



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 08:28 AM UTC

PDB ID : 2MTP / pdb_00002mtp
BMRB ID : 25176
Title : The structure of Filamin repeat 21 bound to integrin
Authors : Liu, J.; Qin, J.
Deposited on : 2014-08-28

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

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

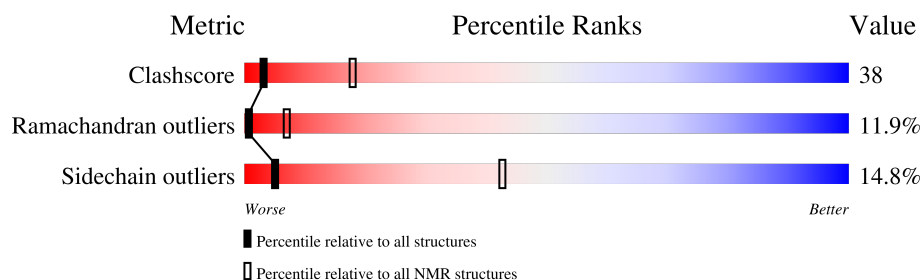
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 71%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	95	49% 41% 8% .
2	B	21	14% 33% 52%
3	C	47	9% 87%

2 Ensemble composition and analysis

This entry contains 20 models. Model 17 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:2237-A:2330, B:988-B:997, C:746-C:751 (110)	0.82	17

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

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

The models can be grouped into 4 clusters and 2 single-model clusters were found.

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

3 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 2464 atoms, of which 1195 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Filamin-A.

Mol	Chain	Residues	Atoms						Trace
1	A	95	Total	C	H	N	O	S	0
			1332	431	643	118	139	1	

- Molecule 2 is a protein called Integrin alpha-IIb.

Mol	Chain	Residues	Atoms					Trace
2	B	21	Total	C	H	N	O	0
			347	115	164	31	37	

- Molecule 3 is a protein called Integrin beta-3.

Mol	Chain	Residues	Atoms					Trace
3	C	47	Total	C	H	N	O	0
			785	250	388	72	75	

There are 2 discrepancies between the modelled and reference sequences:

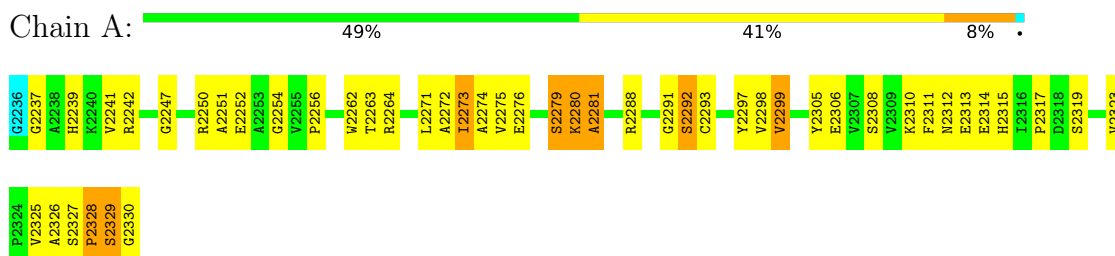
Chain	Residue	Modelled	Actual	Comment	Reference
C	717	LYS	LEU	engineered mutation	UNP P05106
C	718	LYS	LEU	engineered mutation	UNP P05106

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

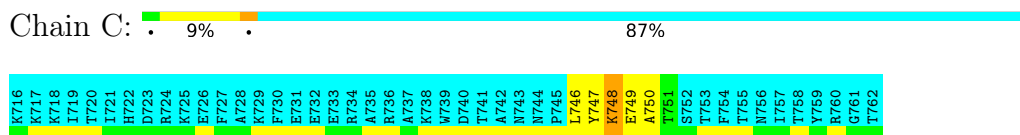
• Molecule 1: Filamin-A



• Molecule 2: Integrin alpha-IIb



• Molecule 3: Integrin beta-3



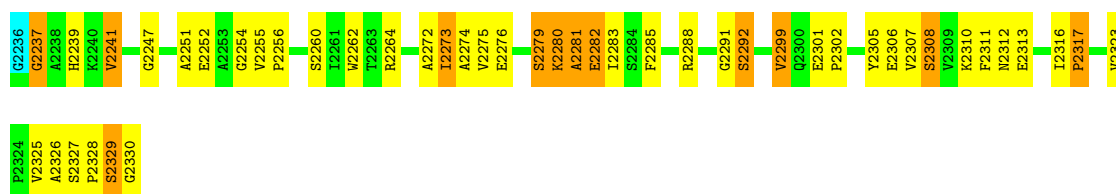
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

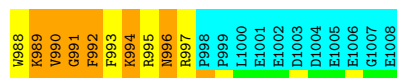
• Molecule 1: Filamin-A





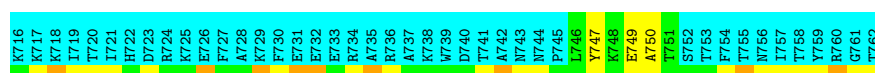
- Molecule 2: Integrin alpha-IIb

Chain B: 19% 29% 52%



- Molecule 3: Integrin beta-3

Chain C: 6% 6% 87%



4.2.2 Score per residue for model 2

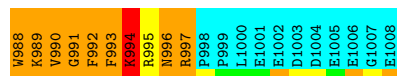
- Molecule 1: Filamin-A

Chain A: 51% 39% 9%



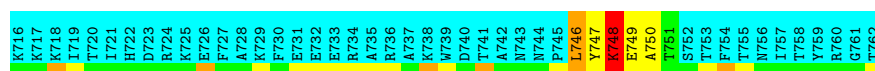
- Molecule 2: Integrin alpha-IIb

Chain B: 5% 38% 5% 52%



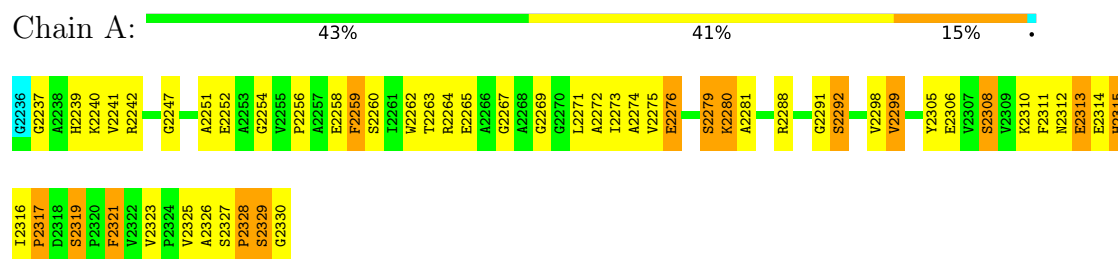
- Molecule 3: Integrin beta-3

Chain C: 6% 87%

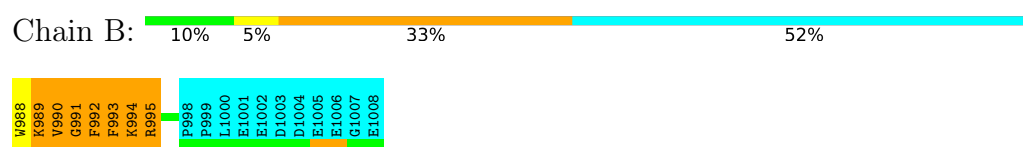


4.2.3 Score per residue for model 3

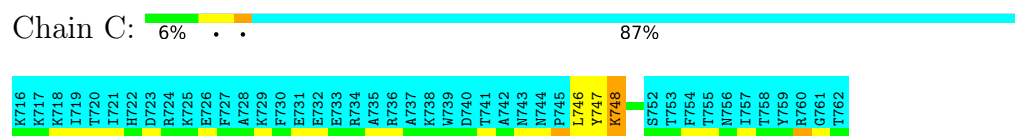
• Molecule 1: Filamin-A



• Molecule 2: Integrin alpha-IIb

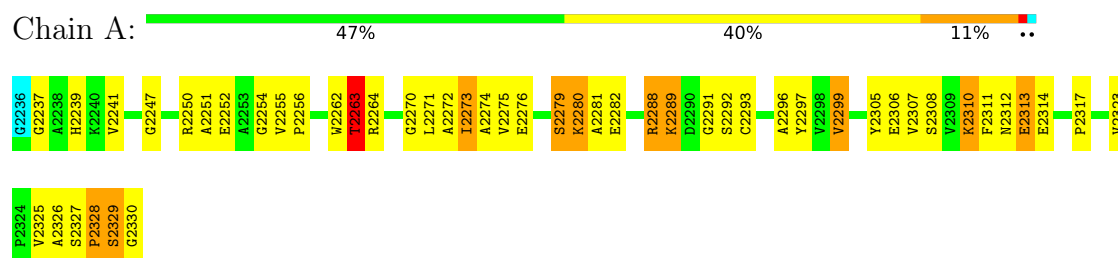


• Molecule 3: Integrin beta-3

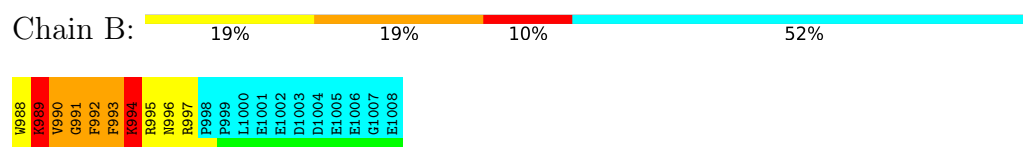


4.2.4 Score per residue for model 4

• Molecule 1: Filamin-A

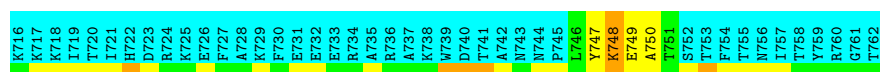


• Molecule 2: Integrin alpha-IIb



• Molecule 3: Integrin beta-3





4.2.5 Score per residue for model 5

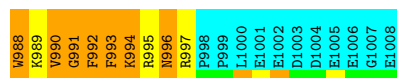
- Molecule 1: Filamin-A

Chain A: 46% 44% 8%



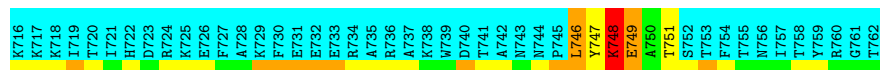
- Molecule 2: Integrin alpha-IIb

Chain B: 14% 33% 52%



- Molecule 3: Integrin beta-3

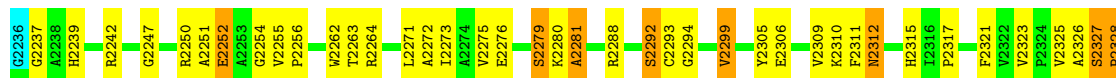
Chain C: 87%



4.2.6 Score per residue for model 6

- Molecule 1: Filamin-A

Chain A: 55% 35% 9%

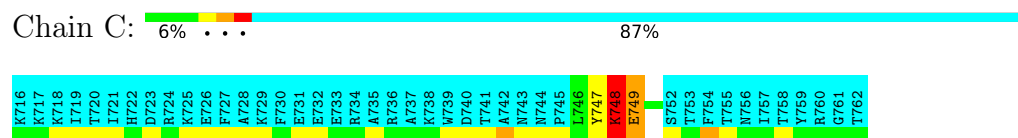


- Molecule 2: Integrin alpha-IIb

Chain B: 10% 33% 5% 52%

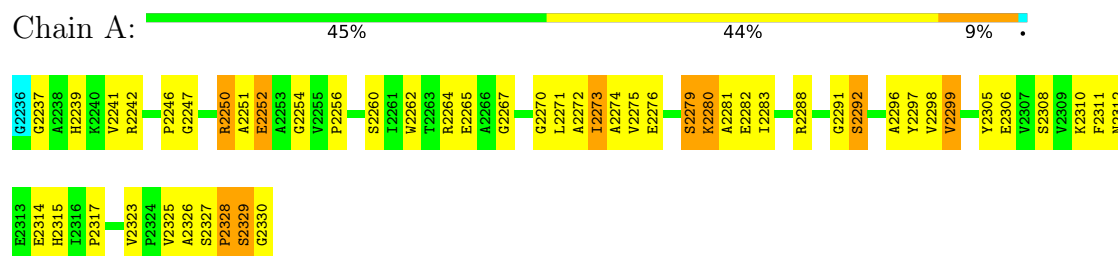


- Molecule 3: Integrin beta-3

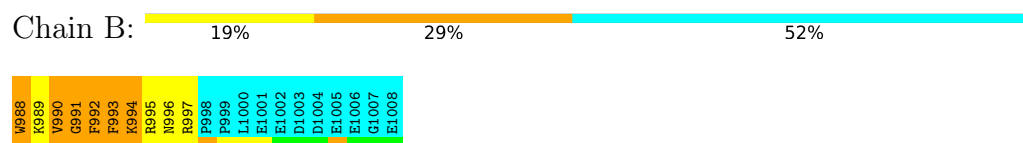


4.2.7 Score per residue for model 7

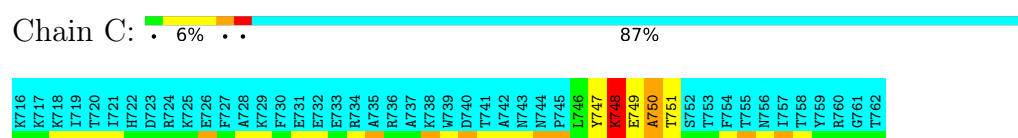
- Molecule 1: Filamin-A



- Molecule 2: Integrin alpha-IIb

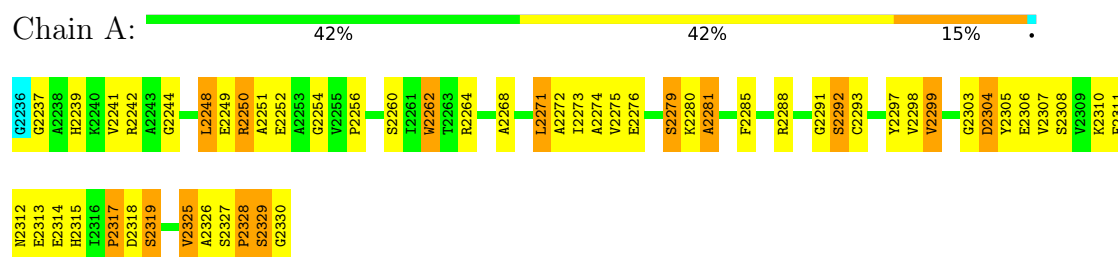


- Molecule 3: Integrin beta-3



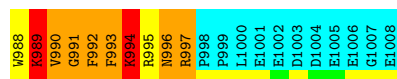
4.2.8 Score per residue for model 8

- Molecule 1: Filamin-A



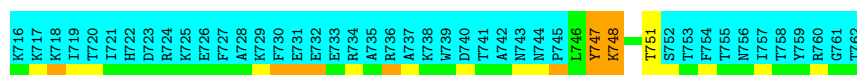
- Molecule 2: Integrin alpha-IIb

Chain B: 



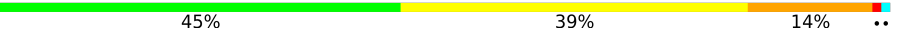
- Molecule 3: Integrin beta-3

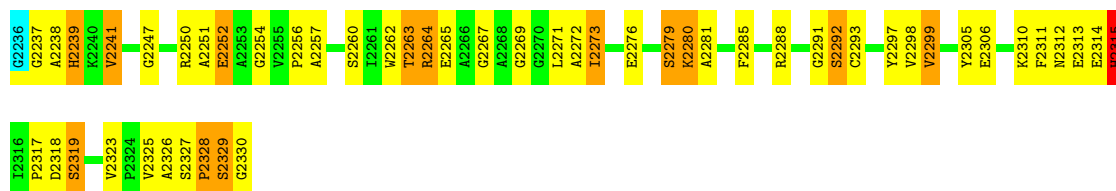
Chain C: 



4.2.9 Score per residue for model 9

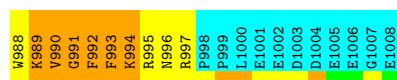
- Molecule 1: Filamin-A

Chain A: 



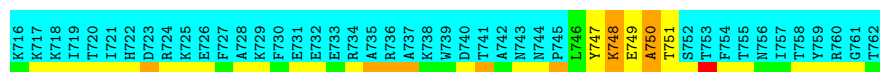
- Molecule 2: Integrin alpha-IIb

Chain B: 



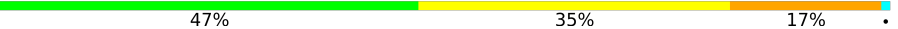
- Molecule 3: Integrin beta-3

Chain C: 



4.2.10 Score per residue for model 10

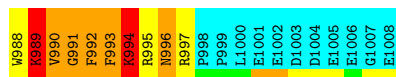
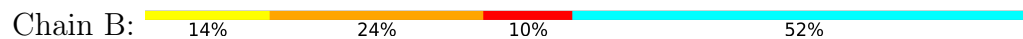
- Molecule 1: Filamin-A

Chain A: 

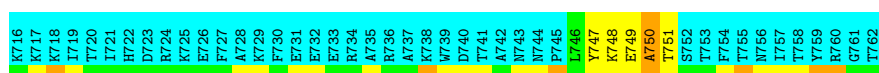




- Molecule 2: Integrin alpha-IIb

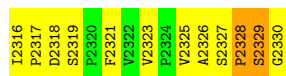


- Molecule 3: Integrin beta-3



4.2.11 Score per residue for model 11

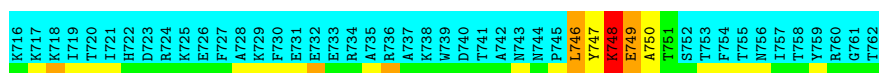
- Molecule 1: Filamin-A



- Molecule 2: Integrin alpha-IIb

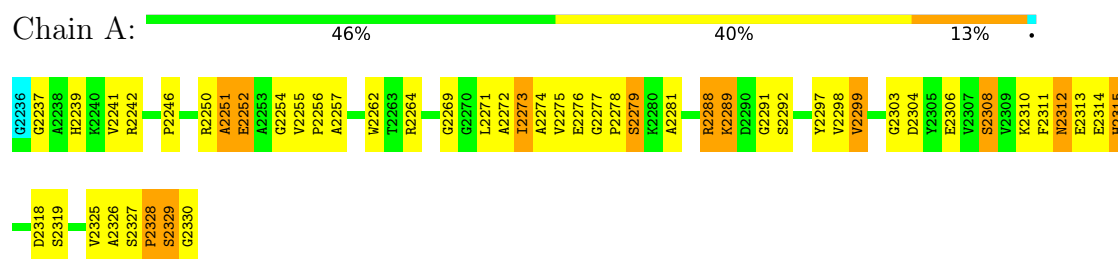


- Molecule 3: Integrin beta-3

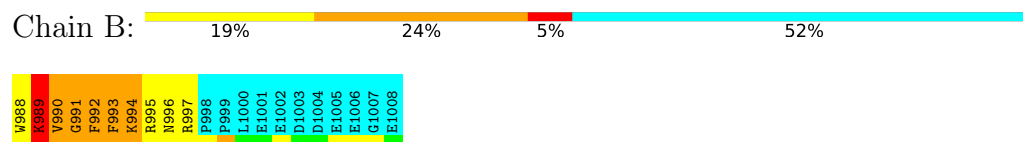


4.2.12 Score per residue for model 12

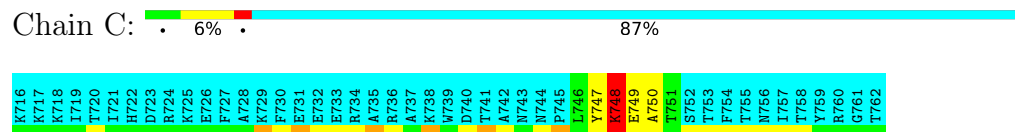
- Molecule 1: Filamin-A



- Molecule 2: Integrin alpha-IIb

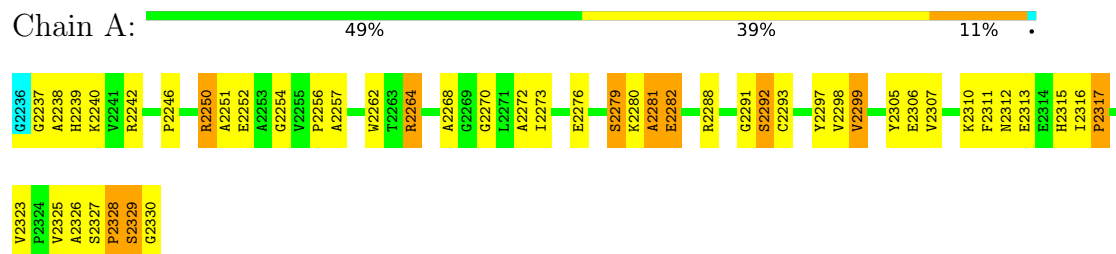


- Molecule 3: Integrin beta-3

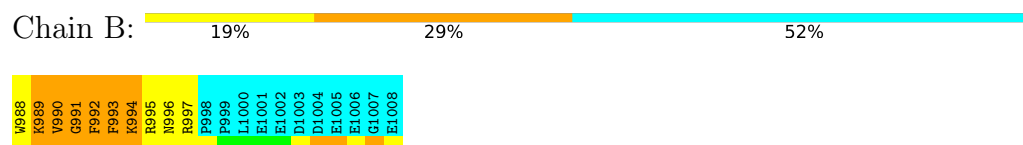


4.2.13 Score per residue for model 13

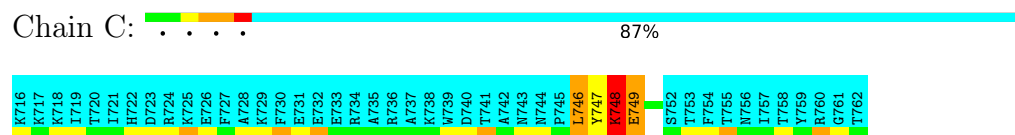
- Molecule 1: Filamin-A



- Molecule 2: Integrin alpha-IIb

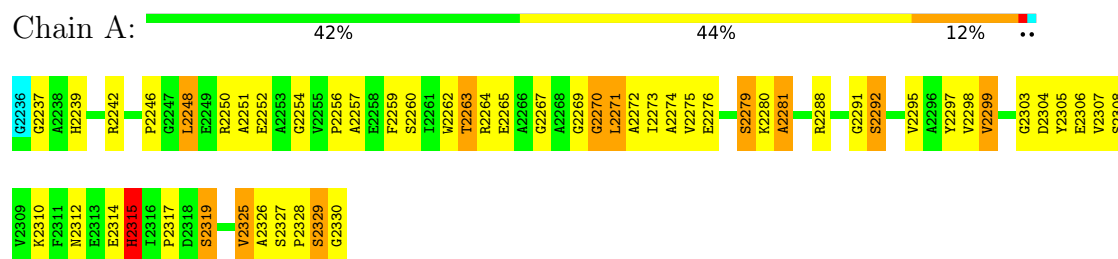


- Molecule 3: Integrin beta-3



4.2.14 Score per residue for model 14

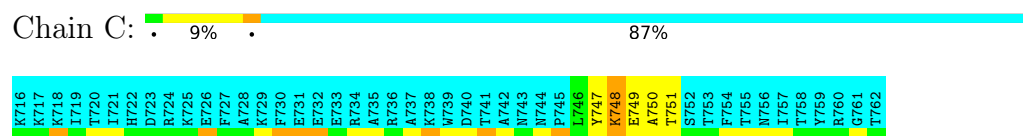
• Molecule 1: Filamin-A



• Molecule 2: Integrin alpha-IIb

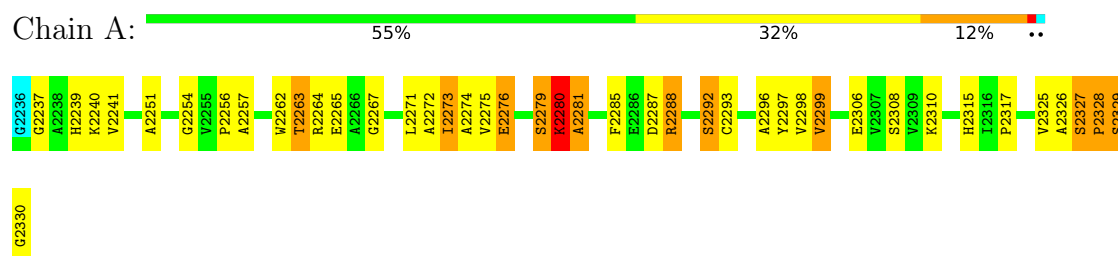


• Molecule 3: Integrin beta-3



4.2.15 Score per residue for model 15

• Molecule 1: Filamin-A

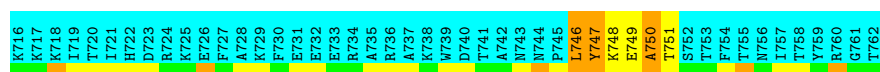


• Molecule 2: Integrin alpha-IIb



• Molecule 3: Integrin beta-3

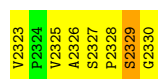




4.2.16 Score per residue for model 16

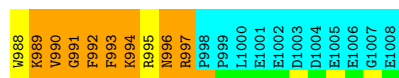
- Molecule 1: Filamin-A

Chain A: 47% 41% 11%



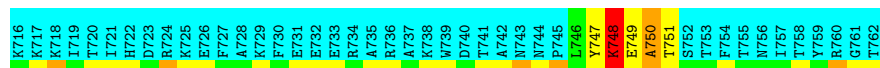
- Molecule 2: Integrin alpha-IIb

Chain B: 10% 38% 52%



- Molecule 3: Integrin beta-3

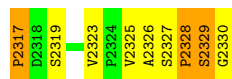
Chain C: 6% 87%



4.2.17 Score per residue for model 17 (medoid)

- Molecule 1: Filamin-A

Chain A: 48% 37% 14%

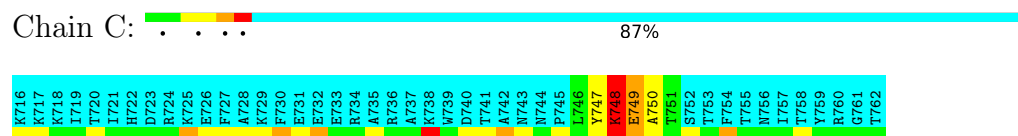


- Molecule 2: Integrin alpha-IIb

Chain B: 19% 29% 52%

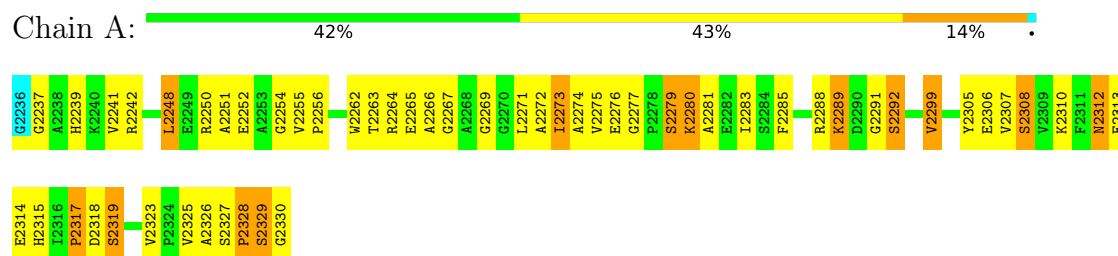


- Molecule 3: Integrin beta-3

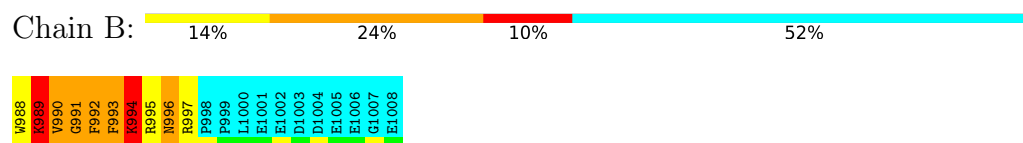


4.2.18 Score per residue for model 18

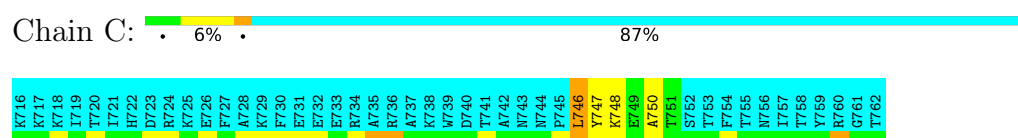
- Molecule 1: Filamin-A



- Molecule 2: Integrin alpha-IIb

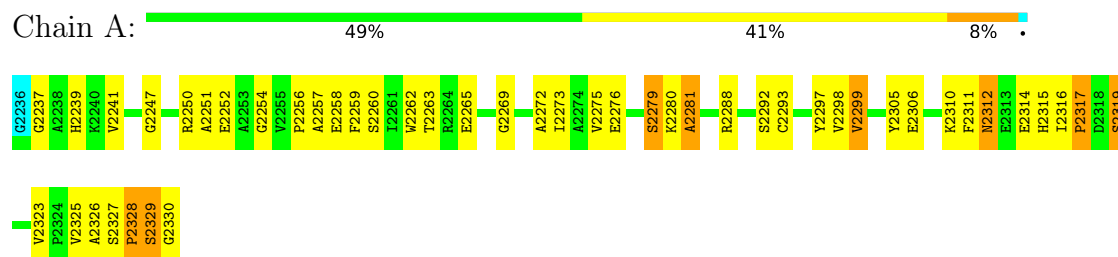


- Molecule 3: Integrin beta-3

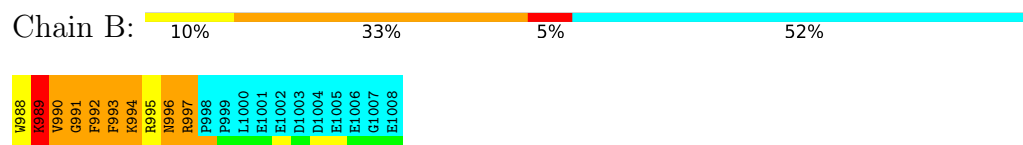


4.2.19 Score per residue for model 19

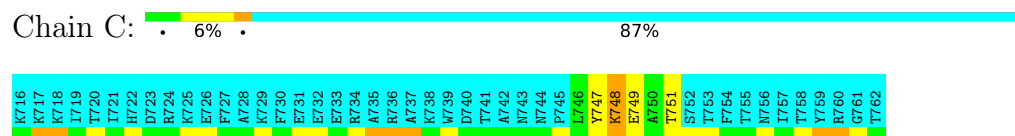
- Molecule 1: Filamin-A



- Molecule 2: Integrin alpha-IIb

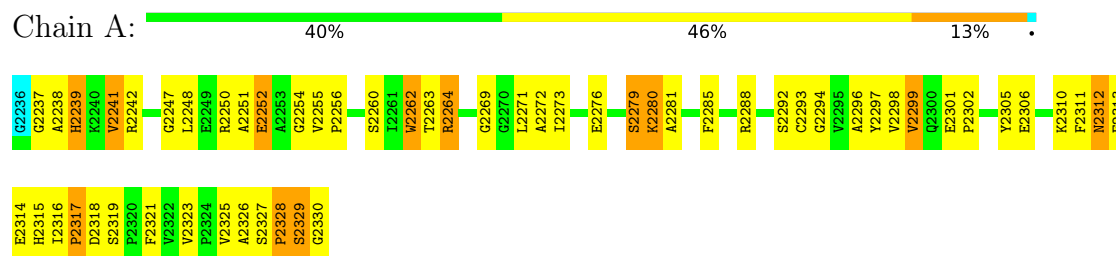


- Molecule 3: Integrin beta-3

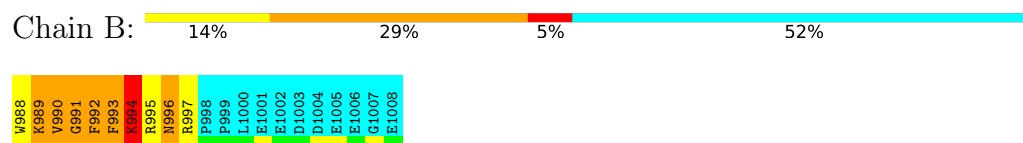


4.2.20 Score per residue for model 20

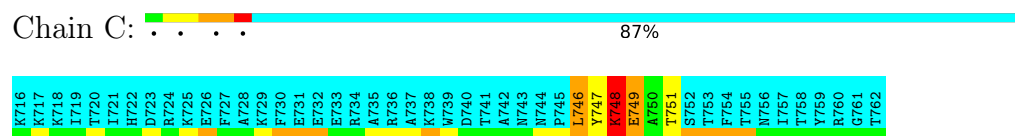
- Molecule 1: Filamin-A



- Molecule 2: Integrin alpha-IIb



- Molecule 3: Integrin beta-3



5 Refinement protocol and experimental data overview

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

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

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

Software name	Classification	Version
X-PLOR NIH	structure solution	
X-PLOR NIH	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1430
Number of shifts mapped to atoms	1429
Number of unparsed shifts	0
Number of shifts with mapping errors	1
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	71%

6 Model quality

6.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	1.50±0.01	1±1/702 (0.1± 0.1%)	1.18±0.01	0±0/952 (0.0± 0.0%)
2	B	1.47±0.02	0±0/99 (0.0± 0.0%)	1.24±0.03	1±0/132 (0.8± 0.0%)
3	C	1.32±0.04	0±0/51 (0.0± 0.0%)	0.92±0.05	0±0/69 (0.0± 0.0%)
All	All	1.49	12/17040 (0.1%)	1.17	20/23060 (0.1%)

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

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	3.2±0.7
All	All	0	65

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	2294	GLY	N-CA	7.47	1.50	1.44	6	2
1	A	2255	VAL	N-CA	6.30	1.50	1.45	12	6
1	A	2319	SER	N-CA	5.28	1.50	1.45	10	1
1	A	2270	GLY	N-CA	5.20	1.50	1.44	14	3

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	994	LYS	N-CA-C	-6.03	105.68	113.16	8	20

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	2288	ARG	Sidechain	20
1	A	2264	ARG	Sidechain	18
1	A	2242	ARG	Sidechain	14
1	A	2250	ARG	Sidechain	13

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	685	640	650	41±5
2	B	95	98	97	21±2
3	C	50	50	51	4±2
All	All	16600	15760	15960	1240

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 38.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:989:LYS:O	2:B:991:GLY:N	1.02	1.92	2	20
1:A:2262:TRP:CG	1:A:2293:CYS:HG	0.88	1.86	15	2
2:B:993:PHE:CD1	2:B:994:LYS:N	0.72	2.58	15	20
2:B:992:PHE:CD1	2:B:993:PHE:N	0.69	2.60	1	20
2:B:992:PHE:CE1	2:B:993:PHE:CD1	0.67	2.83	7	20
2:B:992:PHE:CG	2:B:993:PHE:N	0.66	2.63	7	20
2:B:990:VAL:HG13	2:B:991:GLY:H	0.65	1.51	20	1
1:A:2262:TRP:CD1	1:A:2293:CYS:HG	0.65	2.10	15	2
1:A:2283:ILE:N	1:A:2283:ILE:HD12	0.64	2.08	1	1
1:A:2239:HIS:CD2	1:A:2239:HIS:H	0.62	2.10	9	5
1:A:2311:PHE:CE2	1:A:2312:ASN:ND2	0.62	2.67	6	3
2:B:991:GLY:O	2:B:995:ARG:N	0.62	2.33	2	20
2:B:988:TRP:CE3	2:B:995:ARG:NH1	0.62	2.68	11	1
1:A:2321:PHE:N	1:A:2321:PHE:CD1	0.62	2.67	3	1
1:A:2262:TRP:HE1	1:A:2293:CYS:N	0.62	1.93	11	4
2:B:988:TRP:CZ3	2:B:995:ARG:NH1	0.61	2.69	11	3
1:A:2311:PHE:CE1	1:A:2312:ASN:ND2	0.61	2.68	12	3
1:A:2307:VAL:O	1:A:2307:VAL:HG23	0.61	1.96	2	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2275:VAL:O	1:A:2275:VAL:HG23	0.60	1.96	2	5
2:B:989:LYS:O	2:B:990:VAL:C	0.60	2.45	20	19
1:A:2262:TRP:NE1	1:A:2293:CYS:N	0.60	2.50	11	1
1:A:2254:GLY:N	1:A:2299:VAL:O	0.59	2.35	3	20
1:A:2262:TRP:CD1	1:A:2293:CYS:SG	0.59	2.96	11	2
1:A:2274:ALA:H	1:A:2308:SER:HG	0.58	1.41	15	3
1:A:2262:TRP:NE1	1:A:2293:CYS:H	0.58	1.96	11	2
2:B:988:TRP:CD1	2:B:989:LYS:H	0.58	2.16	16	3
1:A:2275:VAL:O	1:A:2275:VAL:HG13	0.58	1.97	11	2
1:A:2312:ASN:HD21	2:B:988:TRP:N	0.57	1.97	1	1
2:B:991:GLY:O	2:B:993:PHE:N	0.57	2.37	3	20
1:A:2262:TRP:CZ2	1:A:2293:CYS:SG	0.57	2.96	5	1
2:B:990:VAL:HG13	2:B:991:GLY:N	0.57	2.15	20	4
1:A:2305:TYR:CD1	1:A:2323:VAL:O	0.57	2.57	1	9
2:B:989:LYS:C	2:B:991:GLY:N	0.57	2.61	3	18
1:A:2305:TYR:CD2	1:A:2306:GLU:N	0.57	2.72	11	5
1:A:2312:ASN:ND2	2:B:988:TRP:N	0.57	2.52	1	1
1:A:2315:HIS:CD2	1:A:2315:HIS:O	0.57	2.58	15	3
2:B:988:TRP:O	2:B:989:LYS:O	0.57	2.22	19	11
2:B:989:LYS:N	2:B:989:LYS:CD	0.57	2.68	4	5
1:A:2262:TRP:CE2	1:A:2293:CYS:SG	0.57	2.95	11	2
1:A:2315:HIS:CG	1:A:2315:HIS:O	0.57	2.58	16	2
1:A:2317:PRO:O	1:A:2319:SER:N	0.57	2.37	19	5
1:A:2315:HIS:O	1:A:2315:HIS:CD2	0.56	2.58	16	2
1:A:2258:GLU:C	1:A:2259:PHE:CG	0.56	2.84	3	2
1:A:2262:TRP:HE1	1:A:2293:CYS:H	0.56	1.43	5	2
1:A:2312:ASN:HD22	1:A:2312:ASN:N	0.56	1.96	5	5
2:B:995:ARG:O	2:B:997:ARG:N	0.56	2.38	8	12
1:A:2271:LEU:HD12	1:A:2271:LEU:N	0.56	2.16	4	7
2:B:988:TRP:CH2	2:B:995:ARG:NH1	0.56	2.73	5	1
1:A:2273:ILE:O	3:C:750:ALA:HB1	0.56	2.01	1	7
1:A:2262:TRP:CD1	1:A:2262:TRP:N	0.56	2.72	2	13
1:A:2279:SER:OG	1:A:2280:LYS:N	0.56	2.38	7	10
1:A:2315:HIS:O	1:A:2315:HIS:CG	0.56	2.59	15	3
1:A:2251:ALA:O	1:A:2326:ALA:N	0.55	2.34	12	20
1:A:2273:ILE:O	3:C:751:THR:N	0.55	2.40	15	5
2:B:991:GLY:O	2:B:992:PHE:C	0.55	2.49	2	20
1:A:2276:GLU:O	1:A:2306:GLU:O	0.55	2.25	20	20
1:A:2312:ASN:OD1	1:A:2312:ASN:N	0.55	2.40	6	3
2:B:988:TRP:CZ3	2:B:995:ARG:CZ	0.55	2.89	11	1
1:A:2287:ASP:C	1:A:2288:ARG:HE	0.54	2.10	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2310:LYS:NZ	2:B:997:ARG:NH1	0.54	2.56	10	2
1:A:2258:GLU:C	1:A:2259:PHE:CD1	0.54	2.86	19	1
1:A:2305:TYR:CE1	1:A:2323:VAL:O	0.54	2.61	1	9
1:A:2276:GLU:OE1	1:A:2276:GLU:N	0.54	2.41	10	14
1:A:2274:ALA:HB3	1:A:2308:SER:OG	0.54	2.02	5	5
1:A:2279:SER:O	3:C:747:TYR:CG	0.54	2.61	1	8
1:A:2279:SER:O	3:C:747:TYR:CD1	0.54	2.61	3	18
1:A:2271:LEU:HD23	1:A:2272:ALA:N	0.54	2.18	8	2
1:A:2318:ASP:O	1:A:2321:PHE:CE1	0.54	2.60	11	2
2:B:997:ARG:NE	3:C:750:ALA:CB	0.54	2.71	14	1
1:A:2264:ARG:NH2	1:A:2293:CYS:SG	0.53	2.82	13	1
1:A:2282:GLU:N	1:A:2282:GLU:OE1	0.53	2.42	1	1
1:A:2263:THR:OG1	1:A:2311:PHE:CZ	0.53	2.62	4	1
1:A:2311:PHE:CE1	1:A:2312:ASN:CG	0.53	2.87	9	5
1:A:2271:LEU:N	1:A:2271:LEU:CD1	0.53	2.71	4	7
1:A:2297:TYR:OH	1:A:2305:TYR:CE1	0.53	2.62	14	3
1:A:2271:LEU:CD2	1:A:2271:LEU:N	0.53	2.72	20	1
1:A:2306:GLU:OE2	1:A:2307:VAL:N	0.53	2.42	11	1
1:A:2252:GLU:OE2	1:A:2326:ALA:HB3	0.53	2.03	3	6
1:A:2311:PHE:CE2	1:A:2312:ASN:CG	0.53	2.87	13	2
1:A:2304:ASP:N	1:A:2304:ASP:OD1	0.53	2.42	10	4
2:B:997:ARG:NH1	3:C:748:LYS:O	0.52	2.43	6	1
1:A:2277:GLY:O	1:A:2279:SER:N	0.52	2.42	12	1
1:A:2237:GLY:O	1:A:2239:HIS:N	0.52	2.42	16	20
1:A:2258:GLU:O	1:A:2259:PHE:CD2	0.52	2.62	3	1
1:A:2312:ASN:ND2	1:A:2314:GLU:OE2	0.52	2.42	4	1
1:A:2274:ALA:N	1:A:2308:SER:OG	0.52	2.39	17	5
1:A:2257:ALA:N	1:A:2297:TYR:O	0.52	2.41	5	10
1:A:2303:GLY:O	1:A:2325:VAL:N	0.52	2.42	8	3
1:A:2237:GLY:C	1:A:2239:HIS:N	0.52	2.67	3	20
1:A:2273:ILE:O	3:C:750:ALA:CB	0.52	2.58	2	6
1:A:2274:ALA:HB3	1:A:2308:SER:HB2	0.52	1.80	1	5
1:A:2282:GLU:N	1:A:2282:GLU:CD	0.52	2.68	1	1
1:A:2315:HIS:ND1	1:A:2319:SER:OG	0.52	2.41	17	2
1:A:2311:PHE:CE2	1:A:2312:ASN:OD1	0.52	2.62	13	2
1:A:2262:TRP:CE2	1:A:2292:SER:OG	0.52	2.63	19	2
1:A:2280:LYS:CG	1:A:2281:ALA:H	0.52	2.18	11	10
1:A:2285:PHE:N	1:A:2285:PHE:CD1	0.52	2.77	9	3
1:A:2328:PRO:O	1:A:2330:GLY:N	0.52	2.43	7	20
3:C:746:LEU:O	3:C:748:LYS:N	0.52	2.43	15	1
1:A:2282:GLU:CD	1:A:2282:GLU:N	0.51	2.67	13	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2262:TRP:CG	1:A:2293:CYS:SG	0.51	3.00	15	2
1:A:2289:LYS:CB	1:A:2289:LYS:NZ	0.51	2.73	4	2
1:A:2259:PHE:CE1	1:A:2295:VAL:O	0.51	2.63	14	1
2:B:996:ASN:HD22	2:B:996:ASN:N	0.51	2.02	1	2
1:A:2240:LYS:NZ	1:A:2240:LYS:CB	0.51	2.73	10	1
2:B:991:GLY:O	2:B:994:LYS:N	0.51	2.44	7	15
1:A:2321:PHE:CD1	1:A:2321:PHE:N	0.51	2.77	10	1
1:A:2262:TRP:CZ2	1:A:2292:SER:OG	0.51	2.64	17	1
1:A:2274:ALA:CB	2:B:997:ARG:HH12	0.51	2.19	16	1
1:A:2259:PHE:CE1	1:A:2297:TYR:CZ	0.51	2.99	19	1
1:A:2247:GLY:O	1:A:2323:VAL:HG13	0.51	2.06	11	6
1:A:2296:ALA:O	1:A:2297:TYR:CD1	0.51	2.64	20	2
2:B:990:VAL:O	2:B:991:GLY:C	0.50	2.54	11	19
2:B:996:ASN:N	2:B:996:ASN:ND2	0.50	2.58	1	2
1:A:2311:PHE:CD2	1:A:2312:ASN:OD1	0.50	2.64	6	1
2:B:996:ASN:O	2:B:997:ARG:C	0.50	2.55	17	17
1:A:2293:CYS:SG	1:A:2293:CYS:O	0.50	2.69	11	3
1:A:2274:ALA:HB2	2:B:997:ARG:NH1	0.50	2.22	4	1
1:A:2283:ILE:N	1:A:2283:ILE:CD1	0.50	2.74	1	1
1:A:2249:GLU:CD	1:A:2250:ARG:NH2	0.50	2.70	8	1
1:A:2263:THR:C	1:A:2265:GLU:N	0.50	2.68	9	3
1:A:2275:VAL:O	1:A:2275:VAL:CG2	0.50	2.59	2	5
2:B:993:PHE:CZ	2:B:994:LYS:CD	0.50	2.94	7	9
1:A:2275:VAL:HG22	3:C:749:GLU:O	0.50	2.06	2	1
1:A:2262:TRP:CD2	1:A:2293:CYS:SG	0.50	3.01	15	2
1:A:2310:LYS:NZ	2:B:997:ARG:HH11	0.50	2.05	19	1
1:A:2263:THR:OG1	1:A:2311:PHE:CE1	0.50	2.65	20	1
2:B:993:PHE:CG	2:B:994:LYS:N	0.49	2.79	1	1
1:A:2280:LYS:NZ	1:A:2280:LYS:CB	0.49	2.75	2	3
1:A:2259:PHE:CE1	1:A:2297:TYR:CE2	0.49	3.00	19	2
1:A:2269:GLY:CA	2:B:988:TRP:N	0.49	2.75	14	2
1:A:2272:ALA:O	1:A:2310:LYS:O	0.49	2.31	4	20
1:A:2310:LYS:NZ	1:A:2313:GLU:OE1	0.49	2.43	3	2
1:A:2239:HIS:CD2	1:A:2239:HIS:N	0.49	2.80	20	5
1:A:2265:GLU:C	1:A:2267:GLY:N	0.49	2.68	16	6
1:A:2298:VAL:HG12	1:A:2299:VAL:N	0.49	2.23	19	14
1:A:2305:TYR:CG	1:A:2306:GLU:N	0.49	2.81	7	4
1:A:2287:ASP:CG	1:A:2288:ARG:N	0.49	2.71	10	1
1:A:2262:TRP:HE1	1:A:2292:SER:CA	0.49	2.20	11	1
1:A:2277:GLY:C	1:A:2279:SER:H	0.49	2.15	12	1
2:B:996:ASN:H	2:B:996:ASN:HD22	0.49	1.50	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2312:ASN:O	1:A:2313:GLU:CB	0.49	2.60	16	6
1:A:2262:TRP:NE1	1:A:2292:SER:OG	0.49	2.46	9	3
1:A:2293:CYS:O	1:A:2293:CYS:SG	0.49	2.71	4	1
1:A:2289:LYS:H	1:A:2289:LYS:CD	0.49	2.21	18	1
1:A:2285:PHE:CD1	1:A:2285:PHE:N	0.49	2.80	20	3
1:A:2292:SER:OG	1:A:2293:CYS:N	0.48	2.42	9	6
1:A:2271:LEU:N	1:A:2271:LEU:HD22	0.48	2.23	20	1
2:B:991:GLY:C	2:B:995:ARG:CB	0.48	2.86	16	20
1:A:2310:LYS:HZ1	2:B:997:ARG:NH1	0.48	2.06	10	1
1:A:2312:ASN:OD1	2:B:989:LYS:NZ	0.48	2.41	19	1
2:B:996:ASN:O	2:B:997:ARG:O	0.48	2.32	16	4
1:A:2309:VAL:HG21	1:A:2321:PHE:CD1	0.48	2.43	5	2
2:B:996:ASN:H	2:B:996:ASN:ND2	0.48	2.07	19	1
2:B:990:VAL:O	2:B:991:GLY:O	0.48	2.31	11	15
1:A:2259:PHE:CZ	1:A:2297:TYR:OH	0.48	2.66	19	1
1:A:2275:VAL:O	1:A:2275:VAL:CG1	0.48	2.62	11	1
1:A:2263:THR:O	1:A:2265:GLU:N	0.48	2.47	9	1
1:A:2270:GLY:O	1:A:2311:PHE:CE1	0.47	2.67	7	1
1:A:2248:LEU:HD13	1:A:2248:LEU:O	0.47	2.09	18	3
1:A:2265:GLU:O	1:A:2267:GLY:N	0.47	2.48	16	2
2:B:990:VAL:C	2:B:994:LYS:HZ2	0.47	2.17	1	1
1:A:2239:HIS:N	1:A:2239:HIS:ND1	0.47	2.61	2	2
1:A:2246:PRO:O	1:A:2250:ARG:O	0.47	2.33	13	7
3:C:748:LYS:CD	3:C:748:LYS:C	0.47	2.88	18	3
1:A:2311:PHE:CE1	1:A:2312:ASN:OD1	0.47	2.67	16	1
1:A:2265:GLU:C	1:A:2267:GLY:H	0.47	2.18	18	7
2:B:988:TRP:O	2:B:989:LYS:C	0.47	2.58	17	11
2:B:988:TRP:CD1	2:B:989:LYS:N	0.47	2.83	9	5
1:A:2262:TRP:NE1	1:A:2293:CYS:SG	0.47	2.88	11	1
1:A:2311:PHE:CZ	1:A:2312:ASN:ND2	0.47	2.83	17	1
1:A:2274:ALA:O	1:A:2308:SER:O	0.46	2.34	3	3
1:A:2239:HIS:C	1:A:2241:VAL:H	0.46	2.18	1	14
2:B:997:ARG:NH2	3:C:748:LYS:O	0.46	2.46	12	1
1:A:2327:SER:O	1:A:2328:PRO:C	0.46	2.59	12	20
1:A:2259:PHE:CD1	1:A:2295:VAL:O	0.46	2.69	14	1
1:A:2288:ARG:NH2	1:A:2292:SER:OG	0.46	2.49	15	1
1:A:2247:GLY:O	1:A:2323:VAL:CG1	0.46	2.64	16	8
1:A:2237:GLY:O	1:A:2240:LYS:N	0.46	2.49	16	5
1:A:2272:ALA:HB1	3:C:751:THR:O	0.46	2.10	14	1
2:B:995:ARG:O	2:B:996:ASN:C	0.46	2.59	20	10
3:C:748:LYS:O	3:C:749:GLU:O	0.46	2.34	13	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:988:TRP:N	2:B:992:PHE:CG	0.46	2.84	2	1
1:A:2288:ARG:O	1:A:2291:GLY:N	0.46	2.43	5	5
1:A:2312:ASN:N	1:A:2312:ASN:ND2	0.46	2.64	5	1
2:B:990:VAL:O	2:B:993:PHE:CE1	0.46	2.69	1	11
1:A:2275:VAL:N	3:C:749:GLU:O	0.45	2.49	1	3
2:B:996:ASN:ND2	2:B:996:ASN:N	0.45	2.62	20	1
1:A:2275:VAL:O	3:C:747:TYR:O	0.45	2.34	15	3
2:B:990:VAL:CG1	2:B:991:GLY:N	0.45	2.80	7	2
1:A:2276:GLU:OE2	3:C:747:TYR:O	0.45	2.35	7	1
1:A:2297:TYR:CD1	1:A:2297:TYR:N	0.45	2.85	9	1
1:A:2317:PRO:C	1:A:2319:SER:N	0.45	2.75	9	1
1:A:2311:PHE:C	1:A:2313:GLU:N	0.45	2.73	1	4
1:A:2315:HIS:O	1:A:2316:ILE:C	0.45	2.60	2	3
3:C:746:LEU:H	3:C:746:LEU:HD23	0.45	1.72	13	3
1:A:2314:GLU:O	1:A:2315:HIS:C	0.45	2.60	18	12
1:A:2262:TRP:CZ3	1:A:2264:ARG:NE	0.45	2.85	20	1
3:C:748:LYS:O	3:C:748:LYS:CD	0.45	2.65	13	1
3:C:749:GLU:O	3:C:750:ALA:O	0.45	2.35	7	5
1:A:2311:PHE:O	1:A:2312:ASN:C	0.45	2.60	16	2
1:A:2237:GLY:C	1:A:2239:HIS:H	0.44	2.21	7	14
1:A:2307:VAL:O	1:A:2307:VAL:CG2	0.44	2.65	2	1
1:A:2291:GLY:O	1:A:2292:SER:O	0.44	2.35	17	11
1:A:2257:ALA:HB3	1:A:2297:TYR:CE1	0.44	2.48	11	3
1:A:2283:ILE:O	1:A:2283:ILE:HG23	0.44	2.11	16	2
1:A:2328:PRO:O	1:A:2329:SER:C	0.44	2.61	4	20
2:B:988:TRP:N	2:B:992:PHE:CB	0.44	2.80	2	1
1:A:2313:GLU:CD	1:A:2313:GLU:O	0.44	2.60	8	5
1:A:2276:GLU:CD	3:C:747:TYR:O	0.44	2.60	16	2
1:A:2296:ALA:C	1:A:2297:TYR:CD1	0.44	2.95	15	2
1:A:2277:GLY:C	1:A:2279:SER:N	0.44	2.74	12	1
1:A:2316:ILE:O	1:A:2317:PRO:C	0.44	2.61	13	2
1:A:2274:ALA:O	1:A:2308:SER:OG	0.44	2.36	16	5
1:A:2274:ALA:N	1:A:2308:SER:HG	0.44	2.10	17	2
1:A:2313:GLU:OE2	2:B:994:LYS:CB	0.44	2.65	2	1
1:A:2280:LYS:CG	1:A:2281:ALA:N	0.44	2.81	11	10
1:A:2276:GLU:OE1	1:A:2308:SER:OG	0.44	2.36	8	1
1:A:2311:PHE:CD1	1:A:2311:PHE:C	0.44	2.95	16	2
1:A:2271:LEU:N	1:A:2271:LEU:HD12	0.44	2.28	12	1
1:A:2263:THR:O	1:A:2263:THR:OG1	0.43	2.35	14	2
1:A:2270:GLY:C	2:B:988:TRP:CZ2	0.43	2.95	11	1
1:A:2279:SER:O	3:C:747:TYR:CB	0.43	2.66	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2301:GLU:OE2	1:A:2302:PRO:O	0.43	2.37	1	3
1:A:2316:ILE:O	1:A:2317:PRO:O	0.43	2.37	3	4
1:A:2313:GLU:O	1:A:2313:GLU:OE1	0.43	2.37	18	3
1:A:2279:SER:O	1:A:2280:LYS:O	0.43	2.37	18	1
1:A:2312:ASN:O	1:A:2312:ASN:OD1	0.43	2.37	11	2
1:A:2276:GLU:OE2	3:C:748:LYS:CB	0.43	2.66	2	2
1:A:2251:ALA:C	1:A:2252:GLU:OE1	0.43	2.62	8	17
2:B:989:LYS:C	2:B:991:GLY:H	0.43	2.21	3	1
1:A:2237:GLY:O	1:A:2238:ALA:C	0.43	2.60	16	3
2:B:988:TRP:CG	2:B:989:LYS:N	0.43	2.86	9	1
1:A:2303:GLY:C	1:A:2304:ASP:OD1	0.43	2.62	12	1
1:A:2313:GLU:OE2	2:B:994:LYS:O	0.43	2.37	13	2
2:B:988:TRP:C	2:B:989:LYS:O	0.43	2.60	20	2
1:A:2276:GLU:OE1	1:A:2276:GLU:CA	0.43	2.66	15	1
1:A:2280:LYS:HB2	1:A:2280:LYS:HZ3	0.43	1.72	15	1
1:A:2312:ASN:OD1	2:B:988:TRP:O	0.43	2.36	1	3
1:A:2298:VAL:CG1	1:A:2299:VAL:N	0.43	2.81	5	2
1:A:2318:ASP:O	1:A:2319:SER:C	0.43	2.61	18	2
1:A:2318:ASP:O	1:A:2318:ASP:OD1	0.43	2.37	9	2
1:A:2301:GLU:CD	1:A:2301:GLU:C	0.42	2.86	11	3
1:A:2274:ALA:O	1:A:2276:GLU:OE1	0.42	2.37	4	1
1:A:2307:VAL:CG2	1:A:2323:VAL:HG21	0.42	2.44	4	1
1:A:2263:THR:O	1:A:2264:ARG:C	0.42	2.62	9	1
1:A:2280:LYS:CB	1:A:2280:LYS:NZ	0.42	2.83	15	1
1:A:2259:PHE:CZ	1:A:2297:TYR:CZ	0.42	3.07	19	1
1:A:2275:VAL:C	1:A:2276:GLU:OE1	0.42	2.62	10	1
1:A:2262:TRP:NE1	1:A:2293:CYS:HG	0.42	2.05	11	1
2:B:988:TRP:CE2	2:B:992:PHE:CB	0.42	3.02	14	1
1:A:2311:PHE:O	1:A:2314:GLU:N	0.42	2.46	16	1
2:B:996:ASN:ND2	2:B:996:ASN:H	0.42	2.13	1	1
2:B:995:ARG:CG	2:B:995:ARG:NH1	0.42	2.82	3	1
1:A:2313:GLU:OE1	2:B:994:LYS:O	0.42	2.37	5	2
1:A:2239:HIS:H	1:A:2239:HIS:HD1	0.42	1.58	4	1
1:A:2262:TRP:HE1	1:A:2292:SER:C	0.42	2.22	8	1
3:C:749:GLU:O	3:C:750:ALA:C	0.42	2.60	10	3
1:A:2244:GLY:O	1:A:2260:SER:OG	0.42	2.36	17	2
1:A:2297:TYR:C	1:A:2297:TYR:CD1	0.41	2.98	5	1
1:A:2311:PHE:CD2	1:A:2312:ASN:CG	0.41	2.98	6	1
1:A:2275:VAL:HG11	1:A:2297:TYR:CE2	0.41	2.50	7	1
3:C:748:LYS:CD	3:C:748:LYS:O	0.41	2.68	7	1
3:C:750:ALA:O	3:C:751:THR:OG1	0.41	2.37	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2259:PHE:CD1	1:A:2259:PHE:C	0.41	2.98	2	1
1:A:2250:ARG:O	1:A:2251:ALA:HB2	0.41	2.14	12	1
1:A:2287:ASP:O	1:A:2287:ASP:OD1	0.41	2.37	17	1
1:A:2287:ASP:OD1	1:A:2287:ASP:N	0.41	2.46	15	1
2:B:988:TRP:N	2:B:992:PHE:HB3	0.41	2.31	2	1
1:A:2312:ASN:OD1	2:B:988:TRP:N	0.41	2.54	17	1
1:A:2287:ASP:CG	1:A:2288:ARG:H	0.41	2.22	10	1
1:A:2289:LYS:C	1:A:2291:GLY:N	0.41	2.77	2	1
1:A:2274:ALA:O	1:A:2308:SER:CB	0.41	2.69	5	3
1:A:2270:GLY:H	2:B:988:TRP:N	0.41	2.14	14	1
3:C:748:LYS:CD	3:C:748:LYS:N	0.40	2.84	17	1
1:A:2274:ALA:N	1:A:2308:SER:O	0.40	2.54	8	1
1:A:2317:PRO:C	1:A:2319:SER:H	0.40	2.23	9	1
1:A:2277:GLY:O	3:C:747:TYR:O	0.40	2.39	18	1
1:A:2274:ALA:O	1:A:2308:SER:N	0.40	2.53	4	1
1:A:2288:ARG:O	1:A:2289:LYS:C	0.40	2.65	4	1
1:A:2272:ALA:C	1:A:2273:ILE:CG2	0.40	2.95	11	1
3:C:746:LEU:H	3:C:746:LEU:CD2	0.40	2.30	13	1

6.3 Torsion angles ⓘ

6.3.1 Protein backbone ⓘ

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	93/95 (98%)	73±2 (79±2%)	13±2 (14±2%)	7±1 (7±1%)	2	16
2	B	9/21 (43%)	4±0 (40±5%)	1±1 (9±8%)	5±1 (51±9%)	0	0
3	C	6/47 (13%)	3±1 (47±15%)	1±1 (24±12%)	2±1 (29±12%)	0	1
All	All	2160/3260 (66%)	1596 (74%)	306 (14%)	258 (12%)	1	7

All 25 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	2256	PRO	20

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Mol	Chain	Res	Type	Models (Total)
1	A	2281	ALA	20
1	A	2329	SER	20
2	B	990	VAL	20
2	B	991	GLY	20
2	B	992	PHE	20
1	A	2292	SER	17
1	A	2317	PRO	17
1	A	2328	PRO	17
2	B	989	LYS	16
3	C	748	LYS	16
2	B	996	ASN	12
3	C	749	GLU	8
1	A	2280	LYS	7
3	C	750	ALA	5
2	B	997	ARG	4
3	C	746	LEU	4
1	A	2315	HIS	4
1	A	2263	THR	4
3	C	747	TYR	2
1	A	2237	GLY	1
1	A	2324	PRO	1
1	A	2251	ALA	1
1	A	2278	PRO	1
1	A	2238	ALA	1

6.3.2 Protein sidechains ⓘ

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	69/69 (100%)	60±2 (87±3%)	9±2 (13±3%)	6	46
2	B	9/19 (47%)	7±1 (77±11%)	2±1 (23±11%)	2	28
3	C	5/41 (12%)	4±1 (80±11%)	1±1 (20±11%)	3	33
All	All	1660/2580 (64%)	1414 (85%)	246 (15%)	5	43

All 42 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	2273	ILE	20
1	A	2279	SER	20
1	A	2299	VAL	20
1	A	2325	VAL	20
2	B	993	PHE	19
3	C	748	LYS	17
1	A	2319	SER	10
1	A	2260	SER	8
1	A	2252	GLU	8
1	A	2263	THR	8
1	A	2280	LYS	7
2	B	994	LYS	7
2	B	989	LYS	7
1	A	2312	ASN	7
1	A	2308	SER	5
1	A	2276	GLU	5
1	A	2241	VAL	4
2	B	988	TRP	4
1	A	2248	LEU	4
1	A	2315	HIS	4
1	A	2307	VAL	3
1	A	2289	LYS	3
3	C	746	LEU	3
1	A	2275	VAL	3
1	A	2262	TRP	3
1	A	2239	HIS	3
1	A	2282	GLU	2
1	A	2313	GLU	2
1	A	2321	PHE	2
1	A	2310	LYS	2
1	A	2327	SER	2
1	A	2271	LEU	2
2	B	997	ARG	2
1	A	2298	VAL	2
1	A	2259	PHE	1
2	B	995	ARG	1
1	A	2283	ILE	1
1	A	2304	ASP	1
1	A	2240	LYS	1
1	A	2242	ARG	1
2	B	996	ASN	1
1	A	2305	TYR	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](#)

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

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 71% for the well-defined parts and 67% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chemical_shifts_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	1430
Number of shifts mapped to atoms	1429
Number of unparsed shifts	0
Number of shifts with mapping errors	1
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	148

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	A	2315	HIS	HE2	7.103	.	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
$^{13}\text{C}_\alpha$	142	-0.18 ± 0.11	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	127	-0.21 ± 0.14	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	133	0.00 ± 0.00	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 71%, i.e. 1004 atoms were assigned a chemical shift out of a possible 1407. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	417/548 (76%)	225/226 (100%)	100/220 (45%)	92/102 (90%)
Sidechain	559/736 (76%)	378/478 (79%)	181/230 (79%)	0/28 (0%)
Aromatic	28/123 (23%)	27/62 (44%)	1/59 (2%)	0/2 (0%)
Overall	1004/1407 (71%)	630/766 (82%)	282/509 (55%)	92/132 (70%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 67%, i.e. 1428 atoms were assigned a chemical shift out of a possible 2128. 0 out of 16 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	598/810 (74%)	323/332 (97%)	142/326 (44%)	133/152 (88%)
Sidechain	798/1138 (70%)	541/730 (74%)	257/359 (72%)	0/49 (0%)
Aromatic	32/180 (18%)	31/91 (34%)	1/86 (1%)	0/3 (0%)
Overall	1428/2128 (67%)	895/1153 (78%)	400/771 (52%)	133/204 (65%)

7.1.4 Statistically unusual chemical shifts [i](#)

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

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	2321	PHE	CE2	51.05	124.80 – 136.72	-66.9
1	A	2313	GLU	N	17.84	103.74 – 137.78	-30.2
1	A	2247	GLY	N	12.01	91.59 – 127.52	-27.1
1	A	2279	SER	N	26.47	99.14 – 133.45	-26.2
1	C	761	GLY	N	17.20	91.59 – 127.52	-25.7
1	A	2267	GLY	N	17.46	91.59 – 127.52	-25.6
1	A	2270	GLY	N	17.79	91.59 – 127.52	-25.5
1	A	2319	SER	N	29.28	99.14 – 133.45	-25.4
1	A	2244	GLY	N	18.65	91.59 – 127.52	-25.3
1	A	2303	GLY	N	19.32	91.59 – 127.52	-25.1
1	A	2301	GLU	N	37.06	103.74 – 137.78	-24.6
1	A	2265	GLU	N	37.59	103.74 – 137.78	-24.4
1	A	2237	GLY	N	22.00	91.59 – 127.52	-24.4
1	A	2254	GLY	N	22.89	91.59 – 127.52	-24.1

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List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	2291	GLY	N	23.41	91.59 – 127.52	-24.0
1	A	2236	GLY	N	23.65	91.59 – 127.52	-23.9
1	A	2260	SER	N	35.00	99.14 – 133.45	-23.7
1	A	2250	ARG	N	35.91	102.91 – 138.82	-23.7
1	A	2269	GLY	N	24.73	91.59 – 127.52	-23.6
1	A	2258	GLU	N	42.47	103.74 – 137.78	-23.0
1	A	2318	ASP	N	35.40	102.08 – 139.36	-22.9
1	A	2327	SER	N	37.84	99.14 – 133.45	-22.9
1	A	2300	GLN	N	41.20	102.61 – 137.42	-22.6
1	A	2249	GLU	N	44.26	103.74 – 137.78	-22.5
1	A	2239	HIS	N	29.47	99.59 – 139.87	-22.4
1	A	2329	SER	N	39.93	99.14 – 133.45	-22.3
1	A	2292	SER	N	40.26	99.14 – 133.45	-22.2
1	A	2314	GLU	N	45.32	103.74 – 137.78	-22.2
1	C	752	SER	N	40.29	99.14 – 133.45	-22.2
1	A	2248	LEU	N	37.83	102.77 – 140.89	-22.0
1	A	2245	GLY	N	30.39	91.59 – 127.52	-22.0
1	A	2266	ALA	N	47.76	106.13 – 140.55	-22.0
1	A	2251	ALA	N	47.79	106.13 – 140.55	-21.9
1	A	2277	GLY	N	30.98	91.59 – 127.52	-21.9
1	A	2306	GLU	N	46.48	103.74 – 137.78	-21.8
1	C	743	ASN	N	35.10	99.66 – 138.23	-21.7
1	A	2290	ASP	N	39.77	102.08 – 139.36	-21.7
1	A	2240	LYS	N	41.60	102.74 – 139.42	-21.7
1	C	736	ARG	N	43.35	102.91 – 138.82	-21.6
1	A	2252	GLU	N	47.30	103.74 – 137.78	-21.6
1	A	2294	GLY	N	32.30	91.59 – 127.52	-21.5
1	A	2268	ALA	N	50.07	106.13 – 140.55	-21.3
1	C	732	GLU	N	48.46	103.74 – 137.78	-21.2
1	A	2238	ALA	N	50.29	106.13 – 140.55	-21.2
1	C	738	LYS	N	43.35	102.74 – 139.42	-21.2
1	C	726	GLU	N	48.65	103.74 – 137.78	-21.2
1	C	731	GLU	N	49.24	103.74 – 137.78	-21.0
1	C	733	GLU	N	49.96	103.74 – 137.78	-20.8
1	C	729	LYS	N	45.31	102.74 – 139.42	-20.7
1	A	2282	GLU	N	50.59	103.74 – 137.78	-20.6
1	A	2289	LYS	N	45.71	102.74 – 139.42	-20.6
1	A	2259	PHE	N	36.48	99.93 – 140.82	-20.5
1	C	734	ARG	N	47.85	102.91 – 138.82	-20.3
1	C	749	GLU	N	51.60	103.74 – 137.78	-20.3
1	A	2280	LYS	N	46.78	102.74 – 139.42	-20.3
1	C	735	ALA	N	53.95	106.13 – 140.55	-20.2

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List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	2243	ALA	N	54.00	106.13 – 140.55	-20.1
1	A	2286	GLU	N	52.23	103.74 – 137.78	-20.1
1	A	2304	ASP	N	46.08	102.08 – 139.36	-20.0
1	C	746	LEU	N	45.76	102.77 – 140.89	-20.0
1	A	2264	ARG	N	49.34	102.91 – 138.82	-19.9
1	C	737	ALA	N	55.49	106.13 – 140.55	-19.7
1	C	724	ARG	N	50.63	102.91 – 138.82	-19.6
1	A	2272	ALA	N	56.20	106.13 – 140.55	-19.5
1	A	2297	TYR	N	41.14	100.12 – 140.79	-19.5
1	A	2330	GLY	N	39.48	91.59 – 127.52	-19.5
1	C	728	ALA	N	57.03	106.13 – 140.55	-19.3
1	A	2316	ILE	N	41.20	100.55 – 142.30	-19.2
1	A	2242	ARG	N	51.90	102.91 – 138.82	-19.2
1	A	2308	SER	N	50.88	99.14 – 133.45	-19.1
1	C	723	ASP	N	49.65	102.08 – 139.36	-19.1
1	C	751	THR	N	26.10	91.89 – 138.78	-19.0
1	C	744	ASN	N	45.76	99.66 – 138.23	-19.0
1	A	2310	LYS	N	51.59	102.74 – 139.42	-18.9
1	C	725	LYS	N	51.71	102.74 – 139.42	-18.9
1	A	2281	ALA	N	58.65	106.13 – 140.55	-18.8
1	C	740	ASP	N	50.85	102.08 – 139.36	-18.7
1	C	742	ALA	N	58.82	106.13 – 140.55	-18.7
1	A	2284	SER	N	52.20	99.14 – 133.45	-18.7
1	C	739	TRP	N	47.20	101.51 – 141.60	-18.6
1	C	747	TYR	N	45.30	100.12 – 140.79	-18.5
1	A	2288	ARG	N	54.62	102.91 – 138.82	-18.4
1	C	716	LYS	N	53.66	102.74 – 139.42	-18.4
1	A	2253	ALA	N	60.10	106.13 – 140.55	-18.4
1	A	2296	ALA	N	60.10	106.13 – 140.55	-18.4
1	C	717	LYS	N	53.77	102.74 – 139.42	-18.4
1	A	2298	VAL	N	41.09	99.23 – 142.92	-18.3
1	A	2276	GLU	N	58.49	103.74 – 137.78	-18.3
1	C	741	THR	N	29.61	91.89 – 138.78	-18.3
1	C	750	ALA	N	60.48	106.13 – 140.55	-18.3
1	A	2261	ILE	N	45.26	100.55 – 142.30	-18.2
1	C	748	LYS	N	54.75	102.74 – 139.42	-18.1
1	C	756	ASN	N	49.59	99.66 – 138.23	-18.0
1	C	727	PHE	N	47.07	99.93 – 140.82	-17.9
1	A	2293	CYS	N	41.57	98.14 – 142.06	-17.9
1	A	2271	LEU	N	53.76	102.77 – 140.89	-17.9
1	C	730	PHE	N	47.72	99.93 – 140.82	-17.8
1	A	2274	ALA	N	62.57	106.13 – 140.55	-17.7

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List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	C	718	LYS	N	56.29	102.74 – 139.42	-17.7
1	C	760	ARG	N	58.14	102.91 – 138.82	-17.5
1	A	2321	PHE	N	48.97	99.93 – 140.82	-17.5
1	C	755	THR	N	33.93	91.89 – 138.78	-17.4
1	A	2285	PHE	N	49.50	99.93 – 140.82	-17.3
1	C	753	THR	N	34.07	91.89 – 138.78	-17.3
1	A	2311	PHE	N	49.73	99.93 – 140.82	-17.3
1	A	2263	THR	N	34.39	91.89 – 138.78	-17.3
1	A	2305	TYR	N	50.29	100.12 – 140.79	-17.2
1	C	757	ILE	N	49.44	100.55 – 142.30	-17.2
1	A	2315	HIS	N	51.59	99.59 – 139.87	-16.9
1	A	2299	VAL	N	47.91	99.23 – 142.92	-16.8
1	C	754	PHE	N	51.97	99.93 – 140.82	-16.7
1	A	2275	VAL	N	48.20	99.23 – 142.92	-16.7
1	A	2287	ASP	N	58.65	102.08 – 139.36	-16.6
1	A	2257	ALA	N	67.07	106.13 – 140.55	-16.4
1	A	2273	ILE	N	53.38	100.55 – 142.30	-16.3
1	C	722	HIS	N	54.39	99.59 – 139.87	-16.2
1	A	2326	ALA	N	67.77	106.13 – 140.55	-16.1
1	A	2255	VAL	N	51.02	99.23 – 142.92	-16.0
1	C	721	ILE	N	54.59	100.55 – 142.30	-16.0
1	C	762	THR	N	41.00	91.89 – 138.78	-15.8
1	C	758	THR	N	41.13	91.89 – 138.78	-15.8
1	A	2241	VAL	N	51.95	99.23 – 142.92	-15.8
1	C	759	TYR	N	56.19	100.12 – 140.79	-15.8
1	C	719	ILE	N	55.91	100.55 – 142.30	-15.7
1	A	2295	VAL	N	54.21	99.23 – 142.92	-15.3
1	A	2283	ILE	N	57.63	100.55 – 142.30	-15.3
1	A	2309	VAL	N	54.87	99.23 – 142.92	-15.2
1	A	2322	VAL	N	55.13	99.23 – 142.92	-15.1
1	A	2312	ASN	N	60.81	99.66 – 138.23	-15.1
1	A	2262	TRP	N	61.30	101.51 – 141.60	-15.0
1	C	720	THR	N	45.51	91.89 – 138.78	-14.9
1	A	2325	VAL	N	57.87	99.23 – 142.92	-14.5
1	C	729	LYS	CD	43.08	23.50 – 34.42	12.9
1	C	738	LYS	CD	43.08	23.50 – 34.42	12.9
1	A	2307	VAL	N	66.60	99.23 – 142.92	-12.5
1	A	2323	VAL	N	68.80	99.23 – 142.92	-12.0
1	A	2273	ILE	CG2	29.60	10.93 – 24.12	9.2
1	A	2261	ILE	CG2	27.81	10.93 – 24.12	7.8
1	A	2283	ILE	CG2	27.81	10.93 – 24.12	7.8
1	C	719	ILE	CG2	26.99	10.93 – 24.12	7.2

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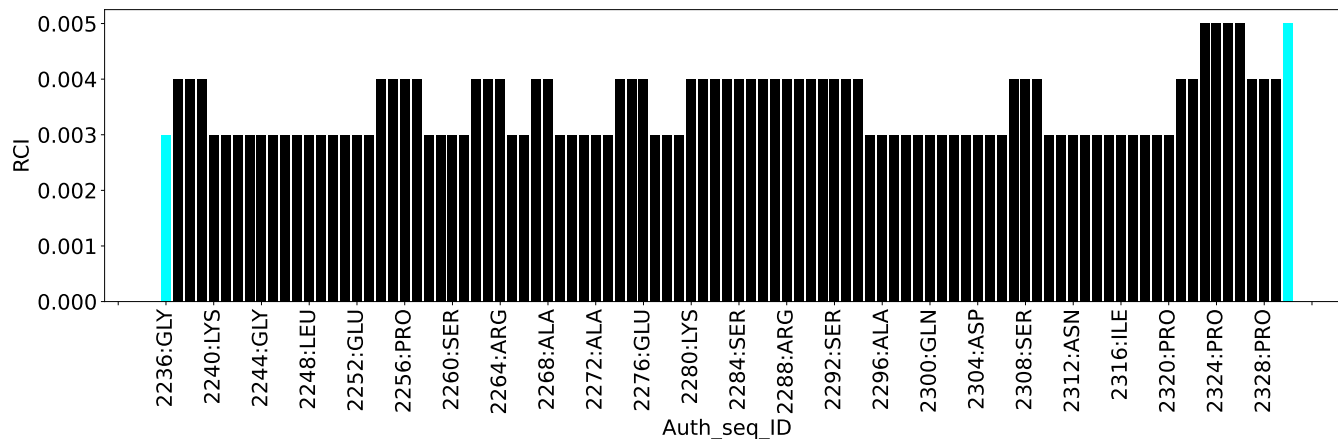
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List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	C	721	ILE	CG2	26.99	10.93 – 24.12	7.2
1	C	757	ILE	CG2	26.99	10.93 – 24.12	7.2
1	A	2273	ILE	CD1	25.14	5.18 – 21.60	7.2
1	A	2264	ARG	CD	49.65	38.57 – 47.75	7.1
1	A	2278	PRO	CD	43.01	45.11 – 55.58	-7.0
1	A	2310	LYS	CG	32.61	19.35 – 30.45	7.0
1	C	729	LYS	HD2	3.02	0.58 – 2.64	6.9
1	C	738	LYS	HD2	3.02	0.58 – 2.64	6.9

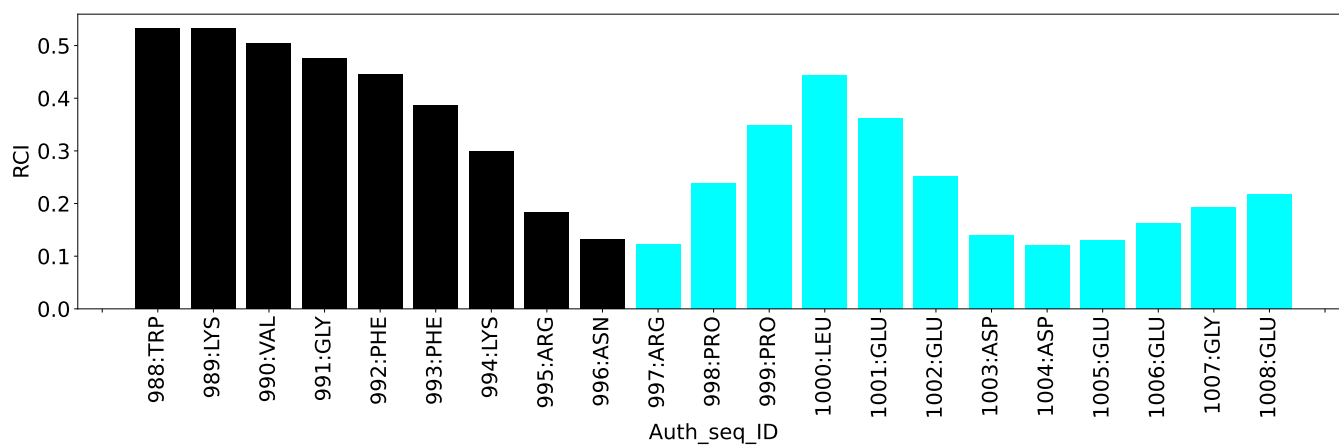
7.1.5 Random Coil Index (RCI) plots [i](#)

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.

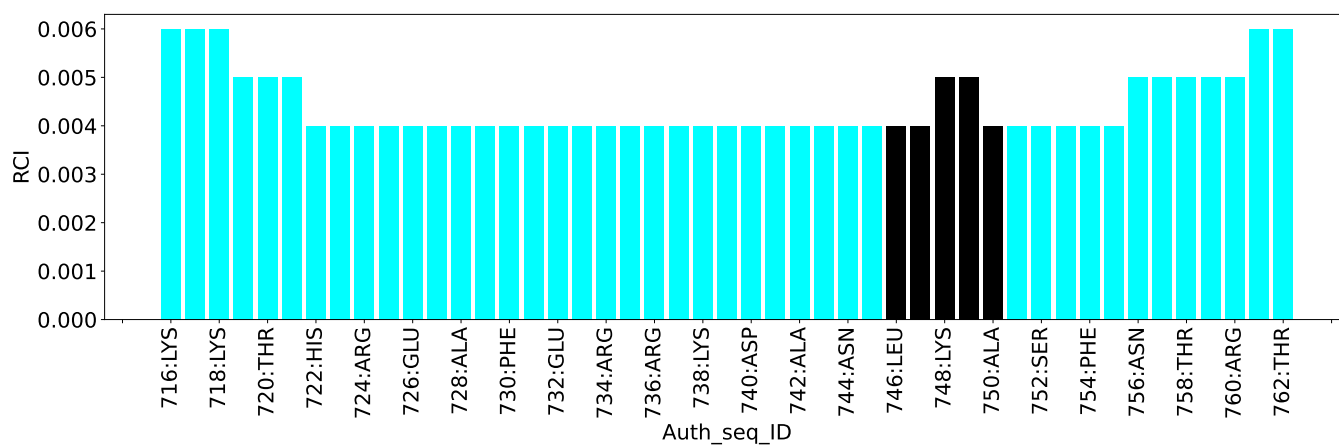
Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:



Random coil index (RCI) for chain C:



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	1341
Intra-residue ($ i-j =0$)	425
Sequential ($ i-j =1$)	483
Medium range ($ i-j >1$ and $ i-j <5$)	172
Long range ($ i-j \geq 5$)	230
Inter-chain	31
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	122
Number of unmapped restraints	0
Number of restraints per residue	9.0
Number of long range restraints per residue ¹	1.4

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)	46.8	0.2
0.2-0.5 (Medium)	25.3	0.5
>0.5 (Large)	14.7	6.64

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)	16.2	9.97
10.0-20.0 (Medium)	7.0	19.76
>20.0 (Large)	3.4	47.26

9 Distance violation analysis ⓘ

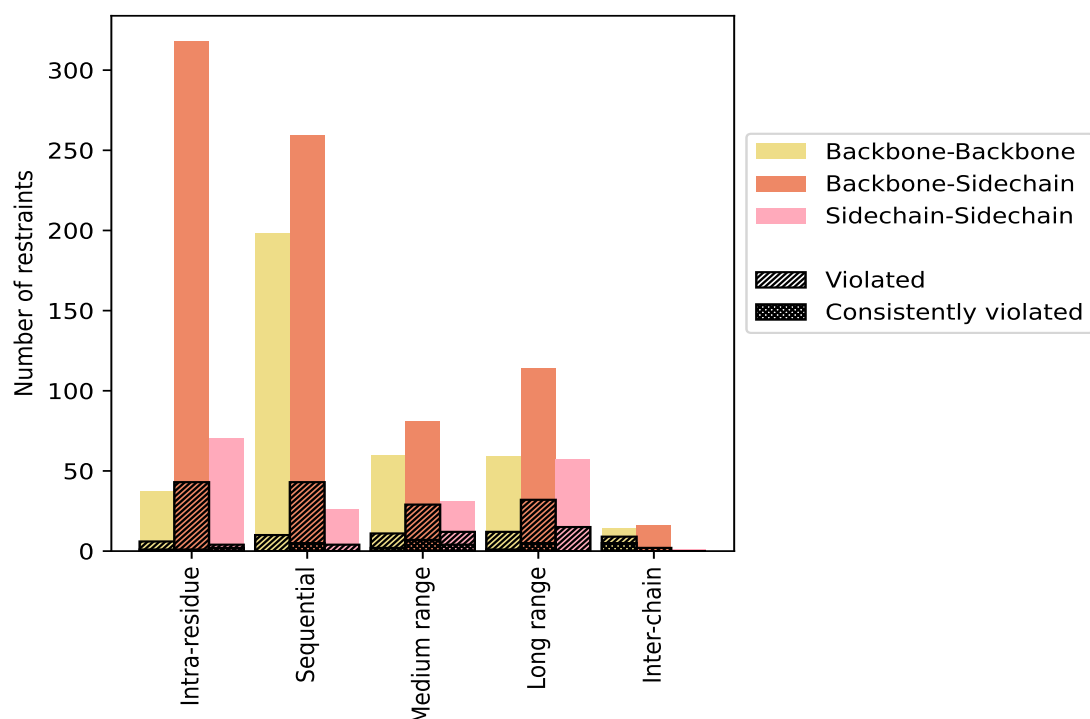
9.1 Summary of distance violations ⓘ

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 ($i-j =0$)	425	31.7	53	12.5	4.0	4	0.9	0.3
Backbone-Backbone	37	2.8	6	16.2	0.4	1	2.7	0.1
Backbone-Sidechain	318	23.7	43	13.5	3.2	1	0.3	0.1
Sidechain-Sidechain	70	5.2	4	5.7	0.3	2	2.9	0.1
Sequential ($i-j =1$)	483	36.0	57	11.8	4.3	5	1.0	0.4
Backbone-Backbone	198	14.8	10	5.1	0.7	0	0.0	0.0
Backbone-Sidechain	259	19.3	43	16.6	3.2	5	1.9	0.4
Sidechain-Sidechain	26	1.9	4	15.4	0.3	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	172	12.8	52	30.2	3.9	13	7.6	1.0
Backbone-Backbone	60	4.5	11	18.3	0.8	2	3.3	0.1
Backbone-Sidechain	81	6.0	29	35.8	2.2	7	8.6	0.5
Sidechain-Sidechain	31	2.3	12	38.7	0.9	4	12.9	0.3
Long range ($i-j \geq 5$)	230	17.2	59	25.7	4.4	6	2.6	0.4
Backbone-Backbone	59	4.4	12	20.3	0.9	1	1.7	0.1
Backbone-Sidechain	114	8.5	32	28.1	2.4	5	4.4	0.4
Sidechain-Sidechain	57	4.3	15	26.3	1.1	0	0.0	0.0
Inter-chain	31	2.3	11	35.5	0.8	5	16.1	0.4
Backbone-Backbone	14	1.0	9	64.3	0.7	5	35.7	0.4
Backbone-Sidechain	16	1.2	2	12.5	0.1	0	0.0	0.0
Sidechain-Sidechain	1	0.1	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1341	100.0	232	17.3	17.3	33	2.5	2.5
Backbone-Backbone	368	27.4	48	13.0	3.6	9	2.4	0.7
Backbone-Sidechain	788	58.8	149	18.9	11.1	18	2.3	1.3
Sidechain-Sidechain	185	13.8	35	18.9	2.6	6	3.2	0.4

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

9.1.1 Bar chart : Distribution of distance restraints and violations [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	16	18	23	27	7	91	0.4	5.18	0.7	0.16
2	18	21	27	23	8	97	0.51	5.16	0.88	0.19
3	16	17	20	24	9	86	0.38	6.22	0.72	0.18
4	12	16	20	26	7	81	0.51	5.13	0.89	0.18
5	12	20	27	28	6	93	0.47	5.31	0.82	0.21
6	18	17	24	25	6	90	0.44	5.15	0.78	0.18
7	12	20	21	21	7	81	0.5	5.63	0.89	0.21
8	18	18	20	23	9	88	0.4	5.86	0.83	0.18
9	15	23	23	25	8	94	0.4	3.96	0.59	0.19
10	16	19	20	27	8	90	0.51	5.97	1.01	0.21

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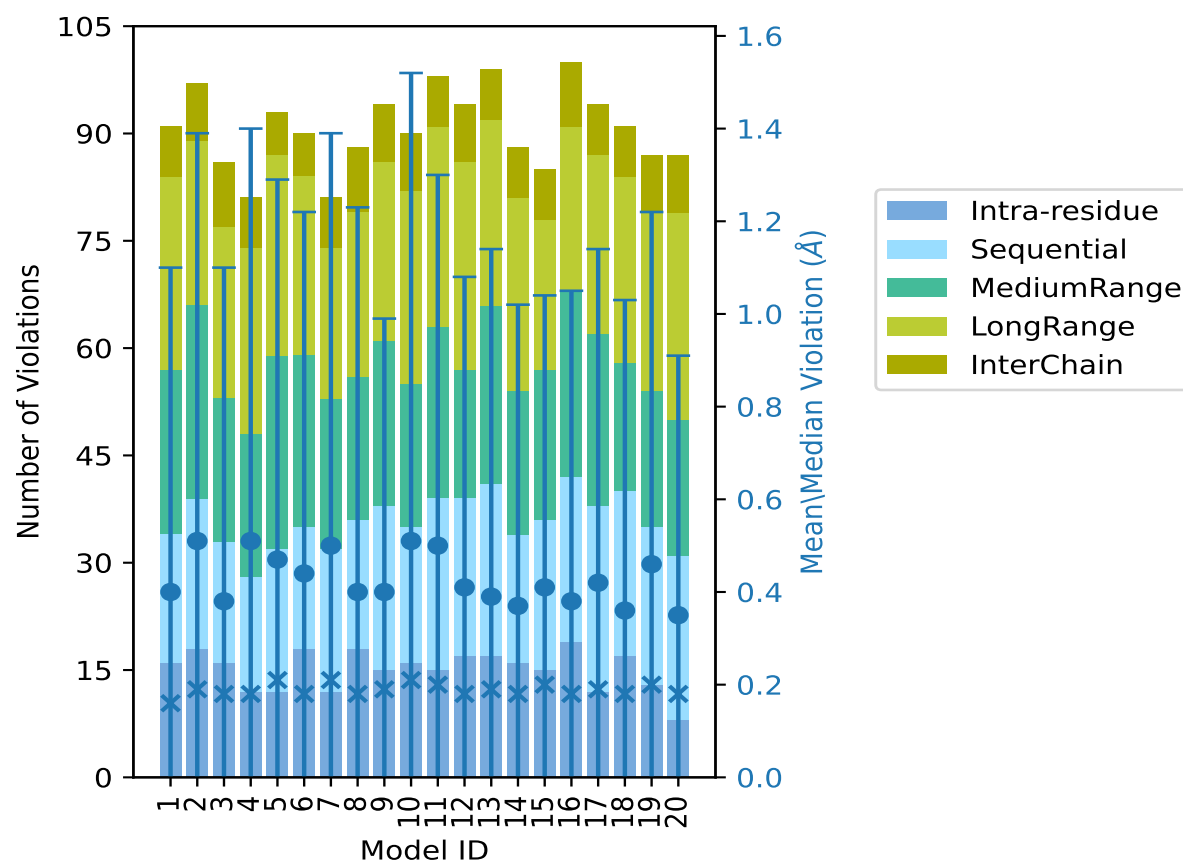
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	15	24	24	28	7	98	0.5	5.14	0.8	0.2
12	17	22	18	29	8	94	0.41	4.89	0.67	0.18
13	17	24	25	26	7	99	0.39	6.64	0.75	0.19
14	16	18	20	27	7	88	0.37	5.41	0.65	0.18
15	15	21	21	21	7	85	0.41	4.14	0.63	0.2
16	19	23	26	23	9	100	0.38	5.13	0.67	0.18
17	12	26	24	25	7	94	0.42	5.29	0.72	0.19
18	17	23	18	26	7	91	0.36	5.61	0.67	0.18
19	13	22	19	25	8	87	0.46	4.55	0.76	0.2
20	8	23	19	29	8	87	0.35	3.3	0.56	0.18

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 ⓘ



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

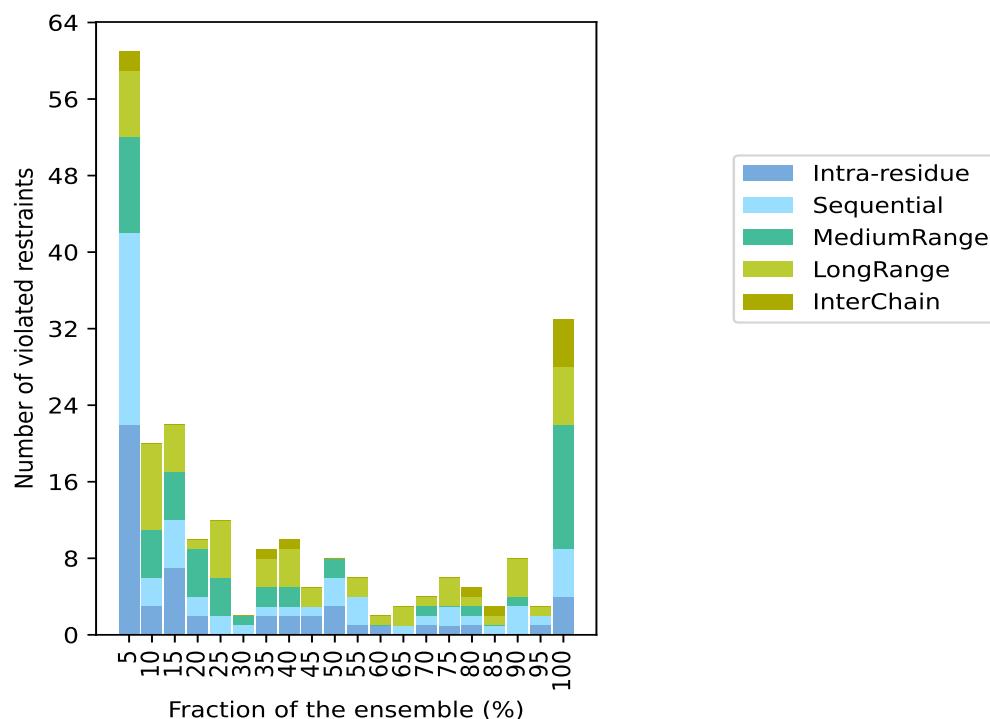
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1109(IR:372, SQ:426, MR:120, LR:171, IC:20) restraints are 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	%
22	20	10	7	2	61	1	5.0
3	3	5	9	0	20	2	10.0
7	5	5	5	0	22	3	15.0
2	2	5	1	0	10	4	20.0
0	2	4	6	0	12	5	25.0
0	1	1	0	0	2	6	30.0
2	1	2	3	1	9	7	35.0
2	1	2	4	1	10	8	40.0
2	1	0	2	0	5	9	45.0
3	3	2	0	0	8	10	50.0
1	3	0	2	0	6	11	55.0
1	0	0	1	0	2	12	60.0
0	1	0	2	0	3	13	65.0
1	1	1	1	0	4	14	70.0
1	2	0	3	0	6	15	75.0
1	1	1	1	1	5	16	80.0
0	1	0	1	1	3	17	85.0
0	3	1	4	0	8	18	90.0
1	1	0	1	0	3	19	95.0
4	5	13	6	5	33	20	100.0

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

⁵Inter-chain restraints, ⁶ Number of models with violations

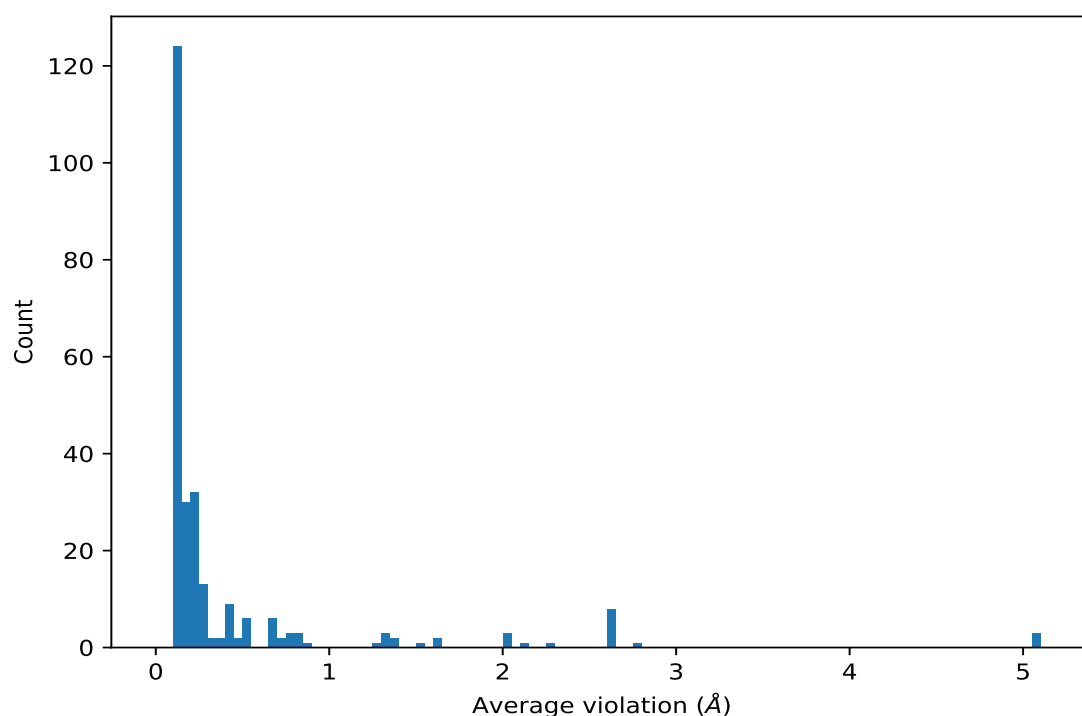
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	20	5.07	0.79	5.14
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:NE2	20	5.07	0.79	5.14
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:ND1	20	5.07	0.79	5.14
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:ND2	20	2.61	1.49	2.26
(2,4)	3:723:C:ASP:OD2	1:2312:A:ASN:OD1	20	2.61	1.49	2.26
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:OD1	20	2.61	1.49	2.26
(2,4)	3:716:C:LYS:NZ	1:2312:A:ASN:ND2	20	2.61	1.49	2.26
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:N	20	2.61	1.49	2.26
(2,4)	3:723:C:ASP:OD1	1:2312:A:ASN:ND2	20	2.61	1.49	2.26
(2,4)	3:716:C:LYS:NZ	1:2312:A:ASN:OD1	20	2.61	1.49	2.26
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	20	0.85	0.02	0.85
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	20	0.85	0.02	0.85
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	20	0.78	0.1	0.78
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	20	0.78	0.1	0.78
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	20	0.71	0.05	0.72
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	20	0.51	0.03	0.5

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	20	0.51	0.03	0.5
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	20	0.5	0.02	0.51
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	20	0.5	0.02	0.51
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	20	0.5	0.03	0.5
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	20	0.5	0.03	0.5
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	20	0.48	0.04	0.48
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	20	0.48	0.04	0.48
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	20	0.41	0.04	0.44
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	20	0.41	0.04	0.42
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	20	0.41	0.04	0.42
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	20	0.37	0.06	0.38
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	20	0.31	0.01	0.31
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	20	0.31	0.01	0.31
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	20	0.28	0.04	0.29
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	20	0.28	0.1	0.32
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	20	0.27	0.01	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	20	0.27	0.01	0.27
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	20	0.26	0.04	0.26
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	20	0.25	0.01	0.25
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	20	0.25	0.04	0.24
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	20	0.25	0.04	0.24
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	20	0.24	0.06	0.24
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	20	0.24	0.06	0.24
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	20	0.22	0.02	0.22
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	20	0.22	0.04	0.22
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	20	0.22	0.04	0.22
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	20	0.22	0.04	0.22
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	20	0.22	0.06	0.2
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	20	0.22	0.06	0.2
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	20	0.22	0.06	0.2
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	20	0.21	0.04	0.2
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	20	0.21	0.04	0.2
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	20	0.21	0.04	0.2
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	20	0.21	0.03	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	20	0.21	0.03	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	20	0.21	0.03	0.21
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	20	0.2	0.02	0.2
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	20	0.2	0.01	0.2
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	20	0.19	0.04	0.18
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	20	0.18	0.01	0.18
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	20	0.17	0.03	0.16
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	20	0.17	0.03	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	20	0.16	0.02	0.16
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	20	0.15	0.03	0.16
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	19	0.74	0.25	0.72
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	19	0.17	0.05	0.17
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	19	0.12	0.01	0.12
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	18	1.37	0.3	1.36
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	18	1.37	0.3	1.36
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	18	0.21	0.04	0.2
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	18	0.2	0.05	0.22
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	18	0.17	0.03	0.17
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	18	0.15	0.02	0.15
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	18	0.15	0.03	0.14
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	18	0.14	0.03	0.16
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	18	0.13	0.01	0.13
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	17	2.65	1.05	2.55
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	17	0.17	0.04	0.18
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	17	0.15	0.04	0.15
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	17	0.15	0.04	0.15
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	17	0.15	0.04	0.15
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	16	2.3	0.57	2.45
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	16	0.22	0.07	0.2
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	16	0.22	0.11	0.18
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	16	0.19	0.05	0.19
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	16	0.14	0.03	0.13
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	15	1.25	0.83	0.82
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	15	0.18	0.05	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	15	0.17	0.02	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	15	0.17	0.02	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	15	0.17	0.02	0.17
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	15	0.16	0.03	0.17
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	15	0.12	0.01	0.12
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	15	0.12	0.01	0.12
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	14	0.86	0.25	0.96
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	14	0.15	0.03	0.14
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	14	0.13	0.02	0.13
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	14	0.12	0.02	0.12
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	13	0.23	0.06	0.27
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	13	0.23	0.06	0.27
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	13	0.23	0.06	0.27
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	13	0.19	0.06	0.2
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	13	0.13	0.02	0.13
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	12	0.18	0.03	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	12	0.12	0.01	0.12
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	11	0.18	0.04	0.2
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	11	0.15	0.05	0.14
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	11	0.15	0.05	0.13
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	11	0.13	0.01	0.13
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	11	0.13	0.01	0.13
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	11	0.12	0.02	0.11
(1,754)	1:2319:A:SER:HB2	1:2321:A:PHE:HD2	10	2.78	0.8	3.03
(1,763)	1:2321:A:PHE:H	1:2321:A:PHE:HD2	10	0.75	0.2	0.81
(1,391)	1:2275:A:VAL:HG21	1:2277:A:GLY:H	10	0.26	0.06	0.27
(1,391)	1:2275:A:VAL:HG22	1:2277:A:GLY:H	10	0.26	0.06	0.27
(1,391)	1:2275:A:VAL:HG23	1:2277:A:GLY:H	10	0.26	0.06	0.27
(1,386)	1:2275:A:VAL:HG21	1:2276:A:GLU:H	10	0.16	0.04	0.17
(1,386)	1:2275:A:VAL:HG22	1:2276:A:GLU:H	10	0.16	0.04	0.17
(1,386)	1:2275:A:VAL:HG23	1:2276:A:GLU:H	10	0.16	0.04	0.17
(1,629)	1:2307:A:VAL:H	1:2308:A:SER:HA	10	0.15	0.04	0.15
(1,279)	1:2258:A:GLU:HB2	1:2259:A:PHE:H	10	0.14	0.02	0.15
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB2	10	0.14	0.02	0.14
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB3	10	0.14	0.02	0.14
(1,598)	1:2305:A:TYR:H	1:2305:A:TYR:HB2	10	0.14	0.01	0.13
(1,1111)	3:731:C:GLU:HB3	3:732:C:GLU:H	9	0.28	0.0	0.28
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG11	9	0.19	0.06	0.16
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG12	9	0.19	0.06	0.16
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG13	9	0.19	0.06	0.16
(1,1185)	3:741:C:THR:H	3:741:C:THR:HA	9	0.15	0.02	0.16
(1,282)	1:2258:A:GLU:HA	1:2294:A:GLY:HA3	9	0.13	0.01	0.13
(1,460)	1:2282:A:GLU:H	1:2282:A:GLU:HB3	9	0.1	0.0	0.1
(1,22)	1:2238:A:ALA:H	1:2311:A:PHE:HD2	8	2.11	0.76	2.36
(1,365)	1:2273:A:ILE:HD11	1:2285:A:PHE:HE2	8	2.05	0.93	1.74
(1,365)	1:2273:A:ILE:HD12	1:2285:A:PHE:HE2	8	2.05	0.93	1.74
(1,365)	1:2273:A:ILE:HD13	1:2285:A:PHE:HE2	8	2.05	0.93	1.74
(1,658)	1:2309:A:VAL:HB	1:2321:A:PHE:HE1	8	1.51	0.46	1.54
(1,819)	2:988:B:TRP:HZ2	2:988:B:TRP:HA	8	0.28	0.08	0.25
(1,1316)	1:2238:A:ALA:H	2:989:B:LYS:HB2	8	0.16	0.04	0.15
(1,414)	1:2277:A:GLY:HA2	1:2306:A:GLU:HA	8	0.15	0.03	0.13
(1,556)	1:2299:A:VAL:HB	1:2301:A:GLU:H	8	0.14	0.01	0.14
(1,557)	1:2299:A:VAL:HG21	1:2301:A:GLU:HB2	8	0.12	0.02	0.12
(1,557)	1:2299:A:VAL:HG22	1:2301:A:GLU:HB2	8	0.12	0.02	0.12
(1,557)	1:2299:A:VAL:HG23	1:2301:A:GLU:HB2	8	0.12	0.02	0.12
(1,696)	1:2314:A:GLU:H	1:2314:A:GLU:HB3	8	0.11	0.01	0.11
(1,23)	1:2238:A:ALA:HB1	1:2311:A:PHE:HD2	7	1.3	0.19	1.32
(1,23)	1:2238:A:ALA:HB2	1:2311:A:PHE:HD2	7	1.3	0.19	1.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,23)	1:2238:A:ALA:HB3	1:2311:A:PHE:HD2	7	1.3	0.19	1.32
(1,21)	1:2238:A:ALA:HA	1:2311:A:PHE:HD2	7	0.84	0.28	0.85
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB2	7	0.42	0.24	0.29
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB3	7	0.42	0.24	0.29
(1,712)	1:2315:A:HIS:HA	1:2315:A:HIS:HD2	7	0.24	0.09	0.28
(1,662)	1:2310:A:LYS:HE3	1:2311:A:PHE:HA	7	0.17	0.05	0.16
(1,485)	1:2286:A:GLU:H	1:2286:A:GLU:HB3	7	0.14	0.02	0.14
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG21	7	0.14	0.02	0.14
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG22	7	0.14	0.02	0.14
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG23	7	0.14	0.02	0.14
(1,1318)	1:2269:A:GLY:H	3:721:C:ILE:HB	7	0.14	0.03	0.12
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB1	7	0.12	0.02	0.12
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB2	7	0.12	0.02	0.12
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB3	7	0.12	0.02	0.12
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB1	7	0.12	0.02	0.12
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB2	7	0.12	0.02	0.12
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB3	7	0.12	0.02	0.12
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB1	7	0.12	0.02	0.12
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB2	7	0.12	0.02	0.12
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB3	7	0.12	0.02	0.12
(1,857)	2:992:B:PHE:HD1	2:988:B:TRP:HE1	6	1.64	0.23	1.58
(1,857)	2:992:B:PHE:HD2	2:988:B:TRP:HE1	6	1.64	0.23	1.58
(1,1103)	3:730:C:PHE:HA	3:731:C:GLU:H	6	0.1	0.0	0.1
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD11	5	0.67	0.49	0.55
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD12	5	0.67	0.49	0.55
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD13	5	0.67	0.49	0.55
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD21	5	0.67	0.49	0.55
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD22	5	0.67	0.49	0.55
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD23	5	0.67	0.49	0.55
(1,766)	1:2321:A:PHE:HD2	1:2322:A:VAL:H	5	0.22	0.07	0.21
(1,603)	1:2305:A:TYR:HB2	1:2306:A:GLU:H	5	0.17	0.04	0.16
(1,609)	1:2305:A:TYR:HD1	1:2325:A:VAL:HB	5	0.16	0.04	0.17
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG11	5	0.14	0.02	0.16
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG12	5	0.14	0.02	0.16
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG13	5	0.14	0.02	0.16
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB1	5	0.14	0.02	0.14
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB2	5	0.14	0.02	0.14
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB3	5	0.14	0.02	0.14
(1,719)	1:2315:A:HIS:HE1	1:2319:A:SER:HA	5	0.14	0.02	0.14
(1,108)	1:2246:A:PRO:HB3	1:2259:A:PHE:HA	5	0.13	0.02	0.12
(1,137)	1:2248:A:LEU:HD21	1:2307:A:VAL:HB	5	0.13	0.03	0.12
(1,137)	1:2248:A:LEU:HD22	1:2307:A:VAL:HB	5	0.13	0.03	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,137)	1:2248:A:LEU:HD23	1:2307:A:VAL:HB	5	0.13	0.03	0.12
(1,241)	1:2254:A:GLY:H	1:2300:A:GLN:HA	5	0.13	0.01	0.13
(1,866)	2:992:B:PHE:HD1	2:995:B:ARG:HA	5	0.12	0.01	0.12
(1,866)	2:992:B:PHE:HD2	2:995:B:ARG:HA	5	0.12	0.01	0.12
(1,269)	1:2257:A:ALA:H	1:2298:A:VAL:HB	5	0.12	0.02	0.11
(1,1295)	3:759:C:TYR:H	3:757:C:ILE:HG21	4	0.4	0.25	0.27
(1,1295)	3:759:C:TYR:H	3:757:C:ILE:HG12	4	0.4	0.25	0.27
(1,1295)	3:759:C:TYR:H	3:757:C:ILE:HG23	4	0.4	0.25	0.27
(1,1295)	3:759:C:TYR:H	3:757:C:ILE:HG13	4	0.4	0.25	0.27
(1,996)	2:1008:B:GLU:H	2:1006:B:GLU:HA	4	0.39	0.25	0.41
(1,587)	1:2304:A:ASP:H	1:2304:A:ASP:HB3	4	0.2	0.01	0.2
(1,1232)	3:748:C:LYS:H	3:748:C:LYS:HD2	4	0.16	0.06	0.13
(1,1232)	3:748:C:LYS:H	3:748:C:LYS:HD3	4	0.16	0.06	0.13
(1,631)	1:2307:A:VAL:HB	1:2309:A:VAL:HA	4	0.15	0.03	0.14
(1,6)	1:2237:A:GLY:HA3	1:2240:A:LYS:HB3	4	0.14	0.02	0.12
(1,428)	1:2279:A:SER:HB2	1:2280:A:LYS:H	4	0.13	0.02	0.14
(1,642)	1:2308:A:SER:HB2	1:2310:A:LYS:HE3	4	0.12	0.01	0.12
(1,9)	1:2238:A:ALA:H	1:2239:A:HIS:HA	4	0.12	0.02	0.12
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG11	4	0.11	0.0	0.11
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG12	4	0.11	0.0	0.11
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG13	4	0.11	0.0	0.11
(1,1307)	3:762:C:THR:H	3:762:C:THR:HB	3	0.23	0.01	0.23
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD11	3	0.2	0.0	0.2
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD12	3	0.2	0.0	0.2
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD13	3	0.2	0.0	0.2
(1,437)	1:2279:A:SER:HB3	1:2301:A:GLU:HG3	3	0.17	0.04	0.19
(1,573)	1:2301:A:GLU:H	1:2301:A:GLU:HG3	3	0.15	0.0	0.15
(1,81)	1:2243:A:ALA:HB1	1:2248:A:LEU:HB2	3	0.14	0.01	0.14
(1,81)	1:2243:A:ALA:HB2	1:2248:A:LEU:HB2	3	0.14	0.01	0.14
(1,81)	1:2243:A:ALA:HB3	1:2248:A:LEU:HB2	3	0.14	0.01	0.14
(1,579)	1:2303:A:GLY:HA2	1:2324:A:PRO:HB3	3	0.14	0.03	0.16
(1,422)	1:2278:A:PRO:HB2	1:2305:A:TYR:HA	3	0.14	0.03	0.12
(1,114)	1:2247:A:GLY:H	1:2249:A:GLU:HG2	3	0.12	0.03	0.1
(1,597)	1:2305:A:TYR:H	1:2305:A:TYR:HB3	3	0.12	0.02	0.11
(1,25)	1:2239:A:HIS:H	1:2239:A:HIS:HB3	3	0.12	0.03	0.1
(1,1114)	3:731:C:GLU:HG3	3:733:C:GLU:H	3	0.12	0.01	0.11
(1,299)	1:2261:A:ILE:HA	1:2263:A:THR:H	3	0.11	0.01	0.11
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG21	3	0.11	0.0	0.11
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG22	3	0.11	0.0	0.11
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG23	3	0.11	0.0	0.11
(1,813)	1:2329:A:SER:HB3	1:2330:A:GLY:HA3	3	0.11	0.0	0.11
(1,426)	1:2279:A:SER:HB3	1:2280:A:LYS:H	3	0.11	0.01	0.11

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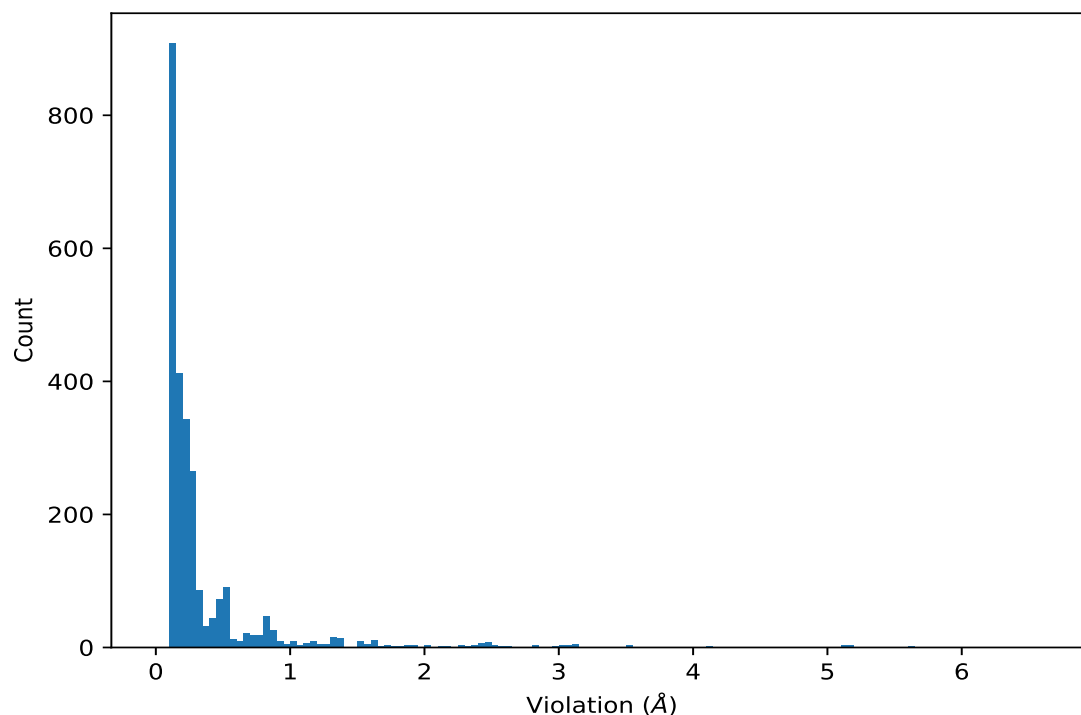
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,566)	1:2300:A:GLN:HB2	1:2301:A:GLU:H	3	0.11	0.01	0.11
(1,152)	1:2250:A:ARG:HG3	1:2251:A:ALA:H	3	0.11	0.0	0.11
(1,399)	1:2275:A:VAL:HA	1:2308:A:SER:H	3	0.11	0.0	0.11
(1,816)	2:988:B:TRP:HZ2	2:988:B:TRP:HB2	3	0.11	0.0	0.11
(1,931)	2:996:B:ASN:HD22	2:996:B:ASN:HA	3	0.11	0.01	0.1
(1,1124)	3:732:C:GLU:HB3	3:733:C:GLU:H	3	0.1	0.0	0.1
(1,1089)	3:729:C:LYS:HA	3:731:C:GLU:H	3	0.1	0.0	0.1
(1,375)	1:2274:A:ALA:HA	1:2308:A:SER:HB3	2	0.2	0.0	0.2
(1,1090)	3:729:C:LYS:HD3	3:731:C:GLU:H	2	0.15	0.0	0.15
(1,606)	1:2305:A:TYR:H	1:2323:A:VAL:H	2	0.14	0.0	0.14
(1,1129)	3:733:C:GLU:H	3:729:C:LYS:HD2	2	0.14	0.01	0.14
(1,1129)	3:733:C:GLU:H	3:729:C:LYS:HD3	2	0.14	0.01	0.14
(1,429)	1:2279:A:SER:H	1:2280:A:LYS:HA	2	0.14	0.01	0.14
(1,90)	1:2244:A:GLY:HA2	1:2260:A:SER:H	2	0.13	0.03	0.13
(1,170)	1:2251:A:ALA:H	1:2324:A:PRO:HA	2	0.13	0.02	0.13
(1,438)	1:2279:A:SER:HB3	1:2301:A:GLU:HG2	2	0.13	0.01	0.13
(1,720)	1:2315:A:HIS:HB3	1:2319:A:SER:H	2	0.13	0.03	0.13
(1,1137)	3:733:C:GLU:HA	3:735:C:ALA:H	2	0.12	0.02	0.12
(1,75)	1:2242:A:ARG:HG3	1:2263:A:THR:HB	2	0.12	0.02	0.12
(1,582)	1:2303:A:GLY:H	1:2325:A:VAL:HB	2	0.12	0.0	0.12
(1,851)	2:991:B:GLY:HA3	2:992:B:PHE:HE1	2	0.12	0.0	0.12
(1,851)	2:991:B:GLY:HA3	2:992:B:PHE:HE2	2	0.12	0.0	0.12
(1,1044)	3:725:C:LYS:H	3:725:C:LYS:HD2	2	0.12	0.0	0.12
(1,1044)	3:725:C:LYS:H	3:725:C:LYS:HD3	2	0.12	0.0	0.12
(1,168)	1:2251:A:ALA:H	1:2323:A:VAL:HG21	2	0.11	0.0	0.11
(1,168)	1:2251:A:ALA:H	1:2323:A:VAL:HG22	2	0.11	0.0	0.11
(1,168)	1:2251:A:ALA:H	1:2323:A:VAL:HG23	2	0.11	0.0	0.11
(1,528)	1:2296:A:ALA:HA	1:2307:A:VAL:HG11	2	0.11	0.01	0.11
(1,528)	1:2296:A:ALA:HA	1:2307:A:VAL:HG12	2	0.11	0.01	0.11
(1,528)	1:2296:A:ALA:HA	1:2307:A:VAL:HG13	2	0.11	0.01	0.11
(1,997)	2:1008:B:GLU:H	2:1008:B:GLU:HG2	2	0.11	0.0	0.11
(1,997)	2:1008:B:GLU:H	2:1008:B:GLU:HG3	2	0.11	0.0	0.11
(1,553)	1:2299:A:VAL:HA	1:2301:A:GLU:H	2	0.11	0.0	0.11
(1,1121)	3:732:C:GLU:H	3:732:C:GLU:HB3	2	0.11	0.0	0.11
(1,1058)	3:726:C:GLU:HA	3:727:C:PHE:H	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)
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	13	6.64
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:ND1	3	6.22
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:NE2	10	5.97
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:N	8	5.86
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:N	10	5.82
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	7	5.63
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	18	5.61
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	14	5.41
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:NE2	5	5.31
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	17	5.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	1	5.18
(2,4)	3:723:C:ASP:OD2	1:2312:A:ASN:OD1	2	5.16
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	6	5.15
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	11	5.14
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:NE2	4	5.13
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	16	5.13
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	12	4.89
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:NE2	2	4.76
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	4	4.64
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:N	19	4.55
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:NE2	8	4.27
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:NE2	15	4.14
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	5	4.11
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	10	4.07
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:NE2	9	3.96
(2,4)	3:716:C:LYS:NZ	1:2312:A:ASN:ND2	7	3.87
(1,365)	1:2273:A:ILE:HD11	1:2285:A:PHE:HE2	10	3.55
(1,365)	1:2273:A:ILE:HD12	1:2285:A:PHE:HE2	10	3.55
(1,365)	1:2273:A:ILE:HD13	1:2285:A:PHE:HE2	10	3.55
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	8	3.45
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	20	3.3
(1,754)	1:2319:A:SER:HB2	1:2321:A:PHE:HD2	4	3.16
(1,365)	1:2273:A:ILE:HD11	1:2285:A:PHE:HE2	11	3.14
(1,365)	1:2273:A:ILE:HD12	1:2285:A:PHE:HE2	11	3.14
(1,365)	1:2273:A:ILE:HD13	1:2285:A:PHE:HE2	11	3.14
(1,754)	1:2319:A:SER:HB2	1:2321:A:PHE:HD2	5	3.11
(2,4)	3:716:C:LYS:NZ	1:2312:A:ASN:OD1	19	3.1
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	6	3.09
(1,754)	1:2319:A:SER:HB2	1:2321:A:PHE:HD2	1	3.09
(2,1)	3:716:C:LYS:NZ	1:2239:A:HIS:NE2	20	3.06
(1,754)	1:2319:A:SER:HB2	1:2321:A:PHE:HD2	7	3.04
(1,754)	1:2319:A:SER:HB2	1:2321:A:PHE:HD2	15	3.04
(1,754)	1:2319:A:SER:HB2	1:2321:A:PHE:HD2	6	3.02
(1,754)	1:2319:A:SER:HB2	1:2321:A:PHE:HD2	16	3.02
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	19	2.99
(1,754)	1:2319:A:SER:HB2	1:2321:A:PHE:HD2	17	2.99
(1,754)	1:2319:A:SER:HB2	1:2321:A:PHE:HD2	2	2.92
(2,4)	3:716:C:LYS:NZ	1:2312:A:ASN:ND2	6	2.86
(1,365)	1:2273:A:ILE:HD11	1:2285:A:PHE:HE2	4	2.82
(1,365)	1:2273:A:ILE:HD12	1:2285:A:PHE:HE2	4	2.82
(1,365)	1:2273:A:ILE:HD13	1:2285:A:PHE:HE2	4	2.82
(2,4)	3:716:C:LYS:NZ	1:2312:A:ASN:ND2	11	2.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:ND2	12	2.71
(1,22)	1:2238:A:ALA:H	1:2311:A:PHE:HD2	11	2.66
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:OD1	20	2.63
(1,22)	1:2238:A:ALA:H	1:2311:A:PHE:HD2	12	2.63
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	7	2.58
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	4	2.56
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	2	2.55
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	16	2.54
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	2	2.54
(1,22)	1:2238:A:ALA:H	1:2311:A:PHE:HD2	5	2.51
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	11	2.49
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	2	2.48
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	9	2.48
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	17	2.48
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	19	2.48
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	1	2.47
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	11	2.45
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	13	2.45
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	3	2.44
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	18	2.44
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	17	2.42
(1,22)	1:2238:A:ALA:H	1:2311:A:PHE:HD2	9	2.42
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	6	2.41
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	7	2.41
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	19	2.38
(1,658)	1:2309:A:VAL:HB	1:2321:A:PHE:HE1	19	2.35
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	5	2.35
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	15	2.34
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	16	2.34
(1,22)	1:2238:A:ALA:H	1:2311:A:PHE:HD2	2	2.29
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	1	2.28
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:ND2	17	2.27
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:ND2	18	2.25
(1,22)	1:2238:A:ALA:H	1:2311:A:PHE:HD2	10	2.17
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	12	2.15
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	7	2.14
(2,4)	3:723:C:ASP:OD1	1:2312:A:ASN:ND2	14	2.1
(1,22)	1:2238:A:ALA:H	1:2311:A:PHE:HD2	19	2.04
(1,857)	2:992:B:PHE:HD1	2:988:B:TRP:HE1	2	2.01
(1,857)	2:992:B:PHE:HD2	2:988:B:TRP:HE1	2	2.01
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:OD1	9	2.0
(1,365)	1:2273:A:ILE:HD11	1:2285:A:PHE:HE2	13	1.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:2273:A:ILE:HD12	1:2285:A:PHE:HE2	13	1.95
(1,365)	1:2273:A:ILE:HD13	1:2285:A:PHE:HE2	13	1.95
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	15	1.93
(1,658)	1:2309:A:VAL:HB	1:2321:A:PHE:HE1	11	1.87
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	11	1.86
(1,857)	2:992:B:PHE:HD1	2:988:B:TRP:HE1	7	1.85
(1,857)	2:992:B:PHE:HD2	2:988:B:TRP:HE1	7	1.85
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	2	1.81
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	2	1.81
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	6	1.76
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	6	1.76
(1,658)	1:2309:A:VAL:HB	1:2321:A:PHE:HE1	14	1.73
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:ND2	16	1.72
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	12	1.71
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	12	1.71
(1,658)	1:2309:A:VAL:HB	1:2321:A:PHE:HE1	20	1.7
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	9	1.69
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	3	1.65
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	3	1.65
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	1	1.64
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	1	1.64
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	13	1.62
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	13	1.62
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:ND2	5	1.61
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	2	1.6
(1,23)	1:2238:A:ALA:HB1	1:2311:A:PHE:HD2	11	1.6
(1,23)	1:2238:A:ALA:HB2	1:2311:A:PHE:HD2	11	1.6
(1,23)	1:2238:A:ALA:HB3	1:2311:A:PHE:HD2	11	1.6
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	13	1.58
(1,857)	2:992:B:PHE:HD1	2:988:B:TRP:HE1	6	1.58
(1,857)	2:992:B:PHE:HD2	2:988:B:TRP:HE1	6	1.58
(1,857)	2:992:B:PHE:HD1	2:988:B:TRP:HE1	11	1.58
(1,857)	2:992:B:PHE:HD2	2:988:B:TRP:HE1	11	1.58
(1,365)	1:2273:A:ILE:HD11	1:2285:A:PHE:HE2	14	1.53
(1,365)	1:2273:A:ILE:HD12	1:2285:A:PHE:HE2	14	1.53
(1,365)	1:2273:A:ILE:HD13	1:2285:A:PHE:HE2	14	1.53
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	8	1.51
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	8	1.51
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	10	1.51
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	10	1.51
(1,857)	2:992:B:PHE:HD1	2:988:B:TRP:HE1	5	1.51
(1,857)	2:992:B:PHE:HD2	2:988:B:TRP:HE1	5	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:OD1	13	1.46
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:OD1	15	1.4
(1,23)	1:2238:A:ALA:HB1	1:2311:A:PHE:HD2	2	1.4
(1,23)	1:2238:A:ALA:HB2	1:2311:A:PHE:HD2	2	1.4
(1,23)	1:2238:A:ALA:HB3	1:2311:A:PHE:HD2	2	1.4
(1,658)	1:2309:A:VAL:HB	1:2321:A:PHE:HE1	8	1.39
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	14	1.38
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	14	1.38
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:OD1	4	1.37
(1,21)	1:2238:A:ALA:HA	1:2311:A:PHE:HD2	11	1.37
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	17	1.35
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	17	1.35
(1,23)	1:2238:A:ALA:HB1	1:2311:A:PHE:HD2	9	1.35
(1,23)	1:2238:A:ALA:HB2	1:2311:A:PHE:HD2	9	1.35
(1,23)	1:2238:A:ALA:HB3	1:2311:A:PHE:HD2	9	1.35
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	15	1.33
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	15	1.33
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	13	1.33
(1,23)	1:2238:A:ALA:HB1	1:2311:A:PHE:HD2	10	1.32
(1,23)	1:2238:A:ALA:HB2	1:2311:A:PHE:HD2	10	1.32
(1,23)	1:2238:A:ALA:HB3	1:2311:A:PHE:HD2	10	1.32
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD11	9	1.31
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD12	9	1.31
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD13	9	1.31
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD21	9	1.31
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD22	9	1.31
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD23	9	1.31
(1,23)	1:2238:A:ALA:HB1	1:2311:A:PHE:HD2	12	1.31
(1,23)	1:2238:A:ALA:HB2	1:2311:A:PHE:HD2	12	1.31
(1,23)	1:2238:A:ALA:HB3	1:2311:A:PHE:HD2	12	1.31
(1,857)	2:992:B:PHE:HD1	2:988:B:TRP:HE1	16	1.29
(1,857)	2:992:B:PHE:HD2	2:988:B:TRP:HE1	16	1.29
(1,365)	1:2273:A:ILE:HD11	1:2285:A:PHE:HE2	18	1.29
(1,365)	1:2273:A:ILE:HD12	1:2285:A:PHE:HE2	18	1.29
(1,365)	1:2273:A:ILE:HD13	1:2285:A:PHE:HE2	18	1.29
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	11	1.22
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	11	1.22
(1,23)	1:2238:A:ALA:HB1	1:2311:A:PHE:HD2	5	1.21
(1,23)	1:2238:A:ALA:HB2	1:2311:A:PHE:HD2	5	1.21
(1,23)	1:2238:A:ALA:HB3	1:2311:A:PHE:HD2	5	1.21
(1,658)	1:2309:A:VAL:HB	1:2321:A:PHE:HE1	12	1.17
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD11	4	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD12	4	1.16
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD13	4	1.16
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD21	4	1.16
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD22	4	1.16
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD23	4	1.16
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	18	1.16
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	18	1.16
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	20	1.15
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	20	1.15
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	7	1.13
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	7	1.13
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	5	1.1
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	5	1.1
(1,365)	1:2273:A:ILE:HD11	1:2285:A:PHE:HE2	12	1.09
(1,365)	1:2273:A:ILE:HD12	1:2285:A:PHE:HE2	12	1.09
(1,365)	1:2273:A:ILE:HD13	1:2285:A:PHE:HE2	12	1.09
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	4	1.03
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	11	1.03
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	1	1.02
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	3	1.01
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	9	1.01
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	17	1.01
(1,365)	1:2273:A:ILE:HD11	1:2285:A:PHE:HE2	17	1.01
(1,365)	1:2273:A:ILE:HD12	1:2285:A:PHE:HE2	17	1.01
(1,365)	1:2273:A:ILE:HD13	1:2285:A:PHE:HE2	17	1.01
(1,658)	1:2309:A:VAL:HB	1:2321:A:PHE:HE1	18	0.98
(1,21)	1:2238:A:ALA:HA	1:2311:A:PHE:HD2	12	0.98
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	12	0.97
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	19	0.97
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	19	0.97
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	5	0.95
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	10	0.95
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	4	0.95
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	4	0.95
(1,23)	1:2238:A:ALA:HB1	1:2311:A:PHE:HD2	19	0.93
(1,23)	1:2238:A:ALA:HB2	1:2311:A:PHE:HD2	19	0.93
(1,23)	1:2238:A:ALA:HB3	1:2311:A:PHE:HD2	19	0.93
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	16	0.92
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	3	0.91
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	3	0.91
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	14	0.89
(1,658)	1:2309:A:VAL:HB	1:2321:A:PHE:HE1	9	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	3	0.88
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	3	0.88
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	15	0.88
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	15	0.88
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	19	0.88
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	19	0.88
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	15	0.87
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	1	0.87
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	1	0.87
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	4	0.87
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	4	0.87
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	13	0.87
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	13	0.87
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	6	0.87
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	6	0.87
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	4	0.87
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	9	0.86
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	9	0.86
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	10	0.86
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	10	0.86
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	16	0.86
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	16	0.86
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	19	0.86
(1,21)	1:2238:A:ALA:HA	1:2311:A:PHE:HD2	5	0.86
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	12	0.85
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	12	0.85
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	14	0.85
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	14	0.85
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	17	0.85
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	17	0.85
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	18	0.85
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	18	0.85
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	13	0.85
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	13	0.85
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	20	0.85
(1,763)	1:2321:A:PHE:H	1:2321:A:PHE:HD2	6	0.85
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	4	0.85
(1,21)	1:2238:A:ALA:HA	1:2311:A:PHE:HD2	10	0.85
(1,1295)	3:759:C:TYR:H	3:757:C:ILE:HG12	10	0.84
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	5	0.84
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	5	0.84
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	6	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	6	0.84
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	8	0.84
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	8	0.84
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	11	0.84
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	11	0.84
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	1	0.84
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	1	0.84
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	9	0.84
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	9	0.84
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	12	0.83
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	12	0.83
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	15	0.83
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	15	0.83
(1,763)	1:2321:A:PHE:H	1:2321:A:PHE:HD2	1	0.83
(1,763)	1:2321:A:PHE:H	1:2321:A:PHE:HD2	4	0.83
(1,763)	1:2321:A:PHE:H	1:2321:A:PHE:HD2	16	0.83
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	7	0.82
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	7	0.82
(1,763)	1:2321:A:PHE:H	1:2321:A:PHE:HD2	5	0.82
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	15	0.82
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	20	0.81
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	20	0.81
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB2	3	0.8
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB3	3	0.8
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	4	0.8
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	4	0.8
(1,763)	1:2321:A:PHE:H	1:2321:A:PHE:HD2	2	0.8
(1,763)	1:2321:A:PHE:H	1:2321:A:PHE:HD2	15	0.8
(1,763)	1:2321:A:PHE:H	1:2321:A:PHE:HD2	17	0.8
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	1	0.8
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE1	2	0.79
(1,927)	2:995:B:ARG:HB2	2:992:B:PHE:HE2	2	0.79
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	17	0.79
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	17	0.79
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	19	0.78
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	5	0.78
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	5	0.78
(1,763)	1:2321:A:PHE:H	1:2321:A:PHE:HD2	7	0.77
(1,21)	1:2238:A:ALA:HA	1:2311:A:PHE:HD2	2	0.77
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB2	5	0.76
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB3	5	0.76
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	3	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	2	0.76
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	2	0.76
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	6	0.75
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	9	0.75
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	12	0.75
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	16	0.75
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	16	0.75
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	13	0.74
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	15	0.74
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	14	0.74
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	14	0.74
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	6	0.74
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	18	0.74
(1,21)	1:2238:A:ALA:HA	1:2311:A:PHE:HD2	9	0.74
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	17	0.73
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	3	0.73
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	1	0.72
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	4	0.72
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	10	0.72
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	10	0.72
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	11	0.72
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	11	0.72
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	9	0.72
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	12	0.72
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	5	0.71
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	10	0.7
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	16	0.7
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	3	0.7
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	2	0.69
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	14	0.69
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	15	0.69
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	1	0.68
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:ND2	1	0.67
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	18	0.67
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	18	0.67
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	18	0.67
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG2	19	0.66
(1,932)	2:996:B:ASN:HD21	2:995:B:ARG:HG3	19	0.66
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	8	0.66
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	11	0.66
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	11	0.66
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	14	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,996)	2:1008:B:GLU:H	2:1006:B:GLU:HA	14	0.65
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	7	0.65
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	7	0.65
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	8	0.65
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	8	0.65
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	2	0.64
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	8	0.64
(1,996)	2:1008:B:GLU:H	2:1006:B:GLU:HA	13	0.63
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	10	0.62
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	9	0.62
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	1	0.61
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	1	0.61
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	7	0.61
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	7	0.61
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	18	0.61
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	7	0.6
(1,928)	2:995:B:ARG:HB3	2:996:B:ASN:H	20	0.59
(2,4)	3:720:C:THR:OG1	1:2312:A:ASN:OD1	3	0.57
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD11	17	0.55
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD12	17	0.55
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD13	17	0.55
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD21	17	0.55
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD22	17	0.55
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD23	17	0.55
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	19	0.55
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	19	0.55
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	17	0.55
(1,921)	2:995:B:ARG:HG2	2:996:B:ASN:H	20	0.54
(1,921)	2:995:B:ARG:HG3	2:996:B:ASN:H	20	0.54
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	6	0.54
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	6	0.54
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	11	0.53
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	11	0.53
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	6	0.53
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	6	0.53
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	8	0.53
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	8	0.53
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	7	0.52
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	16	0.52
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	16	0.52
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	5	0.52
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	5	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	13	0.52
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	13	0.52
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	1	0.52
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	1	0.52
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	5	0.52
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	5	0.52
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	14	0.52
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	14	0.52
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	18	0.52
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	18	0.52
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	3	0.51
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	3	0.51
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	8	0.51
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	8	0.51
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	18	0.51
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	18	0.51
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	2	0.51
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	2	0.51
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	3	0.51
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	3	0.51
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	4	0.51
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	4	0.51
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	10	0.51
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	10	0.51
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	12	0.51
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	12	0.51
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	17	0.51
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	17	0.51
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	3	0.51
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	3	0.51
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	4	0.51
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	4	0.51
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	9	0.51
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	9	0.51
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	18	0.51
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	18	0.51
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	4	0.51
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	4	0.51
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	10	0.51
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	10	0.51
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	17	0.51
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	17	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	4	0.5
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	4	0.5
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	7	0.5
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	7	0.5
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	10	0.5
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	10	0.5
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	14	0.5
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	14	0.5
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	20	0.5
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	20	0.5
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	14	0.5
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	14	0.5
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	15	0.5
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	15	0.5
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	16	0.5
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	16	0.5
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	18	0.5
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	18	0.5
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	2	0.5
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	2	0.5
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	8	0.5
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	8	0.5
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	10	0.5
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	10	0.5
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	12	0.5
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	12	0.5
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	13	0.5
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	13	0.5
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	5	0.5
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	5	0.5
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	12	0.5
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	12	0.5
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	14	0.5
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	14	0.5
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	11	0.49
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	11	0.49
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	13	0.49
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	13	0.49
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	17	0.49
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	17	0.49
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	9	0.49
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	9	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	15	0.49
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	15	0.49
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	16	0.49
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	16	0.49
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	20	0.49
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	20	0.49
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	6	0.49
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	6	0.49
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	16	0.49
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	16	0.49
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	15	0.49
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	2	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	2	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	5	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	5	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	6	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	6	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	9	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	9	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	12	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	12	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	15	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	15	0.48
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	7	0.48
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	7	0.48
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	8	0.48
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	8	0.48
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	11	0.48
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	11	0.48
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	2	0.48
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	2	0.48
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	9	0.48
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	9	0.48
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	15	0.48
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	15	0.48
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE1	19	0.47
(1,913)	2:994:B:LYS:HA	2:992:B:PHE:HE2	19	0.47
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	17	0.47
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	17	0.47
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	13	0.47
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	13	0.47
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	15	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	20	0.46
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	20	0.46
(1,894)	2:993:B:PHE:HE1	2:989:B:LYS:HA	19	0.46
(1,894)	2:993:B:PHE:HE2	2:989:B:LYS:HA	19	0.46
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	3	0.46
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	3	0.46
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	11	0.46
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	11	0.46
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	19	0.46
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	19	0.46
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	9	0.46
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	19	0.45
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	15	0.45
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	15	0.45
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	1	0.45
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	1	0.45
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	9	0.45
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	9	0.45
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	4	0.45
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	13	0.45
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	16	0.45
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	17	0.45
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	17	0.45
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	16	0.44
(1,909)	2:993:B:PHE:HE1	2:995:B:ARG:HB2	1	0.44
(1,909)	2:993:B:PHE:HE2	2:995:B:ARG:HB2	1	0.44
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	8	0.44
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	8	0.44
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	12	0.44
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	12	0.44
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	19	0.44
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	19	0.44
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	13	0.44
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	1	0.44
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	8	0.44
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	10	0.44
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	12	0.44
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	14	0.44
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	18	0.44
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	20	0.44
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	12	0.43
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB2	8	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB3	8	0.43
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	20	0.43
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	20	0.43
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	2	0.43
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	2	0.43
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	6	0.43
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	6	0.43
(1,819)	2:988:B:TRP:HZ2	2:988:B:TRP:HA	3	0.43
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	4	0.42
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	4	0.42
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	10	0.42
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	10	0.42
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	17	0.42
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	17	0.42
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	5	0.41
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	5	0.41
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	13	0.41
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	13	0.41
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	18	0.41
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	18	0.41
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	18	0.4
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	1	0.4
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	1	0.4
(1,819)	2:988:B:TRP:HZ2	2:988:B:TRP:HA	15	0.4
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	6	0.4
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	1	0.39
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	2	0.39
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	4	0.39
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	14	0.39
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	14	0.39
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	14	0.39
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	2	0.39
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	5	0.39
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	10	0.38
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	11	0.38
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	12	0.38
(1,888)	2:993:B:PHE:HE1	2:995:B:ARG:HA	7	0.38
(1,888)	2:993:B:PHE:HE2	2:995:B:ARG:HA	7	0.38
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	16	0.38
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	16	0.38
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	19	0.38
(1,754)	1:2319:A:SER:HB2	1:2321:A:PHE:HD2	9	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	20	0.37
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	9	0.37
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	3	0.37
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	15	0.37
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	13	0.37
(1,601)	1:2305:A:TYR:HE1	1:2306:A:GLU:HA	16	0.37
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	19	0.37
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	5	0.36
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	14	0.36
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	13	0.36
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	13	0.36
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	3	0.36
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	3	0.36
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	5	0.36
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	7	0.36
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	7	0.35
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	7	0.35
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	4	0.35
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	11	0.35
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	11	0.35
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	13	0.35
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	6	0.34
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	2	0.34
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	3	0.34
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	18	0.34
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	18	0.34
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	2	0.34
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	2	0.34
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	16	0.34
(1,712)	1:2315:A:HIS:HA	1:2315:A:HIS:HD2	16	0.34
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	7	0.34
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	7	0.34
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	7	0.34
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	14	0.34
(1,21)	1:2238:A:ALA:HA	1:2311:A:PHE:HD2	19	0.34
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	17	0.33
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	1	0.33
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	1	0.33
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	8	0.33
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	18	0.33
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	14	0.33
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	14	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	16	0.33
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	16	0.33
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	6	0.33
(1,766)	1:2321:A:PHE:HD2	1:2322:A:VAL:H	20	0.33
(1,712)	1:2315:A:HIS:HA	1:2315:A:HIS:HD2	15	0.33
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	8	0.33
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	10	0.33
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	1	0.32
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	8	0.32
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	8	0.32
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	10	0.32
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	10	0.32
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	12	0.32
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	12	0.32
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	13	0.32
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	13	0.32
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	17	0.32
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	17	0.32
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	1	0.32
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	1	0.32
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	20	0.32
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	20	0.32
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	17	0.32
(1,814)	2:988:B:TRP:HZ2	2:988:B:TRP:HB3	11	0.32
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	11	0.32
(1,391)	1:2275:A:VAL:HG21	1:2277:A:GLY:H	20	0.32
(1,391)	1:2275:A:VAL:HG22	1:2277:A:GLY:H	20	0.32
(1,391)	1:2275:A:VAL:HG23	1:2277:A:GLY:H	20	0.32
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	19	0.32
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	19	0.32
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	19	0.32
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	3	0.32
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	3	0.31
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	19	0.31
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	17	0.31
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	3	0.31
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	3	0.31
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	4	0.31
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	4	0.31
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	5	0.31
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	5	0.31
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	20	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	20	0.31
(1,835)	2:989:B:LYS:HD2	2:990:B:VAL:H	7	0.31
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	4	0.31
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	12	0.31
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	3	0.31
(1,391)	1:2275:A:VAL:HG21	1:2277:A:GLY:H	5	0.31
(1,391)	1:2275:A:VAL:HG22	1:2277:A:GLY:H	5	0.31
(1,391)	1:2275:A:VAL:HG23	1:2277:A:GLY:H	5	0.31
(1,391)	1:2275:A:VAL:HG21	1:2277:A:GLY:H	9	0.31
(1,391)	1:2275:A:VAL:HG22	1:2277:A:GLY:H	9	0.31
(1,391)	1:2275:A:VAL:HG23	1:2277:A:GLY:H	9	0.31
(1,391)	1:2275:A:VAL:HG21	1:2277:A:GLY:H	13	0.31
(1,391)	1:2275:A:VAL:HG22	1:2277:A:GLY:H	13	0.31
(1,391)	1:2275:A:VAL:HG23	1:2277:A:GLY:H	13	0.31
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	5	0.31
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	5	0.31
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	5	0.31
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	12	0.31
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	14	0.3
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	8	0.3
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	10	0.3
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	10	0.3
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	16	0.3
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	16	0.3
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	15	0.3
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	15	0.3
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	2	0.3
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	2	0.3
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	6	0.3
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	6	0.3
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	9	0.3
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	9	0.3
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	11	0.3
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	11	0.3
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	15	0.3
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	15	0.3
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	19	0.3
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	19	0.3
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	7	0.3
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	7	0.3
(1,864)	2:992:B:PHE:HB2	2:995:B:ARG:HA	7	0.3
(1,864)	2:992:B:PHE:HB3	2:995:B:ARG:HA	7	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	20	0.3
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	20	0.3
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	17	0.3
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	17	0.3
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	17	0.3
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	2	0.3
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	2	0.3
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	2	0.3
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	16	0.3
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	16	0.3
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	16	0.3
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB2	16	0.29
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB3	16	0.29
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	9	0.29
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	9	0.29
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	1	0.29
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	1	0.29
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	20	0.29
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	20	0.29
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	1	0.29
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	8	0.29
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	10	0.29
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	14	0.29
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG11	12	0.29
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG12	12	0.29
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG13	12	0.29
(2,2)	3:716:C:LYS:NZ	1:2240:A:LYS:NZ	18	0.28
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	15	0.28
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	15	0.28
(1,1295)	3:759:C:TYR:H	3:757:C:ILE:HG21	8	0.28
(1,1111)	3:731:C:GLU:HB3	3:732:C:GLU:H	6	0.28
(1,1111)	3:731:C:GLU:HB3	3:732:C:GLU:H	9	0.28
(1,1111)	3:731:C:GLU:HB3	3:732:C:GLU:H	10	0.28
(1,1111)	3:731:C:GLU:HB3	3:732:C:GLU:H	11	0.28
(1,1111)	3:731:C:GLU:HB3	3:732:C:GLU:H	13	0.28
(1,1111)	3:731:C:GLU:HB3	3:732:C:GLU:H	17	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	3	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	3	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	4	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	4	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	7	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	11	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	11	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	13	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	13	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	19	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	19	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	20	0.28
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	20	0.28
(1,904)	2:993:B:PHE:HE1	2:995:B:ARG:HB3	7	0.28
(1,904)	2:993:B:PHE:HE2	2:995:B:ARG:HB3	7	0.28
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	18	0.28
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	20	0.28
(1,712)	1:2315:A:HIS:HA	1:2315:A:HIS:HD2	6	0.28
(1,712)	1:2315:A:HIS:HA	1:2315:A:HIS:HD2	13	0.28
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	6	0.28
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	10	0.28
(1,391)	1:2275:A:VAL:HG21	1:2277:A:GLY:H	1	0.28
(1,391)	1:2275:A:VAL:HG22	1:2277:A:GLY:H	1	0.28
(1,391)	1:2275:A:VAL:HG23	1:2277:A:GLY:H	1	0.28
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	6	0.28
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	6	0.28
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	6	0.28
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	8	0.28
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	8	0.28
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	8	0.28
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	20	0.28
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	20	0.28
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	20	0.28
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	11	0.28
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	11	0.28
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	11	0.28
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	17	0.28
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	17	0.28
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	17	0.28
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	8	0.28
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	8	0.28
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	8	0.28
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	9	0.27
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	9	0.27
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	9	0.27
(1,1111)	3:731:C:GLU:HB3	3:732:C:GLU:H	7	0.27
(1,1111)	3:731:C:GLU:HB3	3:732:C:GLU:H	15	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1111)	3:731:C:GLU:HB3	3:732:C:GLU:H	18	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	5	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	5	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	6	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	6	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	14	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	14	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	16	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	16	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	17	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	17	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	18	0.27
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	18	0.27
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	11	0.27
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	11	0.27
(1,819)	2:988:B:TRP:HZ2	2:988:B:TRP:HA	7	0.27
(1,662)	1:2310:A:LYS:HE3	1:2311:A:PHE:HA	14	0.27
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	8	0.27
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	1	0.27
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	18	0.27
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	20	0.27
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	4	0.27
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	4	0.27
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	4	0.27
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	16	0.27
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	11	0.27
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	11	0.27
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	11	0.27
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	19	0.27
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	19	0.27
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	19	0.27
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	2	0.27
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	6	0.27
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	9	0.27
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	5	0.27
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	5	0.27
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	5	0.27
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	3	0.27
(1,1332)	3:750:C:ALA:H	1:2273:A:ILE:H	13	0.26
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	3	0.26
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	3	0.26
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	12	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	12	0.26
(1,1295)	3:759:C:TYR:H	3:757:C:ILE:HG23	3	0.26
(1,1232)	3:748:C:LYS:H	3:748:C:LYS:HD2	10	0.26
(1,1232)	3:748:C:LYS:H	3:748:C:LYS:HD3	10	0.26
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB2	12	0.26
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB3	12	0.26
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	2	0.26
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	2	0.26
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	8	0.26
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	8	0.26
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	10	0.26
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	10	0.26
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	12	0.26
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	12	0.26
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	6	0.26
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	6	0.26
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	15	0.26
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG11	13	0.26
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG12	13	0.26
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG13	13	0.26
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	14	0.26
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	2	0.26
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	4	0.26
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	6	0.26
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	12	0.26
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	13	0.26
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	15	0.26
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	6	0.26
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	6	0.26
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	6	0.26
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	7	0.26
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	7	0.26
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	7	0.26
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	10	0.26
(1,391)	1:2275:A:VAL:HG21	1:2277:A:GLY:H	14	0.26
(1,391)	1:2275:A:VAL:HG22	1:2277:A:GLY:H	14	0.26
(1,391)	1:2275:A:VAL:HG23	1:2277:A:GLY:H	14	0.26
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	20	0.26
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	7	0.26
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	15	0.26
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	18	0.26
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	20	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	3	0.26
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	3	0.26
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	3	0.26
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	14	0.26
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	14	0.26
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	14	0.26
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	18	0.26
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	18	0.26
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	18	0.26
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	15	0.26
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	4	0.26
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	5	0.26
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	11	0.25
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	11	0.25
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	5	0.25
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	15	0.25
(1,1281)	3:757:C:ILE:H	3:757:C:ILE:HB	1	0.25
(1,1155)	3:736:C:ARG:HB3	3:737:C:ALA:H	20	0.25
(1,1146)	3:735:C:ALA:H	3:735:C:ALA:HA	11	0.25
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE1	1	0.25
(1,919)	2:995:B:ARG:HB3	2:992:B:PHE:HE2	1	0.25
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	3	0.25
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	3	0.25
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	9	0.25
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	9	0.25
(1,819)	2:988:B:TRP:HZ2	2:988:B:TRP:HA	6	0.25
(1,819)	2:988:B:TRP:HZ2	2:988:B:TRP:HA	11	0.25
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	2	0.25
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	3	0.25
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	6	0.25
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	7	0.25
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	11	0.25
(1,766)	1:2321:A:PHE:HD2	1:2322:A:VAL:H	12	0.25
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	17	0.25
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	13	0.25
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG11	14	0.25
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG12	14	0.25
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG13	14	0.25
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	11	0.25
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	5	0.25
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	7	0.25
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	16	0.25
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	11	0.25
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	17	0.25
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	3	0.25
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	7	0.25
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	9	0.25
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	11	0.25
(1,391)	1:2275:A:VAL:HG21	1:2277:A:GLY:H	10	0.25
(1,391)	1:2275:A:VAL:HG22	1:2277:A:GLY:H	10	0.25
(1,391)	1:2275:A:VAL:HG23	1:2277:A:GLY:H	10	0.25
(1,391)	1:2275:A:VAL:HG21	1:2277:A:GLY:H	18	0.25
(1,391)	1:2275:A:VAL:HG22	1:2277:A:GLY:H	18	0.25
(1,391)	1:2275:A:VAL:HG23	1:2277:A:GLY:H	18	0.25
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	1	0.25
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	4	0.25
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	13	0.25
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	5	0.25
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	16	0.25
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	7	0.25
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	15	0.25
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	17	0.25
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	10	0.25
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	10	0.25
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	10	0.25
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	13	0.25
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	9	0.25
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	9	0.25
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	9	0.25
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	11	0.25
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	11	0.25
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	11	0.25
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	2	0.25
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	1	0.24
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	3	0.24
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	4	0.24
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	4	0.24
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	6	0.24
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	6	0.24
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	8	0.24
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	8	0.24
(1,1307)	3:762:C:THR:H	3:762:C:THR:HB	18	0.24
(1,1293)	3:759:C:TYR:H	3:758:C:THR:HG21	12	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1293)	3:759:C:TYR:H	3:758:C:THR:HG22	12	0.24
(1,1293)	3:759:C:TYR:H	3:758:C:THR:HG23	12	0.24
(1,1152)	3:736:C:ARG:H	3:732:C:GLU:HG2	16	0.24
(1,1150)	3:735:C:ALA:H	3:736:C:ARG:HB3	18	0.24
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	5	0.24
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	5	0.24
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	15	0.24
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	15	0.24
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	19	0.24
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	19	0.24
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	7	0.24
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	5	0.24
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	15	0.24
(1,662)	1:2310:A:LYS:HE3	1:2311:A:PHE:HA	19	0.24
(1,609)	1:2305:A:TYR:HD1	1:2325:A:VAL:HB	8	0.24
(1,603)	1:2305:A:TYR:HB2	1:2306:A:GLU:H	2	0.24
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	19	0.24
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	3	0.24
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	8	0.24
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	14	0.24
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	16	0.24
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	16	0.24
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	16	0.24
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	20	0.24
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	20	0.24
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	20	0.24
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	12	0.24
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	11	0.24
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	17	0.24
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	17	0.24
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	19	0.24
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	4	0.24
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	11	0.24
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	13	0.24
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	19	0.24
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	5	0.24
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	5	0.24
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	5	0.24
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	12	0.24
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	12	0.24
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	12	0.24
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	3	0.24
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	3	0.24
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	15	0.24
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	19	0.24
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	8	0.23
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	19	0.23
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	13	0.23
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	13	0.23
(1,1316)	1:2238:A:ALA:H	2:989:B:LYS:HB2	16	0.23
(1,1307)	3:762:C:THR:H	3:762:C:THR:HB	7	0.23
(1,1140)	3:734:C:ARG:H	3:733:C:GLU:HG3	5	0.23
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	4	0.23
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	4	0.23
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	13	0.23
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	13	0.23
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	16	0.23
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	16	0.23
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	11	0.23
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	20	0.23
(1,815)	2:988:B:TRP:HB2	2:988:B:TRP:HH2	19	0.23
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	18	0.23
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	2	0.23
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	11	0.23
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	17	0.23
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	19	0.23
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	3	0.23
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	3	0.23
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	3	0.23
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	2	0.23
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	19	0.23
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	18	0.23
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	10	0.23
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	10	0.23
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	10	0.23
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	10	0.23
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	6	0.23
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	5	0.23
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	5	0.23
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	5	0.23
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	16	0.23
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	19	0.23
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	18	0.23
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	20	0.23
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	1	0.23
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	12	0.23
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	12	0.23
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	12	0.23
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	16	0.22
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	20	0.22
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	20	0.22
(1,1295)	3:759:C:TYR:H	3:757:C:ILE:HG13	5	0.22
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	20	0.22
(1,1010)	3:716:C:LYS:HA	3:719:C:ILE:HB	10	0.22
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	14	0.22
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	14	0.22
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	17	0.22
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	17	0.22
(1,819)	2:988:B:TRP:HZ2	2:988:B:TRP:HA	5	0.22
(1,819)	2:988:B:TRP:HZ2	2:988:B:TRP:HA	19	0.22
(1,712)	1:2315:A:HIS:HA	1:2315:A:HIS:HD2	2	0.22
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	5	0.22
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	16	0.22
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG11	10	0.22
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG12	10	0.22
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG13	10	0.22
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	7	0.22
(1,568)	1:2300:A:GLN:HB3	1:2301:A:GLU:H	10	0.22
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	15	0.22
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	15	0.22
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	15	0.22
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	7	0.22
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	10	0.22
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	10	0.22
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	15	0.22
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	17	0.22
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	17	0.22
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	14	0.22
(1,386)	1:2275:A:VAL:HG21	1:2276:A:GLU:H	15	0.22
(1,386)	1:2275:A:VAL:HG22	1:2276:A:GLU:H	15	0.22
(1,386)	1:2275:A:VAL:HG23	1:2276:A:GLU:H	15	0.22
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	14	0.22
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	14	0.22
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	14	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	5	0.22
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	13	0.22
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	13	0.22
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	13	0.22
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	13	0.22
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	9	0.22
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	1	0.22
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	2	0.22
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	5	0.22
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	6	0.22
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	9	0.22
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	10	0.22
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	11	0.22
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	16	0.22
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	7	0.22
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	7	0.22
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	7	0.22
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	13	0.22
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	16	0.22
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	18	0.22
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	14	0.22
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	2	0.22
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	2	0.22
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	2	0.22
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	8	0.22
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	8	0.22
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	8	0.22
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	10	0.22
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	10	0.22
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	10	0.22
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	13	0.22
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	13	0.22
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	13	0.22
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	15	0.22
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	15	0.22
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	15	0.22
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	18	0.22
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	18	0.22
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	18	0.22
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	19	0.22
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	19	0.22
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	10	0.22
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	11	0.21
(1,1318)	1:2269:A:GLY:H	3:721:C:ILE:HB	9	0.21
(1,1307)	3:762:C:THR:H	3:762:C:THR:HB	2	0.21
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	1	0.21
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	12	0.21
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	8	0.21
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	8	0.21
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	10	0.21
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	10	0.21
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	12	0.21
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	12	0.21
(1,871)	2:992:B:PHE:HD1	2:994:B:LYS:HA	18	0.21
(1,871)	2:992:B:PHE:HD2	2:994:B:LYS:HA	18	0.21
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	3	0.21
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	16	0.21
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	17	0.21
(1,766)	1:2321:A:PHE:HD2	1:2322:A:VAL:H	18	0.21
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	16	0.21
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	20	0.21
(1,629)	1:2307:A:VAL:H	1:2308:A:SER:HA	9	0.21
(1,629)	1:2307:A:VAL:H	1:2308:A:SER:HA	10	0.21
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	5	0.21
(1,587)	1:2304:A:ASP:H	1:2304:A:ASP:HB3	10	0.21
(1,587)	1:2304:A:ASP:H	1:2304:A:ASP:HB3	14	0.21
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	14	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	5	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	5	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	5	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	17	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	17	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	17	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	18	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	18	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	18	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	19	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	19	0.21
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	19	0.21
(1,437)	1:2279:A:SER:HB3	1:2301:A:GLU:HG3	17	0.21
(1,414)	1:2277:A:GLY:HA2	1:2306:A:GLU:HA	10	0.21
(1,386)	1:2275:A:VAL:HG21	1:2276:A:GLU:H	2	0.21
(1,386)	1:2275:A:VAL:HG22	1:2276:A:GLU:H	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,386)	1:2275:A:VAL:HG23	1:2276:A:GLU:H	2	0.21
(1,375)	1:2274:A:ALA:HA	1:2308:A:SER:HB3	3	0.21
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	5	0.21
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	7	0.21
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	10	0.21
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	20	0.21
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	20	0.21
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	20	0.21
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	7	0.21
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	7	0.21
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	7	0.21
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	4	0.21
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	11	0.21
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	1	0.21
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	3	0.21
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	5	0.21
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	7	0.21
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	15	0.21
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	4	0.21
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	19	0.21
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	19	0.21
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	19	0.21
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	4	0.21
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	4	0.21
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	4	0.21
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	20	0.21
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	20	0.21
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	20	0.21
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	1	0.21
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	13	0.21
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	2	0.2
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	12	0.2
(1,1151)	3:736:C:ARG:H	3:736:C:ARG:HG2	4	0.2
(1,1151)	3:736:C:ARG:H	3:736:C:ARG:HG3	4	0.2
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	19	0.2
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB2	6	0.2
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB3	6	0.2
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	4	0.2
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	5	0.2
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	6	0.2
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	8	0.2
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	10	0.2
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	12	0.2
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	13	0.2
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	14	0.2
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	18	0.2
(1,819)	2:988:B:TRP:HZ2	2:988:B:TRP:HA	2	0.2
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	5	0.2
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	18	0.2
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	18	0.2
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	2	0.2
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	9	0.2
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	7	0.2
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	12	0.2
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	19	0.2
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	13	0.2
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	17	0.2
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	4	0.2
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	4	0.2
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	4	0.2
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	12	0.2
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	12	0.2
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	12	0.2
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	11	0.2
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	8	0.2
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	10	0.2
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	15	0.2
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	1	0.2
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	1	0.2
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	1	0.2
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	13	0.2
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	13	0.2
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	13	0.2
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	3	0.2
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	1	0.2
(1,375)	1:2274:A:ALA:HA	1:2308:A:SER:HB3	8	0.2
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	11	0.2
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	9	0.2
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	20	0.2
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	9	0.2
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	9	0.2
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	9	0.2
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	16	0.2
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	16	0.2
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	18	0.2
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	18	0.2
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	18	0.2
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	2	0.2
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	2	0.2
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	2	0.2
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	17	0.2
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	17	0.2
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	17	0.2
(1,225)	1:2253:A:ALA:HA	1:2301:A:GLU:HB3	1	0.2
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	2	0.2
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	6	0.2
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	8	0.2
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	13	0.2
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	14	0.2
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	8	0.2
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	9	0.2
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	9	0.2
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	9	0.2
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	15	0.2
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD11	8	0.2
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD12	8	0.2
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD13	8	0.2
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD11	14	0.2
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD12	14	0.2
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD13	14	0.2
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD11	18	0.2
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD12	18	0.2
(1,123)	1:2248:A:LEU:H	1:2248:A:LEU:HD13	18	0.2
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	9	0.2
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	17	0.2
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	20	0.2
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	6	0.2
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	6	0.2
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	6	0.2
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	12	0.2
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	16	0.2
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	2	0.19
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	2	0.19
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1316)	1:2238:A:ALA:H	2:989:B:LYS:HB2	8	0.19
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	2	0.19
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	14	0.19
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	16	0.19
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	2	0.19
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	16	0.19
(1,996)	2:1008:B:GLU:H	2:1006:B:GLU:HA	10	0.19
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB2	13	0.19
(1,966)	2:1002:B:GLU:H	2:1000:B:LEU:HB3	13	0.19
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD11	14	0.19
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD12	14	0.19
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD13	14	0.19
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD21	14	0.19
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD22	14	0.19
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD23	14	0.19
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	1	0.19
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	19	0.19
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	7	0.19
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	13	0.19
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	15	0.19
(1,766)	1:2321:A:PHE:HD2	1:2322:A:VAL:H	9	0.19
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	12	0.19
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	19	0.19
(1,631)	1:2307:A:VAL:HB	1:2309:A:VAL:HA	10	0.19
(1,587)	1:2304:A:ASP:H	1:2304:A:ASP:HB3	8	0.19
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	1	0.19
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	1	0.19
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	1	0.19
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	9	0.19
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	9	0.19
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	9	0.19
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	2	0.19
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	5	0.19
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	9	0.19
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	17	0.19
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	3	0.19
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	18	0.19
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	20	0.19
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	2	0.19
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	2	0.19
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	2	0.19
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	9	0.19
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	9	0.19
(1,437)	1:2279:A:SER:HB3	1:2301:A:GLU:HG3	6	0.19
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	5	0.19
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	7	0.19
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	8	0.19
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	17	0.19
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	19	0.19
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	6	0.19
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	6	0.19
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	13	0.19
(1,386)	1:2275:A:VAL:HG21	1:2276:A:GLU:H	4	0.19
(1,386)	1:2275:A:VAL:HG22	1:2276:A:GLU:H	4	0.19
(1,386)	1:2275:A:VAL:HG23	1:2276:A:GLU:H	4	0.19
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	16	0.19
(1,279)	1:2258:A:GLU:HB2	1:2259:A:PHE:H	16	0.19
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	3	0.19
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	1	0.19
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	1	0.19
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	1	0.19
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	15	0.19
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	15	0.19
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	15	0.19
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	11	0.19
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	11	0.19
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	11	0.19
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	19	0.19
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	19	0.19
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	19	0.19
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	10	0.19
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	17	0.19
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	12	0.19
(1,182)	1:2252:A:GLU:H	1:2252:A:GLU:HG3	14	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	2	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	2	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	2	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	6	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	6	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	6	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	11	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	11	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	11	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	13	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	13	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	13	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	16	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	16	0.19
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	16	0.19
(1,137)	1:2248:A:LEU:HD21	1:2307:A:VAL:HB	18	0.19
(1,137)	1:2248:A:LEU:HD22	1:2307:A:VAL:HB	18	0.19
(1,137)	1:2248:A:LEU:HD23	1:2307:A:VAL:HB	18	0.19
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	7	0.19
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	1	0.19
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	20	0.19
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	1	0.19
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	1	0.19
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	1	0.19
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	8	0.19
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	9	0.19
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	11	0.19
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	17	0.18
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	18	0.18
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	5	0.18
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	5	0.18
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	6	0.18
(1,1316)	1:2238:A:ALA:H	2:989:B:LYS:HB2	2	0.18
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB2	7	0.18
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB3	7	0.18
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	3	0.18
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	8	0.18
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	10	0.18
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	11	0.18
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	13	0.18
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	17	0.18
(1,983)	2:1005:B:GLU:H	2:1005:B:GLU:HB3	11	0.18
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	2	0.18
(1,856)	2:992:B:PHE:H	2:992:B:PHE:HA	15	0.18
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	2	0.18
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	3	0.18
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	4	0.18
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	8	0.18
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	10	0.18
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	12	0.18
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	19	0.18
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	12	0.18
(1,629)	1:2307:A:VAL:H	1:2308:A:SER:HA	14	0.18
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	15	0.18
(1,587)	1:2304:A:ASP:H	1:2304:A:ASP:HB3	12	0.18
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	7	0.18
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	18	0.18
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	4	0.18
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	6	0.18
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	13	0.18
(1,557)	1:2299:A:VAL:HG21	1:2301:A:GLU:HB2	13	0.18
(1,557)	1:2299:A:VAL:HG22	1:2301:A:GLU:HB2	13	0.18
(1,557)	1:2299:A:VAL:HG23	1:2301:A:GLU:HB2	13	0.18
(1,485)	1:2286:A:GLU:H	1:2286:A:GLU:HB3	8	0.18
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	11	0.18
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	11	0.18
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	11	0.18
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	11	0.18
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	16	0.18
(1,422)	1:2278:A:PRO:HB2	1:2305:A:TYR:HA	7	0.18
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	13	0.18
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	7	0.18
(1,386)	1:2275:A:VAL:HG21	1:2276:A:GLU:H	12	0.18
(1,386)	1:2275:A:VAL:HG22	1:2276:A:GLU:H	12	0.18
(1,386)	1:2275:A:VAL:HG23	1:2276:A:GLU:H	12	0.18
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	9	0.18
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	9	0.18
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	9	0.18
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	15	0.18
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	15	0.18
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	15	0.18
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	2	0.18
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	8	0.18
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	14	0.18
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	1	0.18
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	4	0.18
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	16	0.18
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	6	0.18
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	6	0.18
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	6	0.18
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	8	0.18
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	8	0.18
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	15	0.18
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	15	0.18
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	15	0.18
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	12	0.18
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	20	0.18
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	20	0.18
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	20	0.18
(1,108)	1:2246:A:PRO:HB3	1:2259:A:PHE:HA	16	0.18
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	13	0.18
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	15	0.18
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	6	0.18
(1,22)	1:2238:A:ALA:H	1:2311:A:PHE:HD2	16	0.18
(1,6)	1:2237:A:GLY:HA3	1:2240:A:LYS:HB3	16	0.18
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	9	0.17
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	17	0.17
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	17	0.17
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	16	0.17
(1,1315)	1:2273:A:ILE:H	2:997:B:ARG:H	3	0.17
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB1	18	0.17
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB2	18	0.17
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB3	18	0.17
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	4	0.17
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	6	0.17
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	9	0.17
(1,968)	2:1002:B:GLU:H	2:1002:B:GLU:HB3	10	0.17
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	6	0.17
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	9	0.17
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	11	0.17
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	14	0.17
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	20	0.17
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	8	0.17
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	10	0.17
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	13	0.17
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	14	0.17
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	18	0.17
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	20	0.17
(1,662)	1:2310:A:LYS:HE3	1:2311:A:PHE:HA	8	0.17
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	7	0.17
(1,609)	1:2305:A:TYR:HD1	1:2325:A:VAL:HB	10	0.17
(1,609)	1:2305:A:TYR:HD1	1:2325:A:VAL:HB	14	0.17
(1,603)	1:2305:A:TYR:HB2	1:2306:A:GLU:H	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	11	0.17
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	13	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	3	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	3	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	3	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	5	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	5	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	5	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	13	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	13	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	13	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	14	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	14	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	14	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	18	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	18	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	18	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	20	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	20	0.17
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	20	0.17
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	6	0.17
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	19	0.17
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	9	0.17
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	16	0.17
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	12	0.17
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	12	0.17
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	12	0.17
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	14	0.17
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	14	0.17
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	14	0.17
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	4	0.17
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	8	0.17
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	14	0.17
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	2	0.17
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	14	0.17
(1,414)	1:2277:A:GLY:HA2	1:2306:A:GLU:HA	14	0.17
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	11	0.17
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	12	0.17
(1,391)	1:2275:A:VAL:HG21	1:2277:A:GLY:H	19	0.17
(1,391)	1:2275:A:VAL:HG22	1:2277:A:GLY:H	19	0.17
(1,391)	1:2275:A:VAL:HG23	1:2277:A:GLY:H	19	0.17
(1,386)	1:2275:A:VAL:HG21	1:2276:A:GLU:H	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,386)	1:2275:A:VAL:HG22	1:2276:A:GLU:H	7	0.17
(1,386)	1:2275:A:VAL:HG23	1:2276:A:GLU:H	7	0.17
(1,386)	1:2275:A:VAL:HG21	1:2276:A:GLU:H	17	0.17
(1,386)	1:2275:A:VAL:HG22	1:2276:A:GLU:H	17	0.17
(1,386)	1:2275:A:VAL:HG23	1:2276:A:GLU:H	17	0.17
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	3	0.17
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	2	0.17
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	10	0.17
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	14	0.17
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	14	0.17
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	14	0.17
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	18	0.17
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	17	0.17
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	17	0.17
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	17	0.17
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	12	0.17
(1,114)	1:2247:A:GLY:H	1:2249:A:GLU:HG2	13	0.17
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	4	0.17
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	5	0.17
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	3	0.17
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	4	0.17
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	5	0.17
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	6	0.17
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	13	0.17
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	15	0.17
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	4	0.17
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	6	0.17
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	8	0.17
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	10	0.17
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	11	0.17
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	16	0.17
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	2	0.17
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	7	0.17
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	17	0.17
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	19	0.17
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	7	0.17
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	13	0.16
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	19	0.16
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	19	0.16
(1,1318)	1:2269:A:GLY:H	3:721:C:ILE:HB	12	0.16
(1,1209)	3:744:C:ASN:H	3:744:C:ASN:HB3	13	0.16
(1,1185)	3:741:C:THR:H	3:741:C:THR:HA	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1185)	3:741:C:THR:H	3:741:C:THR:HA	8	0.16
(1,1185)	3:741:C:THR:H	3:741:C:THR:HA	16	0.16
(1,1185)	3:741:C:THR:H	3:741:C:THR:HA	18	0.16
(1,1185)	3:741:C:THR:H	3:741:C:THR:HA	19	0.16
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB1	19	0.16
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB2	19	0.16
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB3	19	0.16
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	9	0.16
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	11	0.16
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	7	0.16
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	15	0.16
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	18	0.16
(1,945)	2:997:B:ARG:H	2:998:B:PRO:HD3	6	0.16
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	16	0.16
(1,720)	1:2315:A:HIS:HB3	1:2319:A:SER:H	2	0.16
(1,719)	1:2315:A:HIS:HE1	1:2319:A:SER:HA	15	0.16
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	2	0.16
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	4	0.16
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	6	0.16
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	9	0.16
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	17	0.16
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	19	0.16
(1,662)	1:2310:A:LYS:HE3	1:2311:A:PHE:HA	3	0.16
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	6	0.16
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG11	1	0.16
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG12	1	0.16
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG13	1	0.16
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG11	4	0.16
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG12	4	0.16
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG13	4	0.16
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG11	8	0.16
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG12	8	0.16
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG13	8	0.16
(1,603)	1:2305:A:TYR:HB2	1:2306:A:GLU:H	17	0.16
(1,598)	1:2305:A:TYR:H	1:2305:A:TYR:HB2	1	0.16
(1,598)	1:2305:A:TYR:H	1:2305:A:TYR:HB2	4	0.16
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG11	8	0.16
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG12	8	0.16
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG13	8	0.16
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG11	10	0.16
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG12	10	0.16
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG13	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG11	14	0.16
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG12	14	0.16
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG13	14	0.16
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	6	0.16
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	6	0.16
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	6	0.16
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	16	0.16
(1,579)	1:2303:A:GLY:HA2	1:2324:A:PRO:HB3	1	0.16
(1,579)	1:2303:A:GLY:HA2	1:2324:A:PRO:HB3	4	0.16
(1,573)	1:2301:A:GLU:H	1:2301:A:GLU:HG3	11	0.16
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	5	0.16
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	12	0.16
(1,556)	1:2299:A:VAL:HB	1:2301:A:GLU:H	11	0.16
(1,556)	1:2299:A:VAL:HB	1:2301:A:GLU:H	17	0.16
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	8	0.16
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	8	0.16
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	8	0.16
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	11	0.16
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	17	0.16
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	9	0.16
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	12	0.16
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	4	0.16
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	1	0.16
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	9	0.16
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	20	0.16
(1,386)	1:2275:A:VAL:HG21	1:2276:A:GLU:H	19	0.16
(1,386)	1:2275:A:VAL:HG22	1:2276:A:GLU:H	19	0.16
(1,386)	1:2275:A:VAL:HG23	1:2276:A:GLU:H	19	0.16
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG21	1	0.16
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG22	1	0.16
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG23	1	0.16
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG21	6	0.16
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG22	6	0.16
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG23	6	0.16
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	3	0.16
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	15	0.16
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	17	0.16
(1,282)	1:2258:A:GLU:HA	1:2294:A:GLY:HA3	2	0.16
(1,279)	1:2258:A:GLU:HB2	1:2259:A:PHE:H	1	0.16
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	13	0.16
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	15	0.16
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	20	0.16
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	3	0.16
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	3	0.16
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	3	0.16
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	10	0.16
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	10	0.16
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	10	0.16
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	12	0.16
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	12	0.16
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	12	0.16
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	16	0.16
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	16	0.16
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	16	0.16
(1,188)	1:2252:A:GLU:HG3	1:2253:A:ALA:H	20	0.16
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	15	0.16
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	15	0.16
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	15	0.16
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	11	0.16
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	6	0.16
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	10	0.16
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	11	0.16
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	2	0.16
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	10	0.16
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	11	0.16
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	12	0.16
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	3	0.16
(1,90)	1:2244:A:GLY:HA2	1:2260:A:SER:H	2	0.16
(1,69)	1:2242:A:ARG:HB3	1:2260:A:SER:HB2	16	0.16
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	7	0.16
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	7	0.16
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	7	0.16
(1,25)	1:2239:A:HIS:H	1:2239:A:HIS:HB3	13	0.16
(1,1316)	1:2238:A:ALA:H	2:989:B:LYS:HB2	3	0.15
(1,1316)	1:2238:A:ALA:H	2:989:B:LYS:HB2	19	0.15
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB2	13	0.15
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB3	13	0.15
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB2	16	0.15
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB3	16	0.15
(1,1190)	3:742:C:ALA:H	3:742:C:ALA:HB1	1	0.15
(1,1190)	3:742:C:ALA:H	3:742:C:ALA:HB2	1	0.15
(1,1190)	3:742:C:ALA:H	3:742:C:ALA:HB3	1	0.15
(1,1185)	3:741:C:THR:H	3:741:C:THR:HA	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1129)	3:733:C:GLU:H	3:729:C:LYS:HD2	2	0.15
(1,1129)	3:733:C:GLU:H	3:729:C:LYS:HD3	2	0.15
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	6	0.15
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	7	0.15
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	10	0.15
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	13	0.15
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	15	0.15
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	17	0.15
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	3	0.15
(1,1090)	3:729:C:LYS:HD3	3:731:C:GLU:H	16	0.15
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	9	0.15
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	11	0.15
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	19	0.15
(1,810)	1:2328:A:PRO:HA	1:2330:A:GLY:HA3	1	0.15
(1,763)	1:2321:A:PHE:H	1:2321:A:PHE:HD2	3	0.15
(1,719)	1:2315:A:HIS:HE1	1:2319:A:SER:HA	6	0.15
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	3	0.15
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	11	0.15
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	1	0.15
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	9	0.15
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	14	0.15
(1,629)	1:2307:A:VAL:H	1:2308:A:SER:HA	5	0.15
(1,629)	1:2307:A:VAL:H	1:2308:A:SER:HA	12	0.15
(1,629)	1:2307:A:VAL:H	1:2308:A:SER:HA	13	0.15
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	4	0.15
(1,597)	1:2305:A:TYR:H	1:2305:A:TYR:HB3	12	0.15
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	10	0.15
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	10	0.15
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	10	0.15
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	10	0.15
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	3	0.15
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	20	0.15
(1,573)	1:2301:A:GLU:H	1:2301:A:GLU:HG3	1	0.15
(1,573)	1:2301:A:GLU:H	1:2301:A:GLU:HG3	20	0.15
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	7	0.15
(1,485)	1:2286:A:GLU:H	1:2286:A:GLU:HB3	10	0.15
(1,485)	1:2286:A:GLU:H	1:2286:A:GLU:HB3	17	0.15
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG11	10	0.15
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG12	10	0.15
(1,457)	1:2281:A:ALA:HA	1:2299:A:VAL:HG13	10	0.15
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	16	0.15
(1,428)	1:2279:A:SER:HB2	1:2280:A:LYS:H	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,428)	1:2279:A:SER:HB2	1:2280:A:LYS:H	17	0.15
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	8	0.15
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	19	0.15
(1,414)	1:2277:A:GLY:HA2	1:2306:A:GLU:HA	1	0.15
(1,413)	1:2277:A:GLY:HA3	1:2301:A:GLU:HB3	14	0.15
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	4	0.15
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG21	12	0.15
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG22	12	0.15
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG23	12	0.15
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	12	0.15
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	11	0.15
(1,279)	1:2258:A:GLU:HB2	1:2259:A:PHE:H	3	0.15
(1,279)	1:2258:A:GLU:HB2	1:2259:A:PHE:H	7	0.15
(1,279)	1:2258:A:GLU:HB2	1:2259:A:PHE:H	9	0.15
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	7	0.15
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	18	0.15
(1,269)	1:2257:A:ALA:H	1:2298:A:VAL:HB	12	0.15
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	18	0.15
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG11	4	0.15
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG12	4	0.15
(1,242)	1:2254:A:GLY:H	1:2325:A:VAL:HG13	4	0.15
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	8	0.15
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	8	0.15
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	8	0.15
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	9	0.15
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	9	0.15
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	9	0.15
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	1	0.15
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	1	0.15
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	1	0.15
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB1	4	0.15
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB2	4	0.15
(1,181)	1:2251:A:ALA:H	1:2326:A:ALA:HB3	4	0.15
(1,170)	1:2251:A:ALA:H	1:2324:A:PRO:HA	12	0.15
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	2	0.15
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	10	0.15
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	10	0.15
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	5	0.15
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	12	0.15
(1,81)	1:2243:A:ALA:HB1	1:2248:A:LEU:HB2	20	0.15
(1,81)	1:2243:A:ALA:HB2	1:2248:A:LEU:HB2	20	0.15
(1,81)	1:2243:A:ALA:HB3	1:2248:A:LEU:HB2	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	15	0.15
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB1	5	0.15
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB2	5	0.15
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB3	5	0.15
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB1	5	0.15
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB2	5	0.15
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB3	5	0.15
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB1	5	0.15
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB2	5	0.15
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB3	5	0.15
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB1	11	0.15
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB2	11	0.15
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB3	11	0.15
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB1	11	0.15
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB2	11	0.15
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB3	11	0.15
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB1	11	0.15
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB2	11	0.15
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB3	11	0.15
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	18	0.15
(1,9)	1:2238:A:ALA:H	1:2239:A:HIS:HA	16	0.15
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	15	0.14
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	14	0.14
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	14	0.14
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	7	0.14
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	9	0.14
(1,1298)	3:759:C:TYR:H	3:757:C:ILE:HD11	12	0.14
(1,1298)	3:759:C:TYR:H	3:757:C:ILE:HD12	12	0.14
(1,1298)	3:759:C:TYR:H	3:757:C:ILE:HD13	12	0.14
(1,1232)	3:748:C:LYS:H	3:748:C:LYS:HD2	9	0.14
(1,1232)	3:748:C:LYS:H	3:748:C:LYS:HD3	9	0.14
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB2	6	0.14
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB3	6	0.14
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB2	8	0.14
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB3	8	0.14
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB2	12	0.14
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB3	12	0.14
(1,1185)	3:741:C:THR:H	3:741:C:THR:HA	2	0.14
(1,1185)	3:741:C:THR:H	3:741:C:THR:HA	3	0.14
(1,1137)	3:733:C:GLU:HA	3:735:C:ALA:H	11	0.14
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB1	6	0.14
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB2	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB3	6	0.14
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB1	8	0.14
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB2	8	0.14
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB3	8	0.14
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	18	0.14
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	15	0.14
(1,1090)	3:729:C:LYS:HD3	3:731:C:GLU:H	2	0.14
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	7	0.14
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	17	0.14
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	6	0.14
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	13	0.14
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	17	0.14
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	10	0.14
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	12	0.14
(1,1035)	3:724:C:ARG:H	3:723:C:ASP:HA	18	0.14
(1,879)	2:992:B:PHE:HD1	2:988:B:TRP:HB3	16	0.14
(1,879)	2:992:B:PHE:HD2	2:988:B:TRP:HB3	16	0.14
(1,848)	2:991:B:GLY:H	2:990:B:VAL:HG11	20	0.14
(1,848)	2:991:B:GLY:H	2:990:B:VAL:HG12	20	0.14
(1,848)	2:991:B:GLY:H	2:990:B:VAL:HG13	20	0.14
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	15	0.14
(1,719)	1:2315:A:HIS:HE1	1:2319:A:SER:HA	16	0.14
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	1	0.14
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	7	0.14
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	15	0.14
(1,696)	1:2314:A:GLU:H	1:2314:A:GLU:HB3	5	0.14
(1,662)	1:2310:A:LYS:HE3	1:2311:A:PHE:HA	11	0.14
(1,659)	1:2310:A:LYS:H	1:2310:A:LYS:HB3	8	0.14
(1,631)	1:2307:A:VAL:HB	1:2309:A:VAL:HA	11	0.14
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	1	0.14
(1,606)	1:2305:A:TYR:H	1:2323:A:VAL:H	1	0.14
(1,606)	1:2305:A:TYR:H	1:2323:A:VAL:H	4	0.14
(1,603)	1:2305:A:TYR:HB2	1:2306:A:GLU:H	19	0.14
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	9	0.14
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	17	0.14
(1,598)	1:2305:A:TYR:H	1:2305:A:TYR:HB2	5	0.14
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	5	0.14
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	12	0.14
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	8	0.14
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	1	0.14
(1,556)	1:2299:A:VAL:HB	1:2301:A:GLU:H	5	0.14
(1,556)	1:2299:A:VAL:HB	1:2301:A:GLU:H	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,556)	1:2299:A:VAL:HB	1:2301:A:GLU:H	19	0.14
(1,485)	1:2286:A:GLU:H	1:2286:A:GLU:HB3	13	0.14
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	3	0.14
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	8	0.14
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	10	0.14
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	13	0.14
(1,438)	1:2279:A:SER:HB3	1:2301:A:GLU:HG2	11	0.14
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	20	0.14
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	4	0.14
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	5	0.14
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	18	0.14
(1,429)	1:2279:A:SER:H	1:2280:A:LYS:HA	18	0.14
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	2	0.14
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	20	0.14
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	5	0.14
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	16	0.14
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG21	19	0.14
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG22	19	0.14
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG23	19	0.14
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	7	0.14
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	7	0.14
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	7	0.14
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	5	0.14
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	8	0.14
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	9	0.14
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	13	0.14
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	14	0.14
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	12	0.14
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	18	0.14
(1,282)	1:2258:A:GLU:HA	1:2294:A:GLY:HA3	12	0.14
(1,279)	1:2258:A:GLU:HB2	1:2259:A:PHE:H	15	0.14
(1,279)	1:2258:A:GLU:HB2	1:2259:A:PHE:H	18	0.14
(1,271)	1:2257:A:ALA:H	1:2299:A:VAL:HB	9	0.14
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	3	0.14
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	4	0.14
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	13	0.14
(1,241)	1:2254:A:GLY:H	1:2300:A:GLN:HA	17	0.14
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	20	0.14
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	20	0.14
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	20	0.14
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	19	0.14
(1,108)	1:2246:A:PRO:HB3	1:2259:A:PHE:HA	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	3	0.14
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	8	0.14
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	14	0.14
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	20	0.14
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	2	0.14
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	13	0.14
(1,81)	1:2243:A:ALA:HB1	1:2248:A:LEU:HB2	3	0.14
(1,81)	1:2243:A:ALA:HB2	1:2248:A:LEU:HB2	3	0.14
(1,81)	1:2243:A:ALA:HB3	1:2248:A:LEU:HB2	3	0.14
(1,75)	1:2242:A:ARG:HG3	1:2263:A:THR:HB	18	0.14
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	5	0.14
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	6	0.14
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	8	0.14
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	18	0.14
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	17	0.14
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	17	0.14
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	17	0.14
(1,31)	1:2239:A:HIS:H	1:2241:A:VAL:HA	20	0.14
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	4	0.13
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	10	0.13
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA2	18	0.13
(1,1329)	3:748:C:LYS:H	1:2277:A:GLY:HA3	18	0.13
(1,1318)	1:2269:A:GLY:H	3:721:C:ILE:HB	17	0.13
(1,1316)	1:2238:A:ALA:H	2:989:B:LYS:HB2	7	0.13
(1,1267)	3:754:C:PHE:H	3:754:C:PHE:HB3	15	0.13
(1,1236)	3:749:C:GLU:H	3:749:C:GLU:HB2	18	0.13
(1,1236)	3:749:C:GLU:H	3:749:C:GLU:HB3	18	0.13
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB2	11	0.13
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB3	11	0.13
(1,1132)	3:733:C:GLU:H	3:734:C:ARG:HA	5	0.13
(1,1129)	3:733:C:GLU:H	3:729:C:LYS:HD2	16	0.13
(1,1129)	3:733:C:GLU:H	3:729:C:LYS:HD3	16	0.13
(1,1114)	3:731:C:GLU:HG3	3:733:C:GLU:H	5	0.13
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	4	0.13
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	8	0.13
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	20	0.13
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	4	0.13
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	6	0.13
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	7	0.13
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	18	0.13
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	10	0.13
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	18	0.13
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	8	0.13
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	12	0.13
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	16	0.13
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	6	0.13
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	8	0.13
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	13	0.13
(1,1049)	3:725:C:LYS:HB2	3:729:C:LYS:H	17	0.13
(1,984)	2:1005:B:GLU:H	2:1005:B:GLU:HG2	11	0.13
(1,984)	2:1005:B:GLU:H	2:1005:B:GLU:HG3	11	0.13
(1,902)	2:993:B:PHE:HD1	2:994:B:LYS:HD3	2	0.13
(1,902)	2:993:B:PHE:HD2	2:994:B:LYS:HD3	2	0.13
(1,866)	2:992:B:PHE:HD1	2:995:B:ARG:HA	1	0.13
(1,866)	2:992:B:PHE:HD2	2:995:B:ARG:HA	1	0.13
(1,866)	2:992:B:PHE:HD1	2:995:B:ARG:HA	2	0.13
(1,866)	2:992:B:PHE:HD2	2:995:B:ARG:HA	2	0.13
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	1	0.13
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	5	0.13
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	8	0.13
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	9	0.13
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	10	0.13
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	16	0.13
(1,744)	1:2318:A:ASP:HB3	1:2319:A:SER:HB2	20	0.13
(1,642)	1:2308:A:SER:HB2	1:2310:A:LYS:HE3	14	0.13
(1,642)	1:2308:A:SER:HB2	1:2310:A:LYS:HE3	17	0.13
(1,631)	1:2307:A:VAL:HB	1:2309:A:VAL:HA	17	0.13
(1,629)	1:2307:A:VAL:H	1:2308:A:SER:HA	2	0.13
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	12	0.13
(1,609)	1:2305:A:TYR:HD1	1:2325:A:VAL:HB	12	0.13
(1,603)	1:2305:A:TYR:HB2	1:2306:A:GLU:H	7	0.13
(1,598)	1:2305:A:TYR:H	1:2305:A:TYR:HB2	3	0.13
(1,598)	1:2305:A:TYR:H	1:2305:A:TYR:HB2	6	0.13
(1,598)	1:2305:A:TYR:H	1:2305:A:TYR:HB2	9	0.13
(1,598)	1:2305:A:TYR:H	1:2305:A:TYR:HB2	13	0.13
(1,598)	1:2305:A:TYR:H	1:2305:A:TYR:HB2	16	0.13
(1,598)	1:2305:A:TYR:H	1:2305:A:TYR:HB2	18	0.13
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	15	0.13
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	5	0.13
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	14	0.13
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG11	12	0.13
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG12	12	0.13
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG13	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	15	0.13
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	15	0.13
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	15	0.13
(1,556)	1:2299:A:VAL:HB	1:2301:A:GLU:H	2	0.13
(1,556)	1:2299:A:VAL:HB	1:2301:A:GLU:H	9	0.13
(1,556)	1:2299:A:VAL:HB	1:2301:A:GLU:H	20	0.13
(1,485)	1:2286:A:GLU:H	1:2286:A:GLU:HB3	14	0.13
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	6	0.13
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	14	0.13
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	16	0.13
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	18	0.13
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	19	0.13
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	1	0.13
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	9	0.13
(1,430)	1:2279:A:SER:H	1:2280:A:LYS:HB3	20	0.13
(1,429)	1:2279:A:SER:H	1:2280:A:LYS:HA	14	0.13
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	1	0.13
(1,418)	1:2277:A:GLY:HA2	1:2307:A:VAL:H	5	0.13
(1,414)	1:2277:A:GLY:HA2	1:2306:A:GLU:HA	5	0.13
(1,414)	1:2277:A:GLY:HA2	1:2306:A:GLU:HA	9	0.13
(1,414)	1:2277:A:GLY:HA2	1:2306:A:GLU:HA	20	0.13
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	3	0.13
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG21	10	0.13
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG22	10	0.13
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG23	10	0.13
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	1	0.13
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	6	0.13
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	13	0.13
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	15	0.13
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	17	0.13
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	18	0.13
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	19	0.13
(1,282)	1:2258:A:GLU:HA	1:2294:A:GLY:HA3	9	0.13
(1,282)	1:2258:A:GLU:HA	1:2294:A:GLY:HA3	14	0.13
(1,282)	1:2258:A:GLU:HA	1:2294:A:GLY:HA3	20	0.13
(1,279)	1:2258:A:GLU:HB2	1:2259:A:PHE:H	20	0.13
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	1	0.13
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	5	0.13
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	7	0.13
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	16	0.13
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	1	0.13
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	8	0.13
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	10	0.13
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	1	0.13
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	2	0.13
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	3	0.13
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	4	0.13
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	6	0.13
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	11	0.13
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	15	0.13
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	16	0.13
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	17	0.13
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	18	0.13
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	20	0.13
(1,241)	1:2254:A:GLY:H	1:2300:A:GLN:HA	2	0.13
(1,241)	1:2254:A:GLY:H	1:2300:A:GLN:HA	11	0.13
(1,241)	1:2254:A:GLY:H	1:2300:A:GLN:HA	19	0.13
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	5	0.13
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	5	0.13
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	5	0.13
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	18	0.13
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	18	0.13
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	18	0.13
(1,171)	1:2251:A:ALA:H	1:2324:A:PRO:HD3	3	0.13
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	5	0.13
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	6	0.13
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	7	0.13
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	19	0.13
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	20	0.13
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	3	0.13
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	16	0.13
(1,137)	1:2248:A:LEU:HD21	1:2307:A:VAL:HB	5	0.13
(1,137)	1:2248:A:LEU:HD22	1:2307:A:VAL:HB	5	0.13
(1,137)	1:2248:A:LEU:HD23	1:2307:A:VAL:HB	5	0.13
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	15	0.13
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	14	0.13
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	17	0.13
(1,81)	1:2243:A:ALA:HB1	1:2248:A:LEU:HB2	6	0.13
(1,81)	1:2243:A:ALA:HB2	1:2248:A:LEU:HB2	6	0.13
(1,81)	1:2243:A:ALA:HB3	1:2248:A:LEU:HB2	6	0.13
(1,57)	1:2241:A:VAL:HG11	1:2261:A:ILE:HA	14	0.13
(1,57)	1:2241:A:VAL:HG12	1:2261:A:ILE:HA	14	0.13
(1,57)	1:2241:A:VAL:HG13	1:2261:A:ILE:HA	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB1	16	0.13
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB2	16	0.13
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB3	16	0.13
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB1	16	0.13
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB2	16	0.13
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB3	16	0.13
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB1	16	0.13
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB2	16	0.13
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB3	16	0.13
(1,53)	1:2241:A:VAL:H	1:2242:A:ARG:HD3	16	0.13
(1,6)	1:2237:A:GLY:HA3	1:2240:A:LYS:HB3	9	0.13
(1,1324)	1:2275:A:VAL:H	3:751:C:THR:HA	10	0.12
(1,1318)	1:2269:A:GLY:H	3:721:C:ILE:HB	16	0.12
(1,1316)	1:2238:A:ALA:H	2:989:B:LYS:HB2	10	0.12
(1,1316)	1:2238:A:ALA:H	2:989:B:LYS:HB2	20	0.12
(1,1282)	3:757:C:ILE:H	3:757:C:ILE:HD11	10	0.12
(1,1282)	3:757:C:ILE:H	3:757:C:ILE:HD12	10	0.12
(1,1282)	3:757:C:ILE:H	3:757:C:ILE:HD13	10	0.12
(1,1232)	3:748:C:LYS:H	3:748:C:LYS:HD2	6	0.12
(1,1232)	3:748:C:LYS:H	3:748:C:LYS:HD3	6	0.12
(1,1232)	3:748:C:LYS:H	3:748:C:LYS:HD2	8	0.12
(1,1232)	3:748:C:LYS:H	3:748:C:LYS:HD3	8	0.12
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB2	9	0.12
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB3	9	0.12
(1,1127)	3:732:C:GLU:HA	3:735:C:ALA:H	11	0.12
(1,1116)	3:731:C:GLU:H	3:733:C:GLU:HB3	5	0.12
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	1	0.12
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	5	0.12
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	12	0.12
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	19	0.12
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	3	0.12
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	9	0.12
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	10	0.12
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	12	0.12
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	19	0.12
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	3	0.12
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	4	0.12
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	12	0.12
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	15	0.12
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	16	0.12
(1,1063)	3:727:C:PHE:H	3:725:C:LYS:HA	5	0.12
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	9	0.12
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	10	0.12
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	11	0.12
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	16	0.12
(1,1044)	3:725:C:LYS:H	3:725:C:LYS:HD2	8	0.12
(1,1044)	3:725:C:LYS:H	3:725:C:LYS:HD3	8	0.12
(1,1039)	3:725:C:LYS:H	3:725:C:LYS:HE2	16	0.12
(1,1039)	3:725:C:LYS:H	3:725:C:LYS:HE3	16	0.12
(1,970)	2:1003:B:ASP:H	2:1003:B:ASP:HB2	6	0.12
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD11	1	0.12
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD12	1	0.12
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD13	1	0.12
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD21	1	0.12
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD22	1	0.12
(1,964)	2:1002:B:GLU:H	2:1000:B:LEU:HD23	1	0.12
(1,931)	2:996:B:ASN:HD22	2:996:B:ASN:HA	13	0.12
(1,870)	2:992:B:PHE:HD1	2:994:B:LYS:HD3	7	0.12
(1,870)	2:992:B:PHE:HD2	2:994:B:LYS:HD3	7	0.12
(1,866)	2:992:B:PHE:HD1	2:995:B:ARG:HA	8	0.12
(1,866)	2:992:B:PHE:HD2	2:995:B:ARG:HA	8	0.12
(1,851)	2:991:B:GLY:HA3	2:992:B:PHE:HE1	3	0.12
(1,851)	2:991:B:GLY:HA3	2:992:B:PHE:HE2	3	0.12
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	4	0.12
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	6	0.12
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	12	0.12
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	13	0.12
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	14	0.12
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	18	0.12
(1,719)	1:2315:A:HIS:HE1	1:2319:A:SER:HA	2	0.12
(1,719)	1:2315:A:HIS:HE1	1:2319:A:SER:HA	13	0.12
(1,696)	1:2314:A:GLU:H	1:2314:A:GLU:HB3	20	0.12
(1,664)	1:2310:A:LYS:HB3	1:2314:A:GLU:H	5	0.12
(1,662)	1:2310:A:LYS:HE3	1:2311:A:PHE:HA	17	0.12
(1,662)	1:2310:A:LYS:HE3	1:2311:A:PHE:HA	20	0.12
(1,642)	1:2308:A:SER:HB2	1:2310:A:LYS:HE3	3	0.12
(1,642)	1:2308:A:SER:HB2	1:2310:A:LYS:HE3	19	0.12
(1,631)	1:2307:A:VAL:HB	1:2309:A:VAL:HA	15	0.12
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	3	0.12
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	16	0.12
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	18	0.12
(1,598)	1:2305:A:TYR:H	1:2305:A:TYR:HB2	15	0.12
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	16	0.12
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	18	0.12
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	6	0.12
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	8	0.12
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	8	0.12
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	8	0.12
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG21	16	0.12
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG22	16	0.12
(1,583)	1:2303:A:GLY:H	1:2325:A:VAL:HG23	16	0.12
(1,582)	1:2303:A:GLY:H	1:2325:A:VAL:HB	12	0.12
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	11	0.12
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	17	0.12
(1,566)	1:2300:A:GLN:HB2	1:2301:A:GLU:H	12	0.12
(1,557)	1:2299:A:VAL:HG21	1:2301:A:GLU:HB2	5	0.12
(1,557)	1:2299:A:VAL:HG22	1:2301:A:GLU:HB2	5	0.12
(1,557)	1:2299:A:VAL:HG23	1:2301:A:GLU:HB2	5	0.12
(1,557)	1:2299:A:VAL:HG21	1:2301:A:GLU:HB2	6	0.12
(1,557)	1:2299:A:VAL:HG22	1:2301:A:GLU:HB2	6	0.12
(1,557)	1:2299:A:VAL:HG23	1:2301:A:GLU:HB2	6	0.12
(1,557)	1:2299:A:VAL:HG21	1:2301:A:GLU:HB2	9	0.12
(1,557)	1:2299:A:VAL:HG22	1:2301:A:GLU:HB2	9	0.12
(1,557)	1:2299:A:VAL:HG23	1:2301:A:GLU:HB2	9	0.12
(1,528)	1:2296:A:ALA:HA	1:2307:A:VAL:HG11	9	0.12
(1,528)	1:2296:A:ALA:HA	1:2307:A:VAL:HG12	9	0.12
(1,528)	1:2296:A:ALA:HA	1:2307:A:VAL:HG13	9	0.12
(1,485)	1:2286:A:GLU:H	1:2286:A:GLU:HB3	3	0.12
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	1	0.12
(1,438)	1:2279:A:SER:HB3	1:2301:A:GLU:HG2	13	0.12
(1,437)	1:2279:A:SER:HB3	1:2301:A:GLU:HG3	13	0.12
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	3	0.12
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	18	0.12
(1,428)	1:2279:A:SER:HB2	1:2280:A:LYS:H	6	0.12
(1,426)	1:2279:A:SER:HB3	1:2280:A:LYS:H	1	0.12
(1,422)	1:2278:A:PRO:HB2	1:2305:A:TYR:HA	10	0.12
(1,422)	1:2278:A:PRO:HB2	1:2305:A:TYR:HA	11	0.12
(1,414)	1:2277:A:GLY:HA2	1:2306:A:GLU:HA	12	0.12
(1,414)	1:2277:A:GLY:HA2	1:2306:A:GLU:HA	18	0.12
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	18	0.12
(1,407)	1:2276:A:GLU:HB2	1:2277:A:GLY:H	8	0.12
(1,404)	1:2276:A:GLU:HG3	1:2277:A:GLY:H	15	0.12
(1,391)	1:2275:A:VAL:HG21	1:2277:A:GLY:H	17	0.12
(1,391)	1:2275:A:VAL:HG22	1:2277:A:GLY:H	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,391)	1:2275:A:VAL:HG23	1:2277:A:GLY:H	17	0.12
(1,386)	1:2275:A:VAL:HG21	1:2276:A:GLU:H	13	0.12
(1,386)	1:2275:A:VAL:HG22	1:2276:A:GLU:H	13	0.12
(1,386)	1:2275:A:VAL:HG23	1:2276:A:GLU:H	13	0.12
(1,299)	1:2261:A:ILE:HA	1:2263:A:THR:H	8	0.12
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	2	0.12
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	5	0.12
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	19	0.12
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	16	0.12
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	18	0.12
(1,282)	1:2258:A:GLU:HA	1:2294:A:GLY:HA3	5	0.12
(1,282)	1:2258:A:GLU:HA	1:2294:A:GLY:HA3	8	0.12
(1,266)	1:2257:A:ALA:HB1	1:2258:A:GLU:H	4	0.12
(1,266)	1:2257:A:ALA:HB2	1:2258:A:GLU:H	4	0.12
(1,266)	1:2257:A:ALA:HB3	1:2258:A:GLU:H	4	0.12
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	15	0.12
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	3	0.12
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	4	0.12
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	6	0.12
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	12	0.12
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	15	0.12
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	5	0.12
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	7	0.12
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	8	0.12
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	9	0.12
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	14	0.12
(1,252)	1:2255:A:VAL:HA	1:2256:A:PRO:HB2	19	0.12
(1,241)	1:2254:A:GLY:H	1:2300:A:GLN:HA	7	0.12
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG11	20	0.12
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG12	20	0.12
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG13	20	0.12
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	6	0.12
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	6	0.12
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	6	0.12
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	1	0.12
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	7	0.12
(1,137)	1:2248:A:LEU:HD21	1:2307:A:VAL:HB	1	0.12
(1,137)	1:2248:A:LEU:HD22	1:2307:A:VAL:HB	1	0.12
(1,137)	1:2248:A:LEU:HD23	1:2307:A:VAL:HB	1	0.12
(1,108)	1:2246:A:PRO:HB3	1:2259:A:PHE:HA	14	0.12
(1,108)	1:2246:A:PRO:HB3	1:2259:A:PHE:HA	18	0.12
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	9	0.12
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	10	0.12
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	13	0.12
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB1	2	0.12
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB2	2	0.12
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB3	2	0.12
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB1	2	0.12
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB2	2	0.12
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB3	2	0.12
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB1	2	0.12
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB2	2	0.12
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB3	2	0.12
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB1	15	0.12
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB2	15	0.12
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB3	15	0.12
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB1	15	0.12
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB2	15	0.12
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB3	15	0.12
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB1	15	0.12
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB2	15	0.12
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB3	15	0.12
(1,9)	1:2238:A:ALA:H	1:2239:A:HIS:HA	8	0.12
(1,6)	1:2237:A:GLY:HA3	1:2240:A:LYS:HB3	3	0.12
(1,6)	1:2237:A:GLY:HA3	1:2240:A:LYS:HB3	13	0.12
(1,1334)	3:751:C:THR:H	1:2272:A:ALA:H	11	0.11
(1,1318)	1:2269:A:GLY:H	3:721:C:ILE:HB	3	0.11
(1,1318)	1:2269:A:GLY:H	3:721:C:ILE:HB	8	0.11
(1,1318)	1:2269:A:GLY:H	3:721:C:ILE:HB	20	0.11
(1,1266)	3:754:C:PHE:H	3:754:C:PHE:HB2	3	0.11
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB2	2	0.11
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB3	2	0.11
(1,1208)	3:744:C:ASN:H	3:744:C:ASN:HB2	17	0.11
(1,1191)	3:743:C:ASN:H	3:743:C:ASN:HB2	14	0.11
(1,1185)	3:741:C:THR:H	3:741:C:THR:HA	9	0.11
(1,1137)	3:733:C:GLU:HA	3:735:C:ALA:H	1	0.11
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB1	20	0.11
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB2	20	0.11
(1,1128)	3:732:C:GLU:H	3:735:C:ALA:HB3	20	0.11
(1,1124)	3:732:C:GLU:HB3	3:733:C:GLU:H	9	0.11
(1,1121)	3:732:C:GLU:H	3:732:C:GLU:HB3	16	0.11
(1,1114)	3:731:C:GLU:HG3	3:733:C:GLU:H	11	0.11
(1,1114)	3:731:C:GLU:HG3	3:733:C:GLU:H	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1104)	3:730:C:PHE:HA	3:732:C:GLU:H	14	0.11
(1,1103)	3:730:C:PHE:HA	3:731:C:GLU:H	2	0.11
(1,1103)	3:730:C:PHE:HA	3:731:C:GLU:H	16	0.11
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	2	0.11
(1,1099)	3:730:C:PHE:H	3:730:C:PHE:HA	16	0.11
(1,1089)	3:729:C:LYS:HA	3:731:C:GLU:H	20	0.11
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	1	0.11
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	8	0.11
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	11	0.11
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	19	0.11
(1,1061)	3:727:C:PHE:H	3:726:C:GLU:HG2	19	0.11
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	5	0.11
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	17	0.11
(1,1044)	3:725:C:LYS:H	3:725:C:LYS:HD2	14	0.11
(1,1044)	3:725:C:LYS:H	3:725:C:LYS:HD3	14	0.11
(1,997)	2:1008:B:GLU:H	2:1008:B:GLU:HG2	7	0.11
(1,997)	2:1008:B:GLU:H	2:1008:B:GLU:HG3	7	0.11
(1,997)	2:1008:B:GLU:H	2:1008:B:GLU:HG2	12	0.11
(1,997)	2:1008:B:GLU:H	2:1008:B:GLU:HG3	12	0.11
(1,992)	2:1007:B:GLY:HA3	2:1006:B:GLU:H	13	0.11
(1,987)	2:1006:B:GLU:H	2:1004:B:ASP:HA	7	0.11
(1,947)	2:997:B:ARG:H	2:997:B:ARG:HB3	1	0.11
(1,938)	2:996:B:ASN:HD22	2:996:B:ASN:HB3	19	0.11
(1,866)	2:992:B:PHE:HD1	2:995:B:ARG:HA	9	0.11
(1,866)	2:992:B:PHE:HD2	2:995:B:ARG:HA	9	0.11
(1,851)	2:991:B:GLY:HA3	2:992:B:PHE:HE1	16	0.11
(1,851)	2:991:B:GLY:HA3	2:992:B:PHE:HE2	16	0.11
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	3	0.11
(1,840)	2:990:B:VAL:H	2:990:B:VAL:HB	19	0.11
(1,836)	2:990:B:VAL:H	2:990:B:VAL:HA	2	0.11
(1,816)	2:988:B:TRP:HZ2	2:988:B:TRP:HB2	9	0.11
(1,816)	2:988:B:TRP:HZ2	2:988:B:TRP:HB2	16	0.11
(1,813)	1:2329:A:SER:HB3	1:2330:A:GLY:HA3	2	0.11
(1,813)	1:2329:A:SER:HB3	1:2330:A:GLY:HA3	5	0.11
(1,813)	1:2329:A:SER:HB3	1:2330:A:GLY:HA3	12	0.11
(1,766)	1:2321:A:PHE:HD2	1:2322:A:VAL:H	11	0.11
(1,712)	1:2315:A:HIS:HA	1:2315:A:HIS:HD2	9	0.11
(1,712)	1:2315:A:HIS:HA	1:2315:A:HIS:HD2	11	0.11
(1,709)	1:2314:A:GLU:HG2	1:2316:A:ILE:HG21	2	0.11
(1,709)	1:2314:A:GLU:HG2	1:2316:A:ILE:HG22	2	0.11
(1,709)	1:2314:A:GLU:HG2	1:2316:A:ILE:HG23	2	0.11
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG21	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG22	2	0.11
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG23	2	0.11
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG21	6	0.11
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG22	6	0.11
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG23	6	0.11
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG21	13	0.11
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG22	13	0.11
(1,708)	1:2314:A:GLU:H	1:2316:A:ILE:HG23	13	0.11
(1,704)	1:2314:A:GLU:HG3	1:2315:A:HIS:H	16	0.11
(1,699)	1:2314:A:GLU:H	1:2314:A:GLU:HG2	2	0.11
(1,696)	1:2314:A:GLU:H	1:2314:A:GLU:HB3	12	0.11
(1,696)	1:2314:A:GLU:H	1:2314:A:GLU:HB3	17	0.11
(1,667)	1:2310:A:LYS:HE2	1:2315:A:HIS:H	20	0.11
(1,657)	1:2309:A:VAL:HG21	1:2320:A:PRO:HG3	13	0.11
(1,657)	1:2309:A:VAL:HG22	1:2320:A:PRO:HG3	13	0.11
(1,657)	1:2309:A:VAL:HG23	1:2320:A:PRO:HG3	13	0.11
(1,638)	1:2308:A:SER:HA	1:2309:A:VAL:HG11	7	0.11
(1,638)	1:2308:A:SER:HA	1:2309:A:VAL:HG12	7	0.11
(1,638)	1:2308:A:SER:HA	1:2309:A:VAL:HG13	7	0.11
(1,629)	1:2307:A:VAL:H	1:2308:A:SER:HA	20	0.11
(1,626)	1:2307:A:VAL:H	1:2307:A:VAL:HB	8	0.11
(1,609)	1:2305:A:TYR:HD1	1:2325:A:VAL:HB	20	0.11
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG11	11	0.11
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG12	11	0.11
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG13	11	0.11
(1,602)	1:2305:A:TYR:H	1:2306:A:GLU:HB3	2	0.11
(1,599)	1:2305:A:TYR:H	1:2305:A:TYR:HD1	13	0.11
(1,597)	1:2305:A:TYR:H	1:2305:A:TYR:HB3	10	0.11
(1,597)	1:2305:A:TYR:H	1:2305:A:TYR:HB3	14	0.11
(1,594)	1:2304:A:ASP:HB2	1:2325:A:VAL:H	6	0.11
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	1	0.11
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	18	0.11
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG11	13	0.11
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG12	13	0.11
(1,584)	1:2303:A:GLY:H	1:2325:A:VAL:HG13	13	0.11
(1,582)	1:2303:A:GLY:H	1:2325:A:VAL:HB	14	0.11
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	15	0.11
(1,578)	1:2303:A:GLY:H	1:2305:A:TYR:HD2	20	0.11
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	2	0.11
(1,569)	1:2300:A:GLN:HA	1:2302:A:PRO:HD3	19	0.11
(1,566)	1:2300:A:GLN:HB2	1:2301:A:GLU:H	8	0.11
(1,557)	1:2299:A:VAL:HG21	1:2301:A:GLU:HB2	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,557)	1:2299:A:VAL:HG22	1:2301:A:GLU:HB2	4	0.11
(1,557)	1:2299:A:VAL:HG23	1:2301:A:GLU:HB2	4	0.11
(1,557)	1:2299:A:VAL:HG21	1:2301:A:GLU:HB2	16	0.11
(1,557)	1:2299:A:VAL:HG22	1:2301:A:GLU:HB2	16	0.11
(1,557)	1:2299:A:VAL:HG23	1:2301:A:GLU:HB2	16	0.11
(1,557)	1:2299:A:VAL:HG21	1:2301:A:GLU:HB2	18	0.11
(1,557)	1:2299:A:VAL:HG22	1:2301:A:GLU:HB2	18	0.11
(1,557)	1:2299:A:VAL:HG23	1:2301:A:GLU:HB2	18	0.11
(1,553)	1:2299:A:VAL:HA	1:2301:A:GLU:H	7	0.11
(1,485)	1:2286:A:GLU:H	1:2286:A:GLU:HB3	2	0.11
(1,460)	1:2282:A:GLU:H	1:2282:A:GLU:HB3	6	0.11
(1,460)	1:2282:A:GLU:H	1:2282:A:GLU:HB3	10	0.11
(1,460)	1:2282:A:GLU:H	1:2282:A:GLU:HB3	15	0.11
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	15	0.11
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	1	0.11
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	6	0.11
(1,433)	1:2279:A:SER:HA	1:2301:A:GLU:H	13	0.11
(1,428)	1:2279:A:SER:HB2	1:2280:A:LYS:H	13	0.11
(1,426)	1:2279:A:SER:HB3	1:2280:A:LYS:H	15	0.11
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	2	0.11
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	5	0.11
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	19	0.11
(1,399)	1:2275:A:VAL:HA	1:2308:A:SER:H	8	0.11
(1,399)	1:2275:A:VAL:HA	1:2308:A:SER:H	19	0.11
(1,386)	1:2275:A:VAL:HG21	1:2276:A:GLU:H	9	0.11
(1,386)	1:2275:A:VAL:HG22	1:2276:A:GLU:H	9	0.11
(1,386)	1:2275:A:VAL:HG23	1:2276:A:GLU:H	9	0.11
(1,386)	1:2275:A:VAL:HG21	1:2276:A:GLU:H	16	0.11
(1,386)	1:2275:A:VAL:HG22	1:2276:A:GLU:H	16	0.11
(1,386)	1:2275:A:VAL:HG23	1:2276:A:GLU:H	16	0.11
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG21	4	0.11
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG22	4	0.11
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG23	4	0.11
(1,342)	1:2270:A:GLY:HA3	1:2271:A:LEU:HG	20	0.11
(1,299)	1:2261:A:ILE:HA	1:2263:A:THR:H	14	0.11
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	12	0.11
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	20	0.11
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	4	0.11
(1,286)	1:2259:A:PHE:HB3	1:2260:A:SER:H	7	0.11
(1,283)	1:2258:A:GLU:HA	1:2297:A:TYR:H	6	0.11
(1,282)	1:2258:A:GLU:HA	1:2294:A:GLY:HA3	13	0.11
(1,282)	1:2258:A:GLU:HA	1:2294:A:GLY:HA3	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,279)	1:2258:A:GLU:HB2	1:2259:A:PHE:H	17	0.11
(1,269)	1:2257:A:ALA:H	1:2298:A:VAL:HB	4	0.11
(1,269)	1:2257:A:ALA:H	1:2298:A:VAL:HB	5	0.11
(1,269)	1:2257:A:ALA:H	1:2298:A:VAL:HB	10	0.11
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	11	0.11
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	17	0.11
(1,259)	1:2256:A:PRO:HD3	1:2298:A:VAL:HB	19	0.11
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	9	0.11
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	13	0.11
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	14	0.11
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	18	0.11
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	20	0.11
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG11	3	0.11
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG12	3	0.11
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG13	3	0.11
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG11	4	0.11
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG12	4	0.11
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG13	4	0.11
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG11	6	0.11
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG12	6	0.11
(1,236)	1:2254:A:GLY:HA3	1:2298:A:VAL:HG13	6	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	1	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	1	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	1	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	3	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	3	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	3	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	4	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	4	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	4	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG21	14	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG22	14	0.11
(1,226)	1:2253:A:ALA:H	1:2325:A:VAL:HG23	14	0.11
(1,173)	1:2251:A:ALA:H	1:2325:A:VAL:HG21	11	0.11
(1,173)	1:2251:A:ALA:H	1:2325:A:VAL:HG22	11	0.11
(1,173)	1:2251:A:ALA:H	1:2325:A:VAL:HG23	11	0.11
(1,170)	1:2251:A:ALA:H	1:2324:A:PRO:HA	15	0.11
(1,168)	1:2251:A:ALA:H	1:2323:A:VAL:HG21	1	0.11
(1,168)	1:2251:A:ALA:H	1:2323:A:VAL:HG22	1	0.11
(1,168)	1:2251:A:ALA:H	1:2323:A:VAL:HG23	1	0.11
(1,168)	1:2251:A:ALA:H	1:2323:A:VAL:HG21	4	0.11
(1,168)	1:2251:A:ALA:H	1:2323:A:VAL:HG22	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,168)	1:2251:A:ALA:H	1:2323:A:VAL:HG23	4	0.11
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	1	0.11
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	9	0.11
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	14	0.11
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	16	0.11
(1,161)	1:2250:A:ARG:HB3	1:2325:A:VAL:H	17	0.11
(1,152)	1:2250:A:ARG:HG3	1:2251:A:ALA:H	13	0.11
(1,152)	1:2250:A:ARG:HG3	1:2251:A:ALA:H	15	0.11
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	4	0.11
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	17	0.11
(1,137)	1:2248:A:LEU:HD21	1:2307:A:VAL:HB	20	0.11
(1,137)	1:2248:A:LEU:HD22	1:2307:A:VAL:HB	20	0.11
(1,137)	1:2248:A:LEU:HD23	1:2307:A:VAL:HB	20	0.11
(1,108)	1:2246:A:PRO:HB3	1:2259:A:PHE:HA	8	0.11
(1,99)	1:2245:A:GLY:HA2	1:2258:A:GLU:HB3	2	0.11
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	1	0.11
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	7	0.11
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	9	0.11
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	17	0.11
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	18	0.11
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	19	0.11
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	18	0.11
(1,92)	1:2244:A:GLY:HA2	1:2261:A:ILE:HG13	20	0.11
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	3	0.11
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	4	0.11
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	12	0.11
(1,9)	1:2238:A:ALA:H	1:2239:A:HIS:HA	20	0.11
(1,1314)	1:2273:A:ILE:H	2:997:B:ARG:HA	14	0.1
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB2	18	0.1
(1,1229)	3:748:C:LYS:H	3:748:C:LYS:HB3	18	0.1
(1,1124)	3:732:C:GLU:HB3	3:733:C:GLU:H	1	0.1
(1,1124)	3:732:C:GLU:HB3	3:733:C:GLU:H	10	0.1
(1,1121)	3:732:C:GLU:H	3:732:C:GLU:HB3	2	0.1
(1,1103)	3:730:C:PHE:HA	3:731:C:GLU:H	1	0.1
(1,1103)	3:730:C:PHE:HA	3:731:C:GLU:H	13	0.1
(1,1103)	3:730:C:PHE:HA	3:731:C:GLU:H	17	0.1
(1,1103)	3:730:C:PHE:HA	3:731:C:GLU:H	20	0.1
(1,1098)	3:730:C:PHE:H	3:729:C:LYS:HD2	11	0.1
(1,1098)	3:730:C:PHE:H	3:729:C:LYS:HD3	11	0.1
(1,1089)	3:729:C:LYS:HA	3:731:C:GLU:H	1	0.1
(1,1089)	3:729:C:LYS:HA	3:731:C:GLU:H	17	0.1
(1,1085)	3:729:C:LYS:H	3:729:C:LYS:HG2	17	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1085)	3:729:C:LYS:H	3:729:C:LYS:HG3	17	0.1
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	2	0.1
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	5	0.1
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	6	0.1
(1,1079)	3:728:C:ALA:H	3:728:C:ALA:HA	20	0.1
(1,1058)	3:726:C:GLU:HA	3:727:C:PHE:H	9	0.1
(1,1058)	3:726:C:GLU:HA	3:727:C:PHE:H	18	0.1
(1,1056)	3:726:C:GLU:HB3	3:727:C:PHE:H	4	0.1
(1,996)	2:1008:B:GLU:H	2:1006:B:GLU:HA	6	0.1
(1,931)	2:996:B:ASN:HD22	2:996:B:ASN:HA	12	0.1
(1,931)	2:996:B:ASN:HD22	2:996:B:ASN:HA	14	0.1
(1,866)	2:992:B:PHE:HD1	2:995:B:ARG:HA	4	0.1
(1,866)	2:992:B:PHE:HD2	2:995:B:ARG:HA	4	0.1
(1,816)	2:988:B:TRP:HZ2	2:988:B:TRP:HB2	13	0.1
(1,793)	1:2325:A:VAL:HG21	1:2326:A:ALA:H	17	0.1
(1,793)	1:2325:A:VAL:HG22	1:2326:A:ALA:H	17	0.1
(1,793)	1:2325:A:VAL:HG23	1:2326:A:ALA:H	17	0.1
(1,720)	1:2315:A:HIS:HB3	1:2319:A:SER:H	6	0.1
(1,696)	1:2314:A:GLU:H	1:2314:A:GLU:HB3	8	0.1
(1,696)	1:2314:A:GLU:H	1:2314:A:GLU:HB3	10	0.1
(1,696)	1:2314:A:GLU:H	1:2314:A:GLU:HB3	18	0.1
(1,696)	1:2314:A:GLU:H	1:2314:A:GLU:HB3	19	0.1
(1,629)	1:2307:A:VAL:H	1:2308:A:SER:HA	1	0.1
(1,629)	1:2307:A:VAL:H	1:2308:A:SER:HA	16	0.1
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG11	19	0.1
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG12	19	0.1
(1,607)	1:2305:A:TYR:H	1:2325:A:VAL:HG13	19	0.1
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	4	0.1
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	9	0.1
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	15	0.1
(1,592)	1:2304:A:ASP:HB3	1:2305:A:TYR:H	16	0.1
(1,580)	1:2303:A:GLY:H	1:2325:A:VAL:H	14	0.1
(1,579)	1:2303:A:GLY:HA2	1:2324:A:PRO:HB3	13	0.1
(1,566)	1:2300:A:GLN:HB2	1:2301:A:GLU:H	18	0.1
(1,557)	1:2299:A:VAL:HG21	1:2301:A:GLU:HB2	15	0.1
(1,557)	1:2299:A:VAL:HG22	1:2301:A:GLU:HB2	15	0.1
(1,557)	1:2299:A:VAL:HG23	1:2301:A:GLU:HB2	15	0.1
(1,553)	1:2299:A:VAL:HA	1:2301:A:GLU:H	11	0.1
(1,528)	1:2296:A:ALA:HA	1:2307:A:VAL:HG11	17	0.1
(1,528)	1:2296:A:ALA:HA	1:2307:A:VAL:HG12	17	0.1
(1,528)	1:2296:A:ALA:HA	1:2307:A:VAL:HG13	17	0.1
(1,512)	1:2289:A:LYS:HG2	1:2290:A:ASP:HB2	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,460)	1:2282:A:GLU:H	1:2282:A:GLU:HB3	2	0.1
(1,460)	1:2282:A:GLU:H	1:2282:A:GLU:HB3	3	0.1
(1,460)	1:2282:A:GLU:H	1:2282:A:GLU:HB3	8	0.1
(1,460)	1:2282:A:GLU:H	1:2282:A:GLU:HB3	12	0.1
(1,460)	1:2282:A:GLU:H	1:2282:A:GLU:HB3	14	0.1
(1,460)	1:2282:A:GLU:H	1:2282:A:GLU:HB3	16	0.1
(1,441)	1:2280:A:LYS:H	1:2280:A:LYS:HG3	5	0.1
(1,426)	1:2279:A:SER:HB3	1:2280:A:LYS:H	19	0.1
(1,409)	1:2276:A:GLU:HB2	1:2308:A:SER:HA	12	0.1
(1,399)	1:2275:A:VAL:HA	1:2308:A:SER:H	14	0.1
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG21	17	0.1
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG22	17	0.1
(1,366)	1:2273:A:ILE:HG13	1:2307:A:VAL:HG23	17	0.1
(1,359)	1:2273:A:ILE:HD11	1:2274:A:ALA:H	13	0.1
(1,359)	1:2273:A:ILE:HD12	1:2274:A:ALA:H	13	0.1
(1,359)	1:2273:A:ILE:HD13	1:2274:A:ALA:H	13	0.1
(1,299)	1:2261:A:ILE:HA	1:2263:A:THR:H	1	0.1
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	7	0.1
(1,294)	1:2260:A:SER:HB3	1:2294:A:GLY:HA3	14	0.1
(1,279)	1:2258:A:GLU:HB2	1:2259:A:PHE:H	19	0.1
(1,269)	1:2257:A:ALA:H	1:2298:A:VAL:HB	1	0.1
(1,254)	1:2255:A:VAL:H	1:2299:A:VAL:HA	16	0.1
(1,152)	1:2250:A:ARG:HG3	1:2251:A:ALA:H	12	0.1
(1,147)	1:2249:A:GLU:HB3	1:2323:A:VAL:HA	11	0.1
(1,137)	1:2248:A:LEU:HD21	1:2307:A:VAL:HB	12	0.1
(1,137)	1:2248:A:LEU:HD22	1:2307:A:VAL:HB	12	0.1
(1,137)	1:2248:A:LEU:HD23	1:2307:A:VAL:HB	12	0.1
(1,114)	1:2247:A:GLY:H	1:2249:A:GLU:HG2	8	0.1
(1,114)	1:2247:A:GLY:H	1:2249:A:GLU:HG2	14	0.1
(1,95)	1:2245:A:GLY:HA2	1:2246:A:PRO:HA	16	0.1
(1,90)	1:2244:A:GLY:HA2	1:2260:A:SER:H	3	0.1
(1,75)	1:2242:A:ARG:HG3	1:2263:A:THR:HB	10	0.1
(1,74)	1:2242:A:ARG:HG2	1:2262:A:TRP:HB2	16	0.1
(1,70)	1:2242:A:ARG:HG3	1:2260:A:SER:HB2	11	0.1
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB1	12	0.1
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB2	12	0.1
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB3	12	0.1
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB1	12	0.1
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB2	12	0.1
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB3	12	0.1
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB1	12	0.1
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB2	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB3	12	0.1
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB1	13	0.1
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB2	13	0.1
(1,56)	1:2241:A:VAL:HG21	1:2243:A:ALA:HB3	13	0.1
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB1	13	0.1
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB2	13	0.1
(1,56)	1:2241:A:VAL:HG22	1:2243:A:ALA:HB3	13	0.1
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB1	13	0.1
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB2	13	0.1
(1,56)	1:2241:A:VAL:HG23	1:2243:A:ALA:HB3	13	0.1
(1,38)	1:2240:A:LYS:H	1:2241:A:VAL:HG21	15	0.1
(1,38)	1:2240:A:LYS:H	1:2241:A:VAL:HG22	15	0.1
(1,38)	1:2240:A:LYS:H	1:2241:A:VAL:HG23	15	0.1
(1,25)	1:2239:A:HIS:H	1:2239:A:HIS:HB3	11	0.1
(1,25)	1:2239:A:HIS:H	1:2239:A:HIS:HB3	12	0.1
(1,9)	1:2238:A:ALA:H	1:2239:A:HIS:HA	2	0.1

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

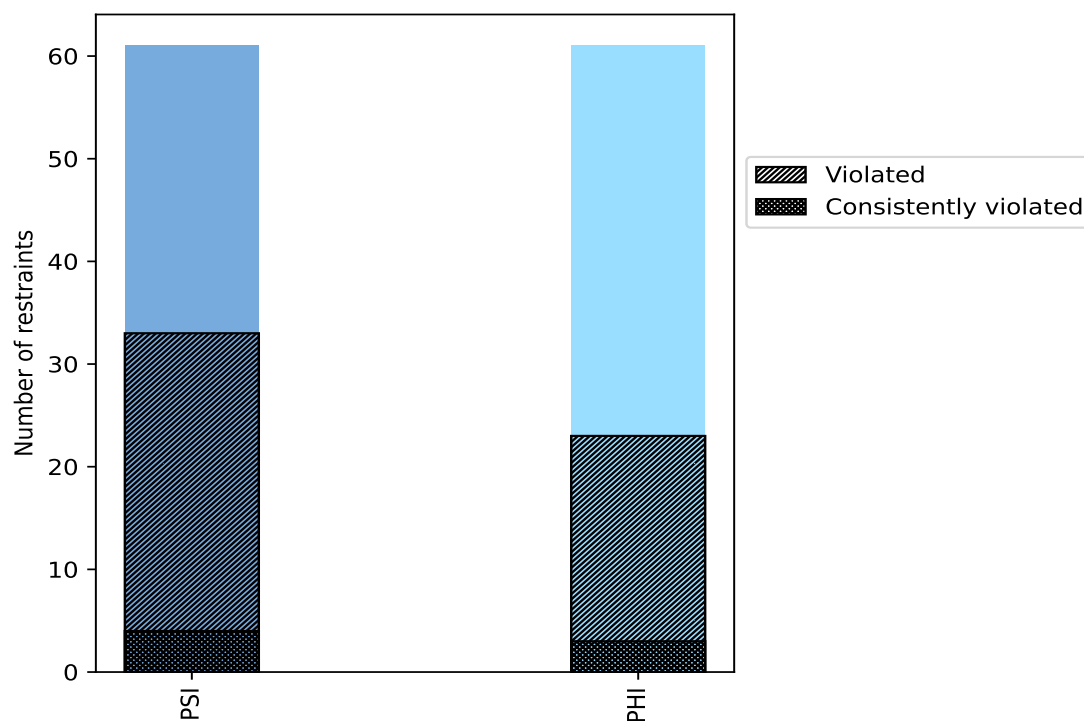
10.1 Summary of dihedral-angle violations [i](#)

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
PSI	61	50.0	33	54.1	27.0	4	6.6	3.3
PHI	61	50.0	23	37.7	18.9	3	4.9	2.5
Total	122	100.0	56	45.9	45.9	7	5.7	5.7

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](#)



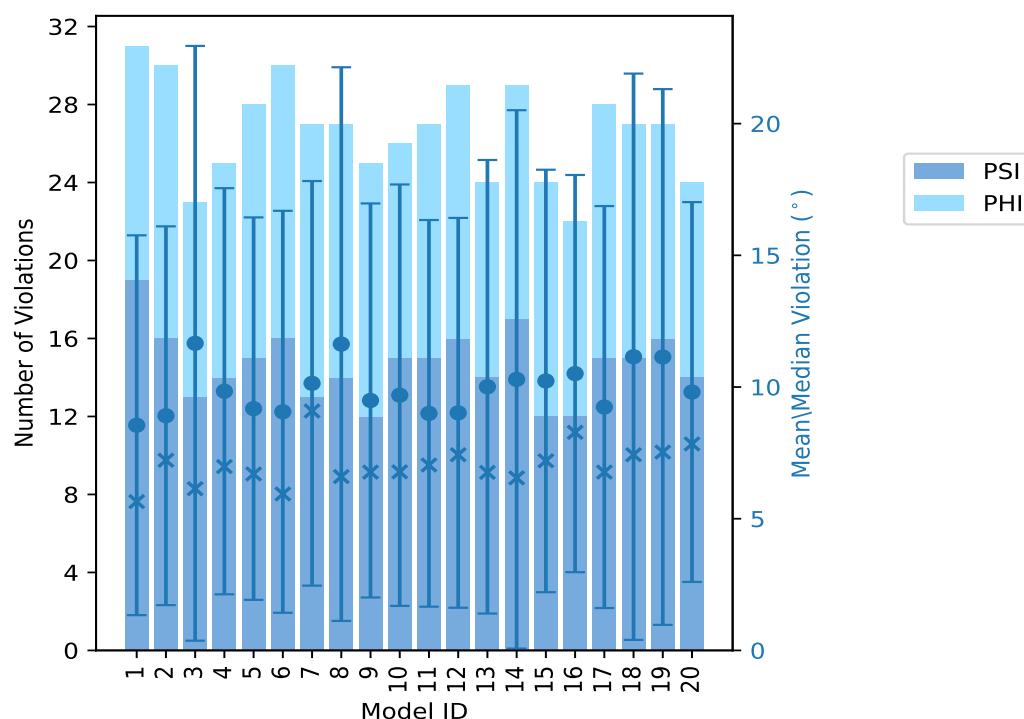
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	19	12	31	8.55	27.71	7.21	5.65
2	16	14	30	8.91	27.48	7.19	7.22
3	13	10	23	11.66	46.52	11.29	6.14
4	14	11	25	9.84	27.75	7.71	6.98
5	15	13	28	9.18	27.67	7.26	6.7
6	16	14	30	9.06	27.8	7.63	5.94
7	13	14	27	10.14	27.51	7.68	9.09
8	14	13	27	11.63	46.56	10.51	6.6
9	12	13	25	9.49	27.88	7.48	6.77
10	15	11	26	9.69	28.41	8.0	6.78
11	15	12	27	9.0	27.19	7.34	7.04
12	16	13	29	9.02	27.17	7.4	7.43
13	14	10	24	10.01	27.91	8.61	6.76
14	17	12	29	10.29	46.1	10.22	6.55
15	12	12	24	10.23	28.12	8.02	7.2
16	12	10	22	10.51	27.87	7.54	8.28
17	15	13	28	9.24	27.37	7.63	6.77
18	15	12	27	11.15	45.43	10.75	7.43
19	16	11	27	11.14	47.26	10.17	7.53
20	14	10	24	9.81	27.36	7.21	7.84

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

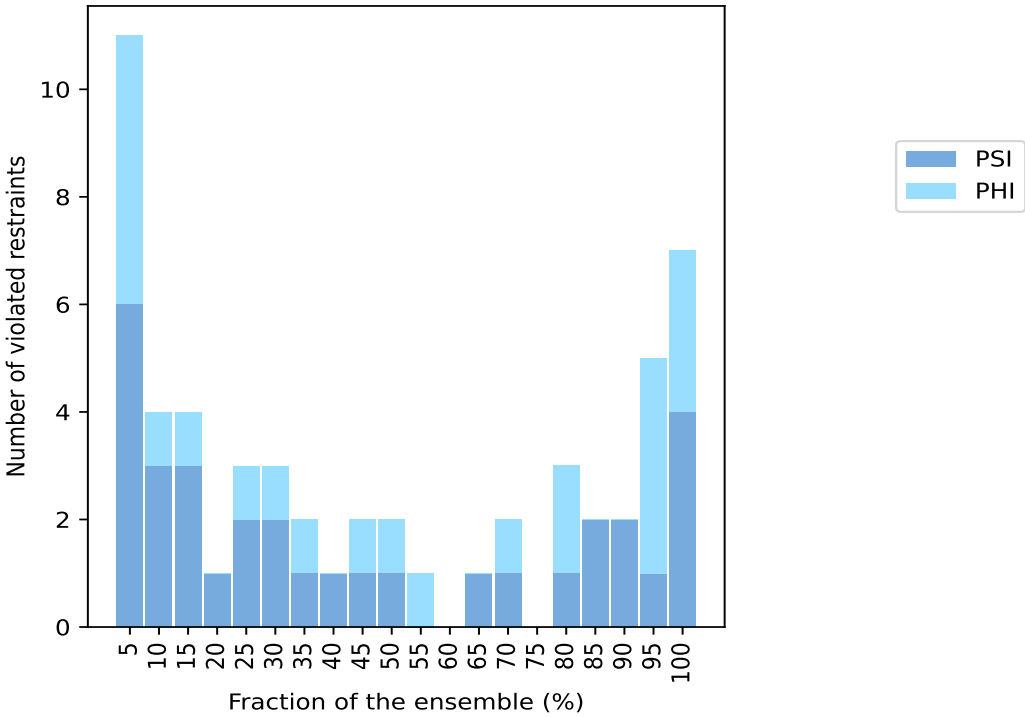
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Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count ¹	%
0	0	0	12	60.0
1	0	1	13	65.0
1	1	2	14	70.0
0	0	0	15	75.0
1	2	3	16	80.0
2	0	2	17	85.0
2	0	2	18	90.0
1	4	5	19	95.0
4	3	7	20	100.0

¹ Number of models with violations

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

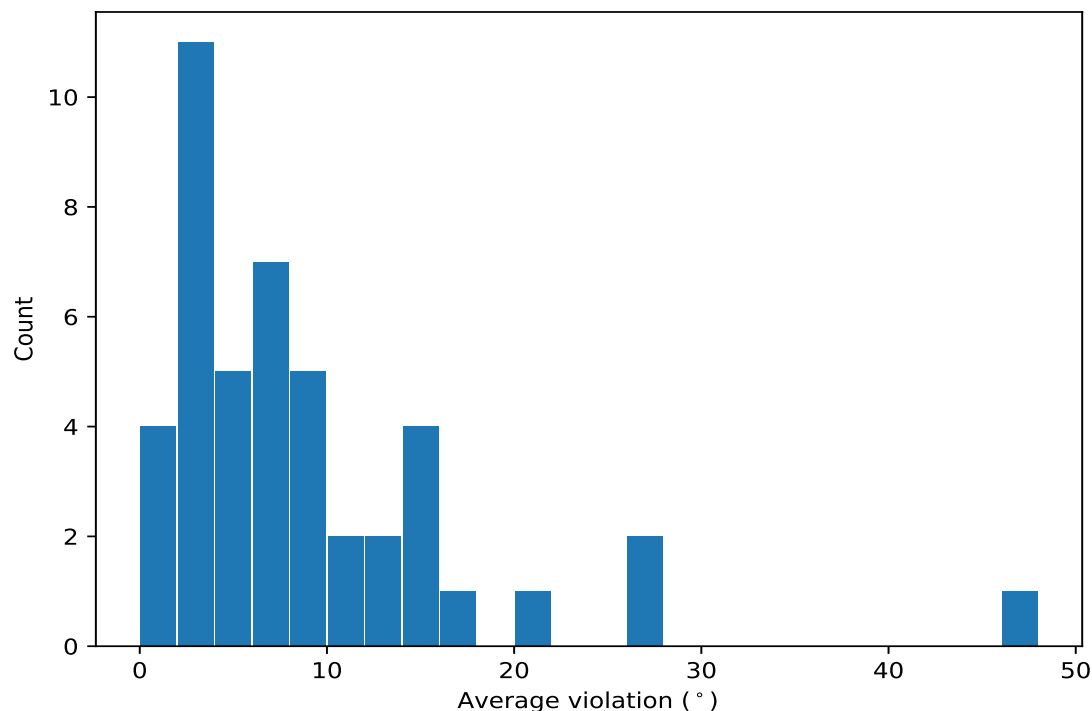


10.4 Most violated dihedral-angle restraints in the ensemble ⓘ

10.4.1 Histogram : Distribution of mean dihedral-angle violations ⓘ

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

in the ensemble



10.4.2 Table: Most violated dihedral-angle restraints ⓘ

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Med ³
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	20	27.65	0.41	27.5
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	20	26.84	0.66	27.0
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	20	21.77	4.9	21.8
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	20	15.25	3.41	16.4
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	20	14.69	3.41	14.5
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	20	6.14	1.71	6.07
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	20	1.35	0.15	1.36
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	19	14.64	4.05	15.0
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	19	12.17	5.37	10.5
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	19	7.03	1.62	6.4
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	19	5.88	0.93	5.8
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	19	3.26	1.65	2.4
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	18	13.05	4.98	14.0
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	18	4.48	1.69	5.2
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	17	15.17	6.03	18.5
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	17	10.29	3.66	11.5
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	16	8.82	2.69	10.1
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	16	8.55	2.11	9.4
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	16	3.84	0.49	3.9
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	14	2.47	0.33	2.4

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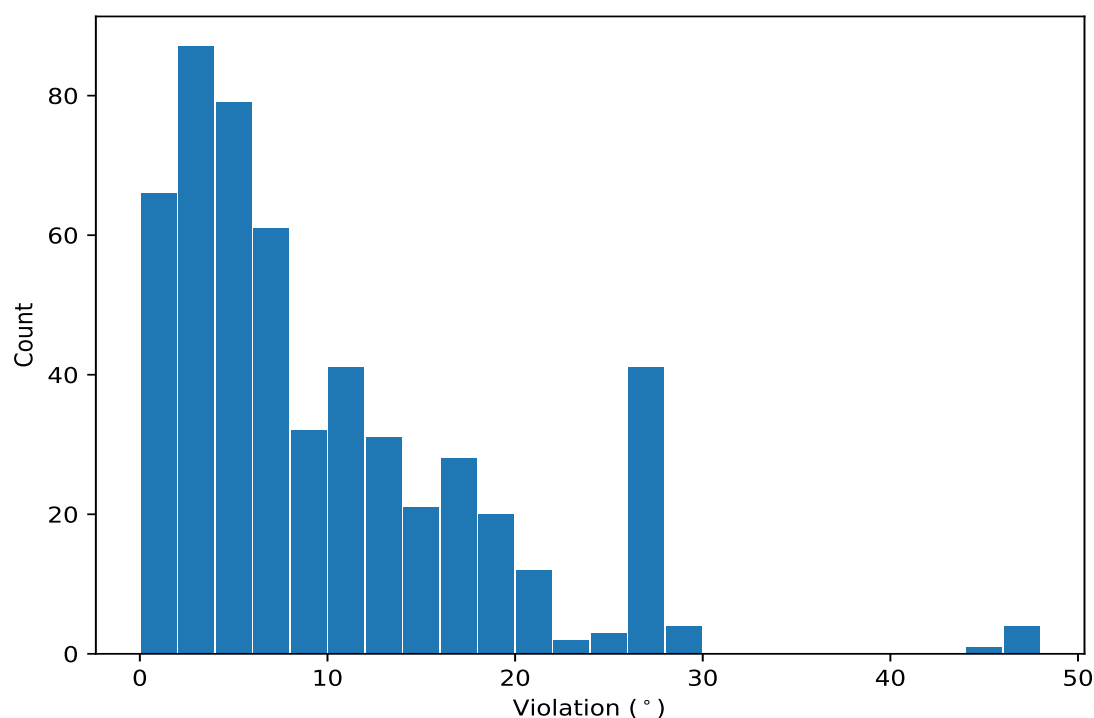
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Medi
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	14	1.34	0.16	1.3
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	13	8.95	2.95	9.1
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	11	6.31	1.42	6.7
(1,70)	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1:2293:A:CYS:N	10	8.59	3.25	8.4
(1,119)	1:2265:A:GLU:C	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	10	4.16	1.07	4.5
(1,59)	1:2284:A:SER:C	1:2285:A:PHE:N	1:2285:A:PHE:CA	1:2285:A:PHE:C	9	6.31	2.96	5.8
(1,76)	1:2296:A:ALA:N	1:2296:A:ALA:CA	1:2296:A:ALA:C	1:2297:A:TYR:N	9	3.67	1.06	4.1
(1,88)	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	1:2307:A:VAL:N	8	3.7	1.14	3.2
(1,23)	1:2257:A:ALA:C	1:2258:A:GLU:N	1:2258:A:GLU:CA	1:2258:A:GLU:C	7	3.55	0.72	3.6
(1,44)	1:2274:A:ALA:N	1:2274:A:ALA:CA	1:2274:A:ALA:C	1:2275:A:VAL:N	7	1.7	0.3	1.7
(1,6)	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	1:2242:A:ARG:N	6	8.15	4.84	8.6
(1,102)	1:2320:A:PRO:N	1:2320:A:PRO:CA	1:2320:A:PRO:C	1:2321:A:PHE:N	6	4.32	1.75	4.2
(1,41)	1:2272:A:ALA:C	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	6	2.38	0.57	2.1
(1,122)	1:2318:A:ASP:N	1:2318:A:ASP:CA	1:2318:A:ASP:C	1:2319:A:SER:N	5	46.37	0.6	46.5
(1,92)	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	1:2309:A:VAL:N	5	17.06	0.29	17.0
(1,87)	1:2305:A:TYR:C	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	5	2.19	0.48	2.1
(1,110)	1:2324:A:PRO:N	1:2324:A:PRO:CA	1:2324:A:PRO:C	1:2325:A:VAL:N	4	6.82	0.42	6.7
(1,120)	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	1:2267:A:GLY:N	3	6.83	3.77	5.9
(1,93)	1:2308:A:SER:C	1:2309:A:VAL:N	1:2309:A:VAL:CA	1:2309:A:VAL:C	3	3.74	2.36	3.1
(1,84)	1:2304:A:ASP:N	1:2304:A:ASP:CA	1:2304:A:ASP:C	1:2305:A:TYR:N	3	2.26	0.37	2.1
(1,54)	1:2282:A:GLU:N	1:2282:A:GLU:CA	1:2282:A:GLU:C	1:2283:A:ILE:N	3	1.59	0.05	1.6
(1,94)	1:2309:A:VAL:N	1:2309:A:VAL:CA	1:2309:A:VAL:C	1:2310:A:LYS:N	2	10.52	1.5	10.5
(1,50)	1:2279:A:SER:N	1:2279:A:SER:CA	1:2279:A:SER:C	1:2280:A:LYS:N	2	6.66	0.63	6.6
(1,56)	1:2283:A:ILE:N	1:2283:A:ILE:CA	1:2283:A:ILE:C	1:2284:A:SER:N	2	4.03	2.5	4.0
(1,37)	1:2270:A:GLY:C	1:2271:A:LEU:N	1:2271:A:LEU:CA	1:2271:A:LEU:C	2	2.38	0.86	2.3

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

10.5 All violated dihedral-angle restraints ⓘ

10.5.1 Histogram : Distribution of violations ⓘ

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



10.5.2 Table: All violated dihedral-angle restraints [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 (°)
(1,122)	1:2318:A:ASP:N	1:2318:A:ASP:CA	1:2318:A:ASP:C	1:2319:A:SER:N	19	47.26
(1,122)	1:2318:A:ASP:N	1:2318:A:ASP:CA	1:2318:A:ASP:C	1:2319:A:SER:N	8	46.56
(1,122)	1:2318:A:ASP:N	1:2318:A:ASP:CA	1:2318:A:ASP:C	1:2319:A:SER:N	3	46.52
(1,122)	1:2318:A:ASP:N	1:2318:A:ASP:CA	1:2318:A:ASP:C	1:2319:A:SER:N	14	46.1
(1,122)	1:2318:A:ASP:N	1:2318:A:ASP:CA	1:2318:A:ASP:C	1:2319:A:SER:N	18	45.43
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	8	28.48
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	10	28.41
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	15	28.12
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	14	28.1
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	13	27.91
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	3	27.9
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	9	27.88
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	16	27.87
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	6	27.8
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	4	27.75
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	1	27.71
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	5	27.67
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	1	27.57
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	18	27.56
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	7	27.51
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	2	27.48

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	10	27.4
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	17	27.37
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	20	27.36
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	3	27.34
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	13	27.33
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	5	27.33
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	15	27.26
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	3	27.22
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	6	27.22
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	19	27.22
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	15	27.21
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	11	27.19
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	16	27.17
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	12	27.17
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	8	27.12
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	19	27.08
(1,14)	1:2251:A:ALA:N	1:2251:A:ALA:CA	1:2251:A:ALA:C	1:2252:A:GLU:N	13	27.04
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	17	27.02
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	8	27.01
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	11	26.92
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	18	26.74
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	14	26.74
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	18	26.59
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	17	26.4
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	4	26.28
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	9	26.22
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	2	26.17
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	7	26.09
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	12	26.01
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	10	25.59
(1,51)	1:2280:A:LYS:C	1:2281:A:ALA:N	1:2281:A:ALA:CA	1:2281:A:ALA:C	20	25.31
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	14	24.44
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	4	23.0
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	5	22.17
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	1	21.79
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	6	21.43
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	18	21.38
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	7	21.26
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	13	21.02
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	14	20.8
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	18	20.8
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	7	20.76
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	8	20.73
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	12	20.66
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	20	20.66
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	11	20.17
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	16	19.76
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	19	19.4
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	6	19.38
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	2	18.96
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	11	18.96

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	7	18.92
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	19	18.86
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	20	18.82
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	5	18.76
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	6	18.74
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	9	18.6
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	8	18.52
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	13	18.52
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	16	18.5
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	15	18.44
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	9	18.38
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	18	18.3
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	13	18.23
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	16	18.04
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	12	18.03
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	3	17.97
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	10	17.79
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	7	17.77
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	15	17.77
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	17	17.71
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	19	17.68
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	2	17.66
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	11	17.63
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	17	17.53
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	9	17.39
(1,92)	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	1:2309:A:VAL:N	4	17.38
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	7	17.34
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	4	17.33
(1,92)	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	1:2309:A:VAL:N	12	17.33
(1,92)	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	1:2309:A:VAL:N	18	17.05
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	10	17.01
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	12	16.98
(1,92)	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	1:2309:A:VAL:N	2	16.98
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	2	16.83
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	14	16.82
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	3	16.72
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	8	16.69
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	20	16.63
(1,92)	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	1:2309:A:VAL:N	1	16.57
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	6	16.54
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	4	16.36
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	19	16.28
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	4	16.04
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	14	15.99
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	3	15.74
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	10	15.64
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	8	15.6
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	19	15.57
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	15	15.55
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	10	15.46
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	1	15.36

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	6	15.18
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	5	15.12
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	17	15.02
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	13	14.74
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	8	14.46
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	9	14.4
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	10	14.38
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	2	14.35
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	3	14.28
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	1	14.25
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	19	14.22
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	16	14.04
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	18	14.04
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	9	13.91
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	1	13.8
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	2	13.53
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	3	13.45
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	12	13.24
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	7	13.18
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	12	13.18
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	2	13.12
(1,6)	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	1:2242:A:ARG:N	9	13.09
(1,6)	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	1:2242:A:ARG:N	16	13.07
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	14	13.05
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	6	12.93
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	5	12.93
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	13	12.84
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	15	12.81
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	16	12.78
(1,6)	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	1:2242:A:ARG:N	20	12.58
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	1	12.57
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	6	12.57
(1,72)	1:2293:A:CYS:N	1:2293:A:CYS:CA	1:2293:A:CYS:C	1:2294:A:GLY:N	11	12.48
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	5	12.46
(1,70)	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1:2293:A:CYS:N	14	12.39
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	20	12.36
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	12	12.35
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	20	12.25
(1,70)	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1:2293:A:CYS:N	8	12.23
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	10	12.22
(1,70)	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1:2293:A:CYS:N	9	12.18
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	3	12.14
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	20	12.06
(1,94)	1:2309:A:VAL:N	1:2309:A:VAL:CA	1:2309:A:VAL:C	1:2310:A:LYS:N	7	12.01
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	14	11.92
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1	11.86
(1,120)	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	1:2267:A:GLY:N	7	11.83
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	9	11.82
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	8	11.74
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	4	11.66
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	17	11.65

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	6	11.63
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	17	11.62
(1,59)	1:2284:A:SER:C	1:2285:A:PHE:N	1:2285:A:PHE:CA	1:2285:A:PHE:C	5	11.55
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	19	11.54
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	11	11.51
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	17	11.44
(1,70)	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1:2293:A:CYS:N	1	11.41
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	12	11.14
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	7	10.95
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	16	10.95
(1,59)	1:2284:A:SER:C	1:2285:A:PHE:N	1:2285:A:PHE:CA	1:2285:A:PHE:C	12	10.93
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	11	10.93
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	15	10.9
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	5	10.74
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	4	10.57
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	4	10.57
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	11	10.53
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	4	10.53
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	5	10.47
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	7	10.46
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	19	10.41
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	17	10.38
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	16	10.33
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	2	10.32
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	5	10.32
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	6	10.29
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	11	10.28
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	15	10.28
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	5	10.26
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	2	10.24
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	6	10.13
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	20	10.04
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	1	10.03
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	11	10.03
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	7	9.97
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	17	9.53
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	13	9.45
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	11	9.41
(1,114)	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1:2327:A:SER:N	18	9.16
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	5	9.16
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	4	9.15
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	12	9.1
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	18	9.1
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	7	9.09
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	16	9.03
(1,94)	1:2309:A:VAL:N	1:2309:A:VAL:CA	1:2309:A:VAL:C	1:2310:A:LYS:N	15	9.02
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	3	8.96
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	15	8.96
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	6	8.93
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	1	8.92
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	20	8.91

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,70)	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1:2293:A:CYS:N	2	8.77
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	18	8.66
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	1	8.54
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	2	8.54
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	10	8.43
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	10	8.4
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	9	8.27
(1,70)	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1:2293:A:CYS:N	12	8.21
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	18	8.2
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	19	8.2
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	7	8.11
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	17	8.11
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	11	8.03
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	20	8.01
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	2	8.0
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	9	7.92
(1,90)	1:2307:A:VAL:N	1:2307:A:VAL:CA	1:2307:A:VAL:C	1:2308:A:SER:N	19	7.68
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	13	7.68
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	20	7.66
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	12	7.58
(1,102)	1:2320:A:PRO:N	1:2320:A:PRO:CA	1:2320:A:PRO:C	1:2321:A:PHE:N	16	7.54
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	19	7.53
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	13	7.47
(1,110)	1:2324:A:PRO:N	1:2324:A:PRO:CA	1:2324:A:PRO:C	1:2325:A:VAL:N	12	7.43
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	18	7.43
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	5	7.4
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	15	7.4
(1,59)	1:2284:A:SER:C	1:2285:A:PHE:N	1:2285:A:PHE:CA	1:2285:A:PHE:C	17	7.39
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	2	7.39
(1,50)	1:2279:A:SER:N	1:2279:A:SER:CA	1:2279:A:SER:C	1:2280:A:LYS:N	13	7.29
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	10	7.26
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	14	7.24
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	19	7.15
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	16	7.15
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	14	7.12
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	17	7.1
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	2	7.05
(1,70)	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1:2293:A:CYS:N	11	7.04
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	15	7.01
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	4	6.98
(1,110)	1:2324:A:PRO:N	1:2324:A:PRO:CA	1:2324:A:PRO:C	1:2325:A:VAL:N	10	6.94
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	14	6.92
(1,93)	1:2308:A:SER:C	1:2309:A:VAL:N	1:2309:A:VAL:CA	1:2309:A:VAL:C	12	6.88
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	8	6.86
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	9	6.77
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	12	6.76
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	8	6.75
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	14	6.72
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	15	6.69
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	16	6.67
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	2	6.64

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	10	6.61
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	8	6.6
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	4	6.59
(1,110)	1:2324:A:PRO:N	1:2324:A:PRO:CA	1:2324:A:PRO:C	1:2325:A:VAL:N	14	6.55
(1,56)	1:2283:A:ILE:N	1:2283:A:ILE:CA	1:2283:A:ILE:C	1:2284:A:SER:N	1	6.53
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	15	6.51
(1,70)	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1:2293:A:CYS:N	17	6.44
(1,88)	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	1:2307:A:VAL:N	15	6.42
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	11	6.4
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	17	6.4
(1,110)	1:2324:A:PRO:N	1:2324:A:PRO:CA	1:2324:A:PRO:C	1:2325:A:VAL:N	8	6.34
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	16	6.33
(1,59)	1:2284:A:SER:C	1:2285:A:PHE:N	1:2285:A:PHE:CA	1:2285:A:PHE:C	20	6.31
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	8	6.28
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	8	6.27
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	20	6.24
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	13	6.22
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	10	6.2
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	3	6.14
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	7	6.1
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	1	6.05
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	14	6.04
(1,50)	1:2279:A:SER:N	1:2279:A:SER:CA	1:2279:A:SER:C	1:2280:A:LYS:N	6	6.03
(1,73)	1:2294:A:GLY:C	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	6	6.02
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	5	6.01
(1,120)	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	1:2267:A:GLY:N	3	5.91
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	19	5.89
(1,57)	1:2283:A:ILE:C	1:2284:A:SER:N	1:2284:A:SER:CA	1:2284:A:SER:C	20	5.85
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	6	5.85
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	3	5.84
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	2	5.84
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	8	5.84
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	17	5.84
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	14	5.82
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	19	5.8
(1,59)	1:2284:A:SER:C	1:2285:A:PHE:N	1:2285:A:PHE:CA	1:2285:A:PHE:C	19	5.8
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	18	5.79
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	10	5.79
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	5	5.78
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	9	5.73
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	9	5.7
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	19	5.7
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	1	5.65
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	15	5.62
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	1	5.6
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	4	5.46
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	11	5.43
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	13	5.32
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	18	5.25
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	5	5.24
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	5	5.21

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	11	5.2
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	17	5.19
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	4	5.13
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	13	5.12
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	6	5.02
(1,102)	1:2320:A:PRO:N	1:2320:A:PRO:CA	1:2320:A:PRO:C	1:2321:A:PHE:N	14	5.0
(1,11)	1:2243:A:ALA:C	1:2244:A:GLY:N	1:2244:A:GLY:CA	1:2244:A:GLY:C	6	4.97
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	13	4.93
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	12	4.9
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	1	4.9
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	6	4.89
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	8	4.88
(1,119)	1:2265:A:GLU:C	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	15	4.87
(1,102)	1:2320:A:PRO:N	1:2320:A:PRO:CA	1:2320:A:PRO:C	1:2321:A:PHE:N	1	4.87
(1,76)	1:2296:A:ALA:N	1:2296:A:ALA:CA	1:2296:A:ALA:C	1:2297:A:TYR:N	9	4.76
(1,6)	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	1:2242:A:ARG:N	17	4.74
(1,23)	1:2257:A:ALA:C	1:2258:A:GLU:N	1:2258:A:GLU:CA	1:2258:A:GLU:C	20	4.73
(1,119)	1:2265:A:GLU:C	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	9	4.71
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	5	4.7
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	20	4.66
(1,119)	1:2265:A:GLU:C	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	16	4.65
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	12	4.64
(1,119)	1:2265:A:GLU:C	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	1	4.57
(1,119)	1:2265:A:GLU:C	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	11	4.56
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	16	4.54
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	5	4.52
(1,69)	1:2291:A:GLY:C	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	19	4.49
(1,119)	1:2265:A:GLU:C	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	14	4.48
(1,59)	1:2284:A:SER:C	1:2285:A:PHE:N	1:2285:A:PHE:CA	1:2285:A:PHE:C	6	4.45
(1,76)	1:2296:A:ALA:N	1:2296:A:ALA:CA	1:2296:A:ALA:C	1:2297:A:TYR:N	14	4.43
(1,119)	1:2265:A:GLU:C	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	4	4.38
(1,76)	1:2296:A:ALA:N	1:2296:A:ALA:CA	1:2296:A:ALA:C	1:2297:A:TYR:N	10	4.36
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	15	4.35
(1,119)	1:2265:A:GLU:C	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	17	4.34
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	18	4.33
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	20	4.32
(1,76)	1:2296:A:ALA:N	1:2296:A:ALA:CA	1:2296:A:ALA:C	1:2297:A:TYR:N	1	4.31
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	2	4.25
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	18	4.24
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	4	4.24
(1,76)	1:2296:A:ALA:N	1:2296:A:ALA:CA	1:2296:A:ALA:C	1:2297:A:TYR:N	8	4.18
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	3	4.18
(1,88)	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	1:2307:A:VAL:N	7	4.16
(1,70)	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1:2293:A:CYS:N	10	4.14
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	12	4.13
(1,23)	1:2257:A:ALA:C	1:2258:A:GLU:N	1:2258:A:GLU:CA	1:2258:A:GLU:C	8	4.08
(1,119)	1:2265:A:GLU:C	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	8	4.07
(1,88)	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	1:2307:A:VAL:N	19	4.04
(1,81)	1:2298:A:VAL:C	1:2299:A:VAL:N	1:2299:A:VAL:CA	1:2299:A:VAL:C	1	4.04
(1,23)	1:2257:A:ALA:C	1:2258:A:GLU:N	1:2258:A:GLU:CA	1:2258:A:GLU:C	7	4.04
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	11	4.04

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,76)	1:2296:A:ALA:N	1:2296:A:ALA:CA	1:2296:A:ALA:C	1:2297:A:TYR:N	5	4.0
(1,59)	1:2284:A:SER:C	1:2285:A:PHE:N	1:2285:A:PHE:CA	1:2285:A:PHE:C	4	4.0
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	18	3.99
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	19	3.99
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	6	3.97
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	5	3.96
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	14	3.94
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	4	3.93
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	7	3.93
(1,104)	1:2321:A:PHE:N	1:2321:A:PHE:CA	1:2321:A:PHE:C	1:2322:A:VAL:N	10	3.86
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	17	3.86
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	13	3.81
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	1	3.75
(1,59)	1:2284:A:SER:C	1:2285:A:PHE:N	1:2285:A:PHE:CA	1:2285:A:PHE:C	8	3.74
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	13	3.71
(1,30)	1:2261:A:ILE:N	1:2261:A:ILE:CA	1:2261:A:ILE:C	1:2262:A:TRP:N	14	3.64
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	10	3.64
(1,23)	1:2257:A:ALA:C	1:2258:A:GLU:N	1:2258:A:GLU:CA	1:2258:A:GLU:C	16	3.61
(1,41)	1:2272:A:ALA:C	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	7	3.56
(1,102)	1:2320:A:PRO:N	1:2320:A:PRO:CA	1:2320:A:PRO:C	1:2321:A:PHE:N	6	3.53
(1,6)	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	1:2242:A:ARG:N	18	3.51
(1,86)	1:2305:A:TYR:N	1:2305:A:TYR:CA	1:2305:A:TYR:C	1:2306:A:GLU:N	2	3.49
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	8	3.46
(1,76)	1:2296:A:ALA:N	1:2296:A:ALA:CA	1:2296:A:ALA:C	1:2297:A:TYR:N	11	3.45
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	15	3.37
(1,88)	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	1:2307:A:VAL:N	3	3.26
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	9	3.24
(1,37)	1:2270:A:GLY:C	1:2271:A:LEU:N	1:2271:A:LEU:CA	1:2271:A:LEU:C	9	3.24
(1,88)	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	1:2307:A:VAL:N	17	3.17
(1,93)	1:2308:A:SER:C	1:2309:A:VAL:N	1:2309:A:VAL:CA	1:2309:A:VAL:C	2	3.16
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	10	3.13
(1,70)	1:2292:A:SER:N	1:2292:A:SER:CA	1:2292:A:SER:C	1:2293:A:CYS:N	20	3.12
(1,88)	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	1:2307:A:VAL:N	16	3.09
(1,42)	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	1:2274:A:ALA:N	7	3.07
(1,103)	1:2320:A:PRO:C	1:2321:A:PHE:N	1:2321:A:PHE:CA	1:2321:A:PHE:C	7	3.0
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	3	2.97
(1,87)	1:2305:A:TYR:C	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	2	2.93
(1,88)	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	1:2307:A:VAL:N	11	2.92
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	2	2.9
(1,40)	1:2272:A:ALA:N	1:2272:A:ALA:CA	1:2272:A:ALA:C	1:2273:A:ILE:N	13	2.9
(1,23)	1:2257:A:ALA:C	1:2258:A:GLU:N	1:2258:A:GLU:CA	1:2258:A:GLU:C	14	2.87
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	12	2.81
(1,23)	1:2257:A:ALA:C	1:2258:A:GLU:N	1:2258:A:GLU:CA	1:2258:A:GLU:C	18	2.79
(1,20)	1:2256:A:PRO:N	1:2256:A:PRO:CA	1:2256:A:PRO:C	1:2257:A:ALA:N	19	2.78
(1,10)	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	1:2244:A:GLY:N	18	2.77
(1,84)	1:2304:A:ASP:N	1:2304:A:ASP:CA	1:2304:A:ASP:C	1:2305:A:TYR:N	12	2.75
(1,23)	1:2257:A:ALA:C	1:2258:A:GLU:N	1:2258:A:GLU:CA	1:2258:A:GLU:C	9	2.75
(1,120)	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	1:2267:A:GLY:N	5	2.74
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	9	2.74
(1,102)	1:2320:A:PRO:N	1:2320:A:PRO:CA	1:2320:A:PRO:C	1:2321:A:PHE:N	2	2.72
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	7	2.68

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	16	2.68
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	9	2.65
(1,59)	1:2284:A:SER:C	1:2285:A:PHE:N	1:2285:A:PHE:CA	1:2285:A:PHE:C	11	2.64
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	18	2.63
(1,88)	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	1:2307:A:VAL:N	20	2.57
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	17	2.57
(1,41)	1:2272:A:ALA:C	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	3	2.56
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	4	2.5
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	15	2.45
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	17	2.45
(1,95)	1:2309:A:VAL:C	1:2310:A:LYS:N	1:2310:A:LYS:CA	1:2310:A:LYS:C	3	2.45
(1,87)	1:2305:A:TYR:C	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	7	2.45
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	7	2.45
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	6	2.42
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	10	2.37
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	1	2.36
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	6	2.35
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	1	2.31
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	4	2.3
(1,102)	1:2320:A:PRO:N	1:2320:A:PRO:CA	1:2320:A:PRO:C	1:2321:A:PHE:N	13	2.29
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	14	2.29
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	2	2.26
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	14	2.22
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	5	2.21
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	13	2.21
(1,41)	1:2272:A:ALA:C	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	10	2.17
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	1	2.16
(1,84)	1:2304:A:ASP:N	1:2304:A:ASP:CA	1:2304:A:ASP:C	1:2305:A:TYR:N	5	2.15
(1,87)	1:2305:A:TYR:C	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	6	2.14
(1,7)	1:2241:A:VAL:C	1:2242:A:ARG:N	1:2242:A:ARG:CA	1:2242:A:ARG:C	3	2.13
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	2	2.12
(1,91)	1:2307:A:VAL:C	1:2308:A:SER:N	1:2308:A:SER:CA	1:2308:A:SER:C	8	2.1
(1,44)	1:2274:A:ALA:N	1:2274:A:ALA:CA	1:2274:A:ALA:C	1:2275:A:VAL:N	8	2.06
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	20	2.05
(1,41)	1:2272:A:ALA:C	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	16	2.05
(1,41)	1:2272:A:ALA:C	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	9	2.03
(1,44)	1:2274:A:ALA:N	1:2274:A:ALA:CA	1:2274:A:ALA:C	1:2275:A:VAL:N	1	2.01
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	19	2.0
(1,5)	1:2240:A:LYS:C	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	11	1.98
(1,6)	1:2241:A:VAL:N	1:2241:A:VAL:CA	1:2241:A:VAL:C	1:2242:A:ARG:N	14	1.91
(1,87)	1:2305:A:TYR:C	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	1	1.88
(1,41)	1:2272:A:ALA:C	1:2273:A:ILE:N	1:2273:A:ILE:CA	1:2273:A:ILE:C	15	1.88
(1,84)	1:2304:A:ASP:N	1:2304:A:ASP:CA	1:2304:A:ASP:C	1:2305:A:TYR:N	6	1.87
(1,76)	1:2296:A:ALA:N	1:2296:A:ALA:CA	1:2296:A:ALA:C	1:2297:A:TYR:N	2	1.82
(1,17)	1:2254:A:GLY:C	1:2255:A:VAL:N	1:2255:A:VAL:CA	1:2255:A:VAL:C	12	1.82
(1,44)	1:2274:A:ALA:N	1:2274:A:ALA:CA	1:2274:A:ALA:C	1:2275:A:VAL:N	14	1.77
(1,76)	1:2296:A:ALA:N	1:2296:A:ALA:CA	1:2296:A:ALA:C	1:2297:A:TYR:N	17	1.75
(1,44)	1:2274:A:ALA:N	1:2274:A:ALA:CA	1:2274:A:ALA:C	1:2275:A:VAL:N	3	1.73
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	7	1.71
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	10	1.7
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	4	1.66

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,64)	1:2287:A:ASP:N	1:2287:A:ASP:CA	1:2287:A:ASP:C	1:2288:A:ARG:N	14	1.65
(1,44)	1:2274:A:ALA:N	1:2274:A:ALA:CA	1:2274:A:ALA:C	1:2275:A:VAL:N	2	1.65
(1,54)	1:2282:A:GLU:N	1:2282:A:GLU:CA	1:2282:A:GLU:C	1:2283:A:ILE:N	1	1.63
(1,54)	1:2282:A:GLU:N	1:2282:A:GLU:CA	1:2282:A:GLU:C	1:2283:A:ILE:N	12	1.63
(1,97)	1:2310:A:LYS:C	1:2311:A:PHE:N	1:2311:A:PHE:CA	1:2311:A:PHE:C	6	1.57
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	10	1.57
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	10	1.56
(1,44)	1:2274:A:ALA:N	1:2274:A:ALA:CA	1:2274:A:ALA:C	1:2275:A:VAL:N	19	1.56
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	3	1.54
(1,87)	1:2305:A:TYR:C	1:2306:A:GLU:N	1:2306:A:GLU:CA	1:2306:A:GLU:C	5	1.53
(1,56)	1:2283:A:ILE:N	1:2283:A:ILE:CA	1:2283:A:ILE:C	1:2284:A:SER:N	9	1.53
(1,54)	1:2282:A:GLU:N	1:2282:A:GLU:CA	1:2282:A:GLU:C	1:2283:A:ILE:N	18	1.52
(1,37)	1:2270:A:GLY:C	1:2271:A:LEU:N	1:2271:A:LEU:CA	1:2271:A:LEU:C	13	1.52
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	20	1.5
(1,26)	1:2259:A:PHE:N	1:2259:A:PHE:CA	1:2259:A:PHE:C	1:2260:A:SER:N	6	1.45
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	8	1.44
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	17	1.44
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	7	1.44
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	16	1.41
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	13	1.41
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	5	1.4
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	14	1.39
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	20	1.39
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	11	1.39
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	12	1.37
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	11	1.37
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	9	1.35
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	18	1.33
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	19	1.32
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	12	1.31
(1,113)	1:2325:A:VAL:C	1:2326:A:ALA:N	1:2326:A:ALA:CA	1:2326:A:ALA:C	3	1.3
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	15	1.3
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	19	1.3
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	13	1.29
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	6	1.28
(1,89)	1:2306:A:GLU:C	1:2307:A:VAL:N	1:2307:A:VAL:CA	1:2307:A:VAL:C	17	1.28
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	18	1.28
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	15	1.25
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	5	1.25
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	6	1.25
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	2	1.24
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	11	1.22
(1,93)	1:2308:A:SER:C	1:2309:A:VAL:N	1:2309:A:VAL:CA	1:2309:A:VAL:C	18	1.18
(1,9)	1:2242:A:ARG:C	1:2243:A:ALA:N	1:2243:A:ALA:CA	1:2243:A:ALA:C	11	1.16
(1,46)	1:2275:A:VAL:N	1:2275:A:VAL:CA	1:2275:A:VAL:C	1:2276:A:GLU:N	12	1.12
(1,108)	1:2323:A:VAL:N	1:2323:A:VAL:CA	1:2323:A:VAL:C	1:2324:A:PRO:N	12	1.11
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	17	1.1
(1,44)	1:2274:A:ALA:N	1:2274:A:ALA:CA	1:2274:A:ALA:C	1:2275:A:VAL:N	12	1.09
(1,22)	1:2257:A:ALA:N	1:2257:A:ALA:CA	1:2257:A:ALA:C	1:2258:A:GLU:N	4	1.09
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	1	1.06
(1,118)	1:2329:A:SER:N	1:2329:A:SER:CA	1:2329:A:SER:C	1:2330:A:GLY:N	4	1.06

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,119)	1:2265:A:GLU:C	1:2266:A:ALA:N	1:2266:A:ALA:CA	1:2266:A:ALA:C	2	1.02
(1,74)	1:2295:A:VAL:N	1:2295:A:VAL:CA	1:2295:A:VAL:C	1:2296:A:ALA:N	1	1.02