



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 12:30 PM UTC

PDB ID : 7P3Z / pdb_00007p3z
EMDB ID : EMD-13189
Title : Homology model of the full-length AP-3 complex in a stretched open conformation
Authors : Schubert, E.; Raunser, S.
Deposited on : 2021-07-09
Resolution : 10.50 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

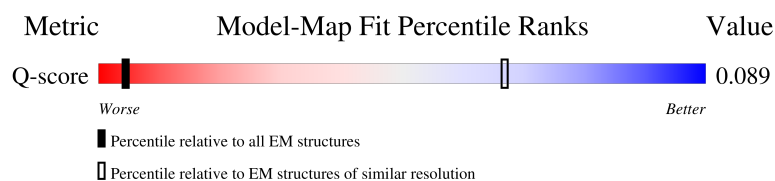
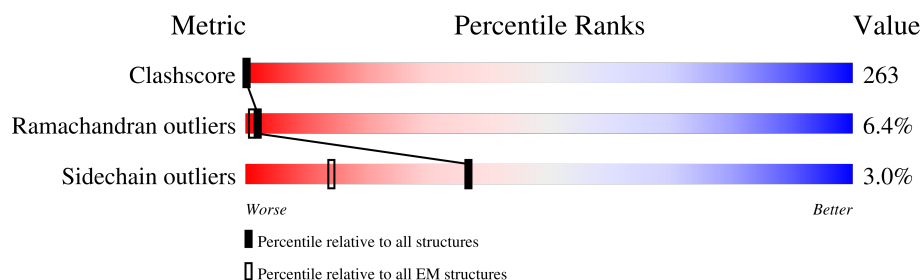
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 10.50 Å.

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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	126 (10.00 - 11.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	964	
2	B	809	
3	M	483	
4	S	194	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 14041 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called AP-3 complex subunit delta.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	576	Total	C	N	O	S	0	0
			4625	2978	738	881	28		

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	933	ARG	-	expression tag	UNP A0A7I9C4X2
A	934	THR	-	expression tag	UNP A0A7I9C4X2
A	935	LEU	-	expression tag	UNP A0A7I9C4X2
A	936	GLN	-	expression tag	UNP A0A7I9C4X2
A	937	VAL	-	expression tag	UNP A0A7I9C4X2
A	938	ASP	-	expression tag	UNP A0A7I9C4X2
A	939	GLY	-	expression tag	UNP A0A7I9C4X2
A	940	SER	-	expression tag	UNP A0A7I9C4X2
A	941	ASP	-	expression tag	UNP A0A7I9C4X2
A	942	TYR	-	expression tag	UNP A0A7I9C4X2
A	943	LYS	-	expression tag	UNP A0A7I9C4X2
A	944	ASP	-	expression tag	UNP A0A7I9C4X2
A	945	ASP	-	expression tag	UNP A0A7I9C4X2
A	946	ASP	-	expression tag	UNP A0A7I9C4X2
A	947	ASP	-	expression tag	UNP A0A7I9C4X2
A	948	LYS	-	expression tag	UNP A0A7I9C4X2
A	949	ASP	-	expression tag	UNP A0A7I9C4X2
A	950	TYR	-	expression tag	UNP A0A7I9C4X2
A	951	LYS	-	expression tag	UNP A0A7I9C4X2
A	952	ASP	-	expression tag	UNP A0A7I9C4X2
A	953	ASP	-	expression tag	UNP A0A7I9C4X2
A	954	ASP	-	expression tag	UNP A0A7I9C4X2
A	955	ASP	-	expression tag	UNP A0A7I9C4X2
A	956	LYS	-	expression tag	UNP A0A7I9C4X2
A	957	ASP	-	expression tag	UNP A0A7I9C4X2
A	958	TYR	-	expression tag	UNP A0A7I9C4X2
A	959	LYS	-	expression tag	UNP A0A7I9C4X2
A	960	ASP	-	expression tag	UNP A0A7I9C4X2

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Chain	Residue	Modelled	Actual	Comment	Reference
A	961	ASP	-	expression tag	UNP A0A7I9C4X2
A	962	ASP	-	expression tag	UNP A0A7I9C4X2
A	963	ASP	-	expression tag	UNP A0A7I9C4X2
A	964	LYS	-	expression tag	UNP A0A7I9C4X2

- Molecule 2 is a protein called Y55_G0035830.mRNA.1.CDS.1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	621	Total	C	N	O	S	0	0
			4954	3160	830	936	28		

- Molecule 3 is a protein called AP-3 complex subunit mu.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	M	391	Total	C	N	O	S	0	0
			3106	1986	509	599	12		

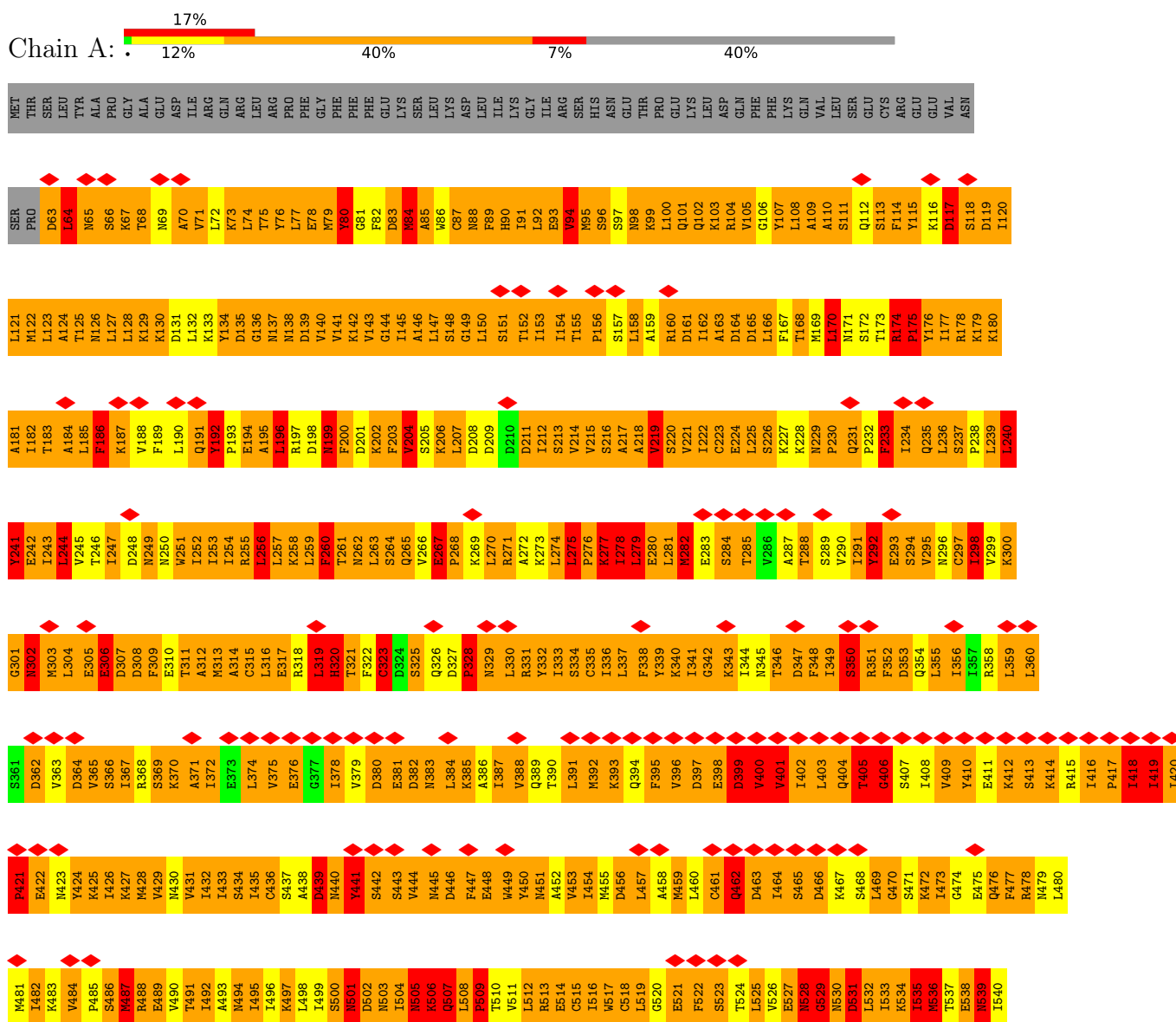
- Molecule 4 is a protein called AP complex subunit sigma.

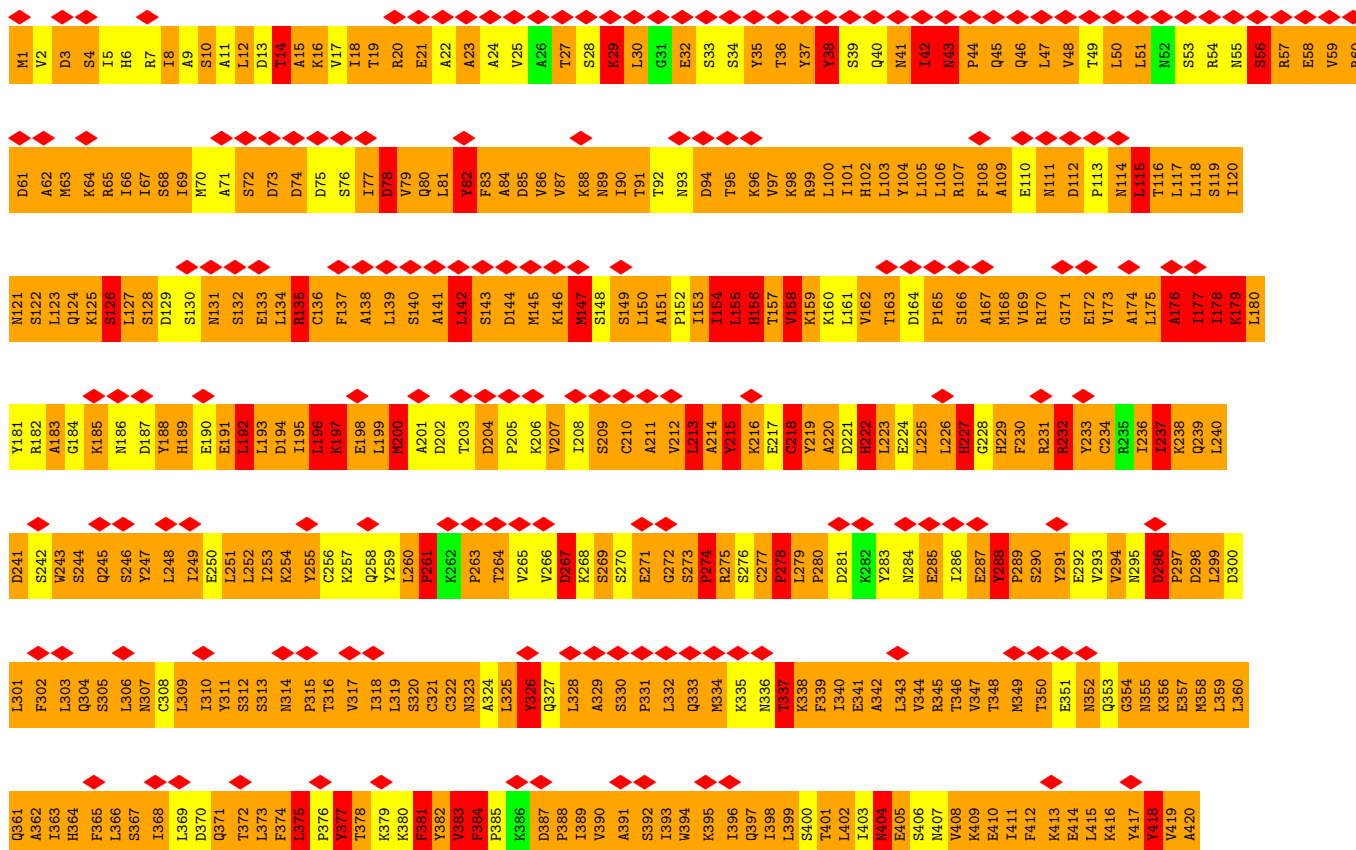
Mol	Chain	Residues	Atoms					AltConf	Trace
4	S	168	Total	C	N	O	S	0	0
			1356	867	215	270	4		

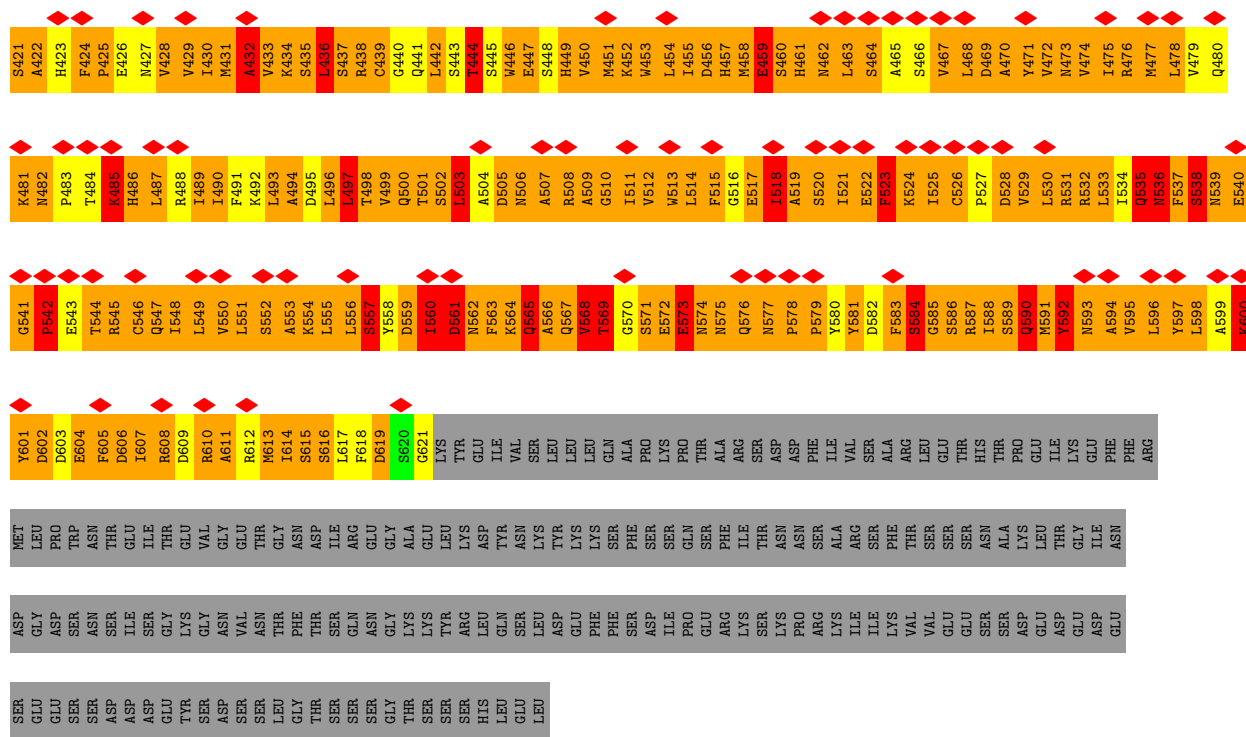
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-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. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

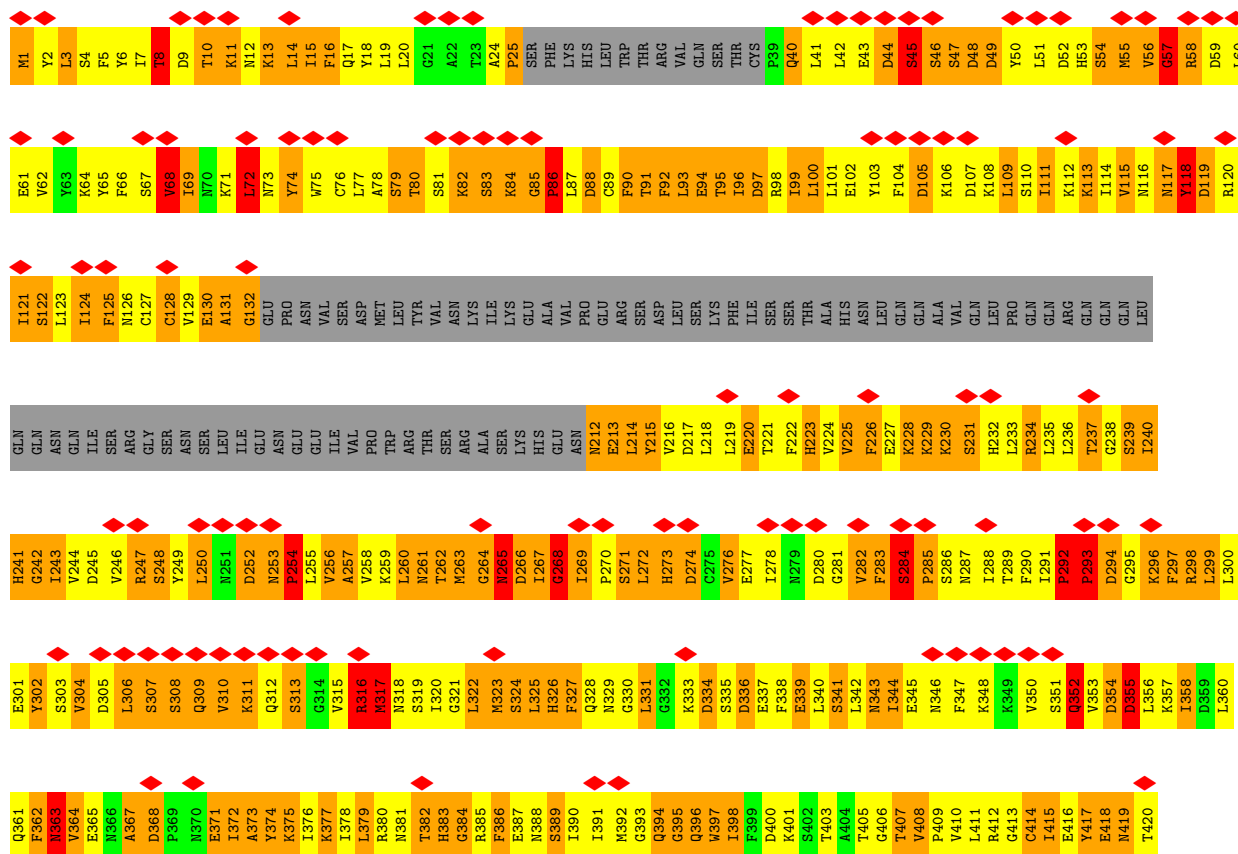
• Molecule 1: AP-3 complex subunit delta

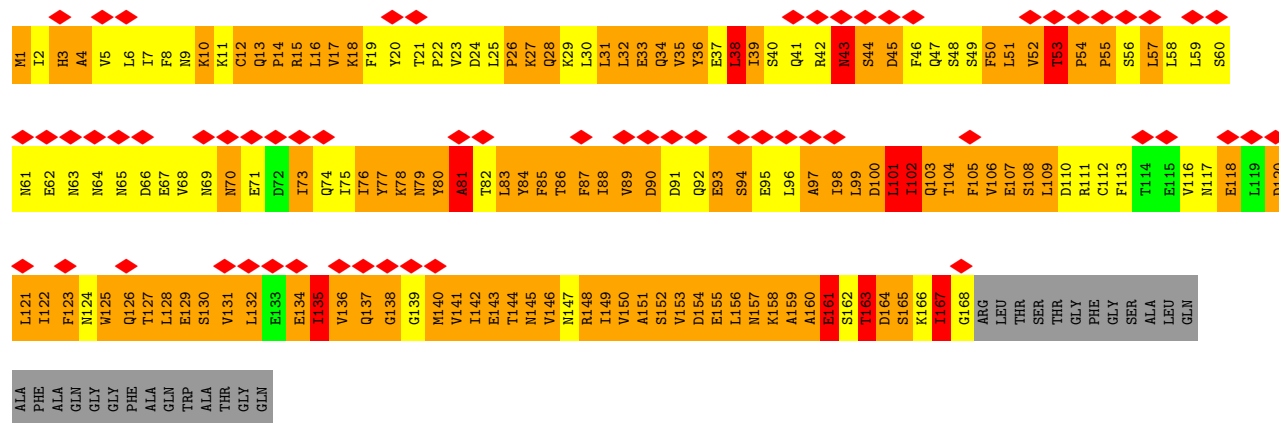






• Molecule 3: AP-3 complex subunit mu





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	20312	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	81	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	3600	Depositor
Magnification	130000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.046	Depositor
Minimum map value	-0.015	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.0155	Depositor
Map size (\AA)	282.48, 282.48, 282.48	wwPDB
Map dimensions	264, 264, 264	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.07, 1.07, 1.07	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	2.65	373/4699 (7.9%)	4.55	1173/6358 (18.4%)
2	B	2.40	340/5047 (6.7%)	3.94	1118/6841 (16.3%)
3	M	2.46	202/3163 (6.4%)	3.17	410/4271 (9.6%)
4	S	2.90	129/1377 (9.4%)	3.43	237/1872 (12.7%)
All	All	2.55	1044/14286 (7.3%)	3.96	2938/19342 (15.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	49
2	B	0	28
3	M	0	14
4	S	0	8
All	All	0	99

All (1044) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	S	46	PHE	CA-C	-23.44	1.24	1.53
4	S	53	THR	N-CA	-22.00	1.17	1.45
4	S	163	THR	CA-C	21.38	1.81	1.52
3	M	56	VAL	CA-C	-19.66	1.25	1.52
3	M	225	VAL	CA-C	-19.00	1.32	1.52
1	A	218	ALA	CA-C	-18.56	1.26	1.52
4	S	83	LEU	CA-C	17.60	1.73	1.52
3	M	41	LEU	CA-C	-17.19	1.29	1.52
3	M	335	SER	CA-C	-16.98	1.32	1.52
1	A	394	GLN	CA-C	-16.47	1.31	1.52
3	M	354	ASP	CA-C	15.77	1.73	1.52
1	A	405	THR	CA-C	-15.70	1.31	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	407	SER	N-CA	15.66	1.65	1.45
3	M	132	GLY	CA-C	-15.39	1.24	1.52
1	A	406	GLY	CA-C	15.11	1.73	1.51
4	S	51	LEU	N-CA	-14.76	1.27	1.46
3	M	45	SER	CA-C	14.66	1.72	1.52
1	A	139	ASP	N-CA	-14.40	1.27	1.46
2	B	337	THR	N-CA	-13.99	1.28	1.46
3	M	231	SER	N-CA	13.72	1.63	1.46
4	S	143	GLU	CA-C	-13.65	1.36	1.52
4	S	55	PRO	N-CA	13.59	1.65	1.47
3	M	230	LYS	CA-C	13.52	1.70	1.53
2	B	329	ALA	CA-C	-13.30	1.35	1.52
1	A	467	LYS	N-CA	-13.23	1.29	1.46
3	M	132	GLY	N-CA	-13.19	1.24	1.45
4	S	144	THR	N-CA	-13.11	1.28	1.45
1	A	217	ALA	C-N	12.67	1.51	1.33
3	M	283	PHE	N-CA	-12.61	1.31	1.46
3	M	293	PRO	N-CD	12.58	1.65	1.47
1	A	71	VAL	CA-C	-12.56	1.36	1.52
3	M	55	MET	C-N	12.55	1.49	1.34
3	M	262	THR	CA-C	-12.51	1.37	1.52
1	A	464	ILE	CA-C	-12.33	1.37	1.52
4	S	140	MET	N-CA	-12.32	1.30	1.46
3	M	239	SER	N-CA	-12.28	1.31	1.46
2	B	212	VAL	C-O	12.19	1.38	1.24
3	M	364	VAL	CA-C	-12.19	1.40	1.52
3	M	44	ASP	C-N	12.14	1.50	1.33
3	M	97	ASP	CA-C	-12.09	1.37	1.52
1	A	406	GLY	C-N	12.04	1.51	1.33
1	A	466	ASP	CA-C	-11.84	1.39	1.52
4	S	103	GLN	CA-C	-11.75	1.36	1.52
3	M	95	THR	N-CA	11.73	1.60	1.46
3	M	109	LEU	N-CA	-11.70	1.31	1.46
2	B	289	PRO	CA-C	-11.52	1.36	1.52
1	A	534	LYS	CA-C	-11.51	1.37	1.52
1	A	87	CYS	N-CA	-11.46	1.30	1.46
1	A	138	ASN	CA-C	-11.38	1.40	1.53
1	A	120	ILE	CA-C	-11.35	1.39	1.52
3	M	294	ASP	N-CA	-11.31	1.30	1.45
3	M	322	LEU	C-O	11.28	1.35	1.23
3	M	91	THR	CA-C	-11.13	1.37	1.52
2	B	522	GLU	CA-C	-11.09	1.37	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	S	158	LYS	CA-C	-11.07	1.38	1.52
2	B	500	GLN	CA-C	-11.06	1.39	1.53
1	A	302	ASN	CA-C	-11.06	1.38	1.52
1	A	533	ILE	N-CA	-10.99	1.33	1.46
4	S	99	LEU	CA-C	-10.99	1.38	1.52
1	A	388	VAL	CA-C	-10.98	1.39	1.52
2	B	443	SER	CA-C	-10.96	1.39	1.52
4	S	2	ILE	CA-C	-10.95	1.40	1.52
1	A	153	ILE	C-N	-10.90	1.22	1.34
3	M	420	THR	N-CA	-10.89	1.32	1.46
1	A	192	TYR	CA-C	-10.88	1.39	1.52
2	B	187	ASP	CA-C	-10.87	1.38	1.52
1	A	508	LEU	N-CA	-10.85	1.34	1.46
2	B	485	LYS	CA-C	-10.82	1.38	1.52
2	B	567	GLN	CA-C	-10.80	1.38	1.52
3	M	296	LYS	CA-C	-10.78	1.38	1.52
2	B	383	VAL	CA-C	-10.73	1.39	1.52
1	A	83	ASP	CA-C	-10.68	1.39	1.52
3	M	113	LYS	CA-C	-10.65	1.38	1.52
1	A	348	PHE	CA-C	-10.59	1.38	1.52
3	M	295	GLY	CA-C	10.49	1.66	1.52
3	M	419	ASN	CA-C	-10.48	1.40	1.52
2	B	219	TYR	C-N	-10.45	1.21	1.33
4	S	52	VAL	CA-C	-10.43	1.40	1.52
1	A	465	SER	N-CA	-10.39	1.33	1.46
3	M	261	ASN	CA-C	-10.38	1.40	1.52
3	M	373	ALA	CA-C	-10.38	1.40	1.52
1	A	242	GLU	CA-C	-10.37	1.40	1.52
4	S	124	ASN	N-CA	-10.36	1.33	1.46
1	A	418	ILE	C-N	10.32	1.47	1.33
1	A	244	LEU	C-N	-10.28	1.22	1.34
4	S	108	SER	N-CA	-10.27	1.33	1.46
1	A	221	VAL	N-CA	10.19	1.58	1.46
1	A	394	GLN	N-CA	-10.15	1.34	1.46
1	A	531	ASP	CA-C	-10.15	1.38	1.52
2	B	150	LEU	N-CA	-10.15	1.34	1.46
1	A	301	GLY	CA-C	-10.14	1.40	1.52
4	S	4	ALA	CA-CB	10.04	1.70	1.53
2	B	226	LEU	CA-C	-10.04	1.39	1.52
2	B	329	ALA	N-CA	-10.00	1.33	1.46
4	S	29	LYS	CA-C	-9.97	1.39	1.52
1	A	623	MET	CA-C	-9.96	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	399	ASP	CA-C	-9.95	1.40	1.53
1	A	444	VAL	N-CA	-9.94	1.34	1.46
2	B	568	VAL	N-CA	-9.89	1.33	1.46
3	M	392	MET	N-CA	-9.87	1.33	1.46
1	A	216	SER	C-N	9.87	1.46	1.33
2	B	515	PHE	CA-C	9.87	1.66	1.52
2	B	290	SER	CA-C	-9.86	1.39	1.52
1	A	387	ILE	CA-C	-9.85	1.38	1.52
2	B	296	ASP	CA-C	-9.84	1.40	1.52
3	M	96	ILE	C-N	9.84	1.47	1.33
3	M	336	ASP	N-CA	-9.82	1.33	1.45
3	M	293	PRO	CA-C	-9.80	1.38	1.52
1	A	217	ALA	CA-C	-9.79	1.40	1.52
1	A	466	ASP	C-N	-9.79	1.20	1.34
1	A	384	LEU	CA-C	-9.77	1.40	1.52
3	M	267	ILE	CA-C	-9.76	1.41	1.52
2	B	219	TYR	CA-C	-9.71	1.39	1.52
2	B	576	GLN	C-N	-9.71	1.20	1.33
1	A	445	ASN	CA-C	-9.70	1.39	1.52
1	A	241	TYR	N-CA	-9.70	1.34	1.46
3	M	55	MET	N-CA	-9.69	1.32	1.46
2	B	153	ILE	CA-C	-9.65	1.40	1.52
2	B	494	ALA	CA-C	-9.63	1.40	1.52
1	A	522	PHE	CA-C	-9.60	1.39	1.52
2	B	35	TYR	CA-C	-9.56	1.39	1.52
1	A	465	SER	CA-C	-9.56	1.40	1.52
1	A	298	ILE	C-O	9.54	1.35	1.24
1	A	367	ILE	CA-C	-9.53	1.40	1.52
1	A	410	TYR	N-CA	-9.51	1.33	1.46
4	S	80	TYR	N-CA	-9.49	1.35	1.46
2	B	264	THR	CA-C	-9.47	1.40	1.52
1	A	558	VAL	CA-C	-9.47	1.41	1.52
1	A	631	SER	CA-C	-9.45	1.40	1.52
3	M	257	ALA	N-CA	-9.44	1.34	1.46
1	A	588	LEU	C-N	-9.43	1.20	1.33
2	B	458	MET	C-O	9.41	1.35	1.24
4	S	14	PRO	C-N	-9.39	1.20	1.33
2	B	83	PHE	C-N	9.35	1.46	1.33
2	B	422	ALA	CA-C	-9.34	1.40	1.53
1	A	175	PRO	N-CD	9.33	1.60	1.47
2	B	355	ASN	CA-C	-9.32	1.41	1.53
2	B	576	GLN	CA-C	-9.30	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	330	SER	N-CA	-9.28	1.32	1.45
4	S	3	HIS	N-CA	-9.27	1.33	1.46
1	A	508	LEU	CA-C	-9.26	1.42	1.53
3	M	256	VAL	C-O	9.25	1.33	1.24
4	S	108	SER	CA-C	-9.24	1.40	1.52
1	A	277	LYS	C-N	-9.20	1.20	1.33
2	B	263	PRO	CA-C	9.20	1.61	1.52
1	A	281	LEU	N-CA	9.20	1.58	1.46
1	A	270	LEU	CA-C	-9.19	1.41	1.52
2	B	265	VAL	CA-C	-9.18	1.42	1.52
3	M	331	LEU	CA-C	-9.17	1.40	1.52
2	B	169	VAL	CA-C	-9.15	1.41	1.52
2	B	601	TYR	N-CA	-9.12	1.35	1.46
4	S	138	GLY	C-N	9.11	1.44	1.33
1	A	221	VAL	CA-C	-9.09	1.42	1.52
3	M	394	GLN	CA-C	9.08	1.63	1.52
1	A	507	GLN	C-N	-9.07	1.22	1.33
3	M	41	LEU	C-N	9.04	1.45	1.33
2	B	568	VAL	CA-C	-9.04	1.41	1.52
1	A	303	MET	N-CA	-9.03	1.34	1.46
4	S	167	ILE	C-N	9.04	1.46	1.33
1	A	84	MET	N-CA	-9.00	1.34	1.46
1	A	632	PHE	CA-C	-9.00	1.41	1.52
3	M	323	MET	N-CA	-8.97	1.35	1.46
1	A	143	VAL	CA-C	-8.97	1.41	1.52
1	A	467	LYS	CA-C	-8.92	1.40	1.52
3	M	223	HIS	C-N	-8.90	1.21	1.33
1	A	162	ILE	N-CA	-8.89	1.36	1.46
2	B	222	HIS	N-CA	8.88	1.57	1.46
1	A	635	ALA	CA-C	-8.86	1.40	1.52
2	B	330	SER	C-N	-8.86	1.21	1.33
1	A	355	LEU	CA-C	-8.84	1.40	1.52
1	A	464	ILE	C-N	-8.84	1.22	1.33
3	M	263	MET	N-CA	-8.84	1.34	1.46
4	S	55	PRO	CA-C	-8.84	1.37	1.52
2	B	115	LEU	CA-C	-8.84	1.41	1.52
4	S	83	LEU	N-CA	-8.82	1.35	1.45
1	A	444	VAL	CA-C	-8.80	1.42	1.52
3	M	83	SER	N-CA	-8.80	1.34	1.46
2	B	290	SER	N-CA	-8.80	1.34	1.46
1	A	496	ILE	CA-C	-8.79	1.42	1.52
1	A	263	LEU	N-CA	-8.79	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	S	84	TYR	C-N	-8.78	1.21	1.33
2	B	486	HIS	CA-C	-8.77	1.41	1.52
2	B	559	ASP	CA-C	-8.76	1.41	1.52
1	A	138	ASN	C-N	-8.74	1.21	1.33
2	B	339	PHE	CA-C	-8.74	1.41	1.52
3	M	272	LEU	CA-C	8.72	1.63	1.52
2	B	382	TYR	N-CA	-8.72	1.35	1.46
2	B	500	GLN	C-N	-8.71	1.21	1.33
3	M	269	ILE	N-CA	-8.69	1.39	1.46
3	M	110	SER	CA-C	-8.66	1.41	1.52
1	A	162	ILE	CA-C	-8.65	1.42	1.52
1	A	341	ILE	CA-C	-8.64	1.41	1.52
2	B	363	ILE	N-CA	-8.64	1.36	1.46
2	B	425	PRO	CA-C	-8.63	1.42	1.52
4	S	36	TYR	CA-C	-8.62	1.41	1.52
2	B	66	ILE	CA-C	-8.61	1.41	1.52
3	M	292	PRO	CA-C	8.61	1.60	1.52
2	B	526	CYS	CA-C	-8.60	1.42	1.52
3	M	354	ASP	C-N	-8.59	1.21	1.33
2	B	47	LEU	CA-C	-8.59	1.46	1.52
1	A	237	SER	CA-C	-8.58	1.41	1.52
4	S	105	PHE	CA-C	-8.57	1.41	1.52
3	M	365	GLU	N-CA	-8.57	1.36	1.46
1	A	148	SER	CA-C	-8.56	1.41	1.52
1	A	424	TYR	CA-C	-8.56	1.41	1.52
1	A	242	GLU	C-O	-8.56	1.13	1.23
1	A	214	VAL	CA-C	-8.56	1.41	1.52
3	M	262	THR	N-CA	-8.54	1.35	1.46
2	B	363	ILE	CA-C	-8.51	1.41	1.52
1	A	218	ALA	CA-CB	-8.51	1.38	1.53
2	B	572	GLU	CA-C	-8.49	1.41	1.52
2	B	435	SER	CA-C	-8.49	1.44	1.53
1	A	596	VAL	CA-C	-8.48	1.42	1.52
4	S	38	LEU	CA-C	-8.45	1.41	1.52
4	S	83	LEU	C-N	-8.45	1.21	1.33
2	B	460	SER	CA-C	-8.43	1.40	1.52
1	A	304	LEU	CA-C	8.41	1.63	1.52
4	S	93	GLU	CA-C	-8.39	1.42	1.52
1	A	257	LEU	CA-C	-8.37	1.41	1.52
2	B	73	ASP	CA-C	-8.36	1.42	1.53
1	A	409	VAL	CA-C	-8.36	1.44	1.53
2	B	583	PHE	CA-C	-8.35	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	S	125	TRP	CA-C	-8.34	1.42	1.52
1	A	304	LEU	N-CA	-8.33	1.36	1.46
1	A	453	VAL	N-CA	-8.33	1.36	1.46
2	B	289	PRO	C-N	-8.33	1.22	1.33
4	S	81	ALA	CA-CB	-8.31	1.39	1.53
4	S	144	THR	C-N	-8.30	1.21	1.33
3	M	8	THR	CA-C	-8.29	1.42	1.52
3	M	58	ARG	N-CA	-8.29	1.36	1.46
1	A	400	VAL	CA-C	-8.27	1.41	1.52
1	A	85	ALA	C-N	8.27	1.45	1.33
1	A	147	LEU	CA-C	-8.25	1.41	1.52
2	B	528	ASP	CA-C	-8.25	1.41	1.52
1	A	260	PHE	C-N	-8.25	1.23	1.33
3	M	425	THR	CA-C	8.23	1.62	1.52
4	S	104	THR	CA-C	-8.23	1.41	1.52
2	B	264	THR	C-N	-8.22	1.23	1.33
2	B	416	LYS	CA-C	-8.22	1.41	1.52
3	M	391	ILE	CA-C	-8.22	1.42	1.52
4	S	42	ARG	C-N	-8.22	1.22	1.33
3	M	228	LYS	C-N	-8.21	1.22	1.33
1	A	285	THR	CA-C	-8.20	1.42	1.52
4	S	141	VAL	CA-C	-8.20	1.42	1.52
2	B	337	THR	CA-C	-8.17	1.41	1.52
1	A	401	VAL	CA-C	-8.16	1.42	1.52
2	B	501	THR	N-CA	-8.16	1.35	1.46
3	M	441	GLY	CA-C	-8.15	1.40	1.51
2	B	458	MET	C-N	8.14	1.45	1.33
1	A	404	GLN	N-CA	-8.13	1.35	1.46
1	A	607	LEU	CA-C	-8.12	1.42	1.52
2	B	82	TYR	N-CA	-8.12	1.35	1.46
1	A	392	MET	N-CA	-8.12	1.35	1.46
3	M	355	ASP	CA-C	8.12	1.63	1.52
1	A	417	PRO	C-N	-8.08	1.23	1.33
3	M	115	VAL	N-CA	-8.07	1.36	1.46
3	M	367	ALA	CA-CB	-8.07	1.41	1.53
1	A	303	MET	CA-C	-8.06	1.42	1.52
2	B	415	LEU	CA-C	-8.05	1.42	1.52
1	A	306	GLU	C-N	-8.04	1.22	1.34
4	S	130	SER	CA-C	-8.04	1.42	1.52
1	A	364	ASP	CA-C	-8.03	1.42	1.52
2	B	381	PHE	CA-C	-8.03	1.41	1.52
2	B	328	LEU	CA-C	-8.02	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	S	143	GLU	C-N	-8.01	1.21	1.33
3	M	276	VAL	C-N	8.00	1.44	1.33
3	M	398	ILE	CA-C	7.98	1.62	1.52
1	A	188	VAL	CA-C	-7.98	1.43	1.52
1	A	399	ASP	N-CA	-7.96	1.36	1.46
4	S	157	ASN	CA-C	-7.95	1.41	1.52
3	M	438	SER	N-CA	-7.93	1.36	1.46
4	S	28	GLN	CA-C	-7.93	1.42	1.52
3	M	373	ALA	C-N	-7.91	1.22	1.33
1	A	308	ASP	N-CA	-7.90	1.35	1.46
3	M	309	GLN	CA-C	-7.89	1.42	1.52
1	A	624	LEU	CA-C	-7.89	1.42	1.52
3	M	426	LYS	C-N	-7.88	1.23	1.33
1	A	451	ASN	CA-C	-7.85	1.42	1.52
2	B	426	GLU	N-CA	-7.85	1.37	1.46
1	A	362	ASP	C-N	-7.85	1.25	1.34
3	M	310	VAL	N-CA	-7.84	1.36	1.46
2	B	428	VAL	CA-C	-7.83	1.40	1.52
3	M	248	SER	CA-C	-7.83	1.43	1.52
2	B	108	PHE	C-N	-7.83	1.23	1.34
2	B	574	ASN	N-CA	-7.83	1.35	1.46
3	M	297	PHE	N-CA	-7.83	1.36	1.46
2	B	408	VAL	CA-C	-7.82	1.41	1.52
1	A	547	VAL	N-CA	-7.81	1.37	1.46
2	B	355	ASN	N-CA	-7.81	1.36	1.46
3	M	230	LYS	C-N	7.81	1.44	1.33
2	B	192	LEU	CA-C	-7.81	1.42	1.52
1	A	353	ASP	N-CA	-7.79	1.37	1.46
3	M	284	SER	C-N	-7.78	1.24	1.33
2	B	271	GLU	CA-C	-7.76	1.43	1.52
2	B	526	CYS	N-CA	-7.75	1.35	1.46
1	A	516	ILE	CA-C	-7.74	1.42	1.52
3	M	424	PHE	C-N	-7.71	1.22	1.33
1	A	302	ASN	N-CA	-7.71	1.36	1.46
2	B	554	LYS	CA-C	-7.71	1.43	1.52
3	M	56	VAL	C-N	-7.70	1.22	1.33
4	S	54	PRO	CA-C	7.70	1.59	1.52
1	A	271	ARG	CA-C	-7.70	1.43	1.52
1	A	472	LYS	CA-C	-7.68	1.42	1.52
4	S	54	PRO	N-CA	7.67	1.62	1.46
1	A	562	TRP	CA-C	-7.67	1.41	1.52
2	B	475	ILE	CA-C	-7.67	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	M	90	PHE	CA-C	-7.65	1.42	1.52
3	M	419	ASN	C-N	-7.65	1.23	1.33
1	A	338	PHE	CA-C	-7.64	1.43	1.52
1	A	281	LEU	C-N	-7.63	1.22	1.33
3	M	296	LYS	N-CA	7.63	1.55	1.46
2	B	238	LYS	CA-C	7.63	1.63	1.52
1	A	602	GLU	C-N	7.62	1.43	1.33
2	B	75	ASP	C-N	-7.61	1.22	1.33
1	A	611	LEU	CA-C	-7.61	1.43	1.52
1	A	434	SER	CA-C	-7.61	1.42	1.52
3	M	374	TYR	N-CA	-7.61	1.36	1.45
1	A	519	LEU	CA-C	7.59	1.63	1.52
2	B	207	VAL	CA-C	-7.59	1.42	1.52
4	S	120	ASP	CA-C	-7.59	1.42	1.52
3	M	389	SER	CA-C	-7.59	1.43	1.53
1	A	103	LYS	C-N	-7.59	1.23	1.33
1	A	604	LEU	CA-C	-7.59	1.42	1.52
3	M	477	GLY	CA-C	-7.57	1.44	1.51
3	M	123	LEU	CA-C	-7.57	1.42	1.52
2	B	107	ARG	CA-C	7.56	1.62	1.52
3	M	468	LYS	CA-C	-7.56	1.44	1.52
4	S	27	LYS	CA-C	-7.56	1.42	1.52
1	A	415	ARG	C-N	-7.55	1.24	1.33
2	B	220	ALA	N-CA	-7.55	1.37	1.46
4	S	100	ASP	CA-C	-7.54	1.42	1.52
2	B	443	SER	N-CA	-7.54	1.36	1.46
1	A	114	PHE	CA-C	-7.53	1.42	1.52
2	B	407	ASN	N-CA	-7.53	1.35	1.46
1	A	85	ALA	CA-C	7.51	1.62	1.52
2	B	419	VAL	N-CA	-7.51	1.37	1.46
2	B	592	TYR	CA-C	-7.50	1.43	1.52
2	B	584	SER	N-CA	-7.49	1.37	1.46
3	M	72	LEU	C-N	-7.46	1.23	1.33
3	M	407	THR	N-CA	-7.45	1.36	1.45
2	B	83	PHE	N-CA	-7.44	1.36	1.46
4	S	3	HIS	C-N	7.43	1.42	1.33
4	S	88	ILE	CA-C	-7.43	1.43	1.52
3	M	456	SER	C-N	7.43	1.43	1.33
1	A	532	LEU	C-N	7.42	1.43	1.33
2	B	411	ILE	CA-C	-7.41	1.43	1.52
2	B	299	LEU	CA-C	-7.39	1.43	1.52
2	B	84	ALA	CA-C	-7.37	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	490	ILE	CA-C	-7.36	1.43	1.52
3	M	476	THR	C-N	-7.36	1.23	1.33
1	A	177	ILE	CA-C	-7.36	1.42	1.52
1	A	511	VAL	CA-C	-7.35	1.43	1.52
2	B	488	ARG	CA-C	-7.34	1.43	1.52
1	A	450	TYR	CA-C	-7.34	1.43	1.52
2	B	381	PHE	C-N	-7.32	1.23	1.33
2	B	370	ASP	CA-C	-7.32	1.46	1.53
1	A	233	PHE	C-N	-7.32	1.25	1.34
1	A	158	LEU	CA-C	-7.31	1.43	1.52
1	A	495	ILE	CA-C	-7.31	1.44	1.52
1	A	468	SER	N-CA	-7.30	1.36	1.46
3	M	303	SER	N-CA	-7.30	1.36	1.46
1	A	568	GLU	N-CA	-7.30	1.37	1.46
1	A	505	ASN	C-N	-7.29	1.23	1.33
3	M	458	LEU	CA-C	-7.28	1.42	1.53
1	A	243	ILE	N-CA	-7.27	1.32	1.46
4	S	145	ASN	N-CA	-7.25	1.37	1.46
1	A	395	PHE	CA-C	-7.25	1.42	1.52
4	S	148	ARG	CA-C	-7.23	1.43	1.52
1	A	220	SER	C-N	7.23	1.42	1.33
1	A	567	GLN	CA-C	-7.23	1.40	1.52
1	A	435	ILE	N-CA	-7.23	1.38	1.46
1	A	598	GLU	CA-C	-7.23	1.43	1.52
1	A	221	VAL	C-N	-7.21	1.25	1.34
3	M	418	GLU	N-CA	-7.21	1.36	1.45
2	B	158	VAL	CA-C	-7.20	1.43	1.52
1	A	85	ALA	CA-CB	-7.19	1.41	1.53
2	B	109	ALA	CA-CB	-7.19	1.41	1.53
3	M	253	ASN	N-CA	-7.18	1.36	1.46
2	B	523	PHE	N-CA	-7.18	1.36	1.46
2	B	333	GLN	N-CA	-7.18	1.37	1.46
2	B	460	SER	C-N	-7.18	1.24	1.33
1	A	405	THR	C-N	-7.17	1.23	1.33
2	B	489	ILE	CA-C	-7.16	1.43	1.52
4	S	90	ASP	CA-C	-7.16	1.42	1.53
3	M	55	MET	CA-C	7.15	1.61	1.53
4	S	35	VAL	CA-C	-7.15	1.43	1.52
1	A	548	GLN	CA-C	-7.15	1.43	1.52
1	A	529	GLY	N-CA	-7.13	1.35	1.45
2	B	323	ASN	CA-C	-7.13	1.43	1.52
1	A	159	ALA	CA-C	-7.12	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	447	GLU	N-CA	-7.12	1.37	1.46
1	A	446	ASP	N-CA	-7.11	1.37	1.46
4	S	105	PHE	N-CA	-7.11	1.36	1.46
1	A	613	ALA	CA-C	-7.11	1.43	1.52
1	A	388	VAL	N-CA	-7.10	1.38	1.46
2	B	439	CYS	CA-C	-7.10	1.43	1.52
2	B	584	SER	C-N	-7.08	1.23	1.33
1	A	298	ILE	CA-C	7.07	1.61	1.52
1	A	430	ASN	CA-C	-7.06	1.42	1.52
2	B	346	THR	CA-C	-7.05	1.43	1.52
2	B	317	VAL	CA-C	-7.05	1.41	1.52
3	M	111	ILE	CA-C	-7.04	1.43	1.52
1	A	589	SER	N-CA	-7.03	1.36	1.46
2	B	583	PHE	C-N	-7.03	1.24	1.33
3	M	363	ASN	N-CA	-7.01	1.37	1.46
2	B	331	PRO	N-CA	-7.01	1.38	1.47
3	M	250	LEU	C-N	-7.01	1.22	1.33
2	B	421	SER	CA-C	-7.01	1.42	1.52
3	M	296	LYS	C-N	-6.96	1.24	1.33
1	A	586	GLU	N-CA	-6.95	1.37	1.46
2	B	341	GLU	CA-C	-6.95	1.43	1.52
4	S	132	LEU	CA-C	-6.93	1.43	1.52
3	M	14	LEU	C-N	-6.93	1.23	1.33
3	M	44	ASP	N-CA	-6.92	1.37	1.46
4	S	106	VAL	CA-C	-6.92	1.44	1.52
1	A	515	CYS	CA-C	-6.92	1.43	1.52
1	A	341	ILE	N-CA	-6.92	1.38	1.46
2	B	151	ALA	CA-C	-6.92	1.44	1.52
2	B	99	ARG	CA-C	-6.92	1.44	1.52
1	A	86	TRP	CA-C	-6.90	1.43	1.52
1	A	452	ALA	CA-C	-6.90	1.44	1.52
1	A	331	ARG	CA-C	-6.90	1.43	1.52
1	A	280	GLU	C-N	6.90	1.44	1.33
2	B	512	VAL	C-N	6.90	1.42	1.33
3	M	46	SER	N-CA	-6.90	1.37	1.46
2	B	503	LEU	CA-C	-6.88	1.43	1.52
3	M	427	LYS	N-CA	-6.87	1.38	1.46
1	A	309	PHE	N-CA	-6.87	1.38	1.46
1	A	323	CYS	C-N	6.87	1.43	1.33
1	A	617	ASP	CA-C	-6.86	1.43	1.52
2	B	461	HIS	CA-C	-6.85	1.43	1.52
1	A	166	LEU	CA-C	-6.84	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	M	388	ASN	CA-C	6.83	1.61	1.52
2	B	439	CYS	N-CA	-6.82	1.38	1.46
4	S	122	ILE	N-CA	-6.81	1.38	1.46
3	M	456	SER	N-CA	-6.80	1.37	1.46
3	M	302	TYR	CA-C	-6.80	1.44	1.52
2	B	139	LEU	CA-C	-6.79	1.43	1.52
1	A	533	ILE	CA-C	-6.79	1.44	1.52
1	A	394	GLN	C-O	-6.79	1.16	1.24
4	S	17	VAL	C-N	-6.78	1.23	1.33
1	A	77	LEU	CA-C	6.77	1.61	1.52
2	B	191	GLU	CA-C	-6.77	1.43	1.52
3	M	83	SER	C-N	-6.77	1.24	1.33
3	M	212	ASN	N-CA	-6.77	1.33	1.46
1	A	392	MET	CA-C	-6.76	1.43	1.52
1	A	264	SER	CA-C	-6.76	1.43	1.52
4	S	127	THR	CA-C	-6.76	1.44	1.52
1	A	243	ILE	C-N	6.75	1.43	1.33
3	M	478	ASN	N-CA	-6.75	1.37	1.45
4	S	34	GLN	CA-C	-6.75	1.44	1.52
2	B	134	LEU	CA-C	-6.74	1.44	1.52
1	A	454	ILE	CA-C	-6.73	1.44	1.52
1	A	509	PRO	N-CD	6.72	1.57	1.47
1	A	450	TYR	C-N	6.72	1.42	1.33
3	M	446	GLY	CA-C	6.72	1.61	1.51
1	A	91	ILE	CA-C	-6.72	1.44	1.52
2	B	177	ILE	CA-C	-6.72	1.44	1.52
4	S	43	ASN	N-CA	-6.71	1.37	1.46
1	A	176	TYR	CA-C	-6.71	1.44	1.52
1	A	323	CYS	CA-C	6.71	1.64	1.52
2	B	384	PHE	N-CA	-6.71	1.35	1.46
3	M	40	GLN	C-N	6.70	1.43	1.33
2	B	607	ILE	CA-C	-6.70	1.44	1.52
2	B	537	PHE	CA-C	-6.70	1.43	1.52
2	B	267	ASP	C-N	-6.70	1.23	1.33
2	B	555	LEU	CA-C	-6.69	1.43	1.52
3	M	47	SER	N-CA	6.68	1.53	1.45
3	M	54	SER	N-CA	6.68	1.54	1.46
2	B	563	PHE	CA-C	-6.68	1.45	1.52
1	A	403	LEU	N-CA	-6.67	1.37	1.46
2	B	383	VAL	N-CA	-6.67	1.38	1.46
1	A	230	PRO	N-CD	-6.67	1.38	1.47
3	M	94	GLU	CA-C	-6.67	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	584	SER	CA-C	-6.67	1.44	1.52
2	B	587	ARG	CA-C	-6.66	1.43	1.52
3	M	92	PHE	C-N	6.66	1.42	1.33
4	S	98	ILE	CA-C	-6.66	1.43	1.52
2	B	454	LEU	CA-C	-6.65	1.44	1.52
1	A	225	LEU	N-CA	-6.64	1.38	1.46
2	B	589	SER	CA-C	-6.64	1.44	1.52
4	S	137	GLN	N-CA	-6.64	1.37	1.46
1	A	555	LEU	CA-C	-6.64	1.43	1.52
2	B	243	TRP	CA-C	-6.64	1.44	1.52
3	M	417	TYR	CA-C	-6.63	1.45	1.53
2	B	209	SER	CA-C	-6.62	1.43	1.52
3	M	124	ILE	CA-C	-6.62	1.44	1.52
4	S	125	TRP	N-CA	-6.62	1.38	1.46
1	A	74	LEU	C-N	6.61	1.42	1.33
1	A	309	PHE	CA-C	-6.61	1.44	1.52
4	S	55	PRO	N-CD	6.60	1.56	1.47
2	B	374	PHE	N-CA	-6.59	1.37	1.45
2	B	559	ASP	N-CA	-6.59	1.37	1.46
2	B	594	ALA	CA-C	-6.59	1.44	1.52
4	S	74	GLN	C-N	-6.59	1.25	1.33
4	S	154	ASP	CA-C	-6.59	1.43	1.52
4	S	164	ASP	N-CA	6.59	1.54	1.46
2	B	278	PRO	C-N	-6.59	1.22	1.33
3	M	13	LYS	N-CA	-6.59	1.38	1.46
4	S	93	GLU	C-N	-6.58	1.24	1.33
1	A	407	SER	CA-C	-6.58	1.44	1.53
1	A	476	GLN	CA-C	-6.58	1.43	1.52
3	M	441	GLY	N-CA	-6.58	1.35	1.45
1	A	179	LYS	CA-C	-6.57	1.44	1.52
1	A	252	ILE	CA-C	-6.56	1.43	1.52
2	B	291	TYR	N-CA	-6.55	1.37	1.46
1	A	204	VAL	N-CA	-6.54	1.38	1.46
3	M	477	GLY	N-CA	-6.54	1.39	1.45
1	A	433	ILE	C-N	6.54	1.42	1.33
1	A	265	GLN	CA-C	-6.53	1.44	1.52
2	B	502	SER	CA-C	-6.53	1.44	1.52
4	S	100	ASP	C-O	6.53	1.32	1.24
1	A	416	ILE	C-N	6.52	1.41	1.33
3	M	362	PHE	CA-C	-6.51	1.44	1.53
2	B	102	HIS	C-N	-6.51	1.25	1.33
1	A	275	LEU	N-CA	-6.50	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	226	SER	CA-C	-6.50	1.43	1.52
1	A	477	PHE	CA-C	-6.49	1.44	1.52
1	A	531	ASP	N-CA	-6.49	1.37	1.46
2	B	345	ARG	CA-C	-6.48	1.44	1.52
2	B	359	LEU	CA-C	-6.47	1.44	1.52
3	M	444	ALA	CA-CB	6.47	1.63	1.53
1	A	234	ILE	N-CA	-6.46	1.39	1.46
2	B	312	SER	C-N	-6.46	1.24	1.33
2	B	273	SER	N-CA	-6.46	1.35	1.46
2	B	409	LYS	CA-C	-6.45	1.44	1.52
1	A	155	THR	CA-C	-6.45	1.45	1.53
1	A	390	THR	CA-C	-6.44	1.44	1.52
1	A	488	ARG	C-N	6.44	1.42	1.33
1	A	421	PRO	CA-C	-6.43	1.43	1.52
2	B	497	LEU	N-CA	-6.43	1.37	1.46
1	A	202	LYS	CA-C	-6.43	1.44	1.52
1	A	492	ILE	CA-C	-6.42	1.45	1.52
1	A	607	LEU	N-CA	-6.41	1.38	1.46
2	B	215	TYR	CA-C	-6.40	1.44	1.52
3	M	118	TYR	CA-C	-6.40	1.44	1.52
4	S	77	TYR	N-CA	-6.40	1.38	1.46
3	M	480	GLN	C-N	-6.39	1.25	1.33
1	A	610	SER	CA-C	-6.39	1.43	1.52
1	A	180	LYS	N-CA	-6.39	1.38	1.46
2	B	422	ALA	C-N	-6.39	1.25	1.33
1	A	330	LEU	CA-C	-6.38	1.44	1.52
3	M	303	SER	CA-C	-6.38	1.44	1.52
4	S	33	GLU	CA-C	-6.38	1.43	1.52
1	A	458	ALA	CA-C	-6.37	1.44	1.52
1	A	76	TYR	CA-C	-6.37	1.44	1.52
1	A	278	ILE	N-CA	-6.37	1.34	1.46
4	S	134	GLU	CA-C	-6.37	1.44	1.52
1	A	518	CYS	N-CA	-6.36	1.39	1.46
2	B	155	LEU	CA-C	-6.36	1.44	1.52
1	A	387	ILE	N-CA	-6.35	1.38	1.46
2	B	531	ARG	N-CA	-6.35	1.38	1.46
1	A	445	ASN	N-CA	-6.34	1.38	1.46
1	A	634	ASN	CA-C	-6.34	1.44	1.52
1	A	600	SER	CA-C	-6.33	1.45	1.52
4	S	159	ALA	CA-CB	6.33	1.63	1.53
1	A	383	ASN	CA-C	-6.32	1.44	1.52
4	S	159	ALA	CA-C	-6.32	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	M	252	ASP	C-N	-6.32	1.20	1.33
3	M	371	GLU	N-CA	-6.32	1.38	1.46
2	B	493	LEU	CA-C	-6.31	1.44	1.52
1	A	375	VAL	C-O	6.31	1.31	1.24
1	A	517	TRP	CA-C	-6.31	1.44	1.52
3	M	387	GLU	N-CA	-6.30	1.38	1.46
2	B	513	TRP	CA-C	-6.29	1.44	1.52
2	B	531	ARG	CA-C	-6.29	1.45	1.52
1	A	495	ILE	N-CA	-6.28	1.39	1.46
2	B	263	PRO	C-N	-6.28	1.25	1.33
1	A	201	ASP	CA-C	-6.28	1.44	1.52
2	B	188	TYR	CA-C	-6.28	1.43	1.52
2	B	263	PRO	N-CA	-6.27	1.40	1.47
2	B	563	PHE	C-N	6.26	1.42	1.33
3	M	396	GLN	C-N	-6.26	1.24	1.33
1	A	507	GLN	CA-C	-6.26	1.44	1.52
1	A	533	ILE	C-N	6.25	1.42	1.33
2	B	382	TYR	C-N	-6.25	1.25	1.33
1	A	181	ALA	CA-C	-6.25	1.44	1.52
4	S	150	VAL	CA-C	-6.24	1.45	1.52
4	S	46	PHE	N-CA	-6.23	1.38	1.46
3	M	385	ARG	CA-C	6.23	1.59	1.52
3	M	415	ILE	C-N	-6.23	1.25	1.33
3	M	362	PHE	C-N	-6.23	1.25	1.33
4	S	33	GLU	N-CA	-6.23	1.37	1.46
1	A	77	LEU	C-O	6.22	1.31	1.24
1	A	552	ILE	CA-C	-6.21	1.44	1.52
2	B	547	GLN	CA-C	-6.21	1.44	1.52
1	A	609	LEU	CA-C	-6.21	1.45	1.52
2	B	326	TYR	N-CA	-6.21	1.37	1.46
2	B	522	GLU	C-N	-6.20	1.25	1.33
3	M	273	HIS	C-N	-6.20	1.25	1.34
3	M	277	GLU	C-O	6.19	1.31	1.24
3	M	355	ASP	C-N	-6.18	1.25	1.33
2	B	461	HIS	N-CA	-6.18	1.39	1.46
3	M	241	HIS	C-N	-6.18	1.28	1.33
1	A	139	ASP	CA-C	-6.17	1.44	1.52
2	B	48	VAL	CA-C	-6.17	1.45	1.52
1	A	256	LEU	CA-C	-6.15	1.44	1.52
2	B	532	ARG	CA-C	-6.15	1.44	1.52
2	B	306	LEU	N-CA	-6.15	1.38	1.46
2	B	544	THR	CA-C	-6.15	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	601	VAL	C-N	-6.15	1.25	1.33
4	S	73	ILE	N-CA	6.13	1.54	1.46
3	M	407	THR	CA-C	-6.13	1.45	1.52
1	A	528	ASN	C-N	-6.13	1.26	1.33
4	S	16	LEU	C-N	-6.12	1.25	1.33
1	A	494	ASN	CA-C	-6.12	1.45	1.52
3	M	408	VAL	N-CA	-6.11	1.39	1.46
3	M	86	PRO	N-CA	-6.11	1.39	1.47
1	A	613	ALA	N-CA	-6.10	1.39	1.46
3	M	16	PHE	C-N	-6.10	1.25	1.33
3	M	345	GLU	N-CA	-6.10	1.38	1.46
4	S	165	SER	C-N	6.09	1.42	1.33
2	B	424	PHE	N-CA	-6.08	1.35	1.46
2	B	447	GLU	CA-C	-6.08	1.44	1.52
2	B	495	ASP	CA-C	-6.08	1.44	1.52
2	B	571	SER	N-CA	-6.07	1.38	1.46
2	B	272	GLY	CA-C	-6.07	1.44	1.51
4	S	31	LEU	CA-C	-6.07	1.44	1.52
3	M	317	MET	CA-C	-6.07	1.44	1.52
2	B	319	LEU	CA-C	-6.07	1.45	1.52
4	S	151	ALA	CA-C	-6.05	1.45	1.52
2	B	299	LEU	C-N	6.05	1.42	1.33
2	B	595	VAL	CA-C	-6.04	1.45	1.52
3	M	25	PRO	N-CA	-6.04	1.38	1.47
2	B	569	THR	CA-C	-6.03	1.44	1.52
4	S	109	LEU	C-O	-6.03	1.17	1.24
1	A	628	VAL	CA-C	-6.03	1.44	1.52
2	B	521	ILE	N-CA	-6.03	1.38	1.46
4	S	139	GLY	CA-C	-6.03	1.42	1.51
2	B	77	ILE	N-CA	-6.03	1.39	1.46
3	M	276	VAL	CA-C	6.02	1.59	1.52
4	S	142	ILE	N-CA	6.01	1.52	1.46
1	A	311	THR	CA-C	-6.01	1.45	1.52
4	S	95	GLU	CA-C	-6.01	1.45	1.52
1	A	380	ASP	CA-C	-6.01	1.45	1.52
1	A	475	GLU	CA-C	-6.01	1.44	1.52
3	M	382	THR	CA-C	6.01	1.60	1.52
1	A	551	LEU	CA-C	-6.01	1.44	1.52
2	B	361	GLN	CA-C	-6.01	1.45	1.52
2	B	412	PHE	CA-C	-6.01	1.44	1.52
2	B	305	SER	CA-C	-6.00	1.45	1.52
1	A	436	CYS	CA-C	6.00	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	M	97	ASP	C-N	6.00	1.42	1.33
2	B	74	ASP	C-N	-6.00	1.25	1.33
1	A	87	CYS	CA-C	-5.98	1.44	1.52
1	A	605	GLU	C-N	5.98	1.41	1.33
1	A	304	LEU	C-O	5.98	1.31	1.24
3	M	447	ILE	N-CA	5.98	1.53	1.46
2	B	67	ILE	CA-C	-5.97	1.43	1.52
2	B	474	VAL	CA-C	-5.97	1.45	1.52
1	A	173	THR	CA-C	5.97	1.61	1.53
2	B	378	THR	N-CA	-5.97	1.38	1.46
2	B	408	VAL	N-CA	-5.97	1.39	1.46
2	B	128	SER	CA-C	5.96	1.60	1.52
3	M	344	ILE	CA-C	-5.96	1.45	1.52
2	B	189	HIS	N-CA	-5.96	1.38	1.46
4	S	129	GLU	CA-C	-5.96	1.45	1.52
2	B	422	ALA	N-CA	-5.95	1.37	1.45
2	B	109	ALA	CA-C	-5.95	1.44	1.52
3	M	122	SER	C-N	5.94	1.42	1.33
2	B	450	VAL	N-CA	-5.94	1.39	1.46
3	M	368	ASP	CA-C	-5.94	1.45	1.52
2	B	459	GLU	CA-C	5.94	1.60	1.52
2	B	486	HIS	N-CA	-5.94	1.39	1.46
2	B	619	ASP	CA-C	-5.93	1.45	1.52
2	B	135	ARG	CA-C	-5.92	1.44	1.52
2	B	82	TYR	CA-C	-5.91	1.44	1.52
1	A	506	LYS	N-CA	-5.91	1.38	1.46
2	B	553	ALA	CA-C	-5.91	1.45	1.52
4	S	155	GLU	CA-C	-5.91	1.45	1.52
2	B	163	THR	N-CA	-5.91	1.37	1.46
2	B	76	SER	N-CA	-5.90	1.38	1.46
1	A	397	ASP	CA-C	5.90	1.60	1.52
1	A	621	LEU	C-N	-5.89	1.26	1.34
2	B	469	ASP	CA-C	-5.88	1.45	1.52
2	B	504	ALA	CA-C	-5.88	1.45	1.52
3	M	457	GLY	CA-C	-5.88	1.43	1.51
1	A	452	ALA	N-CA	-5.88	1.39	1.46
2	B	193	LEU	CA-C	-5.88	1.44	1.52
2	B	496	LEU	CA-C	-5.87	1.44	1.52
3	M	10	THR	N-CA	-5.87	1.39	1.46
3	M	308	SER	C-N	5.87	1.41	1.33
3	M	424	PHE	N-CA	-5.87	1.38	1.46
1	A	216	SER	C-O	5.86	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	332	TYR	C-N	5.86	1.41	1.33
2	B	605	PHE	CA-C	-5.85	1.45	1.52
2	B	585	GLY	N-CA	-5.85	1.36	1.45
1	A	270	LEU	C-N	5.85	1.41	1.33
1	A	602	GLU	N-CA	-5.84	1.38	1.46
3	M	322	LEU	CA-C	-5.84	1.47	1.53
4	S	52	VAL	C-N	-5.84	1.26	1.33
2	B	279	LEU	N-CA	-5.84	1.39	1.46
1	A	404	GLN	CA-C	5.83	1.60	1.52
2	B	344	VAL	CA-C	-5.83	1.44	1.52
1	A	469	LEU	CA-C	-5.83	1.45	1.52
1	A	491	THR	CA-C	-5.83	1.45	1.52
1	A	115	TYR	N-CA	-5.83	1.38	1.45
2	B	81	LEU	N-CA	-5.83	1.39	1.46
3	M	120	ARG	N-CA	-5.82	1.38	1.46
4	S	39	ILE	N-CA	-5.82	1.38	1.46
4	S	84	TYR	N-CA	-5.82	1.38	1.45
2	B	301	LEU	CA-C	-5.82	1.44	1.52
3	M	294	ASP	CA-C	5.82	1.61	1.53
1	A	461	CYS	C-N	-5.82	1.25	1.33
2	B	158	VAL	N-CA	-5.82	1.39	1.46
2	B	404	ASN	C-N	-5.82	1.26	1.33
2	B	444	THR	C-N	-5.82	1.26	1.34
3	M	125	PHE	N-CA	-5.82	1.39	1.46
3	M	382	THR	C-N	5.81	1.41	1.33
1	A	359	LEU	CA-C	-5.81	1.44	1.52
2	B	437	SER	CA-C	-5.81	1.44	1.52
1	A	292	TYR	N-CA	-5.81	1.38	1.46
1	A	490	VAL	CA-C	-5.81	1.45	1.52
2	B	74	ASP	CA-C	-5.80	1.45	1.52
3	M	238	GLY	CA-C	-5.80	1.43	1.51
1	A	606	PHE	CA-C	-5.80	1.45	1.52
2	B	458	MET	N-CA	-5.80	1.39	1.46
4	S	143	GLU	N-CA	-5.80	1.39	1.46
2	B	535	GLN	N-CA	-5.80	1.38	1.46
4	S	124	ASN	CA-C	-5.80	1.46	1.53
3	M	124	ILE	N-CA	-5.79	1.39	1.46
2	B	213	LEU	N-CA	-5.79	1.38	1.46
2	B	145	MET	N-CA	-5.79	1.39	1.45
2	B	23	ALA	N-CA	5.79	1.53	1.46
2	B	302	PHE	CA-C	-5.79	1.45	1.52
1	A	274	LEU	C-N	-5.78	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	473	ILE	CA-C	-5.78	1.44	1.52
2	B	410	GLU	CA-C	-5.78	1.45	1.52
4	S	44	SER	N-CA	5.78	1.53	1.46
2	B	602	ASP	C-N	-5.77	1.24	1.33
2	B	253	ILE	CA-C	-5.77	1.45	1.52
2	B	350	THR	N-CA	-5.77	1.38	1.46
1	A	619	GLU	CA-C	-5.77	1.45	1.52
1	A	523	SER	N-CA	-5.76	1.38	1.46
1	A	236	LEU	CA-C	-5.76	1.45	1.52
1	A	602	GLU	CA-C	-5.76	1.44	1.52
4	S	12	CYS	CA-C	-5.75	1.45	1.53
3	M	427	LYS	CA-C	5.75	1.59	1.52
1	A	608	ARG	CA-C	-5.75	1.45	1.52
4	S	27	LYS	N-CA	-5.75	1.38	1.46
2	B	324	ALA	CA-C	-5.75	1.44	1.52
4	S	101	LEU	CA-C	-5.74	1.44	1.52
3	M	298	ARG	C-N	-5.74	1.25	1.33
1	A	156	PRO	C-N	-5.74	1.25	1.33
4	S	108	SER	C-N	5.74	1.41	1.33
1	A	547	VAL	C-N	5.74	1.41	1.33
3	M	445	SER	C-N	5.74	1.41	1.33
1	A	502	ASP	CA-C	-5.73	1.45	1.52
1	A	559	PHE	CA-C	-5.73	1.45	1.52
3	M	372	ILE	CA-C	-5.73	1.45	1.52
2	B	382	TYR	CA-C	-5.72	1.45	1.52
2	B	100	LEU	N-CA	-5.72	1.39	1.46
1	A	518	CYS	CA-C	-5.71	1.45	1.52
1	A	125	THR	CA-C	-5.71	1.45	1.52
1	A	300	LYS	CA-C	-5.71	1.45	1.52
2	B	389	ILE	C-N	-5.70	1.27	1.33
3	M	313	SER	CA-C	5.70	1.60	1.52
3	M	418	GLU	CA-C	5.69	1.60	1.52
2	B	138	ALA	CA-C	-5.69	1.45	1.52
1	A	155	THR	C-N	5.69	1.42	1.33
2	B	321	CYS	CA-C	-5.68	1.45	1.52
2	B	494	ALA	N-CA	-5.68	1.39	1.46
2	B	520	SER	CA-C	-5.68	1.44	1.52
3	M	92	PHE	CA-C	-5.68	1.45	1.52
2	B	119	SER	CA-C	-5.68	1.44	1.52
3	M	256	VAL	C-N	5.67	1.41	1.33
1	A	320	HIS	N-CA	-5.67	1.39	1.46
4	S	163	THR	C-N	5.67	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	83	PHE	CA-C	-5.67	1.45	1.52
1	A	193	PRO	N-CA	-5.67	1.40	1.47
2	B	251	LEU	CA-C	-5.67	1.45	1.52
2	B	444	THR	N-CA	-5.67	1.39	1.46
4	S	153	VAL	CA-C	-5.66	1.45	1.52
1	A	191	GLN	CA-C	5.66	1.59	1.52
1	A	595	GLU	N-CA	-5.66	1.39	1.46
2	B	97	VAL	CA-C	-5.66	1.46	1.52
2	B	498	THR	N-CA	-5.65	1.38	1.46
1	A	628	VAL	N-CA	-5.65	1.39	1.46
1	A	295	VAL	N-CA	-5.64	1.39	1.46
1	A	124	ALA	CA-C	-5.64	1.45	1.52
2	B	543	GLU	CA-C	-5.64	1.45	1.52
1	A	151	SER	N-CA	-5.64	1.38	1.46
1	A	96	SER	CA-C	5.63	1.60	1.52
1	A	448	GLU	C-N	-5.63	1.25	1.33
2	B	570	GLY	CA-C	-5.63	1.44	1.51
1	A	107	TYR	CA-C	-5.63	1.45	1.52
1	A	501	ASN	C-N	-5.63	1.26	1.34
2	B	77	ILE	CA-C	-5.63	1.46	1.52
1	A	506	LYS	C-N	-5.62	1.25	1.33
3	M	25	PRO	CA-C	-5.62	1.41	1.52
3	M	331	LEU	C-N	-5.62	1.27	1.33
4	S	128	LEU	CA-C	-5.62	1.45	1.52
2	B	449	HIS	CA-C	-5.62	1.45	1.52
2	B	166	SER	CA-C	-5.62	1.45	1.52
2	B	192	LEU	N-CA	-5.62	1.39	1.46
1	A	72	LEU	N-CA	-5.61	1.39	1.46
1	A	128	LEU	CA-C	-5.61	1.44	1.52
2	B	72	SER	CA-C	-5.61	1.44	1.52
2	B	530	LEU	CA-C	-5.61	1.44	1.52
2	B	430	ILE	C-N	5.60	1.41	1.33
2	B	579	PRO	N-CD	-5.59	1.40	1.47
3	M	252	ASP	CA-C	-5.59	1.46	1.53
2	B	111	ASN	CA-C	5.59	1.60	1.52
3	M	291	ILE	CA-C	5.59	1.58	1.52
1	A	134	TYR	CA-C	-5.58	1.45	1.52
2	B	106	LEU	C-N	5.58	1.40	1.33
3	M	240	ILE	N-CA	-5.58	1.39	1.46
1	A	582	ILE	CA-C	-5.57	1.45	1.52
3	M	466	LEU	CA-C	5.57	1.59	1.52
4	S	109	LEU	C-N	-5.57	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	311	THR	N-CA	-5.56	1.39	1.46
1	A	425	LYS	CA-C	-5.56	1.45	1.52
4	S	102	ILE	CA-C	-5.56	1.45	1.52
1	A	200	PHE	N-CA	-5.56	1.39	1.46
2	B	322	CYS	CA-C	-5.56	1.45	1.52
1	A	618	THR	N-CA	-5.55	1.39	1.46
1	A	581	LEU	CA-C	-5.54	1.44	1.52
1	A	539	ASN	C-N	-5.54	1.26	1.33
3	M	355	ASP	N-CA	-5.54	1.39	1.46
3	M	47	SER	CA-C	-5.54	1.46	1.52
1	A	571	ARG	C-N	-5.54	1.26	1.34
3	M	269	ILE	C-N	-5.54	1.28	1.33
4	S	103	GLN	C-N	5.54	1.42	1.33
2	B	341	GLU	N-CA	-5.53	1.39	1.46
2	B	46	GLN	CA-C	-5.53	1.43	1.52
1	A	535	ILE	N-CA	-5.53	1.35	1.46
3	M	86	PRO	C-N	5.53	1.41	1.34
1	A	274	LEU	N-CA	-5.52	1.39	1.46
2	B	373	LEU	CA-C	-5.52	1.45	1.52
2	B	503	LEU	N-CA	-5.52	1.39	1.46
1	A	141	VAL	CA-C	-5.52	1.45	1.52
1	A	225	LEU	C-N	5.51	1.41	1.34
3	M	386	PHE	C-N	-5.51	1.25	1.33
4	S	137	GLN	CA-C	-5.51	1.45	1.52
2	B	79	VAL	CA-C	-5.51	1.45	1.52
1	A	570	LYS	C-N	-5.51	1.25	1.33
1	A	624	LEU	N-CA	-5.51	1.39	1.46
2	B	73	ASP	N-CA	-5.50	1.38	1.46
2	B	573	GLU	CA-C	-5.49	1.45	1.52
3	M	237	THR	C-N	-5.49	1.25	1.33
4	S	45	ASP	CA-C	5.49	1.60	1.52
1	A	412	LYS	CA-C	-5.49	1.45	1.52
2	B	598	LEU	N-CA	-5.48	1.39	1.46
1	A	180	LYS	CA-C	-5.48	1.45	1.52
2	B	432	ALA	CA-C	-5.48	1.45	1.52
4	S	85	PHE	C-N	-5.48	1.25	1.33
2	B	597	TYR	CA-C	-5.48	1.45	1.52
3	M	96	ILE	CA-C	-5.48	1.44	1.52
2	B	512	VAL	CA-C	-5.48	1.45	1.52
1	A	150	LEU	N-CA	-5.47	1.39	1.46
1	A	172	SER	CA-C	-5.47	1.45	1.52
4	S	86	THR	CA-C	5.47	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	389	GLN	CA-C	-5.47	1.45	1.52
3	M	260	LEU	CA-C	-5.47	1.46	1.52
2	B	157	THR	CA-C	-5.46	1.45	1.52
1	A	229	ASN	CA-C	-5.46	1.46	1.53
2	B	244	SER	CA-C	-5.46	1.45	1.52
2	B	237	ILE	C-N	-5.45	1.26	1.33
2	B	455	ILE	N-CA	-5.45	1.40	1.46
2	B	552	SER	CA-C	-5.45	1.45	1.52
1	A	433	ILE	N-CA	-5.45	1.40	1.46
4	S	38	LEU	N-CA	-5.45	1.39	1.46
2	B	55	ASN	CA-C	-5.44	1.46	1.52
2	B	549	LEU	CA-C	-5.44	1.46	1.52
1	A	282	MET	N-CA	-5.43	1.39	1.46
2	B	210	CYS	C-N	-5.43	1.26	1.33
2	B	356	LYS	CA-C	-5.43	1.46	1.52
2	B	310	ILE	N-CA	-5.42	1.39	1.46
3	M	426	LYS	CA-C	-5.41	1.47	1.53
1	A	270	LEU	N-CA	-5.40	1.39	1.46
4	S	87	PHE	C-N	-5.40	1.26	1.33
1	A	406	GLY	N-CA	-5.40	1.37	1.45
2	B	34	SER	CA-C	-5.40	1.45	1.52
4	S	152	SER	CA-C	-5.39	1.45	1.52
2	B	430	ILE	CA-C	-5.39	1.46	1.52
1	A	390	THR	N-CA	-5.39	1.39	1.46
2	B	433	VAL	CA-C	-5.39	1.45	1.52
3	M	254	PRO	N-CA	-5.39	1.40	1.47
1	A	396	VAL	N-CA	-5.38	1.40	1.46
2	B	111	ASN	N-CA	5.38	1.53	1.46
1	A	242	GLU	C-N	-5.38	1.25	1.33
2	B	463	LEU	C-N	5.37	1.40	1.33
1	A	462	GLN	C-N	-5.37	1.26	1.33
2	B	297	PRO	N-CA	-5.36	1.40	1.47
2	B	596	LEU	N-CA	-5.36	1.40	1.46
4	S	1	MET	C-N	-5.36	1.25	1.33
1	A	596	VAL	N-CA	-5.36	1.40	1.46
1	A	489	GLU	CA-C	-5.35	1.45	1.52
2	B	493	LEU	N-CA	-5.35	1.39	1.46
2	B	311	TYR	N-CA	-5.34	1.39	1.46
1	A	550	VAL	CA-C	-5.34	1.46	1.52
2	B	211	ALA	N-CA	5.33	1.53	1.46
2	B	213	LEU	CA-C	-5.33	1.45	1.52
2	B	514	LEU	CA-C	-5.33	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	105	LEU	C-N	-5.32	1.26	1.33
2	B	123	LEU	CA-C	-5.32	1.44	1.52
3	M	40	GLN	N-CA	-5.32	1.39	1.46
3	M	475	GLN	CA-C	-5.32	1.46	1.52
1	A	605	GLU	CA-C	-5.32	1.45	1.52
3	M	481	VAL	CA-C	-5.31	1.46	1.52
1	A	488	ARG	CA-C	-5.31	1.45	1.52
1	A	110	ALA	CA-CB	5.31	1.62	1.53
4	S	132	LEU	N-CA	-5.30	1.39	1.46
3	M	242	GLY	CA-C	-5.30	1.48	1.52
4	S	41	GLN	N-CA	-5.29	1.39	1.46
2	B	395	LYS	CA-C	-5.29	1.45	1.52
4	S	40	SER	N-CA	-5.29	1.39	1.46
2	B	364	HIS	CA-C	-5.29	1.45	1.52
4	S	18	LYS	C-N	-5.29	1.26	1.33
2	B	174	ALA	CA-CB	5.29	1.61	1.53
2	B	585	GLY	CA-C	-5.29	1.44	1.51
3	M	266	ASP	C-N	5.29	1.41	1.33
4	S	156	LEU	CA-C	-5.29	1.45	1.52
3	M	43	GLU	N-CA	-5.28	1.39	1.46
3	M	98	ARG	CA-C	-5.28	1.46	1.52
1	A	522	PHE	N-CA	-5.28	1.39	1.46
1	A	612	GLU	N-CA	-5.28	1.39	1.46
1	A	257	LEU	N-CA	-5.27	1.39	1.46
1	A	612	GLU	CA-C	-5.27	1.45	1.52
4	S	120	ASP	N-CA	-5.27	1.39	1.46
2	B	252	LEU	CA-C	-5.27	1.45	1.52
2	B	195	ILE	CA-C	-5.25	1.46	1.52
3	M	473	LYS	C-N	-5.25	1.26	1.33
4	S	13	GLN	N-CA	-5.25	1.37	1.46
1	A	117	ASP	CA-C	-5.25	1.45	1.52
3	M	329	ASN	CA-C	5.25	1.60	1.53
2	B	402	LEU	C-N	-5.25	1.24	1.33
1	A	426	ILE	CA-C	-5.24	1.46	1.52
2	B	248	LEU	CA-C	-5.24	1.45	1.52
4	S	101	LEU	C-O	5.24	1.30	1.24
1	A	158	LEU	C-N	5.24	1.40	1.33
2	B	346	THR	N-CA	-5.24	1.40	1.46
1	A	276	PRO	CA-C	5.23	1.60	1.52
1	A	155	THR	C-O	-5.23	1.17	1.23
1	A	615	GLU	N-CA	-5.23	1.40	1.46
1	A	636	TYR	CA-C	-5.22	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	167	ALA	CA-C	-5.22	1.46	1.52
2	B	362	ALA	CA-C	-5.22	1.45	1.52
2	B	63	MET	N-CA	-5.22	1.39	1.46
1	A	67	LYS	CA-C	-5.21	1.46	1.52
1	A	517	TRP	C-N	5.21	1.40	1.33
2	B	342	ALA	CA-C	-5.21	1.46	1.52
4	S	17	VAL	CA-C	-5.21	1.46	1.52
1	A	154	ILE	C-N	-5.21	1.25	1.33
1	A	313	MET	N-CA	-5.21	1.40	1.46
1	A	442	SER	CA-C	5.21	1.59	1.52
2	B	531	ARG	C-N	5.21	1.41	1.34
2	B	492	LYS	CA-C	-5.20	1.46	1.52
4	S	142	ILE	CA-C	-5.20	1.44	1.52
2	B	306	LEU	CA-C	-5.19	1.45	1.52
2	B	371	GLN	N-CA	-5.19	1.40	1.46
2	B	415	LEU	N-CA	-5.19	1.39	1.46
1	A	603	VAL	CA-C	-5.19	1.45	1.52
3	M	408	VAL	CA-C	-5.19	1.47	1.52
1	A	582	ILE	N-CA	-5.18	1.40	1.46
1	A	471	SER	CA-C	-5.18	1.46	1.52
1	A	239	LEU	CA-C	-5.17	1.45	1.52
2	B	324	ALA	N-CA	-5.17	1.39	1.46
2	B	496	LEU	N-CA	-5.17	1.39	1.46
1	A	514	GLU	CA-C	-5.17	1.46	1.52
2	B	438	ARG	CA-C	-5.17	1.45	1.52
2	B	448	SER	CA-C	-5.17	1.46	1.52
4	S	36	TYR	N-CA	-5.17	1.39	1.46
1	A	556	VAL	CA-C	-5.16	1.45	1.52
2	B	614	ILE	CA-C	-5.16	1.46	1.52
1	A	584	PHE	CA-C	-5.16	1.46	1.52
4	S	141	VAL	C-N	-5.16	1.27	1.33
1	A	74	LEU	CA-C	-5.16	1.46	1.52
2	B	38	TYR	N-CA	-5.15	1.39	1.46
1	A	375	VAL	CA-C	5.15	1.59	1.52
3	M	373	ALA	N-CA	-5.15	1.39	1.46
4	S	30	LEU	CA-C	-5.15	1.46	1.52
1	A	85	ALA	C-O	5.15	1.30	1.24
2	B	588	ILE	C-N	5.14	1.40	1.33
3	M	357	LYS	C-N	5.14	1.40	1.33
2	B	467	VAL	CA-C	-5.14	1.46	1.52
1	A	174	ARG	N-CA	5.14	1.53	1.46
1	A	325	SER	C-O	5.13	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	211	ALA	C-O	5.13	1.30	1.24
1	A	428	MET	CA-C	-5.12	1.46	1.52
4	S	10	LYS	C-N	-5.12	1.26	1.33
3	M	43	GLU	CA-C	-5.12	1.45	1.52
2	B	372	THR	CA-C	-5.12	1.46	1.52
1	A	583	GLU	CA-C	-5.12	1.45	1.52
2	B	478	LEU	C-N	-5.12	1.27	1.34
1	A	196	LEU	CA-C	-5.12	1.45	1.52
1	A	306	GLU	N-CA	5.12	1.52	1.46
1	A	402	ILE	C-N	-5.12	1.26	1.33
2	B	149	SER	CA-C	-5.11	1.46	1.52
2	B	529	VAL	CA-C	-5.11	1.46	1.52
2	B	596	LEU	CA-C	-5.11	1.46	1.52
2	B	451	MET	CA-C	-5.11	1.46	1.52
3	M	120	ARG	C-N	5.11	1.40	1.33
2	B	504	ALA	N-CA	-5.10	1.39	1.46
3	M	240	ILE	CA-C	-5.10	1.46	1.52
2	B	590	GLN	N-CA	-5.10	1.39	1.46
1	A	172	SER	C-N	-5.10	1.26	1.33
2	B	170	ARG	CA-C	5.10	1.59	1.52
4	S	87	PHE	CA-C	5.10	1.58	1.52
1	A	462	GLN	N-CA	-5.09	1.39	1.46
3	M	310	VAL	CA-C	5.09	1.59	1.52
2	B	233	TYR	CA-C	-5.09	1.46	1.52
1	A	152	THR	N-CA	-5.09	1.39	1.46
1	A	568	GLU	CA-C	5.09	1.59	1.52
2	B	63	MET	CA-C	-5.09	1.45	1.52
2	B	367	SER	N-CA	-5.08	1.40	1.46
1	A	253	ILE	CA-C	-5.08	1.46	1.52
1	A	493	ALA	CA-C	-5.08	1.45	1.52
1	A	94	VAL	C-N	-5.08	1.26	1.33
1	A	463	ASP	CA-C	5.08	1.59	1.52
1	A	121	LEU	CA-C	-5.08	1.46	1.52
1	A	593	THR	CA-C	-5.07	1.46	1.52
2	B	459	GLU	C-O	5.07	1.30	1.24
2	B	366	LEU	C-N	-5.07	1.27	1.33
2	B	232	ARG	CA-C	-5.07	1.46	1.52
1	A	552	ILE	N-CA	-5.07	1.40	1.46
2	B	277	CYS	C-N	5.07	1.39	1.33
3	M	384	GLY	C-N	-5.07	1.27	1.33
2	B	406	SER	CA-C	-5.06	1.45	1.52
2	B	59	VAL	CA-C	-5.06	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	223	CYS	N-CA	-5.06	1.40	1.46
1	A	509	PRO	N-CA	-5.06	1.41	1.47
2	B	493	LEU	C-N	5.06	1.40	1.33
2	B	368	ILE	N-CA	-5.06	1.40	1.46
1	A	447	PHE	N-CA	-5.05	1.40	1.46
1	A	532	LEU	N-CA	-5.05	1.40	1.46
3	M	247	ARG	CA-C	-5.05	1.46	1.52
1	A	122	MET	CA-C	-5.05	1.46	1.52
2	B	615	SER	C-N	5.05	1.40	1.33
1	A	312	ALA	CA-C	-5.05	1.46	1.52
3	M	383	HIS	N-CA	5.05	1.52	1.46
1	A	473	ILE	N-CA	-5.04	1.39	1.46
1	A	576	MET	CA-C	-5.04	1.45	1.52
2	B	278	PRO	CA-C	-5.04	1.46	1.52
3	M	333	LYS	CA-C	5.03	1.59	1.52
1	A	182	ILE	CA-C	-5.03	1.46	1.52
2	B	143	SER	N-CA	-5.03	1.39	1.46
1	A	158	LEU	N-CA	-5.03	1.40	1.46
1	A	488	ARG	N-CA	-5.02	1.40	1.46
3	M	304	VAL	CA-C	-5.02	1.46	1.52
2	B	191	GLU	N-CA	-5.02	1.39	1.46
2	B	154	ILE	N-CA	-5.01	1.40	1.46
4	S	27	LYS	C-N	5.01	1.40	1.34
2	B	357	GLU	CA-C	-5.00	1.46	1.52

All (2938) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	584	SER	N-CA-C	37.46	151.59	111.14
1	A	444	VAL	N-CA-C	-32.00	66.65	108.89
1	A	275	LEU	CA-C-N	-31.95	87.37	119.64
1	A	275	LEU	C-N-CA	-31.95	87.37	119.64
1	A	242	GLU	CA-C-N	31.61	178.60	121.70
1	A	242	GLU	C-N-CA	31.61	178.60	121.70
1	A	80	TYR	N-CA-C	-30.45	61.39	109.50
1	A	265	GLN	N-CA-C	-30.35	59.09	109.46
3	M	292	PRO	CA-C-N	30.09	157.45	119.84
3	M	292	PRO	C-N-CA	30.09	157.45	119.84
3	M	354	ASP	N-CA-C	-29.69	66.34	110.28
3	M	294	ASP	N-CA-C	-27.55	73.35	110.55
3	M	54	SER	N-CA-C	25.67	143.88	114.62
1	A	98	ASN	N-CA-C	-24.80	76.62	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	621	LEU	CA-C-N	-24.63	93.09	119.19
1	A	621	LEU	C-N-CA	-24.63	93.09	119.19
1	A	629	LEU	CA-C-N	-24.09	95.22	119.56
1	A	629	LEU	C-N-CA	-24.09	95.22	119.56
2	B	290	SER	CA-C-N	-24.09	85.37	121.02
2	B	290	SER	C-N-CA	-24.09	85.37	121.02
1	A	277	LYS	CA-C-N	23.93	164.78	121.70
1	A	277	LYS	C-N-CA	23.93	164.78	121.70
1	A	532	LEU	CA-C-N	-23.59	88.14	120.46
1	A	532	LEU	C-N-CA	-23.59	88.14	120.46
3	M	45	SER	CA-C-N	-22.77	78.06	121.54
3	M	45	SER	C-N-CA	-22.77	78.06	121.54
3	M	462	LYS	N-CA-C	-22.64	80.64	110.53
2	B	263	PRO	CA-C-N	22.40	158.20	122.36
2	B	263	PRO	C-N-CA	22.40	158.20	122.36
2	B	600	LYS	CA-C-N	-21.86	87.92	122.67
2	B	600	LYS	C-N-CA	-21.86	87.92	122.67
3	M	354	ASP	CA-C-N	21.73	163.04	121.54
3	M	354	ASP	C-N-CA	21.73	163.04	121.54
1	A	416	ILE	CA-C-N	-21.49	98.76	120.03
1	A	416	ILE	C-N-CA	-21.49	98.76	120.03
1	A	98	ASN	CA-C-N	21.32	160.08	121.70
1	A	98	ASN	C-N-CA	21.32	160.08	121.70
2	B	330	SER	N-CA-C	-21.27	79.19	110.24
1	A	464	ILE	CA-C-N	-20.43	89.90	120.75
1	A	464	ILE	C-N-CA	-20.43	89.90	120.75
1	A	229	ASN	CA-C-N	-20.28	98.87	119.56
1	A	229	ASN	C-N-CA	-20.28	98.87	119.56
1	A	151	SER	CA-C-N	-20.27	91.06	122.49
1	A	151	SER	C-N-CA	-20.27	91.06	122.49
2	B	404	ASN	CA-C-N	-20.00	93.48	120.28
2	B	404	ASN	C-N-CA	-20.00	93.48	120.28
2	B	576	GLN	N-CA-C	-19.85	84.92	110.53
1	A	534	LYS	CA-C-N	19.70	157.16	121.70
1	A	534	LYS	C-N-CA	19.70	157.16	121.70
1	A	534	LYS	N-CA-C	-19.63	80.85	110.10
1	A	304	LEU	CA-C-N	-19.54	84.22	121.54
1	A	304	LEU	C-N-CA	-19.54	84.22	121.54
2	B	570	GLY	N-CA-C	-19.08	88.77	115.30
3	M	80	THR	N-CA-C	18.76	135.26	112.38
1	A	154	ILE	N-CA-C	18.65	134.25	112.80
1	A	469	LEU	CA-C-N	-18.64	96.86	120.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	469	LEU	C-N-CA	-18.64	96.86	120.34
1	A	418	ILE	CA-C-N	-18.54	88.60	121.97
1	A	418	ILE	C-N-CA	-18.54	88.60	121.97
2	B	78	ASP	CA-C-N	-18.54	88.60	121.97
2	B	78	ASP	C-N-CA	-18.54	88.60	121.97
1	A	260	PHE	O-C-N	-18.40	102.61	122.12
1	A	80	TYR	O-C-N	-18.34	100.68	123.24
2	B	310	ILE	CA-C-N	-18.25	94.38	120.29
2	B	310	ILE	C-N-CA	-18.25	94.38	120.29
4	S	167	ILE	N-CA-C	18.02	130.68	111.58
2	B	577	ASN	CA-C-N	-17.82	102.02	120.38
2	B	577	ASN	C-N-CA	-17.82	102.02	120.38
1	A	300	LYS	N-CA-C	17.72	130.28	111.14
3	M	46	SER	CA-C-N	-17.70	94.37	122.87
3	M	46	SER	C-N-CA	-17.70	94.37	122.87
1	A	586	GLU	CA-C-N	-17.55	95.37	120.29
1	A	586	GLU	C-N-CA	-17.55	95.37	120.29
1	A	242	GLU	N-CA-C	-17.53	85.53	110.24
2	B	571	SER	N-CA-C	-17.46	83.77	109.96
1	A	233	PHE	CA-C-N	-17.44	92.31	121.09
1	A	233	PHE	C-N-CA	-17.44	92.31	121.09
1	A	534	LYS	CA-C-O	-17.43	101.04	120.92
2	B	569	THR	N-CA-C	17.18	134.84	109.59
1	A	84	MET	CA-C-N	-17.17	95.92	120.29
1	A	84	MET	C-N-CA	-17.17	95.92	120.29
1	A	174	ARG	CA-C-N	17.14	137.05	119.56
1	A	174	ARG	C-N-CA	17.14	137.05	119.56
1	A	442	SER	N-CA-C	-17.10	92.04	111.71
3	M	252	ASP	N-CA-C	-17.01	85.78	108.24
2	B	461	HIS	CA-C-N	-16.91	98.62	122.46
2	B	461	HIS	C-N-CA	-16.91	98.62	122.46
1	A	64	LEU	O-C-N	-16.82	102.54	122.22
1	A	443	SER	N-CA-C	16.66	133.01	113.02
1	A	307	ASP	N-CA-C	-16.27	92.95	111.82
1	A	323	CYS	CA-C-N	16.16	150.78	121.70
1	A	323	CYS	C-N-CA	16.16	150.78	121.70
1	A	380	ASP	N-CA-C	-16.10	84.27	109.23
3	M	421	GLY	CA-C-N	-16.08	103.14	119.87
3	M	421	GLY	C-N-CA	-16.08	103.14	119.87
2	B	387	ASP	CA-C-N	16.01	135.58	120.21
2	B	387	ASP	C-N-CA	16.01	135.58	120.21
3	M	457	GLY	N-CA-C	-15.96	92.33	115.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	204	VAL	O-C-N	-15.93	105.78	121.87
4	S	109	LEU	O-C-N	-15.92	105.24	122.12
1	A	302	ASN	N-CA-C	-15.87	76.99	110.80
1	A	327	ASP	CA-C-N	15.84	135.35	119.82
1	A	327	ASP	C-N-CA	15.84	135.35	119.82
1	A	394	GLN	CA-C-O	-15.69	103.92	120.55
3	M	292	PRO	N-CA-C	-15.68	91.57	110.70
3	M	458	LEU	O-C-N	15.57	140.89	122.68
1	A	465	SER	N-CA-C	15.46	131.38	110.35
1	A	461	CYS	CA-C-O	15.44	137.83	119.61
1	A	240	LEU	CA-C-N	-15.43	99.64	120.63
1	A	240	LEU	C-N-CA	-15.43	99.64	120.63
2	B	212	VAL	CA-C-O	15.42	140.05	120.78
1	A	138	ASN	N-CA-C	-15.41	89.26	110.68
2	B	559	ASP	CA-C-O	-15.38	101.62	119.15
1	A	519	LEU	CA-C-N	-15.36	100.72	120.22
1	A	519	LEU	C-N-CA	-15.36	100.72	120.22
1	A	100	LEU	CA-C-N	-15.33	99.59	120.44
1	A	100	LEU	C-N-CA	-15.33	99.59	120.44
1	A	545	HIS	CA-C-N	-15.29	99.79	120.28
1	A	545	HIS	C-N-CA	-15.29	99.79	120.28
1	A	281	LEU	CA-C-O	15.25	137.79	119.79
3	M	284	SER	CA-C-N	-15.19	102.57	119.28
3	M	284	SER	C-N-CA	-15.19	102.57	119.28
1	A	103	LYS	CA-C-O	15.09	137.10	120.20
1	A	346	THR	CA-C-N	-15.08	97.39	120.31
1	A	346	THR	C-N-CA	-15.08	97.39	120.31
1	A	569	ASP	CA-C-N	-14.99	96.61	120.60
1	A	569	ASP	C-N-CA	-14.99	96.61	120.60
2	B	375	LEU	O-C-N	-14.99	105.86	120.70
2	B	109	ALA	CA-C-N	-14.98	100.21	120.28
2	B	109	ALA	C-N-CA	-14.98	100.21	120.28
1	A	215	VAL	CA-C-O	14.96	137.65	121.05
4	S	46	PHE	CA-C-O	-14.94	102.64	121.17
1	A	88	ASN	CA-C-N	-14.93	99.92	120.38
1	A	88	ASN	C-N-CA	-14.93	99.92	120.38
1	A	465	SER	CA-C-N	14.87	144.21	121.76
1	A	465	SER	C-N-CA	14.87	144.21	121.76
2	B	535	GLN	CA-C-N	-14.85	98.48	122.08
2	B	535	GLN	C-N-CA	-14.85	98.48	122.08
4	S	164	ASP	CA-C-N	-14.84	95.94	120.72
4	S	164	ASP	C-N-CA	-14.84	95.94	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	S	109	LEU	CA-C-O	14.84	136.28	120.55
4	S	46	PHE	N-CA-C	-14.78	89.05	111.81
1	A	432	ILE	CA-C-O	-14.77	106.05	121.41
1	A	529	GLY	N-CA-C	-14.77	95.08	113.99
1	A	569	ASP	N-CA-C	-14.76	85.69	108.42
2	B	82	TYR	CA-C-N	-14.74	95.37	120.58
2	B	82	TYR	C-N-CA	-14.74	95.37	120.58
2	B	418	TYR	CA-C-N	-14.73	102.29	120.70
2	B	418	TYR	C-N-CA	-14.73	102.29	120.70
1	A	536	MET	O-C-N	-14.71	103.02	122.59
1	A	136	GLY	CA-C-N	-14.64	93.02	121.58
1	A	136	GLY	C-N-CA	-14.64	93.02	121.58
1	A	469	LEU	CA-C-O	14.64	136.07	120.55
1	A	212	ILE	CA-C-N	-14.63	98.06	120.31
1	A	212	ILE	C-N-CA	-14.63	98.06	120.31
1	A	413	SER	N-CA-C	-14.63	88.01	109.96
2	B	277	CYS	CA-C-N	-14.62	104.65	120.14
2	B	277	CYS	C-N-CA	-14.62	104.65	120.14
3	M	421	GLY	O-C-N	-14.61	107.16	121.77
1	A	88	ASN	CA-C-O	14.61	135.91	120.42
2	B	288	TYR	CA-C-N	14.59	138.07	119.84
2	B	288	TYR	C-N-CA	14.59	138.07	119.84
4	S	125	TRP	CA-C-O	-14.56	105.06	121.07
1	A	264	SER	CA-C-N	-14.47	101.79	122.19
1	A	264	SER	C-N-CA	-14.47	101.79	122.19
1	A	320	HIS	O-C-N	-14.40	106.86	122.12
1	A	381	GLU	CA-C-N	-14.39	98.44	120.31
1	A	381	GLU	C-N-CA	-14.39	98.44	120.31
1	A	418	ILE	N-CA-C	14.36	129.18	107.78
1	A	504	ILE	CA-C-O	14.34	135.96	120.47
2	B	240	LEU	N-CA-C	14.29	132.55	109.96
2	B	22	ALA	N-CA-C	-14.29	95.70	111.14
3	M	91	THR	CA-C-O	-14.28	102.94	119.79
4	S	99	LEU	CA-C-O	-14.27	105.29	120.42
3	M	373	ALA	CB-CA-C	14.26	133.29	110.19
1	A	301	GLY	N-CA-C	-14.24	95.64	112.73
2	B	521	ILE	CA-C-N	-14.18	104.03	123.03
2	B	521	ILE	C-N-CA	-14.18	104.03	123.03
2	B	108	PHE	CA-C-O	14.15	136.77	120.92
3	M	74	TYR	CA-C-O	14.12	137.07	121.11
2	B	289	PRO	CA-C-N	-14.10	96.84	122.09
2	B	289	PRO	C-N-CA	-14.10	96.84	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	366	LEU	CA-C-N	-14.09	101.08	120.38
2	B	366	LEU	C-N-CA	-14.09	101.08	120.38
1	A	448	GLU	N-CA-C	-14.07	89.82	110.23
4	S	43	ASN	O-C-N	-14.06	105.51	122.81
4	S	163	THR	CA-C-N	14.05	148.37	121.54
4	S	163	THR	C-N-CA	14.05	148.37	121.54
2	B	102	HIS	O-C-N	-13.97	107.68	122.07
1	A	507	GLN	CA-C-N	-13.96	105.33	123.34
1	A	507	GLN	C-N-CA	-13.96	105.33	123.34
3	M	57	GLY	CA-C-N	13.95	145.66	121.80
3	M	57	GLY	C-N-CA	13.95	145.66	121.80
4	S	80	TYR	CA-C-O	13.95	135.40	120.33
3	M	268	GLY	CA-C-N	-13.90	97.62	123.34
3	M	268	GLY	C-N-CA	-13.90	97.62	123.34
1	A	547	VAL	O-C-N	13.88	135.51	121.91
2	B	223	LEU	CA-C-N	-13.82	100.39	120.28
2	B	223	LEU	C-N-CA	-13.82	100.39	120.28
2	B	388	PRO	CA-C-N	13.80	137.94	120.56
2	B	388	PRO	C-N-CA	13.80	137.94	120.56
2	B	314	ASN	O-C-N	13.76	132.38	121.23
1	A	265	GLN	CA-C-O	-13.72	105.04	120.54
2	B	325	LEU	CA-C-O	13.68	135.70	119.97
1	A	492	ILE	CA-C-O	-13.65	106.70	121.17
2	B	187	ASP	CA-C-N	-13.64	98.27	122.42
2	B	187	ASP	C-N-CA	-13.64	98.27	122.42
1	A	298	ILE	CA-C-O	13.64	135.14	120.95
1	A	508	LEU	N-CA-C	13.60	133.72	108.97
2	B	478	LEU	CA-C-O	13.60	135.10	120.82
1	A	162	ILE	CA-C-O	-13.58	107.15	121.27
2	B	204	ASP	O-C-N	13.55	133.10	121.31
4	S	139	GLY	CA-C-N	-13.53	102.64	122.94
4	S	139	GLY	C-N-CA	-13.53	102.64	122.94
2	B	333	GLN	N-CA-C	-13.52	94.95	112.93
1	A	536	MET	CA-C-N	-13.37	93.16	121.64
1	A	536	MET	C-N-CA	-13.37	93.16	121.64
1	A	105	VAL	CA-C-N	13.36	135.09	119.99
1	A	105	VAL	C-N-CA	13.36	135.09	119.99
1	A	607	LEU	CA-C-O	-13.32	107.18	120.90
1	A	631	SER	O-C-N	13.29	135.76	122.07
1	A	569	ASP	CA-C-O	-13.29	106.48	121.10
2	B	515	PHE	CA-C-N	-13.29	105.45	119.94
2	B	515	PHE	C-N-CA	-13.29	105.45	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	431	VAL	O-C-N	13.27	135.70	121.90
2	B	366	LEU	O-C-N	-13.26	107.77	122.09
2	B	111	ASN	N-CA-C	13.26	127.99	111.69
1	A	533	ILE	CA-C-O	-13.25	107.17	120.95
1	A	596	VAL	O-C-N	13.23	134.70	121.87
2	B	102	HIS	CA-C-O	13.22	134.70	120.82
1	A	450	TYR	O-C-N	13.22	136.13	122.12
3	M	83	SER	CA-C-N	13.20	146.75	121.54
3	M	83	SER	C-N-CA	13.20	146.75	121.54
2	B	457	HIS	CA-C-O	13.18	134.39	120.42
1	A	432	ILE	O-C-N	13.18	136.19	121.96
2	B	273	SER	N-CA-C	13.16	132.62	109.58
1	A	120	ILE	O-C-N	13.16	136.02	121.94
1	A	110	ALA	CA-C-N	-13.13	98.79	120.72
1	A	110	ALA	C-N-CA	-13.13	98.79	120.72
1	A	454	ILE	CA-C-O	-13.13	107.25	121.17
1	A	196	LEU	CA-C-N	-13.11	99.64	120.88
1	A	196	LEU	C-N-CA	-13.11	99.64	120.88
3	M	293	PRO	CA-N-CD	-13.11	93.65	112.00
3	M	477	GLY	CA-C-N	-13.09	99.62	123.05
3	M	477	GLY	C-N-CA	-13.09	99.62	123.05
1	A	388	VAL	CA-C-O	-13.05	106.57	121.05
1	A	225	LEU	CA-C-O	-13.04	105.36	120.10
4	S	54	PRO	N-CA-C	-13.04	94.79	110.70
1	A	415	ARG	N-CA-C	-12.99	89.10	109.76
2	B	205	PRO	CA-C-N	-12.98	98.89	122.38
2	B	205	PRO	C-N-CA	-12.98	98.89	122.38
1	A	405	THR	CA-C-N	-12.94	96.04	121.41
1	A	405	THR	C-N-CA	-12.94	96.04	121.41
2	B	306	LEU	CA-C-O	-12.94	106.65	120.63
1	A	86	TRP	CA-C-N	-12.93	99.55	121.92
1	A	86	TRP	C-N-CA	-12.93	99.55	121.92
2	B	146	LYS	CA-C-N	-12.93	100.67	121.87
2	B	146	LYS	C-N-CA	-12.93	100.67	121.87
1	A	365	VAL	CA-C-N	-12.92	98.92	121.66
1	A	365	VAL	C-N-CA	-12.92	98.92	121.66
2	B	505	ASP	CA-C-N	-12.92	98.72	120.68
2	B	505	ASP	C-N-CA	-12.92	98.72	120.68
1	A	84	MET	O-C-N	-12.90	106.86	122.34
1	A	518	CYS	CA-C-O	-12.90	107.45	121.00
1	A	71	VAL	CA-C-O	-12.88	107.55	120.95
1	A	155	THR	CA-C-N	12.88	134.42	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	155	THR	C-N-CA	12.88	134.42	119.47
1	A	220	SER	O-C-N	12.88	135.49	122.09
2	B	472	VAL	O-C-N	-12.88	109.38	121.87
1	A	511	VAL	O-C-N	12.87	134.36	121.87
2	B	497	LEU	CA-C-N	-12.86	99.25	120.72
2	B	497	LEU	C-N-CA	-12.86	99.25	120.72
1	A	271	ARG	CA-C-O	-12.84	107.34	120.82
1	A	504	ILE	O-C-N	-12.84	107.30	121.80
2	B	230	PHE	CA-C-N	-12.82	97.05	121.54
2	B	230	PHE	C-N-CA	-12.82	97.05	121.54
3	M	97	ASP	O-C-N	12.81	135.92	122.09
2	B	404	ASN	O-C-N	-12.80	108.66	123.25
1	A	504	ILE	CA-C-N	-12.79	98.76	121.14
1	A	504	ILE	C-N-CA	-12.79	98.76	121.14
1	A	158	LEU	O-C-N	12.79	135.24	122.07
2	B	220	ALA	N-CA-C	-12.79	90.40	111.37
1	A	629	LEU	CA-C-O	12.77	130.38	118.63
1	A	434	SER	O-C-N	12.76	135.65	122.12
1	A	158	LEU	CA-C-O	-12.75	107.43	120.82
1	A	508	LEU	O-C-N	12.75	133.02	121.42
1	A	631	SER	CA-C-O	-12.74	107.44	120.82
1	A	600	SER	CA-C-O	-12.72	107.79	120.90
2	B	328	LEU	CA-C-N	-12.72	103.14	120.95
2	B	328	LEU	C-N-CA	-12.72	103.14	120.95
1	A	350	SER	O-C-N	-12.71	108.64	122.12
2	B	574	ASN	CA-C-N	-12.66	100.79	122.56
2	B	574	ASN	C-N-CA	-12.66	100.79	122.56
2	B	115	LEU	O-C-N	12.65	135.53	122.12
1	A	529	GLY	CA-C-O	-12.63	104.74	119.65
2	B	162	VAL	CA-C-N	-12.62	96.93	122.55
2	B	162	VAL	C-N-CA	-12.62	96.93	122.55
1	A	244	LEU	O-C-N	-12.60	105.95	122.33
3	M	232	HIS	CA-C-O	12.60	136.15	121.28
1	A	192	TYR	CA-C-O	-12.59	102.91	120.16
2	B	271	GLU	N-CA-C	12.59	128.18	108.67
1	A	260	PHE	CA-C-N	-12.55	103.46	120.28
1	A	260	PHE	C-N-CA	-12.55	103.46	120.28
4	S	143	GLU	N-CA-C	-12.53	85.93	108.48
1	A	453	VAL	O-C-N	12.51	134.01	121.87
2	B	267	ASP	CA-C-O	12.51	133.93	120.92
1	A	633	PHE	CA-C-O	-12.50	107.30	120.55
3	M	367	ALA	CA-C-N	12.50	142.97	121.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	367	ALA	C-N-CA	12.50	142.97	121.35
2	B	575	ASN	N-CA-C	-12.49	98.03	113.02
2	B	99	ARG	CA-C-O	-12.48	108.04	120.90
1	A	325	SER	N-CA-C	-12.47	87.87	108.32
1	A	162	ILE	O-C-N	12.43	134.37	121.94
3	M	368	ASP	CA-C-O	-12.40	107.35	119.51
4	S	83	LEU	CA-C-O	12.39	135.16	121.16
1	A	107	TYR	CA-C-O	-12.38	107.43	120.55
4	S	149	ILE	O-C-N	12.36	134.39	121.90
1	A	155	THR	CA-C-O	-12.34	107.25	120.70
2	B	408	VAL	O-C-N	12.34	134.34	121.87
3	M	394	GLN	CA-C-O	12.34	134.02	120.32
1	A	135	ASP	CA-C-N	-12.33	97.25	121.41
1	A	135	ASP	C-N-CA	-12.33	97.25	121.41
2	B	296	ASP	CA-C-O	-12.32	103.28	120.16
1	A	70	ALA	O-C-N	12.32	135.18	122.12
4	S	150	VAL	CA-C-O	-12.28	107.42	121.05
4	S	96	LEU	CA-C-O	-12.27	108.06	120.70
2	B	460	SER	N-CA-C	12.27	128.97	112.90
1	A	586	GLU	O-C-N	-12.27	107.18	122.27
2	B	469	ASP	CA-C-O	-12.27	107.55	120.55
2	B	97	VAL	O-C-N	12.22	133.88	121.91
2	B	497	LEU	O-C-N	-12.20	105.62	122.46
1	A	103	LYS	O-C-N	-12.18	108.31	122.20
1	A	403	LEU	CA-C-N	-12.16	98.30	121.54
1	A	403	LEU	C-N-CA	-12.16	98.30	121.54
2	B	389	ILE	O-C-N	-12.16	109.99	121.91
1	A	491	THR	CA-C-O	-12.16	108.18	120.70
1	A	217	ALA	CA-C-O	-12.15	108.06	120.82
1	A	573	GLU	O-C-N	-12.15	109.55	122.07
2	B	568	VAL	CA-C-N	12.15	138.74	121.24
2	B	568	VAL	C-N-CA	12.15	138.74	121.24
1	A	514	GLU	CA-C-O	-12.15	108.19	120.70
2	B	508	ARG	CA-C-O	12.15	133.83	120.10
3	M	15	ILE	N-CA-C	-12.12	102.05	111.62
1	A	140	VAL	CA-C-O	12.11	134.50	121.05
1	A	196	LEU	CA-C-O	12.09	134.12	119.49
1	A	582	ILE	CA-C-O	-12.09	108.03	120.85
1	A	296	ASN	CA-C-O	-12.09	107.57	120.63
1	A	305	GLU	N-CA-C	12.07	136.51	110.80
1	A	566	PHE	N-CA-C	12.07	130.02	113.37
2	B	174	ALA	CA-C-N	-12.06	104.76	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	174	ALA	C-N-CA	-12.06	104.76	120.44
2	B	147	MET	O-C-N	-12.05	109.24	123.10
1	A	433	ILE	CA-C-O	-12.05	108.74	121.27
1	A	295	VAL	CA-C-O	-12.03	107.22	121.18
2	B	489	ILE	O-C-N	12.03	133.54	121.87
2	B	560	ILE	CA-C-N	-12.01	98.59	121.54
2	B	560	ILE	C-N-CA	-12.01	98.59	121.54
1	A	94	VAL	O-C-N	-12.01	109.41	121.90
4	S	98	ILE	CA-C-O	-12.01	107.86	120.71
1	A	603	VAL	CA-C-O	-11.99	107.88	120.71
2	B	318	ILE	CA-C-O	-11.98	108.15	120.85
1	A	298	ILE	O-C-N	-11.98	110.25	121.87
1	A	105	VAL	O-C-N	11.97	134.16	121.83
1	A	64	LEU	CA-C-O	11.96	133.62	120.10
1	A	143	VAL	O-C-N	11.96	133.63	121.91
2	B	145	MET	CA-C-N	-11.95	105.56	122.41
2	B	145	MET	C-N-CA	-11.95	105.56	122.41
1	A	333	ILE	CA-C-O	-11.95	108.52	120.95
1	A	621	LEU	CA-C-O	11.95	129.57	117.98
1	A	297	CYS	CA-C-O	11.94	133.08	120.42
1	A	486	SER	N-CA-C	-11.94	94.92	110.33
4	S	158	LYS	O-C-N	11.94	135.76	122.15
1	A	91	ILE	O-C-N	11.93	133.44	121.87
3	M	426	LYS	CA-C-N	11.93	139.82	123.00
3	M	426	LYS	C-N-CA	11.93	139.82	123.00
2	B	341	GLU	CA-C-O	-11.92	108.15	120.90
3	M	368	ASP	O-C-N	11.90	131.67	121.31
4	S	127	THR	O-C-N	11.89	134.32	122.07
1	A	496	ILE	O-C-N	11.88	133.56	121.91
1	A	188	VAL	CA-C-O	-11.86	108.60	121.29
1	A	242	GLU	O-C-N	-11.86	108.50	122.97
1	A	582	ILE	O-C-N	11.86	134.04	121.83
3	M	458	LEU	N-CA-C	-11.85	93.42	110.59
2	B	302	PHE	CA-C-O	-11.84	108.39	120.82
2	B	120	ILE	CA-C-O	-11.83	108.05	120.71
2	B	416	LYS	O-C-N	11.83	134.66	122.12
2	B	472	VAL	CA-C-O	11.83	133.25	120.95
1	A	572	PHE	CA-C-N	11.83	135.82	120.44
1	A	572	PHE	C-N-CA	11.83	135.82	120.44
2	B	82	TYR	N-CA-C	-11.82	98.83	113.01
2	B	605	PHE	CA-C-O	-11.82	108.41	120.82
1	A	394	GLN	O-C-N	11.81	134.64	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	554	LYS	O-C-N	11.80	134.30	122.03
1	A	91	ILE	CA-C-O	-11.80	108.68	120.95
2	B	363	ILE	CA-C-O	-11.79	108.79	121.05
3	M	54	SER	CA-C-N	11.79	139.60	122.63
3	M	54	SER	C-N-CA	11.79	139.60	122.63
2	B	303	LEU	CA-C-O	-11.79	107.93	120.42
1	A	391	LEU	CA-C-N	-11.78	100.66	120.68
1	A	391	LEU	C-N-CA	-11.78	100.66	120.68
1	A	338	PHE	O-C-N	11.76	134.73	122.03
4	S	139	GLY	N-CA-C	-11.76	97.96	115.72
2	B	154	ILE	CA-C-O	-11.76	106.09	120.78
1	A	606	PHE	O-C-N	11.75	134.57	122.12
2	B	531	ARG	CA-C-O	-11.73	108.61	120.70
1	A	551	LEU	CA-C-O	-11.73	108.35	120.90
2	B	577	ASN	N-CA-C	11.73	136.19	108.40
1	A	233	PHE	CA-C-O	11.72	131.95	119.05
1	A	388	VAL	O-C-N	11.72	134.09	121.90
2	B	105	LEU	CA-C-N	-11.72	104.58	120.28
2	B	105	LEU	C-N-CA	-11.72	104.58	120.28
1	A	152	THR	CA-C-N	-11.70	107.28	122.37
1	A	152	THR	C-N-CA	-11.70	107.28	122.37
2	B	138	ALA	CA-C-O	-11.70	108.38	120.90
1	A	313	MET	CA-C-O	-11.69	108.72	121.00
2	B	444	THR	O-C-N	-11.67	109.48	122.09
4	S	4	ALA	CA-C-O	11.67	133.73	120.89
2	B	362	ALA	O-C-N	11.67	134.49	122.12
1	A	328	PRO	CA-C-N	-11.66	100.64	120.58
1	A	328	PRO	C-N-CA	-11.66	100.64	120.58
2	B	237	ILE	O-C-N	-11.66	110.46	121.89
1	A	237	SER	CA-C-O	-11.65	107.61	118.33
1	A	316	LEU	CA-C-O	-11.64	108.71	120.70
2	B	204	ASP	CA-C-O	-11.64	108.10	119.51
3	M	407	THR	N-CA-C	-11.62	91.12	109.72
3	M	72	LEU	CA-C-N	11.62	141.24	123.47
3	M	72	LEU	C-N-CA	11.62	141.24	123.47
1	A	365	VAL	O-C-N	-11.60	110.16	121.87
2	B	573	GLU	CA-C-N	-11.59	104.52	122.49
2	B	573	GLU	C-N-CA	-11.59	104.52	122.49
1	A	108	LEU	CA-C-O	-11.58	108.14	120.42
2	B	299	LEU	O-C-N	11.58	135.36	122.15
2	B	439	CYS	CA-C-O	-11.58	108.77	120.70
4	S	85	PHE	CA-C-O	11.58	133.17	120.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	S	96	LEU	O-C-N	11.57	134.59	122.09
4	S	158	LYS	CA-C-O	-11.56	108.17	120.42
1	A	569	ASP	O-C-N	-11.56	112.02	123.46
1	A	539	ASN	CA-C-N	-11.55	104.01	120.42
1	A	539	ASN	C-N-CA	-11.55	104.01	120.42
2	B	314	ASN	CA-C-O	-11.55	111.78	119.29
1	A	539	ASN	O-C-N	-11.54	108.49	122.34
2	B	595	VAL	CA-C-O	-11.54	108.94	121.17
1	A	274	LEU	CA-C-N	-11.54	106.33	120.06
1	A	274	LEU	C-N-CA	-11.54	106.33	120.06
1	A	495	ILE	O-C-N	11.54	133.21	121.91
3	M	68	VAL	N-CA-C	11.54	133.34	109.34
2	B	510	GLY	CA-C-O	-11.53	109.18	121.05
1	A	454	ILE	O-C-N	11.51	133.19	121.91
2	B	229	HIS	CA-C-N	11.51	137.80	120.31
2	B	229	HIS	C-N-CA	11.51	137.80	120.31
1	A	145	ILE	CA-C-O	-11.49	108.30	121.05
1	A	311	THR	O-C-N	11.48	134.49	122.09
1	A	177	ILE	CA-C-O	-11.47	108.44	120.71
1	A	271	ARG	O-C-N	11.47	133.88	122.07
2	B	442	LEU	CA-C-N	-11.46	103.07	122.33
2	B	442	LEU	C-N-CA	-11.46	103.07	122.33
2	B	589	SER	CA-C-O	-11.46	109.09	120.90
2	B	319	LEU	CA-C-O	-11.46	109.10	120.90
1	A	492	ILE	O-C-N	11.46	133.14	121.91
2	B	526	CYS	O-C-N	11.45	134.48	121.32
1	A	545	HIS	O-C-N	-11.44	110.00	122.12
4	S	100	ASP	O-C-N	11.41	136.31	122.27
1	A	216	SER	CA-C-O	-11.40	108.85	120.82
1	A	263	LEU	CA-C-N	-11.40	103.87	120.28
1	A	263	LEU	C-N-CA	-11.40	103.87	120.28
1	A	496	ILE	CA-C-O	-11.39	109.09	121.17
2	B	211	ALA	O-C-N	11.38	137.18	122.39
1	A	270	LEU	O-C-N	11.38	135.93	122.17
1	A	319	LEU	O-C-N	-11.37	107.45	122.23
1	A	513	ARG	CA-C-O	-11.36	108.50	120.55
1	A	552	ILE	O-C-N	11.36	132.89	121.87
2	B	478	LEU	O-C-N	-11.34	110.39	122.07
2	B	554	LYS	CA-C-O	-11.34	109.10	121.00
3	M	261	ASN	CA-C-N	-11.34	107.00	122.30
3	M	261	ASN	C-N-CA	-11.34	107.00	122.30
4	S	153	VAL	O-C-N	11.34	132.87	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	339	PHE	O-C-N	11.33	136.21	122.27
2	B	489	ILE	CA-C-O	-11.33	109.16	120.95
2	B	531	ARG	O-C-N	11.33	134.33	122.09
2	B	132	SER	CA-C-N	-11.33	101.42	120.68
2	B	132	SER	C-N-CA	-11.33	101.42	120.68
1	A	341	ILE	CA-C-O	-11.33	109.17	120.95
2	B	363	ILE	O-C-N	11.32	132.99	121.89
4	S	74	GLN	O-C-N	-11.32	109.79	123.04
1	A	105	VAL	CA-C-O	-11.32	108.85	120.85
1	A	384	LEU	O-C-N	11.32	134.31	122.09
1	A	188	VAL	O-C-N	11.31	133.59	121.94
1	A	635	ALA	CA-C-O	-11.31	108.42	120.63
2	B	123	LEU	CA-C-O	-11.30	106.27	119.61
2	B	366	LEU	CA-C-O	11.29	132.33	120.70
1	A	632	PHE	O-C-N	11.28	133.69	122.07
2	B	375	LEU	CA-C-O	11.28	128.70	118.33
1	A	637	GLU	CA-C-N	-11.25	101.44	121.70
1	A	637	GLU	C-N-CA	-11.25	101.44	121.70
2	B	444	THR	CA-C-O	11.25	132.29	120.70
1	A	257	LEU	CA-C-O	-11.25	107.75	120.24
1	A	429	VAL	O-C-N	11.24	132.77	121.87
1	A	221	VAL	CA-C-O	-11.23	109.27	121.29
4	S	53	THR	CA-C-N	-11.23	108.81	120.38
4	S	53	THR	C-N-CA	-11.23	108.81	120.38
2	B	451	MET	CA-C-O	-11.23	109.03	120.82
2	B	112	ASP	CA-C-O	-11.23	109.26	119.59
3	M	284	SER	O-C-N	-11.23	108.41	121.32
2	B	172	GLU	O-C-N	-11.23	110.22	122.12
1	A	387	ILE	CA-C-O	-11.22	108.36	120.47
1	A	462	GLN	O-C-N	-11.21	107.41	122.43
1	A	163	ALA	CA-C-N	-11.20	99.00	121.18
1	A	163	ALA	C-N-CA	-11.20	99.00	121.18
2	B	79	VAL	CA-C-O	-11.19	106.79	120.78
2	B	325	LEU	CA-C-N	-11.18	101.99	121.66
2	B	325	LEU	C-N-CA	-11.18	101.99	121.66
1	A	80	TYR	CA-C-N	11.16	141.79	121.70
1	A	80	TYR	C-N-CA	11.16	141.79	121.70
2	B	158	VAL	CA-C-O	-11.15	106.85	120.78
2	B	486	HIS	O-C-N	11.14	134.85	122.15
1	A	635	ALA	O-C-N	11.14	133.93	122.12
2	B	212	VAL	O-C-N	-11.14	108.65	122.57
1	A	335	CYS	CA-C-O	-11.12	109.01	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	455	ILE	O-C-N	11.11	132.80	121.91
2	B	344	VAL	O-C-N	11.11	133.09	121.87
2	B	511	ILE	CA-C-O	11.11	132.75	120.64
3	M	16	PHE	CA-C-O	11.11	134.10	121.11
4	S	106	VAL	CA-C-O	-11.11	106.49	121.15
2	B	237	ILE	CA-C-N	-11.09	102.86	120.60
2	B	237	ILE	C-N-CA	-11.09	102.86	120.60
1	A	338	PHE	CA-C-O	-11.09	109.48	120.90
2	B	430	ILE	CA-C-O	-11.08	108.75	121.05
2	B	548	ILE	O-C-N	11.08	133.06	121.87
4	S	98	ILE	O-C-N	11.08	136.47	121.84
1	A	516	ILE	CA-C-O	-11.07	109.11	120.85
3	M	420	THR	CA-C-N	-11.07	104.49	121.87
3	M	420	THR	C-N-CA	-11.07	104.49	121.87
2	B	584	SER	O-C-N	-11.06	110.14	122.09
1	A	624	LEU	CA-C-O	-11.06	108.83	120.55
1	A	341	ILE	O-C-N	11.05	132.58	121.87
1	A	254	ILE	CA-C-O	-11.04	109.46	121.17
1	A	304	LEU	O-C-N	-11.04	110.42	122.12
1	A	611	LEU	CA-C-O	-11.04	108.72	120.42
1	A	367	ILE	O-C-N	11.04	136.25	121.90
2	B	108	PHE	O-C-N	-11.04	109.42	122.11
2	B	147	MET	CA-C-N	-11.03	102.34	122.09
2	B	147	MET	C-N-CA	-11.03	102.34	122.09
1	A	281	LEU	CA-C-N	-11.03	101.93	120.68
1	A	281	LEU	C-N-CA	-11.03	101.93	120.68
2	B	592	TYR	CA-C-O	-11.03	109.34	120.70
4	S	150	VAL	O-C-N	11.02	133.36	121.90
2	B	595	VAL	O-C-N	11.02	132.71	121.91
1	A	474	GLY	O-C-N	11.02	132.88	122.19
2	B	174	ALA	CA-C-O	11.02	132.10	120.42
3	M	425	THR	CA-C-N	11.02	139.19	122.23
3	M	425	THR	C-N-CA	11.02	139.19	122.23
2	B	607	ILE	O-C-N	11.01	133.35	121.90
1	A	398	GLU	N-CA-C	10.99	125.24	112.93
4	S	54	PRO	CA-N-CD	-10.99	96.61	112.00
2	B	615	SER	CA-C-O	-10.99	109.38	120.70
1	A	275	LEU	O-C-N	-10.97	110.17	120.92
2	B	360	LEU	CA-C-O	-10.97	108.78	120.63
1	A	242	GLU	CA-C-O	-10.97	109.09	121.15
1	A	312	ALA	CA-C-O	-10.97	108.92	120.55
1	A	252	ILE	O-C-N	10.96	132.94	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	279	LEU	CA-C-N	-10.96	104.50	120.28
1	A	279	LEU	C-N-CA	-10.96	104.50	120.28
2	B	361	GLN	O-C-N	10.96	133.36	122.07
2	B	490	ILE	CA-C-O	-10.96	107.92	120.96
1	A	434	SER	CA-C-O	-10.96	108.94	120.55
2	B	102	HIS	CA-C-N	-10.95	105.76	120.54
2	B	102	HIS	C-N-CA	-10.95	105.76	120.54
1	A	253	ILE	CA-C-O	-10.94	109.25	120.85
1	A	604	LEU	CA-C-O	-10.94	108.82	120.63
1	A	390	THR	CA-C-O	-10.94	108.83	120.42
1	A	457	LEU	O-C-N	10.94	133.71	122.12
2	B	474	VAL	O-C-N	10.94	133.20	121.94
2	B	614	ILE	O-C-N	10.93	132.60	121.89
1	A	461	CYS	CA-C-N	-10.93	102.47	120.72
1	A	461	CYS	C-N-CA	-10.93	102.47	120.72
2	B	134	LEU	CA-C-O	-10.92	109.33	120.80
3	M	54	SER	O-C-N	10.91	135.86	121.67
2	B	505	ASP	O-C-N	-10.91	109.71	122.15
4	S	95	GLU	CA-C-O	-10.91	108.99	120.55
1	A	445	ASN	N-CA-C	-10.90	97.30	112.45
2	B	494	ALA	O-C-N	10.89	134.56	122.15
3	M	96	ILE	O-C-N	10.89	134.10	121.80
3	M	111	ILE	O-C-N	10.89	132.87	121.87
2	B	588	ILE	CA-C-O	-10.88	109.07	120.71
4	S	168	GLY	N-CA-C	10.87	144.83	113.30
1	A	102	GLN	O-C-N	10.87	133.64	122.12
1	A	429	VAL	CA-C-O	-10.86	109.65	120.95
1	A	282	MET	O-C-N	-10.86	107.78	122.33
2	B	467	VAL	CA-C-O	-10.85	109.00	121.05
1	A	607	LEU	O-C-N	10.85	133.75	122.03
1	A	121	LEU	CA-C-O	-10.85	109.43	120.82
2	B	99	ARG	O-C-N	10.84	133.74	122.03
3	M	265	ASN	CA-C-O	-10.84	107.77	121.11
3	M	306	LEU	O-C-N	-10.83	107.91	122.43
1	A	534	LYS	O-C-N	-10.83	109.52	122.95
2	B	346	THR	CA-C-O	-10.83	109.07	120.55
1	A	493	ALA	CA-C-O	-10.83	108.94	120.63
2	B	402	LEU	N-CA-C	10.82	126.58	113.16
2	B	272	GLY	N-CA-C	-10.82	97.76	114.10
1	A	145	ILE	O-C-N	10.82	133.15	121.90
3	M	47	SER	N-CA-C	-10.82	92.74	109.95
1	A	90	HIS	CA-C-O	-10.81	109.57	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	S	28	GLN	O-C-N	10.80	134.86	122.22
3	M	330	GLY	CA-C-N	10.80	142.17	121.54
3	M	330	GLY	C-N-CA	10.80	142.17	121.54
1	A	601	VAL	CA-C-O	10.80	134.28	120.78
1	A	574	ILE	O-C-N	10.79	132.77	121.87
1	A	624	LEU	O-C-N	10.79	133.56	122.12
2	B	426	GLU	CA-C-O	-10.78	109.50	120.82
2	B	467	VAL	O-C-N	10.78	133.11	121.90
1	A	545	HIS	CA-C-O	10.76	132.25	120.63
1	A	233	PHE	O-C-N	-10.76	109.11	122.35
1	A	516	ILE	O-C-N	10.76	132.91	121.83
1	A	596	VAL	CA-C-O	-10.76	109.76	120.95
2	B	100	LEU	O-C-N	10.75	133.52	122.12
2	B	614	ILE	CA-C-O	-10.74	109.88	121.05
1	A	522	PHE	CA-C-O	-10.73	106.92	119.59
1	A	336	ILE	O-C-N	10.73	132.43	121.91
2	B	584	SER	CA-C-N	-10.73	100.38	121.41
2	B	584	SER	C-N-CA	-10.73	100.38	121.41
3	M	118	TYR	CA-C-O	-10.73	105.17	120.51
1	A	407	SER	N-CA-C	-10.72	93.74	110.36
2	B	323	ASN	CA-C-O	-10.72	109.06	120.42
2	B	474	VAL	CA-C-O	-10.72	109.82	121.29
2	B	507	ALA	O-C-N	10.69	133.08	122.07
2	B	67	ILE	CA-C-O	-10.69	108.71	120.25
1	A	462	GLN	CA-C-N	-10.68	105.13	120.29
1	A	462	GLN	C-N-CA	-10.68	105.13	120.29
1	A	372	ILE	O-C-N	10.67	132.35	121.89
2	B	101	ILE	O-C-N	10.66	132.35	121.91
1	A	573	GLU	CA-C-N	-10.65	103.64	120.47
1	A	573	GLU	C-N-CA	-10.65	103.64	120.47
2	B	513	TRP	O-C-N	10.65	133.17	122.09
1	A	613	ALA	CA-C-O	-10.65	109.73	120.70
2	B	391	ALA	CA-C-O	-10.65	109.36	121.07
4	S	153	VAL	CA-C-O	-10.64	109.89	120.95
2	B	454	LEU	O-C-N	10.62	133.56	122.09
1	A	465	SER	CA-C-O	10.61	132.80	121.55
3	M	296	LYS	CA-C-N	-10.61	108.03	122.99
3	M	296	LYS	C-N-CA	-10.61	108.03	122.99
1	A	473	ILE	O-C-N	10.60	133.78	121.80
2	B	359	LEU	CA-C-O	-10.60	109.98	120.90
2	B	494	ALA	CA-C-O	-10.59	109.20	120.42
1	A	107	TYR	O-C-N	10.58	133.33	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	522	GLU	N-CA-C	10.57	125.93	108.49
1	A	601	VAL	CA-C-N	-10.57	102.72	120.68
1	A	601	VAL	C-N-CA	-10.57	102.72	120.68
2	B	356	LYS	O-C-N	10.56	133.38	122.08
1	A	461	CYS	O-C-N	-10.55	108.61	122.33
2	B	550	VAL	O-C-N	10.55	132.56	121.90
3	M	122	SER	CA-C-O	-10.55	109.24	120.42
1	A	296	ASN	O-C-N	10.55	133.30	122.12
1	A	508	LEU	CA-C-O	-10.55	106.88	120.80
2	B	552	SER	O-C-N	10.55	133.30	122.12
2	B	209	SER	CA-C-O	-10.54	107.17	119.61
1	A	237	SER	O-C-N	10.54	131.14	120.70
1	A	501	ASN	CA-C-N	10.54	135.46	120.28
1	A	501	ASN	C-N-CA	10.54	135.46	120.28
2	B	586	SER	CA-C-O	-10.53	108.70	121.02
1	A	628	VAL	CA-C-O	-10.52	109.45	120.71
1	A	526	VAL	CA-C-N	10.52	134.75	120.54
1	A	526	VAL	C-N-CA	10.52	134.75	120.54
2	B	492	LYS	CA-C-O	-10.52	109.40	120.55
1	A	562	TRP	CA-C-O	-10.49	109.17	120.92
2	B	592	TYR	O-C-N	10.49	133.42	122.09
1	A	313	MET	O-C-N	10.49	132.94	122.03
1	A	577	VAL	CA-C-O	-10.49	109.73	120.85
2	B	509	ALA	CA-C-O	-10.48	110.10	120.90
1	A	308	ASP	N-CA-C	10.48	125.60	113.02
2	B	329	ALA	CB-CA-C	-10.48	93.12	109.89
1	A	447	PHE	O-C-N	10.47	134.09	122.15
2	B	589	SER	O-C-N	10.47	133.34	122.03
2	B	355	ASN	CA-C-O	-10.47	107.89	120.56
1	A	420	ILE	CA-C-N	10.46	132.92	119.84
1	A	420	ILE	C-N-CA	10.46	132.92	119.84
4	S	132	LEU	O-C-N	10.46	135.13	122.27
3	M	92	PHE	O-C-N	10.45	136.34	122.33
4	S	161	GLU	O-C-N	-10.45	109.42	122.27
1	A	573	GLU	N-CA-C	-10.44	99.89	111.07
1	A	600	SER	O-C-N	10.45	133.31	122.03
1	A	372	ILE	CA-C-O	-10.44	110.19	121.05
1	A	575	LYS	CA-C-O	-10.41	108.33	120.10
2	B	305	SER	O-C-N	10.41	132.79	122.07
2	B	97	VAL	CA-C-O	-10.41	110.14	121.17
2	B	325	LEU	O-C-N	-10.41	109.47	122.27
4	S	31	LEU	O-C-N	10.41	134.40	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	451	ASN	O-C-N	10.41	133.15	122.12
2	B	346	THR	O-C-N	10.41	133.15	122.12
2	B	126	SER	O-C-N	-10.40	110.05	122.22
2	B	302	PHE	O-C-N	10.40	132.78	122.07
2	B	557	SER	O-C-N	-10.39	108.77	122.59
1	A	319	LEU	CA-C-O	10.38	131.76	120.24
2	B	508	ARG	O-C-N	-10.38	110.08	122.22
3	M	294	ASP	CA-C-N	10.38	139.03	122.01
3	M	294	ASP	C-N-CA	10.38	139.03	122.01
2	B	83	PHE	O-C-N	10.38	135.72	122.23
1	A	554	ALA	O-C-N	10.37	133.23	122.03
2	B	127	LEU	N-CA-C	-10.36	99.18	112.23
1	A	106	GLY	CA-C-O	-10.36	110.38	121.05
2	B	219	TYR	N-CA-C	10.35	125.43	113.01
2	B	548	ILE	CA-C-O	-10.34	109.51	120.57
1	A	512	LEU	CA-C-O	-10.34	109.46	120.42
4	S	127	THR	CA-C-O	-10.34	109.97	120.82
2	B	359	LEU	O-C-N	10.33	133.19	122.03
2	B	596	LEU	CA-C-O	-10.33	109.85	120.90
1	A	212	ILE	O-C-N	-10.33	110.13	121.80
4	S	130	SER	O-C-N	10.33	133.07	122.12
1	A	252	ILE	CA-C-O	-10.33	109.52	120.57
3	M	335	SER	O-C-N	10.32	135.94	123.24
2	B	86	VAL	CA-C-O	-10.32	109.53	120.57
2	B	604	GLU	CA-C-N	10.32	133.86	120.44
2	B	604	GLU	C-N-CA	10.32	133.86	120.44
2	B	605	PHE	O-C-N	10.32	132.70	122.07
1	A	431	VAL	CA-C-O	-10.32	109.60	121.05
1	A	428	MET	O-C-N	10.31	132.69	122.07
2	B	251	LEU	O-C-N	10.30	133.22	122.09
3	M	323	MET	CA-C-N	-10.30	108.71	122.42
3	M	323	MET	C-N-CA	-10.30	108.71	122.42
2	B	151	ALA	O-C-N	10.30	133.17	121.32
1	A	353	ASP	O-C-N	10.29	132.67	122.07
2	B	174	ALA	O-C-N	-10.29	110.42	122.15
1	A	578	LEU	CA-C-O	-10.29	108.47	120.10
2	B	54	ARG	N-CA-C	10.29	125.21	112.87
2	B	341	GLU	O-C-N	10.29	132.79	122.09
2	B	361	GLN	CA-C-O	-10.28	110.02	120.82
2	B	523	PHE	O-C-N	-10.29	108.91	122.59
2	B	546	CYS	CA-C-O	-10.28	110.02	120.82
3	M	262	THR	CA-C-N	-10.28	101.90	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	262	THR	C-N-CA	-10.28	101.90	121.54
2	B	454	LEU	CA-C-O	-10.28	110.11	120.70
3	M	94	GLU	O-C-N	10.28	133.01	122.12
2	B	435	SER	CA-C-O	-10.28	110.10	120.89
2	B	210	CYS	CA-C-O	-10.27	109.56	120.55
2	B	510	GLY	O-C-N	10.27	132.30	122.13
1	A	200	PHE	O-C-N	10.27	132.64	122.07
2	B	552	SER	CA-C-O	-10.26	109.67	120.55
3	M	306	LEU	CA-C-O	10.26	132.00	119.38
4	S	87	PHE	CA-C-O	10.25	131.70	120.32
1	A	527	GLU	CA-C-N	10.24	140.84	122.62
1	A	527	GLU	C-N-CA	10.24	140.84	122.62
2	B	322	CYS	CA-C-O	-10.24	108.20	119.97
2	B	430	ILE	O-C-N	10.22	132.53	121.90
1	A	124	ALA	CA-C-O	-10.22	109.72	120.55
2	B	255	TYR	N-CA-C	10.21	122.41	111.28
2	B	233	TYR	O-C-N	10.21	132.59	122.07
4	S	103	GLN	O-C-N	10.20	136.10	122.43
1	A	159	ALA	O-C-N	10.20	132.93	122.12
1	A	100	LEU	O-C-N	-10.19	109.73	122.27
2	B	393	ILE	CA-C-O	-10.19	110.05	120.85
2	B	396	ILE	CA-C-O	-10.19	110.05	120.85
3	M	429	ASP	CA-C-N	-10.18	106.58	121.24
3	M	429	ASP	C-N-CA	-10.18	106.58	121.24
1	A	519	LEU	O-C-N	-10.17	110.61	122.20
2	B	43	ASN	O-C-N	10.17	133.01	121.32
2	B	290	SER	N-CA-C	10.17	125.81	113.41
3	M	306	LEU	CA-C-N	-10.17	107.23	120.65
3	M	306	LEU	C-N-CA	-10.17	107.23	120.65
3	M	41	LEU	O-C-N	10.16	137.21	122.28
1	A	384	LEU	CA-C-O	-10.16	110.24	120.70
2	B	251	LEU	CA-C-O	-10.16	110.24	120.70
2	B	126	SER	CA-C-O	10.15	131.57	120.10
1	A	556	VAL	O-C-N	10.14	133.26	121.80
1	A	604	LEU	O-C-N	10.14	132.87	122.12
1	A	554	ALA	CA-C-O	-10.14	110.46	120.90
2	B	230	PHE	N-CA-C	-10.13	100.07	111.82
1	A	471	SER	O-C-N	10.13	132.86	122.12
2	B	153	ILE	O-C-N	10.13	135.23	122.57
1	A	577	VAL	O-C-N	10.12	132.25	121.83
2	B	323	ASN	O-C-N	10.12	133.69	122.15
1	A	380	ASP	CA-C-O	-10.12	109.32	121.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	455	ILE	CA-C-O	-10.12	110.44	121.17
2	B	511	ILE	O-C-N	-10.12	111.68	121.90
1	A	543	TYR	N-CA-C	10.12	126.46	110.17
1	A	478	ARG	CA-C-O	-10.12	110.20	120.82
2	B	471	TYR	CA-C-O	-10.12	110.08	120.90
4	S	99	LEU	O-C-N	10.11	133.67	122.15
2	B	616	SER	CA-C-O	-10.10	109.96	121.07
1	A	551	LEU	O-C-N	10.09	132.59	122.09
1	A	490	VAL	O-C-N	10.09	132.22	121.83
2	B	611	ALA	O-C-N	10.09	134.02	122.22
2	B	343	LEU	O-C-N	10.08	132.52	122.03
1	A	163	ALA	CA-C-O	10.08	131.10	120.42
2	B	344	VAL	CA-C-O	-10.08	109.79	120.57
2	B	540	GLU	N-CA-C	10.08	125.98	110.36
4	S	16	LEU	CA-C-O	10.08	132.79	121.40
1	A	303	MET	N-CA-C	-10.08	99.29	111.69
2	B	169	VAL	CA-C-O	-10.07	108.97	120.96
1	A	214	VAL	O-C-N	10.07	132.21	121.83
1	A	609	LEU	CA-C-O	-10.07	110.33	120.70
2	B	306	LEU	O-C-N	10.07	132.79	122.12
4	S	104	THR	O-C-N	10.06	136.65	122.36
2	B	337	THR	CA-C-O	-10.05	106.14	120.51
3	M	425	THR	N-CA-C	-10.05	92.86	109.24
2	B	594	ALA	O-C-N	10.04	133.60	122.15
3	M	307	SER	CA-C-O	-10.04	110.45	121.00
2	B	431	MET	CA-C-O	-10.04	110.28	120.82
1	A	186	PHE	O-C-N	10.04	132.87	122.03
1	A	441	TYR	CA-C-O	10.04	134.86	120.51
1	A	477	PHE	O-C-N	10.04	133.59	122.15
2	B	350	THR	N-CA-C	10.03	124.91	109.96
2	B	546	CYS	O-C-N	10.03	132.40	122.07
2	B	138	ALA	O-C-N	10.03	132.52	122.09
2	B	451	MET	O-C-N	10.03	132.40	122.07
1	A	166	LEU	O-C-N	10.02	133.95	122.22
1	A	298	ILE	CA-C-N	-10.02	106.19	120.42
1	A	298	ILE	C-N-CA	-10.02	106.19	120.42
2	B	360	LEU	O-C-N	10.02	132.75	122.12
2	B	493	LEU	CA-C-O	-10.02	108.45	119.97
1	A	335	CYS	O-C-N	10.02	132.51	122.09
1	A	610	SER	O-C-N	10.01	133.61	122.20
2	B	396	ILE	O-C-N	10.01	132.14	121.83
2	B	314	ASN	CA-C-N	10.01	130.73	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	314	ASN	C-N-CA	10.01	130.73	119.32
3	M	424	PHE	N-CA-C	-10.01	92.85	109.46
4	S	108	SER	O-C-N	10.01	135.24	122.23
2	B	355	ASN	O-C-N	10.00	133.82	122.32
2	B	142	LEU	CA-C-N	-9.99	103.35	122.53
2	B	142	LEU	C-N-CA	-9.99	103.35	122.53
4	S	74	GLN	CA-C-O	9.98	132.07	120.69
2	B	514	LEU	CA-C-O	-9.98	110.23	120.90
2	B	134	LEU	O-C-N	9.97	133.68	122.11
2	B	544	THR	CA-C-O	-9.97	108.83	120.10
2	B	425	PRO	CA-C-O	-9.97	109.49	121.95
1	A	225	LEU	O-C-N	9.96	133.88	122.22
2	B	204	ASP	CA-C-N	9.96	130.24	119.28
2	B	204	ASP	C-N-CA	9.96	130.24	119.28
1	A	218	ALA	O-C-N	9.95	135.33	122.39
1	A	67	LYS	O-C-N	9.95	133.49	122.15
2	B	296	ASP	O-C-N	9.95	132.76	121.32
1	A	124	ALA	O-C-N	9.95	132.66	122.12
1	A	140	VAL	O-C-N	-9.94	111.56	121.90
1	A	511	VAL	CA-C-O	-9.93	110.62	120.95
1	A	548	GLN	CA-C-O	-9.93	109.90	120.63
2	B	86	VAL	O-C-N	9.93	131.90	121.87
2	B	357	GLU	CA-C-O	-9.93	110.28	120.90
2	B	362	ALA	CA-C-O	-9.93	109.91	120.63
3	M	458	LEU	CA-C-O	-9.93	110.27	121.89
4	S	155	GLU	CA-C-O	-9.93	109.89	120.42
1	A	69	ASN	CA-C-O	-9.92	110.03	120.55
1	A	309	PHE	CA-C-O	-9.92	110.16	121.07
4	S	18	LYS	O-C-N	-9.92	111.69	123.10
4	S	37	GLU	CA-C-O	-9.92	109.91	120.42
2	B	64	LYS	O-C-N	9.91	132.33	122.03
1	A	186	PHE	CA-C-O	-9.90	110.70	120.90
2	B	103	LEU	O-C-N	9.90	132.39	122.09
1	A	333	ILE	O-C-N	9.90	131.47	121.87
2	B	444	THR	N-CA-C	9.90	121.83	111.14
2	B	613	MET	O-C-N	9.89	132.77	122.09
2	B	596	LEU	O-C-N	9.89	132.38	122.09
1	A	121	LEU	O-C-N	9.89	132.25	122.07
1	A	538	GLU	CA-C-N	-9.88	106.83	122.65
1	A	538	GLU	C-N-CA	-9.88	106.83	122.65
1	A	613	ALA	O-C-N	9.88	132.76	122.09
2	B	493	LEU	O-C-N	9.88	134.42	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	295	VAL	O-C-N	9.87	132.50	121.94
2	B	324	ALA	CA-C-O	-9.87	107.24	119.38
2	B	452	LYS	O-C-N	9.87	133.45	122.20
2	B	468	LEU	O-C-N	9.87	132.58	122.12
2	B	342	ALA	O-C-N	9.86	132.57	122.12
1	A	309	PHE	O-C-N	9.85	132.62	122.08
1	A	68	THR	O-C-N	9.85	132.72	122.09
1	A	422	GLU	CA-C-O	-9.85	108.11	119.24
1	A	552	ILE	CA-C-O	-9.84	110.71	120.95
1	A	110	ALA	CA-C-O	9.84	131.22	120.20
2	B	389	ILE	CA-C-N	-9.84	104.17	120.30
2	B	389	ILE	C-N-CA	-9.84	104.17	120.30
1	A	254	ILE	O-C-N	9.83	131.54	121.91
2	B	609	ASP	CA-C-O	-9.83	110.50	120.82
2	B	342	ALA	CA-C-O	-9.83	110.13	120.55
1	A	497	LYS	CA-C-O	-9.83	110.00	120.42
1	A	122	MET	CA-C-O	-9.82	110.39	120.90
1	A	558	VAL	CA-C-O	-9.82	108.18	121.15
1	A	140	VAL	CA-C-N	-9.82	106.70	120.74
1	A	140	VAL	C-N-CA	-9.82	106.70	120.74
1	A	487	MET	O-C-N	-9.82	109.72	122.00
4	S	146	VAL	CA-C-O	-9.82	109.94	120.64
1	A	244	LEU	CA-C-O	9.82	131.19	119.61
1	A	71	VAL	O-C-N	9.81	131.39	121.87
1	A	146	ALA	CA-C-O	-9.80	109.22	120.20
2	B	371	GLN	N-CA-C	9.80	121.73	111.14
4	S	157	ASN	O-C-N	9.80	133.69	122.22
1	A	141	VAL	CA-C-O	-9.80	109.30	120.96
2	B	485	LYS	N-CA-C	-9.80	100.98	113.72
2	B	250	GLU	CA-C-O	-9.79	110.17	120.55
2	B	205	PRO	O-C-N	-9.79	109.59	122.22
4	S	167	ILE	CA-C-N	-9.79	104.08	121.70
4	S	167	ILE	C-N-CA	-9.79	104.08	121.70
2	B	345	ARG	CA-C-O	-9.78	110.62	120.70
1	A	265	GLN	O-C-N	-9.78	112.07	123.22
2	B	615	SER	O-C-N	9.78	132.65	122.09
2	B	253	ILE	CA-C-O	-9.77	109.61	120.46
2	B	544	THR	O-C-N	9.77	133.65	122.22
1	A	437	SER	N-CA-C	9.76	125.19	113.28
1	A	223	CYS	CA-C-O	-9.76	110.65	120.70
2	B	515	PHE	O-C-N	-9.76	110.80	122.22
2	B	317	VAL	O-C-N	9.75	135.18	121.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	471	TYR	O-C-N	9.75	132.23	122.09
1	A	599	ARG	CA-C-O	-9.75	110.09	120.42
1	A	387	ILE	O-C-N	9.74	132.81	121.80
2	B	450	VAL	CA-C-O	-9.74	109.88	121.18
1	A	515	CYS	O-C-N	9.73	133.29	122.20
2	B	190	GLU	O-C-N	9.73	132.43	122.12
2	B	475	ILE	CA-C-O	-9.73	108.62	120.78
1	A	67	LYS	CA-C-O	-9.72	110.12	120.42
1	A	316	LEU	O-C-N	9.72	132.59	122.09
2	B	35	TYR	O-C-N	9.72	135.46	122.43
2	B	250	GLU	O-C-N	9.72	132.43	122.12
1	A	217	ALA	O-C-N	9.72	132.08	122.07
1	A	611	LEU	O-C-N	9.72	133.23	122.15
2	B	429	VAL	O-C-N	9.72	132.78	121.80
2	B	319	LEU	O-C-N	9.71	132.52	122.03
1	A	184	ALA	CA-C-O	-9.70	110.63	120.82
2	B	560	ILE	O-C-N	-9.70	110.44	122.57
2	B	450	VAL	O-C-N	9.70	132.32	121.94
2	B	393	ILE	O-C-N	9.70	131.82	121.83
3	M	110	SER	CA-C-O	-9.70	109.83	121.66
3	M	111	ILE	CA-C-O	-9.69	110.20	120.57
2	B	549	LEU	CA-C-O	-9.69	110.63	120.80
3	M	110	SER	O-C-N	9.69	133.98	123.03
2	B	105	LEU	O-C-N	-9.68	109.71	122.59
4	S	137	GLN	CA-C-O	9.68	131.96	120.92
2	B	321	CYS	CA-C-O	-9.68	110.19	120.55
2	B	150	LEU	CA-C-O	-9.68	106.83	119.80
3	M	396	GLN	CA-C-O	9.68	130.50	120.24
1	A	334	SER	CA-C-O	-9.67	110.21	120.55
2	B	132	SER	CA-C-O	9.66	131.26	119.38
1	A	601	VAL	O-C-N	-9.66	110.50	122.57
2	B	116	THR	CA-C-O	-9.66	109.38	120.20
1	A	156	PRO	O-C-N	-9.65	110.49	122.17
1	A	258	LYS	O-C-N	9.65	132.35	122.12
2	B	233	TYR	CA-C-O	-9.65	110.69	120.82
1	A	400	VAL	CA-C-O	-9.65	109.75	120.46
4	S	129	GLU	CA-C-O	-9.65	110.19	120.42
4	S	84	TYR	CA-C-O	9.63	132.00	121.11
2	B	318	ILE	O-C-N	9.63	131.75	121.83
2	B	488	ARG	O-C-N	9.63	134.75	122.23
2	B	51	LEU	CA-C-N	-9.63	102.68	121.94
2	B	51	LEU	C-N-CA	-9.63	102.68	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	543	GLU	O-C-N	9.63	132.33	122.12
1	A	253	ILE	O-C-N	9.63	131.75	121.83
1	A	312	ALA	O-C-N	9.62	132.31	122.12
1	A	102	GLN	CA-C-O	-9.61	110.25	120.63
3	M	385	ARG	CA-C-O	9.61	131.93	120.20
1	A	562	TRP	O-C-N	9.61	133.16	122.11
2	B	142	LEU	O-C-N	-9.61	109.84	122.33
4	S	129	GLU	O-C-N	9.61	133.10	122.15
1	A	142	LYS	CA-C-O	-9.61	109.78	121.02
1	A	233	PHE	N-CA-C	-9.60	101.23	113.72
1	A	493	ALA	O-C-N	9.60	132.29	122.12
2	B	608	ARG	CA-C-O	-9.60	110.25	120.42
1	A	425	LYS	CA-C-O	-9.59	110.25	120.42
2	B	36	THR	CA-C-O	-9.59	108.59	119.14
3	M	430	LEU	CA-C-N	-9.58	112.88	123.13
3	M	430	LEU	C-N-CA	-9.58	112.88	123.13
1	A	355	LEU	O-C-N	9.58	134.06	122.27
2	B	151	ALA	CA-C-O	-9.58	107.03	120.16
2	B	216	LYS	CA-C-O	9.58	131.16	119.38
1	A	222	ILE	O-C-N	9.57	131.57	121.90
3	M	122	SER	O-C-N	9.57	133.06	122.15
1	A	465	SER	O-C-N	9.57	134.58	122.81
1	A	204	VAL	CA-C-N	-9.57	104.40	121.14
1	A	204	VAL	C-N-CA	-9.57	104.40	121.14
1	A	424	TYR	O-C-N	9.57	135.99	122.41
3	M	55	MET	CA-C-O	-9.57	110.07	122.03
1	A	417	PRO	N-CA-C	-9.56	97.06	111.41
1	A	584	PHE	O-C-N	9.56	132.42	122.09
1	A	183	THR	CA-C-O	-9.56	110.78	120.82
2	B	236	ILE	CA-C-O	-9.56	111.01	120.95
3	M	394	GLN	O-C-N	-9.55	112.14	123.31
1	A	426	ILE	CA-C-O	-9.55	110.73	120.85
1	A	633	PHE	O-C-N	9.55	132.24	122.12
2	B	547	GLN	CA-C-O	-9.55	110.43	120.55
2	B	137	PHE	O-C-N	9.54	133.09	122.11
1	A	122	MET	O-C-N	9.54	132.01	122.09
2	B	119	SER	O-C-N	9.54	133.07	122.20
1	A	177	ILE	O-C-N	9.53	134.41	121.84
2	B	96	LYS	O-C-N	9.53	132.22	122.12
1	A	513	ARG	O-C-N	9.52	132.22	122.12
4	S	108	SER	CA-C-O	-9.52	109.67	120.24
4	S	131	VAL	O-C-N	9.52	131.49	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	S	78	LYS	CA-C-O	9.52	131.61	120.66
2	B	119	SER	CA-C-O	-9.52	109.54	120.20
2	B	416	LYS	CA-C-O	-9.52	110.35	120.63
1	A	156	PRO	CA-C-N	-9.51	104.31	120.58
1	A	156	PRO	C-N-CA	-9.51	104.31	120.58
1	A	137	ASN	CA-C-N	-9.51	107.81	122.08
1	A	137	ASN	C-N-CA	-9.51	107.81	122.08
2	B	468	LEU	CA-C-O	-9.50	110.48	120.55
2	B	29	LYS	CA-C-N	-9.50	108.11	120.65
2	B	29	LYS	C-N-CA	-9.50	108.11	120.65
2	B	433	VAL	CA-C-O	-9.50	109.92	120.46
2	B	584	SER	N-CA-CB	-9.50	96.30	110.07
2	B	84	ALA	CA-C-O	-9.49	110.92	120.70
1	A	146	ALA	O-C-N	9.49	133.02	122.20
2	B	178	ILE	CA-C-O	-9.49	108.91	120.78
1	A	129	LYS	O-C-N	9.49	132.27	122.03
2	B	122	SER	O-C-N	9.49	131.84	122.07
2	B	411	ILE	O-C-N	9.48	133.51	121.94
2	B	507	ALA	CA-C-O	-9.48	110.86	120.82
1	A	452	ALA	CA-C-O	-9.48	110.94	120.70
3	M	305	ASP	CA-C-O	-9.48	110.44	120.58
1	A	370	LYS	CA-C-O	-9.48	109.07	119.97
2	B	447	GLU	O-C-N	9.48	133.31	122.22
3	M	1	MET	CA-C-N	-9.48	108.53	122.65
3	M	1	MET	C-N-CA	-9.48	108.53	122.65
1	A	77	LEU	CA-C-O	-9.47	110.38	120.42
2	B	469	ASP	O-C-N	9.47	132.16	122.12
4	S	29	LYS	CA-C-O	-9.46	109.73	120.24
1	A	381	GLU	O-C-N	-9.46	111.36	122.15
1	A	571	ARG	CA-C-N	9.46	133.91	120.28
1	A	571	ARG	C-N-CA	9.46	133.91	120.28
1	A	391	LEU	CA-C-O	9.46	131.34	119.05
1	A	594	PHE	CA-C-O	-9.45	109.62	120.20
2	B	132	SER	O-C-N	-9.45	109.77	122.43
2	B	317	VAL	CA-C-O	-9.45	110.05	120.25
4	S	155	GLU	O-C-N	9.44	132.91	122.15
2	B	389	ILE	N-CA-C	-9.44	101.36	110.42
3	M	93	LEU	CA-C-O	-9.44	110.98	120.70
2	B	73	ASP	CA-C-N	-9.43	107.94	121.99
2	B	73	ASP	C-N-CA	-9.43	107.94	121.99
1	A	605	GLU	O-C-N	9.43	133.87	122.27
1	A	392	MET	CA-C-O	-9.42	108.67	119.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	112	ASP	N-CA-C	9.42	127.09	109.10
2	B	230	PHE	CA-C-O	9.42	130.80	119.97
2	B	246	SER	CA-C-O	-9.42	110.44	120.42
3	M	227	GLU	CA-C-O	9.42	130.38	120.30
2	B	247	TYR	O-C-N	9.41	132.10	122.12
1	A	478	ARG	O-C-N	9.41	131.76	122.07
4	S	43	ASN	CA-C-N	-9.40	106.74	120.28
4	S	43	ASN	C-N-CA	-9.40	106.74	120.28
1	A	155	THR	O-C-N	9.39	131.86	121.53
1	A	444	VAL	N-CA-CB	9.39	120.77	110.53
1	A	426	ILE	O-C-N	9.38	131.50	121.83
2	B	553	ALA	CA-C-O	-9.38	111.03	120.70
1	A	405	THR	N-CA-C	9.38	130.78	110.80
4	S	130	SER	CA-C-O	-9.38	110.61	120.55
1	A	491	THR	O-C-N	9.38	132.22	122.09
2	B	56	SER	O-C-N	-9.38	109.52	122.46
1	A	117	ASP	CA-C-O	-9.38	109.70	120.58
2	B	456	ASP	CA-C-O	-9.37	110.51	120.63
3	M	90	PHE	CA-C-O	-9.37	109.19	119.97
1	A	106	GLY	O-C-N	9.37	131.41	122.13
2	B	103	LEU	CA-C-O	-9.37	110.88	120.90
2	B	553	ALA	O-C-N	9.37	132.21	122.09
2	B	500	GLN	N-CA-C	9.36	124.81	108.52
2	B	211	ALA	CA-C-O	-9.36	108.17	119.49
1	A	336	ILE	CA-C-O	-9.36	111.25	121.17
1	A	533	ILE	O-C-N	9.36	130.94	121.87
2	B	56	SER	CA-C-N	-9.36	104.31	121.52
2	B	56	SER	C-N-CA	-9.36	104.31	121.52
1	A	597	GLN	CA-C-O	-9.35	110.89	120.90
4	S	37	GLU	O-C-N	9.35	132.81	122.15
1	A	293	GLU	O-C-N	9.35	131.75	122.03
1	A	104	ARG	CA-C-O	-9.35	110.55	120.55
2	B	566	ALA	CA-C-N	9.35	141.54	121.64
2	B	566	ALA	C-N-CA	9.35	141.54	121.64
1	A	68	THR	CA-C-O	-9.34	111.08	120.70
1	A	356	ILE	O-C-N	9.34	131.93	121.94
2	B	247	TYR	CA-C-O	-9.33	110.66	120.55
1	A	477	PHE	CA-C-O	-9.33	110.53	120.42
1	A	371	ALA	O-C-N	9.33	132.10	122.03
1	A	100	LEU	N-CA-C	-9.32	101.00	111.82
2	B	610	ARG	O-C-N	9.32	132.78	122.15
1	A	317	GLU	O-C-N	9.32	132.00	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	348	PHE	O-C-N	9.32	133.73	122.27
1	A	381	GLU	CA-C-O	9.32	130.30	120.42
4	S	16	LEU	O-C-N	-9.32	111.89	123.17
1	A	231	GLN	O-C-N	9.31	129.46	120.71
2	B	244	SER	CA-C-O	-9.31	106.95	119.05
1	A	371	ALA	CA-C-O	-9.31	111.31	120.90
1	A	383	ASN	O-C-N	9.31	133.72	122.27
4	S	106	VAL	O-C-N	9.31	133.30	121.94
2	B	189	HIS	CA-C-O	-9.31	108.23	119.49
3	M	56	VAL	CA-C-O	-9.31	110.50	120.64
4	S	157	ASN	CA-C-O	-9.30	109.59	120.10
4	S	159	ALA	O-C-N	9.30	132.13	122.09
2	B	117	LEU	CA-C-O	-9.30	110.60	120.55
1	A	522	PHE	O-C-N	9.29	133.31	122.25
2	B	428	VAL	O-C-N	9.29	134.55	121.82
2	B	426	GLU	O-C-N	9.29	131.64	122.07
2	B	371	GLN	O-C-N	9.29	132.12	122.09
2	B	465	ALA	CA-C-O	-9.29	110.60	120.63
3	M	322	LEU	CA-C-N	-9.29	110.07	122.42
3	M	322	LEU	C-N-CA	-9.29	110.07	122.42
1	A	559	PHE	O-C-N	9.28	134.93	122.59
1	A	184	ALA	O-C-N	9.28	131.62	122.07
1	A	519	LEU	CA-C-O	9.27	130.59	120.20
2	B	300	ASP	CA-C-O	-9.27	111.15	120.70
2	B	439	CYS	O-C-N	9.27	132.11	122.09
1	A	609	LEU	O-C-N	9.27	132.10	122.09
2	B	492	LYS	O-C-N	9.27	131.94	122.12
4	S	13	GLN	CA-C-O	9.27	129.99	119.61
1	A	473	ILE	CA-C-O	-9.26	110.47	120.47
2	B	47	LEU	O-C-N	9.26	132.41	121.76
1	A	568	GLU	N-CA-C	-9.26	100.12	111.33
4	S	109	LEU	CA-C-N	-9.26	107.87	120.28
4	S	109	LEU	C-N-CA	-9.26	107.87	120.28
1	A	166	LEU	CA-C-O	-9.26	109.64	120.10
1	A	558	VAL	O-C-N	9.26	133.23	121.94
2	B	68	SER	CA-C-O	-9.26	111.36	120.90
3	M	87	LEU	CA-C-O	-9.26	109.83	120.20
3	M	458	LEU	CA-C-N	9.25	139.21	122.92
3	M	458	LEU	C-N-CA	9.25	139.21	122.92
2	B	486	HIS	CA-C-O	-9.25	110.61	120.42
4	S	154	ASP	CA-C-O	-9.25	109.33	119.97
2	B	116	THR	O-C-N	9.25	132.74	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	315	CYS	O-C-N	9.24	132.69	122.15
2	B	245	GLN	CA-C-O	-9.24	108.59	119.78
4	S	27	LYS	O-C-N	9.24	134.81	122.43
3	M	367	ALA	N-CA-C	-9.23	94.61	109.76
2	B	343	LEU	CA-C-O	-9.23	111.31	121.00
1	A	579	LYS	O-C-N	9.21	132.65	122.15
1	A	346	THR	O-C-N	-9.20	110.43	122.39
1	A	216	SER	O-C-N	9.20	131.54	122.07
2	B	246	SER	O-C-N	9.20	132.63	122.15
1	A	230	PRO	CA-C-O	-9.19	106.03	119.18
1	A	72	LEU	CA-C-O	-9.19	111.17	120.82
1	A	72	LEU	O-C-N	9.19	131.53	122.07
2	B	223	LEU	CA-C-O	9.18	130.99	119.05
4	S	32	LEU	CA-C-O	-9.18	107.93	119.31
1	A	113	SER	N-CA-C	9.17	124.60	113.41
2	B	528	ASP	O-C-N	9.17	135.12	122.46
1	A	255	ARG	CA-C-O	-9.17	111.37	121.00
1	A	514	GLU	O-C-N	9.17	132.00	122.09
4	S	152	SER	O-C-N	9.16	131.83	122.12
1	A	199	ASN	N-CA-C	9.15	124.64	113.38
1	A	517	TRP	CA-C-O	-9.15	110.08	120.24
1	A	479	ASN	CA-C-O	-9.15	109.76	120.10
1	A	123	LEU	O-C-N	9.15	131.81	122.12
3	M	372	ILE	CA-C-N	-9.14	110.61	122.77
3	M	372	ILE	C-N-CA	-9.14	110.61	122.77
1	A	75	THR	O-C-N	9.13	131.80	122.12
2	B	267	ASP	O-C-N	-9.12	111.09	122.68
2	B	270	SER	N-CA-C	-9.12	91.37	110.80
1	A	517	TRP	O-C-N	9.11	134.08	122.23
1	A	337	LEU	CA-C-O	-9.11	109.49	119.97
1	A	395	PHE	CA-C-N	-9.11	106.06	121.09
1	A	395	PHE	C-N-CA	-9.11	106.06	121.09
3	M	272	LEU	CA-C-N	9.11	137.55	120.97
3	M	272	LEU	C-N-CA	9.11	137.55	120.97
1	A	75	THR	CA-C-O	-9.11	110.90	120.55
1	A	281	LEU	O-C-N	-9.11	110.13	122.33
1	A	488	ARG	O-C-N	9.11	134.07	122.23
2	B	448	SER	O-C-N	9.10	131.77	122.12
4	S	156	LEU	O-C-N	9.10	132.87	122.22
2	B	395	LYS	O-C-N	9.10	132.86	122.22
2	B	431	MET	O-C-N	9.10	131.44	122.07
2	B	143	SER	CA-C-N	-9.09	104.17	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	143	SER	C-N-CA	-9.09	104.17	121.54
2	B	169	VAL	O-C-N	9.09	133.72	121.90
2	B	421	SER	N-CA-C	9.09	124.81	112.90
4	S	84	TYR	O-C-N	-9.09	111.37	123.19
3	M	266	ASP	CA-C-N	9.09	134.20	121.66
3	M	266	ASP	C-N-CA	9.09	134.20	121.66
1	A	383	ASN	CA-C-O	-9.08	109.53	119.97
1	A	475	GLU	O-C-N	9.08	132.85	122.22
4	S	128	LEU	O-C-N	9.08	133.44	122.27
2	B	139	LEU	CA-C-O	-9.08	107.24	119.05
1	A	625	LEU	O-C-N	-9.08	112.72	122.07
2	B	456	ASP	O-C-N	9.08	131.74	122.12
3	M	54	SER	CB-CA-C	-9.07	97.21	109.28
1	A	154	ILE	CA-C-N	-9.07	106.90	120.68
1	A	154	ILE	C-N-CA	-9.07	106.90	120.68
2	B	215	TYR	O-C-N	9.06	134.65	122.59
2	B	417	TYR	O-C-N	9.06	132.82	122.22
3	M	447	ILE	CA-C-O	9.06	132.10	120.78
1	A	629	LEU	O-C-N	-9.05	111.95	120.55
2	B	340	ILE	CA-C-O	-9.05	109.46	120.78
2	B	411	ILE	CA-C-O	-9.05	109.20	121.15
2	B	526	CYS	CA-C-O	-9.04	107.77	120.16
1	A	390	THR	O-C-N	9.04	132.45	122.15
1	A	472	LYS	O-C-N	9.04	133.38	122.27
1	A	578	LEU	O-C-N	9.04	132.79	122.22
3	M	113	LYS	O-C-N	9.04	133.38	122.27
2	B	216	LYS	CA-C-N	-9.03	104.29	121.54
2	B	216	LYS	C-N-CA	-9.03	104.29	121.54
4	S	132	LEU	CA-C-O	-9.03	109.58	119.97
2	B	98	LYS	O-C-N	9.03	132.49	122.20
3	M	263	MET	CA-C-N	9.03	138.68	120.80
3	M	263	MET	C-N-CA	9.03	138.68	120.80
2	B	504	ALA	O-C-N	9.03	133.97	122.87
1	A	579	LYS	CA-C-O	-9.02	110.85	120.42
1	A	215	VAL	O-C-N	-9.02	112.52	121.90
3	M	426	LYS	N-CA-C	-9.02	95.04	109.39
1	A	279	LEU	O-C-N	-9.02	110.60	122.59
2	B	172	GLU	CA-C-O	9.02	130.37	120.63
2	B	391	ALA	O-C-N	9.02	131.73	122.08
1	A	255	ARG	O-C-N	9.02	131.41	122.03
2	B	150	LEU	O-C-N	9.02	134.14	122.06
2	B	425	PRO	O-C-N	9.02	133.82	122.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	S	30	LEU	O-C-N	9.01	133.94	122.23
2	B	43	ASN	CA-C-O	-9.01	107.82	120.16
2	B	64	LYS	CA-C-O	-9.00	111.55	121.00
2	B	491	PHE	CA-C-O	-9.00	111.01	120.55
1	A	101	GLN	CA-C-O	-8.99	111.44	120.70
1	A	495	ILE	CA-C-O	-8.99	111.64	121.17
2	B	609	ASP	O-C-N	8.99	131.34	122.07
2	B	300	ASP	O-C-N	8.99	131.80	122.09
2	B	466	SER	O-C-N	8.99	132.40	122.15
2	B	65	ARG	O-C-N	8.98	133.32	122.27
1	A	634	ASN	CA-C-O	-8.98	109.19	119.79
2	B	249	ILE	CA-C-O	-8.98	110.28	120.96
1	A	456	ASP	O-C-N	8.96	131.77	122.09
2	B	356	LYS	CA-C-O	-8.96	111.21	121.07
3	M	307	SER	O-C-N	8.96	131.35	122.03
1	A	369	SER	O-C-N	8.96	132.36	122.15
1	A	241	TYR	O-C-N	8.96	131.71	122.03
1	A	385	LYS	O-C-N	8.96	132.70	122.22
1	A	139	ASP	CA-C-O	-8.95	108.38	119.38
1	A	346	THR	CA-C-O	8.94	130.31	119.49
2	B	186	ASN	N-CA-C	8.94	121.03	111.28
1	A	375	VAL	CA-C-O	8.94	130.57	121.27
4	S	165	SER	CA-C-N	-8.94	105.79	120.72
4	S	165	SER	C-N-CA	-8.94	105.79	120.72
1	A	452	ALA	O-C-N	8.94	131.74	122.09
1	A	489	GLU	O-C-N	8.94	131.59	122.12
2	B	549	LEU	O-C-N	8.94	132.47	122.11
4	S	161	GLU	CA-C-O	8.93	130.24	119.97
2	B	477	MET	CA-C-O	-8.93	111.00	120.55
1	A	302	ASN	CA-C-O	8.93	133.27	120.51
1	A	257	LEU	O-C-N	8.92	133.83	122.23
4	S	151	ALA	O-C-N	8.92	132.32	122.15
1	A	159	ALA	CA-C-O	-8.92	111.10	120.55
1	A	180	LYS	O-C-N	8.92	131.26	122.07
3	M	387	GLU	CA-C-O	8.92	130.16	120.71
1	A	428	MET	CA-C-O	-8.91	111.47	120.82
2	B	472	VAL	CA-C-N	-8.91	107.64	120.29
2	B	472	VAL	C-N-CA	-8.91	107.64	120.29
1	A	241	TYR	CA-C-O	-8.91	111.73	120.90
1	A	339	TYR	O-C-N	8.91	132.35	122.11
2	B	409	LYS	O-C-N	8.91	132.64	122.22
1	A	399	ASP	O-C-N	8.90	134.32	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	556	VAL	CA-C-O	-8.90	110.85	120.47
3	M	55	MET	CA-C-N	-8.90	106.02	120.62
3	M	55	MET	C-N-CA	-8.90	106.02	120.62
3	M	385	ARG	O-C-N	-8.89	111.89	123.28
1	A	419	ILE	N-CA-C	8.89	127.83	109.34
1	A	256	LEU	O-C-N	8.89	134.41	122.59
1	A	94	VAL	CA-C-O	8.89	130.91	121.05
2	B	305	SER	CA-C-O	-8.88	111.49	120.82
4	S	86	THR	CA-C-O	8.88	130.12	120.71
1	A	74	LEU	CA-C-O	-8.88	111.14	120.55
1	A	317	GLU	CA-C-O	-8.87	111.05	120.63
1	A	368	ARG	O-C-N	8.86	131.31	122.09
2	B	192	LEU	O-C-N	8.87	134.38	122.59
2	B	513	TRP	CA-C-O	-8.87	111.41	120.90
1	A	539	ASN	CA-C-O	8.86	129.93	119.56
1	A	518	CYS	O-C-N	8.86	131.24	122.03
2	B	389	ILE	CA-C-O	8.86	130.56	121.17
4	S	42	ARG	CA-C-N	8.86	134.12	120.75
4	S	42	ARG	C-N-CA	8.86	134.12	120.75
1	A	90	HIS	O-C-N	8.85	131.65	122.09
2	B	98	LYS	CA-C-O	-8.85	110.29	120.20
2	B	105	LEU	CA-C-O	8.85	133.16	120.51
1	A	330	LEU	CA-C-O	-8.85	109.21	120.00
1	A	293	GLU	CA-C-O	-8.84	111.71	121.00
1	A	621	LEU	O-C-N	-8.84	112.25	120.92
1	A	108	LEU	O-C-N	8.84	132.23	122.15
1	A	610	SER	CA-C-O	-8.84	110.30	120.20
1	A	415	ARG	CA-C-N	-8.84	105.78	122.13
1	A	415	ARG	C-N-CA	-8.84	105.78	122.13
1	A	560	SER	CA-C-O	-8.84	109.81	119.97
1	A	425	LYS	O-C-N	8.83	132.22	122.15
3	M	396	GLN	CA-C-N	-8.83	110.68	123.05
3	M	396	GLN	C-N-CA	-8.83	110.68	123.05
4	S	137	GLN	N-CA-C	8.83	123.25	110.10
2	B	571	SER	CA-C-O	-8.82	110.66	120.81
2	B	66	ILE	O-C-N	8.82	133.60	122.57
4	S	136	VAL	N-CA-C	8.82	120.93	111.58
2	B	453	TRP	O-C-N	8.82	133.12	122.27
1	A	320	HIS	CA-C-O	8.81	129.89	120.55
2	B	27	THR	CA-C-N	8.81	137.17	121.66
2	B	27	THR	C-N-CA	8.81	137.17	121.66
2	B	547	GLN	O-C-N	8.81	131.46	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	309	GLN	O-C-N	8.81	131.15	122.07
1	A	123	LEU	CA-C-O	-8.81	111.21	120.55
1	A	474	GLY	CA-C-O	-8.81	111.32	120.66
2	B	555	LEU	CA-C-O	-8.81	107.92	120.51
2	B	551	LEU	CA-C-O	-8.81	109.26	120.00
1	A	315	CYS	CA-C-O	-8.80	111.09	120.42
1	A	632	PHE	CA-C-O	-8.79	111.59	120.82
2	B	329	ALA	N-CA-C	8.79	123.14	109.96
3	M	232	HIS	O-C-N	-8.78	113.00	123.10
1	A	356	ILE	CA-C-O	-8.78	111.00	121.18
2	B	48	VAL	CA-C-O	-8.78	109.81	120.78
1	A	224	GLU	CA-C-N	-8.77	107.65	120.28
1	A	224	GLU	C-N-CA	-8.77	107.65	120.28
2	B	68	SER	O-C-N	8.77	131.51	122.03
1	A	156	PRO	CA-C-O	8.77	133.49	119.64
2	B	491	PHE	O-C-N	8.77	131.41	122.12
1	A	118	SER	CA-C-O	-8.76	111.26	120.55
1	A	598	GLU	CA-C-O	-8.76	109.89	119.97
2	B	412	PHE	CA-C-O	-8.76	107.98	120.51
2	B	613	MET	CA-C-O	-8.76	111.68	120.70
1	A	502	ASP	CA-C-O	-8.75	110.21	120.10
2	B	159	LYS	CA-C-O	-8.75	111.63	120.82
1	A	436	CYS	CA-C-O	8.75	130.03	119.97
2	B	56	SER	N-CA-C	-8.74	102.52	113.01
2	B	418	TYR	CA-C-O	8.74	129.91	120.55
2	B	482	ASN	O-C-N	8.74	131.38	121.32
1	A	214	VAL	CA-C-O	-8.74	111.58	120.85
1	A	457	LEU	CA-C-O	-8.74	111.19	120.63
1	A	455	MET	CA-C-O	-8.73	110.23	120.10
4	S	148	ARG	O-C-N	8.73	133.58	122.23
1	A	427	LYS	CA-C-O	-8.73	110.24	120.10
4	S	138	GLY	CA-C-N	8.73	133.78	122.00
4	S	138	GLY	C-N-CA	8.73	133.78	122.00
1	A	160	ARG	O-C-N	8.72	131.36	122.12
1	A	369	SER	CA-C-O	-8.72	111.18	120.42
2	B	357	GLU	O-C-N	8.72	131.15	122.09
2	B	169	VAL	N-CA-C	-8.71	102.37	110.82
1	A	602	GLU	CA-C-O	-8.70	109.52	119.79
2	B	118	LEU	O-C-N	8.70	131.03	122.07
1	A	397	ASP	CA-C-O	8.70	128.69	118.69
1	A	512	LEU	O-C-N	8.70	132.07	122.15
1	A	327	ASP	O-C-N	8.70	131.01	121.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	321	CYS	O-C-N	8.70	132.69	122.17
2	B	587	ARG	O-C-N	8.70	132.96	122.27
3	M	97	ASP	CA-C-O	-8.70	111.74	120.70
1	A	462	GLN	N-CA-C	-8.69	101.94	112.54
2	B	345	ARG	O-C-N	8.69	131.47	122.09
4	S	151	ALA	CA-C-O	-8.69	111.21	120.42
2	B	435	SER	O-C-N	8.69	132.36	122.11
1	A	330	LEU	O-C-N	8.68	135.04	122.28
2	B	408	VAL	CA-C-O	-8.68	111.28	120.57
2	B	559	ASP	O-C-N	8.68	133.79	122.42
1	A	385	LYS	CA-C-O	-8.68	110.30	120.10
2	B	415	LEU	O-C-N	8.67	134.12	122.59
2	B	63	MET	CA-C-O	-8.66	109.13	119.27
1	A	389	GLN	O-C-N	8.66	132.35	122.22
1	A	467	LYS	O-C-N	8.66	132.92	122.27
1	A	270	LEU	CA-C-O	-8.65	111.29	120.55
1	A	494	ASN	O-C-N	8.65	132.01	122.15
4	S	85	PHE	O-C-N	-8.65	113.19	123.31
3	M	229	LYS	CA-C-O	-8.64	111.03	121.06
1	A	598	GLU	O-C-N	8.64	132.90	122.27
1	A	308	ASP	CA-C-N	8.64	132.80	120.79
1	A	308	ASP	C-N-CA	8.64	132.80	120.79
2	B	593	ASN	CA-C-O	-8.64	108.16	120.51
1	A	70	ALA	CA-C-O	-8.64	111.40	120.55
2	B	175	LEU	O-C-N	8.63	130.96	122.07
2	B	476	ARG	CA-C-O	-8.63	110.04	119.97
1	A	240	LEU	O-C-N	-8.62	111.66	122.27
2	B	436	LEU	CA-C-O	-8.62	108.19	120.51
1	A	476	GLN	O-C-N	8.61	133.87	122.33
2	B	170	ARG	O-C-N	-8.61	112.38	122.20
4	S	83	LEU	O-C-N	-8.61	112.31	123.16
1	A	574	ILE	CA-C-O	-8.61	111.36	120.57
4	S	36	TYR	O-C-N	8.61	134.93	122.28
2	B	390	VAL	CA-C-O	-8.60	111.18	120.47
4	S	125	TRP	O-C-N	8.60	131.28	122.08
3	M	400	ASP	CA-C-O	-8.60	111.58	121.47
2	B	226	LEU	O-C-N	8.59	134.02	122.59
3	M	124	ILE	O-C-N	8.59	133.07	121.90
2	B	61	ASP	O-C-N	8.59	131.22	122.12
1	A	515	CYS	CA-C-O	-8.58	110.59	120.20
4	S	159	ALA	CA-C-O	-8.58	111.86	120.70
2	B	61	ASP	CA-C-O	-8.58	111.37	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	213	LEU	O-C-N	8.57	133.99	122.59
1	A	180	LYS	CA-C-O	-8.56	111.83	120.82
1	A	323	CYS	N-CA-C	8.56	123.38	113.19
2	B	555	LEU	O-C-N	8.56	133.97	122.59
2	B	588	ILE	O-C-N	8.56	133.13	121.84
2	B	394	TRP	CA-C-O	-8.56	110.13	119.97
4	S	36	TYR	CA-C-O	-8.55	109.57	120.00
1	A	294	SER	O-C-N	8.55	131.95	122.20
1	A	581	LEU	O-C-N	8.55	133.50	122.39
2	B	288	TYR	N-CA-C	-8.54	91.29	108.12
4	S	38	LEU	O-C-N	8.54	132.78	122.27
4	S	35	VAL	O-C-N	8.54	133.25	122.57
1	A	222	ILE	CA-C-O	-8.54	111.33	120.64
1	A	306	GLU	O-C-N	-8.54	111.23	122.59
2	B	252	LEU	O-C-N	8.53	133.78	122.43
1	A	337	LEU	O-C-N	8.53	132.76	122.27
2	B	358	MET	O-C-N	8.53	132.20	122.22
1	A	236	LEU	O-C-N	8.53	133.59	122.42
1	A	276	PRO	CA-C-O	8.53	130.20	118.86
2	B	437	SER	O-C-N	8.52	132.75	122.27
1	A	544	SER	CA-C-O	-8.51	112.00	121.87
2	B	475	ILE	O-C-N	8.51	133.21	122.57
1	A	508	LEU	CA-C-N	8.51	128.49	119.05
1	A	508	LEU	C-N-CA	8.51	128.49	119.05
2	B	490	ILE	O-C-N	8.50	132.95	121.90
2	B	44	PRO	O-C-N	8.50	132.43	122.23
2	B	324	ALA	O-C-N	8.50	133.82	122.43
1	A	597	GLN	O-C-N	8.49	130.92	122.09
2	B	533	LEU	O-C-N	8.49	131.12	122.12
4	S	135	ILE	CA-C-O	8.49	129.85	119.58
1	A	148	SER	O-C-N	8.49	131.83	122.15
1	A	430	ASN	O-C-N	8.49	131.88	122.20
1	A	550	VAL	O-C-N	8.49	132.94	121.90
2	B	215	TYR	CA-C-O	-8.49	108.37	120.51
2	B	616	SER	O-C-N	8.49	131.16	122.08
1	A	458	ALA	O-C-N	8.48	132.15	122.22
2	B	612	ARG	CA-C-O	-8.48	110.83	120.24
1	A	588	LEU	CA-C-O	8.48	132.47	118.91
3	M	389	SER	O-C-N	8.47	133.01	122.84
2	B	410	GLU	O-C-N	8.47	132.69	122.27
2	B	606	ASP	CA-C-O	-8.47	111.57	120.55
1	A	456	ASP	CA-C-O	-8.47	111.98	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	155	LEU	CA-C-O	-8.46	108.41	120.51
1	A	226	SER	CA-C-N	-8.46	108.28	120.29
1	A	226	SER	C-N-CA	-8.46	108.28	120.29
2	B	58	GLU	O-C-N	8.46	132.68	122.27
2	B	374	PHE	CA-C-O	-8.46	109.92	118.97
1	A	128	LEU	O-C-N	8.46	133.38	122.39
3	M	277	GLU	N-CA-C	8.46	122.20	108.41
2	B	413	LYS	O-C-N	8.45	132.11	122.22
2	B	607	ILE	CA-C-O	-8.45	111.67	121.05
2	B	374	PHE	O-C-N	8.45	132.70	122.48
1	A	364	ASP	O-C-N	8.44	132.92	123.04
1	A	575	LYS	O-C-N	8.44	132.10	122.22
2	B	142	LEU	CA-C-O	8.44	129.57	119.61
2	B	470	ALA	CA-C-O	-8.44	112.20	120.90
1	A	602	GLU	O-C-N	8.44	133.63	122.33
2	B	154	ILE	O-C-N	8.43	133.11	122.57
4	S	29	LYS	O-C-N	8.43	133.19	122.23
4	S	131	VAL	CA-C-O	-8.43	111.55	120.57
2	B	104	TYR	O-C-N	8.43	133.80	122.59
2	B	128	SER	CA-C-N	8.43	133.47	120.75
2	B	128	SER	C-N-CA	8.43	133.47	120.75
2	B	485	LYS	O-C-N	8.43	132.71	122.35
4	S	18	LYS	CA-C-O	8.43	131.22	121.28
2	B	177	ILE	O-C-N	8.42	133.09	122.57
1	A	152	THR	N-CA-C	-8.41	102.03	113.30
1	A	142	LYS	O-C-N	8.41	132.38	122.20
2	B	415	LEU	CA-C-O	-8.41	108.48	120.51
1	A	623	MET	O-C-N	8.41	133.60	122.33
2	B	512	VAL	CA-C-O	-8.41	110.95	120.96
4	S	141	VAL	CA-C-N	-8.41	111.56	122.16
4	S	141	VAL	C-N-CA	-8.41	111.56	122.16
1	A	297	CYS	O-C-N	-8.41	112.57	122.15
1	A	386	ALA	O-C-N	8.40	133.15	122.23
1	A	328	PRO	O-C-N	-8.40	110.36	122.37
1	A	421	PRO	CA-C-O	-8.40	105.31	120.60
4	S	94	SER	CA-C-O	-8.40	111.75	121.16
1	A	547	VAL	CA-C-O	-8.39	112.27	121.17
2	B	58	GLU	CA-C-O	-8.39	110.32	119.97
2	B	530	LEU	CA-C-O	-8.39	109.34	119.49
1	A	187	LYS	CA-C-O	-8.39	111.66	120.55
1	A	548	GLN	O-C-N	8.38	131.01	122.12
2	B	550	VAL	CA-C-O	-8.38	111.50	120.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	137	PHE	CA-C-O	-8.38	111.53	120.92
2	B	123	LEU	O-C-N	8.38	133.22	122.33
1	A	467	LYS	CA-C-O	-8.38	110.34	119.97
2	B	66	ILE	CA-C-O	-8.37	110.32	120.78
1	A	182	ILE	O-C-N	8.37	132.78	121.90
2	B	236	ILE	CA-C-N	8.37	132.33	120.53
2	B	236	ILE	C-N-CA	8.37	132.33	120.53
2	B	567	GLN	CA-C-N	-8.37	106.91	121.97
2	B	567	GLN	C-N-CA	-8.37	106.91	121.97
3	M	87	LEU	O-C-N	8.36	131.73	122.20
3	M	256	VAL	O-C-N	8.36	132.05	123.10
1	A	608	ARG	O-C-N	8.36	133.70	122.59
2	B	234	CYS	CA-C-O	-8.35	111.69	120.55
2	B	267	ASP	CA-C-N	-8.35	105.24	121.94
2	B	267	ASP	C-N-CA	-8.35	105.24	121.94
1	A	139	ASP	CA-C-N	8.35	131.24	120.56
1	A	139	ASP	C-N-CA	8.35	131.24	120.56
1	A	391	LEU	O-C-N	-8.35	110.94	122.46
3	M	88	ASP	CA-C-O	-8.35	110.67	120.10
2	B	303	LEU	O-C-N	8.34	131.66	122.15
2	B	371	GLN	CA-C-O	-8.34	112.11	120.70
2	B	604	GLU	O-C-N	8.34	133.15	122.97
1	A	339	TYR	CA-C-O	-8.34	111.58	120.92
3	M	123	LEU	O-C-N	8.34	133.60	122.43
1	A	603	VAL	O-C-N	8.33	132.84	121.84
2	B	249	ILE	O-C-N	8.33	132.73	121.90
1	A	193	PRO	CA-C-O	-8.33	106.89	119.55
1	A	549	GLU	O-C-N	8.33	131.96	122.22
1	A	104	ARG	O-C-N	8.32	132.24	122.17
2	B	304	GLN	O-C-N	8.32	130.94	122.12
1	A	453	VAL	CA-C-O	-8.32	112.30	120.95
1	A	353	ASP	CA-C-O	-8.32	112.09	120.82
2	B	449	HIS	CA-C-O	-8.32	110.41	119.97
1	A	628	VAL	O-C-N	8.31	132.82	121.84
1	A	550	VAL	CA-C-O	-8.31	111.07	120.96
1	A	555	LEU	O-C-N	8.30	133.63	122.59
3	M	92	PHE	CA-C-O	-8.30	110.00	119.79
2	B	101	ILE	CA-C-N	8.30	131.23	120.44
2	B	101	ILE	C-N-CA	8.30	131.23	120.44
3	M	283	PHE	N-CA-C	-8.30	94.73	108.34
1	A	200	PHE	CA-C-O	-8.29	112.11	120.82
2	B	429	VAL	CA-C-O	-8.30	111.51	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	495	ASP	O-C-N	8.30	131.93	122.22
2	B	223	LEU	O-C-N	-8.29	111.01	122.46
3	M	265	ASN	N-CA-C	-8.29	90.66	107.41
1	A	67	LYS	N-CA-C	-8.29	102.33	111.36
1	A	117	ASP	O-C-N	8.28	133.40	122.96
2	B	417	TYR	CA-C-O	-8.28	110.74	120.10
3	M	125	PHE	CA-C-O	-8.29	111.68	120.63
2	B	299	LEU	CA-C-O	-8.28	111.64	120.42
3	M	117	ASN	CA-C-O	-8.28	109.26	119.28
1	A	230	PRO	N-CA-C	8.28	124.60	113.84
2	B	515	PHE	CA-C-O	8.28	129.46	120.10
1	A	436	CYS	CA-C-N	-8.28	106.67	122.06
1	A	436	CYS	C-N-CA	-8.28	106.67	122.06
1	A	218	ALA	CA-C-O	-8.27	109.48	119.49
2	B	301	LEU	O-C-N	8.27	133.14	122.39
2	B	100	LEU	CA-C-O	-8.27	111.70	120.63
2	B	82	TYR	CA-C-O	8.27	129.79	119.05
1	A	278	ILE	CA-C-N	8.26	137.32	121.54
1	A	278	ILE	C-N-CA	8.26	137.32	121.54
1	A	528	ASN	CA-C-O	8.26	135.93	121.38
2	B	101	ILE	CA-C-O	-8.26	112.42	121.17
1	A	174	ARG	O-C-N	8.26	130.82	121.32
3	M	308	SER	O-C-N	8.26	132.43	122.27
1	A	350	SER	CA-C-O	8.25	129.29	120.55
2	B	178	ILE	O-C-N	8.25	132.88	122.57
2	B	505	ASP	CA-C-O	8.25	129.17	120.42
2	B	140	SER	CA-C-O	-8.24	112.41	120.90
1	A	141	VAL	O-C-N	8.24	132.61	121.90
1	A	249	ASN	O-C-N	8.24	132.73	123.01
2	B	611	ALA	CA-C-O	-8.23	110.79	120.10
2	B	470	ALA	O-C-N	8.23	130.92	122.03
1	A	404	GLN	CA-C-N	8.23	137.26	121.54
1	A	404	GLN	C-N-CA	8.23	137.26	121.54
2	B	395	LYS	CA-C-O	-8.23	110.80	120.10
1	A	179	LYS	CA-C-O	-8.23	111.75	120.55
1	A	363	VAL	N-CA-C	8.23	124.26	113.07
1	A	436	CYS	O-C-N	-8.23	112.15	122.27
4	S	124	ASN	O-C-N	8.23	133.08	121.97
1	A	392	MET	O-C-N	8.22	133.35	122.33
3	M	49	ASP	N-CA-C	8.22	122.06	108.49
3	M	396	GLN	O-C-N	-8.22	113.65	123.27
4	S	103	GLN	CA-C-O	-8.21	109.28	119.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	223	HIS	O-C-N	-8.21	112.77	123.28
2	B	213	LEU	CA-C-O	-8.21	108.78	120.51
2	B	261	PRO	CA-N-CD	-8.20	100.52	112.00
2	B	532	ARG	CA-C-O	-8.20	110.54	119.97
2	B	392	SER	O-C-N	8.20	131.81	122.22
3	M	90	PHE	O-C-N	8.20	132.35	122.27
2	B	69	ILE	CA-C-N	-8.19	109.16	120.38
2	B	69	ILE	C-N-CA	-8.19	109.16	120.38
2	B	166	SER	CA-C-N	8.19	134.58	120.58
2	B	166	SER	C-N-CA	8.19	134.58	120.58
2	B	95	THR	CA-C-O	-8.19	111.15	120.24
2	B	398	ILE	O-C-N	8.19	130.70	121.94
1	A	185	LEU	CA-C-O	-8.18	109.59	119.49
2	B	465	ALA	O-C-N	8.18	130.79	122.12
1	A	129	LYS	CA-C-O	-8.18	112.48	120.90
2	B	243	TRP	O-C-N	8.18	134.14	122.20
1	A	573	GLU	CA-C-O	8.17	129.40	120.82
1	A	125	THR	O-C-N	8.17	133.46	122.59
1	A	580	GLU	O-C-N	8.17	131.47	122.15
4	S	33	GLU	O-C-N	8.17	133.65	122.46
2	B	84	ALA	O-C-N	8.16	130.91	122.09
2	B	437	SER	CA-C-O	-8.16	110.58	119.97
3	M	88	ASP	O-C-N	8.16	131.77	122.22
2	B	512	VAL	O-C-N	8.16	132.51	121.90
3	M	308	SER	CA-C-O	-8.16	110.58	119.97
1	A	81	GLY	CA-C-N	8.16	137.08	122.64
1	A	81	GLY	C-N-CA	8.16	137.08	122.64
1	A	185	LEU	O-C-N	8.16	132.99	122.39
4	S	31	LEU	CA-C-O	-8.16	110.88	120.10
2	B	63	MET	O-C-N	8.15	133.63	122.46
2	B	75	ASP	N-CA-C	8.15	122.79	113.01
2	B	358	MET	CA-C-O	-8.15	110.89	120.10
2	B	236	ILE	O-C-N	8.15	129.77	121.87
2	B	447	GLU	CA-C-O	-8.15	110.89	120.10
4	S	105	PHE	CA-C-O	-8.14	110.18	119.79
1	A	87	CYS	O-C-N	8.14	133.40	122.49
1	A	319	LEU	CA-C-N	-8.14	109.37	120.28
1	A	319	LEU	C-N-CA	-8.14	109.37	120.28
1	A	479	ASN	O-C-N	8.13	131.74	122.22
1	A	559	PHE	CA-C-O	-8.13	108.88	120.51
1	A	182	ILE	CA-C-O	-8.13	111.29	120.96
3	M	124	ILE	CA-C-O	-8.13	111.28	120.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	612	ARG	O-C-N	8.13	132.80	122.23
2	B	158	VAL	O-C-N	8.12	132.73	122.57
1	A	583	GLU	CA-C-O	-8.12	110.93	120.10
2	B	106	LEU	CA-C-O	-8.12	111.95	120.55
1	A	580	GLU	CA-C-O	-8.11	111.82	120.42
4	S	145	ASN	CA-C-O	-8.11	111.17	120.58
3	M	89	CYS	O-C-N	8.11	133.65	122.46
2	B	189	HIS	N-CA-C	8.11	122.27	112.38
2	B	422	ALA	N-CA-C	-8.11	99.87	110.33
1	A	98	ASN	CA-C-O	-8.10	112.96	121.55
3	M	460	ILE	CA-C-N	8.10	137.49	121.53
3	M	460	ILE	C-N-CA	8.10	137.49	121.53
1	A	553	LEU	O-C-N	8.10	132.23	122.27
1	A	170	LEU	N-CA-C	-8.10	101.82	112.34
1	A	593	THR	CA-C-O	-8.10	111.36	120.43
4	S	136	VAL	CA-C-N	8.10	132.24	120.82
4	S	136	VAL	C-N-CA	8.10	132.24	120.82
2	B	322	CYS	O-C-N	8.09	132.22	122.27
2	B	462	ASN	CA-C-N	-8.09	106.55	120.95
2	B	462	ASN	C-N-CA	-8.09	106.55	120.95
1	A	206	LYS	CA-C-N	8.09	132.19	120.38
1	A	206	LYS	C-N-CA	8.09	132.19	120.38
1	A	389	GLN	CA-C-O	-8.09	110.96	120.10
2	B	412	PHE	O-C-N	8.08	133.34	122.59
4	S	87	PHE	O-C-N	-8.08	113.86	123.31
1	A	138	ASN	O-C-N	8.07	133.82	122.68
2	B	196	LEU	CA-C-O	-8.07	108.97	120.51
1	A	139	ASP	O-C-N	8.06	133.23	122.43
3	M	112	LYS	CA-C-O	-8.06	112.39	120.70
2	B	510	GLY	CA-C-N	8.06	133.84	120.62
2	B	510	GLY	C-N-CA	8.06	133.84	120.62
1	A	147	LEU	CA-C-O	-8.06	110.28	119.79
4	S	95	GLU	O-C-N	8.06	130.66	122.12
2	B	586	SER	O-C-N	8.05	131.95	122.20
2	B	207	VAL	CA-C-O	-8.05	111.01	120.83
2	B	230	PHE	O-C-N	-8.05	112.37	122.27
2	B	209	SER	O-C-N	8.05	132.79	122.33
3	M	284	SER	CA-C-O	8.05	131.18	120.16
2	B	237	ILE	CA-C-O	8.04	129.42	121.05
2	B	62	ALA	O-C-N	8.04	133.21	122.43
2	B	606	ASP	O-C-N	8.04	130.64	122.12
2	B	78	ASP	O-C-N	-8.04	111.90	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	458	ALA	CA-C-O	-8.04	111.02	120.10
2	B	523	PHE	CA-C-N	-8.04	107.07	121.14
2	B	523	PHE	C-N-CA	-8.04	107.07	121.14
1	A	328	PRO	CA-C-O	8.03	131.02	118.89
2	B	67	ILE	O-C-N	8.03	132.82	121.82
2	B	463	LEU	N-CA-C	8.03	120.69	110.33
2	B	585	GLY	N-CA-C	-8.03	94.14	113.18
4	S	76	ILE	O-C-N	-8.03	114.11	123.03
4	S	101	LEU	O-C-N	8.03	133.54	122.46
1	A	340	LYS	O-C-N	8.02	130.63	122.12
1	A	109	ALA	O-C-N	8.02	131.88	122.17
1	A	350	SER	CA-C-N	-8.02	107.32	120.72
1	A	350	SER	C-N-CA	-8.02	107.32	120.72
1	A	125	THR	CA-C-O	-8.02	109.04	120.51
2	B	594	ALA	CA-C-O	-8.02	111.92	120.42
4	S	141	VAL	N-CA-C	-8.02	97.03	108.58
2	B	56	SER	CA-C-O	8.02	129.47	119.05
3	M	91	THR	O-C-N	8.02	133.07	122.33
2	B	476	ARG	O-C-N	8.01	132.12	122.27
1	A	462	GLN	CA-C-O	8.00	129.22	119.38
4	S	28	GLN	CA-C-O	-8.00	111.06	120.10
2	B	545	ARG	CA-C-O	-8.00	110.35	119.79
1	A	183	THR	O-C-N	8.00	130.31	122.07
2	B	170	ARG	CA-C-O	7.99	129.15	120.20
2	B	529	VAL	O-C-N	7.99	132.29	121.90
1	A	277	LYS	CA-C-O	-7.99	113.11	122.13
1	A	332	TYR	O-C-N	7.99	133.21	122.59
1	A	211	ASP	O-C-N	7.98	132.38	123.04
1	A	311	THR	CA-C-O	-7.98	112.48	120.70
1	A	447	PHE	N-CA-C	-7.98	102.66	111.36
2	B	115	LEU	CA-C-O	-7.98	112.09	120.55
4	S	145	ASN	O-C-N	7.98	133.02	122.96
1	A	451	ASN	CA-C-O	-7.98	112.09	120.55
3	M	387	GLU	CA-C-N	-7.98	110.28	122.09
3	M	387	GLU	C-N-CA	-7.98	110.28	122.09
1	A	163	ALA	O-C-N	-7.98	113.06	122.15
2	B	192	LEU	CA-C-O	-7.97	109.11	120.51
4	S	144	THR	CA-C-O	7.97	127.62	118.77
4	S	107	GLU	O-C-N	7.97	132.75	122.39
2	B	124	GLN	CA-C-O	-7.97	112.49	120.70
2	B	449	HIS	O-C-N	7.97	132.07	122.27
1	A	239	LEU	N-CA-C	-7.96	102.47	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	583	GLU	O-C-N	7.96	131.53	122.22
1	A	612	GLU	O-C-N	7.96	133.09	122.43
2	B	392	SER	CA-C-O	-7.96	111.11	120.10
3	M	98	ARG	CA-C-O	-7.96	111.99	120.42
2	B	375	LEU	CA-C-N	-7.96	112.02	119.82
2	B	375	LEU	C-N-CA	-7.96	112.02	119.82
4	S	80	TYR	O-C-N	-7.95	112.62	123.12
2	B	195	ILE	O-C-N	7.95	132.50	122.57
3	M	121	ILE	CA-C-O	-7.95	111.67	120.25
2	B	280	PRO	N-CA-C	-7.94	98.75	111.38
1	A	69	ASN	O-C-N	7.94	130.54	122.12
1	A	181	ALA	O-C-N	7.94	131.25	122.20
2	B	248	LEU	CA-C-O	-7.94	108.72	119.05
1	A	240	LEU	CA-C-O	7.94	129.10	119.97
1	A	134	TYR	CA-C-N	-7.93	108.80	120.38
1	A	134	TYR	C-N-CA	-7.93	108.80	120.38
2	B	146	LYS	CA-C-O	-7.93	113.17	122.13
2	B	59	VAL	O-C-N	7.92	132.80	122.26
2	B	121	ASN	CA-C-O	-7.92	112.42	120.90
3	M	373	ALA	CA-C-N	-7.92	110.16	122.59
3	M	373	ALA	C-N-CA	-7.92	110.16	122.59
1	A	100	LEU	CA-C-O	7.92	129.07	119.97
2	B	55	ASN	O-C-N	7.91	132.24	123.22
2	B	85	ASP	O-C-N	7.91	130.50	122.12
2	B	139	LEU	O-C-N	7.90	133.37	122.46
2	B	504	ALA	CA-C-N	7.90	131.51	120.29
2	B	504	ALA	C-N-CA	7.90	131.51	120.29
1	A	397	ASP	O-C-N	-7.90	114.05	122.19
2	B	338	LYS	CA-C-O	-7.90	112.10	120.63
2	B	310	ILE	N-CA-C	-7.90	102.39	111.00
1	A	137	ASN	N-CA-C	7.88	122.72	113.18
2	B	244	SER	O-C-N	7.88	133.34	122.46
2	B	529	VAL	CA-C-O	-7.88	111.58	120.96
1	A	278	ILE	CA-C-O	-7.88	107.40	120.80
2	B	464	SER	O-C-N	7.87	132.49	122.81
3	M	95	THR	O-C-N	7.87	130.46	122.12
2	B	117	LEU	O-C-N	7.87	131.69	122.17
2	B	568	VAL	O-C-N	7.87	132.40	122.57
1	A	260	PHE	CA-C-O	7.86	129.12	120.63
2	B	238	LYS	CA-C-N	7.86	136.68	122.06
2	B	238	LYS	C-N-CA	7.86	136.68	122.06
3	M	339	GLU	CA-C-O	7.86	128.66	120.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	120	ILE	CA-C-O	-7.86	112.06	121.18
4	S	55	PRO	CA-N-CD	-7.86	101.00	112.00
2	B	81	LEU	CA-C-N	-7.86	105.62	121.18
2	B	81	LEU	C-N-CA	-7.86	105.62	121.18
2	B	234	CYS	O-C-N	7.86	130.45	122.12
3	M	85	GLY	N-CA-C	-7.85	96.33	112.34
1	A	427	LYS	O-C-N	7.85	131.40	122.22
1	A	413	SER	CA-C-N	-7.84	107.41	121.14
1	A	413	SER	C-N-CA	-7.84	107.41	121.14
2	B	241	ASP	O-C-N	7.84	131.84	123.06
3	M	394	GLN	N-CA-C	7.84	122.02	108.76
2	B	159	LYS	O-C-N	7.84	130.15	122.07
3	M	237	THR	CA-C-N	-7.84	106.05	121.41
3	M	237	THR	C-N-CA	-7.84	106.05	121.41
3	M	324	SER	CA-C-N	-7.84	111.72	122.30
3	M	324	SER	C-N-CA	-7.84	111.72	122.30
2	B	572	GLU	O-C-N	7.84	133.87	122.43
3	M	85	GLY	CA-C-O	-7.84	110.31	121.52
1	A	147	LEU	O-C-N	7.84	132.83	122.33
2	B	74	ASP	CA-C-N	7.84	136.70	121.18
2	B	74	ASP	C-N-CA	7.84	136.70	121.18
1	A	267	GLU	O-C-N	7.83	130.33	121.32
2	B	87	VAL	N-CA-C	-7.83	103.06	110.42
2	B	167	ALA	CA-C-O	-7.83	111.54	120.24
2	B	172	GLU	CA-C-N	-7.83	107.64	120.64
2	B	172	GLU	C-N-CA	-7.83	107.64	120.64
2	B	610	ARG	CA-C-O	-7.83	112.12	120.42
1	A	106	GLY	N-CA-C	-7.83	103.17	112.64
2	B	514	LEU	O-C-N	7.83	130.23	122.09
2	B	394	TRP	O-C-N	7.82	131.89	122.27
2	B	525	ILE	O-C-N	7.82	132.34	122.57
1	A	555	LEU	CA-C-O	-7.81	109.33	120.51
1	A	553	LEU	CA-C-O	-7.81	110.98	119.97
2	B	532	ARG	O-C-N	7.81	131.88	122.27
1	A	110	ALA	O-C-N	-7.81	113.30	122.20
3	M	220	GLU	CA-C-N	-7.81	112.69	122.84
3	M	220	GLU	C-N-CA	-7.81	112.69	122.84
1	A	489	GLU	CA-C-O	-7.81	112.27	120.55
1	A	64	LEU	CA-C-N	-7.81	107.23	120.58
1	A	64	LEU	C-N-CA	-7.81	107.23	120.58
2	B	166	SER	O-C-N	7.81	132.42	122.89
1	A	265	GLN	CA-C-N	7.81	135.75	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	265	GLN	C-N-CA	7.81	135.75	121.70
4	S	32	LEU	O-C-N	7.80	133.23	122.46
4	S	120	ASP	CA-C-O	-7.80	109.78	119.38
1	A	260	PHE	N-CA-C	-7.80	101.89	111.33
1	A	334	SER	O-C-N	7.80	131.61	122.17
1	A	466	ASP	O-C-N	7.80	133.54	123.24
2	B	521	ILE	N-CA-C	-7.80	93.12	109.34
4	S	102	ILE	CA-C-O	-7.80	111.32	120.83
1	A	85	ALA	O-C-N	7.79	131.03	122.15
4	S	105	PHE	O-C-N	7.79	132.77	122.33
1	A	276	PRO	N-CA-C	-7.79	103.36	114.18
1	A	588	LEU	N-CA-C	7.79	122.45	113.19
2	B	54	ARG	CA-C-N	7.78	133.16	122.19
2	B	54	ARG	C-N-CA	7.78	133.16	122.19
1	A	98	ASN	O-C-N	-7.78	113.24	122.81
1	A	455	MET	O-C-N	7.78	131.32	122.22
3	M	310	VAL	CA-C-O	7.77	129.09	120.85
2	B	135	ARG	O-C-N	7.77	132.92	122.59
1	A	331	ARG	O-C-N	7.76	132.92	122.59
2	B	193	LEU	O-C-N	7.76	132.92	122.59
2	B	365	PHE	CA-C-O	-7.76	109.41	120.51
1	A	572	PHE	O-C-N	7.76	131.30	122.22
1	A	201	ASP	CA-C-O	-7.76	111.51	120.20
3	M	41	LEU	CA-C-O	-7.76	110.54	120.00
1	A	467	LYS	CA-C-N	-7.75	108.20	120.60
1	A	467	LYS	C-N-CA	-7.75	108.20	120.60
2	B	590	GLN	CA-C-O	-7.75	109.43	120.51
3	M	363	ASN	CA-C-N	-7.75	113.37	122.36
3	M	363	ASN	C-N-CA	-7.75	113.37	122.36
2	B	203	THR	N-CA-C	7.75	122.86	113.41
1	A	282	MET	CA-C-N	-7.75	109.77	120.38
1	A	282	MET	C-N-CA	-7.75	109.77	120.38
2	B	477	MET	O-C-N	7.74	131.54	122.17
1	A	305	GLU	CA-C-O	-7.74	109.45	120.51
2	B	121	ASN	O-C-N	7.73	130.13	122.09
3	M	40	GLN	CA-C-O	-7.73	111.36	120.10
1	A	213	SER	CA-C-N	7.73	131.39	120.42
1	A	213	SER	C-N-CA	7.73	131.39	120.42
2	B	438	ARG	CA-C-O	-7.72	110.00	119.18
3	M	324	SER	CA-C-O	7.72	128.84	120.58
1	A	165	ASP	CA-C-O	-7.71	111.68	120.24
2	B	482	ASN	CA-C-O	-7.71	109.59	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	S	120	ASP	O-C-N	7.71	132.76	122.43
4	S	154	ASP	O-C-N	7.70	131.74	122.27
2	B	432	ALA	O-C-N	7.69	132.82	122.59
1	A	223	CYS	O-C-N	7.69	130.40	122.09
1	A	128	LEU	CA-C-O	-7.69	110.19	119.49
2	B	541	GLY	O-C-N	7.68	129.45	121.77
2	B	608	ARG	O-C-N	7.68	130.91	122.15
1	A	249	ASN	CA-C-N	7.68	131.20	120.29
1	A	249	ASN	C-N-CA	7.68	131.20	120.29
2	B	46	GLN	O-C-N	7.68	134.70	122.41
2	B	173	VAL	CA-C-O	-7.68	110.33	119.85
1	A	314	ALA	O-C-N	7.67	131.20	122.22
2	B	473	ASN	CA-C-O	-7.67	112.28	120.42
1	A	87	CYS	CA-C-O	-7.67	110.71	119.14
1	A	165	ASP	O-C-N	7.67	132.19	122.23
2	B	457	HIS	CA-C-N	-7.66	107.91	120.71
2	B	457	HIS	C-N-CA	-7.66	107.91	120.71
1	A	470	GLY	O-C-N	7.66	131.15	122.34
2	B	444	THR	CA-C-N	-7.65	109.27	120.28
2	B	444	THR	C-N-CA	-7.65	109.27	120.28
2	B	177	ILE	CA-C-O	-7.65	111.22	120.78
2	B	157	THR	CA-C-O	-7.65	109.58	120.51
2	B	60	ARG	CA-C-O	-7.65	109.58	120.51
2	B	583	PHE	CA-C-N	7.63	130.82	120.44
2	B	583	PHE	C-N-CA	7.63	130.82	120.44
3	M	120	ARG	O-C-N	7.63	132.31	122.39
4	S	152	SER	CA-C-O	-7.63	112.46	120.55
1	A	340	LYS	CA-C-O	-7.62	112.47	120.55
4	S	81	ALA	N-CA-C	-7.62	94.56	110.80
1	A	494	ASN	CA-C-O	-7.62	112.34	120.42
1	A	215	VAL	CA-C-N	-7.61	110.54	120.44
1	A	215	VAL	C-N-CA	-7.61	110.54	120.44
2	B	496	LEU	O-C-N	7.61	131.64	122.27
2	B	419	VAL	CA-C-N	-7.61	109.96	120.38
2	B	419	VAL	C-N-CA	-7.61	109.96	120.38
3	M	121	ILE	O-C-N	7.61	132.24	121.82
2	B	452	LYS	CA-C-O	-7.60	111.68	120.20
1	A	599	ARG	O-C-N	7.60	130.82	122.15
2	B	176	ALA	CA-C-O	-7.60	109.64	120.51
2	B	413	LYS	CA-C-O	-7.60	111.51	120.10
1	A	471	SER	CA-C-O	-7.60	112.49	120.55
2	B	48	VAL	O-C-N	7.60	132.07	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	102	HIS	N-CA-C	-7.60	102.94	111.07
1	A	265	GLN	N-CA-CB	7.59	122.69	110.16
2	B	457	HIS	O-C-N	-7.59	113.50	122.15
3	M	113	LYS	CA-C-O	-7.59	111.24	119.97
2	B	385	PRO	N-CA-C	7.59	124.08	113.53
2	B	214	ALA	O-C-N	7.58	132.67	122.59
2	B	436	LEU	O-C-N	7.58	132.67	122.59
1	A	311	THR	N-CA-C	-7.58	102.96	111.14
1	A	588	LEU	O-C-N	-7.57	110.29	122.41
2	B	45	GLN	O-C-N	7.57	130.15	122.12
3	M	326	HIS	CA-C-O	7.57	128.42	120.54
1	A	284	SER	N-CA-C	7.57	122.16	113.15
1	A	127	LEU	O-C-N	7.57	132.52	122.30
2	B	89	ASN	CA-C-N	7.57	133.50	120.86
2	B	89	ASN	C-N-CA	7.57	133.50	120.86
2	B	155	LEU	O-C-N	7.56	132.65	122.59
4	S	30	LEU	CA-C-O	-7.56	111.85	120.24
1	A	203	PHE	O-C-N	7.56	130.13	122.12
2	B	140	SER	O-C-N	7.55	130.19	122.03
2	B	157	THR	O-C-N	7.55	132.64	122.59
1	A	239	LEU	CA-C-N	-7.55	108.83	120.31
1	A	239	LEU	C-N-CA	-7.55	108.83	120.31
1	A	219	VAL	N-CA-C	7.55	117.61	110.74
2	B	175	LEU	CA-C-O	-7.55	112.89	120.82
2	B	446	TRP	O-C-N	7.55	132.31	122.42
1	A	471	SER	N-CA-C	7.54	119.50	111.28
2	B	593	ASN	O-C-N	7.54	132.62	122.59
4	S	140	MET	CA-C-N	-7.54	112.65	122.37
4	S	140	MET	C-N-CA	-7.54	112.65	122.37
2	B	212	VAL	CA-C-N	-7.54	107.15	121.54
2	B	212	VAL	C-N-CA	-7.54	107.15	121.54
2	B	136	CYS	O-C-N	7.53	132.61	122.59
2	B	248	LEU	O-C-N	7.53	132.85	122.46
3	M	123	LEU	CA-C-O	-7.53	110.12	119.38
1	A	325	SER	CA-C-N	7.53	135.92	121.54
1	A	325	SER	C-N-CA	7.53	135.92	121.54
1	A	77	LEU	O-C-N	7.53	130.73	122.15
1	A	258	LYS	CA-C-O	-7.53	112.57	120.55
3	M	386	PHE	CA-C-O	7.53	130.05	120.57
2	B	530	LEU	O-C-N	7.52	132.17	122.39
2	B	80	GLN	N-CA-C	7.51	120.42	111.33
3	M	86	PRO	O-C-N	7.51	132.78	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	337	THR	O-C-N	7.51	132.58	122.59
4	S	156	LEU	CA-C-O	-7.51	111.61	120.10
2	B	320	SER	CA-C-O	-7.50	109.78	120.51
2	B	585	GLY	O-C-N	7.50	132.45	122.70
1	A	421	PRO	O-C-N	7.50	132.76	122.64
3	M	130	GLU	N-CA-C	-7.49	94.84	110.80
1	A	470	GLY	CA-C-O	-7.49	112.08	120.09
2	B	79	VAL	O-C-N	7.49	131.93	122.57
1	A	499	ILE	CA-C-N	-7.48	106.99	121.58
1	A	499	ILE	C-N-CA	-7.48	106.99	121.58
1	A	448	GLU	CA-C-N	7.48	135.82	121.54
1	A	448	GLU	C-N-CA	7.48	135.82	121.54
2	B	508	ARG	CA-C-N	-7.48	110.46	120.63
2	B	508	ARG	C-N-CA	-7.48	110.46	120.63
2	B	398	ILE	CA-C-O	-7.47	112.52	121.18
1	A	557	LYS	O-C-N	7.47	132.44	122.43
3	M	16	PHE	O-C-N	-7.46	114.06	123.24
2	B	91	THR	CA-C-N	7.46	133.48	120.87
2	B	91	THR	C-N-CA	7.46	133.48	120.87
2	B	591	MET	O-C-N	7.45	133.23	122.28
2	B	579	PRO	N-CA-C	7.45	127.82	112.47
4	S	149	ILE	CA-C-O	-7.45	112.52	120.64
1	A	282	MET	CA-C-O	7.45	128.58	119.79
3	M	237	THR	O-C-N	-7.45	113.58	122.96
2	B	414	GLU	O-C-N	7.45	132.93	122.36
2	B	271	GLU	CA-C-N	-7.44	107.83	120.77
2	B	271	GLU	C-N-CA	-7.44	107.83	120.77
2	B	173	VAL	O-C-N	7.43	131.79	122.05
2	B	196	LEU	O-C-N	7.43	132.47	122.59
2	B	226	LEU	CA-C-O	-7.43	109.89	120.51
4	S	167	ILE	CB-CA-C	-7.43	102.58	111.94
2	B	87	VAL	CA-C-N	-7.42	110.79	120.44
2	B	87	VAL	C-N-CA	-7.42	110.79	120.44
1	A	88	ASN	O-C-N	-7.42	113.69	122.15
1	A	487	MET	CA-C-N	-7.42	107.89	120.58
1	A	487	MET	C-N-CA	-7.42	107.89	120.58
1	A	576	MET	O-C-N	7.42	132.27	122.33
2	B	428	VAL	CA-C-O	-7.41	112.25	120.25
1	A	606	PHE	CA-C-O	-7.41	112.69	120.55
2	B	312	SER	N-CA-C	-7.40	99.61	110.42
1	A	261	THR	CA-C-O	-7.40	112.70	120.55
2	B	188	TYR	O-C-N	7.40	131.13	122.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	411	GLU	CA-C-N	7.39	133.22	120.58
1	A	411	GLU	C-N-CA	7.39	133.22	120.58
2	B	195	ILE	CA-C-O	-7.39	111.54	120.78
2	B	59	VAL	CA-C-O	-7.39	110.27	119.43
1	A	231	GLN	CA-C-N	7.38	128.04	119.47
1	A	231	GLN	C-N-CA	7.38	128.04	119.47
4	S	83	LEU	CA-C-N	-7.38	111.22	122.81
4	S	83	LEU	C-N-CA	-7.38	111.22	122.81
3	M	387	GLU	O-C-N	-7.38	113.84	123.21
3	M	271	SER	CA-C-N	-7.38	110.99	122.87
3	M	271	SER	C-N-CA	-7.38	110.99	122.87
4	S	86	THR	O-C-N	-7.38	113.84	123.21
2	B	390	VAL	O-C-N	7.38	130.13	121.80
2	B	33	SER	O-C-N	7.37	132.08	122.42
2	B	461	HIS	N-CA-C	7.37	121.58	112.59
3	M	477	GLY	N-CA-C	7.37	122.22	110.87
2	B	533	LEU	CA-C-O	-7.37	112.74	120.55
2	B	189	HIS	O-C-N	7.35	131.95	122.39
2	B	387	ASP	N-CA-C	7.35	126.06	109.81
3	M	364	VAL	N-CA-C	-7.35	106.14	113.20
1	A	89	PHE	O-C-N	7.35	129.91	122.12
1	A	280	GLU	O-C-N	7.35	130.82	122.22
1	A	236	LEU	CA-C-O	-7.34	110.78	119.15
1	A	595	GLU	CA-C-O	-7.34	113.34	120.90
2	B	136	CYS	CA-C-O	-7.34	110.01	120.51
2	B	418	TYR	O-C-N	-7.34	113.29	122.17
3	M	79	SER	CA-C-N	7.34	132.35	120.60
3	M	79	SER	C-N-CA	7.34	132.35	120.60
2	B	252	LEU	CA-C-O	-7.34	109.85	119.10
1	A	327	ASP	CA-C-O	-7.33	111.11	119.32
4	S	27	LYS	CA-C-O	-7.33	110.36	119.38
4	S	78	LYS	O-C-N	-7.33	114.32	123.27
1	A	352	PHE	O-C-N	7.33	131.58	122.20
2	B	316	THR	O-C-N	7.33	129.89	122.12
1	A	386	ALA	CA-C-O	-7.33	112.11	120.24
1	A	594	PHE	O-C-N	7.32	130.54	122.20
2	B	590	GLN	O-C-N	7.32	132.33	122.59
1	A	160	ARG	CA-C-O	-7.32	112.79	120.55
1	A	261	THR	O-C-N	7.32	129.88	122.12
3	M	230	LYS	CA-C-O	-7.32	112.58	121.28
2	B	410	GLU	CA-C-O	-7.31	111.56	119.97
1	A	502	ASP	O-C-N	7.31	130.77	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	320	SER	O-C-N	7.31	132.31	122.59
2	B	508	ARG	N-CA-C	-7.31	103.31	111.71
2	B	274	PRO	N-CA-C	-7.30	97.43	112.47
2	B	434	LYS	CA-C-O	-7.30	110.40	119.38
2	B	424	PHE	CA-C-N	7.30	127.73	119.92
2	B	424	PHE	C-N-CA	7.30	127.73	119.92
2	B	232	ARG	O-C-N	7.29	132.29	122.59
2	B	364	HIS	CA-C-O	-7.29	110.09	120.51
3	M	55	MET	O-C-N	-7.29	114.24	122.91
2	B	509	ALA	O-C-N	7.29	129.90	122.03
1	A	374	LEU	CA-C-N	7.28	129.99	120.60
1	A	374	LEU	C-N-CA	7.28	129.99	120.60
2	B	568	VAL	CA-C-O	7.28	129.88	120.78
2	B	34	SER	O-C-N	7.27	130.72	122.22
4	S	89	VAL	CA-C-O	7.27	130.32	121.75
1	A	381	GLU	N-CA-C	7.25	119.26	111.36
1	A	130	LYS	O-C-N	7.25	132.23	122.59
1	A	365	VAL	CA-C-O	7.25	128.32	120.57
4	S	126	GLN	CA-C-O	-7.25	112.80	120.63
4	S	34	GLN	O-C-N	7.24	131.65	122.23
1	A	522	PHE	N-CA-C	7.24	122.22	112.88
2	B	108	PHE	CA-C-N	-7.24	109.85	120.28
2	B	108	PHE	C-N-CA	-7.24	109.85	120.28
2	B	47	LEU	CA-C-O	-7.23	111.24	119.98
2	B	567	GLN	N-CA-C	7.23	122.50	112.45
1	A	382	ASP	O-C-N	7.21	131.14	122.27
2	B	131	ASN	O-C-N	7.21	132.19	122.82
1	A	178	ARG	CA-C-O	-7.21	110.52	119.38
2	B	307	ASN	CA-C-O	-7.21	113.43	121.00
1	A	320	HIS	CA-C-N	-7.19	109.88	120.38
1	A	320	HIS	C-N-CA	-7.19	109.88	120.38
4	S	104	THR	CA-C-O	-7.18	111.19	119.60
2	B	113	PRO	CA-C-N	-7.18	110.67	120.44
2	B	113	PRO	C-N-CA	-7.18	110.67	120.44
2	B	120	ILE	O-C-N	7.18	131.32	121.84
1	A	380	ASP	O-C-N	7.18	131.60	123.27
2	B	133	GLU	O-C-N	7.18	131.95	122.33
1	A	368	ARG	CA-C-O	-7.18	113.22	120.90
3	M	461	GLY	N-CA-C	-7.17	105.33	115.30
1	A	99	LYS	CA-C-N	7.17	131.21	120.31
1	A	99	LYS	C-N-CA	7.17	131.21	120.31
1	A	115	TYR	N-CA-C	-7.17	100.39	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	62	ALA	CA-C-O	-7.17	110.57	119.38
1	A	202	LYS	O-C-N	7.16	132.80	122.28
2	B	241	ASP	CA-C-O	-7.16	112.77	121.36
1	A	251	TRP	O-C-N	7.15	131.53	122.23
1	A	581	LEU	CA-C-O	-7.15	110.83	119.49
1	A	409	VAL	N-CA-C	7.15	117.83	106.32
1	A	593	THR	O-C-N	7.15	131.35	123.13
1	A	475	GLU	CA-C-O	-7.14	112.03	120.10
2	B	598	LEU	CA-C-O	-7.14	111.36	119.79
1	A	179	LYS	O-C-N	7.13	130.80	122.17
4	S	128	LEU	CA-C-O	-7.13	111.77	119.97
2	B	340	ILE	O-C-N	7.13	131.49	122.57
3	M	96	ILE	CA-C-O	-7.13	112.77	120.47
3	M	95	THR	CA-C-O	-7.13	112.99	120.55
4	S	124	ASN	CA-C-O	-7.13	112.33	121.17
2	B	122	SER	CA-C-O	-7.12	113.34	120.82
3	M	69	ILE	N-CA-C	7.12	118.09	108.11
2	B	536	ASN	CA-C-O	-7.12	111.58	119.34
2	B	591	MET	CA-C-O	-7.12	111.31	120.00
1	A	219	VAL	O-C-N	7.12	130.62	121.94
1	A	476	GLN	CA-C-O	-7.11	111.40	119.79
1	A	418	ILE	CA-C-O	-7.11	113.21	120.25
1	A	74	LEU	O-C-N	7.11	129.65	122.12
2	B	254	LYS	CA-C-O	-7.11	113.34	120.80
1	A	433	ILE	O-C-N	7.09	129.03	121.94
1	A	393	LYS	CA-C-N	-7.09	110.78	120.28
1	A	393	LYS	C-N-CA	-7.09	110.78	120.28
2	B	60	ARG	O-C-N	7.09	132.02	122.59
2	B	407	ASN	O-C-N	7.09	131.71	122.42
2	B	458	MET	CA-C-N	-7.09	108.00	121.54
2	B	458	MET	C-N-CA	-7.09	108.00	121.54
3	M	364	VAL	CA-C-N	-7.09	110.80	120.44
3	M	364	VAL	C-N-CA	-7.09	110.80	120.44
1	A	352	PHE	CA-C-O	-7.09	111.98	120.55
1	A	256	LEU	CA-C-O	-7.08	110.38	120.51
1	A	214	VAL	CA-C-N	7.08	129.62	120.56
1	A	214	VAL	C-N-CA	7.08	129.62	120.56
1	A	234	ILE	N-CA-C	-7.08	103.44	113.07
1	A	308	ASP	CA-C-O	-7.08	110.86	119.43
2	B	191	GLU	O-C-N	7.08	132.69	122.28
1	A	370	LYS	O-C-N	7.08	130.98	122.27
1	A	265	GLN	CB-CA-C	7.08	121.40	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	66	SER	CA-C-O	-7.07	112.11	120.10
2	B	176	ALA	O-C-N	7.07	132.00	122.59
2	B	179	LYS	CA-C-O	-7.07	110.41	120.51
2	B	194	ASP	O-C-N	7.07	131.99	122.59
3	M	354	ASP	N-CA-CB	7.06	120.35	109.97
2	B	94	ASP	O-C-N	7.06	131.35	123.16
3	M	457	GLY	O-C-N	7.05	130.33	122.50
1	A	109	ALA	CA-C-O	-7.05	113.00	120.55
2	B	414	GLU	CA-C-O	-7.05	111.35	119.60
2	B	422	ALA	N-CA-CB	7.05	119.88	110.29
2	B	560	ILE	CA-C-O	7.04	129.57	120.78
3	M	469	GLY	CA-C-N	-7.04	108.10	121.54
3	M	469	GLY	C-N-CA	-7.04	108.10	121.54
2	B	216	LYS	O-C-N	-7.03	113.01	122.43
2	B	545	ARG	O-C-N	7.03	131.75	122.33
1	A	95	MET	N-CA-C	-7.03	103.38	112.23
2	B	399	LEU	CA-C-N	-7.02	105.08	121.52
2	B	399	LEU	C-N-CA	-7.02	105.08	121.52
2	B	409	LYS	CA-C-O	-7.02	112.17	120.10
2	B	423	HIS	N-CA-C	-7.02	95.54	108.24
2	B	434	LYS	O-C-N	7.02	131.83	122.43
2	B	517	GLU	CA-C-N	-7.02	110.03	121.19
2	B	517	GLU	C-N-CA	-7.02	110.03	121.19
1	A	84	MET	CA-C-O	7.01	127.77	119.56
1	A	191	GLN	N-CA-C	7.01	122.01	112.68
1	A	294	SER	CA-C-O	-7.01	112.35	120.20
1	A	115	TYR	CA-C-N	7.01	134.93	121.54
1	A	115	TYR	C-N-CA	7.01	134.93	121.54
3	M	328	GLN	CA-C-N	-7.01	110.30	121.86
3	M	328	GLN	C-N-CA	-7.01	110.30	121.86
3	M	367	ALA	CB-CA-C	7.01	121.26	109.48
2	B	402	LEU	CA-C-N	7.01	130.97	120.95
2	B	402	LEU	C-N-CA	7.01	130.97	120.95
1	A	212	ILE	CA-C-O	7.01	128.04	120.47
1	A	103	LYS	CA-C-N	-7.00	109.02	120.71
1	A	103	LYS	C-N-CA	-7.00	109.02	120.71
3	M	8	THR	N-CA-C	-7.00	99.85	110.14
1	A	168	THR	CA-C-N	7.00	129.66	120.28
1	A	168	THR	C-N-CA	7.00	129.66	120.28
1	A	612	GLU	CA-C-O	-7.00	110.77	119.38
2	B	577	ASN	N-CA-CB	-6.99	101.34	111.20
2	B	135	ARG	CA-C-O	-6.98	110.53	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	587	ARG	CA-C-O	-6.98	111.95	119.97
1	A	187	LYS	O-C-N	6.97	129.51	122.12
1	A	430	ASN	CA-C-O	-6.97	112.40	120.20
2	B	185	LYS	N-CA-C	6.96	118.95	111.36
1	A	126	ASN	O-C-N	6.96	131.85	122.59
1	A	73	LYS	CA-C-O	-6.96	111.58	119.79
1	A	406	GLY	N-CA-C	-6.96	96.69	113.18
4	S	38	LEU	CA-C-O	-6.96	111.97	119.97
1	A	84	MET	N-CA-C	-6.96	104.37	112.92
2	B	33	SER	CA-C-O	-6.95	111.22	119.15
2	B	193	LEU	CA-C-O	-6.95	110.57	120.51
3	M	256	VAL	CA-C-N	-6.95	112.85	122.93
3	M	256	VAL	C-N-CA	-6.95	112.85	122.93
2	B	543	GLU	CA-C-O	-6.94	113.13	120.63
3	M	112	LYS	O-C-N	6.94	129.59	122.09
1	A	367	ILE	CA-C-O	-6.94	112.70	120.96
1	A	605	GLU	CA-C-O	-6.93	112.00	119.97
2	B	597	TYR	O-C-N	6.93	130.10	122.20
1	A	172	SER	CA-C-N	-6.92	108.37	120.97
1	A	172	SER	C-N-CA	-6.92	108.37	120.97
2	B	294	VAL	N-CA-C	-6.92	103.56	110.62
2	B	127	LEU	CA-C-N	-6.92	108.09	121.58
2	B	127	LEU	C-N-CA	-6.92	108.09	121.58
2	B	188	TYR	CA-C-O	-6.92	110.42	119.06
2	B	464	SER	CA-C-O	-6.91	114.23	121.55
2	B	487	LEU	CA-C-O	-6.90	112.30	120.10
2	B	69	ILE	O-C-N	-6.90	115.04	121.94
3	M	234	ARG	O-C-N	-6.89	114.66	122.93
2	B	525	ILE	CA-C-O	-6.89	112.17	120.78
2	B	570	GLY	CA-C-N	-6.89	111.30	120.95
2	B	570	GLY	C-N-CA	-6.89	111.30	120.95
2	B	280	PRO	CA-C-N	6.89	132.04	120.88
2	B	280	PRO	C-N-CA	6.89	132.04	120.88
2	B	388	PRO	O-C-N	6.89	131.40	122.86
2	B	82	TYR	O-C-N	-6.88	112.96	122.46
2	B	188	TYR	N-CA-C	6.88	122.58	114.04
2	B	229	HIS	N-CA-C	6.88	121.81	113.41
2	B	382	TYR	N-CA-C	-6.88	98.01	108.67
3	M	277	GLU	CA-C-O	6.88	127.66	120.30
1	A	268	PRO	O-C-N	6.87	131.92	122.64
2	B	566	ALA	CB-CA-C	6.87	120.17	109.03
1	A	530	ASN	N-CA-C	6.87	119.61	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	326	TYR	CA-C-N	-6.87	111.10	120.44
2	B	326	TYR	C-N-CA	-6.87	111.10	120.44
2	B	94	ASP	CA-C-O	-6.87	113.02	120.92
1	A	630	PRO	O-C-N	6.86	131.63	122.30
1	A	608	ARG	CA-C-O	-6.86	110.70	120.51
1	A	560	SER	O-C-N	6.86	130.70	122.27
4	S	54	PRO	O-C-N	-6.85	113.38	121.46
1	A	92	LEU	CA-C-O	-6.85	110.72	120.51
1	A	175	PRO	O-C-N	6.84	131.41	122.24
1	A	374	LEU	CA-C-O	-6.84	111.65	120.00
1	A	441	TYR	N-CA-C	-6.84	96.22	110.80
2	B	518	ILE	N-CA-C	6.84	121.90	113.00
1	A	219	VAL	CA-C-O	-6.84	112.12	121.15
2	B	448	SER	CA-C-O	-6.84	113.30	120.55
1	A	126	ASN	CA-C-O	-6.84	110.73	120.51
1	A	549	GLU	CA-C-O	-6.84	112.37	120.10
1	A	218	ALA	CA-C-N	6.83	129.21	120.88
1	A	218	ALA	C-N-CA	6.83	129.21	120.88
1	A	275	LEU	CA-C-O	6.82	124.60	117.98
4	S	35	VAL	CA-C-O	-6.82	112.26	120.78
1	A	207	LEU	N-CA-C	-6.81	103.03	111.75
2	B	408	VAL	N-CA-C	6.81	119.57	111.05
2	B	497	LEU	CA-C-O	6.81	127.76	119.31
3	M	389	SER	CA-C-O	-6.81	112.73	121.11
1	A	143	VAL	CA-C-O	-6.80	113.96	121.17
3	M	231	SER	CA-C-N	-6.80	111.08	122.64
3	M	231	SER	C-N-CA	-6.80	111.08	122.64
1	A	119	ASP	O-C-N	6.79	130.62	122.27
2	B	34	SER	N-CA-C	-6.79	103.90	111.71
2	B	153	ILE	CA-C-O	-6.78	112.30	120.78
1	A	168	THR	CA-C-O	-6.78	113.37	120.55
4	S	1	MET	CA-C-O	6.78	132.32	120.80
2	B	205	PRO	N-CA-C	-6.77	104.50	113.65
1	A	634	ASN	O-C-N	6.77	131.40	122.33
2	B	481	LYS	N-CA-C	6.77	121.77	112.90
2	B	222	HIS	N-CA-C	6.76	125.21	110.80
4	S	164	ASP	O-C-N	-6.76	113.60	122.59
1	A	342	GLY	CA-C-N	-6.76	110.55	120.28
1	A	342	GLY	C-N-CA	-6.76	110.55	120.28
1	A	625	LEU	CA-C-O	6.75	127.91	120.82
1	A	510	THR	O-C-N	6.75	129.02	122.07
1	A	424	TYR	CA-C-O	-6.74	111.16	119.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	48	ASP	N-CA-C	6.74	119.48	111.33
2	B	577	ASN	O-C-N	-6.74	115.19	121.32
2	B	245	GLN	O-C-N	6.74	132.04	122.20
3	M	89	CYS	CA-C-O	-6.74	110.96	119.31
4	S	102	ILE	N-CA-C	-6.73	105.19	111.45
3	M	260	LEU	CA-C-N	-6.72	112.14	122.62
3	M	260	LEU	C-N-CA	-6.72	112.14	122.62
1	A	220	SER	CA-C-O	-6.72	113.71	120.90
2	B	45	GLN	CA-C-O	-6.71	113.38	120.63
2	B	156	HIS	O-C-N	6.71	131.51	122.59
2	B	499	VAL	CA-C-O	6.71	128.50	121.05
2	B	401	THR	CA-C-N	6.71	134.52	122.38
2	B	401	THR	C-N-CA	6.71	134.52	122.38
2	B	200	MET	CA-C-N	-6.70	110.18	122.31
2	B	200	MET	C-N-CA	-6.70	110.18	122.31
2	B	384	PHE	N-CA-C	-6.70	101.34	109.72
2	B	214	ALA	CA-C-O	-6.70	110.93	120.51
2	B	317	VAL	N-CA-C	-6.70	102.46	111.44
3	M	225	VAL	O-C-N	6.70	131.90	122.59
1	A	297	CYS	CA-C-N	-6.69	111.30	120.46
1	A	297	CYS	C-N-CA	-6.69	111.30	120.46
2	B	118	LEU	CA-C-O	-6.69	113.80	120.82
2	B	165	PRO	CA-C-N	6.68	130.36	120.87
2	B	165	PRO	C-N-CA	6.68	130.36	120.87
2	B	432	ALA	CA-C-O	-6.68	110.96	120.51
4	S	53	THR	C-N-CD	6.67	152.36	125.00
3	M	395	GLY	CA-C-N	-6.67	113.37	122.77
3	M	395	GLY	C-N-CA	-6.67	113.37	122.77
2	B	36	THR	O-C-N	6.67	131.42	122.49
1	A	501	ASN	N-CA-C	-6.66	98.40	109.46
1	A	193	PRO	O-C-N	6.66	130.81	122.22
1	A	459	MET	O-C-N	6.66	130.23	122.17
1	A	631	SER	CA-C-N	6.66	129.09	120.44
1	A	631	SER	C-N-CA	6.66	129.09	120.44
2	B	365	PHE	O-C-N	6.65	131.43	122.59
2	B	557	SER	CA-C-O	6.64	130.01	120.51
1	A	442	SER	CA-C-N	6.64	133.97	122.56
1	A	442	SER	C-N-CA	6.64	133.97	122.56
2	B	495	ASP	CA-C-O	-6.63	112.60	120.10
4	S	42	ARG	N-CA-C	-6.63	100.66	110.48
3	M	234	ARG	CA-C-O	6.63	127.67	120.58
1	A	468	SER	CA-C-O	-6.61	111.49	119.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	177	ILE	N-CA-C	-6.61	103.80	111.00
3	M	384	GLY	CA-C-O	-6.61	115.17	121.38
3	M	117	ASN	O-C-N	6.61	131.49	122.37
3	M	421	GLY	CA-C-O	6.61	130.97	121.52
1	A	267	GLU	CA-C-O	-6.60	111.12	120.16
2	B	551	LEU	O-C-N	6.60	131.98	122.28
2	B	35	TYR	CA-C-O	-6.60	111.26	119.38
2	B	584	SER	CA-C-O	6.60	127.50	120.70
4	S	33	GLU	CA-C-O	-6.60	111.55	119.27
1	A	277	LYS	O-C-N	-6.60	115.10	122.55
2	B	438	ARG	O-C-N	6.60	131.78	122.41
4	S	104	THR	CA-C-N	6.60	131.89	120.68
4	S	104	THR	C-N-CA	6.60	131.89	120.68
3	M	400	ASP	O-C-N	6.59	130.41	122.96
4	S	107	GLU	CA-C-O	-6.59	111.52	119.49
1	A	630	PRO	CA-C-O	-6.59	109.78	119.00
2	B	55	ASN	CA-C-N	6.57	134.19	121.18
2	B	55	ASN	C-N-CA	6.57	134.19	121.18
2	B	384	PHE	CA-C-O	-6.57	114.27	119.66
1	A	101	GLN	O-C-N	6.57	129.18	122.09
3	M	46	SER	O-C-N	-6.57	113.86	122.59
2	B	399	LEU	CA-C-O	6.56	129.90	120.51
3	M	310	VAL	O-C-N	-6.56	115.07	121.83
2	B	112	ASP	CA-C-N	6.55	126.49	119.28
2	B	112	ASP	C-N-CA	6.55	126.49	119.28
1	A	469	LEU	N-CA-C	-6.55	104.14	111.28
2	B	485	LYS	CA-C-O	-6.54	111.85	119.05
2	B	145	MET	CA-C-O	-6.54	113.56	121.28
1	A	566	PHE	CA-C-N	6.54	136.82	121.52
1	A	566	PHE	C-N-CA	6.54	136.82	121.52
1	A	637	GLU	N-CA-C	-6.54	105.17	113.01
4	S	89	VAL	CA-C-N	-6.54	108.93	122.07
4	S	89	VAL	C-N-CA	-6.54	108.93	122.07
1	A	181	ALA	CA-C-O	-6.53	112.89	120.20
2	B	572	GLU	N-CA-C	6.51	121.06	113.18
3	M	316	ARG	CA-C-N	-6.51	109.10	121.54
3	M	316	ARG	C-N-CA	-6.51	109.10	121.54
1	A	276	PRO	O-C-N	-6.51	113.33	122.38
1	A	292	TYR	CA-C-O	-6.51	111.91	119.78
2	B	349	MET	CA-C-N	-6.50	111.40	121.02
2	B	349	MET	C-N-CA	-6.50	111.40	121.02
3	M	230	LYS	O-C-N	-6.50	113.70	122.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	132	GLY	CA-C-O	6.50	134.45	120.80
2	B	556	LEU	O-C-N	6.50	129.56	122.15
3	M	384	GLY	O-C-N	6.50	131.62	123.56
2	B	364	HIS	O-C-N	6.50	131.23	122.59
3	M	84	LYS	CA-C-N	6.48	132.05	121.87
3	M	84	LYS	C-N-CA	6.48	132.05	121.87
1	A	176	TYR	O-C-N	6.48	129.54	122.15
3	M	354	ASP	CB-CA-C	6.48	120.73	109.65
2	B	273	SER	CA-C-O	6.47	125.86	119.51
2	B	168	MET	O-C-N	6.47	128.97	122.12
4	S	1	MET	O-C-N	-6.47	112.65	123.00
1	A	347	ASP	CA-C-N	6.46	130.13	120.31
1	A	347	ASP	C-N-CA	6.46	130.13	120.31
3	M	400	ASP	CA-C-N	6.46	130.94	120.60
3	M	400	ASP	C-N-CA	6.46	130.94	120.60
4	S	62	GLU	N-CA-C	-6.45	104.25	111.28
1	A	130	LYS	CA-C-O	-6.44	111.30	120.51
2	B	472	VAL	N-CA-C	-6.44	104.05	110.62
1	A	230	PRO	O-C-N	6.44	130.87	122.24
2	B	453	TRP	CA-C-O	-6.44	112.56	119.97
1	A	487	MET	CA-C-O	6.44	128.02	119.59
4	S	46	PHE	O-C-N	6.44	130.66	121.97
1	A	354	GLN	O-C-N	6.43	129.75	122.22
2	B	165	PRO	N-CA-C	6.42	121.93	114.03
4	S	93	GLU	N-CA-C	-6.42	99.83	110.17
3	M	243	ILE	CA-C-N	-6.42	114.38	123.11
3	M	243	ILE	C-N-CA	-6.42	114.38	123.11
4	S	124	ASN	CA-C-N	6.42	129.71	120.79
4	S	124	ASN	C-N-CA	6.42	129.71	120.79
2	B	348	THR	CA-C-N	-6.41	109.61	120.58
2	B	348	THR	C-N-CA	-6.41	109.61	120.58
2	B	89	ASN	CA-C-O	-6.41	111.73	119.49
2	B	244	SER	N-CA-C	-6.41	105.32	113.01
1	A	614	LEU	CA-C-N	-6.40	111.20	120.29
1	A	614	LEU	C-N-CA	-6.40	111.20	120.29
2	B	577	ASN	CA-C-O	-6.40	112.67	120.74
1	A	329	ASN	CA-C-O	-6.40	113.14	120.24
1	A	351	ARG	CA-C-N	-6.40	113.07	122.86
1	A	351	ARG	C-N-CA	-6.40	113.07	122.86
2	B	377	TYR	CA-C-O	-6.39	111.72	119.32
2	B	443	SER	CA-C-N	6.39	129.13	120.44
2	B	443	SER	C-N-CA	6.39	129.13	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	311	LYS	N-CA-C	-6.39	104.40	111.36
2	B	330	SER	CB-CA-C	6.39	118.69	109.11
2	B	404	ASN	N-CA-C	-6.39	99.36	109.07
2	B	225	LEU	O-C-N	6.39	129.90	122.17
2	B	111	ASN	CA-C-N	6.38	133.42	122.06
2	B	111	ASN	C-N-CA	6.38	133.42	122.06
2	B	231	ARG	CA-C-O	-6.38	111.38	120.51
1	A	118	SER	N-CA-C	6.38	118.24	111.28
2	B	146	LYS	O-C-N	-6.38	115.34	122.55
1	A	416	ILE	C-N-CD	6.38	151.15	125.00
3	M	388	ASN	CA-C-N	-6.38	113.22	123.23
3	M	388	ASN	C-N-CA	-6.38	113.22	123.23
2	B	584	SER	CB-CA-C	-6.38	100.82	110.90
1	A	178	ARG	O-C-N	6.37	130.97	122.43
1	A	527	GLU	O-C-N	-6.37	115.47	122.09
3	M	94	GLU	CA-C-O	-6.37	113.80	120.55
2	B	69	ILE	CA-C-O	6.36	127.89	121.27
2	B	301	LEU	CA-C-O	-6.36	111.79	119.49
2	B	307	ASN	O-C-N	6.36	128.65	122.03
1	A	292	TYR	O-C-N	6.36	131.49	122.20
2	B	74	ASP	N-CA-C	-6.36	98.82	108.67
2	B	502	SER	CA-C-N	-6.36	109.40	121.54
2	B	502	SER	C-N-CA	-6.36	109.40	121.54
1	A	466	ASP	N-CA-C	-6.35	96.55	107.61
2	B	522	GLU	O-C-N	6.35	132.39	122.61
2	B	304	GLN	CA-C-O	-6.35	113.82	120.55
3	M	117	ASN	CA-C-N	6.34	133.66	121.54
3	M	117	ASN	C-N-CA	6.34	133.66	121.54
3	M	375	LYS	CA-C-N	-6.34	115.08	122.95
3	M	375	LYS	C-N-CA	-6.34	115.08	122.95
1	A	505	ASN	CA-C-N	-6.33	112.36	121.42
1	A	505	ASN	C-N-CA	-6.33	112.36	121.42
4	S	109	LEU	N-CA-C	-6.33	104.38	111.28
1	A	80	TYR	CA-C-O	-6.33	113.70	121.11
1	A	221	VAL	O-C-N	6.33	128.46	121.94
1	A	399	ASP	CA-C-O	-6.33	112.40	120.31
2	B	528	ASP	CA-C-O	-6.33	111.47	119.31
1	A	161	ASP	O-C-N	6.32	129.36	122.15
2	B	106	LEU	O-C-N	6.32	128.82	122.12
1	A	444	VAL	CB-CA-C	6.32	119.36	111.15
3	M	388	ASN	N-CA-C	6.32	120.57	109.96
1	A	199	ASN	O-C-N	6.31	130.69	122.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	420	ILE	N-CA-C	6.31	122.51	108.88
1	A	500	SER	N-CA-C	-6.31	105.55	113.18
2	B	298	ASP	CA-C-O	-6.31	113.24	120.24
2	B	383	VAL	N-CA-C	6.30	122.45	109.34
2	B	569	THR	CA-C-N	6.30	133.94	121.53
2	B	569	THR	C-N-CA	6.30	133.94	121.53
1	A	345	ASN	O-C-N	6.30	131.20	123.14
3	M	238	GLY	CA-C-N	-6.29	113.89	122.77
3	M	238	GLY	C-N-CA	-6.29	113.89	122.77
1	A	73	LYS	O-C-N	6.29	130.76	122.33
1	A	503	ASN	N-CA-C	-6.29	104.43	111.28
2	B	574	ASN	N-CA-C	-6.28	104.88	113.30
1	A	422	GLU	O-C-N	6.28	130.78	122.36
2	B	88	LYS	CA-C-O	-6.28	114.23	120.82
1	A	525	LEU	N-CA-C	-6.28	103.73	112.45
2	B	65	ARG	CA-C-O	-6.28	112.75	119.97
1	A	544	SER	O-C-N	6.27	129.94	122.79
3	M	377	LYS	N-CA-C	6.27	117.91	111.14
2	B	581	TYR	N-CA-C	-6.26	99.44	109.39
2	B	183	ALA	N-CA-C	6.25	121.05	113.17
4	S	121	LEU	CA-C-N	-6.25	113.09	120.72
4	S	121	LEU	C-N-CA	-6.25	113.09	120.72
4	S	81	ALA	CB-CA-C	6.25	122.86	110.42
1	A	83	ASP	CA-C-O	6.24	127.73	120.49
2	B	384	PHE	CA-C-N	6.24	125.98	119.05
2	B	384	PHE	C-N-CA	6.24	125.98	119.05
2	B	269	SER	N-CA-C	6.24	120.39	113.21
2	B	149	SER	CA-C-N	-6.23	112.50	122.66
2	B	149	SER	C-N-CA	-6.23	112.50	122.66
1	A	310	GLU	CA-C-O	-6.23	111.60	120.51
2	B	49	THR	CA-C-O	-6.22	111.61	120.51
2	B	559	ASP	N-CA-C	6.22	121.04	113.38
4	S	81	ALA	CA-C-N	-6.22	112.58	122.29
4	S	81	ALA	C-N-CA	-6.22	112.58	122.29
4	S	76	ILE	CA-C-O	6.21	127.22	120.57
2	B	563	PHE	O-C-N	6.21	130.33	122.19
3	M	339	GLU	CA-C-N	-6.21	114.36	123.05
3	M	339	GLU	C-N-CA	-6.21	114.36	123.05
3	M	93	LEU	O-C-N	6.21	128.79	122.09
3	M	398	ILE	O-C-N	-6.20	113.64	122.76
1	A	629	LEU	N-CA-C	-6.20	105.19	113.25
2	B	239	GLN	N-CA-C	6.20	120.84	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	259	LEU	O-C-N	6.19	128.47	122.03
3	M	57	GLY	O-C-N	-6.19	114.65	122.70
2	B	78	ASP	CA-C-O	6.19	129.36	120.51
1	A	259	LEU	CA-C-O	-6.18	114.51	121.00
1	A	170	LEU	CA-C-N	-6.18	111.93	122.56
1	A	170	LEU	C-N-CA	-6.18	111.93	122.56
1	A	534	LYS	N-CA-CB	6.18	119.15	109.69
2	B	232	ARG	CA-C-O	-6.18	111.67	120.51
1	A	463	ASP	CA-C-N	6.18	133.09	121.97
1	A	463	ASP	C-N-CA	6.18	133.09	121.97
1	A	447	PHE	CA-C-O	-6.17	113.87	120.42
3	M	331	LEU	N-CA-C	-6.17	97.65	110.80
3	M	322	LEU	CA-C-O	6.17	126.32	120.09
2	B	124	GLN	O-C-N	6.17	128.76	122.09
2	B	145	MET	O-C-N	-6.17	116.00	123.10
2	B	114	ASN	O-C-N	6.17	128.75	122.09
1	A	411	GLU	N-CA-C	6.16	120.53	112.89
1	A	620	GLY	O-C-N	6.16	130.74	122.48
3	M	86	PRO	CA-C-O	-6.16	109.38	120.60
2	B	496	LEU	CA-C-O	-6.16	112.89	119.97
4	S	51	LEU	CA-C-O	-6.16	113.87	120.46
2	B	96	LYS	CA-C-O	-6.15	114.03	120.55
1	A	360	LEU	CA-C-N	-6.15	111.25	122.38
1	A	360	LEU	C-N-CA	-6.15	111.25	122.38
1	A	576	MET	CA-C-O	-6.14	112.54	119.79
1	A	490	VAL	CA-C-O	-6.14	114.34	120.85
2	B	585	GLY	CA-C-O	-6.14	109.89	120.57
2	B	239	GLN	CA-C-N	6.14	135.78	123.20
2	B	239	GLN	C-N-CA	6.14	135.78	123.20
1	A	459	MET	CA-C-O	-6.13	113.99	120.55
2	B	399	LEU	O-C-N	-6.13	114.44	122.59
3	M	95	THR	N-CA-C	-6.12	104.60	111.28
2	B	220	ALA	CB-CA-C	6.12	121.00	110.84
1	A	449	TRP	CA-C-O	-6.12	111.76	120.51
1	A	629	LEU	C-N-CD	6.12	150.08	125.00
3	M	226	PHE	CA-C-N	-6.11	114.38	123.00
3	M	226	PHE	C-N-CA	-6.11	114.38	123.00
1	A	98	ASN	N-CA-CB	6.11	119.02	110.04
4	S	100	ASP	N-CA-C	6.11	118.91	111.82
2	B	104	TYR	CA-C-O	-6.10	111.79	120.51
3	M	361	GLN	CA-C-N	-6.10	114.11	123.14
3	M	361	GLN	C-N-CA	-6.10	114.11	123.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	567	GLN	N-CA-C	-6.10	105.94	113.19
3	M	55	MET	N-CA-C	-6.10	103.05	111.28
3	M	227	GLU	CA-C-N	-6.09	112.47	121.24
3	M	227	GLU	C-N-CA	-6.09	112.47	121.24
1	A	80	TYR	N-CA-CB	6.09	122.46	111.37
2	B	562	ASN	O-C-N	6.09	130.80	122.46
1	A	331	ARG	CA-C-O	-6.09	111.81	120.51
2	B	253	ILE	O-C-N	6.08	133.47	121.91
1	A	589	SER	N-CA-C	-6.08	105.72	113.01
2	B	462	ASN	N-CA-C	-6.07	103.04	111.30
1	A	586	GLU	N-CA-C	-6.07	104.78	111.82
3	M	273	HIS	CA-C-O	-6.07	114.83	121.87
1	A	585	PHE	CA-C-O	-6.07	112.15	119.49
4	S	34	GLN	CA-C-O	-6.06	113.51	120.24
1	A	304	LEU	N-CA-C	6.06	117.89	111.28
2	B	298	ASP	O-C-N	6.06	130.10	122.23
1	A	144	GLY	O-C-N	6.04	130.56	122.70
3	M	371	GLU	CA-C-N	-6.04	111.09	121.97
3	M	371	GLU	C-N-CA	-6.04	111.09	121.97
1	A	262	ASN	CA-C-N	-6.04	111.58	120.28
1	A	262	ASN	C-N-CA	-6.04	111.58	120.28
2	B	522	GLU	CB-CA-C	-6.04	102.97	111.85
1	A	586	GLU	CA-C-O	6.04	126.92	119.97
1	A	468	SER	O-C-N	6.04	130.24	122.39
2	B	112	ASP	O-C-N	6.04	128.00	121.12
1	A	621	LEU	C-N-CD	6.03	149.74	125.00
1	A	320	HIS	N-CA-C	-6.03	104.71	111.28
1	A	138	ASN	N-CA-CB	6.03	118.05	110.45
1	A	195	ALA	CA-C-N	6.03	130.24	120.60
1	A	195	ALA	C-N-CA	6.03	130.24	120.60
1	A	192	TYR	N-CA-C	6.02	123.12	109.81
2	B	406	SER	CA-C-N	-6.02	111.84	122.26
2	B	406	SER	C-N-CA	-6.02	111.84	122.26
2	B	471	TYR	CA-C-N	6.02	128.71	120.46
2	B	471	TYR	C-N-CA	6.02	128.71	120.46
1	A	136	GLY	O-C-N	-6.01	114.88	122.70
1	A	345	ASN	N-CA-C	6.01	119.05	107.44
3	M	253	ASN	N-CA-C	6.01	123.10	109.81
3	M	223	HIS	CA-C-N	-6.01	114.63	122.99
3	M	223	HIS	C-N-CA	-6.01	114.63	122.99
3	M	368	ASP	CA-C-N	6.01	127.35	119.84
3	M	368	ASP	C-N-CA	6.01	127.35	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	275	ARG	N-CA-C	-6.00	100.95	109.96
2	B	405	GLU	N-CA-C	6.00	117.82	111.28
3	M	302	TYR	CA-C-N	-6.00	113.95	122.94
3	M	302	TYR	C-N-CA	-6.00	113.95	122.94
1	A	435	ILE	CA-C-N	-5.99	111.20	120.31
1	A	435	ILE	C-N-CA	-5.99	111.20	120.31
4	S	139	GLY	CA-C-O	5.99	125.68	118.86
2	B	166	SER	CA-C-O	-5.98	114.46	121.16
3	M	309	GLN	CA-C-O	-5.98	114.54	120.82
3	M	266	ASP	CA-C-O	5.97	127.25	120.80
1	A	269	LYS	O-C-N	5.97	129.21	122.22
2	B	80	GLN	CA-C-N	-5.97	112.32	120.44
2	B	80	GLN	C-N-CA	-5.97	112.32	120.44
1	A	572	PHE	N-CA-C	5.97	118.57	111.71
2	B	507	ALA	CA-C-N	5.97	128.87	120.28
2	B	507	ALA	C-N-CA	5.97	128.87	120.28
2	B	518	ILE	O-C-N	5.96	130.42	122.31
1	A	585	PHE	O-C-N	5.96	130.13	122.39
1	A	127	LEU	CA-C-O	-5.95	112.87	120.31
1	A	505	ASN	O-C-N	-5.95	114.25	122.46
3	M	265	ASN	CA-C-N	-5.94	111.81	121.26
3	M	265	ASN	C-N-CA	-5.94	111.81	121.26
3	M	73	ASN	CA-C-N	-5.94	113.48	122.81
3	M	73	ASN	C-N-CA	-5.94	113.48	122.81
1	A	418	ILE	N-CA-CB	-5.94	103.20	111.99
1	A	173	THR	N-CA-C	-5.94	102.69	110.53
1	A	332	TYR	CA-C-O	-5.94	112.02	120.51
1	A	118	SER	O-C-N	5.94	128.41	122.12
1	A	568	GLU	CA-C-N	5.93	133.95	121.91
1	A	568	GLU	C-N-CA	5.93	133.95	121.91
1	A	627	GLU	CA-C-O	-5.93	112.90	120.31
2	B	95	THR	O-C-N	5.92	129.93	122.23
2	B	197	LYS	O-C-N	5.92	130.46	122.59
2	B	75	ASP	CA-C-N	5.91	132.07	121.66
2	B	75	ASP	C-N-CA	5.91	132.07	121.66
2	B	478	LEU	CA-C-N	-5.91	110.93	120.62
2	B	478	LEU	C-N-CA	-5.91	110.93	120.62
2	B	313	SER	N-CA-C	5.91	123.38	110.80
1	A	164	ASP	O-C-N	5.90	130.60	122.46
1	A	473	ILE	CA-C-N	-5.90	113.51	120.00
1	A	473	ILE	C-N-CA	-5.90	113.51	120.00
3	M	466	LEU	CA-C-N	5.90	133.08	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	466	LEU	C-N-CA	5.90	133.08	122.64
3	M	303	SER	CA-C-N	-5.90	114.20	122.75
3	M	303	SER	C-N-CA	-5.90	114.20	122.75
3	M	120	ARG	CA-C-O	-5.89	112.36	119.49
1	A	510	THR	CA-C-O	-5.89	114.63	120.82
3	M	128	CYS	N-CA-C	-5.89	104.94	111.36
1	A	525	LEU	CA-C-N	-5.88	115.52	122.93
1	A	525	LEU	C-N-CA	-5.88	115.52	122.93
1	A	510	THR	CA-C-N	5.88	128.52	120.46
1	A	510	THR	C-N-CA	5.88	128.52	120.46
2	B	466	SER	CA-C-O	-5.88	114.19	120.42
2	B	407	ASN	CA-C-O	-5.88	112.45	119.15
3	M	41	LEU	CA-C-N	-5.88	112.40	120.28
3	M	41	LEU	C-N-CA	-5.88	112.40	120.28
4	S	147	ASN	CA-C-O	-5.88	113.21	119.97
1	A	328	PRO	N-CA-C	-5.88	106.40	113.98
2	B	22	ALA	CA-C-O	-5.87	114.65	120.70
1	A	620	GLY	CA-C-O	-5.87	109.77	119.15
2	B	229	HIS	O-C-N	5.86	130.69	122.36
1	A	247	ILE	N-CA-C	5.86	117.02	108.58
1	A	595	GLU	O-C-N	5.86	128.36	122.03
2	B	523	PHE	CA-C-O	5.86	128.89	120.51
3	M	415	ILE	CA-C-N	-5.86	114.91	123.00
3	M	415	ILE	C-N-CA	-5.86	114.91	123.00
1	A	239	LEU	O-C-N	5.86	130.68	122.36
1	A	199	ASN	CA-C-O	-5.86	112.47	119.15
2	B	506	ASN	O-C-N	5.85	130.17	122.33
3	M	432	THR	CA-C-N	-5.85	115.05	122.43
3	M	432	THR	C-N-CA	-5.85	115.05	122.43
3	M	56	VAL	CB-CA-C	-5.84	103.53	112.05
3	M	398	ILE	CA-C-N	-5.84	113.96	122.19
3	M	398	ILE	C-N-CA	-5.84	113.96	122.19
2	B	378	THR	CA-C-O	-5.84	112.16	120.51
1	A	410	TYR	CA-C-N	5.83	131.34	121.14
1	A	410	TYR	C-N-CA	5.83	131.34	121.14
3	M	227	GLU	O-C-N	-5.83	116.51	123.27
3	M	327	PHE	CA-C-N	-5.83	114.67	122.42
3	M	327	PHE	C-N-CA	-5.83	114.67	122.42
1	A	173	THR	CA-C-N	5.83	136.02	121.80
1	A	173	THR	C-N-CA	5.83	136.02	121.80
2	B	32	GLU	O-C-N	5.82	130.40	122.37
3	M	325	LEU	CA-C-N	-5.82	115.28	122.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	325	LEU	C-N-CA	-5.82	115.28	122.84
1	A	482	ILE	N-CA-C	-5.81	104.66	110.30
4	S	91	ASP	CA-C-N	-5.81	113.48	122.49
4	S	91	ASP	C-N-CA	-5.81	113.48	122.49
2	B	315	PRO	O-C-N	5.81	128.92	122.24
1	A	314	ALA	CA-C-O	-5.81	113.53	120.10
1	A	472	LYS	CA-C-O	-5.81	113.29	119.97
1	A	192	TYR	O-C-N	5.81	128.00	121.32
2	B	76	SER	N-CA-C	-5.81	106.03	113.23
3	M	471	LYS	CA-C-N	-5.80	112.37	122.64
3	M	471	LYS	C-N-CA	-5.80	112.37	122.64
2	B	279	LEU	CA-C-N	-5.80	113.99	119.85
2	B	279	LEU	C-N-CA	-5.80	113.99	119.85
2	B	484	THR	CA-C-N	-5.80	113.04	122.26
2	B	484	THR	C-N-CA	-5.80	113.04	122.26
2	B	456	ASP	CA-C-N	5.80	128.52	120.29
2	B	456	ASP	C-N-CA	5.80	128.52	120.29
1	A	95	MET	CA-C-N	-5.80	111.04	120.72
1	A	95	MET	C-N-CA	-5.80	111.04	120.72
2	B	34	SER	CA-C-O	-5.80	113.55	120.10
1	A	235	GLN	N-CA-C	5.79	119.61	112.54
1	A	557	LYS	CA-C-O	-5.79	112.25	119.38
3	M	337	GLU	CA-C-N	-5.79	114.25	122.94
3	M	337	GLU	C-N-CA	-5.79	114.25	122.94
2	B	171	GLY	O-C-N	5.79	130.23	122.70
3	M	428	VAL	CA-C-N	-5.79	110.48	121.54
3	M	428	VAL	C-N-CA	-5.79	110.48	121.54
1	A	396	VAL	CA-C-N	-5.79	113.12	121.98
1	A	396	VAL	C-N-CA	-5.79	113.12	121.98
4	S	2	ILE	CA-C-N	-5.79	111.90	121.92
4	S	2	ILE	C-N-CA	-5.79	111.90	121.92
2	B	566	ALA	N-CA-CB	-5.79	102.89	110.59
2	B	190	GLU	CA-C-O	-5.79	114.42	120.55
2	B	488	ARG	CA-C-O	-5.78	113.82	120.24
2	B	53	SER	N-CA-C	-5.78	101.07	110.20
1	A	80	TYR	CB-CA-C	5.77	121.45	109.38
2	B	378	THR	O-C-N	5.77	130.27	122.59
2	B	242	SER	N-CA-C	5.77	123.09	110.80
2	B	21	GLU	N-CA-C	5.77	120.59	113.50
2	B	539	ASN	CA-C-N	5.76	132.90	122.02
2	B	539	ASN	C-N-CA	5.76	132.90	122.02
1	A	505	ASN	CA-C-O	5.75	126.44	119.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	357	LYS	CA-C-N	-5.75	115.81	122.95
3	M	357	LYS	C-N-CA	-5.75	115.81	122.95
1	A	65	ASN	CA-C-N	5.75	128.55	120.28
1	A	65	ASN	C-N-CA	5.75	128.55	120.28
2	B	49	THR	O-C-N	5.75	130.23	122.59
3	M	414	CYS	CA-C-N	-5.74	115.56	122.90
3	M	414	CYS	C-N-CA	-5.74	115.56	122.90
4	S	17	VAL	CA-C-N	-5.74	112.89	122.64
4	S	17	VAL	C-N-CA	-5.74	112.89	122.64
4	S	143	GLU	O-C-N	5.73	130.49	123.44
1	A	535	ILE	CA-C-O	-5.73	111.06	120.80
2	B	446	TRP	CA-C-O	-5.73	112.62	119.15
2	B	537	PHE	N-CA-C	5.73	118.26	111.33
2	B	577	ASN	C-N-CD	5.73	148.48	125.00
2	B	374	PHE	CA-C-N	-5.73	113.02	120.58
2	B	374	PHE	C-N-CA	-5.73	113.02	120.58
1	A	149	GLY	O-C-N	5.72	130.14	122.70
2	B	80	GLN	O-C-N	5.72	128.19	122.12
1	A	419	ILE	CA-C-N	5.72	132.72	122.13
1	A	419	ILE	C-N-CA	5.72	132.72	122.13
3	M	8	THR	CA-C-O	-5.72	114.46	121.78
3	M	299	LEU	CA-C-O	5.72	125.87	119.41
3	M	274	ASP	O-C-N	-5.72	115.24	122.27
4	S	55	PRO	N-CA-C	5.72	121.37	113.65
1	A	355	LEU	CA-C-O	-5.71	113.41	119.97
1	A	405	THR	CB-CA-C	-5.70	99.07	110.42
2	B	156	HIS	CA-C-O	-5.70	112.35	120.51
1	A	224	GLU	N-CA-C	-5.70	104.97	111.07
2	B	207	VAL	O-C-N	5.70	132.26	121.84
2	B	265	VAL	CA-C-N	5.70	130.52	123.12
2	B	265	VAL	C-N-CA	5.70	130.52	123.12
1	A	231	GLN	CA-C-O	-5.69	112.82	118.34
1	A	248	ASP	CA-C-N	5.69	129.56	121.42
1	A	248	ASP	C-N-CA	5.69	129.56	121.42
1	A	83	ASP	CA-C-N	-5.69	113.55	122.65
1	A	83	ASP	C-N-CA	-5.69	113.55	122.65
1	A	423	ASN	O-C-N	5.69	129.35	122.35
2	B	541	GLY	CA-C-N	5.68	126.95	119.84
2	B	541	GLY	C-N-CA	5.68	126.95	119.84
1	A	445	ASN	CA-C-N	-5.67	114.08	122.41
1	A	445	ASN	C-N-CA	-5.67	114.08	122.41
1	A	194	GLU	O-C-N	5.67	128.66	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	375	VAL	N-CA-C	-5.67	104.41	110.36
2	B	297	PRO	CA-C-O	-5.67	110.28	120.60
4	S	100	ASP	CA-C-O	-5.67	113.45	119.97
1	A	528	ASN	O-C-N	-5.66	113.12	121.89
1	A	584	PHE	CA-C-O	-5.65	114.88	120.70
4	S	123	PHE	CA-C-N	-5.65	114.75	123.17
4	S	123	PHE	C-N-CA	-5.65	114.75	123.17
1	A	343	LYS	N-CA-C	-5.65	105.22	111.71
4	S	106	VAL	N-CA-C	-5.65	105.60	110.74
1	A	521	GLU	CA-C-N	-5.64	113.80	122.60
1	A	521	GLU	C-N-CA	-5.64	113.80	122.60
3	M	295	GLY	CA-C-N	5.64	128.77	120.82
3	M	295	GLY	C-N-CA	5.64	128.77	120.82
1	A	251	TRP	CA-C-O	-5.63	113.99	120.24
1	A	488	ARG	CA-C-N	5.63	127.83	120.28
1	A	488	ARG	C-N-CA	5.63	127.83	120.28
2	B	354	GLY	N-CA-C	-5.63	99.83	113.18
2	B	561	ASP	O-C-N	5.63	130.08	122.59
2	B	420	ALA	N-CA-C	5.63	118.14	111.33
2	B	279	LEU	N-CA-C	5.63	116.60	110.13
2	B	433	VAL	O-C-N	5.62	132.60	121.91
3	M	457	GLY	CA-C-O	5.62	125.03	118.96
3	M	11	LYS	CA-C-N	5.62	133.24	123.91
3	M	11	LYS	C-N-CA	5.62	133.24	123.91
2	B	218	CYS	CA-C-N	5.62	132.30	121.18
2	B	218	CYS	C-N-CA	5.62	132.30	121.18
1	A	277	LYS	N-CA-C	5.62	118.40	108.24
2	B	522	GLU	CA-C-N	5.61	132.25	121.54
2	B	522	GLU	C-N-CA	5.61	132.25	121.54
1	A	321	THR	CA-C-N	5.61	133.58	121.64
1	A	321	THR	C-N-CA	5.61	133.58	121.64
2	B	44	PRO	CA-C-O	-5.61	111.11	119.86
4	S	118	GLU	N-CA-C	-5.61	105.17	111.28
4	S	160	ALA	CA-C-N	-5.61	111.79	120.31
4	S	160	ALA	C-N-CA	-5.61	111.79	120.31
2	B	167	ALA	O-C-N	5.61	129.52	122.23
2	B	370	ASP	CA-C-O	-5.60	114.75	120.63
2	B	222	HIS	O-C-N	5.60	130.04	122.59
4	S	97	ALA	O-C-N	5.60	128.59	122.20
1	A	546	SER	O-C-N	5.60	128.06	122.12
1	A	366	SER	CA-C-N	5.60	128.74	120.74
1	A	366	SER	C-N-CA	5.60	128.74	120.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	397	TRP	CA-C-N	-5.60	115.60	122.93
3	M	397	TRP	C-N-CA	-5.60	115.60	122.93
1	A	111	SER	CA-C-N	-5.60	111.81	121.66
1	A	111	SER	C-N-CA	-5.60	111.81	121.66
2	B	299	LEU	N-CA-C	-5.59	105.27	111.36
3	M	237	THR	CA-C-O	5.59	127.77	121.51
3	M	326	HIS	CA-C-N	-5.59	114.20	122.41
3	M	326	HIS	C-N-CA	-5.59	114.20	122.41
2	B	583	PHE	O-C-N	5.58	130.02	122.59
2	B	35	TYR	N-CA-C	-5.58	105.73	112.54
1	A	191	GLN	CA-C-N	5.58	135.40	121.80
1	A	191	GLN	C-N-CA	5.58	135.40	121.80
1	A	633	PHE	N-CA-C	-5.58	105.20	111.28
3	M	254	PRO	CA-C-N	5.58	132.12	122.64
3	M	254	PRO	C-N-CA	5.58	132.12	122.64
2	B	356	LYS	N-CA-C	-5.57	104.22	111.02
2	B	505	ASP	N-CA-C	-5.57	105.29	111.36
3	M	442	GLN	N-CA-C	-5.57	101.29	109.81
4	S	125	TRP	N-CA-C	-5.57	104.22	111.02
1	A	306	GLU	N-CA-C	5.57	122.66	110.80
2	B	538	SER	CA-C-N	-5.57	113.80	122.37
2	B	538	SER	C-N-CA	-5.57	113.80	122.37
2	B	337	THR	N-CA-C	-5.56	98.95	110.80
3	M	44	ASP	N-CA-C	-5.56	104.72	112.45
3	M	341	SER	CA-C-O	5.56	126.44	120.38
4	S	89	VAL	O-C-N	-5.55	117.03	122.97
3	M	266	ASP	O-C-N	5.55	130.67	123.07
2	B	57	ARG	O-C-N	5.55	130.24	122.36
4	S	101	LEU	CA-C-N	5.55	129.86	121.65
4	S	101	LEU	C-N-CA	5.55	129.86	121.65
4	S	105	PHE	N-CA-C	-5.55	105.24	112.23
1	A	544	SER	CA-C-N	5.54	127.98	120.38
1	A	544	SER	C-N-CA	5.54	127.98	120.38
2	B	90	ILE	N-CA-C	-5.54	103.91	111.89
1	A	244	LEU	CA-C-N	-5.54	111.44	120.64
1	A	244	LEU	C-N-CA	-5.54	111.44	120.64
3	M	25	PRO	N-CA-C	-5.54	98.25	112.10
3	M	239	SER	CA-C-N	-5.54	115.92	123.12
3	M	239	SER	C-N-CA	-5.54	115.92	123.12
3	M	383	HIS	N-CA-C	5.54	122.60	110.80
1	A	627	GLU	O-C-N	5.53	129.77	122.30
3	M	118	TYR	O-C-N	5.53	129.94	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	133	GLU	CA-C-O	-5.52	113.28	119.79
2	B	518	ILE	CA-C-O	-5.52	112.30	119.53
3	M	326	HIS	O-C-N	-5.52	116.48	123.05
2	B	265	VAL	O-C-N	5.52	128.56	122.66
3	M	310	VAL	N-CA-C	-5.52	105.15	110.72
2	B	205	PRO	CA-C-O	5.52	127.93	119.55
1	A	65	ASN	CA-C-O	-5.51	114.12	120.24
3	M	293	PRO	CA-C-N	-5.51	109.74	121.32
3	M	293	PRO	C-N-CA	-5.51	109.74	121.32
4	S	79	ASN	CA-C-O	-5.51	114.46	120.36
1	A	350	SER	N-CA-C	-5.51	105.27	111.28
1	A	400	VAL	O-C-N	5.51	132.38	121.91
1	A	358	ARG	CA-C-O	-5.51	113.64	119.97
1	A	623	MET	CA-C-O	-5.51	113.29	119.79
2	B	23	ALA	N-CA-CB	5.51	120.03	110.39
2	B	562	ASN	CA-C-O	-5.51	112.83	119.27
1	A	528	ASN	CA-C-N	-5.50	111.27	120.74
1	A	528	ASN	C-N-CA	-5.50	111.27	120.74
2	B	90	ILE	CA-C-N	-5.50	112.42	122.38
2	B	90	ILE	C-N-CA	-5.50	112.42	122.38
2	B	536	ASN	CA-C-N	5.50	127.92	120.38
2	B	536	ASN	C-N-CA	5.50	127.92	120.38
1	A	275	LEU	C-N-CD	5.50	147.55	125.00
2	B	506	ASN	CA-C-O	-5.49	113.31	119.79
1	A	592	SER	N-CA-C	5.49	118.02	111.71
1	A	302	ASN	N-CA-CB	5.49	119.77	110.49
1	A	617	ASP	CA-C-N	-5.48	114.34	122.56
1	A	617	ASP	C-N-CA	-5.48	114.34	122.56
2	B	556	LEU	CA-C-O	-5.48	114.61	120.42
1	A	175	PRO	CA-C-N	5.48	128.07	120.29
1	A	175	PRO	C-N-CA	5.48	128.07	120.29
3	M	241	HIS	CA-C-N	-5.48	117.63	122.73
3	M	241	HIS	C-N-CA	-5.48	117.63	122.73
2	B	46	GLN	N-CA-C	-5.48	106.67	113.19
3	M	328	GLN	CA-C-O	5.47	126.44	120.58
2	B	377	TYR	O-C-N	5.47	128.86	122.24
2	B	542	PRO	O-C-N	5.47	130.02	122.64
2	B	571	SER	CA-C-N	-5.47	110.92	121.58
2	B	571	SER	C-N-CA	-5.47	110.92	121.58
1	A	194	GLU	CA-C-O	-5.46	114.08	120.20
2	B	338	LYS	O-C-N	5.46	127.91	122.12
2	B	325	LEU	N-CA-C	-5.46	105.49	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	114	PHE	CA-C-N	-5.45	112.38	120.94
1	A	114	PHE	C-N-CA	-5.45	112.38	120.94
2	B	141	ALA	CA-C-N	-5.44	111.87	120.63
2	B	141	ALA	C-N-CA	-5.44	111.87	120.63
2	B	473	ASN	O-C-N	5.44	128.35	122.15
3	M	83	SER	N-CA-C	-5.44	99.22	110.80
2	B	404	ASN	CA-C-O	5.43	127.20	121.33
1	A	201	ASP	O-C-N	5.43	128.39	122.20
3	M	119	ASP	CA-C-O	-5.43	114.74	120.55
2	B	227	HIS	CA-C-O	-5.42	112.75	120.51
1	A	276	PRO	CA-C-N	-5.42	114.77	122.41
1	A	276	PRO	C-N-CA	-5.42	114.77	122.41
3	M	84	LYS	N-CA-C	5.42	122.34	110.80
1	A	230	PRO	CA-N-CD	5.42	119.59	112.00
2	B	125	LYS	CA-C-N	5.42	128.08	120.28
2	B	125	LYS	C-N-CA	5.42	128.08	120.28
1	A	308	ASP	O-C-N	5.42	129.38	122.39
3	M	267	ILE	N-CA-C	-5.42	101.74	108.89
4	S	4	ALA	O-C-N	-5.41	117.42	123.48
4	S	137	GLN	CA-C-N	5.41	132.43	121.93
4	S	137	GLN	C-N-CA	5.41	132.43	121.93
2	B	438	ARG	CA-C-N	-5.41	113.08	120.44
2	B	438	ARG	C-N-CA	-5.41	113.08	120.44
2	B	569	THR	CB-CA-C	-5.40	102.16	110.26
1	A	218	ALA	CB-CA-C	5.40	121.72	110.32
4	S	143	GLU	CA-C-O	5.39	127.49	120.21
1	A	102	GLN	CA-C-N	5.38	128.24	120.38
1	A	102	GLN	C-N-CA	5.38	128.24	120.38
3	M	131	ALA	N-CA-C	-5.38	104.22	111.54
3	M	267	ILE	CA-C-N	-5.38	110.86	121.41
3	M	267	ILE	C-N-CA	-5.38	110.86	121.41
3	M	46	SER	N-CA-C	-5.38	99.35	110.80
1	A	93	GLU	CA-C-N	5.38	127.44	120.56
1	A	93	GLU	C-N-CA	5.38	127.44	120.56
2	B	333	GLN	O-C-N	5.37	129.33	122.03
1	A	202	LYS	CA-C-O	-5.37	113.45	120.00
1	A	278	ILE	O-C-N	-5.37	114.42	123.00
3	M	294	ASP	N-CA-CB	5.36	118.60	110.45
3	M	444	ALA	N-CA-CB	-5.36	102.24	110.12
3	M	386	PHE	CA-C-N	-5.36	115.16	122.93
3	M	386	PHE	C-N-CA	-5.36	115.16	122.93
1	A	321	THR	N-CA-C	5.35	118.60	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	406	SER	N-CA-C	5.35	119.07	112.54
4	S	70	ASN	N-CA-C	-5.35	104.52	111.74
3	M	392	MET	N-CA-C	-5.35	106.71	113.18
3	M	367	ALA	N-CA-CB	-5.35	101.70	110.52
2	B	597	TYR	CA-C-O	-5.34	114.22	120.20
2	B	519	ALA	N-CA-CB	-5.34	101.24	110.32
2	B	278	PRO	CA-C-N	-5.34	113.83	122.48
2	B	278	PRO	C-N-CA	-5.34	113.83	122.48
3	M	388	ASN	CA-C-O	-5.33	114.79	120.92
2	B	309	LEU	N-CA-C	-5.33	105.64	111.82
4	S	84	TYR	CA-C-N	-5.32	114.54	122.74
4	S	84	TYR	C-N-CA	-5.32	114.54	122.74
4	S	86	THR	CA-C-N	-5.32	114.54	122.74
4	S	86	THR	C-N-CA	-5.32	114.54	122.74
2	B	557	SER	CA-C-N	-5.32	111.38	121.54
2	B	557	SER	C-N-CA	-5.32	111.38	121.54
4	S	11	LYS	CA-C-N	5.31	130.10	122.35
4	S	11	LYS	C-N-CA	5.31	130.10	122.35
1	A	98	ASN	CB-CA-C	5.30	119.11	109.62
2	B	22	ALA	CA-C-N	-5.30	110.68	121.18
2	B	22	ALA	C-N-CA	-5.30	110.68	121.18
1	A	63	ASP	N-CA-C	5.30	125.85	111.00
1	A	79	MET	CA-C-N	5.30	130.88	122.62
1	A	79	MET	C-N-CA	5.30	130.88	122.62
2	B	370	ASP	CA-C-N	-5.30	113.24	120.44
2	B	370	ASP	C-N-CA	-5.30	113.24	120.44
4	S	85	PHE	CA-C-N	-5.29	115.26	122.93
4	S	85	PHE	C-N-CA	-5.29	115.26	122.93
4	S	147	ASN	O-C-N	5.29	128.78	122.27
2	B	316	THR	CA-C-O	-5.29	114.94	120.55
1	A	497	LYS	O-C-N	5.28	128.17	122.15
3	M	480	GLN	CA-C-N	-5.28	116.25	123.12
3	M	480	GLN	C-N-CA	-5.28	116.25	123.12
3	M	388	ASN	O-C-N	-5.28	117.04	123.16
1	A	270	LEU	CA-C-N	-5.27	113.58	120.44
1	A	270	LEU	C-N-CA	-5.27	113.58	120.44
1	A	533	ILE	N-CA-C	5.27	116.00	110.62
2	B	180	LEU	N-CA-C	-5.27	107.50	114.04
4	S	148	ARG	CA-C-O	-5.27	114.39	120.24
1	A	242	GLU	N-CA-CB	5.27	118.07	109.69
3	M	115	VAL	CA-C-N	-5.27	113.28	120.44
3	M	115	VAL	C-N-CA	-5.27	113.28	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	147	MET	CA-C-O	5.26	127.08	121.45
1	A	530	ASN	CA-C-O	-5.26	114.15	120.10
2	B	495	ASP	CA-C-N	-5.26	112.31	120.31
2	B	495	ASP	C-N-CA	-5.26	112.31	120.31
1	A	374	LEU	O-C-N	5.26	130.01	122.28
1	A	625	LEU	N-CA-C	-5.26	105.44	111.07
2	B	524	LYS	CA-C-N	-5.25	112.52	121.97
2	B	524	LYS	C-N-CA	-5.25	112.52	121.97
3	M	45	SER	N-CA-C	-5.25	99.61	110.80
1	A	66	SER	CA-C-N	5.25	127.75	120.29
1	A	66	SER	C-N-CA	5.25	127.75	120.29
3	M	212	ASN	CA-C-N	-5.25	114.22	122.73
3	M	212	ASN	C-N-CA	-5.25	114.22	122.73
2	B	358	MET	CA-C-N	5.24	127.76	120.63
2	B	358	MET	C-N-CA	5.24	127.76	120.63
1	A	401	VAL	CA-C-O	-5.24	114.23	120.78
2	B	464	SER	N-CA-C	-5.24	103.23	110.35
3	M	462	LYS	N-CA-CB	5.24	117.85	110.36
2	B	517	GLU	N-CA-C	5.23	116.98	111.28
3	M	264	GLY	CA-C-N	5.23	131.44	123.23
3	M	264	GLY	C-N-CA	5.23	131.44	123.23
3	M	434	SER	CA-C-N	-5.23	115.73	123.05
3	M	434	SER	C-N-CA	-5.23	115.73	123.05
1	A	399	ASP	N-CA-C	5.22	119.56	112.04
2	B	561	ASP	CA-C-O	-5.22	113.05	120.51
2	B	89	ASN	O-C-N	5.21	129.17	122.39
3	M	215	TYR	CA-C-N	-5.21	116.02	123.11
3	M	215	TYR	C-N-CA	-5.21	116.02	123.11
1	A	349	ILE	CA-C-N	-5.21	113.30	120.28
1	A	349	ILE	C-N-CA	-5.21	113.30	120.28
2	B	331	PRO	O-C-N	5.21	128.47	122.17
3	M	352	GLN	CA-C-N	-5.21	116.18	123.10
3	M	352	GLN	C-N-CA	-5.21	116.18	123.10
3	M	358	ILE	N-CA-C	5.21	114.79	106.88
2	B	280	PRO	CA-C-O	-5.20	115.32	121.67
2	B	424	PHE	N-CA-C	5.20	117.17	109.62
2	B	487	LEU	O-C-N	5.20	128.31	122.22
2	B	162	VAL	N-CA-C	-5.20	104.47	111.44
3	M	220	GLU	N-CA-C	5.20	117.27	108.02
2	B	316	THR	CA-C-N	5.17	129.18	120.29
2	B	316	THR	C-N-CA	5.17	129.18	120.29
1	A	354	GLN	CA-C-O	-5.17	114.26	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	109	ALA	N-CA-C	-5.16	105.78	111.71
1	A	414	LYS	CA-C-N	5.16	128.87	121.50
1	A	414	LYS	C-N-CA	5.16	128.87	121.50
1	A	530	ASN	CA-C-N	-5.15	112.04	121.52
1	A	530	ASN	C-N-CA	-5.15	112.04	121.52
2	B	261	PRO	CB-CA-C	5.15	120.06	111.56
1	A	199	ASN	CA-C-N	5.15	127.13	120.44
1	A	199	ASN	C-N-CA	5.15	127.13	120.44
3	M	223	HIS	CA-C-O	5.14	126.48	120.20
2	B	383	VAL	O-C-N	5.14	129.00	122.57
1	A	270	LEU	N-CA-C	-5.13	105.14	111.40
2	B	576	GLN	N-CA-CB	5.13	117.78	110.44
2	B	21	GLU	CA-C-N	5.13	127.42	120.44
2	B	21	GLU	C-N-CA	5.13	127.42	120.44
2	B	290	SER	CA-C-O	-5.13	113.61	119.41
2	B	264	THR	N-CA-C	-5.13	101.50	109.14
3	M	446	GLY	CA-C-N	5.13	131.20	121.97
3	M	446	GLY	C-N-CA	5.13	131.20	121.97
1	A	488	ARG	CA-C-O	-5.12	114.55	120.24
1	A	207	LEU	CA-C-N	-5.12	113.75	122.56
1	A	207	LEU	C-N-CA	-5.12	113.75	122.56
4	S	143	GLU	CA-C-N	5.12	130.28	122.24
4	S	143	GLU	C-N-CA	5.12	130.28	122.24
3	M	42	LEU	CA-C-O	-5.12	115.13	120.55
1	A	203	PHE	CA-C-O	-5.12	115.11	120.63
3	M	443	SER	CA-C-O	-5.11	114.84	120.36
1	A	78	GLU	N-CA-C	-5.11	105.71	111.28
2	B	397	GLN	O-C-N	5.11	129.03	122.39
4	S	23	VAL	N-CA-C	-5.11	100.92	108.23
3	M	334	ASP	N-CA-C	-5.11	108.31	114.75
2	B	598	LEU	O-C-N	5.10	129.17	122.33
3	M	368	ASP	N-CA-C	-5.10	100.65	109.58
4	S	90	ASP	O-C-N	5.10	128.65	122.94
2	B	542	PRO	CA-C-O	-5.10	111.33	120.60
3	M	69	ILE	CA-C-N	5.09	130.17	122.99
3	M	69	ILE	C-N-CA	5.09	130.17	122.99
1	A	89	PHE	N-CA-C	5.08	117.48	111.33
3	M	285	PRO	N-CA-C	5.08	120.51	113.65
1	A	391	LEU	N-CA-C	-5.08	106.91	113.01
1	A	198	ASP	CA-C-N	-5.08	113.48	122.26
1	A	198	ASP	C-N-CA	-5.08	113.48	122.26
1	A	241	TYR	CA-C-N	5.07	128.05	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	241	TYR	C-N-CA	5.07	128.05	120.90
2	B	465	ALA	N-CA-C	5.07	117.47	111.33
1	A	211	ASP	CA-C-O	-5.07	114.91	120.69
2	B	191	GLU	CA-C-O	-5.06	113.82	120.00
1	A	400	VAL	N-CA-C	-5.06	106.22	111.58
4	S	126	GLN	O-C-N	5.06	127.48	122.12
3	M	125	PHE	O-C-N	5.05	127.47	122.12
2	B	120	ILE	N-CA-C	-5.05	105.50	111.00
3	M	294	ASP	CB-CA-C	5.05	119.81	109.76
3	M	461	GLY	CA-C-N	-5.05	111.78	120.97
3	M	461	GLY	C-N-CA	-5.05	111.78	120.97
1	A	352	PHE	N-CA-C	5.04	118.92	112.26
1	A	195	ALA	O-C-N	5.04	127.26	122.07
2	B	145	MET	N-CA-C	-5.04	102.06	110.17
2	B	50	LEU	N-CA-C	-5.04	106.64	112.89
3	M	213	GLU	CA-C-N	-5.04	115.39	122.94
3	M	213	GLU	C-N-CA	-5.04	115.39	122.94
4	S	138	GLY	N-CA-C	-5.03	108.67	115.36
3	M	355	ASP	CA-C-O	-5.03	113.32	120.51
2	B	511	ILE	CA-C-N	-5.01	113.57	120.74
2	B	511	ILE	C-N-CA	-5.01	113.57	120.74
2	B	381	PHE	CA-C-N	-5.01	114.52	121.99
2	B	381	PHE	C-N-CA	-5.01	114.52	121.99
1	A	445	ASN	CA-C-O	5.01	126.11	120.00
3	M	373	ALA	N-CA-C	-5.01	100.57	108.73
1	A	546	SER	CA-C-O	-5.00	115.25	120.55

There are no chirality outliers.

All (99) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	117	ASP	Mainchain
1	A	174	ARG	Mainchain
1	A	192	TYR	Mainchain
1	A	199	ASN	Mainchain
1	A	204	VAL	Mainchain
1	A	219	VAL	Mainchain
1	A	233	PHE	Mainchain
1	A	240	LEU	Mainchain
1	A	244	LEU	Mainchain
1	A	260	PHE	Mainchain
1	A	275	LEU	Mainchain

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Mol	Chain	Res	Type	Group
1	A	277	LYS	Mainchain
1	A	278	ILE	Mainchain
1	A	282	MET	Mainchain
1	A	298	ILE	Mainchain
1	A	302	ASN	Mainchain
1	A	306	GLU	Mainchain
1	A	319	LEU	Mainchain
1	A	320	HIS	Mainchain
1	A	323	CYS	Mainchain
1	A	325	SER	Mainchain
1	A	328	PRO	Mainchain
1	A	350	SER	Mainchain
1	A	399	ASP	Peptide
1	A	400	VAL	Peptide
1	A	441	TYR	Mainchain
1	A	462	GLN	Mainchain
1	A	487	MET	Mainchain
1	A	500	SER	Mainchain
1	A	501	ASN	Mainchain
1	A	505	ASN	Mainchain
1	A	506	LYS	Mainchain
1	A	527	GLU	Mainchain
1	A	528	ASN	Mainchain
1	A	529	GLY	Mainchain
1	A	531	ASP	Mainchain
1	A	535	ILE	Mainchain
1	A	536	MET	Mainchain
1	A	538	GLU	Mainchain
1	A	539	ASN	Mainchain
1	A	565	ASN	Mainchain
1	A	569	ASP	Mainchain
1	A	571	ARG	Mainchain
1	A	586	GLU	Mainchain
1	A	588	LEU	Mainchain
1	A	64	LEU	Mainchain
1	A	80	TYR	Mainchain
1	A	84	MET	Mainchain
1	A	94	VAL	Mainchain
2	B	126	SER	Mainchain
2	B	142	LEU	Mainchain
2	B	147	MET	Mainchain
2	B	237	ILE	Mainchain

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Mol	Chain	Res	Type	Group
2	B	267	ASP	Mainchain
2	B	278	PRO	Peptide
2	B	288	TYR	Mainchain
2	B	326	TYR	Mainchain
2	B	375	LEU	Mainchain
2	B	377	TYR	Mainchain
2	B	381	PHE	Mainchain
2	B	384	PHE	Mainchain
2	B	404	ASN	Mainchain
2	B	41	ASN	Peptide
2	B	444	THR	Mainchain
2	B	459	GLU	Mainchain
2	B	485	LYS	Mainchain
2	B	497	LEU	Mainchain
2	B	523	PHE	Mainchain
2	B	536	ASN	Mainchain
2	B	557	SER	Mainchain
2	B	56	SER	Mainchain
2	B	565	GLN	Mainchain
2	B	569	THR	Mainchain
2	B	573	GLU	Mainchain
2	B	584	SER	Mainchain
2	B	78	ASP	Mainchain
2	B	82	TYR	Mainchain
3	M	265	ASN	Mainchain
3	M	284	SER	Mainchain
3	M	292	PRO	Peptide
3	M	40	GLN	Mainchain
3	M	421	GLY	Mainchain
3	M	426	LYS	Peptide
3	M	445	SER	Peptide
3	M	45	SER	Peptide
3	M	456	SER	Mainchain
3	M	462	LYS	Peptide
3	M	477	GLY	Peptide
3	M	57	GLY	Mainchain
3	M	8	THR	Mainchain
3	M	85	GLY	Mainchain
4	S	101	LEU	Mainchain
4	S	102	ILE	Mainchain
4	S	135	ILE	Mainchain
4	S	161	GLU	Mainchain

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Mol	Chain	Res	Type	Group
4	S	163	THR	Peptide
4	S	167	ILE	Peptide
4	S	43	ASN	Mainchain
4	S	53	THR	Mainchain

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the 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 within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4625	0	4695	2339	0
2	B	4954	0	4975	3416	0
3	M	3106	0	3085	1544	0
4	S	1356	0	1331	915	0
All	All	14041	0	14086	7398	0

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 263.

All (7398) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:8:PHE:CE1	4:S:84:TYR:HB2	1.15	1.68
2:B:171:GLY:CA	2:B:207:VAL:HG13	1.22	1.64
1:A:140:VAL:HA	1:A:177:ILE:CG1	1.17	1.64
1:A:102:GLN:CG	4:S:166:LYS:H	1.11	1.63
1:A:633:PHE:CE1	2:B:513:TRP:CE3	1.74	1.63
2:B:127:LEU:HD13	2:B:157:THR:CG2	1.14	1.62
2:B:219:TYR:HB3	2:B:223:LEU:CD2	1.19	1.61
1:A:217:ALA:CA	4:S:142:ILE:HB	1.14	1.61
3:M:104:PHE:CE1	3:M:113:LYS:HE2	1.25	1.61
2:B:123:LEU:CD1	2:B:142:LEU:HG	1.29	1.61
2:B:252:LEU:HD13	2:B:302:PHE:CD1	1.15	1.61
4:S:5:VAL:HG21	4:S:132:LEU:CD2	1.26	1.61
1:A:288:THR:HG21	1:A:322:PHE:CZ	1.25	1.60
2:B:216:LYS:CB	2:B:251:LEU:HD13	1.19	1.60
4:S:8:PHE:CE1	4:S:84:TYR:CB	1.77	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:83:PHE:CZ	2:B:119:SER:HB3	1.14	1.60
2:B:260:LEU:HB3	2:B:291:TYR:CE1	1.14	1.60
3:M:449:VAL:CG1	3:M:452:ILE:HD11	1.26	1.60
2:B:556:LEU:HA	2:B:588:ILE:CD1	1.27	1.59
2:B:219:TYR:CE1	2:B:226:LEU:CB	1.80	1.59
2:B:260:LEU:CB	2:B:291:TYR:HE1	1.14	1.59
3:M:104:PHE:CE1	3:M:113:LYS:CE	1.74	1.59
2:B:83:PHE:CE2	2:B:119:SER:HB3	1.09	1.59
2:B:139:LEU:HD23	2:B:173:VAL:CA	1.23	1.59
1:A:557:LYS:CE	2:B:606:ASP:H	1.06	1.58
2:B:433:VAL:HG12	2:B:474:VAL:CG2	1.24	1.58
3:M:215:TYR:CD1	3:M:468:LYS:HA	1.35	1.58
1:A:105:VAL:HG23	4:S:167:ILE:CD1	1.11	1.58
1:A:105:VAL:H	4:S:167:ILE:CD1	1.13	1.58
3:M:69:ILE:CD1	3:M:90:PHE:HZ	1.10	1.57
3:M:244:VAL:HA	3:M:472:TYR:CD2	1.13	1.57
2:B:316:THR:HG21	3:M:90:PHE:CE2	1.38	1.57
2:B:546:CYS:HB2	2:B:607:ILE:CG1	1.20	1.57
3:M:104:PHE:CZ	3:M:113:LYS:CE	1.80	1.57
3:M:379:LEU:HD22	3:M:386:PHE:CD1	1.36	1.57
2:B:2:VAL:CG1	2:B:6:HIS:NE2	1.67	1.57
2:B:319:LEU:CD1	2:B:358:MET:CG	1.80	1.57
2:B:523:PHE:HZ	2:B:580:TYR:CD2	1.21	1.57
1:A:605:GLU:HG3	1:A:632:PHE:CD2	1.37	1.57
2:B:291:TYR:HD2	2:B:294:VAL:CG1	1.18	1.57
2:B:549:LEU:HD21	2:B:611:ALA:CA	1.29	1.56
2:B:275:ARG:HB2	2:B:294:VAL:CG1	1.32	1.56
1:A:630:PRO:CG	2:B:614:ILE:HG12	1.18	1.56
2:B:87:VAL:HG13	2:B:122:SER:CB	1.17	1.56
1:A:384:LEU:HD22	1:A:441:TYR:CE2	1.41	1.55
2:B:353:GLN:HG3	3:M:47:SER:C	1.20	1.55
2:B:472:VAL:HG11	2:B:510:GLY:CA	1.35	1.55
2:B:523:PHE:CZ	2:B:580:TYR:HD2	1.21	1.55
2:B:275:ARG:CG	2:B:294:VAL:HG11	1.24	1.55
2:B:70:MET:CE	2:B:107:ARG:HB2	1.11	1.55
2:B:162:VAL:CG2	2:B:195:ILE:HG23	1.29	1.55
3:M:223:HIS:HA	3:M:479:PHE:CD2	1.38	1.55
4:S:73:ILE:CG2	4:S:88:ILE:HG23	1.37	1.55
2:B:24:ALA:HB3	2:B:35:TYR:CE2	1.41	1.54
2:B:70:MET:HE3	2:B:107:ARG:CB	1.07	1.54
1:A:633:PHE:CG	2:B:550:VAL:HG12	1.03	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:216:LYS:HA	2:B:251:LEU:CD1	1.32	1.54
2:B:513:TRP:HA	2:B:551:LEU:CD2	1.37	1.54
2:B:267:ASP:H	2:B:289:PRO:CB	1.15	1.54
2:B:278:PRO:HA	2:B:288:TYR:C	1.21	1.54
3:M:69:ILE:CD1	3:M:90:PHE:CZ	1.87	1.54
1:A:217:ALA:HA	4:S:142:ILE:CB	1.06	1.54
1:A:595:GLU:HG3	2:B:469:ASP:CB	1.18	1.54
1:A:217:ALA:HB1	4:S:142:ILE:CD1	1.34	1.53
2:B:556:LEU:CA	2:B:588:ILE:HD11	1.34	1.53
4:S:163:THR:CA	4:S:163:THR:C	1.81	1.53
2:B:127:LEU:CB	2:B:157:THR:HG23	1.35	1.53
2:B:162:VAL:CG2	2:B:195:ILE:CG2	1.85	1.53
2:B:219:TYR:CZ	2:B:226:LEU:CA	1.92	1.53
2:B:127:LEU:CD2	2:B:161:LEU:HD21	1.27	1.53
2:B:178:ILE:HG13	2:B:214:ALA:C	1.17	1.53
3:M:101:LEU:HG	3:M:106:LYS:CA	1.30	1.52
2:B:83:PHE:CE2	2:B:119:SER:CB	1.91	1.52
2:B:158:VAL:HG11	2:B:177:ILE:CG1	1.11	1.52
1:A:630:PRO:HG3	2:B:614:ILE:CG1	1.07	1.51
4:S:5:VAL:CG2	4:S:132:LEU:HD21	1.05	1.51
2:B:219:TYR:CE1	2:B:226:LEU:HB2	1.34	1.51
2:B:537:PHE:HB3	2:B:598:LEU:CD1	1.35	1.51
2:B:549:LEU:CD2	2:B:611:ALA:N	1.72	1.50
2:B:139:LEU:CD2	2:B:173:VAL:HA	1.07	1.50
2:B:291:TYR:CD2	2:B:294:VAL:CG1	1.93	1.50
2:B:513:TRP:N	2:B:551:LEU:CD1	1.71	1.50
2:B:537:PHE:CD2	2:B:598:LEU:HB3	1.47	1.50
1:A:128:LEU:HD13	1:A:150:LEU:CD2	1.38	1.50
2:B:47:LEU:HD22	2:B:66:ILE:CG1	1.06	1.50
4:S:53:THR:C	4:S:69:ASN:HB2	1.34	1.50
2:B:219:TYR:CB	2:B:223:LEU:HD23	1.42	1.50
2:B:47:LEU:CD2	2:B:66:ILE:HG13	1.36	1.49
2:B:208:ILE:CD1	2:B:236:ILE:HG21	1.42	1.49
2:B:219:TYR:CD1	2:B:226:LEU:HB2	1.46	1.49
3:M:283:PHE:CZ	3:M:289:THR:OG1	1.65	1.49
2:B:215:TYR:CD1	2:B:233:TYR:HE1	1.29	1.49
2:B:275:ARG:CB	2:B:294:VAL:HG11	1.39	1.49
1:A:220:SER:HB3	4:S:142:ILE:CG2	1.36	1.49
2:B:127:LEU:HD22	2:B:161:LEU:CD2	1.38	1.49
1:A:179:LYS:CE	4:S:143:GLU:HB2	1.40	1.48
1:A:408:ILE:CG2	4:S:64:ASN:C	1.81	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:223:LEU:CD1	2:B:259:TYR:CA	1.90	1.48
1:A:128:LEU:CD1	1:A:150:LEU:HD21	1.44	1.48
1:A:204:VAL:HG22	1:A:236:LEU:CD2	1.43	1.48
2:B:208:ILE:HD13	2:B:236:ILE:CG2	1.01	1.48
2:B:219:TYR:CZ	2:B:226:LEU:HB2	1.49	1.48
2:B:559:ASP:HB2	2:B:563:PHE:CD1	1.46	1.48
2:B:537:PHE:CB	2:B:598:LEU:HD13	1.43	1.48
1:A:408:ILE:HG22	4:S:65:ASN:N	1.20	1.47
2:B:275:ARG:CB	2:B:294:VAL:CG1	1.90	1.47
1:A:128:LEU:CD1	1:A:150:LEU:CD2	1.91	1.47
1:A:212:ILE:CD1	4:S:145:ASN:ND2	1.73	1.47
2:B:303:LEU:CD1	2:B:333:GLN:HB3	1.41	1.47
2:B:337:THR:HA	2:B:373:LEU:CD2	1.44	1.47
2:B:433:VAL:CG1	2:B:474:VAL:HG21	1.43	1.47
2:B:523:PHE:CZ	2:B:580:TYR:CD2	1.96	1.47
2:B:252:LEU:CD1	2:B:302:PHE:CD1	1.97	1.46
1:A:100:LEU:H	4:S:162:SER:CB	1.25	1.46
1:A:105:VAL:CG2	4:S:167:ILE:CD1	1.91	1.46
2:B:230:PHE:CE1	2:B:252:LEU:HD23	1.50	1.46
1:A:408:ILE:HG22	4:S:64:ASN:C	1.37	1.46
2:B:20:ARG:NH1	2:B:21:GLU:HG3	1.23	1.46
2:B:260:LEU:CB	2:B:291:TYR:CE1	1.88	1.46
1:A:633:PHE:CG	2:B:550:VAL:CG1	1.97	1.46
2:B:83:PHE:CZ	2:B:119:SER:CB	1.91	1.46
2:B:219:TYR:CG	2:B:255:TYR:HE1	1.33	1.46
3:M:215:TYR:CG	3:M:468:LYS:HA	1.51	1.46
2:B:106:LEU:HD13	2:B:144:ASP:CB	1.45	1.45
1:A:211:ASP:OD1	4:S:148:ARG:CD	1.65	1.45
1:A:408:ILE:HG23	4:S:64:ASN:CB	1.01	1.45
2:B:127:LEU:CD1	2:B:157:THR:HG21	0.98	1.45
3:M:101:LEU:CG	3:M:106:LYS:HA	1.47	1.45
2:B:230:PHE:CZ	2:B:252:LEU:CD2	1.97	1.45
1:A:147:LEU:HD22	1:A:166:LEU:CD2	1.46	1.44
1:A:408:ILE:CG2	4:S:64:ASN:CB	1.96	1.44
2:B:247:TYR:CE2	3:M:91:THR:HG21	1.50	1.44
2:B:311:TYR:HE2	2:B:342:ALA:CB	1.30	1.44
3:M:104:PHE:CE2	3:M:113:LYS:NZ	1.83	1.44
2:B:527:PRO:CB	2:B:587:ARG:HG3	1.47	1.44
2:B:216:LYS:CA	2:B:251:LEU:HD13	1.44	1.44
2:B:549:LEU:CD2	2:B:611:ALA:CA	1.96	1.44
2:B:219:TYR:CE1	2:B:226:LEU:CD1	1.99	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:109:LEU:HD12	4:S:113:PHE:CD1	1.48	1.43
1:A:96:SER:N	1:A:127:LEU:CD2	1.78	1.43
1:A:101:GLN:HG3	4:S:160:ALA:CB	1.44	1.43
2:B:178:ILE:HG13	2:B:215:TYR:N	1.30	1.43
2:B:566:ALA:O	2:B:574:ASN:CB	1.65	1.43
1:A:100:LEU:N	4:S:162:SER:HB2	1.24	1.43
1:A:107:TYR:CE2	1:A:128:LEU:HD21	1.49	1.43
1:A:217:ALA:C	4:S:142:ILE:HB	1.43	1.43
4:S:109:LEU:CD1	4:S:113:PHE:CD1	2.00	1.43
1:A:185:LEU:CD1	1:A:203:PHE:HE1	1.30	1.42
2:B:219:TYR:CE1	2:B:226:LEU:HD13	1.53	1.42
2:B:260:LEU:CD2	2:B:291:TYR:OH	1.66	1.42
2:B:279:LEU:N	2:B:288:TYR:HB2	1.10	1.42
2:B:549:LEU:CD2	2:B:611:ALA:CB	1.96	1.42
1:A:633:PHE:CD2	2:B:550:VAL:C	1.97	1.42
2:B:87:VAL:CG1	2:B:122:SER:CB	1.79	1.42
2:B:106:LEU:CD1	2:B:144:ASP:CB	1.95	1.42
2:B:219:TYR:CD1	2:B:226:LEU:HD22	1.52	1.42
1:A:212:ILE:CD1	4:S:145:ASN:HD21	1.25	1.42
2:B:20:ARG:CD	2:B:21:GLU:HB2	1.49	1.42
1:A:629:LEU:CD1	2:B:610:ARG:NH1	1.80	1.42
2:B:311:TYR:CE2	2:B:342:ALA:HB2	1.54	1.42
2:B:546:CYS:CB	2:B:607:ILE:HG12	0.94	1.42
3:M:245:ASP:N	3:M:472:TYR:CD1	1.87	1.42
2:B:309:LEU:HB3	2:B:317:VAL:CG1	1.48	1.41
1:A:594:PHE:HB3	2:B:473:ASN:CB	1.49	1.41
1:A:631:SER:CB	2:B:557:SER:OG	1.66	1.41
2:B:20:ARG:NH1	2:B:21:GLU:CG	1.83	1.41
2:B:422:ALA:HB3	2:B:424:PHE:CE1	1.53	1.41
3:M:69:ILE:HD12	3:M:90:PHE:CZ	1.49	1.41
2:B:108:PHE:CZ	2:B:115:LEU:HG	1.52	1.41
2:B:546:CYS:HB2	2:B:607:ILE:CD1	1.48	1.41
2:B:546:CYS:CB	2:B:607:ILE:CG1	1.83	1.41
2:B:29:LYS:HE2	2:B:30:LEU:N	1.32	1.41
3:M:65:TYR:CZ	3:M:86:PRO:HB3	1.52	1.41
1:A:250:ASN:OD1	1:A:285:THR:CG2	1.67	1.40
2:B:319:LEU:CD1	2:B:358:MET:HG3	0.93	1.40
1:A:215:VAL:CG2	1:A:243:ILE:HD12	1.49	1.40
2:B:549:LEU:CD2	2:B:611:ALA:HB2	1.49	1.40
4:S:73:ILE:CG2	4:S:88:ILE:CG2	1.98	1.40
1:A:111:SER:CB	1:A:152:THR:OG1	1.67	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:17:VAL:HG21	4:S:19:PHE:CZ	1.54	1.40
1:A:102:GLN:HG2	4:S:166:LYS:N	1.13	1.40
2:B:352:ASN:CB	3:M:49:ASP:OD2	1.69	1.40
3:M:339:GLU:CD	3:M:412:ARG:HE	1.24	1.40
2:B:422:ALA:HB3	2:B:424:PHE:CD1	1.57	1.40
3:M:319:SER:CB	3:M:346:ASN:HB2	1.48	1.40
1:A:450:TYR:OH	1:A:476:GLN:CG	1.66	1.39
2:B:158:VAL:CG1	2:B:177:ILE:CG1	2.01	1.39
3:M:260:LEU:CD2	3:M:449:VAL:HG22	1.50	1.39
1:A:633:PHE:CB	2:B:550:VAL:HG12	1.52	1.39
3:M:222:PHE:O	3:M:479:PHE:CE2	1.75	1.39
2:B:215:TYR:CD1	2:B:233:TYR:CE1	2.11	1.39
4:S:109:LEU:CD1	4:S:113:PHE:CE1	2.04	1.39
1:A:403:LEU:HD21	1:A:421:PRO:C	1.48	1.38
2:B:87:VAL:CG1	2:B:122:SER:HB3	0.92	1.38
2:B:170:ARG:HA	2:B:199:LEU:CD2	1.53	1.38
3:M:281:GLY:O	3:M:282:VAL:CG2	1.72	1.38
2:B:140:SER:HB2	2:B:172:GLU:CD	1.46	1.38
1:A:288:THR:CG2	1:A:322:PHE:CZ	2.06	1.38
2:B:62:ALA:O	2:B:66:ILE:CG1	1.70	1.38
2:B:171:GLY:CA	2:B:207:VAL:CG1	2.01	1.38
2:B:549:LEU:HD22	2:B:611:ALA:CB	1.50	1.38
2:B:223:LEU:HD13	2:B:259:TYR:CB	1.53	1.37
1:A:142:LYS:N	4:S:159:ALA:HB2	1.33	1.37
2:B:215:TYR:HD1	2:B:233:TYR:CE1	1.43	1.37
2:B:343:LEU:HD12	2:B:359:LEU:CD1	1.55	1.37
2:B:261:PRO:HG2	2:B:292:GLU:N	1.08	1.37
3:M:290:PHE:CE1	3:M:297:PHE:CD1	2.13	1.37
1:A:595:GLU:CG	2:B:469:ASP:HB3	1.53	1.37
1:A:629:LEU:HD11	2:B:610:ARG:NH1	1.09	1.36
2:B:123:LEU:HD12	2:B:142:LEU:CD2	1.52	1.36
2:B:143:SER:C	2:B:179:LYS:CD	1.97	1.36
2:B:230:PHE:CZ	2:B:252:LEU:HD22	1.57	1.36
3:M:443:SER:HB3	3:M:447:ILE:CG1	1.55	1.36
2:B:106:LEU:CD1	2:B:144:ASP:HB3	1.54	1.36
2:B:274:PRO:HG2	2:B:295:ASN:CG	1.45	1.36
2:B:353:GLN:NE2	3:M:47:SER:CB	1.86	1.36
3:M:223:HIS:HA	3:M:479:PHE:CE2	1.58	1.36
4:S:8:PHE:CZ	4:S:84:TYR:HB3	1.58	1.36
2:B:261:PRO:CG	2:B:292:GLU:H	1.37	1.36
1:A:96:SER:CB	1:A:127:LEU:HD11	1.54	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:288:THR:HG21	1:A:322:PHE:CE2	1.57	1.35
4:S:17:VAL:CG2	4:S:19:PHE:CZ	2.09	1.35
2:B:278:PRO:CA	2:B:288:TYR:C	1.99	1.35
1:A:182:ILE:HG22	1:A:221:VAL:CG2	1.54	1.35
1:A:102:GLN:CA	4:S:167:ILE:HG12	1.57	1.35
2:B:181:TYR:CD2	2:B:218:CYS:O	1.79	1.35
3:M:215:TYR:CD2	3:M:469:GLY:N	1.91	1.35
1:A:107:TYR:CE2	1:A:128:LEU:CD2	2.07	1.34
1:A:136:GLY:O	1:A:139:ASP:HB3	1.24	1.34
2:B:181:TYR:HD2	2:B:218:CYS:C	1.32	1.34
2:B:208:ILE:CD1	2:B:236:ILE:CG2	1.94	1.34
2:B:393:ILE:CG2	2:B:431:MET:HG2	1.54	1.34
1:A:219:VAL:O	1:A:259:LEU:HD11	1.26	1.34
1:A:224:GLU:CB	4:S:138:GLY:O	1.73	1.34
2:B:219:TYR:CD1	2:B:226:LEU:CG	2.09	1.34
2:B:274:PRO:C	2:B:295:ASN:HD21	1.35	1.34
3:M:217:ASP:CB	3:M:470:ALA:C	2.00	1.34
4:S:53:THR:HB	4:S:69:ASN:N	1.02	1.34
2:B:223:LEU:HD13	2:B:259:TYR:CA	1.53	1.34
3:M:245:ASP:O	3:M:472:TYR:CE1	1.80	1.34
1:A:291:ILE:CG2	1:A:318:ARG:HB3	1.57	1.33
2:B:197:LYS:HA	2:B:229:HIS:CD2	1.61	1.33
4:S:8:PHE:CB	4:S:36:TYR:HE2	1.36	1.33
1:A:105:VAL:CG2	4:S:167:ILE:HD12	1.47	1.33
1:A:185:LEU:CD1	1:A:203:PHE:CE1	2.09	1.33
1:A:255:ARG:NH2	4:S:135:ILE:CG2	1.92	1.33
3:M:101:LEU:O	3:M:106:LYS:N	1.58	1.33
2:B:37:TYR:OH	2:B:46:GLN:CD	1.71	1.33
2:B:252:LEU:CD1	2:B:302:PHE:CE1	2.10	1.33
2:B:566:ALA:HA	2:B:574:ASN:CB	1.55	1.33
1:A:520:GLY:CA	1:A:558:VAL:HG22	1.56	1.33
2:B:353:GLN:NE2	3:M:47:SER:HB3	1.00	1.33
2:B:559:ASP:CB	2:B:563:PHE:CD1	2.08	1.33
1:A:463:ASP:O	2:B:1:MET:HG3	1.15	1.33
2:B:546:CYS:HA	2:B:607:ILE:CG2	1.58	1.33
4:S:53:THR:CB	4:S:69:ASN:N	1.90	1.33
1:A:141:VAL:HG12	4:S:159:ALA:CB	1.59	1.32
2:B:106:LEU:CD1	2:B:144:ASP:O	1.73	1.32
2:B:519:ALA:O	2:B:523:PHE:CB	1.74	1.32
2:B:2:VAL:HG12	2:B:6:HIS:NE2	1.21	1.32
2:B:41:ASN:HB3	2:B:43:ASN:OD1	1.23	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:219:TYR:CD1	2:B:226:LEU:CD2	2.11	1.32
2:B:393:ILE:HG23	2:B:431:MET:CB	1.56	1.32
2:B:230:PHE:CE2	2:B:298:ASP:O	1.80	1.32
2:B:556:LEU:CD2	2:B:588:ILE:HG12	1.57	1.32
2:B:193:LEU:O	2:B:195:ILE:N	1.60	1.32
2:B:219:TYR:CG	2:B:255:TYR:CE1	2.17	1.32
3:M:244:VAL:CA	3:M:472:TYR:CD2	2.09	1.32
1:A:103:LYS:HE3	1:A:131:ASP:OD1	1.19	1.32
2:B:352:ASN:CA	3:M:49:ASP:OD2	1.76	1.32
2:B:519:ALA:O	2:B:523:PHE:HB3	1.16	1.31
3:M:67:SER:OG	3:M:90:PHE:CD1	1.71	1.31
1:A:138:ASN:OD1	4:S:158:LYS:CE	1.77	1.31
1:A:255:ARG:NH2	4:S:135:ILE:HG23	1.41	1.31
2:B:512:VAL:C	2:B:551:LEU:HD13	1.55	1.31
3:M:104:PHE:CE1	3:M:113:LYS:NZ	1.84	1.31
3:M:125:PHE:O	3:M:129:VAL:CG2	1.77	1.31
2:B:62:ALA:O	2:B:66:ILE:CD1	1.79	1.31
2:B:343:LEU:CD2	2:B:362:ALA:HB3	1.60	1.31
3:M:454:ILE:CG2	3:M:464:THR:HG21	1.61	1.31
4:S:53:THR:CA	4:S:69:ASN:HB2	1.60	1.31
1:A:105:VAL:CB	4:S:167:ILE:HD13	1.59	1.31
1:A:140:VAL:CA	1:A:177:ILE:CG1	2.07	1.31
1:A:170:LEU:O	1:A:206:LYS:HD2	1.26	1.31
1:A:251:TRP:CH2	4:S:103:GLN:HB2	1.66	1.31
3:M:283:PHE:CE2	3:M:289:THR:OG1	1.81	1.31
1:A:105:VAL:N	4:S:167:ILE:CD1	1.92	1.31
1:A:176:TYR:CB	4:S:155:GLU:HG3	1.61	1.31
1:A:332:TYR:CD1	1:A:366:SER:OG	1.77	1.31
1:A:631:SER:CB	2:B:557:SER:CB	2.07	1.31
2:B:117:LEU:HD21	2:B:149:SER:OG	1.25	1.31
2:B:230:PHE:HE2	2:B:298:ASP:O	1.06	1.31
1:A:429:VAL:CB	1:A:469:LEU:HD11	1.59	1.30
1:A:633:PHE:CD1	2:B:513:TRP:CZ3	2.19	1.30
2:B:123:LEU:CD1	2:B:142:LEU:CG	2.08	1.30
3:M:65:TYR:CE1	3:M:86:PRO:HB3	1.63	1.30
1:A:252:ILE:HA	4:S:144:THR:OG1	1.13	1.30
2:B:158:VAL:HG11	2:B:177:ILE:CD1	1.61	1.30
2:B:143:SER:C	2:B:179:LYS:HD2	1.50	1.30
2:B:566:ALA:C	2:B:574:ASN:CB	2.04	1.30
2:B:216:LYS:CA	2:B:251:LEU:CD1	2.01	1.30
3:M:218:LEU:HA	3:M:472:TYR:CE2	1.67	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:8:PHE:CB	4:S:36:TYR:CE2	2.13	1.30
4:S:8:PHE:HB2	4:S:36:TYR:CE2	1.66	1.30
2:B:140:SER:CB	2:B:172:GLU:OE1	1.80	1.30
2:B:245:GLN:CD	2:B:309:LEU:CD1	2.05	1.30
2:B:559:ASP:O	2:B:563:PHE:N	1.64	1.30
3:M:60:LEU:HD22	3:M:62:VAL:CG2	1.60	1.30
3:M:317:MET:HB3	3:M:320:ILE:O	1.13	1.30
1:A:384:LEU:CD2	1:A:441:TYR:CE2	2.14	1.29
2:B:170:ARG:NH1	2:B:198:GLU:HG2	1.45	1.29
2:B:307:ASN:HD21	2:B:336:ASN:ND2	1.27	1.29
2:B:353:GLN:CG	3:M:47:SER:C	2.06	1.29
4:S:48:SER:CB	4:S:77:TYR:C	2.06	1.29
1:A:275:LEU:HD13	1:A:308:ASP:OD1	1.23	1.29
1:A:633:PHE:CD2	2:B:551:LEU:N	2.01	1.29
1:A:633:PHE:CD1	2:B:550:VAL:HG12	1.68	1.29
2:B:513:TRP:N	2:B:551:LEU:HD13	0.97	1.29
2:B:566:ALA:CA	2:B:574:ASN:HB3	1.62	1.29
1:A:128:LEU:HD13	1:A:150:LEU:CG	1.62	1.28
2:B:178:ILE:CG1	2:B:214:ALA:C	2.05	1.28
3:M:221:THR:CB	3:M:474:THR:O	1.81	1.28
4:S:39:ILE:HD11	4:S:77:TYR:CD2	1.68	1.28
1:A:147:LEU:CD1	1:A:181:ALA:HA	1.62	1.28
2:B:24:ALA:HB3	2:B:35:TYR:CZ	1.66	1.28
2:B:279:LEU:H	2:B:288:TYR:CB	1.44	1.28
2:B:418:TYR:OH	2:B:432:ALA:HB2	1.18	1.28
1:A:633:PHE:CD1	2:B:550:VAL:CG1	2.14	1.28
2:B:77:ILE:O	2:B:79:VAL:N	1.64	1.28
2:B:181:TYR:HD2	2:B:218:CYS:O	0.95	1.28
2:B:227:HIS:O	2:B:229:HIS:N	1.64	1.28
2:B:546:CYS:SG	2:B:607:ILE:HG12	1.71	1.28
3:M:241:HIS:O	3:M:474:THR:HB	1.29	1.28
3:M:319:SER:HB3	3:M:346:ASN:N	1.48	1.28
4:S:9:ASN:OD1	4:S:13:GLN:N	1.63	1.28
1:A:403:LEU:HD22	1:A:422:GLU:CG	1.64	1.28
2:B:116:THR:CG2	2:B:150:LEU:HD11	1.62	1.28
3:M:379:LEU:HD22	3:M:386:PHE:CG	1.65	1.28
1:A:633:PHE:CE2	2:B:551:LEU:N	1.98	1.28
2:B:226:LEU:HB3	2:B:255:TYR:OH	1.21	1.28
2:B:563:PHE:HD2	2:B:584:SER:CB	1.45	1.28
2:B:274:PRO:HG2	2:B:295:ASN:OD1	1.13	1.27
1:A:463:ASP:O	2:B:1:MET:CG	1.80	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:315:PRO:HB3	2:B:352:ASN:OD1	1.34	1.27
3:M:449:VAL:HG11	3:M:452:ILE:CD1	1.63	1.27
2:B:140:SER:HB2	2:B:172:GLU:OE1	1.10	1.27
2:B:225:LEU:HD12	2:B:283:TYR:OH	1.21	1.27
3:M:339:GLU:HG3	3:M:412:ARG:CG	1.63	1.27
1:A:516:ILE:HG22	1:A:554:ALA:CB	1.63	1.27
2:B:549:LEU:CD1	2:B:611:ALA:HA	1.63	1.27
3:M:214:LEU:C	3:M:467:TYR:HB3	1.57	1.27
2:B:127:LEU:CD1	2:B:157:THR:CG2	1.84	1.27
2:B:353:GLN:HG3	3:M:47:SER:O	1.26	1.27
2:B:513:TRP:CA	2:B:551:LEU:CD1	2.10	1.27
3:M:66:PHE:CA	3:M:77:LEU:HD11	1.63	1.27
3:M:443:SER:CB	3:M:447:ILE:HG13	1.65	1.27
2:B:162:VAL:HG22	2:B:199:LEU:CG	1.66	1.26
2:B:316:THR:CG2	3:M:90:PHE:CE2	2.15	1.26
2:B:252:LEU:HD12	2:B:302:PHE:CE1	1.65	1.26
2:B:278:PRO:CG	2:B:292:GLU:OE1	1.83	1.26
2:B:337:THR:CA	2:B:373:LEU:HD21	1.64	1.26
2:B:21:GLU:HA	2:B:24:ALA:CB	1.66	1.26
2:B:29:LYS:CE	2:B:30:LEU:H	1.48	1.26
2:B:70:MET:HE1	2:B:104:TYR:O	1.33	1.26
2:B:123:LEU:HD13	2:B:142:LEU:CG	1.64	1.26
2:B:219:TYR:CB	2:B:255:TYR:CE1	2.16	1.26
2:B:352:ASN:HA	3:M:49:ASP:CG	1.39	1.26
3:M:268:GLY:N	3:M:302:TYR:OH	1.69	1.26
4:S:14:PRO:HA	4:S:36:TYR:OH	1.33	1.25
1:A:250:ASN:OD1	1:A:285:THR:HG22	1.20	1.25
1:A:633:PHE:CE1	2:B:513:TRP:CZ3	2.24	1.25
1:A:96:SER:CA	1:A:127:LEU:HD21	1.65	1.25
1:A:204:VAL:CG2	1:A:236:LEU:HD21	1.64	1.25
3:M:342:LEU:HD11	3:M:411:LEU:CD2	1.65	1.25
1:A:101:GLN:C	4:S:167:ILE:HG13	1.59	1.25
1:A:141:VAL:CG1	4:S:159:ALA:HB3	1.67	1.25
1:A:211:ASP:CG	4:S:148:ARG:HD3	1.60	1.25
2:B:219:TYR:CG	2:B:226:LEU:HB2	1.72	1.25
3:M:101:LEU:HA	3:M:109:LEU:CD1	1.65	1.25
3:M:224:VAL:H	3:M:479:PHE:CB	1.50	1.25
1:A:138:ASN:OD1	4:S:158:LYS:HE3	1.08	1.25
2:B:553:ALA:HB2	2:B:614:ILE:CD1	1.63	1.25
2:B:556:LEU:HD23	2:B:588:ILE:CG1	1.66	1.25
3:M:217:ASP:HB2	3:M:470:ALA:O	1.33	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:218:LEU:HA	3:M:472:TYR:CD2	1.72	1.25
3:M:241:HIS:O	3:M:474:THR:CB	1.83	1.25
3:M:260:LEU:HD23	3:M:449:VAL:CG2	1.67	1.25
1:A:102:GLN:HB2	4:S:163:THR:CB	1.65	1.25
1:A:399:ASP:O	1:A:420:ILE:O	1.55	1.25
1:A:633:PHE:CD2	2:B:551:LEU:CA	2.07	1.25
2:B:25:VAL:HG11	2:B:36:THR:OG1	1.34	1.25
2:B:225:LEU:HD13	2:B:283:TYR:CE1	1.70	1.25
2:B:291:TYR:CE2	2:B:294:VAL:HB	1.69	1.25
3:M:254:PRO:HB3	3:M:454:ILE:CD1	1.65	1.25
1:A:103:LYS:H	4:S:163:THR:CB	1.49	1.24
2:B:219:TYR:CZ	2:B:226:LEU:N	2.03	1.24
2:B:245:GLN:CD	2:B:309:LEU:HD11	1.56	1.24
4:S:53:THR:CG2	4:S:67:GLU:O	1.85	1.24
1:A:96:SER:CA	1:A:127:LEU:HD11	1.66	1.24
1:A:220:SER:CB	4:S:142:ILE:HG22	1.65	1.24
2:B:158:VAL:CG1	2:B:177:ILE:HD11	1.66	1.24
2:B:159:LYS:HA	2:B:195:ILE:CD1	1.67	1.24
3:M:272:LEU:CD2	3:M:278:ILE:HB	1.67	1.24
2:B:70:MET:HE3	2:B:107:ARG:CG	1.68	1.24
2:B:143:SER:O	2:B:179:LYS:CD	1.85	1.24
4:S:56:SER:O	4:S:60:SER:CB	1.86	1.24
3:M:219:LEU:CB	3:M:472:TYR:O	1.85	1.24
3:M:244:VAL:HG13	3:M:472:TYR:CE2	1.72	1.24
3:M:449:VAL:CG1	3:M:452:ILE:CD1	2.14	1.24
1:A:101:GLN:CG	4:S:160:ALA:HB1	1.56	1.24
1:A:513:ARG:CD	1:A:550:VAL:HG21	1.65	1.24
1:A:637:GLU:CG	2:B:516:GLY:H	1.49	1.24
1:A:516:ILE:CG2	1:A:554:ALA:HB3	1.67	1.23
1:A:631:SER:HB2	2:B:557:SER:OG	1.23	1.23
2:B:24:ALA:CB	2:B:35:TYR:CZ	2.21	1.23
2:B:37:TYR:HD2	2:B:38:TYR:CD1	1.55	1.23
2:B:162:VAL:HG23	2:B:195:ILE:CG2	1.51	1.23
2:B:199:LEU:O	2:B:201:ALA:N	1.71	1.23
3:M:432:THR:OG1	3:M:480:GLN:CG	1.86	1.23
4:S:53:THR:HB	4:S:69:ASN:CA	1.66	1.23
2:B:86:VAL:CG1	2:B:101:ILE:HG23	1.66	1.23
2:B:223:LEU:CD1	2:B:259:TYR:N	2.01	1.23
2:B:584:SER:O	2:B:588:ILE:HG22	1.08	1.23
3:M:217:ASP:CB	3:M:470:ALA:O	1.85	1.23
4:S:8:PHE:CD1	4:S:84:TYR:HB2	1.71	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:LEU:HB3	1:A:184:ALA:CB	1.69	1.23
1:A:326:GLN:HA	1:A:331:ARG:NH2	1.54	1.23
1:A:557:LYS:HE2	2:B:606:ASP:N	0.92	1.23
2:B:143:SER:O	2:B:179:LYS:HD3	1.09	1.23
2:B:219:TYR:CZ	2:B:226:LEU:CB	2.01	1.23
2:B:278:PRO:CB	2:B:288:TYR:O	1.85	1.23
3:M:378:ILE:O	3:M:413:GLY:HA3	1.12	1.23
4:S:8:PHE:CZ	4:S:84:TYR:CB	2.16	1.23
1:A:217:ALA:CB	4:S:142:ILE:HD12	1.68	1.23
2:B:261:PRO:CG	2:B:292:GLU:N	1.98	1.23
2:B:277:CYS:O	2:B:288:TYR:HB3	1.06	1.23
3:M:66:PHE:CB	3:M:77:LEU:HD11	1.43	1.23
2:B:212:VAL:CG2	2:B:248:LEU:HD21	1.69	1.22
3:M:9:ASP:C	3:M:75:TRP:CD1	2.16	1.22
4:S:47:GLN:NE2	4:S:79:ASN:N	1.86	1.22
1:A:88:ASN:CB	1:A:120:ILE:HD12	1.68	1.22
1:A:212:ILE:HD12	4:S:145:ASN:ND2	0.91	1.22
1:A:291:ILE:HG23	1:A:318:ARG:CB	1.69	1.22
1:A:609:LEU:HG	1:A:628:VAL:CB	1.67	1.22
2:B:216:LYS:CB	2:B:251:LEU:CD1	2.16	1.22
2:B:472:VAL:CG1	2:B:510:GLY:HA3	1.68	1.22
1:A:219:VAL:C	1:A:259:LEU:CD1	2.13	1.22
1:A:563:CYS:CB	1:A:621:LEU:HD12	1.68	1.22
2:B:20:ARG:CZ	2:B:21:GLU:HG3	1.68	1.22
2:B:181:TYR:CD2	2:B:218:CYS:C	2.15	1.22
2:B:219:TYR:CD1	2:B:226:LEU:HD13	1.74	1.22
2:B:275:ARG:N	2:B:295:ASN:ND2	1.87	1.22
2:B:479:VAL:HG22	2:B:486:HIS:CD2	1.73	1.22
3:M:221:THR:OG1	3:M:474:THR:O	1.56	1.22
1:A:92:LEU:HD21	1:A:120:ILE:O	1.38	1.22
2:B:135:ARG:NH2	2:B:164:ASP:OD1	1.72	1.22
2:B:219:TYR:CB	2:B:255:TYR:HE1	1.52	1.22
2:B:542:PRO:HA	2:B:602:ASP:OD2	1.29	1.22
4:S:48:SER:CB	4:S:77:TYR:CB	2.18	1.22
4:S:73:ILE:HG21	4:S:88:ILE:CG2	1.65	1.22
3:M:222:PHE:C	3:M:479:PHE:CZ	2.18	1.22
1:A:96:SER:CB	1:A:127:LEU:CD1	2.16	1.21
2:B:171:GLY:N	2:B:207:VAL:HG13	1.53	1.21
2:B:223:LEU:CD2	2:B:255:TYR:CE1	2.23	1.21
4:S:131:VAL:CG2	4:S:153:VAL:HG22	1.69	1.21
1:A:638:LEU:HB2	2:B:516:GLY:O	1.36	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:20:ARG:NE	2:B:21:GLU:HB2	1.55	1.21
2:B:352:ASN:CA	3:M:49:ASP:CG	2.10	1.21
1:A:217:ALA:CB	4:S:142:ILE:CG1	2.19	1.21
1:A:219:VAL:CG1	1:A:259:LEU:HD13	1.70	1.21
2:B:231:ARG:HG3	2:B:298:ASP:OD1	1.39	1.21
2:B:277:CYS:O	2:B:288:TYR:CB	1.88	1.21
3:M:2:TYR:O	3:M:81:SER:HB2	1.38	1.21
1:A:105:VAL:CG2	4:S:167:ILE:HG23	1.69	1.21
1:A:213:SER:O	4:S:143:GLU:CG	1.87	1.21
1:A:219:VAL:O	1:A:259:LEU:CD1	1.87	1.21
2:B:87:VAL:HG13	2:B:122:SER:OG	1.39	1.21
4:S:34:GLN:OE1	4:S:58:LEU:HD21	1.32	1.21
4:S:47:GLN:CD	4:S:79:ASN:N	1.97	1.21
1:A:101:GLN:HE21	4:S:167:ILE:CG2	1.53	1.21
2:B:47:LEU:CD2	2:B:66:ILE:CG1	2.02	1.21
2:B:79:VAL:HB	2:B:108:PHE:CE1	1.74	1.21
2:B:105:LEU:HB3	2:B:145:MET:CE	1.71	1.21
2:B:219:TYR:CD1	2:B:226:LEU:CB	2.07	1.21
2:B:290:SER:O	2:B:292:GLU:N	1.67	1.21
2:B:219:TYR:HB3	2:B:255:TYR:CE1	1.76	1.20
4:S:15:ARG:NH1	4:S:122:ILE:HD11	1.54	1.20
1:A:140:VAL:CA	1:A:177:ILE:HG12	1.70	1.20
1:A:557:LYS:HB3	2:B:605:PHE:CD2	1.76	1.20
2:B:124:GLN:HA	2:B:157:THR:OG1	1.38	1.20
2:B:344:VAL:HG13	2:B:381:PHE:CZ	1.76	1.20
2:B:531:ARG:HA	2:B:591:MET:SD	1.80	1.20
3:M:319:SER:CB	3:M:346:ASN:CB	2.18	1.20
3:M:339:GLU:CD	3:M:412:ARG:NE	1.98	1.20
1:A:125:THR:OG1	1:A:158:LEU:HD13	1.38	1.20
1:A:388:VAL:HG13	1:A:432:ILE:CD1	1.70	1.20
2:B:37:TYR:CD2	2:B:38:TYR:CD1	2.28	1.20
2:B:127:LEU:CB	2:B:157:THR:CG2	2.19	1.20
4:S:34:GLN:OE1	4:S:58:LEU:HD11	1.35	1.20
2:B:219:TYR:CE1	2:B:226:LEU:CG	2.22	1.20
2:B:278:PRO:HA	2:B:288:TYR:CA	1.69	1.20
3:M:222:PHE:CD1	3:M:240:ILE:HG23	1.75	1.20
1:A:96:SER:N	1:A:127:LEU:HD21	0.89	1.20
2:B:162:VAL:CB	2:B:195:ILE:HG23	1.72	1.20
2:B:261:PRO:CA	2:B:290:SER:HB3	1.49	1.20
1:A:211:ASP:OD1	4:S:148:ARG:HD3	1.02	1.19
1:A:316:LEU:CD1	1:A:348:PHE:CD2	2.26	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:594:PHE:CB	2:B:473:ASN:HB2	1.72	1.19
2:B:62:ALA:O	2:B:66:ILE:HG13	1.21	1.19
2:B:219:TYR:CE2	2:B:226:LEU:HB2	1.75	1.19
2:B:513:TRP:CA	2:B:551:LEU:CD2	2.20	1.19
3:M:243:ILE:H	3:M:474:THR:CG2	1.53	1.19
3:M:443:SER:OG	3:M:447:ILE:C	1.84	1.19
4:S:47:GLN:NE2	4:S:79:ASN:H	1.38	1.19
1:A:559:PHE:CE1	1:A:581:LEU:HD22	1.76	1.19
1:A:631:SER:HA	2:B:557:SER:CB	1.71	1.19
2:B:25:VAL:HG23	2:B:35:TYR:CD2	1.77	1.19
2:B:267:ASP:N	2:B:289:PRO:CB	2.00	1.19
2:B:278:PRO:HG2	2:B:292:GLU:OE1	1.41	1.19
2:B:291:TYR:CD2	2:B:294:VAL:HG12	1.61	1.19
3:M:340:LEU:O	3:M:411:LEU:HB3	1.39	1.19
1:A:102:GLN:CB	4:S:166:LYS:HB2	1.71	1.19
1:A:634:ASN:O	2:B:516:GLY:C	1.86	1.19
2:B:197:LYS:O	2:B:199:LEU:N	1.74	1.19
2:B:279:LEU:N	2:B:288:TYR:CB	2.02	1.19
2:B:513:TRP:CA	2:B:551:LEU:HD13	1.66	1.19
1:A:217:ALA:HB2	4:S:143:GLU:HG3	1.23	1.19
2:B:291:TYR:CD2	2:B:294:VAL:HG11	1.68	1.19
2:B:311:TYR:CE2	2:B:342:ALA:CB	2.17	1.19
2:B:393:ILE:HG23	2:B:431:MET:CG	1.71	1.19
2:B:546:CYS:CA	2:B:607:ILE:HG23	1.72	1.19
3:M:246:VAL:HB	3:M:297:PHE:CZ	1.75	1.19
1:A:185:LEU:HD12	1:A:203:PHE:CE1	1.74	1.19
1:A:605:GLU:CG	1:A:632:PHE:CD2	2.26	1.19
2:B:108:PHE:CE2	2:B:115:LEU:HB2	1.78	1.19
2:B:151:ALA:O	2:B:188:TYR:CE2	1.85	1.19
2:B:223:LEU:HD22	2:B:255:TYR:CE1	1.78	1.19
2:B:582:ASP:O	2:B:584:SER:HB3	1.43	1.19
1:A:101:GLN:CG	4:S:167:ILE:HG21	1.72	1.18
1:A:179:LYS:HE3	4:S:143:GLU:CB	1.73	1.18
1:A:275:LEU:O	1:A:276:PRO:C	1.73	1.18
2:B:223:LEU:CD1	2:B:259:TYR:HA	1.57	1.18
1:A:502:ASP:OD2	1:A:506:LYS:NZ	1.72	1.18
3:M:217:ASP:CG	3:M:471:LYS:HA	1.67	1.18
1:A:275:LEU:HD21	1:A:311:THR:OG1	1.41	1.18
2:B:25:VAL:CG1	2:B:36:THR:OG1	1.92	1.18
2:B:225:LEU:CD1	2:B:283:TYR:OH	1.91	1.18
2:B:267:ASP:N	2:B:289:PRO:HB3	1.53	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:277:CYS:SG	2:B:292:GLU:HG3	1.83	1.18
2:B:303:LEU:CD1	2:B:333:GLN:CB	2.22	1.18
2:B:531:ARG:CA	2:B:591:MET:SD	2.31	1.18
3:M:66:PHE:CB	3:M:77:LEU:CD1	2.21	1.18
3:M:319:SER:OG	3:M:346:ASN:CB	1.92	1.18
4:S:135:ILE:O	4:S:141:VAL:HA	1.40	1.18
2:B:422:ALA:CB	2:B:424:PHE:CE1	2.26	1.18
3:M:338:PHE:CD2	3:M:415:ILE:HG13	1.78	1.18
1:A:103:LYS:O	1:A:107:TYR:CD1	1.97	1.18
2:B:98:LYS:NZ	2:B:134:LEU:HB3	1.58	1.18
4:S:130:SER:OG	4:S:156:LEU:CD1	1.89	1.18
2:B:12:LEU:O	2:B:16:LYS:HB2	1.42	1.17
2:B:56:SER:CB	2:B:92:THR:HG21	1.74	1.17
2:B:315:PRO:HB3	2:B:355:ASN:ND2	1.58	1.17
2:B:567:GLN:O	2:B:569:THR:OG1	1.54	1.17
2:B:47:LEU:HD22	2:B:66:ILE:HG12	1.20	1.17
2:B:170:ARG:HH12	2:B:198:GLU:CG	1.57	1.17
3:M:244:VAL:HA	3:M:472:TYR:CE2	1.77	1.17
1:A:102:GLN:HB3	4:S:166:LYS:CB	1.74	1.17
1:A:166:LEU:CD1	1:A:185:LEU:HD23	1.73	1.17
1:A:631:SER:CA	2:B:557:SER:CB	2.21	1.17
2:B:461:HIS:O	2:B:462:ASN:C	1.74	1.17
1:A:141:VAL:C	4:S:159:ALA:HB2	1.70	1.17
1:A:253:ILE:HD11	1:A:281:LEU:HD22	1.20	1.17
1:A:399:ASP:CA	1:A:420:ILE:HB	1.74	1.17
1:A:595:GLU:CG	2:B:469:ASP:CB	2.14	1.17
2:B:171:GLY:HA3	2:B:207:VAL:CG1	1.70	1.17
2:B:252:LEU:HB2	2:B:302:PHE:CZ	1.78	1.17
2:B:360:LEU:CD1	2:B:391:ALA:HA	1.73	1.17
1:A:71:VAL:CG1	1:A:105:VAL:HG12	1.71	1.17
2:B:278:PRO:CD	2:B:292:GLU:OE1	1.91	1.17
2:B:523:PHE:HZ	2:B:580:TYR:CE2	1.63	1.17
2:B:545:ARG:HD3	2:B:602:ASP:HB2	1.25	1.17
3:M:226:PHE:HB2	3:M:481:VAL:HG22	1.17	1.17
3:M:336:ASP:OD1	3:M:415:ILE:O	1.62	1.17
1:A:105:VAL:N	4:S:167:ILE:HD11	1.53	1.16
1:A:185:LEU:HD13	1:A:203:PHE:CE1	1.71	1.16
1:A:557:LYS:HD3	2:B:605:PHE:HB3	1.24	1.16
1:A:631:SER:HA	2:B:557:SER:HB3	1.24	1.16
2:B:353:GLN:CD	3:M:47:SER:CB	2.18	1.16
3:M:260:LEU:CD2	3:M:449:VAL:CG2	2.20	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:99:LYS:HD3	4:S:164:ASP:H	1.06	1.16
1:A:107:TYR:CD2	1:A:128:LEU:HD21	1.80	1.16
2:B:479:VAL:CG2	2:B:486:HIS:CD2	2.29	1.16
2:B:83:PHE:HE2	2:B:119:SER:CA	1.58	1.16
2:B:216:LYS:CG	2:B:251:LEU:HD13	1.76	1.16
2:B:497:LEU:HD23	2:B:533:LEU:CD2	1.75	1.16
3:M:215:TYR:CD1	3:M:468:LYS:CA	2.27	1.16
3:M:339:GLU:HG3	3:M:412:ARG:CD	1.74	1.16
1:A:147:LEU:CD2	1:A:166:LEU:CD2	2.23	1.16
1:A:219:VAL:HG21	1:A:256:LEU:HD21	1.22	1.16
3:M:219:LEU:HD13	3:M:472:TYR:O	1.45	1.16
4:S:80:TYR:O	4:S:82:THR:N	1.78	1.16
1:A:103:LYS:CE	1:A:131:ASP:OD1	1.94	1.16
1:A:213:SER:O	4:S:143:GLU:HG2	0.99	1.16
1:A:216:SER:HB3	4:S:143:GLU:HA	1.18	1.16
2:B:175:LEU:CG	2:B:210:CYS:HB3	1.75	1.16
2:B:275:ARG:CG	2:B:294:VAL:CG1	2.16	1.16
2:B:275:ARG:N	2:B:295:ASN:HD21	1.41	1.16
3:M:219:LEU:CD1	3:M:472:TYR:O	1.94	1.16
1:A:217:ALA:O	4:S:142:ILE:HB	1.43	1.15
1:A:421:PRO:HG2	1:A:424:TYR:CE1	1.81	1.15
3:M:92:PHE:CZ	3:M:129:VAL:HG22	1.79	1.15
3:M:379:LEU:CD2	3:M:386:PHE:CD1	2.28	1.15
4:S:53:THR:C	4:S:69:ASN:CB	2.18	1.15
2:B:37:TYR:HH	2:B:46:GLN:CD	1.47	1.15
2:B:219:TYR:CZ	2:B:226:LEU:HA	1.78	1.15
2:B:556:LEU:CD2	2:B:588:ILE:CG1	2.24	1.15
4:S:53:THR:CB	4:S:68:VAL:C	2.18	1.15
4:S:53:THR:HG21	4:S:67:GLU:O	1.44	1.15
1:A:103:LYS:H	4:S:163:THR:CG2	1.57	1.15
1:A:104:ARG:HA	1:A:145:ILE:HG21	1.22	1.15
1:A:147:LEU:CD2	1:A:166:LEU:HD23	1.77	1.15
2:B:80:GLN:HG2	2:B:115:LEU:HD11	1.18	1.15
2:B:151:ALA:HA	2:B:180:LEU:CD1	1.74	1.15
2:B:275:ARG:HG3	2:B:291:TYR:CD2	1.79	1.15
2:B:393:ILE:CG2	2:B:431:MET:CG	2.23	1.15
3:M:319:SER:HB3	3:M:346:ASN:CB	1.74	1.15
3:M:338:PHE:CE2	3:M:415:ILE:HG13	1.81	1.15
4:S:34:GLN:OE1	4:S:58:LEU:CD2	1.93	1.15
1:A:163:ALA:CB	1:A:195:ALA:HB1	1.76	1.15
1:A:630:PRO:CB	2:B:614:ILE:HG12	1.75	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:162:VAL:CG2	2:B:195:ILE:HG22	1.76	1.15
2:B:223:LEU:HD12	2:B:259:TYR:CA	1.64	1.15
2:B:230:PHE:CD2	2:B:298:ASP:HB3	1.81	1.15
1:A:102:GLN:HB2	4:S:163:THR:CA	1.77	1.15
1:A:147:LEU:HD12	1:A:181:ALA:HA	1.29	1.15
1:A:219:VAL:HG13	1:A:259:LEU:HD13	1.24	1.15
1:A:450:TYR:OH	1:A:476:GLN:HG2	1.34	1.15
1:A:450:TYR:OH	1:A:476:GLN:HG3	1.42	1.15
2:B:132:SER:HA	2:B:169:VAL:HG21	1.20	1.15
1:A:630:PRO:HG2	2:B:614:ILE:HA	1.22	1.14
2:B:158:VAL:CG1	2:B:177:ILE:CD1	2.17	1.14
2:B:353:GLN:CG	3:M:49:ASP:H	1.59	1.14
2:B:513:TRP:HA	2:B:551:LEU:CG	1.76	1.14
1:A:92:LEU:HD11	1:A:120:ILE:HA	1.20	1.14
1:A:140:VAL:N	1:A:177:ILE:HD11	1.61	1.14
1:A:288:THR:OG1	1:A:291:ILE:HB	1.43	1.14
1:A:609:LEU:CG	1:A:628:VAL:HB	1.78	1.14
3:M:340:LEU:O	3:M:411:LEU:CB	1.92	1.14
1:A:101:GLN:HE21	4:S:167:ILE:HG22	1.10	1.14
1:A:629:LEU:HD11	2:B:610:ARG:CZ	1.77	1.14
2:B:2:VAL:HG12	2:B:6:HIS:CE1	1.82	1.14
2:B:154:ILE:HD12	2:B:180:LEU:CD1	1.78	1.14
2:B:523:PHE:CE1	2:B:580:TYR:HD2	1.66	1.14
1:A:251:TRP:HH2	4:S:103:GLN:OE1	1.27	1.14
1:A:555:LEU:HD13	1:A:581:LEU:HD11	1.21	1.14
1:A:586:GLU:O	1:A:587:ASN:C	1.83	1.14
1:A:609:LEU:CD2	1:A:628:VAL:HG21	1.78	1.14
2:B:127:LEU:CD2	2:B:161:LEU:CD2	2.06	1.14
2:B:127:LEU:HD22	2:B:161:LEU:HD22	1.24	1.14
2:B:566:ALA:C	2:B:574:ASN:HD22	1.56	1.14
1:A:67:LYS:H	4:S:165:SER:HB2	1.00	1.14
1:A:176:TYR:HB3	4:S:155:GLU:HG3	1.28	1.14
1:A:638:LEU:HD12	2:B:518:ILE:CG2	1.78	1.14
2:B:260:LEU:CA	2:B:291:TYR:CE1	2.21	1.14
2:B:556:LEU:HD22	2:B:588:ILE:HG12	1.16	1.14
3:M:343:ASN:HA	3:M:408:VAL:HG13	1.21	1.14
1:A:178:ARG:HD3	1:A:209:ASP:OD2	1.48	1.13
1:A:217:ALA:CB	4:S:142:ILE:CD1	2.24	1.13
1:A:403:LEU:HD22	1:A:422:GLU:CD	1.70	1.13
2:B:79:VAL:HG23	2:B:108:PHE:CZ	1.82	1.13
2:B:196:LEU:HB2	2:B:229:HIS:CE1	1.83	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:7:ILE:HG21	4:S:121:LEU:HD21	1.26	1.13
1:A:262:ASN:O	1:A:265:GLN:O	1.65	1.13
1:A:399:ASP:HA	1:A:420:ILE:CB	1.77	1.13
1:A:631:SER:O	2:B:554:LYS:HG3	1.49	1.13
2:B:219:TYR:CD1	2:B:226:LEU:CD1	2.27	1.13
2:B:275:ARG:HB3	2:B:291:TYR:HB3	1.19	1.13
2:B:400:SER:HB2	2:B:439:CYS:SG	1.87	1.13
3:M:283:PHE:CE2	3:M:289:THR:CB	2.31	1.13
3:M:319:SER:OG	3:M:346:ASN:HB2	0.99	1.13
1:A:637:GLU:HG2	2:B:516:GLY:H	1.11	1.13
2:B:197:LYS:CA	2:B:229:HIS:NE2	2.11	1.13
2:B:260:LEU:HD22	2:B:291:TYR:CZ	1.83	1.13
2:B:563:PHE:CD2	2:B:584:SER:CB	2.32	1.13
3:M:125:PHE:O	3:M:129:VAL:HG23	0.98	1.13
3:M:224:VAL:N	3:M:479:PHE:CG	2.15	1.13
3:M:323:MET:SD	3:M:342:LEU:HG	1.88	1.13
4:S:5:VAL:CG2	4:S:132:LEU:CD2	2.00	1.13
4:S:34:GLN:OE1	4:S:58:LEU:CD1	1.95	1.13
1:A:253:ILE:HD13	1:A:281:LEU:HB3	1.25	1.13
1:A:557:LYS:NZ	2:B:604:GLU:CG	1.70	1.13
1:A:595:GLU:HG3	2:B:469:ASP:CA	1.61	1.13
2:B:108:PHE:CE2	2:B:115:LEU:CB	2.30	1.13
2:B:513:TRP:CA	2:B:551:LEU:HD22	1.77	1.13
3:M:451:ALA:C	3:M:452:ILE:HD12	1.72	1.13
2:B:123:LEU:O	2:B:127:LEU:HG	1.48	1.12
2:B:566:ALA:CA	2:B:574:ASN:CB	2.21	1.13
2:B:584:SER:O	2:B:588:ILE:CG2	1.97	1.13
2:B:139:LEU:CD2	2:B:173:VAL:CA	1.95	1.12
2:B:200:MET:HG2	2:B:232:ARG:HB3	1.23	1.12
2:B:527:PRO:CB	2:B:587:ARG:CG	2.27	1.12
2:B:559:ASP:HB2	2:B:563:PHE:CE1	1.83	1.12
1:A:244:LEU:HD13	1:A:256:LEU:CD1	1.79	1.12
1:A:252:ILE:CA	4:S:144:THR:OG1	1.96	1.12
2:B:174:ALA:CB	2:B:211:ALA:HA	1.79	1.12
2:B:178:ILE:O	2:B:180:LEU:N	1.83	1.12
2:B:212:VAL:O	2:B:214:ALA:N	1.82	1.12
2:B:334:MET:HA	2:B:334:MET:HE2	1.28	1.12
2:B:537:PHE:CZ	2:B:545:ARG:HG2	1.84	1.12
3:M:18:TYR:CD1	3:M:122:SER:CA	2.30	1.12
4:S:48:SER:CB	4:S:77:TYR:O	1.96	1.12
1:A:74:LEU:HD22	1:A:87:CYS:SG	1.90	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:219:VAL:HG11	1:A:256:LEU:HD23	1.31	1.12
1:A:225:LEU:HD13	1:A:233:PHE:CZ	1.83	1.12
1:A:255:ARG:HH22	4:S:135:ILE:CG2	1.58	1.12
2:B:418:TYR:OH	2:B:432:ALA:CB	1.96	1.12
2:B:483:PRO:HB3	2:B:521:ILE:CG2	1.79	1.12
3:M:342:LEU:CD1	3:M:411:LEU:HB2	1.78	1.12
1:A:215:VAL:HG22	1:A:243:ILE:HD12	1.23	1.12
1:A:225:LEU:CD1	1:A:233:PHE:CZ	2.31	1.12
2:B:230:PHE:CE1	2:B:252:LEU:CD2	2.24	1.12
2:B:393:ILE:HG22	2:B:431:MET:HG2	1.23	1.12
2:B:563:PHE:HD2	2:B:584:SER:HB2	1.05	1.12
3:M:217:ASP:HB2	3:M:470:ALA:C	1.67	1.12
3:M:222:PHE:C	3:M:479:PHE:CE2	2.28	1.12
1:A:182:ILE:CG2	1:A:221:VAL:HG21	1.79	1.12
1:A:637:GLU:CG	2:B:516:GLY:N	2.12	1.12
2:B:25:VAL:CG2	2:B:35:TYR:HD2	1.61	1.12
2:B:336:ASN:O	2:B:337:THR:HB	1.50	1.12
2:B:549:LEU:HD11	2:B:611:ALA:CA	1.78	1.12
3:M:243:ILE:N	3:M:474:THR:HG22	1.64	1.12
3:M:272:LEU:HD22	3:M:278:ILE:HB	1.20	1.12
1:A:128:LEU:HD12	1:A:150:LEU:HD21	1.21	1.11
1:A:251:TRP:CZ2	4:S:103:GLN:CB	2.32	1.11
2:B:127:LEU:CG	2:B:157:THR:HG21	1.78	1.11
2:B:290:SER:O	2:B:291:TYR:C	1.75	1.11
2:B:353:GLN:HG2	3:M:49:ASP:N	1.64	1.11
2:B:437:SER:HA	2:B:478:LEU:HD21	1.14	1.11
2:B:549:LEU:CD1	2:B:611:ALA:CB	2.27	1.11
3:M:223:HIS:CA	3:M:479:PHE:CD2	2.33	1.11
3:M:265:ASN:OD1	3:M:313:SER:OG	1.67	1.11
3:M:432:THR:OG1	3:M:480:GLN:HG3	0.94	1.11
4:S:53:THR:O	4:S:69:ASN:CB	1.97	1.11
1:A:99:LYS:NZ	4:S:164:ASP:HB2	1.65	1.11
2:B:144:ASP:HA	2:B:179:LYS:NZ	1.63	1.11
2:B:219:TYR:CD2	2:B:226:LEU:HB2	1.84	1.11
2:B:234:CYS:O	2:B:237:ILE:HG22	1.49	1.11
2:B:274:PRO:C	2:B:295:ASN:ND2	2.08	1.11
3:M:45:SER:HB2	3:M:51:LEU:HD11	1.18	1.11
1:A:102:GLN:HB2	4:S:163:THR:HB	1.15	1.11
1:A:217:ALA:HB1	4:S:142:ILE:CG1	1.81	1.11
1:A:403:LEU:HD22	1:A:422:GLU:HG3	1.16	1.11
2:B:352:ASN:HB3	3:M:49:ASP:OD2	1.42	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:353:GLN:CD	3:M:47:SER:HB2	1.76	1.11
2:B:472:VAL:CG1	2:B:510:GLY:CA	2.25	1.11
2:B:483:PRO:CB	2:B:521:ILE:HG21	1.81	1.11
3:M:18:TYR:CD1	3:M:122:SER:HA	1.66	1.11
4:S:73:ILE:HG23	4:S:88:ILE:CG2	1.77	1.11
2:B:219:TYR:CG	2:B:226:LEU:HD22	1.83	1.11
2:B:319:LEU:HD11	2:B:358:MET:CG	1.70	1.11
3:M:219:LEU:HD22	3:M:473:LYS:HA	1.13	1.11
1:A:103:LYS:CB	4:S:163:THR:HG21	1.80	1.11
1:A:204:VAL:HG22	1:A:236:LEU:HD21	1.18	1.11
2:B:24:ALA:CB	2:B:35:TYR:CE2	2.32	1.11
2:B:106:LEU:HD12	2:B:144:ASP:O	1.43	1.11
2:B:136:CYS:C	2:B:172:GLU:HG3	1.75	1.11
2:B:307:ASN:ND2	2:B:336:ASN:ND2	1.98	1.11
1:A:132:LEU:O	1:A:169:MET:HE3	1.47	1.10
1:A:224:GLU:HB2	4:S:138:GLY:C	1.75	1.10
1:A:408:ILE:CG2	4:S:64:ASN:CA	2.28	1.10
2:B:121:ASN:OD1	2:B:153:ILE:CD1	1.97	1.10
2:B:127:LEU:HB3	2:B:161:LEU:CD1	1.80	1.10
2:B:343:LEU:HD22	2:B:362:ALA:CB	1.80	1.10
3:M:319:SER:HB3	3:M:346:ASN:CA	1.79	1.10
1:A:163:ALA:HB2	1:A:195:ALA:CB	1.80	1.10
2:B:25:VAL:HG23	2:B:35:TYR:HD2	0.94	1.10
2:B:37:TYR:CD2	2:B:38:TYR:HD1	1.65	1.10
2:B:212:VAL:HG22	2:B:248:LEU:HD21	1.30	1.10
3:M:221:THR:HB	3:M:474:THR:O	1.50	1.10
1:A:101:GLN:HG2	4:S:167:ILE:HG21	1.32	1.10
1:A:102:GLN:CB	4:S:163:THR:HB	1.72	1.10
2:B:231:ARG:CG	2:B:298:ASP:OD1	1.98	1.10
2:B:267:ASP:HB3	2:B:289:PRO:HD3	1.31	1.10
2:B:497:LEU:HD11	2:B:508:ARG:NH1	1.67	1.10
2:B:549:LEU:HD21	2:B:611:ALA:N	0.78	1.10
1:A:631:SER:HB3	2:B:557:SER:OG	1.45	1.10
2:B:227:HIS:CD2	2:B:292:GLU:OE2	2.05	1.10
3:M:317:MET:CB	3:M:320:ILE:O	1.98	1.10
3:M:339:GLU:HG3	3:M:412:ARG:HG2	1.16	1.10
4:S:5:VAL:CB	4:S:132:LEU:CD2	2.29	1.10
4:S:9:ASN:HD21	4:S:13:GLN:CG	1.64	1.10
1:A:204:VAL:CG2	1:A:236:LEU:CD2	2.26	1.10
1:A:408:ILE:HG23	4:S:64:ASN:CA	1.82	1.10
2:B:2:VAL:HG12	2:B:6:HIS:CD2	1.86	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:25:VAL:HG21	2:B:36:THR:OG1	1.51	1.10
2:B:127:LEU:CG	2:B:157:THR:CG2	2.27	1.10
2:B:139:LEU:HD21	2:B:173:VAL:O	1.49	1.10
2:B:162:VAL:HG21	2:B:195:ILE:CG2	1.62	1.10
2:B:512:VAL:HG11	2:B:548:ILE:HA	1.17	1.10
2:B:566:ALA:CA	2:B:574:ASN:CG	2.25	1.10
1:A:253:ILE:HG12	1:A:281:LEU:CD1	1.80	1.09
1:A:520:GLY:HA3	1:A:558:VAL:CG2	1.81	1.09
3:M:101:LEU:HA	3:M:109:LEU:HD11	1.23	1.09
1:A:440:ASN:CG	1:A:442:SER:HB3	1.77	1.09
1:A:488:ARG:HG2	1:A:522:PHE:CE2	1.88	1.09
1:A:637:GLU:OE1	2:B:513:TRP:CD1	2.06	1.09
2:B:108:PHE:CZ	2:B:115:LEU:CG	2.34	1.09
2:B:170:ARG:CA	2:B:199:LEU:HD22	1.82	1.09
2:B:178:ILE:HA	2:B:218:CYS:HB2	1.28	1.09
2:B:208:ILE:HD13	2:B:236:ILE:HG23	1.17	1.09
2:B:343:LEU:CD1	2:B:359:LEU:HD13	1.80	1.09
2:B:353:GLN:HG2	3:M:49:ASP:H	1.06	1.09
2:B:566:ALA:C	2:B:574:ASN:ND2	2.11	1.09
3:M:92:PHE:HZ	3:M:129:VAL:HG22	0.98	1.09
1:A:142:LYS:N	4:S:159:ALA:CB	2.16	1.09
1:A:254:ILE:HG23	1:A:293:GLU:HG2	1.32	1.09
1:A:260:PHE:O	1:A:261:THR:C	1.78	1.09
2:B:20:ARG:HD2	2:B:21:GLU:CB	1.83	1.09
2:B:79:VAL:CG2	2:B:108:PHE:CE1	2.36	1.09
2:B:151:ALA:HA	2:B:180:LEU:HD11	1.16	1.09
2:B:223:LEU:HD11	2:B:258:GLN:C	1.77	1.09
2:B:553:ALA:HB2	2:B:614:ILE:HD13	1.11	1.09
3:M:342:LEU:HD11	3:M:411:LEU:HD22	1.18	1.09
4:S:109:LEU:HD11	4:S:113:PHE:CD1	1.85	1.09
1:A:103:LYS:HG3	4:S:163:THR:CG2	1.82	1.09
2:B:219:TYR:OH	2:B:226:LEU:HA	1.50	1.09
2:B:515:PHE:HE2	2:B:529:VAL:HG21	1.15	1.09
2:B:530:LEU:HG	2:B:591:MET:HB3	1.32	1.09
2:B:568:VAL:O	2:B:571:SER:HB2	1.49	1.09
3:M:443:SER:HB3	3:M:447:ILE:HG13	1.17	1.09
4:S:5:VAL:CB	4:S:132:LEU:HD21	1.81	1.09
4:S:53:THR:HB	4:S:68:VAL:C	1.77	1.09
1:A:182:ILE:HD13	1:A:218:ALA:HB2	1.34	1.09
2:B:225:LEU:HD13	2:B:283:TYR:HE1	1.05	1.09
2:B:292:GLU:CG	2:B:296:ASP:HB2	1.82	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:542:PRO:HA	2:B:602:ASP:CG	1.76	1.09
3:M:267:ILE:HD12	3:M:445:SER:OG	1.52	1.09
1:A:67:LYS:N	4:S:165:SER:HB2	1.68	1.08
1:A:105:VAL:HB	4:S:167:ILE:HD13	1.34	1.08
1:A:141:VAL:HG21	4:S:158:LYS:H	1.03	1.08
1:A:513:ARG:HD2	1:A:550:VAL:CG2	1.81	1.08
2:B:197:LYS:N	2:B:229:HIS:NE2	2.01	1.08
3:M:217:ASP:H	3:M:470:ALA:HB3	1.07	1.08
1:A:132:LEU:HD22	1:A:169:MET:CG	1.82	1.08
1:A:140:VAL:HA	1:A:177:ILE:HG13	1.22	1.08
1:A:215:VAL:HG22	1:A:243:ILE:CD1	1.82	1.08
1:A:298:ILE:HD11	1:A:311:THR:HG21	1.33	1.08
1:A:408:ILE:CG2	4:S:64:ASN:HB3	1.70	1.08
1:A:429:VAL:HB	1:A:469:LEU:CD1	1.82	1.08
1:A:448:GLU:HB2	1:A:487:MET:SD	1.93	1.08
2:B:343:LEU:HD12	2:B:359:LEU:HD13	1.23	1.08
3:M:65:TYR:CE2	3:M:86:PRO:HB3	1.88	1.08
3:M:323:MET:HB3	3:M:340:LEU:HD11	1.21	1.08
3:M:435:LEU:O	3:M:479:PHE:CD2	2.06	1.08
4:S:5:VAL:CG1	4:S:132:LEU:HD22	1.83	1.08
1:A:217:ALA:HA	4:S:142:ILE:CA	1.63	1.08
1:A:224:GLU:HB2	4:S:138:GLY:O	0.92	1.08
2:B:107:ARG:O	2:B:110:GLU:N	1.87	1.08
2:B:267:ASP:C	2:B:276:SER:HB2	1.79	1.08
2:B:347:VAL:HG22	2:B:359:LEU:HB3	1.23	1.08
2:B:534:ILE:HD13	2:B:594:ALA:HB3	1.33	1.08
2:B:566:ALA:O	2:B:574:ASN:HB2	0.91	1.08
3:M:245:ASP:N	3:M:472:TYR:CE1	2.20	1.08
1:A:103:LYS:N	4:S:163:THR:CB	2.16	1.08
2:B:56:SER:HB3	2:B:92:THR:HG21	1.31	1.08
2:B:175:LEU:HG	2:B:210:CYS:HB3	1.11	1.08
2:B:215:TYR:HB3	2:B:226:LEU:HD11	1.29	1.08
2:B:400:SER:CB	2:B:439:CYS:SG	2.42	1.08
2:B:497:LEU:HD23	2:B:533:LEU:HD21	1.09	1.08
2:B:567:GLN:HG3	2:B:569:THR:OG1	1.53	1.08
3:M:336:ASP:O	3:M:414:CYS:SG	2.10	1.08
1:A:68:THR:HA	4:S:166:LYS:C	1.76	1.08
1:A:68:THR:HA	4:S:167:ILE:N	1.67	1.08
1:A:132:LEU:O	1:A:169:MET:CE	2.00	1.08
1:A:170:LEU:O	1:A:206:LYS:CD	2.00	1.08
1:A:219:VAL:HG21	1:A:256:LEU:CD2	1.82	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:523:SER:OG	1:A:562:TRP:NE1	1.85	1.08
1:A:609:LEU:HD21	1:A:628:VAL:CG2	1.83	1.08
2:B:175:LEU:HD21	2:B:210:CYS:HA	1.32	1.08
2:B:178:ILE:CG1	2:B:215:TYR:N	2.13	1.08
2:B:216:LYS:HB2	2:B:251:LEU:HD13	1.31	1.08
2:B:307:ASN:ND2	2:B:336:ASN:HD21	1.48	1.08
2:B:319:LEU:HD11	2:B:358:MET:HG3	1.29	1.08
3:M:454:ILE:HG21	3:M:464:THR:CG2	1.84	1.08
4:S:15:ARG:CZ	4:S:122:ILE:HD11	1.84	1.08
1:A:132:LEU:HD22	1:A:169:MET:HG3	1.13	1.07
1:A:182:ILE:HG22	1:A:221:VAL:HG21	1.20	1.07
2:B:21:GLU:HA	2:B:24:ALA:HB2	1.35	1.07
2:B:105:LEU:HB3	2:B:145:MET:HE1	1.10	1.07
2:B:159:LYS:CA	2:B:195:ILE:HD11	1.84	1.07
2:B:175:LEU:HD11	2:B:210:CYS:SG	1.94	1.07
2:B:227:HIS:C	2:B:229:HIS:H	1.59	1.07
2:B:279:LEU:HG	2:B:288:TYR:HD1	1.12	1.07
2:B:292:GLU:OE2	2:B:296:ASP:OD2	1.71	1.07
2:B:352:ASN:HA	3:M:49:ASP:OD2	1.37	1.07
2:B:396:ILE:HD13	2:B:432:ALA:HB2	1.36	1.07
2:B:433:VAL:HG12	2:B:474:VAL:CB	1.84	1.07
3:M:254:PRO:HB3	3:M:454:ILE:HD12	1.26	1.07
4:S:53:THR:HG21	4:S:68:VAL:CA	1.83	1.07
2:B:197:LYS:CA	2:B:229:HIS:CD2	2.36	1.07
2:B:208:ILE:HG12	2:B:236:ILE:HD13	1.31	1.07
2:B:247:TYR:CE2	3:M:91:THR:CG2	2.36	1.07
2:B:247:TYR:CZ	3:M:91:THR:HG21	1.87	1.07
2:B:316:THR:OG1	3:M:90:PHE:HZ	1.37	1.07
2:B:458:MET:SD	2:B:471:TYR:HB3	1.94	1.07
1:A:251:TRP:CZ2	4:S:103:GLN:HB2	1.90	1.07
1:A:322:PHE:CD2	1:A:330:LEU:HD21	1.88	1.07
1:A:509:PRO:HB3	1:A:547:VAL:CG2	1.84	1.07
1:A:555:LEU:HD13	1:A:581:LEU:CD1	1.84	1.07
1:A:633:PHE:CB	2:B:550:VAL:CG1	2.22	1.07
1:A:633:PHE:HB2	2:B:550:VAL:CG1	1.80	1.07
2:B:123:LEU:HD12	2:B:142:LEU:CG	1.79	1.07
2:B:135:ARG:NH2	2:B:164:ASP:CG	2.12	1.07
2:B:278:PRO:HD3	2:B:289:PRO:O	1.52	1.07
2:B:353:GLN:CB	3:M:49:ASP:N	2.09	1.07
3:M:217:ASP:N	3:M:470:ALA:HB3	1.70	1.07
3:M:219:LEU:HB2	3:M:472:TYR:O	1.54	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:53:THR:O	4:S:69:ASN:HB2	1.50	1.07
4:S:73:ILE:HG21	4:S:88:ILE:HG21	1.33	1.07
2:B:278:PRO:CA	2:B:288:TYR:O	2.00	1.07
2:B:418:TYR:O	2:B:419:VAL:C	1.88	1.07
3:M:217:ASP:HB3	3:M:470:ALA:C	1.67	1.07
4:S:5:VAL:HG11	4:S:132:LEU:HD22	1.09	1.07
1:A:166:LEU:HD13	1:A:185:LEU:CD2	1.85	1.07
1:A:384:LEU:HD22	1:A:441:TYR:CZ	1.88	1.07
1:A:384:LEU:HD13	1:A:435:ILE:CG2	1.85	1.07
2:B:154:ILE:HD12	2:B:180:LEU:HD13	1.12	1.07
2:B:367:SER:OG	2:B:401:THR:HG21	1.55	1.07
2:B:549:LEU:HD23	2:B:607:ILE:O	1.54	1.07
2:B:560:ILE:HG23	2:B:564:LYS:HB2	1.35	1.07
4:S:53:THR:CG2	4:S:67:GLU:C	2.27	1.07
1:A:207:LEU:HD23	1:A:239:LEU:HB2	1.29	1.06
1:A:237:SER:HB2	1:A:270:LEU:HD13	1.37	1.06
1:A:594:PHE:HB3	2:B:473:ASN:HB3	1.32	1.06
2:B:77:ILE:HG22	2:B:82:TYR:HE1	1.18	1.06
2:B:120:ILE:HA	2:B:142:LEU:HD21	1.34	1.06
2:B:132:SER:HA	2:B:169:VAL:CG2	1.85	1.06
2:B:143:SER:C	2:B:179:LYS:HD3	1.70	1.06
2:B:158:VAL:HG11	2:B:177:ILE:HG13	1.34	1.06
2:B:219:TYR:CE1	2:B:226:LEU:CA	2.27	1.06
2:B:278:PRO:C	2:B:288:TYR:HB2	1.78	1.06
2:B:515:PHE:CE2	2:B:529:VAL:HG21	1.89	1.06
2:B:537:PHE:CE1	2:B:545:ARG:HG2	1.91	1.06
3:M:45:SER:CB	3:M:51:LEU:HD11	1.85	1.06
4:S:53:THR:HG21	4:S:68:VAL:HA	1.36	1.06
1:A:636:TYR:HB2	2:B:554:LYS:HZ2	1.19	1.06
2:B:175:LEU:HD23	2:B:210:CYS:O	1.53	1.06
2:B:291:TYR:HE2	2:B:294:VAL:HB	0.90	1.06
2:B:343:LEU:HD11	2:B:359:LEU:HA	1.06	1.06
3:M:215:TYR:CG	3:M:468:LYS:CA	2.38	1.06
1:A:67:LYS:HB3	1:A:94:VAL:HG22	1.32	1.06
1:A:80:TYR:HB2	1:A:82:PHE:CD2	1.90	1.06
1:A:204:VAL:HG22	1:A:236:LEU:HD22	1.21	1.06
1:A:211:ASP:OD2	4:S:148:ARG:NH1	1.89	1.06
2:B:62:ALA:C	2:B:66:ILE:HD12	1.80	1.06
2:B:212:VAL:O	2:B:213:LEU:C	1.83	1.06
2:B:225:LEU:CD1	2:B:283:TYR:CE1	2.36	1.06
2:B:303:LEU:HD11	2:B:333:GLN:HB3	1.31	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:527:PRO:CG	2:B:587:ARG:HG3	1.85	1.06
3:M:374:TYR:O	3:M:390:ILE:HD12	1.51	1.06
1:A:295:VAL:HG22	1:A:315:CYS:HB3	1.25	1.06
2:B:29:LYS:CE	2:B:30:LEU:N	2.11	1.06
2:B:127:LEU:HD23	2:B:161:LEU:HD21	1.07	1.06
2:B:178:ILE:CG2	2:B:217:GLU:HB2	1.85	1.06
2:B:274:PRO:CG	2:B:295:ASN:OD1	2.03	1.06
3:M:302:TYR:CD2	3:M:445:SER:HB3	1.90	1.06
3:M:338:PHE:CE2	3:M:415:ILE:CG1	2.39	1.06
1:A:207:LEU:CD2	1:A:239:LEU:HB2	1.85	1.06
1:A:215:VAL:HG21	1:A:243:ILE:HD12	1.31	1.06
1:A:258:LYS:HZ1	4:S:97:ALA:HB2	1.20	1.06
2:B:177:ILE:HB	2:B:196:LEU:HD21	1.37	1.06
2:B:256:CYS:SG	2:B:299:LEU:HD23	1.96	1.06
2:B:293:VAL:O	2:B:299:LEU:CB	2.04	1.06
2:B:319:LEU:HD13	2:B:358:MET:HG3	1.09	1.06
2:B:437:SER:CA	2:B:478:LEU:HD21	1.86	1.06
2:B:508:ARG:O	2:B:512:VAL:HG23	1.54	1.06
2:B:527:PRO:HB3	2:B:587:ARG:HG3	1.32	1.06
1:A:533:ILE:HG12	1:A:562:TRP:CH2	1.91	1.05
2:B:25:VAL:CG2	2:B:36:THR:OG1	2.04	1.05
2:B:219:TYR:OH	2:B:226:LEU:N	1.87	1.05
2:B:433:VAL:CG1	2:B:474:VAL:CG2	2.12	1.05
2:B:546:CYS:CA	2:B:607:ILE:HG12	1.85	1.05
3:M:226:PHE:N	3:M:480:GLN:O	1.89	1.05
3:M:360:LEU:HD23	3:M:362:PHE:CZ	1.90	1.05
1:A:225:LEU:HD13	1:A:233:PHE:HZ	0.99	1.05
1:A:408:ILE:HG21	4:S:64:ASN:C	1.82	1.05
1:A:630:PRO:O	2:B:554:LYS:CA	2.05	1.05
2:B:79:VAL:CB	2:B:108:PHE:CE1	2.38	1.05
2:B:116:THR:HG22	2:B:150:LEU:HD11	1.35	1.05
2:B:549:LEU:CD1	2:B:611:ALA:CA	2.31	1.05
3:M:60:LEU:CD2	3:M:62:VAL:HG23	1.86	1.05
3:M:66:PHE:HA	3:M:77:LEU:HD11	1.38	1.05
3:M:244:VAL:O	3:M:299:LEU:N	1.88	1.05
1:A:67:LYS:H	4:S:165:SER:CB	1.68	1.05
1:A:166:LEU:CD1	1:A:185:LEU:CD2	2.33	1.05
1:A:200:PHE:CE1	1:A:232:PRO:O	2.09	1.05
1:A:260:PHE:CD2	1:A:274:LEU:HG	1.91	1.05
1:A:629:LEU:CG	2:B:610:ARG:NH1	2.18	1.05
1:A:630:PRO:HG3	2:B:614:ILE:HG13	1.27	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:633:PHE:CD1	2:B:513:TRP:CE3	2.40	1.05
2:B:77:ILE:HG22	2:B:82:TYR:CE1	1.92	1.05
3:M:348:LYS:HG3	3:M:405:THR:HG22	1.38	1.05
1:A:557:LYS:HE3	2:B:606:ASP:HB2	1.38	1.05
1:A:631:SER:CA	2:B:557:SER:HB3	1.82	1.05
2:B:286:ILE:O	2:B:287:GLU:O	1.73	1.05
2:B:315:PRO:CB	2:B:352:ASN:OD1	2.04	1.05
2:B:404:ASN:O	2:B:405:GLU:C	1.80	1.05
3:M:341:SER:OG	3:M:343:ASN:ND2	1.88	1.05
3:M:342:LEU:HD13	3:M:411:LEU:HB2	1.38	1.05
4:S:80:TYR:O	4:S:81:ALA:C	1.98	1.05
1:A:101:GLN:HG2	4:S:167:ILE:CG2	1.86	1.05
1:A:176:TYR:HB2	4:S:155:GLU:HG3	1.33	1.05
2:B:20:ARG:HD2	2:B:21:GLU:HB2	1.15	1.05
2:B:245:GLN:CG	2:B:309:LEU:HD11	1.85	1.05
2:B:309:LEU:HB3	2:B:317:VAL:HG12	1.07	1.05
2:B:545:ARG:CD	2:B:602:ASP:HB2	1.86	1.05
3:M:64:LYS:NZ	3:M:79:SER:O	1.90	1.05
3:M:244:VAL:HB	3:M:300:LEU:HG	1.39	1.05
4:S:8:PHE:HB2	4:S:36:TYR:HE2	0.90	1.05
1:A:182:ILE:HG22	1:A:221:VAL:HG23	1.33	1.04
1:A:528:ASN:O	1:A:529:GLY:C	1.92	1.04
2:B:2:VAL:CG1	2:B:6:HIS:CE1	2.36	1.04
2:B:20:ARG:HD2	2:B:35:TYR:OH	1.56	1.04
2:B:154:ILE:HD13	2:B:180:LEU:HB2	1.37	1.04
2:B:162:VAL:HG22	2:B:199:LEU:HG	1.11	1.04
2:B:219:TYR:HE1	2:B:226:LEU:CD1	1.51	1.04
3:M:49:ASP:HA	3:M:75:TRP:CH2	1.91	1.04
1:A:67:LYS:O	1:A:71:VAL:HG23	1.58	1.04
1:A:182:ILE:CG2	1:A:221:VAL:CG2	2.33	1.04
1:A:630:PRO:HG2	2:B:614:ILE:CA	1.87	1.04
1:A:633:PHE:CD2	2:B:551:LEU:HA	1.54	1.04
2:B:105:LEU:CB	2:B:145:MET:HE1	1.87	1.04
2:B:158:VAL:HG13	2:B:173:VAL:HG12	1.37	1.04
2:B:162:VAL:HG21	2:B:195:ILE:HG22	1.34	1.04
2:B:178:ILE:HG23	2:B:217:GLU:HB2	1.38	1.04
2:B:215:TYR:HB3	2:B:226:LEU:CD1	1.87	1.04
2:B:278:PRO:HA	2:B:288:TYR:CB	1.87	1.04
2:B:396:ILE:HG12	2:B:418:TYR:CE2	1.93	1.04
2:B:563:PHE:O	2:B:567:GLN:N	1.88	1.04
3:M:327:PHE:HE1	3:M:336:ASP:HB2	1.19	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:VAL:HG11	1:A:105:VAL:HG12	1.36	1.04
1:A:147:LEU:HD22	1:A:166:LEU:HD21	1.07	1.04
1:A:275:LEU:CD1	1:A:308:ASP:CG	2.31	1.04
2:B:162:VAL:HG22	2:B:199:LEU:CD1	1.87	1.04
2:B:537:PHE:CE2	2:B:598:LEU:O	2.11	1.04
2:B:567:GLN:CG	2:B:569:THR:OG1	2.05	1.04
3:M:215:TYR:HD1	3:M:467:TYR:O	1.39	1.04
3:M:245:ASP:N	3:M:472:TYR:CG	2.09	1.04
3:M:323:MET:HE3	3:M:342:LEU:HD23	1.36	1.04
1:A:150:LEU:HB3	1:A:162:ILE:HD13	1.37	1.04
1:A:557:LYS:HE2	2:B:606:ASP:CA	1.86	1.04
1:A:557:LYS:HE3	2:B:606:ASP:CB	1.86	1.04
1:A:594:PHE:CB	2:B:473:ASN:CB	2.34	1.04
2:B:248:LEU:O	2:B:252:LEU:HG	1.58	1.04
2:B:340:ILE:HD11	2:B:366:LEU:HB3	1.38	1.04
3:M:244:VAL:HG13	3:M:472:TYR:CZ	1.92	1.04
1:A:96:SER:HB3	1:A:127:LEU:CD1	1.86	1.04
1:A:251:TRP:CH2	4:S:103:GLN:CB	2.41	1.04
2:B:41:ASN:CB	2:B:43:ASN:OD1	2.04	1.04
2:B:261:PRO:CA	2:B:290:SER:CB	2.35	1.04
2:B:303:LEU:HD11	2:B:333:GLN:CB	1.84	1.04
2:B:309:LEU:CB	2:B:317:VAL:CG1	2.35	1.04
2:B:519:ALA:O	2:B:523:PHE:CD2	2.11	1.04
3:M:222:PHE:HB2	3:M:479:PHE:CZ	1.92	1.04
3:M:223:HIS:CA	3:M:479:PHE:CE2	2.41	1.04
3:M:226:PHE:HZ	3:M:321:GLY:O	1.41	1.04
1:A:103:LYS:H	4:S:163:THR:HG21	1.23	1.03
1:A:104:ARG:CA	1:A:145:ILE:HG21	1.88	1.03
1:A:105:VAL:HG21	4:S:167:ILE:HG23	1.40	1.03
2:B:178:ILE:HD11	2:B:215:TYR:HA	1.07	1.03
2:B:340:ILE:HD13	2:B:366:LEU:HD13	1.32	1.03
2:B:343:LEU:HD21	2:B:362:ALA:HB3	1.35	1.03
2:B:537:PHE:CG	2:B:598:LEU:HB3	1.92	1.03
3:M:214:LEU:O	3:M:467:TYR:N	1.89	1.03
1:A:251:TRP:CZ2	4:S:103:GLN:HB3	1.93	1.03
2:B:158:VAL:CG1	2:B:177:ILE:HG13	1.86	1.03
2:B:175:LEU:HD21	2:B:210:CYS:CA	1.88	1.03
2:B:343:LEU:HD12	2:B:359:LEU:HD12	1.33	1.03
2:B:493:LEU:HG	2:B:511:ILE:HG23	1.40	1.03
2:B:530:LEU:CG	2:B:591:MET:HB3	1.88	1.03
3:M:319:SER:HB3	3:M:346:ASN:H	0.98	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:449:VAL:HG12	3:M:452:ILE:HD11	1.36	1.03
1:A:323:CYS:SG	1:A:334:SER:HB3	1.97	1.03
1:A:397:ASP:O	1:A:418:ILE:HG13	1.59	1.03
2:B:154:ILE:CD1	2:B:180:LEU:HB2	1.87	1.03
2:B:175:LEU:HA	2:B:214:ALA:HB2	1.35	1.03
2:B:508:ARG:CB	2:B:544:THR:HG23	1.87	1.03
3:M:60:LEU:HD23	3:M:61:GLU:N	1.71	1.03
3:M:243:ILE:O	3:M:472:TYR:CD2	2.12	1.03
3:M:290:PHE:CZ	3:M:297:PHE:CG	2.47	1.03
3:M:319:SER:CB	3:M:346:ASN:H	1.70	1.03
1:A:84:MET:O	1:A:85:ALA:C	1.93	1.03
1:A:101:GLN:C	4:S:167:ILE:CG1	2.30	1.03
1:A:140:VAL:CG2	1:A:177:ILE:HG13	1.87	1.03
1:A:401:VAL:CG2	1:A:418:ILE:H	1.70	1.03
2:B:353:GLN:CG	3:M:47:SER:O	2.02	1.03
2:B:424:PHE:CD2	2:B:428:VAL:HG11	1.93	1.03
2:B:542:PRO:CA	2:B:602:ASP:OD2	2.07	1.03
3:M:2:TYR:N	3:M:81:SER:CB	2.22	1.03
3:M:224:VAL:O	3:M:480:GLN:N	1.91	1.03
3:M:243:ILE:H	3:M:474:THR:HG22	0.87	1.03
1:A:132:LEU:HD13	1:A:165:ASP:HB3	1.40	1.03
1:A:176:TYR:CB	4:S:155:GLU:CG	2.35	1.03
1:A:183:THR:O	1:A:186:PHE:HB3	1.59	1.03
1:A:398:GLU:O	1:A:420:ILE:N	1.90	1.03
1:A:594:PHE:HB3	2:B:473:ASN:HB2	1.09	1.03
1:A:605:GLU:HG3	1:A:632:PHE:CE2	1.93	1.03
2:B:120:ILE:HA	2:B:142:LEU:CD2	1.88	1.03
2:B:371:GLN:NE2	2:B:401:THR:O	1.90	1.03
1:A:96:SER:HA	1:A:127:LEU:HD11	1.39	1.02
1:A:140:VAL:HG22	1:A:177:ILE:HG13	1.33	1.02
1:A:225:LEU:HB3	1:A:233:PHE:CE1	1.94	1.02
1:A:323:CYS:SG	1:A:334:SER:CB	2.47	1.02
2:B:215:TYR:CZ	2:B:229:HIS:HB3	1.94	1.02
2:B:274:PRO:CG	2:B:295:ASN:CG	2.32	1.02
2:B:567:GLN:N	2:B:574:ASN:HD22	1.55	1.02
3:M:214:LEU:HD11	3:M:256:VAL:HG21	1.41	1.02
3:M:242:GLY:HA2	3:M:474:THR:HG21	1.40	1.02
1:A:96:SER:HB2	1:A:127:LEU:HD11	1.39	1.02
1:A:111:SER:HB2	1:A:152:THR:OG1	0.86	1.02
1:A:219:VAL:HG22	1:A:240:LEU:HD22	1.42	1.02
1:A:275:LEU:HD13	1:A:308:ASP:CG	1.83	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:463:ASP:O	2:B:1:MET:SD	2.16	1.02
1:A:563:CYS:HA	1:A:566:PHE:HD2	1.23	1.02
1:A:630:PRO:CG	2:B:614:ILE:CG1	1.92	1.02
2:B:243:TRP:CZ3	3:M:91:THR:HA	1.94	1.02
2:B:553:ALA:HB2	2:B:614:ILE:CG1	1.88	1.02
2:B:564:LYS:HD2	2:B:621:GLY:O	1.58	1.02
2:B:566:ALA:HA	2:B:574:ASN:CG	1.83	1.02
2:B:588:ILE:HG23	2:B:618:PHE:CZ	1.93	1.02
3:M:243:ILE:HB	3:M:473:LYS:O	1.55	1.02
4:S:8:PHE:HB3	4:S:36:TYR:CE2	1.92	1.02
4:S:17:VAL:HG22	4:S:19:PHE:CZ	1.94	1.02
1:A:102:GLN:HA	4:S:167:ILE:CG1	1.88	1.02
1:A:102:GLN:OE1	4:S:166:LYS:HG3	1.58	1.02
1:A:217:ALA:O	4:S:142:ILE:CG2	2.06	1.02
1:A:251:TRP:CH2	4:S:103:GLN:OE1	2.11	1.02
2:B:106:LEU:CD1	2:B:144:ASP:HB2	1.74	1.02
2:B:418:TYR:CD1	2:B:418:TYR:C	2.33	1.02
3:M:7:ILE:HA	3:M:76:CYS:HA	1.40	1.02
3:M:65:TYR:CE1	3:M:86:PRO:CB	2.43	1.02
1:A:141:VAL:HB	4:S:159:ALA:N	1.73	1.02
2:B:127:LEU:HB2	2:B:157:THR:HG23	1.39	1.02
2:B:219:TYR:CB	2:B:223:LEU:CD2	2.14	1.02
2:B:267:ASP:H	2:B:289:PRO:HB3	0.88	1.02
2:B:343:LEU:HD22	2:B:362:ALA:HB3	1.33	1.02
4:S:53:THR:HG21	4:S:67:GLU:C	1.83	1.02
1:A:67:LYS:HB2	4:S:165:SER:OG	1.59	1.02
1:A:96:SER:CA	1:A:127:LEU:CD1	2.38	1.02
1:A:200:PHE:HE1	1:A:232:PRO:O	1.39	1.02
1:A:223:CYS:HB2	1:A:259:LEU:HG	1.42	1.02
1:A:399:ASP:O	1:A:420:ILE:C	2.02	1.02
2:B:38:TYR:HA	2:B:42:ILE:H	1.23	1.02
2:B:79:VAL:CG2	2:B:108:PHE:CZ	2.43	1.02
2:B:537:PHE:CD2	2:B:598:LEU:CB	2.43	1.02
4:S:48:SER:CB	4:S:77:TYR:HB2	1.86	1.02
2:B:56:SER:HB3	2:B:92:THR:CG2	1.89	1.01
2:B:155:LEU:HB2	2:B:188:TYR:HD2	1.22	1.01
2:B:261:PRO:HA	2:B:290:SER:HB3	1.03	1.01
2:B:415:LEU:HD13	2:B:436:LEU:HD21	1.39	1.01
2:B:550:VAL:HG22	2:B:610:ARG:HD3	1.37	1.01
3:M:344:ILE:HG23	3:M:347:PHE:CB	1.89	1.01
1:A:101:GLN:HG2	4:S:167:ILE:CB	1.90	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:104:ARG:HG3	1:A:145:ILE:CG1	1.89	1.01
1:A:217:ALA:O	4:S:142:ILE:CB	2.00	1.01
1:A:219:VAL:C	1:A:259:LEU:HD12	1.81	1.01
1:A:253:ILE:CG1	1:A:281:LEU:HD13	1.90	1.01
2:B:178:ILE:HG21	2:B:214:ALA:O	1.60	1.01
2:B:219:TYR:O	2:B:223:LEU:CD2	2.08	1.01
2:B:293:VAL:O	2:B:299:LEU:HB2	1.58	1.01
2:B:513:TRP:HA	2:B:551:LEU:HD22	1.02	1.01
3:M:101:LEU:CG	3:M:106:LYS:CA	2.17	1.01
3:M:212:ASN:CB	3:M:250:LEU:HD23	1.90	1.01
3:M:256:VAL:HG12	3:M:290:PHE:HB3	1.39	1.01
3:M:342:LEU:CD1	3:M:411:LEU:CB	2.37	1.01
4:S:56:SER:O	4:S:60:SER:HB2	1.61	1.01
1:A:253:ILE:CD1	1:A:281:LEU:HD22	1.88	1.01
2:B:70:MET:HE1	2:B:107:ARG:HB2	1.43	1.01
2:B:171:GLY:HA3	2:B:207:VAL:HG13	1.04	1.01
2:B:182:ARG:HD2	2:B:217:GLU:OE1	1.61	1.01
2:B:549:LEU:HD13	2:B:611:ALA:CB	1.89	1.01
2:B:562:ASN:HB3	2:B:580:TYR:HB3	1.39	1.01
1:A:147:LEU:HD22	1:A:166:LEU:HD23	1.35	1.01
1:A:295:VAL:HG11	1:A:319:LEU:HD11	1.42	1.01
1:A:398:GLU:O	1:A:420:ILE:HG13	1.61	1.01
1:A:426:ILE:HG13	1:A:464:ILE:HD13	1.40	1.01
2:B:120:ILE:CG2	2:B:154:ILE:HG13	1.90	1.01
2:B:174:ALA:HB1	2:B:211:ALA:HA	1.40	1.01
2:B:291:TYR:CE2	2:B:294:VAL:CB	2.43	1.01
2:B:513:TRP:CG	2:B:551:LEU:HD21	1.96	1.01
2:B:559:ASP:HB3	2:B:563:PHE:CD1	1.93	1.01
3:M:8:THR:C	3:M:75:TRP:HB2	1.86	1.01
3:M:257:ALA:O	3:M:452:ILE:HG23	1.58	1.01
3:M:378:ILE:O	3:M:413:GLY:CA	2.07	1.01
1:A:105:VAL:HG23	4:S:167:ILE:CG1	1.90	1.01
1:A:136:GLY:O	1:A:139:ASP:CB	2.09	1.01
1:A:516:ILE:HD13	1:A:551:LEU:HA	1.42	1.01
2:B:178:ILE:CD1	2:B:215:TYR:HA	1.89	1.01
3:M:16:PHE:CZ	3:M:18:TYR:HB2	1.96	1.01
3:M:339:GLU:CG	3:M:412:ARG:HG2	1.90	1.01
3:M:379:LEU:CD2	3:M:386:PHE:HB2	1.90	1.01
4:S:48:SER:CA	4:S:77:TYR:HB2	1.91	1.01
2:B:77:ILE:CG2	2:B:82:TYR:HE1	1.73	1.00
2:B:127:LEU:HB3	2:B:157:THR:HG23	1.04	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:178:ILE:HD11	2:B:215:TYR:CA	1.91	1.00
2:B:230:PHE:O	2:B:231:ARG:O	1.79	1.00
2:B:303:LEU:HD11	2:B:333:GLN:CG	1.91	1.00
2:B:393:ILE:CG2	2:B:431:MET:CB	2.38	1.00
2:B:497:LEU:CD2	2:B:533:LEU:CD2	2.38	1.00
2:B:508:ARG:HB2	2:B:544:THR:CG2	1.91	1.00
2:B:508:ARG:HB2	2:B:544:THR:HG23	1.37	1.00
4:S:53:THR:HG22	4:S:57:LEU:HB2	1.39	1.00
1:A:288:THR:CG2	1:A:322:PHE:HZ	1.71	1.00
1:A:429:VAL:CG1	1:A:469:LEU:HD11	1.90	1.00
2:B:77:ILE:CG2	2:B:82:TYR:CE1	2.44	1.00
2:B:127:LEU:HB3	2:B:161:LEU:HD11	1.39	1.00
2:B:223:LEU:HD23	2:B:255:TYR:CE1	1.93	1.00
2:B:226:LEU:HB3	2:B:255:TYR:CZ	1.85	1.00
2:B:366:LEU:O	2:B:367:SER:C	1.85	1.00
3:M:344:ILE:CG2	3:M:347:PHE:HB3	1.90	1.00
4:S:73:ILE:HG22	4:S:88:ILE:HG23	1.41	1.00
1:A:178:ARG:CD	1:A:209:ASP:OD2	2.08	1.00
1:A:254:ILE:CG1	1:A:290:VAL:HG22	1.91	1.00
2:B:108:PHE:CE2	2:B:115:LEU:CG	2.43	1.00
2:B:185:LYS:HG3	2:B:222:HIS:CE1	1.96	1.00
2:B:189:HIS:NE2	2:B:193:LEU:HD11	1.75	1.00
2:B:393:ILE:HG23	2:B:431:MET:HB3	1.42	1.00
2:B:447:GLU:OE1	2:B:485:LYS:HG3	1.61	1.00
3:M:327:PHE:CE1	3:M:336:ASP:HB2	1.97	1.00
3:M:339:GLU:CG	3:M:412:ARG:NE	2.23	1.00
1:A:104:ARG:HG3	1:A:145:ILE:HG13	1.41	1.00
1:A:104:ARG:CG	1:A:145:ILE:HG13	1.91	1.00
1:A:141:VAL:HG21	4:S:158:LYS:N	1.77	1.00
1:A:244:LEU:CD2	1:A:277:LYS:O	2.10	1.00
2:B:546:CYS:SG	2:B:607:ILE:CG1	2.40	1.00
3:M:101:LEU:HD11	3:M:106:LYS:C	1.85	1.00
3:M:290:PHE:CZ	3:M:297:PHE:CD1	2.49	1.00
1:A:217:ALA:HB2	4:S:142:ILE:HG13	1.43	1.00
1:A:408:ILE:HG23	4:S:64:ASN:HB3	1.01	1.00
2:B:158:VAL:HG12	2:B:195:ILE:HG21	1.40	1.00
3:M:217:ASP:OD1	3:M:471:LYS:HA	1.58	1.00
3:M:353:VAL:HG23	3:M:438:SER:O	1.61	1.00
1:A:166:LEU:HD12	1:A:185:LEU:HD23	1.41	1.00
1:A:220:SER:CB	4:S:142:ILE:CG2	2.32	1.00
1:A:633:PHE:HE1	2:B:513:TRP:CE3	1.33	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:380:LYS:NZ	3:M:236:LEU:HG	1.76	1.00
2:B:487:LEU:HD21	2:B:522:GLU:HB3	1.43	1.00
3:M:101:LEU:CD1	3:M:106:LYS:C	2.34	1.00
3:M:244:VAL:HA	3:M:472:TYR:HD2	1.26	1.00
3:M:379:LEU:HD23	3:M:386:PHE:HB2	1.41	1.00
2:B:182:ARG:HD2	2:B:217:GLU:HB3	1.41	1.00
3:M:65:TYR:CZ	3:M:86:PRO:CB	2.44	1.00
3:M:69:ILE:HG13	3:M:90:PHE:CE1	1.97	1.00
1:A:429:VAL:HB	1:A:469:LEU:HD11	1.03	0.99
1:A:629:LEU:CG	2:B:610:ARG:HH11	1.74	0.99
2:B:120:ILE:HG23	2:B:154:ILE:HG13	1.43	0.99
3:M:326:HIS:O	3:M:338:PHE:HA	1.61	0.99
4:S:131:VAL:HG22	4:S:153:VAL:HG22	1.40	0.99
2:B:80:GLN:HG2	2:B:115:LEU:CD1	1.91	0.99
2:B:303:LEU:HD13	2:B:333:GLN:HB3	1.05	0.99
2:B:307:ASN:OD1	2:B:339:PHE:CE2	2.15	0.99
2:B:513:TRP:HA	2:B:551:LEU:CD1	1.83	0.99
1:A:388:VAL:HG13	1:A:432:ILE:HD12	1.03	0.99
2:B:106:LEU:HD11	2:B:144:ASP:HB3	1.02	0.99
3:M:101:LEU:HD21	3:M:106:LYS:O	1.62	0.99
2:B:63:MET:HG3	2:B:100:LEU:HB3	1.44	0.99
2:B:219:TYR:OH	2:B:226:LEU:CA	2.05	0.99
3:M:339:GLU:CG	3:M:412:ARG:HE	1.75	0.99
1:A:101:GLN:NE2	4:S:167:ILE:CG2	2.25	0.99
2:B:37:TYR:CE2	2:B:38:TYR:CE1	2.50	0.99
2:B:162:VAL:CG2	2:B:199:LEU:CD1	2.40	0.99
2:B:523:PHE:CD1	2:B:559:ASP:OD1	2.16	0.99
2:B:549:LEU:CD2	2:B:607:ILE:O	2.10	0.99
3:M:245:ASP:CA	3:M:472:TYR:CD1	2.45	0.99
3:M:290:PHE:CE1	3:M:297:PHE:CE1	2.50	0.99
4:S:34:GLN:OE1	4:S:58:LEU:CG	2.09	0.99
1:A:102:GLN:CD	4:S:166:LYS:H	1.70	0.99
1:A:128:LEU:CD1	1:A:150:LEU:HD23	1.87	0.99
1:A:638:LEU:HD12	2:B:518:ILE:HG23	1.42	0.99
2:B:121:ASN:OD1	2:B:153:ILE:HD11	1.59	0.99
2:B:159:LYS:HA	2:B:195:ILE:HD11	1.00	0.99
2:B:490:ILE:CG2	2:B:515:PHE:CE2	2.44	0.99
2:B:519:ALA:O	2:B:523:PHE:CG	2.15	0.99
4:S:6:LEU:HD22	4:S:32:LEU:HD22	1.42	0.99
1:A:189:PHE:CD2	1:A:225:LEU:HD21	1.96	0.99
2:B:225:LEU:CD1	2:B:283:TYR:CZ	2.45	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:277:CYS:SG	2:B:292:GLU:CG	2.50	0.99
2:B:592:TYR:OH	2:B:619:ASP:OD2	1.81	0.99
1:A:264:SER:HB2	1:A:271:ARG:CD	1.93	0.99
1:A:275:LEU:CD1	1:A:308:ASP:OD1	2.11	0.99
1:A:287:ALA:HB3	1:A:289:SER:N	1.76	0.99
1:A:563:CYS:HB3	1:A:621:LEU:HD12	1.41	0.99
2:B:279:LEU:HG	2:B:288:TYR:CD1	1.96	0.99
1:A:384:LEU:HD22	1:A:441:TYR:HE2	1.27	0.99
2:B:62:ALA:C	2:B:66:ILE:CD1	2.35	0.99
2:B:83:PHE:HZ	2:B:119:SER:CB	1.51	0.99
2:B:86:VAL:HG12	2:B:101:ILE:HG23	1.01	0.99
2:B:243:TRP:HZ3	3:M:91:THR:HA	1.24	0.99
2:B:530:LEU:HD11	2:B:595:VAL:CG2	1.92	0.99
3:M:69:ILE:HD11	3:M:90:PHE:CZ	1.66	0.99
1:A:179:LYS:CE	4:S:143:GLU:CB	2.36	0.99
1:A:217:ALA:CB	4:S:142:ILE:HG13	1.90	0.99
2:B:303:LEU:HD11	2:B:333:GLN:NE2	1.77	0.99
2:B:309:LEU:HB3	2:B:317:VAL:HG11	1.41	0.99
3:M:224:VAL:HG23	3:M:479:PHE:CD1	1.98	0.99
4:S:8:PHE:HB3	4:S:36:TYR:CZ	1.98	0.99
4:S:54:PRO:CG	4:S:57:LEU:HD11	1.89	0.99
1:A:128:LEU:HD13	1:A:150:LEU:HG	1.39	0.98
2:B:60:ARG:HD2	2:B:96:LYS:HG2	1.41	0.98
2:B:162:VAL:HG21	2:B:195:ILE:C	1.88	0.98
2:B:303:LEU:HD11	2:B:333:GLN:CD	1.88	0.98
2:B:459:GLU:HA	2:B:496:LEU:HD22	1.44	0.98
3:M:66:PHE:HB3	3:M:77:LEU:CD1	1.90	0.98
1:A:183:THR:OG1	4:S:142:ILE:CD1	2.11	0.98
2:B:50:LEU:HB3	2:B:62:ALA:HB2	1.43	0.98
2:B:178:ILE:HG22	2:B:179:LYS:N	1.76	0.98
2:B:350:THR:HB	2:B:352:ASN:ND2	1.78	0.98
3:M:293:PRO:HD2	3:M:293:PRO:O	1.61	0.98
1:A:388:VAL:CG1	1:A:432:ILE:HD12	1.92	0.98
2:B:127:LEU:CA	2:B:161:LEU:HD11	1.93	0.98
2:B:307:ASN:OD1	2:B:339:PHE:CD2	2.15	0.98
2:B:490:ILE:HG22	2:B:515:PHE:CE2	1.97	0.98
2:B:78:ASP:OD2	2:B:81:LEU:HG	1.62	0.98
2:B:86:VAL:HG13	2:B:101:ILE:HG12	1.45	0.98
2:B:230:PHE:CZ	2:B:252:LEU:HD23	1.80	0.98
2:B:261:PRO:HA	2:B:290:SER:CB	1.93	0.98
2:B:530:LEU:HD11	2:B:595:VAL:HG21	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:549:LEU:HD11	2:B:611:ALA:HA	0.99	0.98
3:M:67:SER:OG	3:M:90:PHE:CG	2.16	0.98
1:A:132:LEU:CD2	1:A:169:MET:HG3	1.93	0.98
1:A:215:VAL:CG2	1:A:243:ILE:CD1	2.36	0.98
2:B:105:LEU:HG	2:B:119:SER:HB2	1.44	0.98
2:B:296:ASP:OD1	2:B:297:PRO:HD2	1.63	0.98
2:B:352:ASN:CB	3:M:49:ASP:CG	2.35	0.98
2:B:353:GLN:CD	3:M:47:SER:HB3	1.83	0.98
1:A:88:ASN:HB3	1:A:120:ILE:HD12	0.99	0.98
1:A:589:SER:O	1:A:597:GLN:HG3	1.61	0.98
2:B:268:LYS:O	2:B:273:SER:CB	2.12	0.98
2:B:517:GLU:OE2	2:B:554:LYS:NZ	1.96	0.98
2:B:527:PRO:HB2	2:B:587:ARG:CG	1.93	0.98
3:M:443:SER:HG	3:M:447:ILE:C	1.67	0.98
4:S:130:SER:OG	4:S:156:LEU:HD12	1.59	0.98
1:A:320:HIS:HB2	1:A:352:PHE:CE2	1.99	0.98
1:A:332:TYR:HD1	1:A:366:SER:OG	1.21	0.98
1:A:408:ILE:HG23	4:S:64:ASN:HB2	0.99	0.98
2:B:2:VAL:HG13	2:B:6:HIS:NE2	1.79	0.98
2:B:243:TRP:CZ3	3:M:91:THR:O	2.16	0.98
2:B:275:ARG:CG	2:B:291:TYR:CD2	2.47	0.98
2:B:508:ARG:CB	2:B:544:THR:CG2	2.42	0.98
2:B:549:LEU:CG	2:B:611:ALA:HB2	1.93	0.98
3:M:66:PHE:HA	3:M:77:LEU:CD1	1.94	0.98
4:S:53:THR:OG1	4:S:68:VAL:C	2.06	0.98
1:A:182:ILE:C	1:A:221:VAL:HG21	1.89	0.98
1:A:282:MET:O	1:A:283:GLU:C	2.01	0.98
1:A:516:ILE:CG2	1:A:554:ALA:CB	2.34	0.98
2:B:25:VAL:HG11	2:B:36:THR:HG1	1.26	0.98
2:B:140:SER:CA	2:B:172:GLU:OE1	2.11	0.98
2:B:275:ARG:HG3	2:B:294:VAL:HG11	1.02	0.98
2:B:353:GLN:CG	3:M:49:ASP:N	2.19	0.98
3:M:219:LEU:HB3	3:M:472:TYR:C	1.87	0.98
3:M:443:SER:OG	3:M:447:ILE:O	1.77	0.98
1:A:142:LYS:HA	4:S:159:ALA:HB1	1.42	0.98
1:A:288:THR:CG2	1:A:322:PHE:CE2	2.39	0.98
2:B:223:LEU:CD1	2:B:259:TYR:CB	2.31	0.98
1:A:211:ASP:OD1	4:S:148:ARG:NE	1.96	0.98
1:A:537:THR:HB	1:A:584:PHE:CE1	1.99	0.98
2:B:37:TYR:CZ	2:B:46:GLN:NE2	1.78	0.98
2:B:212:VAL:CG2	2:B:248:LEU:CD2	2.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:275:ARG:CB	2:B:291:TYR:HD2	1.76	0.98
2:B:582:ASP:O	2:B:584:SER:N	1.96	0.98
3:M:317:MET:HB3	3:M:320:ILE:C	1.87	0.98
1:A:105:VAL:CG2	4:S:167:ILE:HD13	1.75	0.97
3:M:281:GLY:O	3:M:282:VAL:HG23	0.80	0.97
4:S:109:LEU:HD11	4:S:113:PHE:CE1	1.92	0.97
1:A:96:SER:N	4:S:166:LYS:NZ	2.10	0.97
1:A:96:SER:HA	1:A:127:LEU:CD1	1.94	0.97
1:A:217:ALA:CA	4:S:142:ILE:CB	1.92	0.97
2:B:86:VAL:HG12	2:B:101:ILE:CG2	1.93	0.97
2:B:90:ILE:HD13	2:B:123:LEU:HD23	1.46	0.97
2:B:279:LEU:CG	2:B:288:TYR:HD1	1.76	0.97
2:B:377:TYR:O	2:B:380:LYS:HB2	1.62	0.97
2:B:553:ALA:CB	2:B:614:ILE:HG12	1.93	0.97
3:M:241:HIS:HB2	3:M:476:THR:CG2	1.93	0.97
1:A:107:TYR:CE2	1:A:128:LEU:HD23	1.96	0.97
3:M:217:ASP:HB3	3:M:471:LYS:N	1.78	0.97
2:B:37:TYR:CD2	2:B:38:TYR:CE1	2.52	0.97
2:B:191:GLU:O	2:B:193:LEU:N	1.97	0.97
2:B:196:LEU:O	2:B:215:TYR:OH	1.82	0.97
2:B:212:VAL:HG21	2:B:248:LEU:HD21	1.46	0.97
2:B:559:ASP:O	2:B:562:ASN:C	2.08	0.97
3:M:65:TYR:CD1	3:M:86:PRO:HG3	2.00	0.97
4:S:5:VAL:HG11	4:S:132:LEU:CD2	1.94	0.97
4:S:8:PHE:HE1	4:S:84:TYR:CB	1.70	0.97
1:A:323:CYS:SG	1:A:338:PHE:HE1	1.86	0.97
1:A:627:GLU:CB	2:B:617:LEU:HB3	1.91	0.97
1:A:633:PHE:CD1	2:B:550:VAL:HG11	1.94	0.97
2:B:208:ILE:CG1	2:B:236:ILE:HG21	1.92	0.97
2:B:223:LEU:HD13	2:B:259:TYR:N	1.68	0.97
2:B:267:ASP:C	2:B:276:SER:CB	2.36	0.97
3:M:347:PHE:HE1	3:M:439:TYR:CD2	1.83	0.97
2:B:102:HIS:HD1	2:B:137:PHE:HB3	1.26	0.97
2:B:219:TYR:CB	2:B:255:TYR:CD1	2.46	0.97
2:B:343:LEU:CD1	2:B:359:LEU:CD1	2.38	0.97
2:B:346:THR:CG2	2:B:350:THR:HG23	1.94	0.97
3:M:273:HIS:HB2	3:M:298:ARG:O	1.62	0.97
3:M:360:LEU:CD2	3:M:362:PHE:CE2	2.47	0.97
1:A:92:LEU:CD2	1:A:120:ILE:O	2.12	0.97
1:A:212:ILE:HB	1:A:247:ILE:CD1	1.95	0.97
1:A:319:LEU:O	1:A:320:HIS:C	1.98	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:116:THR:HG22	2:B:150:LEU:CD1	1.94	0.97
2:B:127:LEU:CB	2:B:161:LEU:HD11	1.94	0.97
2:B:181:TYR:CE2	2:B:222:HIS:N	2.32	0.97
2:B:344:VAL:HG22	2:B:363:ILE:HD11	1.46	0.97
2:B:566:ALA:C	2:B:574:ASN:HB2	1.78	0.97
3:M:52:ASP:HA	3:M:67:SER:C	1.90	0.97
3:M:319:SER:CB	3:M:346:ASN:N	2.25	0.97
1:A:630:PRO:O	2:B:554:LYS:HA	1.62	0.97
2:B:38:TYR:CD2	2:B:65:ARG:HD3	1.96	0.97
2:B:478:LEU:O	2:B:479:VAL:C	2.00	0.97
3:M:95:THR:O	3:M:99:ILE:CD1	2.13	0.97
3:M:246:VAL:HA	3:M:470:ALA:CB	1.93	0.97
2:B:87:VAL:HG12	2:B:122:SER:HB3	0.97	0.97
2:B:219:TYR:O	2:B:223:LEU:HG	1.65	0.97
3:M:8:THR:N	3:M:75:TRP:O	1.96	0.97
1:A:88:ASN:HB3	1:A:120:ILE:CD1	1.94	0.97
1:A:557:LYS:NZ	2:B:604:GLU:HG3	1.78	0.97
1:A:584:PHE:O	1:A:587:ASN:N	1.97	0.97
1:A:636:TYR:HB2	2:B:554:LYS:NZ	1.78	0.97
3:M:261:ASN:N	3:M:448:TYR:O	1.97	0.97
1:A:166:LEU:HD13	1:A:185:LEU:HD23	1.45	0.96
1:A:185:LEU:HD13	1:A:203:PHE:HE1	0.82	0.96
1:A:255:ARG:HH22	4:S:135:ILE:HG22	1.29	0.96
2:B:20:ARG:CD	2:B:21:GLU:CB	2.42	0.96
2:B:79:VAL:CB	2:B:108:PHE:HE1	1.74	0.96
2:B:219:TYR:HD1	2:B:226:LEU:HD22	1.21	0.96
2:B:437:SER:HA	2:B:478:LEU:CD2	1.94	0.96
2:B:549:LEU:CD2	2:B:611:ALA:H	1.51	0.96
3:M:281:GLY:C	3:M:282:VAL:HG23	1.90	0.96
1:A:77:LEU:O	1:A:80:TYR:O	1.81	0.96
2:B:38:TYR:HA	2:B:42:ILE:N	1.81	0.96
2:B:102:HIS:O	2:B:103:LEU:C	1.98	0.96
2:B:291:TYR:HD2	2:B:294:VAL:HG11	0.82	0.96
2:B:340:ILE:HG13	2:B:373:LEU:HD23	1.45	0.96
2:B:394:TRP:HZ3	2:B:397:GLN:OE1	1.47	0.96
3:M:224:VAL:N	3:M:479:PHE:HA	1.80	0.96
3:M:302:TYR:CE2	3:M:445:SER:HB3	2.00	0.96
1:A:151:SER:HB2	1:A:187:LYS:CB	1.94	0.96
1:A:260:PHE:CZ	1:A:274:LEU:HD11	2.00	0.96
1:A:630:PRO:CG	2:B:614:ILE:CB	2.43	0.96
2:B:274:PRO:HG2	2:B:295:ASN:ND2	1.80	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:343:LEU:HD11	2:B:359:LEU:CA	1.94	0.96
2:B:559:ASP:HB2	2:B:563:PHE:HD1	1.20	0.96
3:M:244:VAL:CG1	3:M:472:TYR:CE2	2.47	0.96
4:S:83:LEU:HD11	4:S:116:VAL:HG21	1.44	0.96
1:A:176:TYR:HB3	4:S:155:GLU:CG	1.95	0.96
2:B:158:VAL:C	2:B:195:ILE:HD13	1.90	0.96
2:B:278:PRO:CD	2:B:289:PRO:O	2.13	0.96
3:M:4:SER:O	3:M:78:ALA:CB	1.90	0.96
1:A:65:ASN:C	4:S:165:SER:CB	2.34	0.96
1:A:244:LEU:HD11	1:A:281:LEU:CD1	1.94	0.96
1:A:637:GLU:HB3	2:B:516:GLY:CA	1.95	0.96
2:B:44:PRO:O	2:B:47:LEU:HB2	1.65	0.96
2:B:193:LEU:C	2:B:195:ILE:N	2.20	0.96
3:M:101:LEU:HA	3:M:109:LEU:HD13	1.46	0.96
3:M:319:SER:CB	3:M:346:ASN:CA	2.42	0.96
1:A:103:LYS:HG3	4:S:163:THR:HG22	1.44	0.96
1:A:540:ILE:HG13	1:A:551:LEU:HD23	1.46	0.96
2:B:197:LYS:HB2	2:B:229:HIS:NE2	1.80	0.96
2:B:216:LYS:HA	2:B:251:LEU:HD11	0.97	0.96
1:A:93:GLU:O	4:S:166:LYS:NZ	1.89	0.96
2:B:139:LEU:HD22	2:B:173:VAL:HA	1.48	0.96
2:B:159:LYS:HE3	2:B:191:GLU:OE1	1.64	0.96
3:M:222:PHE:O	3:M:479:PHE:HE2	1.23	0.96
3:M:226:PHE:CZ	3:M:321:GLY:O	2.18	0.96
4:S:54:PRO:C	4:S:57:LEU:HD13	1.90	0.96
2:B:212:VAL:HG22	2:B:248:LEU:CD2	1.95	0.96
2:B:343:LEU:CD2	2:B:362:ALA:CB	2.38	0.96
2:B:343:LEU:CD1	2:B:359:LEU:HA	1.94	0.96
1:A:67:LYS:C	4:S:166:LYS:HA	1.91	0.96
1:A:103:LYS:HD3	1:A:131:ASP:CG	1.91	0.96
1:A:506:LYS:HE2	3:M:58:ARG:HA	1.46	0.96
2:B:151:ALA:CA	2:B:180:LEU:HD11	1.70	0.96
2:B:286:ILE:HG23	2:B:288:TYR:CE2	2.00	0.96
2:B:389:ILE:CG2	2:B:427:ASN:HB2	1.96	0.96
3:M:101:LEU:HG	3:M:106:LYS:C	1.89	0.96
3:M:283:PHE:CE2	3:M:289:THR:HB	1.98	0.96
3:M:362:PHE:O	3:M:363:ASN:C	2.07	0.95
4:S:109:LEU:CD1	4:S:113:PHE:HE1	1.78	0.95
1:A:251:TRP:CG	4:S:104:THR:HG1	1.83	0.95
2:B:48:VAL:HG23	2:B:82:TYR:HE2	1.30	0.95
2:B:117:LEU:HD21	2:B:149:SER:HG	1.18	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:GLN:HG3	4:S:160:ALA:HB3	1.46	0.95
1:A:316:LEU:HD13	1:A:348:PHE:CG	2.01	0.95
2:B:80:GLN:CG	2:B:115:LEU:HD11	1.94	0.95
2:B:363:ILE:HG21	2:B:398:ILE:CD1	1.96	0.95
3:M:6:TYR:CD2	3:M:17:GLN:HA	2.00	0.95
3:M:245:ASP:C	3:M:472:TYR:CE1	2.44	0.95
3:M:339:GLU:CG	3:M:412:ARG:CD	2.44	0.95
3:M:433:VAL:HG12	3:M:481:VAL:HB	1.47	0.95
4:S:135:ILE:O	4:S:141:VAL:CA	2.13	0.95
1:A:186:PHE:CE1	1:A:224:GLU:CG	2.50	0.95
2:B:230:PHE:HE1	2:B:252:LEU:HD23	1.15	0.95
3:M:243:ILE:O	3:M:472:TYR:CB	2.14	0.95
1:A:64:LEU:CG	1:A:102:GLN:HE22	1.79	0.95
1:A:65:ASN:C	4:S:165:SER:HB2	1.91	0.95
1:A:253:ILE:HG12	1:A:281:LEU:HD13	0.96	0.95
2:B:79:VAL:HB	2:B:108:PHE:HE1	1.17	0.95
2:B:559:ASP:CB	2:B:563:PHE:CE1	2.45	0.95
4:S:25:LEU:HB2	4:S:26:PRO:HD3	1.49	0.95
2:B:37:TYR:CE2	2:B:38:TYR:HE1	1.84	0.95
2:B:211:ALA:O	2:B:214:ALA:HB3	1.65	0.95
3:M:71:LYS:O	3:M:72:LEU:HB2	1.65	0.95
3:M:244:VAL:HA	3:M:472:TYR:CG	2.02	0.95
4:S:89:VAL:HG11	4:S:98:ILE:HG21	1.45	0.95
1:A:64:LEU:CB	1:A:102:GLN:HE22	1.78	0.95
1:A:140:VAL:CA	1:A:177:ILE:HG13	1.86	0.95
1:A:258:LYS:NZ	4:S:97:ALA:HB2	1.80	0.95
2:B:127:LEU:HD13	2:B:157:THR:CB	1.97	0.95
2:B:185:LYS:HG3	2:B:222:HIS:NE2	1.82	0.95
3:M:243:ILE:O	3:M:472:TYR:HD2	1.49	0.95
1:A:186:PHE:CE1	1:A:224:GLU:HB2	2.02	0.95
1:A:403:LEU:CD2	1:A:422:GLU:HG3	1.97	0.95
2:B:196:LEU:HB3	2:B:215:TYR:CE2	2.01	0.95
2:B:268:LYS:O	2:B:273:SER:HB3	1.65	0.95
3:M:51:LEU:HD13	3:M:75:TRP:CZ3	2.01	0.95
4:S:89:VAL:HG11	4:S:98:ILE:CG2	1.95	0.95
1:A:88:ASN:O	1:A:89:PHE:C	1.91	0.95
1:A:163:ALA:HB2	1:A:195:ALA:HB1	0.96	0.95
1:A:251:TRP:HZ2	4:S:103:GLN:HB3	1.26	0.95
1:A:403:LEU:CD2	1:A:422:GLU:CD	2.38	0.95
2:B:42:ILE:CD1	2:B:65:ARG:HD3	1.95	0.95
2:B:174:ALA:CB	2:B:211:ALA:CA	2.44	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:174:ALA:CB	2:B:211:ALA:CB	2.44	0.95
2:B:178:ILE:HG13	2:B:214:ALA:CA	1.97	0.95
2:B:437:SER:O	2:B:478:LEU:CD2	2.14	0.95
3:M:18:TYR:CD1	3:M:122:SER:OG	2.20	0.95
3:M:218:LEU:O	3:M:441:GLY:N	2.00	0.95
3:M:222:PHE:CB	3:M:479:PHE:CZ	2.49	0.95
1:A:145:ILE:CD1	4:S:156:LEU:HD22	1.97	0.95
1:A:186:PHE:CE1	1:A:224:GLU:HG2	2.02	0.95
1:A:610:SER:OG	1:A:625:LEU:HD13	1.67	0.95
1:A:147:LEU:HD13	1:A:166:LEU:HD22	1.47	0.94
1:A:217:ALA:HA	4:S:142:ILE:CG1	1.95	0.94
2:B:117:LEU:CD2	2:B:149:SER:OG	2.14	0.94
2:B:158:VAL:HG11	2:B:177:ILE:HG12	0.96	0.94
2:B:178:ILE:CG1	2:B:214:ALA:HB1	1.97	0.94
3:M:7:ILE:HG12	3:M:76:CYS:SG	2.07	0.94
3:M:347:PHE:CE1	3:M:439:TYR:HD2	1.84	0.94
1:A:64:LEU:CB	1:A:102:GLN:NE2	2.30	0.94
1:A:101:GLN:HG3	4:S:160:ALA:HB1	0.95	0.94
1:A:581:LEU:HD23	1:A:607:LEU:CD2	1.96	0.94
2:B:12:LEU:O	2:B:16:LYS:CB	2.13	0.94
2:B:135:ARG:HH22	2:B:164:ASP:CG	1.73	0.94
2:B:175:LEU:CD2	2:B:210:CYS:O	2.14	0.94
2:B:267:ASP:H	2:B:289:PRO:HB2	1.32	0.94
2:B:525:ILE:C	2:B:527:PRO:HD2	1.92	0.94
3:M:67:SER:CB	3:M:90:PHE:HD1	1.78	0.94
1:A:366:SER:O	1:A:370:LYS:HG2	1.66	0.94
1:A:520:GLY:CA	1:A:558:VAL:CG2	2.42	0.94
2:B:123:LEU:CD1	2:B:142:LEU:CD2	2.39	0.94
2:B:394:TRP:CZ3	2:B:397:GLN:OE1	2.20	0.94
3:M:219:LEU:CB	3:M:472:TYR:C	2.39	0.94
1:A:264:SER:HB2	1:A:271:ARG:HD3	1.49	0.94
1:A:408:ILE:HD12	1:A:410:TYR:CE1	2.03	0.94
2:B:143:SER:O	2:B:145:MET:N	1.99	0.94
2:B:226:LEU:CB	2:B:255:TYR:OH	2.13	0.94
2:B:566:ALA:HA	2:B:574:ASN:HB3	0.96	0.94
3:M:60:LEU:HD22	3:M:62:VAL:HG23	0.95	0.94
3:M:222:PHE:HB2	3:M:479:PHE:HZ	1.28	0.94
3:M:343:ASN:CA	3:M:408:VAL:HG13	1.97	0.94
4:S:131:VAL:HG21	4:S:153:VAL:HG22	1.48	0.94
1:A:244:LEU:HD13	1:A:256:LEU:HD13	1.45	0.94
1:A:485:PRO:O	1:A:488:ARG:HG3	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:555:LEU:CD1	1:A:581:LEU:HD11	1.98	0.94
2:B:219:TYR:O	2:B:223:LEU:CG	2.15	0.94
4:S:17:VAL:CG2	4:S:19:PHE:CE2	2.51	0.94
4:S:83:LEU:HD11	4:S:116:VAL:HG11	1.47	0.94
1:A:107:TYR:CZ	1:A:128:LEU:HD23	2.02	0.94
2:B:24:ALA:CB	2:B:35:TYR:CE1	2.50	0.94
2:B:171:GLY:HA2	2:B:207:VAL:CG1	1.94	0.94
2:B:451:MET:SD	2:B:489:ILE:HG12	2.08	0.94
2:B:476:ARG:HA	2:B:514:LEU:CD1	1.96	0.94
1:A:399:ASP:O	1:A:420:ILE:CA	2.14	0.94
1:A:531:ASP:C	1:A:534:LYS:O	2.10	0.94
2:B:48:VAL:HG23	2:B:82:TYR:CE2	2.02	0.94
2:B:123:LEU:HD12	2:B:142:LEU:HD21	1.48	0.94
2:B:123:LEU:O	2:B:127:LEU:CG	2.15	0.94
2:B:237:ILE:O	2:B:238:LYS:C	2.04	0.94
2:B:267:ASP:HB3	2:B:289:PRO:CD	1.98	0.94
2:B:523:PHE:CZ	2:B:580:TYR:CE2	2.44	0.94
3:M:101:LEU:CG	3:M:106:LYS:C	2.41	0.94
3:M:215:TYR:CB	3:M:467:TYR:HD2	1.80	0.94
3:M:443:SER:HB3	3:M:447:ILE:HG12	1.47	0.94
1:A:101:GLN:NE2	4:S:167:ILE:HG22	1.83	0.94
1:A:150:LEU:HB3	1:A:162:ILE:CD1	1.97	0.94
1:A:212:ILE:CG1	4:S:145:ASN:ND2	2.31	0.94
1:A:316:LEU:HD13	1:A:348:PHE:CD2	1.99	0.94
1:A:557:LYS:CE	2:B:606:ASP:N	1.85	0.94
2:B:117:LEU:HD23	2:B:150:LEU:HD23	1.45	0.94
2:B:135:ARG:HB3	2:B:161:LEU:HG	1.48	0.94
2:B:239:GLN:OE1	3:M:278:ILE:HG23	1.66	0.94
2:B:374:PHE:HE1	2:B:381:PHE:CE1	1.86	0.94
3:M:218:LEU:CA	3:M:472:TYR:CE2	2.50	0.94
4:S:8:PHE:CE1	4:S:84:TYR:CG	2.56	0.94
1:A:509:PRO:HB3	1:A:547:VAL:HG23	1.50	0.94
2:B:215:TYR:HD2	2:B:219:TYR:HE1	1.04	0.94
2:B:363:ILE:HG22	2:B:398:ILE:HG12	1.48	0.94
3:M:302:TYR:CE2	3:M:445:SER:CB	2.51	0.94
1:A:557:LYS:CE	2:B:606:ASP:CB	2.45	0.94
2:B:103:LEU:HD13	3:M:132:GLY:HA3	1.50	0.94
2:B:556:LEU:HD23	2:B:588:ILE:HG13	1.49	0.94
3:M:272:LEU:HD22	3:M:278:ILE:CB	1.98	0.94
3:M:364:VAL:O	3:M:367:ALA:O	1.85	0.94
1:A:332:TYR:CE1	1:A:366:SER:OG	2.12	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:162:VAL:CG2	2:B:199:LEU:HD11	1.97	0.93
2:B:490:ILE:HG13	2:B:518:ILE:HG21	1.51	0.93
2:B:546:CYS:CA	2:B:607:ILE:CG2	2.39	0.93
2:B:582:ASP:O	2:B:584:SER:CB	2.16	0.93
1:A:244:LEU:HD23	1:A:277:LYS:O	1.66	0.93
2:B:117:LEU:HD21	2:B:149:SER:CB	1.99	0.93
2:B:223:LEU:HD22	2:B:255:TYR:CD1	2.01	0.93
2:B:256:CYS:HA	2:B:293:VAL:HG21	1.47	0.93
2:B:396:ILE:HD11	2:B:418:TYR:CZ	2.04	0.93
2:B:553:ALA:HB1	2:B:614:ILE:HG12	1.48	0.93
2:B:563:PHE:CD2	2:B:584:SER:HB2	1.95	0.93
3:M:100:LEU:HD22	3:M:101:LEU:N	1.81	0.93
1:A:178:ARG:NH1	1:A:209:ASP:HB3	1.83	0.93
1:A:207:LEU:HD23	1:A:239:LEU:CB	1.97	0.93
2:B:29:LYS:HE2	2:B:30:LEU:H	0.87	0.93
2:B:106:LEU:HD13	2:B:144:ASP:HB2	0.95	0.93
2:B:216:LYS:HG3	2:B:251:LEU:CD1	1.99	0.93
2:B:219:TYR:C	2:B:223:LEU:HD21	1.93	0.93
3:M:215:TYR:HB2	3:M:467:TYR:CD2	2.02	0.93
3:M:290:PHE:CZ	3:M:297:PHE:CD2	2.57	0.93
1:A:71:VAL:HG12	1:A:105:VAL:HG12	1.47	0.93
1:A:213:SER:C	4:S:143:GLU:OE1	2.12	0.93
2:B:51:LEU:CD2	2:B:59:VAL:HG13	1.98	0.93
2:B:159:LYS:HD2	2:B:191:GLU:HG3	1.49	0.93
2:B:552:SER:O	2:B:556:LEU:HG	1.68	0.93
3:M:244:VAL:CA	3:M:472:TYR:CE2	2.43	0.93
1:A:180:LYS:HE3	4:S:156:LEU:HD21	1.51	0.93
2:B:158:VAL:HG13	2:B:173:VAL:CG1	1.98	0.93
3:M:2:TYR:O	3:M:81:SER:CB	2.16	0.93
3:M:224:VAL:N	3:M:479:PHE:CA	2.31	0.93
3:M:327:PHE:HE1	3:M:336:ASP:CB	1.81	0.93
4:S:63:ASN:O	4:S:66:ASP:OD1	1.85	0.93
1:A:213:SER:OG	4:S:143:GLU:OE1	1.86	0.93
1:A:381:GLU:O	1:A:382:ASP:C	1.97	0.93
2:B:24:ALA:HB3	2:B:35:TYR:CD2	2.04	0.93
2:B:123:LEU:HD22	2:B:138:ALA:O	1.67	0.93
2:B:311:TYR:HE2	2:B:342:ALA:HB2	0.80	0.93
2:B:549:LEU:CG	2:B:611:ALA:HA	1.98	0.93
3:M:104:PHE:CZ	3:M:113:LYS:NZ	0.73	0.93
1:A:102:GLN:HB3	4:S:166:LYS:HB2	0.96	0.93
1:A:103:LYS:CG	4:S:163:THR:HG21	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:401:VAL:HB	1:A:419:ILE:HD12	1.49	0.93
2:B:24:ALA:HB1	2:B:35:TYR:CE1	2.03	0.93
2:B:275:ARG:HG3	2:B:294:VAL:CG1	1.85	0.93
3:M:69:ILE:HD11	3:M:90:PHE:HZ	0.77	0.93
4:S:4:ALA:HA	4:S:18:LYS:O	1.69	0.93
1:A:606:PHE:HZ	2:B:550:VAL:HG11	1.34	0.93
1:A:629:LEU:HD11	2:B:610:ARG:HH11	1.28	0.93
2:B:98:LYS:HZ2	2:B:134:LEU:HB3	1.25	0.93
2:B:132:SER:CA	2:B:169:VAL:CG2	2.47	0.93
2:B:252:LEU:HD12	2:B:302:PHE:HE1	1.34	0.93
2:B:549:LEU:HG	2:B:614:ILE:HD12	1.50	0.93
1:A:132:LEU:CD1	1:A:165:ASP:HB3	1.99	0.93
1:A:141:VAL:C	4:S:159:ALA:CB	2.41	0.93
1:A:316:LEU:CD1	1:A:348:PHE:CE2	2.52	0.93
1:A:332:TYR:CZ	1:A:336:ILE:HD11	2.03	0.93
1:A:523:SER:CB	1:A:562:TRP:HE1	1.82	0.93
2:B:67:ILE:CD1	2:B:103:LEU:HB2	1.99	0.93
2:B:219:TYR:O	2:B:223:LEU:HD21	1.66	0.93
2:B:553:ALA:HA	2:B:614:ILE:CG2	1.99	0.93
1:A:189:PHE:HD2	1:A:225:LEU:CD2	1.81	0.92
1:A:605:GLU:OE2	1:A:632:PHE:CZ	2.22	0.92
1:A:633:PHE:HD1	2:B:513:TRP:CZ3	1.76	0.92
2:B:106:LEU:HD11	2:B:144:ASP:O	1.56	0.92
2:B:197:LYS:CB	2:B:229:HIS:NE2	2.32	0.92
2:B:592:TYR:OH	2:B:619:ASP:CG	2.11	0.92
4:S:87:PHE:CD1	4:S:102:ILE:HG12	2.04	0.92
1:A:99:LYS:NZ	4:S:164:ASP:CB	2.32	0.92
1:A:563:CYS:HA	1:A:566:PHE:CD2	2.03	0.92
2:B:197:LYS:N	2:B:229:HIS:CE1	2.37	0.92
2:B:277:CYS:CA	2:B:292:GLU:HG3	1.99	0.92
2:B:396:ILE:CD1	2:B:418:TYR:CE2	2.52	0.92
2:B:497:LEU:CD2	2:B:533:LEU:HD21	1.97	0.92
3:M:69:ILE:HG13	3:M:90:PHE:HE1	1.32	0.92
1:A:104:ARG:HA	1:A:145:ILE:CG2	1.97	0.92
1:A:138:ASN:OD1	4:S:158:LYS:CD	2.13	0.92
1:A:141:VAL:CG1	4:S:159:ALA:CB	2.35	0.92
1:A:264:SER:HB3	1:A:271:ARG:CG	1.99	0.92
1:A:557:LYS:CB	2:B:605:PHE:HD2	1.80	0.92
1:A:609:LEU:HD21	1:A:628:VAL:HG21	0.92	0.92
2:B:20:ARG:HG3	2:B:21:GLU:H	1.31	0.92
2:B:182:ARG:CD	2:B:217:GLU:HB3	2.00	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:286:ILE:CG2	2:B:288:TYR:CZ	2.52	0.92
3:M:435:LEU:O	3:M:479:PHE:CG	2.22	0.92
4:S:34:GLN:CD	4:S:58:LEU:HD11	1.95	0.92
2:B:195:ILE:O	2:B:197:LYS:N	2.02	0.92
3:M:81:SER:O	3:M:82:LYS:HB3	1.69	0.92
4:S:15:ARG:HD2	4:S:122:ILE:CG1	2.00	0.92
1:A:216:SER:CB	4:S:143:GLU:HA	1.99	0.92
1:A:609:LEU:HD23	1:A:628:VAL:HG11	1.51	0.92
2:B:176:ALA:O	2:B:178:ILE:N	2.02	0.92
3:M:215:TYR:CE1	3:M:468:LYS:HG2	2.04	0.92
3:M:224:VAL:N	3:M:479:PHE:CB	2.31	0.92
3:M:317:MET:HB2	3:M:321:GLY:C	1.94	0.92
1:A:212:ILE:HD12	4:S:145:ASN:CG	1.95	0.92
1:A:253:ILE:CD1	1:A:281:LEU:HB3	1.99	0.92
1:A:516:ILE:HG21	1:A:554:ALA:HB3	1.51	0.92
2:B:174:ALA:HB1	2:B:211:ALA:CA	2.00	0.92
2:B:278:PRO:C	2:B:288:TYR:CB	2.38	0.92
2:B:351:GLU:N	2:B:351:GLU:OE2	2.01	0.92
2:B:566:ALA:C	2:B:574:ASN:CG	2.38	0.92
3:M:66:PHE:CA	3:M:77:LEU:CD1	2.41	0.92
3:M:245:ASP:O	3:M:472:TYR:HE1	1.39	0.92
4:S:48:SER:CB	4:S:77:TYR:HB3	1.99	0.92
1:A:244:LEU:HD13	1:A:256:LEU:HD12	1.51	0.92
2:B:62:ALA:O	2:B:66:ILE:HD12	1.66	0.92
2:B:132:SER:CA	2:B:169:VAL:HG21	1.99	0.92
4:S:53:THR:HG23	4:S:67:GLU:O	1.67	0.92
2:B:144:ASP:CA	2:B:179:LYS:NZ	2.27	0.92
2:B:219:TYR:CE2	2:B:226:LEU:CB	2.44	0.92
2:B:278:PRO:HA	2:B:288:TYR:O	1.63	0.92
3:M:4:SER:OG	3:M:6:TYR:CE1	2.23	0.92
3:M:256:VAL:CG1	3:M:290:PHE:HB3	1.99	0.92
3:M:347:PHE:CE1	3:M:439:TYR:CD2	2.58	0.92
4:S:5:VAL:O	4:S:17:VAL:HA	1.68	0.92
4:S:7:ILE:HG21	4:S:121:LEU:CD2	2.00	0.92
1:A:103:LYS:HB3	1:A:107:TYR:CE1	2.04	0.92
1:A:105:VAL:CG2	4:S:167:ILE:CG2	2.46	0.92
1:A:170:LEU:HD12	1:A:206:LYS:HG3	1.48	0.92
2:B:292:GLU:HG2	2:B:296:ASP:HB2	1.52	0.92
2:B:578:PRO:CB	2:B:579:PRO:CD	2.48	0.92
3:M:217:ASP:CG	3:M:470:ALA:O	2.13	0.92
3:M:245:ASP:CB	3:M:472:TYR:CD1	2.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:LEU:HG	1:A:102:GLN:HE22	1.35	0.92
1:A:144:GLY:HA2	1:A:180:LYS:CB	2.00	0.92
2:B:483:PRO:HB3	2:B:521:ILE:HG21	0.95	0.92
2:B:578:PRO:HB2	2:B:579:PRO:HD2	1.49	0.92
3:M:254:PRO:HB3	3:M:454:ILE:HD11	1.51	0.92
4:S:8:PHE:HB3	4:S:36:TYR:OH	1.69	0.92
4:S:130:SER:CB	4:S:156:LEU:HD13	1.99	0.92
1:A:189:PHE:HD2	1:A:225:LEU:HD21	1.29	0.91
1:A:573:GLU:O	1:A:574:ILE:C	1.97	0.91
2:B:151:ALA:HA	2:B:180:LEU:CG	2.00	0.91
2:B:181:TYR:HE2	2:B:222:HIS:N	1.64	0.91
2:B:215:TYR:HD2	2:B:219:TYR:CE1	1.87	0.91
2:B:230:PHE:HZ	2:B:252:LEU:HD22	0.87	0.91
3:M:306:LEU:O	3:M:307:SER:C	2.04	0.91
3:M:374:TYR:OH	3:M:394:GLN:C	2.13	0.91
4:S:21:THR:HB	4:S:22:PRO:HD2	1.50	0.91
2:B:106:LEU:CD1	2:B:144:ASP:C	2.43	0.91
2:B:412:PHE:HE2	2:B:446:TRP:HB3	1.32	0.91
3:M:214:LEU:C	3:M:467:TYR:CB	2.43	0.91
3:M:433:VAL:CG1	3:M:481:VAL:HB	2.00	0.91
1:A:186:PHE:CE1	1:A:224:GLU:CB	2.53	0.91
1:A:291:ILE:HG23	1:A:318:ARG:HB3	0.93	0.91
2:B:93:ASN:HA	2:B:134:LEU:HD11	1.51	0.91
2:B:162:VAL:HG23	2:B:195:ILE:HG23	1.09	0.91
2:B:170:ARG:HA	2:B:199:LEU:HD22	0.92	0.91
2:B:340:ILE:CG1	2:B:373:LEU:HD23	2.01	0.91
4:S:109:LEU:HD13	4:S:113:PHE:CE1	2.03	0.91
1:A:147:LEU:CD2	1:A:166:LEU:HD21	1.92	0.91
1:A:633:PHE:CD2	2:B:550:VAL:HG12	2.02	0.91
2:B:116:THR:CG2	2:B:150:LEU:CD1	2.48	0.91
2:B:154:ILE:CD1	2:B:180:LEU:HD13	2.00	0.91
2:B:252:LEU:HB3	2:B:302:PHE:CD2	2.05	0.91
2:B:274:PRO:CG	2:B:295:ASN:ND2	2.33	0.91
2:B:319:LEU:HD11	2:B:358:MET:SD	2.10	0.91
3:M:256:VAL:O	3:M:289:THR:HA	1.69	0.91
3:M:319:SER:HG	3:M:346:ASN:HB2	1.17	0.91
1:A:179:LYS:HE3	4:S:143:GLU:HB2	0.94	0.91
1:A:629:LEU:CD2	2:B:610:ARG:HH11	1.82	0.91
1:A:637:GLU:HG3	2:B:516:GLY:N	1.84	0.91
2:B:286:ILE:HG23	2:B:288:TYR:CZ	2.06	0.91
3:M:19:LEU:HD13	3:M:24:ALA:HB3	1.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:16:LEU:HD23	4:S:128:LEU:HD23	1.50	0.91
2:B:87:VAL:HG11	2:B:122:SER:HB3	1.48	0.91
2:B:237:ILE:HG21	2:B:305:SER:HB3	1.50	0.91
2:B:319:LEU:HD13	2:B:354:GLY:O	1.69	0.91
2:B:518:ILE:O	2:B:518:ILE:HD12	1.70	0.91
3:M:2:TYR:N	3:M:81:SER:OG	2.04	0.91
1:A:99:LYS:HZ3	4:S:164:ASP:HB2	1.28	0.91
1:A:143:VAL:O	1:A:147:LEU:HG	1.71	0.91
1:A:147:LEU:HD13	1:A:181:ALA:HA	1.49	0.91
2:B:307:ASN:HD21	2:B:336:ASN:HD22	1.13	0.91
2:B:549:LEU:CG	2:B:611:ALA:CA	2.49	0.91
1:A:102:GLN:CB	4:S:163:THR:CB	2.27	0.91
2:B:143:SER:CB	2:B:179:LYS:HD2	2.01	0.91
2:B:174:ALA:O	2:B:175:LEU:C	1.99	0.91
2:B:219:TYR:CE2	2:B:226:LEU:N	2.28	0.91
3:M:45:SER:CA	3:M:47:SER:H	1.83	0.91
1:A:220:SER:HB3	4:S:142:ILE:HG23	1.51	0.91
1:A:250:ASN:OD1	1:A:285:THR:HG21	1.69	0.91
1:A:631:SER:CA	2:B:557:SER:HB2	1.98	0.91
2:B:351:GLU:O	3:M:48:ASP:HB2	1.70	0.91
2:B:486:HIS:CD2	2:B:518:ILE:HG12	2.06	0.91
2:B:596:LEU:HD22	2:B:615:SER:CB	2.00	0.91
3:M:262:THR:HG22	3:M:264:GLY:N	1.86	0.91
4:S:53:THR:O	4:S:69:ASN:ND2	2.04	0.91
4:S:53:THR:N	4:S:69:ASN:HB2	1.85	0.91
1:A:95:MET:C	1:A:127:LEU:HD21	1.94	0.91
1:A:100:LEU:O	4:S:160:ALA:HA	1.30	0.91
1:A:101:GLN:CG	4:S:160:ALA:CB	2.17	0.91
1:A:102:GLN:HA	4:S:167:ILE:HG12	0.92	0.91
1:A:148:SER:O	1:A:151:SER:OG	1.87	0.91
3:M:344:ILE:HB	3:M:407:THR:O	1.70	0.91
4:S:16:LEU:HD12	4:S:17:VAL:H	1.35	0.91
1:A:80:TYR:CB	1:A:82:PHE:CE2	2.54	0.90
1:A:536:MET:O	1:A:537:THR:C	1.98	0.90
1:A:623:MET:O	2:B:617:LEU:HD21	1.71	0.90
2:B:588:ILE:HG23	2:B:618:PHE:HZ	1.31	0.90
3:M:45:SER:HA	3:M:47:SER:H	1.36	0.90
3:M:65:TYR:CD1	3:M:86:PRO:HB3	2.05	0.90
1:A:92:LEU:HD13	1:A:123:LEU:HD12	1.50	0.90
1:A:179:LYS:CD	4:S:143:GLU:HB2	1.99	0.90
2:B:223:LEU:CD1	2:B:258:GLN:C	2.38	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:267:ASP:C	2:B:289:PRO:HG3	1.95	0.90
2:B:346:THR:HG22	2:B:350:THR:CG2	2.00	0.90
3:M:92:PHE:HZ	3:M:129:VAL:CG2	1.84	0.90
1:A:105:VAL:HG21	4:S:167:ILE:CA	2.01	0.90
1:A:609:LEU:HG	1:A:628:VAL:HB	0.90	0.90
1:A:638:LEU:CD1	2:B:518:ILE:HG23	2.00	0.90
2:B:20:ARG:NH1	2:B:35:TYR:OH	2.03	0.90
2:B:29:LYS:CD	2:B:30:LEU:H	1.83	0.90
2:B:441:GLN:HG2	2:B:481:LYS:HG3	1.53	0.90
4:S:8:PHE:HE1	4:S:84:TYR:CG	1.89	0.90
1:A:634:ASN:O	2:B:517:GLU:N	2.02	0.90
2:B:353:GLN:HB2	3:M:49:ASP:N	1.84	0.90
3:M:2:TYR:C	3:M:81:SER:HB2	1.95	0.90
3:M:317:MET:HB2	3:M:322:LEU:N	1.84	0.90
1:A:107:TYR:CZ	1:A:128:LEU:CD2	2.54	0.90
1:A:326:GLN:HA	1:A:331:ARG:HH21	1.33	0.90
2:B:123:LEU:HD12	2:B:142:LEU:HD23	1.50	0.90
2:B:354:GLY:O	2:B:358:MET:HG2	1.71	0.90
2:B:513:TRP:N	2:B:551:LEU:HD11	1.85	0.90
2:B:537:PHE:CZ	2:B:545:ARG:CG	2.54	0.90
3:M:375:LYS:N	3:M:416:GLU:O	2.03	0.90
3:M:379:LEU:HD22	3:M:386:PHE:HD1	1.34	0.90
4:S:56:SER:O	4:S:60:SER:OG	1.88	0.90
1:A:102:GLN:HE21	4:S:165:SER:H	1.18	0.90
1:A:224:GLU:OE1	4:S:138:GLY:O	1.90	0.90
2:B:20:ARG:HH12	2:B:21:GLU:HG3	1.34	0.90
2:B:70:MET:CE	2:B:107:ARG:CB	1.93	0.90
2:B:83:PHE:CZ	2:B:119:SER:HB2	2.05	0.90
2:B:108:PHE:CE2	2:B:115:LEU:HG	2.05	0.90
2:B:191:GLU:C	2:B:193:LEU:H	1.78	0.90
2:B:355:ASN:C	2:B:359:LEU:HD23	1.96	0.90
3:M:223:HIS:HB3	3:M:478:ASN:HA	1.54	0.90
4:S:135:ILE:HG22	4:S:141:VAL:HG22	1.51	0.90
1:A:240:LEU:O	1:A:241:TYR:C	2.00	0.90
1:A:403:LEU:HD21	1:A:422:GLU:N	1.86	0.90
1:A:454:ILE:HG23	1:A:473:ILE:HG23	1.51	0.90
1:A:498:LEU:O	1:A:501:ASN:O	1.88	0.90
2:B:63:MET:CE	2:B:104:TYR:HB2	2.02	0.90
2:B:70:MET:SD	2:B:107:ARG:HB2	2.11	0.90
2:B:527:PRO:HB2	2:B:587:ARG:HG3	1.52	0.90
2:B:553:ALA:CB	2:B:614:ILE:CG1	2.48	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:15:ARG:NH1	4:S:122:ILE:CD1	2.35	0.90
4:S:17:VAL:HG21	4:S:19:PHE:HZ	1.22	0.90
1:A:96:SER:HA	1:A:127:LEU:CG	2.00	0.90
2:B:278:PRO:HB3	2:B:288:TYR:O	1.69	0.90
2:B:319:LEU:HD12	2:B:358:MET:HG3	0.91	0.90
2:B:418:TYR:CD1	2:B:424:PHE:CE1	2.59	0.90
1:A:634:ASN:O	2:B:517:GLU:HA	1.71	0.90
2:B:67:ILE:HD11	2:B:103:LEU:HB2	1.51	0.90
2:B:70:MET:HE3	2:B:107:ARG:HB3	1.48	0.90
2:B:219:TYR:CD1	2:B:255:TYR:CE1	2.49	0.90
2:B:360:LEU:HD13	2:B:391:ALA:HA	1.51	0.90
2:B:549:LEU:HD22	2:B:611:ALA:HB2	0.91	0.90
2:B:562:ASN:CG	2:B:580:TYR:CB	2.45	0.90
2:B:602:ASP:O	2:B:608:ARG:NH2	2.04	0.90
3:M:104:PHE:HE1	3:M:113:LYS:CE	1.42	0.90
1:A:186:PHE:CD1	1:A:224:GLU:CB	2.54	0.90
1:A:631:SER:HA	2:B:557:SER:HB2	1.53	0.90
1:A:637:GLU:OE1	2:B:513:TRP:HD1	1.50	0.90
2:B:155:LEU:HB2	2:B:188:TYR:CD2	2.07	0.90
2:B:311:TYR:CE2	2:B:342:ALA:HB1	2.07	0.90
2:B:319:LEU:HD13	2:B:358:MET:CG	1.72	0.90
2:B:519:ALA:C	2:B:523:PHE:HB3	1.96	0.90
3:M:222:PHE:O	3:M:479:PHE:CZ	2.20	0.90
3:M:222:PHE:CD1	3:M:240:ILE:CG2	2.55	0.90
3:M:379:LEU:CD2	3:M:386:PHE:CG	2.51	0.90
4:S:39:ILE:CD1	4:S:77:TYR:CD2	2.54	0.90
1:A:105:VAL:HG21	4:S:167:ILE:CG2	2.01	0.89
2:B:20:ARG:CZ	2:B:21:GLU:CG	2.37	0.89
2:B:563:PHE:CE2	2:B:584:SER:CA	2.55	0.89
3:M:101:LEU:HG	3:M:106:LYS:CB	2.02	0.89
3:M:265:ASN:OD1	3:M:313:SER:CB	2.18	0.89
1:A:95:MET:C	1:A:127:LEU:CD2	2.45	0.89
1:A:102:GLN:CB	4:S:163:THR:CA	2.48	0.89
1:A:464:ILE:O	1:A:465:SER:C	1.96	0.89
1:A:533:ILE:CG1	1:A:562:TRP:CH2	2.56	0.89
2:B:562:ASN:CG	2:B:580:TYR:HB2	1.97	0.89
2:B:286:ILE:HG21	2:B:288:TYR:OH	1.73	0.89
2:B:531:ARG:HG3	2:B:591:MET:HE1	1.53	0.89
3:M:215:TYR:CB	3:M:467:TYR:CD2	2.54	0.89
1:A:219:VAL:CG1	1:A:259:LEU:CD1	2.51	0.89
2:B:346:THR:HG22	2:B:350:THR:HG23	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:219:LEU:HD22	3:M:473:LYS:CA	2.00	0.89
1:A:99:LYS:HD3	4:S:164:ASP:N	1.86	0.89
1:A:557:LYS:CE	2:B:606:ASP:HB2	2.03	0.89
1:A:605:GLU:HG3	1:A:632:PHE:CG	2.07	0.89
2:B:24:ALA:HB1	2:B:35:TYR:CD1	2.07	0.89
2:B:120:ILE:HD13	2:B:142:LEU:HD23	1.54	0.89
2:B:275:ARG:HB2	2:B:294:VAL:HG13	0.90	0.89
2:B:380:LYS:HZ2	3:M:236:LEU:HG	1.35	0.89
2:B:563:PHE:CD2	2:B:584:SER:CA	2.55	0.89
3:M:224:VAL:H	3:M:479:PHE:CA	1.85	0.89
3:M:246:VAL:HA	3:M:470:ALA:HB2	1.52	0.89
1:A:531:ASP:O	1:A:534:LYS:O	1.90	0.89
2:B:378:THR:HG23	2:B:379:LYS:N	1.86	0.89
2:B:562:ASN:HB3	2:B:580:TYR:CB	2.02	0.89
3:M:243:ILE:O	3:M:472:TYR:HB2	1.72	0.89
3:M:338:PHE:CD2	3:M:415:ILE:CG1	2.56	0.89
1:A:214:VAL:CG2	4:S:148:ARG:NH2	2.35	0.89
1:A:225:LEU:CD1	1:A:233:PHE:HZ	1.72	0.89
1:A:372:ILE:HG21	1:A:427:LYS:HE3	1.53	0.89
1:A:586:GLU:HB2	1:A:604:LEU:HD11	1.54	0.89
1:A:631:SER:HB3	2:B:557:SER:CB	1.93	0.89
2:B:140:SER:HB2	2:B:172:GLU:OE2	1.71	0.89
2:B:177:ILE:HD13	2:B:196:LEU:HG	1.54	0.89
2:B:216:LYS:CA	2:B:251:LEU:HD11	1.86	0.89
2:B:243:TRP:CZ2	3:M:95:THR:N	2.40	0.89
2:B:353:GLN:HG3	3:M:47:SER:CA	2.02	0.89
2:B:474:VAL:O	2:B:477:MET:N	2.06	0.89
3:M:436:GLU:HA	3:M:479:PHE:CE2	2.08	0.89
4:S:109:LEU:HD13	4:S:113:PHE:HE1	1.36	0.89
1:A:254:ILE:HG12	1:A:290:VAL:HG22	1.52	0.89
1:A:392:MET:SD	1:A:457:LEU:CD2	2.61	0.89
2:B:20:ARG:CZ	2:B:21:GLU:CB	2.51	0.89
2:B:70:MET:CE	2:B:107:ARG:CG	2.41	0.89
2:B:226:LEU:CB	2:B:255:TYR:CZ	2.42	0.89
2:B:291:TYR:CE2	2:B:294:VAL:CG1	2.55	0.89
2:B:475:ILE:HG22	2:B:514:LEU:HD21	1.54	0.89
3:M:479:PHE:H	3:M:479:PHE:HD2	1.17	0.89
1:A:147:LEU:HB3	1:A:184:ALA:HB2	1.55	0.89
1:A:629:LEU:O	1:A:630:PRO:C	2.00	0.89
2:B:346:THR:CG2	2:B:350:THR:CG2	2.50	0.89
2:B:415:LEU:HD13	2:B:436:LEU:CD2	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:553:ALA:CB	2:B:614:ILE:CD1	2.51	0.89
3:M:212:ASN:CG	3:M:250:LEU:HD23	1.97	0.89
3:M:218:LEU:HG	3:M:244:VAL:HG22	1.54	0.89
3:M:255:LEU:O	3:M:454:ILE:HA	1.71	0.89
4:S:53:THR:HB	4:S:69:ASN:H	1.33	0.89
1:A:128:LEU:HD12	1:A:150:LEU:CD2	1.77	0.89
1:A:147:LEU:HD13	1:A:166:LEU:CD2	2.02	0.89
1:A:150:LEU:HD13	1:A:162:ILE:HG12	1.52	0.89
1:A:605:GLU:CG	1:A:632:PHE:CG	2.55	0.89
2:B:161:LEU:HB3	2:B:173:VAL:HG22	1.55	0.89
2:B:219:TYR:HB2	2:B:255:TYR:CD1	2.07	0.89
4:S:54:PRO:HG2	4:S:57:LEU:HD11	1.55	0.89
1:A:95:MET:SD	1:A:107:TYR:CD2	2.65	0.88
1:A:103:LYS:CD	1:A:131:ASP:CG	2.46	0.88
2:B:278:PRO:CA	2:B:288:TYR:CB	2.50	0.88
3:M:219:LEU:CG	3:M:472:TYR:O	2.21	0.88
1:A:105:VAL:CB	4:S:167:ILE:CD1	2.33	0.88
1:A:516:ILE:HG22	1:A:554:ALA:HB1	1.54	0.88
1:A:630:PRO:CG	2:B:614:ILE:HA	2.02	0.88
2:B:56:SER:HB2	2:B:92:THR:HG21	1.55	0.88
2:B:79:VAL:HG23	2:B:108:PHE:CE1	2.06	0.88
2:B:208:ILE:HD13	2:B:236:ILE:HG22	1.54	0.88
2:B:275:ARG:CG	2:B:291:TYR:HD2	1.83	0.88
2:B:569:THR:C	2:B:571:SER:H	1.76	0.88
3:M:242:GLY:CA	3:M:444:ALA:HB2	2.03	0.88
1:A:67:LYS:HB2	4:S:165:SER:C	1.97	0.88
1:A:101:GLN:O	4:S:167:ILE:HG13	1.73	0.88
1:A:217:ALA:CB	4:S:143:GLU:HG3	2.02	0.88
1:A:316:LEU:HD12	1:A:348:PHE:CE2	2.07	0.88
2:B:98:LYS:HD2	2:B:138:ALA:HB2	1.55	0.88
2:B:105:LEU:O	2:B:106:LEU:C	2.00	0.88
2:B:219:TYR:HB3	2:B:223:LEU:HD21	1.50	0.88
2:B:274:PRO:CD	2:B:295:ASN:ND2	2.36	0.88
2:B:337:THR:HG23	2:B:373:LEU:HD11	1.55	0.88
2:B:550:VAL:HG22	2:B:610:ARG:CD	2.02	0.88
1:A:96:SER:CA	1:A:127:LEU:CD2	2.37	0.88
1:A:102:GLN:CA	4:S:167:ILE:CG1	2.49	0.88
1:A:216:SER:O	1:A:219:VAL:HB	1.71	0.88
1:A:320:HIS:HB2	1:A:352:PHE:HE2	1.33	0.88
1:A:326:GLN:HA	1:A:331:ARG:CZ	2.02	0.88
2:B:20:ARG:CZ	2:B:21:GLU:HB2	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:227:HIS:NE2	2:B:292:GLU:OE2	2.06	0.88
2:B:268:LYS:O	2:B:273:SER:OG	1.91	0.88
2:B:303:LEU:HD13	2:B:333:GLN:CB	1.97	0.88
3:M:283:PHE:HE2	3:M:289:THR:HB	1.37	0.88
1:A:137:ASN:C	1:A:139:ASP:H	1.80	0.88
1:A:211:ASP:CG	4:S:148:ARG:CD	2.31	0.88
1:A:225:LEU:CB	1:A:233:PHE:CE1	2.55	0.88
1:A:320:HIS:O	1:A:321:THR:C	2.14	0.88
2:B:309:LEU:CB	2:B:317:VAL:HG12	1.99	0.88
3:M:10:THR:HA	3:M:75:TRP:NE1	1.88	0.88
3:M:374:TYR:HB3	3:M:417:TYR:HD2	1.38	0.88
1:A:64:LEU:HG	1:A:102:GLN:NE2	1.87	0.88
1:A:103:LYS:N	4:S:163:THR:HG21	1.89	0.88
1:A:513:ARG:HD2	1:A:550:VAL:HG21	0.88	0.88
2:B:82:TYR:O	2:B:83:PHE:C	2.06	0.88
1:A:151:SER:HB2	1:A:187:LYS:HB2	1.55	0.88
2:B:78:ASP:OD1	2:B:80:GLN:HB2	1.73	0.88
2:B:116:THR:HG21	2:B:150:LEU:HD11	1.55	0.88
3:M:220:GLU:HG3	3:M:439:TYR:HD1	1.36	0.88
3:M:272:LEU:HD21	3:M:278:ILE:HB	1.54	0.88
4:S:53:THR:CG2	4:S:57:LEU:HB2	2.04	0.88
1:A:96:SER:CA	1:A:127:LEU:CG	2.52	0.88
1:A:154:ILE:HG22	1:A:191:GLN:HG3	1.54	0.88
1:A:264:SER:CB	1:A:271:ARG:HD3	2.03	0.88
1:A:306:GLU:O	1:A:307:ASP:C	2.12	0.88
1:A:595:GLU:OE2	2:B:472:VAL:HB	1.73	0.88
2:B:120:ILE:HG13	2:B:150:LEU:HB3	1.54	0.88
2:B:158:VAL:CG1	2:B:177:ILE:HG12	1.84	0.88
2:B:260:LEU:HD22	2:B:291:TYR:OH	0.70	0.88
3:M:214:LEU:CD1	3:M:256:VAL:HG21	2.04	0.88
3:M:220:GLU:HG3	3:M:439:TYR:CD1	2.08	0.88
3:M:334:ASP:O	3:M:417:TYR:N	2.06	0.88
1:A:67:LYS:CB	4:S:165:SER:OG	2.22	0.88
1:A:100:LEU:HG	4:S:162:SER:H	1.38	0.88
1:A:537:THR:HB	1:A:584:PHE:CD1	2.08	0.88
2:B:162:VAL:CG2	2:B:199:LEU:HG	2.03	0.88
2:B:353:GLN:CG	3:M:48:ASP:N	2.36	0.88
2:B:513:TRP:H	2:B:551:LEU:CD1	1.83	0.88
1:A:504:ILE:O	1:A:505:ASN:C	2.06	0.88
2:B:178:ILE:HD13	2:B:218:CYS:HB3	1.55	0.88
2:B:527:PRO:HG2	2:B:587:ARG:CG	2.02	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:531:ARG:N	2:B:591:MET:SD	2.46	0.88
3:M:226:PHE:HB2	3:M:481:VAL:CG2	2.04	0.88
4:S:73:ILE:HG23	4:S:88:ILE:HG23	1.37	0.88
2:B:360:LEU:CD1	2:B:391:ALA:CA	2.52	0.87
2:B:577:ASN:O	2:B:578:PRO:O	1.93	0.87
3:M:4:SER:O	3:M:78:ALA:CA	2.21	0.87
4:S:17:VAL:HG21	4:S:19:PHE:CE2	2.09	0.87
1:A:178:ARG:NE	1:A:209:ASP:OD2	2.07	0.87
2:B:215:TYR:HE2	2:B:229:HIS:HD1	1.22	0.87
2:B:317:VAL:O	2:B:321:CYS:SG	2.32	0.87
3:M:243:ILE:CB	3:M:473:LYS:O	2.21	0.87
3:M:245:ASP:HB3	3:M:472:TYR:HD1	1.39	0.87
3:M:336:ASP:OD2	3:M:415:ILE:HB	1.74	0.87
4:S:53:THR:O	4:S:69:ASN:CG	2.17	0.87
4:S:130:SER:OG	4:S:156:LEU:HD13	1.70	0.87
1:A:64:LEU:CA	1:A:102:GLN:HE22	1.88	0.87
1:A:629:LEU:HD21	2:B:610:ARG:HH11	1.38	0.87
2:B:127:LEU:HB3	2:B:157:THR:CG2	1.95	0.87
2:B:154:ILE:HD12	2:B:180:LEU:CG	2.04	0.87
2:B:247:TYR:HE2	3:M:91:THR:HG21	1.09	0.87
2:B:393:ILE:HG23	2:B:431:MET:HG2	1.35	0.87
2:B:451:MET:HG3	2:B:489:ILE:CD1	2.04	0.87
3:M:215:TYR:N	3:M:467:TYR:HB3	1.88	0.87
4:S:54:PRO:O	4:S:57:LEU:HD13	1.72	0.87
1:A:140:VAL:CB	1:A:177:ILE:HG13	2.02	0.87
1:A:408:ILE:CG2	4:S:65:ASN:N	2.14	0.87
2:B:215:TYR:CD2	2:B:219:TYR:HE1	1.92	0.87
2:B:344:VAL:CG1	2:B:381:PHE:CZ	2.58	0.87
2:B:374:PHE:CE1	2:B:381:PHE:CE1	2.63	0.87
3:M:215:TYR:HB3	3:M:467:TYR:HD2	1.39	0.87
3:M:454:ILE:HG21	3:M:464:THR:HG21	0.88	0.87
1:A:557:LYS:HB3	2:B:605:PHE:HD2	1.24	0.87
1:A:621:LEU:O	1:A:622:PRO:C	1.97	0.87
2:B:121:ASN:OD1	2:B:153:ILE:HD13	1.73	0.87
2:B:174:ALA:HB3	2:B:211:ALA:HA	1.56	0.87
2:B:321:CYS:O	2:B:325:LEU:HG	1.73	0.87
2:B:592:TYR:OH	2:B:619:ASP:OD1	1.93	0.87
3:M:340:LEU:HB3	3:M:411:LEU:HG	1.54	0.87
1:A:105:VAL:H	4:S:167:ILE:HD11	0.72	0.87
1:A:461:CYS:SG	1:A:469:LEU:HD23	2.14	0.87
2:B:20:ARG:NH1	2:B:21:GLU:HG2	1.85	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:143:SER:HA	2:B:179:LYS:HB2	1.56	0.87
2:B:178:ILE:HG21	2:B:214:ALA:HA	1.55	0.87
2:B:297:PRO:O	2:B:301:LEU:HG	1.73	0.87
2:B:513:TRP:CB	2:B:551:LEU:HD21	2.02	0.87
3:M:3:LEU:HB2	3:M:20:LEU:HD12	1.55	0.87
3:M:18:TYR:HD1	3:M:122:SER:HA	1.04	0.87
3:M:259:LYS:O	3:M:449:VAL:HA	1.73	0.87
1:A:557:LYS:CB	2:B:605:PHE:CD2	2.55	0.87
2:B:83:PHE:HE2	2:B:119:SER:CB	1.51	0.87
2:B:178:ILE:C	2:B:180:LEU:H	1.82	0.87
2:B:214:ALA:O	2:B:216:LYS:N	2.07	0.87
2:B:418:TYR:C	2:B:418:TYR:HD1	1.77	0.87
1:A:294:SER:O	1:A:298:ILE:HG12	1.75	0.87
2:B:153:ILE:O	2:B:155:LEU:N	2.08	0.87
2:B:223:LEU:CD2	2:B:255:TYR:CD1	2.56	0.87
2:B:236:ILE:HG22	2:B:240:LEU:HD11	1.54	0.87
2:B:408:VAL:CG1	2:B:412:PHE:CE2	2.58	0.87
2:B:559:ASP:HA	2:B:562:ASN:HB2	1.53	0.87
3:M:44:ASP:O	3:M:46:SER:N	2.07	0.87
3:M:212:ASN:HB3	3:M:250:LEU:HD23	1.56	0.87
3:M:219:LEU:O	3:M:474:THR:CG2	2.23	0.87
4:S:105:PHE:CZ	4:S:128:LEU:HD11	2.10	0.87
1:A:213:SER:CB	4:S:143:GLU:OE1	2.23	0.87
1:A:503:ASN:OD1	3:M:59:ASP:OD2	1.93	0.87
2:B:215:TYR:CD2	2:B:226:LEU:CD1	2.58	0.87
2:B:219:TYR:CB	2:B:226:LEU:HD22	2.02	0.87
2:B:452:LYS:NZ	2:B:456:ASP:OD1	2.08	0.87
3:M:219:LEU:CD2	3:M:473:LYS:HA	2.04	0.87
4:S:83:LEU:HD11	4:S:116:VAL:CG2	2.05	0.87
1:A:633:PHE:CE1	2:B:513:TRP:HE3	1.39	0.86
2:B:196:LEU:HB2	2:B:229:HIS:ND1	1.90	0.86
2:B:208:ILE:CD1	2:B:236:ILE:HG23	1.80	0.86
2:B:267:ASP:O	2:B:276:SER:OG	1.93	0.86
2:B:378:THR:HG23	2:B:379:LYS:H	1.38	0.86
2:B:380:LYS:HZ3	3:M:236:LEU:CD1	1.88	0.86
3:M:223:HIS:HD2	3:M:478:ASN:HB2	1.40	0.86
3:M:379:LEU:CD2	3:M:386:PHE:CB	2.53	0.86
4:S:50:PHE:HB2	4:S:76:ILE:HD13	1.56	0.86
1:A:76:TYR:HH	4:S:125:TRP:HZ3	1.20	0.86
1:A:264:SER:CB	1:A:271:ARG:CG	2.54	0.86
1:A:462:GLN:NE2	2:B:1:MET:HE1	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:633:PHE:HD2	2:B:551:LEU:HA	1.09	0.86
2:B:165:PRO:HA	2:B:170:ARG:HH21	1.38	0.86
2:B:245:GLN:OE1	2:B:309:LEU:HD12	1.75	0.86
2:B:252:LEU:HD13	2:B:302:PHE:HD1	1.04	0.86
2:B:267:ASP:H	2:B:289:PRO:CG	1.87	0.86
3:M:432:THR:HG1	3:M:480:GLN:HG3	1.36	0.86
1:A:64:LEU:HA	1:A:102:GLN:NE2	1.90	0.86
2:B:199:LEU:C	2:B:201:ALA:N	2.30	0.86
2:B:232:ARG:O	2:B:236:ILE:HG13	1.74	0.86
4:S:111:ARG:HB2	4:S:150:VAL:HG22	1.58	0.86
1:A:403:LEU:CD2	1:A:421:PRO:C	2.44	0.86
2:B:219:TYR:CD2	2:B:223:LEU:HA	2.11	0.86
2:B:243:TRP:CH2	3:M:91:THR:O	2.27	0.86
2:B:353:GLN:HB2	3:M:50:TYR:N	1.87	0.86
3:M:223:HIS:CG	3:M:478:ASN:HA	2.11	0.86
1:A:129:LYS:HD2	1:A:161:ASP:CG	2.00	0.86
1:A:178:ARG:NH1	1:A:209:ASP:CG	2.33	0.86
1:A:298:ILE:O	1:A:299:VAL:C	2.16	0.86
1:A:426:ILE:HG13	1:A:464:ILE:CD1	2.04	0.86
1:A:463:ASP:C	2:B:1:MET:SD	2.59	0.86
1:A:637:GLU:O	2:B:518:ILE:N	1.86	0.86
2:B:161:LEU:HB3	2:B:173:VAL:CG2	2.05	0.86
2:B:232:ARG:HG3	2:B:236:ILE:CD1	2.06	0.86
2:B:252:LEU:CB	2:B:302:PHE:CZ	2.59	0.86
2:B:275:ARG:HB3	2:B:291:TYR:CB	2.02	0.86
2:B:497:LEU:O	2:B:498:THR:C	2.03	0.86
2:B:143:SER:CA	2:B:179:LYS:HD2	2.05	0.86
3:M:45:SER:HB2	3:M:51:LEU:CD1	2.05	0.86
3:M:242:GLY:HA3	3:M:444:ALA:HB2	1.58	0.86
1:A:76:TYR:OH	4:S:125:TRP:HZ3	1.57	0.86
1:A:316:LEU:HD11	1:A:348:PHE:CD2	2.07	0.86
1:A:421:PRO:HG2	1:A:424:TYR:CD1	2.11	0.86
1:A:630:PRO:O	2:B:554:LYS:N	2.07	0.86
2:B:232:ARG:HG3	2:B:236:ILE:HD11	1.58	0.86
2:B:389:ILE:HG21	2:B:427:ASN:HB2	1.56	0.86
4:S:8:PHE:CZ	4:S:84:TYR:HB2	1.96	0.86
4:S:135:ILE:HG23	4:S:141:VAL:CG1	2.04	0.86
1:A:141:VAL:CB	4:S:159:ALA:N	2.38	0.86
2:B:178:ILE:CD1	2:B:215:TYR:CA	2.51	0.86
2:B:215:TYR:CD2	2:B:226:LEU:HD12	2.10	0.86
2:B:534:ILE:O	2:B:598:LEU:HD11	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:546:CYS:HB2	2:B:607:ILE:HD11	1.55	0.86
2:B:566:ALA:CA	2:B:574:ASN:ND2	2.38	0.86
3:M:6:TYR:CD2	3:M:17:GLN:CA	2.47	0.86
4:S:48:SER:CA	4:S:77:TYR:CB	2.51	0.86
1:A:103:LYS:CE	1:A:131:ASP:CG	2.49	0.86
1:A:163:ALA:O	1:A:164:ASP:C	2.08	0.86
1:A:220:SER:HB2	4:S:141:VAL:O	1.76	0.86
2:B:79:VAL:HG23	2:B:108:PHE:HZ	1.40	0.86
2:B:513:TRP:CD2	2:B:551:LEU:HD21	2.11	0.86
4:S:39:ILE:HD11	4:S:77:TYR:CG	2.09	0.86
4:S:48:SER:C	4:S:77:TYR:HB2	2.00	0.86
1:A:132:LEU:HD13	1:A:165:ASP:CB	2.05	0.86
2:B:109:ALA:O	2:B:110:GLU:C	2.06	0.86
2:B:553:ALA:CB	2:B:614:ILE:HD13	2.02	0.86
2:B:553:ALA:HA	2:B:614:ILE:HG21	1.56	0.86
3:M:258:VAL:HG22	3:M:452:ILE:CG2	2.06	0.86
4:S:54:PRO:CG	4:S:57:LEU:CD1	2.46	0.86
1:A:103:LYS:N	4:S:163:THR:HB	1.91	0.85
1:A:567:GLN:O	1:A:568:GLU:C	2.17	0.85
3:M:18:TYR:CE1	3:M:122:SER:OG	2.29	0.85
3:M:253:ASN:OD1	3:M:292:PRO:HG2	1.75	0.85
3:M:290:PHE:CZ	3:M:297:PHE:CE1	2.64	0.85
3:M:405:THR:HG22	3:M:406:GLY:H	1.40	0.85
4:S:14:PRO:CA	4:S:36:TYR:OH	2.22	0.85
2:B:2:VAL:HG11	2:B:6:HIS:NE2	1.90	0.85
2:B:127:LEU:CG	2:B:157:THR:HG23	2.00	0.85
2:B:151:ALA:O	2:B:188:TYR:CD2	2.29	0.85
2:B:196:LEU:CB	2:B:229:HIS:ND1	2.39	0.85
2:B:280:PRO:O	2:B:283:TYR:HB2	1.77	0.85
3:M:323:MET:SD	3:M:342:LEU:CG	2.64	0.85
4:S:135:ILE:HG23	4:S:141:VAL:HG13	1.56	0.85
2:B:219:TYR:O	2:B:220:ALA:C	2.16	0.85
3:M:2:TYR:N	3:M:81:SER:HB2	1.88	0.85
3:M:222:PHE:CG	3:M:439:TYR:HE1	1.94	0.85
3:M:360:LEU:HD23	3:M:362:PHE:CE2	2.08	0.85
1:A:147:LEU:CB	1:A:184:ALA:CB	2.54	0.85
1:A:332:TYR:CE1	1:A:366:SER:CB	2.58	0.85
2:B:56:SER:CB	2:B:92:THR:CG2	2.52	0.85
2:B:77:ILE:O	2:B:78:ASP:C	2.17	0.85
3:M:215:TYR:HD2	3:M:470:ALA:N	1.74	0.85
1:A:64:LEU:CA	1:A:102:GLN:NE2	2.39	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:252:ILE:CG1	4:S:145:ASN:N	2.36	0.85
1:A:516:ILE:HD13	1:A:551:LEU:CA	2.05	0.85
2:B:196:LEU:CB	2:B:229:HIS:CE1	2.58	0.85
2:B:316:THR:CG2	3:M:90:PHE:CZ	2.59	0.85
2:B:472:VAL:HG11	2:B:510:GLY:C	2.01	0.85
4:S:135:ILE:O	4:S:141:VAL:HG22	1.77	0.85
1:A:217:ALA:CB	4:S:142:ILE:HB	2.05	0.85
2:B:374:PHE:CZ	2:B:381:PHE:CD1	2.65	0.85
2:B:396:ILE:HG12	2:B:418:TYR:HE2	1.37	0.85
2:B:566:ALA:N	2:B:574:ASN:ND2	2.24	0.85
1:A:381:GLU:HA	1:A:384:LEU:HD23	1.59	0.85
1:A:384:LEU:CD2	1:A:441:TYR:HE2	1.81	0.85
2:B:162:VAL:HB	2:B:195:ILE:HG23	1.57	0.85
2:B:177:ILE:HG21	2:B:196:LEU:HG	1.56	0.85
2:B:404:ASN:O	2:B:408:VAL:HG23	1.76	0.85
2:B:613:MET:HE2	2:B:617:LEU:HD11	1.56	0.85
3:M:6:TYR:O	3:M:77:LEU:N	2.10	0.85
3:M:7:ILE:CA	3:M:75:TRP:O	2.24	0.85
4:S:28:GLN:O	4:S:32:LEU:HG	1.75	0.85
1:A:178:ARG:HH11	1:A:209:ASP:HB3	1.40	0.85
1:A:196:LEU:O	1:A:196:LEU:HD22	1.75	0.85
2:B:21:GLU:CA	2:B:24:ALA:HB3	2.07	0.85
2:B:352:ASN:HB2	3:M:49:ASP:CB	2.06	0.85
2:B:396:ILE:CG1	2:B:418:TYR:CE2	2.59	0.85
2:B:592:TYR:CD2	2:B:618:PHE:CE2	2.64	0.85
3:M:258:VAL:HA	3:M:452:ILE:HG13	1.56	0.85
1:A:225:LEU:CB	1:A:233:PHE:CZ	2.60	0.85
1:A:288:THR:CB	1:A:322:PHE:CZ	2.59	0.85
1:A:298:ILE:HD11	1:A:311:THR:CG2	2.07	0.85
1:A:532:LEU:O	1:A:533:ILE:C	2.00	0.85
2:B:20:ARG:NE	2:B:21:GLU:CB	2.39	0.85
2:B:223:LEU:O	2:B:224:GLU:C	2.11	0.85
3:M:121:ILE:HG22	3:M:125:PHE:CE1	2.12	0.85
3:M:215:TYR:CD1	3:M:467:TYR:O	2.27	0.85
3:M:226:PHE:CB	3:M:481:VAL:HG22	2.04	0.85
1:A:608:ARG:NH2	1:A:632:PHE:HZ	1.74	0.85
1:A:633:PHE:HB2	2:B:550:VAL:HG13	1.56	0.85
2:B:143:SER:OG	2:B:175:LEU:HB3	1.75	0.85
2:B:230:PHE:HZ	2:B:252:LEU:CD2	1.58	0.85
3:M:342:LEU:CD1	3:M:411:LEU:HD22	2.05	0.85
4:S:57:LEU:HB3	4:S:67:GLU:O	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:GLN:HG2	4:S:167:ILE:CG1	2.07	0.84
1:A:147:LEU:CD1	1:A:181:ALA:CA	2.53	0.84
1:A:213:SER:C	4:S:143:GLU:HG2	2.01	0.84
1:A:482:ILE:HG12	1:A:517:TRP:CH2	2.12	0.84
1:A:557:LYS:CG	2:B:605:PHE:HD2	1.90	0.84
1:A:563:CYS:HB2	1:A:621:LEU:HD12	1.58	0.84
1:A:606:PHE:HZ	2:B:550:VAL:CG1	1.90	0.84
2:B:98:LYS:HZ1	2:B:134:LEU:HB3	1.35	0.84
2:B:230:PHE:O	2:B:231:ARG:C	1.96	0.84
2:B:268:LYS:HA	2:B:276:SER:HB2	1.58	0.84
2:B:371:GLN:CD	2:B:401:THR:O	2.20	0.84
2:B:525:ILE:C	2:B:527:PRO:CD	2.50	0.84
1:A:251:TRP:CD2	4:S:104:THR:OG1	2.30	0.84
1:A:636:TYR:CB	2:B:554:LYS:NZ	2.39	0.84
2:B:260:LEU:HA	2:B:291:TYR:CE1	2.11	0.84
1:A:88:ASN:CB	1:A:120:ILE:CD1	2.51	0.84
1:A:220:SER:HB2	4:S:141:VAL:C	2.02	0.84
1:A:638:LEU:CB	2:B:516:GLY:O	2.23	0.84
3:M:6:TYR:HA	3:M:16:PHE:O	1.77	0.84
1:A:260:PHE:CZ	1:A:274:LEU:CD1	2.59	0.84
1:A:266:VAL:O	1:A:267:GLU:CB	2.25	0.84
1:A:279:LEU:O	1:A:280:GLU:C	2.11	0.84
1:A:557:LYS:O	2:B:605:PHE:HE2	1.57	0.84
2:B:223:LEU:HD12	2:B:259:TYR:HA	0.87	0.84
2:B:549:LEU:CG	2:B:611:ALA:CB	2.54	0.84
3:M:224:VAL:HG23	3:M:479:PHE:CE1	2.13	0.84
3:M:290:PHE:CE2	3:M:297:PHE:CZ	2.64	0.84
3:M:347:PHE:CD2	3:M:350:VAL:HB	2.13	0.84
4:S:48:SER:CB	4:S:77:TYR:CA	2.56	0.84
1:A:103:LYS:HG3	4:S:163:THR:HG21	1.55	0.84
1:A:401:VAL:HG23	1:A:418:ILE:O	1.76	0.84
1:A:408:ILE:CG2	4:S:64:ASN:HB2	1.82	0.84
2:B:162:VAL:O	2:B:164:ASP:N	2.10	0.84
2:B:245:GLN:OE1	2:B:309:LEU:CD1	2.24	0.84
1:A:96:SER:HB3	1:A:127:LEU:CD2	2.07	0.84
1:A:589:SER:HB2	1:A:601:VAL:CG2	2.08	0.84
2:B:42:ILE:CG1	2:B:65:ARG:HD3	2.06	0.84
2:B:458:MET:O	2:B:459:GLU:C	2.19	0.84
3:M:323:MET:HB3	3:M:340:LEU:CD1	2.06	0.84
4:S:83:LEU:CD1	4:S:116:VAL:HG21	2.07	0.84
1:A:103:LYS:HB2	4:S:163:THR:HG21	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:125:THR:OG1	1:A:158:LEU:CD1	2.23	0.84
1:A:259:LEU:O	1:A:262:ASN:N	2.10	0.84
1:A:523:SER:HG	1:A:562:TRP:HE1	1.25	0.84
1:A:533:ILE:HG12	1:A:562:TRP:HH2	1.41	0.84
1:A:595:GLU:CB	2:B:469:ASP:HB3	2.07	0.84
1:A:605:GLU:OE2	1:A:632:PHE:CE2	2.31	0.84
2:B:136:CYS:C	2:B:172:GLU:CG	2.50	0.84
2:B:418:TYR:O	2:B:419:VAL:O	1.93	0.84
3:M:19:LEU:CD1	3:M:24:ALA:HB3	2.07	0.84
3:M:82:LYS:O	3:M:84:LYS:HG2	1.78	0.84
2:B:139:LEU:CD2	2:B:173:VAL:C	2.50	0.84
2:B:490:ILE:O	2:B:515:PHE:CZ	2.30	0.84
3:M:254:PRO:CB	3:M:454:ILE:HD12	2.06	0.84
4:S:83:LEU:CD1	4:S:116:VAL:HG11	2.07	0.84
1:A:64:LEU:HA	1:A:102:GLN:HE22	1.40	0.84
1:A:170:LEU:C	1:A:206:LYS:HD2	2.02	0.84
1:A:179:LYS:HG3	1:A:217:ALA:HB2	1.58	0.84
1:A:392:MET:HE1	1:A:428:MET:HE1	1.59	0.84
2:B:48:VAL:CG2	2:B:82:TYR:CE2	2.60	0.84
3:M:233:LEU:HD22	3:M:324:SER:HA	1.59	0.84
1:A:225:LEU:HD12	1:A:233:PHE:CZ	2.13	0.84
2:B:182:ARG:CD	2:B:217:GLU:OE1	2.25	0.84
2:B:353:GLN:HE21	3:M:47:SER:HB3	1.04	0.84
2:B:396:ILE:HD13	2:B:432:ALA:CB	2.08	0.84
3:M:293:PRO:O	3:M:293:PRO:CD	2.26	0.84
4:S:15:ARG:HD2	4:S:122:ILE:HG12	1.58	0.84
1:A:101:GLN:HG2	4:S:167:ILE:HG13	1.59	0.83
1:A:253:ILE:HD13	1:A:281:LEU:CB	2.07	0.83
2:B:264:THR:O	2:B:266:VAL:HG23	1.78	0.83
2:B:534:ILE:CD1	2:B:594:ALA:HB3	1.99	0.83
3:M:215:TYR:CG	3:M:469:GLY:N	2.25	0.83
3:M:223:HIS:CD2	3:M:478:ASN:CB	2.61	0.83
4:S:5:VAL:HG21	4:S:132:LEU:CG	2.08	0.83
1:A:66:SER:N	4:S:165:SER:HB2	1.93	0.83
2:B:243:TRP:HZ2	3:M:94:GLU:C	1.82	0.83
2:B:274:PRO:CA	2:B:295:ASN:HD21	1.90	0.83
2:B:316:THR:OG1	3:M:90:PHE:CZ	2.19	0.83
2:B:336:ASN:O	2:B:337:THR:CB	2.20	0.83
2:B:344:VAL:HG22	2:B:363:ILE:CD1	2.06	0.83
3:M:101:LEU:O	3:M:106:LYS:CA	2.26	0.83
3:M:262:THR:C	3:M:264:GLY:H	1.86	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:GLN:HE21	4:S:167:ILE:HG21	1.40	0.83
1:A:103:LYS:N	4:S:163:THR:CG2	2.40	0.83
1:A:581:LEU:HD23	1:A:607:LEU:CD1	2.06	0.83
1:A:586:GLU:HB2	1:A:604:LEU:CD1	2.07	0.83
1:A:630:PRO:HG2	2:B:614:ILE:CB	2.05	0.83
1:A:634:ASN:O	2:B:517:GLU:CA	2.27	0.83
2:B:25:VAL:CG2	2:B:35:TYR:CD2	2.49	0.83
2:B:102:HIS:ND1	2:B:137:PHE:HB3	1.90	0.83
2:B:275:ARG:CB	2:B:291:TYR:CD2	2.61	0.83
2:B:512:VAL:HG21	2:B:548:ILE:HG12	1.58	0.83
2:B:531:ARG:CB	2:B:591:MET:SD	2.66	0.83
2:B:549:LEU:HD13	2:B:611:ALA:HB1	1.56	0.83
3:M:403:THR:CG2	3:M:407:THR:OG1	2.26	0.83
4:S:14:PRO:HA	4:S:36:TYR:HH	1.36	0.83
1:A:253:ILE:O	1:A:257:LEU:HG	1.78	0.83
1:A:384:LEU:HD13	1:A:441:TYR:HE2	1.44	0.83
1:A:585:PHE:CE2	1:A:607:LEU:HD11	2.14	0.83
2:B:177:ILE:HD12	2:B:196:LEU:HD23	1.59	0.83
2:B:232:ARG:HG3	2:B:236:ILE:CG1	2.06	0.83
2:B:513:TRP:CA	2:B:551:LEU:HD11	2.07	0.83
2:B:563:PHE:C	2:B:566:ALA:HB3	2.02	0.83
4:S:61:ASN:OD1	4:S:66:ASP:OD2	1.95	0.83
1:A:255:ARG:HH21	4:S:135:ILE:HG23	1.43	0.83
1:A:331:ARG:NH1	1:A:362:ASP:OD2	2.12	0.83
1:A:346:THR:O	1:A:347:ASP:C	2.10	0.83
2:B:159:LYS:CA	2:B:195:ILE:CD1	2.50	0.83
4:S:53:THR:CA	4:S:69:ASN:CB	2.53	0.83
1:A:140:VAL:HA	1:A:177:ILE:CD1	2.08	0.83
1:A:332:TYR:HE1	1:A:366:SER:CB	1.92	0.83
2:B:173:VAL:HB	2:B:199:LEU:CD1	2.09	0.83
2:B:177:ILE:O	2:B:181:TYR:HB2	1.78	0.83
2:B:292:GLU:HG2	2:B:296:ASP:CB	2.09	0.83
3:M:121:ILE:O	3:M:125:PHE:CD1	2.31	0.83
3:M:261:ASN:O	3:M:446:GLY:O	1.97	0.83
4:S:5:VAL:CG1	4:S:132:LEU:CD2	2.49	0.83
1:A:403:LEU:HD11	1:A:421:PRO:O	1.79	0.83
1:A:429:VAL:HG21	1:A:469:LEU:HD21	1.60	0.83
1:A:461:CYS:O	1:A:462:GLN:C	2.08	0.83
1:A:545:HIS:O	1:A:546:SER:C	2.07	0.83
2:B:178:ILE:CG2	2:B:214:ALA:O	2.26	0.83
3:M:220:GLU:CG	3:M:439:TYR:HB2	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:262:THR:HG22	3:M:264:GLY:CA	2.09	0.83
1:A:95:MET:SD	1:A:107:TYR:HD2	2.00	0.83
3:M:218:LEU:HG	3:M:472:TYR:HE2	1.43	0.83
3:M:224:VAL:O	3:M:479:PHE:HB3	1.79	0.83
2:B:20:ARG:HH11	2:B:21:GLU:CG	1.91	0.83
2:B:155:LEU:CB	2:B:188:TYR:HD2	1.91	0.83
1:A:182:ILE:CD1	1:A:218:ALA:HB2	2.07	0.83
1:A:275:LEU:HD21	1:A:311:THR:HG1	1.44	0.83
3:M:9:ASP:C	3:M:75:TRP:HD1	1.85	0.83
4:S:9:ASN:ND2	4:S:13:GLN:HB2	1.93	0.83
1:A:559:PHE:HE1	1:A:581:LEU:HD22	1.43	0.82
1:A:633:PHE:CD2	2:B:550:VAL:O	2.31	0.82
2:B:50:LEU:HG	2:B:58:GLU:O	1.79	0.82
2:B:231:ARG:HH21	2:B:297:PRO:HD2	1.44	0.82
2:B:281:ASP:OD1	2:B:287:GLU:OE2	1.97	0.82
2:B:566:ALA:C	2:B:574:ASN:HB3	1.86	0.82
1:A:65:ASN:O	4:S:165:SER:HA	1.79	0.82
1:A:140:VAL:N	1:A:177:ILE:CD1	2.41	0.82
1:A:151:SER:HB2	1:A:187:LYS:HB3	1.59	0.82
1:A:348:PHE:O	1:A:352:PHE:CD1	2.32	0.82
1:A:566:PHE:CE1	1:A:618:THR:HB	2.14	0.82
2:B:393:ILE:HG12	2:B:428:VAL:HA	1.62	0.82
1:A:103:LYS:CD	1:A:131:ASP:OD1	2.28	0.82
1:A:163:ALA:HB1	1:A:199:ASN:ND2	1.92	0.82
1:A:634:ASN:O	2:B:516:GLY:O	1.95	0.82
2:B:42:ILE:HG12	2:B:65:ARG:HD3	1.60	0.82
2:B:171:GLY:HA2	2:B:207:VAL:HG12	1.61	0.82
2:B:178:ILE:HG21	2:B:214:ALA:C	2.04	0.82
2:B:505:ASP:HA	2:B:544:THR:OG1	1.79	0.82
2:B:522:GLU:O	2:B:522:GLU:HG2	1.79	0.82
3:M:262:THR:HG22	3:M:264:GLY:H	1.43	0.82
4:S:47:GLN:HE22	4:S:78:LYS:HA	1.45	0.82
1:A:260:PHE:CE2	1:A:274:LEU:HG	2.14	0.82
1:A:564:ASN:OD1	1:A:622:PRO:HG3	1.78	0.82
2:B:127:LEU:HB3	2:B:161:LEU:HD13	1.61	0.82
2:B:158:VAL:CG1	2:B:195:ILE:HG21	2.08	0.82
2:B:197:LYS:HD2	2:B:283:TYR:CE2	2.14	0.82
2:B:310:ILE:HA	2:B:318:ILE:HG12	1.61	0.82
2:B:472:VAL:CG1	2:B:510:GLY:C	2.51	0.82
2:B:527:PRO:HB2	2:B:587:ARG:CD	2.09	0.82
2:B:562:ASN:CB	2:B:580:TYR:HB3	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:83:LEU:HD11	4:S:116:VAL:CG1	2.07	0.82
1:A:114:PHE:CG	1:A:153:ILE:HG23	2.13	0.82
1:A:140:VAL:CG1	1:A:176:TYR:HB2	2.10	0.82
1:A:144:GLY:HA2	1:A:180:LYS:HB2	1.61	0.82
2:B:63:MET:HE2	2:B:104:TYR:HB2	1.58	0.82
2:B:311:TYR:HE2	2:B:342:ALA:HB1	1.40	0.82
2:B:418:TYR:CD1	2:B:419:VAL:N	2.47	0.82
2:B:493:LEU:CG	2:B:511:ILE:HG23	2.09	0.82
2:B:542:PRO:O	2:B:602:ASP:OD2	1.95	0.82
2:B:592:TYR:CD2	2:B:618:PHE:CD2	2.67	0.82
3:M:231:SER:O	3:M:326:HIS:HE1	1.62	0.82
1:A:166:LEU:HD13	1:A:185:LEU:CG	2.09	0.82
1:A:432:ILE:HG21	1:A:457:LEU:HD11	1.59	0.82
1:A:519:LEU:O	1:A:520:GLY:C	2.13	0.82
2:B:42:ILE:O	2:B:46:GLN:OE1	1.96	0.82
2:B:278:PRO:CB	2:B:288:TYR:C	2.44	0.82
2:B:309:LEU:HD12	2:B:317:VAL:HG11	1.62	0.82
2:B:344:VAL:HG13	2:B:381:PHE:HZ	1.42	0.82
2:B:396:ILE:CD1	2:B:418:TYR:CZ	2.62	0.82
2:B:512:VAL:HB	2:B:551:LEU:HD12	1.62	0.82
1:A:139:ASP:C	1:A:177:ILE:HD11	2.04	0.82
1:A:217:ALA:O	4:S:142:ILE:HG22	1.77	0.82
1:A:563:CYS:CB	1:A:621:LEU:CD1	2.55	0.82
1:A:563:CYS:SG	1:A:621:LEU:CD1	2.68	0.82
2:B:182:ARG:CZ	2:B:217:GLU:OE1	2.27	0.82
2:B:431:MET:O	2:B:434:LYS:N	2.12	0.82
3:M:3:LEU:HG	3:M:80:THR:O	1.79	0.82
3:M:101:LEU:CA	3:M:109:LEU:HD13	2.09	0.82
3:M:243:ILE:CG1	3:M:473:LYS:O	2.27	0.82
4:S:53:THR:HG23	4:S:67:GLU:C	1.98	0.82
1:A:140:VAL:CG1	1:A:176:TYR:CB	2.52	0.82
1:A:255:ARG:HD3	4:S:141:VAL:O	1.80	0.82
1:A:258:LYS:HZ1	4:S:97:ALA:CB	1.92	0.82
1:A:258:LYS:NZ	4:S:97:ALA:CB	2.42	0.82
2:B:123:LEU:HD22	2:B:138:ALA:C	2.04	0.82
2:B:230:PHE:HB3	2:B:298:ASP:OD2	1.80	0.82
2:B:177:ILE:HD11	2:B:195:ILE:CG2	2.10	0.82
2:B:197:LYS:HD2	2:B:283:TYR:CD2	2.15	0.82
2:B:252:LEU:HB2	2:B:302:PHE:CE1	2.15	0.82
2:B:568:VAL:O	2:B:571:SER:CB	2.28	0.82
3:M:428:VAL:O	3:M:429:ASP:C	2.19	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:288:THR:CB	1:A:322:PHE:HZ	1.93	0.82
1:A:520:GLY:HA3	1:A:558:VAL:HG22	0.86	0.82
2:B:284:ASN:CG	2:B:285:GLU:HG3	2.03	0.82
2:B:353:GLN:CB	3:M:50:TYR:N	2.39	0.82
2:B:360:LEU:HD12	2:B:391:ALA:HA	1.60	0.82
2:B:437:SER:HB2	2:B:474:VAL:HG13	1.60	0.82
3:M:290:PHE:CE1	3:M:297:PHE:CG	2.66	0.82
3:M:353:VAL:HG22	3:M:354:ASP:O	1.80	0.82
1:A:71:VAL:CG1	1:A:105:VAL:CG1	2.56	0.81
1:A:219:VAL:HG12	1:A:259:LEU:CD1	2.08	0.81
2:B:120:ILE:HG23	2:B:154:ILE:CG1	2.10	0.81
2:B:578:PRO:HB2	2:B:579:PRO:CD	2.07	0.81
3:M:241:HIS:O	3:M:474:THR:OG1	1.97	0.81
4:S:54:PRO:CB	4:S:57:LEU:HD11	2.10	0.81
1:A:163:ALA:HB1	1:A:199:ASN:HD21	1.43	0.81
1:A:189:PHE:CD2	1:A:225:LEU:CD2	2.60	0.81
1:A:219:VAL:CG1	1:A:256:LEU:HD23	2.09	0.81
1:A:263:LEU:O	1:A:266:VAL:N	2.12	0.81
2:B:170:ARG:HG2	2:B:199:LEU:HD23	1.61	0.81
2:B:340:ILE:CD1	2:B:366:LEU:HB3	2.09	0.81
3:M:7:ILE:HA	3:M:75:TRP:O	1.80	0.81
3:M:101:LEU:CD2	3:M:106:LYS:O	2.28	0.81
3:M:344:ILE:HG23	3:M:347:PHE:HB3	0.93	0.81
1:A:147:LEU:CB	1:A:184:ALA:HB2	2.10	0.81
1:A:566:PHE:HE1	1:A:618:THR:HB	1.43	0.81
2:B:90:ILE:CD1	2:B:123:LEU:CD2	2.58	0.81
2:B:105:LEU:C	2:B:145:MET:HE1	2.05	0.81
2:B:116:THR:HG22	2:B:150:LEU:HD21	1.60	0.81
2:B:171:GLY:N	2:B:207:VAL:CG1	2.34	0.81
2:B:239:GLN:OE1	3:M:278:ILE:O	1.98	0.81
2:B:374:PHE:CD2	2:B:402:LEU:HD11	2.15	0.81
2:B:490:ILE:HG23	2:B:515:PHE:CE2	2.16	0.81
2:B:527:PRO:HG2	2:B:587:ARG:HG2	1.61	0.81
2:B:556:LEU:CB	2:B:588:ILE:HD11	2.10	0.81
3:M:245:ASP:CA	3:M:472:TYR:CE1	2.63	0.81
3:M:257:ALA:HB2	3:M:455:VAL:HG21	1.60	0.81
3:M:374:TYR:HA	3:M:417:TYR:HA	1.63	0.81
1:A:298:ILE:CD1	1:A:311:THR:HG21	2.10	0.81
3:M:4:SER:O	3:M:78:ALA:C	2.23	0.81
3:M:339:GLU:OE2	3:M:412:ARG:NE	2.07	0.81
1:A:67:LYS:HG3	4:S:165:SER:HG	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:96:SER:HB3	1:A:127:LEU:HD13	1.60	0.81
1:A:104:ARG:HE	4:S:160:ALA:HB2	1.45	0.81
1:A:408:ILE:HG21	4:S:64:ASN:O	1.79	0.81
2:B:120:ILE:HG23	2:B:142:LEU:HD22	1.63	0.81
2:B:182:ARG:HD2	2:B:217:GLU:CB	2.10	0.81
2:B:182:ARG:CG	2:B:217:GLU:HB3	2.10	0.81
2:B:553:ALA:CA	2:B:614:ILE:HG21	2.11	0.81
3:M:458:LEU:HD22	3:M:462:LYS:HG2	1.62	0.81
1:A:211:ASP:OD1	1:A:213:SER:N	2.14	0.81
1:A:634:ASN:HD22	2:B:554:LYS:HB3	1.46	0.81
2:B:123:LEU:CB	2:B:142:LEU:HD11	2.09	0.81
2:B:158:VAL:HG13	2:B:177:ILE:HD11	1.61	0.81
2:B:197:LYS:C	2:B:199:LEU:N	2.36	0.81
2:B:277:CYS:HA	2:B:292:GLU:HG3	1.61	0.81
2:B:303:LEU:CD1	2:B:333:GLN:CG	2.55	0.81
2:B:549:LEU:HD21	2:B:610:ARG:C	2.01	0.81
2:B:569:THR:C	2:B:571:SER:N	2.28	0.81
3:M:245:ASP:HB3	3:M:472:TYR:CD1	2.16	0.81
1:A:71:VAL:HG11	1:A:105:VAL:CG1	2.11	0.81
1:A:260:PHE:CE1	1:A:274:LEU:HD12	2.15	0.81
1:A:586:GLU:N	1:A:604:LEU:HD12	1.94	0.81
2:B:90:ILE:HD13	2:B:123:LEU:CD2	2.10	0.81
3:M:49:ASP:HA	3:M:75:TRP:HH2	1.40	0.81
3:M:101:LEU:HG	3:M:106:LYS:HA	0.81	0.81
1:A:96:SER:H	1:A:127:LEU:HD21	0.98	0.81
1:A:102:GLN:NE2	4:S:165:SER:H	1.79	0.81
1:A:110:ALA:O	1:A:111:SER:C	2.14	0.81
1:A:225:LEU:HD12	1:A:233:PHE:CE2	2.16	0.81
2:B:151:ALA:CA	2:B:180:LEU:CD1	2.44	0.81
2:B:396:ILE:CD1	2:B:418:TYR:OH	2.29	0.81
4:S:9:ASN:ND2	4:S:13:GLN:CG	2.44	0.81
1:A:99:LYS:CE	4:S:164:ASP:HB2	2.11	0.81
1:A:140:VAL:HA	1:A:177:ILE:HG12	0.81	0.81
1:A:140:VAL:CA	1:A:177:ILE:CD1	2.59	0.81
1:A:140:VAL:C	4:S:155:GLU:HB3	2.05	0.81
1:A:163:ALA:CB	1:A:199:ASN:HD21	1.94	0.81
1:A:237:SER:HB2	1:A:270:LEU:CD1	2.11	0.81
2:B:47:LEU:HD22	2:B:62:ALA:O	1.80	0.81
2:B:214:ALA:O	2:B:217:GLU:N	2.13	0.81
2:B:243:TRP:CZ2	3:M:94:GLU:C	2.55	0.81
2:B:353:GLN:CB	3:M:49:ASP:H	1.78	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:433:VAL:CG1	2:B:474:VAL:CB	2.51	0.81
2:B:477:MET:O	2:B:480:GLN:HB2	1.80	0.81
2:B:527:PRO:CG	2:B:587:ARG:CG	2.51	0.81
3:M:69:ILE:CD1	3:M:90:PHE:CE1	2.64	0.81
3:M:101:LEU:HD23	3:M:106:LYS:HG3	1.62	0.81
3:M:212:ASN:HB3	3:M:250:LEU:HA	1.63	0.81
1:A:103:LYS:HD3	1:A:131:ASP:OD2	1.81	0.81
1:A:140:VAL:CG1	1:A:176:TYR:HB3	2.09	0.81
1:A:202:LYS:O	1:A:205:SER:N	2.13	0.81
1:A:631:SER:HB2	2:B:557:SER:CB	1.92	0.81
2:B:87:VAL:HG12	2:B:122:SER:CB	1.77	0.81
2:B:212:VAL:C	2:B:214:ALA:N	2.35	0.81
2:B:227:HIS:C	2:B:229:HIS:N	2.21	0.81
2:B:343:LEU:HD22	2:B:362:ALA:HB1	1.62	0.81
2:B:545:ARG:HH11	2:B:602:ASP:HA	1.45	0.81
3:M:224:VAL:HG11	3:M:226:PHE:CZ	2.16	0.81
3:M:310:VAL:HG13	3:M:315:VAL:O	1.81	0.81
3:M:342:LEU:CD1	3:M:411:LEU:CD2	2.56	0.81
1:A:68:THR:CA	4:S:167:ILE:N	2.44	0.80
1:A:105:VAL:CA	4:S:167:ILE:CD1	2.59	0.80
1:A:215:VAL:HG22	1:A:243:ILE:CG1	2.10	0.80
1:A:637:GLU:HB3	2:B:516:GLY:N	1.96	0.80
2:B:136:CYS:O	2:B:172:GLU:HB3	1.80	0.80
2:B:260:LEU:CD2	2:B:291:TYR:CZ	2.53	0.80
2:B:560:ILE:HA	2:B:564:LYS:H	1.46	0.80
3:M:7:ILE:CG2	3:M:75:TRP:O	2.29	0.80
1:A:488:ARG:O	1:A:491:THR:OG1	1.99	0.80
2:B:296:ASP:OD1	2:B:297:PRO:CD	2.29	0.80
2:B:337:THR:CA	2:B:373:LEU:CD2	2.40	0.80
2:B:425:PRO:HD2	2:B:428:VAL:HG21	1.61	0.80
2:B:508:ARG:HB3	2:B:544:THR:CG2	2.12	0.80
3:M:101:LEU:C	3:M:106:LYS:HA	2.06	0.80
3:M:223:HIS:HA	3:M:479:PHE:CG	2.13	0.80
3:M:340:LEU:HG	3:M:411:LEU:CB	2.09	0.80
4:S:108:SER:CB	4:S:149:ILE:HG21	2.10	0.80
1:A:244:LEU:CD1	1:A:256:LEU:HD13	2.11	0.80
1:A:264:SER:CB	1:A:271:ARG:CD	2.59	0.80
1:A:408:ILE:HD12	1:A:410:TYR:CD1	2.15	0.80
1:A:609:LEU:CG	1:A:628:VAL:CB	2.48	0.80
1:A:637:GLU:CB	2:B:516:GLY:N	2.44	0.80
2:B:90:ILE:CD1	2:B:123:LEU:HD23	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:135:ARG:NH1	2:B:164:ASP:HB2	1.97	0.80
2:B:177:ILE:HG21	2:B:196:LEU:CG	2.10	0.80
2:B:178:ILE:HG22	2:B:179:LYS:H	1.44	0.80
2:B:252:LEU:CB	2:B:302:PHE:CE2	2.65	0.80
2:B:256:CYS:HA	2:B:293:VAL:CG2	2.05	0.80
2:B:563:PHE:O	2:B:566:ALA:HB3	1.80	0.80
3:M:215:TYR:CD2	3:M:469:GLY:CA	2.65	0.80
4:S:7:ILE:CG2	4:S:121:LEU:HD21	2.09	0.80
2:B:433:VAL:HG11	2:B:471:TYR:HA	1.61	0.80
3:M:224:VAL:C	3:M:479:PHE:HA	2.06	0.80
1:A:96:SER:CB	1:A:127:LEU:CD2	2.60	0.80
1:A:182:ILE:O	1:A:221:VAL:HG21	1.81	0.80
1:A:222:ILE:HG23	1:A:233:PHE:HB3	1.64	0.80
2:B:315:PRO:CG	2:B:352:ASN:OD1	2.28	0.80
2:B:546:CYS:HA	2:B:607:ILE:HG23	0.82	0.80
3:M:71:LYS:O	3:M:74:TYR:CE2	2.34	0.80
1:A:101:GLN:NE2	4:S:167:ILE:HG21	1.93	0.80
1:A:178:ARG:CZ	1:A:209:ASP:CG	2.55	0.80
1:A:207:LEU:HD11	1:A:240:LEU:HD23	1.62	0.80
1:A:253:ILE:HD11	1:A:281:LEU:CD2	2.09	0.80
1:A:465:SER:H	2:B:1:MET:HG2	1.47	0.80
1:A:557:LYS:HB3	2:B:605:PHE:CE2	2.15	0.80
1:A:608:ARG:NH2	1:A:632:PHE:CZ	2.49	0.80
2:B:172:GLU:O	2:B:173:VAL:C	2.15	0.80
2:B:230:PHE:CD2	2:B:298:ASP:CB	2.63	0.80
2:B:486:HIS:NE2	2:B:518:ILE:HB	1.95	0.80
2:B:560:ILE:CG2	2:B:564:LYS:HB2	2.11	0.80
3:M:18:TYR:CD1	3:M:122:SER:CB	2.64	0.80
1:A:170:LEU:O	1:A:206:LYS:CE	2.28	0.80
1:A:384:LEU:CD1	1:A:441:TYR:HE2	1.94	0.80
1:A:399:ASP:HA	1:A:420:ILE:HB	0.87	0.80
1:A:582:ILE:HD11	1:A:608:ARG:HA	1.64	0.80
2:B:266:VAL:HG13	2:B:291:TYR:H	1.46	0.80
2:B:344:VAL:CG2	2:B:363:ILE:HD11	2.12	0.80
4:S:14:PRO:HB3	4:S:36:TYR:HE1	1.47	0.80
4:S:108:SER:HB3	4:S:149:ILE:CG2	2.12	0.80
1:A:117:ASP:CG	1:A:120:ILE:HG12	2.07	0.80
1:A:224:GLU:CG	4:S:138:GLY:O	2.30	0.80
1:A:392:MET:SD	1:A:457:LEU:HD23	2.22	0.80
1:A:537:THR:CB	1:A:584:PHE:CE1	2.64	0.80
3:M:66:PHE:HB3	3:M:77:LEU:CD2	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:87:PHE:CG	4:S:102:ILE:HG12	2.15	0.80
1:A:426:ILE:CG1	1:A:464:ILE:HD13	2.12	0.80
1:A:436:CYS:SG	1:A:450:TYR:CZ	2.75	0.80
2:B:98:LYS:HZ2	2:B:134:LEU:CB	1.95	0.80
2:B:277:CYS:C	2:B:288:TYR:HB3	2.04	0.80
2:B:527:PRO:HB2	2:B:587:ARG:HD2	1.62	0.80
2:B:550:VAL:CG2	2:B:610:ARG:CD	2.60	0.80
3:M:71:LYS:O	3:M:72:LEU:CB	2.30	0.80
3:M:221:THR:HB	3:M:474:THR:C	2.06	0.80
3:M:350:VAL:HG22	3:M:442:GLN:CD	2.06	0.80
1:A:151:SER:CB	1:A:187:LYS:HB2	2.12	0.80
2:B:62:ALA:HB1	2:B:66:ILE:HD11	1.64	0.80
2:B:337:THR:HG23	2:B:373:LEU:CD1	2.12	0.80
3:M:245:ASP:O	3:M:472:TYR:CZ	2.34	0.80
1:A:178:ARG:NH1	1:A:209:ASP:CB	2.44	0.79
1:A:291:ILE:HG21	1:A:322:PHE:HE1	1.44	0.79
2:B:47:LEU:CD2	2:B:62:ALA:O	2.30	0.79
2:B:219:TYR:HE1	2:B:226:LEU:HD12	1.47	0.79
2:B:352:ASN:O	2:B:355:ASN:HB2	1.81	0.79
2:B:519:ALA:O	2:B:523:PHE:HD2	1.65	0.79
2:B:599:ALA:C	2:B:601:TYR:N	2.39	0.79
3:M:223:HIS:CB	3:M:478:ASN:HA	2.12	0.79
1:A:125:THR:CB	1:A:158:LEU:HD13	2.12	0.79
1:A:145:ILE:HG12	4:S:156:LEU:HD22	1.62	0.79
2:B:170:ARG:NH1	2:B:198:GLU:O	2.15	0.79
2:B:189:HIS:CD2	2:B:222:HIS:HB3	2.17	0.79
2:B:341:GLU:HG2	2:B:345:ARG:HE	1.46	0.79
2:B:444:THR:O	2:B:445:SER:C	2.15	0.79
1:A:185:LEU:HD22	1:A:189:PHE:CZ	2.16	0.79
2:B:50:LEU:CB	2:B:62:ALA:HB2	2.13	0.79
2:B:63:MET:CG	2:B:100:LEU:HB3	2.12	0.79
2:B:178:ILE:HG21	2:B:214:ALA:CA	2.12	0.79
2:B:191:GLU:C	2:B:193:LEU:N	2.37	0.79
2:B:217:GLU:O	2:B:219:TYR:N	2.15	0.79
2:B:245:GLN:NE2	2:B:309:LEU:CD1	2.45	0.79
2:B:374:PHE:CE2	2:B:398:ILE:CG2	2.66	0.79
3:M:379:LEU:HD23	3:M:397:TRP:CD1	2.17	0.79
1:A:96:SER:CB	1:A:127:LEU:HD21	2.11	0.79
1:A:137:ASN:C	1:A:139:ASP:N	2.28	0.79
1:A:182:ILE:HD13	1:A:218:ALA:CB	2.12	0.79
1:A:291:ILE:HG21	1:A:322:PHE:CE1	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:63:MET:SD	2:B:101:ILE:HA	2.22	0.79
2:B:162:VAL:HG23	2:B:199:LEU:HD11	1.61	0.79
2:B:174:ALA:HB3	2:B:211:ALA:CA	2.09	0.79
2:B:178:ILE:O	2:B:181:TYR:N	2.16	0.79
3:M:65:TYR:CD1	3:M:86:PRO:CB	2.65	0.79
3:M:69:ILE:CG1	3:M:90:PHE:CE1	2.66	0.79
1:A:102:GLN:N	4:S:167:ILE:HG12	1.97	0.79
2:B:116:THR:HG22	2:B:150:LEU:CD2	2.12	0.79
2:B:278:PRO:N	2:B:292:GLU:CD	2.37	0.79
2:B:353:GLN:HG2	3:M:48:ASP:N	1.97	0.79
2:B:490:ILE:CG2	2:B:515:PHE:CD2	2.66	0.79
3:M:65:TYR:CD1	3:M:86:PRO:CG	2.65	0.79
1:A:217:ALA:CB	4:S:142:ILE:CB	2.52	0.79
1:A:260:PHE:CE1	1:A:274:LEU:CD1	2.65	0.79
1:A:287:ALA:HB3	1:A:288:THR:C	2.06	0.79
1:A:605:GLU:HG2	1:A:632:PHE:CG	2.17	0.79
1:A:636:TYR:H	2:B:554:LYS:HD3	1.47	0.79
2:B:42:ILE:HD13	2:B:65:ARG:HD3	1.61	0.79
1:A:326:GLN:CA	1:A:331:ARG:NH2	2.42	0.79
1:A:393:LYS:NZ	1:A:397:ASP:OD2	2.16	0.79
2:B:42:ILE:O	2:B:43:ASN:HB2	1.83	0.79
2:B:216:LYS:HG3	2:B:251:LEU:HD12	1.63	0.79
2:B:236:ILE:HG22	2:B:240:LEU:CD1	2.12	0.79
2:B:367:SER:OG	2:B:401:THR:CG2	2.30	0.79
2:B:556:LEU:HB3	2:B:618:PHE:CD1	2.18	0.79
1:A:142:LYS:CA	4:S:159:ALA:CB	2.61	0.79
1:A:143:VAL:HG11	1:A:169:MET:HB3	1.65	0.79
1:A:189:PHE:CD2	1:A:225:LEU:HD11	2.17	0.79
1:A:244:LEU:CD1	1:A:256:LEU:CD1	2.59	0.79
1:A:254:ILE:CG2	1:A:293:GLU:HG2	2.10	0.79
2:B:170:ARG:CA	2:B:199:LEU:CD2	2.48	0.79
3:M:374:TYR:CB	3:M:417:TYR:HD2	1.95	0.79
1:A:557:LYS:HD3	2:B:605:PHE:CB	2.10	0.79
1:A:628:VAL:O	1:A:631:SER:OG	2.00	0.79
2:B:137:PHE:N	2:B:172:GLU:HG3	1.98	0.79
2:B:197:LYS:C	2:B:199:LEU:H	1.91	0.79
3:M:214:LEU:C	3:M:214:LEU:HD23	2.08	0.79
4:S:53:THR:HB	4:S:69:ASN:CB	2.13	0.79
1:A:371:ALA:O	1:A:374:LEU:N	2.16	0.79
1:A:461:CYS:SG	1:A:469:LEU:HB3	2.23	0.79
2:B:123:LEU:O	2:B:127:LEU:CD1	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:151:ALA:HB3	2:B:184:GLY:HA3	1.64	0.79
2:B:155:LEU:O	2:B:157:THR:N	2.16	0.79
2:B:309:LEU:CB	2:B:317:VAL:HG11	2.06	0.79
2:B:567:GLN:HG3	2:B:585:GLY:HA3	1.62	0.79
3:M:356:LEU:CD2	3:M:358:ILE:HG13	2.13	0.79
3:M:374:TYR:O	3:M:390:ILE:CD1	2.31	0.79
4:S:3:HIS:O	4:S:19:PHE:HA	1.82	0.79
4:S:6:LEU:HD13	4:S:32:LEU:HD13	1.65	0.79
1:A:132:LEU:O	1:A:169:MET:HE1	1.83	0.78
1:A:145:ILE:CG1	4:S:156:LEU:HD22	2.13	0.78
2:B:25:VAL:CB	2:B:36:THR:OG1	2.31	0.78
2:B:37:TYR:O	2:B:40:GLN:N	2.16	0.78
2:B:165:PRO:HA	2:B:170:ARG:NH2	1.96	0.78
2:B:178:ILE:HB	2:B:214:ALA:HB1	1.65	0.78
3:M:241:HIS:C	3:M:474:THR:HB	2.06	0.78
4:S:9:ASN:HD21	4:S:13:GLN:HG3	1.46	0.78
1:A:74:LEU:CD2	1:A:87:CYS:SG	2.70	0.78
1:A:102:GLN:CG	4:S:166:LYS:N	1.94	0.78
1:A:440:ASN:OD1	1:A:442:SER:HB3	1.83	0.78
2:B:123:LEU:HB2	2:B:142:LEU:HD11	1.66	0.78
2:B:151:ALA:CB	2:B:184:GLY:HA3	2.13	0.78
2:B:219:TYR:CE1	2:B:226:LEU:HA	2.06	0.78
2:B:219:TYR:HB2	2:B:255:TYR:HD1	1.45	0.78
2:B:267:ASP:O	2:B:276:SER:CB	2.31	0.78
2:B:311:TYR:CZ	2:B:342:ALA:HB2	2.19	0.78
2:B:339:PHE:O	2:B:343:LEU:HB2	1.81	0.78
2:B:531:ARG:HB2	2:B:591:MET:SD	2.23	0.78
3:M:16:PHE:HA	3:M:118:TYR:CD1	2.18	0.78
3:M:64:LYS:HG2	3:M:79:SER:C	2.07	0.78
3:M:284:SER:O	3:M:285:PRO:C	2.09	0.78
3:M:320:ILE:HG21	3:M:439:TYR:CE2	2.18	0.78
3:M:342:LEU:HD12	3:M:411:LEU:CB	2.10	0.78
1:A:80:TYR:CB	1:A:82:PHE:CD2	2.65	0.78
1:A:175:PRO:HB3	1:A:211:ASP:CG	2.07	0.78
2:B:120:ILE:CD1	2:B:142:LEU:HD23	2.13	0.78
2:B:139:LEU:HD21	2:B:173:VAL:C	2.08	0.78
2:B:199:LEU:C	2:B:201:ALA:H	1.89	0.78
2:B:267:ASP:CA	2:B:289:PRO:HG3	2.14	0.78
2:B:537:PHE:CE2	2:B:598:LEU:HB3	2.13	0.78
3:M:101:LEU:CB	3:M:106:LYS:HA	2.14	0.78
3:M:104:PHE:HZ	3:M:113:LYS:CE	1.54	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:67:LYS:CB	1:A:94:VAL:HG22	2.12	0.78
1:A:114:PHE:CD1	1:A:153:ILE:HG23	2.18	0.78
2:B:83:PHE:CE2	2:B:119:SER:CA	2.47	0.78
2:B:148:SER:O	2:B:183:ALA:HB3	1.70	0.78
2:B:501:THR:HA	2:B:508:ARG:HH22	1.47	0.78
3:M:95:THR:O	3:M:99:ILE:HD13	1.82	0.78
3:M:233:LEU:HD22	3:M:323:MET:O	1.82	0.78
3:M:338:PHE:HD2	3:M:415:ILE:HG13	1.48	0.78
3:M:362:PHE:O	3:M:363:ASN:O	2.00	0.78
3:M:449:VAL:HG12	3:M:452:ILE:CD1	1.96	0.78
4:S:8:PHE:HZ	4:S:84:TYR:HB3	1.45	0.78
1:A:629:LEU:HD21	2:B:610:ARG:HD3	1.65	0.78
1:A:637:GLU:CG	2:B:515:PHE:N	2.36	0.78
3:M:67:SER:OG	3:M:90:PHE:HB2	1.84	0.78
1:A:147:LEU:HD12	1:A:181:ALA:CA	2.10	0.78
1:A:384:LEU:HD13	1:A:441:TYR:CE2	2.19	0.78
2:B:291:TYR:CD2	2:B:294:VAL:CB	2.66	0.78
2:B:350:THR:HB	2:B:352:ASN:HD21	1.45	0.78
2:B:515:PHE:CE2	2:B:529:VAL:HG11	2.19	0.78
3:M:244:VAL:CB	3:M:472:TYR:CE2	2.66	0.78
3:M:354:ASP:HB2	3:M:440:ILE:HD12	1.63	0.78
1:A:141:VAL:CG1	4:S:159:ALA:N	2.47	0.78
2:B:20:ARG:NH1	2:B:35:TYR:CE1	2.51	0.78
2:B:396:ILE:CD1	2:B:432:ALA:HB2	2.14	0.78
2:B:409:LYS:O	2:B:413:LYS:HG3	1.83	0.78
3:M:9:ASP:O	3:M:75:TRP:CD1	2.37	0.78
3:M:228:LYS:NZ	3:M:326:HIS:HA	1.98	0.78
3:M:403:THR:HG23	3:M:407:THR:OG1	1.82	0.78
1:A:233:PHE:O	1:A:234:ILE:C	2.05	0.78
1:A:429:VAL:HG11	1:A:473:ILE:HD11	1.64	0.78
1:A:634:ASN:OD1	2:B:556:LEU:N	2.10	0.78
2:B:104:TYR:O	2:B:107:ARG:N	2.16	0.78
2:B:144:ASP:HA	2:B:179:LYS:CE	2.13	0.78
2:B:146:LYS:O	2:B:147:MET:SD	2.42	0.78
2:B:174:ALA:O	2:B:214:ALA:CB	2.32	0.78
2:B:219:TYR:CG	2:B:226:LEU:CB	2.48	0.78
2:B:336:ASN:ND2	2:B:338:LYS:HB2	1.98	0.78
2:B:374:PHE:CE2	2:B:398:ILE:HG21	2.18	0.78
2:B:437:SER:O	2:B:478:LEU:HD23	1.83	0.78
2:B:509:ALA:HB1	2:B:547:GLN:HG3	1.47	0.78
3:M:45:SER:CA	3:M:47:SER:N	2.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:360:LEU:CD2	3:M:362:PHE:CZ	2.66	0.78
4:S:8:PHE:CG	4:S:36:TYR:HE2	2.01	0.78
1:A:182:ILE:HG21	1:A:218:ALA:HA	1.66	0.78
1:A:244:LEU:HD21	1:A:277:LYS:O	1.83	0.78
1:A:333:ILE:O	1:A:337:LEU:HG	1.84	0.78
2:B:37:TYR:HE2	2:B:38:TYR:CE1	1.97	0.78
2:B:219:TYR:C	2:B:223:LEU:CD2	2.52	0.78
2:B:275:ARG:HG3	2:B:291:TYR:HD2	1.37	0.78
2:B:567:GLN:C	2:B:569:THR:OG1	2.26	0.78
3:M:379:LEU:HD22	3:M:386:PHE:CB	2.13	0.78
4:S:34:GLN:CB	4:S:58:LEU:HD11	2.14	0.78
1:A:64:LEU:O	1:A:65:ASN:C	2.19	0.78
1:A:90:HIS:O	1:A:94:VAL:HG23	1.83	0.78
1:A:211:ASP:CG	4:S:148:ARG:CZ	2.57	0.78
1:A:408:ILE:HG22	4:S:65:ASN:CA	2.13	0.78
1:A:631:SER:CB	2:B:557:SER:HB2	2.10	0.78
2:B:200:MET:HE3	2:B:232:ARG:H	1.49	0.78
2:B:310:ILE:O	2:B:311:TYR:C	2.13	0.78
2:B:500:GLN:OE1	2:B:503:LEU:HD21	1.83	0.78
3:M:101:LEU:CA	3:M:109:LEU:CD1	2.55	0.78
2:B:178:ILE:CG1	2:B:214:ALA:CB	2.61	0.77
2:B:223:LEU:HD23	2:B:255:TYR:HE1	1.47	0.77
2:B:230:PHE:HD2	2:B:298:ASP:HB3	1.48	0.77
2:B:475:ILE:CG2	2:B:514:LEU:HD21	2.13	0.77
3:M:283:PHE:CZ	3:M:289:THR:CB	2.62	0.77
2:B:20:ARG:HG3	2:B:21:GLU:N	1.99	0.77
2:B:170:ARG:HA	2:B:199:LEU:HD23	1.64	0.77
2:B:252:LEU:HB2	2:B:302:PHE:CE2	2.19	0.77
2:B:331:PRO:HB3	2:B:369:LEU:HD11	1.64	0.77
2:B:513:TRP:O	2:B:551:LEU:HD22	1.83	0.77
3:M:224:VAL:N	3:M:479:PHE:CD1	2.53	0.77
3:M:380:ARG:HH11	3:M:410:VAL:HG11	1.47	0.77
4:S:16:LEU:CD2	4:S:128:LEU:HD23	2.14	0.77
4:S:109:LEU:O	4:S:110:ASP:C	2.13	0.77
1:A:140:VAL:HG22	1:A:177:ILE:CG1	2.14	0.77
1:A:323:CYS:SG	1:A:334:SER:HB2	2.25	0.77
1:A:401:VAL:CG2	1:A:418:ILE:N	2.47	0.77
2:B:271:GLU:O	2:B:272:GLY:C	2.20	0.77
2:B:353:GLN:HE22	3:M:47:SER:HB3	1.42	0.77
2:B:380:LYS:NZ	3:M:236:LEU:CG	2.47	0.77
2:B:537:PHE:HE2	2:B:598:LEU:O	1.68	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:290:PHE:CZ	3:M:297:PHE:CE2	2.71	0.77
4:S:109:LEU:HD12	4:S:113:PHE:HD1	0.92	0.77
1:A:256:LEU:O	1:A:260:PHE:CD1	2.37	0.77
1:A:498:LEU:HB3	1:A:504:ILE:HG13	1.66	0.77
2:B:170:ARG:HH12	2:B:198:GLU:HG2	0.69	0.77
2:B:364:HIS:ND1	2:B:397:GLN:HB3	2.00	0.77
3:M:360:LEU:HD13	3:M:433:VAL:HB	1.66	0.77
4:S:53:THR:CB	4:S:69:ASN:CA	2.54	0.77
4:S:108:SER:OG	4:S:149:ILE:HG21	1.83	0.77
1:A:147:LEU:CD1	1:A:166:LEU:CD2	2.62	0.77
1:A:176:TYR:HB2	4:S:155:GLU:CG	2.09	0.77
1:A:275:LEU:CD2	1:A:311:THR:OG1	2.28	0.77
1:A:304:LEU:HD22	1:A:344:ILE:HG21	1.66	0.77
2:B:219:TYR:HB3	2:B:255:TYR:CD1	2.17	0.77
2:B:340:ILE:HG13	2:B:373:LEU:CD2	2.13	0.77
2:B:479:VAL:HG21	2:B:486:HIS:CD2	2.20	0.77
2:B:530:LEU:CD2	2:B:591:MET:HB3	2.14	0.77
2:B:562:ASN:O	2:B:580:TYR:O	2.03	0.77
3:M:101:LEU:CD1	3:M:106:LYS:HA	2.14	0.77
3:M:304:VAL:HG11	3:M:445:SER:HA	1.65	0.77
4:S:43:ASN:O	4:S:44:SER:C	2.20	0.77
1:A:142:LYS:HA	4:S:159:ALA:CB	2.13	0.77
1:A:401:VAL:CB	1:A:419:ILE:HD12	2.14	0.77
2:B:127:LEU:CD1	2:B:157:THR:CB	2.58	0.77
2:B:437:SER:O	2:B:478:LEU:HD21	1.81	0.77
2:B:545:ARG:HB2	2:B:602:ASP:OD2	1.84	0.77
2:B:562:ASN:CB	2:B:580:TYR:CB	2.62	0.77
3:M:69:ILE:CG1	3:M:90:PHE:CZ	2.67	0.77
3:M:99:ILE:H	3:M:99:ILE:HD12	1.48	0.77
3:M:302:TYR:CE2	3:M:445:SER:HB2	2.19	0.77
1:A:401:VAL:HB	1:A:419:ILE:CD1	2.14	0.77
1:A:460:LEU:O	1:A:463:ASP:N	2.16	0.77
2:B:2:VAL:HG11	2:B:6:HIS:CE1	2.17	0.77
2:B:106:LEU:HD13	2:B:144:ASP:CA	2.14	0.77
2:B:267:ASP:C	2:B:276:SER:OG	2.27	0.77
3:M:243:ILE:N	3:M:474:THR:CG2	2.35	0.77
3:M:256:VAL:HG22	3:M:452:ILE:CG2	2.15	0.77
3:M:257:ALA:HB1	3:M:287:ASN:HD21	1.50	0.77
4:S:75:ILE:HG22	4:S:86:THR:HG23	1.67	0.77
1:A:244:LEU:HG	1:A:277:LYS:HG3	1.65	0.77
1:A:384:LEU:HD13	1:A:435:ILE:HG22	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:139:LEU:HD23	2:B:173:VAL:N	2.00	0.77
2:B:513:TRP:HB2	2:B:551:LEU:HD11	1.65	0.77
2:B:563:PHE:CE1	2:B:588:ILE:HD12	2.19	0.77
3:M:235:LEU:CD1	3:M:306:LEU:HB3	2.14	0.77
3:M:348:LYS:HG3	3:M:405:THR:CG2	2.13	0.77
1:A:178:ARG:HB3	1:A:214:VAL:HG13	1.67	0.77
1:A:353:ASP:OD1	1:A:378:ILE:HD13	1.84	0.77
1:A:636:TYR:H	2:B:554:LYS:CD	1.97	0.77
2:B:70:MET:CE	2:B:104:TYR:O	2.24	0.77
2:B:212:VAL:C	2:B:214:ALA:H	1.93	0.77
2:B:292:GLU:HG3	2:B:296:ASP:HB2	1.46	0.77
3:M:223:HIS:CE1	3:M:476:THR:H	2.03	0.77
3:M:235:LEU:HD11	3:M:306:LEU:CB	2.14	0.77
3:M:340:LEU:HG	3:M:411:LEU:HB3	1.66	0.77
3:M:379:LEU:CD2	3:M:397:TRP:HE1	1.98	0.77
4:S:55:PRO:C	4:S:57:LEU:H	1.91	0.77
2:B:86:VAL:CG1	2:B:101:ILE:CG2	2.57	0.77
2:B:124:GLN:HB2	2:B:153:ILE:HG23	1.67	0.77
2:B:424:PHE:HD2	2:B:428:VAL:HG11	1.48	0.77
4:S:57:LEU:HA	4:S:60:SER:HB2	1.67	0.77
1:A:103:LYS:HE3	1:A:131:ASP:CG	2.05	0.76
2:B:81:LEU:C	2:B:83:PHE:N	2.33	0.76
2:B:120:ILE:CD1	2:B:142:LEU:CD2	2.63	0.76
3:M:3:LEU:HB2	3:M:20:LEU:CD1	2.13	0.76
3:M:246:VAL:O	3:M:297:PHE:CE2	2.37	0.76
4:S:47:GLN:OE1	4:S:79:ASN:N	2.18	0.76
4:S:87:PHE:CE1	4:S:102:ILE:HG23	2.20	0.76
4:S:89:VAL:CG1	4:S:98:ILE:HG21	2.15	0.76
4:S:112:CYS:SG	4:S:153:VAL:HG21	2.25	0.76
1:A:79:MET:HG2	1:A:112:GLN:OE1	1.84	0.76
1:A:125:THR:HG1	1:A:158:LEU:HD13	1.51	0.76
1:A:255:ARG:O	1:A:258:LYS:N	2.18	0.76
1:A:288:THR:OG1	1:A:291:ILE:CB	2.28	0.76
1:A:316:LEU:HD11	1:A:341:ILE:HG21	1.67	0.76
2:B:144:ASP:HA	2:B:179:LYS:CD	2.16	0.76
3:M:215:TYR:CE1	3:M:468:LYS:HA	2.18	0.76
3:M:253:ASN:OD1	3:M:292:PRO:CG	2.33	0.76
1:A:241:TYR:C	1:A:242:GLU:O	2.02	0.76
1:A:252:ILE:HA	4:S:144:THR:HG1	1.49	0.76
2:B:90:ILE:HD11	2:B:102:HIS:CD2	2.21	0.76
2:B:184:GLY:O	2:B:188:TYR:HB2	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:279:LEU:CG	2:B:288:TYR:CD1	2.64	0.76
2:B:526:CYS:N	2:B:527:PRO:CD	2.48	0.76
4:S:75:ILE:HG22	4:S:77:TYR:CE1	2.21	0.76
1:A:95:MET:C	4:S:166:LYS:NZ	2.43	0.76
1:A:102:GLN:HE21	4:S:165:SER:N	1.83	0.76
1:A:594:PHE:CE2	2:B:474:VAL:HG22	2.20	0.76
2:B:29:LYS:HE2	2:B:30:LEU:CA	2.16	0.76
2:B:196:LEU:HB3	2:B:215:TYR:CZ	2.20	0.76
2:B:458:MET:SD	2:B:471:TYR:CB	2.72	0.76
1:A:63:ASP:O	4:S:165:SER:OG	2.01	0.76
1:A:67:LYS:HB3	1:A:94:VAL:CG2	2.14	0.76
1:A:103:LYS:HB3	1:A:107:TYR:HE1	1.46	0.76
1:A:105:VAL:CA	4:S:167:ILE:HD13	2.16	0.76
1:A:183:THR:OG1	4:S:142:ILE:HD11	1.83	0.76
2:B:5:ILE:HA	2:B:8:ILE:HD12	1.66	0.76
2:B:6:HIS:ND1	3:M:25:PRO:HB3	2.00	0.76
2:B:93:ASN:HA	2:B:134:LEU:CD1	2.15	0.76
2:B:136:CYS:HA	2:B:172:GLU:HB2	1.67	0.76
2:B:182:ARG:NH1	2:B:217:GLU:OE1	2.18	0.76
2:B:232:ARG:HG3	2:B:236:ILE:HG13	1.65	0.76
2:B:261:PRO:HG2	2:B:292:GLU:CA	2.15	0.76
2:B:334:MET:HA	2:B:334:MET:CE	2.14	0.76
4:S:17:VAL:HG13	4:S:19:PHE:CE1	2.21	0.76
4:S:53:THR:HG21	4:S:68:VAL:N	2.00	0.76
1:A:516:ILE:CD1	1:A:551:LEU:HD13	2.15	0.76
2:B:215:TYR:CE2	2:B:229:HIS:CB	2.69	0.76
3:M:348:LYS:O	3:M:405:THR:HG23	1.85	0.76
4:S:131:VAL:HG21	4:S:153:VAL:CG2	2.14	0.76
1:A:101:GLN:O	4:S:167:ILE:CG1	2.31	0.76
1:A:370:LYS:O	1:A:374:LEU:HD13	1.86	0.76
1:A:539:ASN:O	1:A:540:ILE:C	2.23	0.76
2:B:47:LEU:HB3	2:B:66:ILE:HG12	1.67	0.76
2:B:260:LEU:HB3	2:B:291:TYR:CZ	2.12	0.76
2:B:479:VAL:CG2	2:B:486:HIS:NE2	2.48	0.76
3:M:65:TYR:CD2	3:M:86:PRO:HA	2.20	0.76
3:M:373:ALA:HB3	3:M:418:GLU:O	1.86	0.76
3:M:443:SER:HB3	3:M:447:ILE:N	2.00	0.76
4:S:53:THR:CB	4:S:69:ASN:HB2	2.16	0.76
4:S:69:ASN:O	4:S:73:ILE:O	2.04	0.76
4:S:75:ILE:CG2	4:S:86:THR:CG2	2.64	0.76
1:A:99:LYS:HZ3	4:S:164:ASP:CB	1.97	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:606:PHE:CG	1:A:629:LEU:HG	2.20	0.76
1:A:626:SER:C	2:B:617:LEU:HG	2.10	0.76
2:B:83:PHE:O	2:B:87:VAL:HG23	1.85	0.76
2:B:178:ILE:HG23	2:B:217:GLU:CB	2.15	0.76
2:B:334:MET:HB2	2:B:369:LEU:HD23	1.67	0.76
3:M:214:LEU:O	3:M:467:TYR:HB3	1.85	0.76
3:M:273:HIS:CB	3:M:298:ARG:O	2.32	0.76
1:A:101:GLN:HG2	4:S:160:ALA:HB1	1.66	0.76
1:A:207:LEU:O	1:A:243:ILE:HD11	1.86	0.76
1:A:215:VAL:O	1:A:216:SER:C	2.18	0.76
2:B:36:THR:HA	2:B:39:SER:OG	1.84	0.76
2:B:396:ILE:CG1	2:B:418:TYR:HE2	1.98	0.76
3:M:223:HIS:CD2	3:M:478:ASN:HB2	2.20	0.76
3:M:224:VAL:O	3:M:479:PHE:CA	2.34	0.76
4:S:85:PHE:CE2	4:S:109:LEU:HD23	2.21	0.76
1:A:207:LEU:CD2	1:A:239:LEU:CB	2.58	0.76
1:A:244:LEU:HD11	1:A:281:LEU:HD11	1.68	0.76
1:A:623:MET:O	2:B:617:LEU:CD2	2.34	0.76
1:A:627:GLU:HG2	2:B:617:LEU:HA	1.67	0.76
2:B:549:LEU:HD21	2:B:611:ALA:H	0.94	0.76
2:B:559:ASP:O	2:B:562:ASN:CA	2.33	0.76
2:B:563:PHE:O	2:B:564:LYS:O	2.03	0.76
3:M:217:ASP:OD1	3:M:440:ILE:HG23	1.85	0.76
3:M:306:LEU:HD22	3:M:317:MET:HE3	1.66	0.76
3:M:342:LEU:HD12	3:M:411:LEU:HB3	1.68	0.76
1:A:74:LEU:HD22	1:A:87:CYS:CB	2.14	0.75
1:A:101:GLN:N	4:S:162:SER:N	2.34	0.75
1:A:179:LYS:NZ	4:S:143:GLU:HB2	2.00	0.75
1:A:254:ILE:HG13	1:A:290:VAL:HG22	1.68	0.75
1:A:264:SER:HB3	1:A:271:ARG:HG3	1.68	0.75
1:A:421:PRO:CG	1:A:424:TYR:CE1	2.66	0.75
1:A:595:GLU:HG3	2:B:469:ASP:HB3	0.75	0.75
2:B:67:ILE:HD13	2:B:103:LEU:CB	2.15	0.75
2:B:178:ILE:HD13	2:B:218:CYS:CB	2.15	0.75
2:B:433:VAL:CB	2:B:474:VAL:HG21	2.15	0.75
2:B:500:GLN:HB3	2:B:503:LEU:HG	1.68	0.75
2:B:589:SER:OG	2:B:618:PHE:CE2	2.39	0.75
3:M:60:LEU:HD22	3:M:62:VAL:HG22	1.67	0.75
3:M:99:ILE:HG12	3:M:128:CYS:SG	2.27	0.75
3:M:222:PHE:CB	3:M:479:PHE:HZ	1.93	0.75
3:M:245:ASP:CB	3:M:472:TYR:HD1	1.95	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:340:LEU:C	3:M:411:LEU:HB3	2.12	0.75
3:M:383:HIS:HB2	3:M:403:THR:OG1	1.85	0.75
1:A:103:LYS:CG	4:S:163:THR:CG2	2.57	0.75
1:A:461:CYS:CB	1:A:469:LEU:HD23	2.17	0.75
2:B:29:LYS:O	2:B:32:GLU:HG3	1.78	0.75
2:B:154:ILE:CD1	2:B:180:LEU:CB	2.64	0.75
2:B:178:ILE:CB	2:B:214:ALA:HB1	2.16	0.75
2:B:231:ARG:HG2	2:B:298:ASP:OD1	1.84	0.75
2:B:537:PHE:CE2	2:B:598:LEU:C	2.63	0.75
2:B:556:LEU:HD23	2:B:588:ILE:CD1	2.17	0.75
2:B:596:LEU:HD22	2:B:615:SER:OG	1.84	0.75
3:M:101:LEU:CG	3:M:106:LYS:O	2.35	0.75
3:M:104:PHE:HZ	3:M:113:LYS:HZ2	0.77	0.75
3:M:320:ILE:HG13	3:M:347:PHE:CD1	2.20	0.75
3:M:379:LEU:HD23	3:M:397:TRP:NE1	2.01	0.75
4:S:54:PRO:CB	4:S:57:LEU:CD1	2.64	0.75
1:A:166:LEU:HD12	1:A:185:LEU:CD2	2.04	0.75
2:B:153:ILE:C	2:B:155:LEU:N	2.44	0.75
2:B:346:THR:O	2:B:350:THR:N	2.18	0.75
2:B:390:VAL:O	2:B:393:ILE:HB	1.86	0.75
2:B:563:PHE:O	2:B:566:ALA:CA	2.35	0.75
2:B:592:TYR:CE2	2:B:618:PHE:CD2	2.74	0.75
3:M:437:TYR:HB2	3:M:439:TYR:CZ	2.21	0.75
4:S:9:ASN:HD21	4:S:13:GLN:HG2	1.51	0.75
4:S:47:GLN:HE22	4:S:79:ASN:N	1.84	0.75
4:S:73:ILE:HG23	4:S:88:ILE:HG22	1.65	0.75
1:A:178:ARG:CZ	1:A:209:ASP:OD2	2.35	0.75
1:A:244:LEU:O	1:A:245:VAL:C	2.28	0.75
1:A:264:SER:CB	1:A:271:ARG:HG3	2.15	0.75
2:B:108:PHE:CD2	2:B:115:LEU:HB2	2.22	0.75
2:B:307:ASN:O	2:B:310:ILE:N	2.19	0.75
2:B:343:LEU:HD21	2:B:359:LEU:O	1.86	0.75
2:B:363:ILE:HG21	2:B:398:ILE:HD13	1.66	0.75
2:B:469:ASP:OD1	2:B:506:ASN:HB3	1.86	0.75
3:M:6:TYR:OH	3:M:17:GLN:NE2	2.18	0.75
3:M:16:PHE:HA	3:M:118:TYR:CE1	2.22	0.75
3:M:18:TYR:HE2	3:M:20:LEU:CD2	1.98	0.75
4:S:131:VAL:CG2	4:S:153:VAL:CG2	2.58	0.75
1:A:260:PHE:CG	1:A:274:LEU:HG	2.22	0.75
1:A:320:HIS:O	1:A:322:PHE:N	2.19	0.75
2:B:106:LEU:HD11	2:B:144:ASP:CB	1.80	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:267:ASP:N	2:B:289:PRO:CG	2.49	0.75
2:B:334:MET:HE2	2:B:339:PHE:CE1	2.22	0.75
3:M:374:TYR:CB	3:M:417:TYR:CD2	2.69	0.75
3:M:443:SER:CB	3:M:447:ILE:C	2.59	0.75
1:A:104:ARG:HG3	1:A:145:ILE:CD1	2.15	0.75
1:A:403:LEU:CD2	1:A:422:GLU:CG	2.52	0.75
1:A:638:LEU:O	2:B:486:HIS:HE1	1.70	0.75
2:B:177:ILE:CG2	2:B:196:LEU:HD11	2.16	0.75
2:B:334:MET:CE	2:B:339:PHE:CE1	2.70	0.75
3:M:290:PHE:CD1	3:M:297:PHE:CE1	2.75	0.75
4:S:8:PHE:CB	4:S:36:TYR:CZ	2.62	0.75
1:A:322:PHE:CG	1:A:330:LEU:HD21	2.22	0.75
1:A:557:LYS:CD	2:B:605:PHE:HB3	2.12	0.75
2:B:118:LEU:O	2:B:121:ASN:N	2.20	0.75
2:B:286:ILE:CG2	2:B:288:TYR:OH	2.34	0.75
2:B:473:ASN:O	2:B:476:ARG:HB3	1.86	0.75
2:B:550:VAL:CG2	2:B:610:ARG:HD3	2.13	0.75
3:M:121:ILE:CG2	3:M:125:PHE:CE1	2.70	0.75
3:M:219:LEU:O	3:M:474:THR:HG23	1.86	0.75
3:M:222:PHE:CD1	3:M:439:TYR:HE1	2.04	0.75
3:M:241:HIS:HB2	3:M:476:THR:HG23	1.67	0.75
3:M:378:ILE:C	3:M:379:LEU:HD12	2.11	0.75
3:M:454:ILE:CG2	3:M:464:THR:CG2	2.53	0.75
4:S:16:LEU:HD23	4:S:128:LEU:CD2	2.16	0.75
1:A:304:LEU:HD12	1:A:312:ALA:HB2	1.68	0.75
1:A:399:ASP:C	1:A:420:ILE:H	1.95	0.75
2:B:602:ASP:OD1	2:B:603:ASP:N	2.19	0.75
3:M:258:VAL:HG13	3:M:452:ILE:CG1	2.16	0.75
3:M:290:PHE:CZ	3:M:297:PHE:CZ	2.74	0.75
3:M:437:TYR:N	3:M:437:TYR:CD1	2.53	0.75
1:A:581:LEU:HD23	1:A:607:LEU:HD21	1.69	0.75
1:A:633:PHE:HD2	2:B:551:LEU:CA	1.71	0.75
1:A:636:TYR:CG	2:B:554:LYS:NZ	2.55	0.75
2:B:60:ARG:HD2	2:B:96:LYS:CG	2.16	0.75
2:B:139:LEU:HD23	2:B:173:VAL:C	2.11	0.75
2:B:171:GLY:HA3	2:B:207:VAL:CA	2.17	0.75
2:B:189:HIS:NE2	2:B:225:LEU:HD23	2.00	0.75
2:B:200:MET:CG	2:B:232:ARG:HB3	2.13	0.75
2:B:215:TYR:CB	2:B:226:LEU:CD1	2.63	0.75
2:B:310:ILE:HG12	2:B:318:ILE:HA	1.69	0.75
2:B:319:LEU:HD12	2:B:358:MET:CG	1.79	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:328:LEU:HB2	2:B:333:GLN:HE22	1.52	0.75
2:B:346:THR:HG23	2:B:350:THR:HG23	1.66	0.75
2:B:597:TYR:O	2:B:601:TYR:CE1	2.39	0.75
3:M:52:ASP:HA	3:M:67:SER:CA	2.17	0.75
1:A:129:LYS:HA	1:A:165:ASP:OD2	1.86	0.74
2:B:217:GLU:O	2:B:218:CYS:C	2.28	0.74
2:B:219:TYR:CE1	2:B:226:LEU:HD12	2.19	0.74
2:B:225:LEU:HD13	2:B:283:TYR:CZ	2.15	0.74
2:B:596:LEU:HD13	2:B:611:ALA:O	1.87	0.74
3:M:67:SER:CB	3:M:90:PHE:CD1	2.61	0.74
3:M:101:LEU:CD1	3:M:109:LEU:CD1	2.65	0.74
3:M:342:LEU:HD11	3:M:411:LEU:HD23	1.65	0.74
1:A:291:ILE:HG21	1:A:318:ARG:HB3	1.63	0.74
1:A:372:ILE:CG2	1:A:427:LYS:HE3	2.17	0.74
1:A:556:VAL:HG11	2:B:610:ARG:NH2	2.02	0.74
2:B:219:TYR:CG	2:B:223:LEU:HD23	2.20	0.74
2:B:299:LEU:O	2:B:302:PHE:HB3	1.87	0.74
2:B:337:THR:HA	2:B:373:LEU:HD22	1.63	0.74
2:B:500:GLN:CB	2:B:503:LEU:HG	2.17	0.74
4:S:54:PRO:HB2	4:S:57:LEU:HD11	1.70	0.74
1:A:99:LYS:CD	4:S:164:ASP:H	1.94	0.74
1:A:186:PHE:CD1	1:A:224:GLU:HB3	2.22	0.74
1:A:609:LEU:CD2	1:A:628:VAL:HG11	2.17	0.74
2:B:37:TYR:CE2	2:B:42:ILE:HA	2.22	0.74
2:B:37:TYR:O	2:B:39:SER:N	2.20	0.74
2:B:546:CYS:CB	2:B:607:ILE:CD1	2.42	0.74
3:M:18:TYR:HD1	3:M:122:SER:CA	1.80	0.74
3:M:449:VAL:HG11	3:M:452:ILE:HD11	0.75	0.74
1:A:163:ALA:CA	1:A:199:ASN:HD21	2.00	0.74
2:B:38:TYR:CD2	2:B:65:ARG:CD	2.33	0.74
2:B:70:MET:HB2	2:B:104:TYR:CE1	2.22	0.74
2:B:143:SER:CA	2:B:179:LYS:HB2	2.16	0.74
2:B:500:GLN:CD	2:B:503:LEU:HD21	2.12	0.74
3:M:443:SER:CA	3:M:447:ILE:HG13	2.18	0.74
1:A:211:ASP:CG	4:S:148:ARG:NE	2.46	0.74
1:A:397:ASP:O	1:A:418:ILE:CG1	2.35	0.74
2:B:70:MET:HE3	2:B:107:ARG:HG3	1.69	0.74
4:S:17:VAL:HG22	4:S:19:PHE:CE2	2.21	0.74
4:S:85:PHE:CD1	4:S:106:VAL:HG22	2.21	0.74
1:A:67:LYS:CB	4:S:165:SER:C	2.59	0.74
1:A:183:THR:OG1	4:S:142:ILE:HD13	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:220:SER:HB3	4:S:142:ILE:HG22	0.75	0.74
1:A:398:GLU:O	1:A:419:ILE:C	2.30	0.74
1:A:462:GLN:O	1:A:463:ASP:C	2.26	0.74
2:B:378:THR:CG2	2:B:379:LYS:H	1.99	0.74
2:B:390:VAL:HA	2:B:393:ILE:HD12	1.69	0.74
2:B:505:ASP:O	2:B:506:ASN:C	2.17	0.74
2:B:602:ASP:O	2:B:608:ARG:CZ	2.36	0.74
3:M:67:SER:OG	3:M:90:PHE:CB	2.35	0.74
3:M:95:THR:O	3:M:99:ILE:HD12	1.87	0.74
1:A:80:TYR:HB2	1:A:82:PHE:CE2	2.22	0.74
1:A:142:LYS:CA	4:S:159:ALA:HB1	2.17	0.74
1:A:179:LYS:NZ	4:S:149:ILE:HG12	2.01	0.74
1:A:212:ILE:CG2	1:A:247:ILE:HD13	2.17	0.74
1:A:398:GLU:O	1:A:420:ILE:CG1	2.34	0.74
2:B:178:ILE:HG13	2:B:214:ALA:CB	2.18	0.74
3:M:222:PHE:CE1	3:M:240:ILE:CG2	2.70	0.74
3:M:360:LEU:HD21	3:M:362:PHE:CE2	2.23	0.74
1:A:219:VAL:C	4:S:140:MET:SD	2.49	0.74
1:A:304:LEU:HA	1:A:308:ASP:HB2	1.67	0.74
1:A:540:ILE:CG1	1:A:551:LEU:HD23	2.16	0.74
2:B:20:ARG:CG	2:B:21:GLU:N	2.49	0.74
2:B:225:LEU:CD1	2:B:283:TYR:HE1	1.83	0.74
1:A:105:VAL:CG2	4:S:167:ILE:CB	2.66	0.74
1:A:506:LYS:HE2	3:M:58:ARG:CA	2.18	0.74
2:B:175:LEU:CD2	2:B:210:CYS:CA	2.65	0.74
2:B:277:CYS:CB	2:B:292:GLU:HG3	2.16	0.74
3:M:17:GLN:O	3:M:118:TYR:OH	2.02	0.74
3:M:220:GLU:CD	3:M:442:GLN:HB3	2.12	0.74
1:A:67:LYS:HB3	4:S:166:LYS:HA	1.70	0.74
1:A:97:SER:C	1:A:98:ASN:O	2.05	0.74
1:A:436:CYS:HB2	1:A:450:TYR:CE1	2.23	0.74
1:A:606:PHE:CZ	2:B:550:VAL:HG11	2.21	0.74
1:A:624:LEU:O	2:B:617:LEU:HD11	1.88	0.74
2:B:490:ILE:HG23	2:B:515:PHE:CD2	2.23	0.74
2:B:584:SER:O	2:B:585:GLY:C	2.20	0.74
3:M:5:PHE:CD2	3:M:78:ALA:HB3	2.16	0.74
3:M:101:LEU:CD1	3:M:106:LYS:CA	2.65	0.74
1:A:213:SER:H	4:S:148:ARG:HD3	1.52	0.73
1:A:383:ASN:O	1:A:387:ILE:HG12	1.88	0.73
2:B:90:ILE:HG12	2:B:98:LYS:HE2	1.69	0.73
2:B:162:VAL:HG11	2:B:195:ILE:HA	1.67	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:171:GLY:HA3	2:B:207:VAL:CB	2.18	0.73
2:B:497:LEU:CD2	2:B:533:LEU:HD22	2.18	0.73
3:M:10:THR:HG23	3:M:11:LYS:HG3	1.70	0.73
3:M:94:GLU:O	3:M:97:ASP:HB2	1.88	0.73
1:A:132:LEU:CD1	1:A:165:ASP:CB	2.65	0.73
1:A:211:ASP:CG	4:S:148:ARG:NH1	2.46	0.73
1:A:384:LEU:CD1	1:A:441:TYR:CE2	2.71	0.73
1:A:450:TYR:O	1:A:454:ILE:HG12	1.88	0.73
1:A:513:ARG:CD	1:A:550:VAL:CG2	2.53	0.73
1:A:633:PHE:CZ	2:B:513:TRP:CE3	2.70	0.73
2:B:114:ASN:O	2:B:117:LEU:HB2	1.87	0.73
2:B:132:SER:HB2	2:B:166:SER:HB3	1.70	0.73
2:B:430:ILE:HG23	2:B:470:ALA:CB	2.18	0.73
2:B:478:LEU:O	2:B:480:GLN:N	2.21	0.73
2:B:553:ALA:CB	2:B:614:ILE:CG2	2.66	0.73
1:A:212:ILE:O	1:A:213:SER:C	2.21	0.73
2:B:83:PHE:HE2	2:B:119:SER:HA	1.53	0.73
2:B:141:ALA:O	2:B:143:SER:N	2.21	0.73
2:B:175:LEU:CG	2:B:210:CYS:CB	2.63	0.73
3:M:55:MET:O	3:M:56:VAL:C	2.17	0.73
3:M:217:ASP:H	3:M:470:ALA:CB	1.93	0.73
3:M:222:PHE:CG	3:M:439:TYR:CE1	2.76	0.73
4:S:109:LEU:CD1	4:S:113:PHE:HD1	1.70	0.73
1:A:378:ILE:O	1:A:378:ILE:HG13	1.87	0.73
2:B:479:VAL:HG22	2:B:486:HIS:CG	2.22	0.73
2:B:513:TRP:CB	2:B:551:LEU:HD11	2.18	0.73
3:M:45:SER:CB	3:M:51:LEU:CD1	2.62	0.73
4:S:4:ALA:CA	4:S:18:LYS:O	2.35	0.73
4:S:15:ARG:HH21	4:S:118:GLU:CD	1.96	0.73
1:A:101:GLN:CD	4:S:167:ILE:HG21	2.12	0.73
1:A:186:PHE:HE2	1:A:187:LYS:HD3	1.53	0.73
1:A:254:ILE:HG23	1:A:293:GLU:CG	2.16	0.73
2:B:70:MET:HE1	2:B:104:TYR:C	2.12	0.73
2:B:108:PHE:HE2	2:B:115:LEU:HB2	1.50	0.73
3:M:247:ARG:H	3:M:470:ALA:HB2	1.53	0.73
3:M:443:SER:CB	3:M:447:ILE:N	2.51	0.73
1:A:102:GLN:NE2	4:S:165:SER:N	2.37	0.73
1:A:319:LEU:O	1:A:320:HIS:O	2.07	0.73
1:A:322:PHE:CD2	1:A:330:LEU:CD2	2.71	0.73
1:A:516:ILE:HG12	1:A:551:LEU:HD13	1.68	0.73
1:A:523:SER:HG	1:A:562:TRP:NE1	1.80	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:633:PHE:HE1	2:B:513:TRP:CZ3	1.88	0.73
2:B:132:SER:O	2:B:133:GLU:C	2.24	0.73
2:B:212:VAL:HG21	2:B:248:LEU:CD2	2.14	0.73
2:B:343:LEU:O	2:B:347:VAL:HG23	1.88	0.73
2:B:438:ARG:HA	2:B:441:GLN:HE21	1.52	0.73
2:B:476:ARG:HA	2:B:514:LEU:HD13	1.69	0.73
2:B:542:PRO:C	2:B:602:ASP:OD2	2.31	0.73
2:B:567:GLN:N	2:B:574:ASN:ND2	2.33	0.73
3:M:101:LEU:HD12	3:M:109:LEU:CD1	2.18	0.73
3:M:437:TYR:CD1	3:M:479:PHE:CE1	2.76	0.73
1:A:634:ASN:ND2	2:B:554:LYS:HB3	1.79	0.73
3:M:96:ILE:HG21	3:M:125:PHE:CZ	2.24	0.73
3:M:262:THR:O	3:M:264:GLY:N	2.20	0.73
3:M:338:PHE:HE2	3:M:415:ILE:CG1	2.02	0.73
4:S:17:VAL:CG1	4:S:19:PHE:CE1	2.71	0.73
1:A:630:PRO:CB	2:B:614:ILE:HG23	2.19	0.73
2:B:176:ALA:C	2:B:178:ILE:N	2.44	0.73
2:B:208:ILE:HD13	2:B:236:ILE:HG21	0.73	0.73
2:B:374:PHE:CZ	2:B:398:ILE:HG21	2.24	0.73
2:B:508:ARG:HD2	2:B:544:THR:HG21	1.70	0.73
3:M:245:ASP:OD1	3:M:297:PHE:C	2.32	0.73
4:S:146:VAL:O	4:S:150:VAL:HG23	1.88	0.73
1:A:185:LEU:HD12	1:A:203:PHE:CZ	2.23	0.73
1:A:495:ILE:HD12	1:A:515:CYS:SG	2.28	0.73
2:B:237:ILE:HG12	2:B:309:LEU:HD21	1.70	0.73
2:B:374:PHE:CE1	2:B:381:PHE:CD1	2.77	0.73
2:B:403:ILE:HD11	2:B:442:LEU:HD12	1.70	0.73
2:B:418:TYR:CD1	2:B:424:PHE:CD1	2.75	0.73
2:B:508:ARG:CD	2:B:544:THR:HG21	2.18	0.73
2:B:515:PHE:CD2	2:B:529:VAL:HG11	2.23	0.73
4:S:109:LEU:HD12	4:S:113:PHE:CE1	1.91	0.73
1:A:609:LEU:HG	1:A:628:VAL:CG1	2.19	0.73
2:B:37:TYR:O	2:B:38:TYR:C	2.31	0.73
2:B:154:ILE:HG23	2:B:176:ALA:HB1	1.71	0.73
2:B:174:ALA:O	2:B:214:ALA:HB1	1.88	0.73
2:B:177:ILE:HG21	2:B:196:LEU:CD1	2.18	0.73
2:B:275:ARG:CB	2:B:294:VAL:HG13	1.82	0.73
2:B:352:ASN:HB2	3:M:49:ASP:CG	2.12	0.73
2:B:393:ILE:CG2	2:B:431:MET:HB2	2.18	0.73
3:M:65:TYR:CE2	3:M:86:PRO:CB	2.68	0.73
3:M:290:PHE:HZ	3:M:297:PHE:CD2	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:343:ASN:HD22	3:M:343:ASN:N	1.87	0.73
4:S:10:LYS:HB3	4:S:82:THR:O	1.89	0.73
1:A:100:LEU:N	4:S:162:SER:CA	2.48	0.72
1:A:252:ILE:HG12	4:S:145:ASN:N	2.04	0.72
2:B:154:ILE:HD12	2:B:180:LEU:CB	2.18	0.72
3:M:126:ASN:O	3:M:130:GLU:HG2	1.88	0.72
3:M:257:ALA:CB	3:M:455:VAL:HG21	2.19	0.72
4:S:50:PHE:CB	4:S:76:ILE:HD13	2.19	0.72
4:S:53:THR:CG2	4:S:68:VAL:CA	2.63	0.72
1:A:223:CYS:O	1:A:226:SER:OG	2.03	0.72
1:A:263:LEU:O	1:A:266:VAL:O	2.07	0.72
1:A:350:SER:O	1:A:351:ARG:C	2.26	0.72
1:A:408:ILE:HD12	1:A:410:TYR:HE1	1.51	0.72
1:A:557:LYS:CE	2:B:606:ASP:CA	2.57	0.72
1:A:627:GLU:N	2:B:613:MET:HE2	2.04	0.72
1:A:633:PHE:HB3	2:B:550:VAL:O	1.88	0.72
3:M:7:ILE:HG23	3:M:75:TRP:O	1.89	0.72
3:M:316:ARG:O	3:M:318:ASN:N	2.21	0.72
1:A:147:LEU:HD21	1:A:166:LEU:HD23	1.66	0.72
1:A:402:ILE:O	1:A:402:ILE:CG2	2.36	0.72
2:B:42:ILE:O	2:B:46:GLN:CD	2.31	0.72
2:B:63:MET:CG	2:B:100:LEU:CB	2.67	0.72
2:B:352:ASN:H	2:B:352:ASN:HD22	1.37	0.72
2:B:523:PHE:CD1	2:B:559:ASP:CG	2.67	0.72
2:B:553:ALA:CA	2:B:614:ILE:CG2	2.66	0.72
4:S:47:GLN:OE1	4:S:78:LYS:C	2.32	0.72
2:B:159:LYS:HD2	2:B:191:GLU:CG	2.18	0.72
2:B:166:SER:O	2:B:170:ARG:HG3	1.89	0.72
2:B:267:ASP:O	2:B:268:LYS:C	2.29	0.72
2:B:490:ILE:O	2:B:515:PHE:HZ	1.71	0.72
3:M:339:GLU:CD	3:M:412:ARG:CD	2.60	0.72
4:S:135:ILE:CG2	4:S:141:VAL:HG22	2.20	0.72
1:A:461:CYS:HB2	1:A:469:LEU:HD23	1.71	0.72
1:A:599:ARG:HD2	2:B:547:GLN:NE2	2.04	0.72
1:A:635:ALA:C	2:B:517:GLU:HA	2.15	0.72
2:B:64:LYS:HA	2:B:100:LEU:HD22	1.71	0.72
2:B:106:LEU:CD1	2:B:144:ASP:CA	2.68	0.72
2:B:162:VAL:HG21	2:B:195:ILE:CA	2.20	0.72
2:B:252:LEU:CB	2:B:302:PHE:CE1	2.73	0.72
2:B:278:PRO:N	2:B:292:GLU:OE1	2.22	0.72
2:B:368:ILE:CD1	2:B:401:THR:HG22	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:416:LYS:HD2	2:B:453:TRP:CE2	2.25	0.72
3:M:317:MET:CB	3:M:321:GLY:C	2.57	0.72
3:M:353:VAL:CG2	3:M:438:SER:O	2.37	0.72
3:M:379:LEU:HD23	3:M:386:PHE:CB	2.15	0.72
1:A:564:ASN:OD1	1:A:622:PRO:CG	2.38	0.72
1:A:606:PHE:CZ	2:B:550:VAL:CG1	2.72	0.72
1:A:637:GLU:HB2	2:B:551:LEU:HD22	1.69	0.72
2:B:277:CYS:O	2:B:288:TYR:CA	2.37	0.72
2:B:398:ILE:O	2:B:401:THR:N	2.18	0.72
2:B:472:VAL:HG11	2:B:510:GLY:HA3	0.73	0.72
4:S:44:SER:O	4:S:47:GLN:HB2	1.89	0.72
4:S:108:SER:HB3	4:S:149:ILE:HG22	1.70	0.72
1:A:63:ASP:O	1:A:67:LYS:HG3	1.90	0.72
1:A:94:VAL:HG13	1:A:102:GLN:HB3	1.64	0.72
1:A:223:CYS:CB	1:A:259:LEU:HG	2.17	0.72
1:A:291:ILE:HG13	1:A:318:ARG:HG2	1.70	0.72
2:B:133:GLU:HA	2:B:168:MET:SD	2.28	0.72
2:B:170:ARG:CZ	2:B:198:GLU:HG2	2.20	0.72
2:B:554:LYS:O	2:B:557:SER:N	2.21	0.72
3:M:6:TYR:CD2	3:M:14:LEU:HD11	2.24	0.72
3:M:225:VAL:HA	3:M:480:GLN:O	1.90	0.72
3:M:243:ILE:HG22	3:M:472:TYR:HB3	1.72	0.72
4:S:9:ASN:CG	4:S:13:GLN:HB2	2.14	0.72
1:A:100:LEU:O	4:S:160:ALA:CA	1.85	0.72
1:A:557:LYS:HG3	2:B:606:ASP:HB2	1.71	0.72
1:A:566:PHE:C	1:A:568:GLU:H	1.96	0.72
2:B:20:ARG:HD2	2:B:21:GLU:CA	2.18	0.72
2:B:284:ASN:CB	2:B:285:GLU:HG3	2.20	0.72
2:B:564:LYS:CD	2:B:621:GLY:O	2.37	0.72
3:M:250:LEU:HD13	3:M:254:PRO:HG2	1.71	0.72
3:M:381:ASN:OD1	3:M:382:THR:N	2.23	0.72
4:S:75:ILE:CG2	4:S:77:TYR:CE1	2.72	0.72
1:A:105:VAL:CG2	4:S:167:ILE:CA	2.67	0.72
1:A:166:LEU:HD13	1:A:185:LEU:HG	1.70	0.72
1:A:213:SER:H	4:S:148:ARG:CD	1.90	0.72
1:A:226:SER:O	1:A:230:PRO:HG3	1.89	0.72
1:A:295:VAL:CG2	1:A:315:CYS:HB3	2.14	0.72
2:B:51:LEU:HD23	2:B:59:VAL:HG13	1.69	0.72
2:B:158:VAL:HG12	2:B:177:ILE:HD11	1.67	0.72
1:A:121:LEU:CD1	1:A:155:THR:HG23	2.20	0.72
1:A:204:VAL:O	1:A:205:SER:C	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:214:VAL:HG22	4:S:148:ARG:NH2	2.03	0.72
1:A:252:ILE:HG12	4:S:144:THR:OG1	1.89	0.72
2:B:177:ILE:HD11	2:B:195:ILE:HG21	1.72	0.72
2:B:227:HIS:CG	2:B:292:GLU:OE2	2.43	0.72
2:B:493:LEU:HG	2:B:511:ILE:CG2	2.18	0.72
3:M:290:PHE:HE1	3:M:297:PHE:CD1	2.05	0.72
1:A:441:TYR:HB3	1:A:444:VAL:CG2	2.20	0.71
2:B:63:MET:HG3	2:B:100:LEU:CB	2.19	0.71
2:B:363:ILE:CG2	2:B:398:ILE:HG12	2.19	0.71
2:B:374:PHE:CE2	2:B:402:LEU:HD11	2.25	0.71
3:M:96:ILE:O	3:M:100:LEU:HD12	1.90	0.71
3:M:219:LEU:HG	3:M:440:ILE:HG12	1.72	0.71
1:A:149:GLY:O	1:A:152:THR:N	2.15	0.71
1:A:268:PRO:HG3	1:A:271:ARG:HH21	1.55	0.71
1:A:554:ALA:O	1:A:557:LYS:N	2.23	0.71
1:A:603:VAL:HG22	2:B:610:ARG:HH21	1.55	0.71
2:B:578:PRO:CB	2:B:579:PRO:HD2	2.18	0.71
3:M:243:ILE:O	3:M:472:TYR:CG	2.42	0.71
3:M:258:VAL:HG13	3:M:449:VAL:HG11	1.71	0.71
4:S:14:PRO:O	4:S:15:ARG:HD3	1.90	0.71
4:S:57:LEU:CB	4:S:67:GLU:O	2.38	0.71
1:A:80:TYR:CG	1:A:82:PHE:CE2	2.78	0.71
1:A:170:LEU:CD1	1:A:206:LYS:HG3	2.21	0.71
1:A:212:ILE:CB	1:A:247:ILE:CD1	2.68	0.71
1:A:328:PRO:O	1:A:329:ASN:C	2.25	0.71
1:A:353:ASP:OD1	1:A:378:ILE:CD1	2.39	0.71
1:A:603:VAL:O	1:A:606:PHE:HB2	1.89	0.71
2:B:139:LEU:HD23	2:B:172:GLU:C	2.15	0.71
2:B:403:ILE:HB	2:B:408:VAL:HG22	1.72	0.71
2:B:545:ARG:CD	2:B:602:ASP:CB	2.65	0.71
2:B:546:CYS:HA	2:B:607:ILE:CB	2.20	0.71
2:B:550:VAL:O	2:B:553:ALA:HB3	1.89	0.71
3:M:4:SER:O	3:M:78:ALA:HB1	1.17	0.71
3:M:7:ILE:C	3:M:75:TRP:O	2.32	0.71
3:M:225:VAL:HG22	3:M:480:GLN:HB3	1.71	0.71
1:A:100:LEU:HD22	1:A:138:ASN:HB3	1.72	0.71
1:A:101:GLN:N	4:S:163:THR:H	1.88	0.71
1:A:103:LYS:CA	4:S:163:THR:HG21	2.20	0.71
1:A:121:LEU:HD11	1:A:155:THR:HG23	1.73	0.71
2:B:154:ILE:HD12	2:B:180:LEU:HB2	1.70	0.71
2:B:215:TYR:CE2	2:B:229:HIS:HB3	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:141:VAL:CB	4:S:159:ALA:CB	2.67	0.71
1:A:189:PHE:HB2	1:A:225:LEU:HD21	1.72	0.71
1:A:275:LEU:O	1:A:277:LYS:N	2.23	0.71
1:A:585:PHE:CE2	1:A:603:VAL:HG12	2.25	0.71
2:B:2:VAL:O	2:B:6:HIS:CD2	2.43	0.71
2:B:93:ASN:CA	2:B:134:LEU:HD11	2.21	0.71
2:B:195:ILE:C	2:B:197:LYS:N	2.43	0.71
2:B:431:MET:O	2:B:433:VAL:N	2.23	0.71
3:M:18:TYR:HE2	3:M:20:LEU:HD23	1.54	0.71
3:M:99:ILE:HD12	3:M:99:ILE:N	2.04	0.71
3:M:220:GLU:N	3:M:439:TYR:O	2.23	0.71
3:M:287:ASN:OD1	3:M:288:ILE:N	2.22	0.71
3:M:341:SER:HG	3:M:343:ASN:HD21	1.38	0.71
3:M:347:PHE:CZ	3:M:350:VAL:HG11	2.26	0.71
3:M:374:TYR:HB3	3:M:417:TYR:CD2	2.23	0.71
3:M:376:ILE:HD12	3:M:415:ILE:HG12	1.71	0.71
4:S:53:THR:H	4:S:69:ASN:CB	2.04	0.71
4:S:135:ILE:O	4:S:141:VAL:CG2	2.38	0.71
1:A:179:LYS:CD	4:S:143:GLU:CB	2.68	0.71
1:A:212:ILE:HB	1:A:247:ILE:HD12	1.73	0.71
1:A:329:ASN:OD1	4:S:50:PHE:HZ	1.72	0.71
1:A:566:PHE:HZ	1:A:618:THR:C	1.99	0.71
2:B:108:PHE:CD2	2:B:115:LEU:CB	2.73	0.71
2:B:120:ILE:CG1	2:B:150:LEU:HD22	2.21	0.71
2:B:231:ARG:NH2	2:B:297:PRO:HD2	2.04	0.71
2:B:247:TYR:HE2	3:M:91:THR:CG2	1.88	0.71
2:B:337:THR:HA	2:B:373:LEU:HD21	0.75	0.71
2:B:389:ILE:O	2:B:390:VAL:C	2.17	0.71
2:B:403:ILE:HG22	2:B:411:ILE:HD12	1.71	0.71
3:M:52:ASP:HA	3:M:68:VAL:N	2.04	0.71
3:M:101:LEU:CB	3:M:109:LEU:HD13	2.20	0.71
3:M:258:VAL:HG22	3:M:452:ILE:CG1	2.20	0.71
3:M:269:ILE:C	3:M:302:TYR:CE1	2.68	0.71
3:M:290:PHE:CE2	3:M:297:PHE:CE2	2.77	0.71
3:M:343:ASN:HA	3:M:408:VAL:CG1	2.11	0.71
3:M:405:THR:HG22	3:M:406:GLY:N	2.04	0.71
3:M:448:TYR:HE2	3:M:450:GLU:OE1	1.74	0.71
1:A:266:VAL:O	1:A:267:GLU:HB3	1.90	0.71
1:A:332:TYR:HE1	1:A:366:SER:HB2	1.56	0.71
1:A:436:CYS:CB	1:A:450:TYR:CE1	2.73	0.71
2:B:20:ARG:NH1	2:B:35:TYR:CZ	2.48	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:120:ILE:HG13	2:B:150:LEU:HD22	1.73	0.71
2:B:169:VAL:O	2:B:173:VAL:HG23	1.91	0.71
2:B:278:PRO:HB2	2:B:288:TYR:O	1.87	0.71
2:B:396:ILE:HD13	2:B:418:TYR:OH	1.89	0.71
3:M:81:SER:O	3:M:82:LYS:CB	2.38	0.71
3:M:256:VAL:CG2	3:M:452:ILE:HG22	2.20	0.71
4:S:98:ILE:O	4:S:102:ILE:HG13	1.91	0.71
1:A:638:LEU:HD11	2:B:526:CYS:SG	2.31	0.71
2:B:129:ASP:O	2:B:135:ARG:HD3	1.91	0.71
2:B:137:PHE:O	2:B:140:SER:HB3	1.91	0.71
2:B:267:ASP:HB3	2:B:289:PRO:CG	2.21	0.71
2:B:563:PHE:CA	2:B:566:ALA:HB3	2.19	0.71
3:M:65:TYR:CE1	3:M:86:PRO:CG	2.74	0.71
3:M:217:ASP:CG	3:M:471:LYS:CA	2.58	0.71
3:M:293:PRO:HB2	3:M:294:ASP:O	1.91	0.71
4:S:105:PHE:CZ	4:S:128:LEU:CD1	2.74	0.71
1:A:147:LEU:HB3	1:A:184:ALA:HB1	1.70	0.71
1:A:400:VAL:O	1:A:403:LEU:HB2	1.90	0.71
1:A:520:GLY:HA2	1:A:558:VAL:HG22	1.67	0.71
1:A:594:PHE:CD2	2:B:474:VAL:HG22	2.25	0.71
2:B:169:VAL:HG12	2:B:173:VAL:CG2	2.20	0.71
2:B:303:LEU:HD23	2:B:325:LEU:HD23	1.73	0.71
2:B:549:LEU:HG	2:B:614:ILE:CD1	2.20	0.71
4:S:7:ILE:HD12	4:S:16:LEU:HD23	1.71	0.71
1:A:179:LYS:O	4:S:142:ILE:HD11	1.91	0.71
1:A:602:GLU:CD	1:A:633:PHE:HE1	1.97	0.71
2:B:6:HIS:CG	3:M:25:PRO:HB3	2.26	0.71
2:B:47:LEU:CD2	2:B:66:ILE:HG12	1.93	0.71
2:B:50:LEU:HD23	2:B:62:ALA:HB2	1.73	0.71
2:B:94:ASP:C	2:B:134:LEU:HD21	2.16	0.71
3:M:341:SER:HA	3:M:411:LEU:H	1.56	0.71
3:M:360:LEU:HD23	3:M:362:PHE:HZ	1.55	0.71
3:M:372:ILE:CD1	3:M:428:VAL:HG22	2.21	0.71
2:B:252:LEU:HB3	2:B:302:PHE:CE2	2.25	0.70
2:B:275:ARG:HB3	2:B:291:TYR:CD2	2.25	0.70
2:B:368:ILE:HD13	2:B:401:THR:HG22	1.72	0.70
2:B:378:THR:CG2	2:B:379:LYS:N	2.54	0.70
2:B:418:TYR:CD1	2:B:419:VAL:HA	2.26	0.70
2:B:437:SER:C	2:B:478:LEU:HD21	2.15	0.70
3:M:219:LEU:O	3:M:474:THR:HG21	1.91	0.70
3:M:323:MET:CE	3:M:342:LEU:HB3	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:373:ALA:O	3:M:418:GLU:N	2.24	0.70
4:S:50:PHE:CB	4:S:76:ILE:HA	2.20	0.70
1:A:528:ASN:O	1:A:530:ASN:N	2.24	0.70
2:B:375:LEU:O	2:B:377:TYR:N	2.23	0.70
2:B:458:MET:O	2:B:460:SER:N	2.25	0.70
2:B:530:LEU:HD23	2:B:591:MET:CB	2.21	0.70
3:M:224:VAL:CG2	3:M:479:PHE:CD1	2.74	0.70
3:M:343:ASN:HD22	3:M:343:ASN:H	1.39	0.70
4:S:135:ILE:HG22	4:S:141:VAL:CG2	2.20	0.70
1:A:100:LEU:O	1:A:101:GLN:C	2.16	0.70
1:A:103:LYS:N	4:S:163:THR:OG1	2.14	0.70
1:A:179:LYS:O	4:S:142:ILE:CD1	2.40	0.70
2:B:127:LEU:HA	2:B:161:LEU:HD11	1.72	0.70
2:B:245:GLN:NE2	2:B:309:LEU:HD11	2.05	0.70
2:B:285:GLU:O	2:B:286:ILE:HG22	1.91	0.70
2:B:549:LEU:CD1	2:B:611:ALA:HB2	2.07	0.70
3:M:215:TYR:HB3	3:M:467:TYR:CD2	2.21	0.70
3:M:240:ILE:HD11	3:M:306:LEU:HD11	1.72	0.70
1:A:129:LYS:HD2	1:A:161:ASP:HB3	1.73	0.70
1:A:222:ILE:HD12	1:A:240:LEU:HD21	1.71	0.70
2:B:141:ALA:O	2:B:142:LEU:C	2.31	0.70
2:B:212:VAL:HG13	2:B:248:LEU:HD23	1.71	0.70
2:B:267:ASP:O	2:B:269:SER:N	2.25	0.70
2:B:515:PHE:CE2	2:B:529:VAL:CG2	2.73	0.70
2:B:546:CYS:CA	2:B:607:ILE:CG1	2.54	0.70
3:M:306:LEU:O	3:M:307:SER:O	2.10	0.70
3:M:331:LEU:HD12	3:M:331:LEU:O	1.91	0.70
1:A:105:VAL:HG21	4:S:167:ILE:HA	1.73	0.70
1:A:150:LEU:HD22	1:A:162:ILE:HG12	1.73	0.70
1:A:163:ALA:CB	1:A:195:ALA:CB	2.55	0.70
2:B:175:LEU:CD2	2:B:210:CYS:C	2.64	0.70
2:B:215:TYR:CE1	2:B:233:TYR:CE1	2.77	0.70
2:B:292:GLU:CG	2:B:296:ASP:CB	2.65	0.70
2:B:563:PHE:CD2	2:B:584:SER:HB3	2.24	0.70
3:M:65:TYR:CD2	3:M:86:PRO:HB3	2.26	0.70
3:M:213:GLU:C	3:M:467:TYR:HB2	2.16	0.70
3:M:244:VAL:CB	3:M:300:LEU:HG	2.20	0.70
3:M:258:VAL:HG22	3:M:452:ILE:HG21	1.72	0.70
3:M:283:PHE:CE1	3:M:289:THR:OG1	2.39	0.70
3:M:452:ILE:HD12	3:M:452:ILE:N	2.06	0.70
4:S:69:ASN:OD1	4:S:73:ILE:O	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:120:ILE:HD12	2:B:142:LEU:HD22	1.72	0.70
2:B:306:LEU:HD22	2:B:321:CYS:HA	1.72	0.70
2:B:353:GLN:HG2	3:M:48:ASP:C	2.17	0.70
3:M:215:TYR:O	3:M:246:VAL:HG13	1.90	0.70
3:M:256:VAL:CG2	3:M:452:ILE:CG2	2.70	0.70
2:B:159:LYS:CE	2:B:191:GLU:OE1	2.39	0.70
2:B:252:LEU:HB3	2:B:302:PHE:CG	2.27	0.70
2:B:545:ARG:HD2	2:B:602:ASP:CG	2.17	0.70
3:M:217:ASP:OD1	3:M:217:ASP:O	2.10	0.70
3:M:374:TYR:H	3:M:390:ILE:HG23	1.56	0.70
1:A:129:LYS:HD2	1:A:161:ASP:CB	2.22	0.70
1:A:182:ILE:HG21	1:A:218:ALA:CA	2.22	0.70
1:A:421:PRO:HB2	1:A:424:TYR:CD1	2.27	0.70
2:B:139:LEU:HD23	2:B:172:GLU:O	1.91	0.70
2:B:211:ALA:C	2:B:233:TYR:CZ	2.52	0.70
2:B:278:PRO:CA	2:B:292:GLU:OE1	2.40	0.70
2:B:475:ILE:HG22	2:B:514:LEU:CD2	2.22	0.70
2:B:515:PHE:HE2	2:B:529:VAL:CG2	2.01	0.70
2:B:589:SER:HG	2:B:618:PHE:HZ	1.35	0.70
3:M:246:VAL:HB	3:M:297:PHE:CE1	2.26	0.70
4:S:16:LEU:HD12	4:S:17:VAL:N	2.07	0.70
1:A:67:LYS:CG	4:S:165:SER:OG	2.40	0.70
1:A:480:LEU:C	1:A:480:LEU:HD13	2.17	0.70
1:A:609:LEU:CD2	1:A:628:VAL:CG2	2.56	0.70
2:B:178:ILE:CG2	2:B:214:ALA:C	2.64	0.70
2:B:230:PHE:HD2	2:B:298:ASP:CB	2.03	0.70
3:M:276:VAL:CG2	3:M:299:LEU:HD12	2.21	0.70
4:S:34:GLN:CD	4:S:58:LEU:HD21	2.17	0.70
1:A:237:SER:N	1:A:238:PRO:HD2	2.07	0.70
1:A:582:ILE:CD1	1:A:608:ARG:HA	2.22	0.70
1:A:603:VAL:HG22	2:B:610:ARG:NH2	2.07	0.70
2:B:20:ARG:CZ	2:B:35:TYR:OH	2.38	0.70
2:B:159:LYS:HE3	2:B:191:GLU:CD	2.16	0.70
2:B:216:LYS:HB2	2:B:251:LEU:CD1	2.04	0.70
2:B:422:ALA:HB2	2:B:424:PHE:CE1	2.27	0.70
3:M:217:ASP:OD2	3:M:470:ALA:O	2.09	0.70
3:M:226:PHE:O	3:M:481:VAL:HA	1.91	0.70
3:M:350:VAL:HG13	3:M:442:GLN:HB2	1.72	0.70
4:S:5:VAL:HB	4:S:132:LEU:CD2	2.21	0.70
4:S:75:ILE:CG2	4:S:77:TYR:CZ	2.75	0.70
4:S:75:ILE:HG21	4:S:77:TYR:CZ	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:LYS:O	1:A:413:SER:C	2.31	0.69
1:A:450:TYR:CE1	1:A:454:ILE:HD11	2.25	0.69
1:A:488:ARG:CG	1:A:522:PHE:CE2	2.71	0.69
2:B:42:ILE:O	2:B:43:ASN:CB	2.40	0.69
2:B:196:LEU:C	2:B:229:HIS:CE1	2.69	0.69
2:B:334:MET:HE2	2:B:334:MET:CA	2.15	0.69
2:B:408:VAL:HG11	2:B:412:PHE:CE2	2.27	0.69
2:B:546:CYS:SG	2:B:607:ILE:HG13	2.32	0.69
2:B:574:ASN:O	2:B:576:GLN:O	2.10	0.69
2:B:592:TYR:CZ	2:B:619:ASP:OD1	2.44	0.69
2:B:599:ALA:O	2:B:601:TYR:N	2.25	0.69
3:M:9:ASP:CA	3:M:75:TRP:HD1	2.04	0.69
1:A:107:TYR:HB3	1:A:149:GLY:HA3	1.74	0.69
1:A:217:ALA:HB1	4:S:142:ILE:HD12	0.73	0.69
2:B:36:THR:O	2:B:40:GLN:HB2	1.93	0.69
2:B:120:ILE:HG22	2:B:153:ILE:HB	1.74	0.69
3:M:53:HIS:HB3	3:M:65:TYR:CE1	2.28	0.69
3:M:323:MET:SD	3:M:342:LEU:HA	2.32	0.69
1:A:196:LEU:HD22	1:A:196:LEU:C	2.15	0.69
1:A:252:ILE:CG1	4:S:144:THR:OG1	2.41	0.69
1:A:421:PRO:HG2	1:A:424:TYR:CZ	2.27	0.69
2:B:68:SER:O	2:B:71:ALA:N	2.24	0.69
2:B:319:LEU:HD13	2:B:358:MET:HG2	1.69	0.69
2:B:563:PHE:CE2	2:B:584:SER:HA	2.25	0.69
1:A:215:VAL:HG21	1:A:243:ILE:CD1	2.15	0.69
1:A:636:TYR:N	2:B:554:LYS:HD3	1.95	0.69
2:B:141:ALA:C	2:B:143:SER:N	2.46	0.69
2:B:155:LEU:HD13	2:B:156:HIS:N	2.07	0.69
2:B:435:SER:O	2:B:437:SER:N	2.26	0.69
2:B:508:ARG:HB3	2:B:544:THR:HG23	1.68	0.69
2:B:550:VAL:CG2	2:B:610:ARG:HD2	2.22	0.69
3:M:101:LEU:HD11	3:M:106:LYS:O	1.91	0.69
3:M:231:SER:O	3:M:326:HIS:CE1	2.46	0.69
1:A:140:VAL:HG13	1:A:176:TYR:CB	2.21	0.69
1:A:147:LEU:HB3	1:A:184:ALA:HB3	1.67	0.69
1:A:225:LEU:HB3	1:A:233:PHE:CZ	2.26	0.69
2:B:67:ILE:CD1	2:B:103:LEU:CB	2.71	0.69
2:B:162:VAL:HG23	2:B:195:ILE:HG22	1.54	0.69
2:B:174:ALA:HB1	2:B:211:ALA:CB	2.22	0.69
2:B:178:ILE:HA	2:B:218:CYS:CB	2.14	0.69
2:B:215:TYR:HD2	2:B:226:LEU:CD1	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:247:TYR:CZ	3:M:91:THR:CG2	2.68	0.69
2:B:306:LEU:HD12	2:B:325:LEU:HD23	1.73	0.69
2:B:353:GLN:CG	3:M:47:SER:CB	2.70	0.69
2:B:493:LEU:CD2	2:B:511:ILE:HG23	2.22	0.69
1:A:250:ASN:OD1	1:A:285:THR:CB	2.38	0.69
1:A:408:ILE:N	4:S:64:ASN:HB2	2.07	0.69
2:B:219:TYR:CD2	2:B:226:LEU:CB	2.64	0.69
2:B:322:CYS:HA	2:B:325:LEU:HD12	1.73	0.69
3:M:101:LEU:C	3:M:106:LYS:CA	2.64	0.69
1:A:323:CYS:HG	1:A:338:PHE:HE1	0.74	0.69
1:A:391:LEU:O	1:A:392:MET:C	2.17	0.69
2:B:64:LYS:HG3	2:B:100:LEU:HD11	1.73	0.69
2:B:206:LYS:O	2:B:210:CYS:SG	2.42	0.69
2:B:433:VAL:CG1	2:B:474:VAL:HB	2.22	0.69
2:B:569:THR:HG22	2:B:569:THR:O	1.92	0.69
4:S:9:ASN:ND2	4:S:13:GLN:CB	2.55	0.69
4:S:135:ILE:C	4:S:141:VAL:HG22	2.18	0.69
1:A:104:ARG:HE	4:S:160:ALA:CB	2.06	0.69
1:A:140:VAL:HG11	1:A:176:TYR:HB2	1.64	0.69
1:A:186:PHE:CE2	1:A:187:LYS:HD3	2.28	0.69
1:A:206:LYS:HE2	1:A:206:LYS:HA	1.74	0.69
1:A:207:LEU:HD21	1:A:239:LEU:HB2	1.75	0.69
1:A:282:MET:HE1	1:A:315:CYS:SG	2.32	0.69
1:A:288:THR:HA	1:A:291:ILE:HD13	1.73	0.69
1:A:477:PHE:CE2	1:A:481:MET:SD	2.86	0.69
1:A:594:PHE:CD1	2:B:434:LYS:HE2	2.27	0.69
2:B:37:TYR:CE2	2:B:38:TYR:CD1	2.77	0.69
2:B:121:ASN:O	2:B:124:GLN:HB3	1.93	0.69
2:B:177:ILE:CB	2:B:196:LEU:HD21	2.18	0.69
2:B:178:ILE:HG12	2:B:214:ALA:HB1	1.74	0.69
2:B:182:ARG:NE	2:B:217:GLU:OE1	2.26	0.69
2:B:214:ALA:C	2:B:216:LYS:N	2.48	0.69
2:B:230:PHE:CE2	2:B:234:CYS:SG	2.86	0.69
2:B:236:ILE:CG2	2:B:240:LEU:HD11	2.21	0.69
2:B:508:ARG:CB	2:B:544:THR:HG21	2.22	0.69
2:B:513:TRP:CB	2:B:551:LEU:CD2	2.67	0.69
2:B:519:ALA:O	2:B:523:PHE:CA	2.41	0.69
2:B:525:ILE:O	2:B:527:PRO:HD2	1.93	0.69
3:M:16:PHE:HZ	3:M:18:TYR:HB2	1.52	0.69
3:M:214:LEU:O	3:M:467:TYR:CA	2.41	0.69
3:M:215:TYR:O	3:M:470:ALA:HB2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:224:VAL:O	3:M:479:PHE:CB	2.40	0.69
3:M:233:LEU:HD21	3:M:325:LEU:H	1.56	0.69
3:M:235:LEU:HD11	3:M:306:LEU:HB3	1.71	0.69
3:M:246:VAL:HA	3:M:470:ALA:HB1	1.74	0.69
1:A:103:LYS:C	1:A:107:TYR:CD1	2.70	0.69
1:A:189:PHE:CB	1:A:225:LEU:CD2	2.71	0.69
1:A:252:ILE:HG13	4:S:145:ASN:N	2.07	0.69
1:A:272:ALA:O	1:A:276:PRO:HD3	1.93	0.69
1:A:298:ILE:CD1	1:A:311:THR:CG2	2.69	0.69
1:A:629:LEU:CD1	2:B:610:ARG:HH11	1.74	0.69
2:B:116:THR:O	2:B:120:ILE:HG12	1.93	0.69
2:B:215:TYR:CZ	2:B:229:HIS:CB	2.76	0.69
2:B:267:ASP:O	2:B:276:SER:HB2	1.93	0.69
2:B:275:ARG:HG3	2:B:291:TYR:CE2	2.28	0.69
2:B:357:GLU:HG2	2:B:361:GLN:NE2	2.06	0.69
2:B:374:PHE:HZ	2:B:381:PHE:CD1	2.09	0.69
2:B:513:TRP:C	2:B:551:LEU:HD22	2.17	0.69
3:M:260:LEU:HD23	3:M:449:VAL:HG22	0.73	0.69
3:M:374:TYR:HB2	3:M:417:TYR:CD2	2.28	0.69
3:M:378:ILE:HB	3:M:413:GLY:HA2	1.73	0.69
4:S:7:ILE:CG2	4:S:121:LEU:CD2	2.70	0.69
1:A:231:GLN:HB2	1:A:232:PRO:HD3	1.74	0.69
1:A:322:PHE:HD2	1:A:330:LEU:HD21	1.53	0.69
1:A:332:TYR:CZ	1:A:336:ILE:CD1	2.75	0.69
1:A:482:ILE:HG12	1:A:517:TRP:CZ3	2.27	0.69
1:A:582:ILE:HG12	1:A:607:LEU:HB2	1.74	0.69
2:B:87:VAL:O	2:B:90:ILE:HG22	1.93	0.69
2:B:171:GLY:HA3	2:B:207:VAL:HA	1.75	0.69
2:B:523:PHE:HB2	2:B:559:ASP:OD2	1.93	0.69
2:B:575:ASN:C	2:B:576:GLN:O	2.26	0.69
3:M:472:TYR:CD1	3:M:472:TYR:N	2.58	0.69
4:S:75:ILE:HG21	4:S:77:TYR:OH	1.92	0.69
1:A:64:LEU:CG	1:A:102:GLN:NE2	2.44	0.68
1:A:67:LYS:CG	4:S:165:SER:HG	2.07	0.68
1:A:186:PHE:HD2	1:A:187:LYS:N	1.91	0.68
1:A:211:ASP:OD2	4:S:148:ARG:HD3	1.93	0.68
1:A:223:CYS:HB2	1:A:259:LEU:CG	2.19	0.68
1:A:488:ARG:HG2	1:A:522:PHE:CD2	2.28	0.68
1:A:552:ILE:HG22	1:A:603:VAL:HG21	1.74	0.68
2:B:8:ILE:O	2:B:12:LEU:HD12	1.92	0.68
2:B:135:ARG:CZ	2:B:164:ASP:HB2	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:306:LEU:HB2	2:B:325:LEU:HD21	1.74	0.68
2:B:360:LEU:HD11	2:B:391:ALA:CB	2.22	0.68
2:B:542:PRO:O	2:B:545:ARG:N	2.26	0.68
2:B:592:TYR:HD2	2:B:618:PHE:CE2	2.09	0.68
3:M:339:GLU:HG3	3:M:412:ARG:HD3	1.75	0.68
3:M:410:VAL:HG13	3:M:412:ARG:NH1	2.08	0.68
4:S:87:PHE:CE1	4:S:102:ILE:HG12	2.27	0.68
1:A:125:THR:C	1:A:127:LEU:N	2.50	0.68
1:A:244:LEU:HB2	1:A:256:LEU:HD13	1.74	0.68
1:A:630:PRO:CG	2:B:614:ILE:CA	2.60	0.68
2:B:48:VAL:O	2:B:51:LEU:N	2.22	0.68
2:B:98:LYS:NZ	2:B:134:LEU:CB	2.46	0.68
2:B:307:ASN:OD1	2:B:339:PHE:HD2	1.76	0.68
2:B:340:ILE:CG1	2:B:373:LEU:CD2	2.70	0.68
2:B:352:ASN:CB	3:M:49:ASP:CB	2.48	0.68
1:A:636:TYR:H	2:B:554:LYS:NZ	1.90	0.68
2:B:380:LYS:HZ2	3:M:236:LEU:CG	2.05	0.68
3:M:66:PHE:HE2	3:M:77:LEU:O	1.77	0.68
3:M:67:SER:HG	3:M:90:PHE:HD1	0.70	0.68
3:M:101:LEU:CD1	3:M:109:LEU:HD13	2.22	0.68
3:M:222:PHE:CD1	3:M:439:TYR:CE1	2.81	0.68
3:M:244:VAL:N	3:M:300:LEU:O	2.27	0.68
3:M:260:LEU:HA	3:M:448:TYR:O	1.93	0.68
4:S:85:PHE:CZ	4:S:109:LEU:HD23	2.28	0.68
4:S:111:ARG:CB	4:S:150:VAL:HG22	2.22	0.68
1:A:96:SER:HA	1:A:127:LEU:HG	1.76	0.68
1:A:132:LEU:C	1:A:169:MET:HE3	2.18	0.68
1:A:170:LEU:HB3	1:A:206:LYS:CG	2.23	0.68
1:A:566:PHE:CD1	1:A:570:LYS:HA	2.28	0.68
2:B:30:LEU:C	2:B:30:LEU:HD12	2.18	0.68
2:B:47:LEU:HD22	2:B:66:ILE:CB	2.15	0.68
2:B:93:ASN:C	2:B:134:LEU:HD11	2.18	0.68
2:B:177:ILE:HD12	2:B:196:LEU:CD2	2.24	0.68
2:B:219:TYR:HB2	2:B:226:LEU:HD22	1.73	0.68
3:M:223:HIS:CD2	3:M:478:ASN:HA	2.27	0.68
3:M:242:GLY:HA2	3:M:474:THR:CG2	2.22	0.68
3:M:319:SER:O	3:M:343:ASN:O	2.12	0.68
3:M:443:SER:HB3	3:M:447:ILE:CA	2.23	0.68
4:S:50:PHE:HA	4:S:77:TYR:HD1	1.58	0.68
1:A:79:MET:CG	1:A:112:GLN:OE1	2.40	0.68
1:A:104:ARG:NH1	4:S:126:GLN:C	2.52	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:277:LYS:O	1:A:277:LYS:HG3	1.94	0.68
1:A:297:CYS:O	1:A:298:ILE:C	2.32	0.68
1:A:303:MET:HG2	1:A:308:ASP:OD2	1.92	0.68
1:A:441:TYR:HB3	1:A:444:VAL:HG23	1.75	0.68
1:A:509:PRO:CB	1:A:547:VAL:CG2	2.67	0.68
1:A:589:SER:CB	1:A:601:VAL:CG2	2.70	0.68
2:B:2:VAL:HG21	3:M:58:ARG:HD2	1.75	0.68
2:B:45:GLN:C	2:B:47:LEU:H	2.01	0.68
2:B:102:HIS:ND1	2:B:137:PHE:CB	2.52	0.68
2:B:375:LEU:O	2:B:376:PRO:C	2.33	0.68
2:B:537:PHE:CD2	2:B:537:PHE:C	2.71	0.68
2:B:563:PHE:O	2:B:566:ALA:CB	2.42	0.68
3:M:65:TYR:CG	3:M:86:PRO:HA	2.29	0.68
3:M:215:TYR:HB2	3:M:467:TYR:C	2.18	0.68
3:M:224:VAL:HG22	3:M:306:LEU:HD12	1.73	0.68
3:M:225:VAL:HB	3:M:237:THR:OG1	1.93	0.68
3:M:421:GLY:O	3:M:422:PRO:C	2.22	0.68
1:A:105:VAL:HG21	4:S:167:ILE:CB	2.23	0.68
1:A:178:ARG:HB3	1:A:214:VAL:CG1	2.23	0.68
1:A:189:PHE:CD2	1:A:225:LEU:CD1	2.76	0.68
1:A:192:TYR:CE2	1:A:194:GLU:HB2	2.28	0.68
1:A:271:ARG:NH1	1:A:302:ASN:O	2.26	0.68
1:A:461:CYS:HB2	1:A:469:LEU:CD2	2.23	0.68
2:B:24:ALA:CB	2:B:35:TYR:CD2	2.68	0.68
2:B:146:LYS:O	2:B:147:MET:CG	2.42	0.68
2:B:412:PHE:CE2	2:B:446:TRP:HB3	2.22	0.68
2:B:422:ALA:CB	2:B:424:PHE:CD1	2.54	0.68
2:B:512:VAL:HG21	2:B:548:ILE:CG1	2.22	0.68
3:M:222:PHE:HB2	3:M:479:PHE:CE1	2.29	0.68
4:S:105:PHE:HZ	4:S:128:LEU:HD11	1.58	0.68
1:A:67:LYS:C	4:S:166:LYS:CA	2.66	0.68
1:A:214:VAL:HG23	4:S:148:ARG:NH2	2.08	0.68
1:A:240:LEU:O	1:A:241:TYR:O	2.11	0.68
1:A:244:LEU:CD1	1:A:281:LEU:HD11	2.24	0.68
1:A:482:ILE:HG12	1:A:517:TRP:HH2	1.58	0.68
2:B:90:ILE:HG13	2:B:98:LYS:HD3	1.74	0.68
2:B:247:TYR:OH	3:M:91:THR:HG21	1.94	0.68
2:B:361:GLN:HG2	2:B:394:TRP:CZ2	2.29	0.68
2:B:433:VAL:O	2:B:474:VAL:HG11	1.93	0.68
2:B:589:SER:HA	2:B:592:TYR:HD2	1.58	0.68
3:M:306:LEU:HD22	3:M:317:MET:CE	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:164:ASP:O	4:S:165:SER:C	2.20	0.68
1:A:605:GLU:CG	1:A:632:PHE:CE2	2.69	0.68
2:B:37:TYR:CE2	2:B:46:GLN:NE2	2.48	0.68
2:B:47:LEU:CD1	2:B:66:ILE:HA	2.23	0.68
2:B:216:LYS:CG	2:B:251:LEU:CD1	2.47	0.68
3:M:65:TYR:CD2	3:M:86:PRO:CA	2.76	0.68
3:M:244:VAL:CG1	3:M:472:TYR:CZ	2.75	0.68
3:M:246:VAL:HB	3:M:297:PHE:HZ	1.51	0.68
3:M:360:LEU:CD1	3:M:433:VAL:HB	2.23	0.68
4:S:9:ASN:ND2	4:S:118:GLU:OE1	2.27	0.68
1:A:102:GLN:N	4:S:167:ILE:CG1	2.55	0.68
1:A:558:VAL:O	1:A:561:ASN:N	2.15	0.68
2:B:20:ARG:CG	2:B:21:GLU:H	2.06	0.68
2:B:140:SER:O	2:B:143:SER:N	2.21	0.68
2:B:332:LEU:HG	2:B:332:LEU:O	1.93	0.68
2:B:452:LYS:HZ3	2:B:456:ASP:CG	2.01	0.68
2:B:508:ARG:O	2:B:509:ALA:C	2.30	0.68
2:B:549:LEU:HD13	2:B:611:ALA:HB2	1.71	0.68
3:M:10:THR:OG1	3:M:48:ASP:OD1	2.09	0.68
3:M:101:LEU:CD2	3:M:106:LYS:HG3	2.24	0.68
3:M:300:LEU:HD11	3:M:447:ILE:HD12	1.76	0.68
4:S:8:PHE:CB	4:S:36:TYR:OH	2.41	0.68
1:A:100:LEU:CD2	1:A:138:ASN:HB3	2.23	0.68
1:A:189:PHE:CE2	1:A:225:LEU:HD11	2.28	0.68
1:A:401:VAL:CG1	1:A:419:ILE:HD12	2.23	0.68
1:A:594:PHE:CD2	2:B:474:VAL:CG2	2.77	0.68
2:B:144:ASP:HA	2:B:179:LYS:HD3	1.72	0.68
4:S:137:GLN:C	4:S:140:MET:H	2.02	0.68
1:A:102:GLN:HB3	4:S:166:LYS:CG	2.23	0.67
1:A:212:ILE:HG22	1:A:247:ILE:HD13	1.75	0.67
2:B:124:GLN:CA	2:B:157:THR:OG1	2.31	0.67
2:B:148:SER:O	2:B:183:ALA:CB	2.36	0.67
3:M:223:HIS:HB3	3:M:478:ASN:CA	2.24	0.67
3:M:354:ASP:O	3:M:438:SER:O	2.12	0.67
3:M:371:GLU:HB3	3:M:424:PHE:HD1	1.60	0.67
4:S:14:PRO:O	4:S:15:ARG:CG	2.43	0.67
4:S:130:SER:CB	4:S:156:LEU:CD1	2.65	0.67
1:A:102:GLN:CD	4:S:166:LYS:N	2.42	0.67
1:A:186:PHE:CD1	1:A:224:GLU:HB2	2.27	0.67
1:A:186:PHE:CZ	4:S:138:GLY:N	2.29	0.67
1:A:190:LEU:CD1	1:A:228:LYS:HE3	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:318:ARG:O	1:A:322:PHE:HD1	1.76	0.67
1:A:384:LEU:CG	1:A:441:TYR:HE2	2.06	0.67
1:A:446:ASP:O	1:A:448:GLU:O	2.11	0.67
2:B:67:ILE:HD13	2:B:103:LEU:HB2	1.76	0.67
2:B:136:CYS:C	2:B:172:GLU:CB	2.67	0.67
2:B:204:ASP:O	2:B:207:VAL:HB	1.94	0.67
2:B:293:VAL:O	2:B:299:LEU:CG	2.42	0.67
2:B:431:MET:C	2:B:433:VAL:H	2.03	0.67
2:B:481:LYS:C	2:B:483:PRO:HD3	2.18	0.67
2:B:493:LEU:HD21	2:B:511:ILE:HG12	1.74	0.67
3:M:269:ILE:O	3:M:302:TYR:CD1	2.47	0.67
3:M:281:GLY:O	3:M:282:VAL:CB	2.42	0.67
3:M:304:VAL:HG21	3:M:309:GLN:NE2	2.09	0.67
3:M:323:MET:HE3	3:M:342:LEU:CD2	2.20	0.67
4:S:94:SER:O	4:S:98:ILE:HG12	1.94	0.67
1:A:70:ALA:O	1:A:74:LEU:HG	1.94	0.67
1:A:292:TYR:CD1	1:A:292:TYR:O	2.48	0.67
1:A:409:VAL:O	1:A:409:VAL:HG13	1.93	0.67
1:A:572:PHE:O	1:A:575:LYS:HB3	1.93	0.67
1:A:585:PHE:CE2	1:A:603:VAL:CG1	2.77	0.67
2:B:94:ASP:O	2:B:134:LEU:HD21	1.94	0.67
2:B:512:VAL:C	2:B:551:LEU:CD1	2.46	0.67
2:B:515:PHE:O	2:B:516:GLY:C	2.33	0.67
3:M:66:PHE:CB	3:M:77:LEU:CD2	2.64	0.67
3:M:215:TYR:HB2	3:M:468:LYS:N	2.09	0.67
3:M:222:PHE:CA	3:M:479:PHE:CZ	2.76	0.67
1:A:189:PHE:HD2	1:A:225:LEU:CD1	2.06	0.67
1:A:249:ASN:HD21	4:S:146:VAL:HG23	1.58	0.67
1:A:282:MET:O	1:A:284:SER:N	2.28	0.67
1:A:342:GLY:O	1:A:343:LYS:C	2.35	0.67
1:A:429:VAL:HG11	1:A:469:LEU:HD11	1.77	0.67
1:A:465:SER:N	2:B:1:MET:HG2	2.09	0.67
2:B:92:THR:O	2:B:134:LEU:HD13	1.93	0.67
2:B:173:VAL:HB	2:B:199:LEU:HD13	1.75	0.67
2:B:215:TYR:HE2	2:B:229:HIS:ND1	1.90	0.67
2:B:216:LYS:HD3	2:B:251:LEU:HB2	1.77	0.67
3:M:96:ILE:HG23	3:M:125:PHE:CE1	2.30	0.67
3:M:219:LEU:HB3	3:M:472:TYR:O	1.79	0.67
3:M:245:ASP:HA	3:M:297:PHE:O	1.94	0.67
1:A:448:GLU:CB	1:A:487:MET:SD	2.78	0.67
2:B:226:LEU:O	2:B:229:HIS:HB2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:260:LEU:CB	2:B:291:TYR:CZ	2.73	0.67
2:B:309:LEU:CD1	2:B:317:VAL:HG11	2.24	0.67
2:B:380:LYS:NZ	3:M:236:LEU:CD1	2.58	0.67
3:M:253:ASN:HA	3:M:292:PRO:HG2	1.75	0.67
1:A:99:LYS:HZ2	4:S:164:ASP:CB	2.05	0.67
1:A:103:LYS:NZ	1:A:131:ASP:HB2	2.08	0.67
1:A:105:VAL:HG23	4:S:167:ILE:HD12	0.68	0.67
1:A:189:PHE:CB	1:A:225:LEU:HD21	2.24	0.67
1:A:392:MET:SD	1:A:457:LEU:HD21	2.34	0.67
2:B:4:SER:O	2:B:8:ILE:CD1	2.43	0.67
2:B:123:LEU:HB3	2:B:142:LEU:HD11	1.76	0.67
3:M:375:LYS:HG3	3:M:418:GLU:OE1	1.95	0.67
1:A:100:LEU:H	4:S:162:SER:CA	2.00	0.67
1:A:104:ARG:CD	1:A:145:ILE:HG13	2.25	0.67
1:A:140:VAL:CA	1:A:177:ILE:HD11	2.22	0.67
1:A:145:ILE:HD11	4:S:156:LEU:HD13	1.77	0.67
1:A:594:PHE:HB2	2:B:473:ASN:HB2	1.71	0.67
2:B:47:LEU:CG	2:B:66:ILE:HG12	2.25	0.67
2:B:133:GLU:O	2:B:168:MET:HE2	1.95	0.67
3:M:327:PHE:CE1	3:M:336:ASP:CB	2.69	0.67
1:A:125:THR:O	1:A:127:LEU:N	2.27	0.67
1:A:320:HIS:CB	1:A:352:PHE:HE2	2.05	0.67
1:A:401:VAL:HB	1:A:419:ILE:CG1	2.24	0.67
1:A:552:ILE:HD13	1:A:600:SER:CB	2.25	0.67
1:A:625:LEU:CG	2:B:613:MET:SD	2.79	0.67
2:B:175:LEU:CA	2:B:214:ALA:HB2	2.19	0.67
2:B:208:ILE:HG21	2:B:236:ILE:HG21	1.77	0.67
2:B:315:PRO:HA	2:B:318:ILE:HD12	1.76	0.67
3:M:2:TYR:CE1	3:M:64:LYS:NZ	2.57	0.67
3:M:2:TYR:CA	3:M:81:SER:HB2	2.25	0.67
3:M:316:ARG:O	3:M:317:MET:C	2.34	0.67
3:M:356:LEU:C	3:M:356:LEU:HD23	2.19	0.67
1:A:100:LEU:O	1:A:101:GLN:O	2.13	0.67
1:A:264:SER:HB3	1:A:271:ARG:HG2	1.75	0.67
1:A:623:MET:C	2:B:617:LEU:HD21	2.20	0.67
2:B:37:TYR:HD2	2:B:38:TYR:CE1	2.01	0.67
2:B:120:ILE:HD12	2:B:142:LEU:CD2	2.24	0.67
2:B:501:THR:C	2:B:508:ARG:NH2	2.53	0.67
2:B:560:ILE:HG22	2:B:561:ASP:N	2.10	0.67
4:S:53:THR:CB	4:S:69:ASN:CB	2.73	0.67
1:A:109:ALA:O	1:A:112:GLN:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:140:VAL:CG2	1:A:177:ILE:CG1	2.68	0.67
1:A:182:ILE:CG2	1:A:221:VAL:HG23	2.17	0.67
1:A:196:LEU:O	1:A:197:ARG:C	2.31	0.67
1:A:370:LYS:O	1:A:374:LEU:CD1	2.42	0.67
1:A:421:PRO:CG	1:A:424:TYR:CD1	2.76	0.67
1:A:478:ARG:HD3	1:A:514:GLU:OE1	1.95	0.67
1:A:556:VAL:CG2	1:A:603:VAL:CG1	2.73	0.67
1:A:633:PHE:HD2	2:B:550:VAL:C	1.74	0.67
1:A:637:GLU:CB	2:B:551:LEU:HD22	2.25	0.67
2:B:143:SER:HB3	2:B:175:LEU:C	2.18	0.67
2:B:219:TYR:CA	2:B:223:LEU:HD23	2.24	0.67
2:B:340:ILE:CD1	2:B:366:LEU:CB	2.73	0.67
3:M:54:SER:HB2	3:M:66:PHE:CD1	2.30	0.67
3:M:222:PHE:CD2	3:M:439:TYR:CE1	2.82	0.67
3:M:233:LEU:CD2	3:M:323:MET:O	2.42	0.67
3:M:338:PHE:CD2	3:M:415:ILE:CD1	2.78	0.67
1:A:186:PHE:CD2	1:A:187:LYS:N	2.63	0.66
2:B:20:ARG:HD2	2:B:21:GLU:N	2.09	0.66
2:B:80:GLN:CG	2:B:115:LEU:HD21	2.25	0.66
2:B:277:CYS:HA	2:B:292:GLU:CG	2.25	0.66
2:B:303:LEU:HD11	2:B:333:GLN:HE21	1.58	0.66
2:B:347:VAL:HG22	2:B:359:LEU:CB	2.13	0.66
2:B:381:PHE:O	2:B:395:LYS:HD2	1.95	0.66
2:B:537:PHE:CE1	2:B:545:ARG:CG	2.75	0.66
3:M:3:LEU:HD12	3:M:3:LEU:N	2.10	0.66
3:M:24:ALA:O	3:M:25:PRO:C	2.34	0.66
3:M:215:TYR:HB3	3:M:470:ALA:H	1.60	0.66
4:S:9:ASN:HD21	4:S:13:GLN:CB	2.09	0.66
4:S:99:LEU:O	4:S:102:ILE:HB	1.95	0.66
1:A:104:ARG:HG3	1:A:145:ILE:CG2	2.25	0.66
1:A:214:VAL:HG23	4:S:148:ARG:CZ	2.26	0.66
1:A:403:LEU:HD21	1:A:421:PRO:O	1.91	0.66
1:A:557:LYS:HE3	2:B:606:ASP:HB3	1.78	0.66
1:A:605:GLU:OE2	1:A:608:ARG:NH2	2.25	0.66
2:B:13:ASP:OD2	3:M:17:GLN:OE1	2.14	0.66
2:B:63:MET:HE1	2:B:104:TYR:HB2	1.76	0.66
2:B:120:ILE:HD13	2:B:142:LEU:CD2	2.22	0.66
2:B:175:LEU:CD1	2:B:210:CYS:HB3	2.25	0.66
2:B:249:ILE:HG21	2:B:320:SER:HB3	1.76	0.66
2:B:363:ILE:CG2	2:B:398:ILE:CD1	2.73	0.66
2:B:364:HIS:O	2:B:367:SER:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:375:LEU:HD23	2:B:402:LEU:HD22	1.78	0.66
3:M:324:SER:O	3:M:339:GLU:O	2.13	0.66
3:M:340:LEU:N	3:M:411:LEU:O	2.28	0.66
3:M:443:SER:CB	3:M:447:ILE:CG1	2.37	0.66
4:S:14:PRO:O	4:S:15:ARG:HG2	1.95	0.66
1:A:429:VAL:CG1	1:A:469:LEU:CD1	2.69	0.66
1:A:626:SER:C	2:B:617:LEU:CG	2.35	0.66
2:B:343:LEU:CD1	2:B:359:LEU:HD12	2.18	0.66
2:B:363:ILE:HG21	2:B:398:ILE:HD11	1.77	0.66
2:B:534:ILE:HD13	2:B:594:ALA:CB	2.20	0.66
2:B:565:GLN:C	2:B:574:ASN:ND2	2.38	0.66
3:M:410:VAL:CG1	3:M:412:ARG:HH11	2.08	0.66
3:M:437:TYR:CD1	3:M:479:PHE:CZ	2.83	0.66
1:A:103:LYS:O	1:A:107:TYR:HD1	1.74	0.66
1:A:219:VAL:O	4:S:140:MET:SD	2.52	0.66
1:A:244:LEU:CD1	1:A:256:LEU:HD12	2.25	0.66
1:A:625:LEU:HG	2:B:613:MET:SD	2.35	0.66
2:B:77:ILE:O	2:B:79:VAL:CA	2.43	0.66
2:B:124:GLN:HB2	2:B:153:ILE:CG2	2.24	0.66
2:B:127:LEU:HD12	2:B:157:THR:OG1	1.96	0.66
2:B:336:ASN:CG	2:B:338:LYS:HB2	2.21	0.66
2:B:512:VAL:CG1	2:B:548:ILE:HA	2.10	0.66
3:M:396:GLN:HG2	3:M:398:ILE:HD11	1.77	0.66
3:M:469:GLY:C	3:M:470:ALA:O	2.38	0.66
4:S:85:PHE:HE2	4:S:109:LEU:CD2	2.08	0.66
1:A:64:LEU:HB3	1:A:102:GLN:NE2	2.10	0.66
1:A:78:GLU:CD	1:A:113:SER:HB3	2.20	0.66
1:A:183:THR:C	4:S:137:GLN:OE1	2.39	0.66
1:A:370:LYS:HE2	1:A:370:LYS:HA	1.76	0.66
1:A:581:LEU:HB3	1:A:607:LEU:HD13	1.77	0.66
1:A:631:SER:O	2:B:554:LYS:CG	2.35	0.66
2:B:85:ASP:O	2:B:89:ASN:ND2	2.28	0.66
2:B:162:VAL:C	2:B:164:ASP:N	2.53	0.66
2:B:173:VAL:HB	2:B:199:LEU:HD11	1.76	0.66
2:B:174:ALA:HB3	2:B:211:ALA:CB	2.22	0.66
2:B:204:ASP:HB3	2:B:207:VAL:CG2	2.25	0.66
2:B:208:ILE:HG21	2:B:236:ILE:CG2	2.25	0.66
2:B:344:VAL:HG22	2:B:381:PHE:HZ	1.61	0.66
2:B:553:ALA:HA	2:B:614:ILE:HG23	1.78	0.66
3:M:8:THR:HA	3:M:13:LYS:O	1.95	0.66
3:M:220:GLU:HB2	3:M:222:PHE:HE1	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:130:SER:HB2	4:S:156:LEU:HD13	1.76	0.66
1:A:516:ILE:CG1	1:A:551:LEU:HD13	2.26	0.66
1:A:557:LYS:CD	2:B:606:ASP:N	2.56	0.66
1:A:629:LEU:HG	2:B:610:ARG:NH1	2.05	0.66
2:B:90:ILE:CD1	2:B:123:LEU:HD21	2.24	0.66
2:B:139:LEU:CD2	2:B:173:VAL:O	2.32	0.66
2:B:311:TYR:O	2:B:312:SER:C	2.38	0.66
2:B:315:PRO:HG3	2:B:352:ASN:OD1	1.94	0.66
2:B:534:ILE:C	2:B:536:ASN:N	2.53	0.66
3:M:44:ASP:C	3:M:46:SER:N	2.53	0.66
3:M:437:TYR:N	3:M:437:TYR:HD1	1.91	0.66
3:M:478:ASN:O	3:M:479:PHE:C	2.37	0.66
4:S:110:ASP:O	4:S:113:PHE:O	2.14	0.66
1:A:221:VAL:HG23	4:S:142:ILE:HG21	1.77	0.66
1:A:241:TYR:CD2	1:A:242:GLU:N	2.63	0.66
1:A:399:ASP:O	1:A:420:ILE:CB	2.43	0.66
1:A:454:ILE:HG23	1:A:473:ILE:CG2	2.24	0.66
1:A:462:GLN:HE22	2:B:1:MET:HE1	1.60	0.66
2:B:123:LEU:CD2	2:B:138:ALA:O	2.42	0.66
2:B:230:PHE:CD2	2:B:298:ASP:O	2.48	0.66
2:B:232:ARG:CG	2:B:236:ILE:HD11	2.26	0.66
2:B:234:CYS:O	2:B:237:ILE:CG2	2.38	0.66
3:M:51:LEU:N	3:M:51:LEU:HD12	2.10	0.66
3:M:379:LEU:HD23	3:M:397:TRP:HE1	1.58	0.66
1:A:92:LEU:HD11	1:A:120:ILE:CA	2.13	0.66
1:A:401:VAL:CG2	1:A:419:ILE:HB	2.26	0.66
1:A:509:PRO:HB3	1:A:547:VAL:HG21	1.75	0.66
1:A:581:LEU:CD2	1:A:607:LEU:HD11	2.26	0.66
2:B:153:ILE:C	2:B:155:LEU:H	2.03	0.66
2:B:353:GLN:HG2	3:M:48:ASP:CA	2.26	0.66
2:B:403:ILE:HA	2:B:411:ILE:HD12	1.77	0.66
2:B:537:PHE:CG	2:B:598:LEU:CB	2.74	0.66
2:B:556:LEU:CA	2:B:588:ILE:CD1	2.21	0.66
2:B:563:PHE:HE2	2:B:584:SER:CA	2.06	0.66
3:M:259:LYS:O	3:M:449:VAL:HG13	1.96	0.66
4:S:48:SER:HA	4:S:77:TYR:CB	2.25	0.66
4:S:54:PRO:HB2	4:S:57:LEU:CD1	2.26	0.66
4:S:137:GLN:O	4:S:140:MET:HB3	1.96	0.66
1:A:92:LEU:O	1:A:95:MET:N	2.27	0.66
1:A:102:GLN:CA	4:S:166:LYS:HB2	2.26	0.66
1:A:150:LEU:HD22	1:A:162:ILE:CG1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:224:GLU:CD	4:S:138:GLY:O	2.39	0.66
1:A:288:THR:HB	1:A:322:PHE:HZ	1.59	0.66
1:A:318:ARG:O	1:A:322:PHE:CD1	2.49	0.66
1:A:625:LEU:O	1:A:627:GLU:N	2.28	0.66
2:B:162:VAL:C	2:B:164:ASP:H	2.04	0.66
2:B:215:TYR:HD2	2:B:226:LEU:HD13	1.60	0.66
2:B:400:SER:HB3	2:B:439:CYS:SG	2.35	0.66
3:M:215:TYR:HD2	3:M:469:GLY:H	1.29	0.66
3:M:265:ASN:HB3	3:M:309:GLN:HG3	1.77	0.66
1:A:92:LEU:HD22	1:A:123:LEU:HB2	1.78	0.66
1:A:215:VAL:O	1:A:219:VAL:HG23	1.95	0.66
2:B:390:VAL:HG12	2:B:394:TRP:CD1	2.31	0.66
2:B:418:TYR:CD1	2:B:419:VAL:CA	2.79	0.66
2:B:497:LEU:HD21	2:B:533:LEU:HD22	1.77	0.66
2:B:592:TYR:CE2	2:B:618:PHE:HD2	2.13	0.66
3:M:2:TYR:H	3:M:81:SER:CB	2.03	0.66
3:M:100:LEU:CD1	3:M:100:LEU:H	2.09	0.66
3:M:118:TYR:C	3:M:118:TYR:CD2	2.73	0.66
3:M:258:VAL:HG13	3:M:452:ILE:HG13	1.77	0.66
3:M:272:LEU:HD21	3:M:288:ILE:HD13	1.76	0.66
3:M:435:LEU:O	3:M:479:PHE:CE2	2.49	0.66
3:M:461:GLY:C	3:M:462:LYS:O	2.23	0.66
4:S:57:LEU:N	4:S:57:LEU:HD12	2.11	0.66
1:A:323:CYS:CB	1:A:355:LEU:HD21	2.26	0.65
2:B:123:LEU:HD13	2:B:142:LEU:HG	0.67	0.65
2:B:530:LEU:HD23	2:B:591:MET:HB2	1.78	0.65
3:M:360:LEU:HD13	3:M:433:VAL:CG2	2.26	0.65
1:A:520:GLY:HA2	1:A:558:VAL:CG2	2.23	0.65
2:B:67:ILE:HD11	2:B:100:LEU:O	1.95	0.65
2:B:103:LEU:CD1	3:M:132:GLY:HA3	2.24	0.65
2:B:120:ILE:HD11	2:B:150:LEU:HD13	1.77	0.65
2:B:336:ASN:HB3	2:B:339:PHE:CD1	2.32	0.65
3:M:2:TYR:CE2	3:M:62:VAL:HG13	2.31	0.65
3:M:302:TYR:HE2	3:M:304:VAL:HB	1.61	0.65
3:M:437:TYR:CE1	3:M:479:PHE:CE1	2.85	0.65
1:A:225:LEU:HB2	1:A:233:PHE:CZ	2.31	0.65
1:A:253:ILE:HG21	1:A:281:LEU:HB3	1.76	0.65
1:A:264:SER:HB2	1:A:271:ARG:CG	2.24	0.65
1:A:557:LYS:O	2:B:605:PHE:CE2	2.45	0.65
1:A:557:LYS:HG2	2:B:606:ASP:HA	1.76	0.65
1:A:609:LEU:O	1:A:612:GLU:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:208:ILE:CG1	2:B:236:ILE:HD13	2.19	0.65
2:B:212:VAL:CG1	2:B:248:LEU:HD23	2.26	0.65
2:B:252:LEU:HD13	2:B:302:PHE:CG	2.14	0.65
2:B:331:PRO:HB3	2:B:369:LEU:CD1	2.27	0.65
2:B:346:THR:O	2:B:349:MET:N	2.29	0.65
2:B:447:GLU:OE1	2:B:485:LYS:CG	2.41	0.65
2:B:472:VAL:O	2:B:473:ASN:C	2.33	0.65
2:B:549:LEU:HD22	2:B:607:ILE:O	1.96	0.65
2:B:563:PHE:O	2:B:566:ALA:C	2.38	0.65
3:M:55:MET:O	3:M:57:GLY:N	2.30	0.65
3:M:229:LYS:HG2	3:M:230:LYS:HG3	1.79	0.65
3:M:379:LEU:HD12	3:M:379:LEU:N	2.10	0.65
4:S:108:SER:CB	4:S:149:ILE:CG2	2.73	0.65
1:A:132:LEU:CD2	1:A:169:MET:CG	2.62	0.65
1:A:170:LEU:HB3	1:A:206:LYS:HG3	1.77	0.65
1:A:557:LYS:CG	2:B:606:ASP:HB2	2.25	0.65
2:B:77:ILE:C	2:B:79:VAL:N	2.48	0.65
2:B:223:LEU:HD11	2:B:259:TYR:N	1.90	0.65
2:B:340:ILE:HD13	2:B:366:LEU:CD1	2.18	0.65
2:B:438:ARG:HA	2:B:441:GLN:NE2	2.11	0.65
3:M:214:LEU:CD1	3:M:256:VAL:CG2	2.74	0.65
3:M:241:HIS:HD2	3:M:475:GLN:H	1.42	0.65
3:M:340:LEU:CB	3:M:411:LEU:HG	2.14	0.65
4:S:24:ASP:OD2	4:S:27:LYS:HD2	1.96	0.65
1:A:128:LEU:HD13	1:A:150:LEU:HD21	1.22	0.65
1:A:189:PHE:HB2	1:A:225:LEU:CD2	2.26	0.65
1:A:485:PRO:O	1:A:488:ARG:CG	2.43	0.65
1:A:638:LEU:O	2:B:486:HIS:CE1	2.50	0.65
2:B:90:ILE:CG1	2:B:98:LYS:HD3	2.27	0.65
2:B:274:PRO:N	2:B:295:ASN:ND2	2.44	0.65
2:B:380:LYS:HZ3	3:M:236:LEU:HD11	1.61	0.65
2:B:451:MET:HE2	2:B:489:ILE:CG1	2.27	0.65
3:M:66:PHE:CB	3:M:77:LEU:HD21	2.03	0.65
3:M:242:GLY:HA3	3:M:444:ALA:CB	2.25	0.65
1:A:67:LYS:CB	4:S:166:LYS:HA	2.27	0.65
1:A:78:GLU:O	1:A:80:TYR:O	2.13	0.65
1:A:88:ASN:HB2	1:A:120:ILE:HD12	1.73	0.65
1:A:105:VAL:HG23	4:S:167:ILE:CB	2.26	0.65
1:A:186:PHE:CD2	1:A:186:PHE:C	2.75	0.65
1:A:211:ASP:OD2	4:S:148:ARG:CD	2.43	0.65
1:A:416:ILE:HG22	1:A:417:PRO:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:420:ILE:HG23	1:A:421:PRO:HD2	1.77	0.65
1:A:638:LEU:O	2:B:518:ILE:CD1	2.44	0.65
2:B:5:ILE:CA	2:B:8:ILE:HD12	2.26	0.65
2:B:67:ILE:HD13	2:B:103:LEU:HB3	1.77	0.65
2:B:178:ILE:CG2	2:B:214:ALA:HA	2.24	0.65
2:B:195:ILE:C	2:B:197:LYS:H	2.03	0.65
2:B:276:SER:C	2:B:289:PRO:HG2	2.14	0.65
2:B:479:VAL:HG21	2:B:486:HIS:NE2	2.11	0.65
2:B:490:ILE:CG1	2:B:518:ILE:HG21	2.23	0.65
3:M:364:VAL:C	3:M:367:ALA:O	2.39	0.65
4:S:105:PHE:HZ	4:S:128:LEU:CD1	2.08	0.65
1:A:530:ASN:OD1	1:A:577:VAL:HG21	1.96	0.65
2:B:70:MET:CE	2:B:107:ARG:HG3	2.23	0.65
2:B:177:ILE:HG22	2:B:196:LEU:HD11	1.79	0.65
2:B:277:CYS:HA	2:B:292:GLU:HA	1.77	0.65
2:B:278:PRO:C	2:B:288:TYR:HB3	2.19	0.65
2:B:351:GLU:O	3:M:48:ASP:CB	2.42	0.65
2:B:430:ILE:HG23	2:B:470:ALA:HB2	1.78	0.65
2:B:559:ASP:C	2:B:563:PHE:H	2.05	0.65
3:M:5:PHE:HB2	3:M:125:PHE:CE2	2.31	0.65
3:M:216:VAL:O	3:M:216:VAL:HG23	1.96	0.65
3:M:222:PHE:CE1	3:M:240:ILE:HG21	2.32	0.65
3:M:327:PHE:CE1	3:M:336:ASP:OD2	2.49	0.65
3:M:433:VAL:HG13	3:M:433:VAL:O	1.97	0.65
2:B:178:ILE:CG2	2:B:179:LYS:N	2.51	0.65
2:B:178:ILE:C	2:B:180:LEU:N	2.45	0.65
2:B:351:GLU:CD	2:B:351:GLU:H	2.04	0.65
2:B:435:SER:O	2:B:438:ARG:N	2.19	0.65
3:M:235:LEU:HD23	3:M:235:LEU:C	2.22	0.65
1:A:220:SER:HB2	4:S:142:ILE:HA	1.79	0.65
1:A:291:ILE:N	1:A:291:ILE:HD12	2.12	0.65
1:A:364:ASP:HB3	1:A:367:ILE:HD12	1.79	0.65
1:A:384:LEU:HD21	1:A:441:TYR:CE2	2.28	0.65
1:A:570:LYS:O	1:A:571:ARG:HB2	1.97	0.65
2:B:37:TYR:HH	2:B:46:GLN:HE21	0.83	0.65
2:B:123:LEU:HD22	2:B:138:ALA:CA	2.27	0.65
2:B:158:VAL:HG13	2:B:177:ILE:CD1	2.19	0.65
2:B:196:LEU:HB3	2:B:229:HIS:ND1	2.10	0.65
2:B:275:ARG:N	2:B:295:ASN:CG	2.54	0.65
2:B:567:GLN:HG2	2:B:569:THR:OG1	1.97	0.65
3:M:54:SER:HB2	3:M:66:PHE:HD1	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:101:LEU:HG	3:M:106:LYS:CG	2.26	0.65
3:M:271:SER:HB3	3:M:301:GLU:HG3	1.79	0.65
3:M:319:SER:HB2	3:M:347:PHE:N	2.11	0.65
1:A:104:ARG:NE	4:S:160:ALA:HB2	2.11	0.65
2:B:50:LEU:HB3	2:B:62:ALA:CB	2.23	0.65
2:B:50:LEU:CG	2:B:62:ALA:HB2	2.27	0.65
2:B:176:ALA:C	2:B:178:ILE:H	2.04	0.65
2:B:350:THR:CB	2:B:352:ASN:HD21	2.10	0.65
2:B:435:SER:C	2:B:437:SER:N	2.53	0.65
3:M:224:VAL:HB	3:M:226:PHE:CE1	2.32	0.65
3:M:244:VAL:HG13	3:M:472:TYR:HE2	1.50	0.65
1:A:185:LEU:HB3	1:A:189:PHE:CE2	2.32	0.64
1:A:212:ILE:CD1	4:S:145:ASN:CG	2.62	0.64
1:A:638:LEU:HD13	2:B:515:PHE:O	1.98	0.64
2:B:73:ASP:OD1	2:B:111:ASN:ND2	2.28	0.64
2:B:157:THR:O	2:B:159:LYS:N	2.30	0.64
2:B:227:HIS:CE1	2:B:292:GLU:HG2	2.32	0.64
2:B:306:LEU:HB3	2:B:321:CYS:HB3	1.78	0.64
2:B:578:PRO:HB3	2:B:579:PRO:HD3	1.80	0.64
3:M:371:GLU:O	3:M:419:ASN:OD1	2.14	0.64
4:S:3:HIS:NE2	4:S:90:ASP:OD2	2.30	0.64
1:A:145:ILE:HD13	4:S:156:LEU:HD22	1.78	0.64
1:A:150:LEU:HD22	1:A:158:LEU:HD11	1.79	0.64
1:A:251:TRP:HH2	4:S:103:GLN:CD	2.03	0.64
2:B:212:VAL:HG23	2:B:233:TYR:CE2	2.33	0.64
2:B:344:VAL:HG22	2:B:381:PHE:CZ	2.32	0.64
2:B:435:SER:C	2:B:437:SER:H	2.04	0.64
2:B:502:SER:O	2:B:503:LEU:C	2.35	0.64
2:B:519:ALA:HB1	2:B:555:LEU:HD12	1.80	0.64
2:B:549:LEU:CG	2:B:614:ILE:HD12	2.27	0.64
3:M:3:LEU:HA	3:M:80:THR:HA	1.79	0.64
1:A:139:ASP:C	1:A:177:ILE:CD1	2.69	0.64
1:A:182:ILE:C	1:A:221:VAL:CG2	2.67	0.64
1:A:323:CYS:SG	1:A:338:PHE:CE1	2.74	0.64
1:A:630:PRO:C	2:B:554:LYS:HA	2.22	0.64
2:B:90:ILE:HD11	2:B:123:LEU:CD2	2.27	0.64
2:B:146:LYS:C	2:B:147:MET:HG2	2.23	0.64
2:B:271:GLU:C	2:B:273:SER:N	2.44	0.64
2:B:344:VAL:CG2	2:B:363:ILE:CD1	2.74	0.64
2:B:394:TRP:CZ3	2:B:397:GLN:CD	2.75	0.64
2:B:396:ILE:HG21	2:B:432:ALA:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:513:TRP:CG	2:B:551:LEU:CD2	2.76	0.64
2:B:542:PRO:CA	2:B:602:ASP:CG	2.60	0.64
3:M:255:LEU:O	3:M:454:ILE:HG13	1.97	0.64
3:M:256:VAL:HG12	3:M:290:PHE:CB	2.23	0.64
3:M:352:GLN:HB3	3:M:403:THR:O	1.97	0.64
4:S:69:ASN:ND2	4:S:71:GLU:O	2.31	0.64
1:A:275:LEU:HD12	1:A:308:ASP:CG	2.22	0.64
1:A:552:ILE:O	1:A:556:VAL:HG23	1.97	0.64
1:A:585:PHE:CD2	1:A:603:VAL:HG12	2.32	0.64
1:A:634:ASN:ND2	2:B:554:LYS:N	2.37	0.64
2:B:105:LEU:CA	2:B:145:MET:HE1	2.27	0.64
2:B:158:VAL:CG2	2:B:177:ILE:HG13	2.27	0.64
2:B:275:ARG:HB3	2:B:294:VAL:CG1	2.19	0.64
3:M:49:ASP:HA	3:M:75:TRP:CZ3	2.32	0.64
3:M:250:LEU:HD13	3:M:254:PRO:CG	2.27	0.64
3:M:350:VAL:CG1	3:M:442:GLN:HB2	2.26	0.64
1:A:67:LYS:HB2	4:S:166:LYS:N	2.11	0.64
1:A:96:SER:HB2	1:A:127:LEU:CD1	2.08	0.64
1:A:239:LEU:O	1:A:242:GLU:O	2.14	0.64
2:B:20:ARG:HH11	2:B:21:GLU:HG2	1.57	0.64
2:B:79:VAL:HG21	2:B:108:PHE:CZ	2.33	0.64
2:B:123:LEU:CD2	2:B:138:ALA:HB1	2.27	0.64
2:B:157:THR:C	2:B:159:LYS:N	2.51	0.64
2:B:316:THR:CG2	3:M:90:PHE:HE2	1.75	0.64
2:B:346:THR:HG22	2:B:350:THR:HG21	1.78	0.64
3:M:74:TYR:OH	3:M:97:ASP:HB3	1.98	0.64
3:M:214:LEU:O	3:M:214:LEU:HD23	1.97	0.64
3:M:257:ALA:HB2	3:M:455:VAL:CG2	2.28	0.64
4:S:8:PHE:HE2	4:S:86:THR:OG1	1.81	0.64
1:A:91:ILE:HG21	1:A:110:ALA:HB2	1.80	0.64
1:A:103:LYS:O	1:A:104:ARG:C	2.38	0.64
1:A:134:TYR:O	1:A:135:ASP:C	2.36	0.64
1:A:156:PRO:O	1:A:157:SER:C	2.30	0.64
1:A:213:SER:C	4:S:143:GLU:CG	2.67	0.64
1:A:392:MET:HE2	1:A:460:LEU:HD12	1.79	0.64
2:B:87:VAL:HG13	2:B:122:SER:HG	1.57	0.64
2:B:182:ARG:HD2	2:B:217:GLU:CD	2.22	0.64
2:B:266:VAL:HA	2:B:289:PRO:HB2	1.79	0.64
2:B:559:ASP:HB3	2:B:563:PHE:CG	2.33	0.64
3:M:60:LEU:HD23	3:M:60:LEU:C	2.22	0.64
3:M:96:ILE:CG2	3:M:125:PHE:CE1	2.81	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:260:LEU:HD22	3:M:449:VAL:CG2	2.24	0.64
3:M:378:ILE:C	3:M:413:GLY:HA3	2.13	0.64
1:A:68:THR:OG1	4:S:165:SER:C	2.38	0.64
1:A:119:ASP:O	1:A:123:LEU:HG	1.97	0.64
1:A:513:ARG:HB3	1:A:550:VAL:HG11	1.78	0.64
1:A:575:LYS:HG3	1:A:611:LEU:HG	1.77	0.64
1:A:584:PHE:C	1:A:587:ASN:H	2.02	0.64
2:B:29:LYS:HD3	2:B:30:LEU:H	1.62	0.64
2:B:219:TYR:HD1	2:B:226:LEU:CD2	1.83	0.64
2:B:306:LEU:HD12	2:B:325:LEU:CD2	2.28	0.64
3:M:217:ASP:CB	3:M:471:LYS:HA	2.27	0.64
1:A:255:ARG:O	1:A:257:LEU:N	2.31	0.64
1:A:405:THR:OG1	1:A:406:GLY:N	2.27	0.64
1:A:557:LYS:HG2	2:B:606:ASP:CA	2.28	0.64
1:A:581:LEU:HD23	1:A:607:LEU:HD22	1.80	0.64
1:A:631:SER:HB3	2:B:557:SER:HB2	1.74	0.64
2:B:132:SER:HB2	2:B:166:SER:CB	2.27	0.64
2:B:396:ILE:HD11	2:B:418:TYR:OH	1.92	0.64
2:B:613:MET:CE	2:B:617:LEU:HD11	2.25	0.64
3:M:214:LEU:O	3:M:467:TYR:CB	2.44	0.64
3:M:228:LYS:HZ1	3:M:326:HIS:HA	1.61	0.64
3:M:356:LEU:HD21	3:M:358:ILE:CG1	2.27	0.64
1:A:125:THR:C	1:A:127:LEU:H	2.04	0.64
1:A:436:CYS:SG	1:A:450:TYR:CE2	2.87	0.64
1:A:609:LEU:CD2	1:A:628:VAL:CB	2.76	0.64
2:B:79:VAL:HB	2:B:108:PHE:CD1	2.33	0.64
2:B:178:ILE:CB	2:B:214:ALA:C	2.71	0.64
2:B:277:CYS:HA	2:B:292:GLU:CB	2.26	0.64
2:B:508:ARG:O	2:B:509:ALA:O	2.16	0.64
2:B:534:ILE:HD11	2:B:595:VAL:HG23	1.80	0.64
2:B:566:ALA:O	2:B:574:ASN:HB3	1.78	0.64
3:M:16:PHE:HE2	3:M:125:PHE:CE2	2.16	0.64
3:M:316:ARG:O	3:M:318:ASN:OD1	2.15	0.64
4:S:53:THR:CG2	4:S:69:ASN:N	2.61	0.64
4:S:157:ASN:O	4:S:161:GLU:HG3	1.97	0.64
1:A:63:ASP:C	4:S:165:SER:HG	2.04	0.64
1:A:67:LYS:HB3	4:S:166:LYS:CA	2.28	0.64
1:A:219:VAL:CG2	1:A:256:LEU:CD2	2.69	0.64
1:A:621:LEU:HD13	1:A:621:LEU:C	2.23	0.64
2:B:2:VAL:CG1	2:B:6:HIS:CD2	2.61	0.64
2:B:8:ILE:O	2:B:12:LEU:CD1	2.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:47:LEU:CB	2:B:66:ILE:HG12	2.28	0.64
2:B:50:LEU:HD23	2:B:62:ALA:N	2.13	0.64
2:B:136:CYS:O	2:B:172:GLU:CB	2.45	0.64
2:B:309:LEU:CG	2:B:317:VAL:HG11	2.27	0.64
3:M:316:ARG:HG3	3:M:322:LEU:HD13	1.80	0.64
3:M:375:LYS:HE3	3:M:418:GLU:OE1	1.97	0.64
4:S:8:PHE:CE2	4:S:86:THR:OG1	2.50	0.64
1:A:105:VAL:CG2	4:S:167:ILE:HA	2.28	0.63
1:A:255:ARG:C	1:A:257:LEU:N	2.56	0.63
1:A:376:GLU:H	1:A:376:GLU:CD	2.03	0.63
1:A:484:VAL:O	1:A:486:SER:O	2.16	0.63
1:A:598:GLU:O	1:A:602:GLU:HG3	1.99	0.63
2:B:37:TYR:C	2:B:39:SER:N	2.55	0.63
2:B:120:ILE:C	2:B:153:ILE:HG21	2.23	0.63
2:B:275:ARG:NE	2:B:275:ARG:HA	2.13	0.63
2:B:334:MET:C	2:B:336:ASN:H	2.06	0.63
2:B:449:HIS:O	2:B:453:TRP:CD1	2.51	0.63
2:B:520:SER:O	2:B:523:PHE:HE2	1.81	0.63
3:M:45:SER:HA	3:M:47:SER:N	2.07	0.63
3:M:100:LEU:HD13	3:M:100:LEU:N	2.13	0.63
1:A:121:LEU:CD1	1:A:155:THR:CG2	2.77	0.63
1:A:451:ASN:OD1	1:A:480:LEU:HD12	1.98	0.63
1:A:483:LYS:C	1:A:484:VAL:HG23	2.23	0.63
2:B:63:MET:HA	2:B:66:ILE:HD12	1.78	0.63
2:B:83:PHE:HZ	2:B:119:SER:HB2	1.53	0.63
2:B:98:LYS:HB2	2:B:134:LEU:HD22	1.78	0.63
2:B:215:TYR:CD2	2:B:226:LEU:HD13	2.31	0.63
2:B:487:LEU:HD21	2:B:522:GLU:CB	2.25	0.63
2:B:545:ARG:HD2	2:B:602:ASP:HB2	1.79	0.63
2:B:592:TYR:C	2:B:592:TYR:CD1	2.76	0.63
3:M:100:LEU:H	3:M:100:LEU:HD13	1.61	0.63
3:M:241:HIS:CB	3:M:476:THR:HG23	2.29	0.63
1:A:103:LYS:HZ2	1:A:131:ASP:HB2	1.63	0.63
1:A:140:VAL:O	1:A:141:VAL:C	2.34	0.63
1:A:322:PHE:HB3	1:A:330:LEU:HD21	1.79	0.63
2:B:167:ALA:O	2:B:207:VAL:HG11	1.99	0.63
2:B:245:GLN:NE2	2:B:309:LEU:HD13	2.14	0.63
2:B:287:GLU:O	2:B:288:TYR:CD2	2.50	0.63
2:B:364:HIS:CE1	2:B:397:GLN:HB3	2.33	0.63
1:A:224:GLU:O	1:A:225:LEU:C	2.38	0.63
2:B:36:THR:O	2:B:40:GLN:CB	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:10:THR:HA	3:M:75:TRP:HE1	1.62	0.63
3:M:96:ILE:CG2	3:M:125:PHE:CZ	2.81	0.63
3:M:258:VAL:CA	3:M:452:ILE:HG13	2.28	0.63
3:M:265:ASN:HB3	3:M:309:GLN:CG	2.29	0.63
3:M:320:ILE:HG13	3:M:347:PHE:HD1	1.59	0.63
1:A:104:ARG:HG2	4:S:126:GLN:OE1	1.97	0.63
1:A:139:ASP:OD1	1:A:177:ILE:HD11	1.98	0.63
1:A:156:PRO:O	1:A:160:ARG:HG3	1.98	0.63
1:A:175:PRO:HA	1:A:214:VAL:CG2	2.29	0.63
2:B:178:ILE:HG22	2:B:217:GLU:HB2	1.74	0.63
2:B:243:TRP:CZ3	3:M:91:THR:CA	2.75	0.63
2:B:274:PRO:CG	2:B:295:ASN:HD21	2.05	0.63
2:B:278:PRO:HB3	2:B:288:TYR:C	2.16	0.63
2:B:319:LEU:O	2:B:322:CYS:N	2.31	0.63
2:B:360:LEU:HD11	2:B:391:ALA:HB1	1.81	0.63
2:B:475:ILE:CG2	2:B:514:LEU:CD2	2.76	0.63
2:B:534:ILE:O	2:B:535:GLN:C	2.38	0.63
3:M:125:PHE:O	3:M:129:VAL:HG21	1.93	0.63
3:M:347:PHE:CE2	3:M:350:VAL:HB	2.34	0.63
1:A:68:THR:HA	4:S:167:ILE:CA	2.28	0.63
1:A:185:LEU:O	1:A:189:PHE:CG	2.51	0.63
1:A:571:ARG:NH2	1:A:573:GLU:OE1	2.30	0.63
2:B:90:ILE:HD11	2:B:123:LEU:HD21	1.80	0.63
2:B:334:MET:HB2	2:B:369:LEU:CD2	2.27	0.63
2:B:396:ILE:HD11	2:B:418:TYR:CE2	2.25	0.63
2:B:526:CYS:N	2:B:527:PRO:HD3	2.14	0.63
3:M:354:ASP:CB	3:M:440:ILE:HD12	2.28	0.63
3:M:360:LEU:HD13	3:M:433:VAL:CB	2.27	0.63
4:S:6:LEU:CD2	4:S:32:LEU:HD22	2.24	0.63
1:A:141:VAL:HG12	4:S:159:ALA:HB3	0.73	0.63
1:A:179:LYS:CD	4:S:143:GLU:CG	2.74	0.63
1:A:313:MET:HA	1:A:348:PHE:CZ	2.33	0.63
1:A:563:CYS:SG	1:A:621:LEU:HD11	2.39	0.63
1:A:575:LYS:HE3	1:A:611:LEU:HD21	1.80	0.63
1:A:581:LEU:CD2	1:A:607:LEU:CD1	2.77	0.63
2:B:362:ALA:O	2:B:366:LEU:HG	1.99	0.63
2:B:501:THR:C	2:B:508:ARG:HH21	2.06	0.63
2:B:592:TYR:CE2	2:B:619:ASP:OD1	2.52	0.63
3:M:10:THR:HG23	3:M:11:LYS:N	2.13	0.63
3:M:215:TYR:CD2	3:M:470:ALA:N	2.64	0.63
1:A:96:SER:H	4:S:166:LYS:NZ	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:141:VAL:HG11	4:S:159:ALA:N	2.12	0.63
1:A:178:ARG:HB2	1:A:214:VAL:HG22	1.78	0.63
1:A:253:ILE:CD1	1:A:281:LEU:CD2	2.70	0.63
1:A:369:SER:HB2	1:A:424:TYR:CE2	2.32	0.63
1:A:566:PHE:HZ	1:A:618:THR:O	1.82	0.63
1:A:600:SER:C	1:A:602:GLU:N	2.56	0.63
1:A:607:LEU:O	1:A:609:LEU:N	2.32	0.63
2:B:268:LYS:CA	2:B:276:SER:HB2	2.29	0.63
2:B:293:VAL:O	2:B:299:LEU:HG	1.99	0.63
2:B:299:LEU:C	2:B:299:LEU:HD13	2.24	0.63
2:B:452:LYS:NZ	2:B:456:ASP:CG	2.55	0.63
3:M:306:LEU:CD2	3:M:317:MET:CE	2.77	0.63
4:S:7:ILE:CD1	4:S:16:LEU:HD23	2.28	0.63
4:S:20:TYR:HD2	4:S:21:THR:HG23	1.62	0.63
4:S:80:TYR:HB2	4:S:106:VAL:HG11	1.80	0.63
1:A:96:SER:N	4:S:166:LYS:HZ1	1.97	0.63
1:A:100:LEU:N	4:S:162:SER:CB	2.04	0.63
1:A:225:LEU:HB2	1:A:233:PHE:CE1	2.33	0.63
1:A:563:CYS:SG	1:A:621:LEU:HD12	2.37	0.63
1:A:581:LEU:HD23	1:A:607:LEU:HD11	1.81	0.63
2:B:4:SER:O	2:B:8:ILE:HD12	1.99	0.63
2:B:518:ILE:O	2:B:518:ILE:CD1	2.47	0.63
2:B:545:ARG:HD2	2:B:602:ASP:CB	2.28	0.63
3:M:99:ILE:CD1	3:M:99:ILE:H	2.12	0.63
3:M:245:ASP:N	3:M:472:TYR:CZ	2.66	0.63
3:M:377:LYS:HE3	3:M:416:GLU:CB	2.28	0.63
3:M:437:TYR:HD1	3:M:479:PHE:CZ	2.17	0.63
1:A:144:GLY:HA2	1:A:180:LYS:HB3	1.78	0.62
1:A:402:ILE:C	1:A:404:GLN:N	2.56	0.62
2:B:29:LYS:O	2:B:30:LEU:C	2.40	0.62
2:B:90:ILE:HD11	2:B:102:HIS:NE2	2.14	0.62
2:B:154:ILE:CD1	2:B:180:LEU:CG	2.77	0.62
2:B:154:ILE:O	2:B:158:VAL:HG23	1.98	0.62
2:B:334:MET:HE2	2:B:339:PHE:CD1	2.33	0.62
2:B:353:GLN:HG3	3:M:47:SER:CB	2.29	0.62
2:B:353:GLN:CG	3:M:47:SER:HB2	2.29	0.62
3:M:320:ILE:HG22	3:M:321:GLY:N	2.14	0.62
4:S:8:PHE:CG	4:S:36:TYR:CE2	2.83	0.62
4:S:47:GLN:HE22	4:S:78:LYS:CA	2.11	0.62
1:A:100:LEU:CA	4:S:162:SER:HB2	2.22	0.62
1:A:117:ASP:OD2	1:A:120:ILE:HG12	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:LYS:H	4:S:159:ALA:HB2	1.53	0.62
1:A:237:SER:CB	1:A:270:LEU:HD13	2.23	0.62
2:B:512:VAL:HG12	2:B:551:LEU:HB2	1.82	0.62
2:B:567:GLN:CA	2:B:569:THR:OG1	2.47	0.62
3:M:66:PHE:CE2	3:M:77:LEU:O	2.53	0.62
3:M:104:PHE:HE1	3:M:113:LYS:HE2	0.77	0.62
3:M:272:LEU:CD2	3:M:288:ILE:HD13	2.30	0.62
1:A:80:TYR:CD1	1:A:82:PHE:CE2	2.88	0.62
1:A:180:LYS:HE3	4:S:156:LEU:HD11	1.81	0.62
1:A:240:LEU:O	1:A:242:GLU:O	2.18	0.62
1:A:634:ASN:OD1	2:B:553:ALA:C	2.41	0.62
2:B:87:VAL:O	2:B:88:LYS:C	2.39	0.62
2:B:157:THR:O	2:B:160:LYS:N	2.32	0.62
2:B:182:ARG:HD2	2:B:217:GLU:CG	2.29	0.62
2:B:307:ASN:OD1	2:B:339:PHE:HE2	1.77	0.62
2:B:416:LYS:HD2	2:B:453:TRP:CD2	2.34	0.62
2:B:500:GLN:O	2:B:508:ARG:NH2	2.32	0.62
3:M:4:SER:OG	3:M:6:TYR:CZ	2.51	0.62
3:M:10:THR:CA	3:M:75:TRP:NE1	2.62	0.62
1:A:76:TYR:OH	4:S:125:TRP:CZ3	2.39	0.62
1:A:101:GLN:N	4:S:162:SER:H	1.96	0.62
1:A:176:TYR:CG	4:S:155:GLU:HG2	2.34	0.62
1:A:212:ILE:HB	4:S:145:ASN:HD22	1.63	0.62
1:A:255:ARG:HH21	4:S:135:ILE:CG2	1.99	0.62
1:A:513:ARG:CG	1:A:550:VAL:HG21	2.29	0.62
2:B:42:ILE:C	2:B:46:GLN:OE1	2.43	0.62
2:B:136:CYS:CA	2:B:172:GLU:HB2	2.28	0.62
3:M:2:TYR:C	3:M:3:LEU:HD12	2.24	0.62
3:M:242:GLY:CA	3:M:444:ALA:CB	2.77	0.62
4:S:48:SER:HA	4:S:77:TYR:HB3	1.81	0.62
4:S:53:THR:HG1	4:S:68:VAL:C	1.98	0.62
4:S:164:ASP:HA	4:S:167:ILE:HB	1.79	0.62
1:A:141:VAL:CB	4:S:159:ALA:HB2	2.29	0.62
1:A:637:GLU:HG3	2:B:515:PHE:C	2.24	0.62
2:B:135:ARG:NH2	2:B:164:ASP:CB	2.62	0.62
2:B:196:LEU:O	2:B:199:LEU:HB2	1.99	0.62
2:B:196:LEU:CB	2:B:229:HIS:HD1	2.13	0.62
2:B:316:THR:HG23	3:M:90:PHE:CE2	2.31	0.62
2:B:319:LEU:CD1	2:B:358:MET:SD	2.78	0.62
2:B:472:VAL:HG11	2:B:510:GLY:HA2	1.68	0.62
3:M:407:THR:O	3:M:409:PRO:HD3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:PRO:O	1:A:214:VAL:HG22	2.00	0.62
3:M:223:HIS:HB3	3:M:478:ASN:C	2.24	0.62
3:M:224:VAL:CA	3:M:479:PHE:HA	2.29	0.62
4:S:85:PHE:CE1	4:S:106:VAL:HG22	2.34	0.62
1:A:80:TYR:HB3	1:A:82:PHE:CZ	2.34	0.62
1:A:97:SER:H	4:S:166:LYS:HZ1	1.48	0.62
1:A:99:LYS:HZ2	4:S:164:ASP:HB3	1.65	0.62
1:A:212:ILE:HB	1:A:247:ILE:HD13	1.78	0.62
1:A:480:LEU:O	1:A:483:LYS:O	2.18	0.62
1:A:485:PRO:C	1:A:486:SER:O	2.39	0.62
2:B:106:LEU:CD2	2:B:144:ASP:CB	2.76	0.62
2:B:177:ILE:HG21	2:B:196:LEU:HD11	1.79	0.62
2:B:309:LEU:CG	2:B:317:VAL:CG1	2.77	0.62
2:B:511:ILE:O	2:B:515:PHE:HD1	1.83	0.62
2:B:588:ILE:HG23	2:B:618:PHE:CE1	2.34	0.62
3:M:216:VAL:HG11	3:M:452:ILE:HG12	1.81	0.62
3:M:225:VAL:HA	3:M:480:GLN:H	1.65	0.62
3:M:362:PHE:O	3:M:364:VAL:HG13	2.00	0.62
4:S:75:ILE:CG2	4:S:86:THR:HG23	2.26	0.62
1:A:101:GLN:O	1:A:104:ARG:N	2.29	0.62
1:A:121:LEU:HD23	1:A:121:LEU:C	2.24	0.62
1:A:589:SER:O	1:A:597:GLN:NE2	2.32	0.62
2:B:47:LEU:HD13	2:B:66:ILE:HA	1.81	0.62
2:B:472:VAL:HG13	2:B:510:GLY:C	2.24	0.62
2:B:486:HIS:HA	2:B:489:ILE:HD12	1.82	0.62
3:M:323:MET:HE1	3:M:342:LEU:HB3	1.82	0.62
1:A:67:LYS:HB3	4:S:166:LYS:CG	2.29	0.62
1:A:91:ILE:CG2	1:A:110:ALA:HB2	2.30	0.62
1:A:182:ILE:CG2	1:A:218:ALA:HA	2.29	0.62
1:A:341:ILE:O	1:A:344:ILE:HB	1.99	0.62
1:A:408:ILE:CG2	4:S:64:ASN:O	2.34	0.62
2:B:155:LEU:C	2:B:157:THR:N	2.55	0.62
2:B:360:LEU:HD13	2:B:391:ALA:O	2.00	0.62
2:B:476:ARG:CA	2:B:514:LEU:HD13	2.30	0.62
3:M:222:PHE:CB	3:M:479:PHE:CE1	2.82	0.62
3:M:320:ILE:HG21	3:M:439:TYR:CZ	2.35	0.62
4:S:32:LEU:O	4:S:36:TYR:CD1	2.53	0.62
4:S:47:GLN:OE1	4:S:79:ASN:CA	2.42	0.62
1:A:80:TYR:HB3	1:A:82:PHE:CE2	2.33	0.62
1:A:326:GLN:CA	1:A:331:ARG:HH21	2.11	0.62
1:A:556:VAL:CG2	1:A:603:VAL:HG11	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:545:ARG:HD3	2:B:602:ASP:CB	2.17	0.62
2:B:545:ARG:NH1	2:B:602:ASP:HA	2.14	0.62
3:M:1:MET:CA	3:M:81:SER:OG	2.48	0.62
3:M:215:TYR:CD1	3:M:468:LYS:HG2	2.35	0.62
3:M:223:HIS:CD2	3:M:478:ASN:CA	2.82	0.62
3:M:449:VAL:HG11	3:M:452:ILE:CG1	2.30	0.62
4:S:9:ASN:OD1	4:S:13:GLN:CA	2.46	0.62
1:A:212:ILE:CB	1:A:247:ILE:HD13	2.30	0.61
1:A:399:ASP:O	1:A:420:ILE:N	2.33	0.61
1:A:625:LEU:O	1:A:626:SER:C	2.36	0.61
2:B:216:LYS:HB2	2:B:251:LEU:CG	2.30	0.61
2:B:302:PHE:CD2	2:B:328:LEU:HD11	2.35	0.61
2:B:512:VAL:HG11	2:B:548:ILE:CA	2.11	0.61
2:B:574:ASN:C	2:B:576:GLN:H	2.08	0.61
1:A:292:TYR:CD1	1:A:292:TYR:C	2.78	0.61
2:B:362:ALA:O	2:B:366:LEU:N	2.28	0.61
3:M:214:LEU:N	3:M:467:TYR:HB2	2.15	0.61
3:M:215:TYR:CE1	3:M:468:LYS:CG	2.82	0.61
3:M:327:PHE:HE1	3:M:336:ASP:CG	2.07	0.61
3:M:386:PHE:CD1	3:M:386:PHE:O	2.54	0.61
4:S:53:THR:OG1	4:S:68:VAL:O	2.10	0.61
1:A:182:ILE:O	1:A:221:VAL:CG2	2.47	0.61
1:A:630:PRO:CG	2:B:614:ILE:HG23	2.30	0.61
2:B:21:GLU:O	2:B:24:ALA:HB3	2.01	0.61
2:B:463:LEU:O	2:B:468:LEU:HD11	2.00	0.61
2:B:508:ARG:HB2	2:B:544:THR:HG21	1.78	0.61
2:B:520:SER:O	2:B:523:PHE:CE2	2.53	0.61
3:M:233:LEU:CD2	3:M:325:LEU:H	2.13	0.61
3:M:258:VAL:HG22	3:M:452:ILE:HG12	1.81	0.61
3:M:267:ILE:HG23	3:M:445:SER:OG	1.99	0.61
3:M:338:PHE:HE2	3:M:415:ILE:HG13	1.55	0.61
4:S:3:HIS:O	4:S:20:TYR:N	2.31	0.61
4:S:17:VAL:HG22	4:S:19:PHE:CE1	2.34	0.61
1:A:312:ALA:O	1:A:315:CYS:HB2	2.00	0.61
1:A:556:VAL:HG22	1:A:603:VAL:CG1	2.30	0.61
1:A:589:SER:CB	1:A:601:VAL:HG22	2.30	0.61
2:B:295:ASN:O	2:B:296:ASP:HB2	1.99	0.61
3:M:69:ILE:HD12	3:M:90:PHE:CE2	2.25	0.61
3:M:224:VAL:CG1	3:M:226:PHE:CE1	2.84	0.61
3:M:242:GLY:N	3:M:444:ALA:CB	2.64	0.61
3:M:356:LEU:CD2	3:M:358:ILE:CG1	2.77	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:LYS:O	1:A:276:PRO:HD2	2.01	0.61
1:A:630:PRO:CG	2:B:614:ILE:CG2	2.78	0.61
2:B:199:LEU:O	2:B:200:MET:C	2.40	0.61
2:B:355:ASN:C	2:B:359:LEU:CD2	2.73	0.61
3:M:121:ILE:O	3:M:125:PHE:HD1	1.81	0.61
3:M:265:ASN:HA	3:M:313:SER:OG	2.00	0.61
4:S:53:THR:CG2	4:S:57:LEU:CB	2.77	0.61
1:A:439:ASP:O	1:A:440:ASN:HB2	2.00	0.61
1:A:607:LEU:C	1:A:609:LEU:N	2.55	0.61
2:B:44:PRO:HB3	2:B:82:TYR:OH	2.00	0.61
2:B:178:ILE:HB	2:B:214:ALA:CB	2.29	0.61
2:B:340:ILE:HG12	2:B:373:LEU:HD23	1.82	0.61
2:B:355:ASN:O	2:B:359:LEU:CD2	2.48	0.61
2:B:498:THR:HG21	2:B:532:ARG:HG3	1.82	0.61
2:B:556:LEU:HD11	2:B:592:TYR:HB2	1.82	0.61
3:M:244:VAL:HG13	3:M:472:TYR:OH	1.99	0.61
3:M:443:SER:CB	3:M:447:ILE:CA	2.79	0.61
1:A:100:LEU:HD11	4:S:157:ASN:C	2.17	0.61
1:A:104:ARG:HG3	1:A:145:ILE:HD12	1.81	0.61
1:A:266:VAL:O	1:A:267:GLU:HB2	2.01	0.61
1:A:384:LEU:HG	1:A:385:LYS:N	2.15	0.61
1:A:573:GLU:O	1:A:577:VAL:HG23	2.00	0.61
2:B:41:ASN:CG	2:B:43:ASN:OD1	2.44	0.61
2:B:101:ILE:O	2:B:104:TYR:HB3	2.00	0.61
2:B:158:VAL:O	2:B:195:ILE:HD13	1.99	0.61
2:B:237:ILE:CG1	2:B:309:LEU:HD21	2.31	0.61
2:B:267:ASP:N	2:B:289:PRO:HG3	2.14	0.61
2:B:353:GLN:CB	3:M:47:SER:O	2.48	0.61
3:M:62:VAL:O	3:M:62:VAL:HG12	2.00	0.61
4:S:108:SER:O	4:S:112:CYS:SG	2.58	0.61
1:A:369:SER:HB2	1:A:424:TYR:HE2	1.66	0.61
1:A:634:ASN:HA	2:B:516:GLY:HA3	1.83	0.61
2:B:21:GLU:C	2:B:24:ALA:HB3	2.25	0.61
2:B:127:LEU:HD23	2:B:135:ARG:O	2.01	0.61
2:B:274:PRO:HD2	2:B:295:ASN:ND2	2.13	0.61
2:B:498:THR:HG22	2:B:532:ARG:CB	2.31	0.61
3:M:215:TYR:HE1	3:M:468:LYS:HG2	1.60	0.61
1:A:166:LEU:O	1:A:170:LEU:CD2	2.48	0.61
1:A:180:LYS:HE3	4:S:156:LEU:CD2	2.29	0.61
1:A:186:PHE:CD1	1:A:224:GLU:HG2	2.35	0.61
1:A:244:LEU:O	1:A:246:THR:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:204:ASP:HB3	2:B:207:VAL:HG23	1.82	0.61
2:B:339:PHE:O	2:B:343:LEU:CB	2.49	0.61
2:B:356:LYS:O	2:B:359:LEU:HB2	2.00	0.61
2:B:559:ASP:C	2:B:563:PHE:HB2	2.26	0.61
3:M:6:TYR:CA	3:M:16:PHE:O	2.49	0.61
3:M:217:ASP:HB3	3:M:471:LYS:CA	2.31	0.61
3:M:244:VAL:HG22	3:M:472:TYR:CE2	2.36	0.61
3:M:435:LEU:H	3:M:479:PHE:HB2	1.66	0.61
1:A:99:LYS:HB3	4:S:163:THR:C	2.25	0.61
2:B:38:TYR:CD1	2:B:42:ILE:HA	2.35	0.61
2:B:127:LEU:HB2	2:B:157:THR:CG2	2.11	0.61
2:B:216:LYS:HB2	2:B:251:LEU:HD22	1.82	0.61
2:B:216:LYS:HG3	2:B:251:LEU:HA	1.83	0.61
2:B:362:ALA:HB1	2:B:366:LEU:HD11	1.81	0.61
2:B:599:ALA:C	2:B:601:TYR:H	2.08	0.61
3:M:9:ASP:CA	3:M:75:TRP:CD1	2.83	0.61
3:M:9:ASP:OD2	3:M:13:LYS:HB3	2.01	0.61
3:M:220:GLU:HG3	3:M:439:TYR:HB2	1.82	0.61
3:M:220:GLU:HG2	3:M:439:TYR:O	2.01	0.61
3:M:228:LYS:NZ	3:M:327:PHE:H	1.98	0.61
3:M:479:PHE:CD2	3:M:479:PHE:N	2.59	0.61
4:S:53:THR:CG2	4:S:68:VAL:N	2.62	0.61
1:A:582:ILE:HD11	1:A:608:ARG:CA	2.30	0.60
1:A:627:GLU:HG2	2:B:617:LEU:CA	1.96	0.60
2:B:486:HIS:NE2	2:B:518:ILE:CB	2.48	0.60
2:B:497:LEU:O	2:B:499:VAL:N	2.34	0.60
3:M:84:LYS:O	3:M:88:ASP:HB3	2.01	0.60
3:M:219:LEU:HB2	3:M:472:TYR:C	2.14	0.60
4:S:14:PRO:O	4:S:15:ARG:CD	2.49	0.60
4:S:25:LEU:CB	4:S:26:PRO:HD3	2.24	0.60
2:B:124:GLN:HA	2:B:127:LEU:HD12	1.82	0.60
2:B:343:LEU:HD21	2:B:362:ALA:CB	2.18	0.60
2:B:354:GLY:O	2:B:358:MET:CG	2.47	0.60
2:B:431:MET:C	2:B:433:VAL:N	2.55	0.60
2:B:602:ASP:O	2:B:608:ARG:NE	2.33	0.60
3:M:380:ARG:CZ	3:M:412:ARG:HD2	2.31	0.60
4:S:47:GLN:OE1	4:S:84:TYR:HD2	1.84	0.60
1:A:111:SER:HB3	1:A:152:THR:OG1	1.91	0.60
1:A:288:THR:CA	1:A:291:ILE:HD13	2.30	0.60
1:A:309:PHE:CE1	1:A:348:PHE:CZ	2.89	0.60
2:B:81:LEU:O	2:B:82:TYR:C	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:132:SER:HB2	2:B:169:VAL:HG23	1.82	0.60
2:B:279:LEU:HD12	2:B:288:TYR:CE1	2.35	0.60
2:B:393:ILE:HG23	2:B:431:MET:HB2	1.66	0.60
2:B:399:LEU:O	2:B:400:SER:C	2.38	0.60
3:M:60:LEU:CD2	3:M:62:VAL:CG2	2.56	0.60
3:M:220:GLU:HG3	3:M:439:TYR:CB	2.31	0.60
4:S:6:LEU:CD1	4:S:32:LEU:HD13	2.32	0.60
1:A:270:LEU:HD12	1:A:274:LEU:HD23	1.84	0.60
1:A:436:CYS:SG	1:A:450:TYR:CE1	2.94	0.60
1:A:631:SER:CB	2:B:557:SER:HB3	2.12	0.60
2:B:47:LEU:HD22	2:B:66:ILE:HG13	0.63	0.60
2:B:57:ARG:O	2:B:60:ARG:HB3	2.01	0.60
2:B:90:ILE:HG12	2:B:98:LYS:CD	2.31	0.60
2:B:103:LEU:HD13	3:M:132:GLY:CA	2.28	0.60
2:B:178:ILE:HG23	2:B:218:CYS:H	1.63	0.60
2:B:231:ARG:O	2:B:233:TYR:N	2.34	0.60
2:B:303:LEU:CD2	2:B:325:LEU:HD23	2.31	0.60
3:M:65:TYR:CG	3:M:86:PRO:HB3	2.35	0.60
3:M:68:VAL:O	3:M:68:VAL:HG12	2.01	0.60
4:S:10:LYS:HA	4:S:84:TYR:CE1	2.36	0.60
1:A:255:ARG:HD3	4:S:141:VAL:C	2.25	0.60
1:A:399:ASP:O	1:A:420:ILE:HB	2.01	0.60
1:A:624:LEU:HA	2:B:617:LEU:HD21	1.84	0.60
1:A:633:PHE:HE1	2:B:513:TRP:HE3	0.80	0.60
2:B:136:CYS:SG	2:B:168:MET:HG2	2.41	0.60
2:B:154:ILE:CG2	2:B:176:ALA:HB1	2.31	0.60
2:B:197:LYS:HA	2:B:229:HIS:HD2	1.53	0.60
2:B:214:ALA:C	2:B:216:LYS:H	2.09	0.60
2:B:219:TYR:HB3	2:B:223:LEU:HD23	0.61	0.60
2:B:319:LEU:CD1	2:B:358:MET:HG2	2.12	0.60
2:B:341:GLU:CG	2:B:345:ARG:HE	2.13	0.60
2:B:546:CYS:SG	2:B:607:ILE:HA	2.42	0.60
2:B:553:ALA:CB	2:B:614:ILE:HG21	2.28	0.60
2:B:589:SER:HG	2:B:618:PHE:HE2	1.43	0.60
2:B:592:TYR:CE2	2:B:618:PHE:CE2	2.89	0.60
1:A:121:LEU:HD11	1:A:155:THR:CG2	2.30	0.60
1:A:360:LEU:HD21	1:A:375:VAL:HG21	1.83	0.60
1:A:403:LEU:HD22	1:A:422:GLU:OE2	2.01	0.60
1:A:586:GLU:O	1:A:587:ASN:O	2.17	0.60
1:A:631:SER:C	2:B:554:LYS:HG3	2.24	0.60
2:B:25:VAL:N	2:B:35:TYR:CD2	2.70	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:69:ILE:O	2:B:70:MET:C	2.36	0.60
2:B:374:PHE:HD2	2:B:402:LEU:HD11	1.63	0.60
2:B:417:TYR:O	2:B:421:SER:HB2	2.01	0.60
2:B:596:LEU:HD13	2:B:611:ALA:C	2.27	0.60
3:M:104:PHE:CE1	3:M:113:LYS:HE3	2.18	0.60
3:M:250:LEU:CD1	3:M:254:PRO:HG2	2.30	0.60
4:S:135:ILE:CG2	4:S:141:VAL:CG2	2.78	0.60
1:A:416:ILE:O	1:A:418:ILE:HG22	2.02	0.60
2:B:45:GLN:C	2:B:47:LEU:N	2.59	0.60
2:B:196:LEU:HB3	2:B:215:TYR:OH	2.02	0.60
2:B:208:ILE:CG2	2:B:236:ILE:HG21	2.31	0.60
2:B:451:MET:HG3	2:B:489:ILE:HD11	1.83	0.60
2:B:582:ASP:O	2:B:584:SER:CA	2.49	0.60
3:M:52:ASP:CA	3:M:67:SER:C	2.69	0.60
3:M:451:ALA:O	3:M:452:ILE:HD12	2.00	0.60
1:A:88:ASN:O	1:A:90:HIS:N	2.33	0.60
1:A:96:SER:HB3	1:A:127:LEU:HD22	1.83	0.60
1:A:104:ARG:HG3	1:A:145:ILE:HG21	1.83	0.60
2:B:98:LYS:HD2	2:B:102:HIS:NE2	2.15	0.60
2:B:196:LEU:HA	2:B:199:LEU:HD12	1.83	0.60
2:B:493:LEU:HD21	2:B:511:ILE:HA	1.83	0.60
2:B:530:LEU:CD2	2:B:591:MET:CB	2.79	0.60
2:B:537:PHE:C	2:B:539:ASN:H	2.09	0.60
3:M:6:TYR:OH	3:M:17:GLN:CD	2.41	0.60
3:M:121:ILE:CG2	3:M:125:PHE:HE1	2.15	0.60
3:M:124:ILE:CG2	3:M:128:CYS:SG	2.90	0.60
3:M:271:SER:O	3:M:300:LEU:HA	2.01	0.60
3:M:454:ILE:HG22	3:M:464:THR:HG21	1.77	0.60
4:S:15:ARG:NH2	4:S:118:GLU:CD	2.59	0.60
1:A:67:LYS:HD2	1:A:102:GLN:OE1	2.02	0.60
1:A:150:LEU:CD1	1:A:162:ILE:HG12	2.27	0.60
1:A:166:LEU:CD1	1:A:185:LEU:HD21	2.30	0.60
1:A:292:TYR:O	1:A:295:VAL:HB	2.01	0.60
1:A:441:TYR:O	1:A:442:SER:C	2.44	0.60
1:A:633:PHE:CG	2:B:550:VAL:CB	2.83	0.60
2:B:174:ALA:CB	2:B:211:ALA:HB2	2.30	0.60
2:B:274:PRO:N	2:B:295:ASN:HD21	1.99	0.60
2:B:286:ILE:O	2:B:286:ILE:HG23	2.00	0.60
2:B:523:PHE:HD1	2:B:559:ASP:CG	2.09	0.60
2:B:562:ASN:HB3	2:B:580:TYR:O	2.02	0.60
3:M:99:ILE:HG22	3:M:103:TYR:CD1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:247:ARG:N	3:M:470:ALA:HB2	2.17	0.60
2:B:237:ILE:O	2:B:239:GLN:N	2.35	0.60
2:B:357:GLU:O	2:B:361:GLN:HG3	2.01	0.60
2:B:482:ASN:N	2:B:483:PRO:HD3	2.16	0.60
2:B:549:LEU:CD2	2:B:611:ALA:HA	2.10	0.60
2:B:596:LEU:HD22	2:B:615:SER:HB2	1.83	0.60
3:M:225:VAL:HG13	3:M:480:GLN:HB3	1.83	0.60
3:M:226:PHE:O	3:M:482:ARG:N	2.29	0.60
1:A:170:LEU:CA	1:A:206:LYS:HD2	2.32	0.59
2:B:98:LYS:HD2	2:B:138:ALA:CB	2.29	0.59
2:B:182:ARG:HG3	2:B:217:GLU:HB3	1.83	0.59
2:B:254:LYS:O	2:B:258:GLN:HG2	2.02	0.59
2:B:353:GLN:HE22	2:B:356:LYS:HD2	1.67	0.59
2:B:360:LEU:HB3	2:B:394:TRP:CB	2.31	0.59
2:B:544:THR:O	2:B:548:ILE:HG13	2.01	0.59
3:M:53:HIS:HB3	3:M:65:TYR:CZ	2.37	0.59
3:M:386:PHE:HB2	3:M:397:TRP:CD1	2.38	0.59
4:S:48:SER:CA	4:S:77:TYR:HB3	2.27	0.59
1:A:88:ASN:HB2	1:A:120:ILE:CD1	2.29	0.59
1:A:147:LEU:CG	1:A:166:LEU:CD2	2.80	0.59
1:A:609:LEU:HD13	1:A:609:LEU:C	2.26	0.59
2:B:37:TYR:OH	2:B:46:GLN:NE2	0.65	0.59
2:B:80:GLN:CB	2:B:115:LEU:HD11	2.32	0.59
2:B:144:ASP:CA	2:B:179:LYS:HD3	2.32	0.59
2:B:215:TYR:O	2:B:219:TYR:HD1	1.85	0.59
2:B:286:ILE:O	2:B:287:GLU:C	2.45	0.59
2:B:412:PHE:HE2	2:B:446:TRP:CB	2.13	0.59
2:B:574:ASN:C	2:B:576:GLN:N	2.57	0.59
3:M:293:PRO:C	3:M:294:ASP:O	2.30	0.59
1:A:136:GLY:O	1:A:137:ASN:C	2.27	0.59
1:A:331:ARG:O	1:A:334:SER:N	2.35	0.59
1:A:533:ILE:HG13	1:A:562:TRP:CH2	2.36	0.59
2:B:132:SER:C	2:B:169:VAL:CG2	2.76	0.59
2:B:143:SER:HB2	2:B:179:LYS:HD2	1.81	0.59
2:B:237:ILE:CG1	2:B:245:GLN:HG2	2.33	0.59
2:B:316:THR:HG21	3:M:90:PHE:HE2	0.87	0.59
2:B:563:PHE:O	2:B:566:ALA:N	2.35	0.59
3:M:212:ASN:CB	3:M:250:LEU:CD2	2.73	0.59
3:M:220:GLU:OE2	3:M:442:GLN:HB3	2.02	0.59
3:M:222:PHE:HD1	3:M:240:ILE:HG23	1.57	0.59
3:M:257:ALA:O	3:M:452:ILE:CG2	2.41	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:269:ILE:C	3:M:302:TYR:CD1	2.80	0.59
3:M:344:ILE:O	3:M:344:ILE:HG22	2.02	0.59
3:M:437:TYR:CB	3:M:439:TYR:CZ	2.84	0.59
1:A:145:ILE:O	1:A:148:SER:N	2.33	0.59
1:A:236:LEU:C	1:A:238:PRO:HD2	2.27	0.59
1:A:253:ILE:CG2	1:A:281:LEU:HB3	2.32	0.59
1:A:314:ALA:O	1:A:318:ARG:HD3	2.01	0.59
1:A:447:PHE:O	1:A:450:TYR:HB3	2.03	0.59
1:A:606:PHE:CD1	1:A:629:LEU:HG	2.37	0.59
1:A:607:LEU:O	1:A:610:SER:N	2.35	0.59
2:B:196:LEU:C	2:B:215:TYR:OH	2.46	0.59
2:B:297:PRO:O	2:B:301:LEU:CG	2.49	0.59
2:B:352:ASN:HB2	3:M:49:ASP:HB3	1.81	0.59
2:B:563:PHE:HE2	2:B:584:SER:HA	1.64	0.59
3:M:354:ASP:HA	3:M:401:LYS:HB3	1.83	0.59
3:M:374:TYR:OH	3:M:395:GLY:N	2.35	0.59
3:M:443:SER:HB3	3:M:447:ILE:CB	2.29	0.59
1:A:153:ILE:HB	1:A:158:LEU:HD21	1.85	0.59
1:A:219:VAL:HG12	1:A:259:LEU:HD12	1.84	0.59
1:A:401:VAL:HG23	1:A:418:ILE:H	1.63	0.59
1:A:487:MET:O	1:A:488:ARG:C	2.43	0.59
1:A:630:PRO:HG2	2:B:614:ILE:CG2	2.33	0.59
2:B:64:LYS:HG3	2:B:100:LEU:CD1	2.33	0.59
2:B:161:LEU:HB3	2:B:173:VAL:HG21	1.84	0.59
2:B:215:TYR:CD1	2:B:233:TYR:CZ	2.87	0.59
2:B:215:TYR:HD1	2:B:233:TYR:CZ	2.12	0.59
2:B:230:PHE:CE2	2:B:298:ASP:C	2.77	0.59
3:M:99:ILE:CG2	3:M:103:TYR:HE1	2.15	0.59
3:M:225:VAL:CA	3:M:480:GLN:O	2.51	0.59
3:M:278:ILE:HG23	3:M:278:ILE:O	2.02	0.59
3:M:323:MET:SD	3:M:342:LEU:CB	2.91	0.59
3:M:338:PHE:CE2	3:M:415:ILE:HG12	2.33	0.59
1:A:68:THR:OG1	4:S:167:ILE:N	2.36	0.59
1:A:179:LYS:HD2	4:S:143:GLU:CB	2.30	0.59
1:A:244:LEU:CB	1:A:256:LEU:HD13	2.32	0.59
1:A:561:ASN:O	1:A:564:ASN:N	2.35	0.59
2:B:38:TYR:CZ	2:B:42:ILE:HG12	2.21	0.59
2:B:537:PHE:CZ	2:B:545:ARG:CD	2.85	0.59
3:M:220:GLU:CG	3:M:439:TYR:CD1	2.85	0.59
3:M:290:PHE:CD1	3:M:299:LEU:HD13	2.37	0.59
1:A:170:LEU:O	1:A:206:LYS:NZ	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:PHE:HD2	1:A:330:LEU:CD2	2.14	0.59
1:A:375:VAL:O	1:A:378:ILE:O	2.21	0.59
1:A:469:LEU:O	1:A:470:GLY:C	2.43	0.59
1:A:634:ASN:ND2	2:B:554:LYS:CB	2.49	0.59
1:A:637:GLU:HG3	2:B:515:PHE:N	1.68	0.59
2:B:117:LEU:HA	2:B:150:LEU:CD2	2.33	0.59
2:B:135:ARG:HH12	2:B:164:ASP:HB2	1.66	0.59
2:B:159:LYS:CE	2:B:191:GLU:CD	2.75	0.59
2:B:597:TYR:O	2:B:601:TYR:CD1	2.55	0.59
1:A:107:TYR:HE2	1:A:128:LEU:CD2	2.03	0.59
1:A:153:ILE:HB	1:A:158:LEU:CD2	2.33	0.59
1:A:291:ILE:HD12	1:A:291:ILE:H	1.67	0.59
1:A:392:MET:HE1	1:A:428:MET:CE	2.31	0.59
1:A:404:GLN:OE1	2:B:7:ARG:NH2	2.35	0.59
1:A:528:ASN:C	1:A:530:ASN:N	2.52	0.59
1:A:556:VAL:CG2	1:A:603:VAL:HG13	2.33	0.59
2:B:24:ALA:HB1	2:B:35:TYR:CG	2.37	0.59
2:B:91:THR:HA	2:B:126:SER:HB2	1.85	0.59
2:B:197:LYS:CD	2:B:283:TYR:CE2	2.86	0.59
2:B:563:PHE:CD2	2:B:584:SER:C	2.81	0.59
3:M:3:LEU:CG	3:M:80:THR:O	2.49	0.59
3:M:104:PHE:CD1	3:M:117:ASN:ND2	2.71	0.59
3:M:240:ILE:HG22	3:M:444:ALA:HB1	1.85	0.59
3:M:467:TYR:CG	3:M:468:LYS:N	2.71	0.59
1:A:67:LYS:HB2	4:S:165:SER:CB	2.33	0.59
1:A:229:ASN:O	1:A:230:PRO:C	2.36	0.59
2:B:50:LEU:HD23	2:B:62:ALA:CA	2.33	0.59
2:B:142:LEU:HD13	2:B:154:ILE:HG12	1.85	0.59
2:B:155:LEU:HD21	2:B:192:LEU:N	2.17	0.59
2:B:178:ILE:CB	2:B:214:ALA:CA	2.81	0.59
2:B:215:TYR:CE2	2:B:229:HIS:ND1	2.70	0.59
2:B:275:ARG:HG2	2:B:294:VAL:HG21	1.83	0.59
2:B:451:MET:CG	2:B:489:ILE:HG12	2.33	0.59
2:B:461:HIS:HB3	2:B:463:LEU:HD23	1.84	0.59
2:B:556:LEU:CD2	2:B:588:ILE:CD1	2.79	0.59
3:M:243:ILE:HG21	3:M:298:ARG:HG2	1.83	0.59
1:A:402:ILE:O	1:A:402:ILE:HG22	2.02	0.59
1:A:425:LYS:HD2	1:A:428:MET:HE3	1.85	0.59
2:B:28:SER:N	2:B:32:GLU:CD	2.55	0.59
2:B:41:ASN:HB3	2:B:43:ASN:CG	2.19	0.59
2:B:170:ARG:NH1	2:B:198:GLU:C	2.61	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:387:ASP:HB3	2:B:391:ALA:CB	2.32	0.59
2:B:389:ILE:HG23	2:B:427:ASN:HB2	1.82	0.59
2:B:461:HIS:O	2:B:462:ASN:O	2.16	0.59
3:M:244:VAL:HG22	3:M:472:TYR:HE2	1.66	0.59
3:M:265:ASN:O	3:M:266:ASP:C	2.44	0.59
4:S:38:LEU:HB3	4:S:51:LEU:HD13	1.83	0.59
1:A:260:PHE:CE2	1:A:274:LEU:CG	2.84	0.58
1:A:516:ILE:HD13	1:A:551:LEU:CB	2.32	0.58
2:B:90:ILE:HG12	2:B:98:LYS:CE	2.32	0.58
2:B:197:LYS:O	2:B:198:GLU:C	2.42	0.58
2:B:257:LYS:HA	2:B:260:LEU:CG	2.33	0.58
2:B:360:LEU:O	2:B:363:ILE:HB	2.03	0.58
3:M:99:ILE:CG2	3:M:103:TYR:CE1	2.86	0.58
3:M:218:LEU:HG	3:M:244:VAL:CG2	2.29	0.58
3:M:225:VAL:HA	3:M:480:GLN:N	2.18	0.58
3:M:347:PHE:CZ	3:M:350:VAL:CG1	2.85	0.58
1:A:97:SER:H	4:S:166:LYS:NZ	2.02	0.58
1:A:176:TYR:CB	4:S:155:GLU:HG2	2.31	0.58
1:A:270:LEU:CD1	1:A:274:LEU:HD23	2.32	0.58
1:A:278:ILE:O	1:A:280:GLU:N	2.36	0.58
2:B:175:LEU:O	2:B:178:ILE:HB	2.03	0.58
2:B:263:PRO:HA	2:B:266:VAL:CG2	2.33	0.58
2:B:355:ASN:O	2:B:359:LEU:HD23	2.03	0.58
2:B:549:LEU:HD22	2:B:611:ALA:HB3	1.72	0.58
2:B:562:ASN:CB	2:B:580:TYR:HB2	2.30	0.58
3:M:6:TYR:CD2	3:M:16:PHE:O	2.56	0.58
3:M:223:HIS:N	3:M:479:PHE:CE2	2.69	0.58
3:M:245:ASP:O	3:M:246:VAL:HG22	2.03	0.58
3:M:290:PHE:HZ	3:M:297:PHE:CG	2.11	0.58
3:M:410:VAL:HG13	3:M:412:ARG:HH11	1.66	0.58
4:S:8:PHE:CE1	4:S:84:TYR:HB3	1.80	0.58
1:A:180:LYS:CE	4:S:156:LEU:HD11	2.33	0.58
1:A:223:CYS:SG	1:A:262:ASN:ND2	2.66	0.58
1:A:638:LEU:HD12	2:B:518:ILE:HG22	1.77	0.58
2:B:79:VAL:C	2:B:108:PHE:HE1	2.12	0.58
2:B:87:VAL:CG2	2:B:119:SER:HA	2.33	0.58
2:B:108:PHE:O	2:B:109:ALA:C	2.31	0.58
2:B:134:LEU:C	2:B:136:CYS:N	2.57	0.58
2:B:177:ILE:CD1	2:B:196:LEU:CD2	2.82	0.58
2:B:537:PHE:CB	2:B:598:LEU:CD1	2.30	0.58
2:B:563:PHE:HA	2:B:566:ALA:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:569:THR:CA	2:B:571:SER:H	2.16	0.58
2:B:589:SER:OG	2:B:618:PHE:CZ	2.46	0.58
3:M:56:VAL:O	3:M:56:VAL:CG1	2.50	0.58
3:M:217:ASP:HB2	3:M:470:ALA:CA	2.33	0.58
3:M:235:LEU:HD13	3:M:306:LEU:HB3	1.85	0.58
3:M:245:ASP:N	3:M:472:TYR:CD2	2.57	0.58
3:M:252:ASP:C	3:M:254:PRO:HD2	2.28	0.58
3:M:443:SER:OG	3:M:448:TYR:N	2.35	0.58
1:A:533:ILE:HG12	1:A:562:TRP:CZ2	2.39	0.58
1:A:566:PHE:HD1	1:A:570:LYS:HA	1.68	0.58
2:B:120:ILE:HG22	2:B:153:ILE:CG2	2.33	0.58
2:B:181:TYR:CD2	2:B:218:CYS:CA	2.85	0.58
2:B:237:ILE:CD1	2:B:309:LEU:HD21	2.34	0.58
2:B:308:CYS:O	2:B:311:TYR:N	2.37	0.58
2:B:588:ILE:CG2	2:B:618:PHE:CE1	2.86	0.58
2:B:588:ILE:CG2	2:B:618:PHE:CZ	2.78	0.58
3:M:9:ASP:HA	3:M:75:TRP:HD1	1.67	0.58
3:M:19:LEU:CD1	3:M:24:ALA:CB	2.80	0.58
4:S:53:THR:N	4:S:69:ASN:CB	2.58	0.58
2:B:51:LEU:HD22	2:B:59:VAL:HG13	1.84	0.58
2:B:497:LEU:HD11	2:B:508:ARG:CZ	2.31	0.58
3:M:215:TYR:CG	3:M:468:LYS:C	2.81	0.58
3:M:215:TYR:CB	3:M:469:GLY:H	2.13	0.58
3:M:219:LEU:HA	3:M:440:ILE:HA	1.85	0.58
3:M:442:GLN:OE1	3:M:442:GLN:HA	2.02	0.58
1:A:190:LEU:HD11	1:A:228:LYS:HE3	1.85	0.58
1:A:338:PHE:HE2	1:A:352:PHE:CZ	2.21	0.58
1:A:461:CYS:C	1:A:463:ASP:N	2.51	0.58
1:A:600:SER:C	1:A:602:GLU:H	2.11	0.58
2:B:120:ILE:HG21	2:B:154:ILE:HG13	1.82	0.58
2:B:177:ILE:HD11	2:B:195:ILE:HG22	1.84	0.58
3:M:317:MET:CG	3:M:320:ILE:O	2.51	0.58
3:M:354:ASP:HB2	3:M:440:ILE:CD1	2.33	0.58
3:M:360:LEU:CD2	3:M:362:PHE:HE2	2.14	0.58
1:A:401:VAL:HG23	1:A:418:ILE:C	2.28	0.58
1:A:522:PHE:C	1:A:524:THR:H	2.11	0.58
1:A:581:LEU:HG	1:A:607:LEU:HD11	1.86	0.58
2:B:29:LYS:O	2:B:32:GLU:CG	2.50	0.58
2:B:50:LEU:CD2	2:B:62:ALA:HB2	2.34	0.58
2:B:133:GLU:O	2:B:168:MET:CE	2.51	0.58
2:B:174:ALA:CB	2:B:211:ALA:HB1	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:188:TYR:O	2:B:192:LEU:HD13	2.02	0.58
2:B:316:THR:HG23	3:M:90:PHE:CZ	2.39	0.58
2:B:346:THR:CG2	2:B:350:THR:HG21	2.29	0.58
3:M:380:ARG:NH1	3:M:412:ARG:HD2	2.19	0.58
4:S:45:ASP:C	4:S:47:GLN:H	2.12	0.58
1:A:488:ARG:CG	1:A:522:PHE:CD2	2.87	0.58
2:B:37:TYR:HH	2:B:46:GLN:NE2	0.27	0.58
2:B:397:GLN:O	2:B:400:SER:OG	2.16	0.58
3:M:1:MET:HA	3:M:81:SER:OG	2.04	0.58
3:M:228:LYS:HZ2	3:M:327:PHE:H	1.52	0.58
3:M:437:TYR:HB2	3:M:439:TYR:CE1	2.38	0.58
4:S:55:PRO:HB3	4:S:71:GLU:HA	1.86	0.58
4:S:117:ASN:HB2	4:S:120:ASP:OD2	2.04	0.58
1:A:392:MET:HE2	1:A:460:LEU:CD1	2.34	0.58
1:A:441:TYR:C	1:A:443:SER:N	2.58	0.58
2:B:30:LEU:HD12	2:B:30:LEU:O	2.04	0.58
2:B:37:TYR:CE2	2:B:46:GLN:OE1	2.56	0.58
2:B:83:PHE:CZ	2:B:105:LEU:HG	2.39	0.58
2:B:90:ILE:O	2:B:98:LYS:HE2	2.04	0.58
2:B:159:LYS:HG3	2:B:191:GLU:OE1	2.03	0.58
2:B:178:ILE:CG1	2:B:214:ALA:CA	2.70	0.58
2:B:267:ASP:N	2:B:289:PRO:HB2	2.03	0.58
3:M:101:LEU:CD2	3:M:106:LYS:CG	2.81	0.58
3:M:218:LEU:N	3:M:218:LEU:HD12	2.18	0.58
3:M:242:GLY:O	3:M:301:GLU:HA	2.04	0.58
3:M:347:PHE:HE2	3:M:352:GLN:N	2.02	0.58
1:A:68:THR:CB	4:S:167:ILE:N	2.66	0.58
1:A:101:GLN:CG	4:S:167:ILE:HG13	2.31	0.58
1:A:102:GLN:HG2	4:S:166:LYS:CA	2.22	0.58
1:A:104:ARG:CG	1:A:145:ILE:HG21	2.34	0.58
1:A:263:LEU:O	1:A:266:VAL:C	2.46	0.58
1:A:322:PHE:CB	1:A:330:LEU:HD21	2.32	0.58
1:A:555:LEU:HD12	1:A:585:PHE:CE1	2.39	0.58
1:A:581:LEU:CD2	1:A:607:LEU:HD21	2.33	0.58
1:A:596:VAL:O	1:A:599:ARG:HB2	2.03	0.58
2:B:334:MET:CB	2:B:369:LEU:HD23	2.34	0.58
2:B:367:SER:OG	2:B:401:THR:CB	2.51	0.58
2:B:400:SER:CA	2:B:439:CYS:SG	2.91	0.58
2:B:403:ILE:HG22	2:B:411:ILE:CD1	2.33	0.58
1:A:189:PHE:HD2	1:A:225:LEU:HD11	1.62	0.57
1:A:204:VAL:HG13	1:A:239:LEU:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:LEU:HD13	1:A:435:ILE:HG23	1.80	0.57
1:A:438:ALA:O	1:A:441:TYR:CD1	2.56	0.57
1:A:464:ILE:HG23	1:A:465:SER:HA	1.86	0.57
1:A:516:ILE:HG12	1:A:551:LEU:CD1	2.34	0.57
1:A:561:ASN:O	1:A:562:TRP:C	2.44	0.57
2:B:178:ILE:CD1	2:B:215:TYR:N	2.67	0.57
2:B:189:HIS:CE1	2:B:193:LEU:HD11	2.38	0.57
2:B:223:LEU:HD22	2:B:255:TYR:CZ	2.34	0.57
2:B:278:PRO:CG	2:B:289:PRO:O	2.51	0.57
2:B:350:THR:HB	2:B:352:ASN:HD22	1.69	0.57
2:B:470:ALA:O	2:B:473:ASN:N	2.35	0.57
2:B:519:ALA:HB2	2:B:555:LEU:HD13	1.86	0.57
2:B:534:ILE:O	2:B:536:ASN:N	2.37	0.57
3:M:435:LEU:HB2	3:M:437:TYR:CE1	2.39	0.57
1:A:105:VAL:HG21	4:S:167:ILE:C	2.30	0.57
1:A:241:TYR:HD2	1:A:242:GLU:N	2.01	0.57
1:A:355:LEU:O	1:A:359:LEU:HG	2.04	0.57
1:A:603:VAL:O	1:A:606:PHE:N	2.36	0.57
2:B:123:LEU:HD22	2:B:138:ALA:HB1	1.86	0.57
2:B:134:LEU:C	2:B:136:CYS:H	2.11	0.57
2:B:175:LEU:CD2	2:B:210:CYS:HB3	2.34	0.57
2:B:200:MET:CE	2:B:232:ARG:H	2.15	0.57
2:B:219:TYR:CA	2:B:223:LEU:CD2	2.82	0.57
2:B:247:TYR:OH	3:M:91:THR:CB	2.51	0.57
2:B:278:PRO:HD3	2:B:290:SER:HA	1.85	0.57
2:B:310:ILE:O	2:B:311:TYR:O	2.21	0.57
2:B:433:VAL:HG12	2:B:474:VAL:HG21	0.60	0.57
2:B:537:PHE:CZ	2:B:599:ALA:HA	2.39	0.57
3:M:52:ASP:CA	3:M:67:SER:CA	2.82	0.57
3:M:218:LEU:HG	3:M:472:TYR:CE2	2.32	0.57
3:M:380:ARG:N	3:M:412:ARG:O	2.37	0.57
3:M:440:ILE:O	3:M:440:ILE:HG22	2.03	0.57
4:S:107:GLU:HG2	4:S:146:VAL:HG21	1.85	0.57
1:A:92:LEU:HD13	1:A:123:LEU:CD1	2.27	0.57
1:A:101:GLN:O	4:S:167:ILE:CD1	2.53	0.57
1:A:189:PHE:CG	1:A:225:LEU:HD21	2.37	0.57
1:A:633:PHE:HD2	2:B:550:VAL:O	1.79	0.57
1:A:637:GLU:HB3	2:B:516:GLY:HA3	1.80	0.57
2:B:44:PRO:O	2:B:47:LEU:CB	2.48	0.57
2:B:178:ILE:CG2	2:B:214:ALA:CA	2.83	0.57
2:B:178:ILE:CA	2:B:218:CYS:HB2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:189:HIS:NE2	2:B:222:HIS:HB3	2.20	0.57
2:B:292:GLU:OE2	2:B:296:ASP:CG	2.46	0.57
2:B:306:LEU:HD22	2:B:321:CYS:SG	2.45	0.57
2:B:508:ARG:O	2:B:512:VAL:CG2	2.43	0.57
4:S:80:TYR:CE2	4:S:110:ASP:HB2	2.39	0.57
1:A:132:LEU:HD23	1:A:143:VAL:HG22	1.86	0.57
1:A:255:ARG:C	1:A:257:LEU:H	2.11	0.57
1:A:492:ILE:HD11	1:A:522:PHE:HB3	1.85	0.57
1:A:627:GLU:O	1:A:630:PRO:HD2	2.05	0.57
2:B:64:LYS:CG	2:B:100:LEU:HD11	2.34	0.57
2:B:559:ASP:OD2	2:B:563:PHE:CE1	2.57	0.57
3:M:17:GLN:H	3:M:118:TYR:HE1	1.51	0.57
3:M:74:TYR:HD2	3:M:109:LEU:O	1.88	0.57
3:M:228:LYS:HZ2	3:M:326:HIS:HA	1.69	0.57
4:S:15:ARG:HD2	4:S:122:ILE:HG13	1.84	0.57
1:A:94:VAL:O	1:A:95:MET:C	2.39	0.57
1:A:234:ILE:HG23	1:A:267:GLU:HG2	1.86	0.57
1:A:253:ILE:HG12	1:A:281:LEU:CG	2.35	0.57
1:A:594:PHE:HD2	2:B:474:VAL:HG23	1.70	0.57
2:B:134:LEU:O	2:B:136:CYS:N	2.37	0.57
2:B:158:VAL:HG21	2:B:177:ILE:HG13	1.86	0.57
2:B:162:VAL:HG21	2:B:195:ILE:CB	2.31	0.57
2:B:175:LEU:HD23	2:B:210:CYS:C	2.28	0.57
2:B:277:CYS:HB2	2:B:295:ASN:C	2.28	0.57
2:B:313:SER:O	2:B:315:PRO:HD3	2.04	0.57
2:B:396:ILE:CD1	2:B:418:TYR:HE2	2.11	0.57
3:M:374:TYR:CZ	3:M:390:ILE:HD13	2.40	0.57
4:S:8:PHE:HA	4:S:13:GLN:O	2.04	0.57
4:S:35:VAL:HB	4:S:77:TYR:OH	2.05	0.57
1:A:183:THR:HG21	4:S:134:GLU:HA	1.87	0.57
1:A:220:SER:CB	4:S:141:VAL:C	2.75	0.57
1:A:253:ILE:CG1	1:A:281:LEU:HD22	2.35	0.57
1:A:637:GLU:HB2	2:B:551:LEU:CD2	2.35	0.57
2:B:17:VAL:O	2:B:18:ILE:O	2.21	0.57
2:B:108:PHE:CZ	2:B:115:LEU:CD2	2.88	0.57
2:B:251:LEU:O	2:B:254:LYS:N	2.36	0.57
3:M:114:ILE:O	3:M:118:TYR:N	2.38	0.57
3:M:121:ILE:HG23	3:M:125:PHE:HE1	1.69	0.57
3:M:317:MET:HB2	3:M:322:LEU:CB	2.35	0.57
4:S:14:PRO:HB3	4:S:36:TYR:CE1	2.33	0.57
4:S:111:ARG:HB2	4:S:150:VAL:CG2	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:105:VAL:HG23	4:S:167:ILE:CG2	2.27	0.57
1:A:630:PRO:HG2	2:B:614:ILE:HG23	1.86	0.57
1:A:637:GLU:HG2	2:B:516:GLY:N	1.95	0.57
2:B:21:GLU:CA	2:B:24:ALA:CB	2.58	0.57
2:B:64:LYS:N	2:B:100:LEU:HD13	2.19	0.57
2:B:162:VAL:O	2:B:163:THR:C	2.35	0.57
2:B:181:TYR:C	2:B:218:CYS:HA	2.30	0.57
2:B:231:ARG:O	2:B:234:CYS:N	2.38	0.57
2:B:277:CYS:SG	2:B:292:GLU:OE2	2.62	0.57
2:B:360:LEU:HD13	2:B:391:ALA:CA	2.25	0.57
1:A:63:ASP:O	4:S:165:SER:CB	2.51	0.57
1:A:114:PHE:CD2	1:A:153:ILE:HG23	2.40	0.57
1:A:163:ALA:O	1:A:165:ASP:N	2.37	0.57
1:A:225:LEU:CD1	1:A:233:PHE:CE2	2.81	0.57
1:A:316:LEU:O	1:A:319:LEU:N	2.35	0.57
1:A:535:ILE:O	1:A:535:ILE:HG22	2.04	0.57
2:B:257:LYS:HA	2:B:260:LEU:HD21	1.86	0.57
2:B:275:ARG:HE	2:B:275:ARG:CA	2.17	0.57
2:B:340:ILE:HG21	2:B:373:LEU:HG	1.87	0.57
2:B:451:MET:CE	2:B:489:ILE:HG12	2.34	0.57
3:M:96:ILE:HD12	3:M:125:PHE:HA	1.86	0.57
3:M:104:PHE:HD1	3:M:117:ASN:ND2	2.02	0.57
3:M:235:LEU:HD22	3:M:307:SER:HA	1.86	0.57
3:M:336:ASP:CG	3:M:415:ILE:O	2.44	0.57
4:S:15:ARG:HH11	4:S:122:ILE:HD11	1.57	0.57
4:S:55:PRO:HD3	4:S:71:GLU:HA	1.87	0.57
1:A:88:ASN:CG	1:A:120:ILE:HG21	2.29	0.57
2:B:50:LEU:HD21	2:B:61:ASP:HB2	1.86	0.57
2:B:98:LYS:HZ2	2:B:134:LEU:CA	2.17	0.57
2:B:151:ALA:HA	2:B:180:LEU:HG	1.82	0.57
2:B:208:ILE:HG21	2:B:240:LEU:HD11	1.87	0.57
2:B:336:ASN:HB2	2:B:339:PHE:CE1	2.39	0.57
2:B:453:TRP:HE3	2:B:453:TRP:HA	1.70	0.57
2:B:519:ALA:HB1	2:B:555:LEU:CD1	2.35	0.57
3:M:308:SER:O	3:M:312:GLN:N	2.33	0.57
1:A:170:LEU:HB2	1:A:202:LYS:HG2	1.86	0.57
1:A:213:SER:C	4:S:143:GLU:CD	2.72	0.57
1:A:421:PRO:CB	1:A:424:TYR:CD1	2.88	0.57
1:A:465:SER:H	2:B:1:MET:CG	2.15	0.57
1:A:563:CYS:HB3	1:A:621:LEU:CD1	2.23	0.57
1:A:601:VAL:O	1:A:602:GLU:C	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:20:ARG:CD	2:B:21:GLU:N	2.68	0.57
2:B:60:ARG:CD	2:B:96:LYS:HG2	2.25	0.57
2:B:245:GLN:CB	2:B:309:LEU:HD11	2.34	0.57
2:B:310:ILE:HG23	2:B:318:ILE:HG23	1.87	0.57
3:M:249:TYR:CE1	3:M:467:TYR:CZ	2.93	0.57
4:S:111:ARG:CB	4:S:150:VAL:CG2	2.83	0.57
1:A:67:LYS:N	4:S:165:SER:CB	2.44	0.56
1:A:253:ILE:CG1	1:A:281:LEU:HB3	2.34	0.56
1:A:588:LEU:O	1:A:589:SER:C	2.42	0.56
2:B:80:GLN:HG3	2:B:115:LEU:HD21	1.87	0.56
2:B:143:SER:CB	2:B:179:LYS:HB2	2.35	0.56
2:B:197:LYS:CD	2:B:283:TYR:CD2	2.88	0.56
2:B:387:ASP:HB3	2:B:391:ALA:HB3	1.86	0.56
3:M:82:LYS:O	3:M:83:SER:C	2.48	0.56
3:M:241:HIS:HB2	3:M:476:THR:HG22	1.84	0.56
3:M:302:TYR:CE2	3:M:304:VAL:HB	2.40	0.56
3:M:327:PHE:HE1	3:M:336:ASP:OD2	1.88	0.56
4:S:50:PHE:HB3	4:S:76:ILE:HA	1.86	0.56
4:S:93:GLU:HA	4:S:93:GLU:OE1	2.04	0.56
1:A:274:LEU:O	1:A:275:LEU:C	2.37	0.56
2:B:24:ALA:CB	2:B:35:TYR:CD1	2.84	0.56
2:B:174:ALA:C	2:B:214:ALA:CB	2.77	0.56
2:B:278:PRO:CB	2:B:292:GLU:OE1	2.52	0.56
2:B:498:THR:HG22	2:B:532:ARG:HB2	1.86	0.56
3:M:432:THR:HG23	3:M:432:THR:O	2.03	0.56
1:A:158:LEU:HG	1:A:162:ILE:HD11	1.86	0.56
1:A:166:LEU:O	1:A:170:LEU:HD22	2.05	0.56
1:A:186:PHE:CD1	1:A:224:GLU:CG	2.88	0.56
1:A:384:LEU:HG	1:A:385:LYS:H	1.70	0.56
1:A:404:GLN:OE1	2:B:7:ARG:CZ	2.53	0.56
1:A:523:SER:OG	1:A:562:TRP:CD1	2.57	0.56
2:B:86:VAL:HG13	2:B:101:ILE:CG1	2.29	0.56
2:B:123:LEU:O	2:B:127:LEU:HD12	2.04	0.56
2:B:140:SER:N	2:B:172:GLU:OE1	2.37	0.56
2:B:181:TYR:CE2	2:B:218:CYS:O	2.52	0.56
2:B:220:ALA:HA	2:B:258:GLN:HB3	1.88	0.56
2:B:307:ASN:CG	2:B:339:PHE:CE2	2.82	0.56
2:B:436:LEU:HD12	2:B:454:LEU:HD21	1.87	0.56
2:B:461:HIS:O	2:B:463:LEU:N	2.35	0.56
2:B:468:LEU:O	2:B:472:VAL:HG23	2.06	0.56
3:M:44:ASP:C	3:M:46:SER:H	2.13	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:66:PHE:HB3	3:M:77:LEU:HD13	1.83	0.56
3:M:96:ILE:CD1	3:M:125:PHE:HA	2.35	0.56
3:M:222:PHE:CE1	3:M:439:TYR:CE1	2.93	0.56
3:M:373:ALA:O	3:M:418:GLU:O	2.24	0.56
4:S:58:LEU:O	4:S:59:LEU:HB3	2.04	0.56
1:A:170:LEU:CB	1:A:206:LYS:HG3	2.34	0.56
1:A:214:VAL:N	4:S:143:GLU:OE1	2.39	0.56
1:A:477:PHE:HE2	1:A:481:MET:SD	2.29	0.56
2:B:37:TYR:HE2	2:B:38:TYR:HE1	1.35	0.56
2:B:278:PRO:CA	2:B:288:TYR:HB3	2.25	0.56
2:B:352:ASN:ND2	2:B:352:ASN:H	2.02	0.56
2:B:556:LEU:HD23	2:B:588:ILE:HD11	1.88	0.56
3:M:222:PHE:CE1	3:M:240:ILE:HG23	2.28	0.56
3:M:428:VAL:O	3:M:430:LEU:N	2.39	0.56
4:S:17:VAL:CG2	4:S:19:PHE:CE1	2.81	0.56
2:B:50:LEU:HD23	2:B:62:ALA:CB	2.35	0.56
2:B:98:LYS:CD	2:B:138:ALA:HB2	2.31	0.56
2:B:123:LEU:C	2:B:127:LEU:HD12	2.30	0.56
2:B:165:PRO:C	2:B:170:ARG:HE	2.12	0.56
2:B:247:TYR:OH	3:M:91:THR:CG2	2.53	0.56
3:M:100:LEU:C	3:M:109:LEU:HD21	2.30	0.56
3:M:360:LEU:HD21	3:M:362:PHE:HE2	1.66	0.56
3:M:372:ILE:HD13	3:M:424:PHE:CE1	2.40	0.56
1:A:67:LYS:CB	4:S:166:LYS:N	2.69	0.56
1:A:101:GLN:CG	4:S:167:ILE:CG2	2.53	0.56
1:A:179:LYS:HE3	4:S:143:GLU:CA	2.33	0.56
1:A:397:ASP:O	1:A:418:ILE:CD1	2.53	0.56
1:A:481:MET:CE	1:A:518:CYS:HB3	2.36	0.56
2:B:112:ASP:C	2:B:112:ASP:OD1	2.49	0.56
2:B:208:ILE:O	2:B:209:SER:C	2.48	0.56
2:B:537:PHE:C	2:B:539:ASN:N	2.62	0.56
3:M:5:PHE:HB2	3:M:125:PHE:CD2	2.40	0.56
1:A:208:ASP:OD1	1:A:239:LEU:HD22	2.05	0.56
1:A:401:VAL:HG21	1:A:418:ILE:H	1.64	0.56
1:A:481:MET:SD	1:A:518:CYS:SG	3.04	0.56
1:A:505:ASN:O	1:A:506:LYS:C	2.43	0.56
1:A:556:VAL:HG21	1:A:603:VAL:CG1	2.36	0.56
2:B:81:LEU:C	2:B:83:PHE:H	2.13	0.56
2:B:102:HIS:O	2:B:103:LEU:O	2.24	0.56
2:B:108:PHE:CE2	2:B:112:ASP:HB3	2.41	0.56
2:B:175:LEU:HD21	2:B:210:CYS:CB	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:215:TYR:CG	2:B:226:LEU:CD1	2.88	0.56
2:B:277:CYS:HA	2:B:292:GLU:CA	2.34	0.56
2:B:560:ILE:CA	2:B:564:LYS:H	2.17	0.56
2:B:585:GLY:O	2:B:589:SER:N	2.29	0.56
3:M:67:SER:CB	3:M:90:PHE:HB2	2.34	0.56
3:M:348:LYS:CG	3:M:405:THR:HG22	2.23	0.56
1:A:97:SER:O	1:A:98:ASN:C	2.37	0.56
1:A:186:PHE:CZ	1:A:224:GLU:HG2	2.40	0.56
1:A:215:VAL:HG22	1:A:243:ILE:HG13	1.87	0.56
1:A:399:ASP:C	1:A:420:ILE:HB	2.26	0.56
1:A:401:VAL:HG23	1:A:418:ILE:CA	2.36	0.56
1:A:403:LEU:HD21	1:A:421:PRO:CA	2.28	0.56
2:B:173:VAL:CG1	2:B:199:LEU:HD11	2.36	0.56
2:B:275:ARG:HA	2:B:275:ARG:HE	1.70	0.56
2:B:388:PRO:O	2:B:391:ALA:HB3	2.05	0.56
2:B:560:ILE:HA	2:B:563:PHE:HB2	1.88	0.56
3:M:49:ASP:CA	3:M:75:TRP:HH2	1.96	0.56
3:M:338:PHE:CE2	3:M:415:ILE:CD1	2.89	0.56
4:S:53:THR:CB	4:S:68:VAL:CA	2.84	0.56
1:A:225:LEU:HB3	1:A:233:PHE:HE1	1.66	0.56
1:A:384:LEU:CG	1:A:385:LYS:N	2.68	0.56
2:B:178:ILE:CG1	2:B:215:TYR:CA	2.78	0.56
2:B:189:HIS:NE2	2:B:193:LEU:CD1	2.61	0.56
2:B:189:HIS:CD2	2:B:222:HIS:CB	2.87	0.56
2:B:226:LEU:HG	2:B:255:TYR:CE2	2.40	0.56
2:B:227:HIS:CG	2:B:292:GLU:CD	2.84	0.56
2:B:245:GLN:HG2	2:B:309:LEU:HD11	1.84	0.56
2:B:350:THR:CG2	2:B:352:ASN:HD21	2.18	0.56
2:B:374:PHE:HD2	2:B:402:LEU:HD21	1.71	0.56
2:B:578:PRO:HB3	2:B:579:PRO:CD	2.33	0.56
3:M:4:SER:O	3:M:79:SER:N	2.39	0.56
3:M:18:TYR:CE2	3:M:20:LEU:CD2	2.86	0.56
3:M:105:ASP:O	3:M:106:LYS:HB3	2.04	0.56
3:M:212:ASN:HB3	3:M:250:LEU:CD2	2.31	0.56
3:M:223:HIS:C	3:M:479:PHE:CG	2.83	0.56
3:M:403:THR:CG2	3:M:407:THR:HG1	2.19	0.56
4:S:50:PHE:HA	4:S:75:ILE:O	2.06	0.56
4:S:68:VAL:O	4:S:75:ILE:HD12	2.06	0.56
1:A:88:ASN:HB3	1:A:120:ILE:HG23	1.87	0.56
1:A:107:TYR:CD1	1:A:146:ALA:HA	2.41	0.56
1:A:162:ILE:O	1:A:165:ASP:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:167:PHE:CD1	1:A:202:LYS:HB2	2.41	0.56
1:A:178:ARG:HB2	1:A:214:VAL:CG2	2.35	0.56
1:A:179:LYS:HZ1	4:S:149:ILE:HG12	1.70	0.56
1:A:522:PHE:C	1:A:524:THR:N	2.60	0.56
2:B:483:PRO:HA	2:B:486:HIS:HB2	1.88	0.56
2:B:519:ALA:O	2:B:523:PHE:N	2.39	0.56
3:M:223:HIS:HB3	3:M:479:PHE:N	2.21	0.56
1:A:155:THR:O	1:A:158:LEU:HB3	2.06	0.55
1:A:261:THR:O	1:A:264:SER:OG	2.17	0.55
1:A:281:LEU:O	1:A:282:MET:C	2.36	0.55
1:A:295:VAL:HG11	1:A:337:LEU:HD13	1.88	0.55
2:B:172:GLU:O	2:B:174:ALA:N	2.38	0.55
2:B:174:ALA:HB3	2:B:211:ALA:HB2	1.88	0.55
2:B:215:TYR:CD2	2:B:219:TYR:CE1	2.79	0.55
2:B:307:ASN:HD22	2:B:336:ASN:HD21	1.43	0.55
2:B:340:ILE:HG13	2:B:373:LEU:CG	2.36	0.55
3:M:101:LEU:HD13	3:M:109:LEU:HD13	1.88	0.55
3:M:220:GLU:CD	3:M:222:PHE:CE1	2.85	0.55
3:M:262:THR:HG23	3:M:267:ILE:HG12	1.87	0.55
3:M:437:TYR:HD1	3:M:437:TYR:H	1.51	0.55
1:A:101:GLN:CD	4:S:167:ILE:CG2	2.77	0.55
2:B:512:VAL:HB	2:B:551:LEU:CD1	2.34	0.55
3:M:16:PHE:CE2	3:M:125:PHE:CE2	2.94	0.55
3:M:18:TYR:OH	3:M:126:ASN:HB2	2.05	0.55
3:M:216:VAL:HB	3:M:472:TYR:OH	2.06	0.55
3:M:224:VAL:C	3:M:480:GLN:H	2.07	0.55
3:M:244:VAL:O	3:M:299:LEU:HB3	2.06	0.55
3:M:272:LEU:HD22	3:M:278:ILE:CG2	2.35	0.55
1:A:99:LYS:HG2	1:A:101:GLN:N	2.21	0.55
1:A:283:GLU:OE1	1:A:318:ARG:NH2	2.38	0.55
1:A:420:ILE:C	1:A:421:PRO:O	2.48	0.55
1:A:566:PHE:C	1:A:568:GLU:N	2.59	0.55
2:B:10:SER:O	2:B:13:ASP:N	2.38	0.55
2:B:50:LEU:CG	2:B:58:GLU:O	2.51	0.55
2:B:139:LEU:HD22	2:B:173:VAL:HG13	1.89	0.55
2:B:267:ASP:CA	2:B:289:PRO:CG	2.84	0.55
3:M:300:LEU:O	3:M:300:LEU:HD12	2.07	0.55
1:A:114:PHE:CD2	1:A:153:ILE:HG12	2.42	0.55
1:A:215:VAL:CG2	1:A:243:ILE:CG1	2.79	0.55
1:A:516:ILE:HG21	1:A:551:LEU:HA	1.88	0.55
2:B:108:PHE:CE2	2:B:115:LEU:CD2	2.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:116:THR:HG22	2:B:150:LEU:CG	2.36	0.55
2:B:120:ILE:HG13	2:B:150:LEU:CB	2.32	0.55
2:B:430:ILE:O	2:B:433:VAL:HB	2.07	0.55
3:M:253:ASN:N	3:M:254:PRO:CD	2.70	0.55
4:S:89:VAL:CG1	4:S:98:ILE:CG2	2.76	0.55
1:A:185:LEU:O	1:A:189:PHE:CD2	2.59	0.55
1:A:279:LEU:HA	1:A:282:MET:HG2	1.89	0.55
1:A:301:GLY:O	1:A:302:ASN:CB	2.52	0.55
1:A:606:PHE:CD2	1:A:629:LEU:HG	2.41	0.55
2:B:155:LEU:HD13	2:B:155:LEU:C	2.31	0.55
2:B:159:LYS:CD	2:B:191:GLU:OE1	2.55	0.55
2:B:225:LEU:HD11	2:B:283:TYR:CE1	2.39	0.55
3:M:65:TYR:CG	3:M:86:PRO:CB	2.89	0.55
3:M:215:TYR:O	3:M:246:VAL:CG1	2.55	0.55
3:M:300:LEU:HD12	3:M:300:LEU:C	2.31	0.55
3:M:348:LYS:HA	3:M:405:THR:C	2.32	0.55
3:M:443:SER:OG	3:M:447:ILE:HG13	2.05	0.55
1:A:96:SER:HB3	1:A:127:LEU:CG	2.37	0.55
1:A:103:LYS:C	1:A:107:TYR:CE1	2.85	0.55
1:A:136:GLY:O	1:A:139:ASP:CA	2.55	0.55
1:A:606:PHE:HB3	1:A:629:LEU:HD12	1.88	0.55
2:B:177:ILE:HD13	2:B:196:LEU:CG	2.34	0.55
2:B:219:TYR:OH	2:B:225:LEU:C	2.47	0.55
2:B:331:PRO:C	2:B:333:GLN:H	2.14	0.55
2:B:453:TRP:HA	2:B:453:TRP:CE3	2.40	0.55
3:M:1:MET:C	3:M:81:SER:OG	2.50	0.55
3:M:101:LEU:HD12	3:M:109:LEU:HD12	1.88	0.55
3:M:217:ASP:CB	3:M:471:LYS:CA	2.85	0.55
3:M:262:THR:HG22	3:M:264:GLY:HA2	1.88	0.55
3:M:327:PHE:CD2	3:M:430:LEU:HD22	2.41	0.55
3:M:358:ILE:HB	3:M:397:TRP:HE3	1.70	0.55
4:S:75:ILE:HG23	4:S:86:THR:CG2	2.36	0.55
1:A:83:ASP:CG	1:A:85:ALA:H	2.14	0.55
1:A:575:LYS:HE3	1:A:611:LEU:CD2	2.35	0.55
1:A:586:GLU:CB	1:A:604:LEU:CD1	2.84	0.55
2:B:127:LEU:C	2:B:161:LEU:HD11	2.31	0.55
2:B:175:LEU:HD11	2:B:210:CYS:CB	2.37	0.55
3:M:124:ILE:HG23	3:M:128:CYS:SG	2.47	0.55
3:M:376:ILE:CD1	3:M:415:ILE:HG12	2.37	0.55
4:S:21:THR:HB	4:S:22:PRO:CD	2.33	0.55
1:A:118:SER:O	1:A:122:MET:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:ILE:HD13	1:A:218:ALA:CA	2.36	0.55
1:A:398:GLU:O	1:A:420:ILE:CB	2.55	0.55
1:A:429:VAL:HG11	1:A:469:LEU:CD1	2.36	0.55
1:A:624:LEU:O	2:B:617:LEU:CD1	2.54	0.55
2:B:60:ARG:O	2:B:63:MET:N	2.34	0.55
2:B:83:PHE:HE2	2:B:119:SER:N	2.03	0.55
2:B:158:VAL:HG12	2:B:195:ILE:HD13	1.87	0.55
2:B:159:LYS:N	2:B:195:ILE:HD13	2.22	0.55
2:B:323:ASN:O	2:B:327:GLN:HG2	2.07	0.55
2:B:371:GLN:C	2:B:373:LEU:H	2.15	0.55
3:M:2:TYR:OH	3:M:62:VAL:CG1	2.55	0.55
3:M:16:PHE:CE2	3:M:18:TYR:HB2	2.41	0.55
3:M:331:LEU:HD22	3:M:426:LYS:NZ	2.22	0.55
4:S:9:ASN:ND2	4:S:13:GLN:HG2	2.17	0.55
4:S:9:ASN:CG	4:S:13:GLN:CB	2.79	0.55
4:S:70:ASN:CG	4:S:73:ILE:HD12	2.31	0.55
1:A:451:ASN:OD1	1:A:480:LEU:CD1	2.55	0.55
2:B:450:VAL:O	2:B:453:TRP:HB2	2.07	0.55
2:B:546:CYS:N	2:B:607:ILE:CG2	2.70	0.55
3:M:100:LEU:HD22	3:M:101:LEU:H	1.71	0.55
3:M:220:GLU:CD	3:M:222:PHE:CZ	2.85	0.55
3:M:222:PHE:CE2	3:M:439:TYR:CE1	2.94	0.55
3:M:222:PHE:HA	3:M:240:ILE:HA	1.88	0.55
3:M:223:HIS:N	3:M:479:PHE:CZ	2.74	0.55
3:M:242:GLY:CA	3:M:474:THR:HG21	2.27	0.55
4:S:50:PHE:CA	4:S:75:ILE:O	2.55	0.55
1:A:105:VAL:HG21	4:S:167:ILE:O	2.07	0.55
1:A:401:VAL:HG21	1:A:418:ILE:N	2.21	0.55
1:A:495:ILE:CG2	1:A:515:CYS:HB3	2.37	0.55
1:A:537:THR:HB	1:A:584:PHE:CZ	2.41	0.55
1:A:566:PHE:C	1:A:566:PHE:CD1	2.83	0.55
1:A:582:ILE:CG1	1:A:607:LEU:HB2	2.37	0.55
1:A:606:PHE:CZ	2:B:550:VAL:HG13	2.40	0.55
2:B:226:LEU:HD12	2:B:226:LEU:O	2.07	0.55
2:B:277:CYS:CA	2:B:292:GLU:CG	2.80	0.55
2:B:392:SER:HB3	2:B:424:PHE:HE2	1.71	0.55
2:B:577:ASN:C	2:B:578:PRO:O	2.49	0.55
3:M:101:LEU:HD13	3:M:109:LEU:CD1	2.36	0.55
3:M:224:VAL:O	3:M:479:PHE:C	2.49	0.55
3:M:443:SER:HA	3:M:447:ILE:HG13	1.89	0.55
4:S:1:MET:H2	4:S:93:GLU:CD	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:54:PRO:CA	4:S:57:LEU:HD13	2.37	0.55
2:B:70:MET:HB2	2:B:104:TYR:HE1	1.69	0.54
2:B:120:ILE:CD1	2:B:142:LEU:HD22	2.34	0.54
2:B:132:SER:CB	2:B:169:VAL:CG2	2.85	0.54
2:B:177:ILE:CD1	2:B:196:LEU:HG	2.33	0.54
2:B:193:LEU:O	2:B:195:ILE:CA	2.49	0.54
2:B:249:ILE:HD13	2:B:320:SER:HB2	1.87	0.54
2:B:306:LEU:CD1	2:B:325:LEU:CD2	2.85	0.54
2:B:418:TYR:HD1	2:B:424:PHE:CD1	2.22	0.54
2:B:534:ILE:CG1	2:B:595:VAL:HG23	2.37	0.54
3:M:262:THR:C	3:M:264:GLY:N	2.55	0.54
4:S:134:GLU:O	4:S:137:GLN:HG2	2.07	0.54
1:A:78:GLU:C	1:A:80:TYR:O	2.50	0.54
1:A:105:VAL:CB	4:S:167:ILE:HA	2.37	0.54
1:A:151:SER:CB	1:A:187:LYS:CB	2.74	0.54
1:A:332:TYR:CE1	1:A:336:ILE:HD11	2.40	0.54
1:A:506:LYS:O	1:A:507:GLN:HB2	2.07	0.54
1:A:594:PHE:HD2	2:B:474:VAL:CG2	2.20	0.54
1:A:637:GLU:HG3	2:B:515:PHE:CA	2.37	0.54
2:B:90:ILE:CG1	2:B:98:LYS:CD	2.85	0.54
2:B:316:THR:CB	3:M:90:PHE:CZ	2.90	0.54
2:B:340:ILE:HG21	2:B:373:LEU:O	2.07	0.54
2:B:589:SER:HA	2:B:618:PHE:CE2	2.42	0.54
4:S:89:VAL:HG11	4:S:98:ILE:HG23	1.87	0.54
4:S:131:VAL:HG22	4:S:153:VAL:CG2	2.26	0.54
1:A:92:LEU:HD22	1:A:124:ALA:N	2.23	0.54
1:A:163:ALA:HA	1:A:199:ASN:HD21	1.72	0.54
1:A:185:LEU:HD22	1:A:189:PHE:CE1	2.43	0.54
1:A:396:VAL:O	1:A:396:VAL:HG12	2.05	0.54
2:B:248:LEU:O	2:B:252:LEU:CG	2.45	0.54
2:B:449:HIS:O	2:B:453:TRP:CG	2.60	0.54
3:M:101:LEU:CD1	3:M:109:LEU:HD12	2.36	0.54
1:A:101:GLN:O	4:S:167:ILE:HD11	2.08	0.54
1:A:320:HIS:ND1	1:A:352:PHE:CD2	2.76	0.54
1:A:606:PHE:O	1:A:609:LEU:HB3	2.07	0.54
2:B:18:ILE:H	2:B:18:ILE:HD13	1.70	0.54
2:B:28:SER:N	2:B:32:GLU:OE1	2.41	0.54
2:B:155:LEU:CD1	2:B:156:HIS:N	2.70	0.54
2:B:174:ALA:O	2:B:175:LEU:O	2.26	0.54
2:B:247:TYR:OH	3:M:91:THR:HB	2.08	0.54
2:B:415:LEU:O	2:B:418:TYR:N	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:592:TYR:CG	2:B:593:ASN:N	2.75	0.54
3:M:250:LEU:CD1	3:M:254:PRO:HB2	2.38	0.54
3:M:380:ARG:NH1	3:M:412:ARG:HH11	2.05	0.54
4:S:25:LEU:O	4:S:28:GLN:HG3	2.08	0.54
1:A:170:LEU:HD12	1:A:206:LYS:CG	2.29	0.54
1:A:178:ARG:HH11	1:A:209:ASP:CB	2.10	0.54
1:A:182:ILE:HG21	1:A:218:ALA:N	2.22	0.54
1:A:418:ILE:O	1:A:418:ILE:HG12	2.05	0.54
2:B:127:LEU:CD2	2:B:157:THR:CG2	2.86	0.54
2:B:362:ALA:HB1	2:B:366:LEU:CD1	2.38	0.54
2:B:418:TYR:CE1	2:B:419:VAL:HA	2.41	0.54
2:B:505:ASP:OD1	2:B:541:GLY:HA3	2.08	0.54
3:M:115:VAL:O	3:M:116:ASN:C	2.46	0.54
3:M:218:LEU:CG	3:M:472:TYR:HE2	2.16	0.54
4:S:54:PRO:CB	4:S:57:LEU:HD13	2.37	0.54
1:A:129:LYS:CD	1:A:161:ASP:HB3	2.38	0.54
1:A:513:ARG:CB	1:A:550:VAL:HG11	2.37	0.54
2:B:105:LEU:O	2:B:106:LEU:O	2.26	0.54
2:B:143:SER:HA	2:B:179:LYS:CB	2.32	0.54
2:B:144:ASP:CA	2:B:179:LYS:CD	2.84	0.54
2:B:451:MET:HG3	2:B:489:ILE:HG12	1.90	0.54
2:B:483:PRO:HA	2:B:486:HIS:CB	2.38	0.54
2:B:534:ILE:CD1	2:B:595:VAL:HG23	2.38	0.54
2:B:562:ASN:OD1	2:B:580:TYR:HB2	2.06	0.54
3:M:16:PHE:HE1	3:M:122:SER:HB2	1.71	0.54
3:M:65:TYR:CD2	3:M:86:PRO:CB	2.88	0.54
3:M:476:THR:OG1	3:M:477:GLY:N	2.34	0.54
1:A:68:THR:CA	4:S:166:LYS:C	2.65	0.54
1:A:100:LEU:HG	4:S:162:SER:N	2.18	0.54
1:A:150:LEU:CD2	1:A:158:LEU:HD11	2.37	0.54
1:A:428:MET:O	1:A:431:VAL:HB	2.07	0.54
1:A:495:ILE:HG23	1:A:515:CYS:HB3	1.89	0.54
2:B:143:SER:C	2:B:145:MET:H	2.14	0.54
2:B:178:ILE:CB	2:B:214:ALA:CB	2.84	0.54
2:B:451:MET:HG3	2:B:489:ILE:CG1	2.37	0.54
3:M:225:VAL:HG22	3:M:480:GLN:CB	2.38	0.54
3:M:244:VAL:C	3:M:472:TYR:CD2	2.81	0.54
1:A:132:LEU:HD23	1:A:169:MET:SD	2.47	0.54
1:A:524:THR:HG21	1:A:565:ASN:ND2	2.22	0.54
1:A:586:GLU:CA	1:A:604:LEU:HD12	2.38	0.54
1:A:636:TYR:N	2:B:554:LYS:CD	2.63	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:638:LEU:O	2:B:518:ILE:HD12	2.08	0.54
2:B:117:LEU:CD2	2:B:149:SER:HG	2.07	0.54
2:B:121:ASN:O	2:B:124:GLN:CB	2.56	0.54
2:B:237:ILE:HG13	2:B:245:GLN:HG2	1.90	0.54
2:B:366:LEU:O	2:B:367:SER:O	2.25	0.54
2:B:397:GLN:NE2	2:B:431:MET:SD	2.81	0.54
2:B:418:TYR:CZ	2:B:432:ALA:HB2	2.30	0.54
2:B:455:ILE:O	2:B:459:GLU:N	2.31	0.54
3:M:10:THR:CA	3:M:75:TRP:HE1	2.20	0.54
3:M:101:LEU:HD11	3:M:108:LYS:N	2.23	0.54
3:M:245:ASP:C	3:M:246:VAL:CG2	2.81	0.54
4:S:56:SER:O	4:S:60:SER:HB3	1.98	0.54
1:A:102:GLN:O	4:S:167:ILE:CD1	2.56	0.54
1:A:105:VAL:HG22	4:S:167:ILE:HG23	1.81	0.54
1:A:143:VAL:CG1	1:A:169:MET:HB3	2.36	0.54
1:A:440:ASN:CB	1:A:442:SER:HB3	2.37	0.54
1:A:609:LEU:CG	1:A:628:VAL:CG1	2.85	0.54
2:B:120:ILE:HG22	2:B:153:ILE:CB	2.38	0.54
2:B:335:LYS:O	2:B:335:LYS:HG2	2.08	0.54
2:B:553:ALA:HB2	2:B:614:ILE:CG2	2.38	0.54
3:M:257:ALA:CB	3:M:455:VAL:CG2	2.85	0.54
3:M:271:SER:HB3	3:M:301:GLU:CG	2.37	0.54
3:M:293:PRO:CA	3:M:294:ASP:O	2.55	0.54
3:M:316:ARG:CG	3:M:322:LEU:HD13	2.37	0.54
3:M:317:MET:HB2	3:M:322:LEU:HB2	1.89	0.54
4:S:12:CYS:HB3	4:S:36:TYR:HB3	1.89	0.54
4:S:14:PRO:HA	4:S:36:TYR:CZ	2.36	0.54
4:S:136:VAL:O	4:S:140:MET:N	2.41	0.54
1:A:64:LEU:HB3	1:A:102:GLN:HE21	1.71	0.54
1:A:65:ASN:C	4:S:165:SER:HA	2.33	0.54
1:A:104:ARG:CG	4:S:126:GLN:OE1	2.47	0.54
1:A:288:THR:CB	1:A:291:ILE:HD13	2.37	0.54
1:A:322:PHE:HB3	1:A:330:LEU:CD2	2.38	0.54
2:B:18:ILE:O	2:B:23:ALA:HB3	2.07	0.54
2:B:155:LEU:CB	2:B:188:TYR:CD2	2.79	0.54
2:B:275:ARG:CB	2:B:291:TYR:HB3	2.13	0.54
2:B:498:THR:CG2	2:B:532:ARG:CB	2.86	0.54
2:B:562:ASN:CG	2:B:580:TYR:HB3	2.28	0.54
3:M:225:VAL:C	3:M:480:GLN:O	2.50	0.54
3:M:243:ILE:HG13	3:M:473:LYS:O	2.07	0.54
3:M:372:ILE:O	3:M:372:ILE:HG22	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:254:ILE:O	1:A:257:LEU:HB2	2.09	0.53
1:A:384:LEU:CD1	1:A:435:ILE:CG2	2.74	0.53
1:A:384:LEU:CG	1:A:441:TYR:CE2	2.85	0.53
1:A:488:ARG:HD2	1:A:522:PHE:CG	2.43	0.53
2:B:124:GLN:OE1	2:B:153:ILE:HG23	2.07	0.53
2:B:158:VAL:HG12	2:B:195:ILE:CG2	2.27	0.53
2:B:275:ARG:HG3	2:B:294:VAL:CB	2.37	0.53
2:B:302:PHE:CE2	2:B:328:LEU:HD11	2.44	0.53
2:B:559:ASP:O	2:B:562:ASN:N	2.41	0.53
2:B:562:ASN:ND2	2:B:580:TYR:CG	2.77	0.53
3:M:272:LEU:N	3:M:272:LEU:HD12	2.23	0.53
3:M:353:VAL:HG13	3:M:353:VAL:O	2.08	0.53
4:S:53:THR:OG1	4:S:68:VAL:N	2.40	0.53
1:A:304:LEU:HD22	1:A:344:ILE:CG2	2.36	0.53
1:A:356:ILE:O	1:A:359:LEU:N	2.37	0.53
1:A:356:ILE:HD13	1:A:374:LEU:HB3	1.89	0.53
2:B:185:LYS:HA	2:B:222:HIS:NE2	2.23	0.53
2:B:243:TRP:CH2	3:M:95:THR:N	2.76	0.53
2:B:302:PHE:O	2:B:306:LEU:HG	2.08	0.53
2:B:433:VAL:HG22	2:B:471:TYR:CE2	2.42	0.53
2:B:505:ASP:CA	2:B:544:THR:OG1	2.55	0.53
4:S:1:MET:N	4:S:93:GLU:OE1	2.41	0.53
1:A:494:ASN:O	1:A:498:LEU:HG	2.08	0.53
2:B:95:THR:OG1	2:B:133:GLU:OE1	2.24	0.53
2:B:143:SER:C	2:B:145:MET:N	2.66	0.53
2:B:189:HIS:HB2	2:B:222:HIS:CE1	2.43	0.53
2:B:231:ARG:C	2:B:233:TYR:N	2.65	0.53
2:B:237:ILE:CG2	2:B:305:SER:HB3	2.31	0.53
2:B:408:VAL:CG1	2:B:412:PHE:CD2	2.91	0.53
2:B:451:MET:HE2	2:B:489:ILE:HG12	1.89	0.53
2:B:512:VAL:CB	2:B:551:LEU:HD12	2.36	0.53
2:B:582:ASP:C	2:B:584:SER:N	2.65	0.53
2:B:596:LEU:HB2	2:B:615:SER:OG	2.08	0.53
3:M:215:TYR:CE2	3:M:469:GLY:N	2.67	0.53
4:S:69:ASN:CG	4:S:71:GLU:O	2.51	0.53
2:B:146:LYS:C	2:B:147:MET:CG	2.80	0.53
2:B:209:SER:HB2	2:B:244:SER:OG	2.08	0.53
2:B:352:ASN:HD22	2:B:352:ASN:N	1.99	0.53
2:B:363:ILE:CG2	2:B:398:ILE:CG1	2.85	0.53
3:M:67:SER:OG	3:M:90:PHE:HD1	1.31	0.53
3:M:74:TYR:CD1	3:M:76:CYS:SG	3.02	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:217:ASP:O	3:M:472:TYR:CD1	2.62	0.53
3:M:220:GLU:HG2	3:M:439:TYR:HB2	1.89	0.53
4:S:33:GLU:HA	4:S:36:TYR:HD1	1.73	0.53
4:S:53:THR:CG2	4:S:68:VAL:C	2.80	0.53
1:A:80:TYR:CD1	1:A:82:PHE:HE2	2.26	0.53
1:A:182:ILE:HG23	1:A:203:PHE:HE2	1.72	0.53
1:A:498:LEU:HB3	1:A:504:ILE:CG1	2.37	0.53
1:A:610:SER:HG	1:A:625:LEU:HD13	1.72	0.53
2:B:2:VAL:HA	2:B:5:ILE:HD12	1.90	0.53
2:B:296:ASP:OD1	2:B:297:PRO:N	2.41	0.53
2:B:520:SER:C	2:B:523:PHE:CD2	2.86	0.53
2:B:578:PRO:CB	2:B:579:PRO:HD3	2.29	0.53
2:B:586:SER:O	2:B:590:GLN:HG3	2.09	0.53
3:M:5:PHE:CB	3:M:125:PHE:HE2	2.21	0.53
3:M:276:VAL:HG22	3:M:299:LEU:HD12	1.90	0.53
3:M:354:ASP:CB	3:M:440:ILE:CD1	2.85	0.53
1:A:338:PHE:HE2	1:A:352:PHE:CE2	2.27	0.53
1:A:589:SER:HB3	1:A:601:VAL:HG22	1.91	0.53
2:B:182:ARG:N	2:B:218:CYS:HA	2.23	0.53
2:B:350:THR:CB	2:B:352:ASN:ND2	2.61	0.53
1:A:78:GLU:O	1:A:80:TYR:C	2.52	0.53
1:A:163:ALA:CB	1:A:199:ASN:ND2	2.62	0.53
1:A:171:ASN:OD1	1:A:202:LYS:NZ	2.38	0.53
1:A:252:ILE:CB	4:S:144:THR:OG1	2.54	0.53
1:A:304:LEU:C	1:A:304:LEU:HD23	2.34	0.53
1:A:384:LEU:C	1:A:384:LEU:HD12	2.34	0.53
1:A:401:VAL:HG22	1:A:418:ILE:H	1.69	0.53
1:A:408:ILE:CD1	1:A:410:TYR:CD1	2.90	0.53
1:A:585:PHE:CE2	1:A:603:VAL:HG11	2.44	0.53
2:B:83:PHE:CE1	2:B:105:LEU:HA	2.43	0.53
2:B:120:ILE:HG12	2:B:150:LEU:HD22	1.89	0.53
2:B:133:GLU:CA	2:B:168:MET:SD	2.96	0.53
2:B:136:CYS:CA	2:B:172:GLU:CB	2.86	0.53
2:B:184:GLY:O	2:B:188:TYR:CD1	2.62	0.53
2:B:281:ASP:C	2:B:283:TYR:N	2.64	0.53
2:B:523:PHE:CE1	2:B:580:TYR:CD2	2.58	0.53
3:M:99:ILE:HG22	3:M:103:TYR:CE1	2.44	0.53
3:M:276:VAL:HG21	3:M:299:LEU:HA	1.91	0.53
3:M:319:SER:CB	3:M:346:ASN:C	2.81	0.53
1:A:104:ARG:CB	1:A:145:ILE:HG13	2.39	0.53
1:A:104:ARG:HD3	1:A:145:ILE:HG13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:245:VAL:HG13	1:A:246:THR:HG23	1.90	0.53
1:A:416:ILE:O	1:A:417:PRO:C	2.40	0.53
1:A:609:LEU:CD2	1:A:628:VAL:CG1	2.85	0.53
1:A:637:GLU:HB2	2:B:513:TRP:CD1	2.43	0.53
2:B:108:PHE:CE2	2:B:115:LEU:HD23	2.44	0.53
2:B:136:CYS:O	2:B:139:LEU:N	2.40	0.53
2:B:151:ALA:N	2:B:152:PRO:CD	2.71	0.53
2:B:167:ALA:O	2:B:207:VAL:HG21	2.09	0.53
2:B:274:PRO:CD	2:B:295:ASN:CG	2.78	0.53
2:B:523:PHE:CE1	2:B:582:ASP:OD1	2.62	0.53
2:B:594:ALA:O	2:B:598:LEU:HG	2.07	0.53
3:M:74:TYR:CB	3:M:114:ILE:HD11	2.37	0.53
3:M:258:VAL:HG13	3:M:449:VAL:CG1	2.39	0.53
3:M:293:PRO:CB	3:M:294:ASP:O	2.55	0.53
4:S:55:PRO:C	4:S:57:LEU:N	2.59	0.53
1:A:204:VAL:HG13	1:A:239:LEU:CD1	2.39	0.53
1:A:435:ILE:HG23	1:A:441:TYR:CE2	2.44	0.53
1:A:523:SER:HG	1:A:562:TRP:CD1	2.26	0.53
2:B:38:TYR:CD1	2:B:38:TYR:N	2.76	0.53
2:B:126:SER:O	2:B:127:LEU:C	2.49	0.53
2:B:189:HIS:HB2	2:B:222:HIS:CD2	2.43	0.53
2:B:189:HIS:CG	2:B:222:HIS:CG	2.96	0.53
2:B:464:SER:OG	2:B:467:VAL:HG23	2.08	0.53
3:M:7:ILE:CG2	3:M:74:TYR:HB2	2.39	0.53
3:M:9:ASP:C	3:M:75:TRP:NE1	2.64	0.53
3:M:220:GLU:HA	3:M:474:THR:HG21	1.91	0.53
3:M:263:MET:HG2	3:M:263:MET:O	2.09	0.53
1:A:101:GLN:HG3	4:S:167:ILE:HG21	1.80	0.53
1:A:125:THR:HG21	1:A:158:LEU:HA	1.90	0.53
1:A:463:ASP:CA	2:B:1:MET:SD	2.96	0.53
1:A:581:LEU:CG	1:A:607:LEU:HD11	2.38	0.53
2:B:80:GLN:HG2	2:B:115:LEU:HD21	1.90	0.53
2:B:306:LEU:CB	2:B:325:LEU:HD21	2.38	0.53
2:B:433:VAL:C	2:B:474:VAL:HG21	2.33	0.53
2:B:560:ILE:N	2:B:563:PHE:HB2	2.24	0.53
3:M:215:TYR:HB2	3:M:467:TYR:CG	2.42	0.53
3:M:217:ASP:C	3:M:472:TYR:CZ	2.87	0.53
3:M:242:GLY:N	3:M:444:ALA:HB2	2.23	0.53
4:S:16:LEU:HD11	4:S:129:GLU:HG2	1.91	0.53
4:S:39:ILE:HD12	4:S:48:SER:HA	1.90	0.53
1:A:366:SER:O	1:A:370:LYS:CG	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:512:LEU:HD13	1:A:543:TYR:CE1	2.44	0.52
2:B:65:ARG:O	2:B:68:SER:N	2.34	0.52
2:B:87:VAL:HG22	2:B:119:SER:HA	1.89	0.52
2:B:100:LEU:O	2:B:103:LEU:HB2	2.10	0.52
2:B:132:SER:CA	2:B:169:VAL:HG23	2.38	0.52
2:B:155:LEU:HD21	2:B:192:LEU:H	1.75	0.52
2:B:196:LEU:HB3	2:B:215:TYR:HE2	1.62	0.52
2:B:277:CYS:SG	2:B:292:GLU:CD	2.91	0.52
2:B:400:SER:HA	2:B:439:CYS:SG	2.48	0.52
2:B:493:LEU:HD11	2:B:511:ILE:HG12	1.90	0.52
2:B:589:SER:C	2:B:591:MET:N	2.65	0.52
3:M:372:ILE:HD12	3:M:428:VAL:HG22	1.89	0.52
3:M:437:TYR:CE1	3:M:479:PHE:CD1	2.97	0.52
4:S:6:LEU:HD22	4:S:32:LEU:CD2	2.29	0.52
4:S:34:GLN:HB3	4:S:58:LEU:HD11	1.89	0.52
1:A:103:LYS:CB	1:A:107:TYR:CE1	2.87	0.52
1:A:446:ASP:C	1:A:448:GLU:O	2.52	0.52
1:A:557:LYS:HD3	2:B:605:PHE:CD2	2.44	0.52
2:B:42:ILE:HG22	2:B:43:ASN:N	2.24	0.52
2:B:157:THR:HG22	2:B:158:VAL:N	2.24	0.52
4:S:76:ILE:O	4:S:86:THR:HA	2.09	0.52
1:A:140:VAL:HG13	1:A:176:TYR:HB3	1.86	0.52
1:A:204:VAL:HG23	1:A:236:LEU:HD21	1.80	0.52
1:A:309:PHE:CE1	1:A:348:PHE:CE2	2.97	0.52
1:A:400:VAL:HA	1:A:403:LEU:HD12	1.90	0.52
1:A:536:MET:O	1:A:537:THR:O	2.24	0.52
2:B:36:THR:O	2:B:40:GLN:HG3	2.08	0.52
2:B:36:THR:CA	2:B:39:SER:OG	2.57	0.52
2:B:136:CYS:HB3	2:B:172:GLU:CG	2.39	0.52
2:B:137:PHE:CZ	2:B:168:MET:HE3	2.44	0.52
2:B:352:ASN:ND2	2:B:352:ASN:O	2.43	0.52
2:B:461:HIS:CB	2:B:463:LEU:HD23	2.39	0.52
2:B:519:ALA:CB	2:B:555:LEU:CD1	2.88	0.52
2:B:522:GLU:C	2:B:524:LYS:N	2.67	0.52
2:B:546:CYS:O	2:B:549:LEU:HB3	2.09	0.52
3:M:267:ILE:CD1	3:M:445:SER:O	2.57	0.52
4:S:9:ASN:OD1	4:S:13:GLN:CB	2.57	0.52
4:S:47:GLN:NE2	4:S:78:LYS:C	2.63	0.52
1:A:65:ASN:C	4:S:165:SER:CA	2.81	0.52
1:A:104:ARG:CB	1:A:145:ILE:HG21	2.37	0.52
1:A:244:LEU:HD11	1:A:281:LEU:HD13	1.88	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:123:LEU:HD23	2:B:138:ALA:HB1	1.91	0.52
2:B:132:SER:HB2	2:B:169:VAL:CG2	2.38	0.52
2:B:143:SER:HB2	2:B:179:LYS:HB2	1.91	0.52
2:B:170:ARG:CG	2:B:199:LEU:HD23	2.34	0.52
2:B:184:GLY:O	2:B:188:TYR:HD1	1.92	0.52
2:B:197:LYS:O	2:B:199:LEU:CA	2.56	0.52
2:B:256:CYS:O	2:B:260:LEU:HG	2.10	0.52
2:B:513:TRP:HA	2:B:551:LEU:HD13	1.60	0.52
2:B:542:PRO:HA	2:B:602:ASP:OD1	2.08	0.52
3:M:104:PHE:HD2	3:M:105:ASP:OD2	1.93	0.52
1:A:117:ASP:O	1:A:120:ILE:HB	2.09	0.52
1:A:251:TRP:CG	4:S:104:THR:OG1	2.53	0.52
1:A:581:LEU:HD23	1:A:607:LEU:HD13	1.92	0.52
1:A:589:SER:O	1:A:597:GLN:CG	2.45	0.52
1:A:605:GLU:CD	1:A:632:PHE:CE2	2.88	0.52
2:B:94:ASP:O	2:B:134:LEU:CD2	2.57	0.52
2:B:98:LYS:HG3	2:B:102:HIS:CE1	2.44	0.52
2:B:175:LEU:CD2	2:B:210:CYS:CB	2.87	0.52
2:B:219:TYR:HD1	2:B:226:LEU:HD13	1.54	0.52
2:B:275:ARG:NE	2:B:275:ARG:CA	2.73	0.52
2:B:404:ASN:O	2:B:405:GLU:O	2.24	0.52
2:B:440:GLY:C	2:B:442:LEU:N	2.61	0.52
2:B:542:PRO:CB	2:B:602:ASP:OD1	2.58	0.52
2:B:566:ALA:CB	2:B:581:TYR:HA	2.39	0.52
3:M:7:ILE:O	3:M:15:ILE:N	2.41	0.52
3:M:53:HIS:CB	3:M:65:TYR:CE1	2.93	0.52
1:A:100:LEU:H	4:S:162:SER:HB2	0.43	0.52
1:A:212:ILE:CG1	4:S:145:ASN:HD22	2.21	0.52
1:A:431:VAL:O	1:A:434:SER:HB2	2.09	0.52
1:A:463:ASP:HA	2:B:1:MET:SD	2.49	0.52
1:A:528:ASN:O	1:A:529:GLY:O	2.27	0.52
1:A:554:ALA:O	1:A:557:LYS:HB2	2.10	0.52
2:B:21:GLU:HA	2:B:24:ALA:HB3	1.39	0.52
2:B:62:ALA:CB	2:B:66:ILE:HD11	2.37	0.52
2:B:92:THR:O	2:B:134:LEU:CD1	2.58	0.52
2:B:155:LEU:C	2:B:157:THR:H	2.17	0.52
2:B:476:ARG:O	2:B:480:GLN:HG3	2.10	0.52
2:B:584:SER:O	2:B:585:GLY:O	2.27	0.52
3:M:7:ILE:CG1	3:M:76:CYS:SG	2.91	0.52
3:M:80:THR:O	3:M:81:SER:HB3	2.10	0.52
4:S:10:LYS:HD3	4:S:82:THR:HB	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:34:GLN:CD	4:S:58:LEU:CG	2.83	0.52
4:S:126:GLN:NE2	4:S:127:THR:OG1	2.42	0.52
1:A:348:PHE:HB3	1:A:352:PHE:HE1	1.74	0.52
1:A:426:ILE:HD13	1:A:466:ASP:OD2	2.09	0.52
1:A:630:PRO:O	2:B:554:LYS:CB	2.56	0.52
2:B:63:MET:CG	2:B:100:LEU:HB2	2.39	0.52
2:B:189:HIS:CD2	2:B:189:HIS:O	2.63	0.52
2:B:234:CYS:CB	2:B:301:LEU:HB3	2.40	0.52
2:B:295:ASN:O	2:B:296:ASP:CB	2.57	0.52
2:B:368:ILE:HD11	2:B:401:THR:HG22	1.91	0.52
2:B:596:LEU:O	2:B:599:ALA:N	2.42	0.52
3:M:5:PHE:CB	3:M:125:PHE:CE2	2.93	0.52
3:M:74:TYR:CD2	3:M:109:LEU:O	2.63	0.52
3:M:101:LEU:C	3:M:106:LYS:N	2.57	0.52
3:M:104:PHE:HZ	3:M:113:LYS:NZ	0.39	0.52
3:M:347:PHE:HE2	3:M:352:GLN:CA	2.22	0.52
4:S:4:ALA:CB	4:S:18:LYS:O	2.58	0.52
1:A:249:ASN:ND2	4:S:146:VAL:H	2.08	0.52
1:A:301:GLY:O	1:A:302:ASN:HB3	2.09	0.52
1:A:585:PHE:CD2	1:A:607:LEU:HD11	2.44	0.52
2:B:4:SER:O	2:B:8:ILE:HG13	2.09	0.52
2:B:105:LEU:HB3	2:B:145:MET:HE3	1.81	0.52
2:B:123:LEU:CB	2:B:142:LEU:CD1	2.84	0.52
2:B:141:ALA:C	2:B:143:SER:H	2.18	0.52
2:B:189:HIS:CG	2:B:189:HIS:O	2.62	0.52
2:B:196:LEU:HB2	2:B:229:HIS:HE1	1.61	0.52
2:B:208:ILE:HD11	2:B:236:ILE:HG23	1.83	0.52
2:B:223:LEU:CD1	2:B:258:GLN:O	2.58	0.52
2:B:501:THR:HA	2:B:508:ARG:NH2	2.20	0.52
2:B:537:PHE:CZ	2:B:598:LEU:O	2.62	0.52
3:M:270:PRO:HA	3:M:302:TYR:HD1	1.74	0.52
4:S:50:PHE:HA	4:S:76:ILE:HA	1.91	0.52
1:A:92:LEU:CD1	1:A:123:LEU:HD12	2.32	0.52
1:A:260:PHE:O	1:A:262:ASN:N	2.40	0.52
1:A:566:PHE:CZ	1:A:618:THR:O	2.63	0.52
1:A:637:GLU:CB	2:B:516:GLY:H	2.05	0.52
2:B:85:ASP:C	2:B:89:ASN:HD22	2.18	0.52
2:B:98:LYS:HG3	2:B:137:PHE:HB2	1.91	0.52
2:B:140:SER:HA	2:B:172:GLU:OE1	2.05	0.52
2:B:227:HIS:CE1	2:B:292:GLU:OE2	2.45	0.52
2:B:336:ASN:C	2:B:338:LYS:H	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:451:MET:HG3	2:B:489:ILE:HD13	1.88	0.52
2:B:500:GLN:HB2	2:B:503:LEU:HG	1.89	0.52
2:B:559:ASP:OD2	2:B:582:ASP:OD2	2.28	0.52
3:M:10:THR:CG2	3:M:11:LYS:N	2.73	0.52
3:M:102:GLU:HA	3:M:106:LYS:HB2	1.91	0.52
3:M:443:SER:HB3	3:M:447:ILE:H	1.74	0.52
1:A:100:LEU:HB3	1:A:142:LYS:HG3	1.91	0.52
1:A:141:VAL:CG2	4:S:156:LEU:C	2.75	0.52
1:A:384:LEU:CD2	1:A:441:TYR:CD2	2.86	0.52
1:A:441:TYR:HD1	1:A:441:TYR:H	1.58	0.52
1:A:463:ASP:C	2:B:1:MET:CG	2.73	0.52
1:A:516:ILE:CD1	1:A:551:LEU:CD1	2.86	0.52
2:B:36:THR:O	2:B:40:GLN:N	2.43	0.52
2:B:139:LEU:CD2	2:B:172:GLU:O	2.55	0.52
2:B:216:LYS:HB2	2:B:251:LEU:CD2	2.40	0.52
2:B:421:SER:O	2:B:422:ALA:C	2.49	0.52
2:B:474:VAL:C	2:B:476:ARG:N	2.66	0.52
2:B:550:VAL:HA	2:B:614:ILE:HD11	1.91	0.52
3:M:215:TYR:CD1	3:M:467:TYR:C	2.88	0.52
3:M:222:PHE:CA	3:M:479:PHE:HZ	2.17	0.52
3:M:258:VAL:HG22	3:M:452:ILE:HG23	1.90	0.52
3:M:280:ASP:OD1	3:M:281:GLY:N	2.43	0.52
3:M:317:MET:O	3:M:322:LEU:HB3	2.10	0.52
3:M:368:ASP:O	3:M:371:GLU:HB2	2.10	0.52
4:S:56:SER:C	4:S:60:SER:HB2	2.34	0.52
4:S:83:LEU:HD11	4:S:116:VAL:CB	2.39	0.52
1:A:67:LYS:CB	4:S:166:LYS:CA	2.87	0.51
1:A:91:ILE:O	1:A:94:VAL:HB	2.10	0.51
1:A:102:GLN:CB	4:S:166:LYS:CB	2.56	0.51
1:A:320:HIS:CA	1:A:338:PHE:HZ	2.22	0.51
1:A:566:PHE:HZ	1:A:618:THR:CA	2.22	0.51
1:A:624:LEU:CA	2:B:617:LEU:HD21	2.40	0.51
2:B:25:VAL:HG22	2:B:35:TYR:C	2.35	0.51
2:B:196:LEU:HB2	2:B:229:HIS:HD1	1.73	0.51
2:B:344:VAL:CG1	2:B:381:PHE:CE1	2.93	0.51
2:B:403:ILE:CG2	2:B:411:ILE:HD12	2.39	0.51
3:M:379:LEU:N	3:M:379:LEU:CD1	2.73	0.51
4:S:57:LEU:CD1	4:S:57:LEU:N	2.73	0.51
1:A:140:VAL:CG2	1:A:177:ILE:CD1	2.88	0.51
1:A:187:LYS:O	1:A:190:LEU:HB3	2.09	0.51
1:A:190:LEU:HD12	1:A:228:LYS:HE3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:224:GLU:HG2	4:S:138:GLY:HA2	1.88	0.51
1:A:298:ILE:HG13	1:A:311:THR:HG22	1.91	0.51
1:A:403:LEU:CD1	1:A:421:PRO:O	2.55	0.51
1:A:425:LYS:HB3	1:A:464:ILE:HD12	1.93	0.51
1:A:626:SER:O	2:B:614:ILE:HA	2.10	0.51
2:B:60:ARG:CD	2:B:96:LYS:CG	2.87	0.51
2:B:63:MET:HE1	2:B:104:TYR:CB	2.40	0.51
2:B:143:SER:O	2:B:144:ASP:C	2.46	0.51
2:B:173:VAL:CB	2:B:199:LEU:HD11	2.40	0.51
2:B:559:ASP:CG	2:B:582:ASP:OD2	2.53	0.51
3:M:343:ASN:CB	3:M:408:VAL:HG13	2.40	0.51
4:S:47:GLN:OE1	4:S:84:TYR:CD2	2.63	0.51
1:A:71:VAL:HG12	1:A:105:VAL:CG1	2.31	0.51
1:A:185:LEU:HB3	1:A:189:PHE:CZ	2.46	0.51
2:B:47:LEU:HD23	2:B:62:ALA:O	2.11	0.51
2:B:108:PHE:CE1	2:B:115:LEU:HG	2.31	0.51
2:B:123:LEU:HB3	2:B:142:LEU:CD1	2.39	0.51
2:B:246:SER:O	2:B:249:ILE:HB	2.09	0.51
2:B:393:ILE:HG21	2:B:431:MET:CE	2.41	0.51
3:M:6:TYR:HB3	3:M:14:LEU:HG	1.92	0.51
3:M:18:TYR:HE2	3:M:20:LEU:HD21	1.73	0.51
3:M:131:ALA:O	3:M:132:GLY:C	2.42	0.51
3:M:379:LEU:CD2	3:M:386:PHE:HD1	1.99	0.51
3:M:455:VAL:HG12	3:M:455:VAL:O	2.09	0.51
1:A:241:TYR:C	1:A:241:TYR:CD2	2.88	0.51
1:A:624:LEU:O	1:A:627:GLU:HB2	2.11	0.51
2:B:10:SER:O	2:B:11:ALA:C	2.52	0.51
2:B:24:ALA:CB	2:B:35:TYR:CG	2.92	0.51
2:B:132:SER:CB	2:B:166:SER:HB3	2.39	0.51
2:B:135:ARG:NH2	2:B:164:ASP:HB2	2.24	0.51
2:B:162:VAL:CG1	2:B:195:ILE:HA	2.37	0.51
2:B:313:SER:OG	3:M:301:GLU:OE2	2.20	0.51
2:B:344:VAL:CG1	2:B:381:PHE:HZ	2.12	0.51
2:B:522:GLU:C	2:B:524:LYS:H	2.18	0.51
2:B:553:ALA:HB2	2:B:614:ILE:HG21	1.91	0.51
3:M:9:ASP:C	3:M:9:ASP:OD1	2.54	0.51
4:S:87:PHE:HB2	4:S:102:ILE:HD11	1.92	0.51
1:A:144:GLY:CA	1:A:180:LYS:CB	2.82	0.51
1:A:275:LEU:C	1:A:275:LEU:HD23	2.35	0.51
1:A:418:ILE:O	1:A:419:ILE:HB	2.09	0.51
1:A:440:ASN:CG	1:A:442:SER:CB	2.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:LYS:CG	2:B:605:PHE:CD2	2.81	0.51
1:A:579:LYS:O	1:A:582:ILE:HB	2.09	0.51
1:A:633:PHE:CD1	2:B:513:TRP:HZ3	2.16	0.51
1:A:638:LEU:HD11	2:B:518:ILE:HG23	1.88	0.51
2:B:15:ALA:O	2:B:17:VAL:HA	2.10	0.51
2:B:189:HIS:HB2	2:B:222:HIS:NE2	2.26	0.51
2:B:286:ILE:HG21	2:B:288:TYR:HH	1.73	0.51
2:B:341:GLU:HG2	2:B:345:ARG:NE	2.22	0.51
2:B:360:LEU:CD1	2:B:391:ALA:CB	2.87	0.51
2:B:381:PHE:HD2	2:B:395:LYS:HZ2	1.59	0.51
2:B:501:THR:CA	2:B:508:ARG:HH22	2.19	0.51
3:M:72:LEU:CD1	3:M:101:LEU:HD22	2.41	0.51
3:M:101:LEU:CD1	3:M:106:LYS:O	2.50	0.51
3:M:253:ASN:O	3:M:254:PRO:C	2.53	0.51
3:M:380:ARG:NH1	3:M:410:VAL:HG11	2.07	0.51
3:M:443:SER:HG	3:M:447:ILE:HG13	1.75	0.51
4:S:6:LEU:HD12	4:S:16:LEU:O	2.10	0.51
1:A:129:LYS:HD2	1:A:161:ASP:OD2	2.09	0.51
1:A:141:VAL:N	4:S:155:GLU:HB3	2.24	0.51
1:A:141:VAL:CA	4:S:159:ALA:HB2	2.35	0.51
1:A:158:LEU:HG	1:A:162:ILE:CD1	2.40	0.51
1:A:374:LEU:C	1:A:376:GLU:OE1	2.54	0.51
1:A:412:LYS:O	1:A:414:LYS:N	2.44	0.51
1:A:563:CYS:CA	1:A:566:PHE:CD2	2.86	0.51
2:B:216:LYS:CD	2:B:251:LEU:HA	2.41	0.51
2:B:336:ASN:C	2:B:338:LYS:N	2.67	0.51
2:B:408:VAL:HG12	2:B:412:PHE:CD2	2.45	0.51
2:B:522:GLU:O	2:B:522:GLU:CG	2.40	0.51
3:M:2:TYR:CZ	3:M:62:VAL:HG13	2.46	0.51
3:M:60:LEU:HD23	3:M:61:GLU:H	1.68	0.51
3:M:64:LYS:HG2	3:M:79:SER:O	2.10	0.51
3:M:235:LEU:CD2	3:M:307:SER:HA	2.41	0.51
3:M:478:ASN:O	3:M:479:PHE:O	2.29	0.51
4:S:87:PHE:CD2	4:S:102:ILE:HG12	2.45	0.51
1:A:105:VAL:HB	4:S:167:ILE:HA	1.93	0.51
1:A:195:ALA:O	1:A:199:ASN:ND2	2.44	0.51
1:A:295:VAL:CG1	1:A:319:LEU:HD11	2.28	0.51
1:A:450:TYR:CZ	1:A:476:GLN:HG3	2.39	0.51
1:A:503:ASN:OD1	3:M:59:ASP:CG	2.52	0.51
1:A:530:ASN:HD21	1:A:573:GLU:HB3	1.75	0.51
1:A:545:HIS:O	1:A:546:SER:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:7:ARG:O	2:B:8:ILE:C	2.53	0.51
2:B:189:HIS:CG	2:B:222:HIS:ND1	2.79	0.51
2:B:252:LEU:CG	2:B:302:PHE:CD1	2.88	0.51
2:B:530:LEU:HD23	2:B:591:MET:HB3	1.86	0.51
3:M:10:THR:N	3:M:75:TRP:CD1	2.76	0.51
3:M:101:LEU:CA	3:M:106:LYS:HA	2.40	0.51
3:M:218:LEU:CG	3:M:472:TYR:CE2	2.94	0.51
1:A:176:TYR:CG	4:S:155:GLU:CG	2.91	0.51
1:A:253:ILE:CD1	1:A:281:LEU:CB	2.79	0.51
1:A:537:THR:OG1	1:A:584:PHE:CE1	2.63	0.51
2:B:157:THR:C	2:B:159:LYS:H	2.18	0.51
2:B:292:GLU:CD	2:B:296:ASP:OD2	2.50	0.51
2:B:374:PHE:HA	2:B:377:TYR:HD1	1.75	0.51
2:B:454:LEU:O	2:B:457:HIS:HB2	2.09	0.51
2:B:463:LEU:O	2:B:468:LEU:CD1	2.58	0.51
3:M:3:LEU:N	3:M:3:LEU:CD1	2.73	0.51
3:M:342:LEU:HD12	3:M:342:LEU:N	2.25	0.51
1:A:129:LYS:O	1:A:132:LEU:N	2.44	0.51
1:A:604:LEU:HD23	1:A:604:LEU:C	2.35	0.51
2:B:59:VAL:HG11	2:B:89:ASN:HB3	1.91	0.51
2:B:169:VAL:C	2:B:173:VAL:HG23	2.35	0.51
2:B:275:ARG:HB3	2:B:291:TYR:CG	2.45	0.51
2:B:531:ARG:CG	2:B:591:MET:HE1	2.32	0.51
2:B:560:ILE:CA	2:B:563:PHE:HB2	2.41	0.51
3:M:217:ASP:C	3:M:472:TYR:CE1	2.89	0.51
3:M:220:GLU:CG	3:M:439:TYR:HD1	2.15	0.51
3:M:340:LEU:HG	3:M:342:LEU:HD11	1.91	0.51
1:A:65:ASN:O	4:S:165:SER:CA	2.57	0.51
1:A:175:PRO:CB	1:A:211:ASP:CG	2.82	0.51
1:A:463:ASP:C	2:B:1:MET:HG3	2.18	0.51
1:A:582:ILE:CD1	1:A:608:ARG:CA	2.88	0.51
2:B:38:TYR:HA	2:B:42:ILE:CA	2.41	0.51
2:B:82:TYR:HB2	2:B:104:TYR:OH	2.10	0.51
2:B:196:LEU:HB3	2:B:229:HIS:HD1	1.75	0.51
2:B:294:VAL:HG13	2:B:295:ASN:N	2.26	0.51
2:B:336:ASN:CB	2:B:339:PHE:CE1	2.94	0.51
3:M:101:LEU:HD23	3:M:106:LYS:CG	2.35	0.51
3:M:245:ASP:O	3:M:246:VAL:CG2	2.59	0.51
3:M:350:VAL:HG22	3:M:442:GLN:OE1	2.11	0.51
4:S:10:LYS:HA	4:S:84:TYR:HE1	1.76	0.51
1:A:166:LEU:CB	1:A:185:LEU:HD21	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:438:ALA:O	1:A:441:TYR:CE1	2.64	0.50
1:A:606:PHE:CD2	1:A:629:LEU:CD1	2.78	0.50
1:A:625:LEU:C	1:A:627:GLU:N	2.68	0.50
2:B:63:MET:HG2	2:B:100:LEU:HB2	1.93	0.50
2:B:63:MET:CA	2:B:66:ILE:HD12	2.41	0.50
2:B:185:LYS:CG	2:B:222:HIS:NE2	2.66	0.50
2:B:219:TYR:HE1	2:B:226:LEU:HD13	1.12	0.50
2:B:389:ILE:O	2:B:393:ILE:HG13	2.10	0.50
2:B:404:ASN:C	2:B:408:VAL:HG23	2.36	0.50
2:B:451:MET:HE2	2:B:489:ILE:HG13	1.93	0.50
3:M:2:TYR:O	3:M:80:THR:C	2.54	0.50
3:M:258:VAL:CG2	3:M:452:ILE:CG2	2.86	0.50
3:M:348:LYS:CG	3:M:405:THR:CG2	2.85	0.50
3:M:376:ILE:HD13	3:M:415:ILE:HG23	1.93	0.50
1:A:107:TYR:OH	1:A:128:LEU:HD23	2.11	0.50
1:A:137:ASN:HA	1:A:139:ASP:HB3	1.93	0.50
1:A:237:SER:N	1:A:238:PRO:CD	2.73	0.50
1:A:309:PHE:CZ	1:A:348:PHE:CZ	2.99	0.50
1:A:461:CYS:SG	1:A:469:LEU:CD2	2.95	0.50
2:B:29:LYS:CD	2:B:30:LEU:N	2.58	0.50
2:B:108:PHE:CD2	2:B:115:LEU:HB3	2.46	0.50
2:B:159:LYS:HA	2:B:195:ILE:HD13	1.82	0.50
2:B:159:LYS:N	2:B:195:ILE:CD1	2.73	0.50
2:B:278:PRO:C	2:B:292:GLU:OE1	2.29	0.50
2:B:343:LEU:HD11	2:B:359:LEU:HD13	1.86	0.50
2:B:562:ASN:O	2:B:581:TYR:HA	2.10	0.50
2:B:572:GLU:C	2:B:574:ASN:N	2.69	0.50
3:M:56:VAL:O	3:M:56:VAL:HG12	2.10	0.50
3:M:101:LEU:CG	3:M:106:LYS:HG3	2.42	0.50
3:M:222:PHE:CZ	3:M:439:TYR:CE1	3.00	0.50
3:M:383:HIS:CB	3:M:403:THR:OG1	2.56	0.50
4:S:16:LEU:HD22	4:S:125:TRP:HD1	1.76	0.50
1:A:147:LEU:HB2	1:A:184:ALA:HB2	1.92	0.50
1:A:260:PHE:O	1:A:261:THR:O	2.26	0.50
1:A:595:GLU:O	1:A:599:ARG:HG2	2.11	0.50
2:B:62:ALA:O	2:B:66:ILE:HD11	1.95	0.50
2:B:137:PHE:O	2:B:140:SER:CB	2.59	0.50
2:B:215:TYR:CB	2:B:226:LEU:HD13	2.39	0.50
2:B:344:VAL:CG2	2:B:381:PHE:HZ	2.24	0.50
2:B:419:VAL:O	2:B:420:ALA:C	2.53	0.50
2:B:501:THR:CA	2:B:508:ARG:NH2	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:599:ALA:O	2:B:602:ASP:N	2.27	0.50
3:M:254:PRO:CB	3:M:454:ILE:CD1	2.60	0.50
3:M:265:ASN:HB3	3:M:309:GLN:NE2	2.26	0.50
3:M:353:VAL:CG2	3:M:354:ASP:O	2.55	0.50
1:A:125:THR:HG23	1:A:158:LEU:HD12	1.94	0.50
1:A:178:ARG:CB	1:A:214:VAL:HG13	2.39	0.50
1:A:557:LYS:CD	2:B:605:PHE:HD2	2.24	0.50
1:A:559:PHE:CD2	1:A:578:LEU:CD2	2.94	0.50
1:A:581:LEU:CG	1:A:607:LEU:CD1	2.89	0.50
1:A:633:PHE:CD1	2:B:550:VAL:CB	2.93	0.50
2:B:136:CYS:CB	2:B:168:MET:HG2	2.42	0.50
2:B:175:LEU:CD1	2:B:210:CYS:SG	2.84	0.50
2:B:281:ASP:O	2:B:283:TYR:O	2.29	0.50
2:B:306:LEU:CD2	2:B:321:CYS:SG	3.00	0.50
2:B:337:THR:O	2:B:373:LEU:HD21	2.10	0.50
2:B:478:LEU:C	2:B:480:GLN:N	2.63	0.50
2:B:564:LYS:O	2:B:567:GLN:N	2.40	0.50
3:M:45:SER:HB3	3:M:51:LEU:CD1	2.40	0.50
3:M:51:LEU:HD13	3:M:75:TRP:CE3	2.43	0.50
3:M:100:LEU:CD1	3:M:100:LEU:N	2.73	0.50
3:M:246:VAL:CA	3:M:470:ALA:HB2	2.34	0.50
3:M:259:LYS:O	3:M:449:VAL:CA	2.53	0.50
3:M:339:GLU:CD	3:M:412:ARG:HD3	2.35	0.50
3:M:339:GLU:CG	3:M:412:ARG:CG	2.53	0.50
3:M:469:GLY:O	3:M:470:ALA:C	2.53	0.50
4:S:34:GLN:HB2	4:S:58:LEU:HD11	1.94	0.50
4:S:97:ALA:O	4:S:101:LEU:HB2	2.12	0.50
1:A:371:ALA:O	1:A:374:LEU:HB2	2.12	0.50
1:A:488:ARG:CD	1:A:522:PHE:CD2	2.95	0.50
1:A:547:VAL:O	1:A:550:VAL:HB	2.12	0.50
1:A:581:LEU:CB	1:A:607:LEU:HD13	2.42	0.50
1:A:636:TYR:HB2	2:B:513:TRP:CZ2	2.46	0.50
2:B:25:VAL:HG22	2:B:35:TYR:CD2	2.44	0.50
2:B:37:TYR:CZ	2:B:46:GLN:CD	2.63	0.50
2:B:68:SER:O	2:B:71:ALA:HB3	2.12	0.50
2:B:132:SER:CB	2:B:166:SER:CB	2.89	0.50
2:B:223:LEU:CB	2:B:259:TYR:CB	2.89	0.50
2:B:316:THR:CB	3:M:90:PHE:CE2	2.91	0.50
2:B:553:ALA:CB	2:B:614:ILE:HG23	2.42	0.50
2:B:560:ILE:HD11	2:B:618:PHE:HA	1.92	0.50
2:B:610:ARG:O	2:B:614:ILE:HG13	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:1:MET:C	3:M:81:SER:CB	2.84	0.50
3:M:52:ASP:CB	3:M:67:SER:HA	2.42	0.50
3:M:52:ASP:HB3	3:M:67:SER:HA	1.93	0.50
1:A:96:SER:CB	1:A:127:LEU:HD13	2.18	0.50
1:A:254:ILE:HG21	4:S:100:ASP:OD2	2.12	0.50
1:A:488:ARG:HD2	1:A:522:PHE:CD2	2.47	0.50
1:A:492:ILE:HD11	1:A:522:PHE:CB	2.42	0.50
2:B:21:GLU:OE2	2:B:35:TYR:O	2.30	0.50
2:B:37:TYR:CE2	2:B:46:GLN:CD	2.87	0.50
2:B:47:LEU:HD23	2:B:66:ILE:HG13	1.69	0.50
2:B:70:MET:HE1	2:B:104:TYR:HA	1.92	0.50
2:B:120:ILE:HG21	2:B:150:LEU:O	2.11	0.50
2:B:127:LEU:HA	2:B:135:ARG:HG2	1.93	0.50
2:B:245:GLN:HB3	2:B:309:LEU:CD1	2.41	0.50
2:B:355:ASN:O	2:B:359:LEU:HD22	2.12	0.50
2:B:411:ILE:O	2:B:414:GLU:N	2.23	0.50
2:B:475:ILE:HG23	2:B:489:ILE:HG21	1.93	0.50
3:M:18:TYR:CE2	3:M:20:LEU:HD21	2.47	0.50
3:M:51:LEU:CD1	3:M:51:LEU:N	2.73	0.50
3:M:338:PHE:HE2	3:M:415:ILE:HG12	1.75	0.50
3:M:374:TYR:H	3:M:390:ILE:CG2	2.25	0.50
4:S:75:ILE:HG22	4:S:77:TYR:CZ	2.45	0.50
1:A:95:MET:HB2	1:A:127:LEU:HD23	1.92	0.50
1:A:96:SER:N	1:A:127:LEU:CG	2.66	0.50
1:A:101:GLN:HG2	4:S:167:ILE:HB	1.84	0.50
1:A:102:GLN:C	4:S:163:THR:HB	2.13	0.50
2:B:44:PRO:O	2:B:47:LEU:N	2.45	0.50
2:B:60:ARG:O	2:B:100:LEU:CD1	2.60	0.50
2:B:267:ASP:CB	2:B:289:PRO:CG	2.90	0.50
2:B:461:HIS:HB2	2:B:463:LEU:CD2	2.42	0.50
3:M:215:TYR:CE1	3:M:468:LYS:CB	2.95	0.50
3:M:319:SER:HG	3:M:346:ASN:CB	2.02	0.50
4:S:16:LEU:HB2	4:S:125:TRP:CD1	2.47	0.50
4:S:17:VAL:CG1	4:S:19:PHE:CZ	2.95	0.50
4:S:75:ILE:HB	4:S:77:TYR:HE1	1.76	0.50
1:A:92:LEU:HD13	1:A:123:LEU:HB2	1.93	0.50
1:A:141:VAL:CG1	4:S:159:ALA:CA	2.89	0.50
1:A:150:LEU:CD2	1:A:162:ILE:HG12	2.41	0.50
1:A:251:TRP:CE3	1:A:254:ILE:HD12	2.47	0.50
1:A:365:VAL:O	1:A:366:SER:C	2.46	0.50
1:A:432:ILE:O	1:A:435:ILE:HB	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:141:ALA:HB1	2:B:145:MET:HE2	1.93	0.50
2:B:162:VAL:HG23	2:B:173:VAL:HG11	1.94	0.50
2:B:252:LEU:CB	2:B:302:PHE:CD1	2.93	0.50
2:B:512:VAL:O	2:B:515:PHE:HB2	2.12	0.50
3:M:8:THR:H	3:M:75:TRP:C	2.17	0.50
3:M:380:ARG:NH1	3:M:412:ARG:NH1	2.60	0.50
1:A:71:VAL:HG11	1:A:105:VAL:C	2.37	0.50
1:A:137:ASN:O	1:A:139:ASP:N	2.26	0.50
1:A:145:ILE:HG12	4:S:156:LEU:CD2	2.37	0.50
1:A:171:ASN:CG	1:A:202:LYS:NZ	2.69	0.50
1:A:200:PHE:CZ	1:A:232:PRO:O	2.62	0.50
1:A:497:LYS:O	1:A:501:ASN:N	2.44	0.50
1:A:556:VAL:HG22	1:A:603:VAL:HG13	1.93	0.50
1:A:573:GLU:O	1:A:575:LYS:N	2.45	0.50
2:B:143:SER:HB2	2:B:179:LYS:CG	2.42	0.50
2:B:197:LYS:CB	2:B:229:HIS:CD2	2.89	0.50
2:B:394:TRP:CE3	2:B:397:GLN:CD	2.89	0.50
2:B:452:LYS:NZ	2:B:456:ASP:OD2	2.44	0.50
2:B:553:ALA:CA	2:B:614:ILE:HG23	2.39	0.50
2:B:577:ASN:O	2:B:578:PRO:C	2.39	0.50
3:M:375:LYS:CE	3:M:418:GLU:OE1	2.60	0.50
4:S:78:LYS:O	4:S:84:TYR:HA	2.12	0.50
1:A:166:LEU:O	1:A:170:LEU:HD23	2.12	0.49
1:A:212:ILE:CB	4:S:145:ASN:HD22	2.25	0.49
1:A:459:MET:HE1	1:A:503:ASN:HB3	1.94	0.49
1:A:625:LEU:C	2:B:617:LEU:HD11	2.33	0.49
2:B:256:CYS:CA	2:B:293:VAL:HG21	2.31	0.49
2:B:560:ILE:HA	2:B:564:LYS:N	2.22	0.49
3:M:6:TYR:CG	3:M:14:LEU:HD11	2.46	0.49
3:M:235:LEU:HD23	3:M:235:LEU:O	2.11	0.49
3:M:256:VAL:HG22	3:M:452:ILE:HG23	1.92	0.49
3:M:373:ALA:CB	3:M:418:GLU:O	2.57	0.49
3:M:396:GLN:HG2	3:M:398:ILE:CD1	2.40	0.49
3:M:424:PHE:HZ	3:M:428:VAL:CG2	2.25	0.49
3:M:452:ILE:CD1	3:M:452:ILE:N	2.73	0.49
4:S:4:ALA:HB2	4:S:19:PHE:HD2	1.77	0.49
4:S:47:GLN:CD	4:S:78:LYS:C	2.70	0.49
1:A:104:ARG:HB3	4:S:160:ALA:HB2	1.95	0.49
1:A:133:LYS:HE2	1:A:165:ASP:OD1	2.11	0.49
1:A:139:ASP:OD1	1:A:177:ILE:CD1	2.60	0.49
1:A:186:PHE:HD1	1:A:224:GLU:HB3	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:349:ILE:O	1:A:352:PHE:N	2.42	0.49
1:A:395:PHE:CD2	1:A:420:ILE:HD13	2.47	0.49
1:A:420:ILE:O	1:A:421:PRO:O	2.30	0.49
1:A:433:ILE:HD11	1:A:473:ILE:HA	1.94	0.49
1:A:450:TYR:OH	1:A:476:GLN:CD	2.50	0.49
1:A:461:CYS:O	1:A:462:GLN:O	2.30	0.49
1:A:481:MET:O	1:A:482:ILE:C	2.53	0.49
1:A:549:GLU:O	1:A:553:LEU:HG	2.12	0.49
2:B:81:LEU:O	2:B:84:ALA:N	2.45	0.49
2:B:109:ALA:HB2	2:B:145:MET:SD	2.53	0.49
2:B:332:LEU:O	2:B:332:LEU:CG	2.60	0.49
2:B:349:MET:O	2:B:351:GLU:OE2	2.30	0.49
2:B:418:TYR:CG	2:B:424:PHE:CE1	3.00	0.49
2:B:421:SER:C	2:B:422:ALA:O	2.42	0.49
2:B:494:ALA:HB2	2:B:529:VAL:HG22	1.94	0.49
2:B:534:ILE:HG12	2:B:595:VAL:HG23	1.93	0.49
3:M:260:LEU:CA	3:M:448:TYR:O	2.59	0.49
3:M:288:ILE:HG22	3:M:289:THR:N	2.27	0.49
3:M:323:MET:CE	3:M:342:LEU:CB	2.89	0.49
3:M:331:LEU:HD12	3:M:331:LEU:C	2.36	0.49
3:M:379:LEU:CD2	3:M:397:TRP:NE1	2.66	0.49
1:A:100:LEU:HD11	4:S:157:ASN:O	2.12	0.49
1:A:217:ALA:CA	4:S:142:ILE:CA	2.53	0.49
1:A:456:ASP:O	1:A:459:MET:N	2.37	0.49
1:A:532:LEU:O	1:A:533:ILE:O	2.26	0.49
1:A:602:GLU:OE1	1:A:633:PHE:HE1	1.95	0.49
1:A:623:MET:O	2:B:617:LEU:CG	2.60	0.49
2:B:343:LEU:HD23	2:B:363:ILE:HD13	1.93	0.49
3:M:244:VAL:CG2	3:M:472:TYR:CE2	2.94	0.49
3:M:296:LYS:HG3	3:M:296:LYS:O	2.12	0.49
3:M:320:ILE:CG2	3:M:321:GLY:N	2.75	0.49
3:M:371:GLU:HB3	3:M:424:PHE:CD1	2.45	0.49
1:A:179:LYS:HG3	1:A:217:ALA:CB	2.35	0.49
1:A:244:LEU:CG	1:A:277:LYS:HG3	2.39	0.49
1:A:441:TYR:HB3	1:A:444:VAL:HG22	1.91	0.49
1:A:630:PRO:CB	2:B:614:ILE:CG2	2.88	0.49
2:B:125:LYS:O	2:B:128:SER:N	2.45	0.49
2:B:132:SER:CB	2:B:169:VAL:HG21	2.41	0.49
2:B:267:ASP:CA	2:B:289:PRO:HB3	2.39	0.49
2:B:281:ASP:OD1	2:B:287:GLU:CD	2.55	0.49
2:B:284:ASN:HB3	2:B:285:GLU:HG3	1.91	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:334:MET:CE	2:B:339:PHE:CD1	2.94	0.49
3:M:74:TYR:HB3	3:M:114:ILE:HD11	1.95	0.49
3:M:222:PHE:CD1	3:M:222:PHE:N	2.80	0.49
3:M:317:MET:CB	3:M:322:LEU:N	2.65	0.49
4:S:14:PRO:CA	4:S:36:TYR:CZ	2.95	0.49
4:S:17:VAL:HG13	4:S:17:VAL:O	2.12	0.49
4:S:51:LEU:HB2	4:S:77:TYR:CE1	2.47	0.49
1:A:91:ILE:HG22	1:A:95:MET:HE2	1.94	0.49
1:A:153:ILE:CG2	1:A:158:LEU:HD23	2.42	0.49
1:A:403:LEU:HG	1:A:420:ILE:O	2.12	0.49
1:A:440:ASN:OD1	1:A:442:SER:CB	2.58	0.49
1:A:552:ILE:HD13	1:A:600:SER:OG	2.12	0.49
2:B:223:LEU:HD11	2:B:258:GLN:O	2.08	0.49
2:B:267:ASP:OD1	2:B:269:SER:HB2	2.12	0.49
2:B:393:ILE:HG21	2:B:431:MET:HB2	1.95	0.49
3:M:350:VAL:HG22	3:M:442:GLN:NE2	2.28	0.49
1:A:100:LEU:CA	4:S:163:THR:HG23	2.27	0.49
1:A:240:LEU:C	1:A:242:GLU:O	2.56	0.49
1:A:317:GLU:CG	1:A:351:ARG:HH12	2.26	0.49
1:A:421:PRO:HB2	1:A:424:TYR:HD1	1.78	0.49
2:B:132:SER:O	2:B:136:CYS:SG	2.70	0.49
2:B:221:ASP:O	2:B:223:LEU:HG	2.11	0.49
2:B:257:LYS:HA	2:B:260:LEU:CD2	2.42	0.49
2:B:299:LEU:O	2:B:299:LEU:HD13	2.13	0.49
2:B:315:PRO:CB	2:B:355:ASN:ND2	2.51	0.49
2:B:340:ILE:O	2:B:343:LEU:HB3	2.12	0.49
2:B:424:PHE:CE2	2:B:428:VAL:HG11	2.45	0.49
2:B:427:ASN:HA	2:B:430:ILE:HD12	1.94	0.49
2:B:436:LEU:HB3	2:B:450:VAL:HG13	1.93	0.49
1:A:123:LEU:O	1:A:127:LEU:HB2	2.13	0.49
1:A:170:LEU:CG	1:A:206:LYS:HG3	2.42	0.49
1:A:557:LYS:CG	2:B:606:ASP:CA	2.89	0.49
1:A:607:LEU:C	1:A:609:LEU:H	2.18	0.49
2:B:17:VAL:O	2:B:18:ILE:C	2.54	0.49
2:B:120:ILE:CG2	2:B:153:ILE:HB	2.41	0.49
2:B:132:SER:O	2:B:169:VAL:CG2	2.60	0.49
2:B:208:ILE:C	2:B:210:CYS:N	2.66	0.49
2:B:227:HIS:O	2:B:230:PHE:N	2.44	0.49
2:B:243:TRP:HZ2	3:M:95:THR:N	1.90	0.49
2:B:292:GLU:CG	2:B:295:ASN:O	2.60	0.49
2:B:362:ALA:O	2:B:366:LEU:CG	2.58	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:455:ILE:O	2:B:458:MET:N	2.46	0.49
2:B:494:ALA:CB	2:B:529:VAL:HG13	2.43	0.49
2:B:513:TRP:HE1	2:B:517:GLU:HG3	1.77	0.49
3:M:103:TYR:CG	3:M:124:ILE:HD11	2.48	0.49
3:M:106:LYS:O	3:M:106:LYS:HG2	2.13	0.49
3:M:218:LEU:HB3	3:M:442:GLN:O	2.11	0.49
3:M:315:VAL:O	3:M:315:VAL:HG12	2.11	0.49
3:M:443:SER:HB2	3:M:447:ILE:N	2.27	0.49
1:A:67:LYS:CD	1:A:102:GLN:OE1	2.60	0.49
1:A:171:ASN:CG	1:A:202:LYS:HZ1	2.18	0.49
1:A:589:SER:HB2	1:A:601:VAL:HG23	1.92	0.49
1:A:624:LEU:O	2:B:613:MET:CE	2.50	0.49
2:B:106:LEU:HD22	2:B:144:ASP:OD2	2.13	0.49
2:B:123:LEU:HD22	2:B:138:ALA:CB	2.43	0.49
2:B:237:ILE:HG21	2:B:305:SER:CB	2.35	0.49
2:B:275:ARG:CG	2:B:294:VAL:HG21	2.42	0.49
2:B:343:LEU:HD21	2:B:363:ILE:N	2.27	0.49
2:B:346:THR:HG23	2:B:350:THR:CG2	2.30	0.49
2:B:389:ILE:CG2	2:B:427:ASN:CB	2.81	0.49
3:M:265:ASN:O	3:M:267:ILE:N	2.45	0.49
1:A:84:MET:SD	1:A:113:SER:HA	2.52	0.49
1:A:114:PHE:CD1	1:A:114:PHE:C	2.91	0.49
1:A:396:VAL:C	1:A:397:ASP:OD1	2.56	0.49
2:B:150:LEU:O	2:B:154:ILE:HD12	2.08	0.49
2:B:178:ILE:HG23	2:B:217:GLU:CA	2.43	0.49
2:B:200:MET:O	2:B:202:ASP:N	2.45	0.49
2:B:394:TRP:CE3	2:B:397:GLN:OE1	2.64	0.49
2:B:461:HIS:C	2:B:463:LEU:N	2.63	0.49
2:B:513:TRP:CE3	2:B:551:LEU:HD21	2.40	0.49
2:B:572:GLU:O	2:B:575:ASN:N	2.28	0.49
3:M:101:LEU:HB2	3:M:109:LEU:HD13	1.94	0.49
3:M:234:ARG:O	3:M:235:LEU:C	2.51	0.49
3:M:276:VAL:HG21	3:M:299:LEU:HD12	1.93	0.49
3:M:331:LEU:HD22	3:M:426:LYS:HZ2	1.77	0.49
4:S:33:GLU:O	4:S:36:TYR:HB2	2.12	0.49
1:A:275:LEU:HA	1:A:278:ILE:CG1	2.43	0.49
1:A:627:GLU:HB3	2:B:617:LEU:HB3	1.90	0.49
1:A:633:PHE:CB	2:B:550:VAL:O	2.58	0.49
1:A:636:TYR:CB	2:B:554:LYS:HZ3	2.17	0.49
2:B:80:GLN:HA	2:B:115:LEU:HD11	1.95	0.49
2:B:151:ALA:HB2	2:B:180:LEU:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:178:ILE:CD1	2:B:214:ALA:C	2.82	0.49
2:B:261:PRO:C	2:B:290:SER:CB	2.86	0.49
2:B:559:ASP:O	2:B:562:ASN:CB	2.61	0.49
2:B:589:SER:C	2:B:591:MET:H	2.20	0.49
3:M:1:MET:HB3	3:M:81:SER:HB3	1.95	0.49
3:M:235:LEU:HD11	3:M:306:LEU:CD1	2.42	0.49
1:A:105:VAL:O	1:A:108:LEU:HB2	2.13	0.48
1:A:252:ILE:HA	4:S:144:THR:CB	2.30	0.48
1:A:582:ILE:HD11	1:A:608:ARG:N	2.28	0.48
1:A:589:SER:CB	1:A:601:VAL:HG23	2.42	0.48
2:B:38:TYR:HD1	2:B:38:TYR:N	2.10	0.48
2:B:77:ILE:HG23	2:B:82:TYR:CE1	2.42	0.48
2:B:92:THR:HG22	2:B:93:ASN:N	2.27	0.48
2:B:353:GLN:HB2	3:M:50:TYR:H	1.71	0.48
3:M:3:LEU:CD1	3:M:80:THR:O	2.61	0.48
3:M:101:LEU:CG	3:M:106:LYS:CG	2.91	0.48
3:M:224:VAL:CG1	3:M:226:PHE:CZ	2.89	0.48
3:M:226:PHE:CD2	3:M:235:LEU:HA	2.48	0.48
3:M:389:SER:N	3:M:394:GLN:O	2.33	0.48
1:A:179:LYS:HD3	4:S:152:SER:OG	2.13	0.48
1:A:408:ILE:HG21	4:S:64:ASN:HB3	1.82	0.48
1:A:512:LEU:HD13	1:A:543:TYR:CZ	2.48	0.48
2:B:174:ALA:O	2:B:214:ALA:HB2	2.07	0.48
2:B:219:TYR:HD1	2:B:226:LEU:CD1	2.06	0.48
2:B:237:ILE:CG2	2:B:238:LYS:N	2.76	0.48
3:M:93:LEU:O	3:M:96:ILE:HB	2.14	0.48
3:M:215:TYR:CD1	3:M:468:LYS:CB	2.94	0.48
3:M:222:PHE:CG	3:M:240:ILE:HG12	2.48	0.48
3:M:235:LEU:HD13	3:M:310:VAL:HG21	1.95	0.48
3:M:386:PHE:CB	3:M:397:TRP:HD1	2.26	0.48
3:M:435:LEU:O	3:M:437:TYR:CE1	2.66	0.48
4:S:34:GLN:CD	4:S:58:LEU:CD1	2.70	0.48
1:A:102:GLN:O	4:S:167:ILE:HD11	2.13	0.48
1:A:139:ASP:CG	1:A:177:ILE:CD1	2.86	0.48
2:B:5:ILE:HA	2:B:8:ILE:CD1	2.38	0.48
2:B:37:TYR:C	2:B:39:SER:H	2.20	0.48
2:B:56:SER:O	2:B:97:VAL:CG2	2.61	0.48
2:B:293:VAL:O	2:B:299:LEU:HB3	2.04	0.48
2:B:418:TYR:HD1	2:B:424:PHE:CE1	2.26	0.48
2:B:447:GLU:O	2:B:450:VAL:HB	2.13	0.48
2:B:580:TYR:O	2:B:582:ASP:N	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:7:ILE:HA	3:M:76:CYS:CA	2.28	0.48
3:M:226:PHE:CD1	3:M:481:VAL:HG22	2.49	0.48
3:M:235:LEU:HD11	3:M:306:LEU:HD13	1.94	0.48
3:M:319:SER:HB3	3:M:346:ASN:CG	2.37	0.48
4:S:80:TYR:CG	4:S:106:VAL:CG1	2.96	0.48
1:A:316:LEU:HD12	1:A:348:PHE:CZ	2.45	0.48
2:B:98:LYS:HD2	2:B:102:HIS:CE1	2.48	0.48
2:B:302:PHE:CE1	2:B:306:LEU:HD21	2.48	0.48
2:B:389:ILE:HG21	2:B:427:ASN:CB	2.35	0.48
2:B:440:GLY:C	2:B:442:LEU:H	2.22	0.48
2:B:513:TRP:NE1	2:B:517:GLU:CG	2.76	0.48
2:B:538:SER:CA	2:B:598:LEU:HD22	2.43	0.48
2:B:542:PRO:O	2:B:545:ARG:HB2	2.14	0.48
2:B:589:SER:OG	2:B:618:PHE:HE2	1.90	0.48
3:M:224:VAL:HG22	3:M:306:LEU:CD1	2.41	0.48
3:M:249:TYR:CE1	3:M:467:TYR:CE1	3.02	0.48
3:M:323:MET:SD	3:M:342:LEU:CA	3.01	0.48
3:M:338:PHE:CE2	3:M:415:ILE:HD11	2.48	0.48
3:M:347:PHE:HA	3:M:350:VAL:HG23	1.96	0.48
1:A:207:LEU:CD1	1:A:240:LEU:HD23	2.38	0.48
1:A:398:GLU:O	1:A:419:ILE:CA	2.61	0.48
1:A:478:ARG:O	1:A:482:ILE:HG13	2.13	0.48
1:A:532:LEU:O	1:A:535:ILE:C	2.56	0.48
2:B:80:GLN:HG2	2:B:115:LEU:CD2	2.43	0.48
2:B:139:LEU:CD2	2:B:173:VAL:CB	2.87	0.48
2:B:277:CYS:HA	2:B:295:ASN:O	2.13	0.48
2:B:360:LEU:HB3	2:B:394:TRP:HB2	1.95	0.48
2:B:393:ILE:CG1	2:B:428:VAL:HA	2.40	0.48
2:B:541:GLY:O	2:B:544:THR:HB	2.14	0.48
3:M:65:TYR:CG	3:M:86:PRO:CA	2.93	0.48
3:M:100:LEU:HD22	3:M:100:LEU:C	2.36	0.48
3:M:240:ILE:HG22	3:M:444:ALA:CB	2.42	0.48
3:M:380:ARG:HH11	3:M:412:ARG:HH11	1.59	0.48
4:S:117:ASN:CG	4:S:120:ASP:OD2	2.57	0.48
1:A:67:LYS:HB3	4:S:166:LYS:HG2	1.86	0.48
1:A:121:LEU:HD13	1:A:155:THR:CG2	2.44	0.48
1:A:153:ILE:HG22	1:A:158:LEU:HD23	1.94	0.48
1:A:300:LYS:C	1:A:302:ASN:N	2.57	0.48
1:A:350:SER:O	1:A:352:PHE:N	2.46	0.48
1:A:384:LEU:HD13	1:A:435:ILE:HG21	1.86	0.48
1:A:509:PRO:CB	1:A:547:VAL:HG21	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:594:PHE:CG	2:B:434:LYS:HE2	2.48	0.48
2:B:14:THR:C	2:B:16:LYS:N	2.71	0.48
2:B:27:THR:HG22	2:B:27:THR:O	2.14	0.48
2:B:56:SER:HB2	2:B:92:THR:CG2	2.30	0.48
2:B:281:ASP:C	2:B:283:TYR:H	2.20	0.48
2:B:286:ILE:C	2:B:287:GLU:O	2.54	0.48
2:B:325:LEU:HB3	2:B:334:MET:HE1	1.95	0.48
2:B:429:VAL:O	2:B:433:VAL:HG23	2.12	0.48
2:B:580:TYR:C	2:B:582:ASP:N	2.72	0.48
3:M:241:HIS:CD2	3:M:475:GLN:H	2.29	0.48
4:S:57:LEU:CA	4:S:60:SER:HB2	2.41	0.48
1:A:132:LEU:CB	1:A:165:ASP:HB3	2.44	0.48
1:A:196:LEU:O	1:A:197:ARG:O	2.31	0.48
1:A:320:HIS:ND1	1:A:352:PHE:HD2	2.12	0.48
1:A:402:ILE:O	1:A:402:ILE:HG23	2.12	0.48
1:A:516:ILE:HD13	1:A:551:LEU:CD1	2.43	0.48
1:A:556:VAL:HG22	1:A:603:VAL:HG11	1.94	0.48
1:A:556:VAL:HG21	1:A:603:VAL:HG13	1.96	0.48
2:B:83:PHE:CE2	2:B:119:SER:HA	2.38	0.48
2:B:279:LEU:CB	2:B:288:TYR:HD1	2.23	0.48
2:B:377:TYR:O	2:B:380:LYS:CB	2.49	0.48
2:B:394:TRP:CZ3	2:B:397:GLN:NE2	2.82	0.48
2:B:396:ILE:HD13	2:B:418:TYR:CE2	2.43	0.48
2:B:398:ILE:C	2:B:400:SER:N	2.69	0.48
2:B:515:PHE:CD2	2:B:529:VAL:HG21	2.44	0.48
2:B:542:PRO:CA	2:B:602:ASP:OD1	2.61	0.48
3:M:9:ASP:CG	3:M:13:LYS:HB3	2.38	0.48
1:A:154:ILE:O	1:A:155:THR:C	2.49	0.48
1:A:316:LEU:O	1:A:319:LEU:HB2	2.13	0.48
2:B:106:LEU:CG	2:B:144:ASP:CB	2.86	0.48
2:B:227:HIS:CE1	2:B:292:GLU:CG	2.96	0.48
2:B:237:ILE:HG12	2:B:245:GLN:HG2	1.95	0.48
2:B:515:PHE:CE2	2:B:529:VAL:CG1	2.95	0.48
2:B:519:ALA:CB	2:B:555:LEU:HD13	2.44	0.48
2:B:537:PHE:CZ	2:B:598:LEU:C	2.91	0.48
2:B:538:SER:HB3	2:B:598:LEU:CD2	2.44	0.48
3:M:6:TYR:CB	3:M:16:PHE:O	2.62	0.48
3:M:221:THR:HA	3:M:437:TYR:O	2.13	0.48
3:M:243:ILE:CG2	3:M:298:ARG:HG2	2.43	0.48
3:M:355:ASP:O	3:M:356:LEU:C	2.55	0.48
3:M:446:GLY:C	3:M:448:TYR:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:5:VAL:O	4:S:18:LYS:N	2.44	0.48
4:S:17:VAL:HG13	4:S:19:PHE:HE1	1.74	0.48
1:A:144:GLY:HA3	1:A:180:LYS:HG3	1.96	0.48
1:A:215:VAL:O	1:A:216:SER:O	2.31	0.48
1:A:381:GLU:CA	1:A:384:LEU:HD23	2.39	0.48
1:A:402:ILE:O	1:A:403:LEU:C	2.54	0.48
1:A:454:ILE:CG2	1:A:473:ILE:CG2	2.92	0.48
1:A:488:ARG:CD	1:A:522:PHE:CE2	2.96	0.48
2:B:80:GLN:CA	2:B:115:LEU:HD11	2.43	0.48
2:B:123:LEU:C	2:B:127:LEU:CD1	2.86	0.48
2:B:417:TYR:O	2:B:421:SER:CB	2.62	0.48
3:M:7:ILE:HG21	3:M:74:TYR:HB2	1.96	0.48
3:M:24:ALA:C	3:M:25:PRO:O	2.50	0.48
3:M:215:TYR:CD1	3:M:468:LYS:CG	2.97	0.48
3:M:234:ARG:O	3:M:236:LEU:N	2.47	0.48
4:S:34:GLN:C	4:S:36:TYR:H	2.21	0.48
1:A:125:THR:CG2	1:A:158:LEU:HA	2.43	0.48
1:A:306:GLU:O	1:A:308:ASP:N	2.47	0.48
2:B:44:PRO:HA	2:B:47:LEU:HD12	1.96	0.48
2:B:155:LEU:O	2:B:158:VAL:N	2.47	0.48
2:B:340:ILE:CB	2:B:373:LEU:HG	2.44	0.48
3:M:10:THR:HA	3:M:75:TRP:CE2	2.47	0.48
3:M:10:THR:N	3:M:75:TRP:NE1	2.62	0.48
3:M:260:LEU:O	3:M:286:SER:HB3	2.14	0.48
3:M:300:LEU:HD11	3:M:447:ILE:CD1	2.41	0.48
1:A:100:LEU:CB	1:A:142:LYS:HG3	2.44	0.47
1:A:408:ILE:CD1	1:A:410:TYR:HD1	2.27	0.47
1:A:610:SER:OG	1:A:625:LEU:CD1	2.52	0.47
2:B:136:CYS:HA	2:B:172:GLU:CB	2.41	0.47
2:B:367:SER:O	2:B:368:ILE:C	2.55	0.47
2:B:540:GLU:OE1	2:B:548:ILE:CD1	2.62	0.47
2:B:542:PRO:HB3	2:B:602:ASP:OD1	2.14	0.47
2:B:563:PHE:C	2:B:564:LYS:O	2.56	0.47
3:M:16:PHE:HZ	3:M:18:TYR:CD1	2.32	0.47
3:M:244:VAL:CA	3:M:472:TYR:CG	2.76	0.47
3:M:271:SER:C	3:M:272:LEU:HD12	2.39	0.47
3:M:324:SER:O	3:M:340:LEU:HA	2.14	0.47
1:A:79:MET:HG3	1:A:112:GLN:OE1	2.14	0.47
1:A:216:SER:HB3	4:S:143:GLU:CA	2.13	0.47
1:A:384:LEU:HD12	1:A:385:LYS:N	2.28	0.47
1:A:429:VAL:CG1	1:A:473:ILE:HD11	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:563:CYS:SG	1:A:621:LEU:HG	2.54	0.47
1:A:633:PHE:CA	2:B:554:LYS:HB2	2.15	0.47
2:B:70:MET:HE1	2:B:104:TYR:CA	2.45	0.47
2:B:117:LEU:HD21	2:B:149:SER:HB2	1.92	0.47
2:B:207:VAL:O	2:B:210:CYS:HB2	2.14	0.47
2:B:278:PRO:CA	2:B:288:TYR:HB2	2.29	0.47
2:B:304:GLN:O	2:B:307:ASN:HB2	2.14	0.47
2:B:326:TYR:O	2:B:327:GLN:C	2.56	0.47
2:B:414:GLU:O	2:B:417:TYR:HB3	2.14	0.47
2:B:425:PRO:HD2	2:B:428:VAL:CG2	2.39	0.47
3:M:124:ILE:O	3:M:127:CYS:N	2.47	0.47
3:M:245:ASP:N	3:M:472:TYR:CE2	2.82	0.47
3:M:364:VAL:HG12	3:M:372:ILE:HG13	1.95	0.47
4:S:35:VAL:HG12	4:S:68:VAL:CG1	2.44	0.47
4:S:50:PHE:HB2	4:S:75:ILE:O	2.14	0.47
4:S:50:PHE:HD1	4:S:52:VAL:HG23	1.79	0.47
1:A:102:GLN:C	4:S:167:ILE:HG12	2.32	0.47
1:A:180:LYS:NZ	4:S:156:LEU:HD11	2.29	0.47
1:A:220:SER:CA	4:S:142:ILE:HG22	2.37	0.47
1:A:291:ILE:H	1:A:291:ILE:CD1	2.28	0.47
2:B:42:ILE:HD13	2:B:65:ARG:CD	2.39	0.47
2:B:260:LEU:HA	2:B:291:TYR:CZ	2.49	0.47
2:B:588:ILE:HG21	2:B:618:PHE:HE1	1.79	0.47
3:M:8:THR:CA	3:M:13:LYS:O	2.62	0.47
3:M:215:TYR:HD2	3:M:469:GLY:C	2.23	0.47
3:M:223:HIS:N	3:M:239:SER:O	2.46	0.47
3:M:240:ILE:HG21	3:M:444:ALA:O	2.14	0.47
3:M:252:ASP:O	3:M:254:PRO:HD2	2.14	0.47
1:A:63:ASP:C	1:A:63:ASP:OD1	2.57	0.47
1:A:182:ILE:HG23	1:A:221:VAL:HG21	1.83	0.47
1:A:588:LEU:O	1:A:590:TYR:N	2.47	0.47
2:B:159:LYS:HD2	2:B:191:GLU:CD	2.39	0.47
2:B:279:LEU:HD12	2:B:288:TYR:HE1	1.79	0.47
2:B:494:ALA:CB	2:B:529:VAL:HG22	2.45	0.47
2:B:520:SER:C	2:B:523:PHE:HD2	2.22	0.47
3:M:7:ILE:HG23	3:M:75:TRP:C	2.38	0.47
3:M:8:THR:O	3:M:75:TRP:HB2	2.14	0.47
3:M:60:LEU:CD2	3:M:60:LEU:C	2.87	0.47
3:M:226:PHE:CE2	3:M:235:LEU:HB2	2.50	0.47
3:M:235:LEU:CD1	3:M:306:LEU:HD13	2.44	0.47
4:S:4:ALA:CB	4:S:19:PHE:CD2	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:101:LEU:HD11	4:S:136:VAL:HG22	1.96	0.47
1:A:270:LEU:CD1	1:A:274:LEU:CD2	2.92	0.47
1:A:375:VAL:O	1:A:376:GLU:C	2.57	0.47
2:B:127:LEU:CB	2:B:161:LEU:CD1	2.63	0.47
2:B:167:ALA:O	2:B:202:ASP:CG	2.56	0.47
2:B:230:PHE:HB3	2:B:298:ASP:CG	2.38	0.47
2:B:352:ASN:ND2	2:B:355:ASN:HB2	2.30	0.47
2:B:534:ILE:O	2:B:598:LEU:CD1	2.56	0.47
2:B:566:ALA:HB1	2:B:581:TYR:HA	1.95	0.47
3:M:6:TYR:HD2	3:M:16:PHE:O	1.94	0.47
3:M:218:LEU:HD12	3:M:218:LEU:H	1.80	0.47
4:S:101:LEU:HG	4:S:135:ILE:HG21	1.96	0.47
4:S:127:THR:HG21	4:S:157:ASN:OD1	2.15	0.47
1:A:489:GLU:HB2	1:A:525:LEU:HD21	1.96	0.47
1:A:586:GLU:O	1:A:588:LEU:N	2.44	0.47
2:B:25:VAL:HG22	2:B:36:THR:N	2.30	0.47
2:B:42:ILE:CD1	2:B:65:ARG:CD	2.81	0.47
2:B:42:ILE:HG23	2:B:46:GLN:OE1	2.14	0.47
2:B:232:ARG:O	2:B:236:ILE:N	2.43	0.47
2:B:243:TRP:HZ3	3:M:91:THR:CA	2.12	0.47
2:B:274:PRO:CB	2:B:295:ASN:HD21	2.28	0.47
3:M:62:VAL:O	3:M:64:LYS:HG3	2.15	0.47
3:M:273:HIS:HB3	3:M:276:VAL:HG23	1.97	0.47
3:M:336:ASP:CG	3:M:415:ILE:HB	2.37	0.47
3:M:473:LYS:C	3:M:474:THR:CG2	2.86	0.47
1:A:102:GLN:N	4:S:163:THR:C	2.71	0.47
1:A:156:PRO:O	1:A:160:ARG:CG	2.62	0.47
1:A:178:ARG:O	1:A:182:ILE:HG13	2.15	0.47
1:A:220:SER:CB	4:S:142:ILE:HG23	2.27	0.47
1:A:250:ASN:CG	1:A:285:THR:HB	2.40	0.47
1:A:316:LEU:HD21	1:A:341:ILE:HG13	1.95	0.47
1:A:388:VAL:HG22	1:A:435:ILE:HD12	1.96	0.47
1:A:563:CYS:O	1:A:566:PHE:CE2	2.68	0.47
1:A:569:ASP:C	1:A:571:ARG:N	2.65	0.47
1:A:609:LEU:HD12	1:A:625:LEU:HD12	1.96	0.47
2:B:37:TYR:HE2	2:B:46:GLN:OE1	1.97	0.47
2:B:51:LEU:HD11	2:B:66:ILE:HD13	1.95	0.47
2:B:117:LEU:O	2:B:120:ILE:HB	2.14	0.47
2:B:140:SER:CB	2:B:172:GLU:OE2	2.55	0.47
2:B:174:ALA:C	2:B:214:ALA:HB2	2.40	0.47
2:B:216:LYS:CG	2:B:251:LEU:HA	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:523:PHE:HD1	2:B:559:ASP:OD2	1.97	0.47
2:B:534:ILE:HG12	2:B:595:VAL:CG2	2.44	0.47
2:B:585:GLY:O	2:B:589:SER:CB	2.63	0.47
3:M:222:PHE:CD2	3:M:439:TYR:CZ	3.02	0.47
3:M:243:ILE:H	3:M:474:THR:HG21	1.64	0.47
3:M:243:ILE:C	3:M:472:TYR:CD2	2.89	0.47
3:M:244:VAL:O	3:M:299:LEU:CB	2.62	0.47
3:M:276:VAL:CG1	3:M:299:LEU:HD12	2.45	0.47
3:M:348:LYS:HA	3:M:406:GLY:N	2.30	0.47
3:M:353:VAL:HG11	3:M:356:LEU:HB2	1.97	0.47
3:M:362:PHE:CE1	3:M:374:TYR:CZ	3.03	0.47
4:S:85:PHE:CE2	4:S:109:LEU:CD2	2.85	0.47
4:S:112:CYS:SG	4:S:153:VAL:CG2	2.99	0.47
1:A:67:LYS:O	4:S:166:LYS:HA	2.13	0.47
1:A:77:LEU:O	1:A:80:TYR:HB2	2.15	0.47
1:A:114:PHE:CE2	1:A:153:ILE:HA	2.50	0.47
1:A:220:SER:HB2	4:S:142:ILE:CA	2.43	0.47
2:B:94:ASP:OD1	2:B:95:THR:N	2.47	0.47
2:B:95:THR:HG23	2:B:168:MET:HE1	1.97	0.47
2:B:213:LEU:HD21	2:B:247:TYR:CG	2.50	0.47
2:B:279:LEU:O	2:B:280:PRO:C	2.52	0.47
2:B:307:ASN:O	2:B:308:CYS:C	2.57	0.47
2:B:334:MET:HE1	2:B:339:PHE:CE1	2.48	0.47
2:B:389:ILE:HG21	2:B:427:ASN:HD22	1.80	0.47
2:B:515:PHE:HA	2:B:518:ILE:HG22	1.97	0.47
3:M:72:LEU:HD11	3:M:101:LEU:HD22	1.97	0.47
4:S:69:ASN:O	4:S:70:ASN:HB3	2.14	0.47
1:A:114:PHE:CE1	1:A:153:ILE:HG23	2.50	0.47
1:A:147:LEU:CD1	1:A:166:LEU:HD23	2.44	0.47
1:A:182:ILE:HG21	1:A:217:ALA:C	2.39	0.47
1:A:189:PHE:HD2	1:A:225:LEU:CG	2.27	0.47
1:A:530:ASN:OD1	1:A:577:VAL:CG2	2.63	0.47
2:B:139:LEU:O	2:B:176:ALA:HB2	2.14	0.47
2:B:143:SER:CA	2:B:179:LYS:CB	2.90	0.47
2:B:175:LEU:CD1	2:B:210:CYS:CB	2.89	0.47
2:B:219:TYR:CB	2:B:223:LEU:HD21	2.20	0.47
2:B:245:GLN:CB	2:B:309:LEU:CD1	2.93	0.47
2:B:267:ASP:CB	2:B:289:PRO:HB3	2.45	0.47
2:B:399:LEU:O	2:B:401:THR:N	2.48	0.47
3:M:222:PHE:C	3:M:479:PHE:HZ	2.04	0.47
3:M:224:VAL:CB	3:M:479:PHE:CD1	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:306:LEU:CD1	3:M:317:MET:HE1	2.44	0.47
4:S:56:SER:C	4:S:57:LEU:HD12	2.39	0.47
4:S:122:ILE:O	4:S:123:PHE:C	2.56	0.47
1:A:408:ILE:HD12	1:A:410:TYR:HD1	1.77	0.47
1:A:476:GLN:OE1	1:A:476:GLN:HA	2.15	0.47
1:A:594:PHE:CB	2:B:473:ASN:HB3	2.22	0.47
2:B:38:TYR:HB3	2:B:42:ILE:HD12	1.45	0.47
2:B:174:ALA:HB1	2:B:211:ALA:HB1	1.94	0.47
2:B:215:TYR:CE2	2:B:229:HIS:CG	3.02	0.47
2:B:299:LEU:HD21	2:B:328:LEU:HD13	1.98	0.47
2:B:553:ALA:O	2:B:556:LEU:HB2	2.15	0.47
3:M:5:PHE:HB2	3:M:125:PHE:HE2	1.77	0.47
3:M:215:TYR:CE1	3:M:468:LYS:CA	2.90	0.47
3:M:270:PRO:CA	3:M:302:TYR:HD1	2.28	0.47
3:M:421:GLY:O	3:M:423:ASN:N	2.48	0.47
3:M:457:GLY:C	3:M:458:LEU:O	2.49	0.47
3:M:473:LYS:O	3:M:474:THR:HG22	2.15	0.47
1:A:100:LEU:CD1	4:S:161:GLU:H	2.28	0.46
1:A:141:VAL:HB	4:S:159:ALA:CB	2.38	0.46
1:A:219:VAL:HG21	1:A:256:LEU:HD23	1.86	0.46
1:A:335:CYS:O	1:A:338:PHE:HB2	2.15	0.46
1:A:491:THR:O	1:A:495:ILE:HG12	2.15	0.46
1:A:557:LYS:CG	2:B:606:ASP:CB	2.93	0.46
1:A:636:TYR:HD2	2:B:513:TRP:HZ2	1.63	0.46
2:B:4:SER:O	2:B:8:ILE:CG1	2.63	0.46
2:B:195:ILE:O	2:B:196:LEU:C	2.55	0.46
2:B:196:LEU:HD13	2:B:215:TYR:CE2	2.50	0.46
2:B:212:VAL:N	2:B:233:TYR:CZ	2.83	0.46
2:B:328:LEU:O	2:B:329:ALA:C	2.50	0.46
2:B:562:ASN:CG	2:B:580:TYR:CG	2.92	0.46
3:M:217:ASP:CB	3:M:471:LYS:N	2.54	0.46
3:M:223:HIS:CA	3:M:479:PHE:CG	2.86	0.46
3:M:375:LYS:CG	3:M:418:GLU:OE1	2.63	0.46
4:S:14:PRO:C	4:S:15:ARG:HG2	2.40	0.46
4:S:35:VAL:HG12	4:S:68:VAL:HG11	1.96	0.46
4:S:53:THR:HG22	4:S:57:LEU:CB	2.26	0.46
1:A:170:LEU:HB3	1:A:202:LYS:HG3	1.98	0.46
1:A:226:SER:HB3	1:A:263:LEU:HD21	1.97	0.46
1:A:316:LEU:CD1	1:A:341:ILE:HG21	2.42	0.46
1:A:349:ILE:O	1:A:350:SER:C	2.56	0.46
1:A:403:LEU:CD2	1:A:422:GLU:OE2	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:636:TYR:H	2:B:554:LYS:CE	2.27	0.46
2:B:13:ASP:O	2:B:14:THR:C	2.59	0.46
2:B:97:VAL:HG12	2:B:101:ILE:CD1	2.45	0.46
2:B:115:LEU:HD13	2:B:115:LEU:HA	1.83	0.46
2:B:151:ALA:C	2:B:153:ILE:H	2.24	0.46
2:B:176:ALA:O	2:B:178:ILE:C	2.58	0.46
2:B:216:LYS:HB2	2:B:251:LEU:HB2	1.96	0.46
2:B:261:PRO:HD2	2:B:293:VAL:HG23	1.97	0.46
2:B:592:TYR:CE1	2:B:615:SER:CB	2.98	0.46
3:M:290:PHE:CE2	3:M:297:PHE:CE1	3.00	0.46
3:M:323:MET:HE2	3:M:437:TYR:HE2	1.81	0.46
3:M:325:LEU:HG	3:M:338:PHE:HD1	1.80	0.46
3:M:339:GLU:CG	3:M:412:ARG:HD3	2.39	0.46
4:S:17:VAL:HB	4:S:32:LEU:HD11	1.98	0.46
1:A:105:VAL:N	4:S:167:ILE:HD12	1.98	0.46
1:A:435:ILE:CG2	1:A:441:TYR:CE2	2.98	0.46
1:A:515:CYS:O	1:A:519:LEU:HG	2.15	0.46
2:B:96:LYS:O	2:B:99:ARG:HB3	2.16	0.46
2:B:403:ILE:CG2	2:B:411:ILE:CD1	2.92	0.46
2:B:546:CYS:N	2:B:607:ILE:HG21	2.31	0.46
2:B:592:TYR:O	2:B:595:VAL:HB	2.16	0.46
2:B:604:GLU:HB3	2:B:607:ILE:HD12	1.97	0.46
3:M:245:ASP:C	3:M:246:VAL:HG23	2.40	0.46
3:M:360:LEU:HD13	3:M:433:VAL:HG23	1.95	0.46
4:S:47:GLN:NE2	4:S:47:GLN:C	2.73	0.46
4:S:47:GLN:HE22	4:S:78:LYS:C	2.22	0.46
1:A:196:LEU:C	1:A:196:LEU:CD2	2.85	0.46
1:A:251:TRP:NE1	4:S:104:THR:HA	2.29	0.46
1:A:287:ALA:HB3	1:A:288:THR:CA	2.45	0.46
1:A:287:ALA:CB	1:A:289:SER:HB3	2.44	0.46
1:A:300:LYS:O	1:A:301:GLY:C	2.55	0.46
2:B:63:MET:O	2:B:63:MET:HE3	2.15	0.46
2:B:102:HIS:HA	2:B:141:ALA:HB2	1.97	0.46
2:B:170:ARG:O	2:B:171:GLY:C	2.58	0.46
2:B:307:ASN:O	2:B:309:LEU:N	2.49	0.46
2:B:437:SER:HA	2:B:478:LEU:CG	2.45	0.46
2:B:537:PHE:CG	2:B:598:LEU:HD13	2.36	0.46
2:B:559:ASP:O	2:B:562:ASN:HB2	2.15	0.46
3:M:17:GLN:N	3:M:118:TYR:CE1	2.74	0.46
3:M:220:GLU:HB2	3:M:222:PHE:CE1	2.46	0.46
3:M:220:GLU:OE2	3:M:439:TYR:CG	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:449:VAL:HG12	3:M:452:ILE:HD12	1.91	0.46
1:A:96:SER:H	1:A:127:LEU:CD2	1.79	0.46
1:A:129:LYS:HG2	1:A:165:ASP:OD2	2.16	0.46
1:A:481:MET:HE1	1:A:518:CYS:HB3	1.97	0.46
1:A:537:THR:CB	1:A:584:PHE:CZ	2.97	0.46
2:B:59:VAL:O	2:B:63:MET:HB2	2.15	0.46
2:B:132:SER:O	2:B:169:VAL:HG22	2.16	0.46
2:B:143:SER:HB2	2:B:179:LYS:CD	2.45	0.46
2:B:169:VAL:HG12	2:B:173:VAL:HG23	1.94	0.46
2:B:223:LEU:HB3	2:B:259:TYR:CB	2.46	0.46
2:B:285:GLU:CD	2:B:285:GLU:N	2.73	0.46
2:B:355:ASN:O	2:B:358:MET:N	2.49	0.46
2:B:513:TRP:H	2:B:551:LEU:HD11	1.61	0.46
2:B:546:CYS:N	2:B:607:ILE:HD13	2.30	0.46
3:M:217:ASP:CB	3:M:470:ALA:CA	2.89	0.46
3:M:224:VAL:HG11	3:M:235:LEU:HD12	1.98	0.46
3:M:240:ILE:CG2	3:M:444:ALA:HA	2.45	0.46
3:M:338:PHE:CD2	3:M:415:ILE:HD11	2.50	0.46
1:A:103:LYS:O	1:A:107:TYR:CG	2.61	0.46
1:A:323:CYS:HB2	1:A:355:LEU:HD21	1.96	0.46
1:A:409:VAL:O	1:A:409:VAL:CG1	2.63	0.46
1:A:558:VAL:C	1:A:560:SER:N	2.73	0.46
2:B:20:ARG:CD	2:B:35:TYR:OH	2.31	0.46
2:B:59:VAL:O	2:B:59:VAL:HG12	2.16	0.46
2:B:124:GLN:HA	2:B:157:THR:HG1	1.66	0.46
2:B:136:CYS:HB3	2:B:172:GLU:HG3	1.97	0.46
2:B:199:LEU:O	2:B:201:ALA:CA	2.59	0.46
2:B:219:TYR:HE2	2:B:226:LEU:H	1.48	0.46
2:B:461:HIS:CB	2:B:463:LEU:CD2	2.94	0.46
2:B:477:MET:O	2:B:480:GLN:CB	2.58	0.46
2:B:497:LEU:HD13	2:B:503:LEU:HD12	1.97	0.46
2:B:559:ASP:CG	2:B:563:PHE:CE1	2.92	0.46
2:B:564:LYS:O	2:B:574:ASN:ND2	2.47	0.46
2:B:569:THR:HA	2:B:571:SER:H	1.80	0.46
3:M:130:GLU:OE1	3:M:130:GLU:HA	2.16	0.46
3:M:319:SER:HB2	3:M:346:ASN:C	2.40	0.46
1:A:95:MET:CB	1:A:127:LEU:HD23	2.46	0.46
1:A:128:LEU:CD1	1:A:150:LEU:HG	2.29	0.46
1:A:287:ALA:N	1:A:288:THR:HA	2.31	0.46
2:B:143:SER:CB	2:B:175:LEU:HB3	2.45	0.46
2:B:177:ILE:HB	2:B:196:LEU:CD2	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:458:MET:C	2:B:460:SER:N	2.73	0.46
2:B:490:ILE:CD1	2:B:518:ILE:HG21	2.45	0.46
3:M:235:LEU:HD11	3:M:306:LEU:HB2	1.94	0.46
3:M:290:PHE:HD1	3:M:299:LEU:CD1	2.28	0.46
1:A:166:LEU:HD12	1:A:185:LEU:HD21	1.95	0.46
1:A:166:LEU:HB2	1:A:185:LEU:HD21	1.98	0.46
1:A:320:HIS:N	1:A:338:PHE:HZ	2.14	0.46
1:A:384:LEU:HD21	1:A:441:TYR:CD2	2.49	0.46
2:B:56:SER:O	2:B:97:VAL:HG21	2.15	0.46
2:B:106:LEU:CG	2:B:144:ASP:HB2	2.43	0.46
2:B:120:ILE:HG13	2:B:150:LEU:CD2	2.44	0.46
2:B:215:TYR:HB3	2:B:226:LEU:HD13	1.87	0.46
2:B:257:LYS:HA	2:B:260:LEU:HG	1.97	0.46
2:B:389:ILE:HG22	2:B:393:ILE:HD11	1.98	0.46
2:B:487:LEU:CD2	2:B:522:GLU:HB3	2.29	0.46
2:B:556:LEU:HD22	2:B:588:ILE:CG1	2.07	0.46
2:B:574:ASN:O	2:B:575:ASN:C	2.50	0.46
2:B:617:LEU:O	2:B:618:PHE:C	2.58	0.46
3:M:246:VAL:CA	3:M:470:ALA:HB1	2.45	0.46
3:M:258:VAL:CG1	3:M:452:ILE:HG13	2.45	0.46
3:M:435:LEU:HD12	3:M:435:LEU:N	2.31	0.46
4:S:135:ILE:O	4:S:141:VAL:CB	2.62	0.46
1:A:252:ILE:HG13	4:S:145:ASN:HA	1.67	0.46
1:A:562:TRP:CE3	1:A:574:ILE:HD12	2.51	0.46
1:A:609:LEU:C	1:A:611:LEU:N	2.73	0.46
1:A:633:PHE:CB	2:B:554:LYS:HB2	2.45	0.46
2:B:36:THR:O	2:B:40:GLN:CG	2.64	0.46
2:B:77:ILE:HG23	2:B:82:TYR:HE1	1.71	0.46
2:B:98:LYS:HZ2	2:B:134:LEU:C	2.23	0.46
2:B:267:ASP:CB	2:B:289:PRO:HG3	2.46	0.46
2:B:319:LEU:C	2:B:321:CYS:N	2.73	0.46
3:M:311:LYS:O	3:M:312:GLN:C	2.55	0.46
3:M:356:LEU:HD23	3:M:358:ILE:HG13	1.93	0.46
4:S:127:THR:CG2	4:S:157:ASN:OD1	2.64	0.46
4:S:160:ALA:HB1	4:S:167:ILE:HG21	1.96	0.46
1:A:67:LYS:CG	1:A:94:VAL:HG22	2.45	0.46
1:A:95:MET:C	1:A:127:LEU:HD23	2.33	0.46
1:A:132:LEU:HD12	1:A:165:ASP:CB	2.45	0.46
1:A:163:ALA:C	1:A:165:ASP:N	2.71	0.46
1:A:287:ALA:CB	1:A:288:THR:C	2.86	0.46
2:B:14:THR:O	2:B:16:LYS:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:87:VAL:HG21	2:B:119:SER:HA	1.98	0.46
2:B:159:LYS:CD	2:B:191:GLU:CD	2.89	0.46
2:B:175:LEU:HD21	2:B:210:CYS:O	2.02	0.46
2:B:215:TYR:O	2:B:219:TYR:CD1	2.67	0.46
2:B:252:LEU:CG	2:B:302:PHE:CE1	2.94	0.46
2:B:433:VAL:HG12	2:B:474:VAL:CG1	2.43	0.46
2:B:493:LEU:HD21	2:B:511:ILE:CG1	2.46	0.46
3:M:18:TYR:CE2	3:M:20:LEU:HD23	2.43	0.46
3:M:429:ASP:O	3:M:430:LEU:C	2.57	0.46
4:S:34:GLN:CG	4:S:58:LEU:HD11	2.45	0.46
4:S:51:LEU:H	4:S:77:TYR:HE1	1.64	0.46
1:A:121:LEU:HD13	1:A:155:THR:HG21	1.97	0.45
1:A:128:LEU:CB	1:A:150:LEU:HD21	2.46	0.45
1:A:132:LEU:CD2	1:A:169:MET:SD	3.04	0.45
1:A:200:PHE:CE1	1:A:236:LEU:HG	2.51	0.45
1:A:353:ASP:OD1	1:A:378:ILE:HD12	2.16	0.45
1:A:401:VAL:HG23	1:A:419:ILE:HB	1.98	0.45
1:A:401:VAL:HG12	1:A:402:ILE:N	2.30	0.45
1:A:404:GLN:OE1	2:B:7:ARG:NH1	2.50	0.45
1:A:480:LEU:C	1:A:480:LEU:CD1	2.88	0.45
2:B:106:LEU:HD11	2:B:144:ASP:C	2.29	0.45
2:B:143:SER:CA	2:B:179:LYS:CD	2.80	0.45
2:B:178:ILE:HG23	2:B:218:CYS:N	2.30	0.45
2:B:523:PHE:CD1	2:B:559:ASP:OD2	2.69	0.45
2:B:537:PHE:HA	2:B:540:GLU:CD	2.40	0.45
3:M:67:SER:HB3	3:M:90:PHE:HD1	1.70	0.45
3:M:216:VAL:O	3:M:216:VAL:CG2	2.64	0.45
3:M:220:GLU:CD	3:M:439:TYR:HB2	2.41	0.45
3:M:228:LYS:NZ	3:M:327:PHE:N	2.63	0.45
3:M:319:SER:HB2	3:M:346:ASN:N	2.26	0.45
4:S:50:PHE:CA	4:S:76:ILE:HA	2.46	0.45
1:A:74:LEU:HD22	1:A:87:CYS:HB3	1.96	0.45
1:A:95:MET:SD	1:A:107:TYR:CE2	3.09	0.45
1:A:105:VAL:CG2	4:S:167:ILE:CG1	2.71	0.45
1:A:264:SER:HB2	1:A:271:ARG:HG3	1.92	0.45
1:A:533:ILE:CG1	1:A:562:TRP:HH2	2.12	0.45
1:A:633:PHE:CZ	2:B:513:TRP:HE3	2.13	0.45
2:B:29:LYS:HE2	2:B:30:LEU:CB	2.46	0.45
2:B:106:LEU:HD22	2:B:144:ASP:CB	2.45	0.45
2:B:121:ASN:N	2:B:153:ILE:HD13	2.31	0.45
2:B:215:TYR:CE2	2:B:229:HIS:HB2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:231:ARG:C	2:B:233:TYR:H	2.24	0.45
2:B:381:PHE:O	2:B:383:VAL:N	2.49	0.45
2:B:468:LEU:HD13	2:B:507:ALA:HB2	1.96	0.45
2:B:512:VAL:CG2	2:B:548:ILE:HG12	2.39	0.45
2:B:538:SER:N	2:B:598:LEU:HD22	2.32	0.45
3:M:323:MET:CG	3:M:342:LEU:HG	2.46	0.45
1:A:224:GLU:O	1:A:227:LYS:N	2.46	0.45
1:A:320:HIS:CB	1:A:352:PHE:CE2	2.84	0.45
1:A:588:LEU:C	1:A:590:TYR:N	2.72	0.45
1:A:609:LEU:CG	1:A:628:VAL:CG2	2.92	0.45
1:A:611:LEU:HD23	1:A:611:LEU:C	2.42	0.45
1:A:631:SER:HA	2:B:554:LYS:HA	1.98	0.45
2:B:127:LEU:HD12	2:B:157:THR:CB	2.43	0.45
2:B:133:GLU:O	2:B:168:MET:SD	2.74	0.45
2:B:193:LEU:HB3	2:B:225:LEU:HD11	0.97	0.45
2:B:381:PHE:HD2	2:B:395:LYS:NZ	2.13	0.45
2:B:418:TYR:CG	2:B:419:VAL:N	2.83	0.45
3:M:111:ILE:HA	3:M:114:ILE:HD12	1.98	0.45
3:M:222:PHE:HB3	3:M:479:PHE:CE1	2.52	0.45
3:M:347:PHE:CZ	3:M:439:TYR:HD2	2.33	0.45
4:S:135:ILE:HG23	4:S:141:VAL:HG11	1.93	0.45
4:S:151:ALA:O	4:S:154:ASP:HB2	2.16	0.45
1:A:102:GLN:HA	4:S:167:ILE:N	2.32	0.45
1:A:259:LEU:HD23	1:A:259:LEU:C	2.41	0.45
1:A:287:ALA:H	1:A:288:THR:HA	1.81	0.45
1:A:586:GLU:CA	1:A:604:LEU:CD1	2.94	0.45
2:B:278:PRO:CB	2:B:289:PRO:O	2.64	0.45
2:B:325:LEU:HD22	2:B:339:PHE:CE2	2.52	0.45
2:B:588:ILE:O	2:B:591:MET:HB2	2.15	0.45
3:M:128:CYS:O	3:M:131:ALA:HB3	2.16	0.45
3:M:374:TYR:HH	3:M:394:GLN:C	2.19	0.45
3:M:378:ILE:HB	3:M:413:GLY:CA	2.44	0.45
3:M:478:ASN:C	3:M:479:PHE:O	2.59	0.45
4:S:27:LYS:O	4:S:31:LEU:HG	2.17	0.45
4:S:135:ILE:O	4:S:140:MET:O	2.34	0.45
1:A:88:ASN:OD1	1:A:120:ILE:HG21	2.16	0.45
1:A:129:LYS:CG	1:A:161:ASP:HB3	2.47	0.45
1:A:215:VAL:O	1:A:219:VAL:CG2	2.61	0.45
1:A:225:LEU:CG	1:A:233:PHE:CZ	2.99	0.45
1:A:376:GLU:CD	1:A:376:GLU:N	2.73	0.45
1:A:482:ILE:CG1	1:A:517:TRP:CZ3	2.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:555:LEU:HD12	1:A:585:PHE:CZ	2.52	0.45
2:B:37:TYR:O	2:B:40:GLN:C	2.59	0.45
2:B:63:MET:HG2	2:B:100:LEU:CB	2.46	0.45
3:M:215:TYR:CB	3:M:468:LYS:CA	2.92	0.45
3:M:224:VAL:CG1	3:M:235:LEU:HG	2.46	0.45
3:M:290:PHE:CD1	3:M:297:PHE:CD1	2.90	0.45
3:M:319:SER:O	3:M:320:ILE:HD13	2.16	0.45
3:M:322:LEU:C	3:M:322:LEU:HD23	2.42	0.45
4:S:53:THR:HG22	4:S:54:PRO:O	2.17	0.45
4:S:70:ASN:HB3	4:S:73:ILE:HB	1.96	0.45
4:S:90:ASP:C	4:S:92:GLN:H	2.25	0.45
4:S:129:GLU:O	4:S:132:LEU:HB3	2.17	0.45
1:A:141:VAL:HB	4:S:159:ALA:HB2	1.97	0.45
1:A:150:LEU:HD22	1:A:162:ILE:CD1	2.46	0.45
1:A:179:LYS:HD2	4:S:143:GLU:HB2	1.89	0.45
1:A:232:PRO:O	1:A:235:GLN:HB2	2.16	0.45
1:A:433:ILE:HD11	1:A:473:ILE:CG1	2.47	0.45
1:A:617:ASP:OD1	1:A:618:THR:N	2.45	0.45
1:A:638:LEU:HD21	2:B:523:PHE:HB3	1.93	0.45
2:B:47:LEU:HD21	2:B:66:ILE:N	2.31	0.45
2:B:97:VAL:HG12	2:B:101:ILE:HD12	1.98	0.45
2:B:196:LEU:O	2:B:197:LYS:O	2.35	0.45
2:B:241:ASP:HB2	3:M:274:ASP:OD1	2.16	0.45
2:B:279:LEU:CD1	2:B:288:TYR:CE1	2.99	0.45
2:B:416:LYS:HE3	2:B:453:TRP:CZ3	2.52	0.45
2:B:463:LEU:HD13	2:B:467:VAL:HG11	1.99	0.45
2:B:511:ILE:O	2:B:515:PHE:CD1	2.66	0.45
3:M:222:PHE:CE2	3:M:240:ILE:HD13	2.52	0.45
3:M:242:GLY:O	3:M:302:TYR:N	2.50	0.45
3:M:246:VAL:CA	3:M:470:ALA:CB	2.80	0.45
4:S:14:PRO:CB	4:S:36:TYR:HE1	2.25	0.45
4:S:47:GLN:HG2	4:S:84:TYR:HE2	1.81	0.45
1:A:102:GLN:CG	4:S:164:ASP:C	2.89	0.45
1:A:135:ASP:O	1:A:139:ASP:HB3	2.16	0.45
1:A:145:ILE:C	1:A:147:LEU:N	2.72	0.45
1:A:170:LEU:HD13	1:A:170:LEU:HA	1.82	0.45
1:A:251:TRP:CD1	4:S:104:THR:HG1	2.29	0.45
1:A:395:PHE:CD1	1:A:428:MET:HG3	2.51	0.45
1:A:631:SER:HB2	2:B:557:SER:HB3	1.88	0.45
2:B:79:VAL:HG21	2:B:108:PHE:CE1	2.39	0.45
2:B:117:LEU:CD2	2:B:149:SER:CB	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:132:SER:C	2:B:169:VAL:HG23	2.41	0.45
2:B:136:CYS:SG	2:B:168:MET:CB	3.05	0.45
2:B:155:LEU:HD21	2:B:191:GLU:HB2	1.97	0.45
2:B:467:VAL:HG12	2:B:471:TYR:CD1	2.51	0.45
2:B:498:THR:HG22	2:B:532:ARG:HB3	1.98	0.45
3:M:222:PHE:CD2	3:M:439:TYR:OH	2.70	0.45
1:A:464:ILE:O	1:A:464:ILE:HG12	2.17	0.45
1:A:600:SER:O	1:A:602:GLU:N	2.50	0.45
2:B:74:ASP:O	2:B:77:ILE:HB	2.17	0.45
2:B:106:LEU:CD2	2:B:144:ASP:HB3	2.42	0.45
2:B:196:LEU:CA	2:B:229:HIS:CE1	2.99	0.45
2:B:257:LYS:HA	2:B:260:LEU:HD11	1.99	0.45
2:B:259:TYR:O	2:B:260:LEU:HB2	2.16	0.45
2:B:266:VAL:HG13	2:B:291:TYR:N	2.24	0.45
2:B:292:GLU:HG3	2:B:295:ASN:O	2.17	0.45
2:B:296:ASP:C	2:B:298:ASP:N	2.72	0.45
2:B:387:ASP:CB	2:B:388:PRO:HD2	2.45	0.45
2:B:390:VAL:CG1	2:B:394:TRP:NE1	2.80	0.45
2:B:544:THR:HG22	2:B:548:ILE:HD11	1.99	0.45
3:M:376:ILE:HG22	3:M:379:LEU:HD11	1.97	0.45
4:S:118:GLU:O	4:S:122:ILE:HG13	2.16	0.45
1:A:63:ASP:OD1	1:A:64:LEU:N	2.50	0.45
1:A:149:GLY:C	1:A:151:SER:N	2.72	0.45
1:A:167:PHE:O	1:A:168:THR:C	2.59	0.45
1:A:566:PHE:CZ	1:A:618:THR:C	2.89	0.45
2:B:139:LEU:CD2	2:B:173:VAL:CG1	2.95	0.45
2:B:425:PRO:HB2	2:B:428:VAL:HG23	1.97	0.45
2:B:513:TRP:HE1	2:B:517:GLU:CG	2.30	0.45
2:B:534:ILE:HD12	2:B:591:MET:HA	1.71	0.45
3:M:215:TYR:HB2	3:M:467:TYR:CB	2.47	0.45
3:M:344:ILE:O	3:M:406:GLY:HA2	2.17	0.45
4:S:55:PRO:HB3	4:S:71:GLU:CA	2.46	0.45
4:S:85:PHE:HE2	4:S:109:LEU:HD22	1.81	0.45
4:S:93:GLU:HB3	4:S:98:ILE:HD11	1.98	0.45
1:A:67:LYS:CA	4:S:166:LYS:HA	2.45	0.45
1:A:145:ILE:HD11	4:S:156:LEU:HD22	1.93	0.45
1:A:211:ASP:OD2	4:S:148:ARG:CZ	2.57	0.45
1:A:298:ILE:HG21	1:A:312:ALA:HB2	1.99	0.45
1:A:566:PHE:CE1	1:A:570:LYS:HB3	2.52	0.45
1:A:633:PHE:CG	2:B:550:VAL:O	2.68	0.45
2:B:132:SER:CB	2:B:169:VAL:HG23	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:277:CYS:C	2:B:292:GLU:CG	2.90	0.45
2:B:306:LEU:HD22	2:B:321:CYS:CA	2.45	0.45
2:B:314:ASN:O	2:B:317:VAL:HB	2.17	0.45
2:B:565:GLN:C	2:B:574:ASN:HD21	2.20	0.45
3:M:52:ASP:CA	3:M:67:SER:HA	2.46	0.45
3:M:347:PHE:CZ	3:M:352:GLN:O	2.70	0.45
3:M:430:LEU:HD23	3:M:483:LEU:HD13	1.98	0.45
1:A:150:LEU:HD22	1:A:162:ILE:HD11	1.99	0.44
1:A:249:ASN:OD1	1:A:251:TRP:N	2.45	0.44
1:A:292:TYR:O	1:A:292:TYR:HD1	1.96	0.44
1:A:388:VAL:HG22	1:A:435:ILE:CD1	2.47	0.44
1:A:396:VAL:O	1:A:396:VAL:CG1	2.65	0.44
1:A:453:VAL:O	1:A:457:LEU:HG	2.16	0.44
1:A:464:ILE:O	1:A:464:ILE:HG23	2.17	0.44
1:A:594:PHE:O	1:A:598:GLU:HG2	2.17	0.44
2:B:208:ILE:CB	2:B:236:ILE:HG21	2.46	0.44
2:B:251:LEU:C	2:B:253:ILE:N	2.75	0.44
2:B:279:LEU:CD1	2:B:288:TYR:CD1	3.00	0.44
2:B:296:ASP:C	2:B:298:ASP:H	2.25	0.44
2:B:419:VAL:HG11	2:B:457:HIS:NE2	2.31	0.44
3:M:218:LEU:HD12	3:M:472:TYR:OH	2.16	0.44
3:M:220:GLU:HG3	3:M:439:TYR:CG	2.51	0.44
3:M:224:VAL:CB	3:M:226:PHE:CE1	2.99	0.44
3:M:253:ASN:OD1	3:M:292:PRO:HD2	2.16	0.44
3:M:257:ALA:C	3:M:452:ILE:HG23	2.37	0.44
3:M:261:ASN:CG	3:M:262:THR:N	2.74	0.44
4:S:15:ARG:NE	4:S:122:ILE:HD11	2.29	0.44
1:A:100:LEU:HB3	1:A:142:LYS:CG	2.47	0.44
1:A:103:LYS:O	1:A:104:ARG:O	2.35	0.44
1:A:141:VAL:HG13	4:S:156:LEU:HA	0.85	0.44
1:A:213:SER:O	4:S:143:GLU:CB	2.63	0.44
1:A:326:GLN:HG2	1:A:331:ARG:NH2	2.32	0.44
1:A:446:ASP:O	1:A:447:PHE:C	2.56	0.44
1:A:609:LEU:CG	1:A:628:VAL:HG11	2.48	0.44
1:A:638:LEU:HD13	2:B:519:ALA:HB2	1.37	0.44
2:B:162:VAL:HG13	2:B:198:GLU:HB3	1.98	0.44
2:B:201:ALA:HA	2:B:232:ARG:HG2	1.99	0.44
2:B:374:PHE:CZ	2:B:381:PHE:HD1	2.26	0.44
2:B:436:LEU:HB3	2:B:450:VAL:CG1	2.47	0.44
2:B:526:CYS:HB2	2:B:555:LEU:HD11	1.98	0.44
2:B:592:TYR:CE1	2:B:615:SER:HB3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:592:TYR:HE1	2:B:615:SER:HB3	1.82	0.44
3:M:18:TYR:HD1	3:M:122:SER:CB	2.16	0.44
3:M:56:VAL:O	3:M:57:GLY:O	2.34	0.44
3:M:220:GLU:OE1	3:M:222:PHE:CZ	2.71	0.44
3:M:319:SER:C	3:M:320:ILE:HG12	2.42	0.44
3:M:347:PHE:CE1	3:M:350:VAL:HG11	2.52	0.44
3:M:380:ARG:HG2	3:M:410:VAL:HB	1.40	0.44
4:S:17:VAL:HG11	4:S:19:PHE:CE1	2.51	0.44
4:S:51:LEU:HD12	4:S:77:TYR:CZ	2.52	0.44
4:S:107:GLU:HG3	4:S:146:VAL:HG11	2.00	0.44
1:A:114:PHE:HZ	1:A:154:ILE:HG12	1.82	0.44
1:A:481:MET:O	1:A:522:PHE:HZ	2.00	0.44
1:A:581:LEU:HG	1:A:585:PHE:CE2	2.52	0.44
1:A:636:TYR:CD2	2:B:513:TRP:HZ2	2.35	0.44
2:B:21:GLU:C	2:B:24:ALA:H	2.25	0.44
2:B:42:ILE:HG12	2:B:65:ARG:CD	2.35	0.44
2:B:135:ARG:O	2:B:161:LEU:CD2	2.66	0.44
2:B:344:VAL:CG2	2:B:381:PHE:CZ	2.98	0.44
2:B:418:TYR:O	2:B:418:TYR:HD1	1.99	0.44
2:B:549:LEU:C	2:B:551:LEU:N	2.75	0.44
2:B:556:LEU:CD2	2:B:588:ILE:HD11	2.46	0.44
2:B:559:ASP:CA	2:B:562:ASN:HB2	2.36	0.44
3:M:212:ASN:CB	3:M:250:LEU:HA	2.40	0.44
3:M:217:ASP:N	3:M:472:TYR:CE1	2.86	0.44
3:M:325:LEU:HD23	3:M:325:LEU:C	2.42	0.44
4:S:79:ASN:CG	4:S:84:TYR:CE2	2.95	0.44
4:S:102:ILE:O	4:S:105:PHE:HB3	2.17	0.44
2:B:81:LEU:O	2:B:85:ASP:N	2.37	0.44
2:B:109:ALA:O	2:B:110:GLU:O	2.35	0.44
2:B:197:LYS:HG2	2:B:198:GLU:N	2.32	0.44
2:B:430:ILE:HG23	2:B:470:ALA:HB1	1.97	0.44
2:B:502:SER:O	2:B:503:LEU:O	2.35	0.44
2:B:520:SER:HA	2:B:523:PHE:CD2	2.53	0.44
3:M:74:TYR:HD1	3:M:76:CYS:SG	2.40	0.44
3:M:222:PHE:CE1	3:M:439:TYR:CD1	3.05	0.44
3:M:269:ILE:N	3:M:302:TYR:CE1	2.86	0.44
3:M:340:LEU:HG	3:M:342:LEU:CD1	2.48	0.44
3:M:424:PHE:HZ	3:M:428:VAL:HG23	1.82	0.44
4:S:51:LEU:N	4:S:75:ILE:O	2.50	0.44
4:S:80:TYR:CB	4:S:106:VAL:HG11	2.47	0.44
1:A:129:LYS:O	1:A:130:LYS:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:116:THR:O	2:B:150:LEU:HD22	2.17	0.44
2:B:153:ILE:O	2:B:154:ILE:C	2.58	0.44
2:B:382:TYR:HE1	2:B:399:LEU:HD21	1.83	0.44
2:B:556:LEU:O	2:B:563:PHE:HD1	2.01	0.44
2:B:602:ASP:CG	2:B:603:ASP:H	2.21	0.44
3:M:258:VAL:CB	3:M:452:ILE:HG13	2.48	0.44
4:S:47:GLN:CD	4:S:47:GLN:C	2.86	0.44
1:A:237:SER:HB2	1:A:270:LEU:HD22	2.00	0.44
1:A:252:ILE:HG13	4:S:144:THR:C	2.41	0.44
1:A:438:ALA:O	1:A:441:TYR:HD1	1.97	0.44
1:A:603:VAL:O	1:A:606:PHE:CB	2.62	0.44
2:B:42:ILE:HG22	2:B:43:ASN:O	2.17	0.44
2:B:47:LEU:O	2:B:50:LEU:HB3	2.18	0.44
2:B:195:ILE:HG22	2:B:196:LEU:N	2.31	0.44
2:B:234:CYS:HB2	2:B:301:LEU:HB3	1.99	0.44
2:B:493:LEU:CD2	2:B:511:ILE:HA	2.48	0.44
3:M:101:LEU:HD11	3:M:107:ASP:C	2.43	0.44
3:M:223:HIS:CD2	3:M:478:ASN:HB3	2.50	0.44
3:M:437:TYR:CG	3:M:439:TYR:OH	2.70	0.44
4:S:34:GLN:HB3	4:S:58:LEU:CD1	2.48	0.44
1:A:132:LEU:HD13	1:A:165:ASP:HB2	1.95	0.44
1:A:179:LYS:NZ	4:S:149:ILE:CG1	2.77	0.44
2:B:140:SER:OG	2:B:175:LEU:CD1	2.66	0.44
2:B:212:VAL:CG2	2:B:248:LEU:HD23	2.42	0.44
2:B:212:VAL:HG22	2:B:248:LEU:HD23	1.93	0.44
2:B:214:ALA:O	2:B:215:TYR:C	2.60	0.44
2:B:315:PRO:O	2:B:318:ILE:HB	2.17	0.44
2:B:483:PRO:O	2:B:486:HIS:HB3	2.17	0.44
2:B:556:LEU:CB	2:B:588:ILE:CD1	2.85	0.44
3:M:258:VAL:CG2	3:M:452:ILE:HG23	2.47	0.44
3:M:290:PHE:CD2	3:M:297:PHE:CZ	3.06	0.44
3:M:372:ILE:CD1	3:M:428:VAL:HG13	2.48	0.44
3:M:433:VAL:CG1	3:M:433:VAL:O	2.66	0.44
4:S:3:HIS:O	4:S:19:PHE:CA	2.62	0.44
4:S:80:TYR:CB	4:S:106:VAL:CG1	2.96	0.44
4:S:148:ARG:O	4:S:151:ALA:N	2.51	0.44
1:A:200:PHE:O	1:A:203:PHE:HB2	2.18	0.44
1:A:392:MET:CE	1:A:428:MET:CE	2.96	0.44
2:B:158:VAL:HG21	2:B:177:ILE:CG1	2.47	0.44
2:B:230:PHE:CD2	2:B:298:ASP:CA	3.01	0.44
2:B:305:SER:O	2:B:309:LEU:HD23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:498:THR:CG2	2:B:532:ARG:HB2	2.47	0.44
2:B:537:PHE:O	2:B:539:ASN:N	2.50	0.44
3:M:219:LEU:H	3:M:472:TYR:CB	2.31	0.44
3:M:220:GLU:OE2	3:M:439:TYR:HB2	2.18	0.44
3:M:220:GLU:OE1	3:M:222:PHE:CE1	2.70	0.44
3:M:248:SER:C	3:M:249:TYR:CD1	2.96	0.44
3:M:253:ASN:OD1	3:M:292:PRO:CD	2.65	0.44
3:M:347:PHE:CE2	3:M:352:GLN:O	2.70	0.44
4:S:39:ILE:CG1	4:S:77:TYR:CD2	3.01	0.44
4:S:87:PHE:CD1	4:S:102:ILE:CG1	2.89	0.44
1:A:128:LEU:HD22	1:A:146:ALA:HB1	1.99	0.44
1:A:213:SER:CA	4:S:143:GLU:OE1	2.66	0.44
1:A:275:LEU:CD1	1:A:308:ASP:CB	2.95	0.44
1:A:323:CYS:HB3	1:A:355:LEU:HD21	1.97	0.44
1:A:399:ASP:OD1	1:A:420:ILE:CG2	2.66	0.44
1:A:581:LEU:HG	1:A:607:LEU:CD1	2.48	0.44
1:A:594:PHE:CD2	2:B:474:VAL:HG23	2.47	0.44
1:A:629:LEU:C	1:A:629:LEU:HD23	2.42	0.44
2:B:162:VAL:HG11	2:B:195:ILE:O	2.18	0.44
2:B:390:VAL:HG12	2:B:394:TRP:NE1	2.32	0.44
2:B:490:ILE:HG23	2:B:515:PHE:CZ	2.51	0.44
2:B:596:LEU:CD1	2:B:611:ALA:C	2.91	0.44
2:B:599:ALA:O	2:B:600:LYS:C	2.60	0.44
3:M:3:LEU:O	3:M:20:LEU:HD12	2.18	0.44
3:M:7:ILE:HG21	3:M:114:ILE:HD13	2.00	0.44
3:M:219:LEU:CG	3:M:440:ILE:HG12	2.45	0.44
3:M:223:HIS:CA	3:M:479:PHE:CZ	2.98	0.44
4:S:48:SER:CB	4:S:78:LYS:N	2.76	0.44
4:S:50:PHE:CB	4:S:76:ILE:CD1	2.93	0.44
4:S:75:ILE:HB	4:S:77:TYR:CE1	2.52	0.44
1:A:114:PHE:CZ	1:A:154:ILE:HG12	2.53	0.43
1:A:178:ARG:CB	1:A:214:VAL:CG1	2.95	0.43
1:A:317:GLU:HG2	1:A:351:ARG:HH12	1.83	0.43
1:A:401:VAL:HG23	1:A:418:ILE:N	2.24	0.43
1:A:420:ILE:HG22	1:A:421:PRO:O	2.18	0.43
1:A:429:VAL:HG13	1:A:457:LEU:HD13	1.99	0.43
1:A:509:PRO:HA	1:A:547:VAL:HG21	1.98	0.43
2:B:127:LEU:HD22	2:B:157:THR:CG2	2.48	0.43
2:B:178:ILE:CD1	2:B:215:TYR:C	2.90	0.43
2:B:197:LYS:H	2:B:229:HIS:CE1	2.33	0.43
2:B:227:HIS:O	2:B:229:HIS:CA	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:277:CYS:C	2:B:292:GLU:HG3	2.37	0.43
2:B:364:HIS:O	2:B:365:PHE:C	2.60	0.43
2:B:467:VAL:HG12	2:B:471:TYR:HD1	1.81	0.43
2:B:537:PHE:CZ	2:B:545:ARG:HD3	2.52	0.43
2:B:589:SER:HA	2:B:592:TYR:CD2	2.45	0.43
3:M:245:ASP:OD1	3:M:297:PHE:O	2.35	0.43
3:M:380:ARG:HH11	3:M:412:ARG:NH1	2.16	0.43
4:S:6:LEU:HB3	4:S:86:THR:HB	1.99	0.43
4:S:127:THR:HG22	4:S:153:VAL:HG13	2.00	0.43
1:A:150:LEU:HD13	1:A:162:ILE:HG23	2.00	0.43
1:A:179:LYS:HG3	4:S:143:GLU:HG3	1.50	0.43
1:A:249:ASN:HB3	1:A:252:ILE:HD12	2.00	0.43
1:A:302:ASN:O	1:A:303:MET:C	2.53	0.43
1:A:486:SER:O	1:A:487:MET:HB2	2.18	0.43
1:A:563:CYS:O	1:A:566:PHE:CD2	2.71	0.43
2:B:171:GLY:H	2:B:207:VAL:HG13	1.66	0.43
2:B:208:ILE:O	2:B:210:CYS:N	2.51	0.43
2:B:340:ILE:CG2	2:B:373:LEU:HG	2.48	0.43
2:B:343:LEU:O	2:B:359:LEU:HD12	2.17	0.43
2:B:483:PRO:CB	2:B:521:ILE:CG2	2.65	0.43
3:M:214:LEU:N	3:M:467:TYR:CB	2.81	0.43
3:M:319:SER:O	3:M:320:ILE:HG12	2.18	0.43
3:M:372:ILE:HD12	3:M:428:VAL:CG2	2.48	0.43
3:M:376:ILE:CD1	3:M:415:ILE:HG23	2.48	0.43
3:M:450:GLU:OE1	3:M:450:GLU:HA	2.18	0.43
4:S:15:ARG:HE	4:S:118:GLU:HB2	1.84	0.43
4:S:55:PRO:O	4:S:57:LEU:N	2.51	0.43
1:A:182:ILE:HG23	1:A:221:VAL:CG2	2.39	0.43
1:A:264:SER:HB2	1:A:271:ARG:NE	2.30	0.43
1:A:320:HIS:HA	1:A:338:PHE:HZ	1.82	0.43
1:A:548:GLN:NE2	1:A:588:LEU:HD11	2.32	0.43
1:A:582:ILE:HG23	1:A:604:LEU:HG	2.00	0.43
1:A:621:LEU:O	1:A:621:LEU:HD13	2.18	0.43
1:A:634:ASN:HA	2:B:516:GLY:CA	2.48	0.43
2:B:80:GLN:C	2:B:83:PHE:H	2.26	0.43
2:B:237:ILE:HB	2:B:248:LEU:HD13	2.00	0.43
2:B:278:PRO:HB3	2:B:289:PRO:C	2.43	0.43
2:B:359:LEU:HD13	2:B:359:LEU:HA	1.88	0.43
2:B:589:SER:O	2:B:592:TYR:N	2.51	0.43
2:B:591:MET:O	2:B:595:VAL:HG23	2.18	0.43
3:M:61:GLU:OE2	3:M:82:LYS:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:260:LEU:C	3:M:448:TYR:O	2.58	0.43
4:S:16:LEU:CB	4:S:125:TRP:CD1	3.01	0.43
1:A:295:VAL:HG22	1:A:315:CYS:CB	2.19	0.43
1:A:309:PHE:CZ	1:A:348:PHE:CE1	3.07	0.43
1:A:506:LYS:C	1:A:508:LEU:N	2.74	0.43
1:A:532:LEU:O	1:A:535:ILE:N	2.51	0.43
1:A:576:MET:O	1:A:579:LYS:HB3	2.18	0.43
1:A:637:GLU:HG2	2:B:512:VAL:O	2.19	0.43
3:M:67:SER:CB	3:M:90:PHE:CB	2.96	0.43
3:M:326:HIS:O	3:M:338:PHE:CA	2.50	0.43
1:A:128:LEU:HD12	1:A:150:LEU:HD23	1.69	0.43
1:A:200:PHE:HZ	1:A:235:GLN:HB2	1.82	0.43
1:A:253:ILE:CG2	1:A:281:LEU:CB	2.97	0.43
1:A:552:ILE:CD1	1:A:600:SER:CB	2.96	0.43
1:A:563:CYS:CA	1:A:566:PHE:HD2	2.11	0.43
2:B:24:ALA:HB2	2:B:35:TYR:CZ	2.36	0.43
2:B:62:ALA:C	2:B:66:ILE:HD11	2.34	0.43
2:B:63:MET:HG2	2:B:101:ILE:N	2.33	0.43
2:B:158:VAL:HG13	2:B:177:ILE:HG13	1.91	0.43
2:B:178:ILE:HG23	2:B:217:GLU:N	2.33	0.43
2:B:455:ILE:HD11	2:B:489:ILE:HG23	1.99	0.43
2:B:530:LEU:C	2:B:591:MET:SD	3.00	0.43
2:B:563:PHE:CE2	2:B:582:ASP:HB2	2.52	0.43
3:M:220:GLU:O	3:M:439:TYR:HD1	2.02	0.43
3:M:373:ALA:O	3:M:417:TYR:HA	2.18	0.43
4:S:107:GLU:HG3	4:S:146:VAL:CG1	2.48	0.43
4:S:111:ARG:HB3	4:S:150:VAL:CG2	2.47	0.43
1:A:631:SER:CA	2:B:554:LYS:HA	2.49	0.43
2:B:151:ALA:CB	2:B:188:TYR:CE1	3.01	0.43
2:B:159:LYS:CG	2:B:191:GLU:OE1	2.66	0.43
2:B:334:MET:CE	2:B:334:MET:CA	2.86	0.43
2:B:433:VAL:HG11	2:B:474:VAL:CG2	2.35	0.43
3:M:118:TYR:HA	3:M:121:ILE:HD12	2.01	0.43
3:M:304:VAL:CG1	3:M:445:SER:HA	2.43	0.43
3:M:374:TYR:CE1	3:M:390:ILE:CD1	3.02	0.43
1:A:78:GLU:C	1:A:80:TYR:H	2.27	0.43
1:A:104:ARG:CG	1:A:145:ILE:CG1	2.66	0.43
1:A:114:PHE:O	1:A:115:TYR:C	2.55	0.43
1:A:144:GLY:CA	1:A:180:LYS:HG3	2.49	0.43
1:A:429:VAL:CG2	1:A:469:LEU:HD21	2.40	0.43
1:A:438:ALA:C	1:A:439:ASP:CG	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:626:SER:O	1:A:630:PRO:CD	2.66	0.43
2:B:116:THR:CG2	2:B:150:LEU:HD21	2.41	0.43
2:B:116:THR:C	2:B:150:LEU:HD21	2.43	0.43
2:B:120:ILE:O	2:B:153:ILE:HG21	2.18	0.43
2:B:212:VAL:HG23	2:B:233:TYR:CD2	2.53	0.43
2:B:287:GLU:OE2	2:B:287:GLU:HA	2.18	0.43
2:B:367:SER:CB	2:B:401:THR:OG1	2.67	0.43
2:B:410:GLU:HA	2:B:413:LYS:HE2	2.01	0.43
3:M:103:TYR:CE1	3:M:124:ILE:HG12	2.54	0.43
3:M:106:LYS:NZ	3:M:296:LYS:O	2.42	0.43
3:M:380:ARG:HG2	3:M:410:VAL:O	2.19	0.43
4:S:4:ALA:HB1	4:S:19:PHE:CD2	2.53	0.43
4:S:14:PRO:CB	4:S:36:TYR:CE1	3.00	0.43
4:S:75:ILE:CG2	4:S:86:THR:HG21	2.44	0.43
4:S:87:PHE:CZ	4:S:102:ILE:HA	2.53	0.43
1:A:125:THR:CA	1:A:158:LEU:HD13	2.49	0.43
1:A:128:LEU:HB3	1:A:150:LEU:HD11	1.99	0.43
1:A:180:LYS:C	1:A:182:ILE:N	2.76	0.43
1:A:219:VAL:CG2	1:A:240:LEU:HD22	2.28	0.43
1:A:432:ILE:CG2	1:A:457:LEU:HD11	2.39	0.43
1:A:521:GLU:C	1:A:522:PHE:HD1	2.26	0.43
1:A:524:THR:CG2	1:A:565:ASN:ND2	2.81	0.43
2:B:13:ASP:O	2:B:14:THR:O	2.36	0.43
2:B:108:PHE:HE2	2:B:115:LEU:HD23	1.82	0.43
2:B:230:PHE:CG	2:B:298:ASP:HB3	2.42	0.43
2:B:257:LYS:C	2:B:260:LEU:HG	2.44	0.43
2:B:279:LEU:HB3	2:B:280:PRO:HD2	2.01	0.43
2:B:329:ALA:HA	2:B:333:GLN:NE2	2.34	0.43
2:B:537:PHE:CD2	2:B:537:PHE:O	2.71	0.43
2:B:567:GLN:OE1	2:B:618:PHE:CE1	2.71	0.43
3:M:94:GLU:O	3:M:97:ASP:CB	2.64	0.43
3:M:377:LYS:HE3	3:M:416:GLU:HB2	1.97	0.43
4:S:53:THR:H	4:S:69:ASN:CG	2.26	0.43
1:A:107:TYR:HD1	1:A:145:ILE:HG22	1.84	0.43
1:A:478:ARG:HG3	1:A:517:TRP:CE3	2.54	0.43
1:A:589:SER:HB3	1:A:601:VAL:CG2	2.48	0.43
2:B:72:SER:O	2:B:73:ASP:C	2.60	0.43
2:B:139:LEU:HD21	2:B:176:ALA:HB3	1.97	0.43
2:B:237:ILE:HD13	2:B:309:LEU:HD21	2.01	0.43
2:B:398:ILE:O	2:B:399:LEU:C	2.62	0.43
2:B:513:TRP:CD1	2:B:513:TRP:C	2.95	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:546:CYS:SG	2:B:607:ILE:CA	3.06	0.43
2:B:556:LEU:HA	2:B:588:ILE:HD11	0.49	0.43
2:B:577:ASN:OD1	2:B:577:ASN:N	2.52	0.43
2:B:588:ILE:HG23	2:B:589:SER:N	2.34	0.43
3:M:284:SER:O	3:M:286:SER:N	2.48	0.43
3:M:343:ASN:ND2	3:M:343:ASN:N	2.56	0.43
3:M:351:SER:O	3:M:352:GLN:HB3	2.19	0.43
3:M:435:LEU:O	3:M:437:TYR:HE1	2.02	0.43
4:S:38:LEU:HB3	4:S:51:LEU:CD1	2.47	0.43
1:A:92:LEU:CD1	1:A:120:ILE:HA	2.15	0.43
1:A:121:LEU:O	1:A:124:ALA:HB3	2.18	0.43
1:A:395:PHE:CZ	1:A:428:MET:HB2	2.54	0.43
1:A:460:LEU:C	1:A:462:GLN:N	2.76	0.43
2:B:83:PHE:CE2	2:B:119:SER:N	2.84	0.43
2:B:98:LYS:CG	2:B:137:PHE:HB2	2.48	0.43
2:B:123:LEU:CD2	2:B:138:ALA:CA	2.97	0.43
2:B:130:SER:O	2:B:135:ARG:NH2	2.52	0.43
2:B:176:ALA:O	2:B:177:ILE:C	2.62	0.43
2:B:353:GLN:CG	3:M:48:ASP:C	2.84	0.43
2:B:374:PHE:HB3	2:B:402:LEU:HD21	2.01	0.43
2:B:602:ASP:CG	2:B:603:ASP:N	2.76	0.43
3:M:96:ILE:HG21	3:M:125:PHE:CE2	2.54	0.43
3:M:226:PHE:CG	3:M:481:VAL:HG22	2.53	0.43
3:M:242:GLY:CA	3:M:474:THR:CG2	2.94	0.43
3:M:374:TYR:CE1	3:M:376:ILE:HD11	2.54	0.43
4:S:16:LEU:HD11	4:S:129:GLU:CG	2.49	0.43
4:S:17:VAL:CG1	4:S:19:PHE:HE1	2.24	0.43
1:A:186:PHE:CE1	1:A:224:GLU:CD	2.97	0.42
1:A:226:SER:CB	1:A:263:LEU:HD23	2.49	0.42
1:A:379:VAL:HG22	1:A:380:ASP:N	2.34	0.42
1:A:555:LEU:O	1:A:558:VAL:HB	2.19	0.42
2:B:59:VAL:O	2:B:59:VAL:CG1	2.66	0.42
2:B:60:ARG:O	2:B:100:LEU:HD13	2.18	0.42
2:B:80:GLN:HA	2:B:115:LEU:CD1	2.48	0.42
2:B:83:PHE:HZ	2:B:119:SER:OG	1.94	0.42
2:B:104:TYR:O	2:B:107:ARG:HB2	2.19	0.42
2:B:127:LEU:CD2	2:B:139:LEU:HB2	2.49	0.42
2:B:144:ASP:N	2:B:179:LYS:CD	2.71	0.42
2:B:274:PRO:HD2	2:B:295:ASN:CG	2.43	0.42
2:B:285:GLU:N	2:B:285:GLU:OE2	2.52	0.42
2:B:366:LEU:O	2:B:368:ILE:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:588:ILE:HG21	2:B:618:PHE:CE1	2.54	0.42
3:M:240:ILE:HG21	3:M:444:ALA:HA	2.01	0.42
3:M:466:LEU:HD23	3:M:467:TYR:O	2.18	0.42
1:A:419:ILE:O	1:A:419:ILE:HG12	2.20	0.42
1:A:507:GLN:O	1:A:509:PRO:HD2	2.18	0.42
1:A:509:PRO:CA	1:A:547:VAL:HG21	2.49	0.42
1:A:552:ILE:CD1	1:A:600:SER:HB2	2.48	0.42
1:A:575:LYS:CE	1:A:611:LEU:HD21	2.46	0.42
2:B:127:LEU:CD2	2:B:157:THR:HG21	2.41	0.42
2:B:230:PHE:HD2	2:B:298:ASP:CA	2.32	0.42
2:B:277:CYS:O	2:B:288:TYR:HA	2.18	0.42
2:B:560:ILE:CG2	2:B:561:ASP:N	2.79	0.42
2:B:560:ILE:O	2:B:563:PHE:N	2.51	0.42
4:S:5:VAL:O	4:S:17:VAL:CA	2.55	0.42
1:A:147:LEU:CG	1:A:166:LEU:HD21	2.45	0.42
1:A:222:ILE:CG2	1:A:233:PHE:HB3	2.42	0.42
1:A:226:SER:O	1:A:227:LYS:C	2.53	0.42
1:A:319:LEU:O	1:A:321:THR:N	2.46	0.42
1:A:359:LEU:HD22	1:A:367:ILE:CG2	2.48	0.42
1:A:450:TYR:OH	1:A:476:GLN:NE2	2.52	0.42
2:B:139:LEU:CD2	2:B:173:VAL:HG13	2.49	0.42
2:B:371:GLN:C	2:B:373:LEU:N	2.77	0.42
2:B:549:LEU:CD1	2:B:611:ALA:HB1	2.21	0.42
3:M:226:PHE:CE2	3:M:321:GLY:O	2.69	0.42
1:A:75:THR:O	1:A:79:MET:HG3	2.19	0.42
1:A:114:PHE:C	1:A:115:TYR:O	2.58	0.42
1:A:213:SER:N	4:S:148:ARG:CD	2.57	0.42
1:A:514:GLU:OE1	1:A:514:GLU:HA	2.20	0.42
2:B:3:ASP:O	2:B:4:SER:C	2.62	0.42
2:B:9:ALA:O	2:B:10:SER:C	2.62	0.42
2:B:18:ILE:HD13	2:B:18:ILE:N	2.32	0.42
2:B:47:LEU:HD11	2:B:66:ILE:HA	1.98	0.42
2:B:189:HIS:CD2	2:B:222:HIS:CG	3.08	0.42
2:B:245:GLN:HB3	2:B:309:LEU:HD11	2.02	0.42
2:B:303:LEU:CD1	2:B:333:GLN:HG2	2.45	0.42
2:B:310:ILE:HG12	2:B:318:ILE:HG23	2.01	0.42
2:B:350:THR:HA	2:B:351:GLU:OE2	2.20	0.42
2:B:403:ILE:CA	2:B:411:ILE:HD12	2.48	0.42
2:B:437:SER:CA	2:B:478:LEU:CD2	2.71	0.42
2:B:589:SER:O	2:B:591:MET:N	2.52	0.42
3:M:118:TYR:C	3:M:118:TYR:HD2	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:220:GLU:O	3:M:439:TYR:CD1	2.73	0.42
3:M:276:VAL:HG22	3:M:290:PHE:HD1	1.84	0.42
3:M:410:VAL:HG11	3:M:412:ARG:HH11	1.80	0.42
1:A:143:VAL:HG13	1:A:169:MET:HG3	2.00	0.42
1:A:213:SER:HB2	4:S:143:GLU:HB3	2.01	0.42
1:A:288:THR:OG1	1:A:291:ILE:CG1	2.67	0.42
1:A:339:TYR:HB2	1:A:374:LEU:HD11	2.01	0.42
1:A:483:LYS:O	1:A:484:VAL:CB	2.65	0.42
2:B:106:LEU:CD2	2:B:144:ASP:HB2	2.48	0.42
2:B:121:ASN:HA	2:B:153:ILE:HG21	2.01	0.42
2:B:256:CYS:O	2:B:260:LEU:N	2.53	0.42
2:B:340:ILE:CD1	2:B:366:LEU:HD13	2.23	0.42
2:B:399:LEU:HD12	2:B:415:LEU:HD23	2.01	0.42
2:B:424:PHE:C	2:B:425:PRO:O	2.61	0.42
3:M:55:MET:C	3:M:57:GLY:N	2.74	0.42
3:M:60:LEU:HD23	3:M:61:GLU:C	2.45	0.42
3:M:243:ILE:HD13	3:M:301:GLU:HB3	2.00	0.42
1:A:70:ALA:C	1:A:74:LEU:HG	2.45	0.42
1:A:200:PHE:CZ	1:A:236:LEU:HG	2.54	0.42
1:A:348:PHE:HB3	1:A:352:PHE:CE1	2.53	0.42
1:A:503:ASN:CG	3:M:59:ASP:OD2	2.61	0.42
1:A:552:ILE:CG2	1:A:603:VAL:HG21	2.45	0.42
1:A:555:LEU:HD12	1:A:585:PHE:HE1	1.83	0.42
2:B:50:LEU:CD1	2:B:58:GLU:HB3	2.49	0.42
2:B:178:ILE:CG2	2:B:217:GLU:CB	2.75	0.42
2:B:330:SER:O	2:B:331:PRO:C	2.62	0.42
2:B:418:TYR:CE1	2:B:419:VAL:HG22	2.53	0.42
2:B:475:ILE:HG21	2:B:514:LEU:HD21	1.98	0.42
1:A:171:ASN:HB2	1:A:202:LYS:HE2	2.02	0.42
1:A:564:ASN:OD1	1:A:622:PRO:HG2	2.17	0.42
1:A:623:MET:O	2:B:617:LEU:HG	2.19	0.42
2:B:37:TYR:CD2	2:B:42:ILE:HA	2.53	0.42
2:B:98:LYS:HZ3	2:B:138:ALA:HB2	1.84	0.42
2:B:215:TYR:OH	2:B:229:HIS:HB3	2.17	0.42
2:B:396:ILE:HD13	2:B:418:TYR:CZ	2.47	0.42
2:B:534:ILE:HA	2:B:598:LEU:HD12	2.02	0.42
2:B:556:LEU:HD12	2:B:614:ILE:CG2	2.49	0.42
2:B:592:TYR:CD1	2:B:593:ASN:N	2.88	0.42
3:M:428:VAL:O	3:M:430:LEU:HA	2.19	0.42
4:S:47:GLN:O	4:S:49:SER:N	2.49	0.42
4:S:50:PHE:CA	4:S:77:TYR:HD1	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:91:ILE:HD12	1:A:109:ALA:HB3	2.01	0.42
1:A:100:LEU:HD22	1:A:138:ASN:CB	2.48	0.42
1:A:183:THR:N	4:S:142:ILE:HD13	2.34	0.42
1:A:274:LEU:O	1:A:277:LYS:N	2.52	0.42
1:A:634:ASN:ND2	2:B:554:LYS:H	2.15	0.42
2:B:47:LEU:HD22	2:B:66:ILE:CA	2.50	0.42
2:B:118:LEU:C	2:B:120:ILE:N	2.77	0.42
2:B:154:ILE:HG21	2:B:180:LEU:CB	2.50	0.42
2:B:227:HIS:CE1	2:B:292:GLU:CD	2.95	0.42
2:B:336:ASN:HD21	2:B:338:LYS:HB2	1.80	0.42
2:B:378:THR:C	2:B:380:LYS:N	2.76	0.42
2:B:383:VAL:CG2	2:B:384:PHE:N	2.83	0.42
2:B:560:ILE:HG22	2:B:561:ASP:H	1.83	0.42
3:M:2:TYR:C	3:M:81:SER:CB	2.77	0.42
3:M:219:LEU:H	3:M:472:TYR:HB2	1.84	0.42
1:A:66:SER:N	4:S:165:SER:CB	2.66	0.42
1:A:97:SER:CA	1:A:98:ASN:O	2.66	0.42
1:A:219:VAL:CG2	1:A:256:LEU:HD23	2.48	0.42
1:A:271:ARG:HH11	1:A:303:MET:HA	1.85	0.42
1:A:336:ILE:HG23	1:A:340:LYS:HE3	2.02	0.42
1:A:401:VAL:HB	1:A:419:ILE:HB	2.02	0.42
2:B:114:ASN:O	2:B:117:LEU:CB	2.63	0.42
2:B:216:LYS:HB2	2:B:251:LEU:CB	2.50	0.42
2:B:380:LYS:NZ	3:M:236:LEU:HD11	2.28	0.42
3:M:74:TYR:CE1	3:M:76:CYS:SG	3.13	0.42
3:M:265:ASN:OD1	3:M:313:SER:HB3	2.15	0.42
4:S:16:LEU:CD1	4:S:17:VAL:N	2.80	0.42
1:A:121:LEU:HD11	1:A:155:THR:OG1	2.20	0.42
1:A:213:SER:HB2	4:S:143:GLU:OE1	2.12	0.42
1:A:288:THR:OG1	1:A:291:ILE:HD13	2.19	0.42
1:A:342:GLY:C	1:A:344:ILE:N	2.68	0.42
1:A:421:PRO:CB	1:A:424:TYR:CE1	3.03	0.42
1:A:524:THR:CG2	1:A:565:ASN:HD22	2.32	0.42
1:A:552:ILE:HD13	1:A:600:SER:HB2	2.01	0.42
1:A:627:GLU:HA	2:B:617:LEU:HB2	1.18	0.42
2:B:90:ILE:O	2:B:98:LYS:CE	2.68	0.42
2:B:158:VAL:CB	2:B:177:ILE:CG1	2.89	0.42
2:B:172:GLU:OE1	2:B:175:LEU:HD12	2.19	0.42
2:B:177:ILE:CD1	2:B:196:LEU:CG	2.96	0.42
2:B:240:LEU:HB3	2:B:241:ASP:H	1.77	0.42
2:B:378:THR:C	2:B:380:LYS:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:408:VAL:HG13	2:B:412:PHE:CE2	2.48	0.42
2:B:527:PRO:HB3	2:B:587:ARG:O	2.20	0.42
2:B:580:TYR:C	2:B:582:ASP:H	2.28	0.42
3:M:218:LEU:N	3:M:218:LEU:CD1	2.82	0.42
3:M:222:PHE:HD1	3:M:222:PHE:N	2.18	0.42
3:M:350:VAL:CG2	3:M:442:GLN:CD	2.85	0.42
3:M:473:LYS:C	3:M:474:THR:HG23	2.45	0.42
4:S:7:ILE:CG2	4:S:121:LEU:HD23	2.50	0.42
1:A:134:TYR:CD2	1:A:136:GLY:N	2.84	0.41
1:A:180:LYS:O	1:A:183:THR:N	2.53	0.41
1:A:183:THR:OG1	4:S:142:ILE:CG1	2.65	0.41
1:A:226:SER:HB3	1:A:263:LEU:CD2	2.50	0.41
1:A:253:ILE:HG21	1:A:281:LEU:CB	2.47	0.41
1:A:275:LEU:C	1:A:277:LYS:N	2.74	0.41
1:A:374:LEU:CA	1:A:376:GLU:OE1	2.64	0.41
1:A:429:VAL:O	1:A:432:ILE:HB	2.19	0.41
1:A:509:PRO:CA	1:A:547:VAL:CG2	2.98	0.41
2:B:106:LEU:HD22	2:B:144:ASP:HB2	2.02	0.41
2:B:131:ASN:O	2:B:135:ARG:HG3	2.20	0.41
2:B:135:ARG:CZ	2:B:164:ASP:CB	2.95	0.41
2:B:135:ARG:O	2:B:161:LEU:HD21	2.20	0.41
2:B:154:ILE:O	2:B:157:THR:HB	2.20	0.41
2:B:227:HIS:ND1	2:B:292:GLU:HG2	2.35	0.41
2:B:306:LEU:CD1	2:B:325:LEU:HD23	2.44	0.41
2:B:424:PHE:HA	2:B:425:PRO:HD3	1.58	0.41
2:B:447:GLU:HG3	2:B:482:ASN:ND2	2.35	0.41
3:M:95:THR:HG22	3:M:99:ILE:HD11	2.01	0.41
3:M:283:PHE:CD2	3:M:289:THR:OG1	2.60	0.41
3:M:380:ARG:HB3	3:M:412:ARG:N	2.35	0.41
3:M:381:ASN:HD21	3:M:384:GLY:HA3	1.83	0.41
3:M:386:PHE:HB2	3:M:397:TRP:HD1	1.81	0.41
3:M:445:SER:OG	3:M:447:ILE:HG23	2.19	0.41
4:S:53:THR:OG1	4:S:68:VAL:CA	2.68	0.41
4:S:101:LEU:HG	4:S:135:ILE:CG2	2.49	0.41
1:A:100:LEU:CB	1:A:142:LYS:CG	2.98	0.41
1:A:102:GLN:HG2	4:S:164:ASP:C	2.45	0.41
1:A:140:VAL:CG2	1:A:174:ARG:CB	2.97	0.41
1:A:185:LEU:HD22	1:A:189:PHE:HZ	1.80	0.41
2:B:343:LEU:C	2:B:347:VAL:HG23	2.45	0.41
3:M:8:THR:OG1	3:M:75:TRP:CB	2.67	0.41
3:M:16:PHE:CE2	3:M:125:PHE:CZ	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:218:LEU:H	3:M:218:LEU:CD1	2.33	0.41
3:M:223:HIS:HE1	3:M:476:THR:H	1.61	0.41
3:M:256:VAL:HG11	3:M:290:PHE:HB3	1.95	0.41
3:M:276:VAL:CG1	3:M:299:LEU:CD1	2.98	0.41
3:M:343:ASN:ND2	3:M:343:ASN:H	2.13	0.41
3:M:360:LEU:CG	3:M:362:PHE:CE2	3.03	0.41
1:A:145:ILE:O	1:A:147:LEU:N	2.54	0.41
1:A:170:LEU:HB2	1:A:202:LYS:CG	2.50	0.41
1:A:175:PRO:HG3	1:A:211:ASP:HB2	2.01	0.41
1:A:270:LEU:HD12	1:A:274:LEU:CD2	2.50	0.41
1:A:385:LYS:NZ	1:A:445:ASN:OD1	2.52	0.41
1:A:557:LYS:CD	2:B:606:ASP:HB2	2.50	0.41
1:A:589:SER:HB2	1:A:601:VAL:HG22	1.89	0.41
2:B:107:ARG:C	2:B:110:GLU:H	2.13	0.41
2:B:122:SER:C	2:B:124:GLN:N	2.77	0.41
2:B:127:LEU:HD11	2:B:142:LEU:CD1	2.50	0.41
2:B:169:VAL:O	2:B:173:VAL:N	2.47	0.41
2:B:212:VAL:CG1	2:B:248:LEU:CD2	2.97	0.41
2:B:260:LEU:CG	2:B:291:TYR:CE1	2.90	0.41
2:B:299:LEU:C	2:B:299:LEU:CD1	2.92	0.41
3:M:244:VAL:CG2	3:M:472:TYR:HE2	2.32	0.41
3:M:246:VAL:CB	3:M:297:PHE:CE1	3.02	0.41
3:M:290:PHE:CD1	3:M:299:LEU:CD1	3.03	0.41
3:M:306:LEU:HD22	3:M:310:VAL:HG23	2.02	0.41
3:M:347:PHE:CE2	3:M:352:GLN:C	2.98	0.41
3:M:390:ILE:C	3:M:393:GLY:H	2.29	0.41
3:M:411:LEU:O	3:M:412:ARG:HG3	2.20	0.41
4:S:58:LEU:HD13	4:S:68:VAL:CG1	2.50	0.41
1:A:73:LYS:O	1:A:76:TYR:HB2	2.21	0.41
1:A:92:LEU:O	1:A:94:VAL:N	2.53	0.41
1:A:104:ARG:N	4:S:167:ILE:HD11	2.35	0.41
1:A:332:TYR:CE2	1:A:336:ILE:HD12	2.55	0.41
1:A:338:PHE:O	1:A:341:ILE:HB	2.21	0.41
1:A:356:ILE:O	1:A:359:LEU:HB2	2.20	0.41
2:B:252:LEU:CB	2:B:302:PHE:CG	2.99	0.41
2:B:384:PHE:CD1	2:B:395:LYS:NZ	2.88	0.41
2:B:389:ILE:O	2:B:393:ILE:CG1	2.68	0.41
2:B:519:ALA:CB	2:B:555:LEU:HD12	2.49	0.41
2:B:528:ASP:HA	2:B:531:ARG:NH1	2.35	0.41
4:S:58:LEU:HA	4:S:68:VAL:HG22	2.02	0.41
1:A:125:THR:OG1	1:A:158:LEU:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:PRO:HA	1:A:214:VAL:HG21	2.01	0.41
1:A:215:VAL:HG21	1:A:243:ILE:HG23	1.18	0.41
1:A:420:ILE:HA	1:A:421:PRO:HD3	1.83	0.41
1:A:626:SER:OG	2:B:616:SER:HB2	2.21	0.41
2:B:24:ALA:C	2:B:35:TYR:CD2	2.99	0.41
2:B:63:MET:HB3	2:B:100:LEU:CD1	2.51	0.41
2:B:78:ASP:CG	2:B:81:LEU:H	2.28	0.41
2:B:266:VAL:CA	2:B:289:PRO:HB2	2.48	0.41
2:B:311:TYR:CD2	2:B:342:ALA:HB1	2.53	0.41
2:B:357:GLU:CG	2:B:361:GLN:NE2	2.80	0.41
2:B:533:LEU:O	2:B:536:ASN:N	2.42	0.41
2:B:559:ASP:C	2:B:563:PHE:N	2.58	0.41
3:M:8:THR:OG1	3:M:75:TRP:HB2	2.20	0.41
3:M:374:TYR:O	3:M:390:ILE:CG2	2.68	0.41
1:A:100:LEU:CB	4:S:162:SER:HB2	2.51	0.41
1:A:140:VAL:O	1:A:141:VAL:O	2.38	0.41
1:A:202:LYS:C	1:A:205:SER:H	2.23	0.41
1:A:396:VAL:O	1:A:397:ASP:OD1	2.37	0.41
2:B:25:VAL:HG22	2:B:35:TYR:HB3	2.03	0.41
2:B:98:LYS:NZ	2:B:134:LEU:C	2.79	0.41
2:B:123:LEU:HB2	2:B:142:LEU:CD1	2.45	0.41
2:B:135:ARG:HH22	2:B:164:ASP:CB	2.27	0.41
2:B:167:ALA:O	2:B:207:VAL:CG1	2.68	0.41
2:B:537:PHE:CE1	2:B:545:ARG:CB	3.03	0.41
3:M:80:THR:O	3:M:81:SER:CB	2.69	0.41
3:M:221:THR:HG22	3:M:223:HIS:CE1	2.55	0.41
3:M:244:VAL:C	3:M:472:TYR:CE2	2.99	0.41
3:M:352:GLN:CB	3:M:401:LYS:O	2.69	0.41
3:M:379:LEU:HD13	3:M:386:PHE:CE1	2.56	0.41
1:A:100:LEU:CD1	1:A:141:VAL:HG11	2.49	0.41
1:A:140:VAL:HG13	1:A:176:TYR:HB2	1.87	0.41
1:A:222:ILE:HG23	1:A:233:PHE:CB	2.43	0.41
1:A:436:CYS:CB	1:A:450:TYR:CZ	3.04	0.41
1:A:481:MET:HE3	1:A:491:THR:OG1	2.19	0.41
1:A:521:GLU:C	1:A:522:PHE:CD1	2.99	0.41
1:A:536:MET:HB3	1:A:555:LEU:HD21	2.01	0.41
1:A:559:PHE:CD2	1:A:578:LEU:HD23	2.55	0.41
2:B:63:MET:N	2:B:66:ILE:HD12	2.32	0.41
2:B:137:PHE:O	2:B:140:SER:N	2.50	0.41
2:B:181:TYR:CD2	2:B:218:CYS:CB	2.90	0.41
2:B:212:VAL:CG2	2:B:233:TYR:CD2	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:257:LYS:O	2:B:260:LEU:HG	2.20	0.41
2:B:467:VAL:CG1	2:B:471:TYR:CE1	3.04	0.41
2:B:537:PHE:CA	2:B:598:LEU:HD13	2.37	0.41
3:M:224:VAL:C	3:M:479:PHE:CA	2.79	0.41
3:M:347:PHE:CE2	3:M:350:VAL:CG1	3.04	0.41
1:A:147:LEU:O	1:A:184:ALA:HB1	2.21	0.41
1:A:179:LYS:O	4:S:142:ILE:HD12	2.16	0.41
1:A:212:ILE:CB	4:S:145:ASN:ND2	2.81	0.41
1:A:401:VAL:HG11	1:A:419:ILE:HD12	2.00	0.41
1:A:516:ILE:CD1	1:A:551:LEU:HB2	2.51	0.41
1:A:630:PRO:O	2:B:554:LYS:HB2	2.21	0.41
2:B:78:ASP:OD1	2:B:80:GLN:CB	2.56	0.41
2:B:158:VAL:CB	2:B:177:ILE:HG13	2.48	0.41
2:B:344:VAL:HG22	2:B:363:ILE:HD12	1.94	0.41
2:B:511:ILE:O	2:B:512:VAL:C	2.62	0.41
2:B:520:SER:CA	2:B:523:PHE:CD2	3.03	0.41
3:M:217:ASP:OD2	3:M:440:ILE:CG2	2.69	0.41
3:M:342:LEU:CD1	3:M:411:LEU:HB3	2.27	0.41
3:M:410:VAL:CG1	3:M:412:ARG:NH1	2.73	0.41
1:A:99:LYS:HE2	1:A:101:GLN:HB3	2.02	0.41
1:A:189:PHE:O	1:A:190:LEU:C	2.59	0.41
1:A:375:VAL:O	1:A:378:ILE:N	2.53	0.41
1:A:420:ILE:HG23	1:A:424:TYR:HB2	2.03	0.41
1:A:461:CYS:SG	1:A:469:LEU:CB	3.02	0.41
1:A:567:GLN:O	1:A:569:ASP:N	2.53	0.41
1:A:626:SER:OG	2:B:617:LEU:HG	2.21	0.41
2:B:14:THR:C	2:B:16:LYS:H	2.29	0.41
2:B:48:VAL:HG22	2:B:82:TYR:CE2	2.53	0.41
2:B:56:SER:HB3	2:B:92:THR:HG23	1.90	0.41
2:B:169:VAL:HG12	2:B:173:VAL:HG21	2.01	0.41
2:B:216:LYS:HD3	2:B:251:LEU:CB	2.49	0.41
2:B:343:LEU:CD2	2:B:363:ILE:N	2.84	0.41
2:B:347:VAL:O	2:B:348:THR:C	2.61	0.41
2:B:567:GLN:CB	2:B:569:THR:OG1	2.68	0.41
2:B:587:ARG:O	2:B:591:MET:HG2	2.21	0.41
3:M:96:ILE:HD13	3:M:96:ILE:HA	1.94	0.41
3:M:118:TYR:CD2	3:M:118:TYR:O	2.74	0.41
3:M:214:LEU:C	3:M:214:LEU:CD2	2.80	0.41
3:M:218:LEU:CB	3:M:442:GLN:O	2.69	0.41
3:M:222:PHE:CB	3:M:240:ILE:HG12	2.51	0.41
3:M:224:VAL:HB	3:M:479:PHE:HD1	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:252:ASP:C	3:M:254:PRO:CD	2.93	0.41
3:M:356:LEU:HD21	3:M:358:ILE:HG12	1.99	0.41
4:S:4:ALA:HB2	4:S:19:PHE:CD2	2.56	0.41
4:S:61:ASN:CG	4:S:66:ASP:OD2	2.60	0.41
4:S:86:THR:C	4:S:87:PHE:CD1	2.98	0.41
4:S:117:ASN:CB	4:S:120:ASP:OD2	2.68	0.41
4:S:127:THR:CG2	4:S:153:VAL:HG13	2.51	0.41
1:A:104:ARG:HG3	1:A:145:ILE:CB	2.49	0.41
1:A:154:ILE:HG22	1:A:191:GLN:CG	2.39	0.41
1:A:180:LYS:HE3	4:S:156:LEU:CD1	2.50	0.41
1:A:402:ILE:C	1:A:404:GLN:H	2.29	0.41
1:A:433:ILE:HD13	1:A:472:LYS:C	2.46	0.41
1:A:509:PRO:O	1:A:547:VAL:HG22	2.22	0.41
1:A:563:CYS:SG	1:A:621:LEU:CG	3.08	0.41
2:B:13:ASP:O	2:B:16:LYS:O	2.38	0.41
2:B:95:THR:HA	2:B:134:LEU:HD23	2.02	0.41
2:B:143:SER:O	2:B:179:LYS:CB	2.69	0.41
2:B:151:ALA:HB3	2:B:188:TYR:CE1	2.56	0.41
2:B:309:LEU:HD13	2:B:309:LEU:HA	1.87	0.41
2:B:336:ASN:CB	2:B:339:PHE:CD1	3.03	0.41
3:M:323:MET:CE	3:M:342:LEU:CG	2.99	0.41
3:M:436:GLU:HG3	3:M:436:GLU:O	2.21	0.41
1:A:100:LEU:HD23	4:S:162:SER:OG	2.20	0.40
1:A:184:ALA:C	1:A:186:PHE:N	2.78	0.40
1:A:200:PHE:CZ	1:A:235:GLN:HB2	2.56	0.40
1:A:316:LEU:HD11	1:A:348:PHE:CE2	2.43	0.40
1:A:338:PHE:CE2	1:A:352:PHE:CE2	3.08	0.40
1:A:446:ASP:CG	1:A:448:GLU:O	2.64	0.40
1:A:594:PHE:CE1	2:B:434:LYS:CD	2.98	0.40
1:A:624:LEU:O	2:B:613:MET:HE2	2.19	0.40
2:B:102:HIS:CD2	2:B:123:LEU:HD21	2.56	0.40
2:B:123:LEU:HB2	2:B:142:LEU:HD21	2.03	0.40
2:B:159:LYS:CA	2:B:195:ILE:HD13	2.39	0.40
2:B:178:ILE:HA	2:B:178:ILE:HD13	1.89	0.40
2:B:374:PHE:CD2	2:B:402:LEU:HD21	2.53	0.40
2:B:518:ILE:O	2:B:518:ILE:CG1	2.69	0.40
3:M:12:ASN:OD1	3:M:45:SER:OG	2.35	0.40
3:M:66:PHE:HB3	3:M:77:LEU:HD21	1.78	0.40
3:M:224:VAL:O	3:M:479:PHE:HA	2.04	0.40
3:M:240:ILE:HG22	3:M:444:ALA:CA	2.51	0.40
3:M:353:VAL:O	3:M:354:ASP:C	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:VAL:HG11	1:A:105:VAL:CB	2.51	0.40
1:A:78:GLU:OE1	1:A:113:SER:HB3	2.20	0.40
1:A:92:LEU:CD2	1:A:124:ALA:N	2.85	0.40
1:A:92:LEU:HD22	1:A:123:LEU:CB	2.50	0.40
1:A:141:VAL:HB	4:S:159:ALA:CA	2.46	0.40
1:A:182:ILE:HD13	1:A:218:ALA:N	2.37	0.40
1:A:245:VAL:O	1:A:245:VAL:HG22	2.20	0.40
1:A:251:TRP:CD1	4:S:104:THR:HG23	2.55	0.40
1:A:306:GLU:C	1:A:308:ASP:N	2.68	0.40
1:A:420:ILE:HG23	1:A:421:PRO:CD	2.48	0.40
1:A:429:VAL:CG2	1:A:469:LEU:HD11	2.42	0.40
1:A:629:LEU:O	1:A:631:SER:N	2.52	0.40
2:B:20:ARG:HH11	2:B:35:TYR:HE1	1.67	0.40
2:B:139:LEU:HD23	2:B:173:VAL:HA	0.42	0.40
2:B:258:GLN:HA	2:B:258:GLN:OE1	2.21	0.40
2:B:554:LYS:C	2:B:556:LEU:N	2.76	0.40
3:M:292:PRO:HA	3:M:293:PRO:HD3	1.53	0.40
3:M:360:LEU:CD1	3:M:433:VAL:CB	2.93	0.40
3:M:433:VAL:O	3:M:435:LEU:HD12	2.21	0.40
4:S:108:SER:OG	4:S:149:ILE:CG2	2.60	0.40
1:A:104:ARG:CG	1:A:145:ILE:CD1	2.95	0.40
1:A:231:GLN:CB	1:A:232:PRO:HD3	2.44	0.40
1:A:247:ILE:HG21	1:A:252:ILE:CG2	2.52	0.40
1:A:247:ILE:HG21	1:A:252:ILE:HB	2.03	0.40
1:A:443:SER:O	1:A:445:ASN:N	2.47	0.40
1:A:535:ILE:O	1:A:536:MET:HG3	2.20	0.40
2:B:115:LEU:C	2:B:117:LEU:N	2.77	0.40
2:B:208:ILE:HD13	2:B:240:LEU:HD11	2.04	0.40
2:B:286:ILE:CG2	2:B:288:TYR:CE2	2.82	0.40
2:B:306:LEU:O	2:B:309:LEU:HB2	2.21	0.40
2:B:355:ASN:O	2:B:356:LYS:C	2.63	0.40
2:B:363:ILE:CG2	2:B:398:ILE:HD11	2.47	0.40
2:B:566:ALA:HB2	2:B:581:TYR:CD2	2.56	0.40
3:M:245:ASP:C	3:M:472:TYR:HE1	2.08	0.40
3:M:249:TYR:HE1	3:M:467:TYR:CZ	2.37	0.40
3:M:265:ASN:HB3	3:M:309:GLN:CD	2.45	0.40
3:M:281:GLY:C	3:M:282:VAL:CG2	2.62	0.40
3:M:320:ILE:CG2	3:M:439:TYR:OH	2.70	0.40
3:M:376:ILE:HG22	3:M:379:LEU:CD1	2.51	0.40
4:S:85:PHE:HZ	4:S:109:LEU:HD23	1.85	0.40
1:A:84:MET:O	1:A:85:ALA:O	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:ASN:CG	1:A:120:ILE:CG2	2.94	0.40
1:A:117:ASP:OD1	1:A:117:ASP:C	2.64	0.40
1:A:125:THR:HA	1:A:158:LEU:HD13	2.04	0.40
1:A:141:VAL:HG21	4:S:157:ASN:N	2.36	0.40
1:A:150:LEU:CG	1:A:162:ILE:HG12	2.52	0.40
1:A:174:ARG:HA	1:A:175:PRO:HD2	1.66	0.40
1:A:175:PRO:CG	1:A:211:ASP:OD2	2.69	0.40
1:A:260:PHE:CZ	1:A:274:LEU:CG	3.04	0.40
1:A:288:THR:HB	1:A:322:PHE:CZ	2.42	0.40
1:A:313:MET:CA	1:A:348:PHE:CZ	3.02	0.40
1:A:326:GLN:HA	1:A:331:ARG:NE	2.36	0.40
1:A:359:LEU:HD22	1:A:367:ILE:HG21	2.03	0.40
1:A:504:ILE:O	1:A:506:LYS:N	2.52	0.40
1:A:557:LYS:HG2	2:B:606:ASP:N	2.36	0.40
1:A:567:GLN:C	1:A:569:ASP:N	2.72	0.40
2:B:17:VAL:CB	3:M:119:ASP:OD2	2.69	0.40
2:B:41:ASN:HD22	2:B:43:ASN:HA	1.87	0.40
2:B:171:GLY:O	2:B:174:ALA:HB3	2.22	0.40
2:B:257:LYS:CA	2:B:260:LEU:HG	2.51	0.40
2:B:278:PRO:HB3	2:B:289:PRO:O	2.22	0.40
2:B:306:LEU:HD22	2:B:321:CYS:CB	2.52	0.40
2:B:319:LEU:O	2:B:321:CYS:N	2.55	0.40
2:B:353:GLN:HE21	3:M:47:SER:CB	1.91	0.40
2:B:542:PRO:O	2:B:607:ILE:HD13	2.22	0.40
3:M:7:ILE:HG22	3:M:75:TRP:O	2.17	0.40
3:M:104:PHE:O	3:M:105:ASP:CB	2.69	0.40
4:S:87:PHE:CD1	4:S:87:PHE:N	2.89	0.40
1:A:139:ASP:CG	1:A:177:ILE:HD11	2.46	0.40
1:A:192:TYR:CD2	1:A:192:TYR:O	2.75	0.40
1:A:220:SER:CB	4:S:142:ILE:CA	3.00	0.40
1:A:220:SER:CB	4:S:142:ILE:HA	2.49	0.40
1:A:566:PHE:C	1:A:566:PHE:HD1	2.29	0.40
1:A:566:PHE:CZ	1:A:618:THR:HB	2.53	0.40
1:A:637:GLU:HB2	2:B:513:TRP:CG	2.57	0.40
2:B:38:TYR:CA	2:B:42:ILE:H	2.13	0.40
2:B:64:LYS:CG	2:B:100:LEU:CD1	2.98	0.40
2:B:70:MET:CB	2:B:104:TYR:CE1	2.99	0.40
2:B:84:ALA:O	2:B:87:VAL:HB	2.21	0.40
2:B:157:THR:O	2:B:158:VAL:C	2.64	0.40
2:B:361:GLN:HG2	2:B:394:TRP:CE2	2.56	0.40
3:M:217:ASP:CG	3:M:440:ILE:HG23	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:220:GLU:CD	3:M:439:TYR:CD1	2.99	0.40
3:M:220:GLU:HA	3:M:474:THR:CG2	2.50	0.40
3:M:270:PRO:N	3:M:302:TYR:CD1	2.90	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM 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	574/964 (60%)	511 (89%)	39 (7%)	24 (4%)	2	17
2	B	619/809 (76%)	474 (77%)	79 (13%)	66 (11%)	0	6
3	M	385/483 (80%)	315 (82%)	52 (14%)	18 (5%)	2	16
4	S	166/194 (86%)	150 (90%)	12 (7%)	4 (2%)	4	27
All	All	1744/2450 (71%)	1450 (83%)	182 (10%)	112 (6%)	2	12

All (112) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	267	GLU
1	A	278	ILE
1	A	279	LEU
1	A	305	GLU
1	A	401	VAL
1	A	405	THR
1	A	440	ASN
1	A	441	TYR
1	A	449	TRP
1	A	507	GLN
2	B	14	THR
2	B	18	ILE

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Mol	Chain	Res	Type
2	B	19	THR
2	B	43	ASN
2	B	78	ASP
2	B	154	ILE
2	B	156	HIS
2	B	176	ALA
2	B	177	ILE
2	B	179	LYS
2	B	192	LEU
2	B	194	ASP
2	B	196	LEU
2	B	197	LYS
2	B	198	GLU
2	B	200	MET
2	B	215	TYR
2	B	218	CYS
2	B	228	GLY
2	B	261	PRO
2	B	274	PRO
2	B	287	GLU
2	B	296	ASP
2	B	436	LEU
2	B	558	TYR
2	B	560	ILE
2	B	561	ASP
2	B	564	LYS
2	B	565	GLN
2	B	568	VAL
2	B	578	PRO
2	B	583	PHE
3	M	105	ASP
3	M	282	VAL
3	M	352	GLN
3	M	447	ILE
3	M	470	ALA
4	S	50	PHE
1	A	116	LYS
1	A	126	ASN
1	A	174	ARG
1	A	536	MET
2	B	3	ASP
2	B	29	LYS

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Mol	Chain	Res	Type
2	B	135	ARG
2	B	144	ASP
2	B	158	VAL
2	B	178	ILE
2	B	199	LEU
2	B	227	HIS
2	B	332	LEU
2	B	383	VAL
2	B	432	ALA
3	M	45	SER
3	M	72	LEU
3	M	82	LYS
3	M	316	ARG
3	M	317	MET
3	M	429	ASP
1	A	256	LEU
1	A	421	PRO
1	A	571	ARG
1	A	608	ARG
2	B	15	ALA
2	B	38	TYR
2	B	232	ARG
2	B	337	THR
2	B	503	LEU
2	B	538	SER
2	B	590	GLN
3	M	86	PRO
3	M	254	PRO
3	M	355	ASP
1	A	306	GLU
1	A	406	GLY
2	B	213	LEU
2	B	222	HIS
2	B	260	LEU
2	B	523	PHE
2	B	600	LYS
3	M	118	TYR
3	M	363	ASN
4	S	15	ARG
4	S	81	ALA
1	A	419	ILE
2	B	20	ARG

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Mol	Chain	Res	Type
2	B	142	LEU
2	B	535	GLN
2	B	573	GLU
3	M	57	GLY
1	A	302	ASN
1	A	439	ASP
2	B	37	TYR
2	B	155	LEU
2	B	372	THR
2	B	42	ILE
2	B	542	PRO
3	M	268	GLY
2	B	8	ILE
2	B	347	VAL
4	S	26	PRO
1	A	601	VAL

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM 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	536/898 (60%)	522 (97%)	14 (3%)	40	62
2	B	564/738 (76%)	546 (97%)	18 (3%)	34	56
3	M	353/441 (80%)	338 (96%)	15 (4%)	26	48
4	S	157/175 (90%)	155 (99%)	2 (1%)	61	74
All	All	1610/2252 (72%)	1561 (97%)	49 (3%)	37	57

All (49) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	170	LEU
1	A	175	PRO
1	A	186	PHE
1	A	196	LEU
1	A	241	TYR

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Mol	Chain	Res	Type
1	A	288	THR
1	A	291	ILE
1	A	292	TYR
1	A	376	GLU
1	A	378	ILE
1	A	418	ILE
1	A	439	ASP
1	A	484	VAL
1	A	509	PRO
2	B	1	MET
2	B	4	SER
2	B	10	SER
2	B	12	LEU
2	B	14	THR
2	B	16	LYS
2	B	19	THR
2	B	29	LYS
2	B	30	LEU
2	B	42	ILE
2	B	115	LEU
2	B	261	PRO
2	B	285	GLU
2	B	334	MET
2	B	352	ASN
2	B	418	TYR
2	B	518	ILE
2	B	592	TYR
3	M	3	LEU
3	M	68	VAL
3	M	99	ILE
3	M	100	LEU
3	M	118	TYR
3	M	214	LEU
3	M	293	PRO
3	M	343	ASN
3	M	352	GLN
3	M	379	LEU
3	M	437	TYR
3	M	439	TYR
3	M	452	ILE
3	M	472	TYR
3	M	479	PHE

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Mol	Chain	Res	Type
4	S	38	LEU
4	S	57	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (28) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	101	GLN
1	A	102	GLN
1	A	199	ASN
1	A	345	ASN
1	A	440	ASN
1	A	565	ASN
2	B	41	ASN
2	B	307	ASN
2	B	333	GLN
2	B	352	ASN
2	B	353	GLN
2	B	371	GLN
2	B	407	ASN
2	B	441	GLN
2	B	449	HIS
2	B	482	ASN
2	B	486	HIS
2	B	547	GLN
2	B	574	ASN
2	B	590	GLN
3	M	12	ASN
3	M	17	GLN
3	M	241	HIS
3	M	326	HIS
3	M	343	ASN
3	M	346	ASN
4	S	47	GLN
4	S	103	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

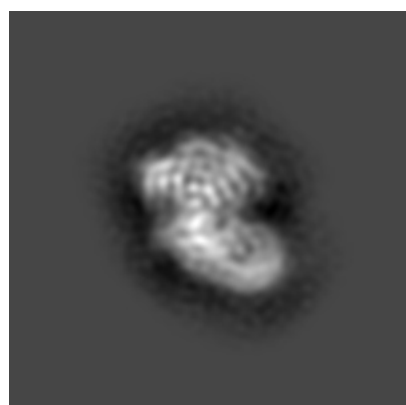
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-13189. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

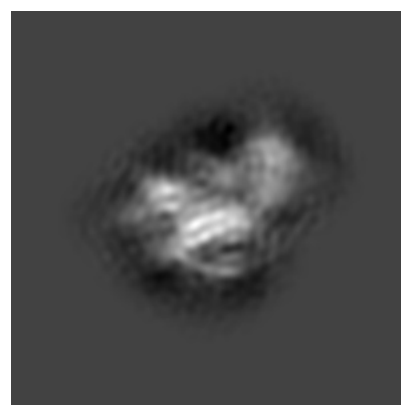
6.1.1 Primary map



X



Y

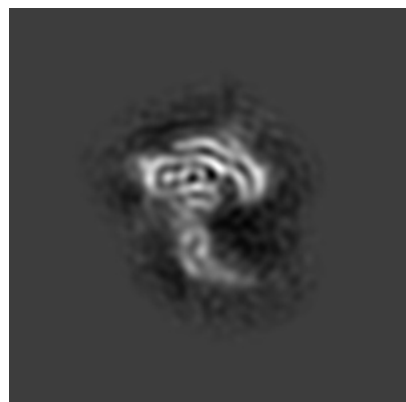


Z

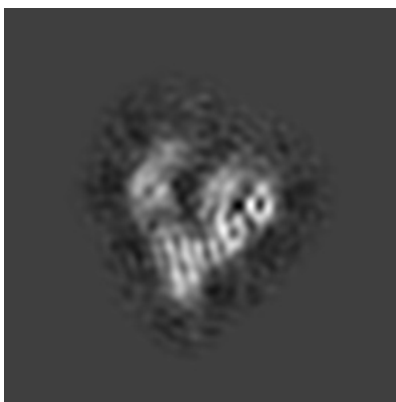
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

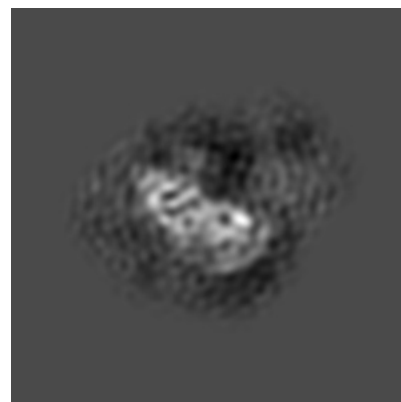
6.2.1 Primary map



X Index: 132



Y Index: 132



Z Index: 132

The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

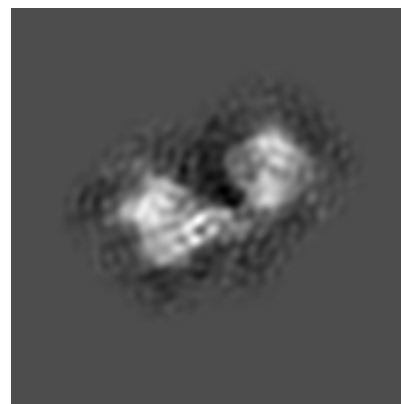
6.3.1 Primary map



X Index: 134



Y Index: 123



Z Index: 112

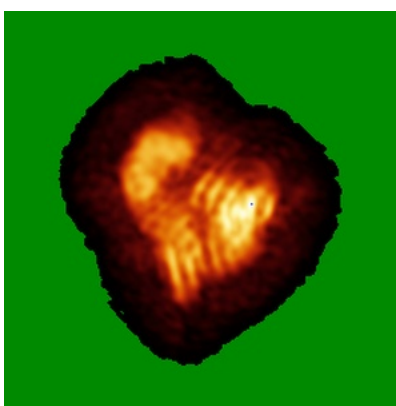
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

6.4.1 Primary map



X



Y

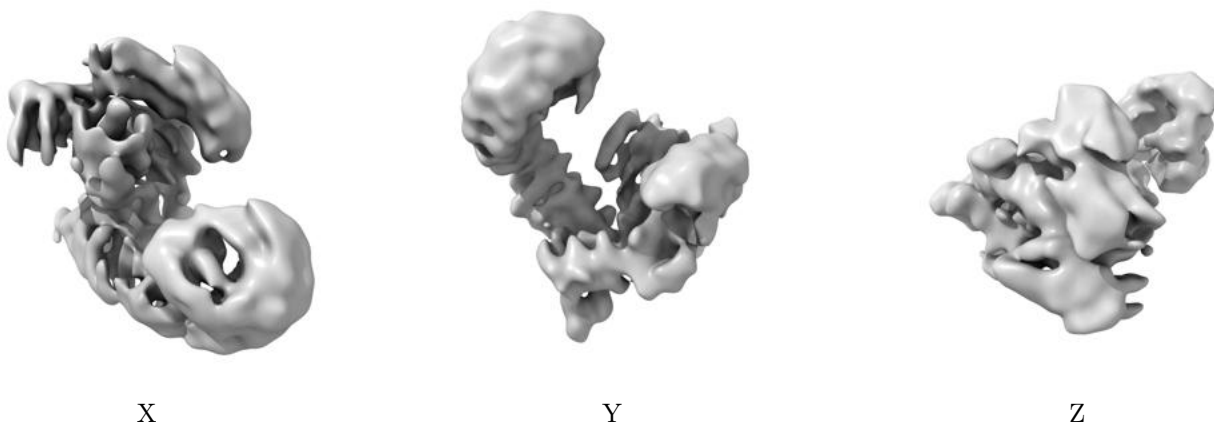


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0155. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

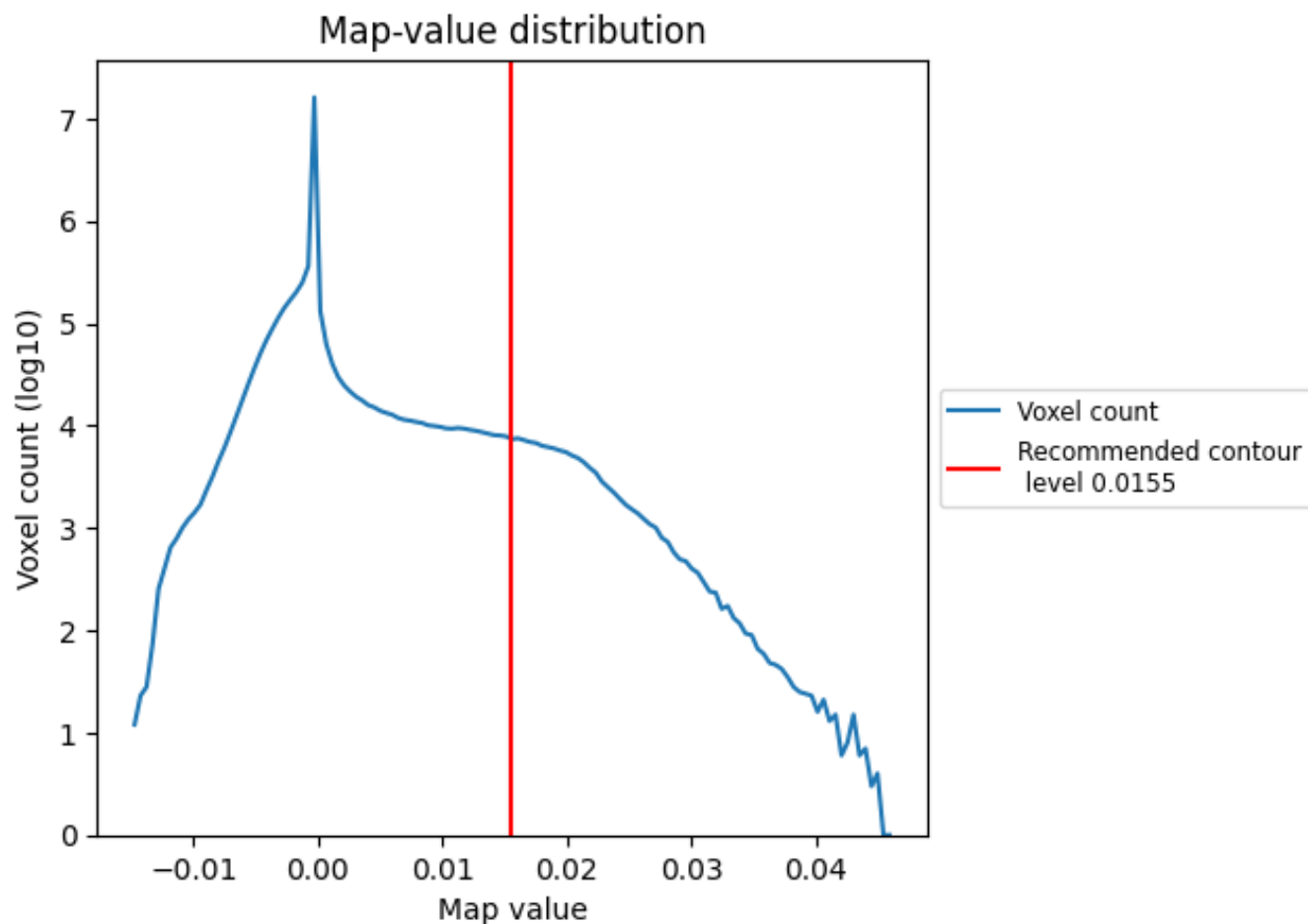
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

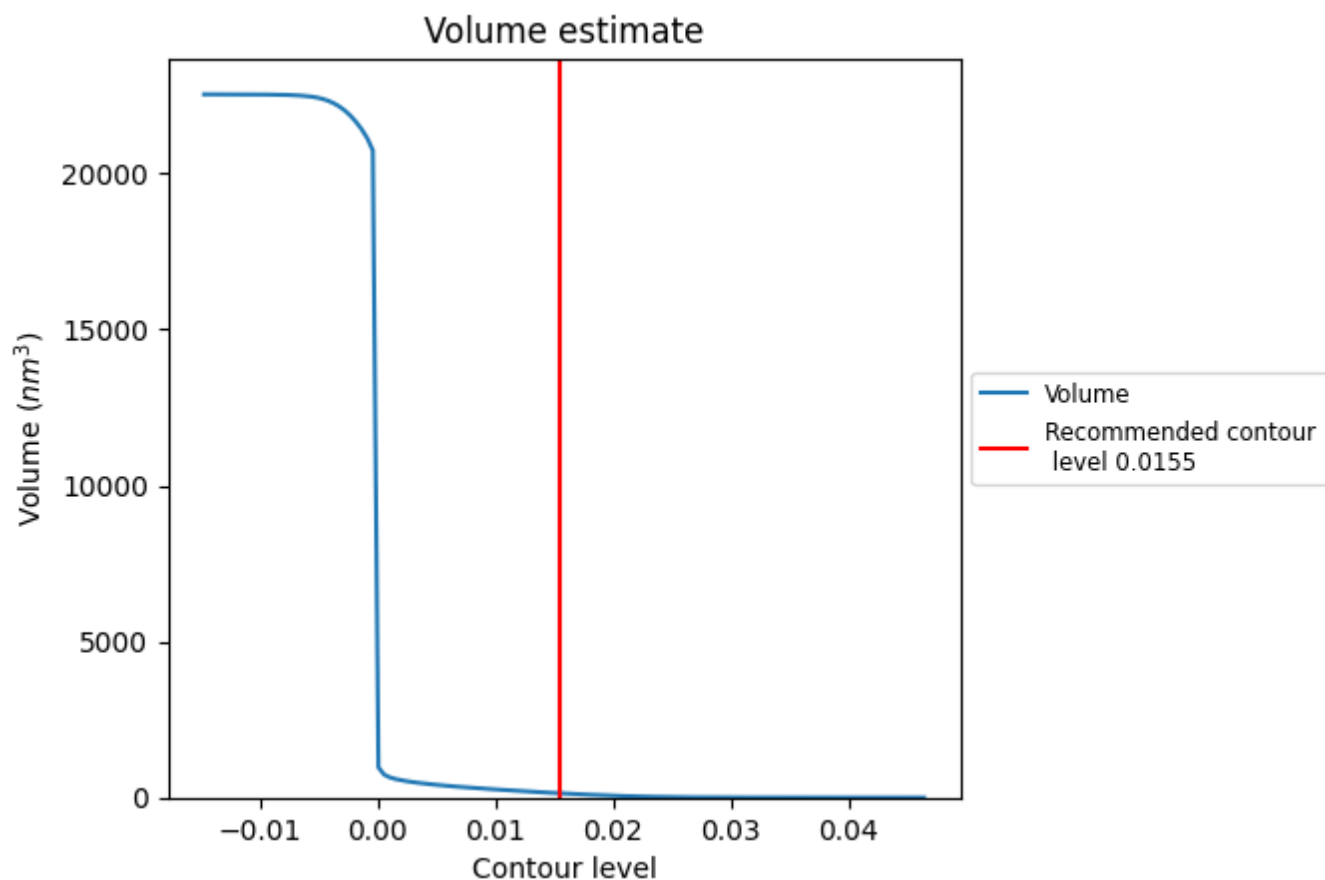
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

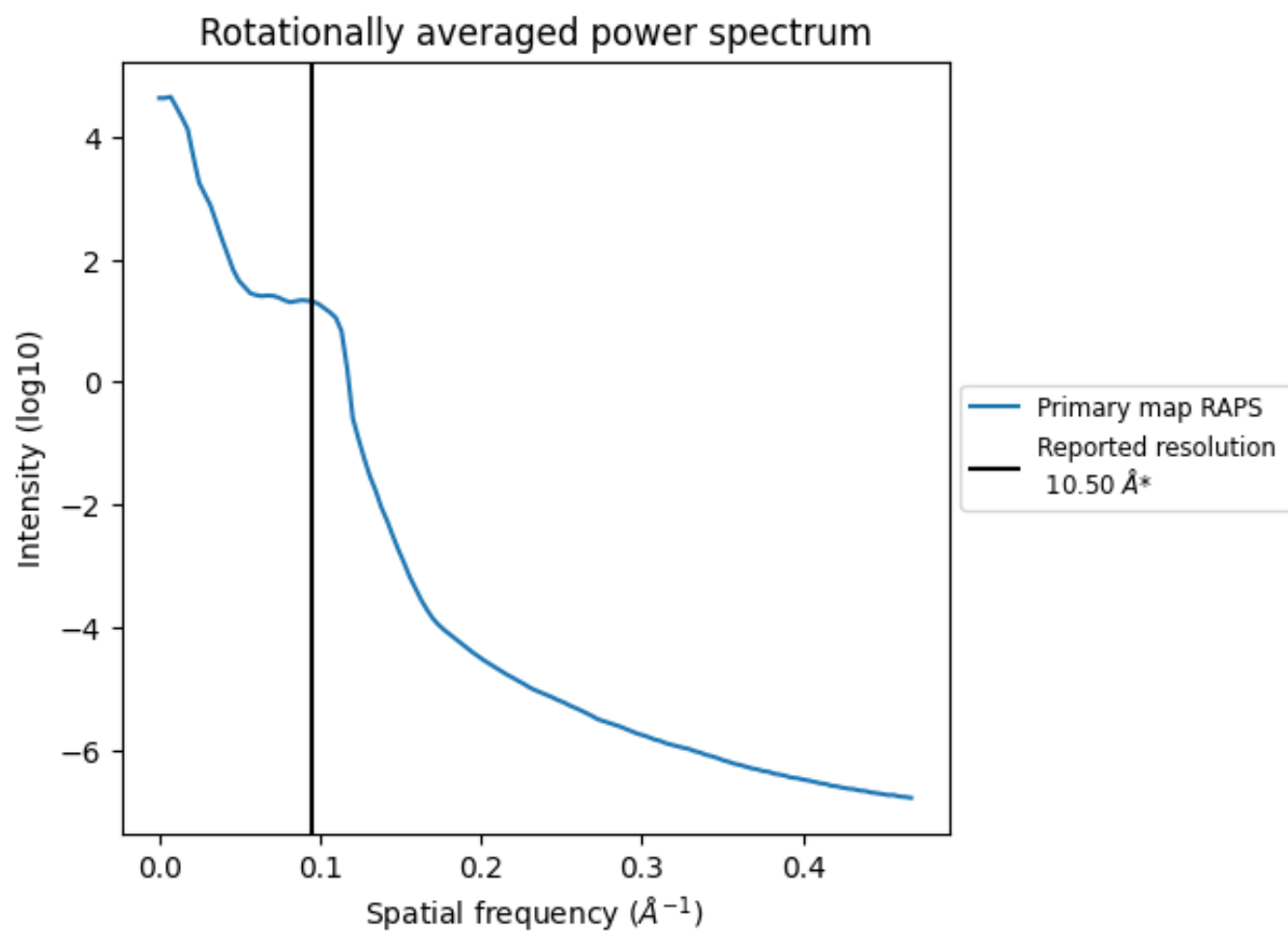
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 137 nm³; this corresponds to an approximate mass of 124 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.095 Å⁻¹

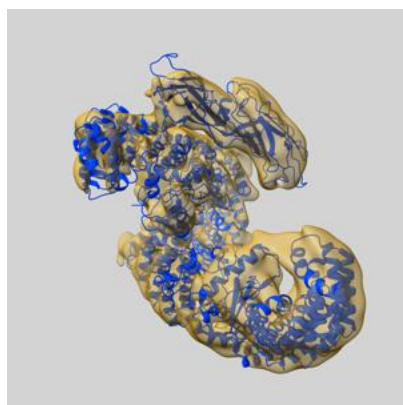
8 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.

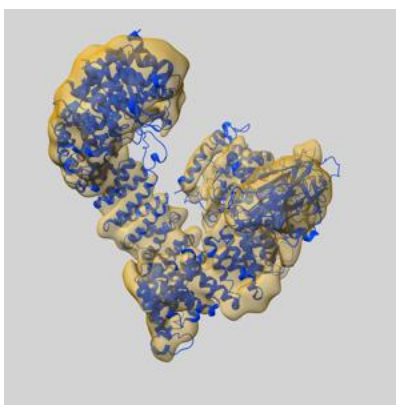
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-13189 and PDB model 7P3Z. Per-residue inclusion information can be found in section [3](#) on page [5](#).

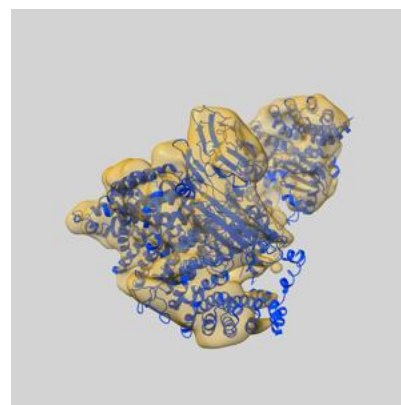
9.1 Map-model overlay [i](#)



X



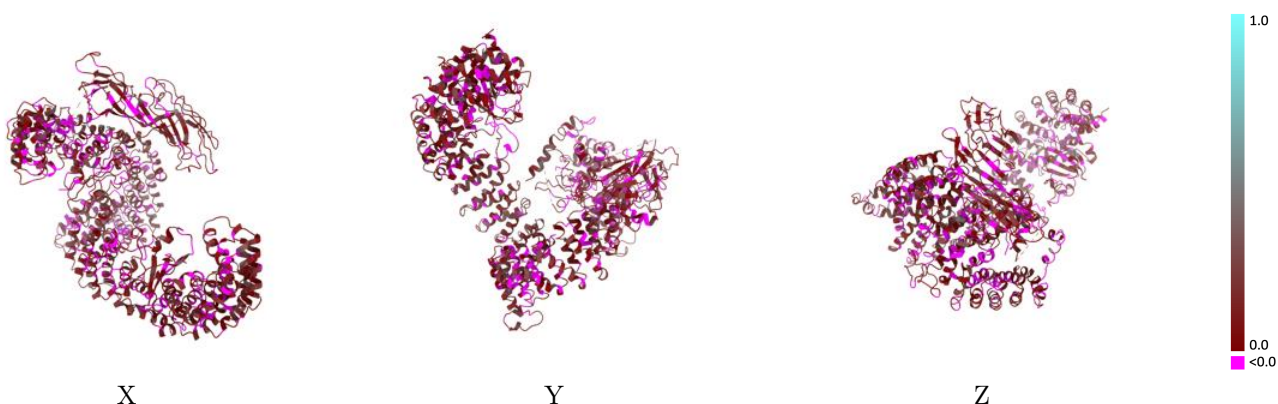
Y



Z

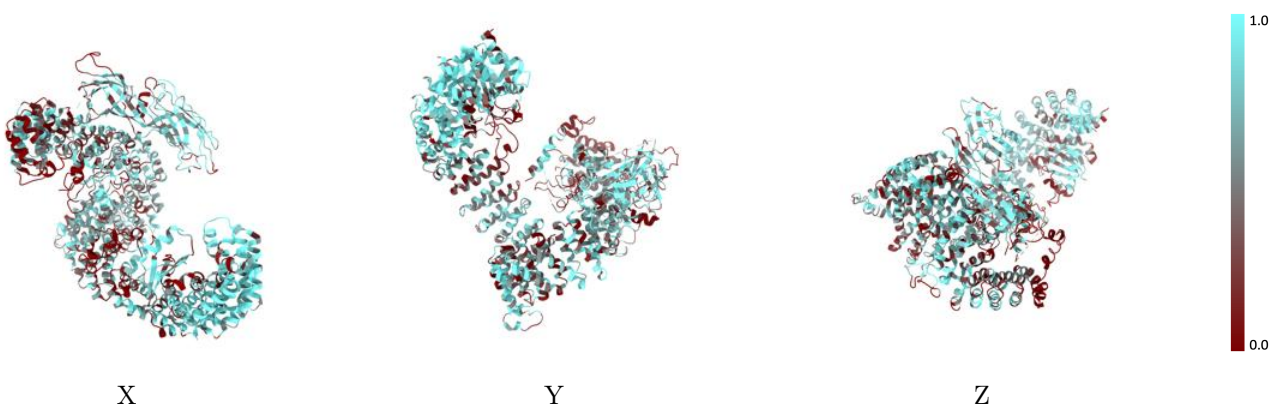
The images above show the 3D surface view of the map at the recommended contour level 0.0155 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



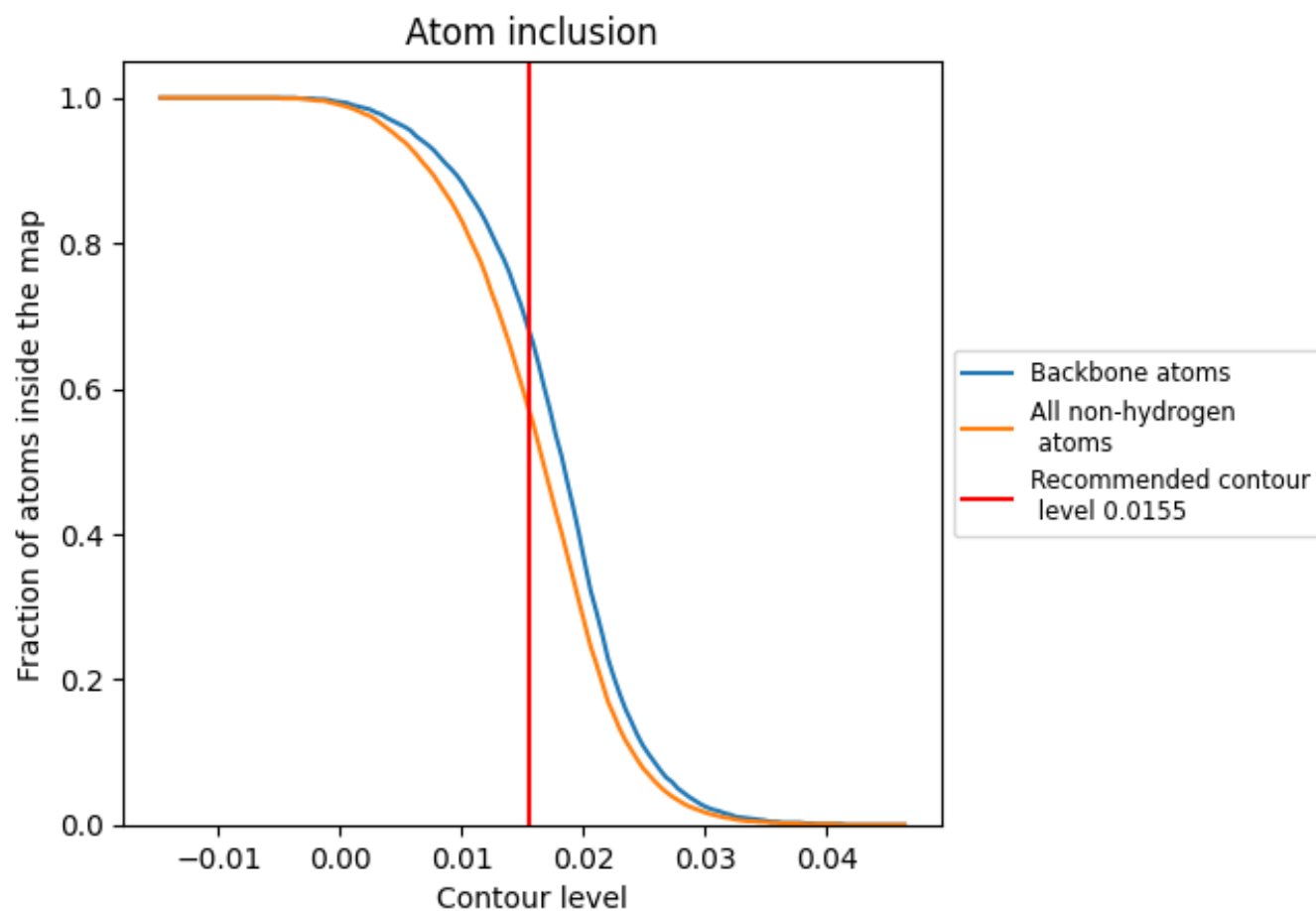
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0155).

9.4 Atom inclusion [i](#)



At the recommended contour level, 68% of all backbone atoms, 57% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.0155) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.5720	<div></div> 0.0890
A	<div></div> 0.6260	<div></div> 0.1070
B	<div></div> 0.5360	<div></div> 0.0790
M	<div></div> 0.5570	<div></div> 0.0870
S	<div></div> 0.5510	<div></div> 0.0730

