



Full wwPDB NMR Structure Validation Report ⓘ

Nov 23, 2017 – 12:52 AM EST

PDB ID : 1BUQ
Title : SOLUTION STRUCTURE OF DELTA-5-3-KETOSTEROID ISOMERASE
COMPLEXED WITH THE STEROID 19-NORTESTOSTERONE-HEMISU
CCINATE
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Deposited on : unknown

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

<http://wwpdb.org/validation/2016/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

Cyrange : Kirchner and Güntert (2011)
NmrClust : Kelley et al. (1996)
MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
ShiftChecker : rb-20030345
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20030345

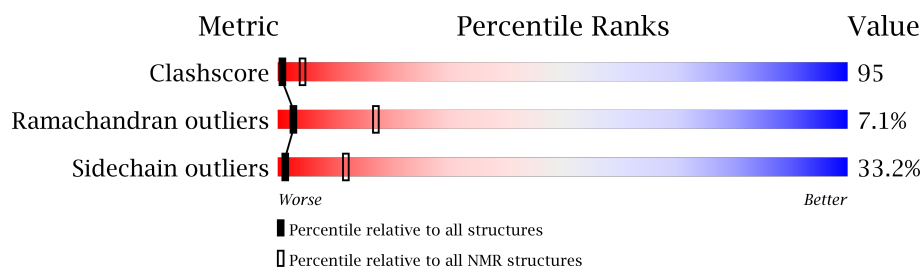
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment was not calculated.

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	125131	11601
Ramachandran outliers	121729	10391
Sidechain outliers	121581	10367

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	125	 9% 64% 24% . .
1	B	125	 11% 62% 23% . .

2 Ensemble composition and analysis

This entry contains 15 models. Model 5 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative.

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:3-A:125, B:201-B:323 (246)	0.83	5

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 and 1 single-model cluster was found.

Cluster number	Models
1	1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 14
2	3, 8, 13
Single-model clusters	15

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 3858 atoms, of which 1918 are hydrogens and 0 are deuteriums.

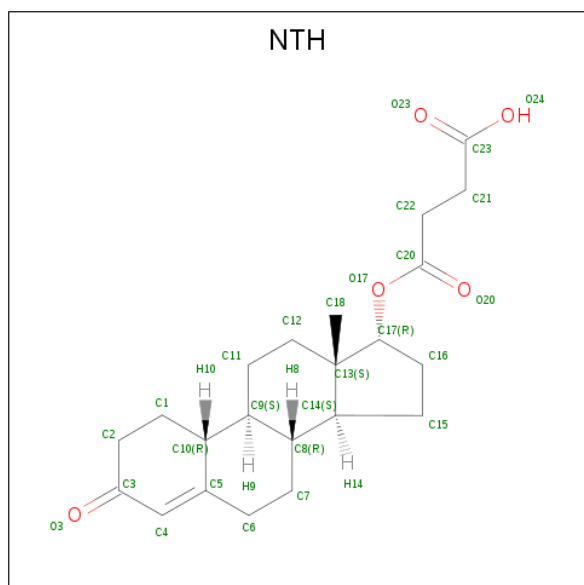
- Molecule 1 is a protein called PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMISUCCINATE).

Mol	Chain	Residues	Atoms						Trace
1	A	125	Total	C	H	N	O	S	0
			1873	597	930	165	178	3	
1	B	125	Total	C	H	N	O	S	0
			1873	597	930	165	178	3	

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	55	PHE	TYR	ENGINEERED	UNP P00947
A	88	PHE	TYR	ENGINEERED	UNP P00947
B	255	PHE	TYR	ENGINEERED	UNP P00947
B	288	PHE	TYR	ENGINEERED	UNP P00947

- Molecule 2 is SUCCINIC ACID MONO-(13-METHYL-3-OXO-2,3,6,7,8,9,10,11,12,13,14,15,16,17-TETRADECAHYDRO-1H-CYCLOPENTA[A]PHENANTHREN-17-YL) ESTER (three-letter code: NTH) (formula: $C_{22}H_{30}O_5$).



Mol	Chain	Residues	Atoms			
2	A	1	Total	C	H	O
			56	22	29	5

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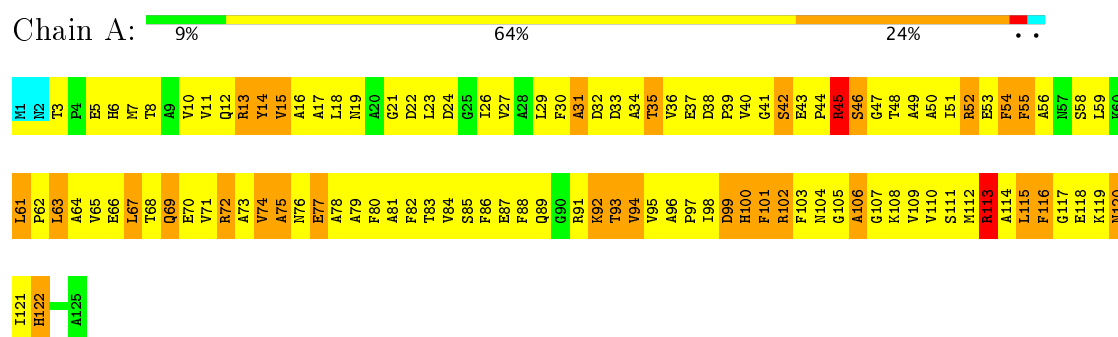
Mol	Chain	Residues	Atoms			
			Total	C	H	O
2	B	1	56	22	29	5

4 Residue-property plots

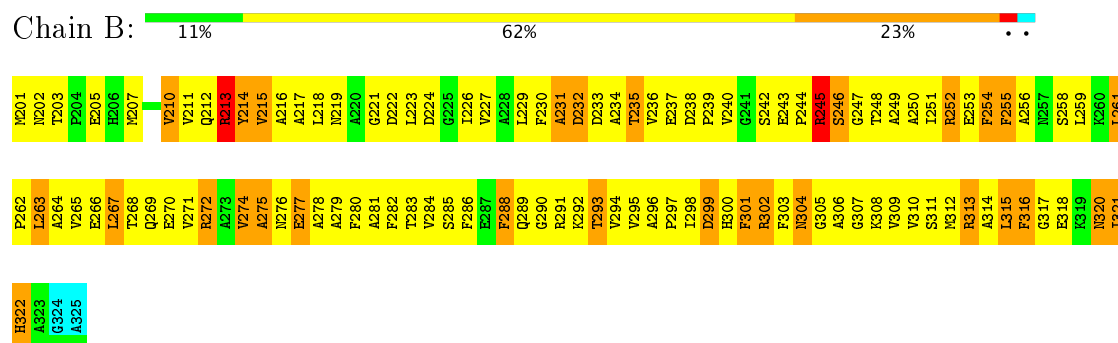
4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA and DNA 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: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)



- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

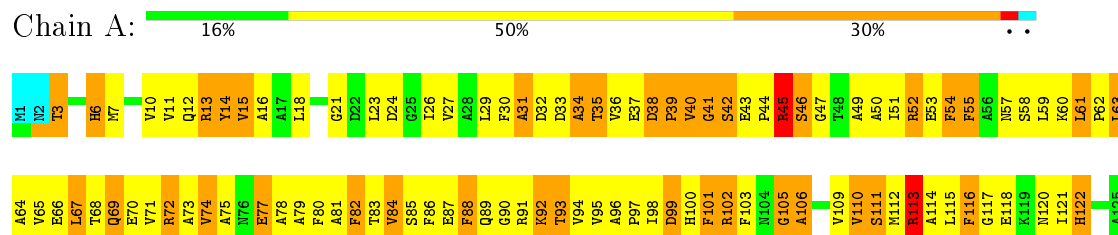


4.2 Scores per residue for each member of the ensemble

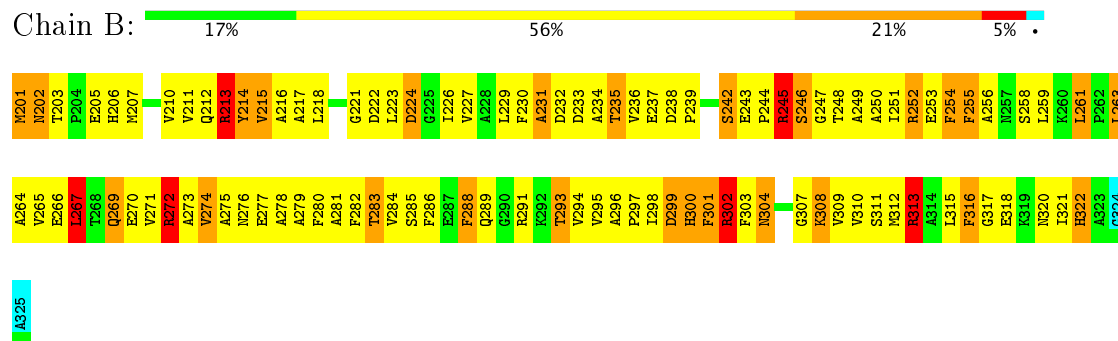
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)



- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)



4.2.2 Score per residue for model 2

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)



- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

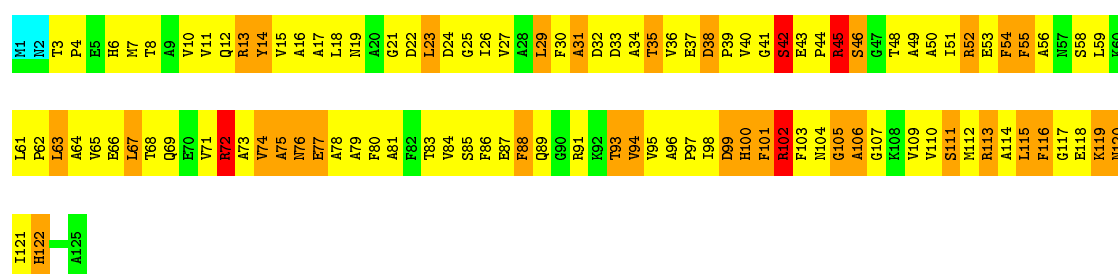




4.2.3 Score per residue for model 3

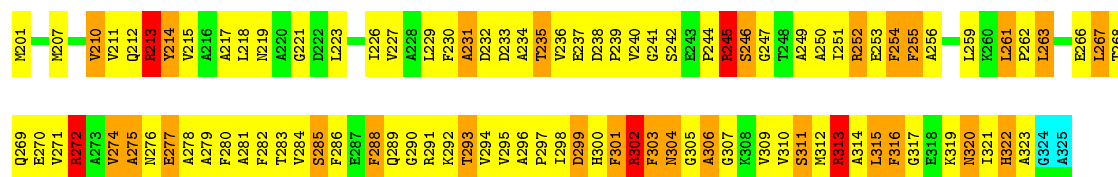
- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

Chain A: 12% 58% 26%



- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

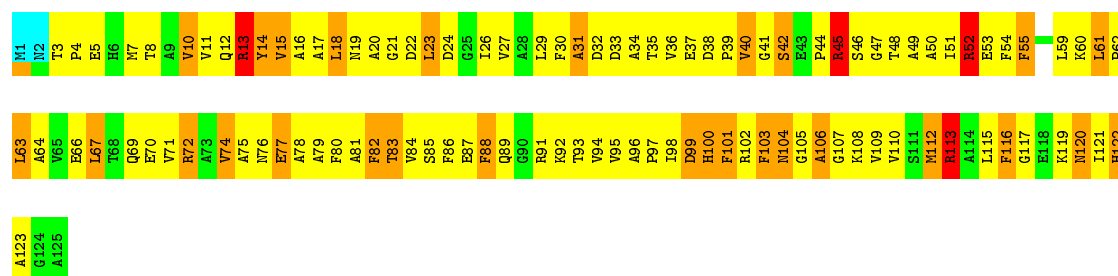
Chain B: 19% 54% 22%



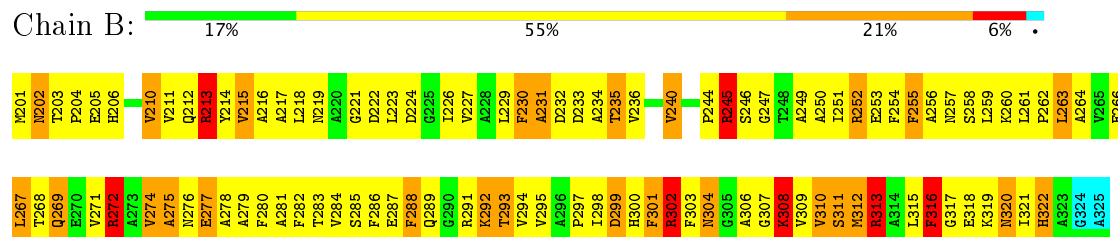
4.2.4 Score per residue for model 4

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

Chain A: 14% 59% 22%

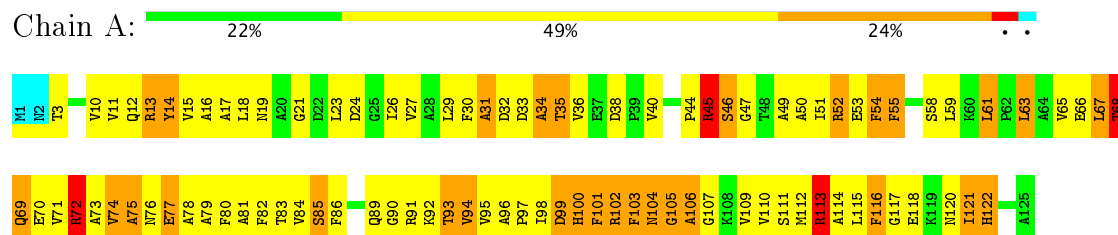


- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

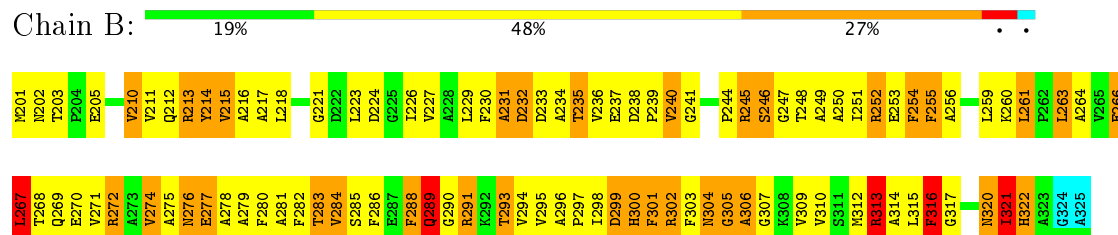


4.2.5 Score per residue for model 5 (medoid)

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

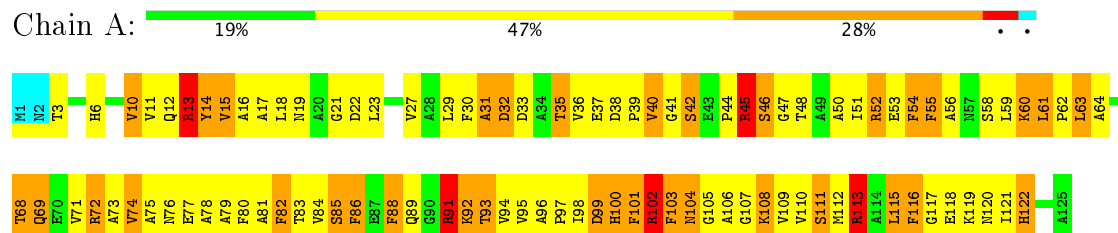


- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

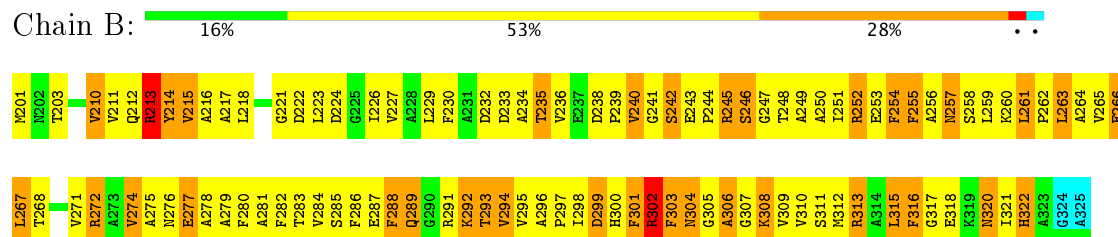


4.2.6 Score per residue for model 6

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

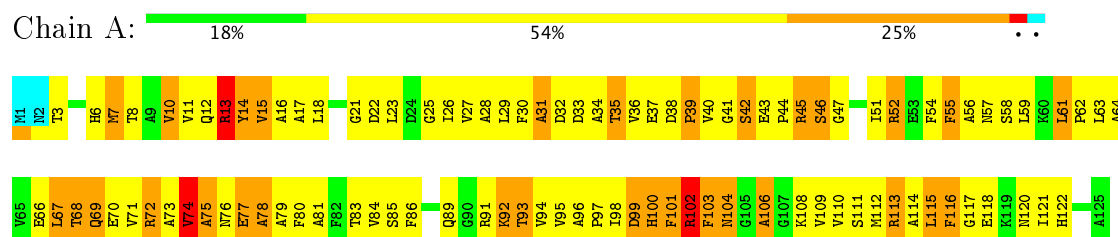


- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

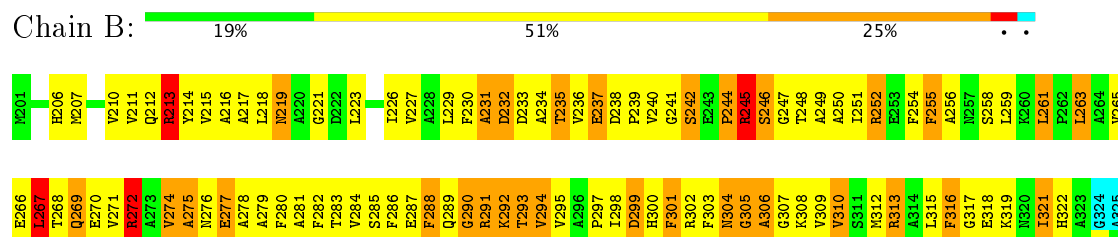


4.2.7 Score per residue for model 7

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

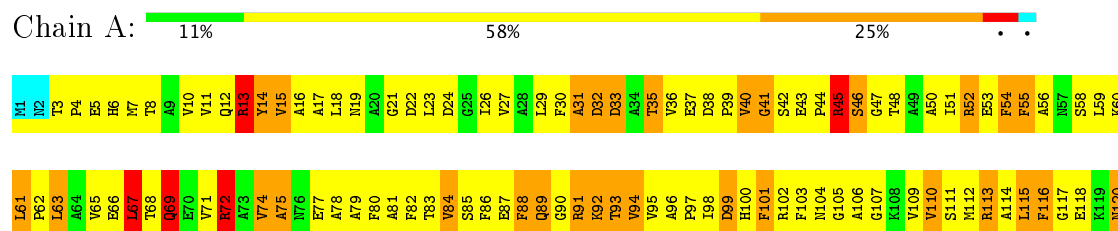


- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)



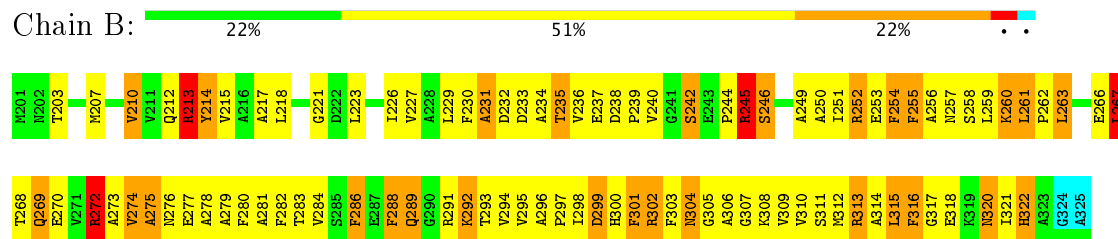
4.2.8 Score per residue for model 8

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)



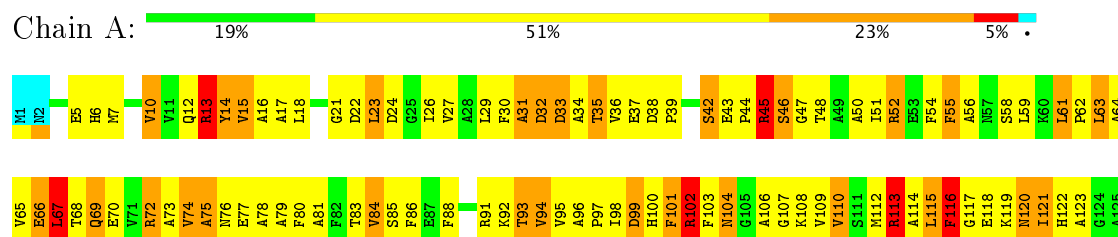


- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

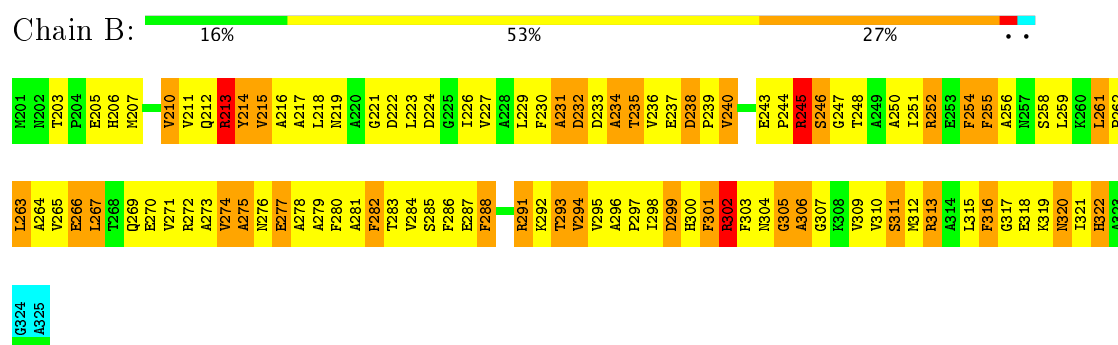


4.2.9 Score per residue for model 9

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

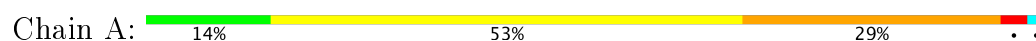


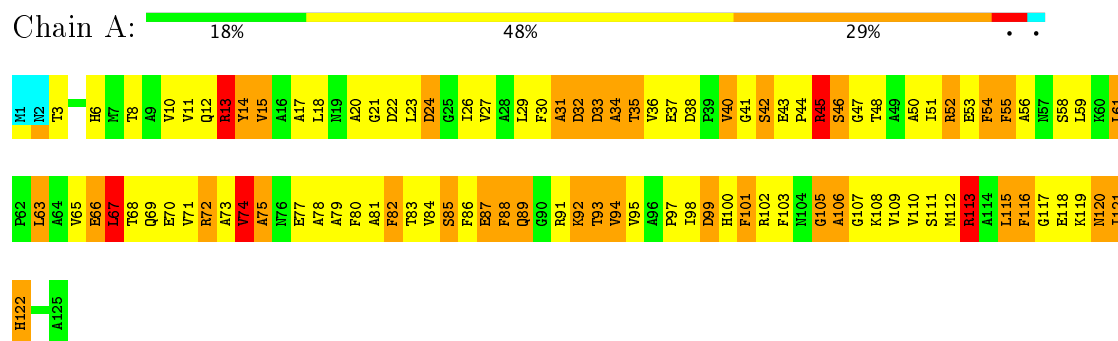
- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)



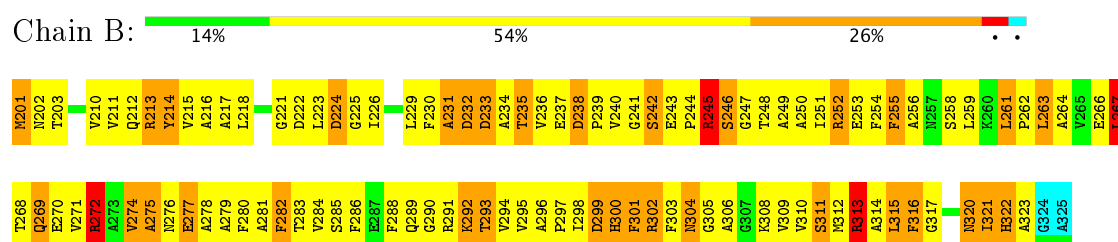
4.2.10 Score per residue for model 10

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)



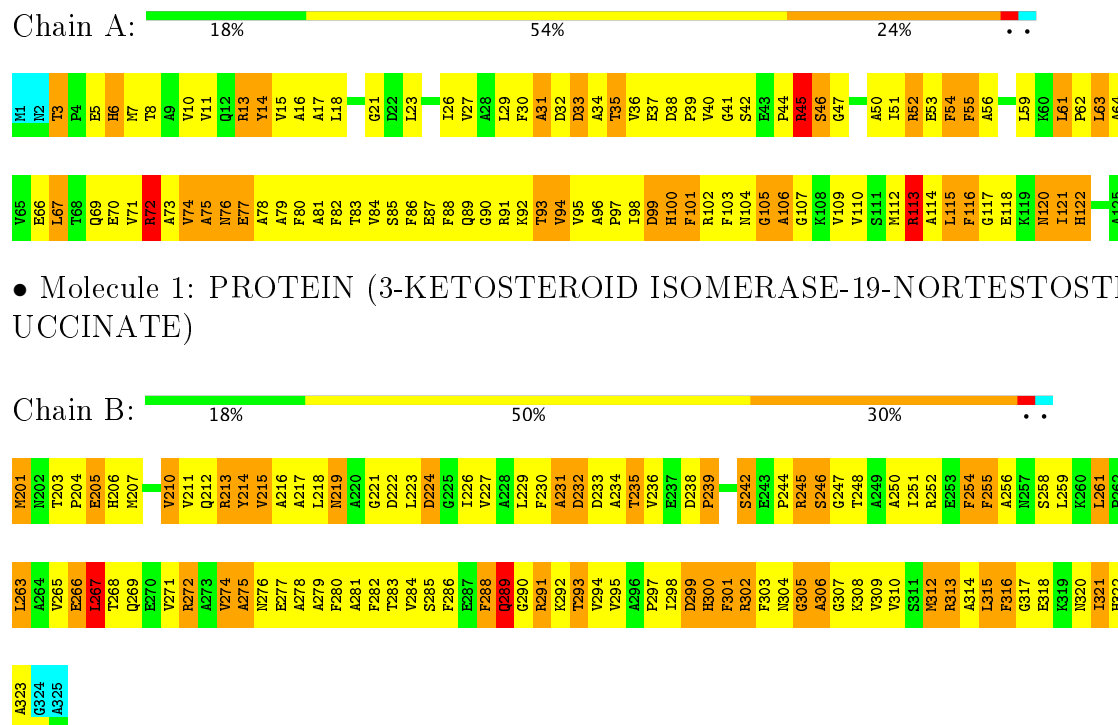


- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

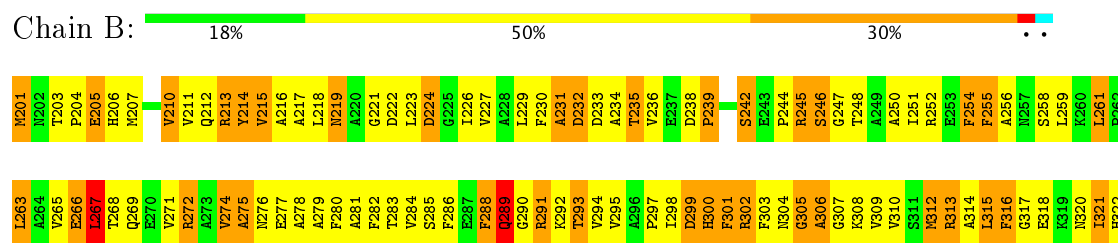


4.2.13 Score per residue for model 13

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

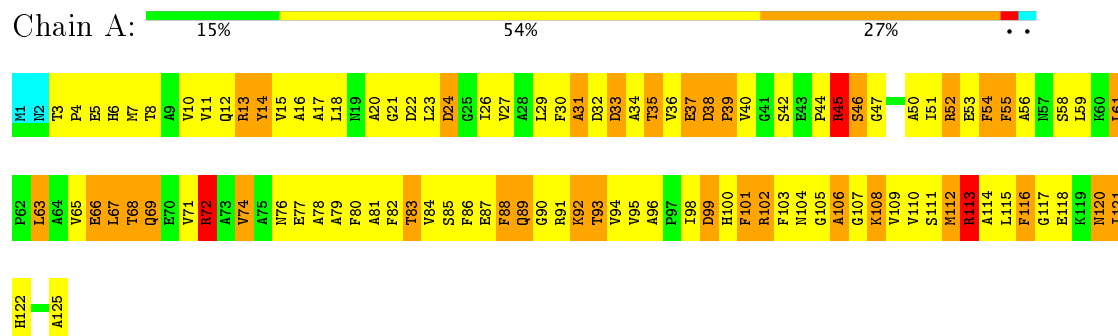


- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMIS UCCINATE)

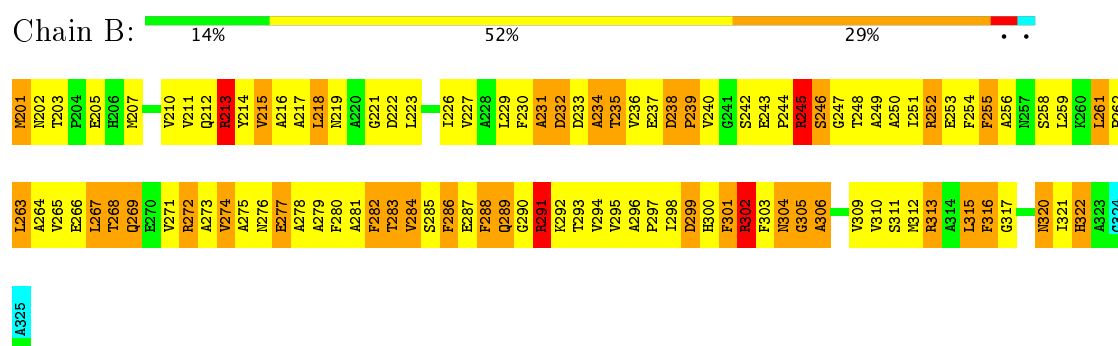


4.2.14 Score per residue for model 14

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMISUCCINATE)

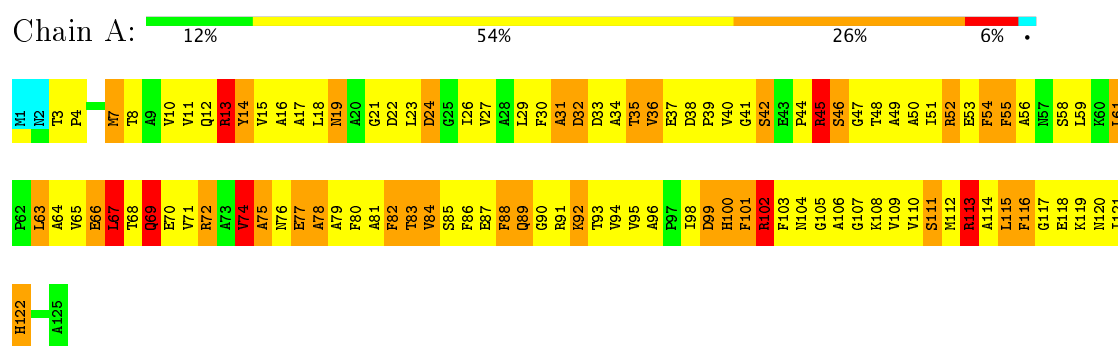


- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMISUCCINATE)



4.2.15 Score per residue for model 15

- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMISUCCINATE)



- Molecule 1: PROTEIN (3-KETOSTEROID ISOMERASE-19-NORTESTOSTERONE-HEMISUCCINATE)



5 Refinement protocol and experimental data overview

The models were refined using the following method: *DISTANCE GEOMETRY, SIMULATED ANNEALING AND REFINEMENT CALCULATIONS*.

Of the 120 calculated structures, 15 were deposited, based on the following criterion: *NOE VIOLATION = < 0.35Å AND DIHEDRAL VIOLATION < 5 DEG..*

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

Software name	Classification	Version
X-PLOR	refinement	3.8
X-PLOR	structure solution	3.8

No chemical shift data was provided. No validations of the models with respect to experimental NMR restraints is performed at this time.

6 Model quality

6.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: NTH

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	1.06±0.00	1±0/945 (0.1±0.0%)	0.86±0.00	0±0/1281 (0.0±0.0%)
1	B	1.06±0.00	1±0/952 (0.1±0.0%)	0.86±0.00	0±0/1293 (0.0±0.0%)
All	All	1.06	30/28455 (0.1%)	0.86	0/38610 (0.0%)

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

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	6.8±0.5
1	B	0.0±0.0	6.7±0.4
All	All	0	203

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	99	ASP	CG-OD2	5.81	1.38	1.25	7	15
1	B	299	ASP	CG-OD2	5.79	1.38	1.25	10	15

There are no bond-angle outliers.

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	91	ARG	Sidechain	15
1	B	302	ARG	Sidechain	15

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Mol	Chain	Res	Type	Group	Models (Total)
1	A	113	ARG	Sidechain	15
1	A	102	ARG	Sidechain	15
1	B	291	ARG	Sidechain	15
1	B	245	ARG	Sidechain	15
1	A	52	ARG	Sidechain	15
1	B	213	ARG	Sidechain	15
1	B	272	ARG	Sidechain	14
1	A	72	ARG	Sidechain	14
1	A	13	ARG	Sidechain	14
1	A	45	ARG	Sidechain	14
1	B	252	ARG	Sidechain	14
1	B	313	ARG	Sidechain	13

6.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	927	913	912	190±13
1	B	933	922	918	187±12
2	A	27	29	28	6±3
2	B	27	29	28	6±3
All	All	28710	28395	28290	5388

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 95.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:261:LEU:HD23	1:B:263:LEU:HD21	1.12	1.15	13	1
1:B:295:VAL:HG22	1:B:321:ILE:HG23	1.11	1.18	3	10
1:B:261:LEU:HD21	1:B:263:LEU:HD21	1.03	1.21	8	1
1:A:63:LEU:HD13	1:A:84:VAL:HG13	1.03	1.23	14	1
1:A:74:VAL:HG11	1:B:240:VAL:HG21	1.03	1.28	5	3
1:A:79:ALA:HB2	1:B:315:LEU:HD11	1.02	1.26	9	5
1:B:281:ALA:HB2	1:B:298:ILE:HG23	1.02	1.26	14	11
1:A:95:VAL:HG22	1:A:121:ILE:HG23	1.01	1.31	9	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:75:ALA:HB3	1:B:240:VAL:HG12	1.00	1.29	10	2
1:B:261:LEU:HD22	2:B:326:NTH:H121	0.99	1.26	8	1
1:A:45:ARG:CG	1:A:50:ALA:HB1	0.99	1.88	2	6
1:A:81:ALA:HB2	1:A:98:ILE:HG23	0.98	1.33	7	14
1:B:211:VAL:HG11	1:B:271:VAL:HG21	0.98	1.29	15	13
1:A:23:LEU:CD2	1:A:59:LEU:HD22	0.98	1.88	10	7
1:A:61:LEU:HD22	1:A:63:LEU:HD21	0.98	1.31	10	9
1:A:14:TYR:CE1	1:A:18:LEU:HD11	0.98	1.94	7	15
1:A:21:GLY:CA	1:A:59:LEU:HD21	0.97	1.89	10	15
1:A:115:LEU:HD22	1:B:279:ALA:HB3	0.97	1.36	2	6
1:A:74:VAL:HG11	1:B:316:PHE:O	0.97	1.60	15	10
1:A:61:LEU:CD2	1:A:63:LEU:HD21	0.96	1.90	6	4
1:B:223:LEU:CD2	1:B:259:LEU:HD22	0.96	1.89	15	6
1:B:221:GLY:CA	1:B:259:LEU:HD21	0.96	1.91	15	13
1:A:61:LEU:HD21	1:A:63:LEU:CD2	0.96	1.90	6	1
1:B:281:ALA:CB	1:B:298:ILE:HD12	0.95	1.90	11	1
1:B:223:LEU:HD12	1:B:226:ILE:HD12	0.95	1.37	13	9
1:A:23:LEU:HD11	1:A:55:PHE:HB3	0.94	1.39	14	8
1:B:281:ALA:HB1	1:B:298:ILE:HD12	0.94	1.38	11	1
1:A:63:LEU:HD22	1:A:84:VAL:CG1	0.94	1.92	3	5
1:B:309:VAL:HG11	1:B:312:MET:CE	0.94	1.92	9	2
1:A:61:LEU:HD21	1:A:63:LEU:HD21	0.93	0.96	6	2
1:B:211:VAL:HG21	1:B:271:VAL:HG11	0.93	1.40	15	8
1:A:23:LEU:HD12	1:A:26:ILE:HD12	0.93	1.36	14	6
1:B:210:VAL:HA	1:B:229:LEU:HD21	0.93	1.41	12	15
1:B:215:VAL:HG11	1:B:267:LEU:HD11	0.93	1.38	8	2
1:A:40:VAL:HG21	1:B:274:VAL:HG11	0.92	1.39	5	3
1:B:297:PRO:O	1:B:298:ILE:HD13	0.92	1.64	11	1
1:B:261:LEU:HD22	1:B:263:LEU:HD21	0.92	1.40	5	9
1:A:11:VAL:HG11	1:A:71:VAL:HG21	0.92	1.40	15	13
1:A:75:ALA:CB	1:B:240:VAL:HG12	0.92	1.94	10	1
1:B:230:PHE:CD2	1:B:251:ILE:HG21	0.92	2.00	9	7
1:B:223:LEU:HD11	1:B:255:PHE:HB3	0.91	1.41	11	9
1:A:78:ALA:HB3	1:A:101:PHE:HB3	0.91	1.42	4	14
1:A:83:THR:HG22	1:A:95:VAL:O	0.91	1.64	14	4
1:B:295:VAL:HG12	1:B:297:PRO:HD3	0.91	1.43	13	15
1:B:226:ILE:HG21	1:B:255:PHE:CG	0.91	2.00	7	1
1:B:263:LEU:HD22	1:B:284:VAL:HG11	0.91	1.43	8	10
1:A:64:ALA:HB3	1:A:85:SER:OG	0.91	1.64	4	10
1:B:278:ALA:HB3	1:B:301:PHE:HB3	0.90	1.44	3	9
1:B:211:VAL:HG22	1:B:301:PHE:CE2	0.90	2.02	12	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:61:LEU:HD13	2:A:126:NTH:H183	0.90	1.40	8	2
1:A:116:PHE:O	1:B:274:VAL:HG11	0.89	1.67	7	10
1:B:245:ARG:HG3	1:B:250:ALA:HB1	0.89	1.44	9	5
1:B:261:LEU:HD22	1:B:263:LEU:CD2	0.89	1.98	10	9
1:A:10:VAL:HA	1:A:29:LEU:HD21	0.89	1.44	14	14
1:A:72:ARG:CG	1:A:79:ALA:HB3	0.89	1.97	9	1
1:B:283:THR:HG22	1:B:295:VAL:O	0.88	1.68	11	4
1:A:34:ALA:HB3	1:A:51:ILE:CD1	0.88	1.99	7	2
1:B:271:VAL:HG13	1:B:280:PHE:HB3	0.88	1.44	4	14
1:A:23:LEU:HD13	1:A:26:ILE:HD12	0.88	1.44	1	6
1:A:45:ARG:HG3	1:A:50:ALA:HB1	0.88	1.45	2	7
1:B:264:ALA:HB3	1:B:285:SER:OG	0.88	1.68	1	9
1:B:223:LEU:HD13	1:B:226:ILE:HD12	0.88	1.46	2	6
1:B:263:LEU:HD13	1:B:284:VAL:HG13	0.88	1.45	1	1
1:A:95:VAL:HG12	1:A:97:PRO:HD3	0.87	1.45	6	13
1:A:71:VAL:HG13	1:A:80:PHE:HB3	0.87	1.45	3	10
1:B:263:LEU:HD23	1:B:286:PHE:CD1	0.87	2.04	14	5
1:A:34:ALA:N	1:A:51:ILE:HD11	0.87	1.83	5	3
1:A:34:ALA:O	1:A:51:ILE:HD11	0.87	1.70	7	5
1:B:221:GLY:HA2	1:B:259:LEU:HD21	0.86	1.46	9	10
1:A:26:ILE:HG22	1:A:30:PHE:CE2	0.86	2.05	1	1
1:A:20:ALA:HB3	1:A:22:ASP:OD2	0.86	1.68	4	1
1:A:115:LEU:HD22	1:B:279:ALA:CB	0.86	2.00	10	2
1:B:226:ILE:HD13	1:B:255:PHE:CD1	0.86	2.05	7	3
1:B:235:THR:HG23	1:B:246:SER:HB2	0.85	1.46	11	7
1:B:261:LEU:CD2	1:B:263:LEU:HD21	0.85	2.00	13	7
1:B:297:PRO:C	1:B:298:ILE:HD13	0.85	1.92	11	1
1:B:295:VAL:HG22	1:B:321:ILE:CG2	0.85	2.02	3	9
1:A:11:VAL:HG22	1:A:101:PHE:CE2	0.85	2.07	6	10
1:A:27:VAL:HG11	1:A:48:THR:HG23	0.84	1.48	10	1
1:A:63:LEU:HD13	1:A:84:VAL:CG1	0.84	2.02	14	3
1:B:215:VAL:CG1	1:B:267:LEU:HD11	0.84	2.02	8	1
1:A:78:ALA:HB3	1:A:101:PHE:CB	0.84	2.02	13	14
1:B:304:ASN:OD1	1:B:310:VAL:HG23	0.84	1.72	6	2
1:A:23:LEU:O	1:A:27:VAL:HG23	0.83	1.72	8	2
1:A:40:VAL:HG13	1:A:116:PHE:CE1	0.83	2.07	3	3
1:A:79:ALA:CB	1:B:315:LEU:HD11	0.83	2.03	9	5
1:A:104:ASN:OD1	1:A:110:VAL:HG23	0.83	1.72	6	3
1:A:63:LEU:HB2	1:A:84:VAL:HG12	0.83	1.47	9	2
1:A:61:LEU:HD22	1:A:63:LEU:CD2	0.83	2.04	8	8
1:A:7:MET:HB3	1:A:73:ALA:HB1	0.83	1.49	13	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:35:THR:HG23	1:A:46:SER:HB2	0.83	1.47	5	5
1:B:286:PHE:CZ	2:B:326:NTH:H221	0.83	2.09	6	6
1:B:263:LEU:HD23	1:B:286:PHE:CG	0.83	2.09	14	2
1:A:61:LEU:CD1	2:A:126:NTH:H183	0.83	2.04	8	2
1:B:213:ARG:HB3	1:B:229:LEU:HD22	0.83	1.48	7	8
1:A:34:ALA:C	1:A:51:ILE:HD11	0.82	1.95	7	2
1:B:263:LEU:HD22	1:B:284:VAL:CG1	0.82	2.04	8	7
1:B:278:ALA:HB3	1:B:301:PHE:CB	0.82	2.04	12	9
1:A:13:ARG:HB3	1:A:29:LEU:HD22	0.82	1.48	9	6
1:A:79:ALA:HB2	1:B:315:LEU:HD13	0.82	1.50	13	9
1:B:215:VAL:HA	1:B:218:LEU:HD12	0.82	1.52	7	15
1:B:263:LEU:HD22	1:B:284:VAL:HG12	0.81	1.52	13	2
1:A:95:VAL:HG21	2:A:126:NTH:O20	0.81	1.74	8	1
1:A:79:ALA:HB3	1:B:315:LEU:HD22	0.81	1.49	4	6
1:B:261:LEU:HD21	1:B:263:LEU:CD2	0.81	2.05	8	1
1:A:13:ARG:NH2	1:A:29:LEU:HD11	0.81	1.91	4	2
1:B:309:VAL:HG11	1:B:312:MET:HE1	0.81	1.51	13	2
1:B:245:ARG:CG	1:B:250:ALA:HB1	0.80	2.06	8	8
1:B:234:ALA:O	1:B:251:ILE:HD11	0.80	1.76	10	10
1:B:213:ARG:HD2	1:B:229:LEU:HD13	0.80	1.50	7	4
1:A:23:LEU:HD23	1:A:52:ARG:CG	0.80	2.05	11	7
1:B:286:PHE:CE2	2:B:326:NTH:H221	0.80	2.11	6	3
1:A:18:LEU:HB3	1:A:65:VAL:HG21	0.80	1.52	12	4
1:B:301:PHE:CE1	1:B:309:VAL:HG21	0.80	2.11	6	3
1:A:15:VAL:HA	1:A:18:LEU:HD12	0.79	1.54	5	15
1:A:86:PHE:CE1	2:A:126:NTH:H212	0.79	2.12	14	1
1:A:46:SER:O	1:A:50:ALA:HB3	0.79	1.75	14	7
1:A:104:ASN:HB3	1:A:110:VAL:HG21	0.79	1.54	15	9
1:A:21:GLY:HA2	1:A:59:LEU:HD21	0.79	1.52	11	13
1:A:79:ALA:HB2	1:B:315:LEU:CD1	0.79	2.07	12	7
1:A:93:THR:HG22	1:A:122:HIS:O	0.79	1.77	1	8
1:B:235:THR:HG23	1:B:246:SER:HB3	0.78	1.55	1	4
1:B:261:LEU:HD13	2:B:326:NTH:O17	0.78	1.78	5	4
1:A:63:LEU:HD22	1:A:84:VAL:HG11	0.78	1.54	6	8
1:A:79:ALA:CB	1:B:315:LEU:HD22	0.78	2.08	4	2
1:A:45:ARG:HB3	1:A:50:ALA:HB1	0.78	1.53	15	2
1:B:213:ARG:HD3	1:B:229:LEU:HD13	0.78	1.55	6	2
1:B:263:LEU:HB2	1:B:284:VAL:HG12	0.78	1.56	14	1
1:B:286:PHE:CZ	2:B:326:NTH:H212	0.78	2.13	8	1
1:A:86:PHE:CE2	2:A:126:NTH:H221	0.78	2.14	6	3
1:A:72:ARG:HG2	1:A:79:ALA:HB3	0.78	1.53	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:VAL:HG11	1:A:103:PHE:CE1	0.77	2.13	13	3
1:A:61:LEU:HD13	2:A:126:NTH:O17	0.77	1.79	10	3
1:A:40:VAL:HG21	1:B:274:VAL:CG1	0.77	2.10	5	4
1:B:286:PHE:CE1	2:B:326:NTH:H221	0.77	2.13	10	5
1:B:215:VAL:HG11	1:B:267:LEU:CD1	0.77	2.10	8	1
1:B:246:SER:O	1:B:250:ALA:HB3	0.77	1.79	2	10
1:A:95:VAL:CG2	1:A:121:ILE:HG23	0.77	2.10	12	6
1:A:11:VAL:HG11	1:A:71:VAL:CG2	0.77	2.10	12	14
1:B:281:ALA:CB	1:B:298:ILE:HG23	0.76	2.09	14	4
1:A:23:LEU:HD23	1:A:52:ARG:HG3	0.76	1.56	9	7
1:B:263:LEU:CB	1:B:284:VAL:HG13	0.76	2.09	9	10
1:A:27:VAL:CG1	1:A:48:THR:HG23	0.76	2.10	10	3
1:B:267:LEU:HD23	1:B:281:ALA:O	0.76	1.80	10	2
1:B:239:PRO:O	1:B:240:VAL:HG13	0.76	1.81	9	1
1:A:40:VAL:HG11	1:B:274:VAL:HG11	0.76	1.55	2	1
1:A:26:ILE:HG21	1:A:55:PHE:CD1	0.75	2.16	2	3
1:B:261:LEU:HD12	1:B:263:LEU:CG	0.75	2.12	14	1
1:B:223:LEU:HD23	1:B:252:ARG:CG	0.75	2.10	10	9
1:B:231:ALA:HB2	1:B:309:VAL:O	0.75	1.80	14	9
1:B:281:ALA:HB2	1:B:298:ILE:CG2	0.75	2.11	14	7
1:A:79:ALA:HB3	1:B:315:LEU:HD21	0.75	1.55	8	1
1:B:211:VAL:HG11	1:B:271:VAL:CG2	0.75	2.11	12	14
1:A:74:VAL:CG1	1:B:240:VAL:HG21	0.75	2.10	5	3
1:B:234:ALA:N	1:B:251:ILE:HD11	0.75	1.96	1	6
1:B:245:ARG:HB3	1:B:250:ALA:HB1	0.75	1.56	13	4
1:A:81:ALA:CB	1:A:98:ILE:HG23	0.75	2.11	7	6
1:B:227:VAL:HG11	1:B:248:THR:HG23	0.75	1.57	2	5
1:A:30:PHE:CZ	1:A:112:MET:HE3	0.74	2.17	6	3
1:A:63:LEU:HD23	1:A:86:PHE:CD1	0.74	2.17	10	5
1:A:10:VAL:HG11	1:A:103:PHE:CZ	0.74	2.17	13	8
1:A:11:VAL:HG22	1:A:101:PHE:CD2	0.74	2.17	6	6
1:A:61:LEU:HB3	1:A:63:LEU:HD11	0.74	1.57	9	2
1:B:210:VAL:HG11	1:B:303:PHE:CE1	0.74	2.17	1	4
1:A:63:LEU:HB3	1:A:84:VAL:HG13	0.74	1.57	7	1
1:B:261:LEU:HD23	1:B:263:LEU:CD2	0.74	2.06	13	3
1:B:309:VAL:HG11	1:B:312:MET:HE2	0.74	1.58	9	1
1:B:223:LEU:HD22	1:B:259:LEU:HD22	0.74	1.58	7	5
1:A:63:LEU:CB	1:A:84:VAL:HG13	0.74	2.13	4	6
1:B:263:LEU:HB2	1:B:284:VAL:HG13	0.74	1.60	8	8
1:A:115:LEU:HD13	1:B:279:ALA:HB2	0.73	1.59	11	11
1:B:210:VAL:CG2	1:B:309:VAL:HG22	0.73	2.13	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:11:VAL:HG21	1:A:71:VAL:CG1	0.73	2.13	13	6
1:A:45:ARG:HG2	1:A:50:ALA:HB1	0.73	1.59	2	1
1:A:38:ASP:OD1	1:A:114:ALA:HB3	0.73	1.83	9	3
1:B:269:GLN:OE1	1:B:281:ALA:HB3	0.73	1.82	11	1
1:A:115:LEU:HD11	1:B:279:ALA:HB2	0.73	1.59	4	1
1:B:261:LEU:CD2	2:B:326:NTH:H121	0.72	2.13	8	1
1:A:11:VAL:HG21	1:A:71:VAL:HG11	0.72	1.61	3	6
1:A:13:ARG:HD2	1:A:29:LEU:HD13	0.72	1.61	4	3
1:B:234:ALA:HB3	1:B:251:ILE:HD13	0.72	1.61	9	1
1:B:223:LEU:HD23	1:B:252:ARG:HG3	0.72	1.61	13	9
1:A:116:PHE:O	1:B:274:VAL:HG21	0.72	1.85	8	8
1:B:263:LEU:HD13	1:B:284:VAL:CG1	0.71	2.14	1	3
1:A:34:ALA:HB3	1:A:51:ILE:HD13	0.71	1.62	7	2
1:A:10:VAL:HG12	1:A:101:PHE:CZ	0.71	2.20	13	10
1:A:31:ALA:HB2	1:A:109:VAL:O	0.71	1.85	10	10
1:A:61:LEU:HD13	2:A:126:NTH:C17	0.71	2.15	12	2
1:A:36:VAL:CG2	1:A:51:ILE:HD12	0.71	2.15	12	5
1:A:61:LEU:HD13	1:A:62:PRO:HD2	0.71	1.61	9	1
1:B:278:ALA:HB3	1:B:301:PHE:HB2	0.71	1.60	4	2
1:A:63:LEU:CB	1:A:84:VAL:HG12	0.71	2.16	9	6
1:A:74:VAL:HG21	1:B:316:PHE:O	0.71	1.86	11	9
1:A:95:VAL:HG13	1:A:120:ASN:ND2	0.71	2.01	11	2
1:A:27:VAL:HG21	1:A:52:ARG:HB2	0.70	1.63	2	6
1:B:293:THR:HG22	1:B:322:HIS:O	0.70	1.86	2	4
1:A:21:GLY:HA3	1:A:59:LEU:HD21	0.70	1.61	10	2
1:B:322:HIS:CD2	2:B:326:NTH:H212	0.70	2.21	13	1
1:A:58:SER:OG	2:A:126:NTH:H11	0.70	1.86	9	7
1:A:116:PHE:CZ	2:A:126:NTH:H62	0.70	2.22	2	2
1:A:30:PHE:CD2	1:A:51:ILE:HG21	0.70	2.20	8	4
1:B:210:VAL:HG11	1:B:303:PHE:CZ	0.70	2.21	4	11
1:A:94:VAL:HG12	1:A:122:HIS:CG	0.70	2.22	12	5
1:B:230:PHE:CG	1:B:251:ILE:HG21	0.70	2.22	4	2
1:B:293:THR:HG23	1:B:323:ALA:HA	0.70	1.61	15	1
1:A:26:ILE:HD13	1:A:55:PHE:CD1	0.70	2.22	2	4
1:A:79:ALA:HB3	1:B:315:LEU:CD2	0.70	2.16	4	3
1:A:80:PHE:CE1	1:A:101:PHE:CD2	0.70	2.80	7	5
1:B:210:VAL:HG21	1:B:309:VAL:HG22	0.70	1.64	14	1
1:B:258:SER:OG	2:B:326:NTH:H11	0.69	1.86	7	9
1:B:316:PHE:CE2	2:B:326:NTH:H72	0.69	2.22	14	1
1:A:10:VAL:HG21	1:A:103:PHE:CE2	0.69	2.22	12	4
1:B:238:ASP:OD2	2:B:326:NTH:H61	0.69	1.87	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:75:ALA:HB2	1:B:240:VAL:O	0.69	1.88	6	1
1:A:40:VAL:HG21	1:B:274:VAL:HB	0.69	1.64	8	2
1:A:115:LEU:HD22	1:B:279:ALA:HB2	0.69	1.62	10	1
1:A:61:LEU:CD1	2:A:126:NTH:H122	0.69	2.17	2	1
1:B:211:VAL:HG21	1:B:271:VAL:CG1	0.69	2.18	15	6
1:A:68:THR:O	1:A:70:GLU:N	0.69	2.26	9	2
1:B:295:VAL:HG21	2:B:326:NTH:O20	0.69	1.88	8	2
1:A:115:LEU:HD11	1:B:300:HIS:CD2	0.69	2.23	4	1
1:A:80:PHE:CE1	1:A:101:PHE:CE2	0.69	2.82	14	5
1:A:36:VAL:HG23	1:A:51:ILE:HD12	0.68	1.64	12	6
1:A:94:VAL:HG13	1:A:122:HIS:CB	0.68	2.18	15	4
1:B:226:ILE:HD13	1:B:255:PHE:CE1	0.68	2.23	7	1
1:A:10:VAL:HG21	1:A:103:PHE:CZ	0.68	2.23	2	6
1:B:295:VAL:HG13	1:B:321:ILE:HG23	0.68	1.65	5	3
1:A:86:PHE:CE2	2:A:126:NTH:H211	0.68	2.22	11	1
1:B:317:GLY:O	1:B:321:ILE:HD12	0.68	1.88	12	2
1:A:115:LEU:HD13	1:B:300:HIS:NE2	0.68	2.03	10	3
1:A:81:ALA:HB2	1:A:98:ILE:CG2	0.68	2.15	7	5
1:A:45:ARG:CD	1:A:50:ALA:HB1	0.68	2.19	1	2
1:B:304:ASN:HB3	1:B:310:VAL:HG21	0.68	1.66	15	7
1:B:203:THR:O	1:B:203:THR:HG23	0.68	1.88	15	3
1:A:72:ARG:HG3	1:A:79:ALA:HB3	0.68	1.66	9	1
1:B:315:LEU:O	1:B:316:PHE:CD1	0.68	2.47	7	3
1:B:281:ALA:HB1	1:B:298:ILE:CD1	0.68	2.17	11	1
1:B:261:LEU:HD13	2:B:326:NTH:H121	0.68	1.64	12	1
1:B:271:VAL:HG13	1:B:280:PHE:CB	0.68	2.19	14	9
1:A:116:PHE:O	1:B:274:VAL:HG22	0.68	1.89	4	1
1:A:93:THR:HG23	1:A:123:ALA:HA	0.68	1.65	4	1
1:B:210:VAL:CG2	1:B:309:VAL:HG23	0.67	2.19	10	2
1:A:3:THR:O	1:A:3:THR:HG23	0.67	1.89	15	2
1:B:261:LEU:HD22	1:B:263:LEU:HD23	0.67	1.65	12	4
1:B:295:VAL:CG2	1:B:321:ILE:HG23	0.67	2.18	2	7
1:B:210:VAL:CA	1:B:229:LEU:HD21	0.67	2.19	15	7
1:B:261:LEU:HD23	1:B:263:LEU:HD23	0.67	1.67	15	2
1:A:63:LEU:CD1	1:A:84:VAL:HG13	0.67	2.12	14	1
1:A:14:TYR:CZ	1:A:18:LEU:HD11	0.67	2.24	7	3
1:B:268:THR:O	1:B:270:GLU:N	0.67	2.27	8	1
1:B:301:PHE:HE1	1:B:309:VAL:HG21	0.67	1.49	6	2
1:A:14:TYR:CE1	1:A:55:PHE:CE2	0.67	2.82	7	2
1:B:210:VAL:HG21	1:B:303:PHE:CE1	0.66	2.24	2	1
1:A:63:LEU:HB3	1:A:84:VAL:HG12	0.66	1.67	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:316:PHE:CG	1:B:317:GLY:N	0.66	2.64	5	5
1:A:61:LEU:HD12	2:A:126:NTH:H122	0.66	1.64	2	1
1:A:23:LEU:HD21	1:A:52:ARG:HA	0.66	1.67	3	3
1:A:71:VAL:HG13	1:A:80:PHE:CB	0.66	2.19	3	6
1:A:3:THR:HG23	1:A:3:THR:O	0.66	1.89	6	5
1:B:221:GLY:HA2	1:B:259:LEU:HD11	0.66	1.67	10	9
1:B:211:VAL:HG22	1:B:280:PHE:CD2	0.66	2.25	2	1
1:A:115:LEU:HD13	1:B:300:HIS:CE1	0.66	2.26	3	1
1:A:11:VAL:CG1	1:A:71:VAL:HG21	0.66	2.20	6	12
1:B:258:SER:OG	2:B:326:NTH:H112	0.66	1.91	15	4
1:B:305:GLY:O	1:B:306:ALA:HB2	0.66	1.91	14	7
1:A:40:VAL:HG23	1:A:40:VAL:O	0.66	1.90	15	3
1:A:72:ARG:CZ	1:A:74:VAL:CG2	0.66	2.73	9	1
1:B:236:VAL:HG23	1:B:251:ILE:CD1	0.66	2.20	12	1
1:B:298:ILE:HD12	1:B:320:ASN:OD1	0.66	1.91	3	2
1:A:105:GLY:O	1:A:106:ALA:HB2	0.66	1.91	11	9
1:A:40:VAL:O	1:B:275:ALA:HB2	0.66	1.90	14	1
1:A:21:GLY:HA2	1:A:59:LEU:HD11	0.65	1.69	2	6
1:B:317:GLY:C	1:B:321:ILE:HD12	0.65	2.11	3	2
1:B:261:LEU:O	1:B:263:LEU:HD23	0.65	1.91	1	1
1:A:115:LEU:O	1:A:116:PHE:CD1	0.65	2.49	4	1
1:A:61:LEU:HD23	1:A:63:LEU:HD23	0.65	1.68	12	3
1:A:35:THR:HG23	1:A:46:SER:CB	0.65	2.22	5	1
1:B:286:PHE:CE2	1:B:293:THR:CG2	0.65	2.79	14	1
1:B:264:ALA:HB3	1:B:285:SER:HG	0.65	1.51	14	3
1:B:210:VAL:CG1	1:B:301:PHE:CE1	0.65	2.80	10	11
1:A:86:PHE:CZ	2:A:126:NTH:H221	0.65	2.26	13	8
1:A:10:VAL:CA	1:A:29:LEU:HD21	0.65	2.21	14	3
1:B:263:LEU:CB	1:B:284:VAL:HG12	0.65	2.20	14	4
1:A:67:LEU:HD22	1:A:71:VAL:CG2	0.65	2.22	10	1
1:A:14:TYR:CE1	1:A:18:LEU:CD1	0.64	2.80	1	14
1:A:105:GLY:O	1:A:106:ALA:HB3	0.64	1.91	15	3
1:B:234:ALA:C	1:B:251:ILE:HD11	0.64	2.12	9	1
1:A:10:VAL:CG1	1:A:101:PHE:CZ	0.64	2.79	7	11
1:B:305:GLY:O	1:B:306:ALA:HB3	0.64	1.92	8	4
1:A:63:LEU:HB2	1:A:84:VAL:HG13	0.64	1.69	12	5
1:B:317:GLY:O	1:B:321:ILE:HD11	0.64	1.92	9	9
1:B:226:ILE:HG21	1:B:255:PHE:CD2	0.64	2.27	3	5
1:A:15:VAL:HB	1:A:67:LEU:HD11	0.64	1.68	5	2
1:B:293:THR:HG23	1:B:323:ALA:CA	0.64	2.23	15	1
1:B:214:TYR:CE1	1:B:218:LEU:CD1	0.64	2.80	6	15

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:30:PHE:CD2	1:A:51:ILE:CG2	0.64	2.80	8	3
1:A:10:VAL:CG1	1:A:101:PHE:CE1	0.64	2.81	14	9
1:A:82:PHE:N	1:A:82:PHE:CD1	0.64	2.65	4	6
1:A:10:VAL:CG2	1:A:103:PHE:CZ	0.64	2.81	6	6
1:A:94:VAL:HG12	1:A:122:HIS:CB	0.64	2.22	9	9
1:A:58:SER:OG	2:A:126:NTH:H111	0.64	1.93	11	2
1:A:95:VAL:HG12	1:A:97:PRO:CD	0.64	2.22	6	11
1:A:61:LEU:HD12	1:A:63:LEU:CG	0.64	2.22	9	1
1:B:210:VAL:CG1	1:B:301:PHE:CZ	0.64	2.81	7	10
1:A:40:VAL:O	1:A:40:VAL:HG23	0.64	1.93	13	2
1:B:282:PHE:N	1:B:282:PHE:CD1	0.63	2.66	13	6
1:A:7:MET:CE	1:A:103:PHE:CD2	0.63	2.81	3	1
1:B:309:VAL:CG1	1:B:312:MET:HE1	0.63	2.21	13	1
1:B:223:LEU:CD2	1:B:256:ALA:HB2	0.63	2.24	4	7
1:B:296:ALA:HB3	1:B:320:ASN:O	0.63	1.92	12	4
1:A:115:LEU:HD11	1:B:279:ALA:CB	0.63	2.23	4	1
1:A:10:VAL:CG1	1:A:103:PHE:CZ	0.63	2.82	3	5
1:A:101:PHE:CE1	1:A:112:MET:CE	0.63	2.82	10	2
1:B:258:SER:OG	2:B:326:NTH:H111	0.63	1.94	9	3
1:B:277:GLU:O	1:B:278:ALA:HB2	0.63	1.92	15	7
1:A:104:ASN:HB3	1:A:110:VAL:HG11	0.63	1.70	8	1
1:B:286:PHE:N	1:B:286:PHE:CD1	0.63	2.66	8	1
1:B:221:GLY:C	1:B:259:LEU:HD21	0.63	2.12	11	8
1:B:282:PHE:CD1	1:B:282:PHE:N	0.63	2.65	11	2
1:A:88:PHE:N	1:A:88:PHE:CD1	0.63	2.66	15	2
1:B:286:PHE:CZ	1:B:293:THR:HG23	0.63	2.28	14	1
1:A:35:THR:O	1:A:36:VAL:HG23	0.63	1.92	15	1
1:A:58:SER:OG	2:A:126:NTH:H112	0.63	1.93	3	3
1:A:86:PHE:CD1	1:A:86:PHE:N	0.63	2.66	6	5
1:B:288:PHE:CD1	1:B:288:PHE:N	0.63	2.66	9	4
1:A:23:LEU:HD21	1:A:59:LEU:HD22	0.63	1.71	5	2
1:B:297:PRO:CB	1:B:316:PHE:CD1	0.63	2.82	7	2
1:A:40:VAL:HG23	1:A:41:GLY:N	0.63	2.08	2	2
1:A:116:PHE:CE2	2:A:126:NTH:H61	0.63	2.29	10	1
1:A:18:LEU:HD21	1:A:55:PHE:CE1	0.63	2.27	10	1
1:A:98:ILE:HD12	1:B:272:ARG:HH21	0.63	1.54	14	1
1:B:263:LEU:CD1	1:B:284:VAL:HG13	0.63	2.22	1	1
1:B:210:VAL:CG2	1:B:303:PHE:CZ	0.63	2.82	3	2
1:A:45:ARG:HD3	1:A:50:ALA:HB1	0.62	1.69	1	2
1:B:295:VAL:HG12	1:B:297:PRO:CD	0.62	2.24	2	13
1:B:286:PHE:CD1	1:B:286:PHE:N	0.62	2.65	14	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:67:LEU:HD23	1:A:81:ALA:O	0.62	1.94	5	2
1:A:94:VAL:HG13	1:A:95:VAL:N	0.62	2.08	12	7
1:B:226:ILE:HG22	1:B:230:PHE:CE2	0.62	2.28	2	1
1:B:230:PHE:CD2	1:B:251:ILE:CG2	0.62	2.83	4	6
1:A:115:LEU:CD1	1:B:279:ALA:HB2	0.62	2.24	1	6
1:A:23:LEU:HD22	1:A:59:LEU:HD22	0.62	1.71	2	6
1:A:30:PHE:CG	1:A:51:ILE:HG21	0.62	2.28	3	4
1:A:26:ILE:HG21	1:A:55:PHE:HD2	0.62	1.54	7	1
1:B:226:ILE:CG2	1:B:255:PHE:CD2	0.62	2.82	7	1
1:B:210:VAL:HG22	1:B:309:VAL:CG2	0.62	2.25	14	4
1:B:223:LEU:O	1:B:227:VAL:HG23	0.62	1.93	8	2
1:B:214:TYR:CE1	1:B:218:LEU:HD11	0.62	2.29	7	15
1:A:18:LEU:HB3	1:A:65:VAL:HG11	0.62	1.72	9	2
1:B:203:THR:HG23	1:B:203:THR:O	0.62	1.93	13	5
1:A:17:ALA:HB1	1:A:22:ASP:OD1	0.62	1.95	6	1
1:B:210:VAL:HG21	1:B:303:PHE:CE2	0.62	2.29	14	4
1:B:245:ARG:CD	1:B:254:PHE:CD1	0.62	2.82	9	1
1:A:74:VAL:HG13	1:B:316:PHE:O	0.62	1.95	8	3
1:A:61:LEU:O	1:A:61:LEU:HD23	0.62	1.94	6	1
1:B:223:LEU:HD21	1:B:259:LEU:HD22	0.62	1.70	3	3
1:B:245:ARG:HG2	1:B:250:ALA:HB1	0.62	1.71	5	1
1:A:75:ALA:HB3	1:B:240:VAL:CG1	0.62	2.16	10	1
1:B:211:VAL:CG1	1:B:271:VAL:HG21	0.61	2.24	10	11
1:A:95:VAL:HG22	1:A:121:ILE:CG2	0.61	2.24	14	8
1:A:40:VAL:HB	1:B:274:VAL:HG11	0.61	1.71	4	1
1:A:79:ALA:CB	1:B:315:LEU:HD21	0.61	2.25	8	2
1:B:322:HIS:NE2	2:B:326:NTH:H212	0.61	2.10	13	1
1:A:86:PHE:CE1	2:A:126:NTH:H221	0.61	2.30	7	2
1:A:14:TYR:CE1	1:A:55:PHE:CZ	0.61	2.88	7	1
1:B:210:VAL:CG1	1:B:303:PHE:CZ	0.61	2.84	10	9
1:A:21:GLY:O	1:A:59:LEU:HD21	0.61	1.95	4	4
1:A:26:ILE:HD13	1:A:55:PHE:CE1	0.61	2.31	2	1
1:B:240:VAL:HG23	1:B:240:VAL:O	0.61	1.94	12	3
1:A:71:VAL:HG22	1:A:80:PHE:HB2	0.61	1.72	6	2
1:A:113:ARG:NH2	1:B:300:HIS:CE1	0.61	2.69	9	1
1:B:286:PHE:CE2	1:B:293:THR:HG23	0.61	2.30	14	1
1:B:263:LEU:HD23	1:B:286:PHE:HB3	0.61	1.73	4	3
1:B:288:PHE:N	1:B:288:PHE:CD1	0.61	2.67	7	1
1:A:21:GLY:C	1:A:59:LEU:HD21	0.61	2.16	7	11
1:B:211:VAL:CG2	1:B:301:PHE:CE2	0.61	2.84	3	8
1:B:234:ALA:HB3	1:B:251:ILE:CD1	0.61	2.24	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:61:LEU:HD23	1:A:63:LEU:CD2	0.61	2.25	12	2
1:B:304:ASN:OD1	1:B:310:VAL:HG21	0.61	1.96	14	1
1:A:11:VAL:HG11	1:A:71:VAL:CG1	0.61	2.25	2	2
1:B:293:THR:HG22	1:B:323:ALA:HA	0.61	1.71	12	2
1:B:211:VAL:HG22	1:B:301:PHE:CD2	0.61	2.31	10	8
1:A:40:VAL:CB	1:B:274:VAL:HG11	0.61	2.25	4	1
1:B:227:VAL:HG21	1:B:252:ARG:HB2	0.61	1.73	5	7
1:B:277:GLU:HG2	1:B:278:ALA:N	0.61	2.11	14	1
1:B:234:ALA:HB1	1:B:310:VAL:O	0.61	1.96	8	8
1:B:295:VAL:HG13	1:B:320:ASN:ND2	0.61	2.10	4	1
1:B:316:PHE:CD1	1:B:316:PHE:C	0.60	2.74	5	2
1:B:294:VAL:HG13	1:B:322:HIS:HB2	0.60	1.72	10	3
1:A:85:SER:HA	1:A:94:VAL:HG23	0.60	1.72	2	5
1:B:226:ILE:HG21	1:B:255:PHE:CD1	0.60	2.31	7	1
1:B:263:LEU:CB	1:B:284:VAL:CG1	0.60	2.80	3	6
1:A:30:PHE:CZ	1:A:112:MET:CE	0.60	2.85	10	2
1:A:61:LEU:CD2	1:A:63:LEU:HD23	0.60	2.26	4	1
1:A:61:LEU:CD2	1:A:63:LEU:CD2	0.60	2.79	4	9
1:A:23:LEU:HD11	1:A:55:PHE:C	0.60	2.17	8	6
1:B:238:ASP:OD2	2:B:326:NTH:H62	0.60	1.96	7	5
1:B:261:LEU:CD2	1:B:263:LEU:CD2	0.60	2.80	7	10
1:A:61:LEU:HD23	1:A:63:LEU:HD11	0.60	1.73	3	1
1:B:210:VAL:HG21	1:B:303:PHE:CZ	0.60	2.31	3	2
1:B:223:LEU:HD11	1:B:255:PHE:C	0.60	2.17	15	5
1:B:226:ILE:HD13	1:B:255:PHE:CD2	0.60	2.32	8	3
1:B:315:LEU:O	1:B:316:PHE:CB	0.60	2.50	5	2
1:B:236:VAL:CG2	1:B:251:ILE:HG23	0.60	2.27	9	1
1:B:280:PHE:O	1:B:298:ILE:HG23	0.60	1.96	15	5
1:B:210:VAL:CG2	1:B:309:VAL:CG2	0.60	2.79	14	4
1:A:30:PHE:CE1	1:A:112:MET:HE1	0.60	2.32	2	2
1:A:61:LEU:HD13	1:A:63:LEU:HD21	0.60	1.73	2	1
1:A:58:SER:HB2	2:A:126:NTH:H11	0.60	1.73	7	1
1:A:86:PHE:N	1:A:86:PHE:CD1	0.60	2.69	15	3
1:A:85:SER:CB	1:A:94:VAL:HG23	0.59	2.26	3	1
1:A:79:ALA:CB	1:B:315:LEU:CD1	0.59	2.80	7	3
1:A:10:VAL:HG22	1:A:109:VAL:CG2	0.59	2.27	2	2
1:B:213:ARG:CB	1:B:229:LEU:HD22	0.59	2.24	7	3
1:B:223:LEU:CD2	1:B:252:ARG:CG	0.59	2.81	13	9
1:B:223:LEU:HD21	1:B:259:LEU:HB2	0.59	1.74	7	1
1:A:100:HIS:NE2	1:B:300:HIS:CD2	0.59	2.70	15	1
1:B:230:PHE:CE1	1:B:312:MET:HE1	0.59	2.32	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:75:ALA:HB1	1:B:241:GLY:HA3	0.59	1.73	3	1
1:A:10:VAL:HG13	1:A:101:PHE:CE1	0.59	2.33	6	4
1:A:40:VAL:CG2	1:B:274:VAL:CG1	0.59	2.81	4	1
1:B:218:LEU:HB3	1:B:265:VAL:HG21	0.59	1.73	15	5
1:A:63:LEU:CB	1:A:84:VAL:CG1	0.59	2.81	11	3
1:B:276:ASN:O	1:B:303:PHE:CD1	0.59	2.55	7	3
1:B:210:VAL:HG12	1:B:301:PHE:CZ	0.59	2.32	13	6
1:A:88:PHE:CD2	1:A:93:THR:OG1	0.59	2.55	14	5
1:B:236:VAL:HG23	1:B:251:ILE:HD12	0.59	1.73	12	2
1:B:321:ILE:HG22	1:B:322:HIS:N	0.59	2.13	7	2
1:A:23:LEU:HD22	1:A:56:ALA:HB2	0.59	1.73	11	2
1:A:77:GLU:HG2	1:A:78:ALA:N	0.59	2.11	12	1
1:B:230:PHE:CZ	1:B:312:MET:HE3	0.59	2.33	12	1
1:A:34:ALA:HB1	1:A:110:VAL:O	0.59	1.97	7	9
1:B:247:GLY:O	1:B:251:ILE:HD12	0.59	1.98	6	7
1:A:100:HIS:CG	1:A:101:PHE:N	0.59	2.71	9	3
1:A:72:ARG:CZ	1:A:74:VAL:HG22	0.58	2.28	5	1
1:B:238:ASP:O	1:B:254:PHE:CE2	0.58	2.56	15	3
1:A:80:PHE:CZ	1:A:99:ASP:HB3	0.58	2.34	11	14
1:B:288:PHE:CD2	1:B:293:THR:OG1	0.58	2.57	5	3
1:A:86:PHE:CE1	1:A:88:PHE:CE1	0.58	2.91	4	1
1:B:258:SER:OG	2:B:326:NTH:H10	0.58	1.98	9	2
1:A:26:ILE:CG2	1:A:30:PHE:CE2	0.58	2.83	1	1
1:A:11:VAL:HG11	1:A:71:VAL:HG22	0.58	1.74	12	2
1:B:245:ARG:NH1	1:B:251:ILE:CG1	0.58	2.66	7	1
1:B:294:VAL:O	1:B:321:ILE:O	0.58	2.20	7	2
1:B:236:VAL:CG1	1:B:237:GLU:N	0.58	2.65	12	3
1:B:261:LEU:HD12	1:B:263:LEU:HG	0.58	1.76	14	1
1:B:261:LEU:HD13	1:B:262:PRO:HD2	0.58	1.74	14	1
1:A:38:ASP:O	1:A:54:PHE:CZ	0.58	2.56	15	7
1:A:63:LEU:HD23	1:A:86:PHE:CG	0.58	2.33	9	4
1:B:238:ASP:OD1	1:B:314:ALA:HB3	0.58	1.98	15	2
1:A:80:PHE:CE2	1:A:82:PHE:CE2	0.58	2.91	10	2
1:A:80:PHE:O	1:A:98:ILE:HG23	0.58	1.98	2	3
1:A:11:VAL:CG2	1:A:101:PHE:CE2	0.58	2.87	14	8
1:A:77:GLU:O	1:A:78:ALA:HB2	0.58	1.99	13	6
1:A:86:PHE:CZ	1:A:93:THR:OG1	0.58	2.57	14	1
1:A:36:VAL:CG1	1:A:37:GLU:N	0.58	2.67	11	5
1:A:23:LEU:CD2	1:A:52:ARG:CG	0.58	2.81	9	7
1:A:63:LEU:CD2	1:A:84:VAL:CG1	0.58	2.81	7	2
1:B:230:PHE:HD2	1:B:251:ILE:HG21	0.58	1.58	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:226:ILE:CD1	1:B:255:PHE:CD1	0.58	2.86	7	1
1:A:3:THR:O	1:A:6:HIS:CE1	0.58	2.57	11	1
1:B:316:PHE:CD2	1:B:317:GLY:N	0.58	2.71	9	9
1:B:230:PHE:CE1	1:B:312:MET:CE	0.58	2.86	2	1
1:A:72:ARG:CZ	1:A:74:VAL:HG23	0.58	2.28	9	1
1:B:269:GLN:NE2	1:B:281:ALA:HB3	0.58	2.13	13	1
1:A:116:PHE:CD2	1:A:117:GLY:N	0.58	2.72	4	6
1:B:223:LEU:CD2	1:B:259:LEU:CD2	0.58	2.80	7	6
1:B:316:PHE:CD2	1:B:320:ASN:OD1	0.58	2.57	4	1
1:B:295:VAL:HG22	1:B:321:ILE:HA	0.58	1.75	4	1
1:A:94:VAL:CG1	1:A:122:HIS:CB	0.58	2.82	14	4
1:B:297:PRO:HB3	1:B:316:PHE:CD1	0.58	2.32	7	1
1:B:223:LEU:HD23	1:B:252:ARG:HG2	0.58	1.76	9	4
1:A:6:HIS:NE2	1:A:7:MET:CG	0.58	2.67	11	1
1:A:78:ALA:HB3	1:A:101:PHE:HB2	0.58	1.74	2	6
1:A:116:PHE:CE1	2:A:126:NTH:H62	0.58	2.34	2	1
1:B:236:VAL:CG2	1:B:251:ILE:CD1	0.58	2.81	12	1
1:B:286:PHE:CD1	1:B:293:THR:O	0.57	2.57	9	2
1:A:26:ILE:HG21	1:A:55:PHE:CD2	0.57	2.33	7	3
1:A:101:PHE:CE1	1:A:112:MET:HE2	0.57	2.33	10	1
1:B:234:ALA:CB	1:B:310:VAL:O	0.57	2.52	8	8
1:A:43:GLU:N	1:A:44:PRO:HD3	0.57	2.14	3	5
1:A:37:GLU:O	1:A:114:ALA:HB3	0.57	1.99	2	1
1:A:13:ARG:HD3	1:A:29:LEU:HD13	0.57	1.74	7	1
1:A:76:ASN:O	1:A:103:PHE:CG	0.57	2.57	13	1
1:A:64:ALA:HB3	1:A:85:SER:HG	0.57	1.59	15	3
1:B:211:VAL:HG11	1:B:271:VAL:HG22	0.57	1.76	2	3
1:A:72:ARG:NE	1:A:74:VAL:CG2	0.57	2.67	9	1
1:A:103:PHE:CE1	1:A:108:LYS:O	0.57	2.57	2	1
1:B:235:THR:HG23	1:B:246:SER:CB	0.57	2.25	11	3
1:A:117:GLY:O	1:A:121:ILE:HD11	0.57	1.99	5	10
1:A:67:LEU:C	1:A:68:THR:HG22	0.57	2.18	5	1
1:A:23:LEU:HA	1:A:26:ILE:HD12	0.57	1.76	10	1
1:A:23:LEU:CD2	1:A:59:LEU:CD2	0.57	2.82	5	7
1:A:13:ARG:CB	1:A:29:LEU:HD22	0.57	2.25	9	2
1:A:27:VAL:HG21	1:A:52:ARG:HG3	0.57	1.77	8	1
1:A:15:VAL:HG13	1:A:65:VAL:CG1	0.57	2.29	8	1
1:A:10:VAL:HG11	1:A:109:VAL:CG2	0.57	2.30	9	1
1:A:23:LEU:HD23	1:A:52:ARG:HG2	0.57	1.73	11	2
1:B:304:ASN:N	1:B:310:VAL:HG21	0.57	2.14	13	1
1:B:322:HIS:O	1:B:322:HIS:ND1	0.57	2.37	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:115:LEU:CD1	1:B:279:ALA:CB	0.57	2.83	1	2
1:A:38:ASP:OD2	2:A:126:NTH:H10	0.57	2.00	2	1
1:B:230:PHE:CZ	1:B:312:MET:CE	0.57	2.88	9	2
1:B:286:PHE:CE2	1:B:288:PHE:CE1	0.57	2.92	9	2
1:A:95:VAL:CG1	1:A:120:ASN:ND2	0.57	2.67	10	2
1:A:38:ASP:OD2	2:A:126:NTH:H62	0.57	2.00	9	5
1:B:301:PHE:CE1	1:B:312:MET:SD	0.57	2.98	13	2
1:A:67:LEU:CD2	1:A:71:VAL:CG2	0.57	2.83	10	1
1:B:304:ASN:N	1:B:304:ASN:ND2	0.57	2.53	10	2
1:A:88:PHE:CZ	1:A:93:THR:OG1	0.57	2.57	11	1
1:A:63:LEU:HD13	1:A:84:VAL:HG11	0.56	1.76	9	2
1:B:240:VAL:O	1:B:240:VAL:HG23	0.56	2.00	14	2
1:B:304:ASN:HB3	1:B:310:VAL:HG11	0.56	1.77	11	1
1:B:206:HIS:CE1	1:B:207:MET:CG	0.56	2.88	13	1
1:A:61:LEU:HD22	1:A:63:LEU:HD23	0.56	1.77	13	2
1:B:263:LEU:CD2	1:B:284:VAL:HG12	0.56	2.29	13	1
1:B:286:PHE:CZ	1:B:293:THR:OG1	0.56	2.57	5	6
1:A:14:TYR:CD1	1:A:14:TYR:C	0.56	2.78	2	10
1:B:235:THR:HG22	1:B:246:SER:HB2	0.56	1.74	2	2
1:A:74:VAL:CB	1:B:240:VAL:HG21	0.56	2.30	4	2
1:A:11:VAL:CG2	1:A:101:PHE:CD2	0.56	2.87	6	3
1:B:211:VAL:HG11	1:B:271:VAL:CG1	0.56	2.29	7	2
1:A:61:LEU:CD1	1:A:63:LEU:HD21	0.56	2.30	9	1
1:A:98:ILE:HD11	1:B:272:ARG:CZ	0.56	2.31	12	1
1:A:101:PHE:CE1	1:A:112:MET:SD	0.56	2.98	12	2
1:B:294:VAL:O	1:B:322:HIS:HB3	0.56	2.00	13	1
1:B:293:THR:HG22	1:B:294:VAL:N	0.56	2.16	15	1
1:B:294:VAL:HG13	1:B:322:HIS:CB	0.56	2.31	10	3
1:A:61:LEU:HD12	1:A:63:LEU:CD2	0.56	2.31	9	1
1:B:280:PHE:CZ	1:B:299:ASP:HB3	0.56	2.36	11	14
1:A:109:VAL:HG12	1:A:110:VAL:N	0.56	2.16	14	3
1:A:38:ASP:OD2	1:A:114:ALA:HB3	0.56	2.01	8	2
1:A:30:PHE:CE1	1:A:112:MET:HE3	0.56	2.35	6	2
1:A:94:VAL:HG13	1:A:122:HIS:HB3	0.56	1.78	15	1
1:B:307:GLY:O	1:B:308:LYS:CB	0.56	2.53	1	2
1:B:294:VAL:HG12	1:B:322:HIS:CB	0.56	2.31	11	7
1:B:296:ALA:N	1:B:320:ASN:O	0.56	2.39	12	6
1:A:94:VAL:O	1:A:122:HIS:CB	0.56	2.54	14	6
1:B:297:PRO:CB	1:B:316:PHE:CG	0.56	2.89	9	1
1:B:279:ALA:HB2	1:B:300:HIS:CE1	0.56	2.36	14	1
1:A:36:VAL:O	1:A:44:PRO:CB	0.56	2.54	1	14

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:240:VAL:HG22	1:B:316:PHE:HE1	0.56	1.60	5	1
1:A:107:GLY:O	1:A:108:LYS:CB	0.56	2.53	14	2
1:A:43:GLU:O	1:A:54:PHE:CZ	0.56	2.59	8	2
1:B:321:ILE:HG21	2:B:326:NTH:H222	0.56	1.76	12	2
1:A:38:ASP:OD2	2:A:126:NTH:H61	0.56	2.01	12	1
1:A:76:ASN:O	1:A:103:PHE:CD2	0.56	2.59	13	1
1:A:72:ARG:CB	1:A:79:ALA:O	0.56	2.54	5	13
1:B:227:VAL:CG1	1:B:248:THR:HG23	0.56	2.30	11	5
1:A:10:VAL:CG2	1:A:109:VAL:CG2	0.56	2.83	2	3
1:A:11:VAL:HG22	1:A:101:PHE:HE2	0.56	1.60	3	5
1:B:211:VAL:HG22	1:B:301:PHE:HE2	0.56	1.57	3	5
1:A:68:THR:O	1:A:69:GLN:CG	0.56	2.54	5	2
1:B:294:VAL:O	1:B:322:HIS:CA	0.56	2.54	13	1
1:A:67:LEU:O	1:A:68:THR:CB	0.55	2.55	5	1
1:B:285:SER:OG	1:B:294:VAL:HG23	0.55	2.02	3	1
1:A:86:PHE:CD1	1:A:86:PHE:C	0.55	2.79	4	1
1:A:10:VAL:HG22	1:A:109:VAL:HG23	0.55	1.77	6	6
1:B:285:SER:HA	1:B:294:VAL:HG23	0.55	1.79	6	2
1:B:214:TYR:C	1:B:214:TYR:CD1	0.55	2.79	7	9
1:A:94:VAL:HG12	1:A:122:HIS:HB2	0.55	1.78	9	3
1:A:10:VAL:CG1	1:A:109:VAL:CG2	0.55	2.84	9	4
1:A:15:VAL:HG13	1:A:65:VAL:HG12	0.55	1.79	8	1
1:B:316:PHE:CE1	2:B:326:NTH:H61	0.55	2.37	8	1
1:A:34:ALA:CB	1:A:110:VAL:O	0.55	2.55	3	9
1:B:294:VAL:CG1	1:B:322:HIS:CD2	0.55	2.90	8	1
1:B:261:LEU:HD12	1:B:263:LEU:CD1	0.55	2.31	14	1
1:B:236:VAL:O	1:B:244:PRO:CB	0.55	2.55	1	14
1:A:14:TYR:C	1:A:14:TYR:CD1	0.55	2.80	9	5
1:A:116:PHE:O	1:B:274:VAL:CG1	0.55	2.55	12	13
1:B:214:TYR:CD1	1:B:214:TYR:C	0.55	2.80	8	6
1:B:294:VAL:HG13	1:B:295:VAL:N	0.55	2.17	6	4
1:B:309:VAL:CG1	1:B:310:VAL:N	0.55	2.69	13	3
1:A:100:HIS:CB	1:A:113:ARG:NE	0.55	2.70	9	1
1:B:297:PRO:HB3	1:B:316:PHE:CG	0.55	2.36	9	1
1:A:39:PRO:O	1:A:40:VAL:O	0.55	2.25	2	1
1:B:304:ASN:CB	1:B:310:VAL:HG21	0.55	2.32	12	4
1:B:268:THR:O	1:B:269:GLN:CG	0.55	2.54	8	1
1:A:72:ARG:O	1:A:78:ALA:HB1	0.55	2.02	12	1
1:A:101:PHE:CD1	1:A:103:PHE:CE1	0.55	2.95	14	2
1:A:115:LEU:CD2	1:B:279:ALA:CB	0.55	2.83	10	2
1:A:11:VAL:CG2	1:A:71:VAL:HG11	0.55	2.32	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:304:ASN:OD1	1:B:310:VAL:HG22	0.55	2.00	1	1
1:A:34:ALA:N	1:A:51:ILE:CD1	0.55	2.67	5	2
1:A:23:LEU:CD2	1:A:56:ALA:HB2	0.55	2.32	14	5
1:B:238:ASP:O	1:B:254:PHE:CZ	0.55	2.59	8	6
1:B:238:ASP:OD2	1:B:314:ALA:CB	0.55	2.55	12	3
1:A:102:ARG:CB	1:A:111:SER:CB	0.55	2.84	10	2
1:A:82:PHE:CD1	1:A:82:PHE:N	0.55	2.74	8	1
1:B:288:PHE:CE2	1:B:291:ARG:HB3	0.55	2.37	9	1
1:B:234:ALA:N	1:B:251:ILE:CD1	0.55	2.69	11	4
1:A:10:VAL:O	1:A:14:TYR:CB	0.55	2.55	4	15
1:B:234:ALA:CA	1:B:310:VAL:O	0.55	2.55	12	9
1:B:305:GLY:O	1:B:306:ALA:CB	0.55	2.55	12	11
1:B:210:VAL:HG13	1:B:301:PHE:CE1	0.55	2.36	10	6
1:A:74:VAL:CG2	1:B:316:PHE:O	0.54	2.55	4	7
1:A:80:PHE:CD1	1:A:101:PHE:CD2	0.54	2.95	14	3
1:B:214:TYR:CE2	1:B:312:MET:CE	0.54	2.90	15	1
1:A:115:LEU:HD13	1:B:279:ALA:CB	0.54	2.30	11	3
1:A:74:VAL:CG1	1:B:316:PHE:O	0.54	2.55	4	11
1:B:240:VAL:HG13	1:B:316:PHE:CE1	0.54	2.38	3	1
1:A:104:ASN:OD1	1:A:110:VAL:CG2	0.54	2.56	10	5
1:B:303:PHE:CD1	1:B:303:PHE:N	0.54	2.74	14	5
1:A:67:LEU:HD22	1:A:71:VAL:HG23	0.54	1.78	10	1
1:A:109:VAL:CG1	1:A:110:VAL:N	0.54	2.70	14	4
1:B:275:ALA:O	1:B:276:ASN:CB	0.54	2.54	5	1
1:A:104:ASN:HD21	1:A:106:ALA:HB3	0.54	1.63	7	1
1:A:86:PHE:CZ	2:A:126:NTH:H211	0.54	2.37	11	2
1:B:238:ASP:OD1	1:B:314:ALA:CB	0.54	2.55	15	2
1:B:271:VAL:HG22	1:B:280:PHE:HB2	0.54	1.78	10	1
1:A:94:VAL:CG1	1:A:95:VAL:N	0.54	2.70	9	6
1:B:272:ARG:CB	1:B:279:ALA:O	0.54	2.56	2	13
1:A:61:LEU:HB3	1:A:63:LEU:HD21	0.54	1.78	4	1
1:A:94:VAL:HG22	1:A:95:VAL:N	0.54	2.16	15	5
1:A:85:SER:HB3	1:A:94:VAL:HG23	0.54	1.78	7	1
1:A:14:TYR:CD1	1:A:14:TYR:O	0.54	2.60	10	1
1:B:206:HIS:CE1	1:B:207:MET:HG3	0.54	2.36	13	1
1:B:321:ILE:HG22	1:B:322:HIS:H	0.54	1.63	3	11
1:B:288:PHE:O	1:B:290:GLY:N	0.54	2.41	13	2
1:B:236:VAL:HG12	1:B:237:GLU:N	0.54	2.17	9	2
1:B:297:PRO:HB2	1:B:316:PHE:CD1	0.54	2.37	9	1
1:A:95:VAL:HG13	1:A:120:ASN:O	0.54	2.01	10	1
1:A:69:GLN:HG2	1:A:70:GLU:N	0.54	2.18	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:61:LEU:O	1:A:63:LEU:CD2	0.54	2.56	14	2
1:A:13:ARG:NH2	1:A:29:LEU:CD1	0.54	2.69	4	1
1:A:75:ALA:O	1:A:76:ASN:CB	0.54	2.55	4	1
1:B:294:VAL:HG22	1:B:295:VAL:H	0.54	1.63	13	3
1:B:284:VAL:HG12	1:B:286:PHE:HD1	0.54	1.63	6	1
1:B:281:ALA:HB2	1:B:298:ILE:CG1	0.54	2.33	15	3
1:A:116:PHE:O	1:B:274:VAL:CG2	0.54	2.56	10	13
1:A:100:HIS:O	1:A:112:MET:CG	0.54	2.56	13	14
1:A:79:ALA:CB	1:B:315:LEU:CD2	0.54	2.80	4	2
1:B:315:LEU:O	1:B:316:PHE:CG	0.54	2.60	7	3
1:B:261:LEU:CD1	1:B:263:LEU:HD21	0.54	2.33	14	1
1:A:61:LEU:O	1:A:63:LEU:CD1	0.54	2.56	1	7
1:B:210:VAL:O	1:B:214:TYR:CB	0.54	2.56	15	14
1:B:304:ASN:OD1	1:B:310:VAL:CG1	0.54	2.56	4	1
1:B:263:LEU:HB3	1:B:284:VAL:HG13	0.54	1.79	7	2
1:A:10:VAL:CG2	1:A:109:VAL:HG23	0.54	2.32	6	6
1:A:17:ALA:CA	1:A:22:ASP:OD1	0.54	2.56	6	1
1:B:236:VAL:CG2	1:B:251:ILE:HD12	0.54	2.33	12	1
1:B:317:GLY:O	1:B:321:ILE:CD1	0.54	2.56	3	12
1:A:49:ALA:O	1:A:53:GLU:CB	0.54	2.56	10	7
1:A:95:VAL:HG22	1:A:121:ILE:HA	0.54	1.80	2	2
1:B:261:LEU:O	1:B:263:LEU:CD1	0.54	2.56	5	8
1:B:273:ALA:C	1:B:274:VAL:HG22	0.54	2.23	14	3
1:A:86:PHE:CD2	1:A:87:GLU:O	0.54	2.60	12	3
1:B:300:HIS:O	1:B:312:MET:CG	0.54	2.56	11	11
1:A:3:THR:O	1:A:7:MET:HE2	0.54	2.03	13	1
1:A:61:LEU:O	1:A:63:LEU:HD23	0.54	2.02	14	1
1:A:100:HIS:CD2	1:B:300:HIS:NE2	0.54	2.76	15	1
1:B:304:ASN:OD1	1:B:310:VAL:CG2	0.53	2.56	1	6
1:B:210:VAL:HG13	1:B:301:PHE:CZ	0.53	2.37	2	6
1:A:88:PHE:O	1:A:90:GLY:N	0.53	2.42	14	2
1:B:286:PHE:CZ	1:B:293:THR:HB	0.53	2.38	11	4
1:A:36:VAL:HG23	1:A:51:ILE:CD1	0.53	2.33	8	3
1:B:245:ARG:O	1:B:245:ARG:NH1	0.53	2.40	7	1
1:A:86:PHE:CD1	1:A:93:THR:O	0.53	2.61	8	1
1:A:40:VAL:O	1:B:275:ALA:HB3	0.53	2.03	8	1
1:B:304:ASN:OD1	1:B:310:VAL:CB	0.53	2.56	14	1
1:B:285:SER:HB3	1:B:294:VAL:HG23	0.53	1.80	13	1
1:B:258:SER:OG	2:B:326:NTH:H8	0.53	2.04	4	1
1:B:245:ARG:NH1	1:B:251:ILE:HG13	0.53	2.19	7	1
1:A:86:PHE:CE1	1:A:93:THR:O	0.53	2.61	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:77:GLU:CG	1:A:102:ARG:HG3	0.53	2.34	1	3
1:B:261:LEU:O	1:B:263:LEU:CD2	0.53	2.57	1	2
1:B:296:ALA:O	1:B:320:ASN:ND2	0.53	2.42	5	6
1:A:61:LEU:HD12	1:A:63:LEU:HG	0.53	1.78	9	1
1:B:243:GLU:O	1:B:254:PHE:CZ	0.53	2.61	15	3
1:B:249:ALA:O	1:B:253:GLU:CB	0.53	2.56	4	4
1:A:120:ASN:OD1	1:A:121:ILE:CD1	0.53	2.57	2	2
1:A:88:PHE:CE1	1:A:91:ARG:O	0.53	2.62	8	1
1:B:261:LEU:HD23	1:B:261:LEU:O	0.53	2.02	8	1
1:A:100:HIS:CB	1:A:113:ARG:O	0.53	2.57	14	2
1:B:293:THR:OG1	1:B:294:VAL:N	0.53	2.42	14	1
1:A:15:VAL:O	1:A:18:LEU:N	0.53	2.42	9	14
1:A:41:GLY:O	1:A:42:SER:CB	0.53	2.55	3	4
1:B:246:SER:O	1:B:250:ALA:CB	0.53	2.57	11	8
1:B:276:ASN:O	1:B:303:PHE:N	0.53	2.42	15	5
1:B:252:ARG:O	1:B:256:ALA:CB	0.53	2.56	15	8
1:B:280:PHE:CE1	1:B:301:PHE:CD2	0.53	2.97	6	2
1:A:38:ASP:O	1:A:54:PHE:CE2	0.53	2.62	10	3
1:A:34:ALA:CB	1:A:51:ILE:CD1	0.53	2.82	7	1
1:B:245:ARG:O	1:B:245:ARG:CZ	0.53	2.57	7	1
1:B:247:GLY:O	1:B:251:ILE:CG1	0.53	2.57	14	7
1:A:38:ASP:O	1:A:43:GLU:CB	0.53	2.56	3	3
1:A:62:PRO:O	1:A:86:PHE:CB	0.53	2.57	2	4
1:B:235:THR:O	1:B:236:VAL:HG23	0.53	2.04	2	1
1:A:23:LEU:O	1:A:26:ILE:N	0.53	2.42	9	7
1:B:294:VAL:O	1:B:295:VAL:HG23	0.53	2.04	7	2
1:B:239:PRO:O	1:B:240:VAL:CG1	0.53	2.56	9	1
1:A:7:MET:CB	1:A:73:ALA:HB1	0.53	2.29	13	1
1:A:40:VAL:C	1:B:275:ALA:HB2	0.53	2.23	14	1
1:B:299:ASP:OD1	1:B:300:HIS:N	0.53	2.42	1	4
1:B:278:ALA:O	1:B:301:PHE:N	0.53	2.42	6	13
1:A:38:ASP:OD2	1:A:114:ALA:CB	0.53	2.57	8	4
1:B:294:VAL:CG1	1:B:322:HIS:CB	0.53	2.87	8	5
1:A:81:ALA:C	1:A:82:PHE:CD2	0.53	2.82	14	5
1:A:45:ARG:O	1:A:51:ILE:CD1	0.53	2.57	3	4
1:B:245:ARG:HB2	1:B:254:PHE:CD2	0.53	2.39	3	3
1:B:221:GLY:HA3	1:B:259:LEU:HD21	0.53	1.78	15	2
1:A:72:ARG:NE	1:A:73:ALA:N	0.53	2.57	5	1
1:A:80:PHE:CE2	1:A:82:PHE:CE1	0.53	2.97	6	2
1:B:219:ASN:ND2	1:B:265:VAL:O	0.53	2.42	7	3
1:B:267:LEU:O	1:B:268:THR:CG2	0.53	2.57	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:88:PHE:CZ	2:A:126:NTH:O23	0.53	2.62	1	2
1:A:36:VAL:HG12	1:A:37:GLU:N	0.53	2.18	8	4
1:B:217:ALA:O	1:B:222:ASP:N	0.53	2.42	9	10
1:B:298:ILE:HG22	1:B:299:ASP:N	0.53	2.19	12	4
1:B:245:ARG:CB	1:B:250:ALA:HB1	0.53	2.33	14	4
1:A:41:GLY:O	1:A:42:SER:C	0.53	2.47	2	1
1:B:294:VAL:O	1:B:322:HIS:CB	0.53	2.57	14	2
1:A:34:ALA:CA	1:A:110:VAL:O	0.53	2.57	1	9
1:B:215:VAL:O	1:B:218:LEU:N	0.53	2.42	8	15
1:A:117:GLY:O	1:A:121:ILE:CD1	0.53	2.57	5	9
1:A:103:PHE:CD1	1:A:108:LYS:O	0.53	2.62	2	1
1:A:105:GLY:O	1:A:106:ALA:CB	0.53	2.57	5	10
1:A:76:ASN:O	1:A:103:PHE:N	0.53	2.42	10	8
1:B:247:GLY:O	1:B:251:ILE:CD1	0.53	2.57	6	6
1:A:45:ARG:O	1:A:51:ILE:HD11	0.53	2.03	11	3
1:B:295:VAL:CG1	1:B:321:ILE:HG23	0.53	2.33	5	2
1:B:232:ASP:O	1:B:248:THR:N	0.53	2.42	10	3
1:B:293:THR:CB	1:B:322:HIS:HB2	0.53	2.34	13	2
1:B:215:VAL:HG21	1:B:267:LEU:HD21	0.53	1.80	8	1
1:B:201:MET:O	1:B:202:ASN:CB	0.52	2.57	2	2
1:A:47:GLY:O	1:A:51:ILE:CG1	0.52	2.56	14	4
1:A:45:ARG:HB2	1:A:54:PHE:CD2	0.52	2.38	2	2
1:B:276:ASN:ND2	1:B:303:PHE:O	0.52	2.43	2	1
1:A:86:PHE:CZ	1:A:93:THR:HB	0.52	2.39	7	6
1:B:298:ILE:CD1	1:B:320:ASN:OD1	0.52	2.57	3	2
1:A:17:ALA:O	1:A:22:ASP:N	0.52	2.43	9	7
1:B:294:VAL:HG12	1:B:322:HIS:HB3	0.52	1.79	14	4
1:B:300:HIS:CB	1:B:313:ARG:O	0.52	2.57	4	2
1:B:245:ARG:HD2	1:B:251:ILE:N	0.52	2.20	7	1
1:A:61:LEU:HB2	2:A:126:NTH:H183	0.52	1.78	12	1
1:A:36:VAL:O	1:A:44:PRO:CA	0.52	2.57	6	5
1:A:45:ARG:HG2	1:A:50:ALA:CB	0.52	2.34	2	1
1:B:229:LEU:O	1:B:309:VAL:CG2	0.52	2.57	2	1
1:A:52:ARG:O	1:A:56:ALA:CB	0.52	2.58	7	6
1:B:207:MET:HA	1:B:303:PHE:CZ	0.52	2.40	7	2
1:B:286:PHE:CZ	1:B:293:THR:CB	0.52	2.92	5	4
1:A:34:ALA:O	1:A:51:ILE:CD1	0.52	2.57	15	2
1:B:237:GLU:O	1:B:314:ALA:CB	0.52	2.57	5	1
1:B:288:PHE:HZ	1:B:293:THR:HG1	0.52	1.45	7	1
1:A:37:GLU:OE2	1:A:113:ARG:CD	0.52	2.58	14	1
1:A:102:ARG:O	1:A:110:VAL:HG23	0.52	2.04	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:VAL:CG1	1:A:109:VAL:HG22	0.52	2.35	3	1
1:A:4:PRO:O	1:A:8:THR:CB	0.52	2.57	3	3
1:B:217:ALA:HB3	1:B:226:ILE:HG12	0.52	1.81	3	6
1:A:33:ASP:C	1:A:51:ILE:HD11	0.52	2.25	5	1
1:A:98:ILE:HG22	1:A:99:ASP:N	0.52	2.20	12	4
1:B:284:VAL:HG12	1:B:286:PHE:CD1	0.52	2.38	6	1
1:A:96:ALA:O	1:A:120:ASN:ND2	0.52	2.42	14	3
1:A:39:PRO:O	1:A:41:GLY:N	0.52	2.42	8	1
1:A:74:VAL:HG12	1:B:240:VAL:HG21	0.52	1.82	8	1
1:B:203:THR:O	1:B:203:THR:CG2	0.52	2.57	15	2
1:A:102:ARG:CZ	1:B:313:ARG:CD	0.52	2.88	15	1
1:A:15:VAL:HA	1:A:18:LEU:CD1	0.52	2.34	10	15
1:A:100:HIS:CD2	1:A:101:PHE:N	0.52	2.78	9	1
1:A:61:LEU:HD12	1:A:63:LEU:HD21	0.52	1.81	9	1
1:A:95:VAL:HG12	1:A:96:ALA:N	0.52	2.20	14	2
1:B:280:PHE:O	1:B:298:ILE:CG2	0.52	2.57	5	5
1:B:288:PHE:C	1:B:289:GLN:CG	0.52	2.78	5	3
1:A:99:ASP:OD1	1:A:100:HIS:N	0.52	2.43	12	7
1:A:39:PRO:O	1:A:40:VAL:HG13	0.52	2.04	1	1
1:B:227:VAL:HG11	1:B:248:THR:CG2	0.52	2.34	2	1
1:B:302:ARG:O	1:B:310:VAL:HG23	0.52	2.03	11	2
1:A:80:PHE:CD1	1:A:80:PHE:N	0.52	2.77	7	1
1:B:286:PHE:CE1	1:B:293:THR:O	0.52	2.62	9	1
1:A:46:SER:O	1:A:50:ALA:CB	0.52	2.57	12	2
1:A:35:THR:N	1:A:110:VAL:O	0.52	2.42	1	1
1:B:270:GLU:O	1:B:272:ARG:CZ	0.52	2.57	9	1
1:A:88:PHE:CZ	2:A:126:NTH:O24	0.52	2.63	11	1
1:A:45:ARG:HD2	1:A:51:ILE:HD13	0.52	1.82	11	1
1:A:63:LEU:HB3	1:A:84:VAL:CG1	0.52	2.34	11	2
1:A:120:ASN:OD1	1:B:272:ARG:NH2	0.52	2.42	14	2
1:A:39:PRO:O	1:A:40:VAL:CG1	0.52	2.58	1	1
1:A:102:ARG:HB3	1:A:111:SER:CB	0.52	2.35	10	5
1:A:80:PHE:CE2	1:A:99:ASP:HB3	0.52	2.40	11	3
1:B:211:VAL:HG22	1:B:280:PHE:CD1	0.52	2.39	7	2
1:B:274:VAL:O	1:B:275:ALA:C	0.52	2.48	2	11
1:A:100:HIS:NE2	1:B:315:LEU:CD1	0.52	2.72	5	1
1:B:261:LEU:HD13	2:B:326:NTH:C20	0.52	2.34	7	1
1:A:77:GLU:CD	1:A:100:HIS:CE1	0.52	2.83	12	1
1:A:40:VAL:O	1:A:42:SER:N	0.52	2.43	2	1
1:A:3:THR:CG2	1:A:3:THR:O	0.52	2.58	15	6
1:A:17:ALA:CB	1:A:22:ASP:OD1	0.52	2.57	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:37:GLU:OE1	1:A:113:ARG:CG	0.52	2.58	1	1
1:B:210:VAL:HG12	1:B:301:PHE:CE2	0.52	2.40	4	3
1:A:87:GLU:CG	1:A:88:PHE:N	0.52	2.73	8	2
1:A:77:GLU:OE1	1:B:313:ARG:NE	0.52	2.43	5	1
1:B:289:GLN:CG	1:B:289:GLN:O	0.52	2.56	6	1
1:B:261:LEU:HB3	1:B:263:LEU:HD21	0.52	1.81	15	1
1:B:223:LEU:O	1:B:226:ILE:N	0.51	2.43	11	8
1:B:231:ALA:CB	1:B:309:VAL:O	0.51	2.57	14	2
1:A:31:ALA:CB	1:A:109:VAL:O	0.51	2.56	10	3
1:A:45:ARG:HG3	1:A:54:PHE:CG	0.51	2.40	6	1
1:A:121:ILE:HG22	1:A:122:HIS:H	0.51	1.66	6	13
1:A:80:PHE:CE1	1:A:99:ASP:HB3	0.51	2.40	10	11
1:A:94:VAL:HG12	1:A:122:HIS:HB3	0.51	1.81	14	3
1:A:40:VAL:HG12	1:A:114:ALA:O	0.51	2.06	8	2
1:A:58:SER:OG	2:A:126:NTH:H10	0.51	2.05	8	3
1:B:297:PRO:HB3	1:B:316:PHE:CD2	0.51	2.40	9	1
1:B:207:MET:CB	1:B:273:ALA:HB1	0.51	2.36	8	2
1:A:10:VAL:HG13	1:A:101:PHE:CZ	0.51	2.41	2	4
1:B:226:ILE:CG2	1:B:230:PHE:CE2	0.51	2.93	2	1
1:A:99:ASP:OD2	1:A:112:MET:CE	0.51	2.58	3	3
1:A:19:ASN:ND2	1:A:65:VAL:O	0.51	2.43	10	3
1:B:294:VAL:CG1	1:B:322:HIS:HB3	0.51	2.35	10	2
1:B:263:LEU:HB3	1:B:284:VAL:HG12	0.51	1.81	11	1
1:A:78:ALA:O	1:A:101:PHE:N	0.51	2.43	2	14
1:B:210:VAL:HG21	1:B:303:PHE:HE1	0.51	1.65	2	1
1:A:72:ARG:CD	1:B:315:LEU:CD2	0.51	2.88	7	1
1:B:316:PHE:CZ	2:B:326:NTH:H72	0.51	2.40	14	2
1:A:37:GLU:OE2	1:A:113:ARG:NH1	0.51	2.44	13	1
1:B:223:LEU:CD2	1:B:252:ARG:HG2	0.51	2.36	9	8
1:B:223:LEU:CD2	1:B:252:ARG:HG3	0.51	2.34	10	5
1:A:10:VAL:HG12	1:A:101:PHE:CE2	0.51	2.41	5	2
1:A:75:ALA:CB	1:B:241:GLY:HA3	0.51	2.36	7	1
1:B:210:VAL:HG13	1:B:309:VAL:CG2	0.51	2.36	7	1
1:A:120:ASN:OD1	1:A:121:ILE:HD13	0.51	2.05	11	1
1:B:280:PHE:CE2	1:B:282:PHE:CE1	0.51	2.99	7	3
1:B:240:VAL:HG12	1:B:314:ALA:O	0.51	2.06	3	1
1:A:61:LEU:CB	1:A:63:LEU:HD11	0.51	2.33	9	1
1:B:261:LEU:HD12	1:B:263:LEU:HD11	0.51	1.82	14	1
1:B:294:VAL:HG22	1:B:295:VAL:N	0.51	2.21	1	6
1:A:117:GLY:O	1:A:120:ASN:OD1	0.51	2.28	11	3
1:B:309:VAL:HG12	1:B:310:VAL:N	0.51	2.19	13	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:40:VAL:HG22	1:A:116:PHE:CZ	0.51	2.40	3	1
1:A:86:PHE:CE1	1:A:93:THR:HB	0.51	2.40	14	4
1:B:300:HIS:CD2	1:B:301:PHE:N	0.51	2.79	7	1
1:A:23:LEU:CD2	1:A:52:ARG:HG2	0.51	2.35	15	3
1:A:45:ARG:NH1	1:A:51:ILE:O	0.51	2.43	11	1
1:A:79:ALA:CB	1:B:315:LEU:HD13	0.51	2.34	1	3
1:B:280:PHE:CE1	1:B:301:PHE:CE2	0.51	2.98	6	3
1:B:211:VAL:CG2	1:B:301:PHE:CD2	0.51	2.94	10	4
1:B:287:GLU:OE1	1:B:288:PHE:N	0.51	2.43	7	1
1:B:297:PRO:HB3	1:B:316:PHE:CE1	0.51	2.40	7	1
1:A:100:HIS:NE2	1:A:101:PHE:O	0.51	2.44	9	1
1:B:280:PHE:CE1	1:B:299:ASP:HB3	0.51	2.41	4	11
1:A:61:LEU:CG	1:A:63:LEU:HD21	0.51	2.36	3	1
1:B:217:ALA:CB	1:B:226:ILE:HG12	0.51	2.36	7	2
1:B:300:HIS:CG	1:B:301:PHE:N	0.51	2.79	7	3
1:A:72:ARG:HD3	1:B:315:LEU:CD2	0.51	2.35	7	1
1:A:104:ASN:OD1	1:A:107:GLY:N	0.51	2.43	14	1
1:A:40:VAL:O	1:B:275:ALA:CB	0.51	2.58	15	1
1:A:38:ASP:O	1:A:43:GLU:O	0.51	2.29	7	5
1:A:113:ARG:CG	1:A:114:ALA:N	0.51	2.73	7	1
1:B:245:ARG:HD3	1:B:254:PHE:CD1	0.51	2.41	9	1
1:B:287:GLU:CG	1:B:291:ARG:O	0.51	2.59	9	1
1:B:245:ARG:HB2	1:B:254:PHE:CD1	0.51	2.41	14	1
1:B:235:THR:OG1	1:B:311:SER:CB	0.50	2.59	2	1
1:A:10:VAL:HB	1:A:103:PHE:CZ	0.50	2.40	15	3
1:B:286:PHE:CE1	1:B:293:THR:HB	0.50	2.41	4	6
1:B:263:LEU:CD2	1:B:284:VAL:CG1	0.50	2.87	8	2
1:A:14:TYR:CE2	1:A:80:PHE:CZ	0.50	3.00	10	2
1:B:261:LEU:HB3	1:B:263:LEU:HD11	0.50	1.83	14	1
1:B:215:VAL:HA	1:B:218:LEU:CD1	0.50	2.35	11	15
1:B:280:PHE:CE2	1:B:299:ASP:HB3	0.50	2.41	2	4
1:B:276:ASN:ND2	1:B:304:ASN:O	0.50	2.43	6	1
1:A:73:ALA:C	1:A:74:VAL:HG22	0.50	2.27	10	2
1:A:119:LYS:CE	1:B:270:GLU:OE2	0.50	2.59	9	1
1:A:35:THR:O	1:A:36:VAL:CG2	0.50	2.59	15	1
1:A:63:LEU:HB2	1:A:84:VAL:CG1	0.50	2.35	6	2
1:A:45:ARG:HG3	1:A:54:PHE:CD1	0.50	2.41	7	2
1:A:56:ALA:O	1:A:59:LEU:N	0.50	2.44	7	1
1:A:116:PHE:CG	1:A:117:GLY:N	0.50	2.75	9	2
1:B:288:PHE:CE2	1:B:291:ARG:CB	0.50	2.94	9	1
1:B:315:LEU:O	1:B:316:PHE:CD2	0.50	2.65	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:268:THR:OG1	1:B:269:GLN:N	0.50	2.43	14	1
1:A:81:ALA:HB2	1:A:98:ILE:CG1	0.50	2.36	2	2
1:A:14:TYR:CD1	1:A:15:VAL:HG23	0.50	2.42	5	7
1:B:210:VAL:HB	1:B:303:PHE:CE2	0.50	2.41	6	4
1:B:277:GLU:OE2	1:B:302:ARG:NE	0.50	2.44	8	1
1:B:304:ASN:N	1:B:310:VAL:CG2	0.50	2.73	13	1
1:A:37:GLU:OE1	1:A:37:GLU:N	0.50	2.45	15	1
1:A:45:ARG:HG3	1:A:54:PHE:CD2	0.50	2.41	1	1
1:A:115:LEU:O	1:A:116:PHE:HB3	0.50	2.07	7	14
1:A:74:VAL:O	1:A:75:ALA:C	0.50	2.50	15	11
1:B:317:GLY:C	1:B:321:ILE:CD1	0.50	2.79	3	1
1:A:10:VAL:HB	1:A:103:PHE:CE2	0.50	2.42	15	4
1:A:45:ARG:CB	1:A:50:ALA:HB1	0.50	2.37	4	2
1:A:94:VAL:CG1	1:A:122:HIS:CD2	0.50	2.95	7	1
1:B:238:ASP:OD2	1:B:314:ALA:HB3	0.50	2.06	11	1
1:B:263:LEU:HB3	1:B:284:VAL:CG1	0.50	2.36	10	5
1:A:93:THR:HG22	1:A:94:VAL:N	0.50	2.22	4	1
1:B:303:PHE:N	1:B:303:PHE:CD1	0.50	2.80	11	5
1:B:204:PRO:O	1:B:208:THR:CB	0.50	2.59	15	2
1:B:285:SER:CB	1:B:294:VAL:HG23	0.50	2.37	13	2
1:B:284:VAL:O	1:B:295:VAL:N	0.50	2.44	3	4
1:A:23:LEU:CD2	1:A:52:ARG:HG3	0.50	2.36	7	5
1:B:201:MET:O	1:B:201:MET:CG	0.50	2.60	4	1
1:A:36:VAL:CG2	1:A:51:ILE:CD1	0.50	2.90	8	2
1:B:316:PHE:CD2	1:B:321:ILE:HD11	0.50	2.42	7	1
1:B:219:ASN:OD1	1:B:265:VAL:N	0.50	2.43	10	1
1:B:281:ALA:O	1:B:282:PHE:CB	0.50	2.59	10	2
1:B:258:SER:HB2	2:B:326:NTH:H10	0.50	1.82	13	1
1:A:36:VAL:HG13	1:A:37:GLU:N	0.50	2.21	14	1
1:B:261:LEU:CD2	1:B:263:LEU:HD23	0.50	2.36	15	1
1:A:72:ARG:CG	1:A:79:ALA:O	0.50	2.60	2	1
1:A:103:PHE:CD1	1:A:103:PHE:N	0.50	2.80	8	4
1:A:72:ARG:NH1	1:B:316:PHE:O	0.50	2.44	5	1
1:A:88:PHE:C	1:A:89:GLN:CG	0.50	2.80	12	2
1:A:37:GLU:OE1	1:A:113:ARG:NE	0.50	2.43	15	2
1:B:214:TYR:CE2	1:B:255:PHE:CZ	0.50	2.99	7	15
1:B:237:GLU:OE1	1:B:313:ARG:CZ	0.50	2.59	2	1
1:B:258:SER:HG	2:B:326:NTH:H8	0.50	1.66	4	1
1:A:15:VAL:HG21	1:A:67:LEU:HG	0.50	1.84	5	1
1:B:213:ARG:HA	1:B:216:ALA:HB3	0.50	1.83	7	1
1:B:303:PHE:C	1:B:310:VAL:CG2	0.50	2.81	11	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:96:ALA:N	1:A:120:ASN:O	0.50	2.43	9	3
1:A:80:PHE:CZ	1:A:99:ASP:CB	0.50	2.95	11	1
1:A:8:THR:O	1:A:11:VAL:N	0.49	2.43	12	4
1:A:6:HIS:NE2	1:A:7:MET:HG3	0.49	2.22	11	1
1:A:11:VAL:HG11	1:A:71:VAL:HG13	0.49	1.85	2	1
1:A:70:GLU:O	1:A:72:ARG:NE	0.49	2.45	2	1
1:A:45:ARG:HD3	1:A:54:PHE:CD1	0.49	2.41	8	3
1:A:75:ALA:HB2	1:B:240:VAL:C	0.49	2.26	6	1
1:A:94:VAL:CG1	1:A:122:HIS:CG	0.49	2.95	14	3
1:A:38:ASP:O	1:A:43:GLU:HB2	0.49	2.07	1	3
1:B:227:VAL:O	1:B:230:PHE:O	0.49	2.31	5	4
1:A:35:THR:HG23	1:A:46:SER:HB3	0.49	1.82	3	2
1:A:36:VAL:O	1:A:44:PRO:HA	0.49	2.07	12	5
1:B:210:VAL:CG1	1:B:309:VAL:CG2	0.49	2.91	7	4
1:B:223:LEU:HD22	1:B:256:ALA:HB2	0.49	1.83	9	4
1:A:73:ALA:C	1:A:74:VAL:CG2	0.49	2.80	7	2
1:A:72:ARG:CD	1:B:315:LEU:HD21	0.49	2.38	7	1
1:B:286:PHE:CE2	1:B:288:PHE:CD1	0.49	3.01	13	1
1:A:45:ARG:O	1:A:51:ILE:HD13	0.49	2.07	9	1
1:B:208:THR:O	1:B:211:VAL:N	0.49	2.43	15	2
1:A:80:PHE:CD1	1:A:80:PHE:C	0.49	2.85	11	1
1:B:263:LEU:HB2	1:B:284:VAL:CG1	0.49	2.36	11	2
1:A:118:GLU:HA	1:A:121:ILE:CG1	0.49	2.36	3	13
1:A:115:LEU:CD1	1:B:300:HIS:CD2	0.49	2.94	4	1
1:B:227:VAL:HG21	1:B:252:ARG:CB	0.49	2.37	15	3
1:B:261:LEU:CD2	1:B:263:LEU:HD11	0.49	2.37	8	1
1:B:281:ALA:CA	1:B:298:ILE:HD12	0.49	2.35	11	1
1:B:234:ALA:O	1:B:251:ILE:CD1	0.49	2.58	10	3
1:A:33:ASP:N	1:A:33:ASP:OD1	0.49	2.43	2	1
1:B:281:ALA:C	1:B:282:PHE:CD2	0.49	2.85	9	4
1:B:210:VAL:HB	1:B:303:PHE:CZ	0.49	2.42	6	5
1:A:115:LEU:CG	1:B:279:ALA:CB	0.49	2.90	4	1
1:A:40:VAL:O	1:A:40:VAL:CG2	0.49	2.60	13	1
1:B:315:LEU:O	1:B:316:PHE:HB3	0.49	2.08	8	12
1:A:80:PHE:O	1:A:98:ILE:CG2	0.49	2.61	10	5
1:A:99:ASP:OD2	1:A:112:MET:HE3	0.49	2.08	4	2
1:B:211:VAL:CG2	1:B:271:VAL:HG11	0.49	2.30	12	2
1:A:36:VAL:O	1:A:44:PRO:HB3	0.49	2.08	14	9
1:A:29:LEU:O	1:A:109:VAL:N	0.49	2.43	3	1
1:A:104:ASN:CB	1:A:110:VAL:HG21	0.49	2.33	11	3
1:B:262:PRO:O	1:B:286:PHE:CB	0.49	2.61	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:58:SER:CB	2:A:126:NTH:H11	0.49	2.37	7	1
1:A:77:GLU:OE2	1:A:100:HIS:CE1	0.49	2.66	9	1
1:A:23:LEU:HD23	1:A:59:LEU:HD22	0.49	1.81	10	1
1:B:206:HIS:NE2	1:B:207:MET:CE	0.49	2.76	13	1
1:B:293:THR:CG2	1:B:322:HIS:O	0.49	2.61	15	1
1:B:236:VAL:O	1:B:244:PRO:HB3	0.49	2.08	11	13
1:A:17:ALA:CB	1:A:26:ILE:HG12	0.49	2.38	2	1
1:B:272:ARG:O	1:B:279:ALA:N	0.49	2.44	4	4
1:B:317:GLY:O	1:B:320:ASN:OD1	0.49	2.31	4	1
1:B:207:MET:HB3	1:B:273:ALA:HB1	0.49	1.85	8	2
1:A:98:ILE:CD1	1:B:272:ARG:HD2	0.49	2.38	11	1
1:B:235:THR:N	1:B:310:VAL:O	0.49	2.45	12	3
1:A:94:VAL:HG22	1:A:95:VAL:H	0.49	1.68	14	1
1:A:75:ALA:CB	1:B:241:GLY:CA	0.49	2.90	7	1
1:A:79:ALA:HB3	1:B:315:LEU:HD11	0.49	1.83	7	1
1:B:268:THR:O	1:B:269:GLN:HG2	0.49	2.08	8	1
1:A:24:ASP:N	1:A:24:ASP:OD1	0.49	2.43	10	1
1:A:10:VAL:O	1:A:14:TYR:HB3	0.48	2.08	1	3
1:B:237:GLU:OE2	1:B:313:ARG:NE	0.48	2.43	1	1
1:B:295:VAL:CG1	1:B:297:PRO:HG3	0.48	2.38	7	8
1:B:252:ARG:O	1:B:256:ALA:N	0.48	2.44	3	12
1:A:10:VAL:CB	1:A:103:PHE:CE2	0.48	2.96	3	2
1:B:212:GLN:O	1:B:215:VAL:N	0.48	2.45	7	8
1:B:237:GLU:O	1:B:314:ALA:HB2	0.48	2.08	5	1
1:B:231:ALA:N	1:B:309:VAL:O	0.48	2.42	10	2
1:B:273:ALA:C	1:B:274:VAL:CG2	0.48	2.81	14	1
1:A:67:LEU:HD22	1:A:82:PHE:HB3	0.48	1.85	1	1
1:B:300:HIS:N	1:B:313:ARG:O	0.48	2.46	13	7
1:A:10:VAL:HG13	1:A:109:VAL:CG2	0.48	2.39	3	2
1:B:263:LEU:HD23	1:B:286:PHE:CB	0.48	2.37	4	1
1:A:68:THR:O	1:A:69:GLN:HG2	0.48	2.09	5	2
1:B:240:VAL:HG22	1:B:316:PHE:CE1	0.48	2.43	5	1
1:B:277:GLU:CG	1:B:301:PHE:O	0.48	2.61	10	1
1:A:47:GLY:O	1:A:51:ILE:CD1	0.48	2.61	1	4
1:B:236:VAL:O	1:B:244:PRO:CA	0.48	2.61	6	8
1:B:245:ARG:HG3	1:B:254:PHE:CD2	0.48	2.43	2	1
1:A:100:HIS:N	1:A:113:ARG:O	0.48	2.45	3	7
1:A:17:ALA:CB	1:A:26:ILE:HG13	0.48	2.37	11	5
1:A:102:ARG:CB	1:A:111:SER:HB3	0.48	2.39	10	2
1:B:245:ARG:NH1	1:B:246:SER:HA	0.48	2.23	7	1
1:A:119:LYS:NZ	1:B:270:GLU:CD	0.48	2.67	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:77:GLU:CD	1:A:100:HIS:NE2	0.48	2.67	12	1
1:A:115:LEU:CD1	1:B:300:HIS:NE2	0.48	2.76	3	1
1:A:23:LEU:CD1	1:A:26:ILE:HD12	0.48	2.32	5	3
1:A:100:HIS:CD2	1:A:113:ARG:HG3	0.48	2.44	9	1
1:B:318:GLU:HA	1:B:321:ILE:HD12	0.48	1.84	11	1
1:A:37:GLU:OE2	1:A:113:ARG:NH2	0.48	2.46	15	1
1:B:237:GLU:HB2	1:B:313:ARG:CG	0.48	2.39	1	2
1:B:277:GLU:CG	1:B:302:ARG:HG3	0.48	2.37	4	3
1:A:12:GLN:O	1:A:15:VAL:N	0.48	2.47	2	11
1:A:52:ARG:O	1:A:56:ALA:N	0.48	2.46	7	9
1:A:10:VAL:O	1:A:14:TYR:HB2	0.48	2.09	3	13
1:B:214:TYR:CD1	1:B:215:VAL:HG23	0.48	2.44	15	7
1:B:294:VAL:O	1:B:322:HIS:HA	0.48	2.07	13	2
1:A:98:ILE:CD1	1:B:272:ARG:NH1	0.48	2.76	12	1
1:A:47:GLY:O	1:A:51:ILE:HD12	0.48	2.08	1	4
1:B:300:HIS:O	1:B:312:MET:HG2	0.48	2.07	7	12
1:B:272:ARG:N	1:B:279:ALA:O	0.48	2.47	4	10
1:B:286:PHE:CZ	1:B:288:PHE:CE2	0.48	3.00	5	2
1:B:210:VAL:HG22	1:B:309:VAL:HG23	0.48	1.83	10	3
1:A:38:ASP:HB3	1:A:54:PHE:CE2	0.48	2.44	7	1
1:A:74:VAL:HG11	1:B:240:VAL:HG11	0.48	1.86	8	1
1:A:77:GLU:HG3	1:A:100:HIS:NE2	0.48	2.24	12	1
1:A:77:GLU:CG	1:A:100:HIS:NE2	0.48	2.76	12	1
1:B:258:SER:HA	2:B:326:NTH:H111	0.48	1.86	13	1
1:B:263:LEU:CD2	1:B:286:PHE:CD1	0.48	2.90	14	1
1:A:69:GLN:CG	1:A:70:GLU:N	0.48	2.73	15	4
1:A:72:ARG:CZ	1:A:72:ARG:HB3	0.48	2.38	5	1
1:B:286:PHE:CE2	1:B:288:PHE:CE2	0.48	3.02	5	1
1:B:239:PRO:O	1:B:241:GLY:N	0.48	2.46	6	1
1:A:72:ARG:HG3	1:A:79:ALA:CB	0.48	2.38	9	1
1:A:81:ALA:CB	1:A:98:ILE:HG13	0.48	2.39	2	1
1:A:115:LEU:HG	1:B:279:ALA:CB	0.48	2.39	4	1
1:B:302:ARG:HB3	1:B:311:SER:CB	0.48	2.39	12	2
1:A:68:THR:O	1:A:69:GLN:O	0.48	2.32	8	5
1:A:63:LEU:HD21	2:A:126:NTH:O20	0.48	2.08	7	1
1:B:245:ARG:HD3	1:B:250:ALA:HB1	0.48	1.84	11	1
1:B:277:GLU:CG	1:B:302:ARG:CG	0.48	2.91	4	3
1:A:100:HIS:O	1:A:112:MET:HG2	0.48	2.09	9	13
1:B:300:HIS:HB2	1:B:313:ARG:CB	0.48	2.39	12	2
1:B:210:VAL:O	1:B:214:TYR:HB2	0.48	2.09	3	11
1:A:86:PHE:CE2	1:A:93:THR:HB	0.48	2.43	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:315:LEU:C	1:B:316:PHE:CD1	0.48	2.87	9	2
2:B:326:NTH:H222	2:B:326:NTH:H161	0.48	1.85	13	1
1:A:67:LEU:N	1:A:67:LEU:HD23	0.48	2.23	1	1
1:A:66:GLU:O	1:A:67:LEU:O	0.48	2.32	9	13
1:A:33:ASP:HA	1:A:47:GLY:CA	0.48	2.39	5	6
1:A:85:SER:HB3	1:A:94:VAL:CG2	0.48	2.39	3	3
1:A:117:GLY:O	1:A:120:ASN:N	0.48	2.47	3	3
1:A:61:LEU:HD23	1:A:63:LEU:CD1	0.48	2.39	3	1
1:B:246:SER:C	1:B:250:ALA:HB3	0.48	2.30	3	1
1:B:299:ASP:OD2	1:B:312:MET:CE	0.48	2.62	3	2
1:A:96:ALA:O	1:A:120:ASN:OD1	0.48	2.32	4	4
1:A:63:LEU:HD23	1:A:86:PHE:CD2	0.48	2.44	5	1
1:B:232:ASP:O	1:B:248:THR:OG1	0.48	2.32	9	7
1:A:102:ARG:CD	1:A:111:SER:HB2	0.48	2.38	6	3
1:B:238:ASP:O	1:B:243:GLU:O	0.48	2.32	6	2
1:B:257:ASN:ND2	1:B:260:LYS:HE2	0.48	2.23	6	1
1:B:245:ARG:CD	1:B:250:ALA:HB1	0.48	2.39	11	2
1:B:238:ASP:OD1	1:B:239:PRO:HA	0.48	2.08	9	5
1:A:86:PHE:CE2	1:A:88:PHE:CD1	0.48	3.02	12	1
1:A:27:VAL:O	1:A:30:PHE:O	0.47	2.32	10	6
1:B:303:PHE:CE1	1:B:309:VAL:HG22	0.47	2.44	4	1
1:A:7:MET:HA	1:A:103:PHE:CE2	0.47	2.43	15	3
1:A:94:VAL:CG1	1:A:122:HIS:HB3	0.47	2.39	15	3
1:B:288:PHE:O	1:B:291:ARG:N	0.47	2.40	5	2
1:A:26:ILE:O	1:A:29:LEU:N	0.47	2.47	7	1
1:A:61:LEU:CD2	1:A:63:LEU:HG	0.47	2.39	7	1
1:A:104:ASN:OD1	1:A:110:VAL:HG22	0.47	2.09	11	1
1:B:240:VAL:HG22	1:B:316:PHE:CZ	0.47	2.43	15	1
1:A:100:HIS:HB3	1:A:113:ARG:CB	0.47	2.39	1	1
1:B:217:ALA:O	1:B:221:GLY:N	0.47	2.47	7	14
1:A:115:LEU:CD2	1:B:279:ALA:HB3	0.47	2.39	10	3
1:A:42:SER:O	1:A:43:GLU:CB	0.47	2.62	2	1
1:A:39:PRO:HD2	1:A:42:SER:CB	0.47	2.39	14	7
1:A:72:ARG:HD2	1:A:73:ALA:N	0.47	2.24	9	1
1:B:210:VAL:HG21	1:B:309:VAL:HG23	0.47	1.84	10	1
1:B:245:ARG:HG3	1:B:254:PHE:CD1	0.47	2.44	13	2
1:B:304:ASN:CG	1:B:310:VAL:HG21	0.47	2.30	12	1
1:A:99:ASP:OD1	1:A:113:ARG:O	0.47	2.33	8	10
1:A:17:ALA:HB3	1:A:26:ILE:HG12	0.47	1.86	13	3
1:A:17:ALA:O	1:A:21:GLY:N	0.47	2.48	7	12
1:B:245:ARG:CD	1:B:250:ALA:C	0.47	2.83	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:93:THR:CG2	1:A:122:HIS:O	0.47	2.60	8	1
1:A:104:ASN:N	1:A:110:VAL:CG2	0.47	2.77	9	1
1:A:6:HIS:CD2	1:A:7:MET:N	0.47	2.83	11	1
1:A:36:VAL:HG11	1:A:54:PHE:CD2	0.47	2.44	14	1
1:A:30:PHE:CE1	1:A:112:MET:CE	0.47	2.98	1	2
1:A:6:HIS:NE2	1:A:106:ALA:O	0.47	2.47	1	1
1:B:266:GLU:O	1:B:267:LEU:O	0.47	2.33	4	15
1:B:299:ASP:OD1	1:B:313:ARG:O	0.47	2.33	10	11
1:B:233:ASP:HA	1:B:247:GLY:CA	0.47	2.39	7	11
1:A:38:ASP:OD1	1:A:114:ALA:CB	0.47	2.58	3	1
1:B:277:GLU:O	1:B:278:ALA:CB	0.47	2.62	10	3
1:A:77:GLU:HG3	1:A:101:PHE:O	0.47	2.10	12	1
2:B:326:NTH:H222	2:B:326:NTH:C16	0.47	2.39	13	1
1:A:45:ARG:HB2	1:A:54:PHE:CD1	0.47	2.44	14	1
1:B:261:LEU:HD12	1:B:263:LEU:CD2	0.47	2.40	14	1
1:A:102:ARG:NH1	1:A:113:ARG:HD2	0.47	2.25	15	1
1:A:38:ASP:HA	1:A:39:PRO:O	0.47	2.09	2	2
1:A:116:PHE:CZ	2:A:126:NTH:C6	0.47	2.98	7	2
1:A:85:SER:CA	1:A:94:VAL:HG23	0.47	2.38	3	4
1:A:98:ILE:O	1:A:115:LEU:O	0.47	2.33	3	1
1:A:27:VAL:HG21	1:A:52:ARG:CG	0.47	2.39	11	3
1:B:296:ALA:O	1:B:320:ASN:OD1	0.47	2.32	8	2
2:B:326:NTH:H161	2:B:326:NTH:H222	0.47	1.87	8	1
1:A:74:VAL:HG22	1:B:316:PHE:O	0.47	2.09	12	2
1:B:315:LEU:O	1:B:316:PHE:O	0.47	2.33	9	1
1:A:30:PHE:CE2	1:A:112:MET:HE3	0.47	2.44	10	1
1:B:258:SER:CB	2:B:326:NTH:H10	0.47	2.38	13	1
1:B:285:SER:CA	1:B:294:VAL:HG23	0.47	2.40	15	2
1:A:77:GLU:CG	1:A:102:ARG:CG	0.47	2.92	1	2
1:B:210:VAL:O	1:B:214:TYR:HB3	0.47	2.09	1	6
1:B:230:PHE:O	1:B:231:ALA:O	0.47	2.33	14	13
1:A:113:ARG:NH1	1:B:277:GLU:OE2	0.47	2.48	7	2
1:A:45:ARG:HD3	1:A:54:PHE:CB	0.47	2.40	11	1
1:B:274:VAL:O	1:B:277:GLU:O	0.47	2.32	14	1
1:A:30:PHE:HD2	1:A:34:ALA:HB3	0.47	1.70	15	1
1:A:30:PHE:O	1:A:31:ALA:O	0.47	2.33	14	12
1:A:21:GLY:O	1:A:59:LEU:CD2	0.47	2.62	6	3
1:B:304:ASN:ND2	1:B:304:ASN:N	0.47	2.63	6	2
1:A:94:VAL:O	1:A:122:HIS:HB2	0.47	2.10	4	11
1:B:269:GLN:HG3	1:B:270:GLU:N	0.47	2.25	10	7
1:A:97:PRO:CB	1:A:116:PHE:HB3	0.47	2.40	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:296:ALA:CB	1:B:320:ASN:O	0.47	2.63	12	2
1:A:72:ARG:O	1:A:79:ALA:O	0.47	2.33	4	1
1:A:14:TYR:CE1	1:A:80:PHE:CZ	0.47	3.02	4	2
1:B:226:ILE:HD13	1:B:255:PHE:CE2	0.47	2.44	4	1
1:B:292:LYS:CD	1:B:292:LYS:O	0.47	2.63	12	2
1:A:71:VAL:HG12	1:A:72:ARG:N	0.47	2.24	5	1
1:A:39:PRO:O	1:A:40:VAL:HG22	0.47	2.10	6	1
1:A:113:ARG:HG2	1:A:114:ALA:N	0.47	2.25	7	1
1:A:92:LYS:O	1:A:124:GLY:O	0.47	2.33	8	1
1:B:238:ASP:OD1	1:B:239:PRO:O	0.47	2.32	9	1
1:A:55:PHE:CE1	2:A:126:NTH:C2	0.47	2.98	10	1
1:A:64:ALA:CB	1:A:85:SER:OG	0.47	2.58	10	1
1:A:115:LEU:HD13	1:B:300:HIS:CD2	0.47	2.45	10	1
1:A:86:PHE:CZ	2:A:126:NTH:C22	0.47	2.98	11	1
1:B:286:PHE:CD2	1:B:287:GLU:N	0.47	2.83	11	1
1:A:45:ARG:NE	1:A:54:PHE:HB3	0.47	2.25	11	1
1:A:45:ARG:HB3	1:A:54:PHE:CD2	0.47	2.44	11	1
1:B:230:PHE:HD2	1:B:234:ALA:HB3	0.47	1.70	12	2
1:A:88:PHE:O	1:A:89:GLN:O	0.47	2.33	15	1
1:B:245:ARG:HB2	1:B:254:PHE:CG	0.47	2.45	15	1
1:B:247:GLY:C	1:B:251:ILE:HD12	0.47	2.30	2	2
1:A:41:GLY:O	1:A:42:SER:O	0.47	2.33	6	2
1:A:100:HIS:O	1:A:112:MET:HG3	0.47	2.09	14	2
1:B:295:VAL:CG1	1:B:320:ASN:ND2	0.47	2.78	4	1
1:B:234:ALA:H	1:B:251:ILE:HD11	0.47	1.64	7	1
1:A:35:THR:CG2	1:A:46:SER:HB2	0.47	2.40	12	4
1:B:286:PHE:CZ	1:B:293:THR:CG2	0.47	2.98	14	1
1:A:43:GLU:N	1:A:44:PRO:CD	0.47	2.78	3	5
1:B:247:GLY:O	1:B:251:ILE:HG13	0.47	2.10	9	8
1:A:78:ALA:N	1:A:101:PHE:O	0.47	2.48	4	1
1:B:223:LEU:HG	1:B:256:ALA:HB2	0.47	1.87	8	2
1:B:321:ILE:CG2	2:B:326:NTH:H222	0.47	2.40	12	1
1:A:72:ARG:N	1:A:79:ALA:O	0.47	2.46	10	7
1:A:62:PRO:O	1:A:86:PHE:HB2	0.47	2.10	11	8
1:A:92:LYS:C	1:A:92:LYS:CD	0.47	2.82	2	1
1:A:26:ILE:HG21	1:A:55:PHE:CG	0.47	2.45	5	3
1:B:268:THR:O	1:B:269:GLN:O	0.47	2.33	7	4
1:A:100:HIS:NE2	1:B:315:LEU:HD13	0.47	2.25	5	1
1:B:243:GLU:N	1:B:244:PRO:HD3	0.47	2.24	6	2
1:B:294:VAL:CG1	1:B:295:VAL:N	0.46	2.78	6	3
1:B:281:ALA:C	1:B:282:PHE:CD1	0.46	2.89	7	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:304:ASN:CA	1:B:310:VAL:HG21	0.46	2.40	7	2
1:B:309:VAL:CG1	1:B:312:MET:HE2	0.46	2.37	9	1
1:B:309:VAL:CG1	1:B:312:MET:CE	0.46	2.93	13	2
1:A:35:THR:OG1	1:A:111:SER:OG	0.46	2.33	12	1
1:A:94:VAL:CG2	1:A:95:VAL:N	0.46	2.77	15	1
1:A:33:ASP:O	1:A:34:ALA:O	0.46	2.33	10	3
1:B:302:ARG:CB	1:B:311:SER:CB	0.46	2.93	3	1
1:A:32:ASP:O	1:A:48:THR:OG1	0.46	2.33	6	6
1:A:23:LEU:HD11	1:A:55:PHE:O	0.46	2.10	8	1
1:A:6:HIS:CG	1:A:7:MET:N	0.46	2.83	11	1
1:A:15:VAL:HG22	1:A:65:VAL:HG11	0.46	1.87	12	1
1:B:293:THR:CG2	1:B:322:HIS:ND1	0.46	2.78	13	1
1:A:95:VAL:CG1	1:A:96:ALA:N	0.46	2.78	14	2
1:A:104:ASN:HB3	1:A:110:VAL:CG2	0.46	2.40	4	4
1:B:274:VAL:O	1:B:275:ALA:O	0.46	2.33	12	2
1:A:110:VAL:HG12	1:A:110:VAL:O	0.46	2.10	6	1
1:A:104:ASN:C	1:A:104:ASN:ND2	0.46	2.69	7	2
1:A:25:GLY:O	1:A:28:ALA:HB3	0.46	2.10	7	1
1:A:38:ASP:OD1	2:A:126:NTH:H62	0.46	2.11	8	1
1:B:264:ALA:N	1:B:285:SER:O	0.46	2.48	12	1
1:B:307:GLY:C	1:B:308:LYS:CG	0.46	2.83	1	2
1:B:272:ARG:O	1:B:279:ALA:O	0.46	2.33	14	2
1:A:72:ARG:HD3	1:B:298:ILE:CD1	0.46	2.41	12	2
1:B:318:GLU:HA	1:B:321:ILE:CG1	0.46	2.41	6	10
1:A:35:THR:O	1:A:112:MET:N	0.46	2.48	12	6
1:A:37:GLU:HB3	1:A:113:ARG:NH1	0.46	2.25	3	1
1:A:23:LEU:O	1:A:24:ASP:C	0.46	2.54	3	7
1:B:302:ARG:CB	1:B:311:SER:HB2	0.46	2.41	3	4
1:B:210:VAL:O	1:B:229:LEU:CD2	0.46	2.63	15	2
1:A:100:HIS:HB2	1:A:113:ARG:O	0.46	2.11	10	2
1:A:61:LEU:HD13	2:A:126:NTH:C20	0.46	2.40	7	1
1:B:287:GLU:OE2	1:B:290:GLY:N	0.46	2.49	7	1
1:A:104:ASN:N	1:A:110:VAL:HG21	0.46	2.25	9	1
1:A:36:VAL:O	1:A:44:PRO:HB2	0.46	2.11	11	1
1:B:206:HIS:NE2	1:B:207:MET:HE3	0.46	2.25	13	1
1:A:19:ASN:OD1	1:A:65:VAL:O	0.46	2.33	15	1
1:A:84:VAL:O	1:A:94:VAL:HA	0.46	2.11	1	7
1:B:236:VAL:O	1:B:244:PRO:HA	0.46	2.10	6	11
1:A:38:ASP:HA	1:A:39:PRO:C	0.46	2.30	9	7
1:A:14:TYR:CE2	1:A:55:PHE:CZ	0.46	3.04	15	10
1:A:84:VAL:O	1:A:95:VAL:N	0.46	2.49	3	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:285:SER:HA	1:B:294:VAL:CG2	0.46	2.40	6	2
1:B:297:PRO:HA	1:B:316:PHE:CB	0.46	2.40	9	1
1:A:80:PHE:CE2	1:A:82:PHE:CD2	0.46	3.03	10	1
1:A:85:SER:HA	1:A:94:VAL:CG2	0.46	2.41	1	7
1:A:95:VAL:CG1	1:A:97:PRO:HG3	0.46	2.41	12	8
1:B:237:GLU:OE1	1:B:313:ARG:NE	0.46	2.49	2	1
1:B:214:TYR:CE1	1:B:280:PHE:CZ	0.46	3.03	4	4
1:A:79:ALA:HB1	1:B:315:LEU:HD21	0.46	1.86	5	1
1:A:39:PRO:O	1:A:40:VAL:CG2	0.46	2.64	6	1
1:A:73:ALA:O	1:A:74:VAL:HG22	0.46	2.10	7	1
1:B:261:LEU:CG	1:B:263:LEU:HD21	0.46	2.39	8	1
1:B:287:GLU:HG3	1:B:291:ARG:O	0.46	2.11	9	2
1:A:72:ARG:NH2	1:B:315:LEU:HD12	0.46	2.26	9	1
1:A:103:PHE:N	1:A:103:PHE:CD1	0.46	2.83	15	2
1:B:235:THR:O	1:B:312:MET:N	0.46	2.49	4	3
1:B:223:LEU:O	1:B:224:ASP:C	0.46	2.54	12	8
1:A:116:PHE:CE1	2:A:126:NTH:C6	0.46	2.98	2	2
1:A:85:SER:HA	1:A:94:VAL:HG22	0.46	1.85	9	1
1:A:22:ASP:OD1	1:A:24:ASP:OD1	0.46	2.34	10	1
1:A:22:ASP:OD2	1:A:24:ASP:OD2	0.46	2.34	10	1
1:B:227:VAL:CG2	1:B:252:ARG:HB2	0.46	2.41	5	8
1:B:207:MET:SD	1:B:274:VAL:O	0.46	2.74	13	2
1:A:35:THR:CG2	1:A:46:SER:HB3	0.46	2.41	14	4
1:A:115:LEU:C	1:A:116:PHE:CD1	0.46	2.89	4	1
1:A:115:LEU:O	1:A:116:PHE:O	0.46	2.33	4	1
1:B:217:ALA:CB	1:B:226:ILE:HG13	0.46	2.41	4	4
1:B:230:PHE:CZ	1:B:312:MET:SD	0.46	3.09	13	2
1:A:18:LEU:HD21	1:A:55:PHE:CZ	0.46	2.46	10	1
2:A:126:NTH:C16	2:A:126:NTH:H222	0.46	2.40	14	1
1:A:40:VAL:CG2	1:A:40:VAL:O	0.46	2.60	15	1
1:B:233:ASP:OD1	1:B:233:ASP:N	0.46	2.48	15	1
1:A:34:ALA:HA	1:A:110:VAL:O	0.46	2.11	7	9
1:A:39:PRO:HG2	1:A:42:SER:CB	0.46	2.41	2	2
1:A:117:GLY:O	1:A:121:ILE:HG12	0.46	2.11	15	4
1:A:120:ASN:OD1	1:B:272:ARG:NE	0.46	2.43	4	1
1:A:14:TYR:CE2	1:A:112:MET:CE	0.46	2.99	15	2
1:A:3:THR:O	1:A:7:MET:SD	0.46	2.74	7	1
1:B:245:ARG:HG2	1:B:246:SER:N	0.46	2.26	7	1
1:B:293:THR:CG2	1:B:322:HIS:HB2	0.46	2.40	13	2
1:B:219:ASN:OD1	1:B:265:VAL:O	0.46	2.33	9	4
1:A:102:ARG:NH1	1:A:113:ARG:CD	0.46	2.79	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:VAL:CG2	1:A:52:ARG:HB2	0.46	2.42	1	9
1:B:234:ALA:HA	1:B:310:VAL:O	0.46	2.11	11	14
1:B:294:VAL:O	1:B:322:HIS:HB2	0.46	2.11	6	7
1:B:304:ASN:HB3	1:B:310:VAL:CG2	0.46	2.41	7	2
1:A:23:LEU:CD2	1:A:52:ARG:HA	0.46	2.41	9	2
1:B:214:TYR:CZ	1:B:218:LEU:HD11	0.46	2.46	4	2
1:A:72:ARG:CB	1:A:72:ARG:CZ	0.46	2.94	5	1
1:A:74:VAL:O	1:A:75:ALA:O	0.46	2.34	7	3
2:A:126:NTH:C16	2:A:126:NTH:H221	0.46	2.41	8	1
1:A:14:TYR:N	1:A:29:LEU:HD22	0.45	2.25	1	1
1:A:15:VAL:HG21	1:A:67:LEU:HD21	0.45	1.88	1	1
1:B:221:GLY:O	1:B:259:LEU:HD21	0.45	2.11	11	3
1:B:207:MET:SD	1:B:275:ALA:O	0.45	2.74	3	4
1:B:317:GLY:O	1:B:321:ILE:HG12	0.45	2.12	2	6
1:A:119:LYS:HE2	1:B:204:PRO:CG	0.45	2.42	4	1
1:A:71:VAL:CG1	1:A:72:ARG:N	0.45	2.78	5	2
1:A:39:PRO:O	1:A:42:SER:CB	0.45	2.64	6	1
1:B:301:PHE:CE1	1:B:309:VAL:CG2	0.45	2.99	7	1
1:A:39:PRO:CD	1:A:42:SER:CB	0.45	2.94	9	1
1:B:207:MET:HE1	1:B:306:ALA:HA	0.45	1.87	9	1
1:B:282:PHE:CE2	1:B:284:VAL:HG23	0.45	2.46	15	1
1:A:103:PHE:CE1	1:A:109:VAL:HG22	0.45	2.46	1	1
1:A:80:PHE:O	1:A:99:ASP:N	0.45	2.47	1	4
1:A:102:ARG:N	1:A:111:SER:O	0.45	2.50	14	2
1:B:237:GLU:OE1	1:B:313:ARG:NH1	0.45	2.48	7	1
1:B:240:VAL:HG21	1:B:317:GLY:HA2	0.45	1.89	7	1
1:A:104:ASN:ND2	1:A:104:ASN:N	0.45	2.65	10	1
1:A:67:LEU:O	1:A:68:THR:HG23	0.45	2.11	12	1
1:A:37:GLU:OE2	1:A:113:ARG:HD3	0.45	2.12	14	1
1:A:75:ALA:CB	1:B:240:VAL:O	0.45	2.64	15	1
1:A:49:ALA:O	1:A:53:GLU:HB2	0.45	2.11	1	6
1:A:33:ASP:CB	1:A:47:GLY:HA2	0.45	2.42	4	5
1:A:88:PHE:CE2	2:A:126:NTH:O23	0.45	2.69	3	1
1:B:272:ARG:CG	1:B:279:ALA:O	0.45	2.64	9	4
1:B:308:LYS:HD2	1:B:308:LYS:N	0.45	2.26	6	1
1:A:86:PHE:CZ	2:A:126:NTH:C23	0.45	3.00	7	1
1:A:17:ALA:HB1	1:A:26:ILE:HG13	0.45	1.89	9	4
1:B:315:LEU:C	1:B:316:PHE:CD2	0.45	2.90	13	1
1:B:214:TYR:CE2	1:B:312:MET:HE1	0.45	2.46	15	1
1:B:239:PRO:HD2	1:B:242:SER:CB	0.45	2.40	2	6
1:B:276:ASN:OD1	1:B:276:ASN:O	0.45	2.34	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:116:PHE:C	1:B:274:VAL:HG11	0.45	2.31	7	1
1:B:211:VAL:HG13	1:B:280:PHE:CG	0.45	2.46	7	1
1:A:87:GLU:HG2	1:A:88:PHE:N	0.45	2.26	15	3
1:B:222:ASP:O	1:B:222:ASP:OD2	0.45	2.33	10	1
2:A:126:NTH:H221	2:A:126:NTH:C16	0.45	2.42	11	1
1:A:40:VAL:HG21	1:B:274:VAL:CB	0.45	2.41	13	1
1:A:72:ARG:O	1:A:79:ALA:N	0.45	2.49	7	2
1:B:316:PHE:CD1	1:B:317:GLY:N	0.45	2.85	5	1
1:A:88:PHE:N	1:A:91:ARG:O	0.45	2.49	6	1
2:B:326:NTH:C16	2:B:326:NTH:H222	0.45	2.41	8	1
1:A:14:TYR:CD2	1:A:101:PHE:CZ	0.45	3.04	10	1
1:B:304:ASN:ND2	1:B:310:VAL:HB	0.45	2.26	10	1
1:A:92:LYS:HE3	1:A:125:ALA:OXT	0.45	2.11	14	1
1:A:102:ARG:CD	1:B:313:ARG:HD3	0.45	2.41	15	1
1:A:7:MET:SD	1:A:74:VAL:O	0.45	2.75	4	1
1:A:63:LEU:HD23	1:A:86:PHE:HB3	0.45	1.88	7	1
1:B:280:PHE:O	1:B:299:ASP:N	0.45	2.47	7	4
1:A:43:GLU:N	1:A:43:GLU:OE1	0.45	2.48	9	1
1:A:72:ARG:NH2	1:B:315:LEU:HA	0.45	2.26	9	1
1:B:286:PHE:CE2	1:B:288:PHE:CZ	0.45	3.05	12	1
1:A:102:ARG:NH2	1:B:313:ARG:CB	0.45	2.80	15	1
1:A:23:LEU:CD1	1:A:55:PHE:HB3	0.45	2.42	10	7
1:A:69:GLN:HG3	1:A:70:GLU:N	0.45	2.26	13	4
1:A:64:ALA:N	1:A:85:SER:O	0.45	2.47	10	4
1:B:292:LYS:HD3	1:B:292:LYS:O	0.45	2.12	4	1
1:A:11:VAL:HG22	1:A:80:PHE:CD1	0.45	2.47	5	1
1:A:88:PHE:O	1:A:89:GLN:C	0.45	2.55	12	2
1:A:102:ARG:CB	1:A:111:SER:HB2	0.45	2.41	1	2
1:A:41:GLY:O	1:A:42:SER:HB2	0.45	2.12	7	3
1:A:27:VAL:HG21	1:A:52:ARG:CB	0.45	2.38	2	2
1:A:24:ASP:O	1:A:28:ALA:CB	0.45	2.65	2	1
1:A:10:VAL:CB	1:A:103:PHE:CZ	0.45	3.00	3	2
1:B:277:GLU:HG2	1:B:301:PHE:O	0.45	2.11	10	6
1:A:34:ALA:CA	1:A:51:ILE:HD11	0.45	2.42	7	1
1:B:245:ARG:NH1	1:B:251:ILE:HG12	0.45	2.27	7	1
1:A:72:ARG:NH1	1:A:78:ALA:C	0.45	2.70	9	1
1:B:210:VAL:CG2	1:B:303:PHE:CE2	0.45	3.00	9	1
1:A:22:ASP:OD1	1:A:24:ASP:OD2	0.45	2.33	10	1
1:B:321:ILE:HG22	1:B:322:HIS:CD2	0.45	2.47	13	1
1:A:98:ILE:CD1	1:B:272:ARG:NE	0.45	2.79	14	1
1:A:102:ARG:CB	1:A:111:SER:O	0.45	2.65	6	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:297:PRO:HA	1:B:320:ASN:OD1	0.45	2.11	3	1
1:B:210:VAL:CB	1:B:303:PHE:CZ	0.45	3.00	6	5
1:B:262:PRO:O	1:B:286:PHE:HB2	0.45	2.11	15	6
1:B:261:LEU:HD21	1:B:286:PHE:CD2	0.45	2.47	7	1
1:A:100:HIS:CD2	1:B:315:LEU:CD1	0.45	3.00	8	1
1:B:315:LEU:O	1:B:316:PHE:C	0.45	2.55	9	1
1:A:45:ARG:HD2	1:A:51:ILE:CD1	0.45	2.41	11	1
1:A:85:SER:O	1:A:85:SER:OG	0.45	2.33	15	3
1:A:100:HIS:CD2	1:B:300:HIS:CD2	0.45	3.04	15	1
1:B:226:ILE:HG22	1:B:230:PHE:CD2	0.45	2.46	1	1
1:A:37:GLU:O	1:A:114:ALA:CB	0.45	2.64	2	1
1:A:10:VAL:CG2	1:A:103:PHE:CE2	0.45	2.99	8	2
1:A:67:LEU:O	1:A:68:THR:HB	0.45	2.12	5	1
1:B:293:THR:HB	1:B:322:HIS:CB	0.45	2.42	7	1
1:B:272:ARG:O	1:B:278:ALA:HB1	0.45	2.12	15	2
1:B:267:LEU:C	1:B:268:THR:HG23	0.45	2.31	12	1
1:B:293:THR:HG22	1:B:322:HIS:HB2	0.45	1.87	13	1
1:B:273:ALA:O	1:B:274:VAL:HG22	0.45	2.12	14	1
1:B:249:ALA:O	1:B:253:GLU:HB2	0.44	2.12	4	9
1:B:317:GLY:O	1:B:320:ASN:N	0.44	2.43	4	1
1:A:107:GLY:O	1:A:108:LYS:HB2	0.44	2.11	6	2
1:A:117:GLY:O	1:A:121:ILE:CG1	0.44	2.65	15	2
1:A:10:VAL:HG11	1:A:109:VAL:HG22	0.44	1.88	9	1
1:A:116:PHE:C	1:A:116:PHE:CD1	0.44	2.85	9	1
1:A:61:LEU:CD2	2:A:126:NTH:O17	0.44	2.66	9	1
1:A:86:PHE:CZ	2:A:126:NTH:C20	0.44	2.99	11	1
1:A:120:ASN:OD1	1:B:272:ARG:CZ	0.44	2.65	14	2
1:B:274:VAL:O	1:B:276:ASN:N	0.44	2.49	7	2
1:A:3:THR:O	1:A:6:HIS:CD2	0.44	2.71	13	1
1:A:47:GLY:C	1:A:51:ILE:HD12	0.44	2.32	14	1
1:A:99:ASP:CG	1:A:112:MET:HE3	0.44	2.33	15	1
1:A:38:ASP:OD1	1:A:39:PRO:HA	0.44	2.11	1	2
1:A:57:ASN:ND2	1:A:60:LYS:CE	0.44	2.81	1	1
1:B:269:GLN:CG	1:B:270:GLU:N	0.44	2.78	1	4
1:A:26:ILE:HG22	1:A:30:PHE:CD2	0.44	2.48	3	2
1:A:23:LEU:O	1:A:25:GLY:N	0.44	2.51	11	2
1:B:217:ALA:HB1	1:B:226:ILE:HG13	0.44	1.88	11	4
1:B:296:ALA:N	1:B:297:PRO:HD3	0.44	2.27	11	2
1:A:86:PHE:CE1	2:A:126:NTH:C21	0.44	3.00	7	1
1:B:258:SER:CB	2:B:326:NTH:H11	0.44	2.42	7	1
1:A:10:VAL:HG21	1:A:109:VAL:HG23	0.44	1.89	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:109:VAL:HG11	1:A:112:MET:CE	0.44	2.42	10	1
1:A:11:VAL:HG11	1:A:71:VAL:HG11	0.44	1.90	13	1
1:A:74:VAL:HG11	1:B:317:GLY:HA2	0.44	1.88	13	1
2:A:126:NTH:H161	2:A:126:NTH:H222	0.44	1.89	14	1
1:A:92:LYS:CD	1:A:92:LYS:O	0.44	2.66	1	2
1:A:100:HIS:CB	1:A:113:ARG:HB2	0.44	2.42	2	2
1:A:11:VAL:CG1	1:A:71:VAL:CG2	0.44	2.94	2	1
1:A:97:PRO:HB3	1:A:120:ASN:ND2	0.44	2.27	11	3
1:A:39:PRO:O	1:A:40:VAL:C	0.44	2.54	6	2
1:A:115:LEU:O	1:A:116:PHE:C	0.44	2.55	4	1
1:B:217:ALA:HB3	1:B:226:ILE:CG1	0.44	2.42	12	2
1:A:103:PHE:C	1:A:110:VAL:CG2	0.44	2.86	8	1
1:A:27:VAL:CG2	1:A:52:ARG:HG3	0.44	2.42	8	1
1:A:45:ARG:CG	1:A:50:ALA:CB	0.44	2.83	10	1
1:B:238:ASP:HA	1:B:239:PRO:O	0.44	2.12	13	1
1:B:316:PHE:CE1	2:B:326:NTH:C6	0.44	3.00	14	1
1:A:102:ARG:NH1	1:B:313:ARG:HD2	0.44	2.28	15	1
1:A:96:ALA:O	1:A:120:ASN:CG	0.44	2.56	5	8
1:A:72:ARG:HB2	1:A:79:ALA:O	0.44	2.12	4	8
1:A:52:ARG:O	1:A:53:GLU:C	0.44	2.56	11	10
1:B:272:ARG:HB2	1:B:279:ALA:O	0.44	2.13	8	10
1:A:76:ASN:O	1:A:103:PHE:HB2	0.44	2.13	6	2
1:B:263:LEU:CB	1:B:286:PHE:HB3	0.44	2.42	5	3
1:B:237:GLU:O	1:B:238:ASP:CB	0.44	2.65	9	1
1:A:37:GLU:OE2	1:A:113:ARG:CG	0.44	2.65	12	1
1:B:206:HIS:NE2	1:B:207:MET:HG3	0.44	2.28	13	1
1:B:263:LEU:HD13	1:B:284:VAL:HG11	0.44	1.89	13	1
1:B:286:PHE:CZ	2:B:326:NTH:C21	0.44	2.99	14	1
1:A:37:GLU:OE1	1:A:113:ARG:HG2	0.44	2.13	1	1
1:B:296:ALA:O	1:B:320:ASN:CG	0.44	2.56	9	7
1:A:118:GLU:HA	1:A:121:ILE:HG12	0.44	1.88	3	2
1:B:292:LYS:CD	1:B:292:LYS:C	0.44	2.86	6	2
1:A:59:LEU:O	1:A:60:LYS:C	0.44	2.56	10	2
1:A:19:ASN:CG	1:A:65:VAL:O	0.44	2.56	11	2
1:B:238:ASP:CB	1:B:239:PRO:HA	0.44	2.43	9	1
1:A:55:PHE:CZ	2:A:126:NTH:C2	0.44	3.00	10	1
1:B:223:LEU:HD23	1:B:259:LEU:HD22	0.44	1.83	15	1
1:B:212:GLN:O	1:B:213:ARG:C	0.44	2.56	13	15
1:B:294:VAL:HG12	1:B:322:HIS:HB2	0.44	1.89	2	1
1:A:38:ASP:CG	1:A:114:ALA:CB	0.44	2.86	3	1
1:A:68:THR:C	1:A:69:GLN:HG2	0.44	2.33	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:243:GLU:N	1:B:244:PRO:CD	0.44	2.80	6	1
1:A:92:LYS:O	1:A:92:LYS:CD	0.44	2.66	7	2
1:A:72:ARG:CD	1:A:72:ARG:C	0.44	2.86	9	1
1:A:17:ALA:HB3	1:A:26:ILE:CG1	0.44	2.42	11	2
1:B:317:GLY:O	1:B:321:ILE:CG1	0.44	2.66	2	4
1:A:63:LEU:HD22	1:A:84:VAL:HG12	0.44	1.85	3	1
1:B:261:LEU:O	1:B:263:LEU:HD11	0.44	2.12	5	3
1:B:286:PHE:CE2	1:B:293:THR:OG1	0.44	2.70	5	1
1:A:86:PHE:CE2	1:A:93:THR:OG1	0.44	2.70	7	1
1:B:297:PRO:CB	1:B:316:PHE:CE1	0.44	3.00	7	1
1:B:222:ASP:OD2	1:B:225:GLY:N	0.44	2.51	10	1
1:B:215:VAL:O	1:B:216:ALA:C	0.44	2.56	4	13
1:A:63:LEU:CB	1:A:86:PHE:HB3	0.44	2.43	15	6
1:B:293:THR:CG2	1:B:323:ALA:HA	0.44	2.43	3	2
1:A:67:LEU:HA	1:A:82:PHE:CB	0.44	2.43	5	1
1:A:61:LEU:HD23	1:A:63:LEU:HG	0.44	1.89	7	1
1:B:316:PHE:HZ	2:B:326:NTH:H61	0.44	1.73	7	1
1:B:293:THR:HG21	1:B:322:HIS:HB2	0.44	1.88	7	1
1:B:268:THR:C	1:B:269:GLN:HG2	0.44	2.34	8	1
1:A:103:PHE:HA	1:A:110:VAL:HG23	0.44	1.90	13	1
1:B:272:ARG:NE	1:B:272:ARG:HA	0.44	2.28	15	1
1:A:47:GLY:O	1:A:51:ILE:HG13	0.43	2.13	10	6
1:A:12:GLN:O	1:A:13:ARG:C	0.43	2.57	3	14
1:A:77:GLU:HG2	1:A:101:PHE:O	0.43	2.13	2	2
1:A:93:THR:HG22	1:A:94:VAL:H	0.43	1.73	4	1
1:A:102:ARG:HB2	1:A:111:SER:O	0.43	2.13	6	3
1:A:30:PHE:CE2	1:A:51:ILE:CG2	0.43	3.01	8	1
1:B:302:ARG:CD	1:B:311:SER:HB2	0.43	2.43	8	1
1:A:3:THR:HG23	1:A:6:HIS:NE2	0.43	2.27	14	1
1:B:210:VAL:CG1	1:B:301:PHE:CD1	0.43	3.01	14	1
1:A:7:MET:SD	1:A:75:ALA:O	0.43	2.76	1	2
1:B:237:GLU:HB2	1:B:313:ARG:HG2	0.43	1.89	1	1
1:A:15:VAL:O	1:A:16:ALA:C	0.43	2.57	13	13
1:B:237:GLU:O	1:B:238:ASP:HB2	0.43	2.12	15	8
1:A:101:PHE:CE1	1:A:112:MET:HE1	0.43	2.47	10	2
1:A:61:LEU:HB3	1:A:63:LEU:CD2	0.43	2.43	4	2
1:B:318:GLU:HA	1:B:321:ILE:HG12	0.43	1.90	7	3
1:A:22:ASP:O	1:A:22:ASP:CG	0.43	2.57	7	2
1:B:210:VAL:HA	1:B:229:LEU:CD2	0.43	2.41	7	2
1:B:273:ALA:HA	1:B:278:ALA:CB	0.43	2.43	8	2
1:A:22:ASP:O	1:A:22:ASP:OD2	0.43	2.36	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:275:ALA:O	1:B:276:ASN:HB2	0.43	2.13	10	1
1:B:245:ARG:HD3	1:B:250:ALA:CA	0.43	2.43	11	1
1:B:292:LYS:HG2	1:B:293:THR:N	0.43	2.28	11	1
1:B:304:ASN:CG	1:B:310:VAL:CG2	0.43	2.86	12	1
1:A:34:ALA:O	1:A:51:ILE:CG1	0.43	2.66	15	1
1:A:11:VAL:HG22	1:A:80:PHE:CD2	0.43	2.48	2	1
1:A:69:GLN:OE1	1:A:70:GLU:O	0.43	2.36	4	1
1:A:98:ILE:HD11	1:B:272:ARG:NE	0.43	2.29	4	1
1:B:263:LEU:HD11	2:B:326:NTH:H121	0.43	1.90	4	1
1:B:263:LEU:CD2	1:B:286:PHE:HB3	0.43	2.42	4	2
1:A:104:ASN:N	1:A:104:ASN:ND2	0.43	2.64	6	1
1:B:241:GLY:O	1:B:242:SER:HB2	0.43	2.13	12	2
1:B:287:GLU:CD	1:B:288:PHE:N	0.43	2.71	7	2
1:A:77:GLU:CG	1:A:102:ARG:HA	0.43	2.43	14	1
1:A:26:ILE:CD1	1:A:55:PHE:CD1	0.43	2.99	2	1
1:A:118:GLU:CA	1:A:121:ILE:HG12	0.43	2.44	3	1
1:B:297:PRO:HB3	1:B:320:ASN:ND2	0.43	2.29	4	1
1:A:104:ASN:OD1	1:A:108:LYS:O	0.43	2.36	6	1
1:A:93:THR:CG2	1:A:123:ALA:HA	0.43	2.43	8	1
1:B:252:ARG:O	1:B:253:GLU:C	0.43	2.57	3	8
1:A:61:LEU:HD21	2:A:126:NTH:O20	0.43	2.13	3	1
1:A:15:VAL:HB	1:A:67:LEU:CD1	0.43	2.39	5	1
1:A:39:PRO:HB3	1:A:116:PHE:CZ	0.43	2.48	7	1
1:B:286:PHE:CE2	2:B:326:NTH:H212	0.43	2.47	8	1
1:B:222:ASP:CG	1:B:222:ASP:O	0.43	2.57	9	3
1:A:74:VAL:HB	1:B:240:VAL:HG21	0.43	1.90	12	1
1:A:7:MET:CE	1:A:7:MET:HA	0.43	2.43	14	1
1:A:41:GLY:CA	1:B:275:ALA:HB1	0.43	2.43	15	1
1:A:66:GLU:O	1:A:67:LEU:C	0.43	2.57	1	3
1:A:67:LEU:CD2	1:A:82:PHE:HB3	0.43	2.43	1	1
1:B:233:ASP:CB	1:B:247:GLY:HA2	0.43	2.44	4	5
1:A:77:GLU:CG	1:A:101:PHE:O	0.43	2.67	2	1
1:B:235:THR:OG1	1:B:311:SER:OG	0.43	2.35	2	1
1:B:222:ASP:O	1:B:222:ASP:CG	0.43	2.57	14	3
1:B:288:PHE:O	1:B:289:GLN:C	0.43	2.57	5	3
1:A:22:ASP:O	1:A:22:ASP:OD1	0.43	2.36	6	1
1:A:115:LEU:O	1:A:116:PHE:CB	0.43	2.66	8	2
1:A:22:ASP:OD1	1:A:24:ASP:CB	0.43	2.66	8	1
1:B:245:ARG:HG3	1:B:250:ALA:CB	0.43	2.38	8	1
1:B:223:LEU:HG	1:B:256:ALA:CB	0.43	2.43	8	2
1:A:22:ASP:OD2	1:A:25:GLY:N	0.43	2.45	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:50:ALA:O	1:A:51:ILE:C	0.43	2.56	10	3
1:A:81:ALA:CA	1:A:98:ILE:HG23	0.43	2.44	10	1
1:A:45:ARG:CZ	1:A:54:PHE:HB3	0.43	2.43	11	1
1:A:86:PHE:CE2	1:A:87:GLU:O	0.43	2.71	12	1
1:A:72:ARG:HB3	1:A:79:ALA:O	0.43	2.14	14	1
1:B:202:ASN:O	1:B:203:THR:C	0.43	2.57	1	2
1:B:207:MET:HB2	1:B:273:ALA:HB1	0.43	1.90	1	1
1:B:223:LEU:CD1	1:B:255:PHE:HB3	0.43	2.43	15	6
1:A:117:GLY:O	1:A:119:LYS:N	0.43	2.52	3	1
1:A:17:ALA:HA	1:A:22:ASP:OD1	0.43	2.14	4	2
1:A:72:ARG:NH2	1:A:72:ARG:HB3	0.43	2.28	5	1
1:A:14:TYR:CE1	1:A:15:VAL:HG23	0.43	2.49	15	2
1:A:94:VAL:HG12	1:A:122:HIS:CD2	0.43	2.49	7	1
1:B:227:VAL:HG21	1:B:252:ARG:CG	0.43	2.43	7	1
1:B:204:PRO:O	1:B:208:THR:HB	0.43	2.12	15	2
1:B:238:ASP:OD1	2:B:326:NTH:H62	0.43	2.14	13	2
1:B:223:LEU:O	1:B:225:GLY:N	0.43	2.52	12	1
1:A:72:ARG:HA	1:A:72:ARG:NE	0.43	2.28	14	1
1:B:233:ASP:HA	1:B:247:GLY:HA2	0.43	1.90	6	5
1:A:74:VAL:O	1:A:76:ASN:N	0.43	2.51	2	1
1:A:87:GLU:CD	1:A:88:PHE:O	0.43	2.57	2	3
1:B:235:THR:O	1:B:236:VAL:CG2	0.43	2.67	2	1
1:B:237:GLU:HA	1:B:244:PRO:HB3	0.43	1.89	7	2
1:A:4:PRO:O	1:A:8:THR:HB	0.43	2.14	10	3
1:B:278:ALA:CB	1:B:301:PHE:HB2	0.43	2.40	4	1
1:A:86:PHE:CZ	1:A:93:THR:CB	0.43	3.01	7	1
1:B:243:GLU:OE1	1:B:243:GLU:O	0.43	2.37	10	1
1:B:233:ASP:OD1	1:B:233:ASP:O	0.43	2.37	11	1
1:B:281:ALA:CA	1:B:298:ILE:HG23	0.43	2.43	11	1
1:B:204:PRO:O	1:B:205:GLU:C	0.43	2.56	13	1
1:A:116:PHE:HA	1:B:272:ARG:NH2	0.43	2.28	14	1
1:B:293:THR:HG22	1:B:294:VAL:H	0.43	1.73	15	1
1:B:239:PRO:O	1:B:242:SER:HB2	0.43	2.14	7	4
1:A:13:ARG:O	1:A:14:TYR:C	0.43	2.57	2	1
1:A:87:GLU:OE1	1:A:87:GLU:C	0.43	2.57	2	1
1:B:201:MET:O	1:B:202:ASN:C	0.43	2.57	14	2
1:B:293:THR:HB	1:B:322:HIS:HB2	0.43	1.89	13	2
1:B:210:VAL:CB	1:B:303:PHE:CE2	0.43	3.02	9	2
1:B:270:GLU:O	1:B:272:ARG:NH2	0.43	2.51	9	1
1:A:95:VAL:HG13	1:A:120:ASN:HD21	0.43	1.72	11	1
1:B:304:ASN:HB3	1:B:310:VAL:CG1	0.43	2.43	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:235:THR:CG2	1:B:246:SER:HB2	0.43	2.41	13	1
1:A:107:GLY:C	1:A:108:LYS:CG	0.43	2.86	14	1
1:B:267:LEU:HD22	1:B:271:VAL:CG2	0.43	2.44	14	1
1:B:278:ALA:O	1:B:300:HIS:ND1	0.43	2.51	14	1
1:B:238:ASP:HA	1:B:239:PRO:C	0.43	2.34	2	7
1:B:240:VAL:CG1	1:B:315:LEU:HA	0.43	2.44	3	1
1:B:259:LEU:O	1:B:260:LYS:C	0.43	2.57	4	2
1:B:284:VAL:O	1:B:294:VAL:HA	0.43	2.14	4	5
1:B:272:ARG:HG3	1:B:279:ALA:O	0.43	2.14	13	4
1:A:100:HIS:CB	1:A:113:ARG:HB3	0.43	2.43	7	1
1:A:84:VAL:O	1:A:94:VAL:HG22	0.43	2.13	9	1
1:A:61:LEU:O	1:A:63:LEU:HD11	0.43	2.14	15	2
1:B:300:HIS:CB	1:B:313:ARG:HB2	0.43	2.44	11	1
1:A:45:ARG:HD3	1:A:50:ALA:CA	0.43	2.44	12	1
1:B:322:HIS:NE2	2:B:326:NTH:C23	0.43	2.82	13	1
1:A:37:GLU:O	1:A:38:ASP:CB	0.43	2.66	14	1
1:A:73:ALA:HA	1:A:78:ALA:CB	0.42	2.44	1	2
1:B:300:HIS:CB	1:B:313:ARG:CB	0.42	2.97	12	2
1:A:40:VAL:HG11	1:B:274:VAL:CG1	0.42	2.36	2	1
1:B:281:ALA:O	1:B:282:PHE:HB3	0.42	2.14	14	3
1:A:68:THR:OG1	1:A:68:THR:O	0.42	2.33	5	1
1:A:108:LYS:HD2	1:A:108:LYS:N	0.42	2.28	6	1
1:B:256:ALA:O	1:B:259:LEU:N	0.42	2.52	7	1
1:B:321:ILE:CG2	1:B:322:HIS:N	0.42	2.79	7	1
1:B:322:HIS:CD2	1:B:322:HIS:O	0.42	2.72	7	1
1:A:61:LEU:HD13	2:A:126:NTH:C18	0.42	2.27	8	1
1:A:74:VAL:CG1	1:B:317:GLY:HA3	0.42	2.44	9	1
1:A:22:ASP:CG	1:A:24:ASP:OD1	0.42	2.58	10	1
1:A:65:VAL:HG13	1:A:82:PHE:CD2	0.42	2.49	1	1
1:B:307:GLY:O	1:B:308:LYS:HG3	0.42	2.14	1	1
1:A:37:GLU:HA	1:A:44:PRO:HB3	0.42	1.91	11	3
1:A:68:THR:HG23	1:A:69:GLN:N	0.42	2.29	3	2
1:A:23:LEU:HD21	1:A:59:LEU:CD2	0.42	2.42	5	1
1:B:263:LEU:CG	1:B:286:PHE:HB3	0.42	2.44	13	2
1:A:21:GLY:HA2	1:A:59:LEU:CD2	0.42	2.38	7	2
1:A:100:HIS:ND1	1:A:101:PHE:N	0.42	2.68	8	1
1:A:31:ALA:N	1:A:109:VAL:O	0.42	2.51	8	2
1:B:287:GLU:HG2	1:B:288:PHE:N	0.42	2.29	9	2
1:A:3:THR:O	1:A:6:HIS:ND1	0.42	2.52	11	1
1:B:286:PHE:CZ	1:B:288:PHE:CZ	0.42	3.07	12	1
1:A:72:ARG:CZ	1:B:298:ILE:HD11	0.42	2.44	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:237:GLU:CB	1:B:313:ARG:HG2	0.42	2.44	1	1
1:A:100:HIS:CE1	1:B:315:LEU:HD13	0.42	2.50	4	1
1:B:203:THR:CG2	1:B:205:GLU:HB2	0.42	2.44	5	1
1:A:39:PRO:O	1:A:42:SER:HB2	0.42	2.14	9	2
1:A:33:ASP:HA	1:A:47:GLY:HA2	0.42	1.91	9	6
1:A:120:ASN:OD1	1:B:272:ARG:NH1	0.42	2.52	12	1
1:B:314:ALA:HB1	1:B:316:PHE:HE2	0.42	1.74	13	1
1:A:100:HIS:HB3	1:A:113:ARG:O	0.42	2.14	14	1
1:B:316:PHE:CZ	2:B:326:NTH:C6	0.42	3.01	14	1
1:A:86:PHE:HE2	2:A:126:NTH:H221	0.42	1.70	15	1
1:A:40:VAL:HG11	1:A:115:LEU:HA	0.42	1.89	15	1
1:A:13:ARG:HD2	1:A:29:LEU:CD1	0.42	2.43	2	1
1:A:29:LEU:O	1:A:109:VAL:HB	0.42	2.14	3	2
1:A:14:TYR:CD1	1:A:15:VAL:N	0.42	2.87	4	1
1:B:261:LEU:CD2	1:B:263:LEU:CG	0.42	2.98	4	1
1:A:37:GLU:O	1:A:38:ASP:HB2	0.42	2.14	11	5
1:A:104:ASN:ND2	1:A:108:LYS:O	0.42	2.52	6	1
1:A:102:ARG:HD2	1:A:111:SER:CB	0.42	2.44	6	1
1:B:213:ARG:O	1:B:214:TYR:C	0.42	2.57	7	1
1:B:250:ALA:O	1:B:251:ILE:C	0.42	2.58	9	3
2:B:326:NTH:C21	2:B:326:NTH:H161	0.42	2.44	13	1
1:B:261:LEU:HB3	1:B:263:LEU:CD2	0.42	2.44	1	2
1:A:61:LEU:CD1	2:A:126:NTH:C12	0.42	2.96	2	1
1:A:63:LEU:HD22	1:A:86:PHE:CD1	0.42	2.50	2	1
1:B:217:ALA:HB1	1:B:222:ASP:O	0.42	2.15	2	1
1:A:23:LEU:HG	1:A:56:ALA:CB	0.42	2.44	6	2
1:A:10:VAL:HA	1:A:29:LEU:CD2	0.42	2.43	7	1
1:A:122:HIS:CG	1:A:123:ALA:N	0.42	2.88	9	1
1:A:29:LEU:HD12	1:A:29:LEU:HA	0.42	1.74	9	1
1:B:302:ARG:O	1:B:304:ASN:ND2	0.42	2.52	10	1
1:A:77:GLU:O	1:A:78:ALA:CB	0.42	2.64	13	2
1:B:316:PHE:HA	1:B:320:ASN:ND2	0.42	2.29	11	1
1:A:92:LYS:HG2	1:A:93:THR:N	0.42	2.29	12	1
1:A:64:ALA:CB	1:A:85:SER:HG	0.42	2.28	15	1
1:B:295:VAL:HG12	1:B:296:ALA:N	0.42	2.29	11	3
1:A:110:VAL:O	1:A:110:VAL:CG1	0.42	2.68	6	1
1:B:207:MET:HA	1:B:303:PHE:CE2	0.42	2.49	7	1
1:B:245:ARG:HD2	1:B:250:ALA:C	0.42	2.34	7	1
1:A:3:THR:O	1:A:6:HIS:NE2	0.42	2.53	13	1
1:B:288:PHE:O	1:B:289:GLN:HG3	0.42	2.15	13	1
1:A:92:LYS:CD	1:A:92:LYS:C	0.42	2.87	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:307:GLY:O	1:B:308:LYS:HB2	0.42	2.14	4	2
1:A:101:PHE:CE1	1:A:109:VAL:HG11	0.42	2.50	2	1
1:A:72:ARG:NH2	1:A:74:VAL:HG22	0.42	2.28	5	1
1:B:295:VAL:HG13	1:B:321:ILE:HA	0.42	1.91	5	1
1:B:230:PHE:O	1:B:231:ALA:C	0.42	2.57	11	2
1:B:207:MET:SD	1:B:303:PHE:CD2	0.42	3.13	9	1
1:A:50:ALA:O	1:A:54:PHE:N	0.42	2.50	10	1
1:B:211:VAL:HG11	1:B:271:VAL:HG11	0.42	1.92	10	1
1:B:222:ASP:OD2	1:B:225:GLY:HA3	0.42	2.13	10	1
1:B:288:PHE:CE2	1:B:293:THR:OG1	0.42	2.72	12	1
1:A:15:VAL:HA	1:A:18:LEU:HB2	0.42	1.92	15	12
1:A:4:PRO:O	1:A:8:THR:N	0.42	2.48	15	4
1:B:301:PHE:CD2	1:B:303:PHE:CZ	0.42	3.08	4	1
1:B:249:ALA:O	1:B:253:GLU:CG	0.42	2.68	6	2
1:A:89:GLN:HG2	1:A:90:GLY:N	0.42	2.29	15	2
1:A:61:LEU:HD13	1:A:62:PRO:CD	0.42	2.41	9	1
1:A:55:PHE:CE1	2:A:126:NTH:H21	0.42	2.50	10	1
2:A:126:NTH:H161	2:A:126:NTH:C21	0.42	2.45	14	1
1:B:283:THR:HA	1:B:295:VAL:O	0.42	2.15	15	1
1:A:21:GLY:HA2	1:A:59:LEU:CD1	0.42	2.42	2	1
1:A:40:VAL:CG2	1:A:41:GLY:N	0.42	2.75	2	1
1:B:286:PHE:HZ	2:B:326:NTH:H221	0.42	1.69	2	1
1:B:229:LEU:HA	1:B:229:LEU:HD12	0.42	1.74	5	2
1:A:61:LEU:CD2	1:A:61:LEU:O	0.42	2.65	6	1
1:B:220:ALA:O	1:B:221:GLY:C	0.42	2.58	11	1
1:A:76:ASN:O	1:A:103:PHE:CB	0.42	2.67	13	1
1:A:7:MET:O	1:A:103:PHE:CZ	0.42	2.73	15	1
1:B:301:PHE:CD1	1:B:303:PHE:CE1	0.42	3.08	1	1
1:B:307:GLY:O	1:B:308:LYS:CG	0.42	2.68	1	2
1:B:215:VAL:HA	1:B:218:LEU:HB2	0.42	1.92	7	13
1:A:61:LEU:HB3	1:A:63:LEU:CD1	0.42	2.45	7	1
1:A:10:VAL:HG22	1:A:29:LEU:HG	0.42	1.92	9	1
1:B:277:GLU:CG	1:B:302:ARG:HG2	0.42	2.45	9	1
1:A:23:LEU:HD21	1:A:59:LEU:HB2	0.42	1.90	10	1
1:B:267:LEU:O	1:B:268:THR:HG23	0.42	2.14	12	1
1:A:20:ALA:O	1:A:21:GLY:C	0.42	2.58	14	2
1:A:100:HIS:CE1	1:B:300:HIS:CD2	0.42	3.08	13	1
1:A:30:PHE:CG	1:A:51:ILE:CG2	0.42	3.01	14	1
1:B:304:ASN:OD1	1:B:310:VAL:HB	0.42	2.14	14	1
1:B:229:LEU:O	1:B:309:VAL:HB	0.41	2.15	2	1
1:A:34:ALA:HB3	1:A:51:ILE:HG13	0.41	1.91	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:296:ALA:O	1:B:320:ASN:CB	0.41	2.68	3	1
1:B:272:ARG:CA	1:B:279:ALA:O	0.41	2.68	4	1
1:B:288:PHE:C	1:B:289:GLN:HG2	0.41	2.35	5	2
1:B:276:ASN:O	1:B:303:PHE:HB2	0.41	2.15	6	4
1:A:61:LEU:HD11	2:A:126:NTH:H212	0.41	1.92	7	1
1:B:207:MET:CE	1:B:306:ALA:HA	0.41	2.45	9	1
1:B:281:ALA:CB	1:B:298:ILE:HG13	0.41	2.45	9	2
1:B:278:ALA:O	1:B:301:PHE:HB2	0.41	2.15	10	2
1:A:59:LEU:O	1:A:61:LEU:N	0.41	2.53	10	1
1:A:95:VAL:CG2	1:A:121:ILE:CG2	0.41	2.94	12	1
1:A:81:ALA:O	1:A:82:PHE:CB	0.41	2.68	15	1
1:B:266:GLU:O	1:B:267:LEU:C	0.41	2.59	14	3
1:B:219:ASN:ND2	1:B:266:GLU:OE1	0.41	2.53	4	1
1:B:235:THR:CG2	1:B:246:SER:HB3	0.41	2.45	6	1
1:A:47:GLY:O	1:A:51:ILE:HG12	0.41	2.16	13	2
1:A:32:ASP:O	1:A:33:ASP:OD1	0.41	2.37	11	1
1:A:6:HIS:NE2	1:A:7:MET:HG2	0.41	2.29	11	1
1:B:241:GLY:O	1:B:242:SER:CB	0.41	2.67	12	1
1:A:10:VAL:O	1:A:29:LEU:HD21	0.41	2.14	1	1
1:A:54:PHE:O	1:A:55:PHE:C	0.41	2.58	3	2
1:B:236:VAL:HG22	1:B:312:MET:CE	0.41	2.45	7	1
1:A:87:GLU:CD	1:A:90:GLY:O	0.41	2.59	8	1
2:B:326:NTH:H161	2:B:326:NTH:C21	0.41	2.45	8	1
1:B:236:VAL:HG23	1:B:251:ILE:HG12	0.41	1.91	9	1
1:A:14:TYR:OH	1:A:55:PHE:CZ	0.41	2.67	10	1
1:A:36:VAL:HG11	1:A:45:ARG:NE	0.41	2.31	11	1
1:A:101:PHE:CE1	1:A:109:VAL:HG21	0.41	2.51	12	1
1:A:36:VAL:O	1:A:37:GLU:HG2	0.41	2.16	1	1
1:A:7:MET:HE1	1:A:103:PHE:CD2	0.41	2.48	3	1
1:A:23:LEU:HD12	1:A:55:PHE:HB3	0.41	1.90	5	1
1:B:261:LEU:HD13	2:B:326:NTH:C17	0.41	2.45	5	1
1:A:113:ARG:NH1	1:B:313:ARG:NH1	0.41	2.68	8	1
1:B:243:GLU:CD	1:B:243:GLU:O	0.41	2.58	10	1
1:A:77:GLU:OE2	1:A:102:ARG:CZ	0.41	2.69	14	1
1:B:267:LEU:HA	1:B:282:PHE:CB	0.41	2.46	14	1
1:B:251:ILE:HD13	1:B:251:ILE:HA	0.41	1.74	15	1
1:A:39:PRO:C	1:A:40:VAL:HG13	0.41	2.36	1	1
1:A:39:PRO:HG2	1:A:42:SER:OG	0.41	2.15	2	2
1:A:113:ARG:NH2	1:B:277:GLU:HG3	0.41	2.30	3	1
1:A:42:SER:O	1:A:43:GLU:HB2	0.41	2.15	3	1
1:A:68:THR:CG2	1:A:69:GLN:N	0.41	2.84	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:40:VAL:CG1	1:A:115:LEU:HA	0.41	2.45	8	1
1:B:223:LEU:HA	1:B:223:LEU:HD13	0.41	1.76	8	1
1:A:110:VAL:O	1:A:110:VAL:HG12	0.41	2.14	12	1
1:A:23:LEU:HA	1:A:23:LEU:HD13	0.41	1.77	13	1
1:A:7:MET:CA	1:A:7:MET:HE2	0.41	2.45	14	1
1:A:100:HIS:CB	1:A:113:ARG:CB	0.41	2.98	2	1
1:B:235:THR:OG1	1:B:311:SER:HA	0.41	2.16	2	1
1:A:85:SER:CB	1:A:94:VAL:CG2	0.41	2.98	3	1
1:B:214:TYR:CE1	1:B:215:VAL:HG23	0.41	2.50	15	2
1:A:14:TYR:N	1:A:29:LEU:CD2	0.41	2.84	5	1
1:A:81:ALA:CB	1:A:98:ILE:CG1	0.41	2.99	8	1
1:B:315:LEU:C	1:B:316:PHE:CG	0.41	2.93	13	1
1:A:102:ARG:CZ	1:B:313:ARG:HD2	0.41	2.45	15	1
1:A:100:HIS:HB2	1:A:113:ARG:CB	0.41	2.45	2	1
1:A:97:PRO:HA	1:A:116:PHE:CB	0.41	2.45	4	1
1:A:30:PHE:HZ	1:A:112:MET:HE3	0.41	1.68	6	1
1:B:248:THR:O	1:B:249:ALA:C	0.41	2.58	7	1
1:A:52:ARG:O	1:A:54:PHE:N	0.41	2.54	8	1
1:A:87:GLU:HB2	1:A:92:LYS:CB	0.41	2.45	8	1
1:A:40:VAL:CG1	1:A:114:ALA:O	0.41	2.68	11	1
1:A:88:PHE:CE2	1:A:93:THR:OG1	0.41	2.74	13	1
1:A:109:VAL:HG11	1:A:112:MET:HE1	0.41	1.92	14	1
1:B:229:LEU:HD12	1:B:229:LEU:HA	0.41	1.72	14	1
1:A:115:LEU:HD21	1:B:272:ARG:HB3	0.41	1.91	14	1
1:A:102:ARG:HD2	1:A:111:SER:HB2	0.41	1.92	6	1
1:A:14:TYR:CE2	1:A:112:MET:SD	0.41	3.14	6	1
1:B:302:ARG:HD3	1:B:311:SER:OG	0.41	2.16	6	1
1:B:222:ASP:O	1:B:223:LEU:C	0.41	2.59	9	1
1:B:247:GLY:O	1:B:251:ILE:HG12	0.41	2.16	10	1
1:B:217:ALA:CB	1:B:226:ILE:CG1	0.41	2.98	11	1
1:A:38:ASP:OD2	2:A:126:NTH:C6	0.41	2.69	14	1
1:B:302:ARG:C	1:B:303:PHE:CD1	0.41	2.94	14	1
1:A:33:ASP:OD1	1:A:33:ASP:N	0.41	2.51	1	1
1:B:244:PRO:O	1:B:245:ARG:HD2	0.41	2.16	1	1
1:A:63:LEU:HA	1:A:86:PHE:HB3	0.41	1.93	2	1
1:A:22:ASP:O	1:A:23:LEU:C	0.41	2.59	3	1
1:A:26:ILE:HG22	1:A:30:PHE:HD2	0.41	1.76	3	1
1:A:15:VAL:CB	1:A:67:LEU:HD11	0.41	2.42	5	1
1:A:60:LYS:O	1:A:62:PRO:HD3	0.41	2.15	6	1
1:B:245:ARG:HD2	1:B:250:ALA:CB	0.41	2.46	7	1
1:A:54:PHE:C	1:A:56:ALA:N	0.41	2.75	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:261:LEU:HD11	2:B:326:NTH:H212	0.41	1.93	7	1
1:A:27:VAL:O	1:A:30:PHE:N	0.41	2.53	8	1
1:B:260:LYS:O	1:B:262:PRO:HD3	0.41	2.16	8	1
1:A:72:ARG:C	1:A:72:ARG:HD2	0.41	2.36	9	1
1:A:78:ALA:O	1:A:101:PHE:HB2	0.41	2.15	10	1
1:A:14:TYR:HH	1:A:55:PHE:HE2	0.41	1.49	10	1
1:A:59:LEU:C	1:A:61:LEU:N	0.41	2.74	10	1
1:A:116:PHE:CD1	1:A:116:PHE:N	0.41	2.89	11	1
1:A:86:PHE:CZ	2:A:126:NTH:O20	0.41	2.74	11	1
1:B:280:PHE:CZ	1:B:299:ASP:OD2	0.41	2.74	12	1
1:A:41:GLY:HA2	1:B:276:ASN:ND2	0.41	2.31	13	1
1:A:7:MET:HE2	1:A:7:MET:N	0.41	2.30	14	1
1:B:280:PHE:CZ	1:B:299:ASP:CB	0.41	3.04	2	1
1:A:10:VAL:HG13	1:A:109:VAL:HG22	0.41	1.93	3	1
1:A:23:LEU:C	1:A:25:GLY:N	0.41	2.73	3	1
1:A:48:THR:C	1:A:50:ALA:N	0.41	2.75	3	1
1:B:254:PHE:O	1:B:255:PHE:C	0.41	2.58	14	1
1:A:81:ALA:O	1:A:82:PHE:HB3	0.41	2.16	15	1
1:A:120:ASN:OD1	1:A:121:ILE:HD11	0.40	2.15	2	1
1:A:61:LEU:HD21	2:A:126:NTH:C20	0.40	2.46	3	1
1:B:247:GLY:O	1:B:251:ILE:N	0.40	2.55	3	1
1:A:23:LEU:HG	1:A:56:ALA:HB2	0.40	1.93	6	1
1:B:271:VAL:CG1	1:B:272:ARG:N	0.40	2.84	7	1
1:A:104:ASN:HB3	1:A:110:VAL:CG1	0.40	2.44	8	1
1:B:244:PRO:O	1:B:245:ARG:NE	0.40	2.54	9	1
1:A:79:ALA:HB2	1:A:100:HIS:CD2	0.40	2.51	13	1
1:A:26:ILE:O	1:A:30:PHE:CD1	0.40	2.74	13	1
1:B:322:HIS:NE2	2:B:326:NTH:C22	0.40	2.84	13	1
1:A:57:ASN:CG	1:A:60:LYS:CE	0.40	2.90	1	1
1:A:92:LYS:O	1:A:92:LYS:HD2	0.40	2.16	7	2
1:A:32:ASP:C	1:A:48:THR:HG1	0.40	2.19	8	1
1:B:215:VAL:CB	1:B:267:LEU:HD11	0.40	2.46	8	1
1:A:119:LYS:HE3	1:B:270:GLU:OE2	0.40	2.16	9	1
1:A:13:ARG:HH21	1:A:29:LEU:HD11	0.40	1.75	10	1
1:A:99:ASP:OD1	1:A:114:ALA:HA	0.40	2.16	10	1
1:A:52:ARG:C	1:A:54:PHE:N	0.40	2.74	12	1
1:A:40:VAL:C	1:A:42:SER:N	0.40	2.74	2	1
1:A:117:GLY:O	1:A:118:GLU:C	0.40	2.59	3	1
1:A:117:GLY:CA	1:B:274:VAL:HG13	0.40	2.47	3	1
1:A:21:GLY:CA	1:A:59:LEU:CD2	0.40	2.82	10	1
1:B:201:MET:O	1:B:202:ASN:HB2	0.40	2.17	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:118:GLU:OE1	1:B:201:MET:CE	0.40	2.69	13	1
1:B:208:THR:O	1:B:211:VAL:HB	0.40	2.17	15	1
1:B:300:HIS:O	1:B:312:MET:HG3	0.40	2.17	15	1
1:B:295:VAL:CG1	1:B:296:ALA:N	0.40	2.84	1	1
1:A:29:LEU:O	1:A:109:VAL:CB	0.40	2.69	3	1
1:B:302:ARG:HB2	1:B:311:SER:O	0.40	2.16	3	1
1:A:119:LYS:HE2	1:B:204:PRO:HG2	0.40	1.92	4	1
1:A:4:PRO:O	1:A:8:THR:OG1	0.40	2.34	8	1
1:B:277:GLU:HG3	1:B:302:ARG:HG2	0.40	1.93	8	1
1:B:236:VAL:O	1:B:244:PRO:HB2	0.40	2.16	9	1
1:A:15:VAL:O	1:A:18:LEU:HB2	0.40	2.16	10	1
1:B:302:ARG:HD2	1:B:304:ASN:OD1	0.40	2.16	10	1
1:B:242:SER:O	1:B:243:GLU:HG2	0.40	2.17	11	1
1:A:3:THR:HB	1:A:6:HIS:NE2	0.40	2.31	13	1
1:B:272:ARG:HG2	1:B:272:ARG:NH1	0.40	2.31	14	1
1:A:83:THR:HA	1:A:95:VAL:O	0.40	2.16	15	1
1:B:276:ASN:ND2	1:B:276:ASN:N	0.40	2.69	1	1
1:B:276:ASN:OD1	1:B:303:PHE:HB2	0.40	2.15	2	1
1:B:289:GLN:O	1:B:290:GLY:C	0.40	2.59	3	1
1:A:56:ALA:O	1:A:57:ASN:C	0.40	2.57	7	1
1:A:86:PHE:CZ	1:A:88:PHE:CE1	0.40	3.10	12	1
1:A:98:ILE:CD1	1:B:272:ARG:CZ	0.40	2.99	12	1
1:A:107:GLY:O	1:A:108:LYS:CG	0.40	2.70	14	1
1:A:116:PHE:HA	1:B:272:ARG:CZ	0.40	2.45	14	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	122/125 (98%)	92±3 (75±2%)	20±3 (17±3%)	10±2 (8±2%)	2	15
1	B	122/125 (98%)	92±3 (75±2%)	22±3 (18±2%)	8±2 (6±2%)	3	20
All	All	3660/3750 (98%)	2757 (75%)	644 (18%)	259 (7%)	3	17

All 47 unique Ramachandran outliers are listed below. They are sorted by the frequency of

occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	B	316	PHE	15
1	A	116	PHE	15
1	B	267	LEU	15
1	A	31	ALA	15
1	A	67	LEU	14
1	B	231	ALA	14
1	A	106	ALA	13
1	A	107	GLY	10
1	B	306	ALA	9
1	B	275	ALA	9
1	A	75	ALA	9
1	B	307	GLY	8
1	A	121	ILE	7
1	A	105	GLY	7
1	A	40	VAL	7
1	A	69	GLN	7
1	B	305	GLY	6
1	B	321	ILE	5
1	B	282	PHE	5
1	A	34	ALA	5
1	B	269	GLN	5
1	A	82	PHE	4
1	B	290	GLY	4
1	A	41	GLY	4
1	B	240	VAL	4
1	A	90	GLY	3
1	A	89	GLN	3
1	A	78	ALA	3
1	A	39	PRO	3
1	A	74	VAL	3
1	A	42	SER	3
1	B	289	GLN	2
1	A	68	THR	2
1	A	44	PRO	2
1	B	239	PRO	2
1	B	278	ALA	2
1	A	5	GLU	2
1	B	234	ALA	2
1	A	108	LYS	2
1	B	308	LYS	2
1	A	36	VAL	1
1	B	274	VAL	1

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Mol	Chain	Res	Type	Models (Total)
1	A	43	GLU	1
1	B	276	ASN	1
1	B	244	PRO	1
1	B	294	VAL	1
1	B	241	GLY	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	93/95 (98%)	61±4 (65±4%)	32±4 (35±4%)	1	10
1	B	95/95 (100%)	65±3 (68±3%)	30±3 (32±3%)	1	14
All	All	2820/2850 (99%)	1884 (67%)	936 (33%)	1	12

All 126 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	35	THR	15
1	B	263	LEU	15
1	B	274	VAL	15
1	A	74	VAL	15
1	A	101	PHE	15
1	A	46	SER	15
1	A	14	TYR	15
1	B	301	PHE	15
1	A	83	THR	15
1	A	32	ASP	15
1	A	55	PHE	15
1	B	283	THR	15
1	B	232	ASP	15
1	B	255	PHE	15
1	A	63	LEU	14
1	A	61	LEU	14
1	A	92	LYS	14
1	A	93	THR	14
1	B	261	LEU	14

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Mol	Chain	Res	Type	Models (Total)
1	A	45	ARG	14
1	B	246	SER	14
1	B	235	THR	14
1	B	254	PHE	14
1	B	293	THR	13
1	A	122	HIS	12
1	B	214	TYR	12
1	B	322	HIS	12
1	B	320	ASN	12
1	A	54	PHE	12
1	B	288	PHE	11
1	B	245	ARG	11
1	A	115	LEU	11
1	B	304	ASN	11
1	A	42	SER	11
1	A	88	PHE	11
1	B	277	GLU	11
1	B	292	LYS	10
1	B	213	ARG	10
1	B	302	ARG	10
1	B	215	VAL	10
1	A	113	ARG	10
1	A	89	GLN	10
1	A	120	ASN	10
1	B	289	GLN	10
1	A	77	GLU	10
1	A	33	ASP	9
1	B	315	LEU	9
1	A	111	SER	9
1	A	102	ARG	9
1	A	100	HIS	9
1	A	15	VAL	9
1	A	6	HIS	9
1	A	13	ARG	8
1	A	72	ARG	8
1	B	210	VAL	8
1	A	94	VAL	8
1	B	311	SER	8
1	B	272	ARG	8
1	B	313	ARG	8
1	B	242	SER	7
1	B	201	MET	7

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Mol	Chain	Res	Type	Models (Total)
1	A	104	ASN	7
1	A	119	LYS	7
1	A	66	GLU	7
1	B	300	HIS	7
1	A	67	LEU	7
1	B	308	LYS	7
1	B	268	THR	6
1	B	205	GLU	6
1	A	3	THR	6
1	B	267	LEU	6
1	B	206	HIS	6
1	A	103	PHE	6
1	A	5	GLU	6
1	A	24	ASP	6
1	A	68	THR	6
1	A	69	GLN	5
1	B	224	ASP	5
1	A	84	VAL	5
1	A	108	LYS	5
1	B	219	ASN	4
1	A	10	VAL	4
1	B	266	GLU	4
1	A	19	ASN	4
1	B	233	ASP	4
1	B	319	LYS	4
1	A	60	LYS	4
1	B	294	VAL	4
1	A	110	VAL	3
1	B	310	VAL	3
1	A	38	ASP	3
1	B	238	ASP	3
1	A	85	SER	3
1	B	321	ILE	3
1	B	203	THR	3
1	A	23	LEU	3
1	A	76	ASN	3
1	B	260	LYS	3
1	B	257	ASN	3
1	A	87	GLU	3
1	A	37	GLU	2
1	A	7	MET	2
1	A	82	PHE	2

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Mol	Chain	Res	Type	Models (Total)
1	B	282	PHE	2
1	B	243	GLU	2
1	B	284	VAL	2
1	B	285	SER	2
1	A	112	MET	2
1	B	312	MET	2
1	B	202	ASN	2
1	A	116	PHE	2
1	B	218	LEU	2
1	B	286	PHE	2
1	B	269	GLN	2
1	B	316	PHE	2
1	B	291	ARG	2
1	B	303	PHE	2
1	A	52	ARG	1
1	A	18	LEU	1
1	B	230	PHE	1
1	B	237	GLU	1
1	A	29	LEU	1
1	B	287	GLU	1
1	A	91	ARG	1
1	A	43	GLU	1
1	A	86	PHE	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.6 Ligand geometry ⓘ

2 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	NTH	A	126	-	27,30,30	2.97±0.02	1±0 (3±0%)
2	NTH	B	326	-	27,30,30	2.97±0.02	1±0 (3±0%)

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

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
2	NTH	A	126	-	42,45,45	2.44±0.01	3±0 (7±0%)
2	NTH	B	326	-	42,45,45	2.44±0.01	3±0 (7±0%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NTH	A	126	-	-	0±0,7,62,62	0±0,4,4,4
2	NTH	B	326	-	-	0±0,7,62,62	0±0,4,4,4

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	A	126	NTH	O17-C17	11.84	1.25	1.46	2	15
2	B	326	NTH	O17-C17	11.82	1.25	1.46	1	15

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

occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)	Models	
								Worst	Total
2	A	126	NTH	C18-C13-C14	8.39	127.61	111.73	7	15
2	B	326	NTH	C18-C13-C14	8.36	127.56	111.73	7	15
2	A	126	NTH	C16-C17-C13	6.74	112.39	105.19	8	15
2	B	326	NTH	C16-C17-C13	6.71	112.36	105.19	10	15
2	B	326	NTH	O17-C17-C16	5.40	124.47	110.99	8	15
2	A	126	NTH	O17-C17-C16	5.38	124.41	110.99	14	15

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided