



Full wwPDB NMR Structure Validation Report ⓘ

May 29, 2020 – 01:59 am BST

PDB ID : 2XDF
Title : Solution Structure of the Enzyme I Dimer Complexed with HPr Using Residual Dipolar Couplings and Small Angle X-Ray Scattering
Authors : Schwieters, C.D.; Suh, J.-Y.; Grishaev, A.; Guirlando, R.; Takayama, Y.; Clore, G.M.
Deposited on : 2010-04-30

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The 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
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
ShiftChecker : 2.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

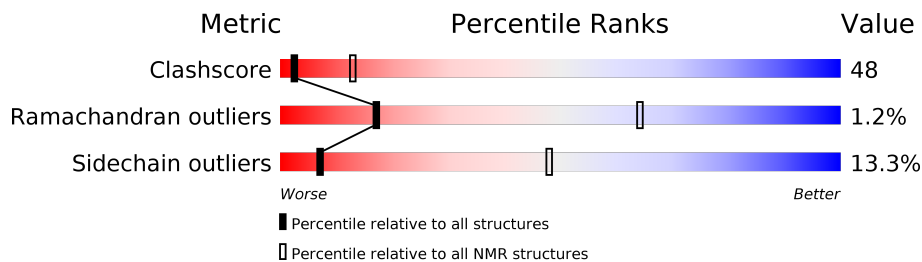
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

SOLUTION NMR, SOLUTION SCATTERING

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	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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

Mol	Chain	Length	Quality of chain
1	A	573	38% (green), 49% (yellow), 12% (orange)
1	B	573	37% (green), 51% (yellow), 12% (orange)
2	C	85	65% (green), 33% (yellow), .. (orange)
2	D	85	64% (green), 34% (yellow), .. (orange)

2 Ensemble composition and analysis

This entry contains 2 models. Identification of well-defined residues and clustering analysis are not possible.

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 20502 atoms, of which 10338 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called PHOSPHOENOLPYRUVATE-PROTEIN PHOSPHO-TRANSFERASE.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	A	573	8956	2790	4514	757	874	21	0
1	B	573	8956	2790	4514	757	874	21	0

- Molecule 2 is a protein called PHOSPHOCARRIER PROTEIN HPR.

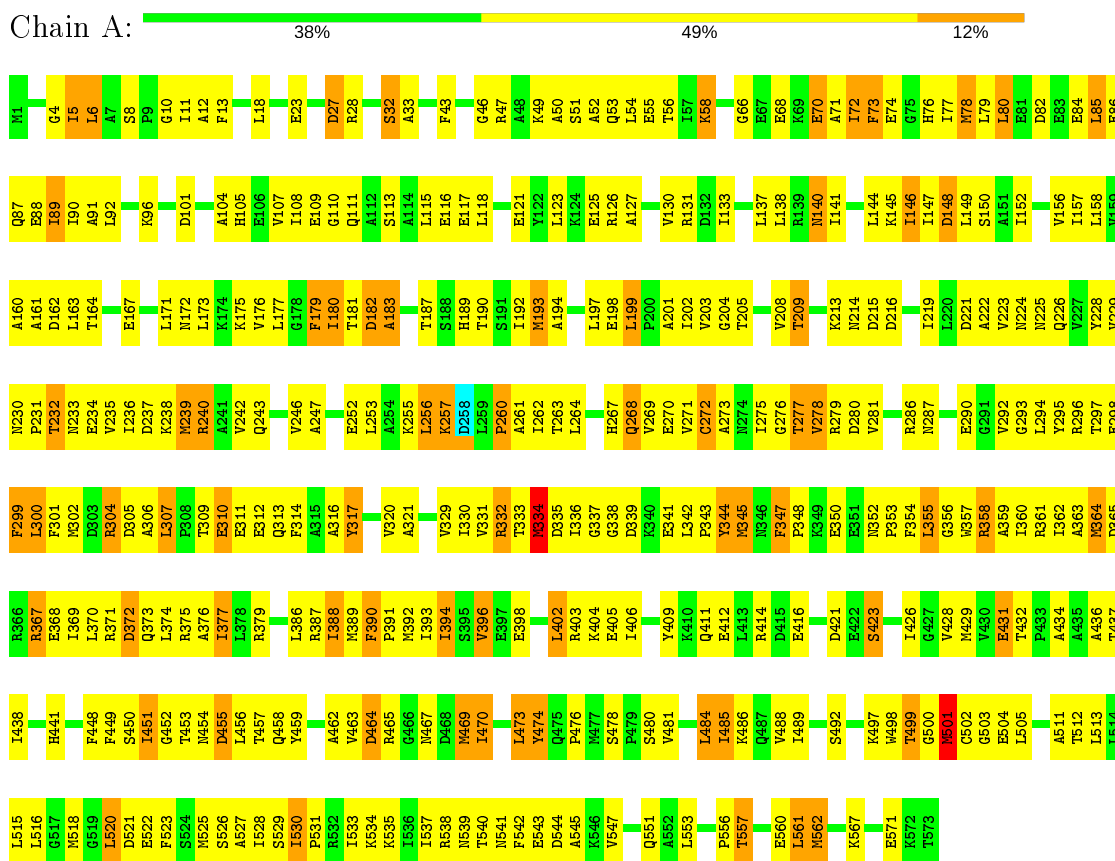
Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
2	C	85	1295	401	655	107	130	2	0
2	D	85	1295	401	655	107	130	2	0

4 Residue-property plots

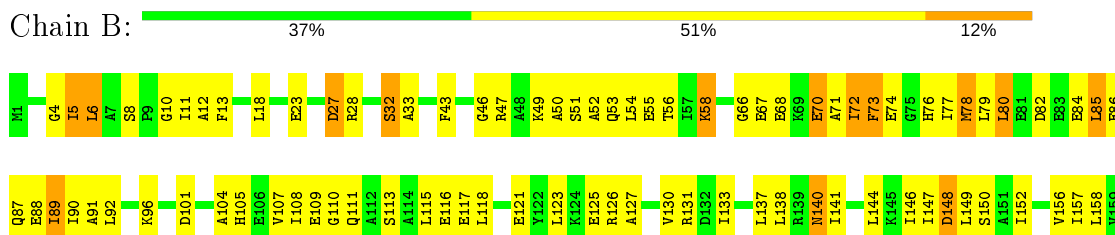
4.1 Average score per residue in the NMR ensemble

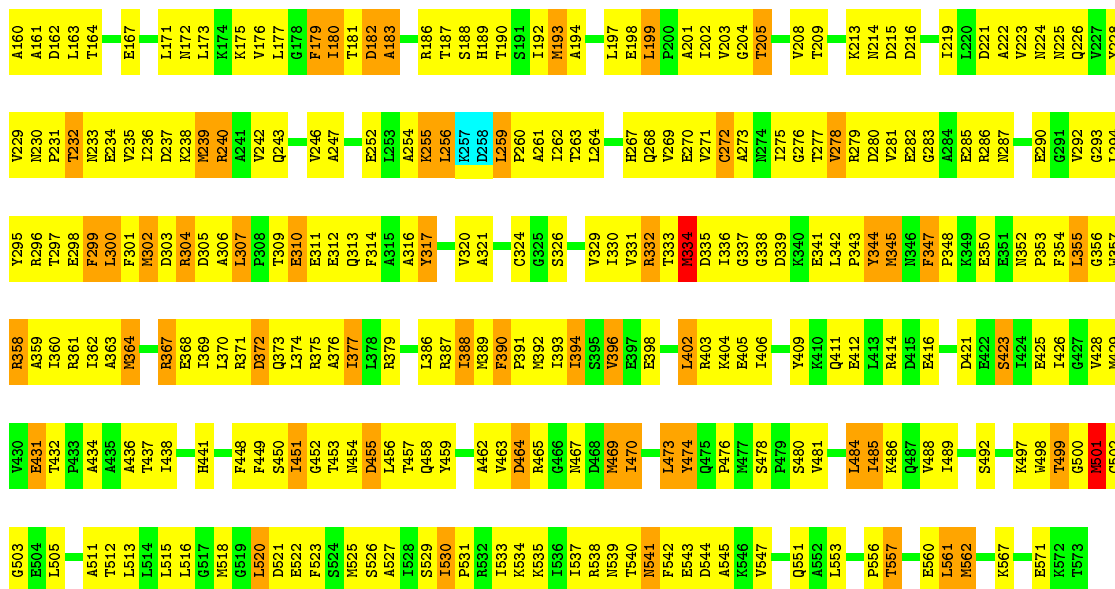
These plots are provided for all protein, RNA and DNA chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain 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: PHOSPHOENOLPYRUVATE-PROTEIN PHOSPHOTRANSFERASE



- Molecule 1: PHOSPHOENOLPYRUVATE-PROTEIN PHOSPHOTRANSFERASE





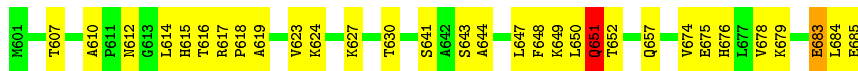
- Molecule 2: PHOSPHOCARRIER PROTEIN HPR

Chain C: 65% 33%



- Molecule 2: PHOSPHOCARRIER PROTEIN HPR

Chain D: 64% 34%



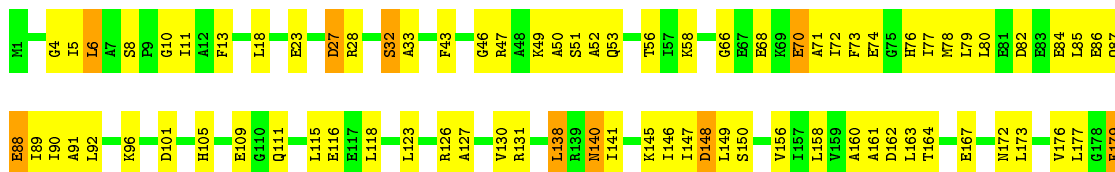
4.2 Scores per residue for each member of the ensemble

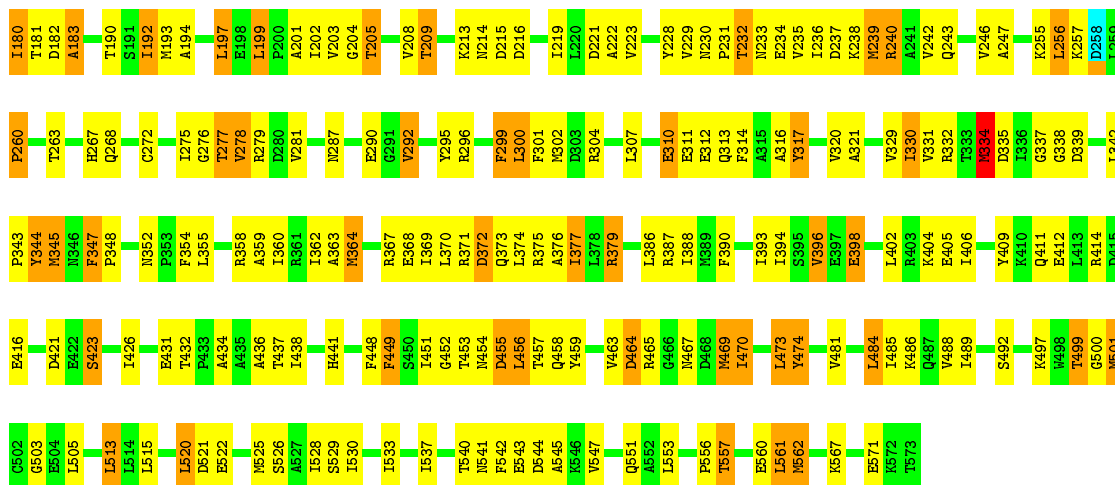
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: PHOSPHOENOLPYRUVATE-PROTEIN PHOSPHOTRANSFERASE

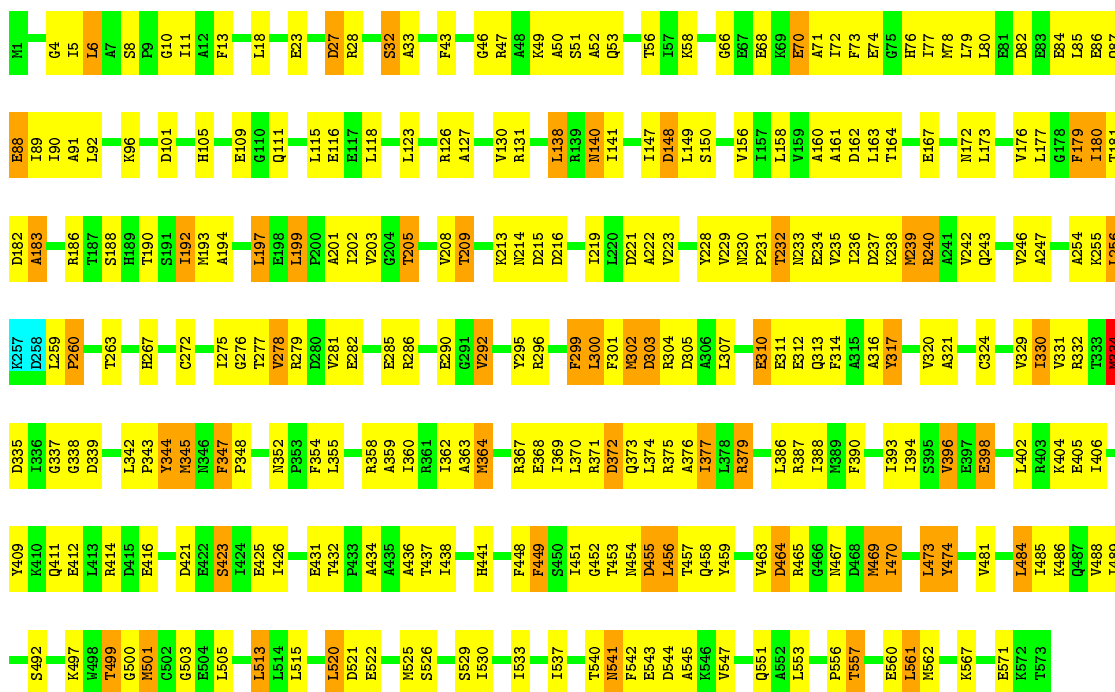
Chain A: 51% 39% 10%





• Molecule 1: PHOSPHOENOLPYRUVATE-PROTEIN PHOSPHOTRANSFERASE

Chain B: 50% 39% 10%



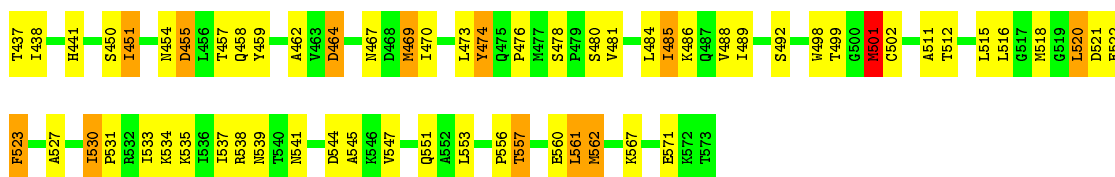
• Molecule 2: PHOSPHOCARRIER PROTEIN HPR

Chain C: 76% 21% 3%



• Molecule 2: PHOSPHOCARRIER PROTEIN HPR

Chain D: 78% 20% 2%



- Molecule 2: PHOSPHOCARRIER PROTEIN HPR

Chain C: 72% 25% ..



- Molecule 2: PHOSPHOCARRIER PROTEIN HPR

Chain D: 69% 28% ..



5 Refinement protocol and experimental data overview (i)

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

Of the 120 calculated structures, 2 were deposited, based on the following criterion: *BEST EXPERIMENT FIT, AND THEN LOWEST ENERGY*.

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

Software name	Classification	Version
Xplor-NIH	refinement	2.25
Xplor-NIH	structure solution	

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

COVALENT-GEOMETRY INFOmissingINFO

5.1 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	4434	4510	4502	486±7
1	B	4425	4497	4489	486±5
2	C	640	655	650	38±5
2	D	640	655	650	38±4
All	All	20278	20634	20582	1948

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 48.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:126:ARG:HH22	2:C:619:ALA:CB	1.61	1.04	1	1
1:B:126:ARG:HH22	2:D:619:ALA:CB	1.55	1.04	1	1
1:B:314:PHE:CE2	1:B:376:ALA:HA	1.49	1.41	1	1
1:A:314:PHE:CE2	1:A:376:ALA:HA	1.48	1.40	1	1
1:B:562:MET:SD	1:B:562:MET:CE	1.48	2.01	2	1
1:A:562:MET:CE	1:A:562:MET:SD	1.46	2.01	1	1
1:B:364:MET:SD	1:B:364:MET:CE	1.44	2.06	2	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:364:MET:CE	1:A:364:MET:SD	1.44	2.06	1	2
1:B:126:ARG:NH2	2:D:619:ALA:CB	1.39	1.84	1	1
1:A:276:GLY:HA2	1:A:299:PHE:CD2	1.37	1.54	1	1
1:B:78:MET:CE	2:D:627:LYS:HD2	1.36	1.47	1	1
1:B:276:GLY:HA2	1:B:299:PHE:CD2	1.36	1.55	1	1
1:A:469:MET:SD	1:A:469:MET:CE	1.36	2.14	2	1
1:B:469:MET:SD	1:B:469:MET:CE	1.36	2.13	1	1
1:B:469:MET:CE	1:B:469:MET:SD	1.36	2.13	2	1
1:A:126:ARG:NH2	2:C:619:ALA:CB	1.35	1.84	1	1
1:A:469:MET:CE	1:A:469:MET:SD	1.35	2.13	1	1
1:B:345:MET:SD	1:B:345:MET:CE	1.35	2.14	1	1
1:B:345:MET:CE	1:B:345:MET:SD	1.35	2.14	2	1
1:A:345:MET:SD	1:A:345:MET:CE	1.34	2.14	1	2
1:A:78:MET:CE	2:C:627:LYS:HD2	1.33	1.51	1	1
1:A:276:GLY:HA2	1:A:299:PHE:CE2	1.33	1.58	1	1
1:B:276:GLY:HA2	1:B:299:PHE:CE2	1.32	1.58	1	1
1:A:470:ILE:O	1:A:473:LEU:CD2	1.31	1.79	1	1
1:B:470:ILE:O	1:B:473:LEU:CD2	1.29	1.78	1	1
1:B:470:ILE:O	1:B:473:LEU:HD22	1.29	1.07	1	1
1:A:515:LEU:CA	1:A:520:LEU:HD21	1.28	1.58	2	1
1:B:515:LEU:CA	1:B:520:LEU:HD21	1.28	1.57	2	1
1:A:470:ILE:O	1:A:473:LEU:HD22	1.26	1.07	1	1
1:A:515:LEU:C	1:A:520:LEU:HD11	1.25	1.51	2	1
1:B:515:LEU:C	1:B:520:LEU:HD11	1.24	1.52	2	1
1:B:464:ASP:OD1	1:B:467:ASN:ND2	1.24	1.70	1	2
1:A:126:ARG:NH2	2:C:619:ALA:HB3	1.24	1.41	1	1
1:B:515:LEU:O	1:B:520:LEU:HG	1.24	1.30	2	1
1:A:515:LEU:O	1:A:520:LEU:HG	1.22	1.30	2	1
1:B:367:ARG:O	1:B:371:ARG:HG3	1.22	1.34	2	1
1:B:126:ARG:NH2	2:D:619:ALA:HB3	1.22	1.41	1	1
1:A:276:GLY:O	1:A:299:PHE:CD1	1.22	1.91	1	1
1:B:276:GLY:O	1:B:299:PHE:CD1	1.22	1.92	1	1
1:B:111:GLN:OE1	2:D:648:PHE:HB3	1.22	1.33	1	1
1:A:464:ASP:OD1	1:A:467:ASN:ND2	1.21	1.71	1	2
1:A:314:PHE:CE2	1:A:376:ALA:CA	1.21	2.23	1	1
1:A:449:PHE:CE2	1:A:499:THR:OG1	1.21	1.87	1	1
1:B:449:PHE:CE2	1:B:500:GLY:O	1.20	1.95	1	1
1:B:449:PHE:CE2	1:B:499:THR:OG1	1.20	1.87	1	1
1:A:431:GLU:HG3	1:A:452:GLY:O	1.20	1.34	1	1
1:B:314:PHE:CE2	1:B:376:ALA:CA	1.20	2.23	1	1
1:A:515:LEU:O	1:A:520:LEU:CG	1.19	1.90	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:272:CYS:SG	1:B:293:GLY:N	1.19	2.16	2	1
1:B:515:LEU:O	1:B:520:LEU:CG	1.18	1.90	2	1
1:A:449:PHE:CE2	1:A:500:GLY:O	1.18	1.94	1	1
1:A:272:CYS:SG	1:A:293:GLY:N	1.18	2.15	2	1
1:B:527:ALA:O	1:B:530:ILE:CG2	1.18	1.92	2	1
1:A:527:ALA:O	1:A:530:ILE:CG2	1.17	1.93	2	1
1:A:367:ARG:O	1:A:371:ARG:HG3	1.17	1.34	2	1
1:A:111:GLN:OE1	2:C:648:PHE:HB3	1.17	1.34	1	1
1:B:431:GLU:HG3	1:B:452:GLY:O	1.17	1.34	1	1
1:B:456:LEU:HD13	1:B:457:THR:N	1.13	1.59	1	1
1:B:314:PHE:CZ	1:B:376:ALA:HA	1.12	1.78	1	1
1:B:78:MET:CE	2:D:627:LYS:CD	1.12	2.28	1	1
1:A:314:PHE:CZ	1:A:376:ALA:HA	1.11	1.79	1	1
1:A:456:LEU:HD13	1:A:457:THR:N	1.11	1.59	1	1
1:B:463:VAL:HG11	1:B:473:LEU:HG	1.10	1.20	1	1
1:B:243:GLN:O	1:B:246:VAL:HG22	1.10	1.47	1	1
1:A:314:PHE:CD2	1:A:376:ALA:HA	1.09	1.81	1	1
1:A:243:GLN:O	1:A:246:VAL:HG22	1.09	1.47	1	1
1:B:314:PHE:CD2	1:B:376:ALA:HA	1.09	1.81	1	1
1:A:296:ARG:O	1:A:299:PHE:CE2	1.08	2.06	1	1
1:A:78:MET:HE1	2:C:627:LYS:HD2	1.08	1.18	1	1
1:A:78:MET:CE	2:C:627:LYS:CD	1.08	2.32	1	1
1:A:463:VAL:HG11	1:A:473:LEU:HG	1.07	1.20	1	1
1:B:296:ARG:O	1:B:299:PHE:CE2	1.07	2.07	1	1
1:A:464:ASP:OD1	1:B:355:LEU:O	1.06	1.72	1	2
1:B:78:MET:HE1	2:D:627:LYS:CD	1.06	1.77	1	1
1:A:360:ILE:HD12	1:A:391:PRO:O	1.05	1.52	2	1
1:B:360:ILE:HD12	1:B:391:PRO:O	1.04	1.53	2	1
1:A:515:LEU:C	1:A:520:LEU:CD1	1.03	2.27	2	1
1:A:296:ARG:O	1:A:299:PHE:CD2	1.03	2.12	1	1
1:A:527:ALA:O	1:A:530:ILE:HG22	1.02	1.48	2	1
1:B:269:VAL:HG11	1:B:523:PHE:CE2	1.02	1.88	2	1
1:A:269:VAL:HG11	1:A:523:PHE:CE2	1.02	1.88	2	1
1:A:276:GLY:CA	1:A:299:PHE:CD2	1.02	2.42	1	1
1:B:296:ARG:O	1:B:299:PHE:CD2	1.02	2.12	1	1
1:B:527:ALA:O	1:B:530:ILE:HG22	1.02	1.50	2	1
1:B:276:GLY:CA	1:B:299:PHE:CD2	1.02	2.42	1	1
1:B:296:ARG:O	1:B:299:PHE:CZ	1.02	2.13	1	1
1:B:367:ARG:O	1:B:371:ARG:CG	1.01	2.08	2	1
1:B:275:ILE:O	1:B:299:PHE:CE2	1.01	2.12	1	1
1:B:515:LEU:C	1:B:520:LEU:CD1	1.01	2.28	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:126:ARG:HH22	2:C:619:ALA:HB2	1.01	1.07	1	1
1:A:331:VAL:HG12	1:A:387:ARG:O	1.01	1.55	1	1
1:B:331:VAL:HG12	1:B:387:ARG:O	1.01	1.55	1	1
1:B:126:ARG:HH22	2:D:619:ALA:HB2	1.01	1.07	1	1
1:A:355:LEU:O	1:B:464:ASP:OD1	1.01	1.78	1	2
1:A:296:ARG:O	1:A:299:PHE:CZ	1.00	2.14	1	1
1:B:449:PHE:O	1:B:449:PHE:CD2	1.00	2.13	1	1
1:A:449:PHE:CD2	1:A:449:PHE:O	1.00	2.13	1	1
1:A:367:ARG:O	1:A:371:ARG:CG	1.00	2.08	2	1
1:B:232:THR:HG22	1:B:233:ASN:N	1.00	1.70	2	2
1:A:221:ASP:HA	1:A:239:MET:CE	1.00	1.87	1	2
1:B:232:THR:CG2	1:B:233:ASN:H	1.00	1.69	2	2
1:A:275:ILE:O	1:A:299:PHE:CE2	1.00	2.13	1	1
1:B:541:ASN:O	1:B:544:ASP:OD1	1.00	1.80	2	2
1:B:515:LEU:HA	1:B:520:LEU:HD21	0.99	1.02	2	1
1:A:232:THR:CG2	1:A:233:ASN:H	0.99	1.69	2	2
1:A:232:THR:HG22	1:A:233:ASN:N	0.99	1.71	1	2
1:B:221:ASP:HA	1:B:239:MET:CE	0.99	1.87	2	2
1:A:11:ILE:HD13	1:A:221:ASP:O	0.99	1.57	2	2
1:A:541:ASN:O	1:A:544:ASP:OD1	0.99	1.79	1	2
1:A:449:PHE:CZ	1:A:451:ILE:HB	0.99	1.93	1	1
1:A:232:THR:CG2	1:A:233:ASN:N	0.98	2.26	2	2
1:B:449:PHE:CZ	1:B:451:ILE:HB	0.98	1.93	1	1
1:A:515:LEU:HA	1:A:520:LEU:HD21	0.98	1.02	2	1
1:A:314:PHE:CE2	1:A:379:ARG:CB	0.98	2.46	1	1
1:B:11:ILE:HD13	1:B:221:ASP:O	0.98	1.57	2	2
1:A:78:MET:HE2	2:C:627:LYS:CD	0.98	1.88	1	1
1:B:314:PHE:CE2	1:B:379:ARG:CB	0.98	2.46	1	1
1:A:221:ASP:OD2	1:A:225:ASN:N	0.97	1.98	2	1
1:A:276:GLY:O	1:A:299:PHE:CE1	0.96	2.18	1	1
1:B:221:ASP:OD2	1:B:225:ASN:N	0.96	1.99	2	1
1:A:78:MET:HE2	2:C:627:LYS:HD2	0.96	1.36	1	1
1:B:533:ILE:O	1:B:537:ILE:HG23	0.95	1.61	2	1
1:B:232:THR:CG2	1:B:233:ASN:N	0.94	2.26	1	2
1:B:276:GLY:O	1:B:299:PHE:CE1	0.94	2.19	1	1
1:A:276:GLY:CA	1:A:299:PHE:CE2	0.94	2.51	1	1
1:B:515:LEU:CA	1:B:520:LEU:CD2	0.93	2.46	2	1
1:A:104:ALA:O	1:A:107:VAL:HG22	0.93	1.63	2	1
1:B:276:GLY:CA	1:B:299:PHE:CE2	0.93	2.51	1	1
1:B:292:VAL:CG1	1:B:329:VAL:HG22	0.93	1.94	1	1
1:B:314:PHE:CE2	1:B:379:ARG:HB2	0.93	1.99	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:292:VAL:CG1	1:A:329:VAL:HG22	0.93	1.93	1	1
1:A:533:ILE:O	1:A:537:ILE:HG23	0.92	1.61	2	1
1:A:314:PHE:CE2	1:A:379:ARG:HB2	0.92	1.99	1	1
1:A:515:LEU:CA	1:A:520:LEU:CD2	0.92	2.47	2	1
1:A:449:PHE:HE2	1:A:500:GLY:O	0.92	1.45	1	1
1:B:359:ALA:O	1:B:362:ILE:HG22	0.92	1.65	1	2
1:A:242:VAL:O	1:A:246:VAL:HG13	0.92	1.64	1	1
1:B:104:ALA:O	1:B:107:VAL:HG22	0.91	1.64	2	1
1:A:292:VAL:HG21	1:A:329:VAL:HG13	0.91	1.40	1	1
1:B:292:VAL:HG21	1:B:329:VAL:HG13	0.91	1.40	1	1
1:B:78:MET:HE1	2:D:627:LYS:HD2	0.91	0.94	1	1
1:B:449:PHE:O	1:B:449:PHE:HD2	0.91	1.48	1	1
1:B:54:LEU:HD12	1:B:55:GLU:N	0.91	1.81	2	1
1:B:242:VAL:O	1:B:246:VAL:HG13	0.90	1.64	1	1
1:A:464:ASP:CG	1:B:355:LEU:O	0.90	2.08	1	2
1:B:299:PHE:HD1	1:B:300:LEU:N	0.90	1.64	1	1
1:A:360:ILE:CD1	1:A:391:PRO:O	0.90	2.20	2	1
1:B:516:LEU:N	1:B:520:LEU:HD11	0.90	1.82	2	1
1:A:299:PHE:HD1	1:A:300:LEU:N	0.90	1.63	1	1
1:B:449:PHE:C	1:B:449:PHE:CD2	0.89	2.44	1	1
1:A:516:LEU:N	1:A:520:LEU:HD11	0.89	1.81	2	1
1:A:489:ILE:HA	1:A:499:THR:HG21	0.89	1.44	1	1
1:A:359:ALA:O	1:A:362:ILE:HG22	0.89	1.65	1	2
1:B:301:PHE:CG	1:B:342:LEU:HD22	0.89	2.03	2	1
1:A:269:VAL:HG13	1:A:521:ASP:O	0.89	1.66	2	1
1:B:269:VAL:HG13	1:B:521:ASP:O	0.89	1.66	2	1
1:A:54:LEU:HD12	1:A:55:GLU:N	0.88	1.81	2	1
1:A:449:PHE:HD2	1:A:449:PHE:O	0.88	1.48	1	1
1:B:449:PHE:HE2	1:B:500:GLY:O	0.88	1.45	1	1
1:A:301:PHE:CG	1:A:342:LEU:HD22	0.88	2.04	2	1
1:A:292:VAL:CG2	1:A:329:VAL:HG13	0.88	1.98	1	1
1:A:296:ARG:O	1:A:299:PHE:CE1	0.88	2.27	1	1
1:A:449:PHE:CD2	1:A:449:PHE:C	0.87	2.44	1	1
1:B:292:VAL:CG2	1:B:329:VAL:HG13	0.87	1.98	1	1
1:A:275:ILE:O	1:A:299:PHE:HE2	0.87	1.47	1	1
1:B:296:ARG:O	1:B:299:PHE:CE1	0.87	2.26	1	1
1:B:489:ILE:HG12	1:B:499:THR:HG21	0.87	1.44	2	1
1:B:360:ILE:CD1	1:B:391:PRO:O	0.87	2.22	2	1
1:B:263:THR:HG22	1:B:267:HIS:H	0.87	1.30	1	1
1:A:489:ILE:HG12	1:A:499:THR:HG21	0.86	1.44	2	1
1:B:431:GLU:HG2	1:B:455:ASP:CB	0.86	1.99	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:296:ARG:O	1:A:299:PHE:CG	0.86	2.28	1	1
1:A:12:ALA:HB1	1:A:177:LEU:HD13	0.86	1.47	2	1
1:A:175:LYS:CD	1:A:175:LYS:C	0.86	2.42	2	1
1:B:12:ALA:HB1	1:B:177:LEU:HD13	0.86	1.47	2	1
1:B:296:ARG:O	1:B:299:PHE:CG	0.86	2.28	1	1
1:A:269:VAL:HG11	1:A:523:PHE:CZ	0.86	2.06	2	1
1:B:489:ILE:HA	1:B:499:THR:HG21	0.86	1.44	1	1
1:B:515:LEU:HA	1:B:520:LEU:CD2	0.86	1.98	2	1
1:B:175:LYS:C	1:B:175:LYS:CD	0.86	2.43	2	1
1:B:269:VAL:HG11	1:B:523:PHE:CZ	0.86	2.06	2	1
1:A:221:ASP:CG	1:A:226:GLN:H	0.85	1.74	2	1
1:B:221:ASP:CG	1:B:226:GLN:H	0.85	1.74	2	1
1:A:431:GLU:HG2	1:A:455:ASP:CB	0.85	2.00	1	1
1:B:275:ILE:O	1:B:299:PHE:HE2	0.85	1.47	1	1
1:A:228:TYR:HB3	1:A:231:PRO:HG3	0.85	1.45	2	2
1:A:221:ASP:HA	1:A:239:MET:HE1	0.85	1.46	2	2
1:A:515:LEU:HB3	1:A:520:LEU:CD1	0.85	2.01	2	1
1:B:228:TYR:HB3	1:B:231:PRO:HG3	0.85	1.46	2	2
1:A:263:THR:HG22	1:A:267:HIS:H	0.85	1.30	1	1
1:B:50:ALA:O	1:B:54:LEU:HG	0.85	1.70	2	1
1:A:50:ALA:O	1:A:54:LEU:HG	0.85	1.70	2	1
1:B:115:LEU:HD11	2:D:651:GLN:HB3	0.85	1.48	2	1
1:B:544:ASP:OD1	1:B:545:ALA:N	0.85	2.10	2	2
1:B:527:ALA:O	1:B:530:ILE:HG23	0.85	1.69	2	1
1:A:544:ASP:OD1	1:A:545:ALA:N	0.85	2.10	2	2
1:A:115:LEU:HD11	2:C:651:GLN:HB3	0.84	1.48	2	1
1:B:278:VAL:O	1:B:281:VAL:HG22	0.84	1.73	2	1
1:B:51:SER:HA	1:B:54:LEU:HD21	0.84	1.49	2	1
1:B:515:LEU:HB3	1:B:520:LEU:CD1	0.84	2.01	2	1
1:A:302:MET:HB2	1:A:342:LEU:HD21	0.83	1.49	1	1
1:B:449:PHE:CD2	1:B:499:THR:CB	0.83	2.60	1	1
1:A:449:PHE:CD2	1:A:499:THR:CB	0.83	2.60	1	1
1:A:337:GLY:O	1:A:358:ARG:CZ	0.83	2.27	2	1
1:B:337:GLY:O	1:B:358:ARG:CZ	0.83	2.27	2	1
1:B:314:PHE:CZ	1:B:376:ALA:CA	0.83	2.56	1	1
1:A:336:ILE:HD12	1:A:336:ILE:H	0.83	1.34	2	1
1:A:372:ASP:OD1	1:A:372:ASP:C	0.83	2.17	2	1
1:A:314:PHE:CE2	1:A:379:ARG:HB3	0.83	2.09	1	1
1:A:304:ARG:O	1:A:344:TYR:CZ	0.83	2.32	1	1
1:B:314:PHE:CE2	1:B:379:ARG:HB3	0.83	2.08	1	1
1:A:355:LEU:O	1:B:464:ASP:CG	0.82	2.17	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:304:ARG:O	1:B:344:TYR:CZ	0.82	2.32	1	1
1:B:394:ILE:HD13	1:B:394:ILE:H	0.82	1.33	2	1
1:A:51:SER:HA	1:A:54:LEU:HD21	0.82	1.49	2	1
1:B:177:LEU:H	1:B:177:LEU:HD12	0.82	1.35	1	1
1:A:394:ILE:HD13	1:A:394:ILE:H	0.82	1.34	2	1
1:B:463:VAL:CG1	1:B:473:LEU:HG	0.81	2.04	1	1
1:B:372:ASP:OD1	1:B:372:ASP:C	0.81	2.17	2	1
1:A:177:LEU:H	1:A:177:LEU:HD12	0.81	1.34	1	1
1:A:474:TYR:CG	1:A:474:TYR:O	0.81	2.34	2	2
1:B:360:ILE:HD13	1:B:390:PHE:CD2	0.81	2.10	2	1
1:B:296:ARG:O	1:B:299:PHE:CD1	0.81	2.32	1	1
1:A:556:PRO:HB3	1:B:441:HIS:ND1	0.81	1.89	2	2
1:A:314:PHE:CZ	1:A:376:ALA:CA	0.81	2.56	1	1
1:B:449:PHE:CD2	1:B:499:THR:CA	0.81	2.63	1	1
1:A:356:GLY:O	1:A:358:ARG:HG2	0.81	1.75	2	1
1:A:527:ALA:O	1:A:530:ILE:HG23	0.81	1.72	2	1
1:B:78:MET:HE2	2:D:627:LYS:CD	0.81	2.01	1	1
1:B:534:LYS:O	1:B:537:ILE:HG13	0.81	1.76	2	1
1:A:449:PHE:CD2	1:A:499:THR:CA	0.81	2.63	1	1
1:B:221:ASP:HA	1:B:239:MET:HE1	0.81	1.52	2	2
1:A:463:VAL:CG1	1:A:473:LEU:HG	0.80	2.04	1	1
1:A:126:ARG:HD3	2:C:616:THR:OG1	0.80	1.76	2	1
1:A:296:ARG:O	1:A:299:PHE:CD1	0.80	2.34	1	1
1:B:464:ASP:N	1:B:464:ASP:OD1	0.80	2.15	1	1
1:B:356:GLY:O	1:B:358:ARG:HG2	0.80	1.74	2	1
1:A:299:PHE:CD1	1:A:300:LEU:N	0.80	2.49	1	1
1:B:456:LEU:HD11	1:B:481:VAL:CG1	0.80	2.07	1	1
1:B:449:PHE:CD2	1:B:499:THR:HA	0.80	2.11	1	1
1:B:177:LEU:O	1:B:177:LEU:HD12	0.80	1.77	2	1
1:A:177:LEU:HD12	1:A:177:LEU:O	0.80	1.77	2	1
1:B:474:TYR:O	1:B:474:TYR:CG	0.80	2.34	2	1
1:A:78:MET:HE1	2:C:627:LYS:CD	0.80	1.98	1	1
1:B:388:ILE:HD12	1:B:389:MET:N	0.80	1.92	2	1
1:A:74:GLU:OE1	2:C:624:LYS:NZ	0.80	2.15	1	1
1:B:336:ILE:HD12	1:B:336:ILE:H	0.80	1.34	2	1
1:A:175:LYS:C	1:A:175:LYS:HD3	0.79	1.97	2	1
1:B:175:LYS:C	1:B:175:LYS:HD3	0.79	1.96	2	1
1:B:515:LEU:C	1:B:520:LEU:CG	0.79	2.50	2	1
1:A:199:LEU:HD23	1:A:199:LEU:O	0.79	1.78	1	1
1:A:205:THR:OG1	1:A:208:VAL:HG22	0.79	1.76	1	1
1:A:449:PHE:CD2	1:A:499:THR:HA	0.79	2.11	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:126:ARG:HD3	2:D:616:THR:OG1	0.79	1.77	2	1
1:A:360:ILE:HD13	1:A:390:PHE:CD2	0.79	2.11	2	1
1:A:534:LYS:O	1:A:537:ILE:HG13	0.79	1.76	2	1
1:A:515:LEU:C	1:A:520:LEU:CG	0.79	2.50	2	1
1:A:431:GLU:HG2	1:A:455:ASP:HB3	0.79	1.54	1	1
1:B:199:LEU:HD23	1:B:199:LEU:O	0.79	1.78	1	1
1:B:299:PHE:CD1	1:B:300:LEU:N	0.79	2.50	1	1
1:B:74:GLU:OE1	2:D:624:LYS:NZ	0.78	2.16	1	1
1:A:456:LEU:HD11	1:A:481:VAL:CG1	0.78	2.07	1	1
1:B:431:GLU:HG2	1:B:455:ASP:HB3	0.78	1.53	1	1
1:B:449:PHE:CD1	1:B:488:VAL:HG11	0.78	2.14	1	1
1:A:302:MET:SD	1:A:342:LEU:HG	0.78	2.19	2	1
1:A:438:ILE:CG2	1:A:441:HIS:HB2	0.78	2.09	2	1
1:A:353:PRO:O	1:A:358:ARG:CD	0.78	2.32	2	1
1:A:301:PHE:CD2	1:A:342:LEU:HD22	0.78	2.14	2	1
1:A:350:GLU:N	1:A:350:GLU:CD	0.78	2.37	2	1
1:A:388:ILE:HD12	1:A:389:MET:N	0.78	1.94	2	1
1:B:438:ILE:CG2	1:B:441:HIS:HB2	0.78	2.08	2	1
1:A:449:PHE:CD1	1:A:488:VAL:HG11	0.78	2.14	1	1
1:B:205:THR:OG1	1:B:208:VAL:HG22	0.78	1.78	1	1
1:A:11:ILE:CD1	1:A:221:ASP:O	0.78	2.32	2	2
1:A:160:ALA:O	1:A:181:THR:HG23	0.78	1.79	1	1
1:A:515:LEU:HA	1:A:520:LEU:CD2	0.77	1.98	2	1
1:B:353:PRO:O	1:B:358:ARG:CD	0.77	2.32	2	1
1:B:13:PHE:CZ	1:B:240:ARG:HD2	0.77	2.15	2	2
1:B:515:LEU:O	1:B:520:LEU:CD1	0.77	2.31	2	1
1:B:11:ILE:CD1	1:B:221:ASP:O	0.77	2.33	2	2
1:B:350:GLU:N	1:B:350:GLU:CD	0.77	2.37	2	1
1:B:476:PRO:O	1:B:481:VAL:CG2	0.77	2.33	2	1
1:B:50:ALA:O	1:B:54:LEU:CG	0.77	2.33	2	1
1:B:160:ALA:O	1:B:181:THR:HG23	0.77	1.79	1	1
1:B:402:LEU:HD13	1:B:403:ARG:N	0.76	1.96	2	1
1:A:476:PRO:O	1:A:481:VAL:CG2	0.76	2.33	2	1
1:A:50:ALA:O	1:A:54:LEU:CG	0.76	2.33	2	1
1:B:175:LYS:HD3	1:B:176:VAL:N	0.76	1.96	2	1
1:B:221:ASP:HA	1:B:239:MET:HE2	0.76	1.55	1	2
1:B:301:PHE:CD2	1:B:342:LEU:HD22	0.76	2.14	2	1
1:A:13:PHE:CZ	1:A:240:ARG:HD2	0.76	2.15	1	2
1:B:79:LEU:HD13	2:D:647:LEU:HB3	0.76	1.56	1	2
1:A:317:TYR:OH	1:A:331:VAL:HB	0.76	1.80	1	1
1:B:337:GLY:O	1:B:358:ARG:NE	0.76	2.19	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:307:LEU:HD23	1:A:307:LEU:O	0.76	1.80	2	1
1:B:115:LEU:CD1	2:D:651:GLN:HB3	0.76	2.09	2	1
1:A:79:LEU:HD13	2:C:647:LEU:HB3	0.76	1.56	1	2
1:A:314:PHE:CD2	1:A:376:ALA:CA	0.76	2.61	1	1
1:B:314:PHE:CD2	1:B:376:ALA:CA	0.76	2.61	1	1
1:A:402:LEU:HD13	1:A:403:ARG:N	0.76	1.96	2	1
1:A:115:LEU:CD1	2:C:651:GLN:HB3	0.76	2.09	2	1
1:A:111:GLN:CD	2:C:648:PHE:HB3	0.76	2.01	1	2
1:A:449:PHE:CE2	1:A:499:THR:CB	0.75	2.70	1	1
1:A:278:VAL:O	1:A:281:VAL:HG22	0.75	1.80	2	1
1:A:449:PHE:HD2	1:A:499:THR:HA	0.75	1.42	1	1
1:B:431:GLU:CG	1:B:452:GLY:O	0.75	2.28	1	1
1:A:292:VAL:HG11	1:A:329:VAL:HG22	0.75	1.58	1	1
1:B:307:LEU:HD23	1:B:307:LEU:O	0.75	1.81	2	1
1:B:454:ASN:O	1:B:457:THR:HG22	0.75	1.82	2	1
1:B:296:ARG:N	1:B:299:PHE:CE2	0.75	2.55	1	1
1:B:449:PHE:CE2	1:B:499:THR:CB	0.75	2.69	1	1
1:B:304:ARG:NH1	1:B:342:LEU:HD23	0.75	1.97	2	1
1:A:449:PHE:CE1	1:A:451:ILE:HB	0.75	2.16	1	1
1:A:337:GLY:O	1:A:358:ARG:NE	0.75	2.19	2	1
1:A:515:LEU:O	1:A:520:LEU:CD1	0.75	2.30	2	1
1:B:162:ASP:HA	1:B:181:THR:HG21	0.75	1.57	1	1
1:B:449:PHE:CE1	1:B:451:ILE:HB	0.75	2.16	1	1
1:B:111:GLN:CD	2:D:648:PHE:HB3	0.74	2.01	1	2
1:B:317:TYR:OH	1:B:331:VAL:HB	0.74	1.82	1	1
1:A:464:ASP:N	1:A:464:ASP:OD1	0.74	2.14	1	2
1:A:454:ASN:O	1:A:457:THR:HG22	0.74	1.82	2	1
1:A:301:PHE:O	1:A:304:ARG:CD	0.74	2.36	2	1
1:B:362:ILE:CG2	1:B:363:ALA:N	0.74	2.50	2	2
1:A:162:ASP:HA	1:A:181:THR:HG21	0.74	1.57	1	1
1:B:449:PHE:HD2	1:B:499:THR:HA	0.74	1.42	1	1
1:A:175:LYS:HD3	1:A:176:VAL:N	0.74	1.96	2	1
1:A:449:PHE:CD1	1:A:488:VAL:CG1	0.74	2.71	1	1
1:B:292:VAL:HG11	1:B:329:VAL:HG22	0.74	1.59	1	1
1:A:296:ARG:N	1:A:299:PHE:CE2	0.73	2.55	1	1
1:A:362:ILE:CG2	1:A:363:ALA:N	0.73	2.50	2	2
1:A:512:THR:O	1:A:516:LEU:HG	0.73	1.83	2	1
1:B:126:ARG:HH11	2:D:651:GLN:NE2	0.73	1.81	2	1
1:A:314:PHE:CD2	1:A:376:ALA:O	0.73	2.40	1	1
1:A:463:VAL:HG21	1:A:473:LEU:CD2	0.73	2.12	1	1
1:B:314:PHE:CD2	1:B:376:ALA:O	0.73	2.40	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:449:PHE:CD1	1:B:488:VAL:CG1	0.73	2.71	1	1
1:B:272:CYS:SG	1:B:293:GLY:CA	0.73	2.76	2	1
1:A:317:TYR:CZ	1:A:331:VAL:HB	0.73	2.18	1	1
1:B:263:THR:OG1	1:B:540:THR:HG23	0.73	1.84	1	1
1:A:272:CYS:SG	1:A:273:ALA:N	0.73	2.62	2	1
1:B:353:PRO:O	1:B:358:ARG:HD3	0.73	1.84	2	1
1:A:10:GLY:O	1:A:11:ILE:HD13	0.73	1.82	1	2
1:B:362:ILE:HG23	1:B:363:ALA:N	0.73	1.99	1	2
1:A:221:ASP:HA	1:A:239:MET:HE2	0.73	1.58	1	2
1:B:232:THR:O	1:B:236:ILE:HG13	0.73	1.84	2	2
1:B:228:TYR:CD2	1:B:235:VAL:HG11	0.73	2.19	1	2
1:A:228:TYR:CD2	1:A:235:VAL:HG11	0.73	2.19	2	2
1:A:272:CYS:SG	1:A:293:GLY:CA	0.73	2.76	2	1
1:B:512:THR:O	1:B:516:LEU:HG	0.73	1.83	2	1
1:B:317:TYR:CZ	1:B:331:VAL:HB	0.73	2.19	1	1
1:B:485:ILE:HD11	1:B:501:MET:SD	0.72	2.24	2	1
1:B:74:GLU:HA	1:B:77:ILE:CG2	0.72	2.14	2	1
1:A:304:ARG:O	1:A:344:TYR:CE1	0.72	2.42	1	1
1:B:456:LEU:O	1:B:456:LEU:HD22	0.72	1.84	1	1
1:A:232:THR:O	1:A:236:ILE:HG13	0.72	1.84	1	2
1:B:530:ILE:O	1:B:530:ILE:HD12	0.72	1.84	2	1
1:A:485:ILE:HD11	1:A:501:MET:SD	0.72	2.24	2	1
1:A:434:ALA:O	1:A:437:THR:OG1	0.72	2.07	1	1
1:B:179:PHE:CZ	1:B:181:THR:OG1	0.72	2.40	1	1
1:B:302:MET:HB2	1:B:342:LEU:HD21	0.72	1.60	1	1
1:A:126:ARG:HD3	2:C:651:GLN:CG	0.72	2.14	1	1
1:A:456:LEU:O	1:A:456:LEU:HD22	0.72	1.84	1	1
1:A:441:HIS:ND1	1:B:556:PRO:HB3	0.72	1.99	2	2
1:B:463:VAL:HG21	1:B:473:LEU:CD2	0.72	2.14	1	1
1:B:10:GLY:O	1:B:11:ILE:HD13	0.72	1.85	1	2
1:A:353:PRO:O	1:A:358:ARG:HD3	0.72	1.84	2	1
1:A:74:GLU:HA	1:A:77:ILE:CG2	0.72	2.14	2	1
1:B:219:ILE:HD11	1:B:236:ILE:HG12	0.72	1.62	2	2
1:B:272:CYS:SG	1:B:273:ALA:N	0.72	2.62	2	1
1:B:80:LEU:HD13	1:B:80:LEU:O	0.72	1.84	2	1
1:B:228:TYR:CB	1:B:231:PRO:HG3	0.72	2.14	1	2
1:A:263:THR:OG1	1:A:540:THR:HG23	0.72	1.84	1	1
1:B:434:ALA:O	1:B:437:THR:OG1	0.72	2.07	1	1
1:A:80:LEU:HD13	1:A:80:LEU:O	0.72	1.84	2	1
1:A:228:TYR:CB	1:A:231:PRO:HG3	0.71	2.14	2	2
1:A:456:LEU:CD1	1:A:457:THR:N	0.71	2.50	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:126:ARG:HD3	2:D:651:GLN:CG	0.71	2.14	1	1
1:A:428:VAL:HG12	1:A:429:MET:O	0.71	1.85	2	1
1:B:304:ARG:O	1:B:344:TYR:CE1	0.71	2.43	1	1
1:B:456:LEU:CD1	1:B:457:THR:N	0.71	2.50	1	1
1:A:362:ILE:HG23	1:A:363:ALA:N	0.71	1.99	1	2
1:A:354:PHE:H	1:B:352:ASN:HD21	0.71	1.27	1	2
1:A:294:LEU:HD11	1:A:332:ARG:NH2	0.71	2.00	2	1
1:A:530:ILE:HD12	1:A:530:ILE:O	0.71	1.85	2	1
1:A:314:PHE:CE2	1:A:376:ALA:C	0.71	2.63	1	1
1:B:314:PHE:CE2	1:B:376:ALA:C	0.71	2.63	1	1
1:A:476:PRO:O	1:A:481:VAL:HG21	0.71	1.85	2	1
1:A:177:LEU:HD12	1:A:177:LEU:C	0.71	2.06	2	1
1:A:431:GLU:CG	1:A:452:GLY:O	0.71	2.28	1	1
1:B:428:VAL:HG12	1:B:429:MET:O	0.71	1.85	2	1
1:A:567:LYS:O	1:A:571:GLU:HG3	0.70	1.87	2	2
1:A:126:ARG:HD3	2:C:651:GLN:HG3	0.70	1.62	1	1
1:A:73:PHE:O	1:A:77:ILE:HG22	0.70	1.87	2	1
1:B:301:PHE:O	1:B:304:ARG:CD	0.70	2.39	2	1
1:A:347:PHE:N	1:A:347:PHE:CD1	0.70	2.59	2	1
1:A:179:PHE:CZ	1:A:181:THR:OG1	0.70	2.40	1	1
1:B:456:LEU:HD11	1:B:481:VAL:HG13	0.70	1.63	1	1
1:B:177:LEU:HD12	1:B:177:LEU:C	0.70	2.06	2	1
1:A:126:ARG:HH11	2:C:651:GLN:NE2	0.70	1.84	2	1
1:B:431:GLU:CD	1:B:455:ASP:HB2	0.70	2.07	1	1
1:B:73:PHE:O	1:B:77:ILE:HG22	0.70	1.87	2	1
1:A:431:GLU:CD	1:A:455:ASP:HB2	0.70	2.07	1	1
1:B:304:ARG:CG	1:B:306:ALA:O	0.70	2.40	2	1
1:A:456:LEU:HD11	1:A:481:VAL:HG13	0.70	1.64	1	1
1:A:90:ILE:HD12	1:A:91:ALA:N	0.70	2.01	1	1
1:B:90:ILE:HD12	1:B:91:ALA:N	0.70	2.01	1	1
1:A:314:PHE:CZ	1:A:375:ARG:C	0.70	2.65	1	1
1:B:567:LYS:O	1:B:571:GLU:HG3	0.69	1.87	2	2
1:B:476:PRO:O	1:B:481:VAL:HG21	0.69	1.85	2	1
1:B:314:PHE:CZ	1:B:375:ARG:C	0.69	2.65	1	1
1:B:11:ILE:HD12	1:B:239:MET:CE	0.69	2.16	2	2
1:A:228:TYR:CG	1:A:235:VAL:HG11	0.69	2.22	2	2
1:B:228:TYR:CG	1:B:235:VAL:HG11	0.69	2.23	1	2
1:A:219:ILE:HD11	1:A:236:ILE:HG12	0.69	1.62	1	2
1:B:372:ASP:CG	1:B:373:GLN:N	0.69	2.45	1	1
1:B:431:GLU:HG3	1:B:452:GLY:C	0.69	2.07	1	1
1:A:11:ILE:HD12	1:A:239:MET:CE	0.69	2.17	2	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:304:ARG:NH1	1:A:342:LEU:HD23	0.69	2.03	2	1
1:B:13:PHE:CE2	1:B:240:ARG:HD2	0.69	2.23	1	2
1:A:377:ILE:HD12	1:A:377:ILE:O	0.69	1.87	1	1
1:B:377:ILE:HD12	1:B:377:ILE:O	0.69	1.87	1	1
1:B:6:LEU:HD22	1:B:6:LEU:N	0.69	2.03	2	1
1:A:296:ARG:C	1:A:299:PHE:CE2	0.69	2.66	1	1
1:A:232:THR:HG23	1:A:233:ASN:H	0.69	1.47	1	2
1:B:181:THR:O	1:B:205:THR:CG2	0.69	2.41	1	1
1:B:126:ARG:HD3	2:D:651:GLN:HG3	0.69	1.62	1	1
1:A:556:PRO:HB3	1:B:441:HIS:CG	0.69	2.23	2	2
1:A:456:LEU:C	1:A:456:LEU:HD22	0.69	2.09	1	1
1:B:294:LEU:HD11	1:B:332:ARG:NH2	0.68	2.03	2	1
1:A:181:THR:O	1:A:205:THR:CG2	0.68	2.41	1	1
1:B:107:VAL:HG23	1:B:108:ILE:N	0.68	2.03	2	1
1:B:296:ARG:C	1:B:299:PHE:CE2	0.68	2.66	1	1
1:A:6:LEU:N	1:A:6:LEU:HD22	0.68	2.03	2	1
1:A:467:ASN:ND2	1:A:470:ILE:CG1	0.68	2.56	1	1
1:A:13:PHE:CE2	1:A:240:ARG:HD2	0.68	2.23	2	2
1:A:372:ASP:CG	1:A:373:GLN:N	0.68	2.45	1	1
1:A:464:ASP:CG	1:A:467:ASN:ND2	0.68	2.46	1	1
1:B:314:PHE:CE2	1:B:376:ALA:O	0.68	2.47	1	1
1:A:304:ARG:CG	1:A:306:ALA:O	0.68	2.41	2	1
1:B:301:PHE:O	1:B:304:ARG:NH1	0.68	2.26	2	1
1:A:431:GLU:HG3	1:A:452:GLY:C	0.68	2.06	1	1
1:B:317:TYR:CE2	1:B:386:LEU:HD22	0.68	2.24	1	1
1:B:464:ASP:CG	1:B:467:ASN:ND2	0.68	2.46	1	1
1:B:467:ASN:ND2	1:B:470:ILE:CG1	0.68	2.56	1	1
1:A:314:PHE:CE2	1:A:376:ALA:O	0.68	2.47	1	1
1:A:515:LEU:CB	1:A:520:LEU:CD2	0.68	2.72	2	1
1:A:177:LEU:N	1:A:177:LEU:HD12	0.68	2.03	1	1
1:A:317:TYR:CE1	1:A:331:VAL:HG21	0.68	2.24	1	1
1:B:177:LEU:HD12	1:B:177:LEU:N	0.68	2.03	1	1
1:A:107:VAL:HG23	1:A:108:ILE:N	0.67	2.04	2	1
1:B:456:LEU:C	1:B:456:LEU:HD22	0.67	2.09	1	1
1:A:13:PHE:CG	1:A:240:ARG:NH1	0.67	2.63	2	2
1:A:336:ILE:N	1:A:336:ILE:HD12	0.67	2.05	2	1
1:A:355:LEU:N	1:A:355:LEU:CD2	0.67	2.58	2	1
1:B:13:PHE:CG	1:B:240:ARG:NH1	0.67	2.63	2	2
1:A:515:LEU:CB	1:A:520:LEU:HD21	0.67	2.20	2	1
1:B:157:ILE:CG1	1:B:177:LEU:HD21	0.67	2.19	2	1
1:B:515:LEU:O	1:B:520:LEU:CD2	0.67	2.42	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:352:ASN:HD21	1:B:354:PHE:H	0.67	1.30	2	2
1:B:232:THR:HG23	1:B:233:ASN:H	0.67	1.48	1	2
1:B:296:ARG:CA	1:B:299:PHE:CE2	0.67	2.77	1	1
1:B:263:THR:OG1	1:B:540:THR:O	0.67	2.11	1	1
1:A:304:ARG:O	1:A:344:TYR:OH	0.67	2.12	1	1
1:A:304:ARG:NE	1:A:306:ALA:O	0.67	2.28	2	1
1:B:515:LEU:CB	1:B:520:LEU:CD2	0.67	2.72	2	1
1:B:296:ARG:CB	1:B:299:PHE:CD2	0.67	2.78	1	1
1:A:515:LEU:HB3	1:A:520:LEU:HD13	0.67	1.66	2	1
1:A:314:PHE:CZ	1:A:376:ALA:N	0.67	2.63	1	1
1:A:127:ALA:O	1:A:130:VAL:HG22	0.67	1.90	1	1
1:A:157:ILE:CG1	1:A:177:LEU:HD21	0.67	2.19	2	1
1:B:336:ILE:N	1:B:336:ILE:HD12	0.67	2.05	2	1
1:A:179:PHE:CE1	1:A:190:THR:HG21	0.67	2.25	1	1
1:A:276:GLY:HA2	1:A:299:PHE:CG	0.67	2.21	1	1
1:A:296:ARG:CB	1:A:299:PHE:CD2	0.66	2.79	1	1
1:B:304:ARG:O	1:B:344:TYR:OH	0.66	2.13	1	1
1:A:230:ASN:N	1:A:231:PRO:CD	0.66	2.59	1	2
1:A:296:ARG:CA	1:A:299:PHE:CE2	0.66	2.78	1	1
1:A:292:VAL:HG21	1:A:329:VAL:CG1	0.66	2.18	1	1
1:B:179:PHE:CE1	1:B:190:THR:HG21	0.66	2.26	1	1
1:B:314:PHE:CZ	1:B:376:ALA:N	0.66	2.62	1	1
1:B:230:ASN:N	1:B:231:PRO:CD	0.66	2.59	1	2
1:A:232:THR:HG22	1:A:234:GLU:H	0.66	1.50	1	2
1:B:126:ARG:NH1	2:D:651:GLN:NE2	0.66	2.43	2	1
1:B:515:LEU:C	1:B:520:LEU:HD21	0.66	2.09	2	1
1:B:292:VAL:HG21	1:B:329:VAL:CG1	0.66	2.19	1	1
1:B:296:ARG:CB	1:B:299:PHE:CE2	0.66	2.79	1	1
1:A:175:LYS:CD	1:A:176:VAL:N	0.66	2.59	2	1
1:A:377:ILE:C	1:A:377:ILE:HD12	0.66	2.11	1	1
1:A:70:GLU:CD	1:A:70:GLU:C	0.66	2.55	1	2
1:A:314:PHE:CD2	1:A:379:ARG:HB3	0.66	2.25	1	1
1:B:515:LEU:HB3	1:B:520:LEU:HD13	0.65	1.67	2	1
1:B:515:LEU:CB	1:B:520:LEU:HD21	0.65	2.19	2	1
1:A:263:THR:OG1	1:A:540:THR:O	0.65	2.12	1	1
1:B:259:LEU:HB2	1:B:262:ILE:CG1	0.65	2.21	2	1
1:A:317:TYR:CE2	1:A:386:LEU:HD22	0.65	2.26	1	1
1:B:314:PHE:CD2	1:B:379:ARG:HB3	0.65	2.25	1	1
1:A:515:LEU:O	1:A:520:LEU:CD2	0.65	2.43	2	1
1:A:230:ASN:N	1:A:231:PRO:HD3	0.65	2.07	1	2
1:B:317:TYR:CE1	1:B:331:VAL:HG21	0.65	2.27	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:377:ILE:HD12	1:B:377:ILE:C	0.65	2.11	1	1
1:B:355:LEU:N	1:B:355:LEU:CD2	0.65	2.60	2	1
1:A:276:GLY:CA	1:A:299:PHE:CG	0.65	2.80	1	1
1:A:198:GLU:O	1:A:199:LEU:HD22	0.65	1.91	2	1
1:A:10:GLY:O	1:A:222:ALA:HB3	0.65	1.92	1	2
1:A:406:ILE:HD13	1:A:426:ILE:HD13	0.65	1.68	2	2
1:A:476:PRO:C	1:A:481:VAL:HG21	0.65	2.12	2	1
1:B:406:ILE:HD13	1:B:426:ILE:HD13	0.65	1.68	2	2
1:B:438:ILE:O	1:B:438:ILE:HG23	0.65	1.92	1	1
1:A:515:LEU:C	1:A:520:LEU:HD21	0.65	2.11	2	1
1:B:232:THR:HG22	1:B:234:GLU:H	0.65	1.51	2	2
1:B:269:VAL:CG1	1:B:523:PHE:CZ	0.65	2.80	2	1
1:B:70:GLU:CD	1:B:70:GLU:C	0.65	2.55	1	2
1:B:10:GLY:O	1:B:222:ALA:HB3	0.65	1.92	2	2
1:A:331:VAL:HG13	1:A:331:VAL:O	0.65	1.91	1	1
1:B:276:GLY:HA2	1:B:299:PHE:CG	0.65	2.21	1	1
1:A:464:ASP:OD1	1:A:467:ASN:CG	0.65	2.35	2	2
1:B:295:TYR:OH	1:B:300:LEU:HD22	0.65	1.92	1	1
1:A:314:PHE:CE2	1:A:375:ARG:O	0.65	2.50	1	1
1:A:438:ILE:HG22	1:A:441:HIS:HB2	0.64	1.67	2	1
1:A:72:ILE:HD11	2:C:616:THR:HG21	0.64	1.69	2	1
1:B:198:GLU:O	1:B:199:LEU:HD22	0.64	1.91	2	1
1:B:476:PRO:C	1:B:481:VAL:HG21	0.64	2.12	2	1
1:B:374:LEU:HA	1:B:377:ILE:CG2	0.64	2.22	1	1
1:B:230:ASN:N	1:B:231:PRO:HD3	0.64	2.07	1	2
1:A:126:ARG:NH1	2:C:651:GLN:NE2	0.64	2.46	2	1
1:A:295:TYR:OH	1:A:300:LEU:HD22	0.64	1.92	1	1
1:A:357:TRP:CD1	1:A:358:ARG:NH2	0.64	2.66	2	1
1:A:449:PHE:CE1	1:A:488:VAL:HG11	0.64	2.27	1	1
1:B:314:PHE:CE2	1:B:375:ARG:O	0.64	2.50	1	1
1:B:317:TYR:OH	1:B:373:GLN:NE2	0.64	2.30	2	1
1:B:347:PHE:CD1	1:B:347:PHE:N	0.64	2.59	2	1
1:B:175:LYS:CD	1:B:176:VAL:N	0.64	2.59	2	1
1:B:464:ASP:OD1	1:B:467:ASN:CG	0.64	2.36	2	2
1:A:374:LEU:HA	1:A:377:ILE:CG2	0.64	2.22	1	1
1:A:449:PHE:HZ	1:A:451:ILE:HB	0.64	1.50	1	1
1:B:276:GLY:CA	1:B:299:PHE:CG	0.64	2.80	1	1
1:B:525:MET:HG3	1:B:526:SER:N	0.64	2.08	1	1
1:B:451:ILE:CG2	1:B:451:ILE:O	0.64	2.46	1	1
1:B:449:PHE:CE1	1:B:488:VAL:HG11	0.64	2.26	1	1
1:B:70:GLU:CG	1:B:71:ALA:N	0.64	2.61	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:438:ILE:O	1:A:438:ILE:HG23	0.64	1.92	1	1
1:A:451:ILE:CG2	1:A:451:ILE:O	0.64	2.46	1	1
1:A:304:ARG:O	1:A:304:ARG:NH1	0.63	2.31	2	1
1:B:464:ASP:OD1	1:B:464:ASP:N	0.63	2.29	2	1
1:B:72:ILE:HD11	2:D:616:THR:HG21	0.63	1.69	2	1
1:B:453:THR:HG22	1:B:503:GLY:HA3	0.63	1.70	1	1
1:B:394:ILE:HD13	1:B:394:ILE:N	0.63	2.00	2	1
1:A:296:ARG:CB	1:A:299:PHE:CE2	0.63	2.80	1	1
1:A:463:VAL:CG2	1:A:473:LEU:HD21	0.63	2.23	1	1
1:A:126:ARG:CD	2:C:616:THR:OG1	0.63	2.46	2	1
1:B:127:ALA:O	1:B:130:VAL:HG22	0.63	1.93	1	1
1:A:301:PHE:O	1:A:304:ARG:NH1	0.63	2.32	2	1
1:B:264:LEU:C	1:B:264:LEU:HD23	0.63	2.13	2	1
1:B:304:ARG:NH1	1:B:304:ARG:O	0.63	2.32	2	1
1:B:357:TRP:CD1	1:B:358:ARG:NH2	0.63	2.66	2	1
1:B:530:ILE:HD12	1:B:530:ILE:C	0.63	2.14	2	1
1:B:11:ILE:HG23	1:B:239:MET:CE	0.63	2.24	1	2
1:A:537:ILE:O	1:A:540:THR:HG22	0.63	1.94	1	1
1:B:342:LEU:HD12	1:B:344:TYR:CE1	0.63	2.29	1	1
1:A:264:LEU:HD23	1:A:264:LEU:C	0.63	2.13	2	1
1:B:537:ILE:O	1:B:540:THR:HG22	0.63	1.93	1	1
1:B:350:GLU:N	1:B:350:GLU:OE2	0.62	2.32	2	1
1:A:525:MET:HG3	1:A:526:SER:N	0.62	2.08	1	1
1:B:276:GLY:HA2	1:B:299:PHE:CZ	0.62	2.24	1	1
1:A:11:ILE:HG23	1:A:239:MET:CE	0.62	2.24	2	2
1:A:441:HIS:CG	1:B:556:PRO:HB3	0.62	2.28	2	2
1:B:331:VAL:O	1:B:331:VAL:HG13	0.62	1.92	1	1
1:B:4:GLY:HA3	1:B:202:ILE:HD11	0.62	1.71	1	1
1:A:304:ARG:HG2	1:A:306:ALA:H	0.62	1.55	2	1
1:B:296:ARG:C	1:B:299:PHE:CZ	0.62	2.72	1	1
1:B:525:MET:CG	1:B:526:SER:N	0.62	2.62	1	1
1:B:50:ALA:O	1:B:54:LEU:CD2	0.62	2.47	2	1
1:A:70:GLU:CG	1:A:71:ALA:N	0.62	2.62	1	1
1:A:394:ILE:HD13	1:A:394:ILE:N	0.62	2.00	2	1
1:B:115:LEU:HD11	2:D:651:GLN:CB	0.62	2.23	2	1
1:B:126:ARG:CD	2:D:616:THR:OG1	0.62	2.47	2	1
1:A:342:LEU:HD12	1:A:344:TYR:CE1	0.62	2.30	1	1
1:A:317:TYR:OH	1:A:373:GLN:NE2	0.62	2.33	2	1
1:B:304:ARG:HG2	1:B:306:ALA:H	0.62	1.54	2	1
1:A:269:VAL:CG1	1:A:523:PHE:CZ	0.62	2.81	2	1
1:B:304:ARG:NE	1:B:306:ALA:O	0.61	2.33	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:173:LEU:N	1:A:173:LEU:HD22	0.61	2.10	1	1
1:A:525:MET:CG	1:A:526:SER:N	0.61	2.62	1	1
1:A:367:ARG:C	1:A:371:ARG:HG3	0.61	2.15	2	1
1:A:115:LEU:HD11	2:C:651:GLN:CB	0.61	2.23	2	1
1:A:296:ARG:C	1:A:299:PHE:CZ	0.61	2.73	1	1
1:A:453:THR:HG22	1:A:503:GLY:HA3	0.61	1.70	1	1
1:A:513:LEU:HD22	1:A:513:LEU:H	0.61	1.53	1	1
1:A:337:GLY:O	1:A:358:ARG:CD	0.61	2.49	2	1
1:A:489:ILE:O	1:A:492:SER:HB2	0.61	1.95	2	2
1:A:530:ILE:HD12	1:A:530:ILE:C	0.61	2.16	2	1
1:A:58:LYS:HB2	1:A:73:PHE:CG	0.61	2.30	2	1
1:B:72:ILE:O	1:B:72:ILE:HD13	0.61	1.95	2	1
1:A:50:ALA:O	1:A:54:LEU:CD2	0.61	2.48	2	1
1:A:73:PHE:CD2	1:A:73:PHE:C	0.61	2.73	2	1
1:B:350:GLU:HB3	1:B:357:TRP:CZ2	0.61	2.31	2	1
1:B:438:ILE:HG22	1:B:441:HIS:HB2	0.61	1.70	2	1
1:A:238:LYS:O	1:A:242:VAL:HG23	0.61	1.95	2	2
1:B:238:LYS:O	1:B:242:VAL:HG23	0.61	1.96	2	2
1:B:58:LYS:HB2	1:B:73:PHE:CG	0.61	2.30	2	1
1:A:111:GLN:NE2	2:C:648:PHE:HB3	0.61	2.10	2	1
1:A:228:TYR:HB3	1:A:231:PRO:CG	0.61	2.25	1	2
2:D:679:LYS:NZ	2:D:683:GLU:OE1	0.61	2.30	2	1
1:B:463:VAL:CG2	1:B:473:LEU:HD21	0.61	2.25	1	1
1:A:276:GLY:HA2	1:A:299:PHE:CZ	0.61	2.25	1	1
1:A:394:ILE:CD1	1:A:394:ILE:N	0.61	2.64	2	1
1:B:111:GLN:NE2	2:D:648:PHE:HB3	0.61	2.10	2	1
1:A:181:THR:O	1:A:205:THR:HG23	0.61	1.95	1	1
1:B:431:GLU:CG	1:B:455:ASP:CB	0.61	2.78	1	1
1:A:78:MET:HE2	2:C:627:LYS:HD3	0.61	1.68	1	1
1:B:337:GLY:O	1:B:358:ARG:CD	0.61	2.49	2	1
1:B:73:PHE:CD2	1:B:73:PHE:C	0.61	2.74	2	1
1:B:228:TYR:HB3	1:B:231:PRO:CG	0.60	2.25	2	2
1:B:360:ILE:CD1	1:B:390:PHE:CD2	0.60	2.84	2	1
1:A:342:LEU:O	1:A:347:PHE:CZ	0.60	2.54	2	1
1:A:402:LEU:C	1:A:402:LEU:HD13	0.60	2.17	2	1
1:A:515:LEU:CB	1:A:520:LEU:CD1	0.60	2.78	2	1
1:A:453:THR:HA	1:A:456:LEU:HD12	0.60	1.73	1	1
1:A:456:LEU:HD13	1:A:457:THR:CA	0.60	2.26	1	1
1:A:350:GLU:N	1:A:350:GLU:OE2	0.60	2.33	2	1
1:B:107:VAL:CG2	1:B:108:ILE:N	0.60	2.64	2	1
1:B:309:THR:OG1	1:B:310:GLU:N	0.60	2.32	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:513:LEU:H	1:B:513:LEU:HD22	0.60	1.54	1	1
1:A:221:ASP:OD2	1:A:226:GLN:N	0.60	2.34	2	1
1:B:342:LEU:O	1:B:347:PHE:CZ	0.60	2.55	2	1
1:B:394:ILE:CD1	1:B:394:ILE:N	0.60	2.64	2	1
1:A:304:ARG:NH2	1:A:312:GLU:OE2	0.60	2.33	1	1
1:B:179:PHE:CE1	1:B:181:THR:OG1	0.60	2.51	1	1
1:A:73:PHE:CD2	1:A:74:GLU:N	0.60	2.69	2	1
1:A:4:GLY:HA3	1:A:202:ILE:HD11	0.60	1.72	1	1
1:B:173:LEU:N	1:B:173:LEU:HD22	0.60	2.10	1	1
1:B:292:VAL:HG13	1:B:329:VAL:HG22	0.60	1.71	1	1
1:A:269:VAL:HG13	1:A:521:ASP:C	0.60	2.17	2	1
1:B:489:ILE:O	1:B:492:SER:HB2	0.60	1.95	2	2
1:A:350:GLU:HB3	1:A:357:TRP:CZ2	0.60	2.32	2	1
1:A:221:ASP:CA	1:A:239:MET:HE1	0.60	2.27	1	2
1:A:292:VAL:HG13	1:A:329:VAL:HG22	0.60	1.71	1	1
1:B:259:LEU:O	1:B:260:PRO:O	0.60	2.20	1	1
1:A:172:ASN:O	1:A:176:VAL:HG12	0.60	1.97	2	2
1:A:72:ILE:O	1:A:72:ILE:HD13	0.60	1.95	2	1
1:B:221:ASP:OD2	1:B:226:GLN:N	0.60	2.33	2	1
1:B:402:LEU:C	1:B:402:LEU:HD13	0.60	2.16	2	1
1:A:467:ASN:ND2	1:A:470:ILE:HG12	0.60	2.12	1	1
1:B:367:ARG:CZ	1:B:371:ARG:NH2	0.60	2.65	1	1
1:A:302:MET:N	1:A:342:LEU:HD21	0.60	2.12	2	1
1:B:269:VAL:HG13	1:B:521:ASP:C	0.60	2.16	2	1
1:B:515:LEU:CB	1:B:520:LEU:CD1	0.60	2.79	2	1
1:A:262:ILE:N	1:A:537:ILE:CD1	0.59	2.65	2	1
1:A:515:LEU:C	1:A:520:LEU:CD2	0.59	2.70	2	1
1:B:152:ILE:HG21	1:B:175:LYS:CG	0.59	2.27	2	1
1:B:301:PHE:C	1:B:342:LEU:HD21	0.59	2.18	2	1
1:B:73:PHE:CD2	1:B:74:GLU:N	0.59	2.70	2	1
1:A:179:PHE:CE1	1:A:181:THR:OG1	0.59	2.51	1	1
1:B:367:ARG:C	1:B:371:ARG:HG3	0.59	2.15	2	1
2:D:618:PRO:HB3	2:D:684:LEU:HD13	0.59	1.73	2	1
1:B:70:GLU:HG3	1:B:71:ALA:N	0.59	2.13	1	1
1:A:367:ARG:CZ	1:A:371:ARG:NH2	0.59	2.65	1	1
1:B:181:THR:O	1:B:205:THR:HG23	0.59	1.96	1	1
1:A:309:THR:OG1	1:A:310:GLU:N	0.59	2.33	2	1
1:B:259:LEU:CB	1:B:262:ILE:HG12	0.59	2.26	2	1
1:B:262:ILE:N	1:B:537:ILE:CD1	0.59	2.65	2	1
1:A:352:ASN:ND2	1:B:354:PHE:H	0.59	1.96	2	1
1:B:438:ILE:HG22	1:B:438:ILE:O	0.59	1.98	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:53:GLN:O	1:B:56:THR:OG1	0.59	2.20	2	2
1:A:152:ILE:HG21	1:A:175:LYS:CG	0.59	2.27	2	1
1:A:261:ALA:HA	1:A:537:ILE:HD11	0.59	1.74	2	1
1:B:152:ILE:CG2	1:B:175:LYS:HG3	0.59	2.28	2	1
1:B:302:MET:N	1:B:342:LEU:HD21	0.59	2.12	2	1
1:A:261:ALA:C	1:A:537:ILE:HD13	0.59	2.18	2	1
1:B:172:ASN:O	1:B:176:VAL:HG12	0.59	1.98	2	2
1:A:394:ILE:HG22	1:A:432:THR:HG21	0.59	1.73	1	1
1:B:467:ASN:ND2	1:B:470:ILE:HG12	0.59	2.13	1	1
1:A:221:ASP:OD2	1:A:224:ASN:C	0.58	2.40	2	1
1:A:530:ILE:HG23	1:A:531:PRO:HD3	0.58	1.74	2	1
1:B:221:ASP:OD2	1:B:224:ASN:C	0.58	2.40	2	1
1:B:350:GLU:OE1	1:B:357:TRP:NE1	0.58	2.36	2	1
1:B:58:LYS:HB2	1:B:73:PHE:CD2	0.58	2.33	2	1
1:B:192:ILE:C	1:B:192:ILE:HD12	0.58	2.19	1	1
1:B:453:THR:HA	1:B:456:LEU:HD12	0.58	1.74	1	1
1:A:302:MET:HG2	1:A:342:LEU:CG	0.58	2.28	2	1
1:A:431:GLU:CG	1:A:455:ASP:CB	0.58	2.78	1	1
1:A:449:PHE:CE1	1:A:451:ILE:CB	0.58	2.86	1	1
1:A:107:VAL:CG2	1:A:108:ILE:N	0.58	2.66	2	1
1:A:82:ASP:OD1	1:A:82:ASP:N	0.58	2.35	2	1
1:A:152:ILE:CG2	1:A:175:LYS:HG3	0.58	2.28	2	1
1:A:301:PHE:C	1:A:342:LEU:HD21	0.58	2.18	2	1
1:A:354:PHE:H	1:B:352:ASN:ND2	0.58	1.97	2	1
1:A:53:GLN:O	1:A:56:THR:OG1	0.58	2.21	2	2
1:B:72:ILE:HD11	2:D:616:THR:CG2	0.58	2.28	2	1
1:B:79:LEU:HD11	2:D:648:PHE:CE1	0.58	2.32	2	2
1:A:89:ILE:CD1	1:A:90:ILE:HG23	0.58	2.29	1	1
1:A:79:LEU:HD11	2:C:648:PHE:CE1	0.58	2.34	2	2
1:A:301:PHE:CE1	1:A:304:ARG:CZ	0.58	2.86	2	1
1:B:50:ALA:HB2	1:B:140:ASN:ND2	0.58	2.14	2	1
1:A:126:ARG:HD3	2:C:651:GLN:CD	0.58	2.19	1	1
1:A:421:ASP:OD1	1:A:423:SER:HB2	0.58	1.99	2	2
1:B:449:PHE:CE1	1:B:451:ILE:CB	0.58	2.87	1	1
1:B:456:LEU:HD13	1:B:457:THR:CA	0.58	2.26	1	1
1:B:304:ARG:HE	1:B:306:ALA:C	0.58	2.01	2	1
1:B:358:ARG:CA	1:B:358:ARG:HE	0.58	2.09	2	1
1:B:180:ILE:HD13	1:B:202:ILE:H	0.58	1.59	2	1
1:B:331:VAL:HG11	1:B:377:ILE:HG12	0.58	1.76	2	1
1:B:353:PRO:O	1:B:358:ARG:HD2	0.58	1.98	2	1
1:B:421:ASP:OD1	1:B:423:SER:HB2	0.58	1.99	2	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:310:GLU:N	1:B:372:ASP:OD2	0.58	2.37	2	1
1:B:345:MET:HB3	1:B:347:PHE:CE2	0.58	2.34	2	1
1:B:126:ARG:HD3	2:D:651:GLN:CD	0.58	2.19	1	1
1:A:192:ILE:HD12	1:A:192:ILE:C	0.57	2.20	1	1
1:A:276:GLY:O	1:A:299:PHE:CG	0.57	2.55	1	1
1:B:282:GLU:O	1:B:285:GLU:HG2	0.57	1.99	1	1
1:A:50:ALA:HB2	1:A:140:ASN:ND2	0.57	2.14	2	1
1:A:331:VAL:HG11	1:A:377:ILE:HG12	0.57	1.76	2	1
1:A:350:GLU:OE1	1:A:357:TRP:NE1	0.57	2.37	2	1
1:B:515:LEU:C	1:B:520:LEU:CD2	0.57	2.69	2	1
1:B:79:LEU:HD21	2:D:648:PHE:CE2	0.57	2.34	1	2
1:B:470:ILE:HG22	1:B:473:LEU:HB2	0.57	1.76	2	1
1:B:374:LEU:O	1:B:377:ILE:HG23	0.57	1.98	1	1
1:A:357:TRP:HD1	1:A:358:ARG:NH2	0.57	1.98	2	1
1:B:279:ARG:NH2	2:D:685:GLU:OE2	0.57	2.37	2	1
1:B:126:ARG:NH2	2:D:619:ALA:HB1	0.57	2.04	1	1
1:B:115:LEU:HD21	2:D:651:GLN:CB	0.57	2.30	1	1
1:A:180:ILE:HD13	1:A:202:ILE:H	0.57	1.60	2	1
1:B:541:ASN:O	1:B:544:ASP:CG	0.57	2.43	1	2
1:A:232:THR:HG22	1:A:233:ASN:H	0.57	1.35	1	2
1:A:374:LEU:O	1:A:377:ILE:HG23	0.57	1.99	1	1
1:B:520:LEU:CD2	1:B:521:ASP:N	0.57	2.68	1	1
1:A:345:MET:HB3	1:A:347:PHE:CE2	0.57	2.34	2	1
1:A:358:ARG:HE	1:A:358:ARG:CA	0.57	2.09	2	1
1:B:13:PHE:CD2	1:B:240:ARG:NH1	0.57	2.73	2	2
1:B:428:VAL:CG1	1:B:429:MET:O	0.57	2.52	2	1
1:B:82:ASP:OD1	1:B:82:ASP:N	0.57	2.36	2	1
1:A:428:VAL:CG1	1:A:429:MET:O	0.57	2.52	2	1
1:A:79:LEU:HD21	2:C:648:PHE:CE2	0.57	2.35	1	2
1:A:13:PHE:CD2	1:A:240:ARG:NH1	0.57	2.73	2	2
1:A:310:GLU:N	1:A:372:ASP:OD2	0.57	2.36	2	1
1:B:261:ALA:C	1:B:537:ILE:HD13	0.57	2.19	2	1
1:A:221:ASP:CG	1:A:239:MET:SD	0.57	2.83	1	1
1:A:260:PRO:CB	1:A:290:GLU:HG3	0.57	2.30	1	1
1:A:520:LEU:HD22	1:A:522:GLU:H	0.57	1.60	1	1
1:B:89:ILE:CD1	1:B:90:ILE:HG23	0.57	2.30	1	1
1:A:89:ILE:CG2	1:A:90:ILE:N	0.57	2.67	2	1
1:B:252:GLU:OE1	1:B:255:LYS:NZ	0.57	2.32	2	1
1:B:314:PHE:CZ	1:B:375:ARG:O	0.57	2.57	1	1
1:B:394:ILE:HG22	1:B:432:THR:HG21	0.57	1.76	1	1
1:A:520:LEU:CD2	1:A:521:ASP:N	0.56	2.68	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:486:LYS:HD2	1:A:553:LEU:HD13	0.56	1.76	2	2
1:A:314:PHE:CZ	1:A:375:ARG:O	0.56	2.57	1	1
1:B:520:LEU:HD22	1:B:522:GLU:H	0.56	1.60	1	1
1:B:486:LYS:HD2	1:B:553:LEU:HD13	0.56	1.75	2	2
1:A:336:ILE:N	1:A:336:ILE:CD1	0.56	2.68	2	1
1:A:515:LEU:CB	1:A:520:LEU:HD11	0.56	2.29	2	1
1:A:541:ASN:O	1:A:544:ASP:CG	0.56	2.43	1	2
1:B:255:LYS:O	1:B:256:LEU:O	0.56	2.23	1	1
1:A:221:ASP:OD1	1:A:222:ALA:N	0.56	2.38	2	1
1:A:353:PRO:O	1:A:358:ARG:HD2	0.56	1.98	2	1
1:A:438:ILE:O	1:A:438:ILE:HG22	0.56	2.00	2	1
1:A:467:ASN:O	1:A:467:ASN:OD1	0.56	2.23	1	2
1:B:221:ASP:CG	1:B:239:MET:SD	0.56	2.84	1	1
1:A:271:VAL:CG2	1:A:271:VAL:O	0.56	2.54	2	1
1:B:89:ILE:CG2	1:B:90:ILE:N	0.56	2.68	2	1
1:A:72:ILE:HD11	2:C:616:THR:CG2	0.56	2.28	2	1
1:B:176:VAL:HG13	1:B:176:VAL:O	0.56	2.00	1	2
1:B:429:MET:SD	1:B:450:SER:OG	0.56	2.64	2	1
1:B:515:LEU:CB	1:B:520:LEU:HD11	0.56	2.30	2	1
1:B:467:ASN:ND2	1:B:470:ILE:HG13	0.56	2.15	1	1
1:A:301:PHE:O	1:A:342:LEU:CD2	0.56	2.54	2	1
1:B:412:GLU:O	1:B:416:GLU:HG3	0.56	2.01	2	2
1:B:464:ASP:O	1:B:467:ASN:OD1	0.56	2.23	1	2
1:A:360:ILE:CD1	1:A:390:PHE:CD2	0.56	2.86	2	1
1:A:470:ILE:HG22	1:A:473:LEU:HB2	0.56	1.77	2	1
1:A:515:LEU:CA	1:A:520:LEU:HD11	0.56	2.30	2	1
1:A:58:LYS:HB2	1:A:73:PHE:CD2	0.56	2.35	2	1
1:A:451:ILE:HD13	1:A:485:ILE:HG12	0.56	1.76	1	1
1:B:78:MET:HE2	2:D:627:LYS:HD3	0.56	1.78	1	1
1:A:176:VAL:O	1:A:176:VAL:HG13	0.56	2.01	1	1
1:B:451:ILE:HD13	1:B:485:ILE:HG12	0.56	1.76	1	1
1:A:115:LEU:HD21	2:C:651:GLN:CB	0.56	2.31	1	1
1:A:352:ASN:HD21	1:B:354:PHE:N	0.56	1.97	1	1
1:A:70:GLU:HG3	1:A:71:ALA:N	0.56	2.14	1	1
1:B:431:GLU:CG	1:B:455:ASP:HB2	0.56	2.31	1	1
1:B:463:VAL:HG21	1:B:473:LEU:HD21	0.56	1.77	1	1
1:A:13:PHE:N	1:A:13:PHE:CD1	0.55	2.74	2	1
1:A:302:MET:CG	1:A:342:LEU:HG	0.55	2.31	2	1
1:B:530:ILE:HG23	1:B:531:PRO:HD3	0.55	1.76	2	1
1:B:467:ASN:O	1:B:467:ASN:OD1	0.55	2.23	1	2
1:A:464:ASP:O	1:A:467:ASN:OD1	0.55	2.24	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:429:MET:SD	1:A:450:SER:OG	0.55	2.64	2	1
1:B:157:ILE:HG12	1:B:177:LEU:HD11	0.55	1.78	2	1
1:B:221:ASP:OD1	1:B:222:ALA:N	0.55	2.38	2	1
1:A:292:VAL:CG2	1:A:329:VAL:CG1	0.55	2.81	1	1
1:B:398:GLU:OE1	1:B:398:GLU:N	0.55	2.39	1	1
1:A:412:GLU:O	1:A:416:GLU:HG3	0.55	2.01	2	2
1:B:117:GLU:N	1:B:117:GLU:OE1	0.55	2.39	2	1
1:B:221:ASP:CA	1:B:239:MET:HE1	0.55	2.30	2	2
1:B:271:VAL:CG2	1:B:271:VAL:O	0.55	2.54	2	1
1:B:357:TRP:HD1	1:B:358:ARG:NH2	0.55	1.98	2	1
1:B:261:ALA:HA	1:B:537:ILE:HD11	0.55	1.77	2	1
1:A:474:TYR:CD2	1:A:474:TYR:O	0.55	2.59	2	2
1:B:58:LYS:CG	1:B:73:PHE:CD2	0.55	2.90	2	1
1:A:167:GLU:OE1	1:A:167:GLU:N	0.55	2.40	1	1
1:B:449:PHE:HZ	1:B:451:ILE:HB	0.55	1.50	1	1
1:B:125:GLU:OE1	1:B:125:GLU:N	0.55	2.38	2	1
1:B:11:ILE:HD12	1:B:239:MET:HE1	0.55	1.77	1	2
1:A:451:ILE:HG22	1:A:501:MET:HG2	0.55	1.79	1	1
1:B:455:ASP:OD1	1:B:459:TYR:CE1	0.55	2.59	1	1
1:A:355:LEU:HD13	1:B:462:ALA:HA	0.55	1.78	2	1
1:A:79:LEU:O	1:A:82:ASP:CG	0.55	2.45	2	1
1:B:474:TYR:O	1:B:474:TYR:CD2	0.55	2.60	2	1
2:D:650:LEU:O	2:D:652:THR:N	0.55	2.40	1	2
1:A:484:LEU:HD23	1:A:485:ILE:N	0.55	2.16	1	1
1:A:68:GLU:N	1:A:68:GLU:CD	0.55	2.60	1	1
1:B:339:ASP:OD2	1:B:465:ARG:NH2	0.55	2.39	1	1
1:A:157:ILE:HG12	1:A:177:LEU:HD11	0.55	1.78	2	1
1:A:253:LEU:O	1:A:257:LYS:NZ	0.55	2.35	2	1
1:A:389:MET:SD	1:A:450:SER:OG	0.55	2.65	2	1
1:A:522:GLU:OE1	1:A:523:PHE:N	0.55	2.39	2	1
1:A:467:ASN:ND2	1:A:470:ILE:HG13	0.55	2.16	1	1
1:A:117:GLU:N	1:A:117:GLU:OE1	0.55	2.40	2	1
1:B:271:VAL:O	1:B:271:VAL:HG23	0.55	2.02	2	1
1:B:272:CYS:SG	1:B:293:GLY:HA3	0.55	2.42	2	1
1:A:354:PHE:N	1:B:352:ASN:HD21	0.55	1.96	1	1
1:A:431:GLU:CG	1:A:455:ASP:HB2	0.55	2.32	1	1
1:B:276:GLY:O	1:B:299:PHE:CG	0.55	2.55	1	1
1:B:451:ILE:HG22	1:B:501:MET:HG2	0.55	1.77	1	1
1:B:79:LEU:O	1:B:82:ASP:CG	0.55	2.46	2	1
2:C:650:LEU:O	2:C:652:THR:N	0.55	2.40	2	2
1:A:456:LEU:HD13	1:A:457:THR:H	0.55	1.58	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:520:LEU:HD23	1:B:521:ASP:N	0.55	2.17	1	1
1:B:68:GLU:N	1:B:68:GLU:CD	0.55	2.61	1	1
1:B:301:PHE:O	1:B:342:LEU:CD2	0.54	2.54	2	1
1:A:125:GLU:OE1	1:A:125:GLU:N	0.54	2.39	2	1
1:A:58:LYS:CG	1:A:73:PHE:CD2	0.54	2.91	2	1
1:B:13:PHE:CD1	1:B:13:PHE:N	0.54	2.75	1	2
1:A:11:ILE:HD12	1:A:239:MET:HE1	0.54	1.79	1	2
1:A:302:MET:CA	1:A:342:LEU:HD21	0.54	2.32	2	1
1:B:522:GLU:OE1	1:B:523:PHE:N	0.54	2.40	2	1
1:A:520:LEU:HD23	1:A:521:ASP:N	0.54	2.18	1	1
1:B:292:VAL:CG1	1:B:329:VAL:HG13	0.54	2.32	1	1
1:A:152:ILE:HG21	1:A:175:LYS:HG3	0.54	1.79	2	1
1:A:126:ARG:NH2	2:C:619:ALA:HB1	0.54	2.05	1	1
1:A:339:ASP:OD2	1:A:465:ARG:NH2	0.54	2.40	1	1
1:A:271:VAL:HG23	1:A:271:VAL:O	0.54	2.02	2	1
1:B:363:ALA:HB1	1:B:370:LEU:HB2	0.54	1.79	2	2
1:A:68:GLU:CD	1:A:68:GLU:H	0.54	2.06	1	1
1:B:484:LEU:HD23	1:B:485:ILE:N	0.54	2.17	1	1
1:A:476:PRO:O	1:A:481:VAL:HG23	0.54	2.03	2	1
1:B:74:GLU:OE1	1:B:78:MET:SD	0.54	2.65	2	1
1:B:456:LEU:HD13	1:B:456:LEU:C	0.54	2.21	1	1
1:A:304:ARG:HE	1:A:306:ALA:C	0.54	2.05	2	1
1:A:345:MET:CB	1:A:347:PHE:CE2	0.54	2.90	2	1
1:A:405:GLU:HG3	1:A:409:TYR:CE1	0.54	2.38	2	2
1:B:292:VAL:CG2	1:B:329:VAL:CG1	0.54	2.82	1	1
1:B:449:PHE:CD2	1:B:499:THR:HB	0.54	2.38	1	1
1:B:126:ARG:HH21	2:D:619:ALA:HB3	0.54	1.49	1	1
1:A:374:LEU:HA	1:A:377:ILE:HG23	0.54	1.80	1	1
1:B:167:GLU:OE1	1:B:167:GLU:N	0.54	2.40	1	1
1:B:197:LEU:HD13	1:B:197:LEU:O	0.54	2.03	1	1
2:C:679:LYS:NZ	2:C:683:GLU:OE1	0.54	2.36	2	1
1:A:456:LEU:HD13	1:A:456:LEU:C	0.54	2.21	1	1
1:B:372:ASP:OD1	1:B:373:GLN:N	0.54	2.41	1	1
1:A:485:ILE:CG2	1:A:518:MET:SD	0.54	2.96	2	1
1:B:152:ILE:HG21	1:B:175:LYS:HG3	0.54	1.80	2	1
1:B:485:ILE:CG2	1:B:518:MET:SD	0.54	2.96	2	1
1:A:13:PHE:CD1	1:A:13:PHE:N	0.54	2.74	1	1
1:B:456:LEU:HD11	1:B:481:VAL:HG11	0.54	1.78	1	1
1:A:46:GLY:O	1:A:140:ASN:ND2	0.53	2.41	1	1
1:B:474:TYR:CD2	1:B:474:TYR:O	0.53	2.60	1	1
1:B:105:HIS:NE2	1:B:109:GLU:OE1	0.53	2.42	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:162:ASP:OD1	1:B:163:LEU:N	0.53	2.41	1	1
1:B:296:ARG:HB3	1:B:299:PHE:CD2	0.53	2.37	1	1
1:A:74:GLU:HA	1:A:77:ILE:HG22	0.53	1.80	2	1
1:B:259:LEU:HB2	1:B:262:ILE:HG12	0.53	1.80	2	1
1:B:5:ILE:HD13	1:B:5:ILE:O	0.53	2.03	2	1
1:A:221:ASP:CA	1:A:239:MET:CE	0.53	2.78	1	2
1:A:161:ALA:O	1:A:181:THR:CG2	0.53	2.56	1	1
1:A:197:LEU:HD13	1:A:197:LEU:O	0.53	2.03	1	1
1:B:345:MET:CB	1:B:347:PHE:CE2	0.53	2.91	2	1
1:B:309:THR:C	1:B:372:ASP:OD2	0.53	2.47	2	1
1:B:457:THR:CG2	1:B:458:GLN:N	0.53	2.71	2	1
1:A:221:ASP:OD2	1:A:239:MET:SD	0.53	2.67	1	1
1:A:537:ILE:HG13	1:A:538:ARG:N	0.53	2.19	2	1
1:B:302:MET:CA	1:B:342:LEU:HD21	0.53	2.33	2	1
1:B:336:ILE:CD1	1:B:336:ILE:N	0.53	2.68	2	1
1:B:405:GLU:HG3	1:B:409:TYR:CE1	0.53	2.38	2	2
1:A:296:ARG:HB3	1:A:299:PHE:CD2	0.53	2.38	1	1
1:A:272:CYS:SG	1:A:293:GLY:HA3	0.53	2.43	2	1
1:A:287:ASN:HB3	1:A:530:ILE:HG23	0.53	1.81	2	1
1:A:309:THR:C	1:A:372:ASP:OD2	0.53	2.47	2	1
1:A:363:ALA:HB1	1:A:370:LEU:HB2	0.53	1.79	2	2
1:A:74:GLU:OE1	1:A:78:MET:SD	0.53	2.67	2	1
1:B:358:ARG:HE	1:B:358:ARG:HA	0.53	1.64	2	1
1:A:279:ARG:NH2	2:C:685:GLU:OE2	0.53	2.36	2	1
1:A:292:VAL:CG1	1:A:329:VAL:HG13	0.53	2.33	1	1
1:A:455:ASP:OD1	1:A:459:TYR:CE1	0.53	2.62	1	1
1:A:456:LEU:C	1:A:456:LEU:CD2	0.53	2.77	1	1
1:A:463:VAL:HG11	1:A:473:LEU:CG	0.53	2.14	1	1
1:B:296:ARG:HB2	1:B:299:PHE:CE2	0.53	2.37	1	1
1:B:317:TYR:CZ	1:B:386:LEU:HD13	0.53	2.39	1	1
1:B:454:ASN:O	1:B:458:GLN:OE1	0.53	2.27	1	1
1:A:51:SER:O	1:A:54:LEU:HG	0.53	2.04	2	1
1:B:389:MET:SD	1:B:450:SER:OG	0.53	2.65	2	1
1:A:449:PHE:CD2	1:A:499:THR:HB	0.53	2.39	1	1
1:B:161:ALA:O	1:B:181:THR:CG2	0.53	2.56	1	1
1:A:511:ALA:HB1	1:A:515:LEU:HD13	0.53	1.81	2	1
1:A:296:ARG:HB2	1:A:299:PHE:CE2	0.53	2.38	1	1
1:B:470:ILE:HB	1:B:473:LEU:CD2	0.53	2.34	1	1
1:A:301:PHE:O	1:A:304:ARG:HD2	0.53	2.04	2	1
1:A:457:THR:CG2	1:A:458:GLN:N	0.53	2.72	2	1
1:B:51:SER:O	1:B:54:LEU:HG	0.53	2.04	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:5:ILE:C	1:B:6:LEU:HD22	0.53	2.24	2	1
1:A:246:VAL:CG2	1:A:247:ALA:N	0.53	2.72	1	1
1:B:221:ASP:OD2	1:B:239:MET:SD	0.53	2.67	1	1
1:B:68:GLU:H	1:B:68:GLU:CD	0.53	2.06	1	1
1:A:5:ILE:C	1:A:6:LEU:HD22	0.53	2.25	2	1
1:A:161:ALA:O	1:A:181:THR:HG22	0.53	2.04	1	1
1:B:105:HIS:CE1	1:B:109:GLU:OE1	0.53	2.62	1	1
1:B:199:LEU:O	1:B:199:LEU:CD2	0.53	2.55	1	1
1:A:302:MET:HG2	1:A:342:LEU:HG	0.52	1.80	2	1
1:A:355:LEU:N	1:A:355:LEU:HD23	0.52	2.18	2	1
1:A:511:ALA:HB1	1:A:515:LEU:CD1	0.52	2.34	2	1
1:B:58:LYS:CD	1:B:58:LYS:C	0.52	2.78	2	1
1:A:88:GLU:N	1:A:88:GLU:OE1	0.52	2.42	1	1
1:B:276:GLY:C	1:B:299:PHE:CE1	0.52	2.82	1	1
1:A:79:LEU:O	1:A:82:ASP:OD1	0.52	2.26	2	2
1:B:287:ASN:HB3	1:B:530:ILE:HG23	0.52	1.80	2	1
1:B:476:PRO:O	1:B:481:VAL:HG23	0.52	2.03	2	1
1:B:74:GLU:CA	1:B:77:ILE:HG22	0.52	2.34	2	1
1:A:105:HIS:NE2	1:A:109:GLU:OE1	0.52	2.42	1	2
1:A:70:GLU:CD	1:A:71:ALA:N	0.52	2.62	1	1
1:B:263:THR:HG21	1:B:542:PHE:HB3	0.52	1.80	1	1
1:A:176:VAL:HG13	1:A:176:VAL:O	0.52	2.03	2	1
1:A:58:LYS:CD	1:A:58:LYS:C	0.52	2.78	2	1
1:B:116:GLU:OE2	1:B:131:ARG:NH2	0.52	2.42	2	2
1:A:162:ASP:OD1	1:A:163:LEU:N	0.52	2.42	1	1
1:A:199:LEU:O	1:A:199:LEU:CD2	0.52	2.54	1	1
1:A:205:THR:OG1	1:A:208:VAL:HG13	0.52	2.04	1	1
1:A:276:GLY:C	1:A:299:PHE:CE1	0.52	2.82	1	1
1:A:292:VAL:HG13	1:A:329:VAL:HA	0.52	1.81	1	1
1:A:372:ASP:OD1	1:A:373:GLN:N	0.52	2.42	1	1
1:A:5:ILE:HD13	1:A:5:ILE:O	0.52	2.04	2	1
1:A:449:PHE:CZ	1:A:451:ILE:CB	0.52	2.84	1	1
1:B:88:GLU:OE1	1:B:88:GLU:N	0.52	2.42	1	1
1:A:229:VAL:C	1:A:231:PRO:HD3	0.52	2.25	1	2
1:B:173:LEU:CD2	1:B:173:LEU:N	0.52	2.73	1	1
1:B:205:THR:OG1	1:B:208:VAL:HG13	0.52	2.04	1	1
1:B:303:ASP:OD1	1:B:303:ASP:C	0.52	2.48	1	1
1:B:292:VAL:HG13	1:B:329:VAL:HA	0.52	1.80	1	1
1:B:78:MET:HE1	2:D:627:LYS:CG	0.52	2.34	1	1
1:B:451:ILE:HD11	1:B:488:VAL:HG21	0.52	1.81	2	1
1:B:515:LEU:CA	1:B:520:LEU:HD11	0.52	2.31	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:105:HIS:CE1	1:A:109:GLU:OE1	0.52	2.62	1	1
1:A:470:ILE:C	1:A:473:LEU:HD22	0.52	2.10	1	1
1:A:58:LYS:HG3	1:A:73:PHE:CD2	0.52	2.40	2	1
1:A:74:GLU:CA	1:A:77:ILE:HG22	0.52	2.34	2	1
1:B:301:PHE:CD1	1:B:342:LEU:HD22	0.52	2.39	2	1
1:A:173:LEU:N	1:A:173:LEU:CD2	0.52	2.73	1	1
1:A:255:LYS:O	1:A:256:LEU:HB2	0.52	2.04	1	1
1:A:373:GLN:O	1:A:377:ILE:HG22	0.52	2.04	1	1
1:B:58:LYS:HG3	1:B:73:PHE:CD2	0.52	2.39	2	1
1:A:473:LEU:HD23	1:A:474:TYR:N	0.52	2.20	1	1
1:B:373:GLN:O	1:B:377:ILE:HG22	0.52	2.04	1	1
2:C:675:GLU:O	2:C:678:VAL:HG12	0.52	2.05	1	1
1:A:261:ALA:C	1:A:537:ILE:CD1	0.52	2.78	2	1
1:A:263:THR:HG21	1:A:542:PHE:HB3	0.52	1.80	1	1
1:A:492:SER:HA	1:A:497:LYS:CG	0.52	2.35	1	1
2:D:651:GLN:OE1	2:D:651:GLN:N	0.52	2.43	1	1
1:A:337:GLY:O	1:A:358:ARG:HD3	0.52	2.04	2	1
1:B:337:GLY:O	1:B:358:ARG:HD3	0.52	2.04	2	1
1:B:301:PHE:C	1:B:342:LEU:CD2	0.52	2.78	2	1
1:B:304:ARG:NH2	1:B:344:TYR:HB3	0.52	2.20	2	1
1:B:438:ILE:HG23	1:B:441:HIS:HB2	0.52	1.81	2	1
1:A:357:TRP:HB3	1:B:470:ILE:HD11	0.52	1.82	2	1
1:B:261:ALA:C	1:B:537:ILE:CD1	0.52	2.79	2	1
1:A:438:ILE:O	1:A:438:ILE:CG2	0.52	2.58	1	2
1:B:161:ALA:O	1:B:181:THR:HG22	0.52	2.04	1	1
1:B:456:LEU:HD13	1:B:457:THR:H	0.52	1.58	1	1
1:A:126:ARG:HH21	2:C:619:ALA:HB3	0.52	1.49	1	1
1:B:511:ALA:HB1	1:B:515:LEU:CD1	0.51	2.34	2	1
1:B:492:SER:HA	1:B:497:LYS:CG	0.51	2.35	1	1
1:A:451:ILE:HD11	1:A:488:VAL:HG21	0.51	1.81	2	1
1:B:342:LEU:O	1:B:347:PHE:CE1	0.51	2.63	2	1
1:A:454:ASN:O	1:A:458:GLN:OE1	0.51	2.27	1	1
1:A:342:LEU:O	1:A:347:PHE:CE1	0.51	2.62	2	1
1:B:157:ILE:HG13	1:B:177:LEU:HD21	0.51	1.82	2	1
1:B:305:ASP:O	1:B:344:TYR:CD1	0.51	2.63	2	1
1:B:537:ILE:HG13	1:B:538:ARG:N	0.51	2.19	2	1
1:B:557:THR:HB	1:B:560:GLU:OE1	0.51	2.05	1	2
1:A:156:VAL:O	1:A:177:LEU:HD12	0.51	2.05	1	1
1:A:520:LEU:CD2	1:A:522:GLU:H	0.51	2.19	1	1
1:B:192:ILE:HG13	1:B:193:MET:N	0.51	2.21	1	1
1:B:377:ILE:C	1:B:377:ILE:CD1	0.51	2.77	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:70:GLU:CD	1:B:71:ALA:N	0.51	2.63	1	1
1:A:305:ASP:O	1:A:344:TYR:CD1	0.51	2.63	2	1
1:B:511:ALA:HB1	1:B:515:LEU:HD13	0.51	1.81	2	1
1:A:177:LEU:CD1	1:A:177:LEU:H	0.51	2.15	1	1
1:A:317:TYR:CZ	1:A:386:LEU:HD13	0.51	2.40	1	1
1:B:473:LEU:HD23	1:B:474:TYR:N	0.51	2.21	1	1
1:B:520:LEU:CD2	1:B:522:GLU:H	0.51	2.18	1	1
1:A:341:GLU:H	1:A:341:GLU:CD	0.51	2.09	2	1
1:B:157:ILE:HG12	1:B:177:LEU:CG	0.51	2.36	2	1
1:B:394:ILE:H	1:B:394:ILE:CD1	0.51	2.12	2	1
2:C:612:ASN:O	2:C:615:HIS:CE1	0.51	2.64	2	1
1:B:246:VAL:CG2	1:B:247:ALA:N	0.51	2.73	1	1
1:B:456:LEU:CD2	1:B:456:LEU:C	0.51	2.78	1	1
1:A:334:MET:HB2	1:A:336:ILE:HD11	0.51	1.82	2	1
2:C:651:GLN:N	2:C:651:GLN:OE1	0.51	2.43	1	2
1:B:438:ILE:CG2	1:B:438:ILE:O	0.51	2.58	1	2
1:A:192:ILE:HG13	1:A:193:MET:N	0.51	2.20	1	1
1:A:456:LEU:HD11	1:A:481:VAL:HG11	0.51	1.79	1	1
1:B:156:VAL:O	1:B:177:LEU:HD12	0.51	2.05	1	1
1:B:304:ARG:NH2	1:B:312:GLU:OE2	0.51	2.38	1	1
1:A:301:PHE:CD1	1:A:342:LEU:HD22	0.51	2.41	2	1
1:A:449:PHE:CZ	1:A:451:ILE:N	0.51	2.78	1	1
1:A:116:GLU:OE2	1:A:131:ARG:NH2	0.51	2.42	2	2
1:A:304:ARG:O	1:A:304:ARG:HD3	0.51	2.05	2	1
1:A:18:LEU:CD1	1:A:209:THR:OG1	0.51	2.59	1	1
1:B:18:LEU:CD1	1:B:209:THR:OG1	0.51	2.59	1	1
1:B:354:PHE:O	1:B:358:ARG:CZ	0.51	2.59	1	1
2:D:675:GLU:O	2:D:678:VAL:HG12	0.51	2.05	1	1
1:B:229:VAL:C	1:B:231:PRO:HD3	0.51	2.25	2	2
1:B:51:SER:HA	1:B:54:LEU:CD2	0.51	2.31	2	1
1:B:74:GLU:HA	1:B:77:ILE:HG22	0.51	1.80	2	1
1:A:377:ILE:CD1	1:A:377:ILE:C	0.51	2.77	1	1
1:B:158:LEU:O	1:B:180:ILE:HG23	0.51	2.06	1	1
1:B:126:ARG:HG2	2:D:651:GLN:CG	0.51	2.36	2	1
1:A:46:GLY:O	1:A:140:ASN:OD1	0.51	2.29	1	1
1:A:470:ILE:HB	1:A:473:LEU:CD2	0.51	2.35	1	1
1:B:337:GLY:C	1:B:358:ARG:HG2	0.51	2.27	1	1
1:A:358:ARG:HA	1:A:358:ARG:HE	0.50	1.64	2	1
1:B:275:ILE:HG22	1:B:280:ASP:CB	0.50	2.35	2	1
2:D:612:ASN:O	2:D:615:HIS:CE1	0.50	2.64	2	1
2:D:651:GLN:N	2:D:651:GLN:OE1	0.50	2.43	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:331:VAL:O	1:B:331:VAL:CG1	0.50	2.59	1	1
1:B:520:LEU:HD23	1:B:521:ASP:H	0.50	1.65	1	1
1:A:157:ILE:HG12	1:A:177:LEU:CG	0.50	2.36	2	1
1:A:297:THR:HG23	1:A:332:ARG:O	0.50	2.07	2	1
1:A:301:PHE:C	1:A:342:LEU:CD2	0.50	2.79	2	1
1:A:354:PHE:O	1:A:358:ARG:CZ	0.50	2.59	1	1
1:B:374:LEU:HA	1:B:377:ILE:HG23	0.50	1.81	1	1
1:A:272:CYS:HG	1:A:273:ALA:N	0.50	2.04	2	1
1:A:331:VAL:CG1	1:A:331:VAL:O	0.50	2.59	1	1
1:B:449:PHE:CZ	1:B:451:ILE:N	0.50	2.79	1	1
1:B:449:PHE:CZ	1:B:451:ILE:CB	0.50	2.84	1	1
1:B:341:GLU:H	1:B:341:GLU:CD	0.50	2.09	2	1
1:A:556:PRO:HB3	1:B:441:HIS:CE1	0.50	2.41	2	2
1:B:105:HIS:CD2	1:B:109:GLU:OE1	0.50	2.65	2	1
1:B:275:ILE:HG22	1:B:280:ASP:HB3	0.50	1.83	2	1
1:B:463:VAL:CG2	1:B:473:LEU:CD2	0.50	2.87	1	1
1:A:301:PHE:CE1	1:A:304:ARG:NH2	0.50	2.79	2	1
1:A:467:ASN:O	1:A:467:ASN:CG	0.50	2.50	2	1
1:B:79:LEU:O	1:B:82:ASP:OD1	0.50	2.28	2	2
1:A:177:LEU:CD1	1:A:177:LEU:C	0.50	2.78	2	1
1:A:557:THR:HB	1:A:560:GLU:OE1	0.50	2.05	2	2
1:B:350:GLU:OE1	1:B:357:TRP:CZ2	0.50	2.65	2	1
1:A:520:LEU:HD23	1:A:521:ASP:H	0.50	1.65	1	1
1:B:448:PHE:C	1:B:497:LYS:NZ	0.50	2.66	1	1
1:A:226:GLN:OE1	1:A:228:TYR:CZ	0.49	2.65	2	1
1:B:355:LEU:N	1:B:355:LEU:HD23	0.49	2.22	2	1
1:A:337:GLY:C	1:A:358:ARG:HG2	0.49	2.26	1	1
1:B:449:PHE:CE2	1:B:500:GLY:N	0.49	2.80	1	1
1:A:157:ILE:HG13	1:A:177:LEU:HD21	0.49	1.82	2	1
1:A:205:THR:OG1	1:A:208:VAL:CG2	0.49	2.57	1	1
1:A:314:PHE:CG	1:A:376:ALA:HA	0.49	2.37	1	1
1:A:448:PHE:C	1:A:497:LYS:NZ	0.49	2.66	1	1
1:B:46:GLY:O	1:B:140:ASN:ND2	0.49	2.43	1	1
1:A:459:TYR:HB3	1:B:459:TYR:O	0.49	2.07	1	2
1:A:350:GLU:OE1	1:A:357:TRP:CZ2	0.49	2.65	2	1
1:A:358:ARG:CA	1:A:358:ARG:NE	0.49	2.76	2	1
1:B:297:THR:HG23	1:B:332:ARG:O	0.49	2.07	2	1
1:B:511:ALA:O	1:B:515:LEU:HD13	0.49	2.07	2	1
1:B:54:LEU:O	1:B:73:PHE:CE1	0.49	2.66	2	1
1:A:126:ARG:HG2	2:C:651:GLN:CG	0.49	2.37	2	1
1:B:221:ASP:CA	1:B:239:MET:CE	0.49	2.78	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:314:PHE:HE2	1:A:379:ARG:CB	0.49	2.12	1	1
1:B:78:MET:CE	2:D:627:LYS:HB2	0.49	2.38	1	1
1:A:105:HIS:CD2	1:A:109:GLU:OE1	0.49	2.66	2	1
1:B:298:GLU:OE2	1:B:342:LEU:HD11	0.49	2.07	2	1
1:B:356:GLY:C	1:B:358:ARG:HG2	0.49	2.28	2	1
1:B:467:ASN:O	1:B:467:ASN:CG	0.49	2.50	2	1
1:B:51:SER:O	1:B:54:LEU:CD1	0.49	2.61	2	1
1:A:295:TYR:CD2	1:A:331:VAL:HG23	0.49	2.42	1	1
1:B:232:THR:HG22	1:B:233:ASN:H	0.49	1.34	1	1
1:B:89:ILE:HD11	1:B:90:ILE:HG23	0.49	1.85	1	1
1:A:51:SER:O	1:A:54:LEU:CD1	0.49	2.61	2	1
1:A:54:LEU:CD1	1:A:55:GLU:N	0.49	2.69	2	1
1:A:317:TYR:CE1	1:A:331:VAL:CG2	0.49	2.96	1	1
1:A:463:VAL:CG2	1:A:473:LEU:CD2	0.49	2.86	1	1
1:B:317:TYR:OH	1:B:386:LEU:HB3	0.49	2.07	1	1
1:A:275:ILE:HG22	1:A:280:ASP:CB	0.49	2.36	2	1
1:A:511:ALA:O	1:A:515:LEU:HD13	0.49	2.08	2	1
1:B:221:ASP:C	1:B:223:VAL:N	0.49	2.66	2	2
1:A:347:PHE:CD2	1:A:347:PHE:C	0.49	2.86	1	1
1:A:302:MET:HG2	1:A:342:LEU:CD1	0.49	2.37	2	1
1:B:358:ARG:CA	1:B:358:ARG:NE	0.49	2.76	2	1
1:A:86:GLU:O	1:A:90:ILE:CG1	0.49	2.61	1	1
1:B:101:ASP:HB2	1:B:138:LEU:HD21	0.49	1.85	1	1
1:B:263:THR:CG2	1:B:267:HIS:H	0.49	2.14	1	1
1:A:189:HIS:O	1:A:193:MET:SD	0.49	2.70	2	1
1:A:337:GLY:HA3	1:A:358:ARG:NH2	0.49	2.23	2	1
1:A:470:ILE:HD11	1:B:357:TRP:HB3	0.49	1.84	2	1
1:A:233:ASN:O	1:A:237:ASP:OD2	0.49	2.31	1	2
1:A:101:ASP:HB2	1:A:138:LEU:HD21	0.49	1.84	1	1
1:A:342:LEU:HD13	1:A:343:PRO:HD2	0.49	1.85	1	1
1:B:285:GLU:HG3	1:B:286:ARG:N	0.49	2.23	1	1
1:B:295:TYR:CD2	1:B:331:VAL:HG23	0.49	2.43	1	1
1:B:342:LEU:HD13	1:B:343:PRO:HD2	0.49	1.84	1	1
1:B:46:GLY:O	1:B:140:ASN:OD1	0.49	2.30	1	1
1:B:530:ILE:O	1:B:533:ILE:HG12	0.49	2.07	1	1
1:A:54:LEU:O	1:A:73:PHE:CE1	0.48	2.66	2	1
1:B:304:ARG:HD3	1:B:304:ARG:O	0.48	2.08	2	1
1:B:54:LEU:CD1	1:B:55:GLU:N	0.48	2.69	2	1
1:B:74:GLU:CA	1:B:77:ILE:CG2	0.48	2.90	2	1
1:A:78:MET:CE	2:C:627:LYS:HB2	0.48	2.38	1	1
1:B:140:ASN:O	1:B:140:ASN:ND2	0.48	2.46	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:451:ILE:HG23	1:B:451:ILE:O	0.48	2.08	1	1
1:A:449:PHE:CE2	1:A:500:GLY:N	0.48	2.80	1	1
1:A:89:ILE:HD11	1:A:90:ILE:HG23	0.48	1.83	1	1
1:B:86:GLU:O	1:B:90:ILE:CG1	0.48	2.61	1	1
1:A:345:MET:HB3	1:A:347:PHE:CZ	0.48	2.44	2	1
1:B:350:GLU:OE1	1:B:357:TRP:CE2	0.48	2.67	2	1
1:A:530:ILE:O	1:A:533:ILE:HG12	0.48	2.07	1	1
1:B:177:LEU:H	1:B:177:LEU:CD1	0.48	2.16	1	1
1:B:314:PHE:HE2	1:B:379:ARG:CB	0.48	2.12	1	1
1:A:126:ARG:CD	2:C:651:GLN:NE2	0.48	2.77	1	1
1:A:269:VAL:HG12	1:A:270:GLU:N	0.48	2.23	2	1
1:B:226:GLN:OE1	1:B:228:TYR:CZ	0.48	2.66	2	1
1:B:334:MET:HB2	1:B:336:ILE:HD11	0.48	1.83	2	1
1:B:111:GLN:OE1	2:D:648:PHE:CB	0.48	2.30	1	1
1:A:221:ASP:C	1:A:223:VAL:N	0.48	2.66	2	2
1:A:557:THR:HG22	1:A:560:GLU:H	0.48	1.69	2	2
1:B:189:HIS:O	1:B:193:MET:SD	0.48	2.71	2	1
1:B:233:ASN:O	1:B:237:ASP:OD2	0.48	2.31	2	2
1:B:314:PHE:CE1	1:B:376:ALA:HA	0.48	2.38	1	1
1:B:389:MET:CE	1:B:429:MET:SD	0.48	3.02	2	1
1:A:451:ILE:HG23	1:A:451:ILE:O	0.48	2.08	1	1
1:A:501:MET:CG	1:A:520:LEU:HD11	0.48	2.38	1	1
1:A:85:LEU:HD23	1:A:85:LEU:O	0.48	2.09	2	1
1:B:254:ALA:O	1:B:256:LEU:HD12	0.48	2.09	1	1
1:B:489:ILE:CA	1:B:499:THR:HG21	0.48	2.30	1	1
1:A:219:ILE:CD1	1:A:236:ILE:HG12	0.48	2.36	2	2
1:A:51:SER:HA	1:A:54:LEU:CD2	0.48	2.31	2	1
1:A:158:LEU:HD21	1:A:163:LEU:HD11	0.48	1.85	1	1
1:A:367:ARG:C	1:A:371:ARG:CG	0.48	2.78	2	1
1:A:537:ILE:CG1	1:A:538:ARG:N	0.48	2.77	2	1
1:B:11:ILE:CG2	1:B:239:MET:HE3	0.48	2.39	2	2
1:B:337:GLY:HA3	1:B:358:ARG:NH2	0.48	2.24	2	1
1:A:462:ALA:HA	1:B:355:LEU:HD13	0.48	1.85	2	1
1:B:301:PHE:O	1:B:304:ARG:HD2	0.48	2.06	2	1
1:B:557:THR:HG22	1:B:560:GLU:H	0.48	1.69	1	2
1:A:130:VAL:CG2	1:A:131:ARG:N	0.48	2.77	1	1
1:A:260:PRO:CG	1:A:290:GLU:HG3	0.48	2.39	1	1
1:A:292:VAL:HG11	1:A:329:VAL:HG13	0.48	1.85	1	1
1:A:317:TYR:CZ	1:A:331:VAL:CB	0.48	2.96	1	1
1:A:317:TYR:HD2	1:A:317:TYR:O	0.48	1.91	1	1
1:B:181:THR:HG22	1:B:182:ASP:N	0.48	2.24	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:292:VAL:HG11	1:B:329:VAL:HG13	0.48	1.84	1	1
1:B:182:ASP:N	1:B:182:ASP:OD1	0.47	2.47	2	1
1:B:219:ILE:CD1	1:B:236:ILE:HG12	0.47	2.36	2	2
1:B:269:VAL:HG12	1:B:270:GLU:N	0.47	2.23	2	1
1:B:367:ARG:C	1:B:371:ARG:CG	0.47	2.79	2	1
1:A:10:GLY:O	1:A:221:ASP:O	0.47	2.32	1	2
1:A:562:MET:CE	1:A:562:MET:CG	0.47	2.92	1	1
1:B:126:ARG:CD	2:D:651:GLN:NE2	0.47	2.77	1	1
1:B:470:ILE:C	1:B:473:LEU:HD22	0.47	2.09	1	1
1:A:356:GLY:C	1:A:358:ARG:HG2	0.47	2.28	2	1
1:A:58:LYS:HB2	1:A:73:PHE:CD1	0.47	2.43	2	1
1:B:10:GLY:O	1:B:221:ASP:O	0.47	2.32	2	2
1:B:537:ILE:CG1	1:B:538:ARG:N	0.47	2.77	2	1
1:A:317:TYR:OH	1:A:386:LEU:HB3	0.47	2.08	1	1
1:B:177:LEU:N	1:B:177:LEU:CD1	0.47	2.74	1	1
1:B:292:VAL:HG11	1:B:329:VAL:CG2	0.47	2.36	1	1
1:A:256:LEU:O	1:A:257:LYS:C	0.47	2.52	2	1
1:A:360:ILE:HD11	1:A:391:PRO:HD2	0.47	1.86	2	1
1:A:513:LEU:HD22	1:A:513:LEU:N	0.47	2.22	1	1
1:A:501:MET:SD	1:A:515:LEU:HD22	0.47	2.50	1	1
1:A:345:MET:CB	1:A:347:PHE:CZ	0.47	2.97	2	1
1:A:438:ILE:HG23	1:A:441:HIS:HB2	0.47	1.86	2	1
1:B:345:MET:HB3	1:B:347:PHE:CZ	0.47	2.44	2	1
1:B:50:ALA:O	1:B:54:LEU:HD23	0.47	2.09	2	1
1:B:347:PHE:C	1:B:347:PHE:CD2	0.47	2.85	1	1
1:A:58:LYS:HG3	1:A:73:PHE:CE2	0.47	2.44	2	1
1:B:146:ILE:HD13	1:B:146:ILE:N	0.47	2.25	2	1
1:B:301:PHE:CD1	1:B:301:PHE:O	0.47	2.67	2	1
1:B:58:LYS:HG3	1:B:73:PHE:CE2	0.47	2.44	2	1
1:B:158:LEU:HD21	1:B:163:LEU:HD11	0.47	1.85	1	1
1:A:535:LYS:O	1:A:539:ASN:ND2	0.47	2.48	2	1
1:A:74:GLU:O	1:A:77:ILE:CG2	0.47	2.63	2	1
1:B:562:MET:CE	1:B:562:MET:CG	0.47	2.92	2	1
1:A:158:LEU:O	1:A:180:ILE:HG23	0.47	2.09	1	1
1:A:463:VAL:HG21	1:A:473:LEU:HD21	0.47	1.75	1	1
1:A:51:SER:OG	1:A:52:ALA:N	0.47	2.47	1	1
1:B:317:TYR:O	1:B:317:TYR:HD2	0.47	1.91	1	1
1:B:501:MET:CG	1:B:520:LEU:HD11	0.47	2.40	1	1
1:A:182:ASP:N	1:A:182:ASP:OD1	0.47	2.47	2	1
1:A:301:PHE:O	1:A:301:PHE:CD1	0.47	2.68	2	1
1:A:304:ARG:HG2	1:A:306:ALA:O	0.47	2.09	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:287:ASN:O	1:B:530:ILE:CG1	0.47	2.63	2	1
1:B:345:MET:CB	1:B:347:PHE:CZ	0.47	2.98	2	1
1:B:360:ILE:CD1	1:B:390:PHE:CG	0.47	2.98	2	1
2:C:674:VAL:O	2:C:678:VAL:HG23	0.47	2.09	2	1
2:C:679:LYS:HZ1	2:C:683:GLU:CD	0.47	2.13	2	1
1:B:126:ARG:NH1	2:D:651:GLN:CD	0.47	2.68	2	1
1:B:58:LYS:HB2	1:B:73:PHE:CD1	0.47	2.45	2	1
2:D:674:VAL:O	2:D:678:VAL:HG23	0.47	2.10	2	1
1:A:10:GLY:O	1:A:11:ILE:CD1	0.47	2.59	1	2
1:A:11:ILE:CG2	1:A:239:MET:HE3	0.47	2.40	1	2
1:A:126:ARG:O	1:A:130:VAL:HG13	0.47	2.09	1	1
1:B:474:TYR:CG	1:B:474:TYR:O	0.47	2.67	1	1
1:B:489:ILE:HA	1:B:499:THR:CG2	0.47	2.29	1	1
1:B:492:SER:O	1:B:497:LYS:HG2	0.47	2.10	1	1
1:B:259:LEU:CB	1:B:260:PRO:CD	0.47	2.93	1	1
1:B:314:PHE:CG	1:B:376:ALA:HA	0.47	2.37	1	1
1:B:43:PHE:CZ	1:B:47:ARG:NE	0.47	2.82	1	1
1:B:269:VAL:HG12	1:B:270:GLU:O	0.47	2.10	2	1
2:C:679:LYS:NZ	2:C:683:GLU:CD	0.47	2.68	2	1
1:A:398:GLU:OE1	1:A:398:GLU:N	0.47	2.47	1	1
1:A:389:MET:CE	1:A:429:MET:SD	0.47	3.02	2	1
1:B:157:ILE:HG12	1:B:177:LEU:CD1	0.47	2.40	2	1
1:B:470:ILE:O	1:B:470:ILE:HG22	0.47	2.10	2	1
1:B:515:LEU:CD1	1:B:515:LEU:N	0.47	2.78	2	1
1:A:449:PHE:CE1	1:A:488:VAL:CG1	0.47	2.97	1	1
1:A:463:VAL:CG1	1:A:473:LEU:CG	0.47	2.88	1	1
1:A:123:LEU:CD1	1:A:123:LEU:N	0.47	2.78	2	1
1:A:221:ASP:O	1:A:223:VAL:N	0.47	2.48	2	2
1:A:84:GLU:OE2	2:C:648:PHE:CD1	0.47	2.68	2	1
1:B:108:ILE:HG23	1:B:109:GLU:N	0.47	2.25	2	1
1:B:221:ASP:O	1:B:223:VAL:N	0.47	2.48	2	2
1:A:181:THR:HG22	1:A:182:ASP:N	0.47	2.24	1	1
1:B:149:LEU:N	1:B:149:LEU:HD12	0.47	2.25	1	1
1:A:146:ILE:HD13	1:A:146:ILE:N	0.46	2.24	2	1
1:A:350:GLU:OE1	1:A:357:TRP:CE2	0.46	2.68	2	1
1:A:457:THR:HG23	1:A:458:GLN:N	0.46	2.25	2	1
1:A:5:ILE:CD1	1:A:5:ILE:O	0.46	2.63	2	1
1:B:177:LEU:CD1	1:B:177:LEU:C	0.46	2.78	2	1
1:B:515:LEU:HB3	1:B:520:LEU:CD2	0.46	2.40	2	1
1:B:6:LEU:CD2	1:B:6:LEU:N	0.46	2.75	2	1
1:A:140:ASN:O	1:A:140:ASN:ND2	0.46	2.48	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:149:LEU:N	1:A:149:LEU:HD12	0.46	2.25	1	1
1:A:164:THR:OG1	1:A:167:GLU:OE1	0.46	2.33	1	1
1:A:255:LYS:O	1:A:256:LEU:CB	0.46	2.62	1	1
1:A:369:ILE:O	1:A:372:ASP:OD2	0.46	2.33	1	1
1:B:140:ASN:ND2	1:B:140:ASN:C	0.46	2.68	1	1
1:B:369:ILE:O	1:B:372:ASP:OD2	0.46	2.33	1	1
1:B:51:SER:OG	1:B:52:ALA:N	0.46	2.47	1	1
1:A:515:LEU:N	1:A:515:LEU:CD1	0.46	2.79	2	1
1:B:304:ARG:CZ	1:B:304:ARG:O	0.46	2.63	2	1
1:B:457:THR:HG23	1:B:458:GLN:N	0.46	2.26	2	1
1:A:260:PRO:HG2	1:A:268:GLN:HE21	0.46	1.69	1	1
1:A:330:ILE:N	1:A:330:ILE:CD1	0.46	2.78	1	1
1:A:314:PHE:CE1	1:A:376:ALA:HA	0.46	2.38	1	1
1:A:390:PHE:CD2	1:A:390:PHE:N	0.46	2.80	1	1
1:A:492:SER:O	1:A:497:LYS:HG2	0.46	2.10	1	1
1:A:43:PHE:CE2	1:A:89:ILE:HD13	0.46	2.46	1	1
1:B:304:ARG:NH2	1:B:312:GLU:CD	0.46	2.69	1	1
1:B:501:MET:SD	1:B:515:LEU:HD22	0.46	2.50	1	1
1:A:272:CYS:SG	1:A:273:ALA:O	0.46	2.73	2	1
1:B:74:GLU:O	1:B:77:ILE:CG2	0.46	2.63	2	1
1:A:260:PRO:HG3	1:A:290:GLU:HG3	0.46	1.86	1	1
1:B:147:ILE:HG23	1:B:148:ASP:N	0.46	2.25	1	1
1:B:330:ILE:CD1	1:B:330:ILE:N	0.46	2.78	1	1
1:B:126:ARG:HD3	2:D:651:GLN:NE2	0.46	2.25	1	1
1:A:50:ALA:O	1:A:54:LEU:HD23	0.46	2.09	2	1
1:B:304:ARG:CD	1:B:304:ARG:C	0.46	2.84	2	1
2:C:617:ARG:HB3	2:C:618:PRO:HD3	0.46	1.87	2	1
1:B:5:ILE:O	1:B:6:LEU:O	0.46	2.34	1	2
1:A:43:PHE:CZ	1:A:47:ARG:NE	0.46	2.83	1	1
1:A:113:SER:O	1:A:117:GLU:OE2	0.46	2.34	2	1
1:A:157:ILE:HG12	1:A:177:LEU:CD1	0.46	2.40	2	1
1:A:5:ILE:O	1:A:6:LEU:O	0.46	2.34	1	2
1:A:147:ILE:HG23	1:A:148:ASP:N	0.46	2.25	1	1
1:A:179:PHE:CD2	1:A:179:PHE:C	0.46	2.89	1	1
1:B:179:PHE:CD2	1:B:179:PHE:C	0.46	2.89	1	1
1:B:390:PHE:N	1:B:390:PHE:CD2	0.46	2.79	1	1
1:B:66:GLY:CA	1:B:68:GLU:OE2	0.46	2.64	1	1
1:A:264:LEU:CD2	1:A:264:LEU:C	0.46	2.84	2	1
1:A:269:VAL:HG12	1:A:270:GLU:O	0.46	2.09	2	1
1:B:485:ILE:CG2	1:B:486:LYS:N	0.46	2.79	2	1
1:B:522:GLU:OE1	1:B:523:PHE:O	0.46	2.34	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:74:GLU:CA	1:A:77:ILE:CG2	0.46	2.90	2	1
1:B:27:ASP:N	1:B:27:ASP:OD1	0.46	2.48	2	2
1:B:294:LEU:HD23	1:B:294:LEU:C	0.46	2.30	2	1
1:B:85:LEU:O	1:B:85:LEU:HD23	0.46	2.10	2	1
1:A:27:ASP:N	1:A:27:ASP:OD1	0.46	2.49	1	2
1:A:520:LEU:CD2	1:A:520:LEU:C	0.46	2.84	1	1
1:A:333:THR:OG1	1:A:390:PHE:CD1	0.46	2.64	2	1
1:A:470:ILE:HG22	1:A:470:ILE:O	0.46	2.10	2	1
1:B:360:ILE:HD11	1:B:391:PRO:HD2	0.46	1.86	2	1
1:A:11:ILE:CG2	1:A:239:MET:CE	0.46	2.93	1	2
1:A:459:TYR:O	1:B:459:TYR:HB3	0.46	2.10	1	2
1:A:276:GLY:CA	1:A:299:PHE:CZ	0.46	2.95	1	1
1:A:66:GLY:CA	1:A:68:GLU:OE2	0.46	2.64	1	1
1:B:332:ARG:NH1	1:B:335:ASP:N	0.46	2.64	1	1
1:B:520:LEU:CD2	1:B:520:LEU:C	0.46	2.83	1	1
1:A:108:ILE:HG23	1:A:109:GLU:N	0.46	2.25	2	1
1:A:298:GLU:OE2	1:A:342:LEU:HD11	0.46	2.11	2	1
1:B:12:ALA:CB	1:B:177:LEU:HD13	0.46	2.33	2	1
1:B:5:ILE:O	1:B:5:ILE:CD1	0.46	2.63	2	1
1:B:11:ILE:CG2	1:B:239:MET:CE	0.46	2.94	1	2
1:B:130:VAL:CG2	1:B:131:ARG:N	0.46	2.79	1	1
1:B:455:ASP:OD1	1:B:459:TYR:CZ	0.46	2.68	1	1
1:A:6:LEU:CD2	1:A:6:LEU:N	0.46	2.76	2	1
1:B:107:VAL:CG2	1:B:108:ILE:H	0.46	2.24	2	1
1:B:110:GLY:O	1:B:113:SER:OG	0.46	2.31	2	1
1:B:272:CYS:SG	1:B:273:ALA:O	0.46	2.73	2	1
1:B:277:THR:O	1:B:278:VAL:C	0.46	2.54	2	2
1:A:123:LEU:N	1:A:123:LEU:HD12	0.46	2.26	1	2
1:B:449:PHE:CE1	1:B:488:VAL:CG1	0.46	2.97	1	1
1:B:470:ILE:HB	1:B:473:LEU:HD22	0.46	1.86	1	1
1:A:294:LEU:HD23	1:A:294:LEU:C	0.45	2.31	2	1
1:B:259:LEU:CB	1:B:262:ILE:CG1	0.45	2.90	2	1
1:B:10:GLY:O	1:B:11:ILE:CD1	0.45	2.61	1	2
1:A:161:ALA:O	1:A:182:ASP:OD1	0.45	2.34	1	1
1:A:292:VAL:HG11	1:A:329:VAL:CG2	0.45	2.35	1	1
1:B:317:TYR:CE1	1:B:331:VAL:CG2	0.45	2.98	1	1
1:B:66:GLY:N	1:B:68:GLU:OE2	0.45	2.49	1	1
1:A:126:ARG:HD3	2:C:651:GLN:NE2	0.45	2.25	1	1
1:A:177:LEU:CD1	1:A:177:LEU:O	0.45	2.60	2	1
1:A:522:GLU:OE1	1:A:523:PHE:O	0.45	2.35	2	1
1:A:261:ALA:HA	1:A:537:ILE:CD1	0.45	2.41	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:277:THR:O	1:B:279:ARG:N	0.45	2.49	2	2
1:B:535:LYS:O	1:B:539:ASN:ND2	0.45	2.49	2	1
1:A:470:ILE:HB	1:A:473:LEU:HD22	0.45	1.87	1	1
1:A:4:GLY:HA3	1:A:202:ILE:CD1	0.45	2.42	1	1
1:B:164:THR:OG1	1:B:167:GLU:OE1	0.45	2.33	1	1
1:B:43:PHE:CE2	1:B:89:ILE:HD13	0.45	2.46	1	1
1:A:278:VAL:O	1:A:281:VAL:HG13	0.45	2.10	2	1
1:A:360:ILE:CD1	1:A:390:PHE:CG	0.45	3.00	2	1
1:B:123:LEU:CD1	1:B:123:LEU:N	0.45	2.79	2	1
1:A:126:ARG:NH2	2:C:616:THR:HA	0.45	2.27	1	1
1:B:123:LEU:N	1:B:123:LEU:HD12	0.45	2.26	1	1
1:B:317:TYR:CZ	1:B:331:VAL:CB	0.45	2.97	1	1
2:C:678:VAL:HG13	2:C:679:LYS:N	0.45	2.27	1	1
2:D:617:ARG:HB3	2:D:618:PRO:HD3	0.45	1.87	2	1
1:A:277:THR:O	1:A:279:ARG:N	0.45	2.49	1	2
1:B:87:GLN:O	1:B:90:ILE:HG13	0.45	2.11	1	1
1:A:126:ARG:NE	2:C:651:GLN:NE2	0.45	2.64	1	1
1:B:268:GLN:OE1	1:B:268:GLN:O	0.45	2.35	2	1
1:B:118:LEU:CD2	1:B:118:LEU:N	0.45	2.79	1	1
1:B:513:LEU:HD22	1:B:513:LEU:N	0.45	2.22	1	1
1:B:521:ASP:O	1:B:521:ASP:OD1	0.45	2.35	1	1
1:A:309:THR:HG23	1:A:312:GLU:H	0.45	1.72	2	1
1:B:255:LYS:O	1:B:256:LEU:HB3	0.45	2.12	2	1
1:B:478:SER:HB3	1:B:481:VAL:HG22	0.45	1.88	2	1
1:A:161:ALA:C	1:A:181:THR:CG2	0.45	2.85	1	1
1:B:161:ALA:C	1:B:181:THR:CG2	0.45	2.85	1	1
1:A:11:ILE:HG23	1:A:239:MET:HE2	0.45	1.89	2	2
1:A:12:ALA:HB1	1:A:177:LEU:CD1	0.45	2.34	2	1
1:A:287:ASN:O	1:A:530:ILE:CG1	0.45	2.64	2	1
1:B:264:LEU:C	1:B:264:LEU:CD2	0.45	2.84	2	1
1:B:294:LEU:HD23	1:B:295:TYR:N	0.45	2.27	2	1
1:B:80:LEU:HD13	1:B:80:LEU:C	0.45	2.32	2	1
1:A:118:LEU:N	1:A:118:LEU:CD2	0.45	2.79	1	1
1:A:192:ILE:CD1	1:A:192:ILE:C	0.45	2.85	1	1
1:A:203:VAL:HG22	1:A:203:VAL:O	0.45	2.12	1	1
1:B:161:ALA:O	1:B:182:ASP:OD1	0.45	2.35	1	1
1:B:301:PHE:HD2	1:B:342:LEU:HG	0.45	1.72	1	1
1:B:436:ALA:HB1	1:B:484:LEU:HG	0.45	1.89	1	1
1:A:485:ILE:CG2	1:A:486:LYS:N	0.45	2.79	2	1
1:B:123:LEU:HD12	1:B:123:LEU:N	0.45	2.27	2	1
1:B:301:PHE:O	1:B:304:ARG:HD3	0.45	2.09	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:162:ASP:HA	1:A:181:THR:CG2	0.45	2.36	1	1
1:A:66:GLY:N	1:A:68:GLU:OE2	0.45	2.49	1	1
1:B:85:LEU:O	1:B:89:ILE:HG23	0.45	2.12	1	1
1:B:78:MET:HE2	2:D:627:LYS:HD2	0.45	1.51	1	1
1:A:121:GLU:O	1:A:125:GLU:OE2	0.45	2.35	2	1
1:A:268:GLN:O	1:A:268:GLN:OE1	0.45	2.35	2	1
1:B:51:SER:O	1:B:54:LEU:CG	0.45	2.65	2	1
1:A:126:ARG:NH1	2:C:651:GLN:CD	0.45	2.71	2	1
1:A:140:ASN:C	1:A:140:ASN:ND2	0.45	2.70	1	1
1:A:301:PHE:HD2	1:A:342:LEU:HG	0.45	1.72	1	1
1:A:317:TYR:OH	1:A:331:VAL:CB	0.45	2.59	1	1
1:A:470:ILE:O	1:A:473:LEU:HD23	0.45	1.94	1	1
1:B:205:THR:OG1	1:B:208:VAL:CG2	0.45	2.58	1	1
1:B:317:TYR:OH	1:B:331:VAL:CB	0.45	2.61	1	1
2:D:678:VAL:HG13	2:D:679:LYS:N	0.45	2.26	1	1
1:A:89:ILE:HD13	1:A:89:ILE:O	0.44	2.12	2	1
1:A:89:ILE:HG13	1:A:90:ILE:H	0.44	1.73	1	1
1:B:463:VAL:HG11	1:B:473:LEU:CG	0.44	2.14	1	1
1:B:90:ILE:CD1	1:B:91:ALA:N	0.44	2.77	1	1
1:B:126:ARG:NE	2:D:651:GLN:NE2	0.44	2.64	1	1
1:A:277:THR:O	1:A:278:VAL:C	0.44	2.54	2	2
1:A:51:SER:O	1:A:54:LEU:CG	0.44	2.65	2	1
1:B:113:SER:O	1:B:117:GLU:OE2	0.44	2.34	2	1
1:B:357:TRP:O	1:B:358:ARG:NH2	0.44	2.50	2	1
1:A:332:ARG:NH1	1:A:335:ASP:N	0.44	2.64	1	1
1:A:90:ILE:CD1	1:A:91:ALA:N	0.44	2.78	1	1
1:B:203:VAL:O	1:B:203:VAL:HG22	0.44	2.12	1	1
1:A:556:PRO:O	1:B:396:VAL:CG2	0.44	2.65	2	2
1:B:121:GLU:O	1:B:125:GLU:OE2	0.44	2.36	2	1
1:B:484:LEU:O	1:B:488:VAL:HG23	0.44	2.12	2	2
1:A:110:GLY:O	1:A:113:SER:OG	0.44	2.32	2	1
1:B:269:VAL:CB	1:B:523:PHE:CZ	0.44	3.00	2	1
1:B:431:GLU:OE1	1:B:431:GLU:O	0.44	2.36	2	1
1:A:489:ILE:CA	1:A:499:THR:HG21	0.44	2.30	1	1
1:A:484:LEU:O	1:A:488:VAL:HG23	0.44	2.12	2	2
1:B:172:ASN:O	1:B:175:LYS:HD2	0.44	2.13	2	1
1:B:521:ASP:OD1	1:B:521:ASP:O	0.44	2.35	2	1
1:A:521:ASP:O	1:A:521:ASP:OD1	0.44	2.34	1	2
1:A:448:PHE:C	1:A:497:LYS:HZ1	0.44	2.15	1	1
1:A:85:LEU:O	1:A:89:ILE:HG23	0.44	2.12	1	1
1:B:138:LEU:O	1:B:141:ILE:CG2	0.44	2.65	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:332:ARG:HH12	1:B:334:MET:HA	0.44	1.72	1	1
1:B:470:ILE:O	1:B:473:LEU:HD23	0.44	1.93	1	1
1:A:225:ASN:OD1	1:A:225:ASN:N	0.44	2.51	2	1
1:A:294:LEU:HD23	1:A:295:TYR:N	0.44	2.27	2	1
1:A:295:TYR:HB3	1:A:331:VAL:HA	0.44	1.90	2	2
1:A:80:LEU:HD13	1:A:80:LEU:C	0.44	2.32	2	1
1:B:54:LEU:HD22	1:B:77:ILE:HD13	0.44	1.90	2	1
2:D:679:LYS:NZ	2:D:683:GLU:CD	0.44	2.71	2	1
1:B:463:VAL:CG1	1:B:473:LEU:CG	0.44	2.89	1	1
2:C:680:LEU:O	2:C:684:LEU:HG	0.44	2.13	1	1
1:A:357:TRP:O	1:A:358:ARG:NH2	0.44	2.50	2	1
1:B:84:GLU:OE2	2:D:648:PHE:CD1	0.44	2.71	2	1
2:C:650:LEU:C	2:C:652:THR:N	0.44	2.71	1	2
1:A:101:ASP:N	1:A:101:ASP:OD1	0.44	2.50	1	1
1:A:455:ASP:OD1	1:A:459:TYR:CZ	0.44	2.70	1	1
1:B:192:ILE:CG1	1:B:193:MET:N	0.44	2.80	1	1
1:B:23:GLU:N	1:B:23:GLU:OE1	0.44	2.45	1	1
1:B:449:PHE:CZ	1:B:500:GLY:O	0.44	2.62	1	1
1:A:302:MET:HG2	1:A:342:LEU:HD11	0.44	1.88	2	1
1:A:515:LEU:HB3	1:A:520:LEU:CD2	0.44	2.41	2	1
1:B:295:TYR:HB3	1:B:331:VAL:HA	0.44	1.90	2	2
1:B:74:GLU:O	1:B:77:ILE:HG23	0.44	2.13	2	1
2:D:650:LEU:C	2:D:652:THR:N	0.44	2.72	2	2
1:A:302:MET:HA	1:A:342:LEU:HD11	0.44	1.90	1	1
1:B:314:PHE:CD2	1:B:376:ALA:C	0.44	2.88	1	1
1:B:126:ARG:NH2	2:D:616:THR:HA	0.44	2.27	1	1
1:A:172:ASN:O	1:A:175:LYS:HD2	0.44	2.13	2	1
1:A:357:TRP:CD1	1:A:358:ARG:CZ	0.44	3.01	2	1
1:B:225:ASN:OD1	1:B:225:ASN:N	0.44	2.50	2	1
1:A:138:LEU:O	1:A:141:ILE:CG2	0.44	2.66	1	1
1:A:85:LEU:O	1:A:89:ILE:CG1	0.44	2.66	1	1
1:B:126:ARG:O	1:B:130:VAL:HG13	0.44	2.12	1	1
1:A:172:ASN:HB2	1:A:175:LYS:CE	0.43	2.43	2	1
1:A:301:PHE:O	1:A:304:ARG:HD3	0.43	2.10	2	1
1:A:50:ALA:HB2	1:A:140:ASN:HD22	0.43	1.73	2	1
1:A:92:LEU:O	1:A:96:LYS:N	0.43	2.50	2	2
1:B:333:THR:OG1	1:B:390:PHE:CD1	0.43	2.63	2	1
1:B:101:ASP:OD1	1:B:101:ASP:N	0.43	2.49	1	2
1:A:263:THR:CG2	1:A:267:HIS:H	0.43	2.14	1	1
1:B:542:PHE:CD1	1:B:543:GLU:N	0.43	2.87	1	1
1:A:301:PHE:CE1	1:A:304:ARG:NE	0.43	2.86	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:516:LEU:CD2	1:A:523:PHE:CZ	0.43	3.01	2	1
1:A:261:ALA:CA	1:A:537:ILE:CD1	0.43	2.96	2	1
1:B:264:LEU:O	1:B:264:LEU:HD23	0.43	2.13	2	1
1:B:515:LEU:N	1:B:515:LEU:HD12	0.43	2.27	2	1
1:A:304:ARG:NH2	1:A:344:TYR:HB3	0.43	2.28	2	1
1:A:530:ILE:C	1:A:530:ILE:CD1	0.43	2.78	2	1
2:C:647:LEU:O	2:C:651:GLN:OE1	0.43	2.36	2	2
1:A:310:GLU:CG	1:A:311:GLU:N	0.43	2.81	1	1
1:A:47:ARG:NH2	1:A:85:LEU:CD2	0.43	2.81	1	1
1:A:87:GLN:O	1:A:90:ILE:HG13	0.43	2.12	1	1
1:B:453:THR:CA	1:B:456:LEU:HD12	0.43	2.42	1	1
1:B:47:ARG:NH2	1:B:85:LEU:CD2	0.43	2.81	1	1
1:B:4:GLY:HA3	1:B:202:ILE:CD1	0.43	2.41	1	1
1:B:84:GLU:O	1:B:88:GLU:OE2	0.43	2.35	1	1
1:A:478:SER:HB3	1:A:481:VAL:HG22	0.43	1.88	2	1
1:B:80:LEU:HD23	1:B:133:ILE:CG2	0.43	2.44	2	1
1:B:89:ILE:O	1:B:89:ILE:HD13	0.43	2.13	2	1
1:A:396:VAL:CG2	1:B:556:PRO:O	0.43	2.66	2	2
1:A:464:ASP:CG	1:A:467:ASN:HB3	0.43	2.33	2	1
1:A:515:LEU:N	1:A:515:LEU:HD12	0.43	2.28	2	1
1:A:192:ILE:CG1	1:A:193:MET:N	0.43	2.80	1	1
1:A:314:PHE:CD2	1:A:376:ALA:C	0.43	2.88	1	1
1:A:332:ARG:HH12	1:A:334:MET:HA	0.43	1.72	1	1
1:A:436:ALA:HB1	1:A:484:LEU:HG	0.43	1.89	1	1
1:B:259:LEU:HB3	1:B:260:PRO:HD2	0.43	1.90	1	1
1:B:310:GLU:CG	1:B:311:GLU:N	0.43	2.81	1	1
1:B:317:TYR:CE1	1:B:377:ILE:HD13	0.43	2.49	1	1
1:A:451:ILE:HB	1:A:501:MET:SD	0.43	2.54	2	1
1:A:473:LEU:CD2	1:B:361:ARG:NE	0.43	2.82	2	1
1:B:516:LEU:CD2	1:B:523:PHE:CZ	0.43	3.02	2	1
1:B:82:ASP:OD2	2:D:648:PHE:HE1	0.43	1.97	2	1
1:A:296:ARG:HB2	1:A:299:PHE:CD2	0.43	2.46	1	1
1:B:276:GLY:CA	1:B:299:PHE:CZ	0.43	2.95	1	1
1:B:448:PHE:C	1:B:497:LYS:HZ1	0.43	2.17	1	1
1:A:107:VAL:CG2	1:A:108:ILE:H	0.43	2.25	2	1
1:A:115:LEU:O	1:A:118:LEU:HB2	0.43	2.14	2	2
1:A:74:GLU:O	1:A:78:MET:HB2	0.43	2.13	2	1
1:A:80:LEU:HD23	1:A:133:ILE:CG2	0.43	2.43	2	1
1:B:126:ARG:NH2	2:D:619:ALA:HB2	0.43	1.88	1	1
1:B:78:MET:CE	2:D:627:LYS:CB	0.43	2.97	1	1
1:A:182:ASP:O	1:A:183:ALA:O	0.43	2.37	2	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:264:LEU:HD23	1:A:264:LEU:O	0.43	2.13	2	1
1:A:269:VAL:CB	1:A:523:PHE:CZ	0.43	3.01	2	1
1:A:74:GLU:O	1:A:77:ILE:HG23	0.43	2.13	2	1
1:B:32:SER:OG	1:B:33:ALA:N	0.43	2.52	2	2
1:B:50:ALA:HB2	1:B:140:ASN:HD22	0.43	1.72	2	1
1:B:58:LYS:CB	1:B:73:PHE:CD2	0.43	3.01	2	1
2:D:610:ALA:O	2:D:657:GLN:HB2	0.43	2.14	2	1
1:B:463:VAL:HB	1:B:473:LEU:HD11	0.43	1.90	1	1
1:B:449:PHE:CZ	1:B:499:THR:OG1	0.43	2.52	1	1
1:B:152:ILE:CG2	1:B:175:LYS:CG	0.43	2.95	2	1
1:B:301:PHE:CG	1:B:342:LEU:CD2	0.43	2.91	2	1
1:B:360:ILE:HD11	1:B:390:PHE:CG	0.43	2.49	2	1
1:B:464:ASP:CG	1:B:467:ASN:HB3	0.43	2.34	2	1
1:B:287:ASN:O	1:B:530:ILE:HG12	0.43	2.14	2	1
2:D:647:LEU:O	2:D:651:GLN:OE1	0.43	2.36	1	2
1:A:101:ASP:CB	1:A:138:LEU:HD21	0.43	2.44	1	1
1:A:453:THR:CA	1:A:456:LEU:HD12	0.43	2.42	1	1
1:A:84:GLU:O	1:A:88:GLU:OE2	0.43	2.36	1	1
1:B:243:GLN:C	1:B:243:GLN:CD	0.43	2.78	1	1
1:B:300:LEU:O	1:B:303:ASP:OD1	0.43	2.37	1	1
1:B:11:ILE:HD12	1:B:239:MET:HE3	0.43	1.91	2	1
1:B:547:VAL:O	1:B:551:GLN:HG3	0.43	2.14	2	2
1:B:74:GLU:O	1:B:78:MET:HB2	0.43	2.13	2	1
1:B:182:ASP:O	1:B:183:ALA:O	0.43	2.37	1	2
1:B:8:SER:OG	1:B:199:LEU:O	0.43	2.36	1	2
1:A:243:GLN:C	1:A:243:GLN:CD	0.43	2.77	1	1
1:A:287:ASN:ND2	1:A:528:ILE:HA	0.43	2.28	1	1
1:B:513:LEU:H	1:B:513:LEU:CD2	0.43	2.26	1	1
1:A:485:ILE:HG22	1:A:518:MET:SD	0.42	2.54	2	1
1:B:177:LEU:O	1:B:177:LEU:CD1	0.42	2.60	2	1
1:B:8:SER:CB	1:B:199:LEU:O	0.42	2.67	2	2
1:B:92:LEU:O	1:B:96:LYS:N	0.42	2.50	2	2
1:A:194:ALA:HA	1:A:199:LEU:CD2	0.42	2.45	1	1
1:A:321:ALA:HB2	1:A:386:LEU:HD21	0.42	1.91	1	1
1:A:431:GLU:HG3	1:A:452:GLY:CA	0.42	2.43	1	1
1:A:463:VAL:HB	1:A:473:LEU:HD11	0.42	1.90	1	1
1:B:85:LEU:O	1:B:89:ILE:CG1	0.42	2.66	1	1
1:B:272:CYS:HG	1:B:273:ALA:N	0.42	2.08	2	1
1:B:302:MET:SD	1:B:342:LEU:HG	0.42	2.54	2	1
1:B:357:TRP:CD1	1:B:358:ARG:CZ	0.42	3.02	2	1
1:A:441:HIS:CE1	1:B:556:PRO:HB3	0.42	2.48	2	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:84:GLU:CG	1:B:85:LEU:N	0.42	2.82	2	1
1:A:179:PHE:CZ	1:A:181:THR:CB	0.42	3.02	1	1
1:A:296:ARG:H	1:A:299:PHE:HE2	0.42	1.56	1	1
1:A:431:GLU:CD	1:A:452:GLY:HA3	0.42	2.35	1	1
1:B:296:ARG:H	1:B:299:PHE:HE2	0.42	1.55	1	1
1:B:431:GLU:CD	1:B:452:GLY:HA3	0.42	2.35	1	1
1:B:47:ARG:NH2	1:B:85:LEU:HD21	0.42	2.29	1	1
1:B:285:GLU:CG	1:B:286:ARG:N	0.42	2.82	2	1
1:B:451:ILE:HB	1:B:501:MET:SD	0.42	2.54	2	1
1:A:49:LYS:O	1:A:50:ALA:C	0.42	2.57	1	2
1:A:47:ARG:NH2	1:A:85:LEU:HD21	0.42	2.30	1	1
1:A:542:PHE:CD1	1:A:543:GLU:N	0.42	2.87	1	1
1:B:101:ASP:CB	1:B:138:LEU:HD21	0.42	2.44	1	1
1:A:221:ASP:OD1	1:A:226:GLN:N	0.42	2.52	2	1
1:A:498:TRP:CD1	1:A:498:TRP:N	0.42	2.88	2	1
1:B:172:ASN:HB2	1:B:175:LYS:CE	0.42	2.44	2	1
1:B:309:THR:HG23	1:B:312:GLU:H	0.42	1.74	2	1
2:D:623:VAL:HG13	2:D:644:ALA:O	0.42	2.14	2	2
1:A:32:SER:OG	1:A:33:ALA:N	0.42	2.52	1	2
1:A:449:PHE:CZ	1:A:499:THR:OG1	0.42	2.52	1	1
1:B:179:PHE:CZ	1:B:181:THR:CB	0.42	3.02	1	1
1:B:371:ARG:O	1:B:375:ARG:HB2	0.42	2.15	1	1
1:B:542:PHE:C	1:B:542:PHE:CD1	0.42	2.93	1	1
1:A:74:GLU:OE1	2:C:624:LYS:CE	0.42	2.66	1	1
1:A:54:LEU:CD2	1:A:77:ILE:HD13	0.42	2.44	2	1
1:B:157:ILE:HG12	1:B:177:LEU:HD21	0.42	1.89	2	1
1:B:243:GLN:OE1	1:B:243:GLN:C	0.42	2.58	2	1
1:A:8:SER:CB	1:A:199:LEU:O	0.42	2.67	1	2
1:A:449:PHE:CD2	1:A:500:GLY:N	0.42	2.87	1	1
1:A:78:MET:HE1	2:C:627:LYS:CG	0.42	2.43	1	1
1:A:108:ILE:CG2	1:A:109:GLU:N	0.42	2.82	2	1
1:A:84:GLU:CG	1:A:85:LEU:N	0.42	2.82	2	1
1:B:179:PHE:O	1:B:201:ALA:HB1	0.42	2.15	1	2
1:A:371:ARG:O	1:A:375:ARG:HB2	0.42	2.15	1	1
1:A:542:PHE:CD1	1:A:542:PHE:C	0.42	2.93	1	1
1:B:449:PHE:CD2	1:B:500:GLY:N	0.42	2.88	1	1
1:A:504:GLU:O	1:A:504:GLU:OE1	0.42	2.38	2	1
1:A:54:LEU:HD22	1:A:77:ILE:HD13	0.42	1.90	2	1
1:B:115:LEU:O	1:B:118:LEU:HB2	0.42	2.14	2	2
1:B:252:GLU:O	1:B:255:LYS:HG3	0.42	2.14	2	1
1:B:262:ILE:O	1:B:262:ILE:HD12	0.42	2.15	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:269:VAL:CG1	1:B:270:GLU:N	0.42	2.83	2	1
1:B:498:TRP:CD1	1:B:498:TRP:N	0.42	2.88	2	1
1:B:54:LEU:CD2	1:B:77:ILE:HD13	0.42	2.44	2	1
1:A:8:SER:OG	1:A:199:LEU:O	0.42	2.37	1	2
1:A:455:ASP:O	1:A:458:GLN:HB2	0.42	2.14	1	1
1:A:5:ILE:HG22	1:A:5:ILE:O	0.42	2.15	1	1
1:A:72:ILE:HG13	1:A:73:PHE:N	0.42	2.30	1	1
1:A:547:VAL:O	1:A:551:GLN:HG3	0.42	2.14	2	2
2:C:623:VAL:HG13	2:C:644:ALA:O	0.42	2.14	1	2
1:A:449:PHE:CZ	1:A:500:GLY:O	0.42	2.62	1	1
1:B:520:LEU:HD22	1:B:522:GLU:N	0.42	2.29	1	1
1:B:72:ILE:HG13	1:B:73:PHE:N	0.42	2.29	1	1
1:A:301:PHE:CG	1:A:342:LEU:CD2	0.42	2.92	2	1
1:A:298:GLU:O	1:A:301:PHE:HB3	0.42	2.15	2	1
1:A:304:ARG:C	1:A:304:ARG:HD3	0.42	2.34	2	1
1:A:489:ILE:CG1	1:A:499:THR:HG21	0.42	2.32	2	1
1:B:298:GLU:O	1:B:301:PHE:HB3	0.42	2.14	2	1
1:B:485:ILE:HG22	1:B:518:MET:SD	0.42	2.54	2	1
1:B:194:ALA:HA	1:B:199:LEU:CD2	0.42	2.45	1	1
1:B:455:ASP:O	1:B:458:GLN:HB2	0.42	2.14	1	1
1:A:243:GLN:OE1	1:A:243:GLN:C	0.42	2.59	2	1
1:A:305:ASP:N	1:A:305:ASP:OD1	0.42	2.53	2	1
1:A:58:LYS:CB	1:A:73:PHE:CD2	0.42	3.03	2	1
1:B:171:LEU:HD23	1:B:175:LYS:NZ	0.42	2.30	2	1
1:B:337:GLY:O	1:B:358:ARG:NH1	0.42	2.52	2	1
1:B:49:LYS:O	1:B:50:ALA:C	0.42	2.57	2	2
1:B:302:MET:HA	1:B:342:LEU:HD11	0.42	1.91	1	1
2:D:649:LYS:O	2:D:652:THR:OG1	0.42	2.36	1	1
2:D:678:VAL:CG1	2:D:679:LYS:N	0.42	2.82	1	1
1:A:304:ARG:CD	1:A:304:ARG:C	0.41	2.87	2	1
1:B:108:ILE:CG2	1:B:109:GLU:N	0.41	2.83	2	1
1:A:317:TYR:CE1	1:A:331:VAL:CB	0.41	3.02	1	1
1:B:296:ARG:HB2	1:B:299:PHE:CD2	0.41	2.46	1	1
1:A:361:ARG:NE	1:B:473:LEU:CD2	0.41	2.84	2	1
1:B:11:ILE:HG23	1:B:239:MET:HE2	0.41	1.92	1	2
1:A:456:LEU:CD1	1:A:456:LEU:C	0.41	2.86	1	1
1:A:513:LEU:CD2	1:A:513:LEU:H	0.41	2.26	1	1
1:A:78:MET:CE	2:C:627:LYS:CB	0.41	2.98	1	1
1:B:192:ILE:C	1:B:192:ILE:CD1	0.41	2.84	1	1
1:B:431:GLU:HG3	1:B:452:GLY:CA	0.41	2.45	1	1
1:B:89:ILE:HG13	1:B:90:ILE:H	0.41	1.73	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:90:ILE:HD12	1:B:90:ILE:C	0.41	2.36	1	1
2:C:678:VAL:CG1	2:C:679:LYS:N	0.41	2.82	1	1
1:A:262:ILE:O	1:A:262:ILE:HD12	0.41	2.15	2	1
1:A:337:GLY:CA	1:A:358:ARG:NH2	0.41	2.83	2	1
1:A:337:GLY:O	1:A:358:ARG:NH1	0.41	2.52	2	1
1:B:270:GLU:N	1:B:270:GLU:OE1	0.41	2.54	2	1
1:B:350:GLU:HB3	1:B:357:TRP:CH2	0.41	2.50	2	1
1:B:72:ILE:CG2	1:B:73:PHE:N	0.41	2.83	2	1
1:A:111:GLN:OE1	2:C:648:PHE:CB	0.41	2.31	1	1
1:A:181:THR:C	1:A:205:THR:CG2	0.41	2.88	1	1
1:B:221:ASP:C	1:B:223:VAL:H	0.41	2.19	1	1
1:B:453:THR:HG21	1:B:505:LEU:HB2	0.41	1.92	1	1
1:B:304:ARG:HG2	1:B:306:ALA:O	0.41	2.10	2	1
1:A:257:LYS:O	1:A:257:LYS:HG3	0.41	2.14	1	1
1:A:78:MET:HE1	2:C:627:LYS:HB2	0.41	1.92	1	1
1:B:181:THR:C	1:B:205:THR:CG2	0.41	2.88	1	1
1:B:302:MET:CB	1:B:342:LEU:HD21	0.41	2.37	1	1
1:B:347:PHE:CE1	1:B:348:PRO:O	0.41	2.74	1	1
1:B:74:GLU:OE1	2:D:624:LYS:CE	0.41	2.68	1	1
1:A:221:ASP:C	1:A:223:VAL:H	0.41	2.19	2	2
1:A:269:VAL:CG1	1:A:270:GLU:N	0.41	2.83	2	1
1:A:431:GLU:OE1	1:A:431:GLU:O	0.41	2.39	2	1
1:B:307:LEU:HD23	1:B:307:LEU:C	0.41	2.35	2	1
1:B:337:GLY:CA	1:B:358:ARG:NH2	0.41	2.84	2	1
1:B:372:ASP:O	1:B:372:ASP:OD1	0.41	2.38	2	1
1:A:23:GLU:N	1:A:23:GLU:OE1	0.41	2.44	1	1
1:A:393:ILE:O	1:A:393:ILE:CG2	0.41	2.68	1	1
1:A:489:ILE:HA	1:A:499:THR:CG2	0.41	2.30	1	1
1:A:171:LEU:HD23	1:A:175:LYS:NZ	0.41	2.30	2	1
1:A:179:PHE:O	1:A:201:ALA:HB1	0.41	2.15	2	2
1:A:455:ASP:O	1:A:458:GLN:HB3	0.41	2.15	2	1
1:A:484:LEU:CD1	1:B:437:THR:CG2	0.41	2.97	2	1
1:B:12:ALA:HB1	1:B:177:LEU:CD1	0.41	2.33	2	1
1:A:79:LEU:HD22	2:C:647:LEU:HD23	0.41	1.93	2	1
1:A:316:ALA:O	1:A:320:VAL:HG23	0.41	2.16	1	1
1:B:321:ALA:HB2	1:B:386:LEU:HD21	0.41	1.91	1	1
1:A:157:ILE:HG12	1:A:177:LEU:HD21	0.41	1.89	2	1
1:A:307:LEU:HD23	1:A:307:LEU:C	0.41	2.35	2	1
1:A:77:ILE:HG23	1:A:78:MET:N	0.41	2.30	2	1
1:B:357:TRP:C	1:B:358:ARG:NE	0.41	2.74	2	1
1:B:388:ILE:HD12	1:B:388:ILE:C	0.41	2.34	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:82:ASP:OD2	2:C:648:PHE:HE1	0.41	1.98	2	1
2:D:679:LYS:O	2:D:683:GLU:N	0.41	2.54	1	2
1:A:181:THR:C	1:A:205:THR:HG23	0.41	2.35	1	1
1:A:310:GLU:CD	1:A:310:GLU:N	0.41	2.74	1	1
1:A:118:LEU:CD2	1:A:118:LEU:N	0.41	2.84	2	1
1:A:121:GLU:O	1:A:125:GLU:CD	0.41	2.59	2	1
1:A:198:GLU:C	1:A:199:LEU:HD22	0.41	2.36	2	1
1:A:214:ASN:OD1	1:A:214:ASN:O	0.41	2.38	2	1
1:A:287:ASN:O	1:A:530:ILE:HG12	0.41	2.15	2	1
1:A:354:PHE:C	1:A:355:LEU:CD2	0.41	2.88	2	1
2:D:617:ARG:CB	2:D:618:PRO:HD3	0.41	2.46	2	1
1:A:197:LEU:O	1:A:197:LEU:CD1	0.41	2.68	1	1
1:A:556:PRO:O	1:B:396:VAL:CG1	0.41	2.68	1	1
1:B:320:VAL:O	1:B:324:CYS:SG	0.41	2.72	1	1
1:A:270:GLU:OE1	1:A:270:GLU:N	0.41	2.54	2	1
1:B:261:ALA:CA	1:B:537:ILE:CD1	0.41	2.98	2	1
1:B:455:ASP:O	1:B:458:GLN:HB3	0.41	2.16	2	1
2:D:618:PRO:HB3	2:D:684:LEU:HD22	0.41	1.92	2	1
1:A:499:THR:O	1:A:499:THR:HG23	0.41	2.16	2	1
1:B:214:ASN:OD1	1:B:214:ASN:O	0.41	2.38	2	2
1:B:271:VAL:HG12	1:B:523:PHE:CD1	0.41	2.50	2	1
2:C:679:LYS:O	2:C:683:GLU:N	0.41	2.54	2	2
1:A:214:ASN:O	1:A:214:ASN:OD1	0.41	2.38	1	1
1:B:197:LEU:O	1:B:197:LEU:CD1	0.41	2.68	1	1
1:B:387:ARG:NH1	1:B:425:GLU:OE2	0.41	2.54	1	1
1:B:118:LEU:N	1:B:118:LEU:CD2	0.41	2.84	2	1
1:B:121:GLU:O	1:B:125:GLU:CD	0.41	2.60	2	1
1:B:198:GLU:C	1:B:199:LEU:HD22	0.41	2.36	2	1
1:B:388:ILE:C	1:B:388:ILE:CD1	0.41	2.89	2	1
1:B:58:LYS:HB2	1:B:73:PHE:CE2	0.41	2.51	2	1
1:A:123:LEU:N	1:A:123:LEU:CD1	0.41	2.84	1	1
1:B:162:ASP:HA	1:B:181:THR:CG2	0.41	2.36	1	1
1:B:181:THR:C	1:B:205:THR:HG23	0.41	2.35	1	1
1:B:260:PRO:HG3	1:B:290:GLU:HG3	0.41	1.92	1	1
1:B:317:TYR:CE1	1:B:331:VAL:CB	0.41	3.04	1	1
1:A:232:THR:HG22	1:A:234:GLU:N	0.40	2.27	2	1
1:A:252:GLU:O	1:A:255:LYS:HG2	0.40	2.16	2	1
1:A:367:ARG:O	1:A:368:GLU:C	0.40	2.60	2	2
1:A:485:ILE:HG22	1:A:486:LYS:N	0.40	2.31	2	1
1:A:515:LEU:CA	1:A:520:LEU:CD1	0.40	2.97	2	1
1:B:283:GLY:O	1:B:287:ASN:ND2	0.40	2.53	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:388:ILE:O	1:B:388:ILE:HG13	0.40	2.15	2	1
1:A:204:GLY:O	1:A:205:THR:C	0.40	2.60	1	1
1:A:90:ILE:HD12	1:A:90:ILE:C	0.40	2.36	1	1
1:B:182:ASP:C	1:B:182:ASP:OD1	0.40	2.59	1	1
1:B:316:ALA:O	1:B:320:VAL:HG23	0.40	2.16	1	1
1:A:350:GLU:HB3	1:A:357:TRP:CH2	0.40	2.50	2	1
1:A:365:ASP:OD1	1:A:365:ASP:C	0.40	2.60	2	1
1:B:476:PRO:CA	1:B:481:VAL:HG21	0.40	2.46	2	1
1:B:485:ILE:HG22	1:B:486:LYS:N	0.40	2.31	2	1
1:A:314:PHE:CZ	1:A:379:ARG:HB2	0.40	2.49	1	1
1:A:453:THR:HG21	1:A:505:LEU:HB2	0.40	1.92	1	1
1:B:243:GLN:O	1:B:246:VAL:CG2	0.40	2.42	1	1
1:A:357:TRP:C	1:A:358:ARG:NE	0.40	2.74	2	1
1:B:175:LYS:HD3	1:B:176:VAL:CA	0.40	2.46	2	1
1:B:294:LEU:HD23	1:B:296:ARG:N	0.40	2.31	2	1
1:A:180:ILE:HD11	1:A:208:VAL:HG21	0.40	1.92	1	1
1:A:292:VAL:CG1	1:A:329:VAL:CG2	0.40	2.83	1	1
1:A:11:ILE:HD12	1:A:239:MET:HE3	0.40	1.88	2	1
1:A:360:ILE:HD11	1:A:390:PHE:CG	0.40	2.52	2	1
1:A:354:PHE:CG	1:A:458:GLN:OE1	0.40	2.75	2	1
1:A:72:ILE:CG2	1:A:73:PHE:N	0.40	2.84	2	1
1:B:186:ARG:C	1:B:188:SER:H	0.40	2.19	2	2
1:B:204:GLY:O	1:B:205:THR:C	0.40	2.59	2	1
1:B:304:ARG:HD3	1:B:304:ARG:C	0.40	2.36	2	1
1:B:367:ARG:O	1:B:368:GLU:C	0.40	2.60	2	2
1:B:67:GLU:OE1	1:B:70:GLU:OE1	0.40	2.39	2	1
1:A:130:VAL:HG23	1:A:131:ARG:N	0.40	2.32	1	1
1:A:145:LYS:HG3	1:A:146:ILE:N	0.40	2.32	1	1
1:A:246:VAL:HG23	1:A:247:ALA:N	0.40	2.31	1	1
1:A:276:GLY:C	1:A:299:PHE:CD1	0.40	2.83	1	1
1:A:337:GLY:C	1:A:358:ARG:CG	0.40	2.90	1	1
1:B:305:ASP:HA	1:B:344:TYR:CZ	0.40	2.52	1	1
1:B:393:ILE:O	1:B:393:ILE:CG2	0.40	2.68	1	1
1:A:388:ILE:O	1:A:388:ILE:HG13	0.40	2.15	2	1
1:B:302:MET:HG3	1:B:302:MET:O	0.40	2.16	2	1
1:B:354:PHE:CG	1:B:458:GLN:OE1	0.40	2.75	2	1
2:C:657:GLN:O	2:C:657:GLN:HG3	0.40	2.17	2	1
1:A:182:ASP:C	1:A:182:ASP:OD1	0.40	2.59	1	1
1:A:347:PHE:CE1	1:A:348:PRO:O	0.40	2.75	1	1
1:A:470:ILE:CG2	1:A:473:LEU:HD13	0.40	2.46	1	1
1:B:173:LEU:CD2	1:B:173:LEU:H	0.40	2.29	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:310:GLU:N	1:B:310:GLU:CD	0.40	2.74	1	1

5.2 Torsion angles [i](#)

5.2.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	570/573 (99%)	538±1 (94±0%)	26±1 (4±0%)	7±0 (1±0%)	17	64
1	B	569/573 (99%)	536±1 (94±0%)	26±1 (5±0%)	7±0 (1±0%)	17	64
2	C	83/85 (98%)	76±0 (92±0%)	6±0 (7±0%)	1±0 (1±0%)	17	64
2	D	83/85 (98%)	76±0 (92±0%)	6±0 (7±0%)	1±0 (1±0%)	17	64
All	All	2610/2632 (99%)	2451 (94%)	127 (5%)	32 (1%)	17	64

All 19 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	183	ALA	2
1	B	183	ALA	2
1	A	260	PRO	2
1	A	6	LEU	2
2	D	651	GLN	2
1	B	232	THR	2
1	A	232	THR	2
1	B	6	LEU	2
1	A	148	ASP	2
1	A	278	VAL	2
1	B	148	ASP	2
1	B	278	VAL	2
2	C	651	GLN	2
1	B	255	LYS	1
1	B	256	LEU	1
1	B	254	ALA	1
1	A	256	LEU	1

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Mol	Chain	Res	Type	Models (Total)
1	A	257	LYS	1
1	B	260	PRO	1

5.2.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	473/474 (100%)	409±5 (86±1%)	65±5 (14±1%)	7	47
1	B	472/474 (100%)	406±4 (86±1%)	66±4 (14±1%)	6	46
2	C	70/70 (100%)	63±2 (90±3%)	7±2 (10±3%)	11	56
2	D	70/70 (100%)	64±2 (91±2%)	7±2 (9±2%)	12	59
All	All	2170/2176 (100%)	1882 (87%)	288 (13%)	7	48

All 227 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	B	404	LYS	2
1	A	58	LYS	2
1	A	27	ASP	2
1	B	307	LEU	2
1	A	474	TYR	2
1	B	396	VAL	2
1	A	520	LEU	2
1	A	80	LEU	2
1	A	388	ILE	2
1	B	240	ARG	2
1	A	402	LEU	2
1	B	347	PHE	2
1	B	215	ASP	2
1	B	464	ASP	2
1	A	396	VAL	2
1	A	32	SER	2
1	B	402	LEU	2
2	C	641	SER	2
1	A	240	ARG	2

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Mol	Chain	Res	Type	Models (Total)
2	D	630	THR	2
1	B	455	ASP	2
1	A	411	GLN	2
1	A	455	ASP	2
1	B	423	SER	2
2	C	630	THR	2
1	B	28	ARG	2
1	B	372	ASP	2
1	A	215	ASP	2
1	A	372	ASP	2
1	B	213	LYS	2
1	B	27	ASP	2
1	B	334	MET	2
1	A	28	ARG	2
1	A	561	LEU	2
1	B	411	GLN	2
1	A	557	THR	2
1	A	404	LYS	2
1	A	464	ASP	2
2	D	651	GLN	2
1	B	520	LEU	2
2	C	651	GLN	2
1	A	209	THR	2
1	B	557	THR	2
2	D	643	SER	2
1	A	213	LYS	2
1	A	423	SER	2
1	A	216	ASP	2
1	A	334	MET	2
1	A	347	PHE	2
1	B	80	LEU	2
1	B	32	SER	2
2	C	643	SER	2
1	A	299	PHE	2
1	B	58	LYS	2
1	B	299	PHE	2
1	B	474	TYR	2
1	B	388	ILE	2
1	B	561	LEU	2
1	B	216	ASP	2
1	A	307	LEU	2
2	D	641	SER	2

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Mol	Chain	Res	Type	Models (Total)
1	B	470	ILE	1
2	D	676	HIS	1
1	B	262	ILE	1
1	B	85	LEU	1
1	A	189	HIS	1
1	B	182	ASP	1
1	B	89	ILE	1
1	A	179	PHE	1
1	B	125	GLU	1
1	A	199	LEU	1
1	B	350	GLU	1
1	A	317	TYR	1
1	B	281	VAL	1
1	B	355	LEU	1
1	A	192	ILE	1
1	B	137	LEU	1
1	B	140	ASN	1
1	B	317	TYR	1
1	B	205	THR	1
1	A	163	LEU	1
1	A	392	MET	1
1	A	140	ASN	1
1	A	125	GLU	1
1	B	398	GLU	1
1	B	146	ILE	1
1	B	73	PHE	1
1	A	137	LEU	1
1	B	72	ILE	1
1	B	47	ARG	1
1	B	332	ARG	1
1	B	209	THR	1
1	A	484	LEU	1
1	B	367	ARG	1
1	A	523	PHE	1
1	B	360	ILE	1
1	B	77	ILE	1
1	A	473	LEU	1
1	A	379	ARG	1
1	A	431	GLU	1
1	A	78	MET	1
1	A	77	ILE	1
1	A	449	PHE	1

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Mol	Chain	Res	Type	Models (Total)
1	B	189	HIS	1
1	B	530	ILE	1
1	A	72	ILE	1
1	A	180	ILE	1
1	A	277	THR	1
1	A	205	THR	1
1	A	360	ILE	1
1	B	390	PHE	1
1	A	88	GLU	1
1	A	70	GLU	1
1	B	499	THR	1
2	D	607	THR	1
1	A	286	ARG	1
2	D	614	LEU	1
1	A	350	GLU	1
1	A	309	THR	1
1	A	73	PHE	1
1	A	281	VAL	1
1	A	268	GLN	1
2	C	615	HIS	1
1	A	197	LEU	1
1	B	310	GLU	1
1	B	529	SER	1
1	B	117	GLU	1
1	A	513	LEU	1
1	A	304	ARG	1
1	B	76	HIS	1
1	B	456	LEU	1
1	B	272	CYS	1
1	B	256	LEU	1
1	A	529	SER	1
1	B	473	LEU	1
1	A	272	CYS	1
1	B	88	GLU	1
1	A	355	LEU	1
1	B	70	GLU	1
2	C	683	GLU	1
1	B	523	PHE	1
1	B	199	LEU	1
1	B	431	GLU	1
1	B	171	LEU	1
1	B	5	ILE	1

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Mol	Chain	Res	Type	Models (Total)
1	A	451	ILE	1
1	A	138	LEU	1
1	A	146	ILE	1
2	C	614	LEU	1
1	B	326	SER	1
1	B	309	THR	1
1	B	197	LEU	1
1	B	484	LEU	1
1	A	480	SER	1
1	A	499	THR	1
1	B	150	SER	1
1	B	502	CYS	1
1	A	501	MET	1
1	B	192	ILE	1
2	C	607	THR	1
1	A	470	ILE	1
1	B	379	ARG	1
1	A	175	LYS	1
1	A	117	GLU	1
1	A	377	ILE	1
1	A	187	THR	1
1	B	268	GLN	1
1	B	336	ILE	1
1	B	485	ILE	1
1	B	78	MET	1
1	B	193	MET	1
1	A	182	ASP	1
1	B	138	LEU	1
1	B	330	ILE	1
1	B	144	LEU	1
1	B	513	LEU	1
1	A	344	TYR	1
1	B	303	ASP	1
1	B	175	LYS	1
1	A	336	ILE	1
2	C	612	ASN	1
1	B	292	VAL	1
1	A	485	ILE	1
1	B	394	ILE	1
1	A	313	GLN	1
1	A	502	CYS	1
1	A	332	ARG	1

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Mol	Chain	Res	Type	Models (Total)
1	B	344	TYR	1
1	B	451	ILE	1
1	A	367	ARG	1
1	B	377	ILE	1
1	B	541	ASN	1
1	B	304	ARG	1
1	B	302	MET	1
1	A	171	LEU	1
1	A	398	GLU	1
1	A	530	ILE	1
1	B	313	GLN	1
1	A	330	ILE	1
2	C	676	HIS	1
1	A	456	LEU	1
1	A	310	GLU	1
1	B	180	ILE	1
1	A	144	LEU	1
1	B	501	MET	1
1	B	163	LEU	1
1	A	89	ILE	1
1	B	179	PHE	1
1	A	193	MET	1
1	A	262	ILE	1
1	A	150	SER	1
1	B	480	SER	1
1	A	358	ARG	1
1	B	449	PHE	1
1	A	47	ARG	1
1	B	392	MET	1
1	A	394	ILE	1
1	A	5	ILE	1
2	D	683	GLU	1
1	A	390	PHE	1
1	A	85	LEU	1
1	B	259	LEU	1
2	D	615	HIS	1
1	A	292	VAL	1
1	B	187	THR	1
1	A	76	HIS	1
1	B	358	ARG	1

5.2.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.4 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.5 Ligand geometry [i](#)

There are no ligands in this entry.

5.6 Other polymers [i](#)

There are no such molecules in this entry.

5.7 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Chemical shift validation

No chemical shift data were provided