	3.04	7	1
1:A:151:LYS:CB	1:A:151:LYS:HZ2	0.41	2.28	7	1
1:A:177:LEU:HD12	1:A:177:LEU:C	0.41	2.36	7	1
1:A:216:GLY:O	1:A:219:TYR:HB2	0.41	2.16	1	1
1:A:193:ALA:HB3	1:A:247:ASN:CG	0.41	2.36	2	1
1:A:240:MET:O	1:A:244:ILE:HB	0.41	2.15	4	2
1:A:140:GLY:O	1:A:141:ASN:OD1	0.41	2.39	10	1
1:A:163:ILE:O	1:A:166:GLU:CB	0.40	2.69	6	1
1:A:215:LEU:HD13	1:A:215:LEU:C	0.40	2.36	9	1
1:A:230:ASP:OD2	1:A:234:PRO:HA	0.40	2.15	1	1
1:A:196:HIS:CE1	1:A:244:ILE:CD1	0.40	3.05	5	1
3:B:601:NO1:HB1C	3:B:601:NO1:CF	0.40	2.46	6	1
1:A:135:VAL:CG1	1:A:145:TYR:CE1	0.40	3.05	8	1
1:A:178:MET:HG3	1:A:239:TYR:CG	0.40	2.51	8	1
1:A:115:THR:OG1	1:A:118:GLU:CD	0.40	2.59	1	1
1:A:141:ASN:C	1:A:146:ARG:NH1	0.40	2.75	1	1
1:A:191:ASP:OD1	1:A:191:ASP:C	0.40	2.59	1	1
1:A:163:ILE:O	1:A:166:GLU:HB3	0.40	2.17	5	1
1:A:222:ASP:C	1:A:224:ARG:N	0.40	2.75	5	1
1:A:173:ARG:NH2	1:A:195:ASP:CB	0.40	2.85	7	1
1:A:219:TYR:CD1	1:A:220:VAL:N	0.40	2.89	7	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	137/144 (95%)	128±2 (94±2%)	6±2 (4±1%)	3±1 (2±1%)	10	50
2	B	3/13 (23%)	1±1 (27±25%)	1±1 (30±23%)	1±0 (43±15%)	0	0
All	All	1400/1570 (89%)	1293 (92%)	65 (5%)	42 (3%)	7	40

All 7 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	140	GLY	10
1	A	141	ASN	10
2	B	503	THR	10
1	A	125	ASP	4
1	A	208	GLY	3
2	B	512	ALA	3
1	A	223	GLU	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	113/118 (96%)	103±3 (91±3%)	10±3 (9±3%)	13	59
2	B	2/3 (67%)	2±0 (95±15%)	0±0 (5±15%)	28	77
All	All	1150/1210 (95%)	1046 (91%)	104 (9%)	13	60

All 45 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	126	PHE	9
1	A	177	LEU	9
1	A	219	TYR	7
1	A	147	GLN	6
1	A	118	GLU	4
1	A	178	MET	4
1	A	250	ARG	4
1	A	117	GLU	4
1	A	241	ARG	3
1	A	245	LEU	3
1	A	161	GLN	3
1	A	198	GLN	3
1	A	151	LYS	3
1	A	227	ARG	3
1	A	173	ARG	2
1	A	190	MET	2
1	A	113	ASN	2
1	A	115	THR	2

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Mol	Chain	Res	Type	Models (Total)
1	A	120	PHE	2
1	A	131	TYR	2
1	A	136	ARG	2
1	A	187	GLU	2
1	A	137	GLU	1
1	A	179	ASP	1
1	A	204	HIS	1
1	A	233	LYS	1
1	A	251	HIS	1
1	A	121	GLU	1
1	A	205	TYR	1
1	A	133	GLU	1
1	A	162	ARG	1
1	A	209	TYR	1
1	A	230	ASP	1
1	A	163	ILE	1
1	A	194	GLU	1
1	A	195	ASP	1
1	A	197	ARG	1
1	A	202	ARG	1
1	A	123	PHE	1
1	A	203	ASN	1
1	A	141	ASN	1
1	A	223	GLU	1
2	B	503	THR	1
1	A	158	GLU	1
1	A	217	GLU	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

8 non-standard protein/DNA/RNA residues are modelled in this entry.

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

considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Counts	Bond lengths	
						RMSZ	#Z>2
2	BB9	B	502	2	3,5,6	1.53±0.04	1±0 (33±0%)
2	BB9	B	509	2	2,4,6	2.17±0.04	1±0 (50±0%)
2	MH6	B	510	2	3,4,6	2.45±0.03	2±0 (66±0%)
2	BB9	B	505	2	3,5,6	1.47±0.06	1±0 (30±10%)
2	BB9	B	511	2	3,5,6	1.47±0.04	1±0 (33±0%)
2	3GL	B	506	2,3	8,8,10	0.79±0.07	0±0 (0±0%)
2	DBU	B	504	2	4,4,6	1.51±0.05	1±0 (25±0%)
2	BB9	B	507	2	3,5,6	1.43±0.05	1±0 (30±10%)

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

Mol	Type	Chain	Res	Link	Counts	Bond angles	
						RMSZ	#Z>2
2	BB9	B	502	2	1,5,7	3.66±0.27	1±0 (100±0%)
2	BB9	B	509	2	3,4,7	2.91±0.02	3±0 (100±0%)
2	MH6	B	510	2	2,4,7	3.05±0.01	1±0 (50±0%)
2	BB9	B	505	2	1,5,7	2.79±0.23	1±0 (100±0%)
2	BB9	B	511	2	1,5,7	3.03±0.10	1±0 (100±0%)
2	3GL	B	506	2,3	10,10,13	1.35±0.11	2±0 (17±4%)
2	DBU	B	504	2	4,4,7	3.82±0.36	2±0 (52±7%)
2	BB9	B	507	2	1,5,7	2.94±0.16	1±0 (100±0%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	BB9	B	509	2	-	0±0,0,2,6	-
2	BB9	B	502	2	-	0±0,0,4,6	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	DBU	B	504	2	-	0±0,1,2,6	-
2	3GL	B	506	2,3	-	0±0,8,8,12	-
2	BB9	B	507	2	-	0±0,0,4,6	-
2	BB9	B	505	2	-	0±0,0,4,6	-
2	BB9	B	511	2	-	0±0,0,4,6	-
2	MH6	B	510	2	-	0±0,1,2,6	-

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	B	510	MH6	CA-N	3.22	1.35	1.27	1	10
2	B	509	BB9	CA-N	3.15	1.41	1.33	2	10
2	B	504	DBU	CA-N	3.13	1.41	1.33	8	10
2	B	510	MH6	C-CA	2.83	1.45	1.49	5	10
2	B	505	BB9	CA-N	2.62	1.41	1.35	7	9
2	B	502	BB9	CA-N	2.49	1.41	1.35	7	10
2	B	507	BB9	CA-N	2.40	1.41	1.35	6	9
2	B	511	BB9	CA-N	2.39	1.41	1.35	1	10

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	504	DBU	CB-CA-N	7.35	118.43	122.87	7	10
2	B	504	DBU	C-CA-N	5.23	122.37	116.53	7	10
2	B	510	MH6	OG-CB-CA	4.34	120.51	112.19	5	10
2	B	502	BB9	O-C-CA	3.98	120.33	125.39	4	10
2	B	506	3GL	OE1-CD-CG	3.46	120.33	112.72	1	10
2	B	509	BB9	C-CA-CB	3.44	127.66	121.39	10	10
2	B	511	BB9	O-C-CA	3.19	121.34	125.39	1	10
2	B	507	BB9	O-C-CA	3.18	121.35	125.39	2	10
2	B	505	BB9	O-C-CA	3.15	121.39	125.39	1	10
2	B	504	DBU	CG-CB-CA	3.08	117.89	125.58	5	1
2	B	509	BB9	CB-CA-N	2.91	113.20	122.50	8	10
2	B	509	BB9	C-CA-N	2.74	119.59	116.53	5	10
2	B	506	3GL	OE1-CD-OE2	2.19	119.12	124.09	4	7

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

1 ligand is modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
3	NO1	B	601	2	11,14,16	1.65±0.06	2±0 (21±4%)

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

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
3	NO1	B	601	2	12,20,23	2.08±0.15	4±0 (30±4%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NO1	B	601	2	-	0±0,0,2,6	0±0,2,2,2

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	601	NO1	CG-CD2	4.33	1.45	1.40	2	10
3	B	601	NO1	CD1-C	3.46	1.52	1.48	6	10
3	B	601	NO1	CE3-CD2	2.37	1.40	1.44	7	4

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	601	NO1	O-C-CD1	6.63	117.94	124.22	1	10
3	B	601	NO1	CE3-CD2-CE2	3.04	117.82	122.70	1	10
3	B	601	NO1	CF-CE3-CD2	2.56	119.68	124.37	6	6
3	B	601	NO1	CD1-NE1-CE2	2.23	109.10	104.45	8	10

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 89% for the well-defined parts and 89% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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

Total number of shifts	1738
Number of shifts mapped to atoms	1737
Number of unparsed shifts	0
Number of shifts with mapping errors	1
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	6

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 1 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	B	501	SER	HB2	7.028	0.015	1

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	143	-0.67 ± 0.14	Should be checked
$^{13}\text{C}_\beta$	132	0.32 ± 0.16	None needed (< 0.5 ppm)
$^{13}\text{C}'$	132	-0.57 ± 0.10	Should be applied
^{15}N	138	0.41 ± 0.32	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 89%, i.e. 1668 atoms were assigned a chemical shift out of a possible 1878. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	683/708 (96%)	283/287 (99%)	267/284 (94%)	133/137 (97%)
Sidechain	847/1011 (84%)	586/644 (91%)	249/316 (79%)	12/51 (24%)
Aromatic	138/159 (87%)	69/77 (90%)	67/76 (88%)	2/6 (33%)
Overall	1668/1878 (89%)	938/1008 (93%)	583/676 (86%)	147/194 (76%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 89%, i.e. 1716 atoms were assigned a chemical shift out of a possible 1937. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	707/734 (96%)	294/298 (99%)	275/294 (94%)	138/142 (97%)
Sidechain	865/1037 (83%)	597/661 (90%)	256/325 (79%)	12/51 (24%)
Aromatic	144/166 (87%)	72/81 (89%)	69/78 (88%)	3/7 (43%)
Overall	1716/1937 (89%)	963/1040 (93%)	600/697 (86%)	153/200 (76%)

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.

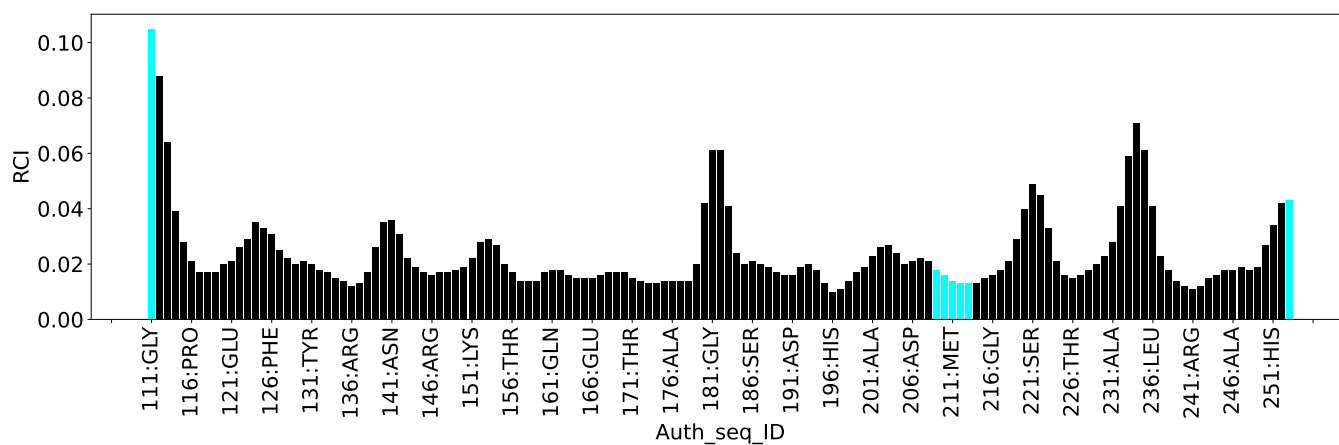
List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	B	512	ALA	HB1	6.39	0.14 – 2.58	20.6
1	B	512	ALA	HB2	5.87	0.14 – 2.58	18.5
1	B	501	SER	HB2	7.03	2.61 – 5.13	12.5
1	B	501	SER	HB3	7.03	2.49 – 5.20	11.7
1	A	138	ARG	HG3	-0.26	0.15 – 2.94	-6.5
1	A	138	ARG	HG2	-0.04	0.26 – 2.87	-6.1

7.1.5 Random Coil Index (RCI) plots [i](#)

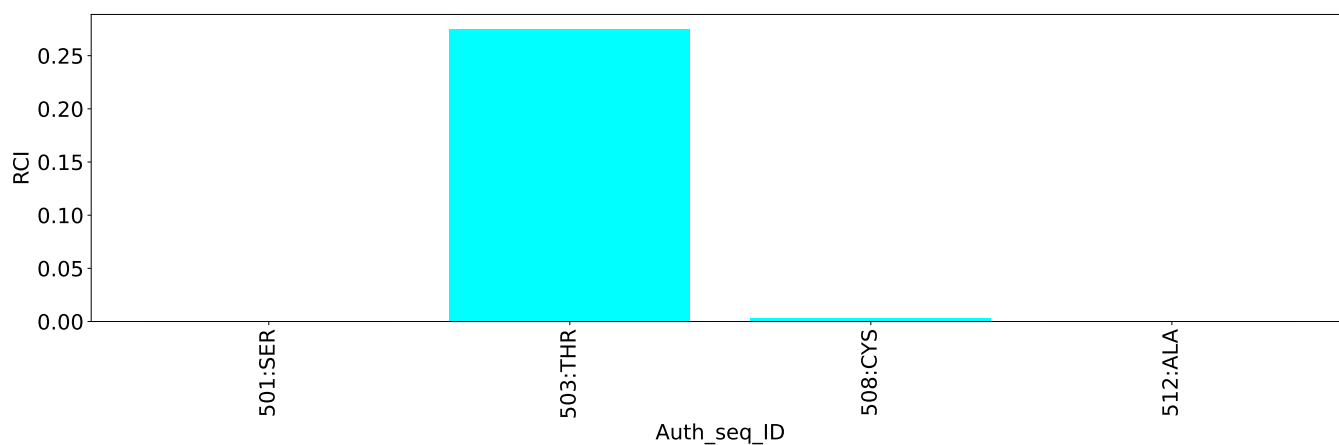
The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble

composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	2395
Intra-residue ($ i-j =0$)	221
Sequential ($ i-j =1$)	652
Medium range ($ i-j >1$ and $ i-j <5$)	733
Long range ($ i-j \geq 5$)	526
Inter-chain	138
Hydrogen bond restraints	125
Disulfide bond restraints	0
Total dihedral-angle restraints	260
Number of unmapped restraints	6
Number of restraints per residue	16.8
Number of long range restraints per residue ¹	3.3

¹Long 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)	54.1	0.2
0.2-0.5 (Medium)	22.4	0.5
>0.5 (Large)	2.7	1.99

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)	34.2	4.87
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis [i](#)

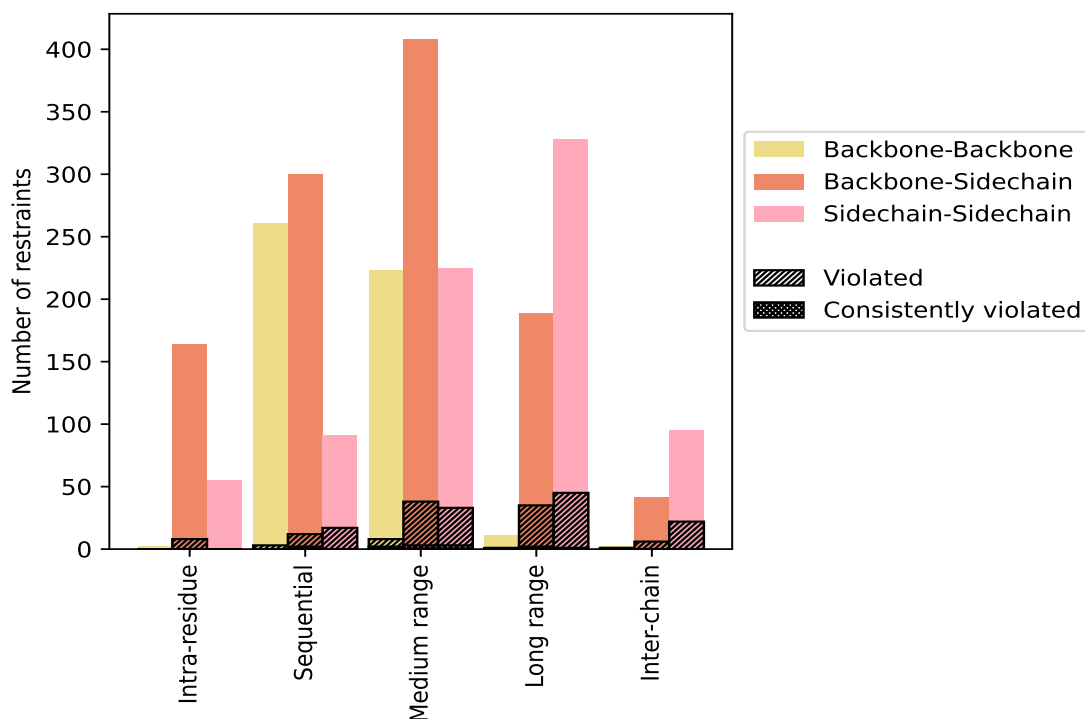
9.1 Summary of distance violations [i](#)

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.

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	221	9.2	8	3.6	0.3	0	0.0	0.0
Backbone-Backbone	2	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	164	6.8	8	4.9	0.3	0	0.0	0.0
Sidechain-Sidechain	55	2.3	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	652	27.2	32	4.9	1.3	2	0.3	0.1
Backbone-Backbone	261	10.9	3	1.1	0.1	0	0.0	0.0
Backbone-Sidechain	300	12.5	12	4.0	0.5	2	0.7	0.1
Sidechain-Sidechain	91	3.8	17	18.7	0.7	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	733	30.6	72	9.8	3.0	8	1.1	0.3
Backbone-Backbone	223	9.3	8	3.6	0.3	2	0.9	0.1
Backbone-Sidechain	285	11.9	31	10.9	1.3	3	1.1	0.1
Sidechain-Sidechain	225	9.4	33	14.7	1.4	3	1.3	0.1
Long range ($i-j \geq 5$)	526	22.0	80	15.2	3.3	3	0.6	0.1
Backbone-Backbone	11	0.5	1	9.1	0.0	0	0.0	0.0
Backbone-Sidechain	189	7.9	35	18.5	1.5	2	1.1	0.1
Sidechain-Sidechain	326	13.6	44	13.5	1.8	1	0.3	0.0
Inter-chain	138	5.8	29	21.0	1.2	0	0.0	0.0
Backbone-Backbone	2	0.1	1	50.0	0.0	0	0.0	0.0
Backbone-Sidechain	41	1.7	6	14.6	0.3	0	0.0	0.0
Sidechain-Sidechain	95	4.0	22	23.2	0.9	0	0.0	0.0
Hydrogen bond	125	5.2	8	6.4	0.3	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2395	100.0	229	9.6	9.6	13	0.5	0.5
Backbone-Backbone	499	20.8	13	2.6	0.5	2	0.4	0.1
Backbone-Sidechain	1102	46.0	99	9.0	4.1	7	0.6	0.3
Sidechain-Sidechain	794	33.2	117	14.7	4.9	4	0.5	0.2

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 [i](#)



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

9.2 Distance violation statistics for each model [i](#)

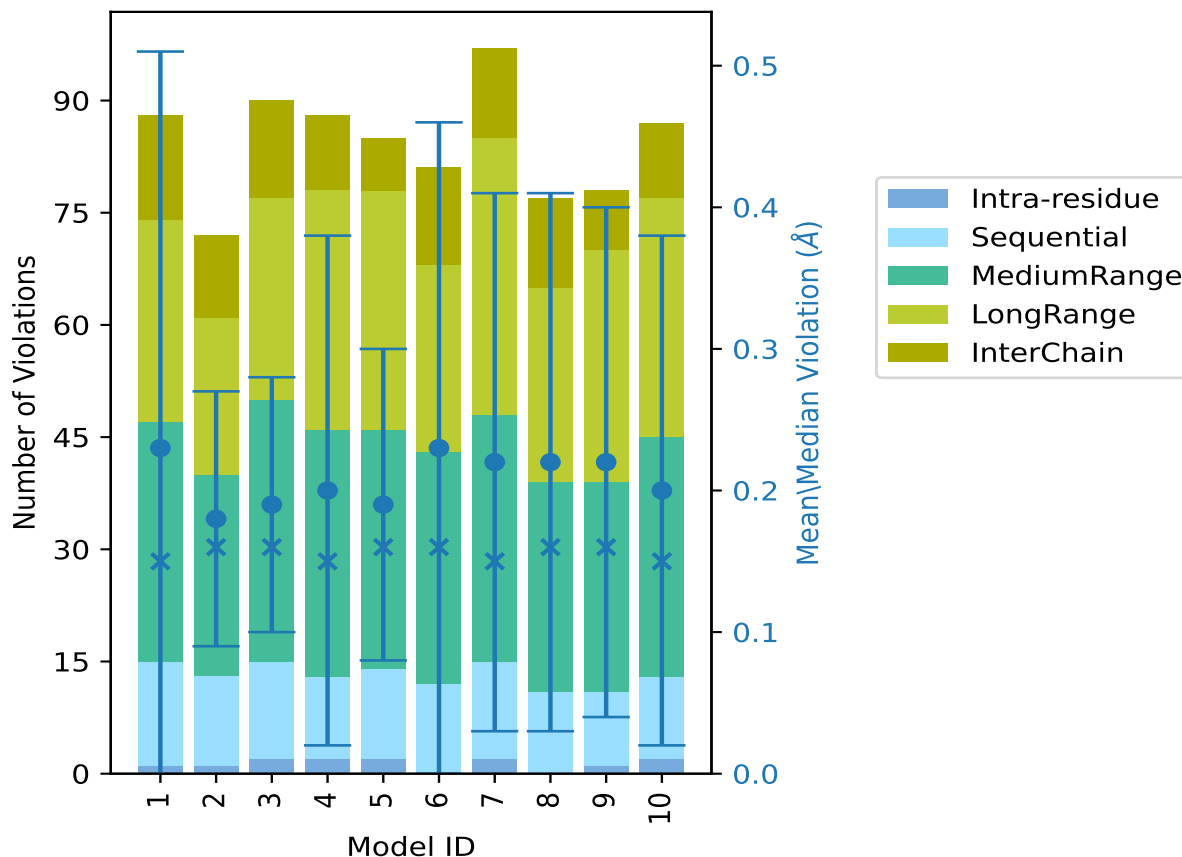
The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

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	1	14	32	27	14	88	0.23	1.99	0.28	0.15
2	1	12	27	21	11	72	0.18	0.56	0.09	0.16
3	2	13	35	27	13	90	0.19	0.63	0.09	0.16
4	2	11	33	32	10	88	0.2	1.15	0.18	0.15
5	2	12	32	32	7	85	0.19	0.98	0.11	0.16
6	0	12	31	25	13	81	0.23	1.45	0.23	0.16
7	2	13	33	37	12	97	0.22	1.29	0.19	0.15
8	0	11	28	26	12	77	0.22	1.23	0.19	0.16
9	1	10	28	31	8	78	0.22	1.1	0.18	0.16
10	2	11	32	32	10	87	0.2	1.16	0.18	0.15

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model [i](#)



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

9.3 Distance violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 2049(IR:213, SQ:620, MR:661, LR:446, IC:109) 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	%
5	10	20	18	6	59	1	10.0
1	4	9	18	4	36	2	20.0
2	3	8	14	7	34	3	30.0
0	5	8	7	3	23	4	40.0

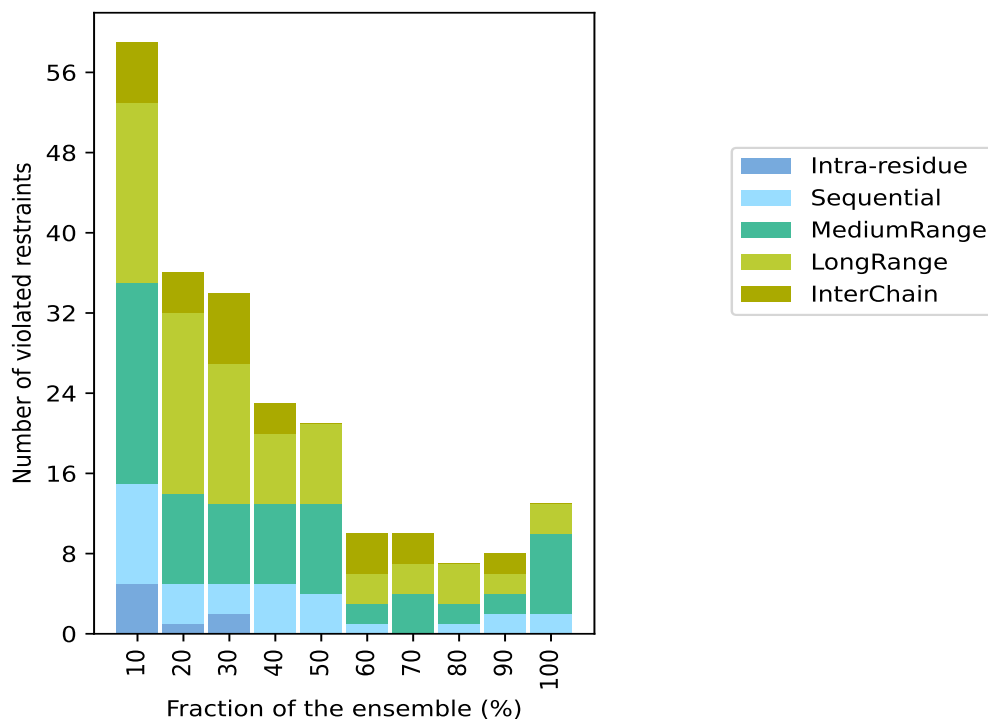
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	4	9	8	0	21	5	50.0
0	1	2	3	4	10	6	60.0
0	0	4	3	3	10	7	70.0
0	1	2	4	0	7	8	80.0
0	2	2	2	2	8	9	90.0
0	2	8	3	0	13	10	100.0

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

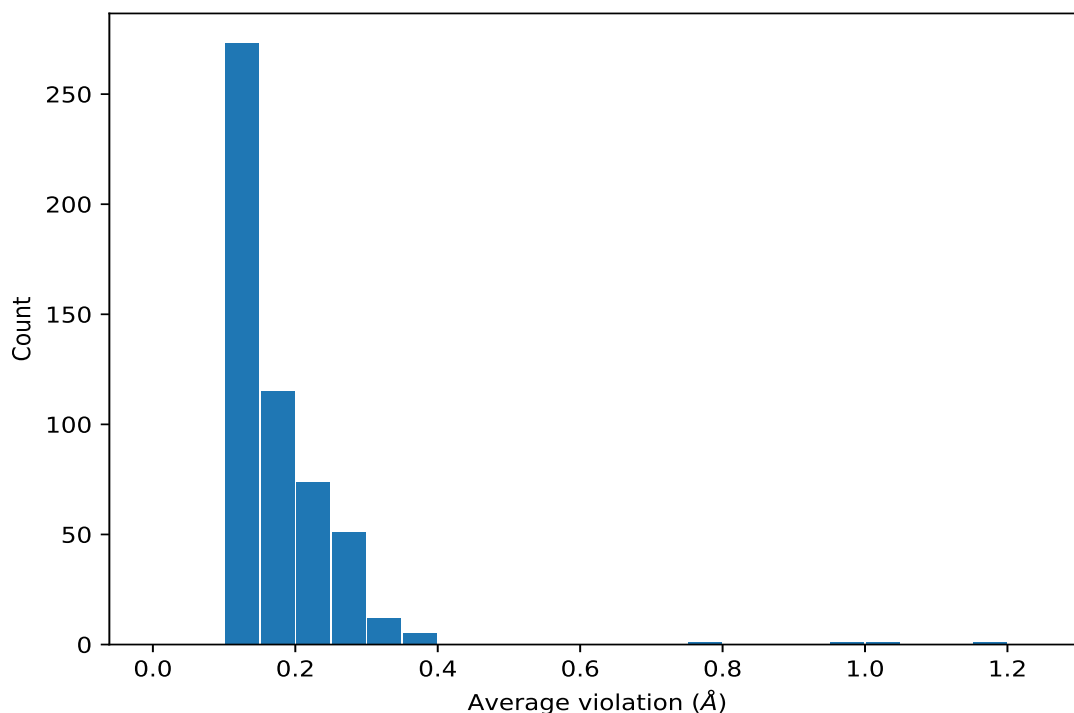
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



9.4 Most violated distance restraints in the ensemble [i](#)

9.4.1 Histogram : Distribution of mean distance violations [i](#)

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 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. 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)
(3,26)	1:112:A:ILE:HG12	1:152:A:THR:HA	10	0.39	0.09	0.36
(3,26)	1:112:A:ILE:HG13	1:152:A:THR:HA	10	0.39	0.09	0.36
(3,800)	1:164:A:GLN:HG2	1:166:A:GLU:H	10	0.34	0.05	0.36
(3,800)	1:164:A:GLN:HG3	1:166:A:GLU:H	10	0.34	0.05	0.36
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB2	10	0.32	0.02	0.34
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB3	10	0.32	0.02	0.34
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA2	10	0.28	0.11	0.24
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA3	10	0.28	0.11	0.24
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA2	10	0.28	0.11	0.24
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA3	10	0.28	0.11	0.24
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB2	10	0.27	0.03	0.26
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB3	10	0.27	0.03	0.26
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB2	10	0.27	0.03	0.26
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB3	10	0.27	0.03	0.26
(3,1544)	1:202:A:ARG:HH11	1:204:A:HIS:H	10	0.27	0.09	0.27
(3,1544)	1:202:A:ARG:HH12	1:204:A:HIS:H	10	0.27	0.09	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,1544)	1:202:A:ARG:HH21	1:204:A:HIS:H	10	0.27	0.09	0.27
(3,1544)	1:202:A:ARG:HH22	1:204:A:HIS:H	10	0.27	0.09	0.27
(3,1415)	1:193:A:ALA:HB1	1:196:A:HIS:HD2	10	0.25	0.04	0.24
(3,1415)	1:193:A:ALA:HB2	1:196:A:HIS:HD2	10	0.25	0.04	0.24
(3,1415)	1:193:A:ALA:HB3	1:196:A:HIS:HD2	10	0.25	0.04	0.24
(3,926)	1:170:A:LEU:HD11	1:240:A:MET:HA	10	0.25	0.05	0.25
(3,926)	1:170:A:LEU:HD12	1:240:A:MET:HA	10	0.25	0.05	0.25
(3,926)	1:170:A:LEU:HD13	1:240:A:MET:HA	10	0.25	0.05	0.25
(3,926)	1:170:A:LEU:HD21	1:240:A:MET:HA	10	0.25	0.05	0.25
(3,926)	1:170:A:LEU:HD22	1:240:A:MET:HA	10	0.25	0.05	0.25
(3,926)	1:170:A:LEU:HD23	1:240:A:MET:HA	10	0.25	0.05	0.25
(3,1074)	1:175:A:VAL:HG11	1:177:A:LEU:HG	10	0.24	0.04	0.24
(3,1074)	1:175:A:VAL:HG12	1:177:A:LEU:HG	10	0.24	0.04	0.24
(3,1074)	1:175:A:VAL:HG13	1:177:A:LEU:HG	10	0.24	0.04	0.24
(3,1074)	1:175:A:VAL:HG21	1:177:A:LEU:HG	10	0.24	0.04	0.24
(3,1074)	1:175:A:VAL:HG22	1:177:A:LEU:HG	10	0.24	0.04	0.24
(3,1074)	1:175:A:VAL:HG23	1:177:A:LEU:HG	10	0.24	0.04	0.24
(3,2100)	1:246:A:ALA:HA	1:249:A:VAL:HA	10	0.2	0.02	0.2
(3,920)	1:170:A:LEU:HB2	1:196:A:HIS:HD2	10	0.2	0.05	0.19
(3,920)	1:170:A:LEU:HB3	1:196:A:HIS:HD2	10	0.2	0.05	0.19
(3,1146)	1:177:A:LEU:HG	1:180:A:ALA:H	10	0.19	0.02	0.2
(3,1221)	1:179:A:ASP:H	1:182:A:GLU:H	10	0.17	0.03	0.18
(3,2212)	2:506:B:3GL:HA	3:601:B:NO1:HB1C	9	1.17	0.4	1.16
(3,2215)	2:506:B:3GL:H2	3:601:B:NO1:HB1C	9	1.0	0.44	1.07
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG21	9	0.23	0.07	0.23
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG22	9	0.23	0.07	0.23
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG23	9	0.23	0.07	0.23
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG21	9	0.23	0.07	0.23
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG22	9	0.23	0.07	0.23
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG23	9	0.23	0.07	0.23
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD11	9	0.22	0.05	0.21
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD12	9	0.22	0.05	0.21
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD13	9	0.22	0.05	0.21
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD21	9	0.22	0.05	0.21
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD22	9	0.22	0.05	0.21
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD23	9	0.22	0.05	0.21
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD11	9	0.22	0.05	0.21
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD12	9	0.22	0.05	0.21
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD13	9	0.22	0.05	0.21
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD21	9	0.22	0.05	0.21
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD22	9	0.22	0.05	0.21
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD23	9	0.22	0.05	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB2	9	0.2	0.07	0.18
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB3	9	0.2	0.07	0.18
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB2	9	0.2	0.07	0.18
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB3	9	0.2	0.07	0.18
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB2	9	0.2	0.07	0.18
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB3	9	0.2	0.07	0.18
(3,1087)	1:175:A:VAL:HG21	1:179:A:ASP:HB3	9	0.19	0.07	0.19
(3,1087)	1:175:A:VAL:HG22	1:179:A:ASP:HB3	9	0.19	0.07	0.19
(3,1087)	1:175:A:VAL:HG23	1:179:A:ASP:HB3	9	0.19	0.07	0.19
(3,2205)	2:504:B:DBU:HB	2:509:B:BB9:HB	9	0.14	0.02	0.13
(1,96)	1:224:A:ARG:O	1:228:A:ASN:H	9	0.13	0.02	0.13
(2,38)	1:177:A:LEU:HD21	1:188:A:GLY:HA3	9	0.13	0.02	0.13
(2,38)	1:177:A:LEU:HD22	1:188:A:GLY:HA3	9	0.13	0.02	0.13
(2,38)	1:177:A:LEU:HD23	1:188:A:GLY:HA3	9	0.13	0.02	0.13
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD1	8	0.32	0.08	0.32
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD2	8	0.32	0.08	0.32
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD1	8	0.32	0.08	0.32
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD2	8	0.32	0.08	0.32
(3,431)	1:138:A:ARG:HH11	1:225:A:PHE:HD1	8	0.32	0.08	0.32
(3,431)	1:138:A:ARG:HH11	1:225:A:PHE:HD2	8	0.32	0.08	0.32
(3,431)	1:138:A:ARG:HH12	1:225:A:PHE:HD1	8	0.32	0.08	0.32
(3,431)	1:138:A:ARG:HH12	1:225:A:PHE:HD2	8	0.32	0.08	0.32
(3,598)	1:151:A:LYS:HD2	1:152:A:THR:HA	8	0.19	0.05	0.21
(3,598)	1:151:A:LYS:HD3	1:152:A:THR:HA	8	0.19	0.05	0.21
(3,287)	1:128:A:PRO:HA	1:132:A:GLU:HA	8	0.16	0.04	0.14
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB2	8	0.15	0.03	0.15
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB3	8	0.15	0.03	0.15
(2,14)	1:114:A:LEU:HD11	1:157:A:LYS:HA	8	0.13	0.02	0.13
(2,14)	1:114:A:LEU:HD12	1:157:A:LYS:HA	8	0.13	0.02	0.13
(2,14)	1:114:A:LEU:HD13	1:157:A:LYS:HA	8	0.13	0.02	0.13
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB2	8	0.12	0.02	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB3	8	0.12	0.02	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB2	8	0.12	0.02	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB3	8	0.12	0.02	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB2	8	0.12	0.02	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB3	8	0.12	0.02	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB2	8	0.12	0.02	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB3	8	0.12	0.02	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB2	8	0.12	0.02	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB3	8	0.12	0.02	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB2	8	0.12	0.02	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB3	8	0.12	0.02	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,917)	1:170:A:LEU:HD11	1:195:A:ASP:H	8	0.12	0.01	0.11
(3,917)	1:170:A:LEU:HD12	1:195:A:ASP:H	8	0.12	0.01	0.11
(3,917)	1:170:A:LEU:HD13	1:195:A:ASP:H	8	0.12	0.01	0.11
(3,917)	1:170:A:LEU:HD21	1:195:A:ASP:H	8	0.12	0.01	0.11
(3,917)	1:170:A:LEU:HD22	1:195:A:ASP:H	8	0.12	0.01	0.11
(3,917)	1:170:A:LEU:HD23	1:195:A:ASP:H	8	0.12	0.01	0.11
(3,739)	1:160:A:TRP:HH2	3:601:B:NO1:HB1C	7	0.75	0.37	0.8
(3,1593)	1:209:A:TYR:HB2	1:251:A:HIS:H	7	0.3	0.03	0.29
(3,1593)	1:209:A:TYR:HB3	1:251:A:HIS:H	7	0.3	0.03	0.29
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB2	7	0.29	0.15	0.39
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB3	7	0.29	0.15	0.39
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB2	7	0.29	0.15	0.39
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB3	7	0.29	0.15	0.39
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG21	7	0.27	0.05	0.27
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG22	7	0.27	0.05	0.27
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG23	7	0.27	0.05	0.27
(3,451)	1:139:A:TRP:HZ3	2:504:B:DBU:HB	7	0.18	0.05	0.17
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB2	7	0.16	0.01	0.17
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB3	7	0.16	0.01	0.17
(3,1516)	1:200:A:ILE:HG12	2:507:B:BB9:HB	7	0.16	0.06	0.17
(3,1516)	1:200:A:ILE:HG13	2:507:B:BB9:HB	7	0.16	0.06	0.17
(3,2155)	1:249:A:VAL:HG21	1:252:A:THR:H	7	0.14	0.03	0.15
(3,2155)	1:249:A:VAL:HG22	1:252:A:THR:H	7	0.14	0.03	0.15
(3,2155)	1:249:A:VAL:HG23	1:252:A:THR:H	7	0.14	0.03	0.15
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD1	7	0.14	0.02	0.13
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD2	7	0.14	0.02	0.13
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD11	7	0.13	0.03	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD12	7	0.13	0.03	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD13	7	0.13	0.03	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD21	7	0.13	0.03	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD22	7	0.13	0.03	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD23	7	0.13	0.03	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD11	7	0.13	0.03	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD12	7	0.13	0.03	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD13	7	0.13	0.03	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD21	7	0.13	0.03	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD22	7	0.13	0.03	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD23	7	0.13	0.03	0.11
(1,124)	1:196:A:HIS:ND1	1:212:A:HIS:HE2	7	0.12	0.01	0.12
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD1	6	0.2	0.03	0.18
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD2	6	0.2	0.03	0.18
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD1	6	0.2	0.03	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD2	6	0.2	0.03	0.18
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD1	6	0.2	0.03	0.18
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD2	6	0.2	0.03	0.18
(2,20)	1:132:A:GLU:HA	2:503:B:THR:HA	6	0.18	0.02	0.18
(3,1681)	1:218:A:MET:HA	1:221:A:SER:HA	6	0.17	0.05	0.18
(3,393)	1:135:A:VAL:HG21	2:503:B:THR:HB	6	0.17	0.02	0.17
(3,393)	1:135:A:VAL:HG22	2:503:B:THR:HB	6	0.17	0.02	0.17
(3,393)	1:135:A:VAL:HG23	2:503:B:THR:HB	6	0.17	0.02	0.17
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG1	6	0.15	0.03	0.15
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG2	6	0.15	0.03	0.15
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG3	6	0.15	0.03	0.15
(3,1532)	1:201:A:ALA:H	1:206:A:ASP:HA	6	0.15	0.04	0.15
(3,275)	1:126:A:PHE:HE1	2:506:B:3GL:HA	6	0.15	0.02	0.16
(3,275)	1:126:A:PHE:HE2	2:506:B:3GL:HA	6	0.15	0.02	0.16
(3,34)	1:112:A:ILE:HB	1:160:A:TRP:HE1	6	0.15	0.01	0.15
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD11	6	0.12	0.01	0.12
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD12	6	0.12	0.01	0.12
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD13	6	0.12	0.01	0.12
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD11	6	0.12	0.01	0.12
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD12	6	0.12	0.01	0.12
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD13	6	0.12	0.01	0.12
(3,933)	1:171:A:THR:H	1:172:A:ARG:HA	6	0.12	0.01	0.12
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG21	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG22	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG23	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG21	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG22	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG23	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG21	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG22	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG23	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG21	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG22	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG23	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG21	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG22	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG23	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG21	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG22	5	0.21	0.07	0.25
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG23	5	0.21	0.07	0.25
(3,2141)	1:249:A:VAL:HG21	1:250:A:ARG:H	5	0.2	0.05	0.23
(3,2141)	1:249:A:VAL:HG22	1:250:A:ARG:H	5	0.2	0.05	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,2141)	1:249:A:VAL:HG23	1:250:A:ARG:H	5	0.2	0.05	0.23
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD2	5	0.2	0.04	0.19
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD3	5	0.2	0.04	0.19
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD2	5	0.2	0.04	0.19
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD3	5	0.2	0.04	0.19
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD2	5	0.2	0.04	0.19
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD3	5	0.2	0.04	0.19
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG2	5	0.2	0.06	0.23
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG3	5	0.2	0.06	0.23
(3,1633)	1:213:A:THR:HG21	1:248:A:ALA:H	5	0.19	0.06	0.22
(3,1633)	1:213:A:THR:HG22	1:248:A:ALA:H	5	0.19	0.06	0.22
(3,1633)	1:213:A:THR:HG23	1:248:A:ALA:H	5	0.19	0.06	0.22
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD1	5	0.19	0.04	0.19
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD2	5	0.19	0.04	0.19
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD1	5	0.19	0.04	0.19
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD2	5	0.19	0.04	0.19
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE1	5	0.18	0.01	0.18
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE2	5	0.18	0.01	0.18
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE1	5	0.18	0.01	0.18
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE2	5	0.18	0.01	0.18
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB2	5	0.18	0.02	0.18
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB3	5	0.18	0.02	0.18
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB1	5	0.18	0.04	0.17
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB2	5	0.18	0.04	0.17
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB3	5	0.18	0.04	0.17
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB1	5	0.18	0.04	0.17
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB2	5	0.18	0.04	0.17
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB3	5	0.18	0.04	0.17
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE1	5	0.16	0.06	0.14
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE2	5	0.16	0.06	0.14
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE3	5	0.16	0.06	0.14
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE1	5	0.16	0.06	0.14
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE2	5	0.16	0.06	0.14
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE3	5	0.16	0.06	0.14
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG2	5	0.16	0.02	0.16
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG3	5	0.16	0.02	0.16
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG2	5	0.16	0.02	0.16
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG3	5	0.16	0.02	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB1	5	0.16	0.02	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB2	5	0.16	0.02	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB3	5	0.16	0.02	0.16
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB1	5	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB2	5	0.16	0.02	0.16
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB3	5	0.16	0.02	0.16
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG2	5	0.15	0.02	0.16
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG3	5	0.15	0.02	0.16
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB2	5	0.14	0.01	0.14
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB3	5	0.14	0.01	0.14
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB2	5	0.14	0.01	0.14
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB3	5	0.14	0.01	0.14
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB2	5	0.14	0.01	0.14
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB3	5	0.14	0.01	0.14
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG11	5	0.14	0.01	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG12	5	0.14	0.01	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG13	5	0.14	0.01	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG11	5	0.14	0.01	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG12	5	0.14	0.01	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG13	5	0.14	0.01	0.15
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE1	5	0.14	0.02	0.13
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE2	5	0.14	0.02	0.13
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE1	5	0.14	0.02	0.13
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE2	5	0.14	0.02	0.13
(3,1837)	1:227:A:ARG:HA	1:230:A:ASP:HA	5	0.12	0.04	0.11
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD2	5	0.12	0.02	0.12
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD3	5	0.12	0.02	0.12
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD2	5	0.12	0.02	0.12
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD3	5	0.12	0.02	0.12
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD2	5	0.12	0.02	0.12
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD3	5	0.12	0.02	0.12
(3,751)	1:161:A:GLN:HA	1:164:A:GLN:HA	5	0.12	0.01	0.12
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB2	5	0.12	0.01	0.11
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB3	5	0.12	0.01	0.11
(3,779)	1:163:A:ILE:HB	1:166:A:GLU:H	5	0.11	0.01	0.11
(3,2221)	2:508:B:CYS:H	3:601:B:NO1:HB1C	4	0.98	0.09	0.94
(3,122)	1:117:A:GLU:HG2	1:121:A:GLU:HG2	4	0.28	0.12	0.32
(3,122)	1:117:A:GLU:HG2	1:121:A:GLU:HG3	4	0.28	0.12	0.32
(3,122)	1:117:A:GLU:HG3	1:121:A:GLU:HG2	4	0.28	0.12	0.32
(3,122)	1:117:A:GLU:HG3	1:121:A:GLU:HG3	4	0.28	0.12	0.32
(3,171)	1:120:A:PHE:HE1	1:124:A:GLY:HA2	4	0.28	0.08	0.27
(3,171)	1:120:A:PHE:HE1	1:124:A:GLY:HA3	4	0.28	0.08	0.27
(3,171)	1:120:A:PHE:HE2	1:124:A:GLY:HA2	4	0.28	0.08	0.27
(3,171)	1:120:A:PHE:HE2	1:124:A:GLY:HA3	4	0.28	0.08	0.27
(3,1774)	1:224:A:ARG:HG2	2:505:B:BB9:HB	4	0.26	0.09	0.24
(3,1774)	1:224:A:ARG:HG3	2:505:B:BB9:HB	4	0.26	0.09	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,600)	1:151:A:LYS:HE2	1:152:A:THR:HA	4	0.23	0.1	0.24
(3,600)	1:151:A:LYS:HE3	1:152:A:THR:HA	4	0.23	0.1	0.24
(3,1333)	1:187:A:GLU:HG2	1:190:A:MET:HB2	4	0.18	0.03	0.19
(3,1333)	1:187:A:GLU:HG2	1:190:A:MET:HB3	4	0.18	0.03	0.19
(3,1333)	1:187:A:GLU:HG3	1:190:A:MET:HB2	4	0.18	0.03	0.19
(3,1333)	1:187:A:GLU:HG3	1:190:A:MET:HB3	4	0.18	0.03	0.19
(3,430)	1:138:A:ARG:HG2	1:139:A:TRP:HZ2	4	0.17	0.03	0.16
(3,430)	1:138:A:ARG:HG3	1:139:A:TRP:HZ2	4	0.17	0.03	0.16
(3,1546)	1:203:A:ASN:H	1:204:A:HIS:HE1	4	0.16	0.03	0.17
(3,286)	1:128:A:PRO:HA	1:131:A:TYR:HE1	4	0.16	0.02	0.16
(3,286)	1:128:A:PRO:HA	1:131:A:TYR:HE2	4	0.16	0.02	0.16
(3,607)	1:151:A:LYS:HE2	1:202:A:ARG:HA	4	0.16	0.05	0.15
(3,607)	1:151:A:LYS:HE3	1:202:A:ARG:HA	4	0.16	0.05	0.15
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG11	4	0.15	0.02	0.16
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG12	4	0.15	0.02	0.16
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG13	4	0.15	0.02	0.16
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG21	4	0.15	0.02	0.16
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG22	4	0.15	0.02	0.16
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG23	4	0.15	0.02	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG11	4	0.15	0.02	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG12	4	0.15	0.02	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG13	4	0.15	0.02	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG21	4	0.15	0.02	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG22	4	0.15	0.02	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG23	4	0.15	0.02	0.16
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB1	4	0.14	0.03	0.14
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB2	4	0.14	0.03	0.14
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB3	4	0.14	0.03	0.14
(3,1518)	1:200:A:ILE:HG21	2:508:B:CYS:HA	4	0.14	0.03	0.12
(3,1518)	1:200:A:ILE:HG22	2:508:B:CYS:HA	4	0.14	0.03	0.12
(3,1518)	1:200:A:ILE:HG23	2:508:B:CYS:HA	4	0.14	0.03	0.12
(3,1930)	1:233:A:LYS:HA	1:234:A:PRO:HB2	4	0.13	0.04	0.11
(3,1930)	1:233:A:LYS:HA	1:234:A:PRO:HB3	4	0.13	0.04	0.11
(3,249)	1:125:A:ASP:HB2	1:227:A:ARG:HD2	4	0.13	0.01	0.13
(3,249)	1:125:A:ASP:HB2	1:227:A:ARG:HD3	4	0.13	0.01	0.13
(3,249)	1:125:A:ASP:HB3	1:227:A:ARG:HD2	4	0.13	0.01	0.13
(3,249)	1:125:A:ASP:HB3	1:227:A:ARG:HD3	4	0.13	0.01	0.13
(3,1173)	1:177:A:LEU:HB2	1:239:A:TYR:HE1	4	0.13	0.02	0.13
(3,1173)	1:177:A:LEU:HB2	1:239:A:TYR:HE2	4	0.13	0.02	0.13
(3,1173)	1:177:A:LEU:HB3	1:239:A:TYR:HE1	4	0.13	0.02	0.13
(3,1173)	1:177:A:LEU:HB3	1:239:A:TYR:HE2	4	0.13	0.02	0.13
(3,1936)	1:233:A:LYS:HD2	1:236:A:LEU:HA	4	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,1936)	1:233:A:LYS:HD3	1:236:A:LEU:HA	4	0.12	0.01	0.12
(3,1031)	1:174:A:PHE:HA	1:178:A:MET:HG2	4	0.12	0.01	0.12
(3,1031)	1:174:A:PHE:HA	1:178:A:MET:HG3	4	0.12	0.01	0.12
(3,1877)	1:229:A:ILE:HB	1:237:A:ALA:H	4	0.12	0.01	0.12
(3,508)	1:145:A:TYR:HE1	1:146:A:ARG:HG2	4	0.12	0.01	0.11
(3,508)	1:145:A:TYR:HE1	1:146:A:ARG:HG3	4	0.12	0.01	0.11
(3,508)	1:145:A:TYR:HE2	1:146:A:ARG:HG2	4	0.12	0.01	0.11
(3,508)	1:145:A:TYR:HE2	1:146:A:ARG:HG3	4	0.12	0.01	0.11
(3,115)	1:117:A:GLU:H	1:119:A:LYS:HD2	4	0.12	0.01	0.12
(3,115)	1:117:A:GLU:H	1:119:A:LYS:HD3	4	0.12	0.01	0.12
(3,1160)	1:177:A:LEU:HD21	1:188:A:GLY:H	4	0.11	0.01	0.12
(3,1160)	1:177:A:LEU:HD22	1:188:A:GLY:H	4	0.11	0.01	0.12
(3,1160)	1:177:A:LEU:HD23	1:188:A:GLY:H	4	0.11	0.01	0.12
(3,1089)	1:175:A:VAL:HG11	1:232:A:ALA:HB1	4	0.11	0.01	0.1
(3,1089)	1:175:A:VAL:HG12	1:232:A:ALA:HB1	4	0.11	0.01	0.1
(3,1089)	1:175:A:VAL:HG13	1:232:A:ALA:HB1	4	0.11	0.01	0.1
(3,2214)	2:506:B:3GL:HB2C	3:601:B:NO1:HB1C	3	0.39	0.12	0.34
(3,1939)	1:233:A:LYS:HG2	1:236:A:LEU:HA	3	0.38	0.01	0.38
(3,1939)	1:233:A:LYS:HG3	1:236:A:LEU:HA	3	0.38	0.01	0.38
(3,548)	1:147:A:GLN:HG2	1:206:A:ASP:HB2	3	0.28	0.02	0.28
(3,548)	1:147:A:GLN:HG2	1:206:A:ASP:HB3	3	0.28	0.02	0.28
(3,548)	1:147:A:GLN:HG3	1:206:A:ASP:HB2	3	0.28	0.02	0.28
(3,548)	1:147:A:GLN:HG3	1:206:A:ASP:HB3	3	0.28	0.02	0.28
(3,1461)	1:196:A:HIS:HD2	1:219:A:TYR:HE1	3	0.27	0.06	0.31
(3,1461)	1:196:A:HIS:HD2	1:219:A:TYR:HE2	3	0.27	0.06	0.31
(3,1925)	1:233:A:LYS:HD2	1:233:A:LYS:HA	3	0.21	0.01	0.22
(3,1925)	1:233:A:LYS:HD3	1:233:A:LYS:HA	3	0.21	0.01	0.22
(3,1849)	1:228:A:ASN:HB2	2:505:B:BB9:HB	3	0.2	0.06	0.19
(3,1683)	1:218:A:MET:HB2	2:509:B:BB9:HB	3	0.19	0.02	0.19
(3,1683)	1:218:A:MET:HB3	2:509:B:BB9:HB	3	0.19	0.02	0.19
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB1	3	0.18	0.05	0.15
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB2	3	0.18	0.05	0.15
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB3	3	0.18	0.05	0.15
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB1	3	0.18	0.05	0.15
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB2	3	0.18	0.05	0.15
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB3	3	0.18	0.05	0.15
(3,1447)	1:195:A:ASP:HB2	1:198:A:GLN:HB2	3	0.18	0.06	0.16
(3,1447)	1:195:A:ASP:HB2	1:198:A:GLN:HB3	3	0.18	0.06	0.16
(3,1447)	1:195:A:ASP:HB3	1:198:A:GLN:HB2	3	0.18	0.06	0.16
(3,1447)	1:195:A:ASP:HB3	1:198:A:GLN:HB3	3	0.18	0.06	0.16
(3,989)	1:173:A:ARG:HH21	1:174:A:PHE:HD1	3	0.17	0.0	0.17
(3,989)	1:173:A:ARG:HH21	1:174:A:PHE:HD2	3	0.17	0.0	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,989)	1:173:A:ARG:HH22	1:174:A:PHE:HD1	3	0.17	0.0	0.17
(3,989)	1:173:A:ARG:HH22	1:174:A:PHE:HD2	3	0.17	0.0	0.17
(3,1469)	1:197:A:ARG:HG2	1:209:A:TYR:HD1	3	0.17	0.03	0.15
(3,1469)	1:197:A:ARG:HG2	1:209:A:TYR:HD2	3	0.17	0.03	0.15
(3,1469)	1:197:A:ARG:HG3	1:209:A:TYR:HD1	3	0.17	0.03	0.15
(3,1469)	1:197:A:ARG:HG3	1:209:A:TYR:HD2	3	0.17	0.03	0.15
(3,1658)	1:215:A:LEU:HG	2:508:B:CYS:HB3	3	0.17	0.06	0.13
(3,733)	1:160:A:TRP:H	1:163:A:ILE:HG12	3	0.17	0.02	0.16
(3,733)	1:160:A:TRP:H	1:163:A:ILE:HG13	3	0.17	0.02	0.16
(3,1393)	1:191:A:ASP:HB2	1:195:A:ASP:HB2	3	0.17	0.02	0.16
(3,1393)	1:191:A:ASP:HB2	1:195:A:ASP:HB3	3	0.17	0.02	0.16
(3,1393)	1:191:A:ASP:HB3	1:195:A:ASP:HB2	3	0.17	0.02	0.16
(3,1393)	1:191:A:ASP:HB3	1:195:A:ASP:HB3	3	0.17	0.02	0.16
(3,1460)	1:196:A:HIS:HE1	1:215:A:LEU:HB2	3	0.16	0.01	0.17
(3,1460)	1:196:A:HIS:HE1	1:215:A:LEU:HB3	3	0.16	0.01	0.17
(3,1563)	1:205:A:TYR:HD1	2:508:B:CYS:HB3	3	0.16	0.04	0.13
(3,1563)	1:205:A:TYR:HD2	2:508:B:CYS:HB3	3	0.16	0.04	0.13
(3,1933)	1:233:A:LYS:HG2	1:235:A:GLY:H	3	0.15	0.01	0.15
(3,1933)	1:233:A:LYS:HG3	1:235:A:GLY:H	3	0.15	0.01	0.15
(3,1226)	1:179:A:ASP:HA	1:233:A:LYS:HD2	3	0.15	0.0	0.15
(3,1226)	1:179:A:ASP:HA	1:233:A:LYS:HD3	3	0.15	0.0	0.15
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB1	3	0.15	0.05	0.11
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB2	3	0.15	0.05	0.11
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB3	3	0.15	0.05	0.11
(3,444)	1:139:A:TRP:HZ2	1:225:A:PHE:HE1	3	0.14	0.02	0.14
(3,444)	1:139:A:TRP:HZ2	1:225:A:PHE:HE2	3	0.14	0.02	0.14
(2,29)	1:160:A:TRP:HH2	3:601:B:NO1:HZ3	3	0.14	0.01	0.13
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG21	3	0.14	0.02	0.15
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG22	3	0.14	0.02	0.15
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG23	3	0.14	0.02	0.15
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG21	3	0.14	0.02	0.15
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG22	3	0.14	0.02	0.15
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG23	3	0.14	0.02	0.15
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG21	3	0.14	0.02	0.15
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG22	3	0.14	0.02	0.15
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG23	3	0.14	0.02	0.15
(3,1099)	1:175:A:VAL:HG11	1:233:A:LYS:HG3	3	0.14	0.01	0.14
(3,1099)	1:175:A:VAL:HG12	1:233:A:LYS:HG3	3	0.14	0.01	0.14
(3,1099)	1:175:A:VAL:HG13	1:233:A:LYS:HG3	3	0.14	0.01	0.14
(3,2060)	1:242:A:ASP:HB2	1:246:A:ALA:H	3	0.14	0.01	0.13
(3,2060)	1:242:A:ASP:HB3	1:246:A:ALA:H	3	0.14	0.01	0.13
(3,516)	1:145:A:TYR:HA	2:501:B:SER:HB3	3	0.13	0.02	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,1199)	1:178:A:MET:HE1	1:236:A:LEU:HG	3	0.13	0.02	0.13
(3,1199)	1:178:A:MET:HE2	1:236:A:LEU:HG	3	0.13	0.02	0.13
(3,1199)	1:178:A:MET:HE3	1:236:A:LEU:HG	3	0.13	0.02	0.13
(3,988)	1:173:A:ARG:HG2	1:174:A:PHE:HZ	3	0.13	0.01	0.12
(3,988)	1:173:A:ARG:HG3	1:174:A:PHE:HZ	3	0.13	0.01	0.12
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB1	3	0.13	0.01	0.14
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB2	3	0.13	0.01	0.14
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB3	3	0.13	0.01	0.14
(3,131)	1:118:A:GLU:HG2	1:157:A:LYS:HD2	3	0.12	0.01	0.13
(3,131)	1:118:A:GLU:HG2	1:157:A:LYS:HD3	3	0.12	0.01	0.13
(3,131)	1:118:A:GLU:HG3	1:157:A:LYS:HD2	3	0.12	0.01	0.13
(3,131)	1:118:A:GLU:HG3	1:157:A:LYS:HD3	3	0.12	0.01	0.13
(3,944)	1:171:A:THR:HA	1:174:A:PHE:HE1	3	0.12	0.03	0.1
(3,944)	1:171:A:THR:HA	1:174:A:PHE:HE2	3	0.12	0.03	0.1
(3,1158)	1:177:A:LEU:HD11	1:188:A:GLY:HA2	3	0.12	0.01	0.11
(3,1158)	1:177:A:LEU:HD12	1:188:A:GLY:HA2	3	0.12	0.01	0.11
(3,1158)	1:177:A:LEU:HD13	1:188:A:GLY:HA2	3	0.12	0.01	0.11
(3,2049)	1:241:A:ARG:HD2	1:245:A:LEU:HA	3	0.12	0.01	0.11
(3,2049)	1:241:A:ARG:HD3	1:245:A:LEU:HA	3	0.12	0.01	0.11
(3,1924)	1:233:A:LYS:H	1:233:A:LYS:HD2	3	0.11	0.02	0.1
(3,1924)	1:233:A:LYS:H	1:233:A:LYS:HD3	3	0.11	0.02	0.1
(3,1307)	1:186:A:SER:H	1:187:A:GLU:H	3	0.11	0.0	0.11
(3,1695)	1:219:A:TYR:HE1	1:226:A:THR:HA	2	0.3	0.01	0.3
(3,1695)	1:219:A:TYR:HE2	1:226:A:THR:HA	2	0.3	0.01	0.3
(4,2)	1:175:A:VAL:HG21	1:233:A:LYS:HE2	2	0.29	0.0	0.29
(4,2)	1:175:A:VAL:HG22	1:233:A:LYS:HE2	2	0.29	0.0	0.29
(4,2)	1:175:A:VAL:HG23	1:233:A:LYS:HE2	2	0.29	0.0	0.29
(3,1418)	1:193:A:ALA:HA	1:212:A:HIS:HE1	2	0.24	0.0	0.24
(1,24)	1:149:A:LYS:O	1:153:A:ALA:H	2	0.19	0.0	0.19
(3,1709)	1:219:A:TYR:HD1	2:507:B:BB9:HB	2	0.16	0.02	0.16
(3,1709)	1:219:A:TYR:HD2	2:507:B:BB9:HB	2	0.16	0.02	0.16
(3,202)	1:122:A:VAL:HG11	1:160:A:TRP:HA	2	0.16	0.0	0.16
(3,202)	1:122:A:VAL:HG12	1:160:A:TRP:HA	2	0.16	0.0	0.16
(3,202)	1:122:A:VAL:HG13	1:160:A:TRP:HA	2	0.16	0.0	0.16
(3,202)	1:122:A:VAL:HG21	1:160:A:TRP:HA	2	0.16	0.0	0.16
(3,202)	1:122:A:VAL:HG22	1:160:A:TRP:HA	2	0.16	0.0	0.16
(3,202)	1:122:A:VAL:HG23	1:160:A:TRP:HA	2	0.16	0.0	0.16
(3,549)	1:147:A:GLN:HE21	1:206:A:ASP:H	2	0.16	0.02	0.16
(3,549)	1:147:A:GLN:HE22	1:206:A:ASP:H	2	0.16	0.02	0.16
(3,1098)	1:175:A:VAL:HG11	1:233:A:LYS:HA	2	0.16	0.02	0.16
(3,1098)	1:175:A:VAL:HG12	1:233:A:LYS:HA	2	0.16	0.02	0.16
(3,1098)	1:175:A:VAL:HG13	1:233:A:LYS:HA	2	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,1376)	1:190:A:MET:HB2	1:247:A:ASN:H	2	0.16	0.02	0.16
(3,1376)	1:190:A:MET:HB3	1:247:A:ASN:H	2	0.16	0.02	0.16
(3,1507)	1:200:A:ILE:HG12	1:205:A:TYR:H	2	0.16	0.02	0.16
(3,1507)	1:200:A:ILE:HG13	1:205:A:TYR:H	2	0.16	0.02	0.16
(3,1708)	1:219:A:TYR:H	1:241:A:ARG:HG2	2	0.16	0.04	0.16
(3,1708)	1:219:A:TYR:H	1:241:A:ARG:HG3	2	0.16	0.04	0.16
(3,1588)	1:209:A:TYR:HE1	1:248:A:ALA:HB1	2	0.15	0.02	0.15
(3,1588)	1:209:A:TYR:HE1	1:248:A:ALA:HB2	2	0.15	0.02	0.15
(3,1588)	1:209:A:TYR:HE1	1:248:A:ALA:HB3	2	0.15	0.02	0.15
(3,1588)	1:209:A:TYR:HE2	1:248:A:ALA:HB1	2	0.15	0.02	0.15
(3,1588)	1:209:A:TYR:HE2	1:248:A:ALA:HB2	2	0.15	0.02	0.15
(3,1588)	1:209:A:TYR:HE2	1:248:A:ALA:HB3	2	0.15	0.02	0.15
(3,515)	1:145:A:TYR:HD1	1:149:A:LYS:HZ1	2	0.15	0.0	0.15
(3,515)	1:145:A:TYR:HD1	1:149:A:LYS:HZ2	2	0.15	0.0	0.15
(3,515)	1:145:A:TYR:HD1	1:149:A:LYS:HZ3	2	0.15	0.0	0.15
(3,515)	1:145:A:TYR:HD2	1:149:A:LYS:HZ1	2	0.15	0.0	0.15
(3,515)	1:145:A:TYR:HD2	1:149:A:LYS:HZ2	2	0.15	0.0	0.15
(3,515)	1:145:A:TYR:HD2	1:149:A:LYS:HZ3	2	0.15	0.0	0.15
(3,1212)	1:178:A:MET:HE1	1:239:A:TYR:HA	2	0.15	0.0	0.15
(3,1212)	1:178:A:MET:HE2	1:239:A:TYR:HA	2	0.15	0.0	0.15
(3,1212)	1:178:A:MET:HE3	1:239:A:TYR:HA	2	0.15	0.0	0.15
(3,94)	1:115:A:THR:HG21	1:117:A:GLU:HG2	2	0.15	0.02	0.15
(3,94)	1:115:A:THR:HG21	1:117:A:GLU:HG3	2	0.15	0.02	0.15
(3,94)	1:115:A:THR:HG22	1:117:A:GLU:HG2	2	0.15	0.02	0.15
(3,94)	1:115:A:THR:HG22	1:117:A:GLU:HG3	2	0.15	0.02	0.15
(3,94)	1:115:A:THR:HG23	1:117:A:GLU:HG2	2	0.15	0.02	0.15
(3,94)	1:115:A:THR:HG23	1:117:A:GLU:HG3	2	0.15	0.02	0.15
(3,824)	1:166:A:GLU:HG2	1:167:A:ALA:HA	2	0.15	0.02	0.15
(3,824)	1:166:A:GLU:HG3	1:167:A:ALA:HA	2	0.15	0.02	0.15
(3,364)	1:135:A:VAL:H	1:136:A:ARG:HA	2	0.14	0.01	0.14
(3,1848)	1:228:A:ASN:HB3	2:505:B:BB9:HB	2	0.14	0.01	0.14
(3,1652)	1:215:A:LEU:HB2	1:244:A:ILE:HG12	2	0.14	0.02	0.14
(3,1652)	1:215:A:LEU:HB2	1:244:A:ILE:HG13	2	0.14	0.02	0.14
(3,1652)	1:215:A:LEU:HB3	1:244:A:ILE:HG12	2	0.14	0.02	0.14
(3,1652)	1:215:A:LEU:HB3	1:244:A:ILE:HG13	2	0.14	0.02	0.14
(3,380)	1:135:A:VAL:HG11	1:142:A:THR:HG21	2	0.13	0.02	0.13
(3,380)	1:135:A:VAL:HG11	1:142:A:THR:HG22	2	0.13	0.02	0.13
(3,380)	1:135:A:VAL:HG11	1:142:A:THR:HG23	2	0.13	0.02	0.13
(3,380)	1:135:A:VAL:HG12	1:142:A:THR:HG21	2	0.13	0.02	0.13
(3,380)	1:135:A:VAL:HG12	1:142:A:THR:HG22	2	0.13	0.02	0.13
(3,380)	1:135:A:VAL:HG12	1:142:A:THR:HG23	2	0.13	0.02	0.13
(3,380)	1:135:A:VAL:HG13	1:142:A:THR:HG21	2	0.13	0.02	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,380)	1:135:A:VAL:HG13	1:142:A:THR:HG22	2	0.13	0.02	0.13
(3,380)	1:135:A:VAL:HG13	1:142:A:THR:HG23	2	0.13	0.02	0.13
(3,536)	1:147:A:GLN:HB2	1:148:A:SER:HB2	2	0.13	0.0	0.13
(3,536)	1:147:A:GLN:HB2	1:148:A:SER:HB3	2	0.13	0.0	0.13
(3,536)	1:147:A:GLN:HB3	1:148:A:SER:HB2	2	0.13	0.0	0.13
(3,536)	1:147:A:GLN:HB3	1:148:A:SER:HB3	2	0.13	0.0	0.13
(1,86)	1:210:A:GLU:O	1:214:A:CYS:H	2	0.12	0.01	0.12
(3,651)	1:155:A:TYR:HE1	1:163:A:ILE:HG21	2	0.12	0.02	0.12
(3,651)	1:155:A:TYR:HE1	1:163:A:ILE:HG22	2	0.12	0.02	0.12
(3,651)	1:155:A:TYR:HE1	1:163:A:ILE:HG23	2	0.12	0.02	0.12
(3,651)	1:155:A:TYR:HE2	1:163:A:ILE:HG21	2	0.12	0.02	0.12
(3,651)	1:155:A:TYR:HE2	1:163:A:ILE:HG22	2	0.12	0.02	0.12
(3,651)	1:155:A:TYR:HE2	1:163:A:ILE:HG23	2	0.12	0.02	0.12
(3,1312)	1:186:A:SER:HA	1:187:A:GLU:HB2	2	0.12	0.01	0.12
(3,1312)	1:186:A:SER:HA	1:187:A:GLU:HB3	2	0.12	0.01	0.12
(3,350)	1:133:A:GLU:HB2	1:135:A:VAL:H	2	0.12	0.02	0.12
(3,350)	1:133:A:GLU:HB3	1:135:A:VAL:H	2	0.12	0.02	0.12
(3,741)	1:160:A:TRP:HZ2	3:601:B:NO1:HZ2	2	0.12	0.0	0.12
(3,1656)	1:215:A:LEU:HD11	2:508:B:CYS:HB2	2	0.12	0.0	0.12
(3,1656)	1:215:A:LEU:HD11	2:508:B:CYS:HB3	2	0.12	0.0	0.12
(3,1656)	1:215:A:LEU:HD12	2:508:B:CYS:HB2	2	0.12	0.0	0.12
(3,1656)	1:215:A:LEU:HD12	2:508:B:CYS:HB3	2	0.12	0.0	0.12
(3,1656)	1:215:A:LEU:HD13	2:508:B:CYS:HB2	2	0.12	0.0	0.12
(3,1656)	1:215:A:LEU:HD13	2:508:B:CYS:HB3	2	0.12	0.0	0.12
(1,102)	1:227:A:ARG:O	1:231:A:ALA:H	2	0.11	0.01	0.11
(3,156)	1:120:A:PHE:HE1	1:120:A:PHE:HA	2	0.11	0.0	0.11
(3,156)	1:120:A:PHE:HE2	1:120:A:PHE:HA	2	0.11	0.0	0.11
(3,271)	1:126:A:PHE:HA	1:131:A:TYR:HD1	2	0.11	0.0	0.11
(3,271)	1:126:A:PHE:HA	1:131:A:TYR:HD2	2	0.11	0.0	0.11
(3,355)	1:133:A:GLU:HG2	1:136:A:ARG:HB2	2	0.11	0.01	0.11
(3,355)	1:133:A:GLU:HG2	1:136:A:ARG:HB3	2	0.11	0.01	0.11
(3,355)	1:133:A:GLU:HG3	1:136:A:ARG:HB2	2	0.11	0.01	0.11
(3,355)	1:133:A:GLU:HG3	1:136:A:ARG:HB3	2	0.11	0.01	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD11	2	0.11	0.0	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD12	2	0.11	0.0	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD13	2	0.11	0.0	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD21	2	0.11	0.0	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD22	2	0.11	0.0	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD23	2	0.11	0.0	0.11
(3,1328)	1:187:A:GLU:HA	1:189:A:ALA:HB1	2	0.11	0.01	0.11
(3,1328)	1:187:A:GLU:HA	1:189:A:ALA:HB2	2	0.11	0.01	0.11
(3,1328)	1:187:A:GLU:HA	1:189:A:ALA:HB3	2	0.11	0.01	0.11

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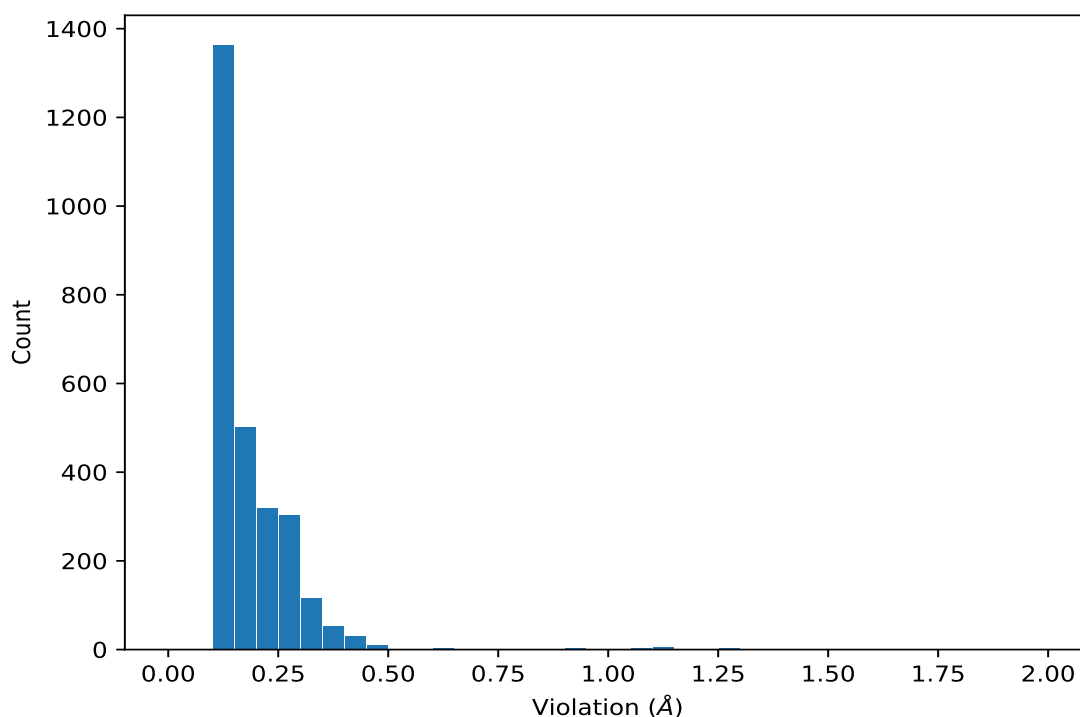
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,1587)	1:209:A:TYR:HD1	1:248:A:ALA:H	2	0.11	0.0	0.11
(3,1587)	1:209:A:TYR:HD2	1:248:A:ALA:H	2	0.11	0.0	0.11
(3,2002)	1:238:A:ALA:HB1	1:241:A:ARG:HD2	2	0.11	0.01	0.11
(3,2002)	1:238:A:ALA:HB1	1:241:A:ARG:HD3	2	0.11	0.01	0.11
(3,2002)	1:238:A:ALA:HB2	1:241:A:ARG:HD2	2	0.11	0.01	0.11
(3,2002)	1:238:A:ALA:HB2	1:241:A:ARG:HD3	2	0.11	0.01	0.11
(3,2002)	1:238:A:ALA:HB3	1:241:A:ARG:HD2	2	0.11	0.01	0.11
(3,2002)	1:238:A:ALA:HB3	1:241:A:ARG:HD3	2	0.11	0.01	0.11
(3,23)	1:112:A:ILE:HG12	1:126:A:PHE:HZ	2	0.11	0.0	0.11
(3,23)	1:112:A:ILE:HG13	1:126:A:PHE:HZ	2	0.11	0.0	0.11
(3,732)	1:160:A:TRP:H	1:163:A:ILE:HB	2	0.11	0.0	0.11
(3,873)	1:169:A:GLU:H	1:172:A:ARG:HB2	2	0.11	0.0	0.11
(3,873)	1:169:A:GLU:H	1:172:A:ARG:HB3	2	0.11	0.0	0.11
(3,1674)	1:217:A:GLU:H	1:245:A:LEU:HG	2	0.1	0.0	0.1

¹Number of violated models, ²Standard 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)
(3,2212)	2:506:B:3GL:HA	3:601:B:NO1:HB1C	1	1.99
(3,2215)	2:506:B:3GL:H2	3:601:B:NO1:HB1C	1	1.73
(3,2212)	2:506:B:3GL:HA	3:601:B:NO1:HB1C	6	1.45
(3,2212)	2:506:B:3GL:HA	3:601:B:NO1:HB1C	7	1.29
(3,739)	1:160:A:TRP:HH2	3:601:B:NO1:HB1C	6	1.28
(3,2215)	2:506:B:3GL:H2	3:601:B:NO1:HB1C	6	1.26
(3,2212)	2:506:B:3GL:HA	3:601:B:NO1:HB1C	8	1.23
(3,2212)	2:506:B:3GL:HA	3:601:B:NO1:HB1C	10	1.16
(3,2215)	2:506:B:3GL:H2	3:601:B:NO1:HB1C	4	1.15
(3,2215)	2:506:B:3GL:H2	3:601:B:NO1:HB1C	10	1.15
(3,2212)	2:506:B:3GL:HA	3:601:B:NO1:HB1C	4	1.15
(3,2221)	2:508:B:CYS:H	3:601:B:NO1:HB1C	1	1.14
(3,2212)	2:506:B:3GL:HA	3:601:B:NO1:HB1C	9	1.1
(3,739)	1:160:A:TRP:HH2	3:601:B:NO1:HB1C	7	1.1
(3,2215)	2:506:B:3GL:H2	3:601:B:NO1:HB1C	7	1.07
(3,2215)	2:506:B:3GL:H2	3:601:B:NO1:HB1C	9	1.07
(3,2215)	2:506:B:3GL:H2	3:601:B:NO1:HB1C	8	1.06
(3,739)	1:160:A:TRP:HH2	3:601:B:NO1:HB1C	5	0.98
(3,2221)	2:508:B:CYS:H	3:601:B:NO1:HB1C	4	0.94
(3,2221)	2:508:B:CYS:H	3:601:B:NO1:HB1C	10	0.94
(3,2221)	2:508:B:CYS:H	3:601:B:NO1:HB1C	9	0.91
(3,739)	1:160:A:TRP:HH2	3:601:B:NO1:HB1C	8	0.8
(3,2212)	2:506:B:3GL:HA	3:601:B:NO1:HB1C	3	0.63
(3,26)	1:112:A:ILE:HG12	1:152:A:THR:HA	6	0.61
(3,26)	1:112:A:ILE:HG13	1:152:A:THR:HA	6	0.61
(3,2212)	2:506:B:3GL:HA	3:601:B:NO1:HB1C	2	0.56
(3,2214)	2:506:B:3GL:HB2C	3:601:B:NO1:HB1C	6	0.55
(3,2213)	2:506:B:3GL:HB1C	3:601:B:NO1:HB1C	1	0.51
(3,739)	1:160:A:TRP:HH2	3:601:B:NO1:HB1C	2	0.5
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA2	8	0.48
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA3	8	0.48
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA2	8	0.48
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA3	8	0.48
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB2	9	0.47
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB3	9	0.47
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB2	9	0.47
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB3	9	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,26)	1:112:A:ILE:HG12	1:152:A:THR:HA	7	0.46
(3,26)	1:112:A:ILE:HG13	1:152:A:THR:HA	7	0.46
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB2	7	0.44
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB3	7	0.44
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB2	7	0.44
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB3	7	0.44
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA2	9	0.43
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA3	9	0.43
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA2	9	0.43
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA3	9	0.43
(3,2158)	1:250:A:ARG:HD2	1:250:A:ARG:HA	9	0.42
(3,2158)	1:250:A:ARG:HD3	1:250:A:ARG:HA	9	0.42
(3,1544)	1:202:A:ARG:HH11	1:204:A:HIS:H	3	0.42
(3,1544)	1:202:A:ARG:HH12	1:204:A:HIS:H	3	0.42
(3,739)	1:160:A:TRP:HH2	3:601:B:NO1:HB1C	3	0.42
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD1	8	0.42
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD2	8	0.42
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD1	8	0.42
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD2	8	0.42
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD1	4	0.41
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD2	4	0.41
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD1	4	0.41
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD2	4	0.41
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD1	10	0.41
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD2	10	0.41
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD1	10	0.41
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD2	10	0.41
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA2	7	0.4
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA3	7	0.4
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA2	7	0.4
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA3	7	0.4
(3,26)	1:112:A:ILE:HG12	1:152:A:THR:HA	1	0.4
(3,26)	1:112:A:ILE:HG13	1:152:A:THR:HA	1	0.4
(3,1939)	1:233:A:LYS:HG2	1:236:A:LEU:HA	5	0.39
(3,1939)	1:233:A:LYS:HG3	1:236:A:LEU:HA	5	0.39
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB2	3	0.39
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB3	3	0.39
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB2	3	0.39
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB3	3	0.39
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB2	8	0.39
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB3	8	0.39
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB2	8	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB3	8	0.39
(3,800)	1:164:A:GLN:HG2	1:166:A:GLU:H	9	0.39
(3,800)	1:164:A:GLN:HG3	1:166:A:GLU:H	9	0.39
(3,122)	1:117:A:GLU:HG2	1:121:A:GLU:HG2	9	0.39
(3,122)	1:117:A:GLU:HG2	1:121:A:GLU:HG3	9	0.39
(3,122)	1:117:A:GLU:HG3	1:121:A:GLU:HG2	9	0.39
(3,122)	1:117:A:GLU:HG3	1:121:A:GLU:HG3	9	0.39
(3,26)	1:112:A:ILE:HG12	1:152:A:THR:HA	3	0.39
(3,26)	1:112:A:ILE:HG13	1:152:A:THR:HA	3	0.39
(3,1939)	1:233:A:LYS:HG2	1:236:A:LEU:HA	2	0.38
(3,1939)	1:233:A:LYS:HG3	1:236:A:LEU:HA	2	0.38
(3,1774)	1:224:A:ARG:HG2	2:505:B:BB9:HB	7	0.38
(3,1774)	1:224:A:ARG:HG3	2:505:B:BB9:HB	7	0.38
(3,800)	1:164:A:GLN:HG2	1:166:A:GLU:H	3	0.38
(3,800)	1:164:A:GLN:HG3	1:166:A:GLU:H	3	0.38
(3,800)	1:164:A:GLN:HG2	1:166:A:GLU:H	7	0.38
(3,800)	1:164:A:GLN:HG3	1:166:A:GLU:H	7	0.38
(3,800)	1:164:A:GLN:HG2	1:166:A:GLU:H	8	0.38
(3,800)	1:164:A:GLN:HG3	1:166:A:GLU:H	8	0.38
(3,1939)	1:233:A:LYS:HG2	1:236:A:LEU:HA	1	0.37
(3,1939)	1:233:A:LYS:HG3	1:236:A:LEU:HA	1	0.37
(3,800)	1:164:A:GLN:HG2	1:166:A:GLU:H	5	0.37
(3,800)	1:164:A:GLN:HG3	1:166:A:GLU:H	5	0.37
(3,171)	1:120:A:PHE:HE1	1:124:A:GLY:HA2	9	0.37
(3,171)	1:120:A:PHE:HE1	1:124:A:GLY:HA3	9	0.37
(3,171)	1:120:A:PHE:HE2	1:124:A:GLY:HA2	9	0.37
(3,171)	1:120:A:PHE:HE2	1:124:A:GLY:HA3	9	0.37
(3,122)	1:117:A:GLU:HG2	1:121:A:GLU:HG2	7	0.37
(3,122)	1:117:A:GLU:HG2	1:121:A:GLU:HG3	7	0.37
(3,122)	1:117:A:GLU:HG3	1:121:A:GLU:HG2	7	0.37
(3,122)	1:117:A:GLU:HG3	1:121:A:GLU:HG3	7	0.37
(3,26)	1:112:A:ILE:HG12	1:152:A:THR:HA	5	0.37
(3,26)	1:112:A:ILE:HG13	1:152:A:THR:HA	5	0.37
(3,1593)	1:209:A:TYR:HB2	1:251:A:HIS:H	5	0.36
(3,1593)	1:209:A:TYR:HB3	1:251:A:HIS:H	5	0.36
(3,800)	1:164:A:GLN:HG2	1:166:A:GLU:H	1	0.36
(3,800)	1:164:A:GLN:HG3	1:166:A:GLU:H	1	0.36
(3,800)	1:164:A:GLN:HG2	1:166:A:GLU:H	2	0.36
(3,800)	1:164:A:GLN:HG3	1:166:A:GLU:H	2	0.36
(3,431)	1:138:A:ARG:HH11	1:225:A:PHE:HD1	5	0.36
(3,431)	1:138:A:ARG:HH11	1:225:A:PHE:HD2	5	0.36
(3,431)	1:138:A:ARG:HH12	1:225:A:PHE:HD1	5	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,431)	1:138:A:ARG:HH12	1:225:A:PHE:HD2	5	0.36
(3,26)	1:112:A:ILE:HG12	1:152:A:THR:HA	8	0.36
(3,26)	1:112:A:ILE:HG13	1:152:A:THR:HA	8	0.36
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB2	9	0.35
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB3	9	0.35
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG21	5	0.35
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG22	5	0.35
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG23	5	0.35
(3,26)	1:112:A:ILE:HG12	1:152:A:THR:HA	2	0.35
(3,26)	1:112:A:ILE:HG13	1:152:A:THR:HA	2	0.35
(3,2214)	2:506:B:3GL:HB2C	3:601:B:NO1:HB1C	8	0.34
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB2	1	0.34
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB3	1	0.34
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB2	1	0.34
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB3	1	0.34
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB2	1	0.34
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB3	1	0.34
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB2	2	0.34
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB3	2	0.34
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB2	4	0.34
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB3	4	0.34
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB2	8	0.34
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB3	8	0.34
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB2	10	0.34
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB3	10	0.34
(3,1544)	1:202:A:ARG:HH11	1:204:A:HIS:H	4	0.34
(3,1544)	1:202:A:ARG:HH12	1:204:A:HIS:H	4	0.34
(3,1544)	1:202:A:ARG:HH11	1:204:A:HIS:H	7	0.34
(3,1544)	1:202:A:ARG:HH12	1:204:A:HIS:H	7	0.34
(3,1544)	1:202:A:ARG:HH11	1:204:A:HIS:H	10	0.34
(3,1544)	1:202:A:ARG:HH12	1:204:A:HIS:H	10	0.34
(3,926)	1:170:A:LEU:HD11	1:240:A:MET:HA	9	0.34
(3,926)	1:170:A:LEU:HD12	1:240:A:MET:HA	9	0.34
(3,926)	1:170:A:LEU:HD13	1:240:A:MET:HA	9	0.34
(3,926)	1:170:A:LEU:HD21	1:240:A:MET:HA	9	0.34
(3,926)	1:170:A:LEU:HD22	1:240:A:MET:HA	9	0.34
(3,926)	1:170:A:LEU:HD23	1:240:A:MET:HA	9	0.34
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD11	6	0.33
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD12	6	0.33
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD13	6	0.33
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD21	6	0.33
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD22	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD23	6	0.33
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD11	6	0.33
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD12	6	0.33
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD13	6	0.33
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD21	6	0.33
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD22	6	0.33
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD23	6	0.33
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB2	1	0.33
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB3	1	0.33
(3,1415)	1:193:A:ALA:HB1	1:196:A:HIS:HD2	5	0.33
(3,1415)	1:193:A:ALA:HB2	1:196:A:HIS:HD2	5	0.33
(3,1415)	1:193:A:ALA:HB3	1:196:A:HIS:HD2	5	0.33
(3,1087)	1:175:A:VAL:HG21	1:179:A:ASP:HB3	6	0.33
(3,1087)	1:175:A:VAL:HG22	1:179:A:ASP:HB3	6	0.33
(3,1087)	1:175:A:VAL:HG23	1:179:A:ASP:HB3	6	0.33
(3,600)	1:151:A:LYS:HE2	1:152:A:THR:HA	4	0.33
(3,600)	1:151:A:LYS:HE3	1:152:A:THR:HA	4	0.33
(3,600)	1:151:A:LYS:HE2	1:152:A:THR:HA	10	0.33
(3,600)	1:151:A:LYS:HE3	1:152:A:THR:HA	10	0.33
(3,171)	1:120:A:PHE:HE1	1:124:A:GLY:HA2	7	0.33
(3,171)	1:120:A:PHE:HE1	1:124:A:GLY:HA3	7	0.33
(3,171)	1:120:A:PHE:HE2	1:124:A:GLY:HA2	7	0.33
(3,171)	1:120:A:PHE:HE2	1:124:A:GLY:HA3	7	0.33
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG21	6	0.32
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG22	6	0.32
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG23	6	0.32
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG21	6	0.32
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG22	6	0.32
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG23	6	0.32
(3,1074)	1:175:A:VAL:HG11	1:177:A:LEU:HG	3	0.32
(3,1074)	1:175:A:VAL:HG12	1:177:A:LEU:HG	3	0.32
(3,1074)	1:175:A:VAL:HG13	1:177:A:LEU:HG	3	0.32
(3,1074)	1:175:A:VAL:HG21	1:177:A:LEU:HG	3	0.32
(3,1074)	1:175:A:VAL:HG22	1:177:A:LEU:HG	3	0.32
(3,1074)	1:175:A:VAL:HG23	1:177:A:LEU:HG	3	0.32
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB2	7	0.32
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB3	7	0.32
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB2	7	0.32
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB3	7	0.32
(3,26)	1:112:A:ILE:HG12	1:152:A:THR:HA	4	0.32
(3,26)	1:112:A:ILE:HG13	1:152:A:THR:HA	4	0.32
(3,26)	1:112:A:ILE:HG12	1:152:A:THR:HA	10	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,26)	1:112:A:ILE:HG13	1:152:A:THR:HA	10	0.32
(3,2215)	2:506:B:3GL:H2	3:601:B:NO1:HB1C	3	0.31
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG21	3	0.31
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG22	3	0.31
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG23	3	0.31
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG21	3	0.31
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG22	3	0.31
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG23	3	0.31
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG21	8	0.31
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG22	8	0.31
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG23	8	0.31
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG21	8	0.31
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG22	8	0.31
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG23	8	0.31
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB2	6	0.31
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB3	6	0.31
(3,1461)	1:196:A:HIS:HD2	1:219:A:TYR:HE1	3	0.31
(3,1461)	1:196:A:HIS:HD2	1:219:A:TYR:HE2	3	0.31
(3,1461)	1:196:A:HIS:HD2	1:219:A:TYR:HE1	5	0.31
(3,1461)	1:196:A:HIS:HD2	1:219:A:TYR:HE2	5	0.31
(3,926)	1:170:A:LEU:HD11	1:240:A:MET:HA	6	0.31
(3,926)	1:170:A:LEU:HD12	1:240:A:MET:HA	6	0.31
(3,926)	1:170:A:LEU:HD13	1:240:A:MET:HA	6	0.31
(3,926)	1:170:A:LEU:HD21	1:240:A:MET:HA	6	0.31
(3,926)	1:170:A:LEU:HD22	1:240:A:MET:HA	6	0.31
(3,926)	1:170:A:LEU:HD23	1:240:A:MET:HA	6	0.31
(3,920)	1:170:A:LEU:HB2	1:196:A:HIS:HD2	3	0.31
(3,920)	1:170:A:LEU:HB3	1:196:A:HIS:HD2	3	0.31
(3,548)	1:147:A:GLN:HG2	1:206:A:ASP:HB2	6	0.31
(3,548)	1:147:A:GLN:HG2	1:206:A:ASP:HB3	6	0.31
(3,548)	1:147:A:GLN:HG3	1:206:A:ASP:HB2	6	0.31
(3,548)	1:147:A:GLN:HG3	1:206:A:ASP:HB3	6	0.31
(3,26)	1:112:A:ILE:HG12	1:152:A:THR:HA	9	0.31
(3,26)	1:112:A:ILE:HG13	1:152:A:THR:HA	9	0.31
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB2	3	0.3
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB3	3	0.3
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB2	7	0.3
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB3	7	0.3
(3,1695)	1:219:A:TYR:HE1	1:226:A:THR:HA	7	0.3
(3,1695)	1:219:A:TYR:HE2	1:226:A:THR:HA	7	0.3
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG21	7	0.3
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG22	7	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG23	7	0.3
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG21	8	0.3
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG22	8	0.3
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG23	8	0.3
(3,1593)	1:209:A:TYR:HB2	1:251:A:HIS:H	4	0.3
(3,1593)	1:209:A:TYR:HB3	1:251:A:HIS:H	4	0.3
(3,1593)	1:209:A:TYR:HB2	1:251:A:HIS:H	10	0.3
(3,1593)	1:209:A:TYR:HB3	1:251:A:HIS:H	10	0.3
(3,926)	1:170:A:LEU:HD11	1:240:A:MET:HA	7	0.3
(3,926)	1:170:A:LEU:HD12	1:240:A:MET:HA	7	0.3
(3,926)	1:170:A:LEU:HD13	1:240:A:MET:HA	7	0.3
(3,926)	1:170:A:LEU:HD21	1:240:A:MET:HA	7	0.3
(3,926)	1:170:A:LEU:HD22	1:240:A:MET:HA	7	0.3
(3,926)	1:170:A:LEU:HD23	1:240:A:MET:HA	7	0.3
(3,50)	1:114:A:LEU:HB2	1:115:A:THR:HG21	3	0.3
(3,50)	1:114:A:LEU:HB2	1:115:A:THR:HG22	3	0.3
(3,50)	1:114:A:LEU:HB2	1:115:A:THR:HG23	3	0.3
(3,50)	1:114:A:LEU:HB3	1:115:A:THR:HG21	3	0.3
(3,50)	1:114:A:LEU:HB3	1:115:A:THR:HG22	3	0.3
(3,50)	1:114:A:LEU:HB3	1:115:A:THR:HG23	3	0.3
(4,2)	1:175:A:VAL:HG21	1:233:A:LYS:HE2	1	0.29
(4,2)	1:175:A:VAL:HG22	1:233:A:LYS:HE2	1	0.29
(4,2)	1:175:A:VAL:HG23	1:233:A:LYS:HE2	1	0.29
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB2	5	0.29
(3,2015)	1:239:A:TYR:HA	1:240:A:MET:HB3	5	0.29
(3,1695)	1:219:A:TYR:HE1	1:226:A:THR:HA	5	0.29
(3,1695)	1:219:A:TYR:HE2	1:226:A:THR:HA	5	0.29
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE1	5	0.29
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE2	5	0.29
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE3	5	0.29
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE1	5	0.29
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE2	5	0.29
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE3	5	0.29
(3,1593)	1:209:A:TYR:HB2	1:251:A:HIS:H	3	0.29
(3,1593)	1:209:A:TYR:HB3	1:251:A:HIS:H	3	0.29
(3,1593)	1:209:A:TYR:HB2	1:251:A:HIS:H	8	0.29
(3,1593)	1:209:A:TYR:HB3	1:251:A:HIS:H	8	0.29
(3,1544)	1:202:A:ARG:HH11	1:204:A:HIS:H	1	0.29
(3,1544)	1:202:A:ARG:HH12	1:204:A:HIS:H	1	0.29
(3,1415)	1:193:A:ALA:HB1	1:196:A:HIS:HD2	4	0.29
(3,1415)	1:193:A:ALA:HB2	1:196:A:HIS:HD2	4	0.29
(3,1415)	1:193:A:ALA:HB3	1:196:A:HIS:HD2	4	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1415)	1:193:A:ALA:HB1	1:196:A:HIS:HD2	10	0.29
(3,1415)	1:193:A:ALA:HB2	1:196:A:HIS:HD2	10	0.29
(3,1415)	1:193:A:ALA:HB3	1:196:A:HIS:HD2	10	0.29
(3,1087)	1:175:A:VAL:HG21	1:179:A:ASP:HB3	9	0.29
(3,1087)	1:175:A:VAL:HG22	1:179:A:ASP:HB3	9	0.29
(3,1087)	1:175:A:VAL:HG23	1:179:A:ASP:HB3	9	0.29
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB2	9	0.29
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB3	9	0.29
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB2	9	0.29
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB3	9	0.29
(4,2)	1:175:A:VAL:HG21	1:233:A:LYS:HE2	7	0.28
(4,2)	1:175:A:VAL:HG22	1:233:A:LYS:HE2	7	0.28
(4,2)	1:175:A:VAL:HG23	1:233:A:LYS:HE2	7	0.28
(3,1849)	1:228:A:ASN:HB2	2:505:B:BB9:HB	8	0.28
(3,1774)	1:224:A:ARG:HG2	2:505:B:BB9:HB	6	0.28
(3,1774)	1:224:A:ARG:HG3	2:505:B:BB9:HB	6	0.28
(3,1074)	1:175:A:VAL:HG11	1:177:A:LEU:HG	2	0.28
(3,1074)	1:175:A:VAL:HG12	1:177:A:LEU:HG	2	0.28
(3,1074)	1:175:A:VAL:HG13	1:177:A:LEU:HG	2	0.28
(3,1074)	1:175:A:VAL:HG21	1:177:A:LEU:HG	2	0.28
(3,1074)	1:175:A:VAL:HG22	1:177:A:LEU:HG	2	0.28
(3,1074)	1:175:A:VAL:HG23	1:177:A:LEU:HG	2	0.28
(3,800)	1:164:A:GLN:HG2	1:166:A:GLU:H	6	0.28
(3,800)	1:164:A:GLN:HG3	1:166:A:GLU:H	6	0.28
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB2	2	0.28
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB3	2	0.28
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB2	2	0.28
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB3	2	0.28
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB2	3	0.28
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB3	3	0.28
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB2	3	0.28
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB3	3	0.28
(3,548)	1:147:A:GLN:HG2	1:206:A:ASP:HB2	7	0.28
(3,548)	1:147:A:GLN:HG2	1:206:A:ASP:HB3	7	0.28
(3,548)	1:147:A:GLN:HG3	1:206:A:ASP:HB2	7	0.28
(3,548)	1:147:A:GLN:HG3	1:206:A:ASP:HB3	7	0.28
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD1	1	0.28
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD2	1	0.28
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD1	1	0.28
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD2	1	0.28
(3,2214)	2:506:B:3GL:HB2C	3:601:B:NO1:HB1C	1	0.27
(3,1625)	1:213:A:THR:HG21	1:245:A:LEU:HB2	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1625)	1:213:A:THR:HG21	1:245:A:LEU:HB3	7	0.27
(3,1625)	1:213:A:THR:HG22	1:245:A:LEU:HB2	7	0.27
(3,1625)	1:213:A:THR:HG22	1:245:A:LEU:HB3	7	0.27
(3,1625)	1:213:A:THR:HG23	1:245:A:LEU:HB2	7	0.27
(3,1625)	1:213:A:THR:HG23	1:245:A:LEU:HB3	7	0.27
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG21	9	0.27
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG22	9	0.27
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG23	9	0.27
(3,1593)	1:209:A:TYR:HB2	1:251:A:HIS:H	6	0.27
(3,1593)	1:209:A:TYR:HB3	1:251:A:HIS:H	6	0.27
(3,1593)	1:209:A:TYR:HB2	1:251:A:HIS:H	9	0.27
(3,1593)	1:209:A:TYR:HB3	1:251:A:HIS:H	9	0.27
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG2	3	0.27
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG3	3	0.27
(3,1074)	1:175:A:VAL:HG11	1:177:A:LEU:HG	1	0.27
(3,1074)	1:175:A:VAL:HG12	1:177:A:LEU:HG	1	0.27
(3,1074)	1:175:A:VAL:HG13	1:177:A:LEU:HG	1	0.27
(3,1074)	1:175:A:VAL:HG21	1:177:A:LEU:HG	1	0.27
(3,1074)	1:175:A:VAL:HG22	1:177:A:LEU:HG	1	0.27
(3,1074)	1:175:A:VAL:HG23	1:177:A:LEU:HG	1	0.27
(3,926)	1:170:A:LEU:HD11	1:240:A:MET:HA	8	0.27
(3,926)	1:170:A:LEU:HD12	1:240:A:MET:HA	8	0.27
(3,926)	1:170:A:LEU:HD13	1:240:A:MET:HA	8	0.27
(3,926)	1:170:A:LEU:HD21	1:240:A:MET:HA	8	0.27
(3,926)	1:170:A:LEU:HD22	1:240:A:MET:HA	8	0.27
(3,926)	1:170:A:LEU:HD23	1:240:A:MET:HA	8	0.27
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG21	4	0.27
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG22	4	0.27
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG23	4	0.27
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG21	4	0.27
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG22	4	0.27
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG23	4	0.27
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG21	4	0.27
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG22	4	0.27
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG23	4	0.27
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG21	4	0.27
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG22	4	0.27
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG23	4	0.27
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG21	4	0.27
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG22	4	0.27
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG23	4	0.27
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG21	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG22	4	0.27
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG23	4	0.27
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG21	10	0.27
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG22	10	0.27
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG23	10	0.27
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG21	10	0.27
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG22	10	0.27
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG23	10	0.27
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG21	10	0.27
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG22	10	0.27
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG23	10	0.27
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG21	10	0.27
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG22	10	0.27
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG23	10	0.27
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG21	10	0.27
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG22	10	0.27
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG23	10	0.27
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG21	10	0.27
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG22	10	0.27
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG23	10	0.27
(3,920)	1:170:A:LEU:HB2	1:196:A:HIS:HD2	5	0.27
(3,920)	1:170:A:LEU:HB3	1:196:A:HIS:HD2	5	0.27
(3,800)	1:164:A:GLN:HG2	1:166:A:GLU:H	4	0.27
(3,800)	1:164:A:GLN:HG3	1:166:A:GLU:H	4	0.27
(3,800)	1:164:A:GLN:HG2	1:166:A:GLU:H	10	0.27
(3,800)	1:164:A:GLN:HG3	1:166:A:GLU:H	10	0.27
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB2	8	0.27
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB3	8	0.27
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB2	8	0.27
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB3	8	0.27
(3,513)	1:145:A:TYR:HD1	1:149:A:LYS:HG2	3	0.27
(3,513)	1:145:A:TYR:HD1	1:149:A:LYS:HG3	3	0.27
(3,513)	1:145:A:TYR:HD2	1:149:A:LYS:HG2	3	0.27
(3,513)	1:145:A:TYR:HD2	1:149:A:LYS:HG3	3	0.27
(3,141)	1:119:A:LYS:HD2	1:120:A:PHE:HD1	6	0.27
(3,141)	1:119:A:LYS:HD2	1:120:A:PHE:HD2	6	0.27
(3,141)	1:119:A:LYS:HD3	1:120:A:PHE:HD1	6	0.27
(3,141)	1:119:A:LYS:HD3	1:120:A:PHE:HD2	6	0.27
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB2	4	0.26
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB3	4	0.26
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB2	4	0.26
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB3	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB2	4	0.26
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB3	4	0.26
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD11	5	0.26
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD12	5	0.26
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD13	5	0.26
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD21	5	0.26
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD22	5	0.26
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD23	5	0.26
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD11	5	0.26
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD12	5	0.26
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD13	5	0.26
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD21	5	0.26
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD22	5	0.26
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD23	5	0.26
(3,1633)	1:213:A:THR:HG21	1:248:A:ALA:H	6	0.26
(3,1633)	1:213:A:THR:HG22	1:248:A:ALA:H	6	0.26
(3,1633)	1:213:A:THR:HG23	1:248:A:ALA:H	6	0.26
(3,1516)	1:200:A:ILE:HG12	2:507:B:BB9:HB	6	0.26
(3,1516)	1:200:A:ILE:HG13	2:507:B:BB9:HB	6	0.26
(3,1447)	1:195:A:ASP:HB2	1:198:A:GLN:HB2	9	0.26
(3,1447)	1:195:A:ASP:HB2	1:198:A:GLN:HB3	9	0.26
(3,1447)	1:195:A:ASP:HB3	1:198:A:GLN:HB2	9	0.26
(3,1447)	1:195:A:ASP:HB3	1:198:A:GLN:HB3	9	0.26
(3,1415)	1:193:A:ALA:HB1	1:196:A:HIS:HD2	8	0.26
(3,1415)	1:193:A:ALA:HB2	1:196:A:HIS:HD2	8	0.26
(3,1415)	1:193:A:ALA:HB3	1:196:A:HIS:HD2	8	0.26
(3,639)	1:155:A:TYR:HA	1:156:A:THR:HG21	7	0.26
(3,639)	1:155:A:TYR:HA	1:156:A:THR:HG22	7	0.26
(3,639)	1:155:A:TYR:HA	1:156:A:THR:HG23	7	0.26
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB2	6	0.26
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB3	6	0.26
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB2	6	0.26
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB3	6	0.26
(3,548)	1:147:A:GLN:HG2	1:206:A:ASP:HB2	9	0.26
(3,548)	1:147:A:GLN:HG2	1:206:A:ASP:HB3	9	0.26
(3,548)	1:147:A:GLN:HG3	1:206:A:ASP:HB2	9	0.26
(3,548)	1:147:A:GLN:HG3	1:206:A:ASP:HB3	9	0.26
(3,122)	1:117:A:GLU:HG2	1:121:A:GLU:HG2	6	0.26
(3,122)	1:117:A:GLU:HG2	1:121:A:GLU:HG3	6	0.26
(3,122)	1:117:A:GLU:HG3	1:121:A:GLU:HG2	6	0.26
(3,122)	1:117:A:GLU:HG3	1:121:A:GLU:HG3	6	0.26
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD1	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD2	6	0.26
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD1	6	0.26
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD2	6	0.26
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB2	10	0.25
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB3	10	0.25
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB2	10	0.25
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB3	10	0.25
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB2	10	0.25
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB3	10	0.25
(3,2141)	1:249:A:VAL:HG21	1:250:A:ARG:H	3	0.25
(3,2141)	1:249:A:VAL:HG22	1:250:A:ARG:H	3	0.25
(3,2141)	1:249:A:VAL:HG23	1:250:A:ARG:H	3	0.25
(3,1658)	1:215:A:LEU:HG	2:508:B:CYS:HB3	6	0.25
(3,1544)	1:202:A:ARG:HH11	1:204:A:HIS:H	5	0.25
(3,1544)	1:202:A:ARG:HH12	1:204:A:HIS:H	5	0.25
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD1	9	0.25
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD2	9	0.25
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD1	9	0.25
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD2	9	0.25
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD1	9	0.25
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD2	9	0.25
(3,1415)	1:193:A:ALA:HB1	1:196:A:HIS:HD2	6	0.25
(3,1415)	1:193:A:ALA:HB2	1:196:A:HIS:HD2	6	0.25
(3,1415)	1:193:A:ALA:HB3	1:196:A:HIS:HD2	6	0.25
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB1	5	0.25
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB2	5	0.25
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB3	5	0.25
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB1	5	0.25
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB2	5	0.25
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB3	5	0.25
(3,1074)	1:175:A:VAL:HG11	1:177:A:LEU:HG	7	0.25
(3,1074)	1:175:A:VAL:HG12	1:177:A:LEU:HG	7	0.25
(3,1074)	1:175:A:VAL:HG13	1:177:A:LEU:HG	7	0.25
(3,1074)	1:175:A:VAL:HG21	1:177:A:LEU:HG	7	0.25
(3,1074)	1:175:A:VAL:HG22	1:177:A:LEU:HG	7	0.25
(3,1074)	1:175:A:VAL:HG23	1:177:A:LEU:HG	7	0.25
(3,926)	1:170:A:LEU:HD11	1:240:A:MET:HA	1	0.25
(3,926)	1:170:A:LEU:HD12	1:240:A:MET:HA	1	0.25
(3,926)	1:170:A:LEU:HD13	1:240:A:MET:HA	1	0.25
(3,926)	1:170:A:LEU:HD21	1:240:A:MET:HA	1	0.25
(3,926)	1:170:A:LEU:HD22	1:240:A:MET:HA	1	0.25
(3,926)	1:170:A:LEU:HD23	1:240:A:MET:HA	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,926)	1:170:A:LEU:HD11	1:240:A:MET:HA	2	0.25
(3,926)	1:170:A:LEU:HD12	1:240:A:MET:HA	2	0.25
(3,926)	1:170:A:LEU:HD13	1:240:A:MET:HA	2	0.25
(3,926)	1:170:A:LEU:HD21	1:240:A:MET:HA	2	0.25
(3,926)	1:170:A:LEU:HD22	1:240:A:MET:HA	2	0.25
(3,926)	1:170:A:LEU:HD23	1:240:A:MET:HA	2	0.25
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG21	5	0.25
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG22	5	0.25
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG23	5	0.25
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG21	5	0.25
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG22	5	0.25
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG23	5	0.25
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG21	5	0.25
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG22	5	0.25
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG23	5	0.25
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG21	5	0.25
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG22	5	0.25
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG23	5	0.25
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG21	5	0.25
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG22	5	0.25
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG23	5	0.25
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG21	5	0.25
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG22	5	0.25
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG23	5	0.25
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB2	1	0.25
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB3	1	0.25
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB2	1	0.25
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB3	1	0.25
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB2	5	0.25
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB3	5	0.25
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB2	5	0.25
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB3	5	0.25
(3,451)	1:139:A:TRP:HZ3	2:504:B:DBU:HB	3	0.25
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA2	1	0.25
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA3	1	0.25
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA2	1	0.25
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA3	1	0.25
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD2	1	0.25
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD3	1	0.25
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD2	1	0.25
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD3	1	0.25
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD2	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD3	1	0.25
(3,2215)	2:506:B:3GL:H2	3:601:B:NO1:HB1C	2	0.24
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG21	7	0.24
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG22	7	0.24
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG23	7	0.24
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG21	7	0.24
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG22	7	0.24
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG23	7	0.24
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD11	7	0.24
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD12	7	0.24
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD13	7	0.24
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD21	7	0.24
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD22	7	0.24
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD23	7	0.24
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD11	7	0.24
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD12	7	0.24
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD13	7	0.24
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD21	7	0.24
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD22	7	0.24
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD23	7	0.24
(3,1418)	1:193:A:ALA:HA	1:212:A:HIS:HE1	1	0.24
(3,1418)	1:193:A:ALA:HA	1:212:A:HIS:HE1	2	0.24
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG2	1	0.24
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG3	1	0.24
(3,1146)	1:177:A:LEU:HG	1:180:A:ALA:H	5	0.24
(3,1074)	1:175:A:VAL:HG11	1:177:A:LEU:HG	5	0.24
(3,1074)	1:175:A:VAL:HG12	1:177:A:LEU:HG	5	0.24
(3,1074)	1:175:A:VAL:HG13	1:177:A:LEU:HG	5	0.24
(3,1074)	1:175:A:VAL:HG21	1:177:A:LEU:HG	5	0.24
(3,1074)	1:175:A:VAL:HG22	1:177:A:LEU:HG	5	0.24
(3,1074)	1:175:A:VAL:HG23	1:177:A:LEU:HG	5	0.24
(3,1074)	1:175:A:VAL:HG11	1:177:A:LEU:HG	9	0.24
(3,1074)	1:175:A:VAL:HG12	1:177:A:LEU:HG	9	0.24
(3,1074)	1:175:A:VAL:HG13	1:177:A:LEU:HG	9	0.24
(3,1074)	1:175:A:VAL:HG21	1:177:A:LEU:HG	9	0.24
(3,1074)	1:175:A:VAL:HG22	1:177:A:LEU:HG	9	0.24
(3,1074)	1:175:A:VAL:HG23	1:177:A:LEU:HG	9	0.24
(3,598)	1:151:A:LYS:HD2	1:152:A:THR:HA	3	0.24
(3,598)	1:151:A:LYS:HD3	1:152:A:THR:HA	3	0.24
(3,598)	1:151:A:LYS:HD2	1:152:A:THR:HA	9	0.24
(3,598)	1:151:A:LYS:HD3	1:152:A:THR:HA	9	0.24
(3,451)	1:139:A:TRP:HZ3	2:504:B:DBU:HB	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,431)	1:138:A:ARG:HH11	1:225:A:PHE:HD1	2	0.24
(3,431)	1:138:A:ARG:HH11	1:225:A:PHE:HD2	2	0.24
(3,431)	1:138:A:ARG:HH12	1:225:A:PHE:HD1	2	0.24
(3,431)	1:138:A:ARG:HH12	1:225:A:PHE:HD2	2	0.24
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD1	7	0.24
(3,431)	1:138:A:ARG:HH21	1:225:A:PHE:HD2	7	0.24
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD1	7	0.24
(3,431)	1:138:A:ARG:HH22	1:225:A:PHE:HD2	7	0.24
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA2	4	0.24
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA3	4	0.24
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA2	4	0.24
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA3	4	0.24
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA2	10	0.24
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA3	10	0.24
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA2	10	0.24
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA3	10	0.24
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG21	4	0.23
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG22	4	0.23
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG23	4	0.23
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG21	4	0.23
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG22	4	0.23
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG23	4	0.23
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG21	10	0.23
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG22	10	0.23
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG23	10	0.23
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG21	10	0.23
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG22	10	0.23
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG23	10	0.23
(3,2141)	1:249:A:VAL:HG21	1:250:A:ARG:H	4	0.23
(3,2141)	1:249:A:VAL:HG22	1:250:A:ARG:H	4	0.23
(3,2141)	1:249:A:VAL:HG23	1:250:A:ARG:H	4	0.23
(3,2141)	1:249:A:VAL:HG21	1:250:A:ARG:H	10	0.23
(3,2141)	1:249:A:VAL:HG22	1:250:A:ARG:H	10	0.23
(3,2141)	1:249:A:VAL:HG23	1:250:A:ARG:H	10	0.23
(3,2100)	1:246:A:ALA:HA	1:249:A:VAL:HA	3	0.23
(3,2100)	1:246:A:ALA:HA	1:249:A:VAL:HA	5	0.23
(3,2100)	1:246:A:ALA:HA	1:249:A:VAL:HA	8	0.23
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD11	2	0.23
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD12	2	0.23
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD13	2	0.23
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD21	2	0.23
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD22	2	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD23	2	0.23
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD11	2	0.23
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD12	2	0.23
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD13	2	0.23
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD21	2	0.23
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD22	2	0.23
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD23	2	0.23
(3,1681)	1:218:A:MET:HA	1:221:A:SER:HA	3	0.23
(3,1633)	1:213:A:THR:HG21	1:248:A:ALA:H	1	0.23
(3,1633)	1:213:A:THR:HG22	1:248:A:ALA:H	1	0.23
(3,1633)	1:213:A:THR:HG23	1:248:A:ALA:H	1	0.23
(3,1544)	1:202:A:ARG:HH11	1:204:A:HIS:H	6	0.23
(3,1544)	1:202:A:ARG:HH12	1:204:A:HIS:H	6	0.23
(3,1516)	1:200:A:ILE:HG12	2:507:B:BB9:HB	8	0.23
(3,1516)	1:200:A:ILE:HG13	2:507:B:BB9:HB	8	0.23
(3,1415)	1:193:A:ALA:HB1	1:196:A:HIS:HD2	3	0.23
(3,1415)	1:193:A:ALA:HB2	1:196:A:HIS:HD2	3	0.23
(3,1415)	1:193:A:ALA:HB3	1:196:A:HIS:HD2	3	0.23
(3,1415)	1:193:A:ALA:HB1	1:196:A:HIS:HD2	9	0.23
(3,1415)	1:193:A:ALA:HB2	1:196:A:HIS:HD2	9	0.23
(3,1415)	1:193:A:ALA:HB3	1:196:A:HIS:HD2	9	0.23
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB1	2	0.23
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB2	2	0.23
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB3	2	0.23
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB1	2	0.23
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB2	2	0.23
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB3	2	0.23
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB1	3	0.23
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB2	3	0.23
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB3	3	0.23
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB1	3	0.23
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB2	3	0.23
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB3	3	0.23
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG2	9	0.23
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG3	9	0.23
(3,607)	1:151:A:LYS:HE2	1:202:A:ARG:HA	3	0.23
(3,607)	1:151:A:LYS:HE3	1:202:A:ARG:HA	3	0.23
(3,598)	1:151:A:LYS:HD2	1:152:A:THR:HA	7	0.23
(3,598)	1:151:A:LYS:HD3	1:152:A:THR:HA	7	0.23
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB2	4	0.23
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB3	4	0.23
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB2	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB3	4	0.23
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB2	10	0.23
(3,555)	1:148:A:SER:HB2	1:150:A:GLU:HB3	10	0.23
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB2	10	0.23
(3,555)	1:148:A:SER:HB3	1:150:A:GLU:HB3	10	0.23
(3,431)	1:138:A:ARG:HH11	1:225:A:PHE:HD1	9	0.23
(3,431)	1:138:A:ARG:HH11	1:225:A:PHE:HD2	9	0.23
(3,431)	1:138:A:ARG:HH12	1:225:A:PHE:HD1	9	0.23
(3,431)	1:138:A:ARG:HH12	1:225:A:PHE:HD2	9	0.23
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD2	2	0.23
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD3	2	0.23
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD2	2	0.23
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD3	2	0.23
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD2	2	0.23
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD3	2	0.23
(3,1925)	1:233:A:LYS:HD2	1:233:A:LYS:HA	1	0.22
(3,1925)	1:233:A:LYS:HD3	1:233:A:LYS:HA	1	0.22
(3,1925)	1:233:A:LYS:HD2	1:233:A:LYS:HA	2	0.22
(3,1925)	1:233:A:LYS:HD3	1:233:A:LYS:HA	2	0.22
(3,1681)	1:218:A:MET:HA	1:221:A:SER:HA	7	0.22
(3,1633)	1:213:A:THR:HG21	1:248:A:ALA:H	2	0.22
(3,1633)	1:213:A:THR:HG22	1:248:A:ALA:H	2	0.22
(3,1633)	1:213:A:THR:HG23	1:248:A:ALA:H	2	0.22
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG21	4	0.22
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG22	4	0.22
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG23	4	0.22
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG21	6	0.22
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG22	6	0.22
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG23	6	0.22
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG21	10	0.22
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG22	10	0.22
(3,1613)	1:212:A:HIS:HE1	1:244:A:ILE:HG23	10	0.22
(3,1563)	1:205:A:TYR:HD1	2:508:B:CYS:HB3	2	0.22
(3,1563)	1:205:A:TYR:HD2	2:508:B:CYS:HB3	2	0.22
(3,1469)	1:197:A:ARG:HG2	1:209:A:TYR:HD1	9	0.22
(3,1469)	1:197:A:ARG:HG2	1:209:A:TYR:HD2	9	0.22
(3,1469)	1:197:A:ARG:HG3	1:209:A:TYR:HD1	9	0.22
(3,1469)	1:197:A:ARG:HG3	1:209:A:TYR:HD2	9	0.22
(3,1415)	1:193:A:ALA:HB1	1:196:A:HIS:HD2	1	0.22
(3,1415)	1:193:A:ALA:HB2	1:196:A:HIS:HD2	1	0.22
(3,1415)	1:193:A:ALA:HB3	1:196:A:HIS:HD2	1	0.22
(3,1415)	1:193:A:ALA:HB1	1:196:A:HIS:HD2	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1415)	1:193:A:ALA:HB2	1:196:A:HIS:HD2	7	0.22
(3,1415)	1:193:A:ALA:HB3	1:196:A:HIS:HD2	7	0.22
(3,1074)	1:175:A:VAL:HG11	1:177:A:LEU:HG	8	0.22
(3,1074)	1:175:A:VAL:HG12	1:177:A:LEU:HG	8	0.22
(3,1074)	1:175:A:VAL:HG13	1:177:A:LEU:HG	8	0.22
(3,1074)	1:175:A:VAL:HG21	1:177:A:LEU:HG	8	0.22
(3,1074)	1:175:A:VAL:HG22	1:177:A:LEU:HG	8	0.22
(3,1074)	1:175:A:VAL:HG23	1:177:A:LEU:HG	8	0.22
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB1	7	0.22
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB2	7	0.22
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB3	7	0.22
(3,598)	1:151:A:LYS:HD2	1:152:A:THR:HA	8	0.22
(3,598)	1:151:A:LYS:HD3	1:152:A:THR:HA	8	0.22
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB2	8	0.22
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB3	8	0.22
(3,430)	1:138:A:ARG:HG2	1:139:A:TRP:HZ2	6	0.22
(3,430)	1:138:A:ARG:HG3	1:139:A:TRP:HZ2	6	0.22
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA2	5	0.22
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA3	5	0.22
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA2	5	0.22
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA3	5	0.22
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB2	9	0.22
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB3	9	0.22
(3,2143)	1:249:A:VAL:HG21	1:250:A:ARG:HD2	9	0.21
(3,2143)	1:249:A:VAL:HG21	1:250:A:ARG:HD3	9	0.21
(3,2143)	1:249:A:VAL:HG22	1:250:A:ARG:HD2	9	0.21
(3,2143)	1:249:A:VAL:HG22	1:250:A:ARG:HD3	9	0.21
(3,2143)	1:249:A:VAL:HG23	1:250:A:ARG:HD2	9	0.21
(3,2143)	1:249:A:VAL:HG23	1:250:A:ARG:HD3	9	0.21
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB2	3	0.21
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB3	3	0.21
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB2	3	0.21
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB3	3	0.21
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB2	3	0.21
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB3	3	0.21
(3,2100)	1:246:A:ALA:HA	1:249:A:VAL:HA	6	0.21
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD11	8	0.21
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD12	8	0.21
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD13	8	0.21
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD21	8	0.21
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD22	8	0.21
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD23	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD11	8	0.21
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD12	8	0.21
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD13	8	0.21
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD21	8	0.21
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD22	8	0.21
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD23	8	0.21
(3,1774)	1:224:A:ARG:HG2	2:505:B:BB9:HB	8	0.21
(3,1774)	1:224:A:ARG:HG3	2:505:B:BB9:HB	8	0.21
(3,1683)	1:218:A:MET:HB2	2:509:B:BB9:HB	3	0.21
(3,1683)	1:218:A:MET:HB3	2:509:B:BB9:HB	3	0.21
(3,1681)	1:218:A:MET:HA	1:221:A:SER:HA	5	0.21
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD1	1	0.21
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD2	1	0.21
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD1	1	0.21
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD2	1	0.21
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD1	1	0.21
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD2	1	0.21
(3,1415)	1:193:A:ALA:HB1	1:196:A:HIS:HD2	2	0.21
(3,1415)	1:193:A:ALA:HB2	1:196:A:HIS:HD2	2	0.21
(3,1415)	1:193:A:ALA:HB3	1:196:A:HIS:HD2	2	0.21
(3,1333)	1:187:A:GLU:HG2	1:190:A:MET:HB2	4	0.21
(3,1333)	1:187:A:GLU:HG2	1:190:A:MET:HB3	4	0.21
(3,1333)	1:187:A:GLU:HG3	1:190:A:MET:HB2	4	0.21
(3,1333)	1:187:A:GLU:HG3	1:190:A:MET:HB3	4	0.21
(3,1333)	1:187:A:GLU:HG2	1:190:A:MET:HB2	10	0.21
(3,1333)	1:187:A:GLU:HG2	1:190:A:MET:HB3	10	0.21
(3,1333)	1:187:A:GLU:HG3	1:190:A:MET:HB2	10	0.21
(3,1333)	1:187:A:GLU:HG3	1:190:A:MET:HB3	10	0.21
(3,1221)	1:179:A:ASP:H	1:182:A:GLU:H	4	0.21
(3,1221)	1:179:A:ASP:H	1:182:A:GLU:H	7	0.21
(3,1221)	1:179:A:ASP:H	1:182:A:GLU:H	10	0.21
(3,1146)	1:177:A:LEU:HG	1:180:A:ALA:H	3	0.21
(3,1146)	1:177:A:LEU:HG	1:180:A:ALA:H	4	0.21
(3,1146)	1:177:A:LEU:HG	1:180:A:ALA:H	10	0.21
(3,1074)	1:175:A:VAL:HG11	1:177:A:LEU:HG	6	0.21
(3,1074)	1:175:A:VAL:HG12	1:177:A:LEU:HG	6	0.21
(3,1074)	1:175:A:VAL:HG13	1:177:A:LEU:HG	6	0.21
(3,1074)	1:175:A:VAL:HG21	1:177:A:LEU:HG	6	0.21
(3,1074)	1:175:A:VAL:HG22	1:177:A:LEU:HG	6	0.21
(3,1074)	1:175:A:VAL:HG23	1:177:A:LEU:HG	6	0.21
(3,926)	1:170:A:LEU:HD11	1:240:A:MET:HA	4	0.21
(3,926)	1:170:A:LEU:HD12	1:240:A:MET:HA	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,926)	1:170:A:LEU:HD13	1:240:A:MET:HA	4	0.21
(3,926)	1:170:A:LEU:HD21	1:240:A:MET:HA	4	0.21
(3,926)	1:170:A:LEU:HD22	1:240:A:MET:HA	4	0.21
(3,926)	1:170:A:LEU:HD23	1:240:A:MET:HA	4	0.21
(3,926)	1:170:A:LEU:HD11	1:240:A:MET:HA	10	0.21
(3,926)	1:170:A:LEU:HD12	1:240:A:MET:HA	10	0.21
(3,926)	1:170:A:LEU:HD13	1:240:A:MET:HA	10	0.21
(3,926)	1:170:A:LEU:HD21	1:240:A:MET:HA	10	0.21
(3,926)	1:170:A:LEU:HD22	1:240:A:MET:HA	10	0.21
(3,926)	1:170:A:LEU:HD23	1:240:A:MET:HA	10	0.21
(3,287)	1:128:A:PRO:HA	1:132:A:GLU:HA	4	0.21
(3,287)	1:128:A:PRO:HA	1:132:A:GLU:HA	10	0.21
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA2	2	0.21
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA3	2	0.21
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA2	2	0.21
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA3	2	0.21
(3,171)	1:120:A:PHE:HE1	1:124:A:GLY:HA2	1	0.21
(3,171)	1:120:A:PHE:HE1	1:124:A:GLY:HA3	1	0.21
(3,171)	1:120:A:PHE:HE2	1:124:A:GLY:HA2	1	0.21
(3,171)	1:120:A:PHE:HE2	1:124:A:GLY:HA3	1	0.21
(2,20)	1:132:A:GLU:HA	2:503:B:THR:HA	3	0.21
(3,2100)	1:246:A:ALA:HA	1:249:A:VAL:HA	4	0.2
(3,2100)	1:246:A:ALA:HA	1:249:A:VAL:HA	7	0.2
(3,2100)	1:246:A:ALA:HA	1:249:A:VAL:HA	10	0.2
(3,1930)	1:233:A:LYS:HA	1:234:A:PRO:HB2	8	0.2
(3,1930)	1:233:A:LYS:HA	1:234:A:PRO:HB3	8	0.2
(3,1925)	1:233:A:LYS:HD2	1:233:A:LYS:HA	5	0.2
(3,1925)	1:233:A:LYS:HD3	1:233:A:LYS:HA	5	0.2
(3,1837)	1:227:A:ARG:HA	1:230:A:ASP:HA	9	0.2
(3,1532)	1:201:A:ALA:H	1:206:A:ASP:HA	9	0.2
(3,1146)	1:177:A:LEU:HG	1:180:A:ALA:H	1	0.2
(3,1074)	1:175:A:VAL:HG11	1:177:A:LEU:HG	4	0.2
(3,1074)	1:175:A:VAL:HG12	1:177:A:LEU:HG	4	0.2
(3,1074)	1:175:A:VAL:HG13	1:177:A:LEU:HG	4	0.2
(3,1074)	1:175:A:VAL:HG21	1:177:A:LEU:HG	4	0.2
(3,1074)	1:175:A:VAL:HG22	1:177:A:LEU:HG	4	0.2
(3,1074)	1:175:A:VAL:HG23	1:177:A:LEU:HG	4	0.2
(3,1074)	1:175:A:VAL:HG11	1:177:A:LEU:HG	10	0.2
(3,1074)	1:175:A:VAL:HG12	1:177:A:LEU:HG	10	0.2
(3,1074)	1:175:A:VAL:HG13	1:177:A:LEU:HG	10	0.2
(3,1074)	1:175:A:VAL:HG21	1:177:A:LEU:HG	10	0.2
(3,1074)	1:175:A:VAL:HG22	1:177:A:LEU:HG	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1074)	1:175:A:VAL:HG23	1:177:A:LEU:HG	10	0.2
(3,926)	1:170:A:LEU:HD11	1:240:A:MET:HA	3	0.2
(3,926)	1:170:A:LEU:HD12	1:240:A:MET:HA	3	0.2
(3,926)	1:170:A:LEU:HD13	1:240:A:MET:HA	3	0.2
(3,926)	1:170:A:LEU:HD21	1:240:A:MET:HA	3	0.2
(3,926)	1:170:A:LEU:HD22	1:240:A:MET:HA	3	0.2
(3,926)	1:170:A:LEU:HD23	1:240:A:MET:HA	3	0.2
(3,920)	1:170:A:LEU:HB2	1:196:A:HIS:HD2	7	0.2
(3,920)	1:170:A:LEU:HB3	1:196:A:HIS:HD2	7	0.2
(3,598)	1:151:A:LYS:HD2	1:152:A:THR:HA	6	0.2
(3,598)	1:151:A:LYS:HD3	1:152:A:THR:HA	6	0.2
(3,451)	1:139:A:TRP:HZ3	2:504:B:DBU:HB	2	0.2
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE1	6	0.2
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE2	6	0.2
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE1	6	0.2
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE2	6	0.2
(3,287)	1:128:A:PRO:HA	1:132:A:GLU:HA	2	0.2
(3,152)	1:119:A:LYS:HB2	1:127:A:ASP:HB2	3	0.2
(3,152)	1:119:A:LYS:HB2	1:127:A:ASP:HB3	3	0.2
(3,152)	1:119:A:LYS:HB3	1:127:A:ASP:HB2	3	0.2
(3,152)	1:119:A:LYS:HB3	1:127:A:ASP:HB3	3	0.2
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD1	8	0.2
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD2	8	0.2
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD1	8	0.2
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD2	8	0.2
(3,2155)	1:249:A:VAL:HG21	1:252:A:THR:H	6	0.19
(3,2155)	1:249:A:VAL:HG22	1:252:A:THR:H	6	0.19
(3,2155)	1:249:A:VAL:HG23	1:252:A:THR:H	6	0.19
(3,2141)	1:249:A:VAL:HG21	1:250:A:ARG:H	7	0.19
(3,2141)	1:249:A:VAL:HG22	1:250:A:ARG:H	7	0.19
(3,2141)	1:249:A:VAL:HG23	1:250:A:ARG:H	7	0.19
(3,2100)	1:246:A:ALA:HA	1:249:A:VAL:HA	1	0.19
(3,1849)	1:228:A:ASN:HB2	2:505:B:BB9:HB	1	0.19
(3,1708)	1:219:A:TYR:H	1:241:A:ARG:HG2	5	0.19
(3,1708)	1:219:A:TYR:H	1:241:A:ARG:HG3	5	0.19
(3,1683)	1:218:A:MET:HB2	2:509:B:BB9:HB	7	0.19
(3,1683)	1:218:A:MET:HB3	2:509:B:BB9:HB	7	0.19
(3,1546)	1:203:A:ASN:H	1:204:A:HIS:HE1	5	0.19
(3,1532)	1:201:A:ALA:H	1:206:A:ASP:HA	2	0.19
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD1	5	0.19
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD2	5	0.19
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD1	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD2	5	0.19
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD1	5	0.19
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD2	5	0.19
(3,1393)	1:191:A:ASP:HB2	1:195:A:ASP:HB2	5	0.19
(3,1393)	1:191:A:ASP:HB2	1:195:A:ASP:HB3	5	0.19
(3,1393)	1:191:A:ASP:HB3	1:195:A:ASP:HB2	5	0.19
(3,1393)	1:191:A:ASP:HB3	1:195:A:ASP:HB3	5	0.19
(3,1221)	1:179:A:ASP:H	1:182:A:GLU:H	6	0.19
(3,1146)	1:177:A:LEU:HG	1:180:A:ALA:H	9	0.19
(3,1087)	1:175:A:VAL:HG21	1:179:A:ASP:HB3	1	0.19
(3,1087)	1:175:A:VAL:HG22	1:179:A:ASP:HB3	1	0.19
(3,1087)	1:175:A:VAL:HG23	1:179:A:ASP:HB3	1	0.19
(3,1087)	1:175:A:VAL:HG21	1:179:A:ASP:HB3	4	0.19
(3,1087)	1:175:A:VAL:HG22	1:179:A:ASP:HB3	4	0.19
(3,1087)	1:175:A:VAL:HG23	1:179:A:ASP:HB3	4	0.19
(3,1087)	1:175:A:VAL:HG21	1:179:A:ASP:HB3	10	0.19
(3,1087)	1:175:A:VAL:HG22	1:179:A:ASP:HB3	10	0.19
(3,1087)	1:175:A:VAL:HG23	1:179:A:ASP:HB3	10	0.19
(3,920)	1:170:A:LEU:HB2	1:196:A:HIS:HD2	4	0.19
(3,920)	1:170:A:LEU:HB3	1:196:A:HIS:HD2	4	0.19
(3,920)	1:170:A:LEU:HB2	1:196:A:HIS:HD2	6	0.19
(3,920)	1:170:A:LEU:HB3	1:196:A:HIS:HD2	6	0.19
(3,920)	1:170:A:LEU:HB2	1:196:A:HIS:HD2	10	0.19
(3,920)	1:170:A:LEU:HB3	1:196:A:HIS:HD2	10	0.19
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD11	3	0.19
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD12	3	0.19
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD13	3	0.19
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD21	3	0.19
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD22	3	0.19
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD23	3	0.19
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD11	3	0.19
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD12	3	0.19
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD13	3	0.19
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD21	3	0.19
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD22	3	0.19
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD23	3	0.19
(3,733)	1:160:A:TRP:H	1:163:A:ILE:HG12	1	0.19
(3,733)	1:160:A:TRP:H	1:163:A:ILE:HG13	1	0.19
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE1	3	0.19
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE2	3	0.19
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE1	3	0.19
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE2	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,393)	1:135:A:VAL:HG21	2:503:B:THR:HB	2	0.19
(3,393)	1:135:A:VAL:HG22	2:503:B:THR:HB	2	0.19
(3,393)	1:135:A:VAL:HG23	2:503:B:THR:HB	2	0.19
(3,393)	1:135:A:VAL:HG21	2:503:B:THR:HB	4	0.19
(3,393)	1:135:A:VAL:HG22	2:503:B:THR:HB	4	0.19
(3,393)	1:135:A:VAL:HG23	2:503:B:THR:HB	4	0.19
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG1	1	0.19
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG2	1	0.19
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG3	1	0.19
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG1	2	0.19
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG2	2	0.19
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG3	2	0.19
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA2	3	0.19
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA3	3	0.19
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA2	3	0.19
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA3	3	0.19
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB2	7	0.19
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB3	7	0.19
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD2	7	0.19
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD3	7	0.19
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD2	7	0.19
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD3	7	0.19
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD2	7	0.19
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD3	7	0.19
(3,171)	1:120:A:PHE:HE1	1:124:A:GLY:HA2	8	0.19
(3,171)	1:120:A:PHE:HE1	1:124:A:GLY:HA3	8	0.19
(3,171)	1:120:A:PHE:HE2	1:124:A:GLY:HA2	8	0.19
(3,171)	1:120:A:PHE:HE2	1:124:A:GLY:HA3	8	0.19
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD1	3	0.19
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD2	3	0.19
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD1	3	0.19
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD2	3	0.19
(2,20)	1:132:A:GLU:HA	2:503:B:THR:HA	2	0.19
(2,20)	1:132:A:GLU:HA	2:503:B:THR:HA	5	0.19
(2,14)	1:114:A:LEU:HD11	1:157:A:LYS:HA	5	0.19
(2,14)	1:114:A:LEU:HD12	1:157:A:LYS:HA	5	0.19
(2,14)	1:114:A:LEU:HD13	1:157:A:LYS:HA	5	0.19
(1,24)	1:149:A:LYS:O	1:153:A:ALA:H	4	0.19
(1,24)	1:149:A:LYS:O	1:153:A:ALA:H	10	0.19
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB2	2	0.18
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB3	2	0.18
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB2	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB3	2	0.18
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB2	2	0.18
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB3	2	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD11	4	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD12	4	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD13	4	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD21	4	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD22	4	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD23	4	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD11	4	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD12	4	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD13	4	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD21	4	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD22	4	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD23	4	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD11	10	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD12	10	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD13	10	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD21	10	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD22	10	0.18
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD23	10	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD11	10	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD12	10	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD13	10	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD21	10	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD22	10	0.18
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD23	10	0.18
(3,1709)	1:219:A:TYR:HD1	2:507:B:BB9:HB	8	0.18
(3,1709)	1:219:A:TYR:HD2	2:507:B:BB9:HB	8	0.18
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB1	3	0.18
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB2	3	0.18
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB3	3	0.18
(3,1546)	1:203:A:ASN:H	1:204:A:HIS:HE1	2	0.18
(3,1518)	1:200:A:ILE:HG21	2:508:B:CYS:HA	6	0.18
(3,1518)	1:200:A:ILE:HG22	2:508:B:CYS:HA	6	0.18
(3,1518)	1:200:A:ILE:HG23	2:508:B:CYS:HA	6	0.18
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD1	4	0.18
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD2	4	0.18
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD1	4	0.18
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD2	4	0.18
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD1	4	0.18
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD2	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD1	10	0.18
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD2	10	0.18
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD1	10	0.18
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD2	10	0.18
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD1	10	0.18
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD2	10	0.18
(3,1507)	1:200:A:ILE:HG12	1:205:A:TYR:H	9	0.18
(3,1507)	1:200:A:ILE:HG13	1:205:A:TYR:H	9	0.18
(3,1461)	1:196:A:HIS:HD2	1:219:A:TYR:HE1	7	0.18
(3,1461)	1:196:A:HIS:HD2	1:219:A:TYR:HE2	7	0.18
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB2	1	0.18
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB3	1	0.18
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB2	6	0.18
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB3	6	0.18
(3,1376)	1:190:A:MET:HB2	1:247:A:ASN:H	5	0.18
(3,1376)	1:190:A:MET:HB3	1:247:A:ASN:H	5	0.18
(3,1221)	1:179:A:ASP:H	1:182:A:GLU:H	2	0.18
(3,1146)	1:177:A:LEU:HG	1:180:A:ALA:H	8	0.18
(3,1098)	1:175:A:VAL:HG11	1:233:A:LYS:HA	6	0.18
(3,1098)	1:175:A:VAL:HG12	1:233:A:LYS:HA	6	0.18
(3,1098)	1:175:A:VAL:HG13	1:233:A:LYS:HA	6	0.18
(3,989)	1:173:A:ARG:HH21	1:174:A:PHE:HD1	4	0.18
(3,989)	1:173:A:ARG:HH21	1:174:A:PHE:HD2	4	0.18
(3,989)	1:173:A:ARG:HH22	1:174:A:PHE:HD1	4	0.18
(3,989)	1:173:A:ARG:HH22	1:174:A:PHE:HD2	4	0.18
(3,926)	1:170:A:LEU:HD11	1:240:A:MET:HA	5	0.18
(3,926)	1:170:A:LEU:HD12	1:240:A:MET:HA	5	0.18
(3,926)	1:170:A:LEU:HD13	1:240:A:MET:HA	5	0.18
(3,926)	1:170:A:LEU:HD21	1:240:A:MET:HA	5	0.18
(3,926)	1:170:A:LEU:HD22	1:240:A:MET:HA	5	0.18
(3,926)	1:170:A:LEU:HD23	1:240:A:MET:HA	5	0.18
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB2	5	0.18
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB3	5	0.18
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB2	5	0.18
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB3	5	0.18
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB2	5	0.18
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB3	5	0.18
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB2	5	0.18
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB3	5	0.18
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB2	5	0.18
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB3	5	0.18
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB2	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB3	5	0.18
(3,869)	1:169:A:GLU:HG2	1:172:A:ARG:HD2	7	0.18
(3,869)	1:169:A:GLU:HG2	1:172:A:ARG:HD3	7	0.18
(3,869)	1:169:A:GLU:HG3	1:172:A:ARG:HD2	7	0.18
(3,869)	1:169:A:GLU:HG3	1:172:A:ARG:HD3	7	0.18
(3,739)	1:160:A:TRP:HH2	3:601:B:NO1:HB1C	9	0.18
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB1	8	0.18
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB2	8	0.18
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB3	8	0.18
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB1	8	0.18
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB2	8	0.18
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB3	8	0.18
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE1	8	0.18
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE2	8	0.18
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE1	8	0.18
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE2	8	0.18
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE1	9	0.18
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE2	9	0.18
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE1	9	0.18
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE2	9	0.18
(3,393)	1:135:A:VAL:HG21	2:503:B:THR:HB	10	0.18
(3,393)	1:135:A:VAL:HG22	2:503:B:THR:HB	10	0.18
(3,393)	1:135:A:VAL:HG23	2:503:B:THR:HB	10	0.18
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG11	7	0.18
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG12	7	0.18
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG13	7	0.18
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG21	7	0.18
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG22	7	0.18
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG23	7	0.18
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG11	7	0.18
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG12	7	0.18
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG13	7	0.18
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG21	7	0.18
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG22	7	0.18
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG23	7	0.18
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG2	7	0.18
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG3	7	0.18
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG2	7	0.18
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG3	7	0.18
(3,286)	1:128:A:PRO:HA	1:131:A:TYR:HE1	4	0.18
(3,286)	1:128:A:PRO:HA	1:131:A:TYR:HE2	4	0.18
(3,286)	1:128:A:PRO:HA	1:131:A:TYR:HE1	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,286)	1:128:A:PRO:HA	1:131:A:TYR:HE2	10	0.18
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB2	1	0.18
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB3	1	0.18
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD2	9	0.18
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD3	9	0.18
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD2	9	0.18
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD3	9	0.18
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD2	9	0.18
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD3	9	0.18
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE1	3	0.18
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE2	3	0.18
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE1	3	0.18
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE2	3	0.18
(2,20)	1:132:A:GLU:HA	2:503:B:THR:HA	4	0.18
(2,20)	1:132:A:GLU:HA	2:503:B:THR:HA	10	0.18
(3,2205)	2:504:B:DBU:HB	2:509:B:BB9:HB	2	0.17
(3,2155)	1:249:A:VAL:HG21	1:252:A:THR:H	8	0.17
(3,2155)	1:249:A:VAL:HG22	1:252:A:THR:H	8	0.17
(3,2155)	1:249:A:VAL:HG23	1:252:A:THR:H	8	0.17
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB2	5	0.17
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB3	5	0.17
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB2	5	0.17
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB3	5	0.17
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB2	5	0.17
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB3	5	0.17
(3,2100)	1:246:A:ALA:HA	1:249:A:VAL:HA	2	0.17
(3,2100)	1:246:A:ALA:HA	1:249:A:VAL:HA	9	0.17
(3,1933)	1:233:A:LYS:HG2	1:235:A:GLY:H	5	0.17
(3,1933)	1:233:A:LYS:HG3	1:235:A:GLY:H	5	0.17
(3,1683)	1:218:A:MET:HB2	2:509:B:BB9:HB	2	0.17
(3,1683)	1:218:A:MET:HB3	2:509:B:BB9:HB	2	0.17
(3,1588)	1:209:A:TYR:HE1	1:248:A:ALA:HB1	5	0.17
(3,1588)	1:209:A:TYR:HE1	1:248:A:ALA:HB2	5	0.17
(3,1588)	1:209:A:TYR:HE1	1:248:A:ALA:HB3	5	0.17
(3,1588)	1:209:A:TYR:HE2	1:248:A:ALA:HB1	5	0.17
(3,1588)	1:209:A:TYR:HE2	1:248:A:ALA:HB2	5	0.17
(3,1588)	1:209:A:TYR:HE2	1:248:A:ALA:HB3	5	0.17
(3,1544)	1:202:A:ARG:HH11	1:204:A:HIS:H	8	0.17
(3,1544)	1:202:A:ARG:HH12	1:204:A:HIS:H	8	0.17
(3,1544)	1:202:A:ARG:HH21	1:204:A:HIS:H	9	0.17
(3,1544)	1:202:A:ARG:HH22	1:204:A:HIS:H	9	0.17
(3,1532)	1:201:A:ALA:H	1:206:A:ASP:HA	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1516)	1:200:A:ILE:HG12	2:507:B:BB9:HB	4	0.17
(3,1516)	1:200:A:ILE:HG13	2:507:B:BB9:HB	4	0.17
(3,1516)	1:200:A:ILE:HG12	2:507:B:BB9:HB	10	0.17
(3,1516)	1:200:A:ILE:HG13	2:507:B:BB9:HB	10	0.17
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD1	7	0.17
(3,1508)	1:200:A:ILE:HG21	1:205:A:TYR:HD2	7	0.17
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD1	7	0.17
(3,1508)	1:200:A:ILE:HG22	1:205:A:TYR:HD2	7	0.17
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD1	7	0.17
(3,1508)	1:200:A:ILE:HG23	1:205:A:TYR:HD2	7	0.17
(3,1472)	1:197:A:ARG:HG2	1:209:A:TYR:HE1	3	0.17
(3,1472)	1:197:A:ARG:HG2	1:209:A:TYR:HE2	3	0.17
(3,1472)	1:197:A:ARG:HG3	1:209:A:TYR:HE1	3	0.17
(3,1472)	1:197:A:ARG:HG3	1:209:A:TYR:HE2	3	0.17
(3,1460)	1:196:A:HIS:HE1	1:215:A:LEU:HB2	2	0.17
(3,1460)	1:196:A:HIS:HE1	1:215:A:LEU:HB3	2	0.17
(3,1460)	1:196:A:HIS:HE1	1:215:A:LEU:HB2	3	0.17
(3,1460)	1:196:A:HIS:HE1	1:215:A:LEU:HB3	3	0.17
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB2	4	0.17
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB3	4	0.17
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB2	10	0.17
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB3	10	0.17
(3,1333)	1:187:A:GLU:HG2	1:190:A:MET:HB2	5	0.17
(3,1333)	1:187:A:GLU:HG2	1:190:A:MET:HB3	5	0.17
(3,1333)	1:187:A:GLU:HG3	1:190:A:MET:HB2	5	0.17
(3,1333)	1:187:A:GLU:HG3	1:190:A:MET:HB3	5	0.17
(3,1221)	1:179:A:ASP:H	1:182:A:GLU:H	9	0.17
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB1	1	0.17
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB2	1	0.17
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB3	1	0.17
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB1	1	0.17
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB2	1	0.17
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB3	1	0.17
(3,1146)	1:177:A:LEU:HG	1:180:A:ALA:H	7	0.17
(3,989)	1:173:A:ARG:HH21	1:174:A:PHE:HD1	5	0.17
(3,989)	1:173:A:ARG:HH21	1:174:A:PHE:HD2	5	0.17
(3,989)	1:173:A:ARG:HH22	1:174:A:PHE:HD1	5	0.17
(3,989)	1:173:A:ARG:HH22	1:174:A:PHE:HD2	5	0.17
(3,989)	1:173:A:ARG:HH21	1:174:A:PHE:HD1	10	0.17
(3,989)	1:173:A:ARG:HH21	1:174:A:PHE:HD2	10	0.17
(3,989)	1:173:A:ARG:HH22	1:174:A:PHE:HD1	10	0.17
(3,989)	1:173:A:ARG:HH22	1:174:A:PHE:HD2	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,920)	1:170:A:LEU:HB2	1:196:A:HIS:HD2	8	0.17
(3,920)	1:170:A:LEU:HB3	1:196:A:HIS:HD2	8	0.17
(3,549)	1:147:A:GLN:HE21	1:206:A:ASP:H	6	0.17
(3,549)	1:147:A:GLN:HE22	1:206:A:ASP:H	6	0.17
(3,468)	1:141:A:ASN:HA	1:145:A:TYR:HD1	3	0.17
(3,468)	1:141:A:ASN:HA	1:145:A:TYR:HD2	3	0.17
(3,451)	1:139:A:TRP:HZ3	2:504:B:DBU:HB	7	0.17
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD1	6	0.17
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD2	6	0.17
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD1	9	0.17
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD2	9	0.17
(3,444)	1:139:A:TRP:HZ2	1:225:A:PHE:HE1	9	0.17
(3,444)	1:139:A:TRP:HZ2	1:225:A:PHE:HE2	9	0.17
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE1	7	0.17
(3,443)	1:139:A:TRP:HB2	1:145:A:TYR:HE2	7	0.17
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE1	7	0.17
(3,443)	1:139:A:TRP:HB3	1:145:A:TYR:HE2	7	0.17
(3,430)	1:138:A:ARG:HG2	1:139:A:TRP:HZ2	3	0.17
(3,430)	1:138:A:ARG:HG3	1:139:A:TRP:HZ2	3	0.17
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG2	1	0.17
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG3	1	0.17
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG2	1	0.17
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG3	1	0.17
(3,275)	1:126:A:PHE:HE1	2:506:B:3GL:HA	4	0.17
(3,275)	1:126:A:PHE:HE2	2:506:B:3GL:HA	4	0.17
(3,275)	1:126:A:PHE:HE1	2:506:B:3GL:HA	10	0.17
(3,275)	1:126:A:PHE:HE2	2:506:B:3GL:HA	10	0.17
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB2	8	0.17
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB3	8	0.17
(3,169)	1:120:A:PHE:HD1	1:124:A:GLY:HA3	6	0.17
(3,169)	1:120:A:PHE:HD2	1:124:A:GLY:HA3	6	0.17
(1,96)	1:224:A:ARG:O	1:228:A:ASN:H	5	0.17
(3,2205)	2:504:B:DBU:HB	2:509:B:BB9:HB	7	0.16
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD11	9	0.16
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD12	9	0.16
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD13	9	0.16
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD21	9	0.16
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD22	9	0.16
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD23	9	0.16
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD11	9	0.16
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD12	9	0.16
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD13	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD21	9	0.16
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD22	9	0.16
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD23	9	0.16
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG2	3	0.16
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG3	3	0.16
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG2	5	0.16
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG3	5	0.16
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG2	7	0.16
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG3	7	0.16
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB2	1	0.16
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB3	1	0.16
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB2	1	0.16
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB3	1	0.16
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB2	1	0.16
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB3	1	0.16
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB2	5	0.16
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB3	5	0.16
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB2	5	0.16
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB3	5	0.16
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB2	5	0.16
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB3	5	0.16
(3,1696)	1:219:A:TYR:HB2	1:229:A:ILE:HD11	6	0.16
(3,1696)	1:219:A:TYR:HB2	1:229:A:ILE:HD12	6	0.16
(3,1696)	1:219:A:TYR:HB2	1:229:A:ILE:HD13	6	0.16
(3,1696)	1:219:A:TYR:HB3	1:229:A:ILE:HD11	6	0.16
(3,1696)	1:219:A:TYR:HB3	1:229:A:ILE:HD12	6	0.16
(3,1696)	1:219:A:TYR:HB3	1:229:A:ILE:HD13	6	0.16
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB1	8	0.16
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB2	8	0.16
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB3	8	0.16
(3,1560)	1:205:A:TYR:HD1	1:206:A:ASP:HB2	2	0.16
(3,1560)	1:205:A:TYR:HD1	1:206:A:ASP:HB3	2	0.16
(3,1560)	1:205:A:TYR:HD2	1:206:A:ASP:HB2	2	0.16
(3,1560)	1:205:A:TYR:HD2	1:206:A:ASP:HB3	2	0.16
(3,1546)	1:203:A:ASN:H	1:204:A:HIS:HE1	1	0.16
(3,1447)	1:195:A:ASP:HB2	1:198:A:GLN:HB2	8	0.16
(3,1447)	1:195:A:ASP:HB2	1:198:A:GLN:HB3	8	0.16
(3,1447)	1:195:A:ASP:HB3	1:198:A:GLN:HB2	8	0.16
(3,1447)	1:195:A:ASP:HB3	1:198:A:GLN:HB3	8	0.16
(3,1393)	1:191:A:ASP:HB2	1:195:A:ASP:HB2	8	0.16
(3,1393)	1:191:A:ASP:HB2	1:195:A:ASP:HB3	8	0.16
(3,1393)	1:191:A:ASP:HB3	1:195:A:ASP:HB2	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1393)	1:191:A:ASP:HB3	1:195:A:ASP:HB3	8	0.16
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB2	3	0.16
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB3	3	0.16
(3,1226)	1:179:A:ASP:HA	1:233:A:LYS:HD2	7	0.16
(3,1226)	1:179:A:ASP:HA	1:233:A:LYS:HD3	7	0.16
(3,1199)	1:178:A:MET:HE1	1:236:A:LEU:HG	5	0.16
(3,1199)	1:178:A:MET:HE2	1:236:A:LEU:HG	5	0.16
(3,1199)	1:178:A:MET:HE3	1:236:A:LEU:HG	5	0.16
(3,1146)	1:177:A:LEU:HG	1:180:A:ALA:H	2	0.16
(3,1146)	1:177:A:LEU:HG	1:180:A:ALA:H	6	0.16
(3,1087)	1:175:A:VAL:HG21	1:179:A:ASP:HB3	8	0.16
(3,1087)	1:175:A:VAL:HG22	1:179:A:ASP:HB3	8	0.16
(3,1087)	1:175:A:VAL:HG23	1:179:A:ASP:HB3	8	0.16
(3,944)	1:171:A:THR:HA	1:174:A:PHE:HE1	5	0.16
(3,944)	1:171:A:THR:HA	1:174:A:PHE:HE2	5	0.16
(3,920)	1:170:A:LEU:HB2	1:196:A:HIS:HD2	1	0.16
(3,920)	1:170:A:LEU:HB3	1:196:A:HIS:HD2	1	0.16
(3,920)	1:170:A:LEU:HB2	1:196:A:HIS:HD2	2	0.16
(3,920)	1:170:A:LEU:HB3	1:196:A:HIS:HD2	2	0.16
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD11	9	0.16
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD12	9	0.16
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD13	9	0.16
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD21	9	0.16
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD22	9	0.16
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD23	9	0.16
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD11	9	0.16
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD12	9	0.16
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD13	9	0.16
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD21	9	0.16
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD22	9	0.16
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD23	9	0.16
(3,824)	1:166:A:GLU:HG2	1:167:A:ALA:HA	3	0.16
(3,824)	1:166:A:GLU:HG3	1:167:A:ALA:HA	3	0.16
(3,733)	1:160:A:TRP:H	1:163:A:ILE:HG12	5	0.16
(3,733)	1:160:A:TRP:H	1:163:A:ILE:HG13	5	0.16
(3,607)	1:151:A:LYS:HE2	1:202:A:ARG:HA	5	0.16
(3,607)	1:151:A:LYS:HE3	1:202:A:ARG:HA	5	0.16
(3,600)	1:151:A:LYS:HE2	1:152:A:THR:HA	3	0.16
(3,600)	1:151:A:LYS:HE3	1:152:A:THR:HA	3	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB1	6	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB2	6	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB3	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB1	6	0.16
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB2	6	0.16
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB3	6	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB1	7	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB2	7	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB3	7	0.16
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB1	7	0.16
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB2	7	0.16
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB3	7	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB1	9	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB2	9	0.16
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB3	9	0.16
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB1	9	0.16
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB2	9	0.16
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB3	9	0.16
(3,516)	1:145:A:TYR:HA	2:501:B:SER:HB3	3	0.16
(3,451)	1:139:A:TRP:HZ3	2:504:B:DBU:HB	8	0.16
(3,393)	1:135:A:VAL:HG21	2:503:B:THR:HB	1	0.16
(3,393)	1:135:A:VAL:HG22	2:503:B:THR:HB	1	0.16
(3,393)	1:135:A:VAL:HG23	2:503:B:THR:HB	1	0.16
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG11	6	0.16
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG12	6	0.16
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG13	6	0.16
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG21	6	0.16
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG22	6	0.16
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG23	6	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG11	6	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG12	6	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG13	6	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG21	6	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG22	6	0.16
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG23	6	0.16
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG2	4	0.16
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG3	4	0.16
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG2	4	0.16
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG3	4	0.16
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG2	10	0.16
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG3	10	0.16
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG2	10	0.16
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG3	10	0.16
(3,275)	1:126:A:PHE:HE1	2:506:B:3GL:HA	5	0.16
(3,275)	1:126:A:PHE:HE2	2:506:B:3GL:HA	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,202)	1:122:A:VAL:HG11	1:160:A:TRP:HA	4	0.16
(3,202)	1:122:A:VAL:HG12	1:160:A:TRP:HA	4	0.16
(3,202)	1:122:A:VAL:HG13	1:160:A:TRP:HA	4	0.16
(3,202)	1:122:A:VAL:HG21	1:160:A:TRP:HA	4	0.16
(3,202)	1:122:A:VAL:HG22	1:160:A:TRP:HA	4	0.16
(3,202)	1:122:A:VAL:HG23	1:160:A:TRP:HA	4	0.16
(3,202)	1:122:A:VAL:HG11	1:160:A:TRP:HA	10	0.16
(3,202)	1:122:A:VAL:HG12	1:160:A:TRP:HA	10	0.16
(3,202)	1:122:A:VAL:HG13	1:160:A:TRP:HA	10	0.16
(3,202)	1:122:A:VAL:HG21	1:160:A:TRP:HA	10	0.16
(3,202)	1:122:A:VAL:HG22	1:160:A:TRP:HA	10	0.16
(3,202)	1:122:A:VAL:HG23	1:160:A:TRP:HA	10	0.16
(3,94)	1:115:A:THR:HG21	1:117:A:GLU:HG2	6	0.16
(3,94)	1:115:A:THR:HG21	1:117:A:GLU:HG3	6	0.16
(3,94)	1:115:A:THR:HG22	1:117:A:GLU:HG2	6	0.16
(3,94)	1:115:A:THR:HG22	1:117:A:GLU:HG3	6	0.16
(3,94)	1:115:A:THR:HG23	1:117:A:GLU:HG2	6	0.16
(3,94)	1:115:A:THR:HG23	1:117:A:GLU:HG3	6	0.16
(3,34)	1:112:A:ILE:HB	1:160:A:TRP:HE1	3	0.16
(2,38)	1:177:A:LEU:HD21	1:188:A:GLY:HA3	2	0.16
(2,38)	1:177:A:LEU:HD22	1:188:A:GLY:HA3	2	0.16
(2,38)	1:177:A:LEU:HD23	1:188:A:GLY:HA3	2	0.16
(1,96)	1:224:A:ARG:O	1:228:A:ASN:H	1	0.16
(3,2177)	1:252:A:THR:HG21	1:253:A:PRO:HB2	1	0.15
(3,2177)	1:252:A:THR:HG21	1:253:A:PRO:HB3	1	0.15
(3,2177)	1:252:A:THR:HG22	1:253:A:PRO:HB2	1	0.15
(3,2177)	1:252:A:THR:HG22	1:253:A:PRO:HB3	1	0.15
(3,2177)	1:252:A:THR:HG23	1:253:A:PRO:HB2	1	0.15
(3,2177)	1:252:A:THR:HG23	1:253:A:PRO:HB3	1	0.15
(3,2155)	1:249:A:VAL:HG21	1:252:A:THR:H	3	0.15
(3,2155)	1:249:A:VAL:HG22	1:252:A:THR:H	3	0.15
(3,2155)	1:249:A:VAL:HG23	1:252:A:THR:H	3	0.15
(3,2155)	1:249:A:VAL:HG21	1:252:A:THR:H	7	0.15
(3,2155)	1:249:A:VAL:HG22	1:252:A:THR:H	7	0.15
(3,2155)	1:249:A:VAL:HG23	1:252:A:THR:H	7	0.15
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB2	7	0.15
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB3	7	0.15
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB2	7	0.15
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB3	7	0.15
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB2	7	0.15
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB3	7	0.15
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD11	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD12	1	0.15
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD13	1	0.15
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD21	1	0.15
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD22	1	0.15
(3,2076)	1:244:A:ILE:HG12	1:245:A:LEU:HD23	1	0.15
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD11	1	0.15
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD12	1	0.15
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD13	1	0.15
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD21	1	0.15
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD22	1	0.15
(3,2076)	1:244:A:ILE:HG13	1:245:A:LEU:HD23	1	0.15
(3,2060)	1:242:A:ASP:HB2	1:246:A:ALA:H	3	0.15
(3,2060)	1:242:A:ASP:HB3	1:246:A:ALA:H	3	0.15
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG2	6	0.15
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG3	6	0.15
(3,1933)	1:233:A:LYS:HG2	1:235:A:GLY:H	2	0.15
(3,1933)	1:233:A:LYS:HG3	1:235:A:GLY:H	2	0.15
(3,1848)	1:228:A:ASN:HB3	2:505:B:BB9:HB	7	0.15
(3,1774)	1:224:A:ARG:HG2	2:505:B:BB9:HB	9	0.15
(3,1774)	1:224:A:ARG:HG3	2:505:B:BB9:HB	9	0.15
(3,1709)	1:219:A:TYR:HD1	2:507:B:BB9:HB	1	0.15
(3,1709)	1:219:A:TYR:HD2	2:507:B:BB9:HB	1	0.15
(3,1652)	1:215:A:LEU:HB2	1:244:A:ILE:HG12	7	0.15
(3,1652)	1:215:A:LEU:HB2	1:244:A:ILE:HG13	7	0.15
(3,1652)	1:215:A:LEU:HB3	1:244:A:ILE:HG12	7	0.15
(3,1652)	1:215:A:LEU:HB3	1:244:A:ILE:HG13	7	0.15
(3,1633)	1:213:A:THR:HG21	1:248:A:ALA:H	8	0.15
(3,1633)	1:213:A:THR:HG22	1:248:A:ALA:H	8	0.15
(3,1633)	1:213:A:THR:HG23	1:248:A:ALA:H	8	0.15
(3,1583)	1:209:A:TYR:HD1	1:212:A:HIS:HE1	3	0.15
(3,1583)	1:209:A:TYR:HD2	1:212:A:HIS:HE1	3	0.15
(3,1538)	1:202:A:ARG:H	1:202:A:ARG:HG2	5	0.15
(3,1538)	1:202:A:ARG:H	1:202:A:ARG:HG3	5	0.15
(3,1469)	1:197:A:ARG:HG2	1:209:A:TYR:HD1	4	0.15
(3,1469)	1:197:A:ARG:HG2	1:209:A:TYR:HD2	4	0.15
(3,1469)	1:197:A:ARG:HG3	1:209:A:TYR:HD1	4	0.15
(3,1469)	1:197:A:ARG:HG3	1:209:A:TYR:HD2	4	0.15
(3,1469)	1:197:A:ARG:HG2	1:209:A:TYR:HD1	10	0.15
(3,1469)	1:197:A:ARG:HG2	1:209:A:TYR:HD2	10	0.15
(3,1469)	1:197:A:ARG:HG3	1:209:A:TYR:HD1	10	0.15
(3,1469)	1:197:A:ARG:HG3	1:209:A:TYR:HD2	10	0.15
(3,1460)	1:196:A:HIS:HE1	1:215:A:LEU:HB2	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1460)	1:196:A:HIS:HE1	1:215:A:LEU:HB3	1	0.15
(3,1393)	1:191:A:ASP:HB2	1:195:A:ASP:HB2	7	0.15
(3,1393)	1:191:A:ASP:HB2	1:195:A:ASP:HB3	7	0.15
(3,1393)	1:191:A:ASP:HB3	1:195:A:ASP:HB2	7	0.15
(3,1393)	1:191:A:ASP:HB3	1:195:A:ASP:HB3	7	0.15
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB2	9	0.15
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB3	9	0.15
(3,1333)	1:187:A:GLU:HG2	1:190:A:MET:HB2	3	0.15
(3,1333)	1:187:A:GLU:HG2	1:190:A:MET:HB3	3	0.15
(3,1333)	1:187:A:GLU:HG3	1:190:A:MET:HB2	3	0.15
(3,1333)	1:187:A:GLU:HG3	1:190:A:MET:HB3	3	0.15
(3,1301)	1:185:A:ASP:HB2	1:190:A:MET:HB2	7	0.15
(3,1301)	1:185:A:ASP:HB2	1:190:A:MET:HB3	7	0.15
(3,1301)	1:185:A:ASP:HB3	1:190:A:MET:HB2	7	0.15
(3,1301)	1:185:A:ASP:HB3	1:190:A:MET:HB3	7	0.15
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB1	4	0.15
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB2	4	0.15
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB3	4	0.15
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB1	4	0.15
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB2	4	0.15
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB3	4	0.15
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB1	10	0.15
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB2	10	0.15
(3,1268)	1:183:A:PRO:HG2	1:189:A:ALA:HB3	10	0.15
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB1	10	0.15
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB2	10	0.15
(3,1268)	1:183:A:PRO:HG3	1:189:A:ALA:HB3	10	0.15
(3,1226)	1:179:A:ASP:HA	1:233:A:LYS:HD2	4	0.15
(3,1226)	1:179:A:ASP:HA	1:233:A:LYS:HD3	4	0.15
(3,1226)	1:179:A:ASP:HA	1:233:A:LYS:HD2	10	0.15
(3,1226)	1:179:A:ASP:HA	1:233:A:LYS:HD3	10	0.15
(3,1221)	1:179:A:ASP:H	1:182:A:GLU:H	3	0.15
(3,1212)	1:178:A:MET:HE1	1:239:A:TYR:HA	8	0.15
(3,1212)	1:178:A:MET:HE2	1:239:A:TYR:HA	8	0.15
(3,1212)	1:178:A:MET:HE3	1:239:A:TYR:HA	8	0.15
(3,1212)	1:178:A:MET:HE1	1:239:A:TYR:HA	9	0.15
(3,1212)	1:178:A:MET:HE2	1:239:A:TYR:HA	9	0.15
(3,1212)	1:178:A:MET:HE3	1:239:A:TYR:HA	9	0.15
(3,1173)	1:177:A:LEU:HB2	1:239:A:TYR:HE1	4	0.15
(3,1173)	1:177:A:LEU:HB2	1:239:A:TYR:HE2	4	0.15
(3,1173)	1:177:A:LEU:HB3	1:239:A:TYR:HE1	4	0.15
(3,1173)	1:177:A:LEU:HB3	1:239:A:TYR:HE2	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1173)	1:177:A:LEU:HB2	1:239:A:TYR:HE1	10	0.15
(3,1173)	1:177:A:LEU:HB2	1:239:A:TYR:HE2	10	0.15
(3,1173)	1:177:A:LEU:HB3	1:239:A:TYR:HE1	10	0.15
(3,1173)	1:177:A:LEU:HB3	1:239:A:TYR:HE2	10	0.15
(3,1099)	1:175:A:VAL:HG11	1:233:A:LYS:HG3	9	0.15
(3,1099)	1:175:A:VAL:HG12	1:233:A:LYS:HG3	9	0.15
(3,1099)	1:175:A:VAL:HG13	1:233:A:LYS:HG3	9	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG11	4	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG12	4	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG13	4	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG11	4	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG12	4	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG13	4	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG11	6	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG12	6	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG13	6	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG11	6	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG12	6	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG13	6	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG11	7	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG12	7	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG13	7	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG11	7	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG12	7	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG13	7	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG11	10	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG12	10	0.15
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG13	10	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG11	10	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG12	10	0.15
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG13	10	0.15
(3,988)	1:173:A:ARG:HG2	1:174:A:PHE:HZ	2	0.15
(3,988)	1:173:A:ARG:HG3	1:174:A:PHE:HZ	2	0.15
(3,920)	1:170:A:LEU:HB2	1:196:A:HIS:HD2	9	0.15
(3,920)	1:170:A:LEU:HB3	1:196:A:HIS:HD2	9	0.15
(3,733)	1:160:A:TRP:H	1:163:A:ILE:HG12	2	0.15
(3,733)	1:160:A:TRP:H	1:163:A:ILE:HG13	2	0.15
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD2	1	0.15
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD3	1	0.15
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD2	1	0.15
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD3	1	0.15
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD2	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD3	1	0.15
(3,515)	1:145:A:TYR:HD1	1:149:A:LYS:HZ1	4	0.15
(3,515)	1:145:A:TYR:HD1	1:149:A:LYS:HZ2	4	0.15
(3,515)	1:145:A:TYR:HD1	1:149:A:LYS:HZ3	4	0.15
(3,515)	1:145:A:TYR:HD2	1:149:A:LYS:HZ1	4	0.15
(3,515)	1:145:A:TYR:HD2	1:149:A:LYS:HZ2	4	0.15
(3,515)	1:145:A:TYR:HD2	1:149:A:LYS:HZ3	4	0.15
(3,515)	1:145:A:TYR:HD1	1:149:A:LYS:HZ1	10	0.15
(3,515)	1:145:A:TYR:HD1	1:149:A:LYS:HZ2	10	0.15
(3,515)	1:145:A:TYR:HD1	1:149:A:LYS:HZ3	10	0.15
(3,515)	1:145:A:TYR:HD2	1:149:A:LYS:HZ1	10	0.15
(3,515)	1:145:A:TYR:HD2	1:149:A:LYS:HZ2	10	0.15
(3,515)	1:145:A:TYR:HD2	1:149:A:LYS:HZ3	10	0.15
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB2	2	0.15
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB3	2	0.15
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB2	5	0.15
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB3	5	0.15
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB2	7	0.15
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB3	7	0.15
(3,430)	1:138:A:ARG:HG2	1:139:A:TRP:HZ2	7	0.15
(3,430)	1:138:A:ARG:HG3	1:139:A:TRP:HZ2	7	0.15
(3,393)	1:135:A:VAL:HG21	2:503:B:THR:HB	5	0.15
(3,393)	1:135:A:VAL:HG22	2:503:B:THR:HB	5	0.15
(3,393)	1:135:A:VAL:HG23	2:503:B:THR:HB	5	0.15
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG21	7	0.15
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG22	7	0.15
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG23	7	0.15
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG21	7	0.15
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG22	7	0.15
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG23	7	0.15
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG21	7	0.15
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG22	7	0.15
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG23	7	0.15
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG21	9	0.15
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG22	9	0.15
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG23	9	0.15
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG21	9	0.15
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG22	9	0.15
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG23	9	0.15
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG21	9	0.15
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG22	9	0.15
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG23	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,380)	1:135:A:VAL:HG11	1:142:A:THR:HG21	3	0.15
(3,380)	1:135:A:VAL:HG11	1:142:A:THR:HG22	3	0.15
(3,380)	1:135:A:VAL:HG11	1:142:A:THR:HG23	3	0.15
(3,380)	1:135:A:VAL:HG12	1:142:A:THR:HG21	3	0.15
(3,380)	1:135:A:VAL:HG12	1:142:A:THR:HG22	3	0.15
(3,380)	1:135:A:VAL:HG12	1:142:A:THR:HG23	3	0.15
(3,380)	1:135:A:VAL:HG13	1:142:A:THR:HG21	3	0.15
(3,380)	1:135:A:VAL:HG13	1:142:A:THR:HG22	3	0.15
(3,380)	1:135:A:VAL:HG13	1:142:A:THR:HG23	3	0.15
(3,364)	1:135:A:VAL:H	1:136:A:ARG:HA	8	0.15
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG11	8	0.15
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG12	8	0.15
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG13	8	0.15
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG21	8	0.15
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG22	8	0.15
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG23	8	0.15
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG11	8	0.15
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG12	8	0.15
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG13	8	0.15
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG21	8	0.15
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG22	8	0.15
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG23	8	0.15
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG1	4	0.15
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG2	4	0.15
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG3	4	0.15
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG1	10	0.15
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG2	10	0.15
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG3	10	0.15
(3,275)	1:126:A:PHE:HE1	2:506:B:3GL:HA	3	0.15
(3,275)	1:126:A:PHE:HE2	2:506:B:3GL:HA	3	0.15
(3,262)	1:126:A:PHE:HD1	1:127:A:ASP:HB2	3	0.15
(3,262)	1:126:A:PHE:HD1	1:127:A:ASP:HB3	3	0.15
(3,262)	1:126:A:PHE:HD2	1:127:A:ASP:HB2	3	0.15
(3,262)	1:126:A:PHE:HD2	1:127:A:ASP:HB3	3	0.15
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB2	6	0.15
(3,215)	1:122:A:VAL:HB	1:164:A:GLN:HB3	6	0.15
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD2	8	0.15
(3,193)	1:122:A:VAL:HG21	1:157:A:LYS:HD3	8	0.15
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD2	8	0.15
(3,193)	1:122:A:VAL:HG22	1:157:A:LYS:HD3	8	0.15
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD2	8	0.15
(3,193)	1:122:A:VAL:HG23	1:157:A:LYS:HD3	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE1	7	0.15
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE2	7	0.15
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE1	7	0.15
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE2	7	0.15
(3,34)	1:112:A:ILE:HB	1:160:A:TRP:HE1	4	0.15
(3,34)	1:112:A:ILE:HB	1:160:A:TRP:HE1	5	0.15
(3,34)	1:112:A:ILE:HB	1:160:A:TRP:HE1	10	0.15
(2,38)	1:177:A:LEU:HD21	1:188:A:GLY:HA3	8	0.15
(2,38)	1:177:A:LEU:HD22	1:188:A:GLY:HA3	8	0.15
(2,38)	1:177:A:LEU:HD23	1:188:A:GLY:HA3	8	0.15
(2,29)	1:160:A:TRP:HH2	3:601:B:NO1:HZ3	7	0.15
(3,2205)	2:504:B:DBU:HB	2:509:B:BB9:HB	4	0.14
(3,2205)	2:504:B:DBU:HB	2:509:B:BB9:HB	10	0.14
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG21	1	0.14
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG22	1	0.14
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG23	1	0.14
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG21	1	0.14
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG22	1	0.14
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG23	1	0.14
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG21	2	0.14
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG22	2	0.14
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG23	2	0.14
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG21	2	0.14
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG22	2	0.14
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG23	2	0.14
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG21	5	0.14
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG22	5	0.14
(3,2165)	1:250:A:ARG:HG2	1:252:A:THR:HG23	5	0.14
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG21	5	0.14
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG22	5	0.14
(3,2165)	1:250:A:ARG:HG3	1:252:A:THR:HG23	5	0.14
(3,1936)	1:233:A:LYS:HD2	1:236:A:LEU:HA	7	0.14
(3,1936)	1:233:A:LYS:HD3	1:236:A:LEU:HA	7	0.14
(3,1933)	1:233:A:LYS:HG2	1:235:A:GLY:H	1	0.14
(3,1933)	1:233:A:LYS:HG3	1:235:A:GLY:H	1	0.14
(3,1924)	1:233:A:LYS:H	1:233:A:LYS:HD2	7	0.14
(3,1924)	1:233:A:LYS:H	1:233:A:LYS:HD3	7	0.14
(3,1898)	1:230:A:ASP:HB2	1:234:A:PRO:HB2	1	0.14
(3,1898)	1:230:A:ASP:HB2	1:234:A:PRO:HB3	1	0.14
(3,1898)	1:230:A:ASP:HB3	1:234:A:PRO:HB2	1	0.14
(3,1898)	1:230:A:ASP:HB3	1:234:A:PRO:HB3	1	0.14
(3,1877)	1:229:A:ILE:HB	1:237:A:ALA:H	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB2	4	0.14
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB3	4	0.14
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB2	4	0.14
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB3	4	0.14
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB2	4	0.14
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB3	4	0.14
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB2	10	0.14
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB3	10	0.14
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB2	10	0.14
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB3	10	0.14
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB2	10	0.14
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB3	10	0.14
(3,1849)	1:228:A:ASN:HB2	2:505:B:BB9:HB	6	0.14
(3,1701)	1:219:A:TYR:HB2	1:237:A:ALA:HB1	3	0.14
(3,1701)	1:219:A:TYR:HB2	1:237:A:ALA:HB2	3	0.14
(3,1701)	1:219:A:TYR:HB2	1:237:A:ALA:HB3	3	0.14
(3,1701)	1:219:A:TYR:HB3	1:237:A:ALA:HB1	3	0.14
(3,1701)	1:219:A:TYR:HB3	1:237:A:ALA:HB2	3	0.14
(3,1701)	1:219:A:TYR:HB3	1:237:A:ALA:HB3	3	0.14
(3,1681)	1:218:A:MET:HA	1:221:A:SER:HA	4	0.14
(3,1681)	1:218:A:MET:HA	1:221:A:SER:HA	10	0.14
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE1	4	0.14
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE2	4	0.14
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE3	4	0.14
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE1	4	0.14
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE2	4	0.14
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE3	4	0.14
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE1	10	0.14
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE2	10	0.14
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE3	10	0.14
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE1	10	0.14
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE2	10	0.14
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE3	10	0.14
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB2	2	0.14
(3,1391)	1:191:A:ASP:H	1:194:A:GLU:HB3	2	0.14
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB1	4	0.14
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB2	4	0.14
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB3	4	0.14
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB1	10	0.14
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB2	10	0.14
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB3	10	0.14
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB2	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB3	5	0.14
(3,1221)	1:179:A:ASP:H	1:182:A:GLU:H	1	0.14
(3,1221)	1:179:A:ASP:H	1:182:A:GLU:H	8	0.14
(3,1158)	1:177:A:LEU:HD11	1:188:A:GLY:HA2	7	0.14
(3,1158)	1:177:A:LEU:HD12	1:188:A:GLY:HA2	7	0.14
(3,1158)	1:177:A:LEU:HD13	1:188:A:GLY:HA2	7	0.14
(3,1099)	1:175:A:VAL:HG11	1:233:A:LYS:HG3	7	0.14
(3,1099)	1:175:A:VAL:HG12	1:233:A:LYS:HG3	7	0.14
(3,1099)	1:175:A:VAL:HG13	1:233:A:LYS:HG3	7	0.14
(3,1087)	1:175:A:VAL:HG21	1:179:A:ASP:HB3	7	0.14
(3,1087)	1:175:A:VAL:HG22	1:179:A:ASP:HB3	7	0.14
(3,1087)	1:175:A:VAL:HG23	1:179:A:ASP:HB3	7	0.14
(3,1031)	1:174:A:PHE:HA	1:178:A:MET:HG2	5	0.14
(3,1031)	1:174:A:PHE:HA	1:178:A:MET:HG3	5	0.14
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG21	1	0.14
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG22	1	0.14
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG23	1	0.14
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG21	1	0.14
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG22	1	0.14
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG23	1	0.14
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG21	1	0.14
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG22	1	0.14
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG23	1	0.14
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG21	1	0.14
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG22	1	0.14
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG23	1	0.14
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG21	1	0.14
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG22	1	0.14
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG23	1	0.14
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG21	1	0.14
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG22	1	0.14
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG23	1	0.14
(3,917)	1:170:A:LEU:HD11	1:195:A:ASP:H	7	0.14
(3,917)	1:170:A:LEU:HD12	1:195:A:ASP:H	7	0.14
(3,917)	1:170:A:LEU:HD13	1:195:A:ASP:H	7	0.14
(3,917)	1:170:A:LEU:HD21	1:195:A:ASP:H	7	0.14
(3,917)	1:170:A:LEU:HD22	1:195:A:ASP:H	7	0.14
(3,917)	1:170:A:LEU:HD23	1:195:A:ASP:H	7	0.14
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD11	6	0.14
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD12	6	0.14
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD13	6	0.14
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD21	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD22	6	0.14
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD23	6	0.14
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD11	6	0.14
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD12	6	0.14
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD13	6	0.14
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD21	6	0.14
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD22	6	0.14
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD23	6	0.14
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD2	6	0.14
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD3	6	0.14
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD2	6	0.14
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD3	6	0.14
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD2	6	0.14
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD3	6	0.14
(3,651)	1:155:A:TYR:HE1	1:163:A:ILE:HG21	7	0.14
(3,651)	1:155:A:TYR:HE1	1:163:A:ILE:HG22	7	0.14
(3,651)	1:155:A:TYR:HE1	1:163:A:ILE:HG23	7	0.14
(3,651)	1:155:A:TYR:HE2	1:163:A:ILE:HG21	7	0.14
(3,651)	1:155:A:TYR:HE2	1:163:A:ILE:HG22	7	0.14
(3,651)	1:155:A:TYR:HE2	1:163:A:ILE:HG23	7	0.14
(3,598)	1:151:A:LYS:HD2	1:152:A:THR:HA	5	0.14
(3,598)	1:151:A:LYS:HD3	1:152:A:THR:HA	5	0.14
(3,549)	1:147:A:GLN:HE21	1:206:A:ASP:H	2	0.14
(3,549)	1:147:A:GLN:HE22	1:206:A:ASP:H	2	0.14
(3,508)	1:145:A:TYR:HE1	1:146:A:ARG:HG2	2	0.14
(3,508)	1:145:A:TYR:HE1	1:146:A:ARG:HG3	2	0.14
(3,508)	1:145:A:TYR:HE2	1:146:A:ARG:HG2	2	0.14
(3,508)	1:145:A:TYR:HE2	1:146:A:ARG:HG3	2	0.14
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB2	4	0.14
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB3	4	0.14
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB2	9	0.14
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB3	9	0.14
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB2	10	0.14
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB3	10	0.14
(3,451)	1:139:A:TRP:HZ3	2:504:B:DBU:HB	5	0.14
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD1	1	0.14
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD2	1	0.14
(3,444)	1:139:A:TRP:HZ2	1:225:A:PHE:HE1	5	0.14
(3,444)	1:139:A:TRP:HZ2	1:225:A:PHE:HE2	5	0.14
(3,393)	1:135:A:VAL:HG21	2:503:B:THR:HB	3	0.14
(3,393)	1:135:A:VAL:HG22	2:503:B:THR:HB	3	0.14
(3,393)	1:135:A:VAL:HG23	2:503:B:THR:HB	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,389)	1:135:A:VAL:HG21	2:502:B:BB9:HB	1	0.14
(3,389)	1:135:A:VAL:HG22	2:502:B:BB9:HB	1	0.14
(3,389)	1:135:A:VAL:HG23	2:502:B:BB9:HB	1	0.14
(3,287)	1:128:A:PRO:HA	1:132:A:GLU:HA	6	0.14
(3,287)	1:128:A:PRO:HA	1:132:A:GLU:HA	9	0.14
(3,286)	1:128:A:PRO:HA	1:131:A:TYR:HE1	2	0.14
(3,286)	1:128:A:PRO:HA	1:131:A:TYR:HE2	2	0.14
(3,249)	1:125:A:ASP:HB2	1:227:A:ARG:HD2	2	0.14
(3,249)	1:125:A:ASP:HB2	1:227:A:ARG:HD3	2	0.14
(3,249)	1:125:A:ASP:HB3	1:227:A:ARG:HD2	2	0.14
(3,249)	1:125:A:ASP:HB3	1:227:A:ARG:HD3	2	0.14
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD1	4	0.14
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD2	4	0.14
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD1	4	0.14
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD2	4	0.14
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD1	10	0.14
(3,121)	1:117:A:GLU:HG2	1:120:A:PHE:HD2	10	0.14
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD1	10	0.14
(3,121)	1:117:A:GLU:HG3	1:120:A:PHE:HD2	10	0.14
(3,81)	1:115:A:THR:H	1:115:A:THR:HG21	3	0.14
(3,81)	1:115:A:THR:H	1:115:A:THR:HG22	3	0.14
(3,81)	1:115:A:THR:H	1:115:A:THR:HG23	3	0.14
(3,34)	1:112:A:ILE:HB	1:160:A:TRP:HE1	8	0.14
(2,38)	1:177:A:LEU:HD21	1:188:A:GLY:HA3	1	0.14
(2,38)	1:177:A:LEU:HD22	1:188:A:GLY:HA3	1	0.14
(2,38)	1:177:A:LEU:HD23	1:188:A:GLY:HA3	1	0.14
(2,38)	1:177:A:LEU:HD21	1:188:A:GLY:HA3	9	0.14
(2,38)	1:177:A:LEU:HD22	1:188:A:GLY:HA3	9	0.14
(2,38)	1:177:A:LEU:HD23	1:188:A:GLY:HA3	9	0.14
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD11	9	0.14
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD12	9	0.14
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD13	9	0.14
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD11	9	0.14
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD12	9	0.14
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD13	9	0.14
(2,20)	1:132:A:GLU:HA	2:503:B:THR:HA	1	0.14
(2,14)	1:114:A:LEU:HD11	1:157:A:LYS:HA	2	0.14
(2,14)	1:114:A:LEU:HD12	1:157:A:LYS:HA	2	0.14
(2,14)	1:114:A:LEU:HD13	1:157:A:LYS:HA	2	0.14
(2,14)	1:114:A:LEU:HD11	1:157:A:LYS:HA	3	0.14
(2,14)	1:114:A:LEU:HD12	1:157:A:LYS:HA	3	0.14
(2,14)	1:114:A:LEU:HD13	1:157:A:LYS:HA	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,96)	1:224:A:ARG:O	1:228:A:ASN:H	4	0.14
(1,96)	1:224:A:ARG:O	1:228:A:ASN:H	10	0.14
(3,2205)	2:504:B:DBU:HB	2:509:B:BB9:HB	1	0.13
(3,2205)	2:504:B:DBU:HB	2:509:B:BB9:HB	8	0.13
(3,2205)	2:504:B:DBU:HB	2:509:B:BB9:HB	9	0.13
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB2	6	0.13
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB3	6	0.13
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB2	6	0.13
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB3	6	0.13
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB2	6	0.13
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB3	6	0.13
(3,2060)	1:242:A:ASP:HB2	1:246:A:ALA:H	4	0.13
(3,2060)	1:242:A:ASP:HB3	1:246:A:ALA:H	4	0.13
(3,2060)	1:242:A:ASP:HB2	1:246:A:ALA:H	10	0.13
(3,2060)	1:242:A:ASP:HB3	1:246:A:ALA:H	10	0.13
(3,2049)	1:241:A:ARG:HD2	1:245:A:LEU:HA	2	0.13
(3,2049)	1:241:A:ARG:HD3	1:245:A:LEU:HA	2	0.13
(3,1936)	1:233:A:LYS:HD2	1:236:A:LEU:HA	9	0.13
(3,1936)	1:233:A:LYS:HD3	1:236:A:LEU:HA	9	0.13
(3,1848)	1:228:A:ASN:HB3	2:505:B:BB9:HB	2	0.13
(3,1742)	1:222:A:ASP:HA	1:225:A:PHE:HD1	7	0.13
(3,1742)	1:222:A:ASP:HA	1:225:A:PHE:HD2	7	0.13
(3,1724)	1:220:A:VAL:H	1:237:A:ALA:HB1	7	0.13
(3,1724)	1:220:A:VAL:H	1:237:A:ALA:HB2	7	0.13
(3,1724)	1:220:A:VAL:H	1:237:A:ALA:HB3	7	0.13
(3,1684)	1:218:A:MET:HE1	2:509:B:BB9:HB	5	0.13
(3,1684)	1:218:A:MET:HE2	2:509:B:BB9:HB	5	0.13
(3,1684)	1:218:A:MET:HE3	2:509:B:BB9:HB	5	0.13
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE1	6	0.13
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE2	6	0.13
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE3	6	0.13
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE1	6	0.13
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE2	6	0.13
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE3	6	0.13
(3,1658)	1:215:A:LEU:HG	2:508:B:CYS:HB3	4	0.13
(3,1658)	1:215:A:LEU:HG	2:508:B:CYS:HB3	10	0.13
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB2	6	0.13
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB3	6	0.13
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB2	6	0.13
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB3	6	0.13
(3,1588)	1:209:A:TYR:HE1	1:248:A:ALA:HB1	7	0.13
(3,1588)	1:209:A:TYR:HE1	1:248:A:ALA:HB2	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1588)	1:209:A:TYR:HE1	1:248:A:ALA:HB3	7	0.13
(3,1588)	1:209:A:TYR:HE2	1:248:A:ALA:HB1	7	0.13
(3,1588)	1:209:A:TYR:HE2	1:248:A:ALA:HB2	7	0.13
(3,1588)	1:209:A:TYR:HE2	1:248:A:ALA:HB3	7	0.13
(3,1563)	1:205:A:TYR:HD1	2:508:B:CYS:HB3	4	0.13
(3,1563)	1:205:A:TYR:HD2	2:508:B:CYS:HB3	4	0.13
(3,1563)	1:205:A:TYR:HD1	2:508:B:CYS:HB3	10	0.13
(3,1563)	1:205:A:TYR:HD2	2:508:B:CYS:HB3	10	0.13
(3,1532)	1:201:A:ALA:H	1:206:A:ASP:HA	8	0.13
(3,1518)	1:200:A:ILE:HG21	2:508:B:CYS:HA	7	0.13
(3,1518)	1:200:A:ILE:HG22	2:508:B:CYS:HA	7	0.13
(3,1518)	1:200:A:ILE:HG23	2:508:B:CYS:HA	7	0.13
(3,1507)	1:200:A:ILE:HG12	1:205:A:TYR:H	5	0.13
(3,1507)	1:200:A:ILE:HG13	1:205:A:TYR:H	5	0.13
(3,1376)	1:190:A:MET:HB2	1:247:A:ASN:H	8	0.13
(3,1376)	1:190:A:MET:HB3	1:247:A:ASN:H	8	0.13
(3,1326)	1:187:A:GLU:HB2	1:189:A:ALA:H	5	0.13
(3,1326)	1:187:A:GLU:HB3	1:189:A:ALA:H	5	0.13
(3,1312)	1:186:A:SER:HA	1:187:A:GLU:HB2	6	0.13
(3,1312)	1:186:A:SER:HA	1:187:A:GLU:HB3	6	0.13
(3,1199)	1:178:A:MET:HE1	1:236:A:LEU:HG	2	0.13
(3,1199)	1:178:A:MET:HE2	1:236:A:LEU:HG	2	0.13
(3,1199)	1:178:A:MET:HE3	1:236:A:LEU:HG	2	0.13
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB1	8	0.13
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB2	8	0.13
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB3	8	0.13
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB1	8	0.13
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB2	8	0.13
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB3	8	0.13
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB1	9	0.13
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB2	9	0.13
(3,1190)	1:178:A:MET:HG2	1:189:A:ALA:HB3	9	0.13
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB1	9	0.13
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB2	9	0.13
(3,1190)	1:178:A:MET:HG3	1:189:A:ALA:HB3	9	0.13
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG2	5	0.13
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG3	5	0.13
(3,1098)	1:175:A:VAL:HG11	1:233:A:LYS:HA	1	0.13
(3,1098)	1:175:A:VAL:HG12	1:233:A:LYS:HA	1	0.13
(3,1098)	1:175:A:VAL:HG13	1:233:A:LYS:HA	1	0.13
(3,1089)	1:175:A:VAL:HG11	1:232:A:ALA:HB1	9	0.13
(3,1089)	1:175:A:VAL:HG12	1:232:A:ALA:HB1	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1089)	1:175:A:VAL:HG13	1:232:A:ALA:HB1	9	0.13
(3,1031)	1:174:A:PHE:HA	1:178:A:MET:HG2	8	0.13
(3,1031)	1:174:A:PHE:HA	1:178:A:MET:HG3	8	0.13
(3,933)	1:171:A:THR:H	1:172:A:ARG:HA	5	0.13
(3,917)	1:170:A:LEU:HD11	1:195:A:ASP:H	4	0.13
(3,917)	1:170:A:LEU:HD12	1:195:A:ASP:H	4	0.13
(3,917)	1:170:A:LEU:HD13	1:195:A:ASP:H	4	0.13
(3,917)	1:170:A:LEU:HD21	1:195:A:ASP:H	4	0.13
(3,917)	1:170:A:LEU:HD22	1:195:A:ASP:H	4	0.13
(3,917)	1:170:A:LEU:HD23	1:195:A:ASP:H	4	0.13
(3,917)	1:170:A:LEU:HD11	1:195:A:ASP:H	10	0.13
(3,917)	1:170:A:LEU:HD12	1:195:A:ASP:H	10	0.13
(3,917)	1:170:A:LEU:HD13	1:195:A:ASP:H	10	0.13
(3,917)	1:170:A:LEU:HD21	1:195:A:ASP:H	10	0.13
(3,917)	1:170:A:LEU:HD22	1:195:A:ASP:H	10	0.13
(3,917)	1:170:A:LEU:HD23	1:195:A:ASP:H	10	0.13
(3,824)	1:166:A:GLU:HG2	1:167:A:ALA:HA	9	0.13
(3,824)	1:166:A:GLU:HG3	1:167:A:ALA:HA	9	0.13
(3,751)	1:161:A:GLN:HA	1:164:A:GLN:HA	3	0.13
(3,751)	1:161:A:GLN:HA	1:164:A:GLN:HA	5	0.13
(3,607)	1:151:A:LYS:HE2	1:202:A:ARG:HA	9	0.13
(3,607)	1:151:A:LYS:HE3	1:202:A:ARG:HA	9	0.13
(3,598)	1:151:A:LYS:HD2	1:152:A:THR:HA	1	0.13
(3,598)	1:151:A:LYS:HD3	1:152:A:THR:HA	1	0.13
(3,598)	1:151:A:LYS:HD2	1:152:A:THR:HA	2	0.13
(3,598)	1:151:A:LYS:HD3	1:152:A:THR:HA	2	0.13
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB1	1	0.13
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB2	1	0.13
(3,589)	1:150:A:GLU:HG2	1:153:A:ALA:HB3	1	0.13
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB1	1	0.13
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB2	1	0.13
(3,589)	1:150:A:GLU:HG3	1:153:A:ALA:HB3	1	0.13
(3,567)	1:148:A:SER:HB2	1:205:A:TYR:HE1	1	0.13
(3,567)	1:148:A:SER:HB2	1:205:A:TYR:HE2	1	0.13
(3,567)	1:148:A:SER:HB3	1:205:A:TYR:HE1	1	0.13
(3,567)	1:148:A:SER:HB3	1:205:A:TYR:HE2	1	0.13
(3,536)	1:147:A:GLN:HB2	1:148:A:SER:HB2	2	0.13
(3,536)	1:147:A:GLN:HB2	1:148:A:SER:HB3	2	0.13
(3,536)	1:147:A:GLN:HB3	1:148:A:SER:HB2	2	0.13
(3,536)	1:147:A:GLN:HB3	1:148:A:SER:HB3	2	0.13
(3,536)	1:147:A:GLN:HB2	1:148:A:SER:HB2	7	0.13
(3,536)	1:147:A:GLN:HB2	1:148:A:SER:HB3	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,536)	1:147:A:GLN:HB3	1:148:A:SER:HB2	7	0.13
(3,536)	1:147:A:GLN:HB3	1:148:A:SER:HB3	7	0.13
(3,516)	1:145:A:TYR:HA	2:501:B:SER:HB3	7	0.13
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB2	3	0.13
(3,498)	1:144:A:ALA:H	1:205:A:TYR:HB3	3	0.13
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD1	5	0.13
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD2	5	0.13
(3,430)	1:138:A:ARG:HG2	1:139:A:TRP:HZ2	1	0.13
(3,430)	1:138:A:ARG:HG3	1:139:A:TRP:HZ2	1	0.13
(3,364)	1:135:A:VAL:H	1:136:A:ARG:HA	6	0.13
(3,350)	1:133:A:GLU:HB2	1:135:A:VAL:H	3	0.13
(3,350)	1:133:A:GLU:HB3	1:135:A:VAL:H	3	0.13
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG2	2	0.13
(3,309)	1:130:A:GLN:HG2	1:133:A:GLU:HG3	2	0.13
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG2	2	0.13
(3,309)	1:130:A:GLN:HG3	1:133:A:GLU:HG3	2	0.13
(3,287)	1:128:A:PRO:HA	1:132:A:GLU:HA	5	0.13
(3,287)	1:128:A:PRO:HA	1:132:A:GLU:HA	7	0.13
(3,286)	1:128:A:PRO:HA	1:131:A:TYR:HE1	1	0.13
(3,286)	1:128:A:PRO:HA	1:131:A:TYR:HE2	1	0.13
(3,249)	1:125:A:ASP:HB2	1:227:A:ARG:HD2	1	0.13
(3,249)	1:125:A:ASP:HB2	1:227:A:ARG:HD3	1	0.13
(3,249)	1:125:A:ASP:HB3	1:227:A:ARG:HD2	1	0.13
(3,249)	1:125:A:ASP:HB3	1:227:A:ARG:HD3	1	0.13
(3,249)	1:125:A:ASP:HB2	1:227:A:ARG:HD2	3	0.13
(3,249)	1:125:A:ASP:HB2	1:227:A:ARG:HD3	3	0.13
(3,249)	1:125:A:ASP:HB3	1:227:A:ARG:HD2	3	0.13
(3,249)	1:125:A:ASP:HB3	1:227:A:ARG:HD3	3	0.13
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA2	6	0.13
(3,225)	1:123:A:PHE:HD1	1:124:A:GLY:HA3	6	0.13
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA2	6	0.13
(3,225)	1:123:A:PHE:HD2	1:124:A:GLY:HA3	6	0.13
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE1	6	0.13
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE2	6	0.13
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE1	6	0.13
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE2	6	0.13
(3,131)	1:118:A:GLU:HG2	1:157:A:LYS:HD2	4	0.13
(3,131)	1:118:A:GLU:HG2	1:157:A:LYS:HD3	4	0.13
(3,131)	1:118:A:GLU:HG3	1:157:A:LYS:HD2	4	0.13
(3,131)	1:118:A:GLU:HG3	1:157:A:LYS:HD3	4	0.13
(3,131)	1:118:A:GLU:HG2	1:157:A:LYS:HD2	10	0.13
(3,131)	1:118:A:GLU:HG2	1:157:A:LYS:HD3	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,131)	1:118:A:GLU:HG3	1:157:A:LYS:HD2	10	0.13
(3,131)	1:118:A:GLU:HG3	1:157:A:LYS:HD3	10	0.13
(3,94)	1:115:A:THR:HG21	1:117:A:GLU:HG2	1	0.13
(3,94)	1:115:A:THR:HG21	1:117:A:GLU:HG3	1	0.13
(3,94)	1:115:A:THR:HG22	1:117:A:GLU:HG2	1	0.13
(3,94)	1:115:A:THR:HG22	1:117:A:GLU:HG3	1	0.13
(3,94)	1:115:A:THR:HG23	1:117:A:GLU:HG2	1	0.13
(3,94)	1:115:A:THR:HG23	1:117:A:GLU:HG3	1	0.13
(3,34)	1:112:A:ILE:HB	1:160:A:TRP:HE1	9	0.13
(2,38)	1:177:A:LEU:HD21	1:188:A:GLY:HA3	7	0.13
(2,38)	1:177:A:LEU:HD22	1:188:A:GLY:HA3	7	0.13
(2,38)	1:177:A:LEU:HD23	1:188:A:GLY:HA3	7	0.13
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD11	2	0.13
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD12	2	0.13
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD13	2	0.13
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD11	2	0.13
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD12	2	0.13
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD13	2	0.13
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD11	5	0.13
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD12	5	0.13
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD13	5	0.13
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD11	5	0.13
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD12	5	0.13
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD13	5	0.13
(2,29)	1:160:A:TRP:HH2	3:601:B:NO1:HZ3	6	0.13
(2,29)	1:160:A:TRP:HH2	3:601:B:NO1:HZ3	8	0.13
(2,14)	1:114:A:LEU:HD11	1:157:A:LYS:HA	4	0.13
(2,14)	1:114:A:LEU:HD12	1:157:A:LYS:HA	4	0.13
(2,14)	1:114:A:LEU:HD13	1:157:A:LYS:HA	4	0.13
(2,14)	1:114:A:LEU:HD11	1:157:A:LYS:HA	10	0.13
(2,14)	1:114:A:LEU:HD12	1:157:A:LYS:HA	10	0.13
(2,14)	1:114:A:LEU:HD13	1:157:A:LYS:HA	10	0.13
(1,124)	1:196:A:HIS:ND1	1:212:A:HIS:HE2	4	0.13
(1,124)	1:196:A:HIS:ND1	1:212:A:HIS:HE2	7	0.13
(1,124)	1:196:A:HIS:ND1	1:212:A:HIS:HE2	10	0.13
(1,96)	1:224:A:ARG:O	1:228:A:ASN:H	8	0.13
(1,86)	1:210:A:GLU:O	1:214:A:CYS:H	2	0.13
(1,64)	1:188:A:GLY:O	1:192:A:ALA:H	5	0.13
(3,2205)	2:504:B:DBU:HB	2:509:B:BB9:HB	6	0.12
(3,2155)	1:249:A:VAL:HG21	1:252:A:THR:H	4	0.12
(3,2155)	1:249:A:VAL:HG22	1:252:A:THR:H	4	0.12
(3,2155)	1:249:A:VAL:HG23	1:252:A:THR:H	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2155)	1:249:A:VAL:HG21	1:252:A:THR:H	10	0.12
(3,2155)	1:249:A:VAL:HG22	1:252:A:THR:H	10	0.12
(3,2155)	1:249:A:VAL:HG23	1:252:A:THR:H	10	0.12
(3,2079)	1:244:A:ILE:HB	1:247:A:ASN:HB2	7	0.12
(3,2079)	1:244:A:ILE:HB	1:247:A:ASN:HB3	7	0.12
(3,2002)	1:238:A:ALA:HB1	1:241:A:ARG:HD2	6	0.12
(3,2002)	1:238:A:ALA:HB1	1:241:A:ARG:HD3	6	0.12
(3,2002)	1:238:A:ALA:HB2	1:241:A:ARG:HD2	6	0.12
(3,2002)	1:238:A:ALA:HB2	1:241:A:ARG:HD3	6	0.12
(3,2002)	1:238:A:ALA:HB3	1:241:A:ARG:HD2	6	0.12
(3,2002)	1:238:A:ALA:HB3	1:241:A:ARG:HD3	6	0.12
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG2	1	0.12
(3,2000)	1:238:A:ALA:H	1:240:A:MET:HG3	1	0.12
(3,1975)	1:236:A:LEU:HA	1:239:A:TYR:HA	3	0.12
(3,1936)	1:233:A:LYS:HD2	1:236:A:LEU:HA	6	0.12
(3,1936)	1:233:A:LYS:HD3	1:236:A:LEU:HA	6	0.12
(3,1877)	1:229:A:ILE:HB	1:237:A:ALA:H	1	0.12
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB2	2	0.12
(3,1868)	1:229:A:ILE:HG21	1:233:A:LYS:HB3	2	0.12
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB2	2	0.12
(3,1868)	1:229:A:ILE:HG22	1:233:A:LYS:HB3	2	0.12
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB2	2	0.12
(3,1868)	1:229:A:ILE:HG23	1:233:A:LYS:HB3	2	0.12
(3,1773)	1:224:A:ARG:HD2	2:505:B:BB9:HB	9	0.12
(3,1773)	1:224:A:ARG:HD3	2:505:B:BB9:HB	9	0.12
(3,1708)	1:219:A:TYR:H	1:241:A:ARG:HG2	3	0.12
(3,1708)	1:219:A:TYR:H	1:241:A:ARG:HG3	3	0.12
(3,1707)	1:219:A:TYR:HE1	1:241:A:ARG:HA	1	0.12
(3,1707)	1:219:A:TYR:HE2	1:241:A:ARG:HA	1	0.12
(3,1656)	1:215:A:LEU:HD11	2:508:B:CYS:HB2	8	0.12
(3,1656)	1:215:A:LEU:HD11	2:508:B:CYS:HB3	8	0.12
(3,1656)	1:215:A:LEU:HD12	2:508:B:CYS:HB2	8	0.12
(3,1656)	1:215:A:LEU:HD12	2:508:B:CYS:HB3	8	0.12
(3,1656)	1:215:A:LEU:HD13	2:508:B:CYS:HB2	8	0.12
(3,1656)	1:215:A:LEU:HD13	2:508:B:CYS:HB3	8	0.12
(3,1652)	1:215:A:LEU:HB2	1:244:A:ILE:HG12	5	0.12
(3,1652)	1:215:A:LEU:HB2	1:244:A:ILE:HG13	5	0.12
(3,1652)	1:215:A:LEU:HB3	1:244:A:ILE:HG12	5	0.12
(3,1652)	1:215:A:LEU:HB3	1:244:A:ILE:HG13	5	0.12
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB2	4	0.12
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB3	4	0.12
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB2	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB3	4	0.12
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB2	10	0.12
(3,1641)	1:214:A:CYS:HB2	1:217:A:GLU:HB3	10	0.12
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB2	10	0.12
(3,1641)	1:214:A:CYS:HB3	1:217:A:GLU:HB3	10	0.12
(3,1631)	1:213:A:THR:HG21	1:245:A:LEU:HG	7	0.12
(3,1631)	1:213:A:THR:HG22	1:245:A:LEU:HG	7	0.12
(3,1631)	1:213:A:THR:HG23	1:245:A:LEU:HG	7	0.12
(3,1546)	1:203:A:ASN:H	1:204:A:HIS:HE1	9	0.12
(3,1532)	1:201:A:ALA:H	1:206:A:ASP:HA	7	0.12
(3,1518)	1:200:A:ILE:HG21	2:508:B:CYS:HA	3	0.12
(3,1518)	1:200:A:ILE:HG22	2:508:B:CYS:HA	3	0.12
(3,1518)	1:200:A:ILE:HG23	2:508:B:CYS:HA	3	0.12
(3,1484)	1:198:A:GLN:HA	1:202:A:ARG:HD2	1	0.12
(3,1484)	1:198:A:GLN:HA	1:202:A:ARG:HD3	1	0.12
(3,1449)	1:196:A:HIS:H	1:196:A:HIS:HD2	7	0.12
(3,1447)	1:195:A:ASP:HB2	1:198:A:GLN:HB2	3	0.12
(3,1447)	1:195:A:ASP:HB2	1:198:A:GLN:HB3	3	0.12
(3,1447)	1:195:A:ASP:HB3	1:198:A:GLN:HB2	3	0.12
(3,1447)	1:195:A:ASP:HB3	1:198:A:GLN:HB3	3	0.12
(3,1328)	1:187:A:GLU:HA	1:189:A:ALA:HB1	1	0.12
(3,1328)	1:187:A:GLU:HA	1:189:A:ALA:HB2	1	0.12
(3,1328)	1:187:A:GLU:HA	1:189:A:ALA:HB3	1	0.12
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB2	8	0.12
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB3	8	0.12
(3,1221)	1:179:A:ASP:H	1:182:A:GLU:H	5	0.12
(3,1160)	1:177:A:LEU:HD21	1:188:A:GLY:H	4	0.12
(3,1160)	1:177:A:LEU:HD22	1:188:A:GLY:H	4	0.12
(3,1160)	1:177:A:LEU:HD23	1:188:A:GLY:H	4	0.12
(3,1160)	1:177:A:LEU:HD21	1:188:A:GLY:H	10	0.12
(3,1160)	1:177:A:LEU:HD22	1:188:A:GLY:H	10	0.12
(3,1160)	1:177:A:LEU:HD23	1:188:A:GLY:H	10	0.12
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG2	8	0.12
(3,1153)	1:177:A:LEU:HA	1:182:A:GLU:HG3	8	0.12
(3,1099)	1:175:A:VAL:HG11	1:233:A:LYS:HG3	6	0.12
(3,1099)	1:175:A:VAL:HG12	1:233:A:LYS:HG3	6	0.12
(3,1099)	1:175:A:VAL:HG13	1:233:A:LYS:HG3	6	0.12
(3,1087)	1:175:A:VAL:HG21	1:179:A:ASP:HB3	3	0.12
(3,1087)	1:175:A:VAL:HG22	1:179:A:ASP:HB3	3	0.12
(3,1087)	1:175:A:VAL:HG23	1:179:A:ASP:HB3	3	0.12
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG11	8	0.12
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG12	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1016)	1:174:A:PHE:HB2	1:175:A:VAL:HG13	8	0.12
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG11	8	0.12
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG12	8	0.12
(3,1016)	1:174:A:PHE:HB3	1:175:A:VAL:HG13	8	0.12
(3,988)	1:173:A:ARG:HG2	1:174:A:PHE:HZ	1	0.12
(3,988)	1:173:A:ARG:HG3	1:174:A:PHE:HZ	1	0.12
(3,988)	1:173:A:ARG:HG2	1:174:A:PHE:HZ	3	0.12
(3,988)	1:173:A:ARG:HG3	1:174:A:PHE:HZ	3	0.12
(3,933)	1:171:A:THR:H	1:172:A:ARG:HA	3	0.12
(3,933)	1:171:A:THR:H	1:172:A:ARG:HA	4	0.12
(3,933)	1:171:A:THR:H	1:172:A:ARG:HA	10	0.12
(3,914)	1:170:A:LEU:HD11	1:195:A:ASP:HA	2	0.12
(3,914)	1:170:A:LEU:HD12	1:195:A:ASP:HA	2	0.12
(3,914)	1:170:A:LEU:HD13	1:195:A:ASP:HA	2	0.12
(3,914)	1:170:A:LEU:HD21	1:195:A:ASP:HA	2	0.12
(3,914)	1:170:A:LEU:HD22	1:195:A:ASP:HA	2	0.12
(3,914)	1:170:A:LEU:HD23	1:195:A:ASP:HA	2	0.12
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB2	3	0.12
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB3	3	0.12
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB2	3	0.12
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB3	3	0.12
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB2	3	0.12
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB3	3	0.12
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB2	3	0.12
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB3	3	0.12
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB2	3	0.12
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB3	3	0.12
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB2	3	0.12
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB3	3	0.12
(3,781)	1:163:A:ILE:HG12	1:166:A:GLU:HG2	6	0.12
(3,781)	1:163:A:ILE:HG12	1:166:A:GLU:HG3	6	0.12
(3,781)	1:163:A:ILE:HG13	1:166:A:GLU:HG2	6	0.12
(3,781)	1:163:A:ILE:HG13	1:166:A:GLU:HG3	6	0.12
(3,779)	1:163:A:ILE:HB	1:166:A:GLU:H	9	0.12
(3,751)	1:161:A:GLN:HA	1:164:A:GLN:HA	6	0.12
(3,751)	1:161:A:GLN:HA	1:164:A:GLN:HA	7	0.12
(3,741)	1:160:A:TRP:HZ2	3:601:B:NO1:HZ2	2	0.12
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD2	8	0.12
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD3	8	0.12
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD2	8	0.12
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD3	8	0.12
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD2	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD3	8	0.12
(3,541)	1:147:A:GLN:HG2	1:151:A:LYS:HD2	3	0.12
(3,541)	1:147:A:GLN:HG2	1:151:A:LYS:HD3	3	0.12
(3,541)	1:147:A:GLN:HG3	1:151:A:LYS:HD2	3	0.12
(3,541)	1:147:A:GLN:HG3	1:151:A:LYS:HD3	3	0.12
(3,451)	1:139:A:TRP:HZ3	2:504:B:DBU:HB	6	0.12
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD1	7	0.12
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD2	7	0.12
(3,372)	1:135:A:VAL:HB	1:138:A:ARG:HD2	6	0.12
(3,372)	1:135:A:VAL:HB	1:138:A:ARG:HD3	6	0.12
(3,355)	1:133:A:GLU:HG2	1:136:A:ARG:HB2	7	0.12
(3,355)	1:133:A:GLU:HG2	1:136:A:ARG:HB3	7	0.12
(3,355)	1:133:A:GLU:HG3	1:136:A:ARG:HB2	7	0.12
(3,355)	1:133:A:GLU:HG3	1:136:A:ARG:HB3	7	0.12
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG11	9	0.12
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG12	9	0.12
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG13	9	0.12
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG21	9	0.12
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG22	9	0.12
(3,351)	1:133:A:GLU:HB2	1:135:A:VAL:HG23	9	0.12
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG11	9	0.12
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG12	9	0.12
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG13	9	0.12
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG21	9	0.12
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG22	9	0.12
(3,351)	1:133:A:GLU:HB3	1:135:A:VAL:HG23	9	0.12
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG1	3	0.12
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG2	3	0.12
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG3	3	0.12
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG1	5	0.12
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG2	5	0.12
(3,331)	1:131:A:TYR:HB2	2:504:B:DBU:HG3	5	0.12
(3,287)	1:128:A:PRO:HA	1:132:A:GLU:HA	1	0.12
(3,275)	1:126:A:PHE:HE1	2:506:B:3GL:HA	7	0.12
(3,275)	1:126:A:PHE:HE2	2:506:B:3GL:HA	7	0.12
(3,275)	1:126:A:PHE:HE1	2:506:B:3GL:HA	9	0.12
(3,275)	1:126:A:PHE:HE2	2:506:B:3GL:HA	9	0.12
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE1	4	0.12
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE2	4	0.12
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE1	4	0.12
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE2	4	0.12
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE1	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,148)	1:119:A:LYS:HG2	1:126:A:PHE:HE2	10	0.12
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE1	10	0.12
(3,148)	1:119:A:LYS:HG3	1:126:A:PHE:HE2	10	0.12
(3,133)	1:118:A:GLU:HA	1:157:A:LYS:HE2	5	0.12
(3,133)	1:118:A:GLU:HA	1:157:A:LYS:HE3	5	0.12
(3,115)	1:117:A:GLU:H	1:119:A:LYS:HD2	4	0.12
(3,115)	1:117:A:GLU:H	1:119:A:LYS:HD3	4	0.12
(3,115)	1:117:A:GLU:H	1:119:A:LYS:HD2	7	0.12
(3,115)	1:117:A:GLU:H	1:119:A:LYS:HD3	7	0.12
(3,115)	1:117:A:GLU:H	1:119:A:LYS:HD2	10	0.12
(3,115)	1:117:A:GLU:H	1:119:A:LYS:HD3	10	0.12
(2,38)	1:177:A:LEU:HD21	1:188:A:GLY:HA3	6	0.12
(2,38)	1:177:A:LEU:HD22	1:188:A:GLY:HA3	6	0.12
(2,38)	1:177:A:LEU:HD23	1:188:A:GLY:HA3	6	0.12
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD11	3	0.12
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD12	3	0.12
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD13	3	0.12
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD11	3	0.12
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD12	3	0.12
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD13	3	0.12
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD11	8	0.12
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD12	8	0.12
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD13	8	0.12
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD11	8	0.12
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD12	8	0.12
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD13	8	0.12
(2,14)	1:114:A:LEU:HD11	1:157:A:LYS:HA	1	0.12
(2,14)	1:114:A:LEU:HD12	1:157:A:LYS:HA	1	0.12
(2,14)	1:114:A:LEU:HD13	1:157:A:LYS:HA	1	0.12
(1,124)	1:196:A:HIS:ND1	1:212:A:HIS:HE2	5	0.12
(1,124)	1:196:A:HIS:ND1	1:212:A:HIS:HE2	6	0.12
(1,102)	1:227:A:ARG:O	1:231:A:ALA:H	9	0.12
(1,96)	1:224:A:ARG:O	1:228:A:ASN:H	3	0.12
(1,96)	1:224:A:ARG:O	1:228:A:ASN:H	6	0.12
(1,96)	1:224:A:ARG:O	1:228:A:ASN:H	9	0.12
(1,86)	1:210:A:GLU:O	1:214:A:CYS:H	1	0.12
(3,2205)	2:504:B:DBU:HB	2:509:B:BB9:HB	5	0.11
(3,2161)	1:250:A:ARG:HB2	1:251:A:HIS:H	5	0.11
(3,2161)	1:250:A:ARG:HB3	1:251:A:HIS:H	5	0.11
(3,2141)	1:249:A:VAL:HG21	1:250:A:ARG:H	8	0.11
(3,2141)	1:249:A:VAL:HG22	1:250:A:ARG:H	8	0.11
(3,2141)	1:249:A:VAL:HG23	1:250:A:ARG:H	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2067)	1:243:A:ALA:H	1:245:A:LEU:HB2	7	0.11
(3,2067)	1:243:A:ALA:H	1:245:A:LEU:HB3	7	0.11
(3,2049)	1:241:A:ARG:HD2	1:245:A:LEU:HA	4	0.11
(3,2049)	1:241:A:ARG:HD3	1:245:A:LEU:HA	4	0.11
(3,2049)	1:241:A:ARG:HD2	1:245:A:LEU:HA	10	0.11
(3,2049)	1:241:A:ARG:HD3	1:245:A:LEU:HA	10	0.11
(3,1958)	1:236:A:LEU:HA	1:236:A:LEU:HD21	3	0.11
(3,1958)	1:236:A:LEU:HA	1:236:A:LEU:HD22	3	0.11
(3,1958)	1:236:A:LEU:HA	1:236:A:LEU:HD23	3	0.11
(3,1936)	1:233:A:LYS:HD2	1:236:A:LEU:HA	3	0.11
(3,1936)	1:233:A:LYS:HD3	1:236:A:LEU:HA	3	0.11
(3,1930)	1:233:A:LYS:HA	1:234:A:PRO:HB2	1	0.11
(3,1930)	1:233:A:LYS:HA	1:234:A:PRO:HB3	1	0.11
(3,1930)	1:233:A:LYS:HA	1:234:A:PRO:HB2	2	0.11
(3,1930)	1:233:A:LYS:HA	1:234:A:PRO:HB3	2	0.11
(3,1930)	1:233:A:LYS:HA	1:234:A:PRO:HB2	5	0.11
(3,1930)	1:233:A:LYS:HA	1:234:A:PRO:HB3	5	0.11
(3,1877)	1:229:A:ILE:HB	1:237:A:ALA:H	4	0.11
(3,1877)	1:229:A:ILE:HB	1:237:A:ALA:H	10	0.11
(3,1837)	1:227:A:ARG:HA	1:230:A:ASP:HA	3	0.11
(3,1837)	1:227:A:ARG:HA	1:230:A:ASP:HA	7	0.11
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE1	7	0.11
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE2	7	0.11
(3,1669)	1:217:A:GLU:HG2	1:218:A:MET:HE3	7	0.11
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE1	7	0.11
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE2	7	0.11
(3,1669)	1:217:A:GLU:HG3	1:218:A:MET:HE3	7	0.11
(3,1656)	1:215:A:LEU:HD11	2:508:B:CYS:HB2	6	0.11
(3,1656)	1:215:A:LEU:HD11	2:508:B:CYS:HB3	6	0.11
(3,1656)	1:215:A:LEU:HD12	2:508:B:CYS:HB2	6	0.11
(3,1656)	1:215:A:LEU:HD12	2:508:B:CYS:HB3	6	0.11
(3,1656)	1:215:A:LEU:HD13	2:508:B:CYS:HB2	6	0.11
(3,1656)	1:215:A:LEU:HD13	2:508:B:CYS:HB3	6	0.11
(3,1633)	1:213:A:THR:HG21	1:248:A:ALA:H	5	0.11
(3,1633)	1:213:A:THR:HG22	1:248:A:ALA:H	5	0.11
(3,1633)	1:213:A:THR:HG23	1:248:A:ALA:H	5	0.11
(3,1600)	1:211:A:MET:HA	1:213:A:THR:H	5	0.11
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB1	4	0.11
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB2	4	0.11
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB3	4	0.11
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB1	10	0.11
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB2	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1589)	1:209:A:TYR:H	1:248:A:ALA:HB3	10	0.11
(3,1587)	1:209:A:TYR:HD1	1:248:A:ALA:H	6	0.11
(3,1587)	1:209:A:TYR:HD2	1:248:A:ALA:H	6	0.11
(3,1587)	1:209:A:TYR:HD1	1:248:A:ALA:H	9	0.11
(3,1587)	1:209:A:TYR:HD2	1:248:A:ALA:H	9	0.11
(3,1544)	1:202:A:ARG:HH11	1:204:A:HIS:H	2	0.11
(3,1544)	1:202:A:ARG:HH12	1:204:A:HIS:H	2	0.11
(3,1518)	1:200:A:ILE:HG21	2:508:B:CYS:HA	1	0.11
(3,1518)	1:200:A:ILE:HG22	2:508:B:CYS:HA	1	0.11
(3,1518)	1:200:A:ILE:HG23	2:508:B:CYS:HA	1	0.11
(3,1516)	1:200:A:ILE:HG12	2:507:B:BB9:HB	9	0.11
(3,1516)	1:200:A:ILE:HG13	2:507:B:BB9:HB	9	0.11
(3,1476)	1:197:A:ARG:HG2	1:251:A:HIS:HD2	2	0.11
(3,1476)	1:197:A:ARG:HG3	1:251:A:HIS:HD2	2	0.11
(3,1451)	1:196:A:HIS:H	1:197:A:ARG:HB2	1	0.11
(3,1451)	1:196:A:HIS:H	1:197:A:ARG:HB3	1	0.11
(3,1312)	1:186:A:SER:HA	1:187:A:GLU:HB2	7	0.11
(3,1312)	1:186:A:SER:HA	1:187:A:GLU:HB3	7	0.11
(3,1307)	1:186:A:SER:H	1:187:A:GLU:H	3	0.11
(3,1307)	1:186:A:SER:H	1:187:A:GLU:H	9	0.11
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB1	6	0.11
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB2	6	0.11
(3,1291)	1:184:A:ALA:H	1:243:A:ALA:HB3	6	0.11
(3,1270)	1:183:A:PRO:HA	1:239:A:TYR:HD1	6	0.11
(3,1270)	1:183:A:PRO:HA	1:239:A:TYR:HD2	6	0.11
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB2	3	0.11
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB3	3	0.11
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB2	4	0.11
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB3	4	0.11
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB2	10	0.11
(3,1236)	1:180:A:ALA:HA	1:182:A:GLU:HB3	10	0.11
(3,1199)	1:178:A:MET:HE1	1:236:A:LEU:HG	1	0.11
(3,1199)	1:178:A:MET:HE2	1:236:A:LEU:HG	1	0.11
(3,1199)	1:178:A:MET:HE3	1:236:A:LEU:HG	1	0.11
(3,1173)	1:177:A:LEU:HB2	1:239:A:TYR:HE1	1	0.11
(3,1173)	1:177:A:LEU:HB2	1:239:A:TYR:HE2	1	0.11
(3,1173)	1:177:A:LEU:HB3	1:239:A:TYR:HE1	1	0.11
(3,1173)	1:177:A:LEU:HB3	1:239:A:TYR:HE2	1	0.11
(3,1160)	1:177:A:LEU:HD21	1:188:A:GLY:H	5	0.11
(3,1160)	1:177:A:LEU:HD22	1:188:A:GLY:H	5	0.11
(3,1160)	1:177:A:LEU:HD23	1:188:A:GLY:H	5	0.11
(3,1158)	1:177:A:LEU:HD11	1:188:A:GLY:HA2	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1158)	1:177:A:LEU:HD12	1:188:A:GLY:HA2	4	0.11
(3,1158)	1:177:A:LEU:HD13	1:188:A:GLY:HA2	4	0.11
(3,1158)	1:177:A:LEU:HD11	1:188:A:GLY:HA2	10	0.11
(3,1158)	1:177:A:LEU:HD12	1:188:A:GLY:HA2	10	0.11
(3,1158)	1:177:A:LEU:HD13	1:188:A:GLY:HA2	10	0.11
(3,1087)	1:175:A:VAL:HG21	1:179:A:ASP:HB3	2	0.11
(3,1087)	1:175:A:VAL:HG22	1:179:A:ASP:HB3	2	0.11
(3,1087)	1:175:A:VAL:HG23	1:179:A:ASP:HB3	2	0.11
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB1	4	0.11
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB2	4	0.11
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB3	4	0.11
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB1	10	0.11
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB2	10	0.11
(3,1057)	1:174:A:PHE:HZ	1:243:A:ALA:HB3	10	0.11
(3,1031)	1:174:A:PHE:HA	1:178:A:MET:HG2	3	0.11
(3,1031)	1:174:A:PHE:HA	1:178:A:MET:HG3	3	0.11
(3,1031)	1:174:A:PHE:HA	1:178:A:MET:HG2	9	0.11
(3,1031)	1:174:A:PHE:HA	1:178:A:MET:HG3	9	0.11
(3,974)	1:172:A:ARG:HB2	1:175:A:VAL:HG11	5	0.11
(3,974)	1:172:A:ARG:HB2	1:175:A:VAL:HG12	5	0.11
(3,974)	1:172:A:ARG:HB2	1:175:A:VAL:HG13	5	0.11
(3,974)	1:172:A:ARG:HB3	1:175:A:VAL:HG11	5	0.11
(3,974)	1:172:A:ARG:HB3	1:175:A:VAL:HG12	5	0.11
(3,974)	1:172:A:ARG:HB3	1:175:A:VAL:HG13	5	0.11
(3,933)	1:171:A:THR:H	1:172:A:ARG:HA	1	0.11
(3,933)	1:171:A:THR:H	1:172:A:ARG:HA	8	0.11
(3,917)	1:170:A:LEU:HD11	1:195:A:ASP:H	5	0.11
(3,917)	1:170:A:LEU:HD12	1:195:A:ASP:H	5	0.11
(3,917)	1:170:A:LEU:HD13	1:195:A:ASP:H	5	0.11
(3,917)	1:170:A:LEU:HD21	1:195:A:ASP:H	5	0.11
(3,917)	1:170:A:LEU:HD22	1:195:A:ASP:H	5	0.11
(3,917)	1:170:A:LEU:HD23	1:195:A:ASP:H	5	0.11
(3,917)	1:170:A:LEU:HD11	1:195:A:ASP:H	8	0.11
(3,917)	1:170:A:LEU:HD12	1:195:A:ASP:H	8	0.11
(3,917)	1:170:A:LEU:HD13	1:195:A:ASP:H	8	0.11
(3,917)	1:170:A:LEU:HD21	1:195:A:ASP:H	8	0.11
(3,917)	1:170:A:LEU:HD22	1:195:A:ASP:H	8	0.11
(3,917)	1:170:A:LEU:HD23	1:195:A:ASP:H	8	0.11
(3,917)	1:170:A:LEU:HD11	1:195:A:ASP:H	9	0.11
(3,917)	1:170:A:LEU:HD12	1:195:A:ASP:H	9	0.11
(3,917)	1:170:A:LEU:HD13	1:195:A:ASP:H	9	0.11
(3,917)	1:170:A:LEU:HD21	1:195:A:ASP:H	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,917)	1:170:A:LEU:HD22	1:195:A:ASP:H	9	0.11
(3,917)	1:170:A:LEU:HD23	1:195:A:ASP:H	9	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB2	1	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB3	1	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB2	1	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB3	1	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB2	1	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB3	1	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB2	1	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB3	1	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB2	1	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB3	1	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB2	1	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB3	1	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB2	4	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB3	4	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB2	4	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB3	4	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB2	4	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB3	4	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB2	4	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB3	4	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB2	4	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB3	4	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB2	4	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB3	4	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB2	6	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB3	6	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB2	6	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB3	6	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB2	6	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB3	6	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB2	6	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB3	6	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB2	6	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB3	6	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB2	6	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB3	6	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB2	7	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB3	7	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB2	7	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB3	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB2	7	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB3	7	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB2	7	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB3	7	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB2	7	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB3	7	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB2	7	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB3	7	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB2	9	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB3	9	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB2	9	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB3	9	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB2	9	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB3	9	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB2	9	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB3	9	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB2	9	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB3	9	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB2	9	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB3	9	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB2	10	0.11
(3,894)	1:170:A:LEU:HD11	1:173:A:ARG:HB3	10	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB2	10	0.11
(3,894)	1:170:A:LEU:HD12	1:173:A:ARG:HB3	10	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB2	10	0.11
(3,894)	1:170:A:LEU:HD13	1:173:A:ARG:HB3	10	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB2	10	0.11
(3,894)	1:170:A:LEU:HD21	1:173:A:ARG:HB3	10	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB2	10	0.11
(3,894)	1:170:A:LEU:HD22	1:173:A:ARG:HB3	10	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB2	10	0.11
(3,894)	1:170:A:LEU:HD23	1:173:A:ARG:HB3	10	0.11
(3,873)	1:169:A:GLU:H	1:172:A:ARG:HB2	2	0.11
(3,873)	1:169:A:GLU:H	1:172:A:ARG:HB3	2	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD11	7	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD12	7	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD13	7	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD21	7	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD22	7	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD23	7	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD11	8	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD12	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD13	8	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD21	8	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD22	8	0.11
(3,852)	1:168:A:ASP:HA	1:170:A:LEU:HD23	8	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD11	4	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD12	4	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD13	4	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD21	4	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD22	4	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD23	4	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD11	4	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD12	4	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD13	4	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD21	4	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD22	4	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD23	4	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD11	7	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD12	7	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD13	7	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD21	7	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD22	7	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD23	7	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD11	7	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD12	7	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD13	7	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD21	7	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD22	7	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD23	7	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD11	8	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD12	8	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD13	8	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD21	8	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD22	8	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD23	8	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD11	8	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD12	8	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD13	8	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD21	8	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD22	8	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD23	8	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD11	10	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD12	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD13	10	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD21	10	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD22	10	0.11
(3,832)	1:166:A:GLU:HB2	1:170:A:LEU:HD23	10	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD11	10	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD12	10	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD13	10	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD21	10	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD22	10	0.11
(3,832)	1:166:A:GLU:HB3	1:170:A:LEU:HD23	10	0.11
(3,779)	1:163:A:ILE:HB	1:166:A:GLU:H	2	0.11
(3,779)	1:163:A:ILE:HB	1:166:A:GLU:H	5	0.11
(3,741)	1:160:A:TRP:HZ2	3:601:B:NO1:HZ2	1	0.11
(3,732)	1:160:A:TRP:H	1:163:A:ILE:HB	4	0.11
(3,689)	1:157:A:LYS:HG2	1:161:A:GLN:HG2	5	0.11
(3,689)	1:157:A:LYS:HG2	1:161:A:GLN:HG3	5	0.11
(3,689)	1:157:A:LYS:HG3	1:161:A:GLN:HG2	5	0.11
(3,689)	1:157:A:LYS:HG3	1:161:A:GLN:HG3	5	0.11
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD2	2	0.11
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD3	2	0.11
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD2	2	0.11
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD3	2	0.11
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD2	2	0.11
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD3	2	0.11
(3,607)	1:151:A:LYS:HE2	1:202:A:ARG:HA	8	0.11
(3,607)	1:151:A:LYS:HE3	1:202:A:ARG:HA	8	0.11
(3,516)	1:145:A:TYR:HA	2:501:B:SER:HB3	8	0.11
(3,508)	1:145:A:TYR:HE1	1:146:A:ARG:HG2	4	0.11
(3,508)	1:145:A:TYR:HE1	1:146:A:ARG:HG3	4	0.11
(3,508)	1:145:A:TYR:HE2	1:146:A:ARG:HG2	4	0.11
(3,508)	1:145:A:TYR:HE2	1:146:A:ARG:HG3	4	0.11
(3,508)	1:145:A:TYR:HE1	1:146:A:ARG:HG2	9	0.11
(3,508)	1:145:A:TYR:HE1	1:146:A:ARG:HG3	9	0.11
(3,508)	1:145:A:TYR:HE2	1:146:A:ARG:HG2	9	0.11
(3,508)	1:145:A:TYR:HE2	1:146:A:ARG:HG3	9	0.11
(3,508)	1:145:A:TYR:HE1	1:146:A:ARG:HG2	10	0.11
(3,508)	1:145:A:TYR:HE1	1:146:A:ARG:HG3	10	0.11
(3,508)	1:145:A:TYR:HE2	1:146:A:ARG:HG2	10	0.11
(3,508)	1:145:A:TYR:HE2	1:146:A:ARG:HG3	10	0.11
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD1	4	0.11
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD2	4	0.11
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD1	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,445)	1:139:A:TRP:HH2	1:225:A:PHE:HD2	10	0.11
(3,444)	1:139:A:TRP:HZ2	1:225:A:PHE:HE1	2	0.11
(3,444)	1:139:A:TRP:HZ2	1:225:A:PHE:HE2	2	0.11
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG21	6	0.11
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG22	6	0.11
(3,381)	1:135:A:VAL:HG21	1:142:A:THR:HG23	6	0.11
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG21	6	0.11
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG22	6	0.11
(3,381)	1:135:A:VAL:HG22	1:142:A:THR:HG23	6	0.11
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG21	6	0.11
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG22	6	0.11
(3,381)	1:135:A:VAL:HG23	1:142:A:THR:HG23	6	0.11
(3,380)	1:135:A:VAL:HG11	1:142:A:THR:HG21	1	0.11
(3,380)	1:135:A:VAL:HG11	1:142:A:THR:HG22	1	0.11
(3,380)	1:135:A:VAL:HG11	1:142:A:THR:HG23	1	0.11
(3,380)	1:135:A:VAL:HG12	1:142:A:THR:HG21	1	0.11
(3,380)	1:135:A:VAL:HG12	1:142:A:THR:HG22	1	0.11
(3,380)	1:135:A:VAL:HG12	1:142:A:THR:HG23	1	0.11
(3,380)	1:135:A:VAL:HG13	1:142:A:THR:HG21	1	0.11
(3,380)	1:135:A:VAL:HG13	1:142:A:THR:HG22	1	0.11
(3,380)	1:135:A:VAL:HG13	1:142:A:THR:HG23	1	0.11
(3,306)	1:130:A:GLN:HG2	1:131:A:TYR:HD1	7	0.11
(3,306)	1:130:A:GLN:HG2	1:131:A:TYR:HD2	7	0.11
(3,306)	1:130:A:GLN:HG3	1:131:A:TYR:HD1	7	0.11
(3,306)	1:130:A:GLN:HG3	1:131:A:TYR:HD2	7	0.11
(3,271)	1:126:A:PHE:HA	1:131:A:TYR:HD1	4	0.11
(3,271)	1:126:A:PHE:HA	1:131:A:TYR:HD2	4	0.11
(3,271)	1:126:A:PHE:HA	1:131:A:TYR:HD1	10	0.11
(3,271)	1:126:A:PHE:HA	1:131:A:TYR:HD2	10	0.11
(3,249)	1:125:A:ASP:HB2	1:227:A:ARG:HD2	8	0.11
(3,249)	1:125:A:ASP:HB2	1:227:A:ARG:HD3	8	0.11
(3,249)	1:125:A:ASP:HB3	1:227:A:ARG:HD2	8	0.11
(3,249)	1:125:A:ASP:HB3	1:227:A:ARG:HD3	8	0.11
(3,156)	1:120:A:PHE:HE1	1:120:A:PHE:HA	4	0.11
(3,156)	1:120:A:PHE:HE2	1:120:A:PHE:HA	4	0.11
(3,156)	1:120:A:PHE:HE1	1:120:A:PHE:HA	10	0.11
(3,156)	1:120:A:PHE:HE2	1:120:A:PHE:HA	10	0.11
(3,131)	1:118:A:GLU:HG2	1:157:A:LYS:HD2	5	0.11
(3,131)	1:118:A:GLU:HG2	1:157:A:LYS:HD3	5	0.11
(3,131)	1:118:A:GLU:HG3	1:157:A:LYS:HD2	5	0.11
(3,131)	1:118:A:GLU:HG3	1:157:A:LYS:HD3	5	0.11
(3,23)	1:112:A:ILE:HG12	1:126:A:PHE:HZ	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:112:A:ILE:HG13	1:126:A:PHE:HZ	6	0.11
(2,38)	1:177:A:LEU:HD21	1:188:A:GLY:HA3	3	0.11
(2,38)	1:177:A:LEU:HD22	1:188:A:GLY:HA3	3	0.11
(2,38)	1:177:A:LEU:HD23	1:188:A:GLY:HA3	3	0.11
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD11	1	0.11
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD12	1	0.11
(2,30)	1:174:A:PHE:HD1	1:177:A:LEU:HD13	1	0.11
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD11	1	0.11
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD12	1	0.11
(2,30)	1:174:A:PHE:HD2	1:177:A:LEU:HD13	1	0.11
(2,14)	1:114:A:LEU:HD11	1:157:A:LYS:HA	7	0.11
(2,14)	1:114:A:LEU:HD12	1:157:A:LYS:HA	7	0.11
(2,14)	1:114:A:LEU:HD13	1:157:A:LYS:HA	7	0.11
(2,14)	1:114:A:LEU:HD11	1:157:A:LYS:HA	8	0.11
(2,14)	1:114:A:LEU:HD12	1:157:A:LYS:HA	8	0.11
(2,14)	1:114:A:LEU:HD13	1:157:A:LYS:HA	8	0.11
(1,124)	1:196:A:HIS:ND1	1:212:A:HIS:HE2	8	0.11
(1,124)	1:196:A:HIS:ND1	1:212:A:HIS:HE2	9	0.11
(1,88)	1:211:A:MET:O	1:215:A:LEU:H	1	0.11
(3,2155)	1:249:A:VAL:HG21	1:252:A:THR:H	9	0.1
(3,2155)	1:249:A:VAL:HG22	1:252:A:THR:H	9	0.1
(3,2155)	1:249:A:VAL:HG23	1:252:A:THR:H	9	0.1
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB2	8	0.1
(3,2142)	1:249:A:VAL:HG21	1:250:A:ARG:HB3	8	0.1
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB2	8	0.1
(3,2142)	1:249:A:VAL:HG22	1:250:A:ARG:HB3	8	0.1
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB2	8	0.1
(3,2142)	1:249:A:VAL:HG23	1:250:A:ARG:HB3	8	0.1
(3,2002)	1:238:A:ALA:HB1	1:241:A:ARG:HD2	5	0.1
(3,2002)	1:238:A:ALA:HB1	1:241:A:ARG:HD3	5	0.1
(3,2002)	1:238:A:ALA:HB2	1:241:A:ARG:HD2	5	0.1
(3,2002)	1:238:A:ALA:HB2	1:241:A:ARG:HD3	5	0.1
(3,2002)	1:238:A:ALA:HB3	1:241:A:ARG:HD2	5	0.1
(3,2002)	1:238:A:ALA:HB3	1:241:A:ARG:HD3	5	0.1
(3,1924)	1:233:A:LYS:H	1:233:A:LYS:HD2	4	0.1
(3,1924)	1:233:A:LYS:H	1:233:A:LYS:HD3	4	0.1
(3,1924)	1:233:A:LYS:H	1:233:A:LYS:HD2	10	0.1
(3,1924)	1:233:A:LYS:H	1:233:A:LYS:HD3	10	0.1
(3,1837)	1:227:A:ARG:HA	1:230:A:ASP:HA	6	0.1
(3,1837)	1:227:A:ARG:HA	1:230:A:ASP:HA	8	0.1
(3,1760)	1:223:A:GLU:HB2	1:227:A:ARG:HG2	2	0.1
(3,1760)	1:223:A:GLU:HB2	1:227:A:ARG:HG3	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1760)	1:223:A:GLU:HB3	1:227:A:ARG:HG2	2	0.1
(3,1760)	1:223:A:GLU:HB3	1:227:A:ARG:HG3	2	0.1
(3,1681)	1:218:A:MET:HA	1:221:A:SER:HA	8	0.1
(3,1674)	1:217:A:GLU:H	1:245:A:LEU:HG	4	0.1
(3,1674)	1:217:A:GLU:H	1:245:A:LEU:HG	10	0.1
(3,1532)	1:201:A:ALA:H	1:206:A:ASP:HA	3	0.1
(3,1516)	1:200:A:ILE:HG12	2:507:B:BB9:HB	3	0.1
(3,1516)	1:200:A:ILE:HG13	2:507:B:BB9:HB	3	0.1
(3,1516)	1:200:A:ILE:HG12	2:507:B:BB9:HB	7	0.1
(3,1516)	1:200:A:ILE:HG13	2:507:B:BB9:HB	7	0.1
(3,1360)	1:189:A:ALA:HB1	1:243:A:ALA:H	3	0.1
(3,1360)	1:189:A:ALA:HB2	1:243:A:ALA:H	3	0.1
(3,1360)	1:189:A:ALA:HB3	1:243:A:ALA:H	3	0.1
(3,1328)	1:187:A:GLU:HA	1:189:A:ALA:HB1	8	0.1
(3,1328)	1:187:A:GLU:HA	1:189:A:ALA:HB2	8	0.1
(3,1328)	1:187:A:GLU:HA	1:189:A:ALA:HB3	8	0.1
(3,1319)	1:186:A:SER:HA	1:190:A:MET:HB2	2	0.1
(3,1319)	1:186:A:SER:HA	1:190:A:MET:HB3	2	0.1
(3,1307)	1:186:A:SER:H	1:187:A:GLU:H	1	0.1
(3,1173)	1:177:A:LEU:HB2	1:239:A:TYR:HE1	8	0.1
(3,1173)	1:177:A:LEU:HB2	1:239:A:TYR:HE2	8	0.1
(3,1173)	1:177:A:LEU:HB3	1:239:A:TYR:HE1	8	0.1
(3,1173)	1:177:A:LEU:HB3	1:239:A:TYR:HE2	8	0.1
(3,1160)	1:177:A:LEU:HD21	1:188:A:GLY:H	3	0.1
(3,1160)	1:177:A:LEU:HD22	1:188:A:GLY:H	3	0.1
(3,1160)	1:177:A:LEU:HD23	1:188:A:GLY:H	3	0.1
(3,1089)	1:175:A:VAL:HG11	1:232:A:ALA:HB1	4	0.1
(3,1089)	1:175:A:VAL:HG12	1:232:A:ALA:HB1	4	0.1
(3,1089)	1:175:A:VAL:HG13	1:232:A:ALA:HB1	4	0.1
(3,1089)	1:175:A:VAL:HG11	1:232:A:ALA:HB1	7	0.1
(3,1089)	1:175:A:VAL:HG12	1:232:A:ALA:HB1	7	0.1
(3,1089)	1:175:A:VAL:HG13	1:232:A:ALA:HB1	7	0.1
(3,1089)	1:175:A:VAL:HG11	1:232:A:ALA:HB1	10	0.1
(3,1089)	1:175:A:VAL:HG12	1:232:A:ALA:HB1	10	0.1
(3,1089)	1:175:A:VAL:HG13	1:232:A:ALA:HB1	10	0.1
(3,1004)	1:173:A:ARG:HE	1:192:A:ALA:HB1	3	0.1
(3,1004)	1:173:A:ARG:HE	1:192:A:ALA:HB2	3	0.1
(3,1004)	1:173:A:ARG:HE	1:192:A:ALA:HB3	3	0.1
(3,944)	1:171:A:THR:HA	1:174:A:PHE:HE1	4	0.1
(3,944)	1:171:A:THR:HA	1:174:A:PHE:HE2	4	0.1
(3,944)	1:171:A:THR:HA	1:174:A:PHE:HE1	10	0.1
(3,944)	1:171:A:THR:HA	1:174:A:PHE:HE2	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG21	7	0.1
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG22	7	0.1
(3,924)	1:170:A:LEU:HD11	1:200:A:ILE:HG23	7	0.1
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG21	7	0.1
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG22	7	0.1
(3,924)	1:170:A:LEU:HD12	1:200:A:ILE:HG23	7	0.1
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG21	7	0.1
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG22	7	0.1
(3,924)	1:170:A:LEU:HD13	1:200:A:ILE:HG23	7	0.1
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG21	7	0.1
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG22	7	0.1
(3,924)	1:170:A:LEU:HD21	1:200:A:ILE:HG23	7	0.1
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG21	7	0.1
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG22	7	0.1
(3,924)	1:170:A:LEU:HD22	1:200:A:ILE:HG23	7	0.1
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG21	7	0.1
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG22	7	0.1
(3,924)	1:170:A:LEU:HD23	1:200:A:ILE:HG23	7	0.1
(3,917)	1:170:A:LEU:HD11	1:195:A:ASP:H	2	0.1
(3,917)	1:170:A:LEU:HD12	1:195:A:ASP:H	2	0.1
(3,917)	1:170:A:LEU:HD13	1:195:A:ASP:H	2	0.1
(3,917)	1:170:A:LEU:HD21	1:195:A:ASP:H	2	0.1
(3,917)	1:170:A:LEU:HD22	1:195:A:ASP:H	2	0.1
(3,917)	1:170:A:LEU:HD23	1:195:A:ASP:H	2	0.1
(3,917)	1:170:A:LEU:HD11	1:195:A:ASP:H	6	0.1
(3,917)	1:170:A:LEU:HD12	1:195:A:ASP:H	6	0.1
(3,917)	1:170:A:LEU:HD13	1:195:A:ASP:H	6	0.1
(3,917)	1:170:A:LEU:HD21	1:195:A:ASP:H	6	0.1
(3,917)	1:170:A:LEU:HD22	1:195:A:ASP:H	6	0.1
(3,917)	1:170:A:LEU:HD23	1:195:A:ASP:H	6	0.1
(3,873)	1:169:A:GLU:H	1:172:A:ARG:HB2	9	0.1
(3,873)	1:169:A:GLU:H	1:172:A:ARG:HB3	9	0.1
(3,779)	1:163:A:ILE:HB	1:166:A:GLU:H	4	0.1
(3,779)	1:163:A:ILE:HB	1:166:A:GLU:H	10	0.1
(3,751)	1:161:A:GLN:HA	1:164:A:GLN:HA	8	0.1
(3,732)	1:160:A:TRP:H	1:163:A:ILE:HB	10	0.1
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD2	9	0.1
(3,660)	1:156:A:THR:HG21	1:157:A:LYS:HD3	9	0.1
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD2	9	0.1
(3,660)	1:156:A:THR:HG22	1:157:A:LYS:HD3	9	0.1
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD2	9	0.1
(3,660)	1:156:A:THR:HG23	1:157:A:LYS:HD3	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,651)	1:155:A:TYR:HE1	1:163:A:ILE:HG21	9	0.1
(3,651)	1:155:A:TYR:HE1	1:163:A:ILE:HG22	9	0.1
(3,651)	1:155:A:TYR:HE1	1:163:A:ILE:HG23	9	0.1
(3,651)	1:155:A:TYR:HE2	1:163:A:ILE:HG21	9	0.1
(3,651)	1:155:A:TYR:HE2	1:163:A:ILE:HG22	9	0.1
(3,651)	1:155:A:TYR:HE2	1:163:A:ILE:HG23	9	0.1
(3,600)	1:151:A:LYS:HE2	1:152:A:THR:HA	5	0.1
(3,600)	1:151:A:LYS:HE3	1:152:A:THR:HA	5	0.1
(3,542)	1:147:A:GLN:HB2	1:204:A:HIS:HA	7	0.1
(3,542)	1:147:A:GLN:HB3	1:204:A:HIS:HA	7	0.1
(3,355)	1:133:A:GLU:HG2	1:136:A:ARG:HB2	1	0.1
(3,355)	1:133:A:GLU:HG2	1:136:A:ARG:HB3	1	0.1
(3,355)	1:133:A:GLU:HG3	1:136:A:ARG:HB2	1	0.1
(3,355)	1:133:A:GLU:HG3	1:136:A:ARG:HB3	1	0.1
(3,350)	1:133:A:GLU:HB2	1:135:A:VAL:H	4	0.1
(3,350)	1:133:A:GLU:HB3	1:135:A:VAL:H	4	0.1
(3,327)	1:131:A:TYR:HD1	2:503:B:THR:HA	6	0.1
(3,327)	1:131:A:TYR:HD2	2:503:B:THR:HA	6	0.1
(3,324)	1:131:A:TYR:HE1	1:224:A:ARG:HG2	1	0.1
(3,324)	1:131:A:TYR:HE1	1:224:A:ARG:HG3	1	0.1
(3,324)	1:131:A:TYR:HE2	1:224:A:ARG:HG2	1	0.1
(3,324)	1:131:A:TYR:HE2	1:224:A:ARG:HG3	1	0.1
(3,274)	1:126:A:PHE:HE1	2:505:B:BB9:HB	3	0.1
(3,274)	1:126:A:PHE:HE2	2:505:B:BB9:HB	3	0.1
(3,122)	1:117:A:GLU:HG2	1:121:A:GLU:HG2	3	0.1
(3,122)	1:117:A:GLU:HG2	1:121:A:GLU:HG3	3	0.1
(3,122)	1:117:A:GLU:HG3	1:121:A:GLU:HG2	3	0.1
(3,122)	1:117:A:GLU:HG3	1:121:A:GLU:HG3	3	0.1
(3,115)	1:117:A:GLU:H	1:119:A:LYS:HD2	2	0.1
(3,115)	1:117:A:GLU:H	1:119:A:LYS:HD3	2	0.1
(3,23)	1:112:A:ILE:HG12	1:126:A:PHE:HZ	5	0.1
(3,23)	1:112:A:ILE:HG13	1:126:A:PHE:HZ	5	0.1
(2,38)	1:177:A:LEU:HD21	1:188:A:GLY:HA3	4	0.1
(2,38)	1:177:A:LEU:HD22	1:188:A:GLY:HA3	4	0.1
(2,38)	1:177:A:LEU:HD23	1:188:A:GLY:HA3	4	0.1
(2,38)	1:177:A:LEU:HD21	1:188:A:GLY:HA3	10	0.1
(2,38)	1:177:A:LEU:HD22	1:188:A:GLY:HA3	10	0.1
(2,38)	1:177:A:LEU:HD23	1:188:A:GLY:HA3	10	0.1
(1,102)	1:227:A:ARG:O	1:231:A:ALA:H	1	0.1
(1,96)	1:224:A:ARG:O	1:228:A:ASN:H	2	0.1
(1,92)	1:213:A:THR:O	1:217:A:GLU:H	6	0.1

10 Dihedral-angle violation analysis [i](#)

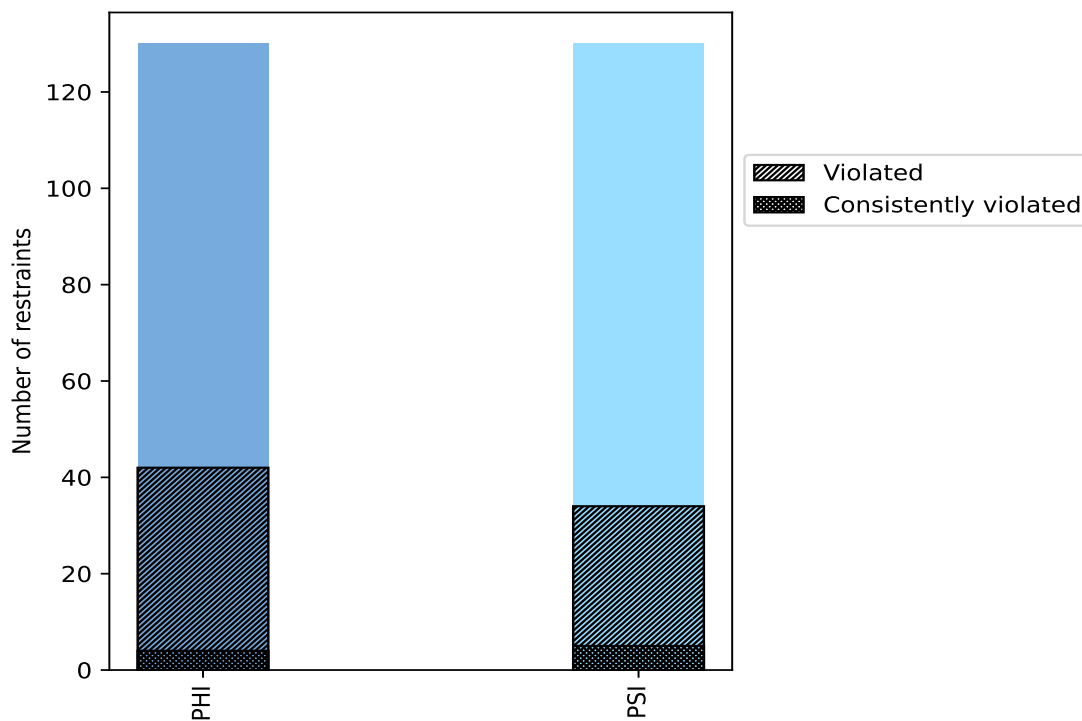
10.1 Summary of dihedral-angle violations [i](#)

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	130	50.0	42	32.3	16.2	4	3.1	1.5
PSI	130	50.0	34	26.2	13.1	5	3.8	1.9
Total	260	100.0	76	29.2	29.2	9	3.5	3.5

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

10.1.1 Bar chart : Distribution of dihedral-angles and violations [i](#)



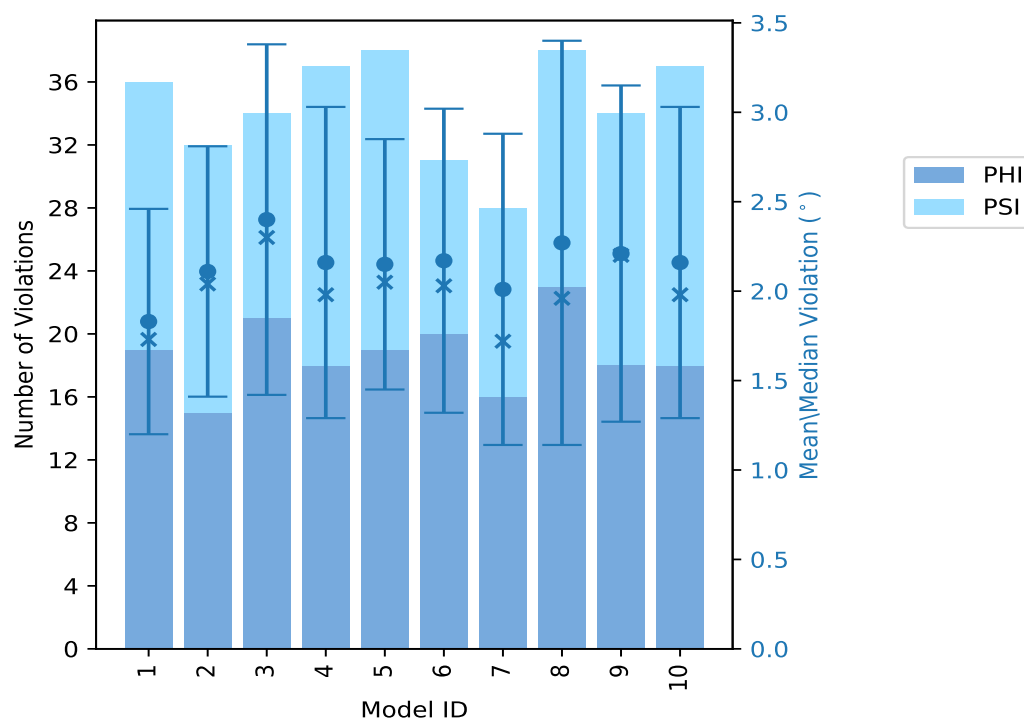
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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	19	17	36	1.83	3.57	0.63	1.73
2	15	17	32	2.11	3.55	0.7	2.04
3	21	13	34	2.4	4.7	0.98	2.3
4	18	19	37	2.16	4.28	0.87	1.98
5	19	19	38	2.15	4.1	0.7	2.05
6	20	11	31	2.17	4.69	0.85	2.03
7	16	12	28	2.01	4.56	0.87	1.72
8	23	15	38	2.27	4.87	1.13	1.96
9	18	16	34	2.21	4.82	0.94	2.2
10	18	19	37	2.16	4.44	0.87	1.98

10.2.1 Bar graph : Dihedral violation statistics for each model [\(i\)](#)



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

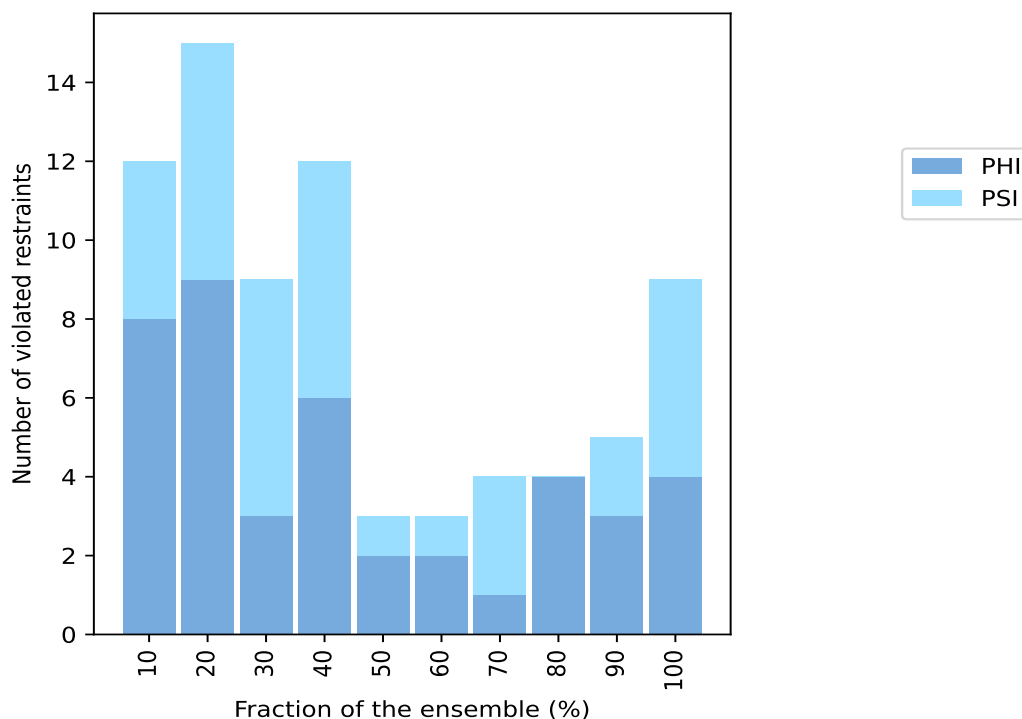
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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	%
8	4	12	1	10.0
9	6	15	2	20.0
3	6	9	3	30.0
6	6	12	4	40.0
2	1	3	5	50.0
2	1	3	6	60.0
1	3	4	7	70.0
4	0	4	8	80.0
3	2	5	9	90.0
4	5	9	10	100.0

¹ Number of models with violations

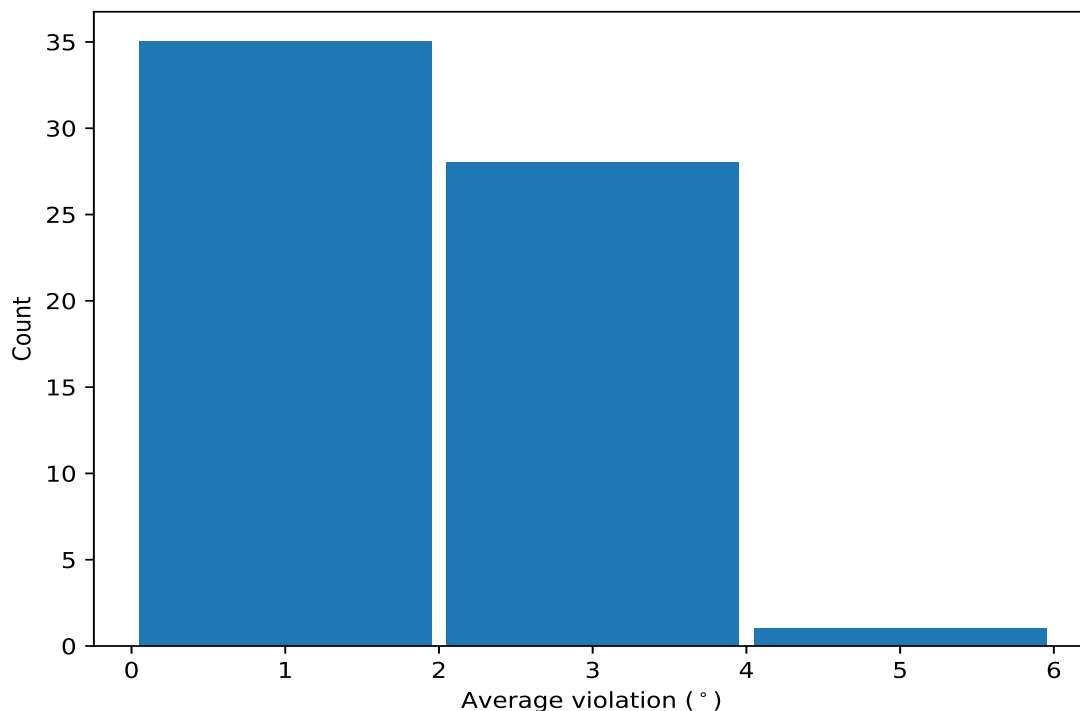
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

10.4.1 Histogram : Distribution of mean dihedral-angle violations [i](#)

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 [i](#)

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
(1,50)	1:139:A:TRP:N	1:139:A:TRP:CA	1:139:A:TRP:C	1:140:A:GLY:N	10	3.69	0.69	3.73
(1,126)	1:178:A:MET:N	1:178:A:MET:CA	1:178:A:MET:C	1:179:A:ASP:N	10	3.08	0.85	3.06
(1,57)	1:143:A:ASP:C	1:144:A:ALA:N	1:144:A:ALA:CA	1:144:A:ALA:C	10	2.82	0.55	2.86
(1,82)	1:156:A:THR:N	1:156:A:THR:CA	1:156:A:THR:C	1:157:A:LYS:N	10	2.82	0.87	2.72
(1,186)	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	1:213:A:THR:N	10	2.66	0.82	2.76
(1,100)	1:165:A:ASP:N	1:165:A:ASP:CA	1:165:A:ASP:C	1:166:A:GLU:N	10	2.63	0.32	2.58
(1,223)	1:230:A:ASP:C	1:231:A:ALA:N	1:231:A:ALA:CA	1:231:A:ALA:C	10	2.28	0.4	2.33
(1,71)	1:150:A:GLU:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	10	1.84	0.54	1.95
(1,219)	1:228:A:ASN:C	1:229:A:ILE:N	1:229:A:ILE:CA	1:229:A:ILE:C	10	1.83	0.29	1.9
(1,167)	1:199:A:GLY:C	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	9	2.41	1.37	1.61
(1,54)	1:142:A:THR:N	1:142:A:THR:CA	1:142:A:THR:C	1:143:A:ASP:N	9	2.1	0.58	2.03
(1,155)	1:193:A:ALA:C	1:194:A:GLU:N	1:194:A:GLU:CA	1:194:A:GLU:C	9	1.96	0.3	1.98
(1,105)	1:167:A:ALA:C	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	9	1.74	0.32	1.91

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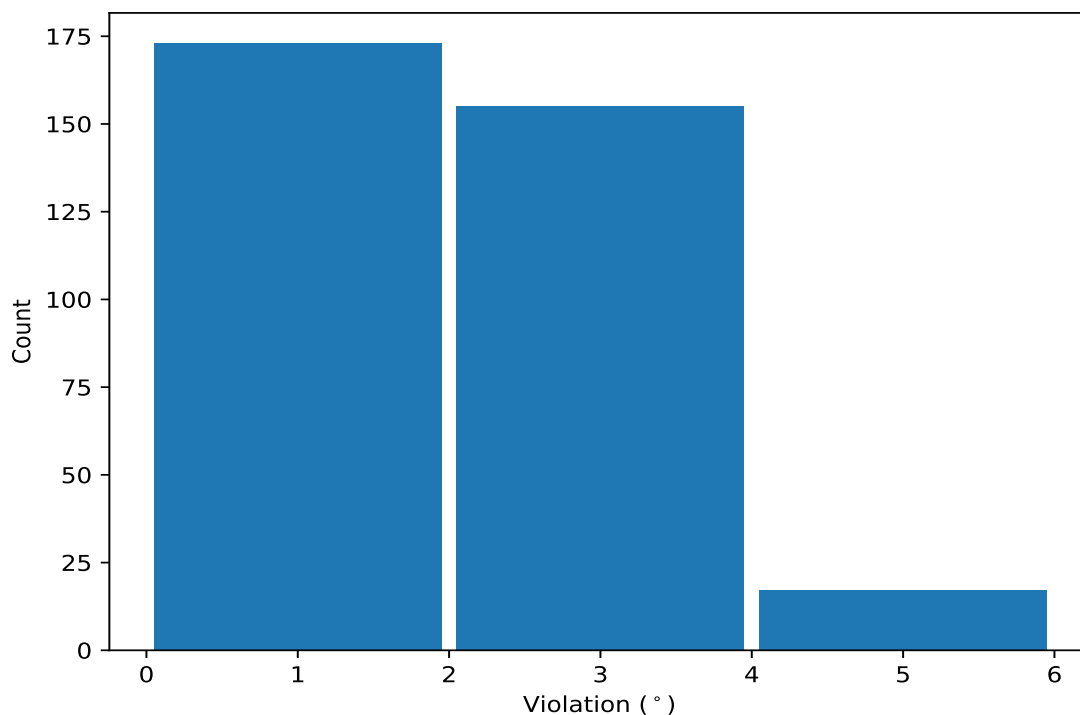
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,222)	1:230:A:ASP:N	1:230:A:ASP:CA	1:230:A:ASP:C	1:231:A:ALA:N	9	1.71	0.35	1.71
(1,245)	1:243:A:ALA:C	1:244:A:ILE:N	1:244:A:ILE:CA	1:244:A:ILE:C	8	2.38	0.61	2.54
(1,51)	1:139:A:TRP:C	1:140:A:GLY:N	1:140:A:GLY:CA	1:140:A:GLY:C	8	2.34	0.55	2.4
(1,175)	1:203:A:ASN:C	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	8	2.22	1.18	2.02
(1,185)	1:211:A:MET:C	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	8	1.87	0.61	1.84
(1,30)	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	1:130:A:GLN:N	7	2.34	0.54	2.57
(1,66)	1:148:A:SER:N	1:148:A:SER:CA	1:148:A:SER:C	1:149:A:LYS:N	7	2.24	0.83	2.35
(1,12)	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	1:119:A:LYS:N	7	1.86	0.47	2.12
(1,27)	1:127:A:ASP:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	7	1.81	0.7	1.43
(1,22)	1:123:A:PHE:N	1:123:A:PHE:CA	1:123:A:PHE:C	1:124:A:GLY:N	6	3.06	0.47	3.1
(1,211)	1:224:A:ARG:C	1:225:A:PHE:N	1:225:A:PHE:CA	1:225:A:PHE:C	6	2.52	0.32	2.55
(1,207)	1:222:A:ASP:C	1:223:A:GLU:N	1:223:A:GLU:CA	1:223:A:GLU:C	6	2.23	0.53	2.32
(1,177)	1:206:A:ASP:C	1:207:A:CYS:N	1:207:A:CYS:CA	1:207:A:CYS:C	5	2.51	0.78	2.08
(1,151)	1:191:A:ASP:C	1:192:A:ALA:N	1:192:A:ALA:CA	1:192:A:ALA:C	5	1.75	0.5	1.45
(1,18)	1:121:A:GLU:N	1:121:A:GLU:CA	1:121:A:GLU:C	1:122:A:VAL:N	5	1.51	0.36	1.34
(1,19)	1:121:A:GLU:C	1:122:A:VAL:N	1:122:A:VAL:CA	1:122:A:VAL:C	4	3.48	1.38	3.89
(1,197)	1:217:A:GLU:C	1:218:A:MET:N	1:218:A:MET:CA	1:218:A:MET:C	4	2.6	0.84	2.71
(1,172)	1:202:A:ARG:N	1:202:A:ARG:CA	1:202:A:ARG:C	1:203:A:ASN:N	4	1.87	0.43	2.02
(1,1)	1:111:A:GLY:C	1:112:A:ILE:N	1:112:A:ILE:CA	1:112:A:ILE:C	4	1.8	0.37	1.68
(1,130)	1:180:A:ALA:N	1:180:A:ALA:CA	1:180:A:ALA:C	1:181:A:GLY:N	4	1.73	0.19	1.78
(1,42)	1:135:A:VAL:N	1:135:A:VAL:CA	1:135:A:VAL:C	1:136:A:ARG:N	4	1.71	0.27	1.86
(1,190)	1:214:A:CYS:N	1:214:A:CYS:CA	1:214:A:CYS:C	1:215:A:LEU:N	4	1.56	0.49	1.46
(1,9)	1:116:A:PRO:C	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	4	1.4	0.2	1.4
(1,13)	1:118:A:GLU:C	1:119:A:LYS:N	1:119:A:LYS:CA	1:119:A:LYS:C	4	1.37	0.08	1.34
(1,88)	1:159:A:ASP:N	1:159:A:ASP:CA	1:159:A:ASP:C	1:160:A:TRP:N	4	1.27	0.19	1.23
(1,203)	1:220:A:VAL:C	1:221:A:SER:N	1:221:A:SER:CA	1:221:A:SER:C	4	1.2	0.16	1.14
(1,106)	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	1:169:A:GLU:N	4	1.05	0.05	1.04
(1,165)	1:198:A:GLN:C	1:199:A:GLY:N	1:199:A:GLY:CA	1:199:A:GLY:C	3	3.05	0.49	3.04
(1,166)	1:199:A:GLY:N	1:199:A:GLY:CA	1:199:A:GLY:C	1:200:A:ILE:N	3	3.01	1.36	3.13
(1,21)	1:122:A:VAL:C	1:123:A:PHE:N	1:123:A:PHE:CA	1:123:A:PHE:C	3	2.86	1.01	3.13
(1,230)	1:234:A:PRO:N	1:234:A:PRO:CA	1:234:A:PRO:C	1:235:A:GLY:N	3	2.15	0.48	2.47
(1,23)	1:125:A:ASP:C	1:126:A:PHE:N	1:126:A:PHE:CA	1:126:A:PHE:C	3	1.59	0.25	1.74
(1,212)	1:225:A:PHE:N	1:225:A:PHE:CA	1:225:A:PHE:C	1:226:A:THR:N	3	1.44	0.51	1.12
(1,196)	1:217:A:GLU:N	1:217:A:GLU:CA	1:217:A:GLU:C	1:218:A:MET:N	3	1.35	0.17	1.47
(1,176)	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	1:205:A:TYR:N	3	1.13	0.09	1.12
(1,182)	1:210:A:GLU:N	1:210:A:GLU:CA	1:210:A:GLU:C	1:211:A:MET:N	3	1.09	0.07	1.08
(1,75)	1:152:A:THR:C	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	2	4.36	0.08	4.36
(1,69)	1:149:A:LYS:C	1:150:A:GLU:N	1:150:A:GLU:CA	1:150:A:GLU:C	2	2.76	0.01	2.76
(1,168)	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	1:201:A:ALA:N	2	2.36	0.96	2.36
(1,37)	1:132:A:GLU:C	1:133:A:GLU:N	1:133:A:GLU:CA	1:133:A:GLU:C	2	2.16	0.26	2.16
(1,11)	1:117:A:GLU:C	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	2	2.11	0.08	2.11
(1,251)	1:246:A:ALA:C	1:247:A:ASN:N	1:247:A:ASN:CA	1:247:A:ASN:C	2	1.95	0.59	1.95
(1,77)	1:153:A:ALA:C	1:154:A:SER:N	1:154:A:SER:CA	1:154:A:SER:C	2	1.95	0.0	1.95
(1,199)	1:218:A:MET:C	1:219:A:TYR:N	1:219:A:TYR:CA	1:219:A:TYR:C	2	1.75	0.13	1.75
(1,204)	1:221:A:SER:N	1:221:A:SER:CA	1:221:A:SER:C	1:222:A:ASP:N	2	1.65	0.65	1.65
(1,76)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:SER:N	2	1.52	0.15	1.52
(1,194)	1:216:A:GLY:N	1:216:A:GLY:CA	1:216:A:GLY:C	1:217:A:GLU:N	2	1.46	0.02	1.46
(1,70)	1:150:A:GLU:N	1:150:A:GLU:CA	1:150:A:GLU:C	1:151:A:LYS:N	2	1.34	0.22	1.34
(1,259)	1:251:A:HIS:C	1:252:A:THR:N	1:252:A:THR:CA	1:252:A:THR:C	2	1.32	0.26	1.32
(1,233)	1:237:A:ALA:C	1:238:A:ALA:N	1:238:A:ALA:CA	1:238:A:ALA:C	2	1.12	0.1	1.12
(1,198)	1:218:A:MET:N	1:218:A:MET:CA	1:218:A:MET:C	1:219:A:TYR:N	2	1.1	0.09	1.1

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

10.5 All violated dihedral-angle restraints [i](#)

10.5.1 Histogram : Distribution of violations [i](#)

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,82)	1:156:A:THR:N	1:156:A:THR:CA	1:156:A:THR:C	1:157:A:LYS:N	8	4.87
(1,175)	1:203:A:ASN:C	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	9	4.82
(1,167)	1:199:A:GLY:C	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	8	4.76
(1,19)	1:121:A:GLU:C	1:122:A:VAL:N	1:122:A:VAL:CA	1:122:A:VAL:C	8	4.75
(1,167)	1:199:A:GLY:C	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	3	4.7
(1,19)	1:121:A:GLU:C	1:122:A:VAL:N	1:122:A:VAL:CA	1:122:A:VAL:C	6	4.69
(1,166)	1:199:A:GLY:N	1:199:A:GLY:CA	1:199:A:GLY:C	1:200:A:ILE:N	3	4.62
(1,50)	1:139:A:TRP:N	1:139:A:TRP:CA	1:139:A:TRP:C	1:140:A:GLY:N	7	4.56
(1,50)	1:139:A:TRP:N	1:139:A:TRP:CA	1:139:A:TRP:C	1:140:A:GLY:N	8	4.46
(1,75)	1:152:A:THR:C	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	10	4.44
(1,50)	1:139:A:TRP:N	1:139:A:TRP:CA	1:139:A:TRP:C	1:140:A:GLY:N	9	4.31

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,75)	1:152:A:THR:C	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	4	4.28
(1,126)	1:178:A:MET:N	1:178:A:MET:CA	1:178:A:MET:C	1:179:A:ASP:N	4	4.18
(1,126)	1:178:A:MET:N	1:178:A:MET:CA	1:178:A:MET:C	1:179:A:ASP:N	6	4.15
(1,186)	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	1:213:A:THR:N	5	4.1
(1,50)	1:139:A:TRP:N	1:139:A:TRP:CA	1:139:A:TRP:C	1:140:A:GLY:N	3	4.09
(1,126)	1:178:A:MET:N	1:178:A:MET:CA	1:178:A:MET:C	1:179:A:ASP:N	10	4.04
(1,21)	1:122:A:VAL:C	1:123:A:PHE:N	1:123:A:PHE:CA	1:123:A:PHE:C	8	3.95
(1,50)	1:139:A:TRP:N	1:139:A:TRP:CA	1:139:A:TRP:C	1:140:A:GLY:N	4	3.75
(1,50)	1:139:A:TRP:N	1:139:A:TRP:CA	1:139:A:TRP:C	1:140:A:GLY:N	10	3.71
(1,197)	1:217:A:GLU:C	1:218:A:MET:N	1:218:A:MET:CA	1:218:A:MET:C	7	3.66
(1,165)	1:198:A:GLN:C	1:199:A:GLY:N	1:199:A:GLY:CA	1:199:A:GLY:C	3	3.66
(1,186)	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	1:213:A:THR:N	8	3.62
(1,57)	1:143:A:ASP:C	1:144:A:ALA:N	1:144:A:ALA:CA	1:144:A:ALA:C	3	3.61
(1,22)	1:123:A:PHE:N	1:123:A:PHE:CA	1:123:A:PHE:C	1:124:A:GLY:N	5	3.6
(1,22)	1:123:A:PHE:N	1:123:A:PHE:CA	1:123:A:PHE:C	1:124:A:GLY:N	1	3.57
(1,57)	1:143:A:ASP:C	1:144:A:ALA:N	1:144:A:ALA:CA	1:144:A:ALA:C	2	3.55
(1,126)	1:178:A:MET:N	1:178:A:MET:CA	1:178:A:MET:C	1:179:A:ASP:N	3	3.54
(1,177)	1:206:A:ASP:C	1:207:A:CYS:N	1:207:A:CYS:CA	1:207:A:CYS:C	10	3.48
(1,50)	1:139:A:TRP:N	1:139:A:TRP:CA	1:139:A:TRP:C	1:140:A:GLY:N	5	3.47
(1,177)	1:206:A:ASP:C	1:207:A:CYS:N	1:207:A:CYS:CA	1:207:A:CYS:C	4	3.44
(1,82)	1:156:A:THR:N	1:156:A:THR:CA	1:156:A:THR:C	1:157:A:LYS:N	6	3.44
(1,51)	1:139:A:TRP:C	1:140:A:GLY:N	1:140:A:GLY:CA	1:140:A:GLY:C	2	3.43
(1,168)	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	1:201:A:ALA:N	9	3.32
(1,66)	1:148:A:SER:N	1:148:A:SER:CA	1:148:A:SER:C	1:149:A:LYS:N	4	3.32
(1,66)	1:148:A:SER:N	1:148:A:SER:CA	1:148:A:SER:C	1:149:A:LYS:N	10	3.31
(1,167)	1:199:A:GLY:C	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	9	3.3
(1,57)	1:143:A:ASP:C	1:144:A:ALA:N	1:144:A:ALA:CA	1:144:A:ALA:C	9	3.26
(1,22)	1:123:A:PHE:N	1:123:A:PHE:CA	1:123:A:PHE:C	1:124:A:GLY:N	2	3.26
(1,50)	1:139:A:TRP:N	1:139:A:TRP:CA	1:139:A:TRP:C	1:140:A:GLY:N	2	3.25
(1,50)	1:139:A:TRP:N	1:139:A:TRP:CA	1:139:A:TRP:C	1:140:A:GLY:N	6	3.22
(1,82)	1:156:A:THR:N	1:156:A:THR:CA	1:156:A:THR:C	1:157:A:LYS:N	9	3.21
(1,126)	1:178:A:MET:N	1:178:A:MET:CA	1:178:A:MET:C	1:179:A:ASP:N	5	3.19
(1,207)	1:222:A:ASP:C	1:223:A:GLU:N	1:223:A:GLU:CA	1:223:A:GLU:C	8	3.18
(1,27)	1:127:A:ASP:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	3	3.15
(1,166)	1:199:A:GLY:N	1:199:A:GLY:CA	1:199:A:GLY:C	1:200:A:ILE:N	8	3.13
(1,21)	1:122:A:VAL:C	1:123:A:PHE:N	1:123:A:PHE:CA	1:123:A:PHE:C	9	3.13
(1,57)	1:143:A:ASP:C	1:144:A:ALA:N	1:144:A:ALA:CA	1:144:A:ALA:C	5	3.11
(1,100)	1:165:A:ASP:N	1:165:A:ASP:CA	1:165:A:ASP:C	1:166:A:GLU:N	8	3.09
(1,19)	1:121:A:GLU:C	1:122:A:VAL:N	1:122:A:VAL:CA	1:122:A:VAL:C	9	3.09
(1,100)	1:165:A:ASP:N	1:165:A:ASP:CA	1:165:A:ASP:C	1:166:A:GLU:N	1	3.06
(1,100)	1:165:A:ASP:N	1:165:A:ASP:CA	1:165:A:ASP:C	1:166:A:GLU:N	7	3.05
(1,165)	1:198:A:GLN:C	1:199:A:GLY:N	1:199:A:GLY:CA	1:199:A:GLY:C	8	3.04
(1,82)	1:156:A:THR:N	1:156:A:THR:CA	1:156:A:THR:C	1:157:A:LYS:N	2	3.03
(1,82)	1:156:A:THR:N	1:156:A:THR:CA	1:156:A:THR:C	1:157:A:LYS:N	1	3.02
(1,186)	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	1:213:A:THR:N	10	3.01
(1,245)	1:243:A:ALA:C	1:244:A:ILE:N	1:244:A:ILE:CA	1:244:A:ILE:C	4	2.99
(1,57)	1:143:A:ASP:C	1:144:A:ALA:N	1:144:A:ALA:CA	1:144:A:ALA:C	7	2.99
(1,245)	1:243:A:ALA:C	1:244:A:ILE:N	1:244:A:ILE:CA	1:244:A:ILE:C	10	2.98
(1,71)	1:150:A:GLU:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	3	2.97
(1,245)	1:243:A:ALA:C	1:244:A:ILE:N	1:244:A:ILE:CA	1:244:A:ILE:C	3	2.96
(1,22)	1:123:A:PHE:N	1:123:A:PHE:CA	1:123:A:PHE:C	1:124:A:GLY:N	10	2.93

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,186)	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	1:213:A:THR:N	4	2.92
(1,126)	1:178:A:MET:N	1:178:A:MET:CA	1:178:A:MET:C	1:179:A:ASP:N	7	2.92
(1,211)	1:224:A:ARG:C	1:225:A:PHE:N	1:225:A:PHE:CA	1:225:A:PHE:C	7	2.91
(1,54)	1:142:A:THR:N	1:142:A:THR:CA	1:142:A:THR:C	1:143:A:ASP:N	4	2.87
(1,30)	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	1:130:A:GLN:N	3	2.86
(1,30)	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	1:130:A:GLN:N	5	2.83
(1,223)	1:230:A:ASP:C	1:231:A:ALA:N	1:231:A:ALA:CA	1:231:A:ALA:C	10	2.82
(1,30)	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	1:130:A:GLN:N	2	2.82
(1,211)	1:224:A:ARG:C	1:225:A:PHE:N	1:225:A:PHE:CA	1:225:A:PHE:C	9	2.81
(1,186)	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	1:213:A:THR:N	3	2.81
(1,54)	1:142:A:THR:N	1:142:A:THR:CA	1:142:A:THR:C	1:143:A:ASP:N	10	2.8
(1,175)	1:203:A:ASN:C	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	8	2.78
(1,223)	1:230:A:ASP:C	1:231:A:ALA:N	1:231:A:ALA:CA	1:231:A:ALA:C	4	2.77
(1,69)	1:149:A:LYS:C	1:150:A:GLU:N	1:150:A:GLU:CA	1:150:A:GLU:C	4	2.77
(1,22)	1:123:A:PHE:N	1:123:A:PHE:CA	1:123:A:PHE:C	1:124:A:GLY:N	4	2.77
(1,69)	1:149:A:LYS:C	1:150:A:GLU:N	1:150:A:GLU:CA	1:150:A:GLU:C	10	2.76
(1,197)	1:217:A:GLU:C	1:218:A:MET:N	1:218:A:MET:CA	1:218:A:MET:C	5	2.74
(1,57)	1:143:A:ASP:C	1:144:A:ALA:N	1:144:A:ALA:CA	1:144:A:ALA:C	6	2.74
(1,186)	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	1:213:A:THR:N	6	2.71
(1,57)	1:143:A:ASP:C	1:144:A:ALA:N	1:144:A:ALA:CA	1:144:A:ALA:C	1	2.7
(1,211)	1:224:A:ARG:C	1:225:A:PHE:N	1:225:A:PHE:CA	1:225:A:PHE:C	6	2.69
(1,197)	1:217:A:GLU:C	1:218:A:MET:N	1:218:A:MET:CA	1:218:A:MET:C	3	2.68
(1,51)	1:139:A:TRP:C	1:140:A:GLY:N	1:140:A:GLY:CA	1:140:A:GLY:C	7	2.68
(1,175)	1:203:A:ASN:C	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	2	2.66
(1,100)	1:165:A:ASP:N	1:165:A:ASP:CA	1:165:A:ASP:C	1:166:A:GLU:N	5	2.66
(1,185)	1:211:A:MET:C	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	3	2.64
(1,185)	1:211:A:MET:C	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	6	2.64
(1,155)	1:193:A:ALA:C	1:194:A:GLU:N	1:194:A:GLU:CA	1:194:A:GLU:C	1	2.63
(1,66)	1:148:A:SER:N	1:148:A:SER:CA	1:148:A:SER:C	1:149:A:LYS:N	3	2.63
(1,100)	1:165:A:ASP:N	1:165:A:ASP:CA	1:165:A:ASP:C	1:166:A:GLU:N	9	2.62
(1,245)	1:243:A:ALA:C	1:244:A:ILE:N	1:244:A:ILE:CA	1:244:A:ILE:C	2	2.6
(1,54)	1:142:A:THR:N	1:142:A:THR:CA	1:142:A:THR:C	1:143:A:ASP:N	8	2.6
(1,151)	1:191:A:ASP:C	1:192:A:ALA:N	1:192:A:ALA:CA	1:192:A:ALA:C	5	2.59
(1,186)	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	1:213:A:THR:N	9	2.57
(1,30)	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	1:130:A:GLN:N	8	2.57
(1,100)	1:165:A:ASP:N	1:165:A:ASP:CA	1:165:A:ASP:C	1:166:A:GLU:N	3	2.55
(1,251)	1:246:A:ALA:C	1:247:A:ASN:N	1:247:A:ASN:CA	1:247:A:ASN:C	5	2.54
(1,126)	1:178:A:MET:N	1:178:A:MET:CA	1:178:A:MET:C	1:179:A:ASP:N	1	2.52
(1,230)	1:234:A:PRO:N	1:234:A:PRO:CA	1:234:A:PRO:C	1:235:A:GLY:N	5	2.51
(1,27)	1:127:A:ASP:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	6	2.51
(1,245)	1:243:A:ALA:C	1:244:A:ILE:N	1:244:A:ILE:CA	1:244:A:ILE:C	1	2.49
(1,51)	1:139:A:TRP:C	1:140:A:GLY:N	1:140:A:GLY:CA	1:140:A:GLY:C	6	2.49
(1,223)	1:230:A:ASP:C	1:231:A:ALA:N	1:231:A:ALA:CA	1:231:A:ALA:C	7	2.48
(1,54)	1:142:A:THR:N	1:142:A:THR:CA	1:142:A:THR:C	1:143:A:ASP:N	2	2.48
(1,230)	1:234:A:PRO:N	1:234:A:PRO:CA	1:234:A:PRO:C	1:235:A:GLY:N	2	2.47
(1,165)	1:198:A:GLN:C	1:199:A:GLY:N	1:199:A:GLY:CA	1:199:A:GLY:C	9	2.46
(1,100)	1:165:A:ASP:N	1:165:A:ASP:CA	1:165:A:ASP:C	1:166:A:GLU:N	2	2.46
(1,223)	1:230:A:ASP:C	1:231:A:ALA:N	1:231:A:ALA:CA	1:231:A:ALA:C	3	2.45
(1,51)	1:139:A:TRP:C	1:140:A:GLY:N	1:140:A:GLY:CA	1:140:A:GLY:C	5	2.45
(1,126)	1:178:A:MET:N	1:178:A:MET:CA	1:178:A:MET:C	1:179:A:ASP:N	9	2.44
(1,82)	1:156:A:THR:N	1:156:A:THR:CA	1:156:A:THR:C	1:157:A:LYS:N	4	2.43

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,175)	1:203:A:ASN:C	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	6	2.42
(1,211)	1:224:A:ARG:C	1:225:A:PHE:N	1:225:A:PHE:CA	1:225:A:PHE:C	2	2.41
(1,37)	1:132:A:GLU:C	1:133:A:GLU:N	1:133:A:GLU:CA	1:133:A:GLU:C	5	2.41
(1,82)	1:156:A:THR:N	1:156:A:THR:CA	1:156:A:THR:C	1:157:A:LYS:N	10	2.4
(1,1)	1:111:A:GLY:C	1:112:A:ILE:N	1:112:A:ILE:CA	1:112:A:ILE:C	6	2.4
(1,66)	1:148:A:SER:N	1:148:A:SER:CA	1:148:A:SER:C	1:149:A:LYS:N	6	2.35
(1,223)	1:230:A:ASP:C	1:231:A:ALA:N	1:231:A:ALA:CA	1:231:A:ALA:C	5	2.34
(1,51)	1:139:A:TRP:C	1:140:A:GLY:N	1:140:A:GLY:CA	1:140:A:GLY:C	9	2.34
(1,100)	1:165:A:ASP:N	1:165:A:ASP:CA	1:165:A:ASP:C	1:166:A:GLU:N	4	2.33
(1,223)	1:230:A:ASP:C	1:231:A:ALA:N	1:231:A:ALA:CA	1:231:A:ALA:C	9	2.32
(1,207)	1:222:A:ASP:C	1:223:A:GLU:N	1:223:A:GLU:CA	1:223:A:GLU:C	3	2.32
(1,207)	1:222:A:ASP:C	1:223:A:GLU:N	1:223:A:GLU:CA	1:223:A:GLU:C	4	2.32
(1,207)	1:222:A:ASP:C	1:223:A:GLU:N	1:223:A:GLU:CA	1:223:A:GLU:C	10	2.32
(1,12)	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	1:119:A:LYS:N	7	2.32
(1,100)	1:165:A:ASP:N	1:165:A:ASP:CA	1:165:A:ASP:C	1:166:A:GLU:N	6	2.31
(1,204)	1:221:A:SER:N	1:221:A:SER:CA	1:221:A:SER:C	1:222:A:ASP:N	1	2.3
(1,126)	1:178:A:MET:N	1:178:A:MET:CA	1:178:A:MET:C	1:179:A:ASP:N	8	2.3
(1,222)	1:230:A:ASP:N	1:230:A:ASP:CA	1:230:A:ASP:C	1:231:A:ALA:N	5	2.28
(1,185)	1:211:A:MET:C	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	8	2.28
(1,211)	1:224:A:ARG:C	1:225:A:PHE:N	1:225:A:PHE:CA	1:225:A:PHE:C	3	2.27
(1,223)	1:230:A:ASP:C	1:231:A:ALA:N	1:231:A:ALA:CA	1:231:A:ALA:C	8	2.26
(1,12)	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	1:119:A:LYS:N	4	2.26
(1,185)	1:211:A:MET:C	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	9	2.25
(1,22)	1:123:A:PHE:N	1:123:A:PHE:CA	1:123:A:PHE:C	1:124:A:GLY:N	3	2.25
(1,12)	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	1:119:A:LYS:N	10	2.25
(1,190)	1:214:A:CYS:N	1:214:A:CYS:CA	1:214:A:CYS:C	1:215:A:LEU:N	5	2.24
(1,172)	1:202:A:ARG:N	1:202:A:ARG:CA	1:202:A:ARG:C	1:203:A:ASN:N	2	2.24
(1,82)	1:156:A:THR:N	1:156:A:THR:CA	1:156:A:THR:C	1:157:A:LYS:N	7	2.22
(1,18)	1:121:A:GLU:N	1:121:A:GLU:CA	1:121:A:GLU:C	1:122:A:VAL:N	5	2.21
(1,155)	1:193:A:ALA:C	1:194:A:GLU:N	1:194:A:GLU:CA	1:194:A:GLU:C	9	2.2
(1,172)	1:202:A:ARG:N	1:202:A:ARG:CA	1:202:A:ARG:C	1:203:A:ASN:N	9	2.19
(1,100)	1:165:A:ASP:N	1:165:A:ASP:CA	1:165:A:ASP:C	1:166:A:GLU:N	10	2.19
(1,11)	1:117:A:GLU:C	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	8	2.19
(1,57)	1:143:A:ASP:C	1:144:A:ALA:N	1:144:A:ALA:CA	1:144:A:ALA:C	8	2.18
(1,212)	1:225:A:PHE:N	1:225:A:PHE:CA	1:225:A:PHE:C	1:226:A:THR:N	7	2.16
(1,71)	1:150:A:GLU:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	1	2.16
(1,223)	1:230:A:ASP:C	1:231:A:ALA:N	1:231:A:ALA:CA	1:231:A:ALA:C	2	2.15
(1,219)	1:228:A:ASN:C	1:229:A:ILE:N	1:229:A:ILE:CA	1:229:A:ILE:C	5	2.15
(1,245)	1:243:A:ALA:C	1:244:A:ILE:N	1:244:A:ILE:CA	1:244:A:ILE:C	6	2.12
(1,50)	1:139:A:TRP:N	1:139:A:TRP:CA	1:139:A:TRP:C	1:140:A:GLY:N	1	2.12
(1,12)	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	1:119:A:LYS:N	2	2.12
(1,177)	1:206:A:ASP:C	1:207:A:CYS:N	1:207:A:CYS:CA	1:207:A:CYS:C	5	2.08
(1,57)	1:143:A:ASP:C	1:144:A:ALA:N	1:144:A:ALA:CA	1:144:A:ALA:C	4	2.07
(1,219)	1:228:A:ASN:C	1:229:A:ILE:N	1:229:A:ILE:CA	1:229:A:ILE:C	2	2.06
(1,51)	1:139:A:TRP:C	1:140:A:GLY:N	1:140:A:GLY:CA	1:140:A:GLY:C	1	2.06
(1,219)	1:228:A:ASN:C	1:229:A:ILE:N	1:229:A:ILE:CA	1:229:A:ILE:C	4	2.05
(1,30)	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	1:130:A:GLN:N	1	2.05
(1,151)	1:191:A:ASP:C	1:192:A:ALA:N	1:192:A:ALA:CA	1:192:A:ALA:C	7	2.04
(1,57)	1:143:A:ASP:C	1:144:A:ALA:N	1:144:A:ALA:CA	1:144:A:ALA:C	10	2.04
(1,222)	1:230:A:ASP:N	1:230:A:ASP:CA	1:230:A:ASP:C	1:231:A:ALA:N	4	2.03
(1,155)	1:193:A:ALA:C	1:194:A:GLU:N	1:194:A:GLU:CA	1:194:A:GLU:C	2	2.03

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,105)	1:167:A:ALA:C	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	10	2.03
(1,71)	1:150:A:GLU:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	6	2.03
(1,54)	1:142:A:THR:N	1:142:A:THR:CA	1:142:A:THR:C	1:143:A:ASP:N	5	2.03
(1,11)	1:117:A:GLU:C	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	1	2.03
(1,71)	1:150:A:GLU:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	5	2.02
(1,222)	1:230:A:ASP:N	1:230:A:ASP:CA	1:230:A:ASP:C	1:231:A:ALA:N	10	2.01
(1,211)	1:224:A:ARG:C	1:225:A:PHE:N	1:225:A:PHE:CA	1:225:A:PHE:C	8	2.0
(1,105)	1:167:A:ALA:C	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	1	2.0
(1,155)	1:193:A:ALA:C	1:194:A:GLU:N	1:194:A:GLU:CA	1:194:A:GLU:C	4	1.98
(1,155)	1:193:A:ALA:C	1:194:A:GLU:N	1:194:A:GLU:CA	1:194:A:GLU:C	10	1.98
(1,71)	1:150:A:GLU:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	4	1.96
(1,219)	1:228:A:ASN:C	1:229:A:ILE:N	1:229:A:ILE:CA	1:229:A:ILE:C	10	1.95
(1,77)	1:153:A:ALA:C	1:154:A:SER:N	1:154:A:SER:CA	1:154:A:SER:C	4	1.95
(1,77)	1:153:A:ALA:C	1:154:A:SER:N	1:154:A:SER:CA	1:154:A:SER:C	10	1.95
(1,30)	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	1:130:A:GLN:N	9	1.95
(1,219)	1:228:A:ASN:C	1:229:A:ILE:N	1:229:A:ILE:CA	1:229:A:ILE:C	1	1.94
(1,186)	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	1:213:A:THR:N	1	1.94
(1,71)	1:150:A:GLU:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	10	1.94
(1,130)	1:180:A:ALA:N	1:180:A:ALA:CA	1:180:A:ALA:C	1:181:A:GLY:N	4	1.93
(1,105)	1:167:A:ALA:C	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	4	1.92
(1,177)	1:206:A:ASP:C	1:207:A:CYS:N	1:207:A:CYS:CA	1:207:A:CYS:C	9	1.91
(1,105)	1:167:A:ALA:C	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	7	1.91
(1,105)	1:167:A:ALA:C	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	8	1.91
(1,105)	1:167:A:ALA:C	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	2	1.9
(1,37)	1:132:A:GLU:C	1:133:A:GLU:N	1:133:A:GLU:CA	1:133:A:GLU:C	3	1.9
(1,223)	1:230:A:ASP:C	1:231:A:ALA:N	1:231:A:ALA:CA	1:231:A:ALA:C	1	1.88
(1,199)	1:218:A:MET:C	1:219:A:TYR:N	1:219:A:TYR:CA	1:219:A:TYR:C	1	1.88
(1,42)	1:135:A:VAL:N	1:135:A:VAL:CA	1:135:A:VAL:C	1:136:A:ARG:N	2	1.87
(1,42)	1:135:A:VAL:N	1:135:A:VAL:CA	1:135:A:VAL:C	1:136:A:ARG:N	10	1.87
(1,172)	1:202:A:ARG:N	1:202:A:ARG:CA	1:202:A:ARG:C	1:203:A:ASN:N	5	1.86
(1,219)	1:228:A:ASN:C	1:229:A:ILE:N	1:229:A:ILE:CA	1:229:A:ILE:C	3	1.85
(1,42)	1:135:A:VAL:N	1:135:A:VAL:CA	1:135:A:VAL:C	1:136:A:ARG:N	4	1.85
(1,130)	1:180:A:ALA:N	1:180:A:ALA:CA	1:180:A:ALA:C	1:181:A:GLY:N	10	1.84
(1,41)	1:134:A:GLU:C	1:135:A:VAL:N	1:135:A:VAL:CA	1:135:A:VAL:C	3	1.84
(1,27)	1:127:A:ASP:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	5	1.84
(1,82)	1:156:A:THR:N	1:156:A:THR:CA	1:156:A:THR:C	1:157:A:LYS:N	3	1.83
(1,193)	1:215:A:LEU:C	1:216:A:GLY:N	1:216:A:GLY:CA	1:216:A:GLY:C	6	1.81
(1,155)	1:193:A:ALA:C	1:194:A:GLU:N	1:194:A:GLU:CA	1:194:A:GLU:C	8	1.81
(1,7)	1:115:A:THR:C	1:116:A:PRO:N	1:116:A:PRO:CA	1:116:A:PRO:C	3	1.81
(1,190)	1:214:A:CYS:N	1:214:A:CYS:CA	1:214:A:CYS:C	1:215:A:LEU:N	6	1.8
(1,54)	1:142:A:THR:N	1:142:A:THR:CA	1:142:A:THR:C	1:143:A:ASP:N	9	1.8
(1,222)	1:230:A:ASP:N	1:230:A:ASP:CA	1:230:A:ASP:C	1:231:A:ALA:N	8	1.79
(1,71)	1:150:A:GLU:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	2	1.79
(1,23)	1:125:A:ASP:C	1:126:A:PHE:N	1:126:A:PHE:CA	1:126:A:PHE:C	4	1.79
(1,1)	1:111:A:GLY:C	1:112:A:ILE:N	1:112:A:ILE:CA	1:112:A:ILE:C	2	1.79
(1,82)	1:156:A:THR:N	1:156:A:THR:CA	1:156:A:THR:C	1:157:A:LYS:N	5	1.77
(1,155)	1:193:A:ALA:C	1:194:A:GLU:N	1:194:A:GLU:CA	1:194:A:GLU:C	3	1.76
(1,219)	1:228:A:ASN:C	1:229:A:ILE:N	1:229:A:ILE:CA	1:229:A:ILE:C	9	1.75
(1,219)	1:228:A:ASN:C	1:229:A:ILE:N	1:229:A:ILE:CA	1:229:A:ILE:C	6	1.74
(1,207)	1:222:A:ASP:C	1:223:A:GLU:N	1:223:A:GLU:CA	1:223:A:GLU:C	5	1.74
(1,23)	1:125:A:ASP:C	1:126:A:PHE:N	1:126:A:PHE:CA	1:126:A:PHE:C	10	1.74

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,130)	1:180:A:ALA:N	1:180:A:ALA:CA	1:180:A:ALA:C	1:181:A:GLY:N	7	1.72
(1,222)	1:230:A:ASP:N	1:230:A:ASP:CA	1:230:A:ASP:C	1:231:A:ALA:N	7	1.71
(1,219)	1:228:A:ASN:C	1:229:A:ILE:N	1:229:A:ILE:CA	1:229:A:ILE:C	7	1.71
(1,167)	1:199:A:GLY:C	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	7	1.7
(1,186)	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	1:213:A:THR:N	2	1.69
(1,76)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:SER:N	5	1.68
(1,51)	1:139:A:TRP:C	1:140:A:GLY:N	1:140:A:GLY:CA	1:140:A:GLY:C	3	1.68
(1,9)	1:116:A:PRO:C	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	9	1.68
(1,155)	1:193:A:ALA:C	1:194:A:GLU:N	1:194:A:GLU:CA	1:194:A:GLU:C	6	1.67
(1,177)	1:206:A:ASP:C	1:207:A:CYS:N	1:207:A:CYS:CA	1:207:A:CYS:C	6	1.66
(1,54)	1:142:A:THR:N	1:142:A:THR:CA	1:142:A:THR:C	1:143:A:ASP:N	6	1.66
(1,245)	1:243:A:ALA:C	1:244:A:ILE:N	1:244:A:ILE:CA	1:244:A:ILE:C	8	1.65
(1,222)	1:230:A:ASP:N	1:230:A:ASP:CA	1:230:A:ASP:C	1:231:A:ALA:N	2	1.63
(1,199)	1:218:A:MET:C	1:219:A:TYR:N	1:219:A:TYR:CA	1:219:A:TYR:C	2	1.62
(1,175)	1:203:A:ASN:C	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	5	1.61
(1,167)	1:199:A:GLY:C	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	6	1.61
(1,51)	1:139:A:TRP:C	1:140:A:GLY:N	1:140:A:GLY:CA	1:140:A:GLY:C	8	1.59
(1,259)	1:251:A:HIS:C	1:252:A:THR:N	1:252:A:THR:CA	1:252:A:THR:C	1	1.58
(1,155)	1:193:A:ALA:C	1:194:A:GLU:N	1:194:A:GLU:CA	1:194:A:GLU:C	7	1.58
(1,12)	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	1:119:A:LYS:N	5	1.58
(1,1)	1:111:A:GLY:C	1:112:A:ILE:N	1:112:A:ILE:CA	1:112:A:ILE:C	5	1.57
(1,88)	1:159:A:ASP:N	1:159:A:ASP:CA	1:159:A:ASP:C	1:160:A:TRP:N	5	1.56
(1,70)	1:150:A:GLU:N	1:150:A:GLU:CA	1:150:A:GLU:C	1:151:A:LYS:N	5	1.56
(1,167)	1:199:A:GLY:C	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	1	1.55
(1,66)	1:148:A:SER:N	1:148:A:SER:CA	1:148:A:SER:C	1:149:A:LYS:N	8	1.55
(1,54)	1:142:A:THR:N	1:142:A:THR:CA	1:142:A:THR:C	1:143:A:ASP:N	1	1.55
(1,126)	1:178:A:MET:N	1:178:A:MET:CA	1:178:A:MET:C	1:179:A:ASP:N	2	1.52
(1,105)	1:167:A:ALA:C	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	5	1.51
(1,21)	1:122:A:VAL:C	1:123:A:PHE:N	1:123:A:PHE:CA	1:123:A:PHE:C	6	1.51
(1,13)	1:118:A:GLU:C	1:119:A:LYS:N	1:119:A:LYS:CA	1:119:A:LYS:C	1	1.5
(1,207)	1:222:A:ASP:C	1:223:A:GLU:N	1:223:A:GLU:CA	1:223:A:GLU:C	2	1.49
(1,200)	1:219:A:TYR:N	1:219:A:TYR:CA	1:219:A:TYR:C	1:220:A:VAL:N	9	1.49
(1,230)	1:234:A:PRO:N	1:234:A:PRO:CA	1:234:A:PRO:C	1:235:A:GLY:N	1	1.48
(1,222)	1:230:A:ASP:N	1:230:A:ASP:CA	1:230:A:ASP:C	1:231:A:ALA:N	3	1.48
(1,196)	1:217:A:GLU:N	1:217:A:GLU:CA	1:217:A:GLU:C	1:218:A:MET:N	10	1.48
(1,203)	1:220:A:VAL:C	1:221:A:SER:N	1:221:A:SER:CA	1:221:A:SER:C	2	1.47
(1,196)	1:217:A:GLU:N	1:217:A:GLU:CA	1:217:A:GLU:C	1:218:A:MET:N	4	1.47
(1,194)	1:216:A:GLY:N	1:216:A:GLY:CA	1:216:A:GLY:C	1:217:A:GLU:N	10	1.47
(1,18)	1:121:A:GLU:N	1:121:A:GLU:CA	1:121:A:GLU:C	1:122:A:VAL:N	3	1.47
(1,12)	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	1:119:A:LYS:N	1	1.47
(1,9)	1:116:A:PRO:C	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	6	1.47
(1,151)	1:191:A:ASP:C	1:192:A:ALA:N	1:192:A:ALA:CA	1:192:A:ALA:C	8	1.45
(1,1)	1:111:A:GLY:C	1:112:A:ILE:N	1:112:A:ILE:CA	1:112:A:ILE:C	8	1.45
(1,194)	1:216:A:GLY:N	1:216:A:GLY:CA	1:216:A:GLY:C	1:217:A:GLU:N	4	1.44
(1,130)	1:180:A:ALA:N	1:180:A:ALA:CA	1:180:A:ALA:C	1:181:A:GLY:N	6	1.43
(1,27)	1:127:A:ASP:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	8	1.43
(1,185)	1:211:A:MET:C	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	5	1.42
(1,105)	1:167:A:ALA:C	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	3	1.41
(1,185)	1:211:A:MET:C	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	7	1.4
(1,167)	1:199:A:GLY:C	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	4	1.4
(1,168)	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	1:201:A:ALA:N	8	1.39

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,66)	1:148:A:SER:N	1:148:A:SER:CA	1:148:A:SER:C	1:149:A:LYS:N	5	1.38
(1,27)	1:127:A:ASP:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	9	1.38
(1,19)	1:121:A:GLU:C	1:122:A:VAL:N	1:122:A:VAL:CA	1:122:A:VAL:C	7	1.38
(1,223)	1:230:A:ASP:C	1:231:A:ALA:N	1:231:A:ALA:CA	1:231:A:ALA:C	6	1.37
(1,167)	1:199:A:GLY:C	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	10	1.37
(1,76)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:SER:N	1	1.37
(1,251)	1:246:A:ALA:C	1:247:A:ASN:N	1:247:A:ASN:CA	1:247:A:ASN:C	2	1.36
(1,18)	1:121:A:GLU:N	1:121:A:GLU:CA	1:121:A:GLU:C	1:122:A:VAL:N	10	1.34
(1,13)	1:118:A:GLU:C	1:119:A:LYS:N	1:119:A:LYS:CA	1:119:A:LYS:C	10	1.34
(1,222)	1:230:A:ASP:N	1:230:A:ASP:CA	1:230:A:ASP:C	1:231:A:ALA:N	1	1.33
(1,151)	1:191:A:ASP:C	1:192:A:ALA:N	1:192:A:ALA:CA	1:192:A:ALA:C	4	1.33
(1,151)	1:191:A:ASP:C	1:192:A:ALA:N	1:192:A:ALA:CA	1:192:A:ALA:C	10	1.33
(1,30)	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	1:130:A:GLN:N	6	1.33
(1,13)	1:118:A:GLU:C	1:119:A:LYS:N	1:119:A:LYS:CA	1:119:A:LYS:C	8	1.33
(1,27)	1:127:A:ASP:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	1	1.32
(1,9)	1:116:A:PRO:C	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	3	1.32
(1,197)	1:217:A:GLU:C	1:218:A:MET:N	1:218:A:MET:CA	1:218:A:MET:C	9	1.31
(1,88)	1:159:A:ASP:N	1:159:A:ASP:CA	1:159:A:ASP:C	1:160:A:TRP:N	8	1.31
(1,18)	1:121:A:GLU:N	1:121:A:GLU:CA	1:121:A:GLU:C	1:122:A:VAL:N	4	1.31
(1,13)	1:118:A:GLU:C	1:119:A:LYS:N	1:119:A:LYS:CA	1:119:A:LYS:C	4	1.31
(1,167)	1:199:A:GLY:C	1:200:A:ILE:N	1:200:A:ILE:CA	1:200:A:ILE:C	5	1.3
(1,166)	1:199:A:GLY:N	1:199:A:GLY:CA	1:199:A:GLY:C	1:200:A:ILE:N	9	1.29
(1,245)	1:243:A:ALA:C	1:244:A:ILE:N	1:244:A:ILE:CA	1:244:A:ILE:C	5	1.28
(1,71)	1:150:A:GLU:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	7	1.27
(1,175)	1:203:A:ASN:C	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	4	1.26
(1,186)	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	1:213:A:THR:N	7	1.25
(1,15)	1:119:A:LYS:C	1:120:A:PHE:N	1:120:A:PHE:CA	1:120:A:PHE:C	3	1.25
(1,176)	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	1:205:A:TYR:N	10	1.24
(1,42)	1:135:A:VAL:N	1:135:A:VAL:CA	1:135:A:VAL:C	1:136:A:ARG:N	1	1.24
(1,23)	1:125:A:ASP:C	1:126:A:PHE:N	1:126:A:PHE:CA	1:126:A:PHE:C	5	1.24
(1,233)	1:237:A:ALA:C	1:238:A:ALA:N	1:238:A:ALA:CA	1:238:A:ALA:C	1	1.22
(1,209)	1:223:A:GLU:C	1:224:A:ARG:N	1:224:A:ARG:CA	1:224:A:ARG:C	8	1.21
(1,71)	1:150:A:GLU:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	9	1.2
(1,18)	1:121:A:GLU:N	1:121:A:GLU:CA	1:121:A:GLU:C	1:122:A:VAL:N	1	1.2
(1,198)	1:218:A:MET:N	1:218:A:MET:CA	1:218:A:MET:C	1:219:A:TYR:N	2	1.19
(1,182)	1:210:A:GLU:N	1:210:A:GLU:CA	1:210:A:GLU:C	1:211:A:MET:N	9	1.18
(1,203)	1:220:A:VAL:C	1:221:A:SER:N	1:221:A:SER:CA	1:221:A:SER:C	1	1.17
(1,185)	1:211:A:MET:C	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	4	1.17
(1,172)	1:202:A:ARG:N	1:202:A:ARG:CA	1:202:A:ARG:C	1:203:A:ASN:N	1	1.17
(1,152)	1:192:A:ALA:N	1:192:A:ALA:CA	1:192:A:ALA:C	1:193:A:ALA:N	7	1.17
(1,175)	1:203:A:ASN:C	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	10	1.16
(1,66)	1:148:A:SER:N	1:148:A:SER:CA	1:148:A:SER:C	1:149:A:LYS:N	9	1.16
(1,88)	1:159:A:ASP:N	1:159:A:ASP:CA	1:159:A:ASP:C	1:160:A:TRP:N	10	1.15
(1,9)	1:116:A:PRO:C	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	8	1.15
(1,185)	1:211:A:MET:C	1:212:A:HIS:N	1:212:A:HIS:CA	1:212:A:HIS:C	10	1.14
(1,54)	1:142:A:THR:N	1:142:A:THR:CA	1:142:A:THR:C	1:143:A:ASP:N	7	1.14
(1,106)	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	1:169:A:GLU:N	10	1.13
(1,38)	1:133:A:GLU:N	1:133:A:GLU:CA	1:133:A:GLU:C	1:134:A:GLU:N	9	1.13
(1,215)	1:226:A:THR:C	1:227:A:ARG:N	1:227:A:ARG:CA	1:227:A:ARG:C	1	1.12
(1,212)	1:225:A:PHE:N	1:225:A:PHE:CA	1:225:A:PHE:C	1:226:A:THR:N	5	1.12
(1,176)	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	1:205:A:TYR:N	4	1.12

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,70)	1:150:A:GLU:N	1:150:A:GLU:CA	1:150:A:GLU:C	1:151:A:LYS:N	2	1.12
(1,196)	1:217:A:GLU:N	1:217:A:GLU:CA	1:217:A:GLU:C	1:218:A:MET:N	6	1.11
(1,190)	1:214:A:CYS:N	1:214:A:CYS:CA	1:214:A:CYS:C	1:215:A:LEU:N	8	1.11
(1,203)	1:220:A:VAL:C	1:221:A:SER:N	1:221:A:SER:CA	1:221:A:SER:C	6	1.1
(1,123)	1:176:A:ALA:C	1:177:A:LEU:N	1:177:A:LEU:CA	1:177:A:LEU:C	1	1.1
(1,222)	1:230:A:ASP:N	1:230:A:ASP:CA	1:230:A:ASP:C	1:231:A:ALA:N	9	1.09
(1,137)	1:184:A:ALA:C	1:185:A:ASP:N	1:185:A:ASP:CA	1:185:A:ASP:C	7	1.09
(1,46)	1:137:A:GLU:N	1:137:A:GLU:CA	1:137:A:GLU:C	1:138:A:ARG:N	7	1.09
(1,190)	1:214:A:CYS:N	1:214:A:CYS:CA	1:214:A:CYS:C	1:215:A:LEU:N	9	1.08
(1,182)	1:210:A:GLU:N	1:210:A:GLU:CA	1:210:A:GLU:C	1:211:A:MET:N	4	1.08
(1,219)	1:228:A:ASN:C	1:229:A:ILE:N	1:229:A:ILE:CA	1:229:A:ILE:C	8	1.07
(1,259)	1:251:A:HIS:C	1:252:A:THR:N	1:252:A:THR:CA	1:252:A:THR:C	3	1.06
(1,175)	1:203:A:ASN:C	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	1	1.06
(1,106)	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	1:169:A:GLU:N	2	1.06
(1,88)	1:159:A:ASP:N	1:159:A:ASP:CA	1:159:A:ASP:C	1:160:A:TRP:N	4	1.06
(1,212)	1:225:A:PHE:N	1:225:A:PHE:CA	1:225:A:PHE:C	1:226:A:THR:N	2	1.05
(1,203)	1:220:A:VAL:C	1:221:A:SER:N	1:221:A:SER:CA	1:221:A:SER:C	9	1.05
(1,105)	1:167:A:ALA:C	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	6	1.03
(1,27)	1:127:A:ASP:C	1:128:A:PRO:N	1:128:A:PRO:CA	1:128:A:PRO:C	7	1.03
(1,176)	1:204:A:HIS:N	1:204:A:HIS:CA	1:204:A:HIS:C	1:205:A:TYR:N	3	1.02
(1,233)	1:237:A:ALA:C	1:238:A:ALA:N	1:238:A:ALA:CA	1:238:A:ALA:C	7	1.01
(1,198)	1:218:A:MET:N	1:218:A:MET:CA	1:218:A:MET:C	1:219:A:TYR:N	1	1.01
(1,106)	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	1:169:A:GLU:N	3	1.01
(1,71)	1:150:A:GLU:C	1:151:A:LYS:N	1:151:A:LYS:CA	1:151:A:LYS:C	8	1.01
(1,12)	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	1:119:A:LYS:N	8	1.01
(1,204)	1:221:A:SER:N	1:221:A:SER:CA	1:221:A:SER:C	1:222:A:ASP:N	8	1.0
(1,182)	1:210:A:GLU:N	1:210:A:GLU:CA	1:210:A:GLU:C	1:211:A:MET:N	10	1.0
(1,106)	1:168:A:ASP:N	1:168:A:ASP:CA	1:168:A:ASP:C	1:169:A:GLU:N	4	1.0