



Full wwPDB NMR Structure Validation Report ⓘ

Mar 6, 2026 – 08:44 PM UTC

PDB ID : 2LOZ / pdb_00002loz
BMRB ID : 17364
Title : The novel binding mode of DLC1 and Tensin2 PTB domain
Authors : Liu, C.; Chen, L.; Zhu, G.
Deposited on : 2012-01-29

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

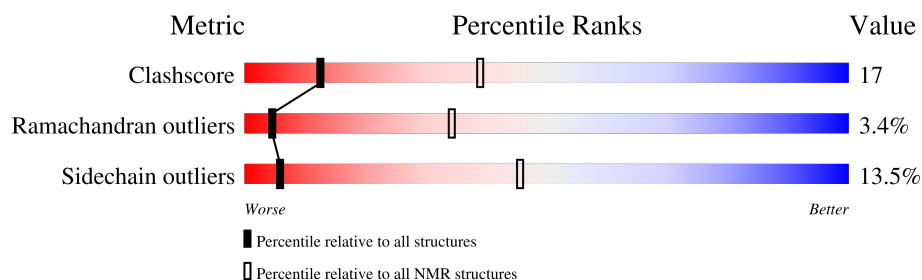
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 78%.

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	147	58% 37% ..
2	B	14	36% 29% 36%

2 Ensemble composition and analysis

This entry contains 10 models. Model 9 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:1266-A:1408, B:369-B:377 (152)	1.25	9

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

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

The models can be grouped into 2 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 4, 6, 7, 9, 10
2	5, 8

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 2469 atoms, of which 1234 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Tensin-like C1 domain-containing phosphatase.

Mol	Chain	Residues	Atoms						Trace
1	A	147	Total	C	H	N	O	S	0
			2252	710	1127	200	211	4	

- Molecule 2 is a protein called Rho GTPase-activating protein 7.

Mol	Chain	Residues	Atoms					Trace
2	B	14	Total	C	H	N	O	0
			217	69	107	19	22	

4 Residue-property plots

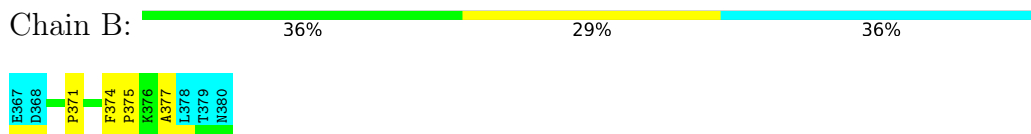
4.1 Average score per residue in the NMR ensemble

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: Tensin-like C1 domain-containing phosphatase



- Molecule 2: Rho GTPase-activating protein 7

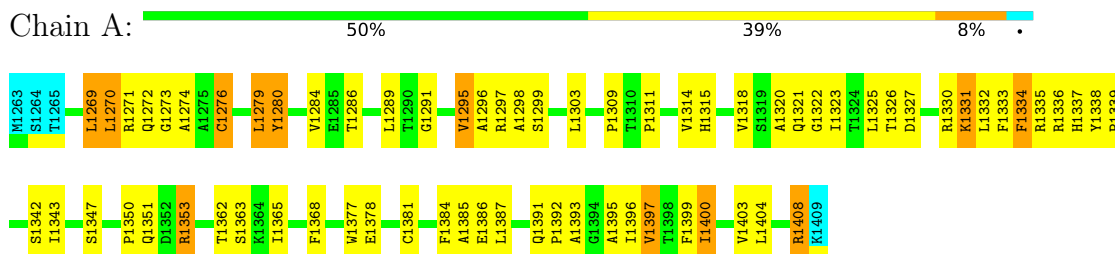


4.2 Scores per residue for each member of the ensemble

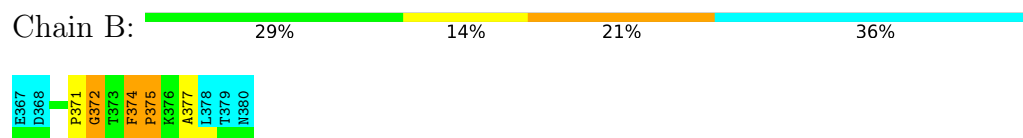
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Tensin-like C1 domain-containing phosphatase

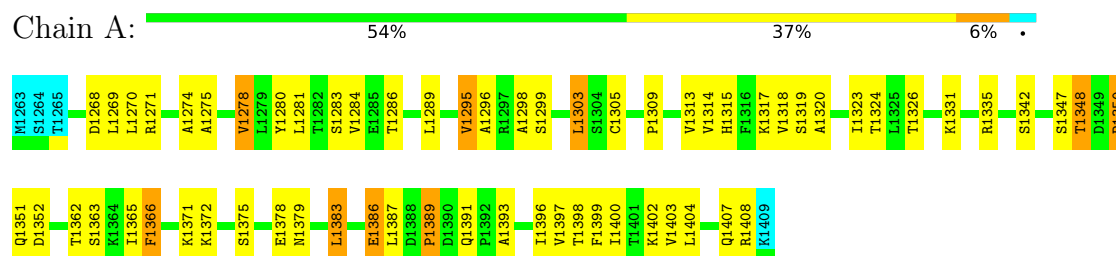


- Molecule 2: Rho GTPase-activating protein 7

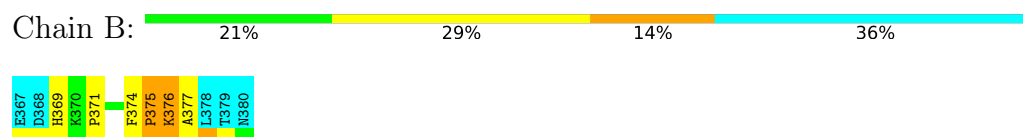


4.2.2 Score per residue for model 2

- Molecule 1: Tensin-like C1 domain-containing phosphatase

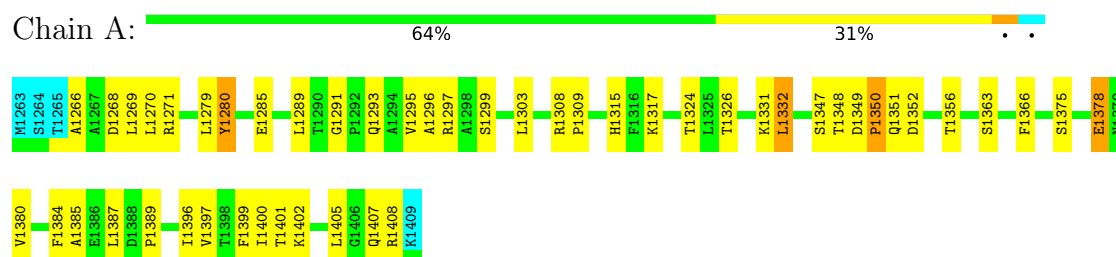


- Molecule 2: Rho GTPase-activating protein 7



4.2.3 Score per residue for model 3

- Molecule 1: Tensin-like C1 domain-containing phosphatase

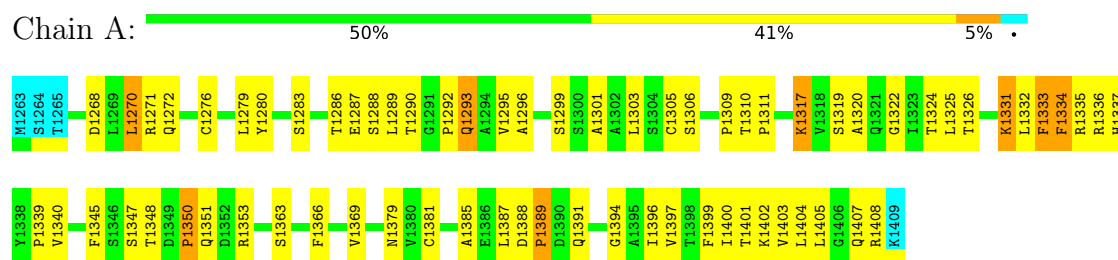


- Molecule 2: Rho GTPase-activating protein 7

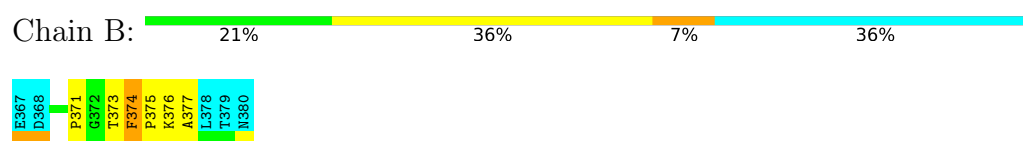


4.2.4 Score per residue for model 4

- Molecule 1: Tensin-like C1 domain-containing phosphatase

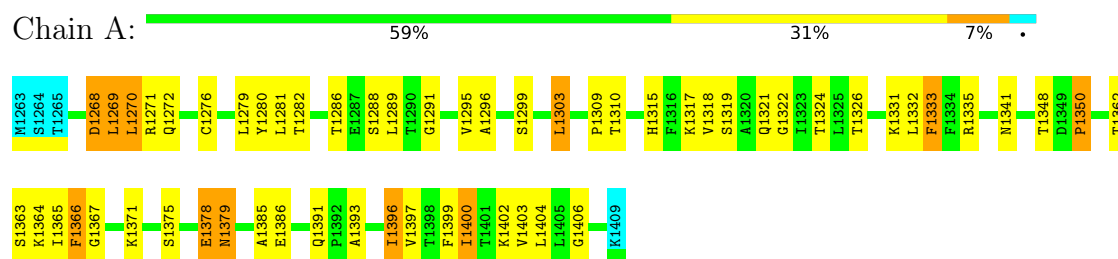


- Molecule 2: Rho GTPase-activating protein 7

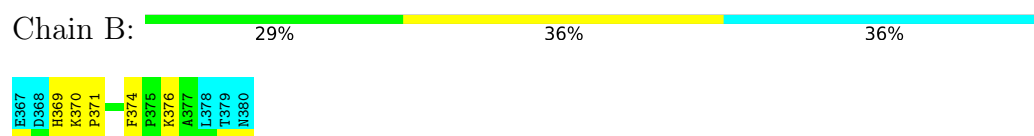


4.2.5 Score per residue for model 5

- Molecule 1: Tensin-like C1 domain-containing phosphatase

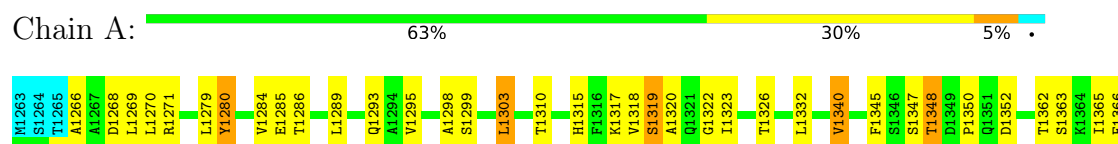


- Molecule 2: Rho GTPase-activating protein 7



4.2.6 Score per residue for model 6

- Molecule 1: Tensin-like C1 domain-containing phosphatase



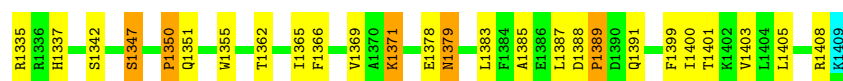
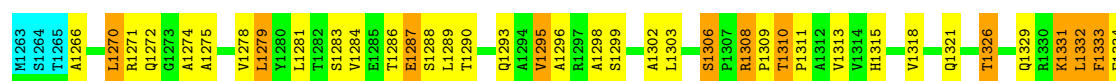


- Molecule 2: Rho GTPase-activating protein 7



4.2.7 Score per residue for model 7

- Molecule 1: Tensin-like C1 domain-containing phosphatase



- Molecule 2: Rho GTPase-activating protein 7

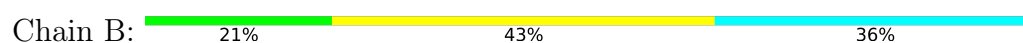


4.2.8 Score per residue for model 8

- Molecule 1: Tensin-like C1 domain-containing phosphatase

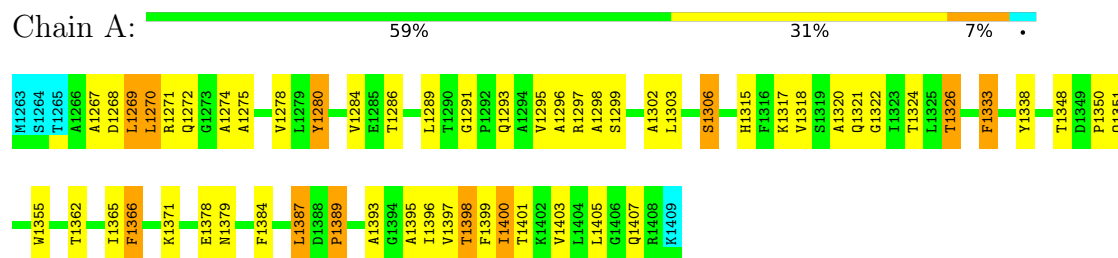


- Molecule 2: Rho GTPase-activating protein 7

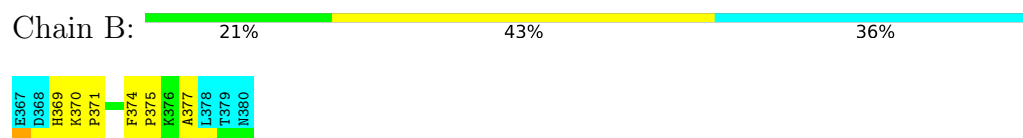


4.2.9 Score per residue for model 9 (medoid)

- Molecule 1: Tensin-like C1 domain-containing phosphatase

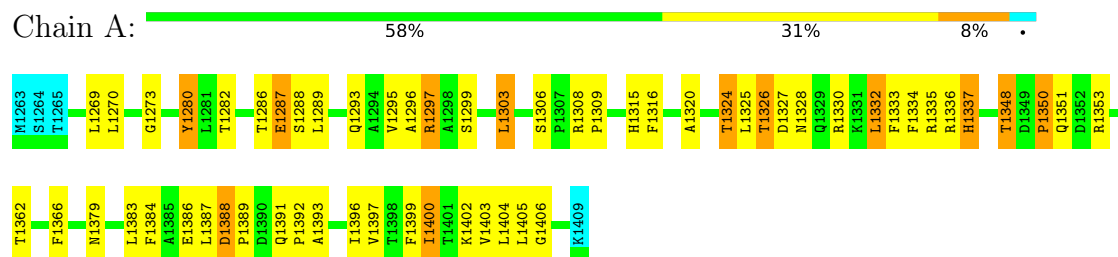


- Molecule 2: Rho GTPase-activating protein 7

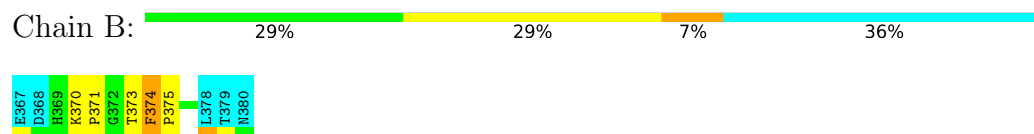


4.2.10 Score per residue for model 10

- Molecule 1: Tensin-like C1 domain-containing phosphatase



- Molecule 2: Rho GTPase-activating protein 7



5 Refinement protocol and experimental data overview

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

Of the 200 calculated structures, 10 were deposited, based on the following criterion: *structures with the least restraint violations*.

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

Software name	Classification	Version
CYANA	structure solution	
ProcheckNMR	geometry optimization	
CNS	refinement	
CNS	geometry optimization	
HADDOCK	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	1609
Number of shifts mapped to atoms	1609
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	78%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.42±0.01	0±0/1122 (0.0± 0.0%)	0.76±0.01	0±0/1532 (0.0± 0.0%)
2	B	0.52±0.05	0±0/73 (0.0± 0.0%)	0.89±0.05	0±0/99 (0.0± 0.0%)
All	All	0.42	0/11950 (0.0%)	0.77	1/16310 (0.0%)

There are no bond-length outliers.

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	1390	ASP	N-CA-C	-5.05	107.18	113.55	8	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1094	1091	1091	38±7
2	B	69	71	71	5±1
All	All	11630	11620	11620	390

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 17.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:1348:THR:HB	1:A:1397:VAL:HG11	0.88	1.45	2	2
1:A:1348:THR:HA	1:A:1366:PHE:HB2	0.86	1.44	2	2
1:A:1289:LEU:HD22	1:A:1293:GLN:HG2	0.83	1.48	4	6
1:A:1315:HIS:HB3	1:A:1326:THR:HB	0.83	1.51	9	6
1:A:1319:SER:HB3	2:B:376:LYS:HG3	0.83	1.49	5	1
1:A:1317:LYS:HB2	1:A:1324:THR:HB	0.77	1.53	5	6
2:B:370:LYS:HD3	2:B:371:PRO:HD2	0.77	1.56	9	1
1:A:1355:TRP:HB2	1:A:1365:ILE:HG12	0.75	1.59	7	2
2:B:374:PHE:HB3	2:B:375:PRO:HD2	0.73	1.58	3	1
1:A:1270:LEU:HD22	1:A:1403:VAL:HG21	0.73	1.60	1	3
1:A:1402:LYS:HB3	1:A:1408:ARG:HB2	0.73	1.60	2	2
1:A:1322:GLY:HA3	1:A:1339:PRO:HA	0.73	1.61	1	2
1:A:1286:THR:HG22	1:A:1289:LEU:HD12	0.72	1.59	7	8
1:A:1274:ALA:HB3	1:A:1318:VAL:HB	0.71	1.62	7	1
1:A:1363:SER:HB3	1:A:1386:GLU:HG2	0.71	1.61	6	3
1:A:1272:GLN:HA	2:B:375:PRO:HA	0.71	1.61	8	1
1:A:1315:HIS:HB2	1:A:1328:ASN:HB2	0.71	1.63	10	1
1:A:1345:PHE:HA	1:A:1405:LEU:HD21	0.70	1.62	4	1
1:A:1348:THR:HB	1:A:1365:ILE:O	0.69	1.88	5	1
1:A:1317:LYS:HB3	2:B:374:PHE:HE2	0.69	1.46	6	2
1:A:1331:LYS:HG3	1:A:1332:LEU:HD12	0.69	1.65	5	1
1:A:1403:VAL:HG23	1:A:1404:LEU:HD12	0.68	1.64	4	2
1:A:1270:LEU:HD13	1:A:1320:ALA:HB2	0.68	1.64	9	3
1:A:1280:TYR:HA	1:A:1384:PHE:HD1	0.68	1.48	8	3
1:A:1327:ASP:HB3	1:A:1334:PHE:HB2	0.68	1.66	10	1
1:A:1289:LEU:HD11	1:A:1297:ARG:HD2	0.67	1.67	9	3
1:A:1279:LEU:HD23	1:A:1385:ALA:HB3	0.67	1.65	4	2
1:A:1348:THR:HG22	1:A:1366:PHE:HB2	0.67	1.66	9	1
1:A:1296:ALA:HA	1:A:1350:PRO:HG3	0.66	1.65	10	7
1:A:1272:GLN:HB2	2:B:371:PRO:HB2	0.65	1.67	7	2
1:A:1402:LYS:HA	1:A:1407:GLN:HB2	0.65	1.69	2	2
1:A:1269:LEU:H	1:A:1269:LEU:HD13	0.65	1.51	5	1
1:A:1284:VAL:HG21	1:A:1298:ALA:HA	0.64	1.67	7	6
1:A:1268:ASP:HA	1:A:1271:ARG:CD	0.64	2.21	2	3
1:A:1272:GLN:HB2	2:B:371:PRO:HB3	0.64	1.68	4	1
1:A:1348:THR:HA	1:A:1366:PHE:HA	0.64	1.67	8	5
1:A:1397:VAL:HA	1:A:1400:ILE:HG22	0.64	1.69	3	2
1:A:1268:ASP:HB3	2:B:371:PRO:HG2	0.64	1.68	5	1
1:A:1273:GLY:HA3	2:B:375:PRO:HG3	0.64	1.69	10	1
1:A:1369:VAL:HG12	1:A:1379:ASN:HB2	0.63	1.68	4	2
1:A:1348:THR:HG23	1:A:1366:PHE:HB3	0.63	1.69	8	1
1:A:1279:LEU:HB3	1:A:1385:ALA:HB3	0.63	1.69	1	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:1272:GLN:HB3	2:B:371:PRO:HB2	0.62	1.68	9	1
1:A:1299:SER:O	1:A:1303:LEU:HG	0.62	1.95	9	10
1:A:1371:LYS:HA	1:A:1379:ASN:HA	0.62	1.72	6	5
1:A:1268:ASP:HA	1:A:1271:ARG:HD2	0.61	1.71	8	2
1:A:1342:SER:HB3	1:A:1371:LYS:HB2	0.61	1.71	7	1
1:A:1270:LEU:HB3	1:A:1403:VAL:HG13	0.61	1.73	5	1
1:A:1280:TYR:HA	1:A:1384:PHE:CG	0.60	2.31	10	1
1:A:1272:GLN:CB	2:B:371:PRO:HB2	0.60	2.27	9	2
1:A:1279:LEU:CD1	1:A:1385:ALA:HB3	0.60	2.26	7	1
1:A:1327:ASP:HA	1:A:1334:PHE:HD2	0.60	1.56	10	1
1:A:1324:THR:HG23	1:A:1337:HIS:HB3	0.59	1.74	10	1
1:A:1281:LEU:HB2	1:A:1383:LEU:HB3	0.59	1.73	2	1
1:A:1326:THR:HG23	1:A:1336:ARG:HA	0.59	1.74	10	1
1:A:1396:ILE:HA	1:A:1399:PHE:CE2	0.59	2.33	1	8
1:A:1327:ASP:HB2	1:A:1330:ARG:HG2	0.59	1.74	1	1
1:A:1274:ALA:HB3	1:A:1318:VAL:HG22	0.59	1.73	9	1
1:A:1299:SER:HA	1:A:1383:LEU:HD21	0.58	1.74	2	1
1:A:1388:ASP:H	1:A:1389:PRO:HD3	0.58	1.56	10	1
1:A:1296:ALA:CA	1:A:1350:PRO:HG3	0.58	2.27	5	2
1:A:1325:LEU:HD21	1:A:1334:PHE:HB3	0.58	1.74	4	1
1:A:1366:PHE:HE1	1:A:1386:GLU:HA	0.58	1.57	5	1
1:A:1399:PHE:O	1:A:1403:VAL:HG12	0.58	1.99	7	1
1:A:1348:THR:HA	1:A:1366:PHE:CB	0.57	2.29	3	4
1:A:1401:THR:HG23	1:A:1405:LEU:HD12	0.57	1.75	9	2
1:A:1295:VAL:HG21	1:A:1347:SER:HB2	0.57	1.76	1	2
1:A:1326:THR:HG23	1:A:1335:ARG:HB3	0.57	1.76	2	2
1:A:1349:ASP:HB2	1:A:1352:ASP:HA	0.56	1.76	3	1
1:A:1331:LYS:HG3	1:A:1332:LEU:HD22	0.56	1.76	1	1
1:A:1393:ALA:HA	1:A:1396:ILE:HG22	0.56	1.75	2	2
1:A:1398:THR:O	1:A:1402:LYS:HD3	0.56	1.99	8	2
1:A:1280:TYR:HA	1:A:1384:PHE:CD1	0.56	2.35	1	3
1:A:1318:VAL:HG12	1:A:1323:ILE:HG12	0.56	1.77	2	1
1:A:1348:THR:CA	1:A:1366:PHE:HA	0.56	2.31	5	1
1:A:1332:LEU:O	1:A:1333:PHE:HB3	0.55	2.01	4	2
2:B:374:PHE:HD1	2:B:375:PRO:HD2	0.55	1.62	2	1
1:A:1266:ALA:HB1	1:A:1399:PHE:HB2	0.55	1.78	7	1
1:A:1310:THR:HG22	1:A:1311:PRO:HD2	0.55	1.79	7	1
1:A:1266:ALA:CB	1:A:1399:PHE:HB2	0.55	2.32	6	2
1:A:1396:ILE:HA	1:A:1399:PHE:CZ	0.54	2.37	1	1
1:A:1268:ASP:HA	1:A:1271:ARG:HD3	0.54	1.80	2	1
1:A:1286:THR:HB	1:A:1289:LEU:HB2	0.54	1.80	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:1277:SER:HB2	1:A:1387:LEU:HD22	0.54	1.78	8	1
1:A:1269:LEU:HG	1:A:1399:PHE:CZ	0.54	2.38	1	1
1:A:1289:LEU:HD11	1:A:1297:ARG:HD3	0.54	1.79	3	2
1:A:1276:CYS:SG	2:B:369:HIS:HA	0.54	2.43	5	1
1:A:1329:GLN:HB2	1:A:1331:LYS:HE3	0.54	1.79	7	1
1:A:1399:PHE:O	1:A:1403:VAL:HG23	0.54	2.03	5	3
1:A:1315:HIS:HB2	1:A:1326:THR:HB	0.54	1.80	8	1
1:A:1268:ASP:HA	1:A:1271:ARG:HG2	0.54	1.80	3	1
1:A:1348:THR:HA	1:A:1367:GLY:H	0.54	1.63	5	1
1:A:1280:TYR:CZ	1:A:1332:LEU:HD11	0.54	2.38	8	1
1:A:1366:PHE:CE2	1:A:1384:PHE:HB2	0.54	2.38	8	1
1:A:1349:ASP:CG	1:A:1352:ASP:HA	0.53	2.27	8	1
1:A:1375:SER:HB3	1:A:1378:GLU:HG3	0.53	1.79	3	3
2:B:374:PHE:CD1	2:B:375:PRO:HD2	0.53	2.38	2	1
1:A:1315:HIS:CB	1:A:1326:THR:HB	0.53	2.33	1	1
1:A:1270:LEU:HD11	1:A:1403:VAL:HG11	0.53	1.81	2	1
1:A:1322:GLY:N	1:A:1340:VAL:HG13	0.53	2.19	6	2
1:A:1331:LYS:HG3	1:A:1332:LEU:HG	0.53	1.79	3	1
1:A:1319:SER:HB3	2:B:376:LYS:CG	0.53	2.28	5	1
1:A:1325:LEU:O	1:A:1336:ARG:HA	0.53	2.02	1	1
1:A:1331:LYS:HD3	1:A:1332:LEU:HG	0.53	1.81	4	1
1:A:1316:PHE:HA	1:A:1324:THR:O	0.53	2.04	10	1
1:A:1347:SER:HA	1:A:1397:VAL:CG2	0.53	2.34	3	1
1:A:1268:ASP:O	1:A:1272:GLN:HG2	0.53	2.04	4	1
2:B:373:THR:O	2:B:374:PHE:HB3	0.53	2.04	10	1
2:B:374:PHE:HB3	2:B:375:PRO:HD3	0.52	1.80	1	1
1:A:1274:ALA:HB2	2:B:373:THR:O	0.52	2.03	8	1
1:A:1338:TYR:HB3	1:A:1342:SER:HB2	0.52	1.79	1	1
1:A:1301:ALA:O	1:A:1305:CYS:HB3	0.52	2.04	8	2
1:A:1271:ARG:HA	2:B:377:ALA:HA	0.52	1.81	1	1
1:A:1342:SER:HA	1:A:1371:LYS:HE2	0.52	1.82	8	2
1:A:1326:THR:HA	1:A:1335:ARG:O	0.52	2.04	10	1
1:A:1400:ILE:HG12	1:A:1404:LEU:HD23	0.52	1.82	5	2
1:A:1314:VAL:HG11	1:A:1334:PHE:CE1	0.51	2.39	1	1
1:A:1318:VAL:HG12	1:A:1400:ILE:HD11	0.51	1.82	6	1
1:A:1353:ARG:HD3	1:A:1365:ILE:HD12	0.51	1.82	8	2
1:A:1348:THR:HA	1:A:1367:GLY:N	0.51	2.21	5	1
1:A:1278:VAL:HG21	1:A:1366:PHE:HZ	0.51	1.65	7	1
1:A:1287:GLU:HB3	1:A:1379:ASN:H	0.51	1.66	10	2
1:A:1327:ASP:HA	1:A:1334:PHE:CD2	0.51	2.39	10	1
1:A:1321:GLN:HB2	2:B:376:LYS:HD2	0.51	1.80	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:1295:VAL:HG21	1:A:1347:SER:HB3	0.51	1.83	2	2
1:A:1270:LEU:HD11	1:A:1403:VAL:HG21	0.51	1.82	7	1
1:A:1270:LEU:O	1:A:1319:SER:HA	0.51	2.06	2	1
1:A:1280:TYR:CD2	1:A:1312:ALA:HB3	0.50	2.41	8	1
1:A:1317:LYS:HB3	2:B:374:PHE:CE2	0.50	2.36	6	2
1:A:1273:GLY:HA3	2:B:375:PRO:CD	0.50	2.36	1	1
1:A:1325:LEU:HD23	1:A:1326:THR:N	0.50	2.21	4	1
1:A:1364:LYS:HE3	1:A:1393:ALA:HB3	0.50	1.82	5	1
1:A:1388:ASP:N	1:A:1389:PRO:CD	0.50	2.75	10	1
1:A:1296:ALA:CA	1:A:1350:PRO:HB3	0.50	2.37	8	2
1:A:1366:PHE:CE1	1:A:1386:GLU:HA	0.50	2.40	5	1
1:A:1353:ARG:CZ	1:A:1353:ARG:HB2	0.49	2.36	8	2
1:A:1280:TYR:CE2	1:A:1332:LEU:HG	0.49	2.42	1	1
1:A:1284:VAL:CG2	1:A:1298:ALA:HA	0.49	2.36	7	1
1:A:1296:ALA:N	1:A:1350:PRO:HB3	0.49	2.21	8	3
1:A:1377:TRP:CD1	1:A:1378:GLU:HG2	0.49	2.43	8	1
2:B:374:PHE:CB	2:B:375:PRO:HD2	0.49	2.34	3	1
1:A:1302:ALA:O	1:A:1306:SER:HB2	0.49	2.08	7	1
1:A:1279:LEU:HD11	1:A:1311:PRO:HB2	0.48	1.85	4	2
1:A:1325:LEU:CD2	1:A:1334:PHE:HB3	0.48	2.38	4	1
1:A:1278:VAL:HG21	1:A:1366:PHE:HE2	0.48	1.68	8	2
1:A:1348:THR:HG22	1:A:1348:THR:O	0.48	2.09	8	1
1:A:1275:ALA:HB3	2:B:369:HIS:HE1	0.48	1.67	9	1
1:A:1290:THR:HG22	1:A:1293:GLN:HB2	0.48	1.84	4	1
2:B:374:PHE:HB3	2:B:375:PRO:CD	0.48	2.35	3	1
1:A:1397:VAL:HA	1:A:1400:ILE:HB	0.48	1.86	9	1
1:A:1400:ILE:O	1:A:1404:LEU:HB2	0.48	2.08	2	2
1:A:1348:THR:HG23	1:A:1366:PHE:CB	0.48	2.37	8	1
1:A:1396:ILE:HA	1:A:1399:PHE:CE1	0.48	2.43	10	1
1:A:1290:THR:HG23	1:A:1292:PRO:HD2	0.48	1.84	4	1
1:A:1319:SER:HB3	1:A:1322:GLY:O	0.47	2.09	4	1
1:A:1287:GLU:HB3	1:A:1378:GLU:HB3	0.47	1.85	7	1
1:A:1274:ALA:HA	2:B:374:PHE:HD2	0.47	1.67	8	1
1:A:1302:ALA:HA	1:A:1306:SER:HB3	0.47	1.86	9	1
1:A:1270:LEU:HD12	1:A:1320:ALA:HB2	0.47	1.86	8	1
1:A:1270:LEU:HD22	1:A:1403:VAL:HG11	0.47	1.86	8	1
1:A:1349:ASP:CB	1:A:1352:ASP:HA	0.47	2.40	3	1
1:A:1401:THR:O	1:A:1405:LEU:HB2	0.47	2.10	4	2
1:A:1282:THR:OG1	1:A:1308:ARG:HD3	0.47	2.10	10	1
1:A:1272:GLN:HB3	2:B:372:GLY:HA3	0.47	1.87	1	1
1:A:1274:ALA:HA	2:B:371:PRO:HA	0.47	1.87	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:1395:ALA:O	1:A:1398:THR:HB	0.47	2.09	9	1
1:A:1270:LEU:HD11	1:A:1403:VAL:CG1	0.46	2.40	2	1
1:A:1285:GLU:HA	1:A:1380:VAL:HG12	0.46	1.86	6	1
1:A:1322:GLY:HA3	1:A:1338:TYR:O	0.46	2.10	9	2
1:A:1280:TYR:HE2	1:A:1332:LEU:HG	0.46	1.70	1	1
1:A:1401:THR:HG22	1:A:1407:GLN:HG3	0.46	1.86	4	1
1:A:1363:SER:HB3	1:A:1386:GLU:HB3	0.46	1.86	5	1
1:A:1389:PRO:HB3	2:B:369:HIS:H	0.46	1.70	2	1
1:A:1271:ARG:HG3	1:A:1272:GLN:HG2	0.46	1.88	5	1
1:A:1393:ALA:HA	1:A:1396:ILE:HG12	0.46	1.87	10	1
1:A:1396:ILE:O	1:A:1400:ILE:HB	0.46	2.11	10	1
1:A:1308:ARG:N	1:A:1308:ARG:HD3	0.45	2.26	7	1
1:A:1325:LEU:HD11	1:A:1384:PHE:CD2	0.45	2.46	10	1
1:A:1388:ASP:N	1:A:1389:PRO:HD3	0.45	2.25	10	1
1:A:1372:LYS:HG3	1:A:1375:SER:HB2	0.45	1.87	2	2
1:A:1285:GLU:HG2	1:A:1380:VAL:HG22	0.45	1.89	3	2
1:A:1278:VAL:HG21	1:A:1366:PHE:CZ	0.45	2.47	7	1
2:B:374:PHE:H	2:B:375:PRO:CD	0.45	2.24	4	1
1:A:1327:ASP:CB	1:A:1334:PHE:HB2	0.45	2.39	10	1
1:A:1388:ASP:H	1:A:1389:PRO:CD	0.45	2.25	10	1
1:A:1388:ASP:HB2	1:A:1391:GLN:O	0.45	2.12	7	1
1:A:1365:ILE:CG2	1:A:1383:LEU:HG	0.45	2.42	2	1
1:A:1396:ILE:HG13	1:A:1397:VAL:N	0.45	2.26	5	1
1:A:1386:GLU:HB3	1:A:1393:ALA:CB	0.45	2.42	10	1
1:A:1269:LEU:HD21	1:A:1399:PHE:CE1	0.45	2.46	5	1
1:A:1323:ILE:H	1:A:1343:ILE:HD11	0.44	1.72	1	1
1:A:1281:LEU:HD21	1:A:1385:ALA:HB2	0.44	1.88	7	1
1:A:1273:GLY:HA3	2:B:375:PRO:CG	0.44	2.42	10	1
1:A:1266:ALA:O	1:A:1270:LEU:HD23	0.44	2.12	8	1
1:A:1345:PHE:HE2	1:A:1347:SER:HB2	0.44	1.73	6	1
1:A:1270:LEU:HD11	2:B:377:ALA:HA	0.44	1.89	6	1
1:A:1353:ARG:NE	1:A:1353:ARG:HA	0.44	2.28	10	1
1:A:1368:PHE:O	1:A:1381:CYS:HA	0.44	2.12	1	1
1:A:1271:ARG:HB2	2:B:377:ALA:HB1	0.44	1.88	7	1
1:A:1351:GLN:O	1:A:1352:ASP:HB2	0.44	2.11	8	2
1:A:1319:SER:HB2	1:A:1322:GLY:O	0.44	2.13	5	1
1:A:1268:ASP:HB3	2:B:371:PRO:CG	0.43	2.40	5	1
1:A:1274:ALA:HB1	2:B:371:PRO:HD2	0.43	1.90	1	1
1:A:1271:ARG:HB2	2:B:377:ALA:HA	0.43	1.89	4	1
1:A:1314:VAL:HB	1:A:1326:THR:O	0.43	2.13	2	1
1:A:1348:THR:HG21	1:A:1394:GLY:HA2	0.43	1.89	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:1281:LEU:O	1:A:1282:THR:HB	0.43	2.13	5	1
1:A:1269:LEU:HD12	1:A:1274:ALA:HB2	0.43	1.89	9	1
1:A:1269:LEU:HA	2:B:371:PRO:HG3	0.43	1.91	10	1
1:A:1276:CYS:HB3	1:A:1391:GLN:NE2	0.43	2.29	1	1
1:A:1325:LEU:HD11	1:A:1384:PHE:CE2	0.43	2.48	10	1
1:A:1347:SER:C	1:A:1397:VAL:HG21	0.43	2.38	1	1
1:A:1396:ILE:HG13	1:A:1399:PHE:CZ	0.43	2.48	2	1
1:A:1348:THR:CB	1:A:1366:PHE:HA	0.43	2.44	5	1
1:A:1389:PRO:HB3	2:B:369:HIS:N	0.43	2.28	2	1
1:A:1397:VAL:HA	1:A:1400:ILE:CG2	0.43	2.41	2	1
1:A:1325:LEU:HB3	1:A:1335:ARG:O	0.43	2.14	4	1
1:A:1387:LEU:C	1:A:1389:PRO:HD3	0.43	2.39	9	1
2:B:373:THR:C	2:B:375:PRO:HD2	0.43	2.39	10	1
1:A:1366:PHE:HE1	1:A:1386:GLU:CA	0.43	2.27	5	1
1:A:1389:PRO:HG3	2:B:369:HIS:HB2	0.42	1.91	2	1
1:A:1317:LYS:HE2	2:B:374:PHE:CE2	0.42	2.48	8	1
1:A:1399:PHE:O	1:A:1403:VAL:HG22	0.42	2.14	8	1
1:A:1270:LEU:HD12	2:B:377:ALA:HB1	0.42	1.91	9	1
1:A:1275:ALA:H	2:B:371:PRO:HA	0.42	1.74	2	1
1:A:1402:LYS:O	1:A:1406:GLY:HA2	0.42	2.15	10	2
1:A:1393:ALA:O	1:A:1397:VAL:HG22	0.42	2.15	10	1
1:A:1392:PRO:HG2	1:A:1395:ALA:HB3	0.42	1.90	1	1
1:A:1289:LEU:HD11	1:A:1297:ARG:CD	0.42	2.45	3	1
1:A:1319:SER:HB3	2:B:374:PHE:CE1	0.42	2.50	6	1
1:A:1268:ASP:HA	1:A:1271:ARG:NE	0.42	2.29	9	1
1:A:1275:ALA:HB3	2:B:369:HIS:CE1	0.42	2.49	9	1
1:A:1280:TYR:CE1	1:A:1332:LEU:HD13	0.42	2.50	10	1
1:A:1369:VAL:CG1	1:A:1379:ASN:HB2	0.42	2.41	4	1
1:A:1290:THR:HG22	1:A:1293:GLN:CB	0.42	2.44	4	2
2:B:375:PRO:O	2:B:376:LYS:HB2	0.42	2.15	4	1
1:A:1295:VAL:HG11	1:A:1348:THR:O	0.42	2.13	10	1
1:A:1386:GLU:HB3	1:A:1393:ALA:HB2	0.42	1.91	10	1
1:A:1268:ASP:HA	1:A:1271:ARG:CG	0.42	2.44	2	1
1:A:1348:THR:O	1:A:1348:THR:HG22	0.41	2.15	3	1
1:A:1349:ASP:HB2	1:A:1352:ASP:CA	0.41	2.45	3	1
1:A:1348:THR:HG21	1:A:1393:ALA:C	0.41	2.40	9	1
1:A:1326:THR:HG23	1:A:1335:ARG:O	0.41	2.15	7	1
1:A:1267:ALA:HA	1:A:1270:LEU:HD11	0.41	1.91	9	1
1:A:1270:LEU:HD22	1:A:1403:VAL:HG22	0.41	1.92	10	1
1:A:1347:SER:HA	1:A:1397:VAL:HG21	0.41	1.93	3	1
1:A:1270:LEU:HG	1:A:1271:ARG:N	0.41	2.31	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:1387:LEU:O	1:A:1392:PRO:HB3	0.41	2.15	10	1
1:A:1280:TYR:CD2	1:A:1332:LEU:HD21	0.41	2.50	6	1
1:A:1279:LEU:HA	1:A:1313:VAL:HA	0.41	1.92	7	1
1:A:1299:SER:HA	1:A:1383:LEU:CD2	0.41	2.46	7	1
1:A:1388:ASP:HA	1:A:1389:PRO:HD3	0.41	1.75	7	1
1:A:1270:LEU:HD21	1:A:1403:VAL:HG11	0.41	1.92	7	1
1:A:1317:LYS:HE2	2:B:374:PHE:HE2	0.41	1.75	8	1
1:A:1271:ARG:O	2:B:377:ALA:HA	0.41	2.14	2	1
1:A:1289:LEU:HD22	1:A:1293:GLN:CD	0.41	2.40	3	1
1:A:1287:GLU:HA	1:A:1379:ASN:CG	0.41	2.41	8	1
1:A:1272:GLN:HB3	2:B:372:GLY:CA	0.41	2.46	1	1
1:A:1348:THR:HB	1:A:1394:GLY:HA2	0.41	1.92	8	1
1:A:1366:PHE:CD1	1:A:1384:PHE:HB2	0.41	2.51	9	1
1:A:1313:VAL:HG13	1:A:1387:LEU:HD22	0.41	1.92	2	1
1:A:1275:ALA:O	2:B:369:HIS:HB2	0.41	2.16	7	1
1:A:1387:LEU:HG	1:A:1388:ASP:H	0.40	1.77	4	1
1:A:1280:TYR:HA	1:A:1384:PHE:CD2	0.40	2.51	10	1
1:A:1266:ALA:HA	1:A:1269:LEU:HD12	0.40	1.93	3	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	143/147 (97%)	127±4 (89±3%)	12±3 (8±2%)	4±1 (3±1%)	6	40
2	B	9/14 (64%)	5±1 (54±10%)	3±1 (32±13%)	1±1 (13±10%)	0	5
All	All	1520/1610 (94%)	1321 (87%)	147 (10%)	52 (3%)	4	34

All 17 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	1309	PRO	8
1	A	1350	PRO	7
1	A	1333	PHE	6

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Mol	Chain	Res	Type	Models (Total)
1	A	1389	PRO	6
2	B	375	PRO	5
1	A	1291	GLY	4
2	B	374	PHE	4
2	B	372	GLY	2
1	A	1306	SER	2
1	A	1335	ARG	1
1	A	1287	GLU	1
1	A	1336	ARG	1
2	B	373	THR	1
1	A	1371	LYS	1
1	A	1276	CYS	1
1	A	1330	ARG	1
1	A	1388	ASP	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	120/124 (97%)	103±3 (86±2%)	17±3 (14±2%)	5	45
2	B	7/12 (58%)	6±1 (93±10%)	0±1 (7±10%)	15	64
All	All	1270/1360 (93%)	1098 (86%)	172 (14%)	6	45

All 65 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	1280	TYR	9
1	A	1295	VAL	8
1	A	1270	LEU	7
1	A	1351	GLN	7
1	A	1362	THR	7
1	A	1378	GLU	7
1	A	1400	ILE	7
1	A	1269	LEU	5
1	A	1303	LEU	5
1	A	1288	SER	5

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Mol	Chain	Res	Type	Models (Total)
1	A	1331	LYS	4
1	A	1337	HIS	4
1	A	1387	LEU	4
1	A	1332	LEU	4
1	A	1310	THR	4
1	A	1279	LEU	3
1	A	1334	PHE	3
1	A	1353	ARG	3
1	A	1408	ARG	3
1	A	1278	VAL	3
1	A	1283	SER	3
1	A	1348	THR	3
1	A	1366	PHE	3
1	A	1347	SER	3
1	A	1379	ASN	3
1	A	1287	GLU	3
1	A	1326	THR	3
1	A	1318	VAL	2
1	A	1397	VAL	2
1	A	1383	LEU	2
1	A	1391	GLN	2
1	A	1308	ARG	2
1	A	1363	SER	2
1	A	1407	GLN	2
1	A	1306	SER	2
1	A	1317	LYS	2
1	A	1333	PHE	2
2	B	370	LYS	2
1	A	1276	CYS	1
1	A	1377	TRP	1
1	A	1305	CYS	1
1	A	1386	GLU	1
2	B	376	LYS	1
1	A	1356	THR	1
1	A	1293	GLN	1
1	A	1381	CYS	1
1	A	1268	ASP	1
1	A	1341	ASN	1
1	A	1396	ILE	1
2	B	374	PHE	1
1	A	1319	SER	1
1	A	1323	ILE	1

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Mol	Chain	Res	Type	Models (Total)
1	A	1340	VAL	1
1	A	1352	ASP	1
1	A	1365	ILE	1
1	A	1315	HIS	1
1	A	1271	ARG	1
1	A	1325	LEU	1
1	A	1349	ASP	1
1	A	1354	ARG	1
2	B	369	HIS	1
1	A	1398	THR	1
1	A	1297	ARG	1
1	A	1324	THR	1
1	A	1405	LEU	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 78% for the well-defined parts and 75% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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

Total number of shifts	1609
Number of shifts mapped to atoms	1609
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	4

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	146	-0.20 ± 0.13	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	138	-0.06 ± 0.19	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	124	0.59 ± 0.24	Should be applied

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 78%, i.e. 1567 atoms were assigned a chemical shift out of a possible 2018. 0 out of 23 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	534/743 (72%)	271/300 (90%)	142/304 (47%)	121/139 (87%)
Sidechain	923/1115 (83%)	630/729 (86%)	286/340 (84%)	7/46 (15%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	110/160 (69%)	65/81 (80%)	43/73 (59%)	2/6 (33%)
Overall	1567/2018 (78%)	966/1110 (87%)	471/717 (66%)	130/191 (68%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 75%, i.e. 1609 atoms were assigned a chemical shift out of a possible 2132. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	548/788 (70%)	278/318 (87%)	146/322 (45%)	124/148 (84%)
Sidechain	951/1184 (80%)	649/773 (84%)	295/363 (81%)	7/48 (15%)
Aromatic	110/160 (69%)	65/81 (80%)	43/73 (59%)	2/6 (33%)
Overall	1609/2132 (75%)	992/1172 (85%)	484/758 (64%)	133/202 (66%)

7.1.4 Statistically unusual chemical shifts ⓘ

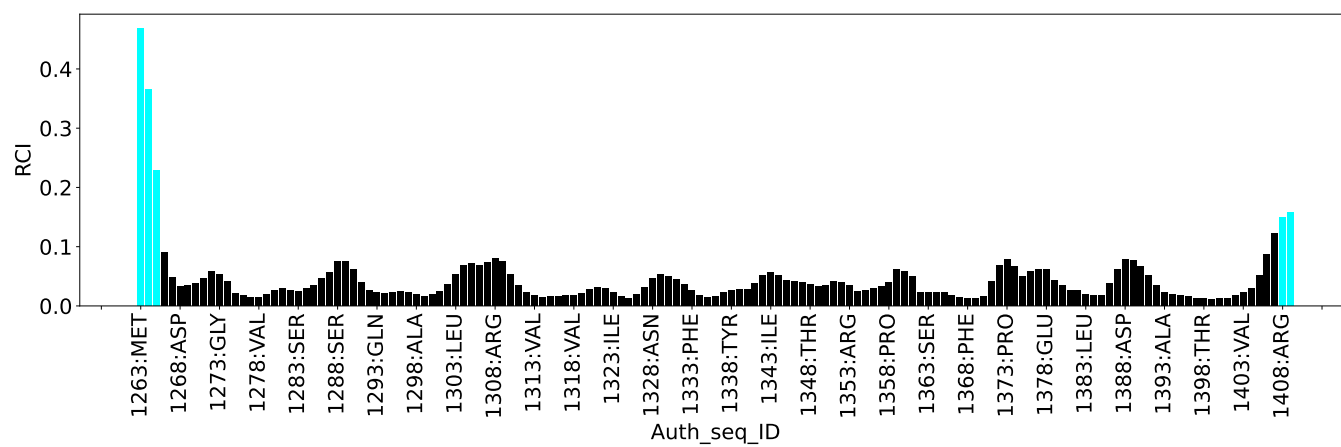
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	1281	LEU	HD21	-0.92	-0.65 – 2.13	-6.0
1	A	1281	LEU	HD22	-0.92	-0.65 – 2.13	-6.0
1	A	1281	LEU	HD23	-0.92	-0.65 – 2.13	-6.0
1	A	1291	GLY	HA2	2.00	2.15 – 5.77	-5.4

7.1.5 Random Coil Index (RCI) plots ⓘ

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:



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	1860
Intra-residue ($ i-j =0$)	374
Sequential ($ i-j =1$)	499
Medium range ($ i-j >1$ and $ i-j <5$)	274
Long range ($ i-j \geq 5$)	669
Inter-chain	44
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	165
Number of unmapped restraints	0
Number of restraints per residue	12.6
Number of long range restraints per residue ¹	4.2

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)	21.7	0.2
0.2-0.5 (Medium)	9.9	0.5
>0.5 (Large)	12.2	9.17

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)	11.5	4.97
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis ⓘ

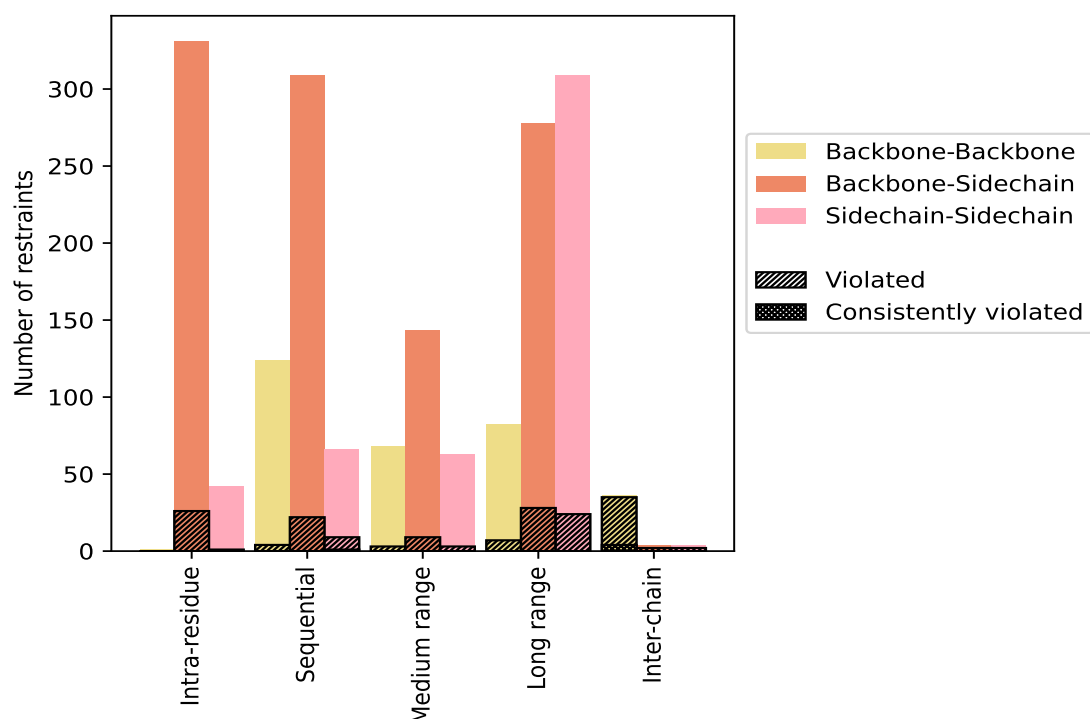
9.1 Summary of distance violations ⓘ

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 ($i-j =0$)	374	20.1	27	7.2	1.5	0	0.0	0.0
Backbone-Backbone	1	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	331	17.8	26	7.9	1.4	0	0.0	0.0
Sidechain-Sidechain	42	2.3	1	2.4	0.1	0	0.0	0.0
Sequential ($i-j =1$)	499	26.8	35	7.0	1.9	1	0.2	0.1
Backbone-Backbone	124	6.7	4	3.2	0.2	0	0.0	0.0
Backbone-Sidechain	309	16.6	22	7.1	1.2	0	0.0	0.0
Sidechain-Sidechain	66	3.5	9	13.6	0.5	1	1.5	0.1
Medium range ($i-j >1$ & $i-j <5$)	274	14.7	15	5.5	0.8	0	0.0	0.0
Backbone-Backbone	68	3.7	3	4.4	0.2	0	0.0	0.0
Backbone-Sidechain	143	7.7	9	6.3	0.5	0	0.0	0.0
Sidechain-Sidechain	63	3.4	3	4.8	0.2	0	0.0	0.0
Long range ($i-j \geq 5$)	669	36.0	59	8.8	3.2	0	0.0	0.0
Backbone-Backbone	82	4.4	7	8.5	0.4	0	0.0	0.0
Backbone-Sidechain	278	14.9	28	10.1	1.5	0	0.0	0.0
Sidechain-Sidechain	309	16.6	24	7.8	1.3	0	0.0	0.0
Inter-chain	44	2.4	39	88.6	2.1	4	9.1	0.2
Backbone-Backbone	36	1.9	35	97.2	1.9	4	11.1	0.2
Backbone-Sidechain	4	0.2	2	50.0	0.1	0	0.0	0.0
Sidechain-Sidechain	4	0.2	2	50.0	0.1	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	1860	100.0	175	9.4	9.4	5	0.3	0.3
Backbone-Backbone	311	16.7	49	15.8	2.6	4	1.3	0.2
Backbone-Sidechain	1065	57.3	87	8.2	4.7	0	0.0	0.0
Sidechain-Sidechain	484	26.0	39	8.1	2.1	1	0.2	0.1

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

9.1.1 Bar chart : Distribution of distance restraints and violations [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

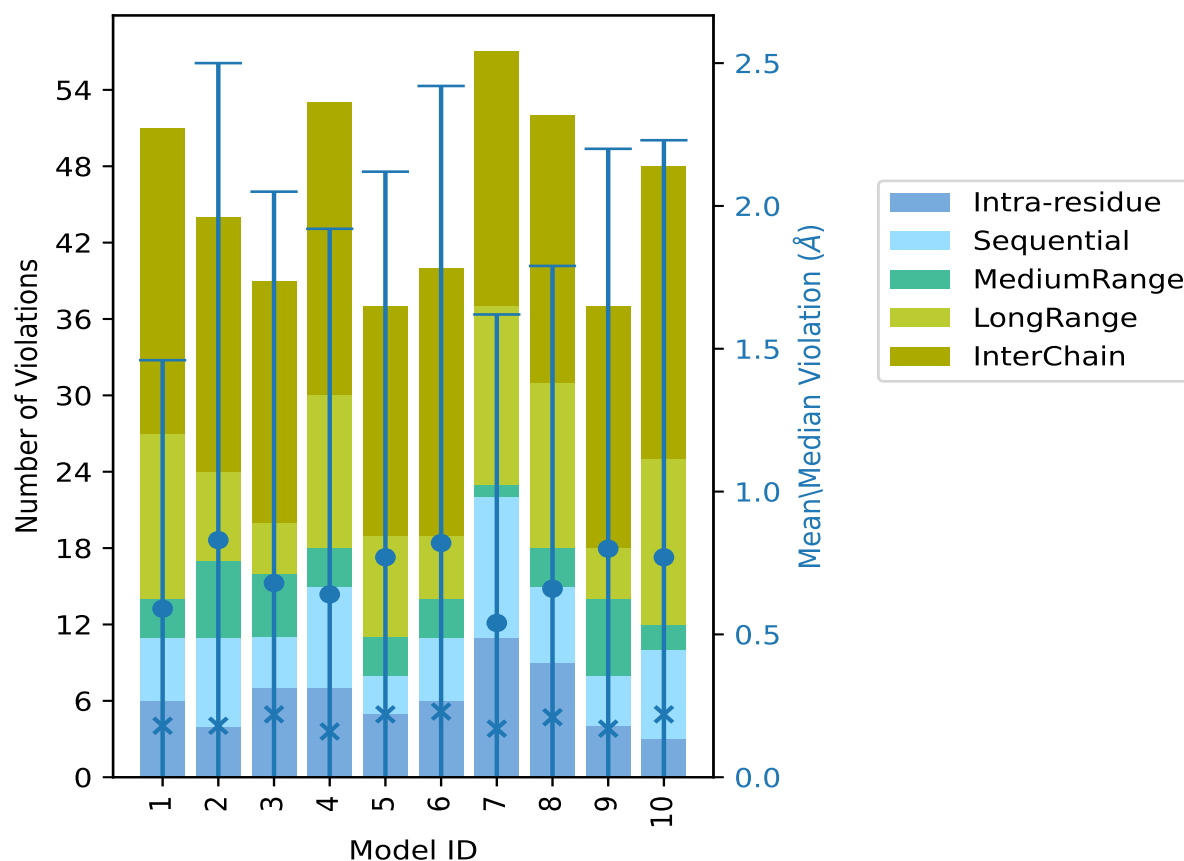
9.2 Distance violation statistics for each model [i](#)

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	6	5	3	13	24	51	0.59	4.3	0.87	0.18
2	4	7	6	7	20	44	0.83	9.17	1.67	0.18
3	7	4	5	4	19	39	0.68	6.89	1.37	0.22
4	7	8	3	12	23	53	0.64	6.46	1.28	0.16
5	5	3	3	8	18	37	0.77	5.85	1.35	0.22
6	6	5	3	5	21	40	0.82	8.4	1.6	0.23
7	11	11	1	14	20	57	0.54	6.27	1.08	0.17
8	9	6	3	13	21	52	0.66	5.06	1.13	0.21
9	4	4	6	4	19	37	0.8	5.4	1.4	0.17
10	3	7	2	13	23	48	0.77	6.94	1.46	0.22

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶Standard deviation

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



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

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

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1685(IR:347, SQ:464, MR:259, LR:610, IC:5) 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	%
13	23	9	41	7	93	1	10.0
7	6	1	10	3	27	2	20.0
3	5	2	4	4	18	3	30.0

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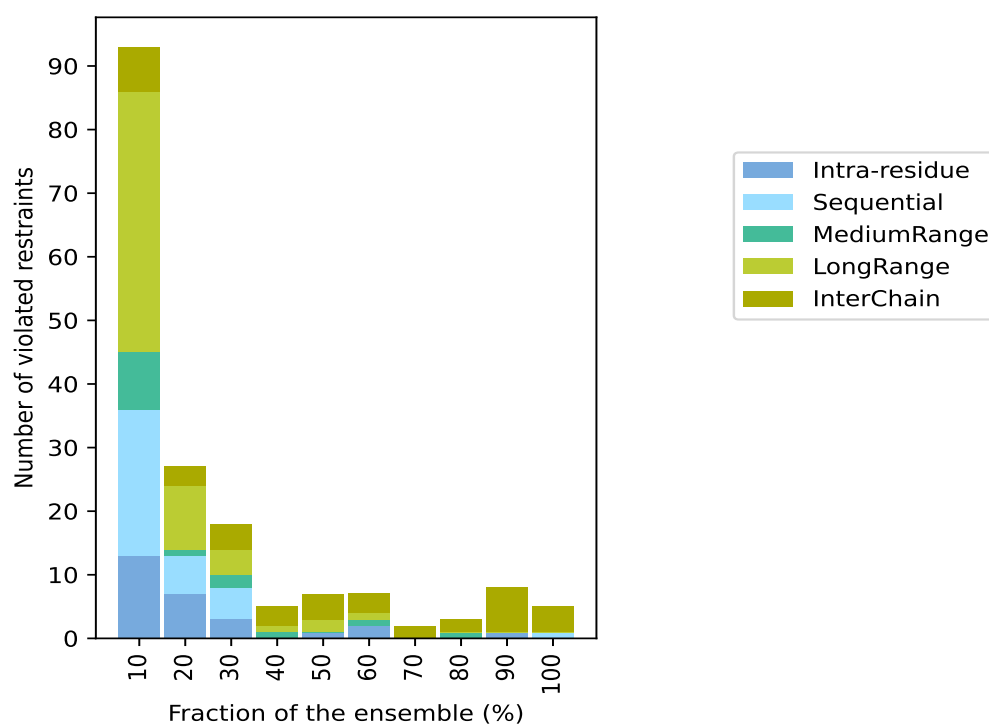
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	1	1	3	5	4	40.0
1	0	0	2	4	7	5	50.0
2	0	1	1	3	7	6	60.0
0	0	0	0	2	2	7	70.0
0	0	1	0	2	3	8	80.0
1	0	0	0	7	8	9	90.0
0	1	0	0	4	5	10	100.0

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

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

9.3.1 Bar graph : Distance violation statistics for the ensemble ⓘ

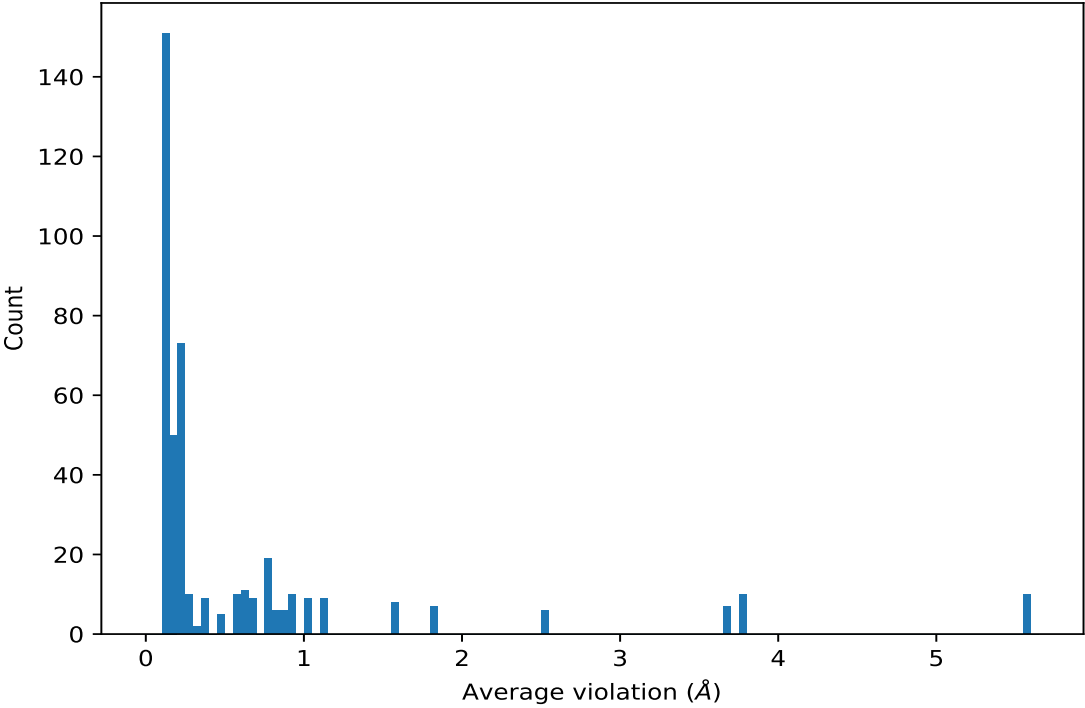


9.4 Most violated distance restraints in the ensemble ⓘ

9.4.1 Histogram : Distribution of mean distance violations ⓘ

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

in the ensemble



9.4.2 Table: Most violated distance restraints ⓘ

The following table provides the mean and the standard deviation of 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)
(1,21)	1:1395:A:ALA:HB1	2:370:B:LYS:HZ1	10	5.6	2.2	5.62
(1,21)	1:1395:A:ALA:HB1	2:371:B:PRO:HG3	10	5.6	2.2	5.62
(1,21)	1:1395:A:ALA:HB1	2:370:B:LYS:HZ3	10	5.6	2.2	5.62
(1,21)	1:1395:A:ALA:HB3	2:367:B:GLU:OE2	10	5.6	2.2	5.62
(1,21)	1:1395:A:ALA:HB3	2:367:B:GLU:HG3	10	5.6	2.2	5.62
(1,21)	1:1395:A:ALA:HB3	2:367:B:GLU:HG2	10	5.6	2.2	5.62
(1,21)	1:1395:A:ALA:HB3	2:367:B:GLU:HA	10	5.6	2.2	5.62
(1,21)	1:1395:A:ALA:HB3	2:367:B:GLU:O	10	5.6	2.2	5.62
(1,21)	1:1395:A:ALA:HB2	2:368:B:ASP:OD1	10	5.6	2.2	5.62
(1,21)	1:1395:A:ALA:HB2	2:367:B:GLU:HG2	10	5.6	2.2	5.62
(1,20)	1:1392:A:PRO:HD2	2:370:B:LYS:HE3	10	3.77	1.86	3.94
(1,20)	1:1392:A:PRO:HA	2:367:B:GLU:HG2	10	3.77	1.86	3.94
(1,20)	1:1392:A:PRO:HD3	2:368:B:ASP:OD2	10	3.77	1.86	3.94
(1,20)	1:1392:A:PRO:N	2:367:B:GLU:OE2	10	3.77	1.86	3.94
(1,20)	1:1392:A:PRO:HD3	2:367:B:GLU:HB3	10	3.77	1.86	3.94

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,20)	1:1392:A:PRO:N	2:367:B:GLU:HG2	10	3.77	1.86	3.94
(1,20)	1:1392:A:PRO:O	2:367:B:GLU:HB3	10	3.77	1.86	3.94
(1,20)	1:1392:A:PRO:O	2:367:B:GLU:HA	10	3.77	1.86	3.94
(1,20)	1:1392:A:PRO:HA	2:368:B:ASP:HB2	10	3.77	1.86	3.94
(1,20)	1:1392:A:PRO:HA	2:367:B:GLU:OE2	10	3.77	1.86	3.94
(1,23)	1:1405:A:LEU:C	2:380:B:ASN:HD22	10	3.68	2.21	4.12
(1,23)	1:1405:A:LEU:O	2:380:B:ASN:HD22	10	3.68	2.21	4.12
(1,23)	1:1405:A:LEU:C	2:379:B:THR:HG23	10	3.68	2.21	4.12
(1,23)	1:1405:A:LEU:N	2:379:B:THR:HG21	10	3.68	2.21	4.12
(1,23)	1:1405:A:LEU:N	2:379:B:THR:HG22	10	3.68	2.21	4.12
(1,23)	1:1405:A:LEU:HA	2:380:B:ASN:HD22	10	3.68	2.21	4.12
(1,23)	1:1405:A:LEU:N	2:378:B:LEU:HD21	10	3.68	2.21	4.12
(1,24)	1:1406:A:GLY:HA3	2:380:B:ASN:HD22	10	2.55	2.27	1.98
(1,24)	1:1406:A:GLY:HA2	2:380:B:ASN:HD22	10	2.55	2.27	1.98
(1,24)	1:1406:A:GLY:HA2	2:379:B:THR:HG23	10	2.55	2.27	1.98
(1,24)	1:1406:A:GLY:HA2	2:379:B:THR:HG21	10	2.55	2.27	1.98
(1,24)	1:1406:A:GLY:HA2	2:380:B:ASN:HD21	10	2.55	2.27	1.98
(1,24)	1:1406:A:GLY:HA2	2:378:B:LEU:HD21	10	2.55	2.27	1.98
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG21	10	0.15	0.03	0.15
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG22	10	0.15	0.03	0.15
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG23	10	0.15	0.03	0.15
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG21	10	0.15	0.03	0.15
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG22	10	0.15	0.03	0.15
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG23	10	0.15	0.03	0.15
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG21	10	0.15	0.03	0.15
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG22	10	0.15	0.03	0.15
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG23	10	0.15	0.03	0.15
(1,14)	1:1337:A:HIS:H	2:374:B:PHE:HZ	9	1.84	1.62	0.95
(1,14)	1:1337:A:HIS:HD1	2:374:B:PHE:HE1	9	1.84	1.62	0.95
(1,14)	1:1337:A:HIS:HD2	2:374:B:PHE:HE1	9	1.84	1.62	0.95
(1,14)	1:1337:A:HIS:H	2:374:B:PHE:HE2	9	1.84	1.62	0.95
(1,14)	1:1337:A:HIS:HB2	2:374:B:PHE:HZ	9	1.84	1.62	0.95
(1,14)	1:1337:A:HIS:HB3	2:376:B:LYS:HZ1	9	1.84	1.62	0.95
(1,14)	1:1337:A:HIS:HB3	2:374:B:PHE:HZ	9	1.84	1.62	0.95
(1,2)	1:1268:A:ASP:OD2	2:370:B:LYS:HZ2	9	1.58	0.78	1.4
(1,2)	1:1268:A:ASP:HA	2:379:B:THR:HG21	9	1.58	0.78	1.4
(1,2)	1:1268:A:ASP:O	2:371:B:PRO:HB2	9	1.58	0.78	1.4
(1,2)	1:1268:A:ASP:N	2:378:B:LEU:O	9	1.58	0.78	1.4
(1,2)	1:1268:A:ASP:HA	2:377:B:ALA:HB3	9	1.58	0.78	1.4
(1,2)	1:1268:A:ASP:OD2	2:371:B:PRO:HG3	9	1.58	0.78	1.4
(1,2)	1:1268:A:ASP:OD2	2:370:B:LYS:HZ3	9	1.58	0.78	1.4
(1,2)	1:1268:A:ASP:OD2	2:371:B:PRO:HG2	9	1.58	0.78	1.4

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1)	1:1267:A:ALA:HB1	2:379:B:THR:HG1	9	1.1	0.88	0.95
(1,1)	1:1267:A:ALA:HB2	2:379:B:THR:HG21	9	1.1	0.88	0.95
(1,1)	1:1267:A:ALA:HB2	2:379:B:THR:HG23	9	1.1	0.88	0.95
(1,1)	1:1267:A:ALA:HB1	2:379:B:THR:HA	9	1.1	0.88	0.95
(1,1)	1:1267:A:ALA:HB3	2:380:B:ASN:HB3	9	1.1	0.88	0.95
(1,1)	1:1267:A:ALA:HB1	2:379:B:THR:HG23	9	1.1	0.88	0.95
(1,1)	1:1267:A:ALA:HB3	2:380:B:ASN:OD1	9	1.1	0.88	0.95
(1,1)	1:1267:A:ALA:HB1	2:377:B:ALA:HB2	9	1.1	0.88	0.95
(1,1)	1:1267:A:ALA:O	2:378:B:LEU:HD23	9	1.1	0.88	0.95
(1,33)	2:375:B:PRO:HB3	1:1319:A:SER:HB3	9	0.86	0.66	0.65
(1,33)	2:375:B:PRO:HG3	1:1321:A:GLN:HG3	9	0.86	0.66	0.65
(1,33)	2:375:B:PRO:HD2	1:1319:A:SER:HG	9	0.86	0.66	0.65
(1,33)	2:375:B:PRO:HB3	1:1319:A:SER:HB2	9	0.86	0.66	0.65
(1,33)	2:375:B:PRO:HA	1:1272:A:GLN:O	9	0.86	0.66	0.65
(1,33)	2:375:B:PRO:O	1:1271:A:ARG:O	9	0.86	0.66	0.65
(1,15)	1:1387:A:LEU:HD22	2:367:B:GLU:OE2	9	0.78	0.43	0.74
(1,15)	1:1387:A:LEU:HD22	2:367:B:GLU:HG3	9	0.78	0.43	0.74
(1,15)	1:1387:A:LEU:HD11	2:367:B:GLU:HG2	9	0.78	0.43	0.74
(1,15)	1:1387:A:LEU:HD23	2:367:B:GLU:HB2	9	0.78	0.43	0.74
(1,15)	1:1387:A:LEU:HB3	2:369:B:HIS:HE1	9	0.78	0.43	0.74
(1,15)	1:1387:A:LEU:HD21	2:368:B:ASP:OD1	9	0.78	0.43	0.74
(1,15)	1:1387:A:LEU:O	2:367:B:GLU:HG3	9	0.78	0.43	0.74
(1,15)	1:1387:A:LEU:HB3	2:367:B:GLU:HG2	9	0.78	0.43	0.74
(1,15)	1:1387:A:LEU:HB2	2:367:B:GLU:OE1	9	0.78	0.43	0.74
(1,16)	1:1388:A:ASP:HA	2:367:B:GLU:HA	9	0.7	0.36	0.7
(1,16)	1:1388:A:ASP:C	2:367:B:GLU:HG2	9	0.7	0.36	0.7
(1,16)	1:1388:A:ASP:O	2:367:B:GLU:HB2	9	0.7	0.36	0.7
(1,16)	1:1388:A:ASP:O	2:367:B:GLU:HB3	9	0.7	0.36	0.7
(1,16)	1:1388:A:ASP:OD1	2:367:B:GLU:HG2	9	0.7	0.36	0.7
(1,16)	1:1388:A:ASP:HA	2:367:B:GLU:HB2	9	0.7	0.36	0.7
(1,16)	1:1388:A:ASP:O	2:368:B:ASP:HB2	9	0.7	0.36	0.7
(1,16)	1:1388:A:ASP:H	2:367:B:GLU:HG2	9	0.7	0.36	0.7
(1,16)	1:1388:A:ASP:HA	2:367:B:GLU:OE2	9	0.7	0.36	0.7
(1,10)	1:1319:A:SER:HB3	2:375:B:PRO:HB3	9	0.3	0.17	0.28
(1,10)	1:1319:A:SER:HB2	2:378:B:LEU:HD12	9	0.3	0.17	0.28
(1,10)	1:1319:A:SER:HG	2:374:B:PHE:HB3	9	0.3	0.17	0.28
(1,10)	1:1319:A:SER:HB2	2:375:B:PRO:HB3	9	0.3	0.17	0.28
(1,10)	1:1319:A:SER:HB3	2:374:B:PHE:CE1	9	0.3	0.17	0.28
(1,10)	1:1319:A:SER:OG	2:376:B:LYS:HE3	9	0.3	0.17	0.28
(1,10)	1:1319:A:SER:HB3	2:378:B:LEU:HD13	9	0.3	0.17	0.28
(1,366)	1:1375:A:SER:H	1:1375:A:SER:HB3	9	0.14	0.01	0.14
(1,34)	2:376:B:LYS:H	1:1321:A:GLN:HG3	8	1.03	0.77	0.96

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,34)	2:376:B:LYS:O	1:1271:A:ARG:O	8	1.03	0.77	0.96
(1,34)	2:376:B:LYS:O	1:1271:A:ARG:HA	8	1.03	0.77	0.96
(1,34)	2:376:B:LYS:HA	1:1271:A:ARG:HB2	8	1.03	0.77	0.96
(1,34)	2:376:B:LYS:HE3	1:1321:A:GLN:HG2	8	1.03	0.77	0.96
(1,30)	2:372:B:GLY:H	1:1275:A:ALA:HB3	8	0.64	0.21	0.7
(1,30)	2:372:B:GLY:HA2	1:1272:A:GLN:O	8	0.64	0.21	0.7
(1,30)	2:372:B:GLY:H	1:1275:A:ALA:H	8	0.64	0.21	0.7
(1,30)	2:372:B:GLY:HA2	1:1272:A:GLN:HB3	8	0.64	0.21	0.7
(1,30)	2:372:B:GLY:HA2	1:1272:A:GLN:HG3	8	0.64	0.21	0.7
(1,30)	2:372:B:GLY:HA2	1:1272:A:GLN:HE21	8	0.64	0.21	0.7
(1,63)	1:1349:A:ASP:H	1:1352:A:ASP:H	8	0.23	0.06	0.22
(1,28)	2:370:B:LYS:O	1:1275:A:ALA:HB3	7	0.78	0.35	0.69
(1,28)	2:370:B:LYS:O	1:1275:A:ALA:H	7	0.78	0.35	0.69
(1,28)	2:370:B:LYS:H	1:1276:A:CYS:SG	7	0.78	0.35	0.69
(1,28)	2:370:B:LYS:HZ3	1:1268:A:ASP:OD2	7	0.78	0.35	0.69
(1,28)	2:370:B:LYS:HA	1:1391:A:GLN:HE22	7	0.78	0.35	0.69
(1,7)	1:1276:A:CYS:HA	2:371:B:PRO:HG2	7	0.56	0.34	0.34
(1,7)	1:1276:A:CYS:HA	2:369:B:HIS:HB2	7	0.56	0.34	0.34
(1,7)	1:1276:A:CYS:SG	2:369:B:HIS:HA	7	0.56	0.34	0.34
(1,7)	1:1276:A:CYS:HG	2:368:B:ASP:OD1	7	0.56	0.34	0.34
(1,7)	1:1276:A:CYS:H	2:367:B:GLU:OE1	7	0.56	0.34	0.34
(1,7)	1:1276:A:CYS:HG	2:367:B:GLU:HG2	7	0.56	0.34	0.34
(1,22)	1:1403:A:VAL:HG13	2:379:B:THR:HG1	6	0.8	0.34	0.73
(1,22)	1:1403:A:VAL:O	2:380:B:ASN:O	6	0.8	0.34	0.73
(1,22)	1:1403:A:VAL:HG22	2:379:B:THR:HG21	6	0.8	0.34	0.73
(1,22)	1:1403:A:VAL:HB	2:380:B:ASN:HB2	6	0.8	0.34	0.73
(1,22)	1:1403:A:VAL:HG13	2:379:B:THR:OG1	6	0.8	0.34	0.73
(1,22)	1:1403:A:VAL:HG11	2:378:B:LEU:HD21	6	0.8	0.34	0.73
(1,13)	1:1324:A:THR:OG1	2:374:B:PHE:HE2	6	0.36	0.15	0.32
(1,13)	1:1324:A:THR:HG1	2:374:B:PHE:HZ	6	0.36	0.15	0.32
(1,13)	1:1324:A:THR:HG23	2:374:B:PHE:HZ	6	0.36	0.15	0.32
(1,13)	1:1324:A:THR:HG1	2:374:B:PHE:HE2	6	0.36	0.15	0.32
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG21	6	0.15	0.03	0.15
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG22	6	0.15	0.03	0.15
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG23	6	0.15	0.03	0.15
(1,1297)	1:1306:A:SER:H	1:1306:A:SER:HB3	6	0.15	0.02	0.15
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD2	6	0.14	0.02	0.14
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD3	6	0.14	0.02	0.14
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD2	6	0.14	0.02	0.14
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD3	6	0.14	0.02	0.14
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD2	6	0.14	0.02	0.14
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD3	6	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD1	6	0.14	0.04	0.12
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD2	6	0.14	0.04	0.12
(1,1271)	1:1303:A:LEU:HD21	1:1305:A:CYS:H	6	0.13	0.02	0.12
(1,1271)	1:1303:A:LEU:HD22	1:1305:A:CYS:H	6	0.13	0.02	0.12
(1,1271)	1:1303:A:LEU:HD23	1:1305:A:CYS:H	6	0.13	0.02	0.12
(1,19)	1:1391:A:GLN:HE22	2:371:B:PRO:HD2	5	0.91	0.46	0.93
(1,19)	1:1391:A:GLN:OE1	2:371:B:PRO:HG3	5	0.91	0.46	0.93
(1,19)	1:1391:A:GLN:HE21	2:367:B:GLU:N	5	0.91	0.46	0.93
(1,19)	1:1391:A:GLN:OE1	2:367:B:GLU:O	5	0.91	0.46	0.93
(1,19)	1:1391:A:GLN:HE21	2:368:B:ASP:OD1	5	0.91	0.46	0.93
(1,8)	1:1277:A:SER:HG	2:367:B:GLU:HG2	5	0.91	0.58	0.76
(1,8)	1:1277:A:SER:HB2	2:367:B:GLU:HB2	5	0.91	0.58	0.76
(1,8)	1:1277:A:SER:HB2	2:367:B:GLU:HG3	5	0.91	0.58	0.76
(1,8)	1:1277:A:SER:H	2:368:B:ASP:HB2	5	0.91	0.58	0.76
(1,8)	1:1277:A:SER:O	2:369:B:HIS:HE1	5	0.91	0.58	0.76
(1,31)	2:373:B:THR:N	1:1272:A:GLN:O	5	0.76	0.39	0.74
(1,31)	2:373:B:THR:HA	1:1272:A:GLN:O	5	0.76	0.39	0.74
(1,31)	2:373:B:THR:HG23	1:1275:A:ALA:HB2	5	0.76	0.39	0.74
(1,31)	2:373:B:THR:O	1:1272:A:GLN:HB3	5	0.76	0.39	0.74
(1,31)	2:373:B:THR:H	1:1272:A:GLN:O	5	0.76	0.39	0.74
(1,18)	1:1390:A:ASP:HB2	2:368:B:ASP:OD1	5	0.64	0.22	0.72
(1,18)	1:1390:A:ASP:HB3	2:367:B:GLU:HG2	5	0.64	0.22	0.72
(1,18)	1:1390:A:ASP:H	2:367:B:GLU:O	5	0.64	0.22	0.72
(1,18)	1:1390:A:ASP:H	2:368:B:ASP:HA	5	0.64	0.22	0.72
(1,18)	1:1390:A:ASP:H	2:368:B:ASP:HB3	5	0.64	0.22	0.72
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB2	5	0.21	0.05	0.24
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB3	5	0.21	0.05	0.24
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB2	5	0.17	0.05	0.14
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB3	5	0.17	0.05	0.14
(1,856)	1:1282:A:THR:H	1:1385:A:ALA:H	5	0.15	0.04	0.17
(1,27)	2:369:B:HIS:H	1:1391:A:GLN:OE1	4	1.02	0.29	1.12
(1,27)	2:369:B:HIS:O	1:1390:A:ASP:OD2	4	1.02	0.29	1.12
(1,27)	2:369:B:HIS:O	1:1391:A:GLN:HE22	4	1.02	0.29	1.12
(1,27)	2:369:B:HIS:HB2	1:1315:A:HIS:HE1	4	1.02	0.29	1.12
(1,3)	1:1270:A:LEU:HD11	2:379:B:THR:HA	4	0.57	0.6	0.26
(1,3)	1:1270:A:LEU:O	2:378:B:LEU:HD11	4	0.57	0.6	0.26
(1,3)	1:1270:A:LEU:HB2	2:378:B:LEU:HB2	4	0.57	0.6	0.26
(1,3)	1:1270:A:LEU:HD12	2:379:B:THR:OG1	4	0.57	0.6	0.26
(1,9)	1:1317:A:LYS:HB3	2:374:B:PHE:HD2	4	0.37	0.18	0.34
(1,9)	1:1317:A:LYS:HD2	2:374:B:PHE:HB2	4	0.37	0.18	0.34
(1,9)	1:1317:A:LYS:HG2	2:374:B:PHE:HD2	4	0.37	0.18	0.34
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG11	4	0.18	0.02	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG12	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG13	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG21	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG22	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG23	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG11	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG12	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG13	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG21	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG22	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG23	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG11	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG12	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG13	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG21	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG22	4	0.18	0.02	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG23	4	0.18	0.02	0.17
(1,809)	1:1281:A:LEU:HA	1:1312:A:ALA:H	4	0.17	0.05	0.17
(1,6)	1:1275:A:ALA:HB2	2:367:B:GLU:OE2	3	0.49	0.24	0.41
(1,6)	1:1275:A:ALA:H	2:372:B:GLY:H	3	0.49	0.24	0.41
(1,6)	1:1275:A:ALA:HB2	2:373:B:THR:HG23	3	0.49	0.24	0.41
(1,32)	2:374:B:PHE:HD2	1:1319:A:SER:OG	3	0.28	0.11	0.23
(1,32)	2:374:B:PHE:HB2	1:1317:A:LYS:HD2	3	0.28	0.11	0.23
(1,32)	2:374:B:PHE:HD2	1:1317:A:LYS:HG2	3	0.28	0.11	0.23
(1,42)	1:1348:A:THR:HG21	1:1349:A:ASP:H	3	0.24	0.05	0.25
(1,42)	1:1348:A:THR:HG22	1:1349:A:ASP:H	3	0.24	0.05	0.25
(1,42)	1:1348:A:THR:HG23	1:1349:A:ASP:H	3	0.24	0.05	0.25
(1,439)	1:1386:A:GLU:H	1:1386:A:GLU:HG2	3	0.24	0.02	0.25
(1,439)	1:1386:A:GLU:H	1:1386:A:GLU:HG3	3	0.24	0.02	0.25
(1,1375)	1:1313:A:VAL:HG11	1:1387:A:LEU:HA	3	0.21	0.05	0.19
(1,1375)	1:1313:A:VAL:HG12	1:1387:A:LEU:HA	3	0.21	0.05	0.19
(1,1375)	1:1313:A:VAL:HG13	1:1387:A:LEU:HA	3	0.21	0.05	0.19
(1,1375)	1:1313:A:VAL:HG21	1:1387:A:LEU:HA	3	0.21	0.05	0.19
(1,1375)	1:1313:A:VAL:HG22	1:1387:A:LEU:HA	3	0.21	0.05	0.19
(1,1375)	1:1313:A:VAL:HG23	1:1387:A:LEU:HA	3	0.21	0.05	0.19
(1,245)	1:1365:A:ILE:HG12	1:1366:A:PHE:H	3	0.17	0.04	0.15
(1,245)	1:1365:A:ILE:HG13	1:1366:A:PHE:H	3	0.17	0.04	0.15
(1,694)	1:1272:A:GLN:HB2	1:1273:A:GLY:H	3	0.17	0.04	0.18
(1,694)	1:1272:A:GLN:HB3	1:1273:A:GLY:H	3	0.17	0.04	0.18
(1,748)	1:1279:A:LEU:HD21	1:1280:A:TYR:H	3	0.16	0.02	0.17
(1,748)	1:1279:A:LEU:HD22	1:1280:A:TYR:H	3	0.16	0.02	0.17
(1,748)	1:1279:A:LEU:HD23	1:1280:A:TYR:H	3	0.16	0.02	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,590)	1:1407:A:GLN:HB3	1:1408:A:ARG:H	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG11	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG12	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG13	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG21	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG22	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG23	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG11	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG12	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG13	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG21	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG22	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG23	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG11	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG12	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG13	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG21	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG22	3	0.16	0.03	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG23	3	0.16	0.03	0.15
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD11	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD12	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD13	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD21	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD22	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD23	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD11	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD12	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD13	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD21	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD22	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD23	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD11	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD12	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD13	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD21	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD22	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD23	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD11	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD12	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD13	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD21	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD22	3	0.14	0.03	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD23	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD11	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD12	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD13	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD21	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD22	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD23	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD11	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD12	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD13	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD21	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD22	3	0.14	0.03	0.13
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD23	3	0.14	0.03	0.13
(1,674)	1:1270:A:LEU:HG	1:1272:A:GLN:H	3	0.13	0.02	0.12
(1,1851)	1:1272:A:GLN:HG2	2:371:B:PRO:HA	3	0.13	0.02	0.13
(1,1851)	1:1272:A:GLN:HG3	2:371:B:PRO:HA	3	0.13	0.02	0.13
(1,1125)	1:1295:A:VAL:HG11	1:1345:A:PHE:HE1	3	0.13	0.01	0.13
(1,1125)	1:1295:A:VAL:HG11	1:1345:A:PHE:HE2	3	0.13	0.01	0.13
(1,1125)	1:1295:A:VAL:HG12	1:1345:A:PHE:HE1	3	0.13	0.01	0.13
(1,1125)	1:1295:A:VAL:HG12	1:1345:A:PHE:HE2	3	0.13	0.01	0.13
(1,1125)	1:1295:A:VAL:HG13	1:1345:A:PHE:HE1	3	0.13	0.01	0.13
(1,1125)	1:1295:A:VAL:HG13	1:1345:A:PHE:HE2	3	0.13	0.01	0.13
(1,1125)	1:1295:A:VAL:HG21	1:1345:A:PHE:HE1	3	0.13	0.01	0.13
(1,1125)	1:1295:A:VAL:HG21	1:1345:A:PHE:HE2	3	0.13	0.01	0.13
(1,1125)	1:1295:A:VAL:HG22	1:1345:A:PHE:HE1	3	0.13	0.01	0.13
(1,1125)	1:1295:A:VAL:HG22	1:1345:A:PHE:HE2	3	0.13	0.01	0.13
(1,1125)	1:1295:A:VAL:HG23	1:1345:A:PHE:HE1	3	0.13	0.01	0.13
(1,1125)	1:1295:A:VAL:HG23	1:1345:A:PHE:HE2	3	0.13	0.01	0.13
(1,82)	1:1351:A:GLN:HB2	1:1353:A:ARG:H	3	0.12	0.02	0.13
(1,82)	1:1351:A:GLN:HB3	1:1353:A:ARG:H	3	0.12	0.02	0.13
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD21	3	0.12	0.02	0.13
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD22	3	0.12	0.02	0.13
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD23	3	0.12	0.02	0.13
(1,1794)	1:1345:A:PHE:H	1:1368:A:PHE:HB2	3	0.12	0.02	0.11
(1,1794)	1:1345:A:PHE:H	1:1368:A:PHE:HB3	3	0.12	0.02	0.11
(1,61)	1:1349:A:ASP:H	1:1349:A:ASP:HB2	3	0.11	0.01	0.1
(1,26)	2:368:B:ASP:O	1:1390:A:ASP:HB3	2	0.47	0.02	0.47
(1,26)	2:368:B:ASP:HA	1:1390:A:ASP:H	2	0.47	0.02	0.47
(1,5)	1:1272:A:GLN:HA	2:377:B:ALA:HA	2	0.38	0.12	0.38
(1,5)	1:1272:A:GLN:HB3	2:372:B:GLY:HA2	2	0.38	0.12	0.38
(1,12)	1:1321:A:GLN:H	2:378:B:LEU:HD13	2	0.34	0.02	0.34
(1,12)	1:1321:A:GLN:HG2	2:378:B:LEU:HD23	2	0.34	0.02	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,624)	1:1264:A:SER:H	1:1264:A:SER:HB2	2	0.24	0.0	0.24
(1,624)	1:1264:A:SER:H	1:1264:A:SER:HB3	2	0.24	0.0	0.24
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD11	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD12	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD13	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD21	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD22	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD23	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD11	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD12	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD13	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD21	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD22	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD23	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD11	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD12	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD13	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD21	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD22	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD23	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD11	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD12	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD13	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD21	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD22	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD23	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD11	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD12	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD13	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD21	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD22	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD23	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD11	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD12	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD13	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD21	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD22	2	0.24	0.05	0.24
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD23	2	0.24	0.05	0.24
(1,1255)	1:1303:A:LEU:HD11	1:1353:A:ARG:HB2	2	0.23	0.01	0.23
(1,1255)	1:1303:A:LEU:HD11	1:1353:A:ARG:HB3	2	0.23	0.01	0.23
(1,1255)	1:1303:A:LEU:HD12	1:1353:A:ARG:HB2	2	0.23	0.01	0.23
(1,1255)	1:1303:A:LEU:HD12	1:1353:A:ARG:HB3	2	0.23	0.01	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1255)	1:1303:A:LEU:HD13	1:1353:A:ARG:HB2	2	0.23	0.01	0.23
(1,1255)	1:1303:A:LEU:HD13	1:1353:A:ARG:HB3	2	0.23	0.01	0.23
(1,92)	1:1353:A:ARG:HA	1:1353:A:ARG:HD3	2	0.21	0.05	0.21
(1,796)	1:1280:A:TYR:H	1:1280:A:TYR:HE1	2	0.21	0.02	0.21
(1,796)	1:1280:A:TYR:H	1:1280:A:TYR:HE2	2	0.21	0.02	0.21
(1,1546)	1:1325:A:LEU:HD11	1:1326:A:THR:H	2	0.2	0.04	0.2
(1,1546)	1:1325:A:LEU:HD12	1:1326:A:THR:H	2	0.2	0.04	0.2
(1,1546)	1:1325:A:LEU:HD13	1:1326:A:THR:H	2	0.2	0.04	0.2
(1,1546)	1:1325:A:LEU:HD21	1:1326:A:THR:H	2	0.2	0.04	0.2
(1,1546)	1:1325:A:LEU:HD22	1:1326:A:THR:H	2	0.2	0.04	0.2
(1,1546)	1:1325:A:LEU:HD23	1:1326:A:THR:H	2	0.2	0.04	0.2
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD11	2	0.2	0.08	0.2
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD12	2	0.2	0.08	0.2
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD13	2	0.2	0.08	0.2
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD21	2	0.2	0.08	0.2
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD22	2	0.2	0.08	0.2
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD23	2	0.2	0.08	0.2
(1,1473)	1:1321:A:GLN:H	1:1321:A:GLN:HG2	2	0.18	0.0	0.18
(1,1473)	1:1321:A:GLN:H	1:1321:A:GLN:HG3	2	0.18	0.0	0.18
(1,615)	1:1408:A:ARG:H	1:1408:A:ARG:HD2	2	0.16	0.01	0.16
(1,1549)	1:1325:A:LEU:HD11	1:1336:A:ARG:H	2	0.15	0.0	0.15
(1,1549)	1:1325:A:LEU:HD12	1:1336:A:ARG:H	2	0.15	0.0	0.15
(1,1549)	1:1325:A:LEU:HD13	1:1336:A:ARG:H	2	0.15	0.0	0.15
(1,1549)	1:1325:A:LEU:HD21	1:1336:A:ARG:H	2	0.15	0.0	0.15
(1,1549)	1:1325:A:LEU:HD22	1:1336:A:ARG:H	2	0.15	0.0	0.15
(1,1549)	1:1325:A:LEU:HD23	1:1336:A:ARG:H	2	0.15	0.0	0.15
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG11	2	0.14	0.01	0.14
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG12	2	0.14	0.01	0.14
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG13	2	0.14	0.01	0.14
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG21	2	0.14	0.01	0.14
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG22	2	0.14	0.01	0.14
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG23	2	0.14	0.01	0.14
(1,254)	1:1366:A:PHE:HA	1:1397:A:VAL:HG11	2	0.13	0.01	0.13
(1,254)	1:1366:A:PHE:HA	1:1397:A:VAL:HG12	2	0.13	0.01	0.13
(1,254)	1:1366:A:PHE:HA	1:1397:A:VAL:HG13	2	0.13	0.01	0.13
(1,450)	1:1389:A:PRO:HG2	1:1390:A:ASP:H	2	0.13	0.02	0.13
(1,450)	1:1389:A:PRO:HG3	1:1390:A:ASP:H	2	0.13	0.02	0.13
(1,627)	1:1265:A:THR:H	1:1265:A:THR:HG21	2	0.13	0.03	0.13
(1,627)	1:1265:A:THR:H	1:1265:A:THR:HG22	2	0.13	0.03	0.13
(1,627)	1:1265:A:THR:H	1:1265:A:THR:HG23	2	0.13	0.03	0.13
(1,867)	1:1283:A:SER:H	1:1382:A:HIS:HB2	2	0.12	0.01	0.12
(1,867)	1:1283:A:SER:H	1:1382:A:HIS:HB3	2	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1486)	1:1322:A:GLY:H	1:1340:A:VAL:HB	2	0.12	0.01	0.12
(1,1291)	1:1305:A:CYS:HB2	1:1306:A:SER:H	2	0.12	0.02	0.12
(1,203)	1:1360:A:GLY:H	1:1361:A:THR:HG21	2	0.12	0.0	0.12
(1,203)	1:1360:A:GLY:H	1:1361:A:THR:HG22	2	0.12	0.0	0.12
(1,203)	1:1360:A:GLY:H	1:1361:A:THR:HG23	2	0.12	0.0	0.12
(1,567)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD21	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD22	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD23	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD21	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD22	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD23	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD21	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD22	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD23	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD21	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD22	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD23	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD21	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD22	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD23	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD21	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD22	2	0.12	0.01	0.12
(1,567)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD23	2	0.12	0.01	0.12
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG11	2	0.12	0.02	0.12
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG12	2	0.12	0.02	0.12
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG13	2	0.12	0.02	0.12
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG21	2	0.12	0.02	0.12
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG22	2	0.12	0.02	0.12
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG23	2	0.12	0.02	0.12
(1,90)	1:1352:A:ASP:H	1:1353:A:ARG:HG2	2	0.11	0.0	0.11
(1,90)	1:1352:A:ASP:H	1:1353:A:ARG:HG3	2	0.11	0.0	0.11
(1,1238)	1:1302:A:ALA:HB1	1:1383:A:LEU:HD11	2	0.11	0.0	0.11
(1,1238)	1:1302:A:ALA:HB1	1:1383:A:LEU:HD12	2	0.11	0.0	0.11
(1,1238)	1:1302:A:ALA:HB1	1:1383:A:LEU:HD13	2	0.11	0.0	0.11
(1,1238)	1:1302:A:ALA:HB2	1:1383:A:LEU:HD11	2	0.11	0.0	0.11
(1,1238)	1:1302:A:ALA:HB2	1:1383:A:LEU:HD12	2	0.11	0.0	0.11
(1,1238)	1:1302:A:ALA:HB2	1:1383:A:LEU:HD13	2	0.11	0.0	0.11
(1,1238)	1:1302:A:ALA:HB3	1:1383:A:LEU:HD11	2	0.11	0.0	0.11
(1,1238)	1:1302:A:ALA:HB3	1:1383:A:LEU:HD12	2	0.11	0.0	0.11
(1,1238)	1:1302:A:ALA:HB3	1:1383:A:LEU:HD13	2	0.11	0.0	0.11
(1,64)	1:1349:A:ASP:H	1:1367:A:GLY:H	2	0.11	0.0	0.11
(1,1214)	1:1300:A:SER:HA	1:1303:A:LEU:HD21	2	0.11	0.0	0.11

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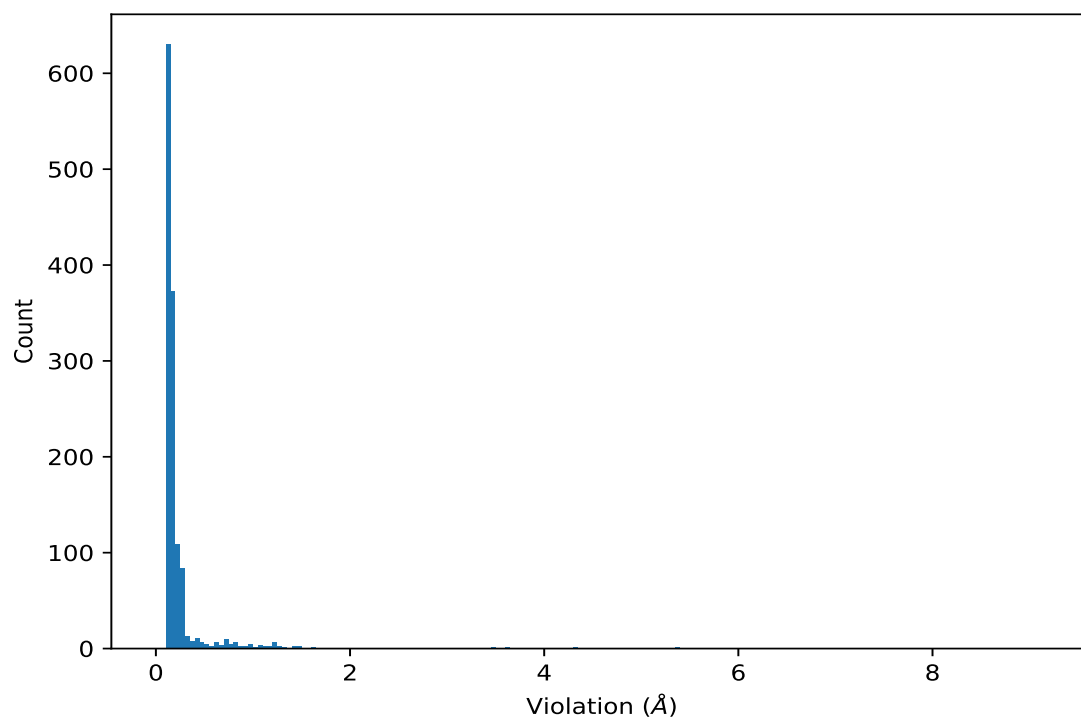
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1214)	1:1300:A:SER:HA	1:1303:A:LEU:HD22	2	0.11	0.0	0.11
(1,1214)	1:1300:A:SER:HA	1:1303:A:LEU:HD23	2	0.11	0.0	0.11

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)
(1,21)	1:1395:A:ALA:HB1	2:371:B:PRO:HG3	2	9.17
(1,21)	1:1395:A:ALA:HB3	2:367:B:GLU:HG2	6	8.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,23)	1:1405:A:LEU:N	2:378:B:LEU:HD21	10	6.94
(1,21)	1:1395:A:ALA:HB1	2:370:B:LYS:HZ3	3	6.89
(1,24)	1:1406:A:GLY:HA2	2:378:B:LEU:HD21	10	6.82
(1,20)	1:1392:A:PRO:HA	2:367:B:GLU:HG2	2	6.64
(1,21)	1:1395:A:ALA:HB3	2:367:B:GLU:OE2	4	6.46
(1,23)	1:1405:A:LEU:N	2:379:B:THR:HG21	7	6.27
(1,21)	1:1395:A:ALA:HB3	2:367:B:GLU:HG3	5	5.85
(1,20)	1:1392:A:PRO:N	2:367:B:GLU:HG2	6	5.84
(1,21)	1:1395:A:ALA:HB2	2:368:B:ASP:OD1	9	5.4
(1,24)	1:1406:A:GLY:HA2	2:379:B:THR:HG21	7	5.38
(1,20)	1:1392:A:PRO:HD3	2:368:B:ASP:OD2	3	5.36
(1,23)	1:1405:A:LEU:C	2:379:B:THR:HG23	5	5.1
(1,21)	1:1395:A:ALA:HB3	2:367:B:GLU:O	8	5.06
(1,23)	1:1405:A:LEU:HA	2:380:B:ASN:HD22	9	5.01
(1,23)	1:1405:A:LEU:N	2:379:B:THR:HG22	8	4.93
(1,20)	1:1392:A:PRO:N	2:367:B:GLU:OE2	4	4.59
(1,14)	1:1337:A:HIS:H	2:374:B:PHE:HE2	4	4.45
(1,24)	1:1406:A:GLY:HA3	2:380:B:ASN:HD22	9	4.34
(1,14)	1:1337:A:HIS:H	2:374:B:PHE:HZ	1	4.3
(1,20)	1:1392:A:PRO:HA	2:368:B:ASP:HB2	9	3.98
(1,20)	1:1392:A:PRO:O	2:367:B:GLU:HA	8	3.9
(1,21)	1:1395:A:ALA:HB2	2:367:B:GLU:HG2	10	3.64
(1,21)	1:1395:A:ALA:HB1	2:370:B:LYS:HZ1	1	3.62
(1,20)	1:1392:A:PRO:HD3	2:367:B:GLU:HB3	5	3.56
(1,14)	1:1337:A:HIS:HB2	2:374:B:PHE:HZ	6	3.49
(1,1)	1:1267:A:ALA:O	2:378:B:LEU:HD23	10	3.45
(1,24)	1:1406:A:GLY:HA2	2:380:B:ASN:HD21	8	3.41
(1,23)	1:1405:A:LEU:C	2:380:B:ASN:HD22	4	3.31
(1,2)	1:1268:A:ASP:N	2:378:B:LEU:O	4	3.1
(1,24)	1:1406:A:GLY:HA2	2:379:B:THR:HG23	5	3.02
(1,23)	1:1405:A:LEU:C	2:380:B:ASN:HD22	3	2.85
(1,34)	2:376:B:LYS:H	1:1321:A:GLN:HG3	1	2.73
(1,2)	1:1268:A:ASP:HA	2:379:B:THR:HG21	2	2.66
(1,33)	2:375:B:PRO:HG3	1:1321:A:GLN:HG3	2	2.24
(1,8)	1:1277:A:SER:HG	2:367:B:GLU:HG2	1	2.0
(1,2)	1:1268:A:ASP:HA	2:377:B:ALA:HB3	6	1.79
(1,33)	2:375:B:PRO:HD2	1:1319:A:SER:HG	7	1.68
(1,15)	1:1387:A:LEU:HB3	2:367:B:GLU:HG2	8	1.61
(1,3)	1:1270:A:LEU:O	2:378:B:LEU:HD11	2	1.61
(1,2)	1:1268:A:ASP:O	2:371:B:PRO:HB2	3	1.56
(1,19)	1:1391:A:GLN:OE1	2:371:B:PRO:HG3	2	1.51
(1,31)	2:373:B:THR:N	1:1272:A:GLN:O	1	1.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,20)	1:1392:A:PRO:HD2	2:370:B:LYS:HE3	1	1.48
(1,21)	1:1395:A:ALA:HB3	2:367:B:GLU:HA	7	1.47
(1,22)	1:1403:A:VAL:HG13	2:379:B:THR:HG1	5	1.43
(1,34)	2:376:B:LYS:HE3	1:1321:A:GLN:HG2	10	1.41
(1,2)	1:1268:A:ASP:O	2:371:B:PRO:HB2	8	1.4
(1,19)	1:1391:A:GLN:HE21	2:367:B:GLU:N	6	1.32
(1,14)	1:1337:A:HIS:HB3	2:376:B:LYS:HZ1	8	1.31
(1,27)	2:369:B:HIS:O	1:1390:A:ASP:OD2	1	1.29
(1,16)	1:1388:A:ASP:HA	2:367:B:GLU:OE2	10	1.27
(1,34)	2:376:B:LYS:O	1:1271:A:ARG:O	7	1.25
(1,15)	1:1387:A:LEU:HB3	2:369:B:HIS:HE1	5	1.23
(1,27)	2:369:B:HIS:O	1:1391:A:GLN:HE22	10	1.22
(1,20)	1:1392:A:PRO:O	2:367:B:GLU:HB3	7	1.22
(1,1)	1:1267:A:ALA:HB1	2:379:B:THR:HG1	1	1.22
(1,28)	2:370:B:LYS:HZ3	1:1268:A:ASP:OD2	9	1.21
(1,28)	2:370:B:LYS:HA	1:1391:A:GLN:HE22	10	1.21
(1,2)	1:1268:A:ASP:OD2	2:370:B:LYS:HZ3	9	1.21
(1,1)	1:1267:A:ALA:HB3	2:380:B:ASN:HB3	5	1.18
(1,34)	2:376:B:LYS:O	1:1271:A:ARG:O	3	1.17
(1,2)	1:1268:A:ASP:OD2	2:371:B:PRO:HG3	7	1.16
(1,20)	1:1392:A:PRO:HA	2:367:B:GLU:OE2	10	1.14
(1,16)	1:1388:A:ASP:C	2:367:B:GLU:HG2	2	1.13
(1,7)	1:1276:A:CYS:HA	2:371:B:PRO:HG2	1	1.1
(1,7)	1:1276:A:CYS:HG	2:368:B:ASP:OD1	6	1.08
(1,28)	2:370:B:LYS:O	1:1275:A:ALA:H	4	1.06
(1,23)	1:1405:A:LEU:O	2:380:B:ASN:HD22	2	1.06
(1,15)	1:1387:A:LEU:HD21	2:368:B:ASP:OD1	6	1.05
(1,33)	2:375:B:PRO:O	1:1271:A:ARG:O	9	1.01
(1,27)	2:369:B:HIS:H	1:1391:A:GLN:OE1	8	1.01
(1,1)	1:1267:A:ALA:HB1	2:377:B:ALA:HB2	9	0.99
(1,33)	2:375:B:PRO:O	1:1271:A:ARG:O	6	0.97
(1,22)	1:1403:A:VAL:O	2:380:B:ASN:O	6	0.95
(1,14)	1:1337:A:HIS:HD1	2:374:B:PHE:HE1	2	0.95
(1,1)	1:1267:A:ALA:HB3	2:380:B:ASN:OD1	8	0.95
(1,24)	1:1406:A:GLY:HA3	2:380:B:ASN:HD22	2	0.94
(1,19)	1:1391:A:GLN:OE1	2:367:B:GLU:O	8	0.93
(1,16)	1:1388:A:ASP:O	2:367:B:GLU:HB3	4	0.91
(1,23)	1:1405:A:LEU:C	2:380:B:ASN:HD22	1	0.89
(1,30)	2:372:B:GLY:HA2	1:1272:A:GLN:HG3	8	0.88
(1,18)	1:1390:A:ASP:HB2	2:368:B:ASP:OD1	2	0.86
(1,30)	2:372:B:GLY:HA2	1:1272:A:GLN:O	3	0.84
(1,18)	1:1390:A:ASP:HB3	2:367:B:GLU:HG2	6	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:1277:A:SER:HB2	2:367:B:GLU:HB2	2	0.83
(1,2)	1:1268:A:ASP:OD2	2:370:B:LYS:HZ2	1	0.83
(1,30)	2:372:B:GLY:H	1:1275:A:ALA:H	4	0.82
(1,16)	1:1388:A:ASP:HA	2:367:B:GLU:HB2	7	0.82
(1,6)	1:1275:A:ALA:H	2:372:B:GLY:H	4	0.82
(1,24)	1:1406:A:GLY:HA3	2:380:B:ASN:HD22	1	0.79
(1,22)	1:1403:A:VAL:HG11	2:378:B:LEU:HD21	10	0.79
(1,15)	1:1387:A:LEU:HD22	2:367:B:GLU:OE2	1	0.77
(1,8)	1:1277:A:SER:O	2:369:B:HIS:HE1	5	0.76
(1,31)	2:373:B:THR:O	1:1272:A:GLN:HB3	8	0.75
(1,34)	2:376:B:LYS:O	1:1271:A:ARG:O	2	0.74
(1,31)	2:373:B:THR:H	1:1272:A:GLN:O	10	0.74
(1,15)	1:1387:A:LEU:HB2	2:367:B:GLU:OE1	10	0.74
(1,18)	1:1390:A:ASP:H	2:367:B:GLU:O	7	0.72
(1,15)	1:1387:A:LEU:HD23	2:367:B:GLU:HB2	4	0.72
(1,10)	1:1319:A:SER:HG	2:374:B:PHE:HB3	7	0.71
(1,30)	2:372:B:GLY:HA2	1:1272:A:GLN:O	6	0.7
(1,30)	2:372:B:GLY:HA2	1:1272:A:GLN:O	7	0.7
(1,16)	1:1388:A:ASP:O	2:367:B:GLU:HB2	3	0.7
(1,8)	1:1277:A:SER:H	2:368:B:ASP:HB2	4	0.7
(1,28)	2:370:B:LYS:O	1:1275:A:ALA:H	7	0.69
(1,22)	1:1403:A:VAL:HG13	2:379:B:THR:OG1	9	0.67
(1,33)	2:375:B:PRO:HD2	1:1319:A:SER:HG	3	0.65
(1,1)	1:1267:A:ALA:HB1	2:379:B:THR:HG23	7	0.65
(1,16)	1:1388:A:ASP:O	2:368:B:ASP:HB2	8	0.63
(1,14)	1:1337:A:HIS:HD2	2:374:B:PHE:HE1	9	0.63
(1,9)	1:1317:A:LYS:HB3	2:374:B:PHE:HD2	1	0.63
(1,13)	1:1324:A:THR:OG1	2:374:B:PHE:HE2	1	0.62
(1,1)	1:1267:A:ALA:HB2	2:379:B:THR:HG23	3	0.61
(1,22)	1:1403:A:VAL:HG22	2:379:B:THR:HG21	7	0.6
(1,14)	1:1337:A:HIS:HB2	2:374:B:PHE:HZ	7	0.6
(1,14)	1:1337:A:HIS:HB3	2:374:B:PHE:HZ	10	0.59
(1,1)	1:1267:A:ALA:HB2	2:379:B:THR:HG21	2	0.57
(1,27)	2:369:B:HIS:HB2	1:1315:A:HIS:HE1	6	0.55
(1,2)	1:1268:A:ASP:OD2	2:371:B:PRO:HG2	10	0.54
(1,7)	1:1276:A:CYS:H	2:367:B:GLU:OE1	8	0.52
(1,35)	2:377:B:ALA:HA	1:1271:A:ARG:O	10	0.5
(1,18)	1:1390:A:ASP:H	2:368:B:ASP:HA	8	0.5
(1,5)	1:1272:A:GLN:HA	2:377:B:ALA:HA	2	0.5
(1,30)	2:372:B:GLY:H	1:1275:A:ALA:HB3	2	0.49
(1,26)	2:368:B:ASP:O	1:1390:A:ASP:HB3	1	0.49
(1,28)	2:370:B:LYS:O	1:1275:A:ALA:HB3	2	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,17)	1:1389:A:PRO:HA	2:367:B:GLU:HB3	3	0.46
(1,16)	1:1388:A:ASP:OD1	2:367:B:GLU:HG2	6	0.46
(1,26)	2:368:B:ASP:HA	1:1390:A:ASP:H	3	0.45
(1,9)	1:1317:A:LYS:HB3	2:374:B:PHE:HD2	5	0.45
(1,32)	2:374:B:PHE:HD2	1:1319:A:SER:OG	1	0.44
(1,28)	2:370:B:LYS:O	1:1275:A:ALA:HB3	6	0.44
(1,19)	1:1391:A:GLN:HE21	2:368:B:ASP:OD1	9	0.44
(1,31)	2:373:B:THR:HA	1:1272:A:GLN:O	4	0.43
(1,24)	1:1406:A:GLY:HA3	2:380:B:ASN:HD22	6	0.43
(1,13)	1:1324:A:THR:HG23	2:374:B:PHE:HZ	7	0.43
(1,33)	2:375:B:PRO:HA	1:1272:A:GLN:O	5	0.42
(1,23)	1:1405:A:LEU:O	2:380:B:ASN:HD22	6	0.42
(1,31)	2:373:B:THR:HG23	1:1275:A:ALA:HB2	5	0.41
(1,6)	1:1275:A:ALA:HB2	2:373:B:THR:HG23	5	0.41
(1,30)	2:372:B:GLY:HA2	1:1272:A:GLN:HE21	9	0.4
(1,10)	1:1319:A:SER:HB3	2:374:B:PHE:CE1	6	0.39
(1,34)	2:376:B:LYS:O	1:1271:A:ARG:HA	9	0.37
(1,28)	2:370:B:LYS:H	1:1276:A:CYS:SG	5	0.37
(1,63)	1:1349:A:ASP:H	1:1352:A:ASP:H	8	0.36
(1,33)	2:375:B:PRO:HB3	1:1319:A:SER:HB3	10	0.36
(1,19)	1:1391:A:GLN:HE22	2:371:B:PRO:HD2	1	0.36
(1,12)	1:1321:A:GLN:H	2:378:B:LEU:HD13	4	0.36
(1,10)	1:1319:A:SER:HB3	2:375:B:PRO:HB3	10	0.36
(1,7)	1:1276:A:CYS:HA	2:369:B:HIS:HB2	2	0.34
(1,34)	2:376:B:LYS:HA	1:1271:A:ARG:HB2	6	0.33
(1,22)	1:1403:A:VAL:HB	2:380:B:ASN:HB2	8	0.33
(1,15)	1:1387:A:LEU:HD22	2:367:B:GLU:HG3	2	0.33
(1,13)	1:1324:A:THR:OG1	2:374:B:PHE:HE2	5	0.33
(1,7)	1:1276:A:CYS:SG	2:369:B:HIS:HA	5	0.33
(1,13)	1:1324:A:THR:OG1	2:374:B:PHE:HE2	4	0.32
(1,13)	1:1324:A:THR:HG1	2:374:B:PHE:HE2	10	0.32
(1,12)	1:1321:A:GLN:HG2	2:378:B:LEU:HD23	6	0.32
(1,7)	1:1276:A:CYS:HA	2:369:B:HIS:HB2	3	0.32
(1,42)	1:1348:A:THR:HG21	1:1349:A:ASP:H	9	0.3
(1,42)	1:1348:A:THR:HG22	1:1349:A:ASP:H	9	0.3
(1,42)	1:1348:A:THR:HG23	1:1349:A:ASP:H	9	0.3
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD11	10	0.29
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD12	10	0.29
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD13	10	0.29
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD21	10	0.29
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD22	10	0.29
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD23	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD11	10	0.29
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD12	10	0.29
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD13	10	0.29
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD21	10	0.29
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD22	10	0.29
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD23	10	0.29
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD11	10	0.29
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD12	10	0.29
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD13	10	0.29
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD21	10	0.29
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD22	10	0.29
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD23	10	0.29
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD11	10	0.29
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD12	10	0.29
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD13	10	0.29
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD21	10	0.29
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD22	10	0.29
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD23	10	0.29
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD11	10	0.29
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD12	10	0.29
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD13	10	0.29
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD21	10	0.29
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD22	10	0.29
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD23	10	0.29
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD11	10	0.29
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD12	10	0.29
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD13	10	0.29
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD21	10	0.29
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD22	10	0.29
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD23	10	0.29
(1,15)	1:1387:A:LEU:O	2:367:B:GLU:HG3	7	0.29
(1,10)	1:1319:A:SER:HB2	2:378:B:LEU:HD12	2	0.29
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD11	7	0.28
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD12	7	0.28
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD13	7	0.28
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD21	7	0.28
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD22	7	0.28
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD23	7	0.28
(1,1375)	1:1313:A:VAL:HG11	1:1387:A:LEU:HA	7	0.28
(1,1375)	1:1313:A:VAL:HG12	1:1387:A:LEU:HA	7	0.28
(1,1375)	1:1313:A:VAL:HG13	1:1387:A:LEU:HA	7	0.28
(1,1375)	1:1313:A:VAL:HG21	1:1387:A:LEU:HA	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1375)	1:1313:A:VAL:HG22	1:1387:A:LEU:HA	7	0.28
(1,1375)	1:1313:A:VAL:HG23	1:1387:A:LEU:HA	7	0.28
(1,10)	1:1319:A:SER:HG	2:374:B:PHE:HB3	3	0.28
(1,1559)	1:1326:A:THR:HG21	1:1335:A:ARG:HA	10	0.27
(1,1559)	1:1326:A:THR:HG22	1:1335:A:ARG:HA	10	0.27
(1,1559)	1:1326:A:THR:HG23	1:1335:A:ARG:HA	10	0.27
(1,63)	1:1349:A:ASP:H	1:1352:A:ASP:H	2	0.27
(1,34)	2:376:B:LYS:O	1:1271:A:ARG:HA	4	0.27
(1,18)	1:1390:A:ASP:H	2:368:B:ASP:HB3	9	0.27
(1,15)	1:1387:A:LEU:HD11	2:367:B:GLU:HG2	3	0.27
(1,14)	1:1337:A:HIS:HD2	2:374:B:PHE:HE1	3	0.27
(1,11)	1:1320:A:ALA:HB3	2:379:B:THR:HA	9	0.27
(1,4)	1:1271:A:ARG:HA	2:378:B:LEU:HD23	10	0.27
(1,439)	1:1386:A:GLU:H	1:1386:A:GLU:HG2	7	0.26
(1,439)	1:1386:A:GLU:H	1:1386:A:GLU:HG3	7	0.26
(1,92)	1:1353:A:ARG:HA	1:1353:A:ARG:HD3	1	0.26
(1,33)	2:375:B:PRO:HB3	1:1319:A:SER:HB3	1	0.26
(1,25)	2:367:B:GLU:HG3	1:1277:A:SER:HB2	3	0.26
(1,10)	1:1319:A:SER:HB3	2:375:B:PRO:HB3	1	0.26
(1,8)	1:1277:A:SER:HB2	2:367:B:GLU:HG3	3	0.26
(1,7)	1:1276:A:CYS:HG	2:367:B:GLU:HG2	10	0.26
(1,3)	1:1270:A:LEU:HD11	2:379:B:THR:HA	1	0.26
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB2	5	0.25
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB3	5	0.25
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB2	8	0.25
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB3	8	0.25
(1,439)	1:1386:A:GLU:H	1:1386:A:GLU:HG2	8	0.25
(1,439)	1:1386:A:GLU:H	1:1386:A:GLU:HG3	8	0.25
(1,63)	1:1349:A:ASP:H	1:1352:A:ASP:H	4	0.25
(1,42)	1:1348:A:THR:HG21	1:1349:A:ASP:H	8	0.25
(1,42)	1:1348:A:THR:HG22	1:1349:A:ASP:H	8	0.25
(1,42)	1:1348:A:THR:HG23	1:1349:A:ASP:H	8	0.25
(1,30)	2:372:B:GLY:HA2	1:1272:A:GLN:HB3	5	0.25
(1,6)	1:1275:A:ALA:HB2	2:367:B:GLU:OE2	8	0.25
(1,5)	1:1272:A:GLN:HB3	2:372:B:GLY:HA2	5	0.25
(1,3)	1:1270:A:LEU:HD12	2:379:B:THR:OG1	7	0.25
(1,1546)	1:1325:A:LEU:HD11	1:1326:A:THR:H	10	0.24
(1,1546)	1:1325:A:LEU:HD12	1:1326:A:THR:H	10	0.24
(1,1546)	1:1325:A:LEU:HD13	1:1326:A:THR:H	10	0.24
(1,1546)	1:1325:A:LEU:HD21	1:1326:A:THR:H	10	0.24
(1,1546)	1:1325:A:LEU:HD22	1:1326:A:THR:H	10	0.24
(1,1546)	1:1325:A:LEU:HD23	1:1326:A:THR:H	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB2	3	0.24
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB3	3	0.24
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB2	8	0.24
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB3	8	0.24
(1,1255)	1:1303:A:LEU:HD11	1:1353:A:ARG:HB2	8	0.24
(1,1255)	1:1303:A:LEU:HD11	1:1353:A:ARG:HB3	8	0.24
(1,1255)	1:1303:A:LEU:HD12	1:1353:A:ARG:HB2	8	0.24
(1,1255)	1:1303:A:LEU:HD12	1:1353:A:ARG:HB3	8	0.24
(1,1255)	1:1303:A:LEU:HD13	1:1353:A:ARG:HB2	8	0.24
(1,1255)	1:1303:A:LEU:HD13	1:1353:A:ARG:HB3	8	0.24
(1,624)	1:1264:A:SER:H	1:1264:A:SER:HB2	8	0.24
(1,624)	1:1264:A:SER:H	1:1264:A:SER:HB3	8	0.24
(1,1)	1:1267:A:ALA:HB1	2:379:B:THR:HA	4	0.24
(1,809)	1:1281:A:LEU:HA	1:1312:A:ALA:H	10	0.23
(1,796)	1:1280:A:TYR:H	1:1280:A:TYR:HE1	1	0.23
(1,796)	1:1280:A:TYR:H	1:1280:A:TYR:HE2	1	0.23
(1,624)	1:1264:A:SER:H	1:1264:A:SER:HB2	7	0.23
(1,624)	1:1264:A:SER:H	1:1264:A:SER:HB3	7	0.23
(1,245)	1:1365:A:ILE:HG12	1:1366:A:PHE:H	6	0.23
(1,245)	1:1365:A:ILE:HG13	1:1366:A:PHE:H	6	0.23
(1,63)	1:1349:A:ASP:H	1:1352:A:ASP:H	6	0.23
(1,32)	2:374:B:PHE:HD2	1:1317:A:LYS:HG2	4	0.23
(1,9)	1:1317:A:LYS:HG2	2:374:B:PHE:HD2	4	0.23
(1,1255)	1:1303:A:LEU:HD11	1:1353:A:ARG:HB2	1	0.22
(1,1255)	1:1303:A:LEU:HD11	1:1353:A:ARG:HB3	1	0.22
(1,1255)	1:1303:A:LEU:HD12	1:1353:A:ARG:HB2	1	0.22
(1,1255)	1:1303:A:LEU:HD12	1:1353:A:ARG:HB3	1	0.22
(1,1255)	1:1303:A:LEU:HD13	1:1353:A:ARG:HB2	1	0.22
(1,1255)	1:1303:A:LEU:HD13	1:1353:A:ARG:HB3	1	0.22
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG11	3	0.22
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG12	3	0.22
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG13	3	0.22
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG21	3	0.22
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG22	3	0.22
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG23	3	0.22
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG11	3	0.22
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG12	3	0.22
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG13	3	0.22
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG21	3	0.22
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG22	3	0.22
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG23	3	0.22
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG11	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG12	3	0.22
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG13	3	0.22
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG21	3	0.22
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG22	3	0.22
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG23	3	0.22
(1,439)	1:1386:A:GLU:H	1:1386:A:GLU:HG2	4	0.22
(1,439)	1:1386:A:GLU:H	1:1386:A:GLU:HG3	4	0.22
(1,63)	1:1349:A:ASP:H	1:1352:A:ASP:H	3	0.22
(1,52)	1:1348:A:THR:H	1:1366:A:PHE:HB2	5	0.22
(1,52)	1:1348:A:THR:H	1:1366:A:PHE:HB3	5	0.22
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD1	8	0.21
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD2	8	0.21
(1,1555)	1:1326:A:THR:HA	1:1335:A:ARG:HA	7	0.21
(1,856)	1:1282:A:THR:H	1:1385:A:ALA:H	5	0.21
(1,809)	1:1281:A:LEU:HA	1:1312:A:ALA:H	4	0.21
(1,694)	1:1272:A:GLN:HB2	1:1273:A:GLY:H	6	0.21
(1,694)	1:1272:A:GLN:HB3	1:1273:A:GLY:H	6	0.21
(1,590)	1:1407:A:GLN:HB3	1:1408:A:ARG:H	8	0.21
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG21	8	0.21
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG22	8	0.21
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG23	8	0.21
(1,444)	1:1387:A:LEU:HB2	1:1388:A:ASP:HB2	7	0.21
(1,444)	1:1387:A:LEU:HB2	1:1388:A:ASP:HB3	7	0.21
(1,444)	1:1387:A:LEU:HB3	1:1388:A:ASP:HB2	7	0.21
(1,444)	1:1387:A:LEU:HB3	1:1388:A:ASP:HB3	7	0.21
(1,24)	1:1406:A:GLY:HA2	2:380:B:ASN:HD22	4	0.21
(1,16)	1:1388:A:ASP:HA	2:367:B:GLU:HA	1	0.21
(1,1827)	1:1347:A:SER:HB2	1:1348:A:THR:H	5	0.2
(1,1827)	1:1347:A:SER:HB3	1:1348:A:THR:H	5	0.2
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG21	10	0.2
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG22	10	0.2
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG23	10	0.2
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG21	10	0.2
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG22	10	0.2
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG23	10	0.2
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG21	10	0.2
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG22	10	0.2
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG23	10	0.2
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB2	3	0.2
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB3	3	0.2
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG11	5	0.2
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG12	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG13	5	0.2
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG21	5	0.2
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG22	5	0.2
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG23	5	0.2
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG11	5	0.2
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG12	5	0.2
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG13	5	0.2
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG21	5	0.2
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG22	5	0.2
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG23	5	0.2
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG11	5	0.2
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG12	5	0.2
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG13	5	0.2
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG21	5	0.2
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG22	5	0.2
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG23	5	0.2
(1,284)	1:1368:A:PHE:H	1:1383:A:LEU:HD11	10	0.2
(1,284)	1:1368:A:PHE:H	1:1383:A:LEU:HD12	10	0.2
(1,284)	1:1368:A:PHE:H	1:1383:A:LEU:HD13	10	0.2
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD11	8	0.19
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD12	8	0.19
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD13	8	0.19
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD21	8	0.19
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD22	8	0.19
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD23	8	0.19
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD11	8	0.19
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD12	8	0.19
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD13	8	0.19
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD21	8	0.19
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD22	8	0.19
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD23	8	0.19
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD11	8	0.19
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD12	8	0.19
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD13	8	0.19
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD21	8	0.19
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD22	8	0.19
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD23	8	0.19
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD11	8	0.19
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD12	8	0.19
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD13	8	0.19
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD21	8	0.19
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD22	8	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD23	8	0.19
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD11	8	0.19
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD12	8	0.19
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD13	8	0.19
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD21	8	0.19
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD22	8	0.19
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD23	8	0.19
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD11	8	0.19
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD12	8	0.19
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD13	8	0.19
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD21	8	0.19
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD22	8	0.19
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD23	8	0.19
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG21	4	0.19
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG22	4	0.19
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG23	4	0.19
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG21	4	0.19
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG22	4	0.19
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG23	4	0.19
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG21	4	0.19
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG22	4	0.19
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG23	4	0.19
(1,1375)	1:1313:A:VAL:HG11	1:1387:A:LEU:HA	2	0.19
(1,1375)	1:1313:A:VAL:HG12	1:1387:A:LEU:HA	2	0.19
(1,1375)	1:1313:A:VAL:HG13	1:1387:A:LEU:HA	2	0.19
(1,1375)	1:1313:A:VAL:HG21	1:1387:A:LEU:HA	2	0.19
(1,1375)	1:1313:A:VAL:HG22	1:1387:A:LEU:HA	2	0.19
(1,1375)	1:1313:A:VAL:HG23	1:1387:A:LEU:HA	2	0.19
(1,1298)	1:1306:A:SER:H	1:1306:A:SER:HB2	9	0.19
(1,1111)	1:1295:A:VAL:HG11	1:1349:A:ASP:HB2	8	0.19
(1,1111)	1:1295:A:VAL:HG11	1:1349:A:ASP:HB3	8	0.19
(1,1111)	1:1295:A:VAL:HG12	1:1349:A:ASP:HB2	8	0.19
(1,1111)	1:1295:A:VAL:HG12	1:1349:A:ASP:HB3	8	0.19
(1,1111)	1:1295:A:VAL:HG13	1:1349:A:ASP:HB2	8	0.19
(1,1111)	1:1295:A:VAL:HG13	1:1349:A:ASP:HB3	8	0.19
(1,1111)	1:1295:A:VAL:HG21	1:1349:A:ASP:HB2	8	0.19
(1,1111)	1:1295:A:VAL:HG21	1:1349:A:ASP:HB3	8	0.19
(1,1111)	1:1295:A:VAL:HG22	1:1349:A:ASP:HB2	8	0.19
(1,1111)	1:1295:A:VAL:HG22	1:1349:A:ASP:HB3	8	0.19
(1,1111)	1:1295:A:VAL:HG23	1:1349:A:ASP:HB2	8	0.19
(1,1111)	1:1295:A:VAL:HG23	1:1349:A:ASP:HB3	8	0.19
(1,796)	1:1280:A:TYR:H	1:1280:A:TYR:HE1	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,796)	1:1280:A:TYR:H	1:1280:A:TYR:HE2	6	0.19
(1,63)	1:1349:A:ASP:H	1:1352:A:ASP:H	7	0.19
(1,63)	1:1349:A:ASP:H	1:1352:A:ASP:H	9	0.19
(1,50)	1:1348:A:THR:HG21	1:1397:A:VAL:HG11	8	0.19
(1,50)	1:1348:A:THR:HG21	1:1397:A:VAL:HG12	8	0.19
(1,50)	1:1348:A:THR:HG21	1:1397:A:VAL:HG13	8	0.19
(1,50)	1:1348:A:THR:HG21	1:1397:A:VAL:HG21	8	0.19
(1,50)	1:1348:A:THR:HG21	1:1397:A:VAL:HG22	8	0.19
(1,50)	1:1348:A:THR:HG21	1:1397:A:VAL:HG23	8	0.19
(1,50)	1:1348:A:THR:HG22	1:1397:A:VAL:HG11	8	0.19
(1,50)	1:1348:A:THR:HG22	1:1397:A:VAL:HG12	8	0.19
(1,50)	1:1348:A:THR:HG22	1:1397:A:VAL:HG13	8	0.19
(1,50)	1:1348:A:THR:HG22	1:1397:A:VAL:HG21	8	0.19
(1,50)	1:1348:A:THR:HG22	1:1397:A:VAL:HG22	8	0.19
(1,50)	1:1348:A:THR:HG22	1:1397:A:VAL:HG23	8	0.19
(1,50)	1:1348:A:THR:HG23	1:1397:A:VAL:HG11	8	0.19
(1,50)	1:1348:A:THR:HG23	1:1397:A:VAL:HG12	8	0.19
(1,50)	1:1348:A:THR:HG23	1:1397:A:VAL:HG13	8	0.19
(1,50)	1:1348:A:THR:HG23	1:1397:A:VAL:HG21	8	0.19
(1,50)	1:1348:A:THR:HG23	1:1397:A:VAL:HG22	8	0.19
(1,50)	1:1348:A:THR:HG23	1:1397:A:VAL:HG23	8	0.19
(1,10)	1:1319:A:SER:OG	2:376:B:LYS:HE3	8	0.19
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG21	5	0.18
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG22	5	0.18
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG23	5	0.18
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG21	5	0.18
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG22	5	0.18
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG23	5	0.18
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG21	5	0.18
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG22	5	0.18
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG23	5	0.18
(1,1473)	1:1321:A:GLN:H	1:1321:A:GLN:HG2	3	0.18
(1,1473)	1:1321:A:GLN:H	1:1321:A:GLN:HG3	3	0.18
(1,1473)	1:1321:A:GLN:H	1:1321:A:GLN:HG2	10	0.18
(1,1473)	1:1321:A:GLN:H	1:1321:A:GLN:HG3	10	0.18
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD11	1	0.18
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD12	1	0.18
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD13	1	0.18
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD21	1	0.18
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD22	1	0.18
(1,1398)	1:1314:A:VAL:HG11	1:1332:A:LEU:HD23	1	0.18
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD11	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD12	1	0.18
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD13	1	0.18
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD21	1	0.18
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD22	1	0.18
(1,1398)	1:1314:A:VAL:HG12	1:1332:A:LEU:HD23	1	0.18
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD11	1	0.18
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD12	1	0.18
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD13	1	0.18
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD21	1	0.18
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD22	1	0.18
(1,1398)	1:1314:A:VAL:HG13	1:1332:A:LEU:HD23	1	0.18
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD11	1	0.18
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD12	1	0.18
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD13	1	0.18
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD21	1	0.18
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD22	1	0.18
(1,1398)	1:1314:A:VAL:HG21	1:1332:A:LEU:HD23	1	0.18
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD11	1	0.18
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD12	1	0.18
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD13	1	0.18
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD21	1	0.18
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD22	1	0.18
(1,1398)	1:1314:A:VAL:HG22	1:1332:A:LEU:HD23	1	0.18
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD11	1	0.18
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD12	1	0.18
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD13	1	0.18
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD21	1	0.18
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD22	1	0.18
(1,1398)	1:1314:A:VAL:HG23	1:1332:A:LEU:HD23	1	0.18
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB2	2	0.18
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB3	2	0.18
(1,1297)	1:1306:A:SER:H	1:1306:A:SER:HB3	6	0.18
(1,748)	1:1279:A:LEU:HD21	1:1280:A:TYR:H	10	0.18
(1,748)	1:1279:A:LEU:HD22	1:1280:A:TYR:H	10	0.18
(1,748)	1:1279:A:LEU:HD23	1:1280:A:TYR:H	10	0.18
(1,694)	1:1272:A:GLN:HB2	1:1273:A:GLY:H	4	0.18
(1,694)	1:1272:A:GLN:HB3	1:1273:A:GLY:H	4	0.18
(1,606)	1:1408:A:ARG:HB2	1:1409:A:LYS:H	7	0.18
(1,606)	1:1408:A:ARG:HB3	1:1409:A:LYS:H	7	0.18
(1,42)	1:1348:A:THR:HG21	1:1349:A:ASP:H	7	0.18
(1,42)	1:1348:A:THR:HG22	1:1349:A:ASP:H	7	0.18
(1,42)	1:1348:A:THR:HG23	1:1349:A:ASP:H	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,32)	2:374:B:PHE:HB2	1:1317:A:LYS:HD2	10	0.18
(1,9)	1:1317:A:LYS:HD2	2:374:B:PHE:HB2	10	0.18
(1,1826)	1:1347:A:SER:HB2	1:1348:A:THR:H	5	0.17
(1,1819)	1:1346:A:SER:H	1:1347:A:SER:H	1	0.17
(1,1522)	1:1323:A:ILE:H	1:1338:A:TYR:HB2	1	0.17
(1,1522)	1:1323:A:ILE:H	1:1338:A:TYR:HB3	1	0.17
(1,1297)	1:1306:A:SER:H	1:1306:A:SER:HB3	4	0.17
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD2	7	0.17
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD3	7	0.17
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD2	7	0.17
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD3	7	0.17
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD2	7	0.17
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD3	7	0.17
(1,856)	1:1282:A:THR:H	1:1385:A:ALA:H	6	0.17
(1,856)	1:1282:A:THR:H	1:1385:A:ALA:H	7	0.17
(1,748)	1:1279:A:LEU:HD21	1:1280:A:TYR:H	7	0.17
(1,748)	1:1279:A:LEU:HD22	1:1280:A:TYR:H	7	0.17
(1,748)	1:1279:A:LEU:HD23	1:1280:A:TYR:H	7	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG11	9	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG12	9	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG13	9	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG21	9	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG22	9	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG23	9	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG11	9	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG12	9	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG13	9	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG21	9	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG22	9	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG23	9	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG11	9	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG12	9	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG13	9	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG21	9	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG22	9	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG23	9	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG11	10	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG12	10	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG13	10	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG21	10	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG22	10	0.17
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG23	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG11	10	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG12	10	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG13	10	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG21	10	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG22	10	0.17
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG23	10	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG11	10	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG12	10	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG13	10	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG21	10	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG22	10	0.17
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG23	10	0.17
(1,417)	1:1382:A:HIS:HA	1:1383:A:LEU:HD11	10	0.17
(1,417)	1:1382:A:HIS:HA	1:1383:A:LEU:HD12	10	0.17
(1,417)	1:1382:A:HIS:HA	1:1383:A:LEU:HD13	10	0.17
(1,366)	1:1375:A:SER:H	1:1375:A:SER:HB3	9	0.17
(1,331)	1:1371:A:LYS:H	1:1371:A:LYS:HD2	7	0.17
(1,331)	1:1371:A:LYS:H	1:1371:A:LYS:HD3	7	0.17
(1,24)	1:1406:A:GLY:HA2	2:380:B:ASN:HD22	3	0.17
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD1	9	0.16
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD2	9	0.16
(1,1851)	1:1272:A:GLN:HG2	2:371:B:PRO:HA	9	0.16
(1,1851)	1:1272:A:GLN:HG3	2:371:B:PRO:HA	9	0.16
(1,1546)	1:1325:A:LEU:HD11	1:1326:A:THR:H	7	0.16
(1,1546)	1:1325:A:LEU:HD12	1:1326:A:THR:H	7	0.16
(1,1546)	1:1325:A:LEU:HD13	1:1326:A:THR:H	7	0.16
(1,1546)	1:1325:A:LEU:HD21	1:1326:A:THR:H	7	0.16
(1,1546)	1:1325:A:LEU:HD22	1:1326:A:THR:H	7	0.16
(1,1546)	1:1325:A:LEU:HD23	1:1326:A:THR:H	7	0.16
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG21	8	0.16
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG22	8	0.16
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG23	8	0.16
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG21	8	0.16
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG22	8	0.16
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG23	8	0.16
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG21	8	0.16
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG22	8	0.16
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG23	8	0.16
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD2	8	0.16
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD3	8	0.16
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD2	8	0.16
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD3	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD2	8	0.16
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD3	8	0.16
(1,674)	1:1270:A:LEU:HG	1:1272:A:GLN:H	4	0.16
(1,664)	1:1269:A:LEU:HD11	1:1273:A:GLY:H	3	0.16
(1,664)	1:1269:A:LEU:HD12	1:1273:A:GLY:H	3	0.16
(1,664)	1:1269:A:LEU:HD13	1:1273:A:GLY:H	3	0.16
(1,664)	1:1269:A:LEU:HD21	1:1273:A:GLY:H	3	0.16
(1,664)	1:1269:A:LEU:HD22	1:1273:A:GLY:H	3	0.16
(1,664)	1:1269:A:LEU:HD23	1:1273:A:GLY:H	3	0.16
(1,627)	1:1265:A:THR:H	1:1265:A:THR:HG21	3	0.16
(1,627)	1:1265:A:THR:H	1:1265:A:THR:HG22	3	0.16
(1,627)	1:1265:A:THR:H	1:1265:A:THR:HG23	3	0.16
(1,615)	1:1408:A:ARG:H	1:1408:A:ARG:HD2	1	0.16
(1,562)	1:1403:A:VAL:HB	1:1404:A:LEU:HD11	7	0.16
(1,562)	1:1403:A:VAL:HB	1:1404:A:LEU:HD12	7	0.16
(1,562)	1:1403:A:VAL:HB	1:1404:A:LEU:HD13	7	0.16
(1,562)	1:1403:A:VAL:HB	1:1404:A:LEU:HD21	7	0.16
(1,562)	1:1403:A:VAL:HB	1:1404:A:LEU:HD22	7	0.16
(1,562)	1:1403:A:VAL:HB	1:1404:A:LEU:HD23	7	0.16
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG11	2	0.16
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG12	2	0.16
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG13	2	0.16
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG21	2	0.16
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG22	2	0.16
(1,539)	1:1401:A:THR:HG21	1:1403:A:VAL:HG23	2	0.16
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG11	2	0.16
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG12	2	0.16
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG13	2	0.16
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG21	2	0.16
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG22	2	0.16
(1,539)	1:1401:A:THR:HG22	1:1403:A:VAL:HG23	2	0.16
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG11	2	0.16
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG12	2	0.16
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG13	2	0.16
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG21	2	0.16
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG22	2	0.16
(1,539)	1:1401:A:THR:HG23	1:1403:A:VAL:HG23	2	0.16
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG21	1	0.16
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG22	1	0.16
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG23	1	0.16
(1,366)	1:1375:A:SER:H	1:1375:A:SER:HB3	1	0.16
(1,342)	1:1372:A:LYS:HE2	1:1380:A:VAL:HG11	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,342)	1:1372:A:LYS:HE2	1:1380:A:VAL:HG12	7	0.16
(1,342)	1:1372:A:LYS:HE2	1:1380:A:VAL:HG13	7	0.16
(1,342)	1:1372:A:LYS:HE2	1:1380:A:VAL:HG21	7	0.16
(1,342)	1:1372:A:LYS:HE2	1:1380:A:VAL:HG22	7	0.16
(1,342)	1:1372:A:LYS:HE2	1:1380:A:VAL:HG23	7	0.16
(1,342)	1:1372:A:LYS:HE3	1:1380:A:VAL:HG11	7	0.16
(1,342)	1:1372:A:LYS:HE3	1:1380:A:VAL:HG12	7	0.16
(1,342)	1:1372:A:LYS:HE3	1:1380:A:VAL:HG13	7	0.16
(1,342)	1:1372:A:LYS:HE3	1:1380:A:VAL:HG21	7	0.16
(1,342)	1:1372:A:LYS:HE3	1:1380:A:VAL:HG22	7	0.16
(1,342)	1:1372:A:LYS:HE3	1:1380:A:VAL:HG23	7	0.16
(1,334)	1:1371:A:LYS:H	1:1372:A:LYS:HA	7	0.16
(1,92)	1:1353:A:ARG:HA	1:1353:A:ARG:HD3	8	0.16
(1,63)	1:1349:A:ASP:H	1:1352:A:ASP:H	1	0.16
(1,3)	1:1270:A:LEU:HB2	2:378:B:LEU:HB2	4	0.16
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG11	1	0.15
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG12	1	0.15
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG13	1	0.15
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG21	1	0.15
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG22	1	0.15
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG23	1	0.15
(1,1794)	1:1345:A:PHE:H	1:1368:A:PHE:HB2	7	0.15
(1,1794)	1:1345:A:PHE:H	1:1368:A:PHE:HB3	7	0.15
(1,1552)	1:1325:A:LEU:H	1:1336:A:ARG:H	4	0.15
(1,1549)	1:1325:A:LEU:HD11	1:1336:A:ARG:H	4	0.15
(1,1549)	1:1325:A:LEU:HD12	1:1336:A:ARG:H	4	0.15
(1,1549)	1:1325:A:LEU:HD13	1:1336:A:ARG:H	4	0.15
(1,1549)	1:1325:A:LEU:HD21	1:1336:A:ARG:H	4	0.15
(1,1549)	1:1325:A:LEU:HD22	1:1336:A:ARG:H	4	0.15
(1,1549)	1:1325:A:LEU:HD23	1:1336:A:ARG:H	4	0.15
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG21	1	0.15
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG22	1	0.15
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG23	1	0.15
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG21	1	0.15
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG22	1	0.15
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG23	1	0.15
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG21	1	0.15
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG22	1	0.15
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG23	1	0.15
(1,1375)	1:1313:A:VAL:HG11	1:1387:A:LEU:HA	1	0.15
(1,1375)	1:1313:A:VAL:HG12	1:1387:A:LEU:HA	1	0.15
(1,1375)	1:1313:A:VAL:HG13	1:1387:A:LEU:HA	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1375)	1:1313:A:VAL:HG21	1:1387:A:LEU:HA	1	0.15
(1,1375)	1:1313:A:VAL:HG22	1:1387:A:LEU:HA	1	0.15
(1,1375)	1:1313:A:VAL:HG23	1:1387:A:LEU:HA	1	0.15
(1,1297)	1:1306:A:SER:H	1:1306:A:SER:HB3	5	0.15
(1,1271)	1:1303:A:LEU:HD21	1:1305:A:CYS:H	1	0.15
(1,1271)	1:1303:A:LEU:HD22	1:1305:A:CYS:H	1	0.15
(1,1271)	1:1303:A:LEU:HD23	1:1305:A:CYS:H	1	0.15
(1,1271)	1:1303:A:LEU:HD21	1:1305:A:CYS:H	2	0.15
(1,1271)	1:1303:A:LEU:HD22	1:1305:A:CYS:H	2	0.15
(1,1271)	1:1303:A:LEU:HD23	1:1305:A:CYS:H	2	0.15
(1,772)	1:1279:A:LEU:H	1:1387:A:LEU:HB2	10	0.15
(1,772)	1:1279:A:LEU:H	1:1387:A:LEU:HB3	10	0.15
(1,629)	1:1266:A:ALA:HB1	1:1270:A:LEU:H	5	0.15
(1,629)	1:1266:A:ALA:HB2	1:1270:A:LEU:H	5	0.15
(1,629)	1:1266:A:ALA:HB3	1:1270:A:LEU:H	5	0.15
(1,615)	1:1408:A:ARG:H	1:1408:A:ARG:HD2	3	0.15
(1,590)	1:1407:A:GLN:HB3	1:1408:A:ARG:H	1	0.15
(1,548)	1:1401:A:THR:HG21	1:1407:A:GLN:H	2	0.15
(1,548)	1:1401:A:THR:HG22	1:1407:A:GLN:H	2	0.15
(1,548)	1:1401:A:THR:HG23	1:1407:A:GLN:H	2	0.15
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG21	9	0.15
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG22	9	0.15
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG23	9	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG11	9	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG12	9	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG13	9	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG21	9	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG22	9	0.15
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG23	9	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG11	9	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG12	9	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG13	9	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG21	9	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG22	9	0.15
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG23	9	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG11	9	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG12	9	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG13	9	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG21	9	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG22	9	0.15
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG23	9	0.15
(1,450)	1:1389:A:PRO:HG2	1:1390:A:ASP:H	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,450)	1:1389:A:PRO:HG3	1:1390:A:ASP:H	4	0.15
(1,366)	1:1375:A:SER:H	1:1375:A:SER:HB3	6	0.15
(1,245)	1:1365:A:ILE:HG12	1:1366:A:PHE:H	4	0.15
(1,245)	1:1365:A:ILE:HG13	1:1366:A:PHE:H	4	0.15
(1,229)	1:1364:A:LYS:HG2	1:1393:A:ALA:HB1	9	0.15
(1,229)	1:1364:A:LYS:HG2	1:1393:A:ALA:HB2	9	0.15
(1,229)	1:1364:A:LYS:HG2	1:1393:A:ALA:HB3	9	0.15
(1,229)	1:1364:A:LYS:HG3	1:1393:A:ALA:HB1	9	0.15
(1,229)	1:1364:A:LYS:HG3	1:1393:A:ALA:HB2	9	0.15
(1,229)	1:1364:A:LYS:HG3	1:1393:A:ALA:HB3	9	0.15
(1,47)	1:1348:A:THR:HG21	1:1366:A:PHE:HB2	4	0.15
(1,47)	1:1348:A:THR:HG22	1:1366:A:PHE:HB2	4	0.15
(1,47)	1:1348:A:THR:HG23	1:1366:A:PHE:HB2	4	0.15
(1,16)	1:1388:A:ASP:H	2:367:B:GLU:HG2	9	0.15
(1,1549)	1:1325:A:LEU:HD11	1:1336:A:ARG:H	10	0.14
(1,1549)	1:1325:A:LEU:HD12	1:1336:A:ARG:H	10	0.14
(1,1549)	1:1325:A:LEU:HD13	1:1336:A:ARG:H	10	0.14
(1,1549)	1:1325:A:LEU:HD21	1:1336:A:ARG:H	10	0.14
(1,1549)	1:1325:A:LEU:HD22	1:1336:A:ARG:H	10	0.14
(1,1549)	1:1325:A:LEU:HD23	1:1336:A:ARG:H	10	0.14
(1,1530)	1:1324:A:THR:HA	1:1338:A:TYR:H	4	0.14
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG21	2	0.14
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG22	2	0.14
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG23	2	0.14
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG21	2	0.14
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG22	2	0.14
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG23	2	0.14
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG21	2	0.14
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG22	2	0.14
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG23	2	0.14
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG21	7	0.14
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG22	7	0.14
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG23	7	0.14
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG21	7	0.14
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG22	7	0.14
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG23	7	0.14
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG21	7	0.14
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG22	7	0.14
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG23	7	0.14
(1,1410)	1:1315:A:HIS:H	1:1326:A:THR:HB	10	0.14
(1,1297)	1:1306:A:SER:H	1:1306:A:SER:HB3	8	0.14
(1,1291)	1:1305:A:CYS:HB2	1:1306:A:SER:H	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD2	4	0.14
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD3	4	0.14
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD2	4	0.14
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD3	4	0.14
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD2	4	0.14
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD3	4	0.14
(1,1125)	1:1295:A:VAL:HG11	1:1345:A:PHE:HE1	8	0.14
(1,1125)	1:1295:A:VAL:HG11	1:1345:A:PHE:HE2	8	0.14
(1,1125)	1:1295:A:VAL:HG12	1:1345:A:PHE:HE1	8	0.14
(1,1125)	1:1295:A:VAL:HG12	1:1345:A:PHE:HE2	8	0.14
(1,1125)	1:1295:A:VAL:HG13	1:1345:A:PHE:HE1	8	0.14
(1,1125)	1:1295:A:VAL:HG13	1:1345:A:PHE:HE2	8	0.14
(1,1125)	1:1295:A:VAL:HG21	1:1345:A:PHE:HE1	8	0.14
(1,1125)	1:1295:A:VAL:HG21	1:1345:A:PHE:HE2	8	0.14
(1,1125)	1:1295:A:VAL:HG22	1:1345:A:PHE:HE1	8	0.14
(1,1125)	1:1295:A:VAL:HG22	1:1345:A:PHE:HE2	8	0.14
(1,1125)	1:1295:A:VAL:HG23	1:1345:A:PHE:HE1	8	0.14
(1,1125)	1:1295:A:VAL:HG23	1:1345:A:PHE:HE2	8	0.14
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB2	4	0.14
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB3	4	0.14
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB2	9	0.14
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB3	9	0.14
(1,748)	1:1279:A:LEU:HD21	1:1280:A:TYR:H	2	0.14
(1,748)	1:1279:A:LEU:HD22	1:1280:A:TYR:H	2	0.14
(1,748)	1:1279:A:LEU:HD23	1:1280:A:TYR:H	2	0.14
(1,617)	1:1409:A:LYS:H	1:1409:A:LYS:HB2	8	0.14
(1,617)	1:1409:A:LYS:H	1:1409:A:LYS:HB3	8	0.14
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD21	7	0.14
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD22	7	0.14
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD23	7	0.14
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG21	6	0.14
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG22	6	0.14
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG23	6	0.14
(1,521)	1:1400:A:ILE:H	1:1400:A:ILE:HD11	5	0.14
(1,521)	1:1400:A:ILE:H	1:1400:A:ILE:HD12	5	0.14
(1,521)	1:1400:A:ILE:H	1:1400:A:ILE:HD13	5	0.14
(1,366)	1:1375:A:SER:H	1:1375:A:SER:HB3	2	0.14
(1,366)	1:1375:A:SER:H	1:1375:A:SER:HB3	5	0.14
(1,366)	1:1375:A:SER:H	1:1375:A:SER:HB3	7	0.14
(1,366)	1:1375:A:SER:H	1:1375:A:SER:HB3	10	0.14
(1,268)	1:1366:A:PHE:H	1:1393:A:ALA:HB1	1	0.14
(1,268)	1:1366:A:PHE:H	1:1393:A:ALA:HB2	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,268)	1:1366:A:PHE:H	1:1393:A:ALA:HB3	1	0.14
(1,254)	1:1366:A:PHE:HA	1:1397:A:VAL:HG11	3	0.14
(1,254)	1:1366:A:PHE:HA	1:1397:A:VAL:HG12	3	0.14
(1,254)	1:1366:A:PHE:HA	1:1397:A:VAL:HG13	3	0.14
(1,245)	1:1365:A:ILE:HG12	1:1366:A:PHE:H	7	0.14
(1,245)	1:1365:A:ILE:HG13	1:1366:A:PHE:H	7	0.14
(1,233)	1:1364:A:LYS:H	1:1364:A:LYS:HG2	8	0.14
(1,233)	1:1364:A:LYS:H	1:1364:A:LYS:HG3	8	0.14
(1,82)	1:1351:A:GLN:HB2	1:1353:A:ARG:H	3	0.14
(1,82)	1:1351:A:GLN:HB3	1:1353:A:ARG:H	3	0.14
(1,33)	2:375:B:PRO:HB3	1:1319:A:SER:HB2	4	0.14
(1,10)	1:1319:A:SER:HB2	2:375:B:PRO:HB3	4	0.14
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD11	1	0.13
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD12	1	0.13
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD13	1	0.13
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD21	1	0.13
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD22	1	0.13
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD23	1	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD11	1	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD12	1	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD13	1	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD21	1	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD22	1	0.13
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD23	1	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD11	1	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD12	1	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD13	1	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD21	1	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD22	1	0.13
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD23	1	0.13
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD11	1	0.13
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD12	1	0.13
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD13	1	0.13
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD21	1	0.13
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD22	1	0.13
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD23	1	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD11	1	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD12	1	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD13	1	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD21	1	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD22	1	0.13
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD23	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD11	1	0.13
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD12	1	0.13
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD13	1	0.13
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD21	1	0.13
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD22	1	0.13
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD23	1	0.13
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD1	10	0.13
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD2	10	0.13
(1,1851)	1:1272:A:GLN:HG2	2:371:B:PRO:HA	1	0.13
(1,1851)	1:1272:A:GLN:HG3	2:371:B:PRO:HA	1	0.13
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG11	10	0.13
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG12	10	0.13
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG13	10	0.13
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG21	10	0.13
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG22	10	0.13
(1,1841)	1:1266:A:ALA:HA	1:1403:A:VAL:HG23	10	0.13
(1,1599)	1:1331:A:LYS:HA	1:1331:A:LYS:HE3	7	0.13
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG21	9	0.13
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG22	9	0.13
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG23	9	0.13
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG21	9	0.13
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG22	9	0.13
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG23	9	0.13
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG21	9	0.13
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG22	9	0.13
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG23	9	0.13
(1,1486)	1:1322:A:GLY:H	1:1340:A:VAL:HB	6	0.13
(1,1413)	1:1316:A:PHE:HA	1:1324:A:THR:HG21	3	0.13
(1,1413)	1:1316:A:PHE:HA	1:1324:A:THR:HG22	3	0.13
(1,1413)	1:1316:A:PHE:HA	1:1324:A:THR:HG23	3	0.13
(1,1297)	1:1306:A:SER:H	1:1306:A:SER:HB3	2	0.13
(1,1271)	1:1303:A:LEU:HD21	1:1305:A:CYS:H	6	0.13
(1,1271)	1:1303:A:LEU:HD22	1:1305:A:CYS:H	6	0.13
(1,1271)	1:1303:A:LEU:HD23	1:1305:A:CYS:H	6	0.13
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD2	1	0.13
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD3	1	0.13
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD2	1	0.13
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD3	1	0.13
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD2	1	0.13
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD3	1	0.13
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD2	2	0.13
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD3	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD2	2	0.13
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD3	2	0.13
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD2	2	0.13
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD3	2	0.13
(1,1125)	1:1295:A:VAL:HG11	1:1345:A:PHE:HE1	4	0.13
(1,1125)	1:1295:A:VAL:HG11	1:1345:A:PHE:HE2	4	0.13
(1,1125)	1:1295:A:VAL:HG12	1:1345:A:PHE:HE1	4	0.13
(1,1125)	1:1295:A:VAL:HG12	1:1345:A:PHE:HE2	4	0.13
(1,1125)	1:1295:A:VAL:HG13	1:1345:A:PHE:HE1	4	0.13
(1,1125)	1:1295:A:VAL:HG13	1:1345:A:PHE:HE2	4	0.13
(1,1125)	1:1295:A:VAL:HG21	1:1345:A:PHE:HE1	4	0.13
(1,1125)	1:1295:A:VAL:HG21	1:1345:A:PHE:HE2	4	0.13
(1,1125)	1:1295:A:VAL:HG22	1:1345:A:PHE:HE1	4	0.13
(1,1125)	1:1295:A:VAL:HG22	1:1345:A:PHE:HE2	4	0.13
(1,1125)	1:1295:A:VAL:HG23	1:1345:A:PHE:HE1	4	0.13
(1,1125)	1:1295:A:VAL:HG23	1:1345:A:PHE:HE2	4	0.13
(1,1069)	1:1292:A:PRO:HG2	1:1293:A:GLN:H	4	0.13
(1,1069)	1:1292:A:PRO:HG3	1:1293:A:GLN:H	4	0.13
(1,1032)	1:1289:A:LEU:HD21	1:1297:A:ARG:HB3	2	0.13
(1,1032)	1:1289:A:LEU:HD22	1:1297:A:ARG:HB3	2	0.13
(1,1032)	1:1289:A:LEU:HD23	1:1297:A:ARG:HB3	2	0.13
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG11	10	0.13
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG12	10	0.13
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG13	10	0.13
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG21	10	0.13
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG22	10	0.13
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG23	10	0.13
(1,947)	1:1286:A:THR:HB	1:1294:A:ALA:H	4	0.13
(1,867)	1:1283:A:SER:H	1:1382:A:HIS:HB2	4	0.13
(1,867)	1:1283:A:SER:H	1:1382:A:HIS:HB3	4	0.13
(1,809)	1:1281:A:LEU:HA	1:1312:A:ALA:H	8	0.13
(1,767)	1:1279:A:LEU:HD11	1:1314:A:VAL:H	7	0.13
(1,767)	1:1279:A:LEU:HD12	1:1314:A:VAL:H	7	0.13
(1,767)	1:1279:A:LEU:HD13	1:1314:A:VAL:H	7	0.13
(1,767)	1:1279:A:LEU:HD21	1:1314:A:VAL:H	7	0.13
(1,767)	1:1279:A:LEU:HD22	1:1314:A:VAL:H	7	0.13
(1,767)	1:1279:A:LEU:HD23	1:1314:A:VAL:H	7	0.13
(1,590)	1:1407:A:GLN:HB3	1:1408:A:ARG:H	2	0.13
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD21	6	0.13
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD22	6	0.13
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD23	6	0.13
(1,567)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD21	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,567)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD22	6	0.13
(1,567)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD23	6	0.13
(1,567)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD21	6	0.13
(1,567)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD22	6	0.13
(1,567)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD23	6	0.13
(1,567)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD21	6	0.13
(1,567)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD22	6	0.13
(1,567)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD23	6	0.13
(1,567)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD21	6	0.13
(1,567)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD22	6	0.13
(1,567)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD23	6	0.13
(1,567)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD21	6	0.13
(1,567)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD22	6	0.13
(1,567)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD23	6	0.13
(1,567)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD21	6	0.13
(1,567)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD22	6	0.13
(1,567)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD23	6	0.13
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG21	4	0.13
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG22	4	0.13
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG23	4	0.13
(1,519)	1:1400:A:ILE:HG21	1:1403:A:VAL:H	2	0.13
(1,519)	1:1400:A:ILE:HG22	1:1403:A:VAL:H	2	0.13
(1,519)	1:1400:A:ILE:HG23	1:1403:A:VAL:H	2	0.13
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG11	7	0.13
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG12	7	0.13
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG13	7	0.13
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG21	7	0.13
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG22	7	0.13
(1,496)	1:1398:A:THR:HG21	1:1403:A:VAL:HG23	7	0.13
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG11	7	0.13
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG12	7	0.13
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG13	7	0.13
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG21	7	0.13
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG22	7	0.13
(1,496)	1:1398:A:THR:HG22	1:1403:A:VAL:HG23	7	0.13
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG11	7	0.13
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG12	7	0.13
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG13	7	0.13
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG21	7	0.13
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG22	7	0.13
(1,496)	1:1398:A:THR:HG23	1:1403:A:VAL:HG23	7	0.13
(1,448)	1:1388:A:ASP:HA	1:1389:A:PRO:HG2	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,448)	1:1388:A:ASP:HA	1:1389:A:PRO:HG3	10	0.13
(1,432)	1:1384:A:PHE:HB2	1:1385:A:ALA:H	2	0.13
(1,432)	1:1384:A:PHE:HB3	1:1385:A:ALA:H	2	0.13
(1,366)	1:1375:A:SER:H	1:1375:A:SER:HB3	3	0.13
(1,332)	1:1371:A:LYS:H	1:1371:A:LYS:HE2	7	0.13
(1,332)	1:1371:A:LYS:H	1:1371:A:LYS:HE3	7	0.13
(1,82)	1:1351:A:GLN:HB2	1:1353:A:ARG:H	9	0.13
(1,82)	1:1351:A:GLN:HB3	1:1353:A:ARG:H	9	0.13
(1,36)	2:378:B:LEU:HD11	1:1271:A:ARG:HB2	8	0.13
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD1	6	0.12
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD2	6	0.12
(1,1846)	1:1270:A:LEU:HD11	1:1399:A:PHE:HE1	5	0.12
(1,1846)	1:1270:A:LEU:HD11	1:1399:A:PHE:HE2	5	0.12
(1,1846)	1:1270:A:LEU:HD12	1:1399:A:PHE:HE1	5	0.12
(1,1846)	1:1270:A:LEU:HD12	1:1399:A:PHE:HE2	5	0.12
(1,1846)	1:1270:A:LEU:HD13	1:1399:A:PHE:HE1	5	0.12
(1,1846)	1:1270:A:LEU:HD13	1:1399:A:PHE:HE2	5	0.12
(1,1846)	1:1270:A:LEU:HD21	1:1399:A:PHE:HE1	5	0.12
(1,1846)	1:1270:A:LEU:HD21	1:1399:A:PHE:HE2	5	0.12
(1,1846)	1:1270:A:LEU:HD22	1:1399:A:PHE:HE1	5	0.12
(1,1846)	1:1270:A:LEU:HD22	1:1399:A:PHE:HE2	5	0.12
(1,1846)	1:1270:A:LEU:HD23	1:1399:A:PHE:HE1	5	0.12
(1,1846)	1:1270:A:LEU:HD23	1:1399:A:PHE:HE2	5	0.12
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD11	10	0.12
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD12	10	0.12
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD13	10	0.12
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD21	10	0.12
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD22	10	0.12
(1,1621)	1:1332:A:LEU:HA	1:1332:A:LEU:HD23	10	0.12
(1,1614)	1:1331:A:LYS:H	1:1331:A:LYS:HE2	3	0.12
(1,1553)	1:1325:A:LEU:H	1:1338:A:TYR:H	4	0.12
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG21	6	0.12
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG22	6	0.12
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG23	6	0.12
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG21	6	0.12
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG22	6	0.12
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG23	6	0.12
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG21	6	0.12
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG22	6	0.12
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG23	6	0.12
(1,1486)	1:1322:A:GLY:H	1:1340:A:VAL:HB	4	0.12
(1,1444)	1:1319:A:SER:H	1:1323:A:ILE:HG21	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1444)	1:1319:A:SER:H	1:1323:A:ILE:HG22	1	0.12
(1,1444)	1:1319:A:SER:H	1:1323:A:ILE:HG23	1	0.12
(1,1439)	1:1319:A:SER:H	1:1400:A:ILE:HD11	5	0.12
(1,1439)	1:1319:A:SER:H	1:1400:A:ILE:HD12	5	0.12
(1,1439)	1:1319:A:SER:H	1:1400:A:ILE:HD13	5	0.12
(1,1395)	1:1314:A:VAL:HG11	1:1327:A:ASP:HB2	10	0.12
(1,1395)	1:1314:A:VAL:HG11	1:1327:A:ASP:HB3	10	0.12
(1,1395)	1:1314:A:VAL:HG12	1:1327:A:ASP:HB2	10	0.12
(1,1395)	1:1314:A:VAL:HG12	1:1327:A:ASP:HB3	10	0.12
(1,1395)	1:1314:A:VAL:HG13	1:1327:A:ASP:HB2	10	0.12
(1,1395)	1:1314:A:VAL:HG13	1:1327:A:ASP:HB3	10	0.12
(1,1395)	1:1314:A:VAL:HG21	1:1327:A:ASP:HB2	10	0.12
(1,1395)	1:1314:A:VAL:HG21	1:1327:A:ASP:HB3	10	0.12
(1,1395)	1:1314:A:VAL:HG22	1:1327:A:ASP:HB2	10	0.12
(1,1395)	1:1314:A:VAL:HG22	1:1327:A:ASP:HB3	10	0.12
(1,1395)	1:1314:A:VAL:HG23	1:1327:A:ASP:HB2	10	0.12
(1,1395)	1:1314:A:VAL:HG23	1:1327:A:ASP:HB3	10	0.12
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB2	6	0.12
(1,1299)	1:1306:A:SER:H	1:1306:A:SER:HB3	6	0.12
(1,1271)	1:1303:A:LEU:HD21	1:1305:A:CYS:H	8	0.12
(1,1271)	1:1303:A:LEU:HD22	1:1305:A:CYS:H	8	0.12
(1,1271)	1:1303:A:LEU:HD23	1:1305:A:CYS:H	8	0.12
(1,1264)	1:1303:A:LEU:HD21	1:1353:A:ARG:HG2	6	0.12
(1,1264)	1:1303:A:LEU:HD21	1:1353:A:ARG:HG3	6	0.12
(1,1264)	1:1303:A:LEU:HD22	1:1353:A:ARG:HG2	6	0.12
(1,1264)	1:1303:A:LEU:HD22	1:1353:A:ARG:HG3	6	0.12
(1,1264)	1:1303:A:LEU:HD23	1:1353:A:ARG:HG2	6	0.12
(1,1264)	1:1303:A:LEU:HD23	1:1353:A:ARG:HG3	6	0.12
(1,1185)	1:1298:A:ALA:HB1	1:1381:A:CYS:H	7	0.12
(1,1185)	1:1298:A:ALA:HB2	1:1381:A:CYS:H	7	0.12
(1,1185)	1:1298:A:ALA:HB3	1:1381:A:CYS:H	7	0.12
(1,1145)	1:1296:A:ALA:HB1	1:1351:A:GLN:HE21	1	0.12
(1,1145)	1:1296:A:ALA:HB2	1:1351:A:GLN:HE21	1	0.12
(1,1145)	1:1296:A:ALA:HB3	1:1351:A:GLN:HE21	1	0.12
(1,1034)	1:1289:A:LEU:HD21	1:1297:A:ARG:HD2	5	0.12
(1,1034)	1:1289:A:LEU:HD21	1:1297:A:ARG:HD3	5	0.12
(1,1034)	1:1289:A:LEU:HD22	1:1297:A:ARG:HD2	5	0.12
(1,1034)	1:1289:A:LEU:HD22	1:1297:A:ARG:HD3	5	0.12
(1,1034)	1:1289:A:LEU:HD23	1:1297:A:ARG:HD2	5	0.12
(1,1034)	1:1289:A:LEU:HD23	1:1297:A:ARG:HD3	5	0.12
(1,867)	1:1283:A:SER:H	1:1382:A:HIS:HB2	1	0.12
(1,867)	1:1283:A:SER:H	1:1382:A:HIS:HB3	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,856)	1:1282:A:THR:H	1:1385:A:ALA:H	9	0.12
(1,746)	1:1279:A:LEU:HD21	1:1355:A:TRP:HD1	8	0.12
(1,746)	1:1279:A:LEU:HD22	1:1355:A:TRP:HD1	8	0.12
(1,746)	1:1279:A:LEU:HD23	1:1355:A:TRP:HD1	8	0.12
(1,745)	1:1279:A:LEU:HD11	1:1312:A:ALA:H	8	0.12
(1,745)	1:1279:A:LEU:HD12	1:1312:A:ALA:H	8	0.12
(1,745)	1:1279:A:LEU:HD13	1:1312:A:ALA:H	8	0.12
(1,674)	1:1270:A:LEU:HG	1:1272:A:GLN:H	2	0.12
(1,674)	1:1270:A:LEU:HG	1:1272:A:GLN:H	9	0.12
(1,565)	1:1403:A:VAL:HG11	1:1404:A:LEU:HB3	2	0.12
(1,565)	1:1403:A:VAL:HG12	1:1404:A:LEU:HB3	2	0.12
(1,565)	1:1403:A:VAL:HG13	1:1404:A:LEU:HB3	2	0.12
(1,565)	1:1403:A:VAL:HG21	1:1404:A:LEU:HB3	2	0.12
(1,565)	1:1403:A:VAL:HG22	1:1404:A:LEU:HB3	2	0.12
(1,565)	1:1403:A:VAL:HG23	1:1404:A:LEU:HB3	2	0.12
(1,452)	1:1390:A:ASP:H	1:1391:A:GLN:HG2	1	0.12
(1,452)	1:1390:A:ASP:H	1:1391:A:GLN:HG3	1	0.12
(1,446)	1:1388:A:ASP:HA	1:1389:A:PRO:HG3	10	0.12
(1,366)	1:1375:A:SER:H	1:1375:A:SER:HB3	8	0.12
(1,254)	1:1366:A:PHE:HA	1:1397:A:VAL:HG11	2	0.12
(1,254)	1:1366:A:PHE:HA	1:1397:A:VAL:HG12	2	0.12
(1,254)	1:1366:A:PHE:HA	1:1397:A:VAL:HG13	2	0.12
(1,203)	1:1360:A:GLY:H	1:1361:A:THR:HG21	2	0.12
(1,203)	1:1360:A:GLY:H	1:1361:A:THR:HG22	2	0.12
(1,203)	1:1360:A:GLY:H	1:1361:A:THR:HG23	2	0.12
(1,203)	1:1360:A:GLY:H	1:1361:A:THR:HG21	9	0.12
(1,203)	1:1360:A:GLY:H	1:1361:A:THR:HG22	9	0.12
(1,203)	1:1360:A:GLY:H	1:1361:A:THR:HG23	9	0.12
(1,76)	1:1351:A:GLN:HB3	1:1351:A:GLN:HE21	4	0.12
(1,61)	1:1349:A:ASP:H	1:1349:A:ASP:HB2	9	0.12
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD11	7	0.11
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD12	7	0.11
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD13	7	0.11
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD21	7	0.11
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD22	7	0.11
(1,1856)	1:1403:A:VAL:HG11	2:378:B:LEU:HD23	7	0.11
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD11	7	0.11
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD12	7	0.11
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD13	7	0.11
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD21	7	0.11
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD22	7	0.11
(1,1856)	1:1403:A:VAL:HG12	2:378:B:LEU:HD23	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD11	7	0.11
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD12	7	0.11
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD13	7	0.11
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD21	7	0.11
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD22	7	0.11
(1,1856)	1:1403:A:VAL:HG13	2:378:B:LEU:HD23	7	0.11
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD11	7	0.11
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD12	7	0.11
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD13	7	0.11
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD21	7	0.11
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD22	7	0.11
(1,1856)	1:1403:A:VAL:HG21	2:378:B:LEU:HD23	7	0.11
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD11	7	0.11
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD12	7	0.11
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD13	7	0.11
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD21	7	0.11
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD22	7	0.11
(1,1856)	1:1403:A:VAL:HG22	2:378:B:LEU:HD23	7	0.11
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD11	7	0.11
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD12	7	0.11
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD13	7	0.11
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD21	7	0.11
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD22	7	0.11
(1,1856)	1:1403:A:VAL:HG23	2:378:B:LEU:HD23	7	0.11
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD1	4	0.11
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD2	4	0.11
(1,1851)	1:1272:A:GLN:HG2	2:371:B:PRO:HA	5	0.11
(1,1851)	1:1272:A:GLN:HG3	2:371:B:PRO:HA	5	0.11
(1,1845)	1:1269:A:LEU:HB2	1:1403:A:VAL:HG11	8	0.11
(1,1845)	1:1269:A:LEU:HB2	1:1403:A:VAL:HG12	8	0.11
(1,1845)	1:1269:A:LEU:HB2	1:1403:A:VAL:HG13	8	0.11
(1,1845)	1:1269:A:LEU:HB2	1:1403:A:VAL:HG21	8	0.11
(1,1845)	1:1269:A:LEU:HB2	1:1403:A:VAL:HG22	8	0.11
(1,1845)	1:1269:A:LEU:HB2	1:1403:A:VAL:HG23	8	0.11
(1,1845)	1:1269:A:LEU:HB3	1:1403:A:VAL:HG11	8	0.11
(1,1845)	1:1269:A:LEU:HB3	1:1403:A:VAL:HG12	8	0.11
(1,1845)	1:1269:A:LEU:HB3	1:1403:A:VAL:HG13	8	0.11
(1,1845)	1:1269:A:LEU:HB3	1:1403:A:VAL:HG21	8	0.11
(1,1845)	1:1269:A:LEU:HB3	1:1403:A:VAL:HG22	8	0.11
(1,1845)	1:1269:A:LEU:HB3	1:1403:A:VAL:HG23	8	0.11
(1,1794)	1:1345:A:PHE:H	1:1368:A:PHE:HB2	5	0.11
(1,1794)	1:1345:A:PHE:H	1:1368:A:PHE:HB3	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1616)	1:1331:A:LYS:H	1:1332:A:LEU:HB2	7	0.11
(1,1616)	1:1331:A:LYS:H	1:1332:A:LEU:HB3	7	0.11
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG21	3	0.11
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG22	3	0.11
(1,1511)	1:1323:A:ILE:HG21	1:1324:A:THR:HG23	3	0.11
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG21	3	0.11
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG22	3	0.11
(1,1511)	1:1323:A:ILE:HG22	1:1324:A:THR:HG23	3	0.11
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG21	3	0.11
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG22	3	0.11
(1,1511)	1:1323:A:ILE:HG23	1:1324:A:THR:HG23	3	0.11
(1,1447)	1:1319:A:SER:H	1:1343:A:ILE:HD11	6	0.11
(1,1447)	1:1319:A:SER:H	1:1343:A:ILE:HD12	6	0.11
(1,1447)	1:1319:A:SER:H	1:1343:A:ILE:HD13	6	0.11
(1,1441)	1:1319:A:SER:H	1:1321:A:GLN:H	10	0.11
(1,1357)	1:1312:A:ALA:HB1	1:1332:A:LEU:HD11	8	0.11
(1,1357)	1:1312:A:ALA:HB1	1:1332:A:LEU:HD12	8	0.11
(1,1357)	1:1312:A:ALA:HB1	1:1332:A:LEU:HD13	8	0.11
(1,1357)	1:1312:A:ALA:HB2	1:1332:A:LEU:HD11	8	0.11
(1,1357)	1:1312:A:ALA:HB2	1:1332:A:LEU:HD12	8	0.11
(1,1357)	1:1312:A:ALA:HB2	1:1332:A:LEU:HD13	8	0.11
(1,1357)	1:1312:A:ALA:HB3	1:1332:A:LEU:HD11	8	0.11
(1,1357)	1:1312:A:ALA:HB3	1:1332:A:LEU:HD12	8	0.11
(1,1357)	1:1312:A:ALA:HB3	1:1332:A:LEU:HD13	8	0.11
(1,1297)	1:1306:A:SER:H	1:1306:A:SER:HB3	3	0.11
(1,1271)	1:1303:A:LEU:HD21	1:1305:A:CYS:H	3	0.11
(1,1271)	1:1303:A:LEU:HD22	1:1305:A:CYS:H	3	0.11
(1,1271)	1:1303:A:LEU:HD23	1:1305:A:CYS:H	3	0.11
(1,1271)	1:1303:A:LEU:HD21	1:1305:A:CYS:H	4	0.11
(1,1271)	1:1303:A:LEU:HD22	1:1305:A:CYS:H	4	0.11
(1,1271)	1:1303:A:LEU:HD23	1:1305:A:CYS:H	4	0.11
(1,1270)	1:1303:A:LEU:HD21	1:1383:A:LEU:HD21	10	0.11
(1,1270)	1:1303:A:LEU:HD21	1:1383:A:LEU:HD22	10	0.11
(1,1270)	1:1303:A:LEU:HD21	1:1383:A:LEU:HD23	10	0.11
(1,1270)	1:1303:A:LEU:HD22	1:1383:A:LEU:HD21	10	0.11
(1,1270)	1:1303:A:LEU:HD22	1:1383:A:LEU:HD22	10	0.11
(1,1270)	1:1303:A:LEU:HD22	1:1383:A:LEU:HD23	10	0.11
(1,1270)	1:1303:A:LEU:HD23	1:1383:A:LEU:HD21	10	0.11
(1,1270)	1:1303:A:LEU:HD23	1:1383:A:LEU:HD22	10	0.11
(1,1270)	1:1303:A:LEU:HD23	1:1383:A:LEU:HD23	10	0.11
(1,1238)	1:1302:A:ALA:HB1	1:1383:A:LEU:HD11	1	0.11
(1,1238)	1:1302:A:ALA:HB1	1:1383:A:LEU:HD12	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1238)	1:1302:A:ALA:HB1	1:1383:A:LEU:HD13	1	0.11
(1,1238)	1:1302:A:ALA:HB2	1:1383:A:LEU:HD11	1	0.11
(1,1238)	1:1302:A:ALA:HB2	1:1383:A:LEU:HD12	1	0.11
(1,1238)	1:1302:A:ALA:HB2	1:1383:A:LEU:HD13	1	0.11
(1,1238)	1:1302:A:ALA:HB3	1:1383:A:LEU:HD11	1	0.11
(1,1238)	1:1302:A:ALA:HB3	1:1383:A:LEU:HD12	1	0.11
(1,1238)	1:1302:A:ALA:HB3	1:1383:A:LEU:HD13	1	0.11
(1,1238)	1:1302:A:ALA:HB1	1:1383:A:LEU:HD11	8	0.11
(1,1238)	1:1302:A:ALA:HB1	1:1383:A:LEU:HD12	8	0.11
(1,1238)	1:1302:A:ALA:HB1	1:1383:A:LEU:HD13	8	0.11
(1,1238)	1:1302:A:ALA:HB2	1:1383:A:LEU:HD11	8	0.11
(1,1238)	1:1302:A:ALA:HB2	1:1383:A:LEU:HD12	8	0.11
(1,1238)	1:1302:A:ALA:HB2	1:1383:A:LEU:HD13	8	0.11
(1,1238)	1:1302:A:ALA:HB3	1:1383:A:LEU:HD11	8	0.11
(1,1238)	1:1302:A:ALA:HB3	1:1383:A:LEU:HD12	8	0.11
(1,1238)	1:1302:A:ALA:HB3	1:1383:A:LEU:HD13	8	0.11
(1,1214)	1:1300:A:SER:HA	1:1303:A:LEU:HD21	5	0.11
(1,1214)	1:1300:A:SER:HA	1:1303:A:LEU:HD22	5	0.11
(1,1214)	1:1300:A:SER:HA	1:1303:A:LEU:HD23	5	0.11
(1,1180)	1:1298:A:ALA:HB1	1:1368:A:PHE:H	2	0.11
(1,1180)	1:1298:A:ALA:HB2	1:1368:A:PHE:H	2	0.11
(1,1180)	1:1298:A:ALA:HB3	1:1368:A:PHE:H	2	0.11
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD2	6	0.11
(1,1140)	1:1296:A:ALA:HB1	1:1350:A:PRO:HD3	6	0.11
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD2	6	0.11
(1,1140)	1:1296:A:ALA:HB2	1:1350:A:PRO:HD3	6	0.11
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD2	6	0.11
(1,1140)	1:1296:A:ALA:HB3	1:1350:A:PRO:HD3	6	0.11
(1,1125)	1:1295:A:VAL:HG11	1:1345:A:PHE:HE1	1	0.11
(1,1125)	1:1295:A:VAL:HG11	1:1345:A:PHE:HE2	1	0.11
(1,1125)	1:1295:A:VAL:HG12	1:1345:A:PHE:HE1	1	0.11
(1,1125)	1:1295:A:VAL:HG12	1:1345:A:PHE:HE2	1	0.11
(1,1125)	1:1295:A:VAL:HG13	1:1345:A:PHE:HE1	1	0.11
(1,1125)	1:1295:A:VAL:HG13	1:1345:A:PHE:HE2	1	0.11
(1,1125)	1:1295:A:VAL:HG21	1:1345:A:PHE:HE1	1	0.11
(1,1125)	1:1295:A:VAL:HG21	1:1345:A:PHE:HE2	1	0.11
(1,1125)	1:1295:A:VAL:HG22	1:1345:A:PHE:HE1	1	0.11
(1,1125)	1:1295:A:VAL:HG22	1:1345:A:PHE:HE2	1	0.11
(1,1125)	1:1295:A:VAL:HG23	1:1345:A:PHE:HE1	1	0.11
(1,1125)	1:1295:A:VAL:HG23	1:1345:A:PHE:HE2	1	0.11
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB2	2	0.11
(1,1107)	1:1295:A:VAL:HB	1:1349:A:ASP:HB3	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1061)	1:1291:A:GLY:H	1:1292:A:PRO:HG2	4	0.11
(1,1061)	1:1291:A:GLY:H	1:1292:A:PRO:HG3	4	0.11
(1,1010)	1:1289:A:LEU:HD11	1:1293:A:GLN:HE21	2	0.11
(1,1010)	1:1289:A:LEU:HD12	1:1293:A:GLN:HE21	2	0.11
(1,1010)	1:1289:A:LEU:HD13	1:1293:A:GLN:HE21	2	0.11
(1,980)	1:1287:A:GLU:H	1:1378:A:GLU:HB2	7	0.11
(1,974)	1:1287:A:GLU:HA	1:1287:A:GLU:HG2	7	0.11
(1,917)	1:1285:A:GLU:HB3	1:1286:A:THR:HG21	3	0.11
(1,917)	1:1285:A:GLU:HB3	1:1286:A:THR:HG22	3	0.11
(1,917)	1:1285:A:GLU:HB3	1:1286:A:THR:HG23	3	0.11
(1,809)	1:1281:A:LEU:HA	1:1312:A:ALA:H	5	0.11
(1,787)	1:1280:A:TYR:HD1	1:1332:A:LEU:HD11	1	0.11
(1,787)	1:1280:A:TYR:HD1	1:1332:A:LEU:HD12	1	0.11
(1,787)	1:1280:A:TYR:HD1	1:1332:A:LEU:HD13	1	0.11
(1,787)	1:1280:A:TYR:HD2	1:1332:A:LEU:HD11	1	0.11
(1,787)	1:1280:A:TYR:HD2	1:1332:A:LEU:HD12	1	0.11
(1,787)	1:1280:A:TYR:HD2	1:1332:A:LEU:HD13	1	0.11
(1,755)	1:1279:A:LEU:HD11	1:1355:A:TRP:HE1	7	0.11
(1,755)	1:1279:A:LEU:HD12	1:1355:A:TRP:HE1	7	0.11
(1,755)	1:1279:A:LEU:HD13	1:1355:A:TRP:HE1	7	0.11
(1,755)	1:1279:A:LEU:HD21	1:1355:A:TRP:HE1	7	0.11
(1,755)	1:1279:A:LEU:HD22	1:1355:A:TRP:HE1	7	0.11
(1,755)	1:1279:A:LEU:HD23	1:1355:A:TRP:HE1	7	0.11
(1,702)	1:1277:A:SER:HA	1:1278:A:VAL:HG11	8	0.11
(1,702)	1:1277:A:SER:HA	1:1278:A:VAL:HG12	8	0.11
(1,702)	1:1277:A:SER:HA	1:1278:A:VAL:HG13	8	0.11
(1,702)	1:1277:A:SER:HA	1:1278:A:VAL:HG21	8	0.11
(1,702)	1:1277:A:SER:HA	1:1278:A:VAL:HG22	8	0.11
(1,702)	1:1277:A:SER:HA	1:1278:A:VAL:HG23	8	0.11
(1,694)	1:1272:A:GLN:HB2	1:1273:A:GLY:H	2	0.11
(1,694)	1:1272:A:GLN:HB3	1:1273:A:GLY:H	2	0.11
(1,596)	1:1263:A:MET:HA	1:1264:A:SER:H	10	0.11
(1,567)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD21	4	0.11
(1,567)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD22	4	0.11
(1,567)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD23	4	0.11
(1,567)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD21	4	0.11
(1,567)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD22	4	0.11
(1,567)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD23	4	0.11
(1,567)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD21	4	0.11
(1,567)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD22	4	0.11
(1,567)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD23	4	0.11
(1,567)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD21	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,567)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD22	4	0.11
(1,567)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD23	4	0.11
(1,567)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD21	4	0.11
(1,567)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD22	4	0.11
(1,567)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD23	4	0.11
(1,567)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD21	4	0.11
(1,567)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD22	4	0.11
(1,567)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD23	4	0.11
(1,566)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD11	3	0.11
(1,566)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD12	3	0.11
(1,566)	1:1403:A:VAL:HG11	1:1404:A:LEU:HD13	3	0.11
(1,566)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD11	3	0.11
(1,566)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD12	3	0.11
(1,566)	1:1403:A:VAL:HG12	1:1404:A:LEU:HD13	3	0.11
(1,566)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD11	3	0.11
(1,566)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD12	3	0.11
(1,566)	1:1403:A:VAL:HG13	1:1404:A:LEU:HD13	3	0.11
(1,566)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD11	3	0.11
(1,566)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD12	3	0.11
(1,566)	1:1403:A:VAL:HG21	1:1404:A:LEU:HD13	3	0.11
(1,566)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD11	3	0.11
(1,566)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD12	3	0.11
(1,566)	1:1403:A:VAL:HG22	1:1404:A:LEU:HD13	3	0.11
(1,566)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD11	3	0.11
(1,566)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD12	3	0.11
(1,566)	1:1403:A:VAL:HG23	1:1404:A:LEU:HD13	3	0.11
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG21	7	0.11
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG22	7	0.11
(1,522)	1:1400:A:ILE:H	1:1400:A:ILE:HG23	7	0.11
(1,450)	1:1389:A:PRO:HG2	1:1390:A:ASP:H	8	0.11
(1,450)	1:1389:A:PRO:HG3	1:1390:A:ASP:H	8	0.11
(1,386)	1:1378:A:GLU:H	1:1378:A:GLU:HG3	4	0.11
(1,333)	1:1371:A:LYS:H	1:1371:A:LYS:HG2	7	0.11
(1,333)	1:1371:A:LYS:H	1:1371:A:LYS:HG3	7	0.11
(1,323)	1:1371:A:LYS:HG2	1:1379:A:ASN:HA	7	0.11
(1,322)	1:1371:A:LYS:HG3	1:1380:A:VAL:H	7	0.11
(1,247)	1:1365:A:ILE:HG21	1:1366:A:PHE:HD1	9	0.11
(1,247)	1:1365:A:ILE:HG21	1:1366:A:PHE:HD2	9	0.11
(1,247)	1:1365:A:ILE:HG22	1:1366:A:PHE:HD1	9	0.11
(1,247)	1:1365:A:ILE:HG22	1:1366:A:PHE:HD2	9	0.11
(1,247)	1:1365:A:ILE:HG23	1:1366:A:PHE:HD1	9	0.11
(1,247)	1:1365:A:ILE:HG23	1:1366:A:PHE:HD2	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,225)	1:1364:A:LYS:HA	1:1393:A:ALA:HB1	10	0.11
(1,225)	1:1364:A:LYS:HA	1:1393:A:ALA:HB2	10	0.11
(1,225)	1:1364:A:LYS:HA	1:1393:A:ALA:HB3	10	0.11
(1,90)	1:1352:A:ASP:H	1:1353:A:ARG:HG2	1	0.11
(1,90)	1:1352:A:ASP:H	1:1353:A:ARG:HG3	1	0.11
(1,90)	1:1352:A:ASP:H	1:1353:A:ARG:HG2	3	0.11
(1,90)	1:1352:A:ASP:H	1:1353:A:ARG:HG3	3	0.11
(1,64)	1:1349:A:ASP:H	1:1367:A:GLY:H	7	0.11
(1,13)	1:1324:A:THR:HG1	2:374:B:PHE:HZ	6	0.11
(1,1855)	1:1389:A:PRO:HG2	2:367:B:GLU:HB2	7	0.1
(1,1855)	1:1389:A:PRO:HG2	2:367:B:GLU:HB3	7	0.1
(1,1855)	1:1389:A:PRO:HG3	2:367:B:GLU:HB2	7	0.1
(1,1855)	1:1389:A:PRO:HG3	2:367:B:GLU:HB3	7	0.1
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD1	3	0.1
(1,1852)	1:1275:A:ALA:HA	2:374:B:PHE:HD2	3	0.1
(1,1794)	1:1345:A:PHE:H	1:1368:A:PHE:HB2	1	0.1
(1,1794)	1:1345:A:PHE:H	1:1368:A:PHE:HB3	1	0.1
(1,1704)	1:1341:A:ASN:H	1:1341:A:ASN:HD22	5	0.1
(1,1291)	1:1305:A:CYS:HB2	1:1306:A:SER:H	4	0.1
(1,1214)	1:1300:A:SER:HA	1:1303:A:LEU:HD21	9	0.1
(1,1214)	1:1300:A:SER:HA	1:1303:A:LEU:HD22	9	0.1
(1,1214)	1:1300:A:SER:HA	1:1303:A:LEU:HD23	9	0.1
(1,1194)	1:1298:A:ALA:H	1:1301:A:ALA:HB1	9	0.1
(1,1194)	1:1298:A:ALA:H	1:1301:A:ALA:HB2	9	0.1
(1,1194)	1:1298:A:ALA:H	1:1301:A:ALA:HB3	9	0.1
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG11	8	0.1
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG12	8	0.1
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG13	8	0.1
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG21	8	0.1
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG22	8	0.1
(1,983)	1:1287:A:GLU:H	1:1380:A:VAL:HG23	8	0.1
(1,856)	1:1282:A:THR:H	1:1385:A:ALA:H	3	0.1
(1,683)	1:1271:A:ARG:HB2	1:1272:A:GLN:HG2	6	0.1
(1,683)	1:1271:A:ARG:HB2	1:1272:A:GLN:HG3	6	0.1
(1,683)	1:1271:A:ARG:HB3	1:1272:A:GLN:HG2	6	0.1
(1,683)	1:1271:A:ARG:HB3	1:1272:A:GLN:HG3	6	0.1
(1,627)	1:1265:A:THR:H	1:1265:A:THR:HG21	1	0.1
(1,627)	1:1265:A:THR:H	1:1265:A:THR:HG22	1	0.1
(1,627)	1:1265:A:THR:H	1:1265:A:THR:HG23	1	0.1
(1,619)	1:1264:A:SER:HA	1:1265:A:THR:H	7	0.1
(1,585)	1:1406:A:GLY:HA3	1:1408:A:ARG:H	6	0.1
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD21	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD22	4	0.1
(1,573)	1:1404:A:LEU:HA	1:1404:A:LEU:HD23	4	0.1
(1,276)	1:1368:A:PHE:HD1	1:1370:A:ALA:HB1	5	0.1
(1,276)	1:1368:A:PHE:HD1	1:1370:A:ALA:HB2	5	0.1
(1,276)	1:1368:A:PHE:HD1	1:1370:A:ALA:HB3	5	0.1
(1,276)	1:1368:A:PHE:HD2	1:1370:A:ALA:HB1	5	0.1
(1,276)	1:1368:A:PHE:HD2	1:1370:A:ALA:HB2	5	0.1
(1,276)	1:1368:A:PHE:HD2	1:1370:A:ALA:HB3	5	0.1
(1,82)	1:1351:A:GLN:HB2	1:1353:A:ARG:H	8	0.1
(1,82)	1:1351:A:GLN:HB3	1:1353:A:ARG:H	8	0.1
(1,64)	1:1349:A:ASP:H	1:1367:A:GLY:H	10	0.1
(1,61)	1:1349:A:ASP:H	1:1349:A:ASP:HB2	2	0.1
(1,61)	1:1349:A:ASP:H	1:1349:A:ASP:HB2	4	0.1
(1,10)	1:1319:A:SER:HB3	2:378:B:LEU:HD13	9	0.1

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

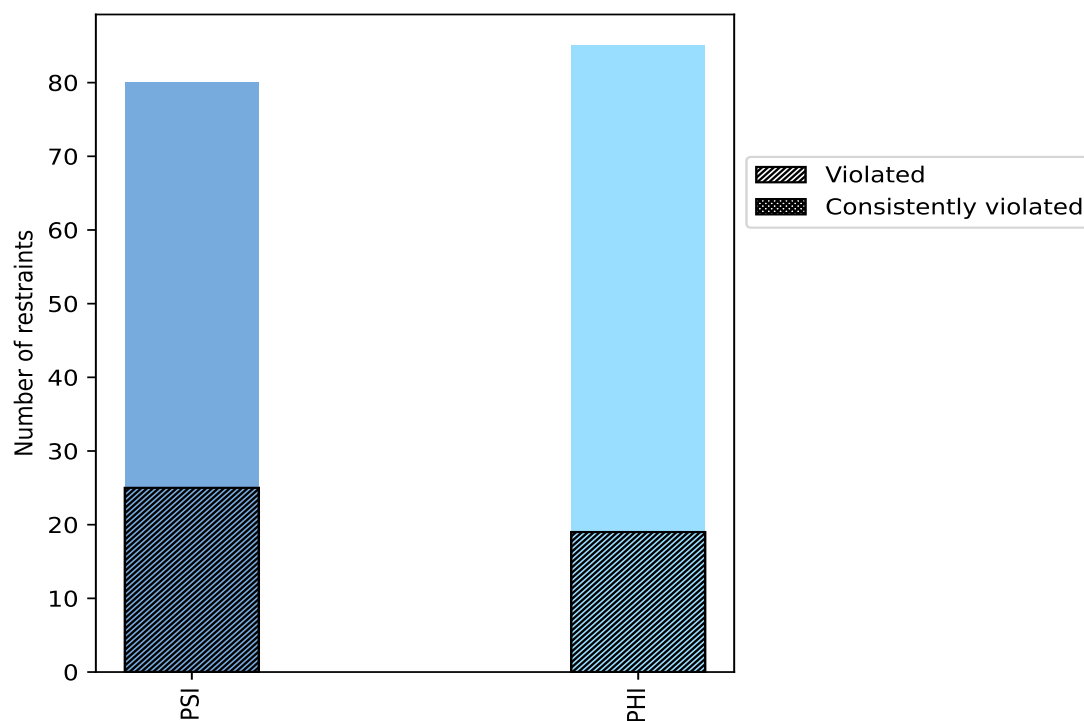
10.1 Summary of dihedral-angle violations [i](#)

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	80	48.5	25	31.2	15.2	0	0.0	0.0
PHI	85	51.5	19	22.4	11.5	0	0.0	0.0
Total	165	100.0	44	26.7	26.7	0	0.0	0.0

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

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



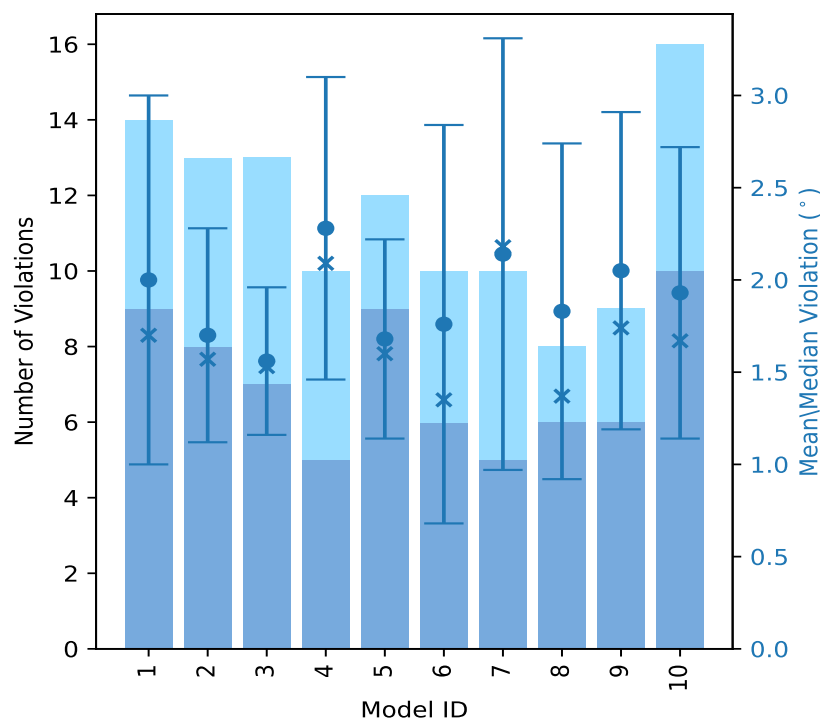
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	9	5	14	2.0	4.54	1.0	1.7
2	8	5	13	1.7	3.07	0.58	1.57
3	7	6	13	1.56	2.22	0.4	1.53
4	5	5	10	2.28	3.34	0.82	2.09
5	9	3	12	1.68	2.52	0.54	1.6
6	6	4	10	1.76	4.88	1.08	1.35
7	5	5	10	2.14	4.97	1.17	2.18
8	6	2	8	1.83	4.06	0.91	1.37
9	6	3	9	2.05	3.97	0.86	1.74
10	10	6	16	1.93	3.94	0.79	1.67

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

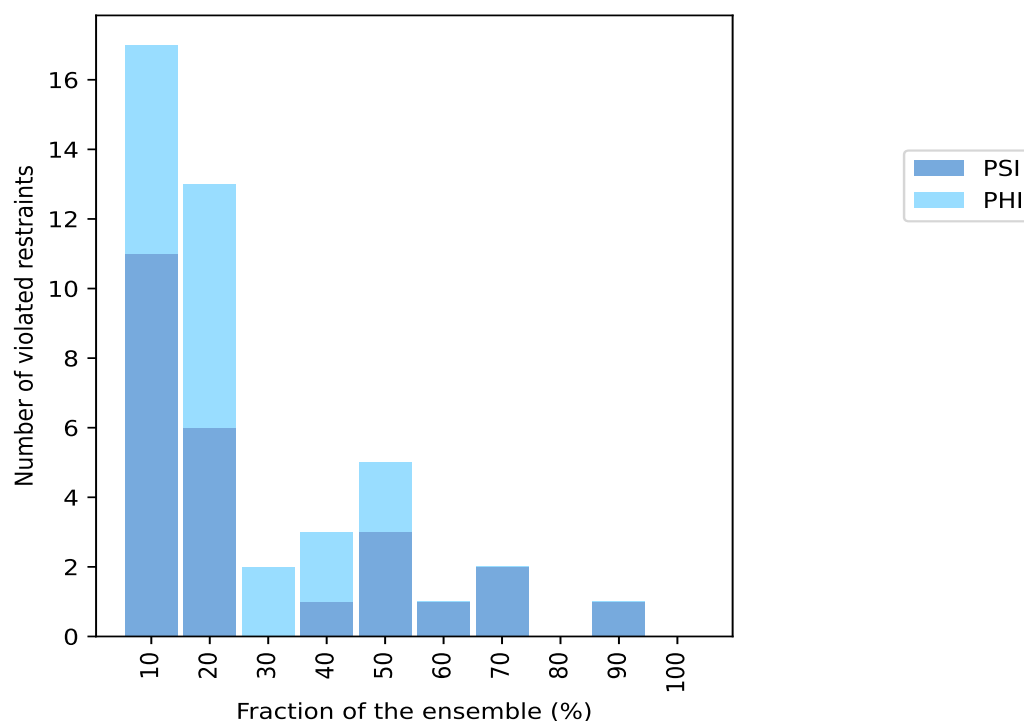
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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	%
11	6	17	1	10.0
6	7	13	2	20.0
0	2	2	3	30.0
1	2	3	4	40.0
3	2	5	5	50.0
1	0	1	6	60.0
2	0	2	7	70.0
0	0	0	8	80.0
1	0	1	9	90.0
0	0	0	10	100.0

¹ Number of models with violations

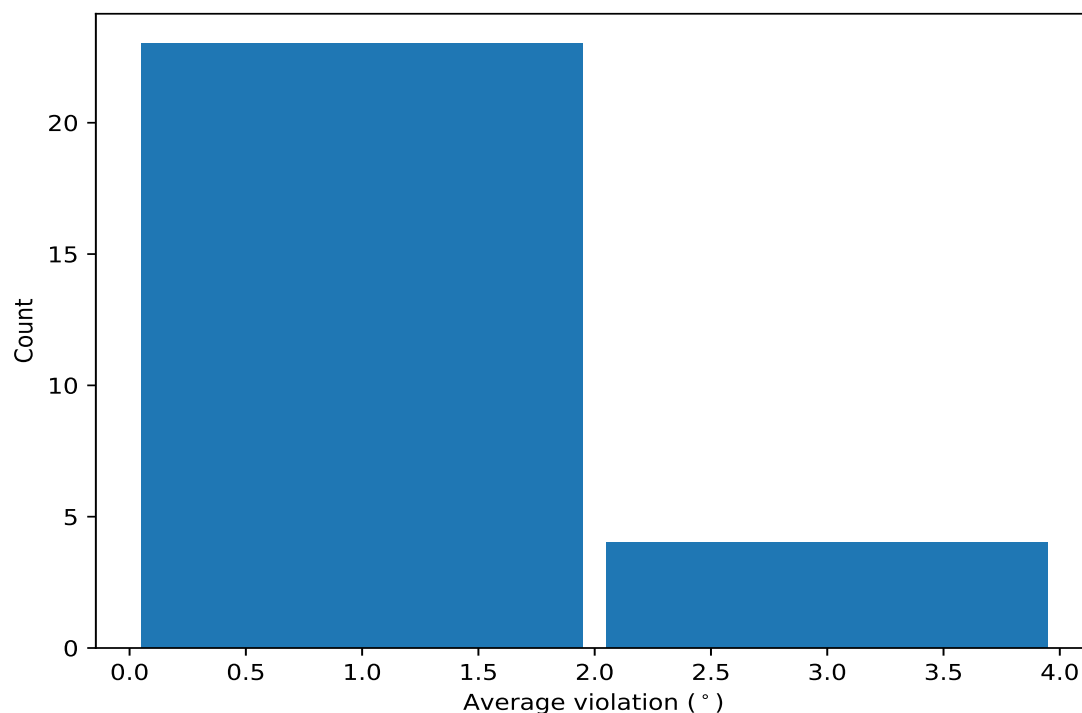
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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

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

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



10.4.2 Table: Most violated dihedral-angle restraints [i](#)

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,150)	1:1397:A:VAL:N	1:1397:A:VAL:CA	1:1397:A:VAL:C	1:1398:A:THR:N	9	1.83	0.83	1.71
(1,120)	1:1365:A:ILE:N	1:1365:A:ILE:CA	1:1365:A:ILE:C	1:1366:A:PHE:N	7	3.18	0.79	3.07
(1,96)	1:1345:A:PHE:N	1:1345:A:PHE:CA	1:1345:A:PHE:C	1:1346:A:SER:N	7	1.88	0.79	1.74
(1,88)	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	1:1333:A:PHE:N	6	3.25	1.44	3.64
(1,101)	1:1351:A:GLN:N	1:1351:A:GLN:CA	1:1351:A:GLN:C	1:1352:A:ASP:N	5	1.9	0.5	1.9
(1,87)	1:1331:A:LYS:C	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	5	1.74	0.77	1.52
(1,26)	1:1288:A:SER:N	1:1288:A:SER:CA	1:1288:A:SER:C	1:1289:A:LEU:N	5	1.68	0.46	1.64
(1,158)	1:1401:A:THR:C	1:1402:A:LYS:N	1:1402:A:LYS:CA	1:1402:A:LYS:C	5	1.67	0.45	1.44
(1,153)	1:1399:A:PHE:N	1:1399:A:PHE:CA	1:1399:A:PHE:C	1:1400:A:ILE:N	5	1.61	0.34	1.39
(1,121)	1:1365:A:ILE:C	1:1366:A:PHE:N	1:1366:A:PHE:CA	1:1366:A:PHE:C	4	1.9	0.32	1.8
(1,49)	1:1302:A:ALA:C	1:1303:A:LEU:N	1:1303:A:LEU:CA	1:1303:A:LEU:C	4	1.61	0.36	1.48
(1,152)	1:1398:A:THR:N	1:1398:A:THR:CA	1:1398:A:THR:C	1:1399:A:PHE:N	4	1.13	0.16	1.06
(1,85)	1:1330:A:ARG:C	1:1331:A:LYS:N	1:1331:A:LYS:CA	1:1331:A:LYS:C	3	1.38	0.09	1.34

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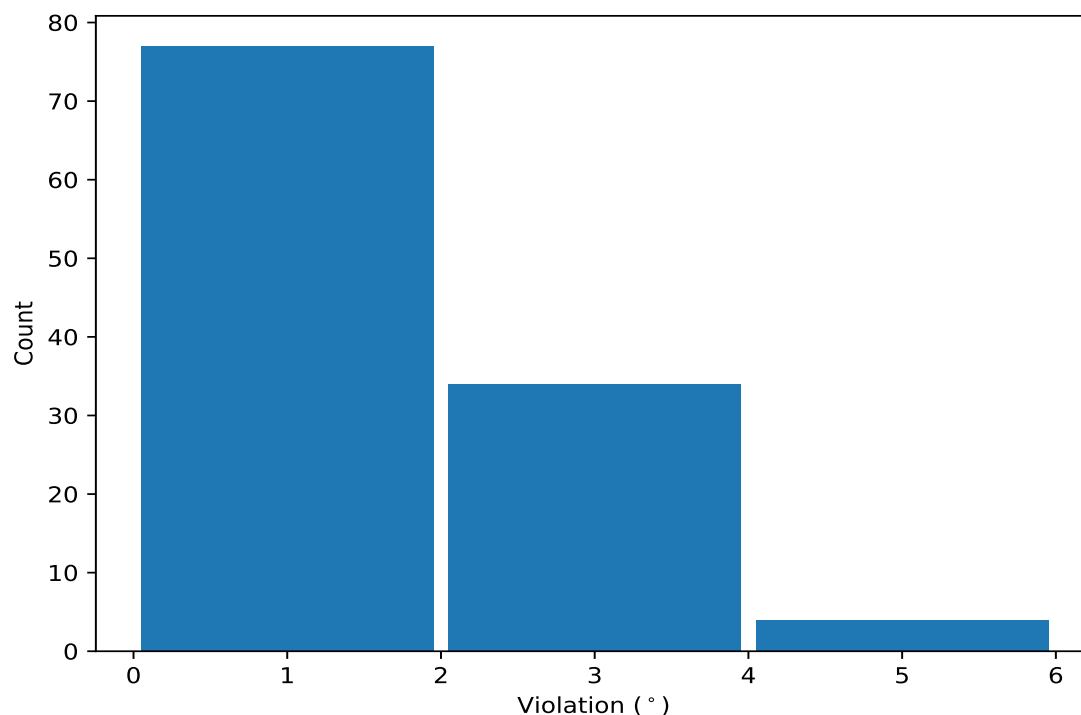
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Medi
(1,69)	1:1318:A:VAL:C	1:1319:A:SER:N	1:1319:A:SER:CA	1:1319:A:SER:C	3	1.37	0.36	1.14
(1,11)	1:1272:A:GLN:N	1:1272:A:GLN:CA	1:1272:A:GLN:C	1:1273:A:GLY:N	2	2.86	1.2	2.86
(1,89)	1:1333:A:PHE:C	1:1334:A:PHE:N	1:1334:A:PHE:CA	1:1334:A:PHE:C	2	2.77	0.51	2.77
(1,4)	1:1267:A:ALA:N	1:1267:A:ALA:CA	1:1267:A:ALA:C	1:1268:A:ASP:N	2	1.95	0.19	1.95
(1,75)	1:1322:A:GLY:C	1:1323:A:ILE:N	1:1323:A:ILE:CA	1:1323:A:ILE:C	2	1.88	0.01	1.88
(1,162)	1:1403:A:VAL:C	1:1404:A:LEU:N	1:1404:A:LEU:CA	1:1404:A:LEU:C	2	1.76	0.32	1.76
(1,65)	1:1316:A:PHE:C	1:1317:A:LYS:N	1:1317:A:LYS:CA	1:1317:A:LYS:C	2	1.68	0.43	1.68
(1,60)	1:1314:A:VAL:N	1:1314:A:VAL:CA	1:1314:A:VAL:C	1:1315:A:HIS:N	2	1.54	0.19	1.54
(1,111)	1:1359:A:ASP:N	1:1359:A:ASP:CA	1:1359:A:ASP:C	1:1360:A:GLY:N	2	1.52	0.51	1.52
(1,14)	1:1275:A:ALA:C	1:1276:A:CYS:N	1:1276:A:CYS:CA	1:1276:A:CYS:C	2	1.5	0.36	1.5
(1,159)	1:1402:A:LYS:N	1:1402:A:LYS:CA	1:1402:A:LYS:C	1:1403:A:VAL:N	2	1.4	0.21	1.4
(1,16)	1:1278:A:VAL:N	1:1278:A:VAL:CA	1:1278:A:VAL:C	1:1279:A:LEU:N	2	1.39	0.14	1.39
(1,112)	1:1359:A:ASP:C	1:1360:A:GLY:N	1:1360:A:GLY:CA	1:1360:A:GLY:C	2	1.19	0.04	1.19
(1,77)	1:1323:A:ILE:C	1:1324:A:THR:N	1:1324:A:THR:CA	1:1324:A:THR:C	2	1.16	0.09	1.16

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

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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,88)	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	1:1333:A:PHE:N	7	4.97
(1,120)	1:1365:A:ILE:N	1:1365:A:ILE:CA	1:1365:A:ILE:C	1:1366:A:PHE:N	6	4.88
(1,88)	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	1:1333:A:PHE:N	1	4.54
(1,11)	1:1272:A:GLN:N	1:1272:A:GLN:CA	1:1272:A:GLN:C	1:1273:A:GLY:N	8	4.06
(1,150)	1:1397:A:VAL:N	1:1397:A:VAL:CA	1:1397:A:VAL:C	1:1398:A:THR:N	9	3.97
(1,88)	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	1:1333:A:PHE:N	10	3.94
(1,86)	1:1331:A:LYS:N	1:1331:A:LYS:CA	1:1331:A:LYS:C	1:1332:A:LEU:N	10	3.36
(1,96)	1:1345:A:PHE:N	1:1345:A:PHE:CA	1:1345:A:PHE:C	1:1346:A:SER:N	1	3.35
(1,88)	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	1:1333:A:PHE:N	4	3.34
(1,89)	1:1333:A:PHE:C	1:1334:A:PHE:N	1:1334:A:PHE:CA	1:1334:A:PHE:C	4	3.28
(1,120)	1:1365:A:ILE:N	1:1365:A:ILE:CA	1:1365:A:ILE:C	1:1366:A:PHE:N	4	3.27
(1,120)	1:1365:A:ILE:N	1:1365:A:ILE:CA	1:1365:A:ILE:C	1:1366:A:PHE:N	1	3.23
(1,87)	1:1331:A:LYS:C	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	10	3.14
(1,120)	1:1365:A:ILE:N	1:1365:A:ILE:CA	1:1365:A:ILE:C	1:1366:A:PHE:N	2	3.07
(1,120)	1:1365:A:ILE:N	1:1365:A:ILE:CA	1:1365:A:ILE:C	1:1366:A:PHE:N	7	2.96
(1,91)	1:1337:A:HIS:C	1:1338:A:TYR:N	1:1338:A:TYR:CA	1:1338:A:TYR:C	4	2.94
(1,120)	1:1365:A:ILE:N	1:1365:A:ILE:CA	1:1365:A:ILE:C	1:1366:A:PHE:N	9	2.74
(1,9)	1:1270:A:LEU:C	1:1271:A:ARG:N	1:1271:A:ARG:CA	1:1271:A:ARG:C	5	2.52
(1,101)	1:1351:A:GLN:N	1:1351:A:GLN:CA	1:1351:A:GLN:C	1:1352:A:ASP:N	7	2.51
(1,163)	1:1404:A:LEU:N	1:1404:A:LEU:CA	1:1404:A:LEU:C	1:1405:A:LEU:N	5	2.49
(1,158)	1:1401:A:THR:C	1:1402:A:LYS:N	1:1402:A:LYS:CA	1:1402:A:LYS:C	7	2.44
(1,121)	1:1365:A:ILE:C	1:1366:A:PHE:N	1:1366:A:PHE:CA	1:1366:A:PHE:C	9	2.39
(1,101)	1:1351:A:GLN:N	1:1351:A:GLN:CA	1:1351:A:GLN:C	1:1352:A:ASP:N	2	2.38
(1,96)	1:1345:A:PHE:N	1:1345:A:PHE:CA	1:1345:A:PHE:C	1:1346:A:SER:N	2	2.38
(1,96)	1:1345:A:PHE:N	1:1345:A:PHE:CA	1:1345:A:PHE:C	1:1346:A:SER:N	4	2.32
(1,8)	1:1269:A:LEU:N	1:1269:A:LEU:CA	1:1269:A:LEU:C	1:1270:A:LEU:N	5	2.27
(1,89)	1:1333:A:PHE:C	1:1334:A:PHE:N	1:1334:A:PHE:CA	1:1334:A:PHE:C	7	2.26
(1,26)	1:1288:A:SER:N	1:1288:A:SER:CA	1:1288:A:SER:C	1:1289:A:LEU:N	9	2.23
(1,49)	1:1302:A:ALA:C	1:1303:A:LEU:N	1:1303:A:LEU:CA	1:1303:A:LEU:C	3	2.22
(1,153)	1:1399:A:PHE:N	1:1399:A:PHE:CA	1:1399:A:PHE:C	1:1400:A:ILE:N	1	2.21
(1,150)	1:1397:A:VAL:N	1:1397:A:VAL:CA	1:1397:A:VAL:C	1:1398:A:THR:N	8	2.17
(1,26)	1:1288:A:SER:N	1:1288:A:SER:CA	1:1288:A:SER:C	1:1289:A:LEU:N	5	2.16
(1,4)	1:1267:A:ALA:N	1:1267:A:ALA:CA	1:1267:A:ALA:C	1:1268:A:ASP:N	1	2.14
(1,120)	1:1365:A:ILE:N	1:1365:A:ILE:CA	1:1365:A:ILE:C	1:1366:A:PHE:N	3	2.1
(1,65)	1:1316:A:PHE:C	1:1317:A:LYS:N	1:1317:A:LYS:CA	1:1317:A:LYS:C	7	2.1
(1,162)	1:1403:A:VAL:C	1:1404:A:LEU:N	1:1404:A:LEU:CA	1:1404:A:LEU:C	3	2.08
(1,111)	1:1359:A:ASP:N	1:1359:A:ASP:CA	1:1359:A:ASP:C	1:1360:A:GLY:N	8	2.03
(1,80)	1:1326:A:THR:N	1:1326:A:THR:CA	1:1326:A:THR:C	1:1327:A:ASP:N	10	2.0
(1,150)	1:1397:A:VAL:N	1:1397:A:VAL:CA	1:1397:A:VAL:C	1:1398:A:THR:N	2	1.99
(1,121)	1:1365:A:ILE:C	1:1366:A:PHE:N	1:1366:A:PHE:CA	1:1366:A:PHE:C	1	1.94
(1,87)	1:1331:A:LYS:C	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	3	1.94
(1,101)	1:1351:A:GLN:N	1:1351:A:GLN:CA	1:1351:A:GLN:C	1:1352:A:ASP:N	10	1.9
(1,75)	1:1322:A:GLY:C	1:1323:A:ILE:N	1:1323:A:ILE:CA	1:1323:A:ILE:C	10	1.89
(1,69)	1:1318:A:VAL:C	1:1319:A:SER:N	1:1319:A:SER:CA	1:1319:A:SER:C	10	1.88
(1,158)	1:1401:A:THR:C	1:1402:A:LYS:N	1:1402:A:LYS:CA	1:1402:A:LYS:C	6	1.87
(1,75)	1:1322:A:GLY:C	1:1323:A:ILE:N	1:1323:A:ILE:CA	1:1323:A:ILE:C	4	1.87
(1,14)	1:1275:A:ALA:C	1:1276:A:CYS:N	1:1276:A:CYS:CA	1:1276:A:CYS:C	4	1.86

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,125)	1:1368:A:PHE:C	1:1369:A:VAL:N	1:1369:A:VAL:CA	1:1369:A:VAL:C	6	1.83
(1,4)	1:1267:A:ALA:N	1:1267:A:ALA:CA	1:1267:A:ALA:C	1:1268:A:ASP:N	5	1.76
(1,150)	1:1397:A:VAL:N	1:1397:A:VAL:CA	1:1397:A:VAL:C	1:1398:A:THR:N	1	1.75
(1,153)	1:1399:A:PHE:N	1:1399:A:PHE:CA	1:1399:A:PHE:C	1:1400:A:ILE:N	6	1.74
(1,96)	1:1345:A:PHE:N	1:1345:A:PHE:CA	1:1345:A:PHE:C	1:1346:A:SER:N	9	1.74
(1,60)	1:1314:A:VAL:N	1:1314:A:VAL:CA	1:1314:A:VAL:C	1:1315:A:HIS:N	10	1.73
(1,150)	1:1397:A:VAL:N	1:1397:A:VAL:CA	1:1397:A:VAL:C	1:1398:A:THR:N	5	1.71
(1,121)	1:1365:A:ILE:C	1:1366:A:PHE:N	1:1366:A:PHE:CA	1:1366:A:PHE:C	3	1.67
(1,11)	1:1272:A:GLN:N	1:1272:A:GLN:CA	1:1272:A:GLN:C	1:1273:A:GLY:N	1	1.66
(1,88)	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	1:1333:A:PHE:N	9	1.64
(1,26)	1:1288:A:SER:N	1:1288:A:SER:CA	1:1288:A:SER:C	1:1289:A:LEU:N	3	1.64
(1,159)	1:1402:A:LYS:N	1:1402:A:LYS:CA	1:1402:A:LYS:C	1:1403:A:VAL:N	10	1.61
(1,34)	1:1295:A:VAL:N	1:1295:A:VAL:CA	1:1295:A:VAL:C	1:1296:A:ALA:N	2	1.6
(1,121)	1:1365:A:ILE:C	1:1366:A:PHE:N	1:1366:A:PHE:CA	1:1366:A:PHE:C	2	1.58
(1,1)	1:1265:A:THR:C	1:1266:A:ALA:N	1:1266:A:ALA:CA	1:1266:A:ALA:C	2	1.57
(1,49)	1:1302:A:ALA:C	1:1303:A:LEU:N	1:1303:A:LEU:CA	1:1303:A:LEU:C	2	1.56
(1,101)	1:1351:A:GLN:N	1:1351:A:GLN:CA	1:1351:A:GLN:C	1:1352:A:ASP:N	9	1.53
(1,16)	1:1278:A:VAL:N	1:1278:A:VAL:CA	1:1278:A:VAL:C	1:1279:A:LEU:N	3	1.53
(1,87)	1:1331:A:LYS:C	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	4	1.52
(1,155)	1:1400:A:ILE:N	1:1400:A:ILE:CA	1:1400:A:ILE:C	1:1401:A:THR:N	5	1.5
(1,85)	1:1330:A:ARG:C	1:1331:A:LYS:N	1:1331:A:LYS:CA	1:1331:A:LYS:C	10	1.5
(1,162)	1:1403:A:VAL:C	1:1404:A:LEU:N	1:1404:A:LEU:CA	1:1404:A:LEU:C	6	1.45
(1,158)	1:1401:A:THR:C	1:1402:A:LYS:N	1:1402:A:LYS:CA	1:1402:A:LYS:C	3	1.44
(1,150)	1:1397:A:VAL:N	1:1397:A:VAL:CA	1:1397:A:VAL:C	1:1398:A:THR:N	10	1.43
(1,152)	1:1398:A:THR:N	1:1398:A:THR:CA	1:1398:A:THR:C	1:1399:A:PHE:N	8	1.41
(1,158)	1:1401:A:THR:C	1:1402:A:LYS:N	1:1402:A:LYS:CA	1:1402:A:LYS:C	10	1.4
(1,153)	1:1399:A:PHE:N	1:1399:A:PHE:CA	1:1399:A:PHE:C	1:1400:A:ILE:N	10	1.39
(1,49)	1:1302:A:ALA:C	1:1303:A:LEU:N	1:1303:A:LEU:CA	1:1303:A:LEU:C	1	1.39
(1,153)	1:1399:A:PHE:N	1:1399:A:PHE:CA	1:1399:A:PHE:C	1:1400:A:ILE:N	4	1.36
(1,60)	1:1314:A:VAL:N	1:1314:A:VAL:CA	1:1314:A:VAL:C	1:1315:A:HIS:N	2	1.35
(1,85)	1:1330:A:ARG:C	1:1331:A:LYS:N	1:1331:A:LYS:CA	1:1331:A:LYS:C	2	1.34
(1,26)	1:1288:A:SER:N	1:1288:A:SER:CA	1:1288:A:SER:C	1:1289:A:LEU:N	10	1.34
(1,153)	1:1399:A:PHE:N	1:1399:A:PHE:CA	1:1399:A:PHE:C	1:1400:A:ILE:N	8	1.33
(1,96)	1:1345:A:PHE:N	1:1345:A:PHE:CA	1:1345:A:PHE:C	1:1346:A:SER:N	8	1.3
(1,85)	1:1330:A:ARG:C	1:1331:A:LYS:N	1:1331:A:LYS:CA	1:1331:A:LYS:C	5	1.3
(1,49)	1:1302:A:ALA:C	1:1303:A:LEU:N	1:1303:A:LEU:CA	1:1303:A:LEU:C	8	1.28
(1,77)	1:1323:A:ILE:C	1:1324:A:THR:N	1:1324:A:THR:CA	1:1324:A:THR:C	1	1.26
(1,65)	1:1316:A:PHE:C	1:1317:A:LYS:N	1:1317:A:LYS:CA	1:1317:A:LYS:C	10	1.25
(1,16)	1:1278:A:VAL:N	1:1278:A:VAL:CA	1:1278:A:VAL:C	1:1279:A:LEU:N	6	1.25
(1,112)	1:1359:A:ASP:C	1:1360:A:GLY:N	1:1360:A:GLY:CA	1:1360:A:GLY:C	3	1.23
(1,150)	1:1397:A:VAL:N	1:1397:A:VAL:CA	1:1397:A:VAL:C	1:1398:A:THR:N	3	1.22
(1,10)	1:1271:A:ARG:N	1:1271:A:ARG:CA	1:1271:A:ARG:C	1:1272:A:GLN:N	1	1.22
(1,159)	1:1402:A:LYS:N	1:1402:A:LYS:CA	1:1402:A:LYS:C	1:1403:A:VAL:N	5	1.2
(1,150)	1:1397:A:VAL:N	1:1397:A:VAL:CA	1:1397:A:VAL:C	1:1398:A:THR:N	6	1.2
(1,161)	1:1403:A:VAL:N	1:1403:A:VAL:CA	1:1403:A:VAL:C	1:1404:A:LEU:N	3	1.18
(1,158)	1:1401:A:THR:C	1:1402:A:LYS:N	1:1402:A:LYS:CA	1:1402:A:LYS:C	5	1.18
(1,101)	1:1351:A:GLN:N	1:1351:A:GLN:CA	1:1351:A:GLN:C	1:1352:A:ASP:N	6	1.18
(1,12)	1:1272:A:GLN:C	1:1273:A:GLY:N	1:1273:A:GLY:CA	1:1273:A:GLY:C	2	1.18
(1,137)	1:1381:A:CYS:N	1:1381:A:CYS:CA	1:1381:A:CYS:C	1:1382:A:HIS:N	10	1.17
(1,112)	1:1359:A:ASP:C	1:1360:A:GLY:N	1:1360:A:GLY:CA	1:1360:A:GLY:C	6	1.16
(1,69)	1:1318:A:VAL:C	1:1319:A:SER:N	1:1319:A:SER:CA	1:1319:A:SER:C	9	1.14

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,14)	1:1275:A:ALA:C	1:1276:A:CYS:N	1:1276:A:CYS:CA	1:1276:A:CYS:C	1	1.14
(1,152)	1:1398:A:THR:N	1:1398:A:THR:CA	1:1398:A:THR:C	1:1399:A:PHE:N	1	1.1
(1,69)	1:1318:A:VAL:C	1:1319:A:SER:N	1:1319:A:SER:CA	1:1319:A:SER:C	8	1.09
(1,150)	1:1397:A:VAL:N	1:1397:A:VAL:CA	1:1397:A:VAL:C	1:1398:A:THR:N	4	1.07
(1,87)	1:1331:A:LYS:C	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	7	1.07
(1,77)	1:1323:A:ILE:C	1:1324:A:THR:N	1:1324:A:THR:CA	1:1324:A:THR:C	7	1.07
(1,88)	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	1:1333:A:PHE:N	2	1.06
(1,7)	1:1268:A:ASP:C	1:1269:A:LEU:N	1:1269:A:LEU:CA	1:1269:A:LEU:C	1	1.06
(1,96)	1:1345:A:PHE:N	1:1345:A:PHE:CA	1:1345:A:PHE:C	1:1346:A:SER:N	7	1.05
(1,6)	1:1268:A:ASP:N	1:1268:A:ASP:CA	1:1268:A:ASP:C	1:1269:A:LEU:N	3	1.05
(1,96)	1:1345:A:PHE:N	1:1345:A:PHE:CA	1:1345:A:PHE:C	1:1346:A:SER:N	3	1.03
(1,87)	1:1331:A:LYS:C	1:1332:A:LEU:N	1:1332:A:LEU:CA	1:1332:A:LEU:C	9	1.03
(1,26)	1:1288:A:SER:N	1:1288:A:SER:CA	1:1288:A:SER:C	1:1289:A:LEU:N	6	1.03
(1,152)	1:1398:A:THR:N	1:1398:A:THR:CA	1:1398:A:THR:C	1:1399:A:PHE:N	5	1.01
(1,152)	1:1398:A:THR:N	1:1398:A:THR:CA	1:1398:A:THR:C	1:1399:A:PHE:N	7	1.01
(1,135)	1:1380:A:VAL:N	1:1380:A:VAL:CA	1:1380:A:VAL:C	1:1381:A:CYS:N	5	1.01
(1,111)	1:1359:A:ASP:N	1:1359:A:ASP:CA	1:1359:A:ASP:C	1:1360:A:GLY:N	2	1.01