



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 08:22 AM UTC

PDB ID : 7P3X / pdb_00007p3x
EMDB ID : EMD-13187
Title : Homology model of the full-length AP-3 complex in a compact open conformation
Authors : Schubert, E.; Raunser, S.
Deposited on : 2021-07-09
Resolution : 9.10 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:

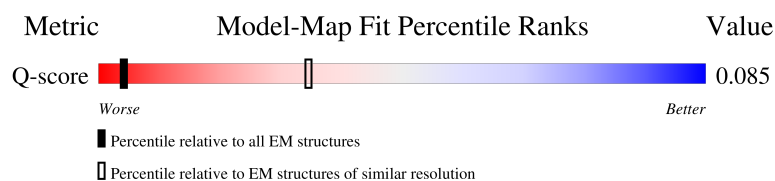
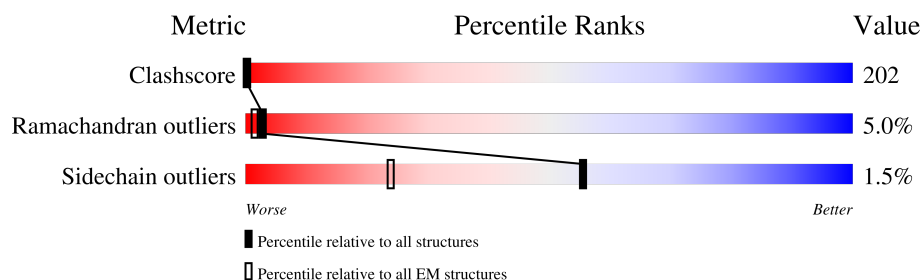
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 9.10 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	244 (8.60 - 9.60)

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	 21% 14% 38% 7% 40%
2	B	809	 28% 16% 52% 7% 23%
3	S	194	 57% 18% 56% 10% 13%
4	M	483	 25% 21% 50% 9% 18%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 14104 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
			4963	3168	830	937	28		

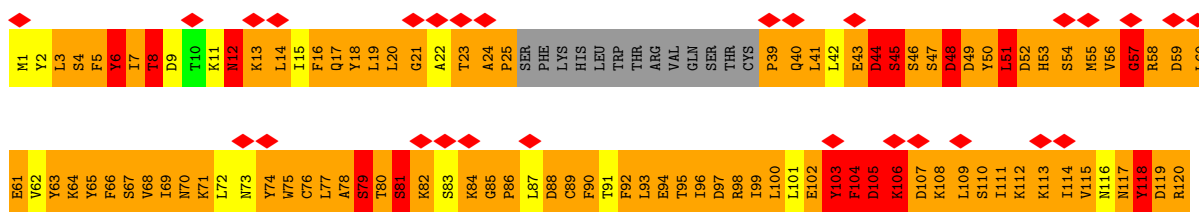
- Molecule 3 is a protein called AP complex subunit sigma.

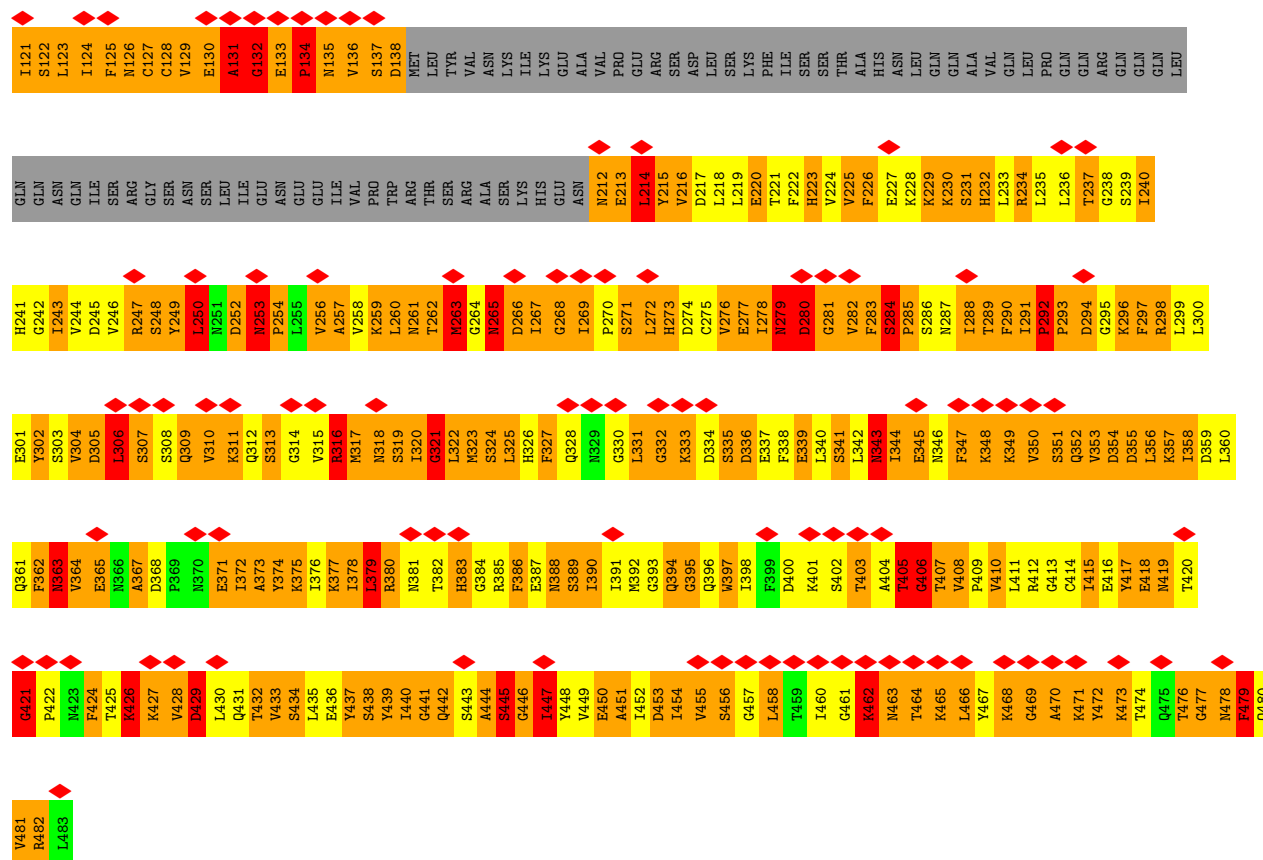
Mol	Chain	Residues	Atoms					AltConf	Trace
3	S	168	Total	C	N	O	S	0	0
			1358	867	215	272	4		

- Molecule 4 is a protein called AP-3 complex subunit mu.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	M	397	Total	C	N	O	S	0	0
			3158	2018	516	612	12		







4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	23039	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	0.049	Depositor
Minimum map value	-0.014	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.015	Depositor
Map size ($\text{\AA}$)	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 ($\text{\AA}$)	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	2.90	421/4699 (9.0%)	4.70	1221/6358 (19.2%)
2	B	2.68	403/5057 (8.0%)	4.24	1197/6855 (17.5%)
3	S	4.02	211/1379 (15.3%)	4.47	315/1874 (16.8%)
4	M	3.81	379/3217 (11.8%)	4.13	629/4346 (14.5%)
All	All	3.18	1414/14352 (9.9%)	4.39	3362/19433 (17.3%)

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	54
2	B	0	31
3	S	1	18
4	M	1	24
All	All	2	127

All (1414) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	104	PHE	N-CA	-34.72	1.01	1.46
4	M	135	ASN	C-N	-34.71	0.93	1.33
4	M	64	LYS	N-CA	-29.23	1.09	1.45
4	M	63	TYR	CA-C	-28.53	1.17	1.52
4	M	65	TYR	CA-C	-27.76	1.17	1.52
4	M	136	VAL	N-CA	-25.86	1.15	1.46
4	M	131	ALA	CA-C	-24.78	1.20	1.53
4	M	107	ASP	N-CA	-24.27	1.14	1.46
3	S	53	THR	N-CA	-23.95	1.17	1.45
4	M	56	VAL	CA-C	-23.10	1.26	1.52
3	S	48	SER	CA-C	-22.95	1.22	1.52
3	S	49	SER	N-CA	-22.71	1.16	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	61	GLU	CA-C	-22.54	1.25	1.52
3	S	68	VAL	C-N	21.94	1.67	1.33
3	S	58	LEU	CA-C	-21.92	1.26	1.52
3	S	163	THR	CA-C	21.83	1.83	1.52
4	M	135	ASN	CA-C	-21.55	1.26	1.52
3	S	46	PHE	CA-C	-21.44	1.24	1.52
1	A	138	ASN	CA-C	-20.52	1.30	1.53
3	S	48	SER	C-N	-20.39	1.03	1.33
4	M	133	GLU	N-CA	-19.84	1.17	1.45
3	S	50	PHE	CA-C	-19.65	1.27	1.52
1	A	438	ALA	CA-CB	-19.64	1.20	1.53
3	S	64	ASN	CA-C	19.57	1.80	1.52
4	M	132	GLY	CA-C	-19.51	1.24	1.51
4	M	62	VAL	CA-C	-19.50	1.28	1.52
4	M	282	VAL	N-CA	19.12	1.69	1.46
4	M	81	SER	C-N	-18.77	1.08	1.33
4	M	281	GLY	CA-C	18.69	1.78	1.51
4	M	225	VAL	CA-C	-18.59	1.32	1.52
1	A	218	ALA	CA-C	-18.59	1.27	1.52
3	S	63	ASN	CA-C	-18.35	1.31	1.52
3	S	49	SER	C-N	18.30	1.56	1.33
2	B	581	TYR	N-CA	-18.11	1.23	1.46
4	M	131	ALA	CA-CB	18.07	1.80	1.53
4	M	3	LEU	C-N	-18.06	1.08	1.33
3	S	83	LEU	CA-C	17.89	1.73	1.52
4	M	64	LYS	CA-C	-17.65	1.31	1.52
4	M	41	LEU	CA-C	-17.09	1.29	1.52
4	M	63	TYR	N-CA	-17.01	1.24	1.46
4	M	105	ASP	C-N	-16.71	1.10	1.33
4	M	66	PHE	N-CA	-16.70	1.22	1.46
4	M	354	ASP	CA-C	16.55	1.73	1.52
4	M	335	SER	CA-C	-16.53	1.32	1.52
3	S	124	ASN	N-CA	-16.50	1.26	1.46
4	M	137	SER	N-CA	-16.19	1.24	1.46
2	B	293	VAL	C-N	-16.17	1.13	1.33
4	M	62	VAL	N-CA	-16.12	1.27	1.46
4	M	80	THR	C-N	-16.09	1.11	1.33
4	M	65	TYR	N-CA	-15.59	1.26	1.46
1	A	404	GLN	N-CA	-15.53	1.27	1.46
4	M	348	LYS	CA-C	15.40	1.73	1.52
3	S	115	GLU	CA-C	-15.19	1.34	1.53
4	M	281	GLY	C-N	15.18	1.53	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	394	GLN	CA-C	-15.15	1.32	1.52
2	B	337	THR	N-CA	-15.11	1.28	1.46
4	M	61	GLU	C-N	-15.06	1.14	1.33
2	B	284	ASN	C-N	-15.02	1.13	1.33
3	S	116	VAL	CA-C	-15.00	1.34	1.52
1	A	407	SER	N-CA	14.87	1.65	1.45
1	A	515	CYS	CA-C	-14.84	1.33	1.52
4	M	52	ASP	C-N	-14.77	1.15	1.33
4	M	130	GLU	C-N	-14.76	1.12	1.33
3	S	51	LEU	N-CA	-14.71	1.27	1.46
2	B	212	VAL	C-O	14.66	1.38	1.24
1	A	405	THR	CA-C	-14.66	1.33	1.52
4	M	136	VAL	CA-C	-14.46	1.33	1.52
4	M	21	GLY	C-N	-14.38	1.13	1.33
1	A	534	LYS	CA-C	-14.23	1.33	1.52
4	M	103	TYR	CA-C	14.20	1.72	1.53
2	B	342	ALA	N-CA	-14.16	1.29	1.46
2	B	289	PRO	CA-C	-14.11	1.35	1.52
4	M	63	TYR	C-N	-14.11	1.13	1.33
2	B	522	GLU	CA-C	-14.06	1.38	1.53
3	S	143	GLU	CA-C	-14.06	1.36	1.52
4	M	132	GLY	N-CA	-13.98	1.25	1.45
4	M	351	SER	C-N	-13.92	1.14	1.33
1	A	406	GLY	C-N	13.87	1.51	1.33
4	M	55	MET	C-N	13.78	1.50	1.33
4	M	439	TYR	CA-C	-13.73	1.36	1.52
4	M	20	LEU	C-N	-13.71	1.14	1.33
1	A	467	LYS	N-CA	-13.71	1.28	1.46
1	A	217	ALA	C-N	13.62	1.52	1.34
1	A	87	CYS	N-CA	-13.59	1.29	1.46
1	A	513	ARG	N-CA	-13.52	1.30	1.46
4	M	91	THR	CA-C	-13.47	1.33	1.52
2	B	581	TYR	C-N	-13.38	1.15	1.33
3	S	55	PRO	N-CA	13.31	1.65	1.47
4	M	230	LYS	CA-C	13.30	1.71	1.53
4	M	239	SER	N-CA	-13.30	1.30	1.46
4	M	106	LYS	C-N	-13.30	1.15	1.33
1	A	289	SER	C-N	-13.27	1.18	1.33
1	A	406	GLY	CA-C	13.24	1.70	1.51
1	A	552	ILE	CA-C	-13.22	1.35	1.52
1	A	440	ASN	N-CA	-13.20	1.30	1.46
3	S	103	GLN	CA-C	-13.16	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	231	SER	N-CA	13.13	1.63	1.46
1	A	507	GLN	C-N	-13.11	1.17	1.33
2	B	329	ALA	CA-C	-13.08	1.35	1.52
4	M	131	ALA	N-CA	-13.05	1.27	1.46
3	S	144	THR	N-CA	-13.04	1.29	1.46
4	M	349	LYS	N-CA	13.01	1.63	1.46
3	S	72	ASP	N-CA	-12.90	1.29	1.46
1	A	477	PHE	N-CA	-12.87	1.30	1.46
3	S	67	GLU	N-CA	-12.80	1.28	1.45
4	M	282	VAL	CA-C	-12.76	1.36	1.52
4	M	293	PRO	N-CD	12.72	1.65	1.47
1	A	378	ILE	C-N	-12.66	1.19	1.33
4	M	450	GLU	C-N	-12.60	1.17	1.33
2	B	501	THR	N-CA	-12.54	1.29	1.46
2	B	185	LYS	N-CA	-12.53	1.30	1.46
4	M	348	LYS	C-N	12.53	1.52	1.33
4	M	288	ILE	CA-C	-12.47	1.37	1.52
4	M	70	ASN	C-N	-12.45	1.18	1.33
4	M	59	ASP	N-CA	12.45	1.62	1.46
4	M	294	ASP	N-CA	-12.45	1.30	1.45
4	M	60	LEU	CA-C	-12.44	1.37	1.52
3	S	60	SER	N-CA	-12.41	1.30	1.45
2	B	382	TYR	CA-C	-12.40	1.37	1.52
1	A	387	ILE	CA-C	-12.38	1.36	1.52
1	A	139	ASP	N-CA	-12.36	1.30	1.46
4	M	279	ASN	C-N	-12.34	1.16	1.33
4	M	97	ASP	CA-C	-12.33	1.36	1.52
3	S	6	LEU	C-N	-12.32	1.18	1.33
4	M	319	SER	C-N	-12.29	1.17	1.33
4	M	295	GLY	CA-C	12.29	1.69	1.51
4	M	287	ASN	CA-C	12.25	1.67	1.52
2	B	153	ILE	CA-C	-12.23	1.37	1.52
4	M	352	GLN	C-N	-12.16	1.16	1.33
4	M	64	LYS	C-N	-12.15	1.18	1.33
3	S	5	VAL	CA-C	12.06	1.67	1.52
3	S	22	PRO	C-N	-12.01	1.18	1.33
4	M	283	PHE	N-CA	-11.99	1.31	1.46
3	S	57	LEU	CA-C	-11.98	1.37	1.52
4	M	262	THR	CA-C	-11.95	1.37	1.52
1	A	125	THR	N-CA	-11.94	1.32	1.46
2	B	307	ASN	N-CA	-11.92	1.32	1.46
3	S	2	ILE	CA-C	-11.84	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	401	VAL	CA-C	-11.82	1.37	1.52
1	A	388	VAL	CA-C	-11.81	1.39	1.52
3	S	140	MET	N-CA	-11.79	1.31	1.46
1	A	71	VAL	CA-C	-11.75	1.36	1.52
1	A	242	GLU	CA-C	-11.74	1.37	1.52
1	A	244	LEU	C-N	-11.73	1.20	1.34
2	B	363	ILE	CA-C	-11.70	1.38	1.52
3	S	8	PHE	C-N	-11.69	1.16	1.33
2	B	293	VAL	CA-C	-11.65	1.37	1.52
2	B	260	LEU	N-CA	-11.57	1.29	1.46
4	M	278	ILE	CA-C	-11.56	1.38	1.52
3	S	70	ASN	C-N	-11.53	1.17	1.33
4	M	136	VAL	C-N	-11.52	1.18	1.33
2	B	567	GLN	CA-C	-11.50	1.38	1.53
3	S	71	GLU	N-CA	-11.49	1.27	1.47
4	M	109	LEU	N-CA	-11.45	1.32	1.46
1	A	302	ASN	CA-C	-11.45	1.37	1.52
4	M	134	PRO	C-N	-11.42	1.16	1.33
1	A	418	ILE	C-N	11.42	1.47	1.33
2	B	187	ASP	CA-C	-11.38	1.37	1.52
2	B	259	TYR	CA-C	-11.36	1.37	1.52
4	M	21	GLY	N-CA	-11.34	1.32	1.45
4	M	420	THR	N-CA	-11.30	1.32	1.46
2	B	363	ILE	N-CA	-11.29	1.33	1.46
1	A	508	LEU	C-N	-11.28	1.18	1.34
3	S	114	THR	C-N	-11.27	1.18	1.33
1	A	566	PHE	CA-C	-11.24	1.37	1.52
1	A	348	PHE	CA-C	-11.21	1.37	1.52
1	A	464	ILE	CA-C	-11.18	1.38	1.52
4	M	379	LEU	C-N	-11.16	1.18	1.33
2	B	304	GLN	CA-C	-11.14	1.38	1.52
1	A	439	ASP	C-N	-11.11	1.19	1.33
1	A	531	ASP	CA-C	-11.10	1.37	1.52
2	B	395	LYS	CA-C	-11.06	1.37	1.52
2	B	184	GLY	C-N	-11.05	1.19	1.34
4	M	322	LEU	C-O	11.05	1.36	1.23
2	B	383	VAL	CA-C	-10.98	1.40	1.52
4	M	377	LYS	C-N	-10.94	1.19	1.33
4	M	56	VAL	C-N	-10.92	1.18	1.33
1	A	623	MET	CA-C	-10.89	1.38	1.52
3	S	113	PHE	C-N	-10.87	1.19	1.33
4	M	95	THR	N-CA	10.87	1.59	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	285	GLU	N-CA	-10.86	1.32	1.46
2	B	500	GLN	CA-C	-10.86	1.40	1.53
1	A	508	LEU	CA-C	-10.83	1.40	1.53
4	M	402	SER	C-N	10.81	1.48	1.33
2	B	443	SER	CA-C	-10.75	1.39	1.52
4	M	403	THR	C-N	-10.75	1.17	1.33
2	B	330	SER	N-CA	-10.74	1.31	1.45
4	M	419	ASN	CA-C	-10.73	1.40	1.52
2	B	515	PHE	CA-C	10.71	1.67	1.52
1	A	147	LEU	CA-C	-10.68	1.39	1.52
2	B	334	MET	C-N	-10.66	1.19	1.34
2	B	582	ASP	N-CA	-10.65	1.33	1.45
1	A	192	TYR	CA-C	-10.64	1.39	1.52
3	S	116	VAL	N-CA	-10.63	1.33	1.46
4	M	296	LYS	CA-C	-10.62	1.38	1.52
1	A	221	VAL	N-CA	10.62	1.58	1.46
4	M	81	SER	N-CA	-10.61	1.32	1.46
1	A	399	ASP	CA-C	-10.61	1.40	1.52
2	B	334	MET	N-CA	10.60	1.60	1.46
4	M	118	TYR	CA-C	-10.60	1.38	1.52
2	B	334	MET	CA-C	-10.59	1.37	1.52
3	S	158	LYS	CA-C	-10.52	1.38	1.52
1	A	533	ILE	N-CA	-10.52	1.33	1.46
4	M	62	VAL	C-N	-10.47	1.17	1.33
2	B	458	MET	C-O	10.46	1.36	1.24
2	B	580	TYR	CA-C	-10.45	1.39	1.52
4	M	96	ILE	C-N	10.42	1.47	1.33
3	S	4	ALA	CA-CB	10.39	1.71	1.53
2	B	219	TYR	C-N	-10.38	1.21	1.33
2	B	382	TYR	N-CA	-10.35	1.33	1.46
2	B	183	ALA	CA-CB	-10.34	1.35	1.53
4	M	398	ILE	CA-C	10.34	1.64	1.52
1	A	633	PHE	CA-C	-10.31	1.39	1.52
4	M	323	MET	N-CA	-10.31	1.33	1.46
1	A	634	ASN	CA-C	-10.30	1.38	1.52
3	S	52	VAL	CA-C	-10.30	1.40	1.52
2	B	485	LYS	CA-C	-10.28	1.39	1.52
4	M	113	LYS	CA-C	-10.26	1.39	1.52
1	A	216	SER	C-N	10.25	1.47	1.33
3	S	120	ASP	N-CA	-10.23	1.32	1.46
1	A	464	ILE	C-N	-10.22	1.20	1.33
3	S	62	GLU	C-N	-10.22	1.20	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	S	167	ILE	C-N	10.20	1.47	1.33
4	M	68	VAL	N-CA	-10.20	1.34	1.46
3	S	70	ASN	CA-C	-10.20	1.39	1.52
1	A	558	VAL	CA-C	-10.17	1.40	1.52
4	M	82	LYS	C-N	-10.17	1.19	1.33
4	M	288	ILE	N-CA	10.17	1.59	1.46
4	M	320	ILE	N-CA	-10.14	1.33	1.46
1	A	444	VAL	N-CA	-10.14	1.34	1.46
4	M	293	PRO	CA-C	-10.13	1.38	1.52
1	A	466	ASP	CA-C	-10.10	1.40	1.52
3	S	108	SER	N-CA	-10.07	1.33	1.46
4	M	126	ASN	CA-C	-10.07	1.39	1.52
1	A	465	SER	CA-C	-10.05	1.40	1.52
4	M	392	MET	N-CA	-10.03	1.32	1.46
4	M	453	ASP	C-N	-10.02	1.16	1.33
2	B	421	SER	CA-C	-9.98	1.41	1.52
4	M	280	ASP	CA-C	-9.97	1.39	1.52
1	A	535	ILE	C-N	-9.96	1.19	1.33
2	B	296	ASP	CA-C	-9.96	1.40	1.52
1	A	550	VAL	CA-C	-9.96	1.38	1.52
1	A	120	ILE	CA-C	-9.95	1.39	1.52
4	M	130	GLU	CA-C	9.94	1.66	1.53
1	A	218	ALA	CA-CB	-9.94	1.37	1.53
2	B	35	TYR	CA-C	-9.94	1.39	1.52
4	M	105	ASP	N-CA	-9.91	1.33	1.46
2	B	83	PHE	C-N	9.90	1.47	1.34
1	A	489	GLU	CA-C	-9.89	1.39	1.52
3	S	60	SER	C-N	-9.89	1.20	1.33
1	A	214	VAL	CA-C	-9.89	1.40	1.52
1	A	445	ASN	CA-C	-9.87	1.39	1.52
2	B	344	VAL	CA-CB	-9.86	1.43	1.54
2	B	422	ALA	CA-C	-9.85	1.39	1.53
1	A	298	ILE	C-O	9.84	1.35	1.24
1	A	441	TYR	C-O	-9.83	1.11	1.24
4	M	344	ILE	CA-C	-9.82	1.40	1.52
4	M	364	VAL	CA-C	-9.81	1.40	1.52
4	M	455	VAL	CA-C	-9.77	1.43	1.52
3	S	22	PRO	N-CA	-9.76	1.35	1.46
3	S	67	GLU	CA-C	-9.76	1.39	1.53
4	M	89	CYS	CA-C	-9.74	1.40	1.52
3	S	99	LEU	CA-C	-9.72	1.40	1.52
4	M	440	ILE	C-N	-9.71	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	S	125	TRP	CA-C	-9.70	1.40	1.52
1	A	465	SER	N-CA	-9.70	1.33	1.46
1	A	387	ILE	N-CA	-9.68	1.34	1.46
4	M	99	ILE	CA-C	-9.67	1.40	1.52
2	B	568	VAL	N-CA	-9.67	1.34	1.46
1	A	281	LEU	N-CA	9.66	1.58	1.46
2	B	274	PRO	N-CD	9.66	1.61	1.47
1	A	466	ASP	C-N	-9.65	1.20	1.34
4	M	6	TYR	CA-C	9.65	1.64	1.52
2	B	329	ALA	N-CA	-9.65	1.34	1.46
4	M	261	ASN	CA-C	-9.63	1.40	1.52
2	B	290	SER	CA-C	-9.63	1.39	1.52
4	M	373	ALA	CA-C	-9.62	1.40	1.52
4	M	407	THR	N-CA	-9.60	1.34	1.45
1	A	394	GLN	N-CA	-9.58	1.34	1.46
2	B	576	GLN	C-N	-9.56	1.21	1.33
1	A	143	VAL	CA-C	-9.56	1.41	1.52
3	S	29	LYS	CA-C	-9.55	1.40	1.52
4	M	108	LYS	CA-C	-9.54	1.42	1.53
3	S	108	SER	CA-C	-9.54	1.40	1.52
4	M	78	ALA	C-N	-9.54	1.21	1.33
1	A	588	LEU	C-N	-9.52	1.20	1.33
1	A	287	ALA	CA-CB	-9.51	1.37	1.53
3	S	80	TYR	N-CA	-9.51	1.35	1.46
4	M	292	PRO	CA-C	9.48	1.60	1.52
4	M	41	LEU	C-N	9.46	1.46	1.34
1	A	263	LEU	N-CA	-9.45	1.34	1.46
1	A	509	PRO	N-CD	9.43	1.60	1.47
3	S	64	ASN	C-N	9.40	1.46	1.33
1	A	602	GLU	C-N	9.40	1.44	1.34
4	M	272	LEU	CA-C	9.40	1.64	1.52
1	A	499	ILE	C-O	-9.39	1.12	1.24
1	A	355	LEU	CA-C	-9.36	1.40	1.52
2	B	528	ASP	CA-C	-9.36	1.40	1.52
3	S	25	LEU	CA-C	9.35	1.64	1.52
4	M	404	ALA	N-CA	-9.32	1.34	1.45
1	A	400	VAL	CA-C	-9.32	1.40	1.52
4	M	440	ILE	N-CA	-9.31	1.33	1.46
3	S	48	SER	N-CA	-9.28	1.34	1.46
2	B	264	THR	CA-C	-9.27	1.41	1.52
2	B	222	HIS	N-CA	9.25	1.58	1.46
2	B	576	GLN	CA-C	-9.25	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	S	138	GLY	C-N	9.25	1.44	1.33
1	A	378	ILE	CA-C	-9.24	1.41	1.52
3	S	59	LEU	N-CA	-9.24	1.34	1.46
1	A	277	LYS	C-N	-9.24	1.20	1.33
2	B	226	LEU	CA-C	-9.24	1.40	1.52
3	S	3	HIS	N-CA	-9.23	1.33	1.46
2	B	500	GLN	C-N	-9.22	1.21	1.33
4	M	50	TYR	C-N	-9.22	1.20	1.33
4	M	111	ILE	CA-C	-9.21	1.41	1.52
1	A	83	ASP	CA-C	-9.20	1.40	1.52
3	S	84	TYR	C-N	-9.21	1.21	1.33
2	B	82	TYR	N-CA	-9.19	1.34	1.46
1	A	175	PRO	N-CD	9.19	1.60	1.47
1	A	435	ILE	N-CA	-9.18	1.35	1.46
4	M	55	MET	N-CA	-9.17	1.33	1.46
2	B	169	VAL	CA-C	-9.14	1.41	1.52
2	B	428	VAL	CA-C	-9.12	1.41	1.52
2	B	337	THR	CA-C	-9.12	1.41	1.52
4	M	426	LYS	C-N	-9.12	1.22	1.33
2	B	326	TYR	N-CA	-9.11	1.34	1.46
3	S	144	THR	C-N	-9.11	1.20	1.33
4	M	442	GLN	N-CA	-9.07	1.32	1.46
1	A	467	LYS	CA-C	-9.07	1.40	1.52
4	M	18	TYR	N-CA	-9.06	1.34	1.45
2	B	301	LEU	N-CA	-9.06	1.34	1.46
4	M	22	ALA	N-CA	-9.06	1.34	1.46
3	S	132	LEU	CA-C	-9.05	1.40	1.52
3	S	141	VAL	CA-C	-9.05	1.41	1.52
1	A	444	VAL	CA-C	-9.05	1.42	1.52
2	B	555	LEU	CA-C	-9.05	1.40	1.52
1	A	508	LEU	N-CA	-9.04	1.36	1.46
1	A	138	ASN	C-N	-9.03	1.21	1.34
2	B	352	ASN	C-N	-9.03	1.21	1.33
4	M	6	TYR	C-N	-9.03	1.20	1.33
2	B	568	VAL	CA-C	-9.02	1.41	1.52
2	B	328	LEU	CA-C	-9.02	1.40	1.52
4	M	250	LEU	N-CA	-9.02	1.36	1.46
4	M	263	MET	N-CA	-9.02	1.34	1.46
4	M	462	LYS	C-N	-9.00	1.21	1.33
1	A	522	PHE	CA-C	-8.99	1.39	1.52
4	M	441	GLY	C-N	-8.99	1.22	1.33
3	S	14	PRO	C-N	-8.98	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	331	LEU	CA-C	-8.98	1.41	1.53
1	A	220	SER	C-N	8.98	1.45	1.33
4	M	308	SER	C-N	8.97	1.45	1.33
1	A	270	LEU	CA-C	-8.96	1.41	1.52
1	A	509	PRO	CA-C	-8.96	1.39	1.52
3	S	36	TYR	CA-C	-8.96	1.41	1.52
4	M	284	SER	C-N	-8.95	1.24	1.34
2	B	460	SER	CA-C	-8.94	1.40	1.52
1	A	589	SER	N-CA	-8.90	1.34	1.46
2	B	336	ASN	C-N	-8.90	1.22	1.33
3	S	81	ALA	CA-CB	-8.89	1.38	1.53
4	M	288	ILE	C-N	-8.88	1.19	1.33
1	A	392	MET	N-CA	-8.86	1.35	1.46
1	A	631	SER	CA-C	-8.86	1.41	1.52
4	M	66	PHE	C-N	-8.85	1.22	1.33
1	A	410	TYR	N-CA	-8.85	1.34	1.46
3	S	83	LEU	N-CA	-8.85	1.35	1.45
2	B	380	LYS	C-O	-8.84	1.13	1.24
2	B	559	ASP	CA-C	-8.83	1.40	1.52
4	M	425	THR	CA-C	8.81	1.64	1.52
2	B	572	GLU	CA-C	-8.78	1.40	1.52
2	B	265	VAL	CA-C	-8.78	1.42	1.52
1	A	635	ALA	CA-C	-8.77	1.41	1.52
2	B	256	CYS	N-CA	-8.75	1.35	1.46
2	B	381	PHE	C-N	-8.75	1.21	1.33
1	A	511	VAL	N-CA	-8.74	1.35	1.46
4	M	71	LYS	N-CA	-8.73	1.35	1.46
1	A	162	ILE	CA-C	-8.72	1.42	1.52
4	M	336	ASP	N-CA	-8.72	1.34	1.45
4	M	129	VAL	C-O	-8.72	1.13	1.24
4	M	133	GLU	CA-C	-8.71	1.42	1.53
4	M	96	ILE	CA-C	-8.71	1.42	1.52
1	A	221	VAL	CA-C	-8.70	1.42	1.52
2	B	526	CYS	CA-C	-8.70	1.41	1.52
4	M	262	THR	N-CA	-8.70	1.35	1.46
4	M	280	ASP	C-N	-8.70	1.20	1.33
1	A	615	GLU	N-CA	-8.68	1.35	1.46
4	M	267	ILE	CA-C	-8.68	1.42	1.52
3	S	121	LEU	CA-C	-8.67	1.41	1.52
2	B	177	ILE	CA-C	-8.65	1.41	1.52
3	S	69	ASN	CA-C	-8.65	1.40	1.52
2	B	276	SER	N-CA	-8.64	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	514	GLU	C-O	-8.63	1.14	1.24
1	A	388	VAL	N-CA	-8.63	1.36	1.46
2	B	494	ALA	CA-C	-8.62	1.40	1.52
1	A	544	SER	CA-C	-8.61	1.41	1.53
3	S	35	VAL	N-CA	-8.61	1.34	1.46
4	M	287	ASN	C-N	8.61	1.42	1.33
3	S	105	PHE	N-CA	-8.60	1.35	1.46
4	M	65	TYR	C-N	-8.60	1.21	1.33
1	A	162	ILE	N-CA	-8.58	1.36	1.46
4	M	223	HIS	C-N	-8.57	1.21	1.33
1	A	257	LEU	CA-C	-8.57	1.41	1.52
3	S	119	LEU	C-N	8.56	1.46	1.33
2	B	557	SER	C-N	-8.56	1.21	1.33
2	B	339	PHE	CA-C	-8.55	1.41	1.52
4	M	137	SER	CA-C	-8.55	1.40	1.52
4	M	296	LYS	N-CA	8.55	1.57	1.46
3	S	47	GLN	N-CA	-8.54	1.35	1.46
4	M	82	LYS	CA-C	8.53	1.63	1.52
3	S	83	LEU	C-N	-8.53	1.21	1.33
3	S	7	ILE	C-N	8.51	1.45	1.33
3	S	105	PHE	CA-C	-8.51	1.41	1.52
1	A	403	LEU	C-O	-8.49	1.13	1.24
4	M	20	LEU	CA-C	-8.49	1.42	1.52
1	A	233	PHE	C-N	-8.49	1.24	1.34
2	B	115	LEU	CA-C	-8.49	1.41	1.52
2	B	381	PHE	CA-C	-8.49	1.40	1.52
2	B	486	HIS	CA-C	-8.49	1.42	1.52
1	A	217	ALA	CA-C	-8.48	1.42	1.52
1	A	281	LEU	C-N	-8.46	1.22	1.34
1	A	341	ILE	CA-C	-8.46	1.42	1.52
1	A	271	ARG	CA-C	-8.46	1.41	1.52
4	M	290	PHE	C-N	-8.45	1.24	1.33
1	A	415	ARG	C-N	-8.45	1.23	1.33
4	M	228	LYS	C-N	-8.44	1.21	1.33
4	M	257	ALA	N-CA	-8.43	1.35	1.46
4	M	61	GLU	N-CA	-8.42	1.35	1.46
3	S	130	SER	CA-C	-8.42	1.41	1.52
3	S	115	GLU	C-N	-8.41	1.22	1.33
4	M	354	ASP	C-N	-8.41	1.22	1.33
4	M	440	ILE	CA-C	-8.40	1.41	1.52
1	A	362	ASP	C-N	-8.39	1.24	1.34
2	B	275	ARG	C-N	-8.38	1.22	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	83	SER	N-CA	-8.38	1.35	1.46
1	A	303	MET	N-CA	-8.38	1.35	1.46
1	A	632	PHE	CA-C	-8.38	1.41	1.52
2	B	150	LEU	N-CA	-8.36	1.34	1.46
4	M	7	ILE	CA-C	-8.35	1.42	1.52
2	B	458	MET	C-N	8.34	1.45	1.33
4	M	365	GLU	N-CA	-8.33	1.36	1.46
1	A	453	VAL	N-CA	-8.32	1.36	1.46
2	B	408	VAL	CA-C	-8.32	1.42	1.52
2	B	529	VAL	CA-C	-8.32	1.41	1.52
3	S	66	ASP	CA-C	8.26	1.64	1.52
2	B	284	ASN	CA-C	-8.26	1.41	1.53
2	B	290	SER	N-CA	-8.26	1.35	1.46
4	M	138	ASP	N-CA	-8.26	1.30	1.46
1	A	85	ALA	C-N	8.25	1.45	1.33
3	S	6	LEU	CA-C	8.25	1.62	1.52
2	B	219	TYR	CA-C	-8.24	1.40	1.52
4	M	373	ALA	C-N	-8.24	1.22	1.33
1	A	516	ILE	CA-C	-8.23	1.42	1.52
3	S	10	LYS	CA-C	-8.21	1.41	1.52
1	A	153	ILE	C-N	-8.20	1.25	1.33
3	S	143	GLU	C-N	-8.20	1.22	1.33
4	M	394	GLN	CA-C	8.19	1.62	1.52
3	S	104	THR	CA-C	-8.18	1.41	1.52
4	M	355	ASP	CA-C	8.15	1.63	1.52
3	S	38	LEU	CA-C	-8.15	1.41	1.52
1	A	367	ILE	CA-C	-8.14	1.41	1.52
1	A	399	ASP	N-CA	-8.12	1.35	1.46
3	S	42	ARG	C-N	-8.11	1.22	1.33
1	A	84	MET	N-CA	-8.11	1.35	1.46
2	B	320	SER	CA-C	-8.10	1.42	1.52
4	M	438	SER	N-CA	-8.10	1.36	1.46
1	A	304	LEU	CA-C	8.09	1.63	1.52
1	A	225	LEU	N-CA	-8.06	1.36	1.46
4	M	51	LEU	N-CA	8.06	1.56	1.46
2	B	425	PRO	CA-C	-8.06	1.43	1.52
1	A	600	SER	N-CA	-8.05	1.36	1.46
3	S	55	PRO	CA-C	-8.05	1.38	1.52
2	B	582	ASP	C-N	-8.03	1.22	1.33
1	A	424	TYR	CA-C	-8.02	1.41	1.52
4	M	406	GLY	N-CA	-8.02	1.33	1.45
1	A	306	GLU	C-N	-8.01	1.22	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	534	LYS	N-CA	-8.00	1.35	1.46
2	B	193	LEU	CA-C	-8.00	1.44	1.53
2	B	355	ASN	CA-C	-8.00	1.42	1.52
4	M	75	TRP	C-N	-8.00	1.22	1.33
1	A	179	LYS	CA-C	-8.00	1.42	1.52
4	M	385	ARG	CA-C	7.99	1.62	1.52
2	B	415	LEU	CA-C	-7.99	1.42	1.52
4	M	391	ILE	CA-C	-7.98	1.42	1.52
4	M	256	VAL	C-O	7.97	1.32	1.24
1	A	136	GLY	CA-C	-7.96	1.40	1.51
4	M	310	VAL	N-CA	-7.95	1.37	1.46
4	M	367	ALA	CA-CB	-7.94	1.41	1.53
2	B	256	CYS	C-N	-7.94	1.23	1.33
2	B	275	ARG	CA-C	-7.93	1.42	1.53
4	M	248	SER	CA-C	-7.91	1.42	1.52
3	S	54	PRO	N-CA	7.91	1.62	1.46
1	A	338	PHE	CA-C	-7.89	1.42	1.52
3	S	69	ASN	C-N	-7.89	1.22	1.33
2	B	346	THR	CA-C	-7.88	1.43	1.52
3	S	72	ASP	C-N	7.88	1.43	1.33
2	B	238	LYS	CA-C	7.87	1.63	1.52
1	A	548	GLN	CA-C	-7.87	1.42	1.52
2	B	263	PRO	CA-C	7.87	1.61	1.52
1	A	103	LYS	C-N	-7.86	1.22	1.33
4	M	372	ILE	CA-C	-7.85	1.46	1.52
3	S	28	GLN	CA-C	-7.83	1.42	1.52
3	S	54	PRO	CA-C	7.83	1.59	1.52
2	B	299	LEU	CA-C	-7.82	1.43	1.52
1	A	241	TYR	N-CA	-7.81	1.36	1.46
1	A	568	GLU	N-CA	-7.81	1.36	1.46
4	M	8	THR	CA-C	-7.80	1.43	1.52
2	B	410	GLU	CA-C	-7.79	1.42	1.52
4	M	110	SER	CA-C	-7.79	1.42	1.52
1	A	302	ASN	N-CA	-7.79	1.36	1.46
1	A	364	ASP	CA-C	-7.79	1.42	1.52
2	B	139	LEU	CA-C	-7.79	1.42	1.52
2	B	554	LYS	CA-C	-7.78	1.42	1.52
2	B	411	ILE	CA-C	-7.78	1.43	1.52
1	A	605	GLU	C-N	7.78	1.43	1.33
1	A	323	CYS	CA-C	7.78	1.63	1.52
1	A	496	ILE	CA-C	-7.77	1.43	1.52
4	M	419	ASN	C-N	-7.76	1.23	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	624	LEU	CA-C	-7.76	1.42	1.52
2	B	73	ASP	CA-C	-7.75	1.42	1.52
4	M	427	LYS	CA-C	7.75	1.61	1.52
4	M	90	PHE	CA-C	-7.75	1.42	1.52
4	M	439	TYR	C-N	-7.75	1.23	1.33
2	B	583	PHE	CA-C	-7.74	1.43	1.52
1	A	450	TYR	CA-C	-7.74	1.43	1.52
2	B	443	SER	N-CA	-7.72	1.36	1.46
2	B	264	THR	C-N	-7.72	1.24	1.33
4	M	451	ALA	CA-CB	7.70	1.66	1.53
1	A	242	GLU	C-O	-7.69	1.14	1.23
4	M	24	ALA	N-CA	-7.69	1.35	1.46
4	M	347	PHE	CA-C	7.68	1.62	1.52
3	S	156	LEU	CA-C	-7.68	1.42	1.52
1	A	304	LEU	N-CA	-7.67	1.36	1.46
3	S	129	GLU	CA-C	-7.67	1.43	1.52
4	M	72	LEU	C-N	-7.67	1.23	1.33
2	B	289	PRO	C-N	-7.66	1.22	1.33
4	M	279	ASN	CA-C	7.66	1.63	1.52
1	A	395	PHE	CA-C	-7.65	1.42	1.52
3	S	3	HIS	C-N	7.65	1.42	1.33
2	B	421	SER	N-CA	-7.64	1.36	1.46
3	S	24	ASP	CA-C	-7.64	1.42	1.52
1	A	434	SER	CA-C	-7.64	1.42	1.52
3	S	74	GLN	C-N	-7.64	1.23	1.33
1	A	301	GLY	CA-C	-7.64	1.42	1.51
2	B	325	LEU	C-N	-7.63	1.22	1.33
1	A	617	ASP	CA-C	-7.62	1.43	1.52
2	B	192	LEU	CA-C	-7.62	1.42	1.52
1	A	389	GLN	CA-C	-7.62	1.42	1.52
4	M	68	VAL	C-N	-7.61	1.22	1.33
2	B	286	ILE	CA-C	-7.60	1.41	1.52
1	A	392	MET	CA-C	-7.59	1.43	1.52
4	M	388	ASN	CA-C	7.58	1.62	1.52
3	S	66	ASP	C-N	-7.58	1.23	1.33
3	S	58	LEU	N-CA	-7.57	1.36	1.46
1	A	158	LEU	CA-C	-7.55	1.43	1.52
4	M	55	MET	CA-C	7.55	1.62	1.53
4	M	350	VAL	CA-C	-7.55	1.44	1.52
1	A	300	LYS	CA-C	-7.54	1.43	1.52
4	M	310	VAL	CA-C	7.53	1.62	1.52
2	B	207	VAL	CA-C	-7.53	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	260	PHE	C-N	-7.53	1.24	1.33
2	B	526	CYS	N-CA	-7.53	1.35	1.46
4	M	85	GLY	C-N	-7.53	1.25	1.34
2	B	464	SER	CA-CB	-7.52	1.41	1.53
3	S	47	GLN	CA-C	-7.52	1.42	1.52
2	B	372	THR	CA-C	-7.51	1.42	1.52
1	A	555	LEU	CA-C	-7.50	1.43	1.52
4	M	137	SER	C-N	-7.50	1.22	1.33
4	M	67	SER	CA-C	-7.48	1.43	1.52
2	B	490	ILE	CA-C	-7.48	1.43	1.52
3	S	159	ALA	CA-CB	7.46	1.65	1.53
1	A	529	GLY	N-CA	-7.45	1.35	1.45
1	A	468	SER	N-CA	-7.45	1.36	1.46
3	S	71	GLU	C-N	-7.44	1.23	1.33
2	B	75	ASP	C-N	-7.43	1.22	1.33
1	A	125	THR	CA-C	-7.43	1.43	1.52
4	M	83	SER	C-N	-7.43	1.23	1.33
4	M	424	PHE	C-N	-7.42	1.22	1.33
1	A	562	TRP	CA-C	-7.41	1.43	1.52
4	M	108	LYS	C-N	-7.41	1.23	1.33
4	M	441	GLY	CA-C	-7.41	1.41	1.51
2	B	563	PHE	CA-C	-7.40	1.46	1.52
4	M	253	ASN	N-CA	-7.40	1.35	1.46
2	B	155	LEU	CA-C	-7.39	1.42	1.52
2	B	66	ILE	CA-C	-7.39	1.42	1.52
1	A	104	ARG	CA-C	-7.39	1.43	1.52
4	M	115	VAL	N-CA	-7.39	1.37	1.46
1	A	472	LYS	CA-C	-7.38	1.42	1.52
1	A	166	LEU	CA-C	-7.37	1.43	1.52
2	B	345	ARG	CD-NE	-7.37	1.35	1.46
3	S	53	THR	CA-C	-7.37	1.45	1.52
3	S	84	TYR	N-CA	-7.37	1.36	1.46
4	M	123	LEU	CA-C	-7.36	1.42	1.52
1	A	270	LEU	C-N	7.36	1.43	1.33
1	A	611	LEU	CA-C	-7.35	1.43	1.52
3	S	100	ASP	CA-C	-7.35	1.42	1.52
2	B	209	SER	CA-C	-7.34	1.43	1.52
1	A	547	VAL	C-N	7.33	1.43	1.33
1	A	495	ILE	CA-C	-7.33	1.43	1.52
1	A	607	LEU	CA-C	-7.32	1.43	1.52
1	A	334	SER	CA-C	-7.32	1.43	1.52
2	B	466	SER	CA-CB	-7.32	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	407	ASN	N-CA	-7.32	1.36	1.45
4	M	278	ILE	N-CA	7.31	1.55	1.46
1	A	533	ILE	CA-C	-7.31	1.44	1.52
3	S	1	MET	C-N	-7.31	1.25	1.33
3	S	71	GLU	CA-C	7.31	1.60	1.53
1	A	243	ILE	C-N	7.30	1.43	1.34
1	A	632	PHE	N-CA	-7.30	1.36	1.46
1	A	221	VAL	C-N	-7.29	1.25	1.34
1	A	280	GLU	C-N	7.29	1.44	1.34
1	A	172	SER	CA-C	-7.29	1.43	1.52
1	A	440	ASN	CA-C	7.29	1.61	1.52
2	B	602	ASP	C-N	-7.28	1.24	1.33
1	A	463	ASP	C-O	-7.28	1.14	1.24
1	A	148	SER	CA-C	-7.28	1.43	1.52
1	A	353	ASP	N-CA	-7.27	1.37	1.46
2	B	83	PHE	N-CA	-7.26	1.36	1.46
1	A	628	VAL	CA-C	-7.26	1.43	1.52
2	B	503	LEU	CA-C	-7.26	1.43	1.52
2	B	220	ALA	N-CA	-7.26	1.37	1.46
2	B	584	SER	CA-C	-7.24	1.42	1.52
1	A	519	LEU	CA-C	7.24	1.62	1.52
4	M	276	VAL	C-N	7.24	1.43	1.33
4	M	128	CYS	C-O	7.23	1.33	1.24
2	B	416	LYS	CA-C	-7.22	1.42	1.52
1	A	188	VAL	CA-C	-7.22	1.44	1.52
4	M	291	ILE	CA-C	7.22	1.58	1.52
1	A	286	VAL	N-CA	-7.21	1.36	1.46
4	M	296	LYS	C-N	-7.21	1.23	1.33
1	A	505	ASN	C-N	-7.21	1.24	1.33
1	A	127	LEU	CA-C	-7.21	1.42	1.52
1	A	442	SER	N-CA	-7.21	1.37	1.46
1	A	303	MET	CA-C	-7.20	1.42	1.52
4	M	308	SER	C-O	-7.20	1.15	1.24
2	B	584	SER	C-N	-7.20	1.23	1.33
4	M	455	VAL	C-N	7.19	1.41	1.33
1	A	191	GLN	CA-C	7.19	1.58	1.52
3	S	90	ASP	CA-C	-7.18	1.42	1.53
1	A	384	LEU	CA-C	-7.17	1.44	1.52
2	B	317	VAL	CA-C	-7.16	1.41	1.52
2	B	333	GLN	N-CA	-7.16	1.37	1.46
2	B	439	CYS	CA-C	-7.16	1.44	1.53
1	A	159	ALA	CA-C	-7.16	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	407	SER	CA-C	-7.15	1.43	1.53
1	A	177	ILE	CA-C	-7.15	1.42	1.52
1	A	285	THR	CA-C	-7.15	1.44	1.52
1	A	379	VAL	N-CA	-7.14	1.37	1.46
3	S	148	ARG	CA-C	-7.14	1.43	1.52
4	M	309	GLN	CA-C	-7.14	1.43	1.52
1	A	446	ASP	N-CA	-7.14	1.37	1.46
4	M	44	ASP	C-N	7.14	1.51	1.33
4	M	54	SER	N-CA	7.13	1.54	1.46
1	A	436	CYS	CA-C	7.12	1.62	1.52
2	B	419	VAL	N-CA	-7.12	1.38	1.46
4	M	451	ALA	N-CA	-7.11	1.37	1.46
1	A	85	ALA	CA-C	7.11	1.62	1.52
1	A	601	VAL	C-N	-7.11	1.25	1.33
1	A	481	MET	CA-C	-7.11	1.42	1.52
3	S	87	PHE	CA-C	7.11	1.61	1.52
1	A	454	ILE	CA-C	-7.10	1.43	1.52
1	A	608	ARG	CA-C	-7.10	1.43	1.52
1	A	417	PRO	C-N	-7.10	1.24	1.33
1	A	532	LEU	C-N	7.10	1.42	1.33
2	B	271	GLU	CA-C	-7.09	1.43	1.52
2	B	537	PHE	CA-C	-7.08	1.43	1.52
1	A	450	TYR	C-N	7.08	1.43	1.33
1	A	604	LEU	CA-C	-7.08	1.43	1.52
1	A	86	TRP	CA-C	-7.07	1.43	1.52
3	S	16	LEU	C-N	-7.07	1.24	1.33
1	A	430	ASN	CA-C	-7.07	1.43	1.52
1	A	292	TYR	N-CA	-7.07	1.37	1.46
3	S	27	LYS	CA-C	-7.06	1.42	1.52
3	S	157	ASN	CA-C	-7.06	1.42	1.52
1	A	237	SER	CA-C	-7.05	1.43	1.52
4	M	14	LEU	C-N	-7.05	1.24	1.33
4	M	427	LYS	N-CA	-7.05	1.37	1.46
2	B	592	TYR	CA-C	-7.05	1.43	1.52
4	M	297	PHE	N-CA	-7.04	1.37	1.46
1	A	613	ALA	CA-C	-7.04	1.43	1.52
3	S	106	VAL	CA-C	-7.04	1.44	1.52
1	A	464	ILE	N-CA	7.04	1.55	1.46
3	S	55	PRO	N-CD	7.03	1.57	1.47
4	M	276	VAL	CA-C	7.03	1.60	1.52
4	M	302	TYR	CA-C	-7.03	1.44	1.52
3	S	117	ASN	N-CA	-7.02	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	574	ASN	N-CA	-7.01	1.36	1.45
2	B	447	GLU	N-CA	-7.01	1.37	1.46
3	S	118	GLU	N-CA	-7.01	1.36	1.46
2	B	258	GLN	CA-C	7.00	1.58	1.52
2	B	243	TRP	CA-C	-6.99	1.43	1.52
1	A	596	VAL	CA-C	-6.99	1.42	1.52
3	S	117	ASN	CA-C	-6.99	1.44	1.52
1	A	531	ASP	N-CA	-6.98	1.37	1.46
2	B	191	GLU	CA-C	-6.98	1.43	1.52
4	M	478	ASN	N-CA	-6.98	1.37	1.45
2	B	151	ALA	CA-C	-6.97	1.44	1.52
3	S	145	ASN	N-CA	-6.97	1.37	1.46
1	A	488	ARG	N-CA	-6.96	1.37	1.46
4	M	477	GLY	N-CA	-6.96	1.38	1.45
1	A	551	LEU	CA-C	-6.95	1.44	1.52
2	B	502	SER	CA-C	-6.95	1.43	1.52
3	S	45	ASP	CA-C	6.95	1.62	1.52
2	B	460	SER	C-N	-6.95	1.24	1.33
2	B	402	LEU	C-N	-6.95	1.25	1.33
1	A	243	ILE	N-CA	-6.94	1.33	1.46
2	B	291	TYR	N-CA	-6.94	1.37	1.46
4	M	44	ASP	N-CA	-6.93	1.37	1.46
2	B	107	ARG	CA-C	6.93	1.62	1.52
1	A	341	ILE	N-CA	-6.92	1.38	1.46
3	S	93	GLU	CA-C	-6.92	1.43	1.52
4	M	98	ARG	CA-C	-6.91	1.43	1.52
4	M	99	ILE	C-N	6.91	1.44	1.33
4	M	458	LEU	CA-C	-6.91	1.43	1.52
4	M	378	ILE	N-CA	-6.90	1.38	1.46
1	A	323	CYS	C-N	6.89	1.43	1.33
2	B	111	ASN	CA-C	6.89	1.59	1.52
2	B	158	VAL	CA-C	-6.89	1.44	1.52
1	A	448	GLU	C-N	-6.89	1.24	1.33
4	M	250	LEU	C-N	-6.88	1.23	1.33
1	A	586	GLU	N-CA	-6.88	1.38	1.46
1	A	265	GLN	CA-C	-6.87	1.44	1.52
1	A	451	ASN	CA-C	-6.87	1.43	1.52
1	A	288	THR	N-CA	6.86	1.59	1.46
2	B	439	CYS	N-CA	-6.86	1.38	1.46
2	B	262	LYS	CA-C	-6.86	1.44	1.52
3	S	95	GLU	CA-C	-6.86	1.43	1.52
1	A	433	ILE	C-N	6.85	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	S	113	PHE	N-CA	-6.85	1.37	1.46
2	B	109	ALA	CA-CB	-6.85	1.41	1.53
4	M	266	ASP	C-N	6.84	1.42	1.33
2	B	601	TYR	N-CA	-6.84	1.36	1.45
2	B	513	TRP	CA-C	-6.83	1.44	1.52
1	A	439	ASP	CA-C	-6.83	1.46	1.53
4	M	463	ASN	CA-C	-6.82	1.43	1.52
2	B	263	PRO	C-N	-6.82	1.24	1.33
4	M	368	ASP	CA-C	-6.81	1.44	1.52
1	A	254	ILE	CA-C	-6.81	1.44	1.52
4	M	446	GLY	CA-C	6.81	1.60	1.51
4	M	298	ARG	C-N	-6.80	1.24	1.33
4	M	418	GLU	N-CA	-6.80	1.37	1.46
2	B	46	GLN	CA-C	-6.79	1.43	1.52
1	A	85	ALA	CA-CB	-6.79	1.42	1.53
2	B	428	VAL	C-O	-6.78	1.17	1.24
2	B	84	ALA	CA-C	-6.78	1.43	1.52
4	M	5	PHE	N-CA	-6.78	1.37	1.46
1	A	399	ASP	C-O	-6.78	1.14	1.23
3	S	120	ASP	CA-C	-6.78	1.43	1.52
1	A	114	PHE	CA-C	-6.77	1.43	1.52
2	B	488	ARG	CA-C	-6.77	1.43	1.52
2	B	323	ASN	CA-C	-6.77	1.43	1.52
4	M	389	SER	CA-C	-6.77	1.44	1.53
1	A	275	LEU	N-CA	-6.75	1.39	1.46
1	A	517	TRP	CA-C	-6.75	1.44	1.52
3	S	102	ILE	CA-C	-6.75	1.44	1.52
1	A	298	ILE	CA-C	6.74	1.61	1.52
4	M	5	PHE	C-N	-6.74	1.24	1.33
1	A	202	LYS	CA-C	-6.74	1.43	1.52
1	A	264	SER	CA-C	-6.74	1.43	1.52
2	B	331	PRO	N-CA	-6.72	1.38	1.47
2	B	292	GLU	CA-C	-6.72	1.43	1.52
4	M	20	LEU	N-CA	-6.72	1.37	1.46
1	A	236	LEU	CA-C	-6.71	1.43	1.52
2	B	544	THR	CA-C	-6.70	1.44	1.52
3	S	118	GLU	C-N	6.70	1.43	1.33
3	S	72	ASP	CA-C	6.69	1.61	1.52
1	A	390	THR	N-CA	-6.69	1.38	1.46
4	M	23	THR	C-N	-6.69	1.19	1.33
1	A	445	ASN	N-CA	-6.68	1.37	1.46
2	B	273	SER	N-CA	-6.68	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	374	PHE	N-CA	-6.68	1.37	1.46
4	M	89	CYS	C-N	6.68	1.43	1.33
1	A	278	ILE	N-CA	-6.67	1.33	1.46
1	A	598	GLU	CA-C	-6.67	1.44	1.52
4	M	374	TYR	N-CA	-6.67	1.37	1.45
3	S	17	VAL	CA-C	-6.67	1.44	1.52
2	B	437	SER	CA-C	-6.66	1.44	1.52
2	B	559	ASP	N-CA	-6.66	1.37	1.46
1	A	506	LYS	N-CA	-6.66	1.37	1.46
1	A	465	SER	C-N	-6.65	1.25	1.33
2	B	495	ASP	CA-C	-6.64	1.43	1.52
3	S	114	THR	N-CA	-6.64	1.37	1.46
4	M	129	VAL	N-CA	-6.63	1.38	1.46
2	B	596	LEU	CA-C	-6.63	1.44	1.52
3	S	142	ILE	CA-C	-6.63	1.42	1.52
2	B	306	LEU	N-CA	-6.62	1.38	1.46
1	A	375	VAL	C-O	6.62	1.31	1.24
2	B	119	SER	CA-C	-6.62	1.43	1.52
4	M	303	SER	N-CA	-6.62	1.38	1.46
1	A	621	LEU	C-N	-6.61	1.25	1.34
2	B	373	LEU	CA-C	-6.61	1.46	1.52
4	M	363	ASN	N-CA	-6.61	1.37	1.46
2	B	250	GLU	N-CA	-6.61	1.38	1.46
4	M	476	THR	C-N	-6.61	1.24	1.32
2	B	489	ILE	CA-C	-6.60	1.44	1.52
3	S	93	GLU	C-N	-6.60	1.24	1.33
2	B	257	LYS	N-CA	-6.60	1.37	1.46
4	M	50	TYR	CA-C	6.60	1.61	1.52
4	M	40	GLN	C-N	6.59	1.43	1.34
3	S	164	ASP	N-CA	6.59	1.54	1.46
1	A	541	SER	C-N	-6.58	1.24	1.33
2	B	38	TYR	N-CA	-6.58	1.38	1.46
4	M	396	GLN	C-N	-6.56	1.24	1.33
3	S	17	VAL	C-N	-6.56	1.24	1.33
1	A	533	ILE	C-N	6.55	1.42	1.33
4	M	456	SER	N-CA	-6.55	1.37	1.46
2	B	449	HIS	CA-C	-6.55	1.43	1.52
2	B	563	PHE	C-N	6.54	1.42	1.33
4	M	94	GLU	CA-C	-6.54	1.44	1.52
2	B	382	TYR	C-N	-6.54	1.25	1.33
1	A	77	LEU	CA-C	6.54	1.61	1.52
4	M	276	VAL	CA-CB	-6.54	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	91	ILE	CA-C	-6.53	1.43	1.52
4	M	212	ASN	N-CA	-6.53	1.33	1.46
1	A	484	VAL	CA-C	-6.52	1.46	1.52
1	A	575	LYS	CA-C	-6.52	1.44	1.52
2	B	355	ASN	N-CA	-6.52	1.38	1.46
2	B	530	LEU	CA-C	-6.51	1.43	1.52
1	A	359	LEU	CA-C	-6.51	1.43	1.52
2	B	184	GLY	N-CA	6.51	1.54	1.45
1	A	309	PHE	N-CA	-6.51	1.38	1.46
2	B	384	PHE	N-CA	-6.51	1.36	1.46
4	M	418	GLU	CA-C	6.51	1.61	1.52
2	B	584	SER	N-CA	-6.50	1.37	1.46
1	A	458	ALA	CA-C	-6.50	1.44	1.52
1	A	410	TYR	CA-C	-6.50	1.44	1.52
2	B	259	TYR	C-N	-6.50	1.20	1.33
1	A	609	LEU	CA-C	-6.49	1.44	1.52
1	A	547	VAL	N-CA	-6.49	1.38	1.46
4	M	378	ILE	CA-C	6.49	1.60	1.52
2	B	512	VAL	C-N	6.48	1.42	1.33
3	S	127	THR	CA-C	-6.48	1.44	1.52
2	B	561	ASP	CG-OD1	-6.48	1.13	1.25
2	B	408	VAL	N-CA	-6.47	1.38	1.46
4	M	441	GLY	N-CA	-6.47	1.35	1.44
4	M	252	ASP	C-N	-6.46	1.20	1.33
2	B	475	ILE	CA-C	-6.46	1.44	1.52
4	M	247	ARG	CA-C	-6.46	1.44	1.52
4	M	345	GLU	N-CA	-6.46	1.38	1.46
3	S	137	GLN	N-CA	-6.45	1.37	1.46
4	M	417	TYR	CA-C	-6.44	1.44	1.53
2	B	298	ASP	N-CA	-6.44	1.38	1.46
3	S	57	LEU	C-O	-6.44	1.15	1.24
1	A	452	ALA	N-CA	-6.42	1.38	1.46
1	A	74	LEU	C-N	6.42	1.42	1.33
2	B	99	ARG	CA-C	-6.42	1.44	1.52
4	M	107	ASP	C-N	6.41	1.44	1.33
3	S	43	ASN	N-CA	-6.41	1.38	1.46
2	B	531	ARG	N-CA	-6.40	1.38	1.46
4	M	313	SER	CA-C	6.40	1.61	1.52
2	B	426	GLU	N-CA	-6.40	1.38	1.46
4	M	114	ILE	CA-C	-6.39	1.45	1.52
3	S	25	LEU	C-N	-6.39	1.26	1.33
2	B	108	PHE	C-N	-6.38	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	408	VAL	N-CA	-6.38	1.38	1.46
3	S	159	ALA	CA-C	-6.38	1.44	1.52
4	M	108	LYS	N-CA	-6.38	1.38	1.47
2	B	587	ARG	CA-C	-6.38	1.44	1.52
4	M	16	PHE	C-N	-6.38	1.24	1.33
4	M	52	ASP	N-CA	6.38	1.54	1.46
2	B	424	PHE	N-CA	-6.38	1.36	1.46
3	S	109	LEU	C-O	-6.37	1.16	1.24
4	M	424	PHE	N-CA	-6.37	1.37	1.46
1	A	331	ARG	CA-C	-6.37	1.44	1.52
4	M	457	GLY	CA-C	-6.37	1.42	1.51
2	B	454	LEU	CA-C	-6.36	1.45	1.52
4	M	289	THR	N-CA	-6.36	1.38	1.46
2	B	214	ALA	CA-C	-6.35	1.46	1.53
2	B	135	ARG	CA-C	-6.35	1.44	1.52
2	B	166	SER	CA-C	-6.35	1.44	1.52
2	B	536	ASN	N-CA	-6.35	1.39	1.46
1	A	421	PRO	CA-C	-6.34	1.45	1.52
2	B	189	HIS	N-CA	-6.34	1.38	1.46
4	M	128	CYS	C-N	6.34	1.42	1.33
4	M	51	LEU	CA-C	6.34	1.61	1.52
4	M	128	CYS	N-CA	-6.34	1.38	1.46
2	B	111	ASN	N-CA	6.33	1.53	1.46
4	M	99	ILE	CA-CB	-6.33	1.46	1.54
2	B	76	SER	N-CA	-6.32	1.37	1.46
2	B	589	SER	CA-C	-6.32	1.44	1.52
2	B	350	THR	N-CA	-6.32	1.38	1.46
4	M	46	SER	N-CA	-6.32	1.37	1.46
3	S	36	TYR	C-N	6.31	1.42	1.33
1	A	226	SER	CA-C	-6.31	1.44	1.52
1	A	610	SER	CA-C	-6.31	1.43	1.52
3	S	7	ILE	CA-C	-6.30	1.44	1.52
1	A	382	ASP	N-CA	-6.30	1.38	1.46
2	B	583	PHE	C-N	-6.30	1.24	1.33
4	M	451	ALA	C-N	6.30	1.41	1.33
3	S	46	PHE	N-CA	-6.29	1.38	1.46
1	A	204	VAL	N-CA	-6.29	1.39	1.46
2	B	77	ILE	N-CA	-6.29	1.38	1.46
2	B	172	GLU	C-N	-6.28	1.26	1.34
4	M	289	THR	C-N	6.28	1.43	1.33
2	B	429	VAL	N-CA	-6.28	1.38	1.46
1	A	332	TYR	C-N	6.28	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	468	LYS	CA-C	-6.27	1.45	1.52
2	B	486	HIS	N-CA	-6.27	1.39	1.46
4	M	447	ILE	N-CA	6.27	1.54	1.46
1	A	575	LYS	N-CA	-6.26	1.39	1.46
2	B	435	SER	CA-C	-6.26	1.44	1.52
2	B	594	ALA	CA-C	-6.26	1.44	1.52
1	A	180	LYS	N-CA	-6.26	1.38	1.46
2	B	278	PRO	CA-C	-6.26	1.46	1.53
4	M	362	PHE	CA-C	-6.26	1.44	1.52
1	A	494	ASN	CA-C	-6.25	1.44	1.52
2	B	128	SER	CA-C	6.25	1.61	1.52
1	A	606	PHE	CA-C	-6.25	1.44	1.52
1	A	618	THR	N-CA	-6.25	1.38	1.46
2	B	294	VAL	N-CA	-6.25	1.38	1.46
2	B	302	PHE	C-N	-6.24	1.26	1.33
2	B	341	GLU	CA-C	-6.24	1.44	1.52
2	B	325	LEU	N-CA	-6.24	1.37	1.46
3	S	73	ILE	N-CA	6.24	1.54	1.46
1	A	77	LEU	C-O	6.24	1.31	1.24
4	M	74	TYR	C-N	-6.23	1.25	1.33
4	M	277	GLU	C-O	6.23	1.31	1.24
3	S	154	ASP	CA-C	-6.22	1.44	1.52
1	A	252	ILE	CA-C	-6.22	1.44	1.52
1	A	295	VAL	N-CA	-6.22	1.39	1.46
1	A	256	LEU	CA-C	-6.21	1.44	1.52
3	S	61	ASN	CA-C	-6.21	1.44	1.52
3	S	77	TYR	N-CA	-6.21	1.38	1.46
1	A	556	VAL	CA-C	-6.21	1.44	1.52
3	S	139	GLY	CA-C	-6.21	1.42	1.51
1	A	230	PRO	N-CD	-6.20	1.39	1.47
2	B	92	THR	CA-C	-6.19	1.44	1.52
2	B	215	TYR	CA-C	-6.19	1.44	1.52
1	A	416	ILE	C-N	6.18	1.41	1.33
2	B	272	GLY	CA-C	-6.18	1.43	1.51
3	S	63	ASN	C-O	-6.18	1.17	1.24
4	M	25	PRO	CA-C	-6.18	1.40	1.52
1	A	180	LYS	CA-C	-6.17	1.44	1.52
3	S	101	LEU	CA-C	-6.17	1.44	1.52
1	A	511	VAL	CA-C	-6.17	1.44	1.52
2	B	295	ASN	CA-C	6.16	1.61	1.52
4	M	274	ASP	N-CA	-6.15	1.38	1.46
2	B	461	HIS	CA-C	-6.15	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	S	88	ILE	CA-C	-6.15	1.44	1.52
2	B	505	ASP	N-CA	-6.15	1.39	1.46
3	S	109	LEU	C-N	-6.15	1.25	1.33
2	B	185	LYS	C-N	-6.14	1.25	1.33
1	A	452	ALA	CA-C	-6.14	1.44	1.52
2	B	531	ARG	CA-C	-6.14	1.44	1.52
1	A	383	ASN	CA-C	-6.13	1.44	1.52
1	A	475	GLU	CA-C	-6.13	1.44	1.52
1	A	295	VAL	CA-C	-6.13	1.45	1.52
4	M	126	ASN	N-CA	-6.13	1.39	1.46
4	M	23	THR	CA-C	-6.13	1.45	1.52
2	B	319	LEU	N-CA	-6.12	1.38	1.46
3	S	150	VAL	CA-C	-6.12	1.44	1.52
3	S	31	LEU	CA-C	-6.12	1.44	1.52
3	S	151	ALA	CA-C	-6.12	1.44	1.52
2	B	444	THR	N-CA	-6.11	1.38	1.46
1	A	390	THR	CA-C	-6.10	1.44	1.52
2	B	543	GLU	CA-C	-6.10	1.45	1.52
4	M	230	LYS	C-N	6.10	1.42	1.33
2	B	585	GLY	N-CA	-6.10	1.36	1.45
1	A	508	LEU	CA-CB	-6.09	1.46	1.53
2	B	253	ILE	CA-C	-6.09	1.44	1.52
3	S	61	ASN	N-CA	-6.09	1.38	1.46
1	A	139	ASP	CA-C	-6.08	1.44	1.52
1	A	539	ASN	C-N	-6.08	1.26	1.33
1	A	461	CYS	C-N	-6.08	1.25	1.33
3	S	57	LEU	C-N	-6.07	1.25	1.33
3	S	33	GLU	CA-C	-6.07	1.45	1.52
3	S	124	ASN	C-N	-6.07	1.26	1.33
1	A	156	PRO	C-N	-6.06	1.25	1.33
2	B	74	ASP	CA-C	-6.06	1.46	1.53
4	M	371	GLU	N-CA	-6.06	1.39	1.46
2	B	493	LEU	CA-C	-6.05	1.44	1.52
3	S	38	LEU	N-CA	-6.05	1.38	1.46
2	B	523	PHE	N-CA	-6.05	1.38	1.46
2	B	285	GLU	C-N	-6.05	1.26	1.33
3	S	5	VAL	C-N	-6.05	1.25	1.33
2	B	145	MET	N-CA	-6.04	1.38	1.45
3	S	165	SER	C-N	6.04	1.42	1.33
2	B	605	PHE	CA-C	-6.04	1.44	1.52
4	M	362	PHE	C-N	-6.04	1.25	1.33
2	B	188	TYR	CA-C	-6.03	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	333	GLN	C-O	-6.03	1.17	1.24
1	A	523	SER	N-CA	-6.03	1.38	1.46
2	B	218	CYS	C-O	-6.02	1.17	1.24
1	A	409	VAL	CA-C	-6.02	1.45	1.52
2	B	109	ALA	CA-C	-6.02	1.44	1.52
2	B	312	SER	C-N	-6.02	1.25	1.33
4	M	90	PHE	C-N	6.01	1.42	1.33
2	B	138	ALA	CA-C	-6.00	1.45	1.52
4	M	387	GLU	N-CA	-6.00	1.38	1.45
1	A	434	SER	C-N	5.99	1.41	1.33
2	B	96	LYS	CA-C	-5.99	1.45	1.52
4	M	237	THR	C-N	-5.97	1.24	1.33
1	A	151	SER	N-CA	-5.97	1.38	1.46
4	M	481	VAL	CA-C	-5.97	1.45	1.52
1	A	607	LEU	N-CA	-5.97	1.39	1.46
1	A	602	GLU	N-CA	-5.96	1.39	1.46
4	M	79	SER	N-CA	-5.96	1.38	1.46
1	A	394	GLN	C-O	-5.96	1.16	1.24
3	S	149	ILE	CA-C	-5.96	1.45	1.52
1	A	107	TYR	CA-CB	-5.96	1.44	1.53
2	B	134	LEU	CA-C	-5.95	1.45	1.52
4	M	383	HIS	N-CA	5.95	1.53	1.46
2	B	83	PHE	CA-C	-5.94	1.45	1.53
4	M	482	ARG	N-CA	-5.94	1.39	1.46
4	M	51	LEU	C-N	-5.94	1.25	1.33
3	S	143	GLU	N-CA	-5.94	1.39	1.46
2	B	267	ASP	C-N	-5.94	1.25	1.33
2	B	299	LEU	C-N	5.93	1.41	1.33
2	B	231	ARG	CD-NE	-5.93	1.38	1.46
1	A	320	HIS	N-CA	-5.93	1.39	1.46
2	B	595	VAL	CA-C	-5.93	1.45	1.52
4	M	5	PHE	CA-C	-5.92	1.45	1.52
1	A	239	LEU	CA-C	-5.92	1.45	1.52
2	B	378	THR	N-CA	-5.92	1.38	1.46
2	B	412	PHE	CA-C	-5.92	1.45	1.52
2	B	569	THR	CA-C	-5.92	1.44	1.52
1	A	518	CYS	N-CA	-5.91	1.39	1.46
2	B	263	PRO	N-CA	-5.91	1.40	1.47
4	M	94	GLU	C-N	5.89	1.41	1.34
4	M	13	LYS	N-CA	-5.89	1.38	1.46
2	B	213	LEU	N-CA	-5.89	1.38	1.46
2	B	548	ILE	CA-C	-5.88	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	445	SER	C-N	5.87	1.41	1.33
2	B	210	CYS	C-N	-5.87	1.26	1.33
3	S	16	LEU	C-O	-5.87	1.17	1.23
1	A	602	GLU	CA-C	-5.86	1.45	1.52
4	M	252	ASP	CA-C	-5.86	1.45	1.52
2	B	279	LEU	N-CA	-5.86	1.38	1.45
2	B	302	PHE	CA-C	-5.86	1.45	1.52
2	B	491	PHE	CA-C	-5.86	1.45	1.52
3	S	91	ASP	CA-C	-5.86	1.44	1.52
4	M	405	THR	N-CA	-5.85	1.38	1.46
2	B	432	ALA	CA-C	-5.85	1.45	1.52
2	B	469	ASP	CA-C	-5.85	1.45	1.52
3	S	141	VAL	C-N	-5.85	1.26	1.33
4	M	444	ALA	CA-CB	5.85	1.62	1.53
1	A	502	ASP	CA-C	-5.85	1.44	1.52
1	A	330	LEU	CA-C	-5.84	1.44	1.52
2	B	409	LYS	CA-C	-5.84	1.44	1.52
2	B	63	MET	N-CA	-5.84	1.39	1.46
3	S	103	GLN	C-N	5.84	1.42	1.33
4	M	357	LYS	C-N	5.84	1.39	1.33
1	A	490	VAL	CA-C	-5.84	1.45	1.52
4	M	382	THR	C-N	5.83	1.41	1.33
1	A	72	LEU	N-CA	-5.83	1.39	1.46
4	M	308	SER	CA-C	-5.83	1.45	1.52
2	B	598	LEU	N-CA	-5.83	1.38	1.46
3	S	124	ASN	CA-C	-5.83	1.45	1.53
2	B	167	ALA	CA-C	-5.82	1.45	1.52
2	B	607	ILE	CA-C	-5.82	1.45	1.52
4	M	317	MET	CA-C	-5.82	1.45	1.52
1	A	543	TYR	C-O	-5.81	1.16	1.23
2	B	138	ALA	N-CA	-5.81	1.39	1.46
3	S	58	LEU	C-N	5.80	1.41	1.33
4	M	319	SER	CA-C	-5.80	1.45	1.52
2	B	323	ASN	N-CA	-5.80	1.39	1.46
1	A	535	ILE	N-CA	-5.79	1.35	1.46
4	M	75	TRP	C-O	-5.79	1.16	1.23
1	A	87	CYS	CA-C	-5.79	1.45	1.52
3	S	5	VAL	N-CA	-5.78	1.39	1.46
2	B	100	LEU	N-CA	-5.78	1.39	1.46
3	S	140	MET	C-N	-5.78	1.25	1.33
3	S	44	SER	N-CA	5.77	1.53	1.46
1	A	600	SER	CA-C	-5.77	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	S	40	SER	N-CA	-5.77	1.38	1.46
1	A	147	LEU	N-CA	-5.76	1.39	1.46
2	B	97	VAL	CA-C	-5.76	1.45	1.52
1	A	495	ILE	N-CA	-5.76	1.39	1.46
1	A	588	LEU	C-O	-5.75	1.16	1.24
3	S	100	ASP	C-O	5.75	1.31	1.24
1	A	619	GLU	CA-C	-5.75	1.45	1.52
2	B	336	ASN	N-CA	-5.75	1.38	1.46
2	B	597	TYR	CA-C	-5.75	1.44	1.52
4	M	48	ASP	CA-C	-5.74	1.45	1.52
1	A	583	GLU	CA-C	-5.74	1.45	1.52
4	M	127	CYS	CA-C	-5.74	1.44	1.52
1	A	201	ASP	CA-C	-5.73	1.45	1.52
3	S	33	GLU	N-CA	-5.73	1.39	1.46
2	B	123	LEU	CA-C	-5.73	1.45	1.52
4	M	358	ILE	CA-C	-5.73	1.48	1.53
1	A	513	ARG	CA-C	-5.72	1.45	1.52
1	A	492	ILE	CA-C	-5.72	1.45	1.52
1	A	469	LEU	CA-C	-5.71	1.45	1.52
1	A	115	TYR	N-CA	-5.71	1.38	1.46
1	A	403	LEU	N-CA	-5.71	1.39	1.46
3	S	166	LYS	C-O	-5.70	1.16	1.24
4	M	122	SER	C-N	5.70	1.41	1.34
1	A	227	LYS	N-CA	-5.70	1.39	1.46
2	B	306	LEU	C-N	5.69	1.40	1.33
2	B	343	LEU	C-N	5.69	1.40	1.33
2	B	459	GLU	CA-C	5.68	1.60	1.52
1	A	134	TYR	CA-C	-5.68	1.45	1.52
3	S	108	SER	C-N	5.68	1.41	1.33
4	M	273	HIS	C-N	-5.67	1.26	1.33
2	B	189	HIS	CA-C	-5.67	1.45	1.52
4	M	47	SER	N-CA	5.66	1.53	1.46
4	M	477	GLY	CA-C	-5.66	1.45	1.51
1	A	110	ALA	CA-CB	5.66	1.62	1.53
1	A	518	CYS	CA-C	-5.66	1.45	1.52
4	M	92	PHE	CA-C	-5.65	1.44	1.52
1	A	384	LEU	N-CA	-5.65	1.39	1.46
1	A	181	ALA	CA-C	-5.64	1.45	1.52
1	A	150	LEU	CA-C	-5.64	1.45	1.52
4	M	415	ILE	C-N	-5.64	1.25	1.33
3	S	98	ILE	C-O	5.63	1.30	1.24
2	B	436	LEU	CA-C	-5.63	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	611	ALA	C-N	5.63	1.41	1.33
4	M	22	ALA	C-N	5.63	1.41	1.33
1	A	173	THR	CA-C	5.63	1.60	1.53
2	B	67	ILE	CA-C	-5.63	1.44	1.52
1	A	325	SER	C-O	5.62	1.30	1.23
4	M	464	THR	CA-C	5.62	1.59	1.52
4	M	471	LYS	CA-C	-5.62	1.47	1.53
1	A	478	ARG	C-N	5.62	1.41	1.33
1	A	282	MET	N-CA	-5.62	1.39	1.46
1	A	491	THR	CA-C	-5.62	1.45	1.52
1	A	375	VAL	CA-C	5.61	1.59	1.52
2	B	444	THR	C-N	-5.61	1.26	1.34
1	A	426	ILE	CA-C	-5.61	1.46	1.52
1	A	336	ILE	CA-C	-5.61	1.46	1.52
1	A	492	ILE	C-N	5.61	1.41	1.33
4	M	380	ARG	C-N	-5.61	1.25	1.33
1	A	287	ALA	C-N	5.61	1.41	1.33
1	A	462	GLN	N-CA	-5.60	1.39	1.46
1	A	492	ILE	CA-CB	-5.60	1.47	1.54
2	B	478	LEU	C-N	-5.60	1.27	1.34
3	S	35	VAL	C-N	-5.60	1.26	1.33
1	A	74	LEU	CA-C	-5.59	1.45	1.52
4	M	228	LYS	CA-C	-5.59	1.45	1.52
2	B	535	GLN	N-CA	-5.59	1.39	1.46
1	A	559	PHE	CA-C	-5.59	1.45	1.52
2	B	496	LEU	N-CA	-5.59	1.39	1.46
2	B	461	HIS	N-CA	-5.58	1.39	1.46
1	A	225	LEU	C-N	5.58	1.41	1.34
1	A	624	LEU	N-CA	-5.58	1.39	1.46
2	B	46	GLN	C-N	5.58	1.41	1.33
2	B	251	LEU	CA-C	-5.58	1.46	1.52
3	S	163	THR	C-N	5.58	1.41	1.33
2	B	170	ARG	CA-C	5.58	1.60	1.52
4	M	465	LYS	N-CA	5.57	1.52	1.45
2	B	329	ALA	C-N	-5.57	1.25	1.33
2	B	116	THR	CA-C	-5.57	1.46	1.52
4	M	125	PHE	C-N	5.57	1.41	1.33
4	M	67	SER	N-CA	-5.55	1.39	1.46
1	A	150	LEU	N-CA	-5.55	1.39	1.46
2	B	447	GLU	CA-C	-5.54	1.45	1.52
2	B	553	ALA	CA-C	-5.54	1.45	1.52
1	A	155	THR	C-N	5.54	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	S	35	VAL	CA-C	-5.54	1.44	1.52
1	A	528	ASN	C-N	-5.54	1.26	1.33
2	B	158	VAL	N-CA	-5.54	1.40	1.46
2	B	324	ALA	N-CA	-5.53	1.39	1.46
2	B	225	LEU	C-O	5.53	1.30	1.24
2	B	258	GLN	CA-CB	-5.53	1.44	1.53
4	M	439	TYR	N-CA	-5.53	1.39	1.45
1	A	122	MET	CA-C	-5.51	1.45	1.52
4	M	463	ASN	C-N	-5.51	1.25	1.33
1	A	506	LYS	C-N	-5.51	1.25	1.33
1	A	476	GLN	CA-C	-5.51	1.45	1.52
1	A	186	PHE	CA-C	-5.50	1.45	1.52
4	M	254	PRO	N-CA	-5.50	1.40	1.47
2	B	192	LEU	N-CA	-5.50	1.39	1.46
2	B	467	VAL	CA-C	-5.50	1.45	1.52
1	A	309	PHE	CA-C	-5.50	1.45	1.52
3	S	134	GLU	CA-C	-5.50	1.45	1.52
2	B	240	LEU	C-N	5.50	1.41	1.33
4	M	306	LEU	CA-C	5.49	1.60	1.52
4	M	382	THR	CA-C	5.49	1.60	1.52
1	A	306	GLU	N-CA	5.48	1.53	1.46
4	M	271	SER	C-N	5.48	1.41	1.33
2	B	570	GLY	CA-C	-5.48	1.44	1.51
1	A	397	ASP	CA-C	5.48	1.59	1.52
4	M	473	LYS	C-N	-5.48	1.25	1.33
2	B	450	VAL	N-CA	-5.47	1.40	1.46
2	B	497	LEU	N-CA	-5.47	1.39	1.46
1	A	216	SER	C-O	5.47	1.30	1.24
4	M	86	PRO	C-N	5.47	1.41	1.33
2	B	74	ASP	C-N	-5.47	1.26	1.33
2	B	458	MET	N-CA	-5.47	1.39	1.46
3	S	109	LEU	CA-C	5.46	1.59	1.52
1	A	229	ASN	CA-C	-5.46	1.46	1.53
3	S	101	LEU	C-O	5.46	1.31	1.24
1	A	612	GLU	N-CA	-5.46	1.39	1.46
3	S	13	GLN	N-CA	-5.46	1.37	1.46
2	B	359	LEU	CA-C	-5.45	1.45	1.52
1	A	380	ASP	CA-C	-5.45	1.46	1.52
4	M	125	PHE	N-CA	-5.45	1.39	1.46
2	B	305	SER	CA-C	-5.45	1.46	1.52
4	M	214	LEU	C-N	-5.44	1.25	1.33
2	B	404	ASN	C-N	-5.44	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	S	50	PHE	N-CA	5.44	1.52	1.46
1	A	315	CYS	N-CA	-5.44	1.39	1.46
4	M	238	GLY	CA-C	-5.43	1.44	1.51
3	S	65	ASN	C-N	-5.42	1.25	1.33
4	M	213	GLU	CA-C	-5.42	1.45	1.52
2	B	106	LEU	C-N	5.42	1.41	1.33
3	S	132	LEU	N-CA	-5.42	1.39	1.46
1	A	477	PHE	CA-C	-5.42	1.45	1.52
2	B	252	LEU	CA-C	-5.42	1.45	1.52
1	A	501	ASN	CA-C	-5.42	1.46	1.52
1	A	552	ILE	N-CA	-5.41	1.40	1.46
3	S	50	PHE	C-N	-5.41	1.25	1.33
1	A	176	TYR	CA-C	-5.41	1.45	1.52
1	A	279	LEU	N-CA	5.41	1.53	1.46
2	B	476	ARG	C-N	5.41	1.41	1.33
4	M	25	PRO	N-CA	-5.41	1.39	1.47
4	M	266	ASP	CG-OD2	-5.41	1.15	1.25
2	B	580	TYR	C-N	5.41	1.41	1.33
2	B	335	LYS	N-CA	-5.40	1.39	1.46
1	A	311	THR	CA-C	-5.40	1.45	1.52
1	A	568	GLU	CA-C	5.39	1.59	1.52
4	M	120	ARG	N-CA	-5.39	1.39	1.46
4	M	40	GLN	N-CA	-5.39	1.39	1.46
2	B	47	LEU	CA-C	-5.39	1.46	1.52
3	S	128	LEU	CA-C	-5.38	1.45	1.52
2	B	55	ASN	CA-C	-5.38	1.45	1.52
2	B	82	TYR	CA-C	-5.38	1.44	1.52
4	M	269	ILE	N-CA	-5.38	1.40	1.46
2	B	532	ARG	CA-C	-5.38	1.45	1.52
4	M	405	THR	C-N	-5.38	1.25	1.33
1	A	471	SER	CA-C	-5.37	1.45	1.52
2	B	615	SER	C-N	5.37	1.40	1.33
1	A	447	PHE	N-CA	-5.37	1.40	1.46
1	A	290	VAL	N-CA	-5.36	1.39	1.46
4	M	322	LEU	CA-C	-5.36	1.46	1.53
4	M	120	ARG	C-N	5.36	1.40	1.33
4	M	318	ASN	N-CA	-5.36	1.39	1.46
4	M	126	ASN	C-N	5.35	1.41	1.33
3	S	125	TRP	N-CA	-5.35	1.40	1.46
3	S	129	GLU	C-N	5.35	1.41	1.33
4	M	81	SER	C-O	-5.35	1.17	1.24
2	B	522	GLU	C-N	-5.34	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	520	SER	CA-C	-5.34	1.45	1.52
2	B	297	PRO	N-CA	-5.33	1.40	1.47
4	M	17	GLN	CA-C	-5.33	1.46	1.52
4	M	336	ASP	CA-C	5.33	1.59	1.52
1	A	130	LYS	N-CA	-5.33	1.39	1.46
2	B	102	HIS	C-N	-5.33	1.26	1.33
2	B	493	LEU	N-CA	-5.33	1.39	1.46
3	S	158	LYS	C-N	5.32	1.41	1.33
2	B	261	PRO	N-CA	-5.32	1.40	1.47
2	B	504	ALA	CA-C	-5.32	1.45	1.52
2	B	239	GLN	N-CA	5.32	1.53	1.46
1	A	311	THR	C-N	5.32	1.41	1.33
2	B	306	LEU	CA-C	-5.32	1.45	1.52
4	M	57	GLY	C-N	-5.32	1.27	1.33
1	A	418	ILE	N-CA	-5.31	1.40	1.46
2	B	403	ILE	C-N	5.31	1.39	1.33
1	A	507	GLN	CA-C	-5.31	1.45	1.52
2	B	414	GLU	CA-C	-5.31	1.46	1.52
2	B	357	GLU	CA-C	-5.30	1.46	1.52
2	B	330	SER	C-N	-5.30	1.21	1.33
1	A	312	ALA	CA-C	-5.29	1.45	1.52
4	M	43	GLU	CA-C	-5.29	1.46	1.52
1	A	628	VAL	N-CA	-5.29	1.39	1.46
1	A	152	THR	N-CA	-5.29	1.38	1.46
1	A	500	SER	C-N	-5.29	1.25	1.33
4	M	320	ILE	C-N	-5.29	1.25	1.33
4	M	333	LYS	CA-C	5.28	1.60	1.52
2	B	62	ALA	CA-C	-5.28	1.46	1.52
1	A	128	LEU	CA-C	-5.28	1.45	1.52
3	S	118	GLU	CA-C	-5.28	1.45	1.52
1	A	174	ARG	N-CA	5.28	1.53	1.46
2	B	353	GLN	N-CA	-5.28	1.39	1.46
2	B	211	ALA	C-O	5.27	1.30	1.24
2	B	474	VAL	CA-C	-5.27	1.46	1.52
1	A	522	PHE	N-CA	-5.27	1.39	1.46
4	M	386	PHE	C-N	-5.27	1.26	1.33
1	A	117	ASP	CA-C	-5.27	1.46	1.52
2	B	157	THR	CA-C	-5.27	1.46	1.52
1	A	274	LEU	N-CA	-5.26	1.39	1.46
1	A	474	GLY	C-N	5.26	1.41	1.34
4	M	249	TYR	N-CA	-5.26	1.38	1.46
2	B	195	ILE	CA-C	-5.26	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	549	LEU	CA-C	-5.25	1.46	1.52
2	B	561	ASP	CA-CB	-5.25	1.44	1.53
1	A	311	THR	N-CA	-5.25	1.40	1.46
2	B	493	LEU	C-N	5.25	1.41	1.34
2	B	585	GLY	CA-C	-5.25	1.44	1.51
2	B	230	PHE	C-N	-5.25	1.26	1.33
2	B	463	LEU	CA-C	5.25	1.59	1.52
2	B	129	ASP	C-N	-5.24	1.26	1.33
4	M	256	VAL	C-N	5.24	1.40	1.33
2	B	154	ILE	N-CA	-5.24	1.40	1.46
2	B	415	LEU	N-CA	-5.24	1.40	1.46
1	A	571	ARG	C-N	-5.24	1.26	1.33
1	A	64	LEU	CA-C	5.23	1.59	1.52
1	A	473	ILE	CA-C	-5.23	1.45	1.52
2	B	48	VAL	N-CA	-5.23	1.40	1.46
4	M	43	GLU	N-CA	-5.23	1.39	1.46
2	B	63	MET	CA-C	-5.23	1.45	1.52
1	A	96	SER	CA-C	5.23	1.61	1.52
2	B	319	LEU	CA-C	-5.22	1.46	1.52
2	B	455	ILE	N-CA	-5.22	1.40	1.46
3	S	142	ILE	N-CA	5.22	1.52	1.46
4	M	87	LEU	CA-C	-5.22	1.46	1.52
2	B	430	ILE	CA-C	-5.22	1.46	1.52
2	B	614	ILE	CA-C	-5.22	1.46	1.52
4	M	373	ALA	N-CA	-5.22	1.39	1.46
2	B	452	LYS	CA-C	-5.21	1.46	1.52
1	A	582	ILE	CA-C	-5.21	1.46	1.52
2	B	503	LEU	N-CA	-5.21	1.39	1.45
2	B	322	CYS	N-CA	-5.20	1.39	1.46
2	B	389	ILE	C-N	-5.20	1.27	1.33
2	B	301	LEU	CA-C	-5.20	1.45	1.52
1	A	155	THR	CA-C	-5.20	1.46	1.52
2	B	333	GLN	C-N	5.20	1.41	1.33
4	M	433	VAL	CA-C	-5.20	1.46	1.52
4	M	404	ALA	C-N	-5.18	1.26	1.33
4	M	407	THR	CA-C	-5.18	1.46	1.52
1	A	141	VAL	N-CA	-5.18	1.40	1.46
3	S	87	PHE	C-N	-5.18	1.26	1.33
1	A	485	PRO	C-O	-5.18	1.17	1.24
2	B	74	ASP	C-O	-5.18	1.18	1.23
4	M	226	PHE	C-N	5.18	1.40	1.33
4	M	367	ALA	CA-C	5.17	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	S	98	ILE	C-N	5.17	1.41	1.33
3	S	112	CYS	C-O	-5.17	1.17	1.24
1	A	584	PHE	CA-C	-5.17	1.46	1.52
3	S	167	ILE	C-O	-5.17	1.18	1.24
4	M	97	ASP	C-N	5.17	1.41	1.33
2	B	321	CYS	CA-C	-5.17	1.45	1.52
4	M	16	PHE	CA-C	5.17	1.59	1.52
2	B	619	ASP	CA-C	-5.16	1.46	1.52
1	A	308	ASP	N-CA	-5.16	1.35	1.46
1	A	431	VAL	C-N	5.16	1.40	1.34
4	M	355	ASP	C-N	-5.16	1.26	1.33
3	S	17	VAL	C-O	-5.16	1.18	1.24
3	S	155	GLU	CA-C	-5.16	1.45	1.52
1	A	278	ILE	CA-C	-5.15	1.42	1.52
2	B	469	ASP	N-CA	-5.15	1.40	1.46
4	M	77	LEU	C-N	-5.15	1.26	1.33
1	A	321	THR	CA-C	5.15	1.59	1.52
1	A	200	PHE	C-N	5.15	1.41	1.33
1	A	488	ARG	C-N	5.15	1.40	1.34
2	B	448	SER	CA-C	-5.15	1.46	1.52
2	B	73	ASP	N-CA	-5.14	1.38	1.46
1	A	532	LEU	N-CA	-5.14	1.40	1.46
4	M	134	PRO	N-CA	-5.14	1.40	1.47
1	A	200	PHE	N-CA	-5.14	1.40	1.46
2	B	126	SER	C-N	-5.14	1.26	1.33
2	B	242	SER	CA-C	-5.14	1.45	1.52
3	S	33	GLU	C-N	5.14	1.40	1.33
4	M	304	VAL	CA-C	-5.14	1.46	1.52
1	A	458	ALA	N-CA	-5.13	1.40	1.46
2	B	430	ILE	N-CA	-5.13	1.40	1.46
1	A	491	THR	C-N	5.13	1.40	1.33
1	A	551	LEU	CA-CB	-5.13	1.45	1.53
4	M	476	THR	CA-C	-5.13	1.45	1.52
1	A	378	ILE	N-CA	5.13	1.50	1.46
2	B	504	ALA	N-CA	-5.13	1.39	1.46
1	A	501	ASN	N-CA	-5.12	1.39	1.46
1	A	396	VAL	N-CA	-5.12	1.40	1.46
4	M	240	ILE	CA-C	-5.12	1.46	1.52
4	M	122	SER	CA-C	-5.12	1.46	1.52
1	A	284	SER	C-N	-5.12	1.25	1.33
2	B	569	THR	N-CA	-5.12	1.40	1.46
2	B	370	ASP	CA-C	-5.11	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	100	LEU	N-CA	-5.11	1.39	1.46
3	S	49	SER	CA-C	5.11	1.59	1.52
3	S	60	SER	C-O	-5.11	1.17	1.23
1	A	316	LEU	CA-C	-5.10	1.46	1.52
2	B	361	GLN	CA-C	-5.10	1.46	1.52
2	B	459	GLU	C-O	5.10	1.30	1.24
1	A	605	GLU	CA-C	-5.10	1.46	1.52
2	B	331	PRO	CA-C	5.10	1.59	1.52
3	S	137	GLN	CA-C	-5.09	1.46	1.52
2	B	344	VAL	CA-C	-5.09	1.46	1.52
2	B	300	ASP	CA-C	-5.09	1.46	1.52
2	B	211	ALA	N-CA	5.08	1.52	1.46
2	B	233	TYR	CA-C	-5.08	1.46	1.52
2	B	579	PRO	N-CD	-5.08	1.40	1.47
1	A	88	ASN	C-N	-5.08	1.27	1.33
1	A	510	THR	C-N	5.07	1.40	1.34
1	A	274	LEU	CA-C	-5.07	1.46	1.52
3	S	27	LYS	N-CA	-5.07	1.39	1.46
4	M	325	LEU	C-N	-5.07	1.26	1.33
3	S	144	THR	CA-C	-5.06	1.45	1.52
2	B	550	VAL	CA-C	-5.06	1.46	1.52
1	A	406	GLY	N-CA	-5.06	1.38	1.45
4	M	48	ASP	N-CA	-5.06	1.39	1.46
2	B	422	ALA	C-N	-5.06	1.27	1.33
2	B	499	VAL	N-CA	-5.06	1.40	1.46
2	B	210	CYS	CA-C	-5.06	1.46	1.52
1	A	158	LEU	C-N	5.05	1.40	1.33
1	A	243	ILE	CA-C	-5.05	1.42	1.52
2	B	463	LEU	C-N	5.05	1.40	1.33
1	A	294	SER	CA-C	-5.04	1.45	1.52
2	B	530	LEU	N-CA	-5.04	1.40	1.46
1	A	313	MET	N-CA	-5.04	1.40	1.46
1	A	562	TRP	N-CA	-5.04	1.40	1.46
2	B	597	TYR	N-CA	-5.04	1.39	1.46
2	B	339	PHE	C-N	5.04	1.40	1.33
2	B	615	SER	N-CA	-5.04	1.40	1.46
2	B	307	ASN	CA-CB	-5.03	1.45	1.53
1	A	493	ALA	CA-C	-5.03	1.46	1.52
1	A	457	LEU	C-N	5.03	1.40	1.33
3	S	122	ILE	N-CA	-5.03	1.40	1.46
1	A	587	ASN	N-CA	-5.03	1.40	1.46
3	S	104	THR	C-N	5.03	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	221	ASP	N-CA	-5.03	1.39	1.46
1	A	462	GLN	C-N	-5.02	1.27	1.33
3	S	93	GLU	N-CA	5.02	1.52	1.46
1	A	76	TYR	CA-C	-5.02	1.46	1.52
1	A	260	PHE	C-O	-5.02	1.18	1.24
1	A	436	CYS	C-O	5.02	1.30	1.24
2	B	189	HIS	C-N	5.02	1.40	1.33
2	B	531	ARG	C-N	5.02	1.40	1.33
4	M	458	LEU	C-O	5.01	1.30	1.23
4	M	355	ASP	N-CA	-5.01	1.39	1.46
1	A	436	CYS	N-CA	-5.00	1.40	1.46
1	A	630	PRO	N-CD	-5.00	1.40	1.47
2	B	592	TYR	N-CA	-5.00	1.40	1.46
3	S	152	SER	CA-C	-5.00	1.45	1.52
2	B	420	ALA	N-CA	-5.00	1.39	1.46
3	S	39	ILE	N-CA	-5.00	1.39	1.46

All (3362) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	S	69	ASN	N-CA-C	46.19	173.89	114.31
4	M	130	GLU	N-CA-C	-39.51	58.67	110.43
3	S	69	ASN	CA-C-O	-32.57	82.61	118.77
1	A	242	GLU	CA-C-N	31.86	179.05	121.70
1	A	242	GLU	C-N-CA	31.86	179.05	121.70
1	A	444	VAL	N-CA-C	-31.55	67.25	108.89
1	A	80	TYR	N-CA-C	-31.54	61.54	110.42
2	B	584	SER	N-CA-C	31.22	151.61	112.89
1	A	265	GLN	N-CA-C	-30.38	59.04	109.46
1	A	275	LEU	CA-C-N	-30.08	87.31	119.19
1	A	275	LEU	C-N-CA	-30.08	87.31	119.19
4	M	292	PRO	CA-C-N	29.86	157.16	119.84
4	M	292	PRO	C-N-CA	29.86	157.16	119.84
4	M	103	TYR	N-CA-C	-28.99	65.42	110.36
3	S	58	LEU	N-CA-C	-28.95	62.98	109.59
3	S	69	ASN	O-C-N	27.69	152.80	122.34
1	A	439	ASP	N-CA-C	-27.36	67.51	108.00
4	M	351	SER	N-CA-C	27.12	143.28	111.82
2	B	580	TYR	CA-C-N	-26.75	83.18	120.90
2	B	580	TYR	C-N-CA	-26.75	83.18	120.90
1	A	532	LEU	CA-C-N	-26.71	88.30	120.88
1	A	532	LEU	C-N-CA	-26.71	88.30	120.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	294	ASP	N-CA-C	-25.73	73.28	110.59
4	M	354	ASP	N-CA-C	-25.71	66.30	109.24
2	B	275	ARG	N-CA-C	-25.67	70.56	110.36
1	A	98	ASN	N-CA-C	-24.76	75.59	110.50
1	A	621	LEU	CA-C-N	-24.71	93.00	119.19
1	A	621	LEU	C-N-CA	-24.71	93.00	119.19
2	B	335	LYS	N-CA-C	-24.66	83.22	111.82
4	M	50	TYR	N-CA-C	24.45	143.05	111.75
1	A	629	LEU	CA-C-N	-24.22	95.09	119.56
1	A	629	LEU	C-N-CA	-24.22	95.09	119.56
4	M	54	SER	N-CA-C	23.97	143.81	112.88
2	B	330	SER	N-CA-C	-23.89	79.30	109.64
1	A	154	ILE	N-CA-C	23.65	134.52	112.29
2	B	336	ASN	CA-C-N	23.29	150.72	120.44
2	B	336	ASN	C-N-CA	23.29	150.72	120.44
2	B	262	LYS	CA-C-N	-23.14	95.60	119.90
2	B	262	LYS	C-N-CA	-23.14	95.60	119.90
1	A	277	LYS	CA-C-N	23.04	163.18	121.70
1	A	277	LYS	C-N-CA	23.04	163.18	121.70
2	B	78	ASP	CA-C-N	-23.00	88.65	121.77
2	B	78	ASP	C-N-CA	-23.00	88.65	121.77
3	S	21	THR	CA-C-N	-22.52	96.27	120.14
3	S	21	THR	C-N-CA	-22.52	96.27	120.14
4	M	80	THR	N-CA-C	22.37	146.83	114.39
4	M	135	ASN	N-CA-C	-22.31	72.36	108.73
4	M	82	LYS	CA-C-N	22.27	164.08	121.54
4	M	82	LYS	C-N-CA	22.27	164.08	121.54
4	M	45	SER	CA-C-N	-22.18	78.33	121.58
4	M	45	SER	C-N-CA	-22.18	78.33	121.58
4	M	52	ASP	N-CA-C	22.14	141.11	113.88
4	M	133	GLU	CA-C-N	-22.07	97.56	119.85
4	M	133	GLU	C-N-CA	-22.07	97.56	119.85
1	A	418	ILE	CA-C-N	-21.96	87.20	122.33
1	A	418	ILE	C-N-CA	-21.96	87.20	122.33
4	M	59	ASP	CA-C-N	-21.87	89.65	120.71
4	M	59	ASP	C-N-CA	-21.87	89.65	120.71
2	B	600	LYS	CA-C-N	-21.86	88.18	122.29
2	B	600	LYS	C-N-CA	-21.86	88.18	122.29
2	B	579	PRO	CA-C-N	-21.75	88.35	122.49
2	B	579	PRO	C-N-CA	-21.75	88.35	122.49
2	B	571	SER	N-CA-C	-21.69	83.73	110.41
4	M	354	ASP	CA-C-N	21.53	162.66	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	354	ASP	C-N-CA	21.53	162.66	121.54
4	M	130	GLU	CA-C-N	21.20	153.30	122.35
4	M	130	GLU	C-N-CA	21.20	153.30	122.35
2	B	263	PRO	CA-C-N	21.11	158.29	122.82
2	B	263	PRO	C-N-CA	21.11	158.29	122.82
1	A	98	ASN	CA-C-N	21.09	159.67	121.70
1	A	98	ASN	C-N-CA	21.09	159.67	121.70
4	M	403	THR	CA-C-N	21.03	161.77	122.02
4	M	403	THR	C-N-CA	21.03	161.77	122.02
3	S	46	PHE	CA-C-N	-20.73	90.34	121.02
3	S	46	PHE	C-N-CA	-20.73	90.34	121.02
1	A	416	ILE	CA-C-N	-20.70	98.94	119.85
1	A	416	ILE	C-N-CA	-20.70	98.94	119.85
4	M	82	LYS	N-CA-C	-20.54	78.53	109.14
2	B	286	ILE	N-CA-C	-20.52	80.16	109.51
1	A	229	ASN	CA-C-N	-20.44	98.71	119.56
1	A	229	ASN	C-N-CA	-20.44	98.71	119.56
1	A	464	ILE	CA-C-N	-20.29	90.11	120.75
1	A	464	ILE	C-N-CA	-20.29	90.11	120.75
1	A	534	LYS	CA-C-N	20.19	158.05	121.70
1	A	534	LYS	C-N-CA	20.19	158.05	121.70
3	S	167	ILE	N-CA-C	20.15	130.37	110.82
2	B	580	TYR	N-CA-C	-20.07	86.31	112.41
4	M	462	LYS	N-CA-C	-20.06	80.79	110.48
2	B	521	ILE	N-CA-C	-19.93	92.74	111.67
3	S	68	VAL	N-CA-C	19.84	136.72	107.75
2	B	577	ASN	CA-C-N	-19.78	100.01	120.38
2	B	577	ASN	C-N-CA	-19.78	100.01	120.38
2	B	273	SER	CA-C-N	19.69	144.46	119.84
2	B	273	SER	C-N-CA	19.69	144.46	119.84
4	M	21	GLY	CA-C-N	19.57	158.91	121.54
4	M	21	GLY	C-N-CA	19.57	158.91	121.54
1	A	80	TYR	O-C-N	-19.56	100.93	123.03
1	A	304	LEU	CA-C-N	-19.47	84.35	121.54
1	A	304	LEU	C-N-CA	-19.47	84.35	121.54
1	A	534	LYS	CA-C-O	-19.40	98.81	120.92
1	A	442	SER	N-CA-C	-19.29	89.44	111.82
4	M	280	ASP	N-CA-C	19.29	151.89	110.80
2	B	310	ILE	CA-C-N	-19.28	94.44	120.28
2	B	310	ILE	C-N-CA	-19.28	94.44	120.28
1	A	586	GLU	CA-C-N	-19.17	95.52	120.44
1	A	586	GLU	C-N-CA	-19.17	95.52	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	292	GLU	CA-C-N	19.17	147.64	120.42
2	B	292	GLU	C-N-CA	19.17	147.64	120.42
4	M	61	GLU	N-CA-C	-19.07	78.15	109.24
3	S	69	ASN	CB-CA-C	-19.07	76.99	109.02
2	B	290	SER	CA-C-N	-19.07	85.12	121.54
2	B	290	SER	C-N-CA	-19.07	85.12	121.54
4	M	347	PHE	N-CA-C	-19.03	87.67	114.12
1	A	64	LEU	O-C-N	-18.61	102.39	122.12
4	M	103	TYR	O-C-N	-18.52	99.24	122.20
4	M	46	SER	CA-C-N	-18.51	94.94	121.42
4	M	46	SER	C-N-CA	-18.51	94.94	121.42
4	M	402	SER	CA-C-N	-18.41	96.72	122.86
4	M	402	SER	C-N-CA	-18.41	96.72	122.86
2	B	581	TYR	CA-C-N	18.27	152.28	122.87
2	B	581	TYR	C-N-CA	18.27	152.28	122.87
4	M	103	TYR	CA-C-N	18.18	156.26	121.54
4	M	103	TYR	C-N-CA	18.18	156.26	121.54
3	S	46	PHE	N-CA-C	-18.12	89.51	112.88
3	S	25	LEU	CA-C-O	17.83	135.63	118.34
4	M	23	THR	N-CA-C	-17.67	80.61	109.40
4	M	404	ALA	N-CA-CB	-17.56	83.63	110.49
2	B	220	ALA	N-CA-C	-17.53	90.08	111.11
4	M	284	SER	CA-C-N	-17.50	102.67	119.82
4	M	284	SER	C-N-CA	-17.50	102.67	119.82
1	A	534	LYS	N-CA-C	-17.49	84.04	110.10
1	A	260	PHE	O-C-N	-17.13	102.63	122.15
1	A	204	VAL	O-C-N	-17.02	105.36	121.87
1	A	174	ARG	CA-C-N	16.96	136.86	119.56
1	A	174	ARG	C-N-CA	16.96	136.86	119.56
1	A	233	PHE	CA-C-N	-16.91	92.62	120.86
1	A	233	PHE	C-N-CA	-16.91	92.62	120.86
3	S	63	ASN	N-CA-C	-16.80	81.03	108.41
3	S	125	TRP	CA-C-O	-16.77	103.21	120.82
1	A	443	SER	N-CA-C	16.72	133.05	113.15
2	B	576	GLN	N-CA-C	-16.66	84.60	110.42
1	A	465	SER	N-CA-C	16.48	132.77	110.35
1	A	242	GLU	N-CA-C	-16.45	85.93	110.28
1	A	536	MET	CA-C-N	-16.45	93.24	120.71
1	A	536	MET	C-N-CA	-16.45	93.24	120.71
2	B	288	TYR	CA-C-N	16.42	137.49	119.92
2	B	288	TYR	C-N-CA	16.42	137.49	119.92
1	A	136	GLY	CA-C-N	-16.42	93.30	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	136	GLY	C-N-CA	-16.42	93.30	120.72
4	M	252	ASP	N-CA-C	-16.36	86.16	108.74
4	M	421	GLY	CA-C-N	-16.26	102.96	119.87
4	M	421	GLY	C-N-CA	-16.26	102.96	119.87
4	M	404	ALA	CB-CA-C	16.25	147.53	111.78
1	A	323	CYS	CA-C-N	16.23	150.91	121.70
1	A	323	CYS	C-N-CA	16.23	150.91	121.70
1	A	569	ASP	CA-C-N	-16.19	96.97	120.28
1	A	569	ASP	C-N-CA	-16.19	96.97	120.28
2	B	404	ASN	CA-C-N	-16.19	93.68	120.71
2	B	404	ASN	C-N-CA	-16.19	93.68	120.71
4	M	51	LEU	N-CA-C	16.13	145.15	110.80
1	A	380	ASP	N-CA-C	-16.09	84.58	109.52
2	B	570	GLY	N-CA-C	-16.07	88.72	115.08
1	A	302	ASN	N-CA-C	-16.00	76.72	110.80
2	B	387	ASP	CA-C-N	15.84	135.41	120.21
2	B	387	ASP	C-N-CA	15.84	135.41	120.21
2	B	273	SER	N-CA-C	15.77	132.76	109.42
1	A	151	SER	CA-C-N	-15.75	90.82	122.31
1	A	151	SER	C-N-CA	-15.75	90.82	122.31
1	A	100	LEU	CA-C-N	-15.71	99.07	120.44
1	A	100	LEU	C-N-CA	-15.71	99.07	120.44
4	M	458	LEU	O-C-N	15.67	140.74	123.03
2	B	187	ASP	CA-C-N	-15.64	97.40	122.26
2	B	187	ASP	C-N-CA	-15.64	97.40	122.26
2	B	559	ASP	CA-C-O	-15.61	101.35	119.15
4	M	292	PRO	N-CA-C	-15.61	91.66	110.70
4	M	405	THR	N-CA-C	15.61	144.04	110.80
4	M	232	HIS	CA-C-O	15.56	137.01	120.36
1	A	196	LEU	CA-C-N	-15.54	99.49	120.63
1	A	196	LEU	C-N-CA	-15.54	99.49	120.63
3	S	50	PHE	CA-C-N	-15.49	99.74	123.13
3	S	50	PHE	C-N-CA	-15.49	99.74	123.13
1	A	327	ASP	CA-C-N	15.46	135.33	119.56
1	A	327	ASP	C-N-CA	15.46	135.33	119.56
3	S	25	LEU	O-C-N	-15.40	106.23	120.71
3	S	109	LEU	O-C-N	-15.38	105.48	122.09
4	M	457	GLY	N-CA-C	-15.35	92.61	115.32
1	A	519	LEU	CA-C-N	-15.34	100.73	120.22
1	A	519	LEU	C-N-CA	-15.34	100.73	120.22
1	A	536	MET	O-C-N	-15.26	102.29	122.59
1	A	281	LEU	CA-C-O	15.25	137.51	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	240	LEU	CA-C-N	-15.19	98.72	120.29
1	A	240	LEU	C-N-CA	-15.19	98.72	120.29
2	B	277	CYS	CA-C-N	-15.19	104.73	120.98
2	B	277	CYS	C-N-CA	-15.19	104.73	120.98
1	A	381	GLU	CA-C-N	-15.19	98.41	120.28
1	A	381	GLU	C-N-CA	-15.19	98.41	120.28
1	A	300	LYS	N-CA-C	15.18	129.92	111.40
1	A	432	ILE	O-C-N	15.12	136.71	121.89
1	A	88	ASN	CA-C-N	-15.10	100.04	120.28
1	A	88	ASN	C-N-CA	-15.10	100.04	120.28
4	M	421	GLY	O-C-N	-15.07	106.69	121.77
3	S	62	GLU	N-CA-C	14.98	131.81	112.34
1	A	289	SER	O-C-N	-14.97	103.85	122.27
1	A	103	LYS	CA-C-O	14.96	137.01	120.10
1	A	461	CYS	CA-C-O	14.96	137.94	119.10
1	A	307	ASP	N-CA-C	-14.91	93.21	111.40
4	M	134	PRO	N-CA-C	-14.88	87.72	111.38
1	A	287	ALA	CA-C-N	14.86	148.45	121.70
1	A	287	ALA	C-N-CA	14.86	148.45	121.70
1	A	469	LEU	CA-C-O	14.86	136.17	120.42
2	B	240	LEU	N-CA-C	14.81	132.53	110.17
1	A	212	ILE	CA-C-N	-14.76	97.88	120.31
1	A	212	ILE	C-N-CA	-14.76	97.88	120.31
1	A	215	VAL	CA-C-O	14.73	137.40	121.05
2	B	223	LEU	CA-C-N	-14.72	99.08	120.28
2	B	223	LEU	C-N-CA	-14.72	99.08	120.28
1	A	84	MET	CA-C-N	-14.70	95.44	120.58
1	A	84	MET	C-N-CA	-14.70	95.44	120.58
3	S	109	LEU	CA-C-O	14.70	135.84	120.70
1	A	413	SER	N-CA-C	-14.69	87.93	109.96
1	A	465	SER	CA-C-N	14.64	145.29	121.58
1	A	465	SER	C-N-CA	14.64	145.29	121.58
1	A	504	ILE	CA-C-O	14.61	137.71	120.03
2	B	569	THR	N-CA-C	14.59	135.17	108.17
1	A	418	ILE	N-CA-C	14.59	129.24	107.51
3	S	164	ASP	CA-C-N	-14.58	95.89	120.68
3	S	164	ASP	C-N-CA	-14.58	95.89	120.68
1	A	529	GLY	CA-C-O	-14.53	104.70	120.40
1	A	432	ILE	CA-C-O	-14.53	105.94	121.05
1	A	391	LEU	CA-C-N	-14.49	100.87	120.28
1	A	391	LEU	C-N-CA	-14.49	100.87	120.28
3	S	58	LEU	CA-C-O	14.41	135.98	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	118	TYR	CA-C-O	-14.40	105.08	120.63
4	M	373	ALA	CB-CA-C	14.39	133.40	109.80
2	B	158	VAL	CA-C-O	-14.39	105.92	121.17
1	A	264	SER	CA-C-N	-14.38	101.92	122.19
1	A	264	SER	C-N-CA	-14.38	101.92	122.19
1	A	415	ARG	N-CA-C	-14.37	89.25	110.52
2	B	428	VAL	O-C-N	14.36	139.46	121.94
1	A	86	TRP	CA-C-N	-14.35	99.26	122.08
1	A	86	TRP	C-N-CA	-14.35	99.26	122.08
1	A	384	LEU	O-C-N	14.30	136.90	122.03
2	B	535	GLN	CA-C-N	-14.25	98.34	122.14
2	B	535	GLN	C-N-CA	-14.25	98.34	122.14
2	B	418	TYR	CA-C-N	-14.25	102.33	120.56
2	B	418	TYR	C-N-CA	-14.25	102.33	120.56
2	B	154	ILE	CA-C-O	-14.21	106.17	120.95
2	B	287	GLU	N-CA-C	-14.21	87.17	109.76
1	A	394	GLN	CA-C-O	-14.19	104.07	120.10
2	B	212	VAL	CA-C-O	14.14	139.82	121.15
4	M	281	GLY	N-CA-C	-14.14	96.82	115.21
3	S	66	ASP	N-CA-C	-14.09	88.88	109.59
3	S	139	GLY	CA-C-N	-14.09	101.81	122.94
3	S	139	GLY	C-N-CA	-14.09	101.81	122.94
3	S	43	ASN	O-C-N	-14.01	105.58	122.81
1	A	448	GLU	N-CA-C	-13.99	89.95	110.23
1	A	529	GLY	N-CA-C	-13.98	94.92	113.24
3	S	163	THR	CA-C-N	13.97	148.23	121.54
3	S	163	THR	C-N-CA	13.97	148.23	121.54
3	S	99	LEU	CA-C-O	-13.94	105.64	120.42
3	S	46	PHE	CA-C-O	-13.89	103.20	119.59
2	B	314	ASN	O-C-N	13.87	132.47	121.23
1	A	88	ASN	CA-C-O	13.86	135.62	120.24
1	A	328	PRO	CA-C-N	-13.85	100.63	120.29
1	A	328	PRO	C-N-CA	-13.85	100.63	120.29
1	A	138	ASN	N-CA-C	-13.82	87.41	109.39
4	M	63	TYR	CA-C-N	-13.82	99.59	122.81
4	M	63	TYR	C-N-CA	-13.82	99.59	122.81
1	A	607	LEU	CA-C-O	-13.79	105.94	120.55
1	A	244	LEU	O-C-N	-13.77	106.50	122.20
1	A	265	GLN	CA-C-O	-13.73	105.03	120.54
2	B	375	LEU	O-C-N	-13.73	105.53	121.32
3	S	5	VAL	O-C-N	-13.73	108.62	123.03
2	B	337	THR	CA-C-O	-13.71	106.42	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	S	25	LEU	CA-C-N	-13.70	105.58	119.56
3	S	25	LEU	C-N-CA	-13.70	105.58	119.56
2	B	102	HIS	CA-C-O	13.68	135.05	120.55
2	B	112	ASP	CA-C-O	-13.68	109.20	119.32
1	A	403	LEU	CA-C-N	-13.66	97.90	120.71
1	A	403	LEU	C-N-CA	-13.66	97.90	120.71
4	M	80	THR	CA-C-N	13.65	147.62	121.54
4	M	80	THR	C-N-CA	13.65	147.62	121.54
1	A	325	SER	N-CA-C	-13.65	87.56	108.99
2	B	289	PRO	CA-C-N	-13.65	96.67	122.06
2	B	289	PRO	C-N-CA	-13.65	96.67	122.06
1	A	547	VAL	O-C-N	13.64	136.09	121.90
2	B	302	PHE	CA-C-O	-13.62	106.87	120.90
1	A	419	ILE	N-CA-C	13.58	126.88	108.27
1	A	120	ILE	O-C-N	13.54	135.78	121.83
1	A	431	VAL	O-C-N	13.54	135.99	121.90
2	B	478	LEU	CA-C-O	13.54	135.04	120.82
1	A	346	THR	CA-C-N	-13.52	97.70	120.68
1	A	346	THR	C-N-CA	-13.52	97.70	120.68
2	B	102	HIS	O-C-N	-13.49	107.82	122.12
2	B	185	LYS	CA-C-N	-13.48	92.69	121.80
2	B	185	LYS	C-N-CA	-13.48	92.69	121.80
1	A	504	ILE	O-C-N	-13.45	106.72	122.06
3	S	6	LEU	O-C-N	-13.46	107.57	123.31
1	A	469	LEU	CA-C-N	-13.43	96.88	120.79
1	A	469	LEU	C-N-CA	-13.43	96.88	120.79
1	A	405	THR	CA-C-N	-13.43	95.09	121.41
1	A	405	THR	C-N-CA	-13.43	95.09	121.41
2	B	366	LEU	O-C-N	-13.42	107.89	122.12
2	B	457	HIS	CA-C-O	13.42	134.52	120.70
1	A	586	GLU	O-C-N	-13.42	106.85	122.15
4	M	268	GLY	CA-C-N	-13.40	97.34	122.13
4	M	268	GLY	C-N-CA	-13.40	97.34	122.13
2	B	306	LEU	CA-C-O	-13.37	106.19	120.63
1	A	365	VAL	CA-C-N	-13.36	97.76	121.14
1	A	365	VAL	C-N-CA	-13.36	97.76	121.14
2	B	363	ILE	CA-C-O	-13.36	107.05	120.95
2	B	526	CYS	O-C-N	13.35	136.67	121.32
4	M	126	ASN	O-C-N	13.32	136.24	122.12
1	A	107	TYR	CA-C-O	-13.29	106.47	120.55
2	B	388	PRO	CA-C-N	13.29	137.57	120.56
2	B	388	PRO	C-N-CA	13.29	137.57	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	3	LEU	O-C-N	-13.27	107.27	123.33
4	M	293	PRO	CA-N-CD	-13.27	93.42	112.00
2	B	267	ASP	CA-C-O	13.25	134.32	120.54
3	S	106	VAL	CA-C-O	-13.23	106.36	121.05
1	A	450	TYR	O-C-N	13.20	135.67	122.07
1	A	320	HIS	O-C-N	-13.20	107.11	122.15
1	A	545	HIS	CA-C-N	-13.20	100.25	120.31
1	A	545	HIS	C-N-CA	-13.20	100.25	120.31
1	A	420	ILE	CA-C-N	13.17	132.86	120.21
1	A	420	ILE	C-N-CA	13.17	132.86	120.21
4	M	279	ASN	N-CA-C	13.14	138.79	110.80
4	M	406	GLY	CA-C-N	-13.13	100.31	122.64
4	M	406	GLY	C-N-CA	-13.13	100.31	122.64
4	M	367	ALA	CA-C-N	13.12	142.42	121.17
4	M	367	ALA	C-N-CA	13.12	142.42	121.17
4	M	450	GLU	CA-C-O	13.12	135.90	119.11
1	A	301	GLY	N-CA-C	-13.12	95.83	113.27
4	M	379	LEU	O-C-N	-13.12	107.69	123.30
3	S	54	PRO	N-CA-C	-13.06	94.76	110.70
4	M	83	SER	CA-C-N	13.05	146.46	121.54
4	M	83	SER	C-N-CA	13.05	146.46	121.54
1	A	350	SER	O-C-N	-13.03	108.31	122.12
2	B	43	ASN	CA-C-N	13.02	134.58	119.47
2	B	43	ASN	C-N-CA	13.02	134.58	119.47
3	S	58	LEU	CA-C-N	-13.02	102.72	120.95
3	S	58	LEU	C-N-CA	-13.02	102.72	120.95
1	A	601	VAL	CA-C-O	13.01	134.48	120.95
4	M	74	TYR	CA-C-O	13.01	137.30	121.56
2	B	260	LEU	N-CA-C	-13.00	81.07	109.81
4	M	59	ASP	N-CA-C	-12.99	96.78	112.89
2	B	339	PHE	O-C-N	12.99	135.89	122.12
1	A	140	VAL	CA-C-O	12.99	134.46	120.95
1	A	486	SER	N-CA-C	-12.99	93.58	110.33
1	A	163	ALA	CA-C-N	-12.98	99.04	120.72
1	A	163	ALA	C-N-CA	-12.98	99.04	120.72
2	B	515	PHE	CA-C-N	-12.98	105.57	119.98
2	B	515	PHE	C-N-CA	-12.98	105.57	119.98
1	A	600	SER	CA-C-O	-12.95	107.56	120.90
2	B	146	LYS	CA-C-N	-12.94	100.93	122.29
2	B	146	LYS	C-N-CA	-12.94	100.93	122.29
1	A	158	LEU	CA-C-O	-12.93	107.38	120.70
2	B	469	ASP	CA-C-O	-12.91	107.40	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	472	VAL	O-C-N	-12.90	108.49	121.90
1	A	388	VAL	CA-C-O	-12.89	106.22	121.18
1	A	440	ASN	CA-C-N	12.88	146.15	121.54
1	A	440	ASN	C-N-CA	12.88	146.15	121.54
2	B	285	GLU	N-CA-C	-12.87	93.51	110.24
3	S	143	GLU	N-CA-C	-12.86	86.01	108.13
2	B	505	ASP	CA-C-N	-12.86	98.82	120.68
2	B	505	ASP	C-N-CA	-12.86	98.82	120.68
1	A	162	ILE	CA-C-O	-12.84	107.56	121.17
1	A	407	SER	N-CA-C	-12.84	93.60	110.43
2	B	162	VAL	CA-C-N	-12.84	96.63	122.31
2	B	162	VAL	C-N-CA	-12.84	96.63	122.31
4	M	126	ASN	CA-C-O	-12.84	106.94	120.55
2	B	270	SER	N-CA-C	-12.82	91.11	109.31
1	A	155	THR	CA-C-N	12.81	134.33	119.47
1	A	155	THR	C-N-CA	12.81	134.33	119.47
1	A	298	ILE	CA-C-O	12.81	134.43	120.85
4	M	477	GLY	CA-C-N	-12.80	99.45	122.74
4	M	477	GLY	C-N-CA	-12.80	99.45	122.74
2	B	442	LEU	CA-C-N	-12.79	103.05	122.74
2	B	442	LEU	C-N-CA	-12.79	103.05	122.74
2	B	389	ILE	CA-C-N	-12.78	104.21	120.56
2	B	389	ILE	C-N-CA	-12.78	104.21	120.56
2	B	508	ARG	CA-C-O	12.78	134.09	120.55
1	A	504	ILE	CA-C-N	-12.77	98.98	120.68
1	A	504	ILE	C-N-CA	-12.77	98.98	120.68
2	B	204	ASP	O-C-N	12.76	132.41	121.31
1	A	152	THR	CA-C-N	-12.74	107.39	123.19
1	A	152	THR	C-N-CA	-12.74	107.39	123.19
1	A	508	LEU	CA-C-O	-12.74	103.98	120.80
2	B	574	ASN	CA-C-N	-12.73	100.66	122.56
2	B	574	ASN	C-N-CA	-12.73	100.66	122.56
1	A	290	VAL	CA-C-O	-12.73	106.72	120.47
3	S	96	LEU	CA-C-O	-12.73	107.45	120.82
1	A	105	VAL	O-C-N	12.72	134.72	121.87
1	A	260	PHE	CA-C-N	-12.71	103.25	120.28
1	A	260	PHE	C-N-CA	-12.71	103.25	120.28
4	M	394	GLN	CA-C-O	12.70	134.42	120.32
1	A	513	ARG	CA-C-O	-12.70	107.62	120.70
1	A	108	LEU	CA-C-O	-12.68	107.11	120.55
1	A	601	VAL	CA-C-N	-12.67	103.18	120.79
1	A	601	VAL	C-N-CA	-12.67	103.18	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	460	SER	N-CA-C	12.65	128.84	113.41
4	M	108	LYS	CA-C-N	-12.64	101.69	122.17
4	M	108	LYS	C-N-CA	-12.64	101.69	122.17
2	B	490	ILE	CA-C-O	-12.64	107.80	120.95
2	B	333	GLN	N-CA-C	-12.64	94.94	111.24
2	B	109	ALA	CA-C-N	-12.62	100.31	120.63
2	B	109	ALA	C-N-CA	-12.62	100.31	120.63
1	A	492	ILE	CA-C-O	-12.62	107.04	121.05
2	B	287	GLU	CA-C-N	12.62	147.68	122.70
2	B	287	GLU	C-N-CA	12.62	147.68	122.70
2	B	486	HIS	O-C-N	12.62	135.65	122.03
4	M	368	ASP	CA-C-O	-12.61	107.01	119.49
2	B	205	PRO	CA-C-N	-12.60	99.09	121.14
2	B	205	PRO	C-N-CA	-12.60	99.09	121.14
1	A	217	ALA	CA-C-O	-12.59	107.60	120.82
1	A	192	TYR	CA-C-O	-12.59	102.91	120.16
1	A	333	ILE	CA-C-O	-12.59	107.86	120.95
1	A	629	LEU	CA-C-O	12.58	130.27	118.44
1	A	633	PHE	CA-C-O	-12.57	107.45	120.90
2	B	328	LEU	CA-C-N	-12.56	103.15	121.24
2	B	328	LEU	C-N-CA	-12.56	103.15	121.24
1	A	453	VAL	O-C-N	12.56	134.05	121.87
4	M	330	GLY	CA-C-N	12.56	142.09	120.87
4	M	330	GLY	C-N-CA	12.56	142.09	120.87
2	B	112	ASP	N-CA-C	12.54	126.67	109.24
1	A	454	ILE	CA-C-O	-12.52	107.58	120.85
4	M	279	ASN	CA-C-N	12.51	145.44	121.54
4	M	279	ASN	C-N-CA	12.51	145.44	121.54
2	B	296	ASP	CA-C-O	-12.50	103.03	120.16
1	A	155	THR	CA-C-O	-12.50	106.88	120.88
1	A	295	VAL	CA-C-O	-12.49	107.19	121.05
1	A	196	LEU	CA-C-O	12.48	134.20	120.10
2	B	408	VAL	O-C-N	12.48	134.68	121.83
1	A	225	LEU	CA-C-O	-12.46	106.02	120.10
1	A	479	ASN	O-C-N	12.45	135.32	122.12
2	B	575	ASN	N-CA-C	-12.45	98.08	113.02
1	A	84	MET	O-C-N	-12.44	107.19	122.24
2	B	581	TYR	N-CA-C	-12.42	92.72	110.24
1	A	508	LEU	CA-C-N	12.42	132.84	119.05
1	A	508	LEU	C-N-CA	12.42	132.84	119.05
1	A	297	CYS	CA-C-O	12.42	133.86	120.82
1	A	316	LEU	CA-C-O	-12.39	107.94	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	147	MET	O-C-N	-12.38	108.91	123.27
3	S	37	GLU	O-C-N	12.38	136.26	122.15
1	A	70	ALA	O-C-N	12.37	135.23	122.12
1	A	296	ASN	CA-C-O	-12.36	107.45	120.55
2	B	325	LEU	CA-C-O	12.36	135.12	119.05
1	A	434	SER	O-C-N	12.34	135.20	122.12
2	B	299	LEU	O-C-N	12.32	135.40	122.09
2	B	209	SER	CA-C-O	-12.32	107.50	120.55
1	A	158	LEU	O-C-N	12.30	135.38	122.09
2	B	230	PHE	CA-C-N	-12.29	98.06	121.54
2	B	230	PHE	C-N-CA	-12.29	98.06	121.54
1	A	631	SER	CA-C-O	-12.29	107.39	120.42
1	A	233	PHE	O-C-N	-12.26	108.86	122.34
1	A	220	SER	O-C-N	12.25	134.83	122.09
1	A	511	VAL	O-C-N	12.25	134.24	121.87
1	A	71	VAL	CA-C-O	-12.23	107.48	120.57
1	A	110	ALA	CA-C-N	-12.23	99.89	120.68
1	A	110	ALA	C-N-CA	-12.23	99.89	120.68
4	M	51	LEU	CA-C-N	-12.23	101.33	122.36
4	M	51	LEU	C-N-CA	-12.23	101.33	122.36
4	M	97	ASP	O-C-N	12.23	135.08	122.12
1	A	64	LEU	CA-C-O	12.21	133.50	120.55
1	A	491	THR	CA-C-O	-12.21	107.60	120.55
2	B	366	LEU	CA-C-N	-12.21	101.06	120.60
2	B	366	LEU	C-N-CA	-12.21	101.06	120.60
1	A	474	GLY	O-C-N	12.21	134.03	122.19
1	A	282	MET	O-C-N	-12.19	107.27	122.27
2	B	497	LEU	O-C-N	-12.19	106.00	122.33
1	A	551	LEU	CA-C-O	-12.19	108.35	120.90
2	B	260	LEU	CA-C-N	-12.18	104.62	119.84
2	B	260	LEU	C-N-CA	-12.18	104.62	119.84
2	B	123	LEU	CA-C-O	-12.17	106.73	120.24
4	M	41	LEU	O-C-N	12.17	137.24	122.27
4	M	57	GLY	CA-C-N	12.15	145.77	121.95
4	M	57	GLY	C-N-CA	12.15	145.77	121.95
3	S	60	SER	N-CA-C	-12.15	90.31	109.50
2	B	293	VAL	CA-C-N	-12.14	102.00	120.82
2	B	293	VAL	C-N-CA	-12.14	102.00	120.82
3	S	150	VAL	CA-C-O	-12.14	107.98	120.85
1	A	135	ASP	CA-C-N	-12.13	97.64	121.41
1	A	135	ASP	C-N-CA	-12.13	97.64	121.41
1	A	601	VAL	O-C-N	-12.12	110.11	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	99	ARG	CA-C-O	-12.12	108.22	120.70
2	B	229	HIS	CA-C-N	12.12	137.73	120.28
2	B	229	HIS	C-N-CA	12.12	137.73	120.28
1	A	421	PRO	CA-C-O	-12.10	105.26	122.31
1	A	507	GLN	CA-C-N	-12.08	107.75	123.34
1	A	507	GLN	C-N-CA	-12.08	107.75	123.34
2	B	363	ILE	O-C-N	12.08	133.59	121.87
3	S	83	LEU	CA-C-O	12.08	134.81	121.16
1	A	281	LEU	CA-C-N	-12.07	101.96	120.31
1	A	281	LEU	C-N-CA	-12.07	101.96	120.31
1	A	289	SER	CA-C-O	12.07	133.85	119.97
2	B	411	ILE	O-C-N	12.07	133.74	121.91
2	B	303	LEU	CA-C-O	-12.07	107.98	120.90
1	A	631	SER	O-C-N	12.06	135.90	122.15
2	B	82	TYR	CA-C-N	-12.06	95.74	121.80
2	B	82	TYR	C-N-CA	-12.06	95.74	121.80
2	B	56	SER	CA-C-N	-12.06	104.12	120.28
2	B	56	SER	C-N-CA	-12.06	104.12	120.28
1	A	545	HIS	O-C-N	-12.05	109.34	122.12
1	A	271	ARG	CA-C-O	-12.04	107.62	120.63
2	B	412	PHE	CA-C-O	-12.03	107.80	120.55
1	A	575	LYS	CA-C-O	-12.01	108.20	120.82
1	A	162	ILE	O-C-N	12.01	133.68	121.91
1	A	140	VAL	CA-C-N	-12.01	106.23	120.88
1	A	140	VAL	C-N-CA	-12.01	106.23	120.88
1	A	518	CYS	CA-C-O	-12.01	107.66	120.63
2	B	158	VAL	O-C-N	12.01	133.68	121.91
1	A	237	SER	CA-C-O	-12.01	107.29	118.33
2	B	189	HIS	CA-C-O	-12.00	107.83	120.55
2	B	430	ILE	CA-C-O	-11.99	108.46	121.29
1	A	125	THR	CA-C-O	-11.97	108.57	120.90
2	B	138	ALA	CA-C-O	-11.97	108.37	120.70
3	S	96	LEU	O-C-N	11.95	134.38	122.07
1	A	143	VAL	O-C-N	11.95	133.62	121.91
1	A	257	LEU	CA-C-O	-11.95	107.76	120.42
1	A	556	VAL	O-C-N	11.95	133.46	121.87
1	A	305	GLU	N-CA-C	11.94	136.24	110.80
2	B	505	ASP	O-C-N	-11.91	109.49	122.12
1	A	573	GLU	CA-C-N	-11.90	103.75	120.53
1	A	573	GLU	C-N-CA	-11.90	103.75	120.53
1	A	341	ILE	CA-C-O	-11.90	108.58	120.95
2	B	461	HIS	CA-C-N	-11.88	98.85	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	461	HIS	C-N-CA	-11.88	98.85	121.54
2	B	174	ALA	CA-C-N	-11.87	104.37	120.28
2	B	174	ALA	C-N-CA	-11.87	104.37	120.28
3	S	85	PHE	CA-C-O	11.87	133.18	120.36
1	A	473	ILE	O-C-N	11.87	133.86	121.87
4	M	407	THR	N-CA-C	-11.87	91.06	110.17
1	A	496	ILE	CA-C-O	-11.86	108.59	121.17
1	A	233	PHE	CA-C-O	11.85	131.93	118.77
2	B	139	LEU	CA-C-O	-11.84	106.72	120.10
3	S	8	PHE	CA-C-O	11.84	134.53	121.16
2	B	317	VAL	O-C-N	11.83	135.54	122.06
1	A	103	LYS	O-C-N	-11.82	108.39	122.22
1	A	549	GLU	O-C-N	11.82	135.63	122.15
4	M	6	TYR	O-C-N	-11.82	107.78	123.15
2	B	560	ILE	CA-C-N	-11.81	98.98	121.54
2	B	560	ILE	C-N-CA	-11.81	98.98	121.54
1	A	569	ASP	N-CA-C	-11.81	85.65	110.80
1	A	606	PHE	O-C-N	11.80	134.36	122.09
2	B	79	VAL	CA-C-O	-11.79	106.70	119.20
2	B	318	ILE	CA-C-O	-11.79	108.09	120.71
2	B	415	LEU	O-C-N	11.79	134.21	122.07
2	B	577	ASN	N-CA-C	11.79	136.34	108.40
3	S	139	GLY	N-CA-C	-11.78	97.93	115.72
2	B	111	ASN	N-CA-C	11.77	127.79	112.72
4	M	46	SER	N-CA-C	-11.76	98.95	113.18
1	A	422	GLU	CA-C-O	-11.75	107.96	120.42
2	B	56	SER	O-C-N	-11.75	109.67	122.12
1	A	145	ILE	CA-C-O	-11.74	108.02	121.05
3	S	74	GLN	O-C-N	-11.74	110.00	123.27
2	B	365	PHE	CA-C-O	-11.73	108.35	120.90
1	A	539	ASN	CA-C-N	-11.72	103.78	120.42
1	A	539	ASN	C-N-CA	-11.72	103.78	120.42
1	A	573	GLU	O-C-N	-11.71	109.44	122.09
2	B	216	LYS	CA-C-N	-11.72	104.26	122.42
2	B	216	LYS	C-N-CA	-11.72	104.26	122.42
4	M	351	SER	CA-C-N	11.71	143.91	121.54
4	M	351	SER	C-N-CA	11.71	143.91	121.54
2	B	548	ILE	O-C-N	11.71	133.23	121.87
1	A	582	ILE	CA-C-O	-11.70	108.06	121.05
1	A	496	ILE	O-C-N	11.70	133.37	121.91
4	M	371	GLU	CA-C-N	-11.70	110.66	121.65
4	M	371	GLU	C-N-CA	-11.70	110.66	121.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	108	PHE	CA-C-O	11.69	137.23	120.51
2	B	324	ALA	CA-C-O	-11.69	108.16	120.55
1	A	508	LEU	N-CA-C	11.69	130.25	108.97
2	B	154	ILE	O-C-N	11.68	133.20	121.87
4	M	455	VAL	CA-C-N	-11.67	104.56	121.83
4	M	455	VAL	C-N-CA	-11.67	104.56	121.83
2	B	489	ILE	O-C-N	11.67	133.84	121.83
2	B	494	ALA	O-C-N	11.66	135.50	122.20
2	B	395	LYS	CA-C-O	-11.65	108.05	120.63
2	B	415	LEU	CA-C-O	-11.65	108.59	120.82
1	A	263	LEU	CA-C-N	-11.64	103.51	120.28
1	A	263	LEU	C-N-CA	-11.64	103.51	120.28
2	B	605	PHE	CA-C-O	-11.64	108.45	120.90
2	B	341	GLU	CA-C-O	-11.63	108.06	120.63
2	B	66	ILE	O-C-N	11.63	133.61	121.87
3	S	4	ALA	CA-C-O	11.60	133.74	120.75
2	B	271	GLU	N-CA-C	11.60	128.19	109.76
2	B	54	ARG	N-CA-C	11.59	125.26	111.82
4	M	306	LEU	O-C-N	-11.59	107.18	122.59
1	A	559	PHE	O-C-N	11.58	134.39	122.12
3	S	117	ASN	CA-C-O	-11.53	108.07	121.68
2	B	51	LEU	CA-C-N	-11.51	102.76	122.56
2	B	51	LEU	C-N-CA	-11.51	102.76	122.56
1	A	637	GLU	CA-C-N	-11.50	101.00	121.70
1	A	637	GLU	C-N-CA	-11.50	101.00	121.70
2	B	82	TYR	N-CA-C	-11.49	98.79	112.92
1	A	582	ILE	O-C-N	11.48	133.84	121.90
2	B	97	VAL	O-C-N	11.48	133.84	121.90
4	M	91	THR	CA-C-O	-11.48	105.60	119.49
1	A	596	VAL	O-C-N	11.47	134.76	121.80
1	A	545	HIS	CA-C-O	11.46	132.70	120.55
4	M	5	PHE	CA-C-O	11.47	134.38	120.28
4	M	54	SER	CA-C-N	11.46	139.53	122.68
4	M	54	SER	C-N-CA	11.46	139.53	122.68
3	S	36	TYR	O-C-N	11.46	135.21	122.15
1	A	221	VAL	CA-C-O	-11.45	109.03	121.17
1	A	327	ASP	O-C-N	11.45	131.04	121.31
1	A	429	VAL	CA-C-O	-11.45	109.04	120.95
1	A	182	ILE	O-C-N	11.44	133.80	121.90
2	B	593	ASN	CA-C-O	-11.43	108.28	120.63
3	S	153	VAL	O-C-N	11.43	134.72	121.80
2	B	329	ALA	CB-CA-C	-11.43	93.11	110.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	572	PHE	CA-C-N	11.43	135.98	120.44
1	A	572	PHE	C-N-CA	11.43	135.98	120.44
3	S	106	VAL	O-C-N	11.43	133.79	121.90
4	M	54	SER	O-C-N	11.43	135.85	122.25
4	M	425	THR	CA-C-N	11.43	138.96	122.05
4	M	425	THR	C-N-CA	11.43	138.96	122.05
1	A	107	TYR	O-C-N	11.42	134.23	122.12
1	A	313	MET	CA-C-O	-11.42	108.83	120.82
1	A	105	VAL	CA-C-O	-11.42	108.35	120.57
2	B	104	TYR	O-C-N	11.40	133.89	122.03
2	B	211	ALA	O-C-N	11.40	137.21	122.39
2	B	389	ILE	O-C-N	-11.40	110.05	121.90
2	B	174	ALA	CA-C-O	11.40	132.50	120.42
2	B	416	LYS	O-C-N	11.40	135.19	122.20
3	S	54	PRO	CA-N-CD	-11.39	96.05	112.00
2	B	508	ARG	O-C-N	-11.38	110.05	122.12
4	M	16	PHE	CA-C-O	11.38	133.41	120.89
1	A	624	LEU	CA-C-O	-11.37	108.37	120.42
2	B	402	LEU	N-CA-C	11.37	126.98	112.89
4	M	122	SER	CA-C-O	-11.37	109.19	120.90
1	A	487	MET	O-C-N	-11.36	109.72	121.88
4	M	131	ALA	N-CA-C	11.36	127.14	111.92
1	A	80	TYR	CA-C-N	11.35	142.13	121.70
1	A	80	TYR	C-N-CA	11.35	142.13	121.70
2	B	586	SER	CA-C-O	-11.35	108.59	121.07
1	A	242	GLU	CA-C-O	-11.34	108.46	121.16
2	B	614	ILE	O-C-N	11.34	132.87	121.87
1	A	237	SER	O-C-N	11.34	131.93	120.70
2	B	67	ILE	CA-C-O	-11.34	108.00	120.25
4	M	426	LYS	CA-C-N	11.34	139.17	122.39
4	M	426	LYS	C-N-CA	11.34	139.17	122.39
2	B	132	SER	CA-C-N	-11.33	101.21	120.58
2	B	132	SER	C-N-CA	-11.33	101.21	120.58
1	A	607	LEU	O-C-N	11.32	134.12	122.12
2	B	511	ILE	CA-C-O	11.31	133.03	121.27
2	B	48	VAL	CA-C-O	-11.31	109.19	120.95
1	A	383	ASN	O-C-N	11.30	134.09	122.12
2	B	472	VAL	CA-C-O	11.29	133.59	121.05
2	B	478	LEU	O-C-N	-11.29	110.44	122.07
1	A	212	ILE	O-C-N	-11.29	109.19	122.06
4	M	368	ASP	O-C-N	11.29	131.68	121.18
2	B	552	SER	O-C-N	11.28	133.69	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	47	SER	N-CA-C	-11.28	92.37	110.20
1	A	555	LEU	O-C-N	11.27	133.68	122.07
1	A	325	SER	CA-C-N	11.27	136.51	120.28
1	A	325	SER	C-N-CA	11.27	136.51	120.28
3	S	68	VAL	CA-C-N	-11.27	104.54	122.24
3	S	68	VAL	C-N-CA	-11.27	104.54	122.24
1	A	604	LEU	CA-C-O	-11.27	108.61	120.55
1	A	635	ALA	O-C-N	11.27	133.67	122.07
3	S	8	PHE	O-C-N	-11.27	108.97	123.16
3	S	150	VAL	O-C-N	11.27	133.43	121.83
2	B	116	THR	CA-C-O	-11.26	109.30	120.90
3	S	98	ILE	CA-C-O	-11.26	108.67	120.71
1	A	279	LEU	CA-C-N	-11.25	104.32	120.29
1	A	279	LEU	C-N-CA	-11.25	104.32	120.29
1	A	558	VAL	CA-C-O	-11.25	108.56	121.05
2	B	411	ILE	CA-C-O	-11.25	109.25	121.17
2	B	314	ASN	CA-C-O	-11.24	111.98	119.29
2	B	467	VAL	CA-C-O	-11.23	108.94	120.85
4	M	420	THR	CA-C-N	-11.23	104.24	121.87
4	M	420	THR	C-N-CA	-11.23	104.24	121.87
2	B	490	ILE	O-C-N	11.21	132.75	121.87
2	B	550	VAL	O-C-N	11.21	132.75	121.87
4	M	55	MET	CA-C-N	-11.21	106.08	120.77
4	M	55	MET	C-N-CA	-11.21	106.08	120.77
1	A	433	ILE	CA-C-O	-11.21	108.61	121.05
1	A	522	PHE	CA-C-O	-11.21	106.44	119.78
2	B	489	ILE	CA-C-O	-11.20	108.98	120.85
1	A	578	LEU	CA-C-O	-11.20	108.68	120.55
2	B	204	ASP	CA-C-O	-11.20	108.54	119.51
1	A	319	LEU	O-C-N	-11.19	107.68	122.23
4	M	458	LEU	N-CA-C	-11.19	93.07	110.42
1	A	462	GLN	O-C-N	-11.19	107.34	122.33
1	A	341	ILE	O-C-N	11.18	132.72	121.87
2	B	548	ILE	CA-C-O	-11.18	109.32	120.95
2	B	614	ILE	CA-C-O	-11.18	109.32	120.95
4	M	96	ILE	O-C-N	11.17	133.52	121.90
2	B	497	LEU	CA-C-N	-11.17	99.06	121.18
2	B	497	LEU	C-N-CA	-11.17	99.06	121.18
2	B	573	GLU	CA-C-N	-11.16	104.51	122.26
2	B	573	GLU	C-N-CA	-11.16	104.51	122.26
1	A	121	LEU	CA-C-O	-11.16	109.20	120.70
1	A	333	ILE	O-C-N	11.15	132.69	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	335	CYS	CA-C-O	-11.15	108.73	120.55
2	B	145	MET	CA-C-N	-11.15	105.73	123.23
2	B	145	MET	C-N-CA	-11.15	105.73	123.23
2	B	288	TYR	N-CA-C	-11.14	91.57	109.40
4	M	90	PHE	CA-C-O	-11.14	108.61	120.42
1	A	602	GLU	O-C-N	11.13	133.99	122.08
4	M	290	PHE	CA-C-N	11.13	138.60	122.24
4	M	290	PHE	C-N-CA	11.13	138.60	122.24
1	A	188	VAL	CA-C-O	-11.12	108.28	121.18
1	A	242	GLU	O-C-N	-11.11	109.34	122.89
1	A	514	GLU	CA-C-O	-11.11	108.78	120.55
2	B	59	VAL	O-C-N	11.10	132.64	121.87
1	A	372	ILE	O-C-N	11.09	132.63	121.87
4	M	129	VAL	CA-C-N	11.09	139.61	120.87
4	M	129	VAL	C-N-CA	11.09	139.61	120.87
3	S	149	ILE	O-C-N	11.09	132.62	121.87
2	B	455	ILE	O-C-N	11.08	132.62	121.87
1	A	516	ILE	CA-C-O	-11.08	109.11	120.85
1	A	188	VAL	O-C-N	11.08	133.79	121.94
1	A	447	PHE	O-C-N	11.08	134.05	122.09
1	A	312	ALA	CA-C-O	-11.07	108.81	120.55
4	M	284	SER	O-C-N	-11.07	108.35	121.31
1	A	552	ILE	O-C-N	11.07	132.74	121.89
2	B	531	ARG	CA-C-O	-11.07	108.68	120.42
1	A	429	VAL	O-C-N	11.06	132.60	121.87
2	B	615	SER	CA-C-O	-11.06	109.31	120.70
1	A	327	ASP	CA-C-O	-11.05	110.95	119.46
1	A	605	GLU	O-C-N	11.05	133.46	122.07
1	A	100	LEU	O-C-N	-11.05	109.55	122.15
1	A	495	ILE	O-C-N	11.05	133.21	121.83
1	A	298	ILE	O-C-N	-11.04	110.46	121.83
1	A	365	VAL	O-C-N	-11.04	110.72	121.87
2	B	444	THR	CA-C-O	11.04	132.49	120.24
1	A	574	ILE	O-C-N	11.03	132.70	121.89
2	B	334	MET	N-CA-C	11.03	125.84	112.38
2	B	210	CYS	CA-C-O	-11.03	109.34	120.70
2	B	337	THR	N-CA-C	-11.02	99.28	111.07
2	B	395	LYS	O-C-N	11.02	133.80	122.12
3	S	16	LEU	O-C-N	-11.01	109.89	123.44
3	S	37	GLU	CA-C-O	-11.01	108.75	120.42
1	A	253	ILE	CA-C-O	-11.01	109.50	120.95
1	A	635	ALA	CA-C-O	-11.01	109.27	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	589	SER	CA-C-O	-11.00	109.37	120.70
1	A	514	GLU	O-C-N	11.00	133.78	122.12
1	A	611	LEU	CA-C-O	-11.00	108.77	120.42
1	A	271	ARG	O-C-N	10.98	133.76	122.12
2	B	611	ALA	O-C-N	10.98	133.76	122.12
1	A	204	VAL	CA-C-N	-10.97	103.64	120.31
1	A	204	VAL	C-N-CA	-10.97	103.64	120.31
2	B	355	ASN	CA-C-O	-10.97	107.36	119.97
2	B	552	SER	CA-C-O	-10.96	109.31	120.82
2	B	272	GLY	N-CA-C	-10.96	97.55	114.10
4	M	5	PHE	O-C-N	-10.96	109.99	123.36
2	B	607	ILE	O-C-N	10.96	133.12	121.83
3	S	13	GLN	CA-C-O	10.96	130.38	120.19
1	A	451	ASN	O-C-N	10.95	133.73	122.12
3	S	98	ILE	O-C-N	10.95	136.29	121.84
2	B	596	LEU	CA-C-O	-10.94	109.51	121.00
1	A	177	ILE	CA-C-O	-10.94	109.00	120.71
1	A	216	SER	CA-C-O	-10.94	108.95	120.55
1	A	166	LEU	O-C-N	10.94	133.71	122.12
1	A	445	ASN	N-CA-C	-10.94	97.25	112.45
1	A	599	ARG	CA-C-O	-10.94	107.95	120.20
2	B	147	MET	CA-C-N	-10.93	102.11	120.68
2	B	147	MET	C-N-CA	-10.93	102.11	120.68
2	B	467	VAL	O-C-N	10.92	133.08	121.83
3	S	100	ASP	O-C-N	10.92	137.06	122.43
1	A	254	ILE	CA-C-O	-10.91	109.60	121.17
2	B	356	LYS	O-C-N	10.91	133.69	122.12
2	B	595	VAL	CA-C-O	-10.91	108.94	121.05
1	A	555	LEU	CA-C-O	-10.90	109.37	120.82
3	S	32	LEU	CA-C-O	-10.90	107.43	119.97
4	M	261	ASN	CA-C-N	-10.90	107.63	123.11
4	M	261	ASN	C-N-CA	-10.90	107.63	123.11
1	A	274	LEU	CA-C-N	-10.90	106.19	120.58
1	A	274	LEU	C-N-CA	-10.90	106.19	120.58
1	A	603	VAL	CA-C-O	-10.90	106.84	120.03
1	A	388	VAL	O-C-N	10.89	133.59	121.94
1	A	390	THR	CA-C-O	-10.89	109.00	120.55
2	B	120	ILE	CA-C-O	-10.89	108.55	121.18
1	A	330	LEU	O-C-N	10.89	135.66	122.27
2	B	391	ALA	CA-C-O	-10.88	109.26	120.90
1	A	156	PRO	CA-C-N	-10.88	104.84	120.29
1	A	156	PRO	C-N-CA	-10.88	104.84	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	392	MET	O-C-N	10.88	133.65	122.12
2	B	362	ALA	O-C-N	10.88	133.65	122.12
1	A	501	ASN	CA-C-N	10.87	135.93	120.28
1	A	501	ASN	C-N-CA	10.87	135.93	120.28
2	B	366	LEU	CA-C-O	10.85	132.05	120.55
1	A	311	THR	O-C-N	10.85	134.52	122.15
1	A	67	LYS	O-C-N	10.85	133.62	122.12
2	B	212	VAL	O-C-N	-10.84	108.72	121.94
2	B	344	VAL	O-C-N	10.84	133.10	121.94
1	A	517	TRP	O-C-N	10.84	133.79	122.09
4	M	335	SER	O-C-N	10.84	136.57	123.24
4	M	4	SER	CA-C-O	10.83	134.12	121.44
1	A	387	ILE	CA-C-O	-10.83	109.37	120.85
3	S	29	LYS	CA-C-O	-10.83	109.55	120.70
1	A	91	ILE	CA-C-O	-10.83	109.12	120.71
1	A	516	ILE	O-C-N	10.82	132.98	121.83
2	B	137	PHE	O-C-N	10.82	133.59	122.12
2	B	507	ALA	O-C-N	10.82	133.34	122.09
1	A	515	CYS	O-C-N	10.82	133.59	122.12
1	A	146	ALA	CA-C-O	-10.81	109.09	120.55
1	A	383	ASN	CA-C-O	-10.80	109.10	120.55
1	A	613	ALA	CA-C-O	-10.80	108.99	120.55
1	A	562	TRP	CA-C-O	-10.80	109.19	121.07
2	B	325	LEU	O-C-N	-10.80	107.56	122.46
2	B	426	GLU	CA-C-O	-10.79	109.49	120.82
1	A	461	CYS	CA-C-N	-10.78	102.36	120.68
1	A	461	CYS	C-N-CA	-10.78	102.36	120.68
1	A	559	PHE	CA-C-O	-10.78	109.13	120.55
4	M	104	PHE	CA-C-N	10.78	142.12	121.54
4	M	104	PHE	C-N-CA	10.78	142.12	121.54
1	A	338	PHE	O-C-N	10.77	133.72	122.09
1	A	543	TYR	N-CA-C	10.76	126.44	110.52
2	B	274	PRO	CA-C-N	-10.75	101.70	122.02
2	B	274	PRO	C-N-CA	-10.75	101.70	122.02
2	B	544	THR	O-C-N	10.75	133.51	122.12
4	M	56	VAL	CA-C-O	-10.74	110.24	121.41
2	B	136	CYS	CA-C-O	-10.73	109.85	120.90
1	A	454	ILE	O-C-N	10.72	132.87	121.83
1	A	384	LEU	CA-C-O	-10.72	109.75	121.00
2	B	544	THR	CA-C-O	-10.72	109.19	120.55
1	A	218	ALA	O-C-N	10.71	134.76	122.22
1	A	608	ARG	O-C-N	10.71	133.47	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	145	ILE	O-C-N	10.70	133.03	121.90
2	B	412	PHE	O-C-N	10.70	133.46	122.12
4	M	75	TRP	O-C-N	-10.70	110.22	123.17
2	B	81	LEU	CA-C-N	-10.68	105.56	122.65
2	B	81	LEU	C-N-CA	-10.68	105.56	122.65
2	B	319	LEU	CA-C-O	-10.68	109.11	120.42
1	A	528	ASN	CA-C-O	10.66	135.76	120.51
3	S	4	ALA	O-C-N	-10.66	112.26	123.56
4	M	77	LEU	CA-C-O	10.66	133.15	121.11
3	S	84	TYR	CA-C-O	10.66	132.21	120.70
1	A	602	GLU	CA-C-O	-10.65	109.35	121.07
2	B	305	SER	O-C-N	10.65	133.04	122.07
4	M	3	LEU	CA-C-O	10.65	133.38	120.60
4	M	99	ILE	O-C-N	10.65	136.80	122.31
4	M	117	ASN	CA-C-O	-10.65	107.55	120.65
2	B	387	ASP	N-CA-C	10.65	125.62	110.07
2	B	174	ALA	O-C-N	-10.64	110.01	122.15
1	A	493	ALA	CA-C-O	-10.64	109.27	120.55
3	S	29	LYS	O-C-N	10.64	133.58	122.09
1	A	303	MET	N-CA-C	-10.64	98.83	112.23
4	M	105	ASP	CA-C-N	-10.64	101.22	121.54
4	M	105	ASP	C-N-CA	-10.64	101.22	121.54
1	A	334	SER	CA-C-O	-10.63	109.75	120.70
2	B	99	ARG	O-C-N	10.63	133.57	122.09
2	B	531	ARG	O-C-N	10.62	134.26	122.15
2	B	511	ILE	O-C-N	-10.62	111.32	121.94
3	S	168	GLY	N-CA-C	10.62	144.09	113.30
2	B	486	HIS	CA-C-O	-10.62	109.97	120.90
2	B	62	ALA	O-C-N	10.61	133.00	122.07
2	B	306	LEU	O-C-N	10.61	133.37	122.12
1	A	252	ILE	CA-C-O	-10.61	109.61	120.85
2	B	451	MET	CA-C-O	-10.60	109.18	120.63
4	M	53	HIS	O-C-N	-10.59	111.40	123.48
1	A	372	ILE	CA-C-O	-10.59	109.94	120.95
2	B	588	ILE	CA-C-O	-10.59	109.38	120.71
1	A	252	ILE	O-C-N	10.59	132.73	121.83
1	A	434	SER	CA-C-O	-10.59	109.33	120.55
2	B	589	SER	O-C-N	10.59	133.52	122.09
3	S	87	PHE	CA-C-O	10.59	132.13	120.70
1	A	558	VAL	O-C-N	10.58	132.91	121.90
1	A	579	LYS	O-C-N	10.58	132.97	122.07
4	M	282	VAL	N-CA-C	-10.58	100.03	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	169	VAL	CA-C-O	-10.57	108.38	120.96
2	B	429	VAL	O-C-N	10.57	132.55	121.87
2	B	346	THR	CA-C-O	-10.57	110.01	120.90
2	B	584	SER	CA-C-N	-10.57	100.70	121.41
2	B	584	SER	C-N-CA	-10.57	100.70	121.41
2	B	454	LEU	O-C-N	10.56	133.02	122.03
2	B	55	ASN	CA-C-N	10.56	134.43	120.28
2	B	55	ASN	C-N-CA	10.56	134.43	120.28
4	M	94	GLU	O-C-N	10.56	133.31	122.12
1	A	387	ILE	O-C-N	10.56	132.70	121.83
1	A	600	SER	O-C-N	10.55	133.43	122.03
2	B	396	ILE	CA-C-O	-10.54	109.99	121.17
1	A	479	ASN	CA-C-O	-10.54	109.38	120.55
4	M	7	ILE	CA-C-O	-10.54	109.05	121.28
3	S	153	VAL	CA-C-O	-10.53	109.09	120.47
1	A	612	GLU	O-C-N	10.53	135.22	122.27
2	B	340	ILE	CA-C-O	-10.53	109.36	121.05
2	B	512	VAL	O-C-N	10.52	132.49	121.87
2	B	613	MET	O-C-N	10.51	133.26	122.12
3	S	80	TYR	CA-C-O	10.50	135.12	120.52
2	B	60	ARG	CA-C-O	-10.50	109.31	120.55
2	B	610	ARG	O-C-N	10.50	132.88	122.07
2	B	27	THR	N-CA-C	10.50	122.80	111.36
1	A	394	GLN	O-C-N	10.49	134.49	122.22
1	A	609	LEU	CA-C-O	-10.49	110.09	120.90
2	B	157	THR	O-C-N	10.49	133.42	122.09
2	B	361	GLN	CA-C-O	-10.49	109.90	120.70
4	M	65	TYR	CA-C-N	-10.48	105.65	122.53
4	M	65	TYR	C-N-CA	-10.48	105.65	122.53
1	A	275	LEU	O-C-N	-10.48	110.33	120.70
2	B	142	LEU	O-C-N	-10.48	110.26	122.20
2	B	157	THR	CA-C-O	-10.47	109.91	120.70
1	A	492	ILE	O-C-N	10.47	132.79	121.90
1	A	568	GLU	N-CA-C	-10.47	99.87	111.28
1	A	296	ASN	O-C-N	10.47	133.22	122.12
2	B	290	SER	N-CA-C	10.47	126.05	113.28
3	S	53	THR	CA-C-N	-10.47	109.60	120.38
3	S	53	THR	C-N-CA	-10.47	109.60	120.38
2	B	343	LEU	O-C-N	10.46	133.20	122.12
3	S	146	VAL	CA-C-O	-10.46	109.38	120.57
2	B	595	VAL	O-C-N	10.45	132.77	121.90
1	A	331	ARG	O-C-N	10.45	132.83	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	539	ASN	O-C-N	-10.44	108.92	122.39
2	B	151	ALA	O-C-N	10.44	133.33	121.32
2	B	172	GLU	O-C-N	-10.44	111.05	122.12
2	B	101	ILE	O-C-N	10.44	132.76	121.90
1	A	146	ALA	O-C-N	10.44	133.18	122.12
1	A	560	SER	CA-C-O	-10.44	109.86	120.82
1	A	338	PHE	CA-C-O	-10.44	109.95	120.70
2	B	513	TRP	O-C-N	10.43	133.36	122.09
2	B	296	ASP	O-C-N	10.43	133.31	121.32
2	B	302	PHE	O-C-N	10.43	133.29	122.03
1	A	533	ILE	CA-C-O	-10.43	107.39	121.15
1	A	367	ILE	O-C-N	10.42	135.60	121.84
2	B	115	LEU	O-C-N	10.42	135.09	122.27
1	A	140	VAL	O-C-N	-10.42	111.76	121.87
2	B	396	ILE	O-C-N	10.42	132.12	121.91
3	S	36	TYR	CA-C-O	-10.42	109.38	120.42
1	A	624	LEU	O-C-N	10.41	134.02	122.15
2	B	323	ASN	CA-C-O	-10.41	108.69	120.24
1	A	428	MET	O-C-N	10.40	132.78	122.07
2	B	523	PHE	O-C-N	-10.40	108.76	122.59
2	B	525	ILE	O-C-N	10.40	132.35	122.06
4	M	21	GLY	N-CA-C	-10.38	95.99	112.61
1	A	461	CYS	O-C-N	-10.38	108.62	122.43
2	B	219	TYR	N-CA-C	10.38	125.33	112.87
2	B	102	HIS	CA-C-N	-10.38	105.55	120.29
2	B	102	HIS	C-N-CA	-10.38	105.55	120.29
3	S	21	THR	O-C-N	10.38	129.25	121.88
2	B	322	CYS	CA-C-O	-10.37	108.04	119.97
1	A	438	ALA	N-CA-C	10.37	124.46	110.35
2	B	230	PHE	N-CA-C	-10.37	99.79	111.71
2	B	361	GLN	O-C-N	10.36	133.28	122.09
2	B	450	VAL	O-C-N	10.36	133.03	121.94
3	S	99	LEU	O-C-N	10.36	133.96	122.15
4	M	92	PHE	O-C-N	10.35	137.06	122.36
2	B	78	ASP	O-C-N	-10.35	111.42	123.22
2	B	430	ILE	O-C-N	10.35	132.59	121.94
4	M	429	ASP	CA-C-N	-10.35	106.34	121.24
4	M	429	ASP	C-N-CA	-10.35	106.34	121.24
3	S	28	GLN	O-C-N	10.34	134.99	122.27
4	M	60	LEU	N-CA-C	-10.34	95.24	110.23
2	B	135	ARG	O-C-N	10.34	133.08	122.12
3	S	104	THR	O-C-N	10.33	136.62	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	332	TYR	O-C-N	10.33	132.83	122.09
2	B	549	LEU	O-C-N	10.33	132.71	122.07
2	B	364	HIS	CA-C-O	-10.32	109.98	120.82
2	B	540	GLU	N-CA-C	10.32	125.80	110.52
3	S	108	SER	O-C-N	10.32	135.65	122.23
1	A	94	VAL	CA-C-O	10.31	131.39	120.25
4	M	282	VAL	CA-C-N	-10.31	109.05	122.77
4	M	282	VAL	C-N-CA	-10.31	109.05	122.77
2	B	547	GLN	CA-C-O	-10.31	110.08	120.70
1	A	270	LEU	O-C-N	10.30	135.63	122.23
1	A	385	LYS	O-C-N	10.30	133.04	122.12
4	M	117	ASN	CA-C-N	10.30	134.49	120.38
4	M	117	ASN	C-N-CA	10.30	134.49	120.38
3	S	161	GLU	O-C-N	-10.29	108.36	122.46
1	A	233	PHE	N-CA-C	-10.29	101.04	114.31
1	A	562	TRP	O-C-N	10.29	133.09	122.08
2	B	134	LEU	CA-C-O	-10.29	109.52	120.42
4	M	262	THR	CA-C-N	-10.29	101.89	121.54
4	M	262	THR	C-N-CA	-10.29	101.89	121.54
1	A	142	LYS	CA-C-O	-10.29	109.89	120.90
2	B	426	GLU	O-C-N	10.28	132.66	122.07
1	A	256	LEU	O-C-N	10.28	133.92	122.20
2	B	493	LEU	CA-C-O	-10.28	108.83	120.24
1	A	200	PHE	O-C-N	10.27	133.00	122.12
1	A	67	LYS	CA-C-O	-10.26	109.67	120.55
2	B	65	ARG	O-C-N	10.26	133.00	122.12
2	B	350	THR	N-CA-C	10.26	125.05	108.63
2	B	250	GLU	CA-C-O	-10.25	110.06	120.82
2	B	616	SER	CA-C-O	-10.25	109.93	120.90
4	M	372	ILE	N-CA-C	10.25	117.17	106.21
2	B	431	MET	CA-C-O	-10.24	109.70	120.55
4	M	266	ASP	CA-C-N	10.24	134.24	120.63
4	M	266	ASP	C-N-CA	10.24	134.24	120.63
2	B	344	VAL	CA-C-O	-10.23	110.34	121.29
3	S	132	LEU	O-C-N	10.23	134.86	122.27
1	A	398	GLU	N-CA-C	10.23	125.33	113.15
2	B	116	THR	O-C-N	10.23	133.08	122.03
2	B	166	SER	CA-C-N	10.23	134.81	120.29
2	B	166	SER	C-N-CA	10.23	134.81	120.29
2	B	414	GLU	O-C-N	10.23	133.13	122.09
3	S	74	GLN	CA-C-O	10.22	131.57	120.43
1	A	400	VAL	CA-C-O	-10.22	110.01	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	515	PHE	O-C-N	-10.22	110.26	122.22
3	S	33	GLU	O-C-N	10.22	133.80	122.15
1	A	159	ALA	O-C-N	10.21	132.95	122.12
1	A	517	TRP	CA-C-O	-10.22	110.18	120.70
1	A	431	VAL	CA-C-O	-10.21	109.71	121.05
1	A	609	LEU	O-C-N	10.20	133.05	122.03
1	A	253	ILE	O-C-N	10.20	131.76	121.87
2	B	189	HIS	N-CA-C	10.20	122.40	111.28
2	B	455	ILE	CA-C-O	-10.20	110.34	120.95
1	A	573	GLU	N-CA-C	-10.19	100.13	111.14
1	A	319	LEU	CA-C-O	10.19	131.55	120.24
1	A	623	MET	O-C-N	10.19	133.77	122.15
1	A	604	LEU	O-C-N	10.17	132.91	122.12
2	B	48	VAL	O-C-N	10.17	131.74	121.87
3	S	129	GLU	O-C-N	10.17	133.07	122.09
1	A	554	ALA	O-C-N	10.16	132.89	122.12
2	B	452	LYS	O-C-N	10.16	132.89	122.12
1	A	330	LEU	CA-C-O	-10.16	108.29	119.97
2	B	233	TYR	O-C-N	10.15	132.53	122.07
2	B	251	LEU	O-C-N	10.15	132.58	122.03
2	B	337	THR	O-C-N	10.15	132.52	122.07
1	A	594	PHE	CA-C-O	-10.14	109.67	120.63
1	A	577	VAL	CA-C-O	-10.14	110.10	120.85
2	B	454	LEU	CA-C-O	-10.14	110.36	121.00
1	A	184	ALA	CA-C-O	-10.13	110.26	120.70
3	S	103	GLN	O-C-N	10.13	135.56	122.39
1	A	392	MET	CA-C-O	-10.13	109.82	120.55
2	B	608	ARG	CA-C-O	-10.12	110.27	120.70
2	B	86	VAL	CA-C-O	-10.12	110.12	120.85
2	B	450	VAL	CA-C-O	-10.12	109.44	121.18
2	B	341	GLU	O-C-N	10.12	132.84	122.12
2	B	510	GLY	CA-C-N	10.11	133.65	120.60
2	B	510	GLY	C-N-CA	10.11	133.65	120.60
2	B	592	TYR	CA-C-O	-10.11	109.01	120.24
4	M	122	SER	O-C-N	10.11	132.95	122.03
3	S	105	PHE	CA-C-O	-10.11	109.73	120.55
4	M	128	CYS	CA-C-N	-10.11	103.77	121.97
4	M	128	CYS	C-N-CA	-10.11	103.77	121.97
1	A	182	ILE	CA-C-O	-10.10	109.83	121.05
2	B	605	PHE	O-C-N	10.10	132.60	122.09
2	B	320	SER	CA-C-O	-10.10	110.30	120.70
1	A	441	TYR	CA-C-O	10.10	134.95	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	313	MET	O-C-N	10.10	132.47	122.07
1	A	257	LEU	O-C-N	10.09	133.66	122.15
1	A	380	ASP	CA-C-O	-10.09	109.63	121.44
1	A	370	LYS	CA-C-O	-10.09	108.70	120.10
4	M	72	LEU	CA-C-N	10.09	140.81	121.54
4	M	72	LEU	C-N-CA	10.09	140.81	121.54
2	B	209	SER	O-C-N	10.09	132.81	122.12
1	A	584	PHE	O-C-N	10.09	132.46	122.07
4	M	425	THR	N-CA-C	-10.08	93.02	109.96
1	A	391	LEU	CA-C-O	10.08	131.43	120.24
1	A	598	GLU	CA-C-O	-10.08	109.87	120.55
2	B	142	LEU	CA-C-N	-10.08	103.35	120.58
2	B	142	LEU	C-N-CA	-10.08	103.35	120.58
2	B	417	TYR	O-C-N	10.07	132.97	122.09
2	B	553	ALA	O-C-N	10.07	132.44	122.07
1	A	100	LEU	N-CA-C	-10.07	100.38	111.36
1	A	166	LEU	CA-C-O	-10.07	109.88	120.55
2	B	342	ALA	O-C-N	10.06	132.90	122.03
1	A	244	LEU	CA-C-O	10.06	131.46	120.20
1	A	534	LYS	O-C-N	-10.06	110.48	122.95
4	M	307	SER	CA-C-O	-10.06	110.44	121.00
2	B	612	ARG	O-C-N	10.05	132.95	122.09
2	B	409	LYS	O-C-N	10.05	132.77	122.12
1	A	603	VAL	O-C-N	10.05	133.51	122.06
3	S	129	GLU	CA-C-O	-10.05	110.35	120.70
1	A	339	TYR	O-C-N	10.04	132.53	122.09
1	A	142	LYS	O-C-N	10.04	132.53	122.09
2	B	83	PHE	O-C-N	10.04	135.85	122.30
2	B	205	PRO	O-C-N	-10.04	109.27	122.22
3	S	130	SER	O-C-N	10.04	132.76	122.12
1	A	527	GLU	CA-C-N	10.03	140.70	121.54
1	A	527	GLU	C-N-CA	10.03	140.70	121.54
1	A	223	CYS	CA-C-O	-10.03	110.37	120.70
2	B	447	GLU	O-C-N	10.02	133.63	122.20
1	A	400	VAL	O-C-N	10.02	132.15	121.83
3	S	137	GLN	CA-C-O	10.01	132.16	121.15
2	B	46	GLN	O-C-N	10.00	134.57	122.27
2	B	615	SER	O-C-N	10.00	132.89	122.09
1	A	336	ILE	O-C-N	10.00	132.30	121.90
2	B	169	VAL	O-C-N	9.99	134.89	121.90
1	A	610	SER	O-C-N	9.99	133.59	122.20
2	B	507	ALA	CA-C-O	-9.99	110.21	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	110	SER	CA-C-O	-9.98	109.38	121.36
3	S	95	GLU	CA-C-O	-9.98	109.85	120.63
2	B	97	VAL	CA-C-O	-9.98	109.97	121.05
2	B	509	ALA	CA-C-O	-9.98	109.97	120.55
1	A	122	MET	CA-C-O	-9.97	109.98	120.55
1	A	364	ASP	O-C-N	9.97	135.28	123.02
2	B	494	ALA	CA-C-O	-9.97	109.04	120.20
2	B	393	ILE	O-C-N	9.96	132.09	121.83
4	M	306	LEU	CA-C-N	-9.96	107.51	120.65
4	M	306	LEU	C-N-CA	-9.96	107.51	120.65
1	A	576	MET	O-C-N	9.95	132.67	122.12
1	A	335	CYS	O-C-N	9.95	132.66	122.12
1	A	599	ARG	O-C-N	9.95	133.54	122.20
2	B	151	ALA	CA-C-O	-9.95	106.53	120.16
1	A	474	GLY	CA-C-O	-9.94	110.12	120.66
1	A	596	VAL	CA-C-O	-9.94	109.74	120.47
1	A	186	PHE	O-C-N	9.93	132.81	122.09
1	A	353	ASP	O-C-N	9.93	132.65	122.12
2	B	604	GLU	CA-C-N	9.93	133.95	120.54
2	B	604	GLU	C-N-CA	9.93	133.95	120.54
2	B	594	ALA	O-C-N	9.93	133.47	122.15
4	M	458	LEU	CA-C-N	9.93	139.50	122.82
4	M	458	LEU	C-N-CA	9.93	139.50	122.82
4	M	45	SER	N-CA-C	-9.92	99.69	113.37
1	A	471	SER	O-C-N	9.91	133.45	122.15
1	A	69	ASN	CA-C-O	-9.91	109.92	120.42
4	M	381	ASN	N-CA-C	-9.91	94.65	109.81
2	B	150	LEU	CA-C-O	-9.90	107.45	119.43
1	A	214	VAL	O-C-N	9.90	132.03	121.83
1	A	316	LEU	O-C-N	9.90	132.78	122.09
4	M	426	LYS	N-CA-C	-9.90	94.78	109.62
2	B	346	THR	O-C-N	9.89	132.71	122.03
2	B	389	ILE	N-CA-C	-9.89	101.23	110.53
1	A	411	GLU	CA-C-N	9.89	133.53	120.28
1	A	411	GLU	C-N-CA	9.89	133.53	120.28
1	A	427	LYS	CA-C-O	-9.88	110.07	120.55
2	B	64	LYS	O-C-N	9.88	132.70	122.03
2	B	66	ILE	CA-C-O	-9.88	110.00	120.57
2	B	571	SER	CA-C-O	-9.88	110.73	121.99
2	B	593	ASN	O-C-N	9.88	132.59	122.12
1	A	156	PRO	O-C-N	-9.88	110.22	122.17
1	A	458	ALA	O-C-N	9.87	132.58	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	249	ILE	CA-C-O	-9.87	110.15	120.71
4	M	331	LEU	N-CA-C	-9.87	97.50	110.43
1	A	497	LYS	CA-C-O	-9.86	109.98	120.63
4	M	61	GLU	O-C-N	9.86	134.41	123.27
2	B	237	ILE	O-C-N	-9.86	110.25	122.57
1	A	355	LEU	O-C-N	9.85	134.39	122.27
2	B	417	TYR	CA-C-O	-9.85	110.55	120.70
1	A	550	VAL	O-C-N	9.85	132.93	121.80
2	B	58	GLU	O-C-N	9.85	132.56	122.12
2	B	79	VAL	O-C-N	9.84	132.04	122.20
1	A	490	VAL	O-C-N	9.84	132.13	121.90
2	B	223	LEU	CA-C-O	9.83	131.83	119.05
3	S	30	LEU	O-C-N	9.83	133.41	122.20
1	A	346	THR	O-C-N	-9.83	109.61	122.39
4	M	379	LEU	CA-C-O	9.83	130.97	120.36
2	B	444	THR	O-C-N	-9.83	109.46	122.23
2	B	314	ASN	CA-C-N	9.82	130.87	119.47
2	B	314	ASN	C-N-CA	9.82	130.87	119.47
4	M	305	ASP	CA-C-O	-9.82	110.53	122.41
2	B	383	VAL	N-CA-C	9.82	123.07	108.54
4	M	406	GLY	N-CA-C	-9.82	89.92	113.18
1	A	312	ALA	O-C-N	9.81	132.52	122.12
2	B	351	GLU	CA-C-O	9.81	131.19	120.10
1	A	346	THR	CA-C-O	9.81	131.36	119.49
2	B	303	LEU	O-C-N	9.81	132.29	122.09
1	A	110	ALA	CA-C-O	9.80	131.18	120.10
2	B	35	TYR	O-C-N	9.80	135.63	122.59
2	B	245	GLN	CA-C-O	-9.80	108.70	119.97
2	B	465	ALA	CA-C-O	-9.80	110.60	120.70
2	B	324	ALA	O-C-N	9.80	132.50	122.12
2	B	550	VAL	CA-C-O	-9.80	110.76	120.95
2	B	342	ALA	CA-C-O	-9.80	110.81	120.90
4	M	277	GLU	O-C-N	-9.80	111.71	123.27
2	B	247	TYR	O-C-N	9.79	132.16	122.07
1	A	265	GLN	O-C-N	-9.78	112.07	123.22
1	A	457	LEU	O-C-N	9.78	133.66	122.22
2	B	250	GLU	O-C-N	9.78	132.14	122.07
4	M	110	SER	O-C-N	9.78	134.01	123.06
2	B	428	VAL	CA-C-O	-9.78	108.25	121.15
1	A	186	PHE	CA-C-O	-9.77	110.64	120.70
1	A	491	THR	O-C-N	9.77	132.48	122.12
1	A	598	GLU	O-C-N	9.77	132.47	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	77	LEU	CA-C-O	-9.76	110.07	120.42
4	M	104	PHE	O-C-N	-9.76	109.61	122.59
1	A	163	ALA	CA-C-O	9.75	131.16	120.63
4	M	424	PHE	N-CA-C	-9.75	93.27	109.46
2	B	126	SER	CA-C-O	9.74	131.28	119.49
4	M	55	MET	CA-C-O	-9.74	110.06	122.14
1	A	385	LYS	CA-C-O	-9.74	110.22	120.55
2	B	134	LEU	O-C-N	9.74	133.26	122.15
1	A	139	ASP	CA-C-O	-9.74	108.77	119.97
2	B	173	VAL	O-C-N	9.74	131.71	121.87
2	B	350	THR	CA-C-N	9.74	134.30	120.28
2	B	350	THR	C-N-CA	9.74	134.30	120.28
2	B	136	CYS	O-C-N	9.73	132.54	122.03
2	B	178	ILE	CA-C-O	-9.73	108.61	120.78
2	B	609	ASP	CA-C-O	-9.73	110.12	120.63
3	S	31	LEU	O-C-N	9.73	134.88	122.23
2	B	204	ASP	CA-C-N	9.73	129.99	119.28
2	B	204	ASP	C-N-CA	9.73	129.99	119.28
4	M	18	TYR	CA-C-O	9.73	131.88	120.99
2	B	612	ARG	CA-C-O	-9.72	110.68	120.70
1	A	390	THR	O-C-N	9.72	132.42	122.12
1	A	258	LYS	O-C-N	9.71	133.22	122.15
2	B	58	GLU	CA-C-O	-9.71	110.26	120.55
2	B	255	TYR	CA-C-O	-9.71	110.05	120.92
1	A	155	THR	O-C-N	9.71	132.40	121.53
1	A	337	LEU	CA-C-O	-9.71	109.13	120.10
2	B	267	ASP	O-C-N	-9.71	111.50	123.05
1	A	611	LEU	O-C-N	9.70	133.21	122.15
2	B	139	LEU	O-C-N	9.70	133.57	122.22
2	B	108	PHE	O-C-N	-9.70	109.69	122.59
1	A	444	VAL	N-CA-CB	9.69	121.10	110.53
3	S	131	VAL	O-C-N	9.69	131.81	121.83
3	S	43	ASN	CA-C-N	-9.69	106.33	120.28
3	S	43	ASN	C-N-CA	-9.69	106.33	120.28
1	A	297	CYS	O-C-N	-9.69	112.09	122.07
1	A	578	LEU	O-C-N	9.69	132.39	122.12
3	S	18	LYS	CA-C-O	9.69	131.16	120.70
1	A	557	LYS	O-C-N	9.69	132.39	122.12
1	A	225	LEU	O-C-N	9.69	133.55	122.22
2	B	63	MET	CA-C-O	-9.68	109.16	120.10
2	B	247	TYR	CA-C-O	-9.68	110.66	120.82
2	B	105	LEU	O-C-N	-9.67	109.72	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	233	TYR	CA-C-O	-9.67	110.66	120.82
2	B	244	SER	CA-C-O	-9.67	107.32	119.31
2	B	546	CYS	CA-C-O	-9.67	110.30	120.55
3	S	116	VAL	O-C-N	9.67	133.70	123.26
4	M	136	VAL	CA-C-O	9.67	132.00	121.36
2	B	189	HIS	O-C-N	9.66	132.37	122.12
2	B	475	ILE	CA-C-O	-9.66	108.70	120.78
1	A	122	MET	O-C-N	9.66	132.36	122.12
2	B	457	HIS	CA-C-N	-9.66	107.89	120.44
2	B	457	HIS	C-N-CA	-9.66	107.89	120.44
1	A	217	ALA	O-C-N	9.65	132.01	122.07
2	B	211	ALA	CA-C-O	-9.65	107.81	119.49
2	B	358	MET	O-C-N	9.65	132.35	122.12
2	B	453	TRP	O-C-N	9.65	133.16	122.15
2	B	557	SER	O-C-N	-9.65	109.75	122.59
3	S	158	LYS	O-C-N	9.65	135.77	122.46
2	B	357	GLU	CA-C-O	-9.64	110.20	120.42
2	B	549	LEU	CA-C-O	-9.64	110.70	120.82
2	B	237	ILE	CA-C-N	-9.63	103.14	121.54
2	B	237	ILE	C-N-CA	-9.63	103.14	121.54
1	A	426	ILE	O-C-N	9.63	131.91	121.90
3	S	167	ILE	CA-C-N	-9.63	104.36	121.70
3	S	167	ILE	C-N-CA	-9.63	104.36	121.70
4	M	124	ILE	O-C-N	9.63	133.04	122.06
1	A	74	LEU	CA-C-O	-9.62	110.72	120.82
1	A	75	THR	O-C-N	9.62	131.98	122.07
2	B	190	GLU	O-C-N	9.62	132.32	122.12
4	M	81	SER	O-C-N	-9.62	109.80	122.59
2	B	253	ILE	CA-C-O	-9.62	109.79	120.46
2	B	551	LEU	CA-C-O	-9.61	108.44	119.79
2	B	117	LEU	CA-C-O	-9.60	110.37	120.55
1	A	579	LYS	CA-C-O	-9.60	110.74	120.82
4	M	263	MET	CA-C-N	9.60	138.80	120.66
4	M	263	MET	C-N-CA	9.60	138.80	120.66
4	M	6	TYR	CA-C-O	9.59	132.66	121.44
1	A	108	LEU	O-C-N	9.59	132.28	122.12
1	A	281	LEU	O-C-N	-9.59	110.48	122.27
1	A	577	VAL	O-C-N	9.59	131.70	121.83
2	B	393	ILE	CA-C-O	-9.59	110.69	120.85
2	B	185	LYS	O-C-N	-9.57	111.28	122.20
1	A	437	SER	N-CA-C	9.57	124.96	113.28
1	A	147	LEU	CA-C-O	-9.57	110.28	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	125	THR	O-C-N	9.56	132.35	122.03
4	M	396	GLN	CA-C-O	9.56	130.37	120.24
1	A	386	ALA	O-C-N	9.55	133.03	122.15
1	A	556	VAL	CA-C-O	-9.55	111.02	120.95
1	A	458	ALA	CA-C-O	-9.54	110.43	120.55
2	B	126	SER	O-C-N	-9.54	110.00	122.39
1	A	92	LEU	CA-C-O	-9.53	110.81	120.82
2	B	59	VAL	CA-C-O	-9.53	111.04	120.95
2	B	545	ARG	CA-C-O	-9.53	110.45	120.55
2	B	530	LEU	CA-C-O	-9.53	109.34	120.10
1	A	309	PHE	O-C-N	9.52	132.21	122.12
2	B	560	ILE	O-C-N	-9.52	110.67	122.57
1	A	323	CYS	N-CA-C	9.52	124.29	112.87
1	A	426	ILE	CA-C-O	-9.51	110.49	121.05
1	A	553	LEU	CA-C-O	-9.51	110.90	120.70
2	B	62	ALA	CA-C-O	-9.51	110.83	120.82
1	A	597	GLN	CA-C-O	-9.51	110.84	120.82
2	B	355	ASN	O-C-N	9.51	133.96	122.27
2	B	500	GLN	N-CA-C	9.50	125.10	108.56
3	S	130	SER	CA-C-O	-9.50	110.47	120.55
2	B	86	VAL	O-C-N	9.50	131.62	121.83
3	S	108	SER	CA-C-O	-9.50	109.69	120.24
1	A	477	PHE	O-C-N	9.49	133.33	122.22
2	B	135	ARG	CA-C-O	-9.49	110.49	120.55
4	M	290	PHE	N-CA-C	-9.49	94.51	109.50
2	B	238	LYS	CA-C-N	9.49	136.56	120.72
2	B	238	LYS	C-N-CA	9.49	136.56	120.72
1	A	569	ASP	CA-C-O	-9.48	106.95	120.51
2	B	513	TRP	CA-C-O	-9.48	110.93	120.70
1	A	452	ALA	O-C-N	9.47	132.16	122.12
2	B	394	TRP	CA-C-O	-9.47	110.38	120.42
2	B	132	SER	O-C-N	-9.47	110.08	122.39
2	B	216	LYS	CA-C-O	9.46	131.02	119.38
2	B	477	MET	CA-C-O	-9.46	110.52	120.55
1	A	608	ARG	CA-C-O	-9.45	110.53	120.55
2	B	173	VAL	CA-C-O	-9.45	110.46	120.57
1	A	304	LEU	O-C-N	-9.44	109.68	122.33
4	M	227	GLU	CA-C-O	9.44	130.40	120.30
2	B	300	ASP	O-C-N	9.44	131.79	122.07
1	A	473	ILE	CA-C-O	-9.44	110.47	120.57
1	A	552	ILE	CA-C-O	-9.44	111.24	121.05
1	A	147	LEU	O-C-N	9.43	132.90	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	437	SER	O-C-N	9.43	132.28	122.09
2	B	546	CYS	O-C-N	9.43	132.12	122.12
1	A	121	LEU	O-C-N	9.43	132.27	122.09
1	A	575	LYS	O-C-N	9.42	131.78	122.07
2	B	586	SER	O-C-N	9.42	132.16	122.08
2	B	100	LEU	O-C-N	9.42	133.24	122.22
2	B	553	ALA	CA-C-O	-9.42	110.93	120.82
1	A	634	ASN	CA-C-O	-9.41	109.15	119.97
2	B	437	SER	CA-C-O	-9.39	111.03	120.70
1	A	75	THR	CA-C-O	-9.39	110.96	120.82
1	A	519	LEU	O-C-N	-9.39	110.72	122.27
4	M	93	LEU	CA-C-O	-9.39	111.03	120.70
4	M	386	PHE	CA-C-O	9.39	130.26	120.40
2	B	462	ASN	CA-C-N	-9.39	106.68	122.64
2	B	462	ASN	C-N-CA	-9.39	106.68	122.64
1	A	580	GLU	O-C-N	9.38	131.73	122.07
2	B	183	ALA	N-CA-C	9.38	130.78	110.80
1	A	277	LYS	CA-C-O	-9.38	111.58	122.37
2	B	96	LYS	O-C-N	9.38	132.06	122.12
1	A	254	ILE	O-C-N	9.38	131.10	121.91
2	B	391	ALA	O-C-N	9.38	131.84	122.09
1	A	554	ALA	CA-C-O	-9.37	110.62	120.55
4	M	90	PHE	O-C-N	9.37	132.84	122.15
2	B	63	MET	O-C-N	9.37	133.18	122.22
2	B	485	LYS	N-CA-C	-9.37	100.74	113.30
2	B	596	LEU	O-C-N	9.37	131.78	122.03
2	B	414	GLU	CA-C-O	-9.37	111.05	120.70
2	B	236	ILE	CA-C-O	-9.37	110.55	120.57
2	B	545	ARG	O-C-N	9.37	132.05	122.12
1	A	381	GLU	O-C-N	-9.36	111.98	122.09
1	A	369	SER	O-C-N	9.35	132.19	122.09
1	A	588	LEU	O-C-N	-9.35	110.15	122.59
2	B	514	LEU	CA-C-O	-9.35	110.08	121.02
1	A	152	THR	N-CA-C	-9.35	102.03	113.15
2	B	360	LEU	CA-C-O	-9.35	109.22	119.97
3	S	148	ARG	O-C-N	9.34	134.38	122.23
1	A	371	ALA	O-C-N	9.34	132.18	122.09
1	A	425	LYS	CA-C-O	-9.34	109.55	120.10
1	A	512	LEU	CA-C-O	-9.34	110.52	120.42
1	A	94	VAL	O-C-N	-9.33	109.04	121.82
1	A	475	GLU	O-C-N	9.33	133.14	122.22
2	B	47	LEU	CA-C-O	-9.33	111.00	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	568	VAL	CA-C-N	9.33	138.74	122.32
2	B	568	VAL	C-N-CA	9.33	138.74	122.32
1	A	293	GLU	O-C-N	9.32	131.67	122.07
1	A	549	GLU	CA-C-O	-9.32	110.53	120.42
3	S	16	LEU	CA-C-O	9.32	132.79	120.21
1	A	515	CYS	CA-C-O	-9.32	110.67	120.55
4	M	232	HIS	O-C-N	-9.32	112.60	123.22
4	M	135	ASN	CA-C-N	9.31	132.98	120.50
4	M	135	ASN	C-N-CA	9.31	132.98	120.50
1	A	336	ILE	CA-C-O	-9.31	110.72	121.05
1	A	230	PRO	CA-C-O	-9.30	105.88	119.18
2	B	359	LEU	CA-C-O	-9.30	109.91	120.24
2	B	132	SER	CA-C-O	9.30	130.74	119.49
2	B	340	ILE	O-C-N	9.30	131.57	121.90
4	M	107	ASP	CA-C-O	-9.30	107.22	120.51
2	B	64	LYS	CA-C-O	-9.29	111.33	120.90
2	B	448	SER	O-C-N	9.29	131.97	122.12
2	B	469	ASP	O-C-N	9.29	132.13	122.09
3	S	128	LEU	O-C-N	9.29	133.70	122.27
4	M	385	ARG	CA-C-O	9.29	131.74	120.60
1	A	553	LEU	O-C-N	9.28	132.11	122.09
1	A	101	GLN	CA-C-O	-9.28	111.15	120.70
2	B	439	CYS	CA-C-O	-9.28	109.34	120.56
2	B	587	ARG	O-C-N	9.28	132.72	122.15
1	A	389	GLN	CA-C-O	-9.27	110.72	120.55
2	B	153	ILE	O-C-N	9.27	134.16	122.57
2	B	256	CYS	O-C-N	-9.27	112.29	122.12
2	B	394	TRP	O-C-N	9.27	132.72	122.15
1	A	405	THR	N-CA-C	9.27	130.54	110.80
1	A	511	VAL	CA-C-O	-9.27	110.66	120.57
2	B	466	SER	O-C-N	9.27	131.94	122.12
1	A	375	VAL	CA-C-O	9.26	130.68	121.05
2	B	105	LEU	CA-C-O	9.26	133.75	120.51
2	B	512	VAL	CA-C-O	-9.26	110.67	120.57
2	B	61	ASP	CA-C-O	-9.25	111.00	120.90
2	B	181	TYR	O-C-N	-9.25	112.31	122.12
4	M	385	ARG	O-C-N	-9.24	112.15	123.33
1	A	216	SER	O-C-N	9.23	131.91	122.12
1	A	255	ARG	CA-C-O	-9.23	111.13	120.82
4	M	123	LEU	O-C-N	9.23	133.02	122.22
2	B	416	LYS	CA-C-O	-9.23	109.86	120.20
2	B	521	ILE	CA-C-N	-9.23	104.44	122.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	521	ILE	C-N-CA	-9.23	104.44	122.62
2	B	528	ASP	O-C-N	9.23	134.86	122.49
3	S	84	TYR	O-C-N	-9.23	111.23	123.23
4	M	377	LYS	N-CA-C	9.22	125.67	111.56
1	A	279	LEU	O-C-N	-9.22	110.33	122.59
4	M	321	GLY	CA-C-N	-9.22	107.51	122.26
4	M	321	GLY	C-N-CA	-9.22	107.51	122.26
1	A	538	GLU	CA-C-N	-9.22	106.71	122.56
1	A	538	GLU	C-N-CA	-9.22	106.71	122.56
3	S	136	VAL	N-CA-C	9.21	121.34	111.58
1	A	493	ALA	O-C-N	9.20	131.87	122.12
1	A	629	LEU	O-C-N	-9.20	111.95	120.51
3	S	32	LEU	O-C-N	9.20	133.58	122.27
2	B	547	GLN	O-C-N	9.20	132.02	122.09
2	B	584	SER	O-C-N	-9.19	109.78	122.46
4	M	265	ASN	N-CA-C	-9.19	90.25	107.71
2	B	143	SER	CA-C-N	-9.19	103.99	121.54
2	B	143	SER	C-N-CA	-9.19	103.99	121.54
4	M	98	ARG	CA-C-O	-9.19	110.68	120.42
1	A	222	ILE	O-C-N	9.18	131.15	121.87
1	A	348	PHE	O-C-N	9.18	132.96	122.22
4	M	319	SER	CA-C-N	9.18	138.50	121.97
4	M	319	SER	C-N-CA	9.18	138.50	121.97
3	S	165	SER	CA-C-N	-9.18	105.91	120.60
3	S	165	SER	C-N-CA	-9.18	105.91	120.60
2	B	73	ASP	CA-C-N	-9.18	108.09	122.23
2	B	73	ASP	C-N-CA	-9.18	108.09	122.23
4	M	458	LEU	CA-C-O	-9.17	110.47	121.66
2	B	323	ASN	O-C-N	9.17	134.15	122.23
2	B	493	LEU	O-C-N	9.17	134.15	122.23
1	A	424	TYR	O-C-N	9.17	135.76	122.28
1	A	502	ASP	CA-C-O	-9.17	109.74	120.10
1	A	574	ILE	CA-C-O	-9.17	111.51	121.05
4	M	387	GLU	CA-C-N	-9.17	110.21	123.05
4	M	387	GLU	C-N-CA	-9.17	110.21	123.05
2	B	358	MET	CA-C-O	-9.17	110.73	120.63
1	A	395	PHE	CA-C-N	-9.16	105.99	120.47
1	A	395	PHE	C-N-CA	-9.16	105.99	120.47
2	B	30	LEU	CA-C-N	9.16	139.36	121.41
2	B	30	LEU	C-N-CA	9.16	139.36	121.41
2	B	543	GLU	O-C-N	9.16	132.59	122.15
2	B	410	GLU	O-C-N	9.15	132.59	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	277	GLU	CA-C-N	-9.15	105.50	121.97
4	M	277	GLU	C-N-CA	-9.15	105.50	121.97
1	A	427	LYS	O-C-N	9.14	131.81	122.12
1	A	137	ASN	CA-C-N	-9.14	108.15	122.23
1	A	137	ASN	C-N-CA	-9.14	108.15	122.23
1	A	425	LYS	O-C-N	9.14	132.91	122.22
2	B	155	LEU	CA-C-O	-9.14	107.44	120.51
4	M	394	GLN	O-C-N	-9.14	112.61	123.31
2	B	105	LEU	CA-C-N	-9.13	104.10	121.54
2	B	105	LEU	C-N-CA	-9.13	104.10	121.54
2	B	300	ASP	CA-C-O	-9.13	111.23	120.82
2	B	252	LEU	O-C-N	9.13	134.73	122.59
1	A	328	PRO	O-C-N	-9.12	110.01	122.24
1	A	241	TYR	O-C-N	9.12	132.55	122.15
1	A	436	CYS	O-C-N	-9.12	111.55	122.22
1	A	177	ILE	O-C-N	9.12	133.88	121.84
1	A	302	ASN	CA-C-O	9.12	133.55	120.51
2	B	474	VAL	CA-C-O	-9.12	109.38	120.78
4	M	125	PHE	O-C-N	9.12	133.20	122.17
2	B	365	PHE	O-C-N	9.11	131.57	122.09
2	B	611	ALA	CA-C-O	-9.12	110.79	120.63
1	A	123	LEU	O-C-N	9.11	131.78	122.12
3	S	132	LEU	CA-C-O	-9.11	109.49	119.97
4	M	447	ILE	CA-C-O	9.11	132.16	120.78
1	A	183	THR	CA-C-O	-9.10	110.90	120.55
1	A	583	GLU	CA-C-O	-9.10	110.90	120.55
1	A	417	PRO	N-CA-C	-9.10	96.92	111.38
1	A	455	MET	CA-C-O	-9.10	109.82	120.10
1	A	462	GLN	CA-C-N	-9.10	105.53	120.72
1	A	462	GLN	C-N-CA	-9.10	105.53	120.72
2	B	213	LEU	O-C-N	9.10	134.15	122.33
1	A	428	MET	CA-C-O	-9.09	111.27	120.82
1	A	309	PHE	CA-C-O	-9.09	110.81	120.63
2	B	475	ILE	O-C-N	9.09	133.93	122.57
1	A	467	LYS	O-C-N	9.08	133.44	122.27
1	A	215	VAL	O-C-N	-9.08	112.46	121.90
4	M	230	LYS	CA-C-O	-9.07	111.74	122.27
1	A	495	ILE	CA-C-O	-9.07	111.23	120.85
2	B	491	PHE	CA-C-O	-9.07	110.93	120.55
4	M	400	ASP	CA-C-O	-9.07	111.67	121.56
2	B	128	SER	CA-C-N	9.07	133.59	120.71
2	B	128	SER	C-N-CA	9.07	133.59	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	566	ALA	CA-C-N	9.07	141.38	121.80
2	B	566	ALA	C-N-CA	9.07	141.38	121.80
3	S	24	ASP	O-C-N	9.07	133.65	123.04
2	B	477	MET	O-C-N	9.06	131.73	122.12
2	B	488	ARG	O-C-N	9.06	134.47	122.33
2	B	431	MET	O-C-N	9.06	131.72	122.12
1	A	368	ARG	O-C-N	9.06	131.72	122.12
1	A	566	PHE	N-CA-C	9.06	130.09	110.80
2	B	425	PRO	CA-C-O	-9.05	110.63	121.95
2	B	569	THR	CA-C-N	9.05	134.12	121.26
2	B	569	THR	C-N-CA	9.05	134.12	121.26
2	B	476	ARG	CA-C-O	-9.05	110.19	120.24
2	B	492	LYS	CA-C-O	-9.05	109.57	119.97
1	A	613	ALA	O-C-N	9.04	133.11	122.17
3	S	17	VAL	CA-C-O	9.04	130.29	120.43
2	B	526	CYS	CA-C-O	-9.03	107.79	120.16
1	A	148	SER	O-C-N	9.03	131.69	122.12
1	A	610	SER	CA-C-O	-9.03	110.09	120.20
2	B	120	ILE	O-C-N	9.02	131.60	121.94
2	B	554	LYS	O-C-N	9.02	134.59	122.59
4	M	403	THR	N-CA-C	-9.02	91.96	108.02
1	A	488	ARG	O-C-N	9.01	133.95	122.23
2	B	215	TYR	O-C-N	9.01	134.57	122.59
1	A	255	ARG	O-C-N	9.01	131.35	122.07
2	B	474	VAL	O-C-N	9.00	133.82	122.57
3	S	161	GLU	CA-C-O	9.00	129.80	119.27
2	B	213	LEU	CA-C-O	-9.00	108.99	119.61
2	B	522	GLU	N-CA-C	9.00	126.25	109.24
4	M	367	ALA	N-CA-C	-9.00	95.00	109.76
1	A	337	LEU	O-C-N	8.99	132.74	122.22
4	M	319	SER	N-CA-C	-8.99	91.64	110.80
3	S	68	VAL	N-CA-CB	-8.99	99.95	111.64
3	S	154	ASP	CA-C-O	-8.99	109.18	119.79
2	B	82	TYR	CA-C-O	8.99	130.07	119.56
2	B	322	CYS	O-C-N	8.99	133.32	122.27
2	B	325	LEU	CA-C-N	-8.98	105.42	121.14
2	B	325	LEU	C-N-CA	-8.98	105.42	121.14
2	B	408	VAL	N-CA-C	8.98	119.79	110.72
1	A	141	VAL	O-C-N	8.97	132.89	121.94
2	B	230	PHE	CA-C-O	8.97	130.24	120.10
4	M	294	ASP	CA-C-N	8.97	138.99	121.41
4	M	294	ASP	C-N-CA	8.97	138.99	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	160	ARG	O-C-N	8.97	131.62	122.12
1	A	320	HIS	CA-C-O	8.96	129.92	120.42
2	B	584	SER	N-CA-CB	-8.96	95.80	110.40
1	A	583	GLU	O-C-N	8.96	131.61	122.12
1	A	67	LYS	N-CA-C	-8.95	101.52	111.28
1	A	71	VAL	O-C-N	8.95	130.91	121.87
2	B	485	LYS	O-C-N	8.95	133.07	122.24
1	A	494	ASN	O-C-N	8.95	132.35	122.15
2	B	117	LEU	O-C-N	8.95	131.60	122.12
1	A	260	PHE	CA-C-O	8.95	129.90	120.42
2	B	407	ASN	O-C-N	8.94	132.18	122.34
3	S	105	PHE	O-C-N	8.94	132.99	122.17
4	M	396	GLN	CA-C-N	-8.95	110.53	123.05
4	M	396	GLN	C-N-CA	-8.95	110.53	123.05
1	A	295	VAL	O-C-N	8.94	131.20	121.90
1	A	371	ALA	CA-C-O	-8.94	111.49	120.70
1	A	218	ALA	CA-C-O	-8.94	110.00	120.10
2	B	193	LEU	O-C-N	8.93	132.73	122.19
1	A	308	ASP	N-CA-C	8.93	125.70	113.37
2	B	305	SER	CA-C-O	-8.93	111.44	120.82
1	A	90	HIS	CA-C-O	-8.93	109.70	119.97
1	A	339	TYR	CA-C-O	-8.93	111.35	120.90
1	A	597	GLN	O-C-N	8.93	131.26	122.07
1	A	415	ARG	CA-C-N	-8.92	105.62	122.13
1	A	415	ARG	C-N-CA	-8.92	105.62	122.13
3	S	156	LEU	O-C-N	8.92	134.29	122.33
4	M	307	SER	O-C-N	8.92	131.31	122.03
1	A	452	ALA	CA-C-O	-8.92	111.10	120.55
1	A	547	VAL	CA-C-O	-8.92	111.15	121.05
1	A	522	PHE	O-C-N	8.91	133.31	122.35
2	B	103	LEU	O-C-N	8.91	132.31	122.15
2	B	572	GLU	O-C-N	8.91	134.27	122.33
3	S	66	ASP	CA-C-N	8.91	140.04	121.32
3	S	66	ASP	C-N-CA	8.91	140.04	121.32
4	M	105	ASP	O-C-N	-8.91	110.74	122.59
1	A	70	ALA	CA-C-O	-8.91	111.11	120.55
1	A	73	LYS	CA-C-O	-8.91	110.98	120.42
2	B	404	ASN	O-C-N	-8.91	108.62	122.61
3	S	78	LYS	CA-C-O	8.91	131.07	120.20
4	M	272	LEU	CA-C-N	8.91	137.18	120.97
4	M	272	LEU	C-N-CA	8.91	137.18	120.97
1	A	109	ALA	O-C-N	8.89	131.69	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	184	ALA	O-C-N	8.89	131.69	122.09
2	B	192	LEU	O-C-N	8.89	134.41	122.59
2	B	255	TYR	O-C-N	8.88	132.33	122.11
2	B	191	GLU	O-C-N	8.88	132.92	122.17
3	S	137	GLN	N-CA-C	8.88	122.75	110.24
2	B	184	GLY	CA-C-N	8.87	133.32	120.38
2	B	184	GLY	C-N-CA	8.87	133.32	120.38
1	A	519	LEU	CA-C-O	8.87	130.16	119.97
1	A	288	THR	CA-C-N	8.86	133.78	120.31
1	A	288	THR	C-N-CA	8.86	133.78	120.31
1	A	581	LEU	O-C-N	8.86	133.90	122.39
2	B	329	ALA	N-CA-C	8.85	122.59	109.59
2	B	362	ALA	CA-C-O	-8.84	111.09	120.63
1	A	310	GLU	CA-C-O	-8.83	111.45	120.90
1	A	369	SER	CA-C-O	-8.83	111.61	120.70
1	A	487	MET	CA-C-N	-8.83	105.49	120.58
1	A	487	MET	C-N-CA	-8.83	105.49	120.58
2	B	451	MET	O-C-N	8.82	131.47	122.12
2	B	103	LEU	CA-C-O	-8.82	111.07	120.42
4	M	22	ALA	CB-CA-C	8.82	127.97	110.42
2	B	364	HIS	O-C-N	8.82	131.15	122.07
2	B	98	LYS	O-C-N	8.81	132.25	122.20
2	B	246	SER	O-C-N	8.81	133.11	122.27
1	A	180	LYS	CA-C-O	-8.81	111.08	120.42
2	B	433	VAL	CA-C-O	-8.80	110.09	120.83
2	B	214	ALA	CA-C-O	-8.80	111.65	120.89
2	B	399	LEU	CA-C-N	-8.80	105.74	121.14
2	B	399	LEU	C-N-CA	-8.80	105.74	121.14
1	A	472	LYS	O-C-N	8.80	133.09	122.27
3	S	135	ILE	CA-C-O	8.79	130.22	119.58
1	A	605	GLU	CA-C-O	-8.79	111.60	120.82
1	A	628	VAL	CA-C-O	-8.79	109.80	120.78
2	B	317	VAL	CA-C-O	-8.78	109.40	120.03
2	B	525	ILE	CA-C-O	-8.78	111.74	119.38
3	S	103	GLN	CA-C-O	-8.78	108.86	119.49
2	B	127	LEU	N-CA-C	-8.78	99.40	112.04
1	A	293	GLU	CA-C-O	-8.78	111.61	120.82
2	B	172	GLU	CA-C-O	8.76	129.84	120.55
3	S	42	ARG	CA-C-N	8.76	133.98	120.75
3	S	42	ARG	C-N-CA	8.76	133.98	120.75
2	B	234	CYS	CA-C-O	-8.76	111.27	120.55
1	A	123	LEU	CA-C-O	-8.75	111.28	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	308	ASP	CA-C-N	8.75	132.37	120.38
1	A	308	ASP	C-N-CA	8.75	132.37	120.38
2	B	137	PHE	CA-C-O	-8.75	111.18	120.63
2	B	418	TYR	CA-C-O	8.74	129.82	120.55
2	B	95	THR	CA-C-O	-8.74	111.28	120.55
4	M	317	MET	CA-C-N	-8.74	104.47	121.94
4	M	317	MET	C-N-CA	-8.74	104.47	121.94
3	S	27	LYS	O-C-N	8.73	134.76	122.36
2	B	36	THR	CA-C-O	-8.73	108.02	120.51
4	M	455	VAL	N-CA-C	8.73	118.84	106.53
1	A	156	PRO	CA-C-O	8.73	133.43	119.64
2	B	47	LEU	O-C-N	8.73	132.24	122.11
2	B	408	VAL	CA-C-O	-8.72	111.60	120.85
2	B	616	SER	O-C-N	8.72	131.16	122.09
3	S	70	ASN	CA-C-O	8.72	132.98	120.51
3	S	131	VAL	CA-C-O	-8.72	111.60	120.85
2	B	299	LEU	CA-C-O	-8.72	111.72	120.70
2	B	470	ALA	O-C-N	8.72	131.09	122.03
2	B	606	ASP	CA-C-O	-8.72	111.22	120.63
1	A	118	SER	CA-C-O	-8.72	111.18	120.42
1	A	633	PHE	O-C-N	8.71	131.15	122.09
3	S	116	VAL	CA-C-O	8.72	129.54	120.39
3	S	118	GLU	O-C-N	8.71	134.11	122.43
1	A	251	TRP	O-C-N	8.71	132.07	122.15
2	B	610	ARG	CA-C-O	-8.71	111.68	120.82
1	A	298	ILE	CA-C-N	-8.70	106.03	120.30
1	A	298	ILE	C-N-CA	-8.70	106.03	120.30
1	A	399	ASP	O-C-N	8.70	133.59	122.19
1	A	500	SER	N-CA-C	-8.70	102.66	113.28
2	B	56	SER	CA-C-O	8.70	129.77	120.55
1	A	129	LYS	O-C-N	8.69	131.48	122.09
1	A	87	CYS	O-C-N	8.68	133.14	122.20
1	A	226	SER	CA-C-N	-8.68	108.64	120.28
1	A	226	SER	C-N-CA	-8.68	108.64	120.28
4	M	60	LEU	O-C-N	8.68	133.55	122.87
2	B	170	ARG	O-C-N	-8.68	112.06	122.22
1	A	113	SER	N-CA-C	8.67	124.22	112.68
1	A	141	VAL	CA-C-O	-8.67	109.70	121.15
2	B	356	LYS	CA-C-O	-8.67	111.36	120.55
2	B	360	LEU	O-C-N	8.67	132.94	122.27
1	A	593	THR	CA-C-O	-8.67	111.52	120.54
4	M	323	MET	CA-C-N	-8.66	109.08	121.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	323	MET	C-N-CA	-8.66	109.08	121.99
2	B	607	ILE	CA-C-O	-8.66	111.67	120.85
2	B	491	PHE	O-C-N	8.65	131.29	122.12
1	A	374	LEU	CA-C-O	-8.65	111.25	120.42
1	A	580	GLU	CA-C-O	-8.65	111.74	120.82
2	B	371	GLN	N-CA-C	8.65	121.95	111.40
3	S	85	PHE	O-C-N	-8.65	113.01	123.30
2	B	429	VAL	CA-C-O	-8.64	111.33	120.57
1	A	634	ASN	O-C-N	8.63	132.89	122.27
2	B	251	LEU	CA-C-O	-8.63	111.93	121.00
2	B	359	LEU	O-C-N	8.63	133.45	122.23
1	A	282	MET	CA-C-O	8.62	129.89	119.97
2	B	280	PRO	N-CA-C	-8.62	98.48	111.41
2	B	413	LYS	O-C-N	8.62	132.30	122.22
3	S	33	GLU	CA-C-O	-8.62	111.28	120.42
1	A	202	LYS	O-C-N	8.62	132.87	122.27
1	A	518	CYS	O-C-N	8.61	131.25	122.12
2	B	482	ASN	O-C-N	8.61	131.22	121.32
1	A	288	THR	N-CA-C	8.61	135.10	111.00
1	A	222	ILE	CA-C-O	-8.61	111.36	120.57
2	B	150	LEU	O-C-N	8.61	133.49	122.39
2	B	515	PHE	CA-C-O	8.61	129.82	120.10
1	A	573	GLU	CA-C-O	8.60	129.56	120.70
2	B	181	TYR	CA-C-O	8.59	129.66	120.55
2	B	613	MET	CA-C-O	-8.59	111.44	120.55
4	M	309	GLN	O-C-N	8.59	130.91	122.07
1	A	201	ASP	CA-C-O	-8.58	111.33	120.42
2	B	123	LEU	O-C-N	8.58	133.38	122.23
3	S	115	GLU	CA-C-N	-8.58	111.90	123.14
3	S	115	GLU	C-N-CA	-8.58	111.90	123.14
1	A	315	CYS	O-C-N	8.58	131.93	122.15
1	A	462	GLN	CA-C-O	8.58	129.91	119.79
1	A	334	SER	O-C-N	8.58	131.35	122.09
1	A	381	GLU	CA-C-O	8.57	129.53	120.70
4	M	130	GLU	N-CA-CB	8.57	122.52	110.26
4	M	456	SER	CA-C-O	-8.57	113.70	121.67
3	S	158	LYS	CA-C-O	-8.57	108.69	119.31
1	A	117	ASP	CA-C-O	-8.56	110.43	120.62
2	B	449	HIS	CA-C-O	-8.56	110.12	119.97
1	A	91	ILE	O-C-N	8.56	133.14	121.84
2	B	267	ASP	CA-C-N	-8.56	104.89	121.58
2	B	267	ASP	C-N-CA	-8.56	104.89	121.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	98	ASN	O-C-N	-8.56	112.76	122.86
1	A	130	LYS	O-C-N	8.55	132.22	122.22
4	M	284	SER	CA-C-O	8.55	131.09	121.01
1	A	260	PHE	N-CA-C	-8.55	102.04	111.36
1	A	465	SER	O-C-N	8.54	133.32	122.81
2	B	468	LEU	CA-C-O	-8.54	110.45	120.10
1	A	397	ASP	CA-C-O	8.54	129.06	119.41
2	B	230	PHE	O-C-N	-8.54	112.23	122.22
2	B	169	VAL	N-CA-C	-8.53	102.54	110.82
2	B	226	LEU	O-C-N	8.53	133.94	122.59
1	A	477	PHE	CA-C-O	-8.53	110.46	120.10
2	B	119	SER	CA-C-O	-8.53	110.16	119.97
2	B	98	LYS	CA-C-O	-8.53	110.65	120.20
1	A	560	SER	O-C-N	8.53	130.85	122.07
2	B	470	ALA	CA-C-O	-8.53	112.05	121.00
1	A	508	LEU	O-C-N	8.52	129.18	121.42
3	S	107	GLU	O-C-N	8.52	132.19	122.22
3	S	127	THR	CA-C-O	-8.52	110.78	120.24
1	A	436	CYS	CA-C-O	8.52	129.73	120.10
4	M	283	PHE	N-CA-C	-8.52	94.84	108.73
1	A	139	ASP	O-C-N	8.52	132.74	122.27
1	A	544	SER	CA-C-O	-8.52	111.99	121.87
1	A	292	TYR	O-C-N	8.52	131.15	122.12
4	M	40	GLN	CA-C-O	-8.51	111.53	120.55
2	B	207	VAL	CA-C-O	-8.51	110.83	120.96
2	B	609	ASP	O-C-N	8.51	131.14	122.12
3	S	49	SER	CA-C-O	-8.51	108.76	119.31
2	B	588	ILE	O-C-N	8.50	133.07	121.84
1	A	350	SER	CA-C-O	8.50	129.56	120.55
4	M	454	ILE	CA-C-N	-8.49	112.65	122.93
4	M	454	ILE	C-N-CA	-8.49	112.65	122.93
1	A	363	VAL	N-CA-C	8.49	123.92	112.04
2	B	554	LYS	CA-C-O	-8.49	108.37	120.51
3	S	61	ASN	CA-C-N	-8.49	106.97	120.63
3	S	61	ASN	C-N-CA	-8.49	106.97	120.63
4	M	113	LYS	O-C-N	8.49	133.26	122.23
3	S	18	LYS	O-C-N	-8.49	112.20	123.23
3	S	152	SER	O-C-N	8.49	132.15	122.22
1	A	102	GLN	O-C-N	8.48	133.87	122.59
2	B	68	SER	CA-C-O	-8.48	111.43	120.42
4	M	379	LEU	CA-C-N	-8.48	111.30	123.00
4	M	379	LEU	C-N-CA	-8.48	111.30	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	214	ALA	O-C-N	8.48	132.12	122.11
1	A	64	LEU	CA-C-N	-8.48	107.43	120.31
1	A	64	LEU	C-N-CA	-8.48	107.43	120.31
1	A	120	ILE	CA-C-O	-8.47	111.87	120.85
1	A	68	THR	O-C-N	8.47	132.69	122.27
2	B	559	ASP	O-C-N	8.47	133.51	122.42
1	A	159	ALA	CA-C-O	-8.46	111.49	120.63
2	B	44	PRO	O-C-N	8.46	132.41	122.17
2	B	61	ASP	O-C-N	8.46	130.89	122.09
2	B	390	VAL	CA-C-O	-8.46	111.66	121.05
1	A	256	LEU	CA-C-O	-8.46	110.73	120.20
4	M	237	THR	O-C-N	-8.46	112.93	123.17
2	B	530	LEU	O-C-N	8.45	132.11	122.22
2	B	181	TYR	CA-C-N	-8.45	105.40	121.54
2	B	181	TYR	C-N-CA	-8.45	105.40	121.54
2	B	425	PRO	O-C-N	8.45	133.13	122.91
3	S	120	ASP	CA-C-O	-8.45	109.82	119.79
3	S	124	ASN	CA-C-N	8.45	131.42	120.44
3	S	124	ASN	C-N-CA	8.45	131.42	120.44
2	B	447	GLU	CA-C-O	-8.44	110.75	120.20
1	A	612	GLU	CA-C-O	-8.44	110.27	119.97
2	B	111	ASN	CA-C-N	8.43	133.33	121.61
2	B	111	ASN	C-N-CA	8.43	133.33	121.61
1	A	391	LEU	O-C-N	-8.43	111.28	122.23
1	A	104	ARG	O-C-N	8.42	132.36	122.17
2	B	389	ILE	CA-C-O	8.42	130.40	121.05
2	B	212	VAL	CA-C-N	-8.42	107.07	120.63
2	B	212	VAL	C-N-CA	-8.42	107.07	120.63
2	B	215	TYR	CA-C-O	-8.42	108.47	120.51
4	M	460	ILE	CA-C-N	8.42	137.28	122.05
4	M	460	ILE	C-N-CA	8.42	137.28	122.05
1	A	466	ASP	O-C-N	8.39	133.67	123.26
2	B	119	SER	O-C-N	8.39	132.60	122.27
2	B	410	GLU	CA-C-O	-8.39	111.52	120.42
1	A	137	ASN	N-CA-C	8.39	122.77	112.54
2	B	118	LEU	O-C-N	8.39	131.01	122.12
1	A	278	ILE	CA-C-N	8.38	137.54	121.54
1	A	278	ILE	C-N-CA	8.38	137.54	121.54
2	B	295	ASN	CA-C-N	8.38	142.24	121.80
2	B	295	ASN	C-N-CA	8.38	142.24	121.80
1	A	314	ALA	O-C-N	8.38	131.00	122.12
2	B	504	ALA	CA-C-N	8.38	131.50	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	504	ALA	C-N-CA	8.38	131.50	120.28
2	B	606	ASP	O-C-N	8.37	130.99	122.12
2	B	608	ARG	O-C-N	8.36	131.12	122.09
4	M	92	PHE	CA-C-O	-8.36	109.82	119.60
4	M	306	LEU	CA-C-O	8.36	132.46	120.51
3	S	86	THR	CA-C-O	8.35	130.26	120.66
1	A	456	ASP	CA-C-O	-8.35	111.57	120.42
2	B	343	LEU	CA-C-O	-8.35	111.62	120.63
1	A	331	ARG	CA-C-O	-8.34	112.06	120.82
3	S	138	GLY	CA-C-N	8.34	133.26	122.00
3	S	138	GLY	C-N-CA	8.34	133.26	122.00
4	M	123	LEU	CA-C-O	-8.34	110.67	120.10
1	A	430	ASN	O-C-N	8.34	131.97	122.22
1	A	213	SER	CA-C-N	8.34	132.26	120.42
1	A	213	SER	C-N-CA	8.34	132.26	120.42
1	A	317	GLU	O-C-N	8.33	131.97	122.22
2	B	555	LEU	O-C-N	8.33	133.66	122.59
2	B	319	LEU	O-C-N	8.32	131.63	122.15
2	B	468	LEU	O-C-N	8.31	131.95	122.22
4	M	41	LEU	CA-C-O	-8.31	110.41	119.97
1	A	625	LEU	O-C-N	-8.31	112.67	122.15
2	B	436	LEU	CA-C-O	-8.31	108.62	120.51
3	S	112	CYS	CA-C-N	-8.31	109.70	123.33
3	S	112	CYS	C-N-CA	-8.31	109.70	123.33
3	S	127	THR	O-C-N	8.31	133.04	122.23
3	S	155	GLU	CA-C-O	-8.31	110.41	119.97
2	B	504	ALA	O-C-N	8.31	133.64	122.59
1	A	124	ALA	CA-C-O	-8.31	110.42	119.97
2	B	301	LEU	O-C-N	8.30	133.19	122.39
1	A	467	LYS	CA-C-O	-8.30	110.42	119.97
2	B	590	GLN	CA-C-O	-8.30	109.82	119.61
1	A	447	PHE	N-CA-C	-8.29	102.18	111.14
4	M	88	ASP	CA-C-O	-8.29	110.73	120.10
3	S	157	ASN	O-C-N	8.29	133.54	122.43
2	B	56	SER	N-CA-C	-8.29	102.25	111.28
1	A	389	GLN	O-C-N	8.28	130.90	122.12
1	A	328	PRO	CA-C-O	8.28	131.02	119.18
2	B	505	ASP	CA-C-O	8.28	129.32	120.55
1	A	476	GLN	O-C-N	8.27	132.98	122.23
2	B	104	TYR	CA-C-O	-8.27	112.32	121.00
3	S	113	PHE	N-CA-C	-8.27	89.63	107.49
1	A	453	VAL	CA-C-O	-8.26	112.36	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	159	LYS	CA-C-O	-8.26	111.79	120.55
2	B	452	LYS	CA-C-O	-8.26	111.79	120.55
3	S	76	ILE	O-C-N	-8.26	113.44	123.10
1	A	569	ASP	O-C-N	-8.26	111.61	122.59
2	B	91	THR	CA-C-N	8.25	133.30	121.50
2	B	91	THR	C-N-CA	8.25	133.30	121.50
4	M	377	LYS	CA-C-N	-8.25	112.33	123.14
4	M	377	LYS	C-N-CA	-8.25	112.33	123.14
4	M	105	ASP	N-CA-C	8.25	128.38	110.80
3	S	159	ALA	CA-C-O	-8.25	111.72	120.55
2	B	293	VAL	O-C-N	-8.25	113.33	121.83
1	A	179	LYS	CA-C-O	-8.24	111.68	120.42
2	B	472	VAL	CA-C-N	-8.23	108.43	120.28
2	B	472	VAL	C-N-CA	-8.23	108.43	120.28
2	B	78	ASP	CA-C-O	8.23	129.84	120.54
4	M	277	GLU	N-CA-C	8.22	121.92	108.52
1	A	306	GLU	O-C-N	-8.22	111.66	122.59
3	S	159	ALA	O-C-N	8.22	132.11	122.17
4	M	279	ASN	CA-C-O	-8.22	108.76	120.51
3	S	83	LEU	CA-C-N	-8.21	110.62	122.94
3	S	83	LEU	C-N-CA	-8.21	110.62	122.94
1	A	241	TYR	CA-C-O	-8.21	111.72	120.42
4	M	372	ILE	CA-C-N	-8.21	110.61	122.19
4	M	372	ILE	C-N-CA	-8.21	110.61	122.19
2	B	418	TYR	O-C-N	-8.21	113.42	122.12
1	A	350	SER	CA-C-N	-8.21	107.47	120.60
1	A	350	SER	C-N-CA	-8.21	107.47	120.60
2	B	249	ILE	O-C-N	8.21	132.67	121.84
1	A	110	ALA	O-C-N	-8.20	112.62	122.22
2	B	192	LEU	CA-C-O	-8.20	108.78	120.51
1	A	456	ASP	O-C-N	8.20	131.50	122.15
2	B	188	TYR	CA-C-O	-8.20	110.03	119.05
1	A	72	LEU	CA-C-O	-8.19	111.73	120.42
1	A	381	GLU	N-CA-C	8.19	119.99	111.14
2	B	567	GLN	CA-C-N	-8.19	107.22	121.97
2	B	567	GLN	C-N-CA	-8.19	107.22	121.97
1	A	81	GLY	CA-C-N	8.19	136.84	122.67
1	A	81	GLY	C-N-CA	8.19	136.84	122.67
1	A	499	ILE	CA-C-N	-8.19	106.83	122.06
1	A	499	ILE	C-N-CA	-8.19	106.83	122.06
4	M	20	LEU	CA-C-O	8.19	130.35	120.28
4	M	63	TYR	O-C-N	8.19	133.26	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	240	LEU	O-C-N	-8.18	112.20	122.27
3	S	31	LEU	CA-C-O	-8.18	111.16	120.24
2	B	177	ILE	O-C-N	8.18	132.79	122.57
4	M	16	PHE	O-C-N	-8.18	114.32	123.48
1	A	550	VAL	CA-C-O	-8.18	111.64	120.47
4	M	1	MET	CA-C-N	-8.18	108.53	122.92
4	M	1	MET	C-N-CA	-8.18	108.53	122.92
4	M	231	SER	CA-C-N	-8.17	111.90	122.77
4	M	231	SER	C-N-CA	-8.17	111.90	122.77
2	B	592	TYR	O-C-N	8.17	132.85	122.23
4	M	57	GLY	O-C-N	-8.16	114.05	122.70
1	A	174	ARG	O-C-N	8.16	130.71	121.32
3	S	83	LEU	O-C-N	-8.16	112.88	123.16
4	M	223	HIS	O-C-N	-8.15	113.41	123.36
1	A	240	LEU	CA-C-O	8.14	129.33	119.97
1	A	315	CYS	CA-C-O	-8.13	111.80	120.42
2	B	196	LEU	CA-C-O	-8.13	108.88	120.51
2	B	60	ARG	O-C-N	8.13	132.00	122.17
2	B	246	SER	CA-C-O	-8.12	110.63	119.97
4	M	65	TYR	O-C-N	8.12	132.58	123.48
1	A	219	VAL	N-CA-C	8.12	118.70	110.82
2	B	243	TRP	O-C-N	8.12	134.31	122.13
1	A	476	GLN	CA-C-O	-8.11	111.24	120.24
2	B	321	CYS	O-C-N	8.11	131.44	122.20
4	M	59	ASP	CA-C-O	-8.11	109.25	119.31
4	M	117	ASN	O-C-N	8.11	133.07	122.20
2	B	409	LYS	CA-C-O	-8.10	111.88	120.63
4	M	97	ASP	CA-C-O	-8.10	111.96	120.55
4	M	296	LYS	CA-C-N	-8.10	108.44	122.37
4	M	296	LYS	C-N-CA	-8.10	108.44	122.37
2	B	585	GLY	N-CA-C	-8.10	93.99	113.18
2	B	273	SER	CA-C-O	8.09	125.69	119.46
2	B	582	ASP	O-C-N	-8.09	112.97	123.16
2	B	223	LEU	O-C-N	-8.08	111.31	122.46
1	A	100	LEU	CA-C-O	8.08	128.98	120.42
1	A	178	ARG	CA-C-O	-8.08	110.68	119.97
2	B	482	ASN	CA-C-O	-8.08	109.09	120.16
2	B	54	ARG	CA-C-N	8.07	133.05	121.50
2	B	54	ARG	C-N-CA	8.07	133.05	121.50
2	B	464	SER	O-C-N	8.07	132.50	122.65
1	A	436	CYS	CA-C-N	-8.07	107.05	122.06
1	A	436	CYS	C-N-CA	-8.07	107.05	122.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	467	LYS	CA-C-N	-8.07	107.68	120.60
1	A	467	LYS	C-N-CA	-8.07	107.68	120.60
1	A	530	ASN	N-CA-C	8.07	119.71	111.07
1	A	265	GLN	CA-C-N	8.07	136.22	121.70
1	A	265	GLN	C-N-CA	8.07	136.22	121.70
2	B	439	CYS	O-C-N	8.07	131.60	122.32
4	M	87	LEU	CA-C-O	-8.07	111.28	120.24
1	A	163	ALA	O-C-N	-8.06	113.57	122.12
2	B	124	GLN	CA-C-O	-8.06	112.36	120.82
2	B	142	LEU	CA-C-O	8.06	129.23	120.20
2	B	172	GLU	CA-C-N	-8.05	107.75	120.47
2	B	172	GLU	C-N-CA	-8.05	107.75	120.47
1	A	199	ASN	N-CA-C	8.05	123.14	113.16
1	A	73	LYS	O-C-N	8.05	131.32	122.15
1	A	462	GLN	N-CA-C	-8.05	102.09	112.23
1	A	99	LYS	CA-C-N	8.05	131.72	120.29
1	A	99	LYS	C-N-CA	8.05	131.72	120.29
2	B	138	ALA	O-C-N	8.04	130.78	122.09
2	B	207	VAL	O-C-N	8.04	132.36	121.90
1	A	539	ASN	CA-C-O	8.04	129.15	119.43
1	A	340	LYS	CA-C-O	-8.03	112.39	120.82
1	A	353	ASP	CA-C-O	-8.03	112.04	120.55
2	B	74	ASP	CA-C-N	8.03	136.88	121.54
2	B	74	ASP	C-N-CA	8.03	136.88	121.54
2	B	456	ASP	CA-C-O	-8.03	111.02	120.10
3	S	94	SER	CA-C-O	-8.03	111.89	121.05
1	A	311	THR	N-CA-C	-8.03	102.61	111.36
4	M	104	PHE	N-CA-CB	-8.03	96.92	110.49
4	M	125	PHE	CA-C-O	-8.02	111.97	120.55
1	A	211	ASP	O-C-N	8.02	132.88	123.02
2	B	465	ALA	O-C-N	8.02	130.75	122.09
1	A	421	PRO	O-C-N	8.02	132.80	122.86
1	A	628	VAL	O-C-N	8.02	132.59	122.57
3	S	86	THR	O-C-N	-8.02	113.49	123.27
2	B	555	LEU	CA-C-O	-8.02	109.05	120.51
2	B	67	ILE	O-C-N	8.01	132.80	121.82
2	B	371	GLN	O-C-N	8.01	131.86	122.17
2	B	357	GLU	O-C-N	8.01	131.28	122.15
1	A	185	LEU	O-C-N	8.01	132.80	122.39
1	A	375	VAL	O-C-N	-8.01	114.04	121.89
2	B	166	SER	O-C-N	8.00	132.40	123.04
4	M	111	ILE	CA-C-O	-8.00	110.78	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	591	MET	CA-C-O	-7.99	110.25	119.60
1	A	305	GLU	CA-C-O	-7.99	109.08	120.51
3	S	28	GLN	CA-C-O	-7.99	110.78	119.97
1	A	231	GLN	O-C-N	7.99	130.51	121.32
4	M	111	ILE	O-C-N	7.99	132.55	122.57
1	A	317	GLU	CA-C-O	-7.98	111.08	120.10
4	M	113	LYS	CA-C-O	-7.98	111.38	120.24
1	A	68	THR	CA-C-O	-7.98	110.79	119.97
2	B	236	ILE	O-C-N	7.98	129.93	121.87
1	A	230	PRO	N-CA-C	7.97	124.21	113.84
1	A	294	SER	O-C-N	7.97	131.55	122.22
2	B	457	HIS	O-C-N	-7.97	113.48	122.09
1	A	261	THR	CA-C-O	-7.97	112.10	120.55
1	A	557	LYS	CA-C-O	-7.97	112.11	120.55
2	B	87	VAL	N-CA-C	-7.96	102.78	110.42
2	B	456	ASP	O-C-N	7.96	131.54	122.22
4	M	389	SER	O-C-N	7.96	133.36	123.01
2	B	585	GLY	O-C-N	7.96	133.05	122.70
1	A	139	ASP	CA-C-N	7.96	131.36	120.46
1	A	139	ASP	C-N-CA	7.96	131.36	120.46
2	B	390	VAL	O-C-N	7.96	130.18	121.90
2	B	449	HIS	O-C-N	7.96	132.06	122.27
2	B	385	PRO	N-CA-C	7.95	124.24	113.98
2	B	140	SER	CA-C-O	-7.95	112.51	120.70
2	B	422	ALA	N-CA-C	-7.95	100.04	110.53
1	A	614	LEU	CA-C-N	-7.94	108.24	120.31
1	A	614	LEU	C-N-CA	-7.94	108.24	120.31
2	B	101	ILE	CA-C-N	7.94	130.92	120.28
2	B	101	ILE	C-N-CA	7.94	130.92	120.28
1	A	340	LYS	O-C-N	7.94	130.25	122.07
1	A	193	PRO	CA-C-O	-7.94	107.49	119.55
2	B	195	ILE	O-C-N	7.94	132.49	122.57
1	A	522	PHE	N-CA-C	7.94	121.77	112.72
1	A	258	LYS	CA-C-O	-7.93	112.01	120.42
3	S	48	SER	CA-C-N	-7.93	107.26	121.14
3	S	48	SER	C-N-CA	-7.93	107.26	121.14
3	S	157	ASN	CA-C-O	-7.93	109.63	119.38
2	B	594	ALA	CA-C-O	-7.93	112.02	120.42
4	M	387	GLU	CA-C-O	7.92	130.11	121.16
3	S	109	LEU	CA-C-N	-7.92	107.93	120.60
3	S	109	LEU	C-N-CA	-7.92	107.93	120.60
3	S	141	VAL	CA-C-N	-7.92	112.18	122.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	S	141	VAL	C-N-CA	-7.92	112.18	122.16
2	B	245	GLN	O-C-N	7.92	132.01	122.27
2	B	320	SER	O-C-N	7.92	130.64	122.09
1	A	181	ALA	O-C-N	7.92	131.48	122.22
1	A	478	ARG	O-C-N	7.92	130.64	122.09
3	S	64	ASN	CA-C-N	-7.91	106.42	121.54
3	S	64	ASN	C-N-CA	-7.91	106.42	121.54
3	S	155	GLU	O-C-N	7.91	132.00	122.27
4	M	85	GLY	N-CA-C	-7.91	96.21	112.34
2	B	178	ILE	O-C-N	7.90	132.45	122.57
3	S	140	MET	CA-C-N	-7.90	112.49	122.37
3	S	140	MET	C-N-CA	-7.90	112.49	122.37
4	M	279	ASN	N-CA-CB	-7.90	97.14	110.49
4	M	324	SER	CA-C-O	7.90	129.53	120.60
1	A	512	LEU	O-C-N	7.89	131.15	122.15
1	A	72	LEU	O-C-N	7.89	131.15	122.15
2	B	121	ASN	CA-C-O	-7.89	112.11	120.63
1	A	249	ASN	O-C-N	7.89	132.27	123.04
1	A	280	GLU	O-C-N	7.89	131.14	122.15
2	B	285	GLU	CA-C-N	7.89	131.37	120.49
2	B	285	GLU	C-N-CA	7.89	131.37	120.49
1	A	588	LEU	CA-C-O	7.88	131.78	120.51
2	B	82	TYR	O-C-N	-7.88	112.89	122.34
2	B	248	LEU	CA-C-O	-7.88	109.17	119.10
1	A	448	GLU	CA-C-N	7.88	136.58	121.54
1	A	448	GLU	C-N-CA	7.88	136.58	121.54
4	M	395	GLY	N-CA-C	7.87	120.57	111.36
1	A	594	PHE	O-C-N	7.87	130.46	122.12
2	B	338	LYS	CA-C-O	-7.87	112.13	120.63
2	B	382	TYR	N-CA-C	-7.87	98.82	110.23
4	M	88	ASP	O-C-N	7.86	131.41	122.22
1	A	128	LEU	O-C-N	7.86	132.86	122.33
1	A	200	PHE	CA-C-O	-7.86	112.14	120.63
1	A	356	ILE	O-C-N	7.86	131.52	121.94
4	M	271	SER	CA-C-N	-7.86	111.16	122.94
4	M	271	SER	C-N-CA	-7.86	111.16	122.94
1	A	621	LEU	O-C-N	-7.84	112.30	121.32
2	B	200	MET	CA-C-N	-7.84	109.87	122.66
2	B	200	MET	C-N-CA	-7.84	109.87	122.66
2	B	68	SER	O-C-N	7.84	131.09	122.15
1	A	276	PRO	N-CA-C	-7.84	103.30	113.57
2	B	568	VAL	O-C-N	7.84	132.37	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	396	GLN	O-C-N	-7.84	114.10	123.27
1	A	451	ASN	CA-C-O	-7.83	112.25	120.55
4	M	121	ILE	CA-C-O	-7.83	111.69	119.92
1	A	457	LEU	CA-C-O	-7.83	111.25	120.10
2	B	89	ASN	CA-C-N	7.83	133.13	120.30
2	B	89	ASN	C-N-CA	7.83	133.13	120.30
2	B	421	SER	N-CA-C	7.83	123.09	112.68
1	A	501	ASN	N-CA-C	-7.82	96.48	109.46
2	B	170	ARG	CA-C-O	7.81	128.93	120.10
1	A	571	ARG	CA-C-N	7.81	133.21	120.63
1	A	571	ARG	C-N-CA	7.81	133.21	120.63
3	S	95	GLU	O-C-N	7.81	130.40	122.12
1	A	386	ALA	CA-C-O	-7.81	112.15	120.42
2	B	176	ALA	CA-C-O	-7.80	109.36	120.51
2	B	239	GLN	CA-C-N	7.80	136.44	122.64
2	B	239	GLN	C-N-CA	7.80	136.44	122.64
1	A	292	TYR	CA-C-O	-7.80	112.21	120.63
1	A	185	LEU	CA-C-O	-7.80	110.06	119.49
1	A	104	ARG	CA-C-O	-7.79	112.21	120.55
1	A	290	VAL	CA-C-N	7.79	131.88	120.74
1	A	290	VAL	C-N-CA	7.79	131.88	120.74
1	A	332	TYR	CA-C-O	-7.79	112.57	120.90
3	S	60	SER	CA-C-N	7.78	135.75	122.36
3	S	60	SER	C-N-CA	7.78	135.75	122.36
4	M	404	ALA	CA-C-O	-7.78	112.41	121.82
1	A	356	ILE	CA-C-O	-7.77	110.89	121.15
3	S	27	LYS	CA-C-O	-7.76	110.51	119.60
1	A	422	GLU	O-C-N	7.76	131.00	122.15
2	B	458	MET	CA-C-N	-7.76	107.76	120.72
2	B	458	MET	C-N-CA	-7.76	107.76	120.72
1	A	471	SER	CA-C-O	-7.76	112.20	120.42
2	B	587	ARG	CA-C-O	-7.75	112.20	120.42
2	B	291	TYR	CA-C-N	7.75	132.09	120.31
2	B	291	TYR	C-N-CA	7.75	132.09	120.31
3	S	101	LEU	O-C-N	7.75	133.08	122.46
2	B	57	ARG	O-C-N	7.74	130.33	122.12
3	S	38	LEU	O-C-N	7.74	132.45	122.39
4	M	343	ASN	CA-C-N	-7.74	108.04	121.97
4	M	343	ASN	C-N-CA	-7.74	108.04	121.97
3	S	120	ASP	O-C-N	7.73	132.69	122.33
1	A	285	THR	CA-C-N	-7.73	115.27	123.08
1	A	285	THR	C-N-CA	-7.73	115.27	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	576	MET	CA-C-O	-7.73	112.36	120.55
1	A	404	GLN	CA-C-N	7.73	136.30	121.54
1	A	404	GLN	C-N-CA	7.73	136.30	121.54
1	A	494	ASN	CA-C-O	-7.73	112.23	120.42
2	B	604	GLU	O-C-N	7.73	133.20	122.77
3	S	55	PRO	CA-N-CD	-7.72	101.19	112.00
4	M	256	VAL	O-C-N	7.72	131.54	123.20
1	A	470	GLY	O-C-N	7.72	131.41	122.68
2	B	444	THR	CA-C-N	-7.72	109.16	120.28
2	B	444	THR	C-N-CA	-7.72	109.16	120.28
2	B	529	VAL	CA-C-O	-7.72	111.89	120.46
2	B	577	ASN	CA-C-O	-7.72	111.01	120.74
4	M	54	SER	CB-CA-C	-7.71	97.69	110.72
1	A	455	MET	O-C-N	7.71	131.24	122.22
2	B	84	ALA	CA-C-O	-7.71	111.57	120.20
2	B	185	LYS	CA-C-O	7.71	128.83	120.20
2	B	591	MET	O-C-N	7.70	133.30	122.36
4	M	21	GLY	O-C-N	7.70	130.69	122.60
1	A	170	LEU	N-CA-C	-7.70	102.33	112.34
2	B	284	ASN	N-CA-C	7.70	122.10	112.24
2	B	444	THR	N-CA-C	7.70	121.16	111.69
1	A	223	CYS	O-C-N	7.70	130.40	122.09
1	A	459	MET	O-C-N	7.70	130.41	122.09
4	M	229	LYS	CA-C-O	-7.70	112.43	121.44
1	A	370	LYS	O-C-N	7.70	131.22	122.22
1	A	214	VAL	CA-C-O	-7.70	112.69	120.85
1	A	551	LEU	O-C-N	7.69	130.34	122.03
2	B	224	GLU	N-CA-C	7.69	120.55	111.71
2	B	321	CYS	CA-C-O	-7.69	111.59	120.20
4	M	91	THR	O-C-N	7.68	132.38	122.39
2	B	435	SER	CA-C-O	-7.68	109.53	120.51
1	A	265	GLN	N-CA-CB	7.67	122.82	110.16
4	M	74	TYR	O-C-N	-7.67	113.20	123.10
2	B	121	ASN	O-C-N	7.67	130.25	122.12
2	B	435	SER	O-C-N	7.67	132.79	122.59
3	S	151	ALA	CA-C-O	-7.67	111.73	120.24
1	A	224	GLU	CA-C-N	-7.67	109.24	120.28
1	A	224	GLU	C-N-CA	-7.67	109.24	120.28
1	A	103	LYS	CA-C-N	-7.66	107.91	120.71
1	A	103	LYS	C-N-CA	-7.66	107.91	120.71
3	S	81	ALA	N-CA-C	-7.66	94.48	110.80
2	B	312	SER	N-CA-C	-7.66	99.31	110.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	175	LEU	CA-C-O	-7.65	112.44	120.55
1	A	127	LEU	O-C-N	7.65	133.23	122.36
4	M	410	VAL	CA-C-N	-7.65	111.45	122.77
4	M	410	VAL	C-N-CA	-7.65	111.45	122.77
2	B	84	ALA	O-C-N	7.65	130.92	122.20
2	B	371	GLN	CA-C-O	-7.65	112.37	120.55
2	B	188	TYR	O-C-N	7.64	131.75	122.35
2	B	244	SER	O-C-N	7.64	133.01	122.46
1	A	138	ASN	O-C-N	7.64	132.57	122.56
1	A	465	SER	CA-C-O	7.64	129.65	121.55
1	A	134	TYR	CA-C-N	-7.63	108.38	120.60
1	A	134	TYR	C-N-CA	-7.63	108.38	120.60
2	B	122	SER	O-C-N	7.63	131.66	122.27
2	B	283	TYR	N-CA-C	-7.63	103.05	111.36
1	A	165	ASP	CA-C-O	-7.63	111.78	120.24
4	M	18	TYR	O-C-N	-7.63	114.71	123.33
4	M	373	ALA	CA-C-N	-7.62	109.86	122.21
4	M	373	ALA	C-N-CA	-7.62	109.86	122.21
4	M	136	VAL	O-C-N	7.62	130.71	122.63
1	A	124	ALA	O-C-N	7.62	131.64	122.27
3	S	107	GLU	CA-C-O	-7.62	111.49	120.10
1	A	130	LYS	CA-C-O	-7.62	111.50	120.10
4	M	280	ASP	CB-CA-C	-7.62	95.27	110.42
4	M	447	ILE	CA-C-N	-7.61	110.08	120.82
4	M	447	ILE	C-N-CA	-7.61	110.08	120.82
2	B	401	THR	CA-C-N	7.61	134.46	121.14
2	B	401	THR	C-N-CA	7.61	134.46	121.14
3	S	128	LEU	CA-C-O	-7.61	111.22	119.97
2	B	248	LEU	O-C-N	7.61	132.55	122.43
2	B	432	ALA	O-C-N	7.60	132.70	122.59
1	A	128	LEU	CA-C-O	-7.60	110.82	119.79
2	B	503	LEU	N-CA-C	7.60	121.22	110.50
2	B	551	LEU	O-C-N	7.60	132.51	122.33
2	B	523	PHE	CA-C-N	-7.60	106.76	121.58
2	B	523	PHE	C-N-CA	-7.60	106.76	121.58
1	A	270	LEU	CA-C-O	-7.60	111.81	120.24
1	A	321	THR	CA-C-N	7.59	133.59	120.68
1	A	321	THR	C-N-CA	7.59	133.59	120.68
3	S	30	LEU	CA-C-O	-7.59	111.70	120.20
2	B	55	ASN	O-C-N	7.59	131.91	123.04
2	B	374	PHE	O-C-N	7.59	132.68	122.59
1	A	404	GLN	N-CA-C	-7.58	102.15	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	606	PHE	CA-C-O	-7.58	112.79	120.90
1	A	236	LEU	O-C-N	7.58	133.17	122.41
2	B	195	ILE	CA-C-O	-7.58	111.31	120.78
3	S	89	VAL	CA-C-O	7.58	130.69	121.75
4	M	135	ASN	O-C-N	7.58	131.86	123.22
1	A	287	ALA	N-CA-C	7.58	126.94	110.80
2	B	434	LYS	CA-C-O	-7.58	110.67	119.61
3	S	145	ASN	O-C-N	7.58	132.50	122.96
4	M	104	PHE	CA-C-O	7.58	131.34	120.51
1	A	129	LYS	CA-C-O	-7.57	112.90	120.70
1	A	311	THR	CA-C-O	-7.57	112.39	120.42
2	B	101	ILE	CA-C-O	-7.57	112.64	121.05
2	B	252	LEU	CA-C-O	-7.57	109.68	120.51
1	A	319	LEU	CA-C-N	-7.57	109.54	120.29
1	A	319	LEU	C-N-CA	-7.57	109.54	120.29
1	A	632	PHE	O-C-N	7.57	132.66	122.59
4	M	132	GLY	CA-C-O	7.57	133.74	120.57
4	M	237	THR	CA-C-N	-7.57	106.57	121.41
4	M	237	THR	C-N-CA	-7.57	106.57	121.41
2	B	502	SER	CA-C-N	-7.57	109.06	120.94
2	B	502	SER	C-N-CA	-7.57	109.06	120.94
1	A	66	SER	CA-C-O	-7.57	112.40	120.42
2	B	492	LYS	O-C-N	7.56	131.57	122.27
4	M	349	LYS	CA-C-N	-7.56	111.22	121.80
4	M	349	LYS	C-N-CA	-7.56	111.22	121.80
2	B	476	ARG	O-C-N	7.55	132.05	122.23
1	A	525	LEU	N-CA-C	-7.55	104.59	113.88
2	B	177	ILE	CA-C-O	-7.55	111.35	120.78
1	A	89	PHE	O-C-N	7.54	130.11	122.12
2	B	590	GLN	O-C-N	7.54	132.13	122.33
3	S	67	GLU	CA-C-N	-7.53	113.08	123.10
3	S	67	GLU	C-N-CA	-7.53	113.08	123.10
2	B	102	HIS	N-CA-C	-7.53	103.07	111.28
3	S	136	VAL	CA-C-N	7.53	131.52	120.90
3	S	136	VAL	C-N-CA	7.53	131.52	120.90
4	M	51	LEU	O-C-N	-7.53	112.57	122.59
2	B	155	LEU	O-C-N	7.53	132.60	122.59
4	M	86	PRO	O-C-N	7.53	132.89	122.35
2	B	510	GLY	O-C-N	7.52	132.47	122.70
2	B	241	ASP	O-C-N	7.52	131.79	123.22
4	M	85	GLY	CA-C-O	-7.51	110.78	121.52
1	A	235	GLN	N-CA-C	7.51	119.47	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	248	ASP	CA-C-N	7.51	132.24	121.50
1	A	248	ASP	C-N-CA	7.51	132.24	121.50
4	M	377	LYS	CA-C-O	7.51	129.64	120.56
1	A	502	ASP	O-C-N	7.50	131.00	122.22
2	B	423	HIS	N-CA-C	-7.50	95.46	108.52
4	M	50	TYR	N-CA-CB	-7.50	98.28	110.14
2	B	203	THR	N-CA-C	7.50	122.87	112.45
1	A	284	SER	N-CA-C	7.49	122.06	113.15
4	M	99	ILE	CA-C-O	-7.49	109.72	119.53
4	M	388	ASN	N-CA-C	7.49	120.72	108.52
1	A	528	ASN	CA-C-N	-7.48	110.79	120.14
1	A	528	ASN	C-N-CA	-7.48	110.79	120.14
2	B	292	GLU	N-CA-C	7.48	120.49	111.82
2	B	508	ARG	CA-C-N	-7.47	110.26	120.28
2	B	508	ARG	C-N-CA	-7.47	110.26	120.28
1	A	115	TYR	N-CA-C	-7.47	99.89	110.35
1	A	87	CYS	CA-C-O	-7.47	111.20	119.34
2	B	196	LEU	O-C-N	7.47	132.53	122.59
1	A	80	TYR	N-CA-CB	7.46	122.20	110.56
1	A	77	LEU	O-C-N	7.46	130.65	122.15
2	B	226	LEU	CA-C-O	-7.46	109.85	120.51
2	B	541	GLY	O-C-N	7.46	129.23	121.77
1	A	212	ILE	CA-C-O	7.45	129.05	120.03
2	B	532	ARG	CA-C-O	-7.45	109.36	119.05
4	M	230	LYS	O-C-N	-7.45	113.92	122.86
1	A	109	ALA	CA-C-O	-7.45	113.03	120.70
1	A	183	THR	O-C-N	7.45	130.01	122.12
4	M	387	GLU	O-C-N	-7.45	113.78	123.16
4	M	58	ARG	CA-C-N	-7.45	108.11	121.14
4	M	58	ARG	C-N-CA	-7.45	108.11	121.14
4	M	135	ASN	CA-C-O	7.45	128.33	120.36
1	A	365	VAL	CA-C-O	7.44	128.53	120.57
1	A	475	GLU	CA-C-O	-7.44	111.69	120.10
2	B	543	GLU	CA-C-O	-7.44	112.54	120.42
4	M	441	GLY	CA-C-O	7.44	126.86	118.98
2	B	140	SER	O-C-N	7.43	130.12	122.09
1	A	203	PHE	O-C-N	7.43	129.73	122.07
2	B	234	CYS	O-C-N	7.42	129.99	122.12
2	B	446	TRP	O-C-N	7.42	132.15	122.42
2	B	271	GLU	CA-C-N	-7.42	107.86	120.77
2	B	271	GLU	C-N-CA	-7.42	107.86	120.77
1	A	219	VAL	CA-C-O	-7.41	112.15	120.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	572	PHE	O-C-N	7.41	131.96	122.33
2	B	413	LYS	CA-C-O	-7.40	111.74	120.10
2	B	175	LEU	O-C-N	7.39	129.96	122.12
2	B	168	MET	O-C-N	7.38	129.94	122.12
2	B	568	VAL	CA-C-O	7.38	130.01	120.78
2	B	453	TRP	CA-C-O	-7.38	112.60	120.42
1	A	117	ASP	O-C-N	7.37	132.72	122.77
1	A	239	LEU	CA-C-N	-7.37	109.10	120.31
1	A	239	LEU	C-N-CA	-7.37	109.10	120.31
2	B	424	PHE	CA-C-N	7.37	127.81	119.92
2	B	424	PHE	C-N-CA	7.37	127.81	119.92
2	B	112	ASP	O-C-N	7.37	128.13	121.35
4	M	98	ARG	O-C-N	7.36	130.54	122.15
1	A	160	ARG	CA-C-O	-7.36	112.75	120.55
1	A	581	LEU	CA-C-O	-7.36	110.59	119.49
4	M	394	GLN	N-CA-C	7.36	121.19	108.76
2	B	131	ASN	O-C-N	7.35	132.38	122.82
4	M	120	ARG	O-C-N	7.35	132.20	122.43
1	A	379	VAL	CA-C-N	7.34	134.12	122.59
1	A	379	VAL	C-N-CA	7.34	134.12	122.59
1	A	367	ILE	CA-C-O	-7.34	112.86	120.71
2	B	471	TYR	CA-C-O	-7.34	110.02	120.51
2	B	318	ILE	O-C-N	7.33	131.52	121.84
2	B	100	LEU	CA-C-O	-7.33	111.81	120.10
3	S	154	ASP	O-C-N	7.33	132.15	122.33
4	M	130	GLU	O-C-N	7.33	131.33	122.75
2	B	145	MET	CA-C-O	-7.33	113.07	121.72
3	S	87	PHE	O-C-N	-7.33	113.70	123.23
3	S	35	VAL	O-C-N	7.33	131.86	121.82
3	S	35	VAL	CA-C-O	-7.33	112.34	120.25
4	M	389	SER	CA-C-O	-7.33	112.35	120.70
4	M	265	ASN	CA-C-O	-7.32	107.98	121.09
1	A	102	GLN	CA-C-O	-7.32	110.04	120.51
1	A	289	SER	CA-C-N	-7.32	108.29	120.30
1	A	289	SER	C-N-CA	-7.32	108.29	120.30
2	B	495	ASP	O-C-N	7.32	132.56	122.46
1	A	90	HIS	O-C-N	7.32	131.27	122.27
2	B	392	SER	O-C-N	7.32	131.27	122.27
2	B	532	ARG	O-C-N	7.31	132.55	122.46
3	S	48	SER	N-CA-C	-7.30	99.22	110.10
1	A	406	GLY	N-CA-C	-7.29	95.89	113.18
1	A	352	PHE	O-C-N	7.29	131.22	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	167	ALA	CA-C-O	-7.28	112.70	120.42
1	A	282	MET	CA-C-N	-7.28	109.96	120.29
1	A	282	MET	C-N-CA	-7.28	109.96	120.29
2	B	524	LYS	CA-C-N	-7.27	112.61	122.72
2	B	524	LYS	C-N-CA	-7.27	112.61	122.72
4	M	56	VAL	CB-CA-C	-7.27	102.39	111.70
4	M	395	GLY	CA-C-N	-7.27	112.52	122.77
4	M	395	GLY	C-N-CA	-7.27	112.52	122.77
4	M	80	THR	N-CA-CB	-7.27	101.39	110.98
2	B	508	ARG	N-CA-C	-7.26	103.36	111.28
2	B	579	PRO	N-CA-C	7.26	127.43	112.47
4	M	103	TYR	CA-C-O	7.26	130.61	121.82
1	A	291	ILE	CA-C-O	-7.25	112.33	120.96
3	S	141	VAL	N-CA-C	-7.25	97.13	108.23
3	S	49	SER	N-CA-C	-7.25	103.90	112.89
4	M	461	GLY	N-CA-C	-7.25	105.32	115.32
1	A	98	ASN	CA-C-O	-7.24	113.67	121.56
2	B	388	PRO	O-C-N	7.24	131.84	122.86
1	A	154	ILE	CA-C-N	-7.23	106.72	121.48
1	A	154	ILE	C-N-CA	-7.23	106.72	121.48
1	A	267	GLU	O-C-N	7.23	129.64	121.32
2	B	310	ILE	N-CA-C	-7.23	103.12	111.00
4	M	288	ILE	CA-C-N	-7.22	111.03	122.73
4	M	288	ILE	C-N-CA	-7.22	111.03	122.73
1	A	625	LEU	CA-C-O	7.22	128.07	120.42
1	A	489	GLU	O-C-N	7.21	130.66	122.22
2	B	273	SER	O-C-N	7.21	127.44	121.31
1	A	215	VAL	CA-C-N	-7.21	110.62	120.28
1	A	215	VAL	C-N-CA	-7.21	110.62	120.28
1	A	278	ILE	CA-C-O	-7.21	108.55	120.80
2	B	374	PHE	CA-C-O	-7.21	110.20	120.51
2	B	398	ILE	CA-C-O	-7.21	111.77	120.78
1	A	69	ASN	O-C-N	7.20	130.36	122.15
2	B	237	ILE	CA-C-O	7.20	129.78	120.78
2	B	287	GLU	O-C-N	7.20	131.47	123.04
2	B	304	GLN	O-C-N	7.20	129.75	122.12
2	B	536	ASN	CA-C-O	-7.20	111.43	119.78
2	B	461	HIS	N-CA-C	7.19	121.77	112.92
1	A	439	ASP	CA-C-N	7.19	135.00	121.69
1	A	439	ASP	C-N-CA	7.19	135.00	121.69
1	A	180	LYS	O-C-N	7.19	130.35	122.15
2	B	334	MET	CA-C-N	7.18	131.23	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	334	MET	C-N-CA	7.18	131.23	120.31
4	M	79	SER	CA-C-O	7.18	128.91	121.23
2	B	518	ILE	CA-C-O	-7.17	111.81	120.78
1	A	276	PRO	CA-C-O	7.17	129.88	119.34
4	M	75	TRP	CA-C-O	7.17	129.50	121.40
1	A	345	ASN	N-CA-C	7.16	119.14	107.32
1	A	354	GLN	O-C-N	7.16	129.71	122.12
2	B	567	GLN	N-CA-C	7.16	122.35	112.04
2	B	434	LYS	O-C-N	7.16	131.64	122.33
2	B	65	ARG	CA-C-O	-7.16	112.90	120.63
1	A	191	GLN	N-CA-C	7.15	121.93	112.13
3	S	116	VAL	N-CA-C	-7.15	98.09	108.11
3	S	151	ALA	O-C-N	7.15	131.52	122.23
1	A	374	LEU	O-C-N	7.15	130.30	122.15
3	S	126	GLN	CA-C-O	-7.15	112.19	120.20
2	B	256	CYS	CA-C-O	7.14	128.12	120.55
3	S	167	ILE	CB-CA-C	-7.14	102.68	112.04
1	A	249	ASN	CA-C-N	7.14	130.43	120.29
1	A	249	ASN	C-N-CA	7.14	130.43	120.29
4	M	133	GLU	C-N-CD	7.14	154.26	125.00
1	A	165	ASP	O-C-N	7.13	131.50	122.23
1	A	265	GLN	CB-CA-C	7.13	121.50	109.80
4	M	96	ILE	CA-C-O	-7.13	113.13	121.05
2	B	289	PRO	N-CA-C	7.13	122.40	111.34
2	B	471	TYR	O-C-N	7.13	132.07	122.59
4	M	322	LEU	CA-C-N	-7.13	110.62	122.17
4	M	322	LEU	C-N-CA	-7.13	110.62	122.17
2	B	36	THR	O-C-N	7.13	132.07	122.59
2	B	297	PRO	CA-C-O	-7.12	107.64	120.60
4	M	328	GLN	CA-C-N	-7.12	110.50	121.74
4	M	328	GLN	C-N-CA	-7.12	110.50	121.74
1	A	374	LEU	CA-C-N	7.12	130.56	120.53
1	A	374	LEU	C-N-CA	7.12	130.56	120.53
2	B	232	ARG	O-C-N	7.12	132.05	122.59
1	A	424	TYR	CA-C-O	-7.11	111.33	120.00
4	M	421	GLY	CA-C-O	7.11	131.68	121.52
1	A	320	HIS	CA-C-N	-7.11	110.01	120.38
1	A	320	HIS	C-N-CA	-7.11	110.01	120.38
2	B	95	THR	O-C-N	7.10	129.65	122.12
2	B	316	THR	O-C-N	7.10	129.70	122.03
4	M	405	THR	CA-C-O	7.10	130.66	120.51
1	A	239	LEU	N-CA-C	-7.10	102.96	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	375	VAL	CA-C-N	-7.09	109.53	120.31
1	A	375	VAL	C-N-CA	-7.09	109.53	120.31
1	A	440	ASN	N-CA-C	-7.09	97.06	108.55
4	M	351	SER	N-CA-CB	-7.09	99.29	110.28
4	M	367	ALA	CB-CA-C	7.09	121.39	109.48
1	A	342	GLY	CA-C-N	-7.09	110.67	120.38
1	A	342	GLY	C-N-CA	-7.09	110.67	120.38
1	A	589	SER	N-CA-C	-7.09	104.50	113.01
2	B	239	GLN	N-CA-C	7.09	121.19	112.54
1	A	106	GLY	O-C-N	7.08	131.91	122.70
4	M	308	SER	O-C-N	7.08	129.63	122.12
2	B	49	THR	CA-C-O	-7.08	112.10	120.10
3	S	145	ASN	CA-C-O	-7.08	112.37	120.58
1	A	126	ASN	O-C-N	7.08	131.53	122.33
1	A	413	SER	CA-C-N	-7.07	107.18	121.18
1	A	413	SER	C-N-CA	-7.07	107.18	121.18
4	M	364	VAL	N-CA-C	-7.07	106.24	113.10
1	A	593	THR	O-C-N	7.07	131.46	123.05
1	A	179	LYS	O-C-N	7.06	130.20	122.15
1	A	585	PHE	CA-C-O	-7.06	112.12	120.10
3	S	152	SER	CA-C-O	-7.06	112.12	120.10
1	A	119	ASP	O-C-N	7.06	130.48	122.22
3	S	102	ILE	CA-C-O	-7.06	111.96	120.78
1	A	368	ARG	CA-C-O	-7.06	113.07	120.55
2	B	133	GLU	O-C-N	7.05	131.40	122.23
2	B	275	ARG	CA-C-N	7.05	132.88	121.74
2	B	275	ARG	C-N-CA	7.05	132.88	121.74
1	A	187	LYS	CA-C-O	-7.04	112.14	120.10
3	S	58	LEU	N-CA-CB	7.04	122.03	110.69
1	A	268	PRO	O-C-N	7.04	132.14	122.64
2	B	354	GLY	CA-C-N	7.04	131.01	120.31
2	B	354	GLY	C-N-CA	7.04	131.01	120.31
2	B	436	LEU	O-C-N	7.03	131.94	122.59
4	M	339	GLU	CA-C-O	7.03	128.72	120.70
2	B	556	LEU	O-C-N	7.03	129.57	122.12
4	M	94	GLU	CA-C-O	-7.03	113.10	120.55
1	A	630	PRO	O-C-N	7.03	131.86	122.30
3	S	25	LEU	N-CA-C	-7.03	103.18	113.16
2	B	112	ASP	CA-C-N	7.02	126.27	118.97
2	B	112	ASP	C-N-CA	7.02	126.27	118.97
3	S	5	VAL	CA-C-O	7.02	130.59	121.32
2	B	566	ALA	CB-CA-C	7.02	120.22	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	87	LEU	O-C-N	7.01	131.35	122.23
2	B	159	LYS	O-C-N	7.01	129.55	122.12
1	A	220	SER	CA-C-O	-7.01	113.40	120.90
2	B	348	THR	CA-C-N	-7.01	109.66	120.31
2	B	348	THR	C-N-CA	-7.01	109.66	120.31
4	M	326	HIS	CA-C-O	7.01	128.08	120.58
1	A	178	ARG	O-C-N	7.01	130.89	122.27
1	A	347	ASP	CA-C-N	7.01	130.37	120.28
1	A	347	ASP	C-N-CA	7.01	130.37	120.28
2	B	402	LEU	CA-C-N	7.00	130.91	120.69
2	B	402	LEU	C-N-CA	7.00	130.91	120.69
1	A	471	SER	N-CA-C	7.00	118.99	111.36
1	A	430	ASN	CA-C-O	-6.99	112.20	120.10
2	B	464	SER	CA-C-O	-6.99	114.02	121.99
2	B	542	PRO	O-C-N	6.99	130.28	122.24
4	M	352	GLN	CA-C-N	6.99	132.12	123.10
4	M	352	GLN	C-N-CA	6.99	132.12	123.10
1	A	221	VAL	O-C-N	6.99	128.76	121.91
1	A	466	ASP	N-CA-C	-6.99	96.40	107.93
2	B	229	HIS	N-CA-C	6.99	122.05	112.90
1	A	101	GLN	O-C-N	6.98	129.63	122.09
1	A	621	LEU	CA-C-O	6.97	129.71	120.16
1	A	85	ALA	O-C-N	6.97	131.29	122.23
3	S	144	THR	CA-C-O	6.97	127.12	119.24
1	A	410	TYR	CA-C-N	6.97	132.50	120.58
1	A	410	TYR	C-N-CA	6.97	132.50	120.58
1	A	393	LYS	O-C-N	6.96	129.50	122.12
1	A	595	GLU	CA-C-O	-6.96	113.17	120.55
2	B	572	GLU	N-CA-C	6.96	121.00	112.23
2	B	448	SER	CA-C-O	-6.96	113.17	120.55
1	A	533	ILE	O-C-N	6.96	130.43	121.94
1	A	84	MET	CA-C-O	6.96	127.60	119.32
4	M	388	ASN	CA-C-N	-6.95	112.85	123.14
4	M	388	ASN	C-N-CA	-6.95	112.85	123.14
1	A	378	ILE	N-CA-C	6.95	120.49	113.47
3	S	109	LEU	N-CA-C	-6.95	103.64	111.14
2	B	528	ASP	CA-C-O	-6.95	111.50	119.14
1	A	126	ASN	CA-C-O	-6.94	111.42	119.61
1	A	195	ALA	CA-C-N	6.94	130.27	120.28
1	A	195	ALA	C-N-CA	6.94	130.27	120.28
2	B	176	ALA	O-C-N	6.94	131.82	122.59
2	B	325	LEU	N-CA-C	-6.94	104.68	113.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	124	ILE	CA-C-O	-6.94	111.63	120.03
2	B	179	LYS	CA-C-O	-6.93	110.59	120.51
2	B	294	VAL	N-CA-C	-6.93	102.57	112.35
2	B	481	LYS	N-CA-C	6.93	121.98	112.90
2	B	577	ASN	N-CA-CB	-6.93	101.42	111.20
1	A	95	MET	N-CA-C	-6.93	103.50	112.23
3	S	47	GLN	CA-C-N	-6.93	111.04	120.82
3	S	47	GLN	C-N-CA	-6.93	111.04	120.82
4	M	398	ILE	O-C-N	-6.93	112.95	122.59
4	M	118	TYR	N-CA-C	-6.93	102.94	111.33
4	M	131	ALA	CA-C-N	6.92	134.98	121.41
4	M	131	ALA	C-N-CA	6.92	134.98	121.41
1	A	219	VAL	O-C-N	6.92	130.89	121.90
2	B	574	ASN	N-CA-C	-6.92	104.72	113.72
1	A	433	ILE	O-C-N	6.92	129.09	121.90
4	M	95	THR	O-C-N	6.91	130.31	122.22
1	A	528	ASN	O-C-N	-6.91	113.40	122.59
2	B	473	ASN	CA-C-O	-6.91	112.29	120.10
2	B	514	LEU	O-C-N	6.90	130.55	122.20
1	A	214	VAL	CA-C-N	6.90	129.39	120.56
1	A	214	VAL	C-N-CA	6.90	129.39	120.56
2	B	517	GLU	CA-C-N	-6.90	109.55	121.97
2	B	517	GLU	C-N-CA	-6.90	109.55	121.97
4	M	55	MET	O-C-N	-6.90	114.37	122.86
2	B	124	GLN	O-C-N	6.90	129.17	122.07
2	B	597	TYR	O-C-N	6.90	130.06	122.20
3	S	124	ASN	O-C-N	6.89	131.44	122.20
1	A	170	LEU	CA-C-N	-6.89	111.63	122.65
1	A	170	LEU	C-N-CA	-6.89	111.63	122.65
1	A	468	SER	CA-C-O	-6.89	111.15	119.49
2	B	537	PHE	N-CA-C	6.89	118.44	111.07
4	M	277	GLU	CA-C-O	6.89	127.90	120.32
1	A	65	ASN	CA-C-N	6.88	130.07	120.29
1	A	65	ASN	C-N-CA	6.88	130.07	120.29
1	A	175	PRO	O-C-N	6.88	131.46	122.24
1	A	80	TYR	CB-CA-C	6.88	121.15	109.80
1	A	382	ASP	O-C-N	6.88	130.27	122.22
1	A	526	VAL	CA-C-N	6.88	134.67	121.54
1	A	526	VAL	C-N-CA	6.88	134.67	121.54
2	B	496	LEU	O-C-N	6.87	132.12	122.36
2	B	80	GLN	N-CA-C	6.87	119.61	111.71
4	M	95	THR	N-CA-C	-6.87	103.81	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	472	VAL	N-CA-C	-6.86	104.08	110.53
3	S	78	LYS	O-C-N	-6.86	114.50	123.28
2	B	398	ILE	O-C-N	6.86	131.15	122.57
4	M	303	SER	CA-C-N	-6.86	114.12	122.90
4	M	303	SER	C-N-CA	-6.86	114.12	122.90
1	A	74	LEU	O-C-N	6.86	129.13	122.07
4	M	243	ILE	CA-C-N	-6.85	113.95	122.93
4	M	243	ILE	C-N-CA	-6.85	113.95	122.93
2	B	255	TYR	CA-C-N	6.85	129.46	120.28
2	B	255	TYR	C-N-CA	6.85	129.46	120.28
1	A	115	TYR	CA-C-N	6.84	134.62	121.54
1	A	115	TYR	C-N-CA	6.84	134.62	121.54
3	S	125	TRP	O-C-N	6.84	129.12	122.07
4	M	135	ASN	N-CA-CB	6.84	121.57	110.42
2	B	231	ARG	CA-C-O	-6.84	110.73	120.51
1	A	154	ILE	CB-CA-C	-6.84	102.51	111.88
2	B	156	HIS	O-C-N	6.84	131.68	122.59
3	S	104	THR	CA-C-O	-6.83	111.28	119.27
2	B	509	ALA	O-C-N	6.83	129.36	122.12
2	B	487	LEU	CA-C-O	-6.82	112.56	120.20
2	B	560	ILE	CA-C-O	6.82	129.31	120.78
2	B	179	LYS	O-C-N	6.82	131.65	122.59
2	B	404	ASN	N-CA-C	-6.81	99.42	108.34
2	B	317	VAL	N-CA-C	-6.81	102.08	111.89
2	B	345	ARG	CA-C-O	-6.81	110.77	120.51
2	B	87	VAL	CA-C-N	-6.81	111.05	120.38
2	B	87	VAL	C-N-CA	-6.81	111.05	120.38
1	A	418	ILE	N-CA-CB	-6.80	102.91	111.41
4	M	384	GLY	O-C-N	6.80	131.84	123.61
1	A	236	LEU	CA-C-O	-6.80	111.09	119.18
3	S	80	TYR	O-C-N	-6.80	112.66	122.99
2	B	275	ARG	N-CA-CB	6.79	120.89	110.49
4	M	281	GLY	CA-C-N	6.79	130.06	120.42
4	M	281	GLY	C-N-CA	6.79	130.06	120.42
2	B	74	ASP	N-CA-C	-6.78	98.61	109.39
2	B	254	LYS	O-C-N	6.78	130.37	122.17
1	A	510	THR	O-C-N	6.77	129.05	122.07
2	B	113	PRO	CA-C-N	-6.77	111.20	120.28
2	B	113	PRO	C-N-CA	-6.77	111.20	120.28
3	S	47	GLN	CA-C-O	6.77	128.48	120.70
4	M	77	LEU	O-C-N	-6.77	114.39	123.19
2	B	541	GLY	CA-C-N	6.76	127.03	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	541	GLY	C-N-CA	6.76	127.03	119.32
2	B	194	ASP	O-C-N	6.76	131.58	122.59
2	B	211	ALA	CA-C-N	6.76	129.12	120.88
2	B	211	ALA	C-N-CA	6.76	129.12	120.88
4	M	86	PRO	CA-C-O	-6.76	109.54	118.86
1	A	84	MET	N-CA-C	-6.75	104.25	113.30
1	A	187	LYS	O-C-N	6.75	130.12	122.22
1	A	329	ASN	CA-C-O	-6.75	113.26	120.42
3	S	34	GLN	O-C-N	6.75	131.17	122.39
1	A	393	LYS	CA-C-N	-6.75	110.56	120.28
1	A	393	LYS	C-N-CA	-6.75	110.56	120.28
2	B	432	ALA	CA-C-O	-6.75	110.86	120.51
3	S	6	LEU	CA-C-O	6.75	127.81	120.32
1	A	418	ILE	CA-C-O	-6.74	112.92	120.74
2	B	510	GLY	CA-C-O	-6.74	108.84	120.57
4	M	4	SER	CA-C-N	-6.74	111.00	122.33
4	M	4	SER	C-N-CA	-6.74	111.00	122.33
2	B	222	HIS	N-CA-C	6.74	125.15	110.80
4	M	447	ILE	O-C-N	-6.74	114.15	122.57
1	A	439	ASP	CA-C-O	6.74	129.84	119.80
1	A	548	GLN	O-C-N	6.73	129.26	122.12
2	B	287	GLU	CA-C-O	6.73	128.37	120.69
1	A	239	LEU	O-C-N	6.73	130.98	122.23
1	A	199	ASN	O-C-N	6.72	131.65	122.37
1	A	459	MET	CA-C-O	-6.72	113.78	120.70
1	A	438	ALA	CA-C-O	-6.72	114.43	121.55
1	A	168	THR	CA-C-N	6.72	129.83	120.29
1	A	168	THR	C-N-CA	6.72	129.83	120.29
1	A	193	PRO	O-C-N	6.72	130.88	122.22
1	A	275	LEU	CA-C-O	6.72	124.51	118.33
2	B	193	LEU	CA-C-O	-6.71	110.49	120.42
2	B	563	PHE	O-C-N	6.71	130.64	121.92
2	B	280	PRO	CA-C-N	6.71	132.05	120.58
2	B	280	PRO	C-N-CA	6.71	132.05	120.58
4	M	121	ILE	O-C-N	6.71	132.10	122.04
1	A	168	THR	CA-C-O	-6.70	113.45	120.55
1	A	188	VAL	CA-C-N	6.70	130.16	120.38
1	A	188	VAL	C-N-CA	6.70	130.16	120.38
3	S	89	VAL	CA-C-N	-6.69	108.63	122.07
3	S	89	VAL	C-N-CA	-6.69	108.63	122.07
4	M	477	GLY	N-CA-C	6.68	122.23	110.80
2	B	518	ILE	O-C-N	6.68	130.92	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	630	PRO	CA-C-O	-6.67	109.66	119.00
4	M	364	VAL	CA-C-N	-6.67	111.37	120.44
4	M	364	VAL	C-N-CA	-6.67	111.37	120.44
2	B	232	ARG	CA-C-O	-6.67	110.97	120.51
1	A	629	LEU	N-CA-C	-6.66	104.98	113.77
3	S	124	ASN	CA-C-O	-6.66	112.46	120.65
1	A	105	VAL	CA-C-N	6.65	134.45	121.41
1	A	105	VAL	C-N-CA	6.65	134.45	121.41
1	A	267	GLU	CA-C-O	-6.65	111.05	120.16
2	B	419	VAL	CA-C-N	-6.65	109.96	120.60
2	B	419	VAL	C-N-CA	-6.65	109.96	120.60
2	B	422	ALA	N-CA-CB	6.65	119.87	110.36
2	B	349	MET	CA-C-N	-6.65	110.77	122.07
2	B	349	MET	C-N-CA	-6.65	110.77	122.07
1	A	181	ALA	CA-C-O	-6.65	112.59	120.10
1	A	80	TYR	CA-C-O	-6.65	113.55	121.66
3	S	156	LEU	CA-C-O	-6.65	111.95	119.79
3	S	53	THR	C-N-CD	6.64	152.22	125.00
1	A	276	PRO	O-C-N	-6.64	113.31	122.27
1	A	314	ALA	CA-C-O	-6.63	113.52	120.55
2	B	216	LYS	O-C-N	-6.63	113.55	122.43
4	M	256	VAL	CA-C-N	-6.63	112.78	122.65
4	M	256	VAL	C-N-CA	-6.63	112.78	122.65
2	B	242	SER	N-CA-C	6.62	124.90	110.80
4	M	278	ILE	CA-C-N	-6.62	108.90	121.54
4	M	278	ILE	C-N-CA	-6.62	108.90	121.54
4	M	324	SER	CA-C-N	-6.62	112.68	122.41
4	M	324	SER	C-N-CA	-6.62	112.68	122.41
1	A	294	SER	CA-C-O	-6.62	112.62	120.10
1	A	470	GLY	CA-C-O	-6.61	111.69	119.50
4	M	103	TYR	N-CA-CB	6.61	120.61	110.49
1	A	623	MET	CA-C-O	-6.61	113.42	120.42
2	B	146	LYS	CA-C-O	-6.61	112.98	121.11
2	B	32	GLU	O-C-N	6.61	130.16	122.17
2	B	118	LEU	CA-C-O	-6.59	113.56	120.55
2	B	35	TYR	CA-C-O	-6.58	111.10	120.51
4	M	59	ASP	O-C-N	-6.58	113.38	122.46
4	M	453	ASP	O-C-N	-6.58	115.57	123.27
2	B	392	SER	CA-C-O	-6.58	112.41	119.97
2	B	241	ASP	CA-C-O	-6.58	113.11	120.54
1	A	444	VAL	CB-CA-C	6.58	119.70	111.15
3	S	164	ASP	O-C-N	-6.58	113.84	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	377	TYR	O-C-N	6.57	129.06	122.10
3	S	13	GLN	CA-C-N	-6.57	113.53	120.03
3	S	13	GLN	C-N-CA	-6.57	113.53	120.03
2	B	406	SER	CA-C-N	-6.56	111.94	122.24
2	B	406	SER	C-N-CA	-6.56	111.94	122.24
4	M	402	SER	N-CA-C	-6.56	104.32	113.37
2	B	76	SER	N-CA-C	-6.56	105.27	113.20
1	A	352	PHE	CA-C-O	-6.55	112.22	119.95
1	A	88	ASN	O-C-N	-6.55	113.71	122.23
2	B	69	ILE	CA-C-N	-6.54	109.04	121.54
2	B	69	ILE	C-N-CA	-6.54	109.04	121.54
4	M	127	CYS	CA-C-N	-6.54	112.18	122.65
4	M	127	CYS	C-N-CA	-6.54	112.18	122.65
1	A	65	ASN	CA-C-O	-6.54	112.45	119.97
1	A	568	GLU	CA-C-N	6.54	134.02	121.54
1	A	568	GLU	C-N-CA	6.54	134.02	121.54
1	A	143	VAL	CA-C-O	-6.53	114.24	121.17
2	B	127	LEU	CA-C-N	-6.53	108.25	121.18
2	B	127	LEU	C-N-CA	-6.53	108.25	121.18
1	A	261	THR	O-C-N	6.53	129.04	122.12
2	B	499	VAL	CA-C-O	6.53	128.72	120.96
3	S	1	MET	CA-C-O	6.53	131.89	120.80
2	B	598	LEU	CA-C-O	-6.52	111.36	119.38
2	B	507	ALA	CA-C-N	6.52	129.02	120.28
2	B	507	ALA	C-N-CA	6.52	129.02	120.28
1	A	297	CYS	CA-C-N	-6.52	111.17	120.42
1	A	297	CYS	C-N-CA	-6.52	111.17	120.42
1	A	447	PHE	CA-C-O	-6.52	113.99	120.70
3	S	1	MET	O-C-N	-6.52	112.57	123.00
1	A	585	PHE	O-C-N	6.52	129.84	122.22
4	M	254	PRO	CA-C-N	6.51	132.36	122.65
4	M	254	PRO	C-N-CA	6.51	132.36	122.65
2	B	254	LYS	CA-C-O	-6.51	113.59	120.55
4	M	51	LEU	N-CA-CB	-6.50	99.50	110.49
1	A	177	ILE	N-CA-C	-6.50	103.92	111.00
3	S	56	SER	CA-C-N	6.50	132.69	122.49
3	S	56	SER	C-N-CA	6.50	132.69	122.49
2	B	222	HIS	O-C-N	6.50	131.23	122.59
2	B	471	TYR	CA-C-N	6.50	128.88	120.56
2	B	471	TYR	C-N-CA	6.50	128.88	120.56
4	M	49	ASP	CA-C-N	6.50	129.87	120.38
4	M	49	ASP	C-N-CA	6.50	129.87	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	165	PRO	N-CA-C	6.50	122.28	113.84
4	M	432	THR	CA-C-N	-6.49	114.25	122.43
4	M	432	THR	C-N-CA	-6.49	114.25	122.43
4	M	384	GLY	CA-C-O	-6.49	115.24	121.41
1	A	230	PRO	O-C-N	6.49	130.94	122.24
2	B	220	ALA	CB-CA-C	6.49	121.19	110.81
4	M	52	ASP	N-CA-CB	-6.48	101.97	110.59
1	A	503	ASN	N-CA-C	-6.48	104.30	111.36
4	M	95	THR	CA-C-O	-6.47	112.78	120.10
1	A	586	GLU	CA-C-O	6.47	127.28	120.42
3	S	149	ILE	CA-C-O	-6.47	114.22	120.95
2	B	34	SER	O-C-N	6.46	131.19	122.59
1	A	210	ASP	N-CA-C	6.46	119.14	111.71
2	B	108	PHE	CA-C-N	-6.46	109.20	121.54
2	B	108	PHE	C-N-CA	-6.46	109.20	121.54
4	M	106	LYS	CA-C-N	-6.46	109.20	121.54
4	M	106	LYS	C-N-CA	-6.46	109.20	121.54
4	M	238	GLY	CA-C-N	-6.46	113.65	122.95
4	M	238	GLY	C-N-CA	-6.46	113.65	122.95
1	A	92	LEU	O-C-N	6.45	128.72	122.07
2	B	533	LEU	O-C-N	6.45	131.01	122.30
4	M	309	GLN	CA-C-O	-6.45	114.05	120.82
1	A	437	SER	CA-C-N	6.45	130.48	120.75
1	A	437	SER	C-N-CA	6.45	130.48	120.75
1	A	500	SER	O-C-N	-6.45	113.26	122.41
3	S	76	ILE	CA-C-O	6.45	127.43	120.53
2	B	301	LEU	CA-C-O	-6.44	111.70	119.49
4	M	363	ASN	CA-C-N	-6.43	113.78	122.72
4	M	363	ASN	C-N-CA	-6.43	113.78	122.72
3	S	104	THR	CA-C-N	6.42	131.43	120.71
3	S	104	THR	C-N-CA	6.42	131.43	120.71
4	M	89	CYS	O-C-N	6.42	130.57	122.23
4	M	225	VAL	O-C-N	6.42	131.60	122.62
2	B	191	GLU	CA-C-O	-6.41	113.69	120.55
1	A	144	GLY	O-C-N	6.41	131.03	122.70
1	A	218	ALA	CA-C-N	6.41	129.90	120.74
1	A	218	ALA	C-N-CA	6.41	129.90	120.74
1	A	199	ASN	CA-C-O	-6.40	111.53	119.28
3	S	54	PRO	O-C-N	-6.40	113.90	121.46
3	S	17	VAL	CA-C-N	-6.40	113.34	122.94
3	S	17	VAL	C-N-CA	-6.40	113.34	122.94
3	S	38	LEU	CA-C-O	-6.40	111.75	119.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	S	115	GLU	CA-C-O	6.40	129.41	120.52
2	B	94	ASP	O-C-N	6.39	130.88	123.02
4	M	227	GLU	CA-C-N	-6.39	112.03	121.24
4	M	227	GLU	C-N-CA	-6.39	112.03	121.24
2	B	205	PRO	N-CA-C	-6.39	105.02	113.65
2	B	45	GLN	O-C-N	6.39	130.13	122.27
2	B	485	LYS	CA-C-O	-6.39	111.72	119.32
1	A	541	SER	CA-C-N	-6.39	112.00	122.54
1	A	541	SER	C-N-CA	-6.39	112.00	122.54
2	B	308	CYS	O-C-N	6.39	128.73	122.09
2	B	557	SER	CA-C-O	6.38	129.64	120.51
1	A	544	SER	O-C-N	6.38	130.07	122.79
4	M	390	ILE	N-CA-C	6.38	117.17	110.72
3	S	117	ASN	O-C-N	6.38	132.07	122.94
1	A	620	GLY	O-C-N	6.38	131.03	122.48
1	A	530	ASN	CA-C-O	-6.38	114.12	120.82
2	B	356	LYS	N-CA-C	-6.37	104.34	111.28
4	M	69	ILE	CA-C-N	-6.37	114.01	122.99
4	M	69	ILE	C-N-CA	-6.37	114.01	122.99
2	B	96	LYS	CA-C-O	-6.36	113.81	120.55
4	M	400	ASP	O-C-N	6.36	130.36	122.86
4	M	223	HIS	CA-C-N	-6.36	114.10	122.94
4	M	223	HIS	C-N-CA	-6.36	114.10	122.94
4	M	104	PHE	N-CA-C	6.36	124.34	110.80
4	M	11	LYS	CA-C-N	6.35	133.67	121.54
4	M	11	LYS	C-N-CA	6.35	133.67	121.54
3	S	114	THR	N-CA-C	6.35	120.13	112.38
1	A	534	LYS	N-CA-CB	6.35	119.40	109.69
3	S	59	LEU	CA-C-O	6.34	128.10	120.81
1	A	637	GLU	N-CA-C	-6.34	105.40	113.01
2	B	46	GLN	CA-C-O	-6.34	112.68	119.97
1	A	441	TYR	N-CA-C	-6.33	97.31	110.80
2	B	114	ASN	O-C-N	6.33	128.83	122.12
1	A	510	THR	CA-C-O	-6.33	114.18	120.82
1	A	548	GLN	CA-C-O	-6.33	113.80	120.63
2	B	25	VAL	CA-C-N	-6.33	109.46	121.54
2	B	25	VAL	C-N-CA	-6.33	109.46	121.54
4	M	457	GLY	O-C-N	6.33	129.91	122.38
1	A	259	LEU	O-C-N	6.32	128.58	122.07
1	A	416	ILE	C-N-CD	6.32	150.93	125.00
2	B	49	THR	O-C-N	6.32	129.62	122.22
1	A	355	LEU	CA-C-O	-6.32	112.70	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	273	HIS	CA-C-O	-6.32	114.54	121.87
1	A	625	LEU	CA-C-N	-6.31	106.75	121.52
1	A	625	LEU	C-N-CA	-6.31	106.75	121.52
2	B	463	LEU	N-CA-C	6.31	120.33	110.17
1	A	326	GLN	N-CA-C	6.31	118.97	111.71
3	S	81	ALA	CB-CA-C	6.31	122.97	110.42
2	B	53	SER	N-CA-C	-6.31	101.15	110.48
1	A	345	ASN	O-C-N	6.30	130.59	123.28
2	B	484	THR	CA-C-N	-6.30	112.73	122.49
2	B	484	THR	C-N-CA	-6.30	112.73	122.49
1	A	513	ARG	O-C-N	6.29	128.89	122.09
2	B	57	ARG	CA-C-O	-6.29	113.88	120.55
4	M	316	ARG	CA-C-N	-6.29	109.53	121.54
4	M	316	ARG	C-N-CA	-6.29	109.53	121.54
4	M	106	LYS	CA-C-O	6.28	129.49	120.51
2	B	375	LEU	CA-C-N	-6.28	111.99	119.84
2	B	375	LEU	C-N-CA	-6.28	111.99	119.84
1	A	566	PHE	O-C-N	6.28	130.94	122.59
1	A	420	ILE	N-CA-C	6.28	122.44	108.88
1	A	118	SER	N-CA-C	6.27	118.19	111.36
4	M	466	LEU	CA-C-N	6.27	132.84	121.06
4	M	466	LEU	C-N-CA	6.27	132.84	121.06
2	B	188	TYR	N-CA-C	6.26	121.86	113.72
4	M	293	PRO	CA-C-N	-6.26	109.44	122.03
4	M	293	PRO	C-N-CA	-6.26	109.44	122.03
2	B	497	LEU	CA-C-O	6.26	127.18	119.79
2	B	253	ILE	O-C-N	6.26	133.80	121.91
4	M	53	HIS	CA-C-O	-6.26	113.05	120.43
2	B	345	ARG	O-C-N	6.25	130.91	122.59
2	B	384	PHE	CA-C-N	6.25	125.95	119.82
2	B	384	PHE	C-N-CA	6.25	125.95	119.82
3	S	123	PHE	CA-C-N	-6.25	112.59	122.79
3	S	123	PHE	C-N-CA	-6.25	112.59	122.79
1	A	501	ASN	N-CA-CB	6.25	120.48	110.16
2	B	28	SER	CA-C-N	6.25	131.03	122.34
2	B	28	SER	C-N-CA	6.25	131.03	122.34
4	M	469	GLY	CA-C-N	-6.25	109.60	121.54
4	M	469	GLY	C-N-CA	-6.25	109.60	121.54
2	B	399	LEU	CA-C-O	6.25	129.45	120.51
4	M	234	ARG	O-C-N	-6.24	114.34	122.77
1	A	505	ASN	O-C-N	-6.24	113.97	122.33
4	M	46	SER	O-C-N	-6.24	113.32	122.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	184	GLY	CA-C-O	6.24	131.42	120.57
2	B	377	TYR	CA-C-O	-6.24	111.44	118.55
1	A	65	ASN	O-C-N	6.23	129.94	122.27
1	A	633	PHE	N-CA-C	-6.23	103.63	111.11
2	B	273	SER	N-CA-CB	-6.23	100.18	109.90
2	B	399	LEU	O-C-N	-6.23	114.30	122.59
1	A	354	GLN	CA-C-O	-6.23	113.95	120.55
1	A	586	GLU	N-CA-C	-6.23	104.57	111.36
2	B	585	GLY	CA-C-O	-6.23	109.73	120.57
2	B	85	ASP	O-C-N	6.22	130.67	122.33
1	A	244	LEU	CA-C-N	-6.22	110.82	121.09
1	A	244	LEU	C-N-CA	-6.22	110.82	121.09
4	M	118	TYR	O-C-N	6.22	128.71	122.12
2	B	375	LEU	CA-C-O	6.21	128.67	120.16
1	A	218	ALA	CB-CA-C	6.21	122.12	110.63
1	A	380	ASP	O-C-N	6.21	131.22	123.15
2	B	261	PRO	N-CA-C	-6.21	99.69	112.47
2	B	336	ASN	O-C-N	6.21	130.85	122.59
4	M	339	GLU	CA-C-N	-6.20	114.23	122.85
4	M	339	GLU	C-N-CA	-6.20	114.23	122.85
4	M	8	THR	N-CA-C	-6.19	99.67	109.07
1	A	194	GLU	O-C-N	6.18	128.67	122.12
2	B	69	ILE	O-C-N	-6.18	114.84	122.57
2	B	465	ALA	N-CA-C	6.18	117.81	111.14
4	M	361	GLN	CA-C-N	-6.18	114.33	123.11
4	M	361	GLN	C-N-CA	-6.18	114.33	123.11
2	B	165	PRO	CA-C-N	6.18	130.34	121.50
2	B	165	PRO	C-N-CA	6.18	130.34	121.50
4	M	337	GLU	CA-C-N	-6.18	114.47	123.00
4	M	337	GLU	C-N-CA	-6.18	114.47	123.00
2	B	307	ASN	CA-C-O	-6.18	114.52	121.00
1	A	468	SER	O-C-N	6.17	130.42	122.39
1	A	351	ARG	CA-C-N	-6.17	112.86	122.67
1	A	351	ARG	C-N-CA	-6.17	112.86	122.67
2	B	274	PRO	N-CA-C	-6.17	99.76	112.47
4	M	461	GLY	CA-C-N	-6.17	111.15	121.39
4	M	461	GLY	C-N-CA	-6.17	111.15	121.39
1	A	445	ASN	CA-C-N	-6.16	114.22	122.42
1	A	445	ASN	C-N-CA	-6.16	114.22	122.42
4	M	357	LYS	CA-C-N	-6.16	115.13	122.22
4	M	357	LYS	C-N-CA	-6.16	115.13	122.22
1	A	397	ASP	O-C-N	-6.16	113.61	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	482	ILE	N-CA-C	-6.16	104.74	110.53
4	M	80	THR	CB-CA-C	-6.16	99.17	109.27
3	S	63	ASN	CA-C-O	-6.16	113.71	120.30
3	S	125	TRP	N-CA-C	-6.16	104.48	111.07
1	A	620	GLY	CA-C-O	-6.16	109.30	119.15
2	B	146	LYS	O-C-N	-6.15	115.46	122.84
4	M	8	THR	CA-C-O	-6.15	114.69	121.33
4	M	84	LYS	CA-C-N	6.15	131.53	121.87
4	M	84	LYS	C-N-CA	6.15	131.53	121.87
1	A	375	VAL	N-CA-C	-6.15	103.61	110.62
4	M	397	TRP	CA-C-N	-6.15	115.33	122.95
4	M	397	TRP	C-N-CA	-6.15	115.33	122.95
3	S	93	GLU	N-CA-C	-6.14	99.64	109.96
1	A	378	ILE	CB-CA-C	-6.13	104.00	110.62
4	M	368	ASP	CA-C-N	6.13	127.51	119.84
4	M	368	ASP	C-N-CA	6.13	127.51	119.84
4	M	112	LYS	CA-C-O	-6.13	112.56	119.79
1	A	419	ILE	CA-C-O	6.12	127.19	120.64
2	B	106	LEU	CA-C-O	-6.12	111.75	120.51
2	B	424	PHE	N-CA-C	6.12	117.36	109.65
4	M	405	THR	N-CA-CB	-6.11	100.17	110.49
1	A	278	ILE	O-C-N	-6.11	113.22	123.00
1	A	621	LEU	C-N-CD	6.10	150.01	125.00
2	B	557	SER	CA-C-N	-6.10	109.89	121.54
2	B	557	SER	C-N-CA	-6.10	109.89	121.54
2	B	279	LEU	CA-C-N	-6.09	114.00	120.03
2	B	279	LEU	C-N-CA	-6.09	114.00	120.03
1	A	629	LEU	C-N-CD	6.09	149.97	125.00
1	A	139	ASP	N-CA-C	6.09	118.88	111.82
1	A	617	ASP	N-CA-C	6.09	116.12	108.45
1	A	473	ILE	CA-C-N	-6.08	113.31	120.00
1	A	473	ILE	C-N-CA	-6.08	113.31	120.00
1	A	83	ASP	CA-C-N	-6.07	113.08	122.49
1	A	83	ASP	C-N-CA	-6.07	113.08	122.49
2	B	94	ASP	CA-C-O	-6.07	113.45	120.49
2	B	225	LEU	O-C-N	6.07	129.51	122.17
4	M	67	SER	CA-C-N	-6.07	113.09	122.68
4	M	67	SER	C-N-CA	-6.07	113.09	122.68
2	B	257	LYS	CA-C-N	-6.07	113.46	122.56
2	B	257	LYS	C-N-CA	-6.07	113.46	122.56
1	A	472	LYS	CA-C-O	-6.06	113.00	119.97
1	A	106	GLY	CA-C-O	-6.06	110.02	120.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	S	148	ARG	CA-C-O	-6.06	113.51	120.24
1	A	207	LEU	CA-C-N	-6.05	113.11	122.49
1	A	207	LEU	C-N-CA	-6.05	113.11	122.49
2	B	145	MET	O-C-N	-6.05	116.16	122.94
2	B	218	CYS	CA-C-N	6.05	132.24	120.99
2	B	218	CYS	C-N-CA	6.05	132.24	120.99
2	B	518	ILE	N-CA-C	6.05	121.92	109.34
2	B	562	ASN	O-C-N	6.05	131.26	122.43
1	A	449	TRP	CA-C-O	-6.04	111.87	120.51
4	M	132	GLY	O-C-N	6.04	130.56	122.70
1	A	320	HIS	N-CA-C	-6.04	104.77	111.36
1	A	411	GLU	N-CA-C	6.04	119.12	111.69
2	B	572	GLU	CA-C-O	-6.04	112.66	119.79
1	A	535	ILE	O-C-N	-6.04	113.34	123.00
4	M	302	TYR	CA-C-N	-6.04	114.54	123.11
4	M	302	TYR	C-N-CA	-6.04	114.54	123.11
1	A	632	PHE	CA-C-O	-6.04	111.88	120.51
1	A	259	LEU	CA-C-O	-6.03	114.48	120.82
2	B	115	LEU	CA-C-O	-6.03	113.03	119.97
1	A	172	SER	CA-C-N	-6.03	108.66	121.32
1	A	172	SER	C-N-CA	-6.03	108.66	121.32
2	B	423	HIS	CA-C-N	-6.03	109.49	120.94
2	B	423	HIS	C-N-CA	-6.03	109.49	120.94
1	A	192	TYR	N-CA-C	6.02	123.12	109.81
2	B	523	PHE	CA-C-O	6.02	129.12	120.51
2	B	577	ASN	C-N-CD	6.01	149.66	125.00
1	A	541	SER	N-CA-C	6.01	120.08	112.87
4	M	266	ASP	O-C-N	6.01	130.58	122.59
1	A	323	CYS	O-C-N	-6.01	114.44	122.43
4	M	354	ASP	CB-CA-C	6.00	121.24	109.35
4	M	453	ASP	CA-C-N	-6.00	114.62	122.37
4	M	453	ASP	C-N-CA	-6.00	114.62	122.37
1	A	164	ASP	O-C-N	6.00	130.47	122.43
2	B	313	SER	N-CA-C	6.00	123.58	110.80
2	B	584	SER	CA-C-O	6.00	126.75	119.31
4	M	234	ARG	CA-C-O	6.00	127.76	120.62
1	A	173	THR	N-CA-C	-5.99	102.46	110.55
2	B	265	VAL	O-C-N	5.99	128.78	122.67
4	M	372	ILE	CB-CA-C	-5.99	106.51	113.22
1	A	203	PHE	CA-C-O	-5.99	114.53	120.82
2	B	583	PHE	O-C-N	5.98	130.20	122.43
3	S	84	TYR	CA-C-N	-5.98	114.56	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	S	84	TYR	C-N-CA	-5.98	114.56	122.99
4	M	61	GLU	N-CA-CB	5.98	120.17	110.43
1	A	364	ASP	CA-C-O	-5.97	113.56	120.49
1	A	627	GLU	CA-C-O	-5.96	112.73	120.00
2	B	122	SER	CA-C-O	-5.96	113.11	119.97
2	B	533	LEU	CA-C-O	-5.96	112.86	120.31
3	S	24	ASP	CA-C-O	-5.96	113.90	120.69
1	A	535	ILE	CA-C-O	-5.95	110.68	120.80
4	M	253	ASN	N-CA-C	5.95	122.97	109.81
1	A	231	GLN	CA-C-N	5.95	127.28	119.84
1	A	231	GLN	C-N-CA	5.95	127.28	119.84
1	A	288	THR	CA-C-O	-5.95	110.68	120.80
4	M	3	LEU	CA-C-N	-5.95	113.25	122.59
4	M	3	LEU	C-N-CA	-5.95	113.25	122.59
1	A	584	PHE	CA-C-O	-5.95	114.58	120.82
2	B	292	GLU	CA-C-O	5.94	126.81	119.97
2	B	133	GLU	CA-C-O	-5.94	113.65	120.24
2	B	378	THR	CA-C-O	-5.94	112.02	120.51
1	A	442	SER	CA-C-N	5.93	134.18	122.31
1	A	442	SER	C-N-CA	5.93	134.18	122.31
1	A	490	VAL	CA-C-O	-5.93	114.46	121.05
4	M	76	CYS	O-C-N	-5.92	116.16	123.33
2	B	262	LYS	C-N-CD	5.92	149.28	125.00
2	B	298	ASP	O-C-N	5.92	129.13	122.32
4	M	119	ASP	CA-C-O	-5.92	114.61	120.70
1	A	328	PRO	N-CA-C	-5.92	106.15	113.84
4	M	130	GLU	CB-CA-C	5.91	121.89	109.65
4	M	415	ILE	CA-C-N	-5.91	114.77	123.05
4	M	415	ILE	C-N-CA	-5.91	114.77	123.05
2	B	229	HIS	O-C-N	5.91	130.75	122.36
2	B	265	VAL	CA-C-N	5.91	130.46	122.90
2	B	265	VAL	C-N-CA	5.91	130.46	122.90
1	A	201	ASP	O-C-N	5.91	128.88	122.15
2	B	333	GLN	CA-C-O	-5.91	114.60	120.80
2	B	33	SER	O-C-N	5.90	131.92	122.42
1	A	176	TYR	O-C-N	5.90	129.90	122.23
1	A	194	GLU	CA-C-O	-5.90	114.26	120.63
2	B	149	SER	CA-C-N	-5.90	112.42	122.56
2	B	149	SER	C-N-CA	-5.90	112.42	122.56
3	S	2	ILE	CA-C-N	-5.89	111.72	121.92
3	S	2	ILE	C-N-CA	-5.89	111.72	121.92
3	S	67	GLU	N-CA-C	-5.89	102.60	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	506	ASN	O-C-N	5.89	130.22	122.33
4	M	44	ASP	N-CA-C	-5.89	104.68	112.34
4	M	375	LYS	CA-C-N	-5.89	115.10	123.11
4	M	375	LYS	C-N-CA	-5.89	115.10	123.11
1	A	192	TYR	O-C-N	5.88	128.09	121.32
2	B	478	LEU	CA-C-N	-5.88	111.18	120.47
2	B	478	LEU	C-N-CA	-5.88	111.18	120.47
1	A	595	GLU	O-C-N	5.88	128.35	122.12
4	M	341	SER	CA-C-N	-5.88	113.66	122.24
4	M	341	SER	C-N-CA	-5.88	113.66	122.24
4	M	260	LEU	CA-C-N	-5.87	112.04	122.07
4	M	260	LEU	C-N-CA	-5.87	112.04	122.07
2	B	397	GLN	O-C-N	5.86	128.88	122.20
3	S	81	ALA	CA-C-N	-5.86	112.87	122.54
3	S	81	ALA	C-N-CA	-5.86	112.87	122.54
4	M	237	THR	CA-C-O	5.86	128.02	121.40
2	B	571	SER	CA-C-N	-5.86	110.72	120.68
2	B	571	SER	C-N-CA	-5.86	110.72	120.68
4	M	388	ASN	CA-C-O	-5.85	113.88	120.32
2	B	309	LEU	N-CA-C	-5.85	104.90	111.28
3	S	70	ASN	O-C-N	-5.85	114.81	122.59
1	A	530	ASN	CA-C-N	-5.85	111.86	120.28
1	A	530	ASN	C-N-CA	-5.85	111.86	120.28
3	S	42	ARG	N-CA-C	-5.85	100.96	110.20
2	B	286	ILE	N-CA-CB	5.84	119.54	110.14
1	A	190	LEU	N-CA-C	-5.84	105.86	112.87
2	B	236	ILE	CA-C-N	5.84	132.48	121.97
2	B	236	ILE	C-N-CA	5.84	132.48	121.97
2	B	353	GLN	N-CA-C	5.84	123.23	110.80
2	B	90	ILE	N-CA-C	-5.83	103.80	111.09
1	A	234	ILE	N-CA-C	-5.83	103.49	111.89
2	B	212	VAL	N-CA-C	-5.83	105.44	110.74
1	A	161	ASP	O-C-N	5.83	129.81	122.23
2	B	266	VAL	CA-C-N	-5.83	115.26	122.84
2	B	266	VAL	C-N-CA	-5.83	115.26	122.84
4	M	386	PHE	O-C-N	-5.83	115.43	123.12
2	B	496	LEU	CA-C-O	-5.82	112.80	119.60
1	A	138	ASN	CA-C-O	-5.81	115.38	122.64
4	M	414	CYS	CA-C-N	-5.81	115.46	122.90
4	M	414	CYS	C-N-CA	-5.81	115.46	122.90
2	B	456	ASP	CA-C-N	5.81	128.34	120.44
2	B	456	ASP	C-N-CA	5.81	128.34	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	204	VAL	N-CA-C	-5.81	104.70	110.62
3	S	51	LEU	CA-C-O	-5.81	113.25	120.57
4	M	63	TYR	CD1-CG-CD2	5.81	126.81	118.10
2	B	536	ASN	CA-C-N	5.80	127.99	120.44
2	B	536	ASN	C-N-CA	5.80	127.99	120.44
3	S	139	GLY	CA-C-O	5.80	125.48	118.86
1	A	505	ASN	CA-C-N	-5.80	112.63	120.87
1	A	505	ASN	C-N-CA	-5.80	112.63	120.87
2	B	244	SER	N-CA-C	-5.80	105.70	112.89
2	B	354	GLY	N-CA-C	-5.80	99.44	113.18
1	A	533	ILE	N-CA-C	5.80	116.02	110.74
2	B	438	ARG	O-C-N	5.79	131.68	122.41
3	S	72	ASP	CA-C-N	-5.79	115.59	123.12
3	S	72	ASP	C-N-CA	-5.79	115.59	123.12
1	A	149	GLY	O-C-N	5.79	130.23	122.70
1	A	442	SER	N-CA-CB	5.79	119.26	110.28
3	S	63	ASN	N-CA-CB	5.79	119.68	110.65
2	B	561	ASP	O-C-N	5.79	130.29	122.59
1	A	66	SER	CA-C-N	5.77	128.01	120.28
1	A	66	SER	C-N-CA	5.77	128.01	120.28
1	A	469	LEU	N-CA-C	-5.77	105.07	111.36
1	A	118	SER	O-C-N	5.77	128.72	122.15
1	A	489	GLU	CA-C-O	-5.76	113.58	120.10
2	B	275	ARG	O-C-N	5.76	129.35	122.20
3	S	82	THR	N-CA-C	5.76	120.43	113.17
4	M	327	PHE	CA-C-N	-5.76	114.52	122.30
4	M	327	PHE	C-N-CA	-5.76	114.52	122.30
1	A	173	THR	CA-C-N	5.75	135.83	121.80
1	A	173	THR	C-N-CA	5.75	135.83	121.80
4	M	25	PRO	N-CA-C	-5.75	97.72	112.10
4	M	295	GLY	CA-C-N	5.75	128.93	120.82
4	M	295	GLY	C-N-CA	5.75	128.93	120.82
1	A	277	LYS	N-CA-C	5.75	118.56	108.56
1	A	544	SER	CA-C-N	5.75	127.98	120.28
1	A	544	SER	C-N-CA	5.75	127.98	120.28
2	B	298	ASP	CA-C-O	-5.75	113.61	120.56
3	S	21	THR	C-N-CD	5.75	148.56	125.00
2	B	269	SER	N-CA-C	5.75	119.99	113.15
1	A	329	ASN	O-C-N	5.74	128.70	122.15
1	A	231	GLN	CA-C-O	-5.74	112.30	120.16
1	A	202	LYS	CA-C-O	-5.73	113.38	119.97
4	M	93	LEU	O-C-N	5.73	128.28	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	145	MET	N-CA-C	-5.73	102.04	110.52
3	S	66	ASP	CA-C-O	5.73	127.22	120.58
2	B	297	PRO	O-C-N	5.71	130.35	122.64
2	B	433	VAL	O-C-N	5.71	132.29	121.84
4	M	279	ASN	O-C-N	-5.71	115.00	122.59
2	B	89	ASN	CA-C-O	-5.71	111.80	119.11
1	A	136	GLY	O-C-N	-5.71	115.28	122.70
4	M	384	GLY	N-CA-C	-5.71	102.92	111.19
2	B	88	LYS	CA-C-O	-5.70	114.47	120.63
2	B	378	THR	O-C-N	5.70	130.18	122.59
2	B	240	LEU	CA-C-N	-5.70	114.15	122.19
2	B	240	LEU	C-N-CA	-5.70	114.15	122.19
1	A	83	ASP	CA-C-O	5.70	127.54	121.16
3	S	89	VAL	O-C-N	-5.70	116.88	122.97
4	M	450	GLU	O-C-N	-5.69	114.12	122.43
1	A	358	ARG	CA-C-O	-5.69	113.67	120.10
1	A	543	TYR	CB-CG-CD2	5.69	129.34	120.80
4	M	4	SER	O-C-N	-5.69	115.75	123.15
2	B	205	PRO	CA-C-O	5.69	128.19	119.55
1	A	618	THR	N-CA-C	-5.68	105.37	112.93
4	M	41	LEU	CA-C-N	-5.68	112.11	120.28
4	M	41	LEU	C-N-CA	-5.68	112.11	120.28
1	A	508	LEU	N-CA-CB	-5.67	100.86	111.24
4	M	311	LYS	N-CA-C	-5.67	104.48	111.40
1	A	191	GLN	CA-C-N	5.67	135.63	121.80
1	A	191	GLN	C-N-CA	5.67	135.63	121.80
1	A	488	ARG	CA-C-N	5.67	128.44	120.28
1	A	488	ARG	C-N-CA	5.67	128.44	120.28
2	B	171	GLY	O-C-N	5.67	130.07	122.70
1	A	322	PHE	CA-C-N	5.66	131.52	120.99
1	A	322	PHE	C-N-CA	5.66	131.52	120.99
4	M	428	VAL	CA-C-N	-5.66	110.72	121.54
4	M	428	VAL	C-N-CA	-5.66	110.72	121.54
2	B	315	PRO	O-C-N	5.66	129.02	122.17
4	M	267	ILE	N-CA-C	-5.66	101.73	109.37
1	A	251	TRP	CA-C-O	-5.66	114.42	120.42
4	M	383	HIS	N-CA-C	5.66	122.85	110.80
1	A	98	ASN	N-CA-CB	5.65	118.31	110.17
1	A	310	GLU	O-C-N	5.65	127.97	122.09
2	B	316	THR	CA-C-O	-5.65	115.08	120.90
1	A	625	LEU	N-CA-C	-5.65	105.20	111.36
3	S	55	PRO	N-CA-C	5.64	121.17	113.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	446	TRP	CA-C-O	-5.63	112.73	119.15
4	M	434	SER	CA-C-N	-5.63	115.06	123.00
4	M	434	SER	C-N-CA	-5.63	115.06	123.00
1	A	497	LYS	O-C-N	5.63	128.08	122.12
2	B	466	SER	CA-C-O	-5.62	114.59	120.55
4	M	377	LYS	O-C-N	-5.62	115.85	122.32
2	B	262	LYS	N-CA-C	5.62	122.24	109.81
2	B	397	GLN	CA-C-O	-5.62	113.90	120.20
4	M	259	LYS	CA-C-N	-5.62	115.24	123.00
4	M	259	LYS	C-N-CA	-5.62	115.24	123.00
3	S	54	PRO	N-CA-CB	5.62	108.53	103.08
4	M	108	LYS	N-CA-C	5.62	119.00	107.37
2	B	520	SER	CA-C-N	-5.61	115.95	122.63
2	B	520	SER	C-N-CA	-5.61	115.95	122.63
2	B	569	THR	CB-CA-C	-5.61	102.15	111.41
1	A	306	GLU	N-CA-C	5.61	122.75	110.80
3	S	121	LEU	CA-C-N	-5.61	113.38	120.56
3	S	121	LEU	C-N-CA	-5.61	113.38	120.56
1	A	291	ILE	O-C-N	5.60	129.18	121.90
4	M	456	SER	N-CA-C	5.59	118.50	109.83
4	M	267	ILE	CA-C-N	-5.59	110.45	121.41
4	M	267	ILE	C-N-CA	-5.59	110.45	121.41
2	B	338	LYS	O-C-N	5.59	128.04	122.12
2	B	464	SER	N-CA-C	-5.59	103.54	110.41
2	B	156	HIS	CA-C-O	-5.59	112.52	120.51
2	B	407	ASN	CA-C-O	-5.58	112.57	118.77
1	A	419	ILE	CA-C-N	5.58	132.45	122.13
1	A	419	ILE	C-N-CA	5.58	132.45	122.13
2	B	197	LYS	O-C-N	5.58	130.01	122.59
1	A	521	GLU	CA-C-N	-5.58	113.75	122.73
1	A	521	GLU	C-N-CA	-5.58	113.75	122.73
4	M	216	VAL	CA-C-N	-5.58	115.31	122.79
4	M	216	VAL	C-N-CA	-5.58	115.31	122.79
2	B	538	SER	CA-C-N	-5.57	113.85	122.49
2	B	538	SER	C-N-CA	-5.57	113.85	122.49
1	A	247	ILE	N-CA-C	5.57	116.60	108.58
2	B	420	ALA	CA-C-N	-5.57	112.14	122.60
2	B	420	ALA	C-N-CA	-5.57	112.14	122.60
1	A	275	LEU	C-N-CD	5.57	147.82	125.00
4	M	438	SER	CA-C-N	-5.57	113.46	122.81
4	M	438	SER	C-N-CA	-5.57	113.46	122.81
1	A	511	VAL	N-CA-C	-5.56	104.10	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	325	LEU	CA-C-N	-5.56	115.02	122.42
4	M	325	LEU	C-N-CA	-5.56	115.02	122.42
4	M	73	ASN	CA-C-N	-5.56	113.13	122.92
4	M	73	ASN	C-N-CA	-5.56	113.13	122.92
2	B	69	ILE	CA-C-O	5.56	127.73	120.78
2	B	330	SER	CB-CA-C	5.56	118.31	109.52
2	B	53	SER	CA-C-N	5.55	128.75	120.31
2	B	53	SER	C-N-CA	5.55	128.75	120.31
4	M	226	PHE	CA-C-N	-5.55	115.18	123.00
4	M	226	PHE	C-N-CA	-5.55	115.18	123.00
4	M	358	ILE	N-CA-C	5.55	114.60	106.55
4	M	442	GLN	N-CA-C	5.55	115.61	108.34
4	M	84	LYS	N-CA-C	5.54	122.61	110.80
1	A	352	PHE	N-CA-C	5.54	119.35	112.59
2	B	522	GLU	CB-CA-C	-5.54	102.91	112.44
2	B	438	ARG	CA-C-O	-5.54	110.05	118.91
1	A	157	SER	O-C-N	5.53	128.46	122.15
1	A	323	CYS	CA-C-O	-5.53	112.13	119.10
4	M	55	MET	N-CA-C	-5.53	103.61	111.24
2	B	264	THR	N-CA-C	-5.52	101.01	109.41
1	A	296	ASN	CA-C-N	5.52	127.62	120.44
1	A	296	ASN	C-N-CA	5.52	127.62	120.44
1	A	302	ASN	N-CA-CB	5.52	119.82	110.49
1	A	478	ARG	CA-C-O	-5.52	115.02	120.70
2	B	506	ASN	CA-C-O	-5.52	113.28	119.79
1	A	587	ASN	CA-C-O	-5.51	115.03	120.82
2	B	322	CYS	N-CA-C	-5.51	105.42	111.82
1	A	127	LEU	CA-C-O	-5.51	113.15	119.60
4	M	310	VAL	CA-C-O	5.51	126.68	120.95
4	M	287	ASN	N-CA-C	5.51	118.24	110.14
2	B	141	ALA	CA-C-N	-5.50	112.35	120.38
2	B	141	ALA	C-N-CA	-5.50	112.35	120.38
2	B	405	GLU	N-CA-C	5.50	118.11	111.40
1	A	405	THR	CB-CA-C	-5.50	99.48	110.42
2	B	579	PRO	O-C-N	-5.49	115.22	122.64
3	S	97	ALA	O-C-N	5.49	128.46	122.20
4	M	12	ASN	CA-C-N	-5.49	114.45	122.19
4	M	12	ASN	C-N-CA	-5.49	114.45	122.19
4	M	326	HIS	CA-C-N	-5.49	113.81	121.99
4	M	326	HIS	C-N-CA	-5.49	113.81	121.99
1	A	89	PHE	N-CA-C	5.49	117.27	111.28
2	B	495	ASP	CA-C-N	-5.49	111.42	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	495	ASP	C-N-CA	-5.49	111.42	121.52
4	M	310	VAL	N-CA-C	-5.48	105.03	110.62
1	A	193	PRO	CA-C-N	-5.48	112.88	120.38
1	A	193	PRO	C-N-CA	-5.48	112.88	120.38
2	B	556	LEU	CA-C-O	-5.48	114.74	120.55
4	M	354	ASP	N-CA-CB	5.48	120.91	111.00
2	B	535	GLN	N-CA-C	-5.48	105.22	112.34
4	M	287	ASN	CA-C-O	-5.47	114.78	121.78
1	A	398	GLU	CA-C-N	-5.47	112.32	122.60
1	A	398	GLU	C-N-CA	-5.47	112.32	122.60
1	A	102	GLN	CA-C-N	5.46	128.15	120.28
1	A	102	GLN	C-N-CA	5.46	128.15	120.28
4	M	332	GLY	CA-C-N	-5.46	111.86	120.60
4	M	332	GLY	C-N-CA	-5.46	111.86	120.60
2	B	274	PRO	CA-N-CD	-5.46	104.36	112.00
2	B	45	GLN	CA-C-O	-5.46	113.69	119.97
2	B	383	VAL	O-C-N	5.46	128.94	122.83
2	B	44	PRO	CA-C-O	-5.46	111.02	119.64
4	M	400	ASP	CA-C-N	5.45	131.13	120.99
4	M	400	ASP	C-N-CA	5.45	131.13	120.99
4	M	20	LEU	CA-C-N	-5.45	115.09	121.85
4	M	20	LEU	C-N-CA	-5.45	115.09	121.85
4	M	215	TYR	CA-C-N	-5.45	115.70	123.11
4	M	215	TYR	C-N-CA	-5.45	115.70	123.11
1	A	230	PRO	CA-N-CD	5.45	119.63	112.00
4	M	91	THR	N-CA-C	-5.45	105.73	112.38
2	B	299	LEU	N-CA-C	-5.45	105.26	111.14
2	B	487	LEU	O-C-N	5.45	128.41	122.20
3	S	58	LEU	CB-CA-C	5.45	119.18	109.38
2	B	162	VAL	N-CA-C	-5.44	104.29	111.09
2	B	278	PRO	CA-C-N	-5.44	113.38	123.55
2	B	278	PRO	C-N-CA	-5.44	113.38	123.55
2	B	522	GLU	CA-C-N	5.44	131.92	121.54
2	B	522	GLU	C-N-CA	5.44	131.92	121.54
1	A	99	LYS	CA-C-O	-5.44	111.56	120.80
2	B	190	GLU	CA-C-O	-5.43	114.79	120.55
4	M	227	GLU	O-C-N	-5.43	116.97	123.27
2	B	307	ASN	O-C-N	5.43	127.67	122.03
4	M	433	VAL	CA-C-N	-5.42	114.98	122.30
4	M	433	VAL	C-N-CA	-5.42	114.98	122.30
4	M	341	SER	CA-C-O	5.42	126.50	120.43
4	M	481	VAL	CA-C-N	-5.41	115.47	123.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	481	VAL	C-N-CA	-5.41	115.47	123.05
2	B	353	GLN	CA-C-O	-5.41	112.77	120.51
1	A	269	LYS	O-C-N	5.41	128.92	122.27
4	M	471	LYS	CA-C-N	-5.40	112.84	122.07
4	M	471	LYS	C-N-CA	-5.40	112.84	122.07
1	A	435	ILE	CA-C-N	-5.40	112.51	120.28
1	A	435	ILE	C-N-CA	-5.40	112.51	120.28
4	M	353	VAL	N-CA-C	-5.40	100.71	108.53
4	M	83	SER	N-CA-C	-5.39	99.31	110.80
1	A	409	VAL	N-CA-C	5.39	116.99	109.55
2	B	282	LYS	CA-C-N	-5.39	112.64	120.29
2	B	282	LYS	C-N-CA	-5.39	112.64	120.29
2	B	505	ASP	N-CA-C	-5.39	105.41	111.28
2	B	259	TYR	N-CA-C	5.38	122.26	110.80
2	B	75	ASP	N-CA-C	5.38	122.25	110.80
2	B	206	LYS	CA-C-N	5.38	128.43	120.74
2	B	206	LYS	C-N-CA	5.38	128.43	120.74
3	S	106	VAL	N-CA-C	-5.37	105.48	110.53
1	A	588	LEU	N-CA-C	5.37	122.24	110.80
2	B	425	PRO	N-CA-C	-5.37	103.02	111.34
4	M	135	ASN	CB-CA-C	5.37	118.88	110.19
2	B	519	ALA	N-CA-CB	-5.36	101.97	110.22
4	M	79	SER	N-CA-C	-5.36	100.59	108.79
1	A	521	GLU	N-CA-C	5.35	117.12	111.28
3	S	138	GLY	N-CA-C	-5.35	107.86	115.30
2	B	43	ASN	N-CA-C	5.35	116.89	108.55
2	B	495	ASP	CA-C-O	-5.35	112.68	119.31
2	B	582	ASP	CA-C-O	-5.35	115.12	121.16
1	A	360	LEU	CA-C-N	-5.35	111.16	121.58
1	A	360	LEU	C-N-CA	-5.35	111.16	121.58
3	S	100	ASP	CA-C-O	-5.33	112.82	119.38
3	S	24	ASP	CA-C-N	5.33	126.75	120.09
3	S	24	ASP	C-N-CA	5.33	126.75	120.09
1	A	399	ASP	CA-C-O	-5.33	112.67	120.13
4	M	265	ASN	CA-C-N	-5.33	111.36	121.54
4	M	265	ASN	C-N-CA	-5.33	111.36	121.54
4	M	352	GLN	N-CA-C	-5.33	99.45	110.80
1	A	433	ILE	N-CA-C	-5.32	105.53	110.53
2	B	41	ASN	N-CA-C	5.32	118.97	111.52
1	A	505	ASN	CA-C-O	5.32	126.06	119.79
2	B	257	LYS	N-CA-C	-5.32	106.63	113.01
3	S	119	LEU	O-C-N	5.32	129.46	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	539	ASN	CA-C-N	5.32	132.75	122.07
2	B	539	ASN	C-N-CA	5.32	132.75	122.07
3	S	86	THR	CA-C-N	-5.32	114.97	122.94
3	S	86	THR	C-N-CA	-5.32	114.97	122.94
1	A	488	ARG	CA-C-O	-5.31	114.34	120.24
2	B	32	GLU	N-CA-C	5.31	117.87	111.40
1	A	527	GLU	O-C-N	-5.30	115.54	122.59
2	B	566	ALA	N-CA-CB	-5.29	102.72	110.40
4	M	50	TYR	O-C-N	-5.29	116.17	122.20
4	M	373	ALA	N-CA-C	-5.29	100.69	109.46
4	M	457	GLY	CA-C-O	5.29	125.64	119.19
4	M	320	ILE	N-CA-C	-5.28	98.35	109.34
4	M	274	ASP	O-C-N	-5.28	115.35	122.43
1	A	242	GLU	N-CA-CB	5.28	117.73	109.97
2	B	443	SER	CA-C-N	5.28	129.61	120.58
2	B	443	SER	C-N-CA	5.28	129.61	120.58
2	B	216	LYS	N-CA-C	-5.27	106.11	112.54
1	A	198	ASP	CA-C-N	-5.27	112.84	122.38
1	A	198	ASP	C-N-CA	-5.27	112.84	122.38
1	A	567	GLN	N-CA-C	-5.27	106.09	113.37
1	A	206	LYS	CA-C-N	5.27	131.60	121.54
1	A	206	LYS	C-N-CA	5.27	131.60	121.54
1	A	403	LEU	N-CA-C	-5.27	105.00	111.75
1	A	487	MET	CA-C-O	5.27	127.47	118.94
2	B	75	ASP	CA-C-N	5.27	132.47	121.94
2	B	75	ASP	C-N-CA	5.27	132.47	121.94
4	M	220	GLU	CA-C-N	-5.27	115.63	123.11
4	M	220	GLU	C-N-CA	-5.27	115.63	123.11
4	M	328	GLN	CA-C-O	5.26	126.32	120.43
2	B	522	GLU	O-C-N	5.26	132.65	121.35
2	B	561	ASP	CA-C-O	-5.26	112.99	120.51
2	B	583	PHE	CA-C-N	5.26	130.34	121.14
2	B	583	PHE	C-N-CA	5.26	130.34	121.14
3	S	143	GLU	CA-C-O	5.26	127.31	120.11
4	M	90	PHE	N-CA-C	-5.26	105.63	111.36
1	A	224	GLU	N-CA-C	-5.25	105.45	111.07
3	S	143	GLU	O-C-N	5.25	130.54	123.34
2	B	529	VAL	O-C-N	5.25	131.89	121.91
4	M	19	LEU	CA-C-N	-5.25	113.51	122.33
4	M	19	LEU	C-N-CA	-5.25	113.51	122.33
4	M	79	SER	O-C-N	-5.25	117.80	123.42
2	B	147	MET	CA-C-O	5.25	127.15	121.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	262	ASN	CA-C-N	-5.25	112.72	120.28
1	A	262	ASN	C-N-CA	-5.25	112.72	120.28
2	B	339	PHE	CA-C-O	-5.24	114.99	120.55
1	A	63	ASP	N-CA-C	5.24	125.67	111.00
1	A	366	SER	CA-C-N	5.24	128.93	120.55
1	A	366	SER	C-N-CA	5.24	128.93	120.55
1	A	270	LEU	N-CA-C	-5.24	105.25	111.69
2	B	597	TYR	CA-C-O	-5.24	114.33	120.20
4	M	392	MET	N-CA-C	-5.24	106.84	113.18
1	A	277	LYS	O-C-N	-5.23	116.24	122.46
3	S	147	ASN	O-C-N	5.23	129.34	122.33
4	M	128	CYS	CA-C-O	5.22	125.67	119.56
4	M	326	HIS	O-C-N	-5.22	116.67	122.93
1	A	211	ASP	CA-C-O	-5.21	114.45	120.49
2	B	473	ASN	O-C-N	5.21	128.31	122.22
4	M	367	ALA	N-CA-CB	-5.21	101.93	110.52
2	B	33	SER	CA-C-O	-5.20	111.22	119.23
3	S	23	VAL	CA-C-N	-5.20	114.06	121.50
3	S	23	VAL	C-N-CA	-5.20	114.06	121.50
2	B	153	ILE	CA-C-O	-5.19	114.29	120.78
4	M	107	ASP	CA-C-N	-5.19	114.31	122.76
4	M	107	ASP	C-N-CA	-5.19	114.31	122.76
1	A	445	ASN	CA-C-O	5.18	126.33	120.00
4	M	5	PHE	CA-C-N	-5.18	114.46	122.59
4	M	5	PHE	C-N-CA	-5.18	114.46	122.59
1	A	217	ALA	CA-C-N	5.18	127.74	120.28
1	A	217	ALA	C-N-CA	5.18	127.74	120.28
2	B	570	GLY	CA-C-N	-5.18	111.33	121.06
2	B	570	GLY	C-N-CA	-5.18	111.33	121.06
4	M	213	GLU	CA-C-N	-5.16	115.72	123.00
4	M	213	GLU	C-N-CA	-5.16	115.72	123.00
1	A	114	PHE	CA-C-N	-5.16	113.62	121.31
1	A	114	PHE	C-N-CA	-5.16	113.62	121.31
2	B	37	TYR	CA-C-N	-5.16	112.85	120.38
2	B	37	TYR	C-N-CA	-5.16	112.85	120.38
4	M	112	LYS	O-C-N	5.15	129.23	122.33
2	B	79	VAL	N-CA-C	5.15	119.55	113.22
3	S	55	PRO	CB-CA-C	-5.15	104.54	111.85
1	A	99	LYS	O-C-N	5.15	131.24	123.00
1	A	205	SER	CA-C-O	-5.15	114.05	119.97
4	M	280	ASP	N-CA-CB	-5.15	101.79	110.49
4	M	120	ARG	CA-C-O	-5.14	112.62	119.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	446	GLY	CA-C-N	5.14	131.23	121.97
4	M	446	GLY	C-N-CA	5.14	131.23	121.97
4	M	243	ILE	N-CA-C	5.14	114.98	107.37
1	A	83	ASP	O-C-N	5.13	129.16	122.89
3	S	140	MET	CA-C-O	5.13	126.24	120.70
3	S	137	GLN	CA-C-N	5.13	131.63	121.53
3	S	137	GLN	C-N-CA	5.13	131.63	121.53
1	A	635	ALA	CB-CA-C	-5.12	102.84	110.88
1	A	601	VAL	N-CA-C	-5.12	105.40	110.62
2	B	131	ASN	CA-C-N	5.12	128.78	120.60
2	B	131	ASN	C-N-CA	5.12	128.78	120.60
4	M	444	ALA	N-CA-CB	-5.12	102.60	110.12
4	M	134	PRO	N-CA-CB	5.11	108.09	103.33
2	B	517	GLU	N-CA-C	5.11	116.70	111.03
4	M	285	PRO	N-CA-C	5.11	120.57	113.98
1	A	343	LYS	N-CA-C	-5.11	105.15	111.33
1	A	558	VAL	CA-C-N	5.11	127.12	120.28
1	A	558	VAL	C-N-CA	5.11	127.12	120.28
2	B	151	ALA	CA-C-N	5.10	124.82	119.82
2	B	151	ALA	C-N-CA	5.10	124.82	119.82
2	B	582	ASP	CA-C-N	5.10	130.50	122.34
2	B	582	ASP	C-N-CA	5.10	130.50	122.34
1	A	195	ALA	O-C-N	5.10	127.52	122.12
3	S	59	LEU	O-C-N	5.10	129.20	122.93
3	S	79	ASN	CA-C-O	-5.09	114.79	120.54
2	B	185	LYS	N-CA-C	5.09	118.26	111.75
2	B	336	ASN	CA-C-O	5.09	127.78	120.51
3	S	147	ASN	CA-C-O	-5.08	113.79	119.79
4	M	39	PRO	O-C-N	5.08	131.13	123.00
1	A	203	PHE	N-CA-C	-5.08	105.64	111.07
2	B	562	ASN	CA-C-N	5.08	130.17	122.56
2	B	562	ASN	C-N-CA	5.08	130.17	122.56
3	S	111	ARG	CA-C-N	-5.07	112.19	121.52
3	S	111	ARG	C-N-CA	-5.07	112.19	121.52
1	A	270	LEU	CA-C-N	-5.07	113.44	120.38
1	A	270	LEU	C-N-CA	-5.07	113.44	120.38
2	B	279	LEU	N-CA-C	5.07	116.39	110.31
3	S	90	ASP	O-C-N	5.07	128.61	122.94
1	A	85	ALA	N-CA-CB	-5.06	102.65	110.20
3	S	105	PHE	N-CA-C	-5.06	105.22	111.40
4	M	292	PRO	O-C-N	5.06	127.43	121.46
4	M	395	GLY	CA-C-O	-5.06	116.96	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	223	HIS	CA-C-O	5.06	126.50	120.28
2	B	34	SER	CA-C-O	-5.05	113.28	120.51
3	S	90	ASP	CA-C-O	-5.05	115.76	121.72
1	A	154	ILE	N-CA-CB	-5.05	104.73	112.15
2	B	280	PRO	CA-C-O	-5.05	115.62	122.08
2	B	168	MET	CA-C-O	-5.04	115.20	120.55
2	B	227	HIS	O-C-N	5.04	129.29	122.59
4	M	355	ASP	N-CA-C	5.03	121.52	110.80
4	M	133	GLU	N-CA-C	5.03	117.58	110.24
4	M	420	THR	N-CA-C	-5.03	105.88	111.36
3	S	46	PHE	N-CA-CB	5.02	118.52	110.73
1	A	481	MET	CA-C-N	-5.02	114.13	120.56
1	A	481	MET	C-N-CA	-5.02	114.13	120.56
4	M	324	SER	O-C-N	-5.02	116.30	122.82
1	A	484	VAL	CA-C-O	5.01	126.67	119.95
1	A	399	ASP	N-CA-C	5.01	119.35	112.68
4	M	294	ASP	N-CA-CB	5.01	118.04	110.42
2	B	26	ALA	N-CA-C	-5.01	100.14	110.80
2	B	542	PRO	CA-C-O	-5.01	111.38	119.84
1	A	206	LYS	N-CA-C	5.00	116.81	111.36
1	A	350	SER	N-CA-C	-5.00	105.83	111.28
3	S	100	ASP	N-CA-C	5.00	118.64	112.54

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	S	69	ASN	CA
4	M	22	ALA	CA

All (127) 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

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Mol	Chain	Res	Type	Group
1	A	275	LEU	Mainchain
1	A	277	LYS	Mainchain
1	A	278	ILE	Mainchain
1	A	282	MET	Mainchain
1	A	288	THR	Mainchain
1	A	289	SER	Mainchain
1	A	290	VAL	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	381	GLU	Mainchain
1	A	399	ASP	Peptide
1	A	400	VAL	Peptide
1	A	436	CYS	Mainchain
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

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Mol	Chain	Res	Type	Group
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	181	TYR	Mainchain
2	B	186	ASN	Mainchain
2	B	237	ILE	Mainchain
2	B	267	ASP	Mainchain
2	B	278	PRO	Peptide
2	B	293	VAL	Mainchain
2	B	310	ILE	Mainchain
2	B	326	TYR	Mainchain
2	B	375	LEU	Mainchain
2	B	377	TYR	Mainchain
2	B	384	PHE	Mainchain
2	B	404	ASN	Mainchain
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	581	TYR	Mainchain
2	B	584	SER	Mainchain
2	B	78	ASP	Mainchain
2	B	82	TYR	Mainchain
2	B	88	LYS	Mainchain
4	M	102	GLU	Mainchain
4	M	103	TYR	Mainchain
4	M	104	PHE	Mainchain
4	M	105	ASP	Peptide
4	M	131	ALA	Mainchain
4	M	132	GLY	Mainchain
4	M	134	PRO	Mainchain
4	M	265	ASN	Mainchain
4	M	284	SER	Mainchain

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Mol	Chain	Res	Type	Group
4	M	292	PRO	Peptide
4	M	40	GLN	Mainchain
4	M	405	THR	Mainchain
4	M	421	GLY	Mainchain
4	M	426	LYS	Peptide
4	M	445	SER	Peptide
4	M	45	SER	Peptide
4	M	456	SER	Mainchain
4	M	462	LYS	Peptide
4	M	477	GLY	Peptide
4	M	51	LEU	Peptide
4	M	57	GLY	Mainchain
4	M	79	SER	Mainchain
4	M	8	THR	Mainchain
4	M	85	GLY	Mainchain
3	S	101	LEU	Mainchain
3	S	102	ILE	Mainchain
3	S	135	ILE	Mainchain
3	S	161	GLU	Mainchain
3	S	163	THR	Peptide
3	S	167	ILE	Peptide
3	S	22	PRO	Mainchain
3	S	43	ASN	Mainchain
3	S	46	PHE	Mainchain
3	S	50	PHE	Mainchain
3	S	53	THR	Mainchain
3	S	56	SER	Mainchain
3	S	57	LEU	Mainchain
3	S	58	LEU	Peptide
3	S	64	ASN	Mainchain
3	S	66	ASP	Mainchain
3	S	69	ASN	Mainchain
3	S	99	LEU	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	4708	1314	0
2	B	4963	0	4993	2822	0
3	S	1358	0	1343	478	0
4	M	3158	0	3114	1753	0
All	All	14104	0	14158	5701	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 202.

All (5701) 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)
2:B:17:VAL:HG21	2:B:35:TYR:CD2	1.29	1.68
2:B:243:TRP:CH2	4:M:98:ARG:HD3	1.17	1.63
2:B:106:LEU:CD1	2:B:144:ASP:HB3	1.23	1.62
1:A:606:PHE:CZ	1:A:633:PHE:HB2	1.23	1.62
2:B:578:PRO:HD2	2:B:581:TYR:CE2	1.21	1.61
2:B:106:LEU:CD2	4:M:130:GLU:HB3	1.26	1.61
2:B:2:VAL:HG11	4:M:54:SER:CB	1.24	1.60
2:B:106:LEU:HD13	2:B:144:ASP:CB	1.32	1.60
2:B:479:VAL:CG1	2:B:486:HIS:CE1	1.80	1.60
4:M:131:ALA:CA	4:M:131:ALA:CB	1.80	1.59
4:M:344:ILE:CG2	4:M:347:PHE:HB3	1.24	1.58
2:B:523:PHE:HZ	2:B:580:TYR:CE2	1.17	1.58
2:B:73:ASP:HA	4:M:19:LEU:CD2	1.29	1.58
2:B:403:ILE:HD13	2:B:439:CYS:CA	1.34	1.57
2:B:216:LYS:CB	2:B:251:LEU:HD13	1.12	1.57
4:M:281:GLY:CA	4:M:281:GLY:C	1.78	1.56
2:B:226:LEU:HD23	2:B:255:TYR:CD1	1.38	1.55
2:B:17:VAL:CG2	2:B:35:TYR:HD2	1.20	1.54
4:M:282:VAL:N	4:M:282:VAL:CA	1.69	1.54
1:A:594:PHE:HE2	2:B:477:MET:SD	1.28	1.53
3:S:64:ASN:CA	3:S:64:ASN:C	1.80	1.53
4:M:244:VAL:HA	4:M:472:TYR:CD2	1.37	1.52
2:B:106:LEU:HD23	4:M:130:GLU:CB	1.05	1.51
2:B:107:ARG:CZ	4:M:20:LEU:HD23	1.37	1.51
2:B:73:ASP:CA	4:M:19:LEU:HD22	1.11	1.51
2:B:1:MET:SD	4:M:39:PRO:HD2	1.48	1.50
1:A:406:GLY:C	3:S:64:ASN:HD21	1.14	1.50
3:S:163:THR:CA	3:S:163:THR:C	1.83	1.50
2:B:72:SER:CA	4:M:17:GLN:HE22	1.25	1.49
1:A:328:PRO:C	3:S:50:PHE:HZ	1.20	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:512:VAL:HG13	2:B:533:LEU:CD1	1.40	1.47
2:B:72:SER:HA	4:M:17:GLN:NE2	1.28	1.47
1:A:329:ASN:CA	3:S:50:PHE:CZ	1.82	1.47
2:B:219:TYR:CE2	2:B:226:LEU:HD13	1.45	1.47
2:B:486:HIS:CE1	2:B:518:ILE:HD13	1.45	1.46
1:A:405:THR:HA	2:B:7:ARG:NH2	1.24	1.46
4:M:432:THR:OG1	4:M:480:GLN:CG	1.63	1.45
2:B:230:PHE:CZ	2:B:252:LEU:HD22	1.49	1.45
2:B:211:ALA:CB	2:B:233:TYR:OH	1.64	1.45
2:B:73:ASP:CA	4:M:19:LEU:CD2	1.87	1.45
1:A:595:GLU:CD	2:B:513:TRP:CZ3	1.95	1.44
2:B:178:ILE:HG13	2:B:214:ALA:C	1.41	1.44
4:M:245:ASP:O	4:M:472:TYR:CE1	1.68	1.44
2:B:12:LEU:HD13	4:M:13:LYS:CG	1.47	1.44
2:B:14:THR:HG22	2:B:36:THR:CG2	1.47	1.44
2:B:25:VAL:HG22	2:B:30:LEU:C	1.13	1.44
2:B:106:LEU:HD23	4:M:130:GLU:CA	1.46	1.43
2:B:224:GLU:CB	2:B:259:TYR:OH	1.64	1.43
2:B:374:PHE:CE2	2:B:402:LEU:CD1	1.77	1.43
1:A:251:TRP:CE3	3:S:97:ALA:CA	1.92	1.43
1:A:506:LYS:NZ	4:M:82:LYS:HD2	1.28	1.43
2:B:215:TYR:CD2	2:B:233:TYR:HE2	1.37	1.43
2:B:423:HIS:NE2	4:M:365:GLU:HB3	1.28	1.43
2:B:523:PHE:CZ	2:B:580:TYR:CE2	2.06	1.43
2:B:256:CYS:SG	2:B:328:LEU:HD22	1.57	1.43
2:B:223:LEU:HD11	2:B:258:GLN:CB	1.46	1.42
2:B:107:ARG:HH22	4:M:20:LEU:CD2	1.31	1.42
2:B:293:VAL:O	2:B:299:LEU:CG	1.65	1.42
2:B:337:THR:CA	2:B:373:LEU:HD11	0.97	1.42
4:M:347:PHE:CE1	4:M:350:VAL:CG1	2.02	1.42
2:B:12:LEU:HD13	4:M:13:LYS:CB	1.48	1.41
2:B:337:THR:HA	2:B:373:LEU:CD1	0.93	1.41
2:B:564:LYS:CD	2:B:621:GLY:O	1.67	1.41
1:A:407:SER:C	3:S:64:ASN:HD22	1.24	1.41
2:B:437:SER:CB	2:B:474:VAL:HG13	1.49	1.41
2:B:20:ARG:NH1	4:M:118:TYR:HB3	1.09	1.41
2:B:158:VAL:HG11	2:B:177:ILE:CG1	1.45	1.41
2:B:223:LEU:HD13	2:B:259:TYR:N	1.15	1.41
2:B:106:LEU:CG	4:M:130:GLU:HB3	1.49	1.40
2:B:178:ILE:CG2	2:B:217:GLU:HB2	1.48	1.40
1:A:595:GLU:OE1	2:B:513:TRP:CZ3	1.73	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:243:TRP:CH2	4:M:98:ARG:CD	2.02	1.40
2:B:20:ARG:HH12	4:M:118:TYR:CB	1.31	1.40
2:B:11:ALA:HA	2:B:40:GLN:NE2	1.18	1.40
2:B:403:ILE:CD1	2:B:439:CYS:CA	2.00	1.40
2:B:374:PHE:HZ	2:B:381:PHE:CD2	1.40	1.40
2:B:578:PRO:CD	2:B:581:TYR:CE2	2.02	1.40
2:B:28:SER:OG	2:B:30:LEU:C	1.64	1.39
2:B:259:TYR:O	2:B:261:PRO:CD	1.66	1.39
2:B:107:ARG:NH1	4:M:20:LEU:HD23	1.32	1.39
2:B:479:VAL:HG11	2:B:486:HIS:NE2	1.34	1.39
2:B:278:PRO:HD2	2:B:292:GLU:CB	1.54	1.38
1:A:329:ASN:N	3:S:50:PHE:CZ	1.87	1.38
2:B:28:SER:CB	2:B:30:LEU:O	1.69	1.38
2:B:107:ARG:NH2	4:M:20:LEU:HD23	1.36	1.37
2:B:252:LEU:HD13	2:B:302:PHE:CD1	1.59	1.37
2:B:290:SER:O	2:B:292:GLU:N	1.56	1.37
2:B:293:VAL:O	2:B:299:LEU:CD1	1.69	1.37
2:B:403:ILE:CD1	2:B:439:CYS:O	1.69	1.37
2:B:337:THR:CB	2:B:373:LEU:HD11	1.55	1.37
2:B:396:ILE:CG2	2:B:432:ALA:HA	1.54	1.37
2:B:12:LEU:CD1	4:M:13:LYS:HA	1.54	1.37
2:B:193:LEU:CD2	2:B:225:LEU:CB	2.00	1.37
4:M:219:LEU:CB	4:M:472:TYR:O	1.71	1.36
2:B:12:LEU:CD1	4:M:13:LYS:HG3	1.53	1.36
2:B:38:TYR:CE2	2:B:43:ASN:O	1.78	1.36
4:M:222:PHE:O	4:M:479:PHE:CE1	1.79	1.35
2:B:403:ILE:HD13	2:B:439:CYS:CB	1.56	1.35
4:M:245:ASP:N	4:M:472:TYR:CD1	1.93	1.35
2:B:252:LEU:HB2	2:B:302:PHE:CZ	1.60	1.35
1:A:179:LYS:CE	3:S:137:GLN:O	1.74	1.34
2:B:479:VAL:HG13	2:B:486:HIS:ND1	1.41	1.34
1:A:595:GLU:OE2	2:B:513:TRP:CE3	1.78	1.34
1:A:503:ASN:HA	4:M:59:ASP:O	1.24	1.34
1:A:504:ILE:HA	4:M:59:ASP:OD2	1.23	1.34
1:A:594:PHE:CE2	2:B:477:MET:SD	2.18	1.34
2:B:512:VAL:CG1	2:B:533:LEU:HD13	1.55	1.34
3:S:29:LYS:NZ	3:S:33:GLU:OE2	1.59	1.34
1:A:595:GLU:OE2	2:B:513:TRP:CZ3	1.77	1.33
1:A:606:PHE:HZ	1:A:633:PHE:CB	1.38	1.33
2:B:216:LYS:CB	2:B:251:LEU:CD1	2.03	1.33
2:B:213:LEU:CD1	4:M:135:ASN:OD1	1.74	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:501:THR:O	2:B:508:ARG:NH2	1.59	1.33
1:A:638:LEU:HD21	2:B:561:ASP:N	1.43	1.33
2:B:374:PHE:CE2	2:B:402:LEU:HD11	1.15	1.33
2:B:403:ILE:HD11	2:B:439:CYS:O	1.16	1.33
2:B:162:VAL:HG21	2:B:195:ILE:CG2	1.56	1.32
2:B:437:SER:HB2	2:B:474:VAL:CG1	1.59	1.32
1:A:504:ILE:HD13	4:M:59:ASP:OD2	1.20	1.32
1:A:606:PHE:CZ	1:A:633:PHE:CB	2.12	1.32
2:B:73:ASP:N	4:M:19:LEU:CD2	1.89	1.32
2:B:226:LEU:CD2	2:B:255:TYR:CD1	2.10	1.32
2:B:295:ASN:O	2:B:300:ASP:CB	1.75	1.32
2:B:230:PHE:CE2	2:B:252:LEU:HD23	1.63	1.32
2:B:259:TYR:O	2:B:261:PRO:N	1.60	1.32
2:B:274:PRO:HG2	2:B:295:ASN:CG	1.52	1.32
2:B:276:SER:O	2:B:295:ASN:HB2	1.19	1.32
2:B:9:ALA:CB	4:M:14:LEU:HB2	1.57	1.32
2:B:193:LEU:HD22	2:B:225:LEU:CB	1.26	1.32
4:M:435:LEU:O	4:M:479:PHE:CD1	1.82	1.32
2:B:106:LEU:CD1	2:B:144:ASP:CB	1.93	1.31
2:B:224:GLU:HA	2:B:259:TYR:CZ	1.10	1.31
2:B:375:LEU:CD1	2:B:404:ASN:HD22	1.40	1.31
2:B:433:VAL:HG11	2:B:471:TYR:CA	1.58	1.31
4:M:41:LEU:CD1	4:M:52:ASP:H	1.39	1.31
2:B:9:ALA:O	4:M:14:LEU:HB3	1.27	1.31
2:B:375:LEU:CD1	2:B:404:ASN:ND2	1.93	1.31
2:B:17:VAL:CG2	2:B:35:TYR:CD2	1.97	1.31
2:B:479:VAL:HG13	2:B:486:HIS:CE1	1.43	1.31
4:M:223:HIS:HA	4:M:479:PHE:CD1	1.62	1.31
1:A:251:TRP:CE3	3:S:97:ALA:HA	1.02	1.31
2:B:38:TYR:OH	2:B:46:GLN:CG	1.78	1.31
2:B:400:SER:HB3	2:B:435:SER:CB	1.60	1.31
4:M:243:ILE:O	4:M:472:TYR:CB	1.77	1.31
2:B:278:PRO:CD	2:B:292:GLU:HB2	1.60	1.31
2:B:396:ILE:HG21	2:B:432:ALA:CA	1.61	1.31
2:B:243:TRP:CZ3	4:M:98:ARG:CD	2.13	1.30
2:B:403:ILE:CD1	2:B:439:CYS:C	2.02	1.30
1:A:407:SER:O	3:S:64:ASN:ND2	1.63	1.30
2:B:5:ILE:CG2	4:M:42:LEU:HD11	1.61	1.30
2:B:12:LEU:CG	4:M:13:LYS:HG3	1.59	1.30
2:B:274:PRO:HG2	2:B:295:ASN:CB	1.61	1.30
1:A:506:LYS:NZ	4:M:82:LYS:CD	1.94	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:397:GLN:NE2	2:B:431:MET:HE3	1.43	1.30
4:M:344:ILE:CG2	4:M:347:PHE:CB	2.09	1.30
1:A:503:ASN:OD1	4:M:60:LEU:CA	1.79	1.30
2:B:234:CYS:O	2:B:237:ILE:HG22	1.18	1.30
2:B:274:PRO:CB	2:B:295:ASN:OD1	1.80	1.30
1:A:503:ASN:OD1	4:M:60:LEU:HD23	1.31	1.30
2:B:200:MET:SD	2:B:229:HIS:O	0.91	1.30
2:B:337:THR:HA	2:B:373:LEU:CG	1.60	1.30
2:B:75:ASP:OD1	4:M:24:ALA:HB3	1.16	1.29
4:M:355:ASP:OD2	4:M:357:LYS:NZ	1.61	1.29
2:B:144:ASP:CG	4:M:131:ALA:HA	1.57	1.29
1:A:402:ILE:CD1	3:S:62:GLU:O	1.79	1.29
2:B:73:ASP:HB3	4:M:25:PRO:O	1.32	1.29
2:B:230:PHE:CE2	2:B:252:LEU:CD2	2.16	1.29
1:A:506:LYS:HE2	4:M:82:LYS:CB	1.62	1.28
4:M:219:LEU:CD1	4:M:472:TYR:O	1.81	1.28
1:A:556:VAL:HG21	1:A:603:VAL:CG2	1.63	1.28
2:B:181:TYR:CE1	2:B:222:HIS:CD2	2.20	1.28
2:B:216:LYS:HE3	4:M:133:GLU:OE2	1.32	1.28
2:B:256:CYS:SG	2:B:328:LEU:CD2	2.21	1.28
2:B:274:PRO:CG	2:B:295:ASN:OD1	1.80	1.28
2:B:433:VAL:CG1	2:B:471:TYR:HA	1.63	1.28
4:M:218:LEU:HA	4:M:472:TYR:CE2	1.67	1.28
2:B:230:PHE:CE1	2:B:234:CYS:SG	2.26	1.28
2:B:296:ASP:OD1	2:B:297:PRO:HD2	1.22	1.28
1:A:462:GLN:O	4:M:58:ARG:HA	1.24	1.28
2:B:25:VAL:CG2	2:B:32:GLU:H	1.47	1.28
2:B:73:ASP:OD1	4:M:19:LEU:HD13	1.26	1.28
2:B:200:MET:SD	2:B:229:HIS:C	2.14	1.28
2:B:219:TYR:CE2	2:B:226:LEU:CD1	2.14	1.27
1:A:402:ILE:CG2	3:S:62:GLU:O	1.81	1.27
1:A:402:ILE:HG21	3:S:62:GLU:O	1.16	1.27
2:B:13:ASP:OD1	4:M:14:LEU:C	1.75	1.27
2:B:155:LEU:HD23	2:B:192:LEU:CD1	1.62	1.27
2:B:17:VAL:HG21	2:B:35:TYR:CE2	1.69	1.27
2:B:28:SER:O	2:B:58:GLU:HG2	1.12	1.27
2:B:38:TYR:CE2	2:B:43:ASN:N	2.01	1.27
1:A:186:PHE:CE2	1:A:224:GLU:CB	2.17	1.27
2:B:347:VAL:HG22	2:B:359:LEU:CB	1.64	1.27
1:A:405:THR:CA	2:B:7:ARG:HH21	1.46	1.26
2:B:374:PHE:CZ	2:B:381:PHE:CD2	2.21	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:218:LEU:O	4:M:441:GLY:N	1.64	1.26
2:B:278:PRO:HD2	2:B:292:GLU:CG	1.66	1.26
4:M:96:ILE:HG21	4:M:125:PHE:CZ	1.68	1.26
4:M:223:HIS:HA	4:M:479:PHE:CE1	1.70	1.26
2:B:231:ARG:NH2	2:B:279:LEU:HD21	1.47	1.26
1:A:333:ILE:CD1	3:S:95:GLU:OE1	1.83	1.26
2:B:567:GLN:O	2:B:569:THR:N	1.68	1.26
2:B:73:ASP:OD1	4:M:24:ALA:HB1	1.12	1.26
2:B:200:MET:CE	2:B:229:HIS:O	1.81	1.26
2:B:237:ILE:O	2:B:238:LYS:C	1.69	1.26
2:B:336:ASN:C	2:B:373:LEU:HD21	1.60	1.26
2:B:479:VAL:CG1	2:B:486:HIS:NE2	1.92	1.26
2:B:309:LEU:HB3	2:B:317:VAL:CG1	1.66	1.25
2:B:25:VAL:CG2	2:B:30:LEU:C	1.94	1.25
2:B:418:TYR:OH	2:B:432:ALA:HB2	1.34	1.25
2:B:74:ASP:O	2:B:77:ILE:HG12	1.15	1.25
2:B:22:ALA:HB2	2:B:33:SER:OG	1.37	1.25
2:B:178:ILE:HG13	2:B:214:ALA:CA	1.66	1.25
2:B:73:ASP:OD1	4:M:19:LEU:CD1	1.83	1.25
2:B:219:TYR:CZ	2:B:226:LEU:HB2	1.71	1.25
2:B:25:VAL:HG23	2:B:32:GLU:N	1.53	1.24
2:B:28:SER:C	2:B:58:GLU:HG2	1.62	1.24
2:B:219:TYR:CD2	2:B:226:LEU:HD22	1.71	1.24
2:B:243:TRP:CZ3	4:M:98:ARG:HD3	1.72	1.24
2:B:556:LEU:CA	2:B:588:ILE:HD11	1.65	1.24
4:M:65:TYR:CZ	4:M:86:PRO:HB3	1.69	1.24
1:A:406:GLY:C	3:S:64:ASN:ND2	1.93	1.24
2:B:230:PHE:CZ	2:B:252:LEU:CD2	2.17	1.24
2:B:337:THR:CB	2:B:373:LEU:CD1	2.13	1.24
2:B:216:LYS:HA	2:B:251:LEU:CD1	1.67	1.24
3:S:32:LEU:O	3:S:35:VAL:HG22	1.33	1.24
1:A:328:PRO:C	3:S:50:PHE:CZ	2.09	1.24
2:B:197:LYS:HB2	2:B:229:HIS:NE2	1.51	1.24
2:B:216:LYS:CA	2:B:251:LEU:CD1	2.15	1.23
2:B:347:VAL:CG2	2:B:359:LEU:HB3	1.66	1.23
1:A:329:ASN:HA	3:S:50:PHE:CZ	1.39	1.23
2:B:341:GLU:HG3	2:B:377:TYR:CE1	1.50	1.23
2:B:107:ARG:HH12	4:M:20:LEU:CD2	1.49	1.23
2:B:215:TYR:CD2	2:B:233:TYR:CE2	2.27	1.23
4:M:218:LEU:HA	4:M:472:TYR:CD2	1.71	1.23
4:M:222:PHE:CD1	4:M:240:ILE:HG23	1.72	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:407:SER:C	3:S:64:ASN:ND2	1.95	1.23
1:A:422:GLU:OE1	3:S:62:GLU:HG2	1.37	1.23
1:A:450:TYR:OH	1:A:476:GLN:CG	1.87	1.23
2:B:216:LYS:HB2	2:B:251:LEU:CD1	1.66	1.23
2:B:219:TYR:CE2	2:B:226:LEU:HB2	1.71	1.23
1:A:258:LYS:NZ	3:S:93:GLU:CA	2.02	1.22
2:B:2:VAL:CG1	4:M:54:SER:CB	2.17	1.22
2:B:73:ASP:OD1	4:M:24:ALA:CB	1.85	1.22
2:B:375:LEU:HD13	2:B:404:ASN:CB	1.67	1.22
3:S:135:ILE:O	3:S:141:VAL:HA	1.33	1.22
1:A:503:ASN:HB3	4:M:59:ASP:C	1.63	1.22
1:A:506:LYS:HZ1	4:M:82:LYS:CD	1.50	1.22
2:B:293:VAL:O	2:B:299:LEU:HG	1.21	1.22
2:B:104:TYR:O	2:B:107:ARG:HB2	1.40	1.22
2:B:259:TYR:CD1	2:B:261:PRO:HG3	1.75	1.22
4:M:363:ASN:ND2	4:M:431:GLN:OE1	1.72	1.22
2:B:103:LEU:CD1	4:M:123:LEU:HD11	1.68	1.21
2:B:277:CYS:O	2:B:288:TYR:HB3	1.38	1.21
2:B:563:PHE:O	2:B:566:ALA:HB3	1.32	1.21
4:M:245:ASP:N	4:M:472:TYR:CE1	2.08	1.21
2:B:567:GLN:O	2:B:569:THR:OG1	1.53	1.21
2:B:584:SER:O	2:B:588:ILE:HG22	1.35	1.21
4:M:44:ASP:CB	4:M:50:TYR:CD2	2.23	1.21
2:B:107:ARG:NH2	4:M:20:LEU:CD2	1.96	1.21
2:B:143:SER:OG	2:B:179:LYS:HD2	1.36	1.21
2:B:178:ILE:CG1	2:B:214:ALA:HB1	1.69	1.21
2:B:196:LEU:O	2:B:215:TYR:OH	1.58	1.21
2:B:567:GLN:O	2:B:569:THR:CB	1.89	1.21
2:B:14:THR:CG2	2:B:36:THR:CG2	2.19	1.21
2:B:318:ILE:HD13	2:B:346:THR:OG1	1.08	1.21
2:B:1:MET:SD	4:M:39:PRO:CD	2.28	1.20
1:A:329:ASN:N	3:S:50:PHE:CE2	2.09	1.20
4:M:350:VAL:HG13	4:M:442:GLN:CB	1.71	1.20
2:B:5:ILE:HG21	4:M:42:LEU:CD1	1.70	1.20
2:B:106:LEU:HD22	2:B:144:ASP:OD2	1.42	1.20
2:B:479:VAL:CG2	2:B:486:HIS:CD2	2.25	1.20
2:B:72:SER:CB	4:M:17:GLN:OE1	1.89	1.20
2:B:106:LEU:CD2	4:M:130:GLU:CB	1.91	1.20
2:B:139:LEU:CD2	2:B:173:VAL:HA	1.72	1.20
2:B:279:LEU:N	2:B:288:TYR:HB2	1.54	1.20
1:A:606:PHE:CE1	1:A:633:PHE:HB2	1.75	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:12:LEU:HB3	4:M:13:LYS:CG	1.70	1.20
1:A:260:PHE:O	1:A:261:THR:C	1.69	1.19
2:B:313:SER:OG	4:M:269:ILE:O	1.60	1.19
4:M:221:THR:N	4:M:474:THR:OG1	1.73	1.19
1:A:329:ASN:HA	3:S:50:PHE:CE1	1.75	1.19
1:A:563:CYS:HB3	1:A:621:LEU:HD11	1.24	1.19
2:B:523:PHE:CE2	2:B:580:TYR:CD2	2.30	1.19
1:A:410:TYR:CD1	3:S:43:ASN:ND2	2.10	1.19
1:A:504:ILE:HA	4:M:59:ASP:CG	1.68	1.19
2:B:375:LEU:HD13	2:B:404:ASN:HB2	1.21	1.19
4:M:121:ILE:O	4:M:125:PHE:CD1	1.95	1.19
2:B:226:LEU:HD23	2:B:255:TYR:CE1	1.77	1.19
2:B:245:GLN:CD	2:B:309:LEU:HD11	1.66	1.19
2:B:256:CYS:CB	2:B:328:LEU:CD2	2.19	1.19
2:B:268:LYS:O	2:B:273:SER:OG	1.55	1.19
2:B:375:LEU:HD13	2:B:404:ASN:ND2	1.52	1.19
2:B:403:ILE:CD1	2:B:439:CYS:HA	1.62	1.19
2:B:523:PHE:CZ	2:B:580:TYR:CD2	2.30	1.19
1:A:638:LEU:HD23	2:B:561:ASP:CG	1.65	1.18
2:B:2:VAL:CG1	4:M:54:SER:OG	1.89	1.18
2:B:106:LEU:CD2	4:M:130:GLU:CA	2.14	1.18
2:B:136:CYS:SG	2:B:169:VAL:HA	1.83	1.18
1:A:215:VAL:CG1	1:A:243:ILE:HG21	1.74	1.18
1:A:503:ASN:CB	4:M:59:ASP:C	2.16	1.18
1:A:186:PHE:CE2	1:A:224:GLU:HB2	1.77	1.18
1:A:275:LEU:O	1:A:276:PRO:C	1.73	1.18
2:B:11:ALA:CA	2:B:40:GLN:NE2	2.06	1.18
2:B:261:PRO:CD	2:B:293:VAL:HG23	1.74	1.18
2:B:274:PRO:HG2	2:B:295:ASN:OD1	1.37	1.18
2:B:351:GLU:HB3	4:M:476:THR:CB	1.74	1.18
2:B:223:LEU:CD1	2:B:259:TYR:N	2.05	1.18
2:B:252:LEU:CD1	2:B:302:PHE:CD1	2.27	1.18
2:B:278:PRO:HA	2:B:288:TYR:CB	1.73	1.18
1:A:638:LEU:CD1	2:B:557:SER:C	2.17	1.17
2:B:144:ASP:OD1	4:M:131:ALA:HA	1.40	1.17
2:B:219:TYR:CZ	2:B:226:LEU:CA	2.27	1.17
2:B:245:GLN:CD	2:B:309:LEU:CD1	2.16	1.17
2:B:335:LYS:HA	2:B:370:ASP:OD2	1.43	1.17
2:B:155:LEU:CD2	2:B:192:LEU:HD11	1.75	1.17
2:B:433:VAL:HG12	2:B:474:VAL:CG2	1.73	1.17
2:B:158:VAL:CG1	2:B:177:ILE:CG1	2.22	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:383:VAL:O	2:B:385:PRO:HD3	1.45	1.17
4:M:222:PHE:C	4:M:479:PHE:CZ	2.23	1.17
2:B:73:ASP:CG	4:M:24:ALA:HB1	1.68	1.17
2:B:374:PHE:CE2	2:B:402:LEU:HD13	1.75	1.17
4:M:275:CYS:SG	4:M:293:PRO:HB3	1.85	1.17
4:M:432:THR:OG1	4:M:480:GLN:HG3	1.00	1.17
2:B:28:SER:O	2:B:58:GLU:CG	1.90	1.16
2:B:155:LEU:CD2	2:B:192:LEU:CD1	2.23	1.16
2:B:564:LYS:HD2	2:B:621:GLY:O	1.02	1.16
2:B:223:LEU:CD1	2:B:258:GLN:C	2.19	1.16
2:B:252:LEU:HB2	2:B:302:PHE:CE1	1.79	1.16
2:B:293:VAL:C	2:B:299:LEU:HG	1.71	1.16
2:B:322:CYS:SG	2:B:366:LEU:HD11	1.83	1.16
2:B:400:SER:HB3	2:B:435:SER:HB3	1.18	1.16
3:S:8:PHE:HB3	3:S:36:TYR:OH	1.42	1.16
2:B:16:LYS:HD3	4:M:115:VAL:HG21	1.21	1.16
2:B:296:ASP:OD1	2:B:297:PRO:CD	1.93	1.16
2:B:479:VAL:HG22	2:B:486:HIS:CD2	1.79	1.16
4:M:219:LEU:HD22	4:M:473:LYS:HA	1.16	1.16
1:A:233:PHE:O	1:A:234:ILE:C	1.71	1.16
2:B:38:TYR:OH	2:B:46:GLN:CB	1.92	1.16
2:B:73:ASP:N	4:M:19:LEU:HD22	1.51	1.16
2:B:106:LEU:CD1	2:B:144:ASP:O	1.92	1.16
2:B:216:LYS:CA	2:B:251:LEU:HD13	1.76	1.16
2:B:568:VAL:HG12	2:B:571:SER:OG	1.44	1.16
1:A:258:LYS:NZ	3:S:93:GLU:HA	1.57	1.15
1:A:410:TYR:CE1	3:S:43:ASN:ND2	2.13	1.15
2:B:2:VAL:CG1	4:M:54:SER:HB3	1.74	1.15
2:B:178:ILE:HG12	2:B:214:ALA:HB1	1.19	1.15
2:B:476:ARG:HA	2:B:514:LEU:HD13	1.16	1.15
1:A:503:ASN:CG	4:M:60:LEU:HD23	1.71	1.15
2:B:158:VAL:HG11	2:B:177:ILE:HG13	1.27	1.15
4:M:302:TYR:CD1	4:M:445:SER:HB3	1.80	1.15
1:A:179:LYS:HE3	3:S:140:MET:CB	1.75	1.15
1:A:411:GLU:OE2	3:S:46:PHE:CE1	1.99	1.15
2:B:64:LYS:NZ	4:M:120:ARG:NH1	1.94	1.15
2:B:211:ALA:C	2:B:233:TYR:OH	1.90	1.15
2:B:219:TYR:CE1	2:B:226:LEU:HB2	1.81	1.15
1:A:186:PHE:CE2	1:A:224:GLU:CG	2.30	1.15
2:B:219:TYR:CE2	2:B:226:LEU:CB	2.28	1.15
2:B:313:SER:CB	4:M:269:ILE:HB	1.64	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:254:ILE:HG21	3:S:94:SER:OG	1.44	1.15
2:B:16:LYS:CD	4:M:115:VAL:HG21	1.76	1.15
2:B:236:ILE:CG2	2:B:240:LEU:HD11	1.77	1.15
2:B:259:TYR:O	2:B:261:PRO:HD3	1.31	1.15
4:M:241:HIS:O	4:M:474:THR:CB	1.94	1.15
4:M:344:ILE:HG23	4:M:347:PHE:CB	1.71	1.15
2:B:212:VAL:HG21	2:B:248:LEU:HD21	1.29	1.14
4:M:41:LEU:HD12	4:M:52:ASP:H	1.02	1.14
1:A:638:LEU:HD12	2:B:557:SER:C	1.71	1.14
2:B:13:ASP:O	2:B:17:VAL:HG22	1.46	1.14
2:B:236:ILE:HG22	2:B:240:LEU:CD1	1.77	1.14
2:B:252:LEU:HB3	2:B:302:PHE:CD2	1.81	1.14
2:B:343:LEU:HD23	2:B:363:ILE:HD13	1.15	1.14
4:M:244:VAL:HA	4:M:472:TYR:CE2	1.81	1.14
4:M:347:PHE:CE1	4:M:350:VAL:HG11	1.69	1.14
2:B:70:MET:HE1	2:B:107:ARG:HG3	1.28	1.14
2:B:375:LEU:O	2:B:377:TYR:N	1.78	1.14
2:B:556:LEU:HD22	2:B:588:ILE:HG12	1.26	1.14
2:B:25:VAL:HG22	2:B:30:LEU:O	1.45	1.14
1:A:186:PHE:CE2	1:A:224:GLU:HG2	1.83	1.14
2:B:2:VAL:HG11	4:M:54:SER:OG	1.39	1.14
3:S:17:VAL:HG21	3:S:19:PHE:CZ	1.83	1.14
4:M:95:THR:OG1	4:M:137:SER:O	1.64	1.14
4:M:343:ASN:HA	4:M:408:VAL:HG13	1.15	1.14
1:A:406:GLY:O	3:S:64:ASN:ND2	1.76	1.13
1:A:408:ILE:HG21	3:S:41:GLN:HB3	1.14	1.13
2:B:14:THR:CG2	2:B:36:THR:HG22	1.77	1.13
2:B:20:ARG:NH1	4:M:118:TYR:CB	1.99	1.13
2:B:216:LYS:HA	2:B:251:LEU:HD11	1.14	1.13
4:M:262:THR:CG2	4:M:265:ASN:H	1.61	1.13
2:B:219:TYR:CD2	2:B:226:LEU:HB2	1.84	1.13
2:B:341:GLU:CG	2:B:377:TYR:CE1	2.25	1.13
2:B:344:VAL:HG13	2:B:381:PHE:CE2	1.82	1.13
4:M:222:PHE:O	4:M:479:PHE:CZ	2.00	1.13
2:B:127:LEU:HD13	2:B:157:THR:HG21	1.30	1.13
2:B:325:LEU:HD13	2:B:339:PHE:HB3	1.18	1.13
4:M:71:LYS:HB3	4:M:74:TYR:CZ	1.83	1.13
1:A:114:PHE:CZ	1:A:153:ILE:HA	1.83	1.12
1:A:530:ASN:ND2	1:A:573:GLU:OE1	1.80	1.13
2:B:103:LEU:HB3	4:M:126:ASN:HD22	1.00	1.12
2:B:469:ASP:OD2	2:B:506:ASN:HB2	1.47	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:333:ILE:HD13	3:S:95:GLU:OE1	1.47	1.12
2:B:23:ALA:C	2:B:32:GLU:OE1	1.90	1.12
2:B:143:SER:HB2	2:B:179:LYS:CB	1.79	1.12
2:B:18:ILE:CD1	2:B:36:THR:HG21	1.76	1.12
2:B:72:SER:HB3	4:M:17:GLN:OE1	1.42	1.12
2:B:486:HIS:CE1	2:B:518:ILE:CD1	2.33	1.12
4:M:302:TYR:CE1	4:M:445:SER:HB3	1.84	1.12
4:M:350:VAL:HG13	4:M:442:GLN:HB3	1.16	1.12
1:A:503:ASN:CA	4:M:59:ASP:O	1.98	1.12
2:B:106:LEU:HG	4:M:130:GLU:OE1	1.47	1.12
2:B:219:TYR:CZ	2:B:226:LEU:CB	2.31	1.12
4:M:219:LEU:HB2	4:M:472:TYR:O	1.43	1.12
1:A:606:PHE:HZ	1:A:633:PHE:CG	1.68	1.12
2:B:12:LEU:CD1	4:M:13:LYS:CA	2.27	1.12
2:B:12:LEU:CB	4:M:13:LYS:HG3	1.80	1.12
2:B:38:TYR:HE2	2:B:43:ASN:O	1.12	1.12
2:B:82:TYR:HB2	2:B:104:TYR:OH	1.50	1.12
2:B:230:PHE:O	2:B:231:ARG:O	1.66	1.12
2:B:261:PRO:HD3	2:B:293:VAL:HG23	1.26	1.12
2:B:422:ALA:HB3	2:B:424:PHE:CE2	1.85	1.12
2:B:181:TYR:CE1	2:B:185:LYS:HG3	1.85	1.11
4:M:219:LEU:HD13	4:M:472:TYR:O	1.40	1.11
2:B:9:ALA:HB1	4:M:14:LEU:CB	1.80	1.11
2:B:375:LEU:HD13	2:B:404:ASN:CG	1.74	1.11
2:B:12:LEU:HD12	4:M:13:LYS:HA	1.11	1.11
2:B:25:VAL:HG22	2:B:31:GLY:N	1.64	1.11
1:A:556:VAL:HG21	1:A:603:VAL:HG21	1.15	1.11
2:B:16:LYS:HB3	4:M:115:VAL:HG11	1.19	1.11
2:B:29:LYS:N	2:B:30:LEU:HA	1.56	1.11
2:B:107:ARG:NH1	4:M:20:LEU:CD2	2.09	1.11
4:M:106:LYS:O	4:M:107:ASP:C	1.89	1.11
4:M:244:VAL:CA	4:M:472:TYR:CD2	2.33	1.11
4:M:268:GLY:N	4:M:302:TYR:OH	1.83	1.11
1:A:215:VAL:CG1	1:A:243:ILE:CG2	2.28	1.10
2:B:252:LEU:CB	2:B:302:PHE:CZ	2.35	1.10
4:M:2:TYR:OH	4:M:64:LYS:NZ	1.82	1.10
4:M:347:PHE:CE1	4:M:350:VAL:HG12	1.84	1.10
1:A:429:VAL:CB	1:A:469:LEU:HD11	1.81	1.10
1:A:503:ASN:OD1	4:M:60:LEU:HA	0.93	1.10
2:B:303:LEU:HD22	2:B:339:PHE:CZ	1.85	1.10
2:B:348:THR:HG21	2:B:380:LYS:HB3	1.18	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:107:ARG:HH22	4:M:20:LEU:HD21	1.00	1.10
2:B:344:VAL:HG11	2:B:377:TYR:HB3	1.18	1.10
2:B:219:TYR:CD2	2:B:226:LEU:HD13	1.85	1.10
2:B:280:PRO:HG2	2:B:283:TYR:CD2	1.86	1.10
2:B:318:ILE:CD1	2:B:346:THR:OG1	2.00	1.10
2:B:337:THR:N	2:B:373:LEU:HD21	1.66	1.10
2:B:451:MET:HG3	2:B:489:ILE:HG12	1.32	1.10
4:M:341:SER:OG	4:M:343:ASN:ND2	1.84	1.10
1:A:125:THR:OG1	1:A:158:LEU:HD13	1.48	1.09
2:B:211:ALA:HB3	2:B:233:TYR:OH	1.48	1.09
2:B:310:ILE:CG2	2:B:342:ALA:HB1	1.82	1.09
3:S:16:LEU:HB2	3:S:125:TRP:NE1	1.66	1.09
4:M:44:ASP:HB3	4:M:50:TYR:CD2	1.86	1.09
4:M:51:LEU:HB3	4:M:68:VAL:HG21	1.31	1.09
2:B:11:ALA:CA	2:B:40:GLN:HE22	1.60	1.09
2:B:70:MET:CE	2:B:107:ARG:HG3	1.80	1.09
2:B:106:LEU:HD13	2:B:144:ASP:HB2	1.18	1.09
2:B:158:VAL:HG11	2:B:177:ILE:HG12	1.10	1.09
2:B:274:PRO:CA	2:B:295:ASN:OD1	2.00	1.09
2:B:479:VAL:HG11	2:B:486:HIS:CE1	1.60	1.09
4:M:350:VAL:CG2	4:M:442:GLN:HG2	1.82	1.09
2:B:310:ILE:HD11	2:B:321:CYS:HB2	1.29	1.09
2:B:479:VAL:HG13	2:B:486:HIS:CG	1.87	1.09
2:B:223:LEU:HD13	2:B:258:GLN:C	1.76	1.09
2:B:224:GLU:CA	2:B:259:TYR:OH	0.79	1.09
3:S:35:VAL:HG12	3:S:77:TYR:OH	1.53	1.09
4:M:76:CYS:SG	4:M:97:ASP:OD1	2.10	1.09
4:M:262:THR:O	4:M:264:GLY:N	1.85	1.09
1:A:68:THR:HB	3:S:166:LYS:CB	1.83	1.09
1:A:114:PHE:CD1	1:A:153:ILE:HG23	1.88	1.09
2:B:20:ARG:CZ	4:M:118:TYR:HB3	1.82	1.09
2:B:276:SER:O	2:B:295:ASN:CB	1.99	1.09
1:A:179:LYS:HE3	3:S:140:MET:HB3	1.12	1.08
2:B:24:ALA:HB3	2:B:32:GLU:HG2	1.12	1.08
2:B:280:PRO:CG	2:B:283:TYR:CD2	2.36	1.08
4:M:20:LEU:HD22	4:M:129:VAL:HG21	1.29	1.08
4:M:106:LYS:CE	4:M:296:LYS:HE3	1.82	1.08
4:M:350:VAL:HG22	4:M:442:GLN:HG2	1.09	1.08
1:A:429:VAL:HB	1:A:469:LEU:HD11	1.33	1.08
1:A:506:LYS:CE	4:M:82:LYS:CB	2.31	1.08
2:B:340:ILE:HG12	2:B:373:LEU:HD23	1.36	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:512:VAL:C	2:B:551:LEU:HD13	1.78	1.08
4:M:44:ASP:HB2	4:M:50:TYR:CD2	1.88	1.08
4:M:106:LYS:HE2	4:M:296:LYS:CE	1.83	1.08
4:M:219:LEU:CG	4:M:472:TYR:O	2.02	1.08
2:B:18:ILE:HD13	2:B:36:THR:HG21	1.33	1.08
2:B:106:LEU:HD22	2:B:144:ASP:CG	1.77	1.08
2:B:375:LEU:HD12	2:B:404:ASN:HD22	1.19	1.08
4:M:69:ILE:O	4:M:75:TRP:HA	1.53	1.08
1:A:595:GLU:OE1	2:B:513:TRP:HZ3	1.14	1.08
2:B:158:VAL:CG1	2:B:177:ILE:HG13	1.82	1.08
2:B:237:ILE:O	2:B:239:GLN:N	1.85	1.08
4:M:106:LYS:HE2	4:M:296:LYS:HE3	1.18	1.08
4:M:306:LEU:CD2	4:M:317:MET:CE	2.32	1.08
1:A:503:ASN:CG	4:M:60:LEU:CA	2.26	1.08
2:B:1:MET:HG2	4:M:39:PRO:HD3	1.30	1.08
2:B:104:TYR:O	2:B:107:ARG:CB	2.01	1.08
2:B:140:SER:HB2	2:B:172:GLU:OE1	1.51	1.08
2:B:178:ILE:CG1	2:B:214:ALA:C	2.27	1.08
2:B:236:ILE:O	2:B:240:LEU:HG	1.54	1.08
2:B:418:TYR:OH	2:B:432:ALA:CB	2.02	1.08
1:A:111:SER:HB2	1:A:152:THR:OG1	1.54	1.07
1:A:536:MET:CG	1:A:551:LEU:HD11	1.83	1.07
1:A:559:PHE:CE2	1:A:581:LEU:HD22	1.88	1.07
1:A:585:PHE:CE2	1:A:603:VAL:CG1	2.37	1.07
2:B:18:ILE:HD13	2:B:36:THR:CG2	1.81	1.07
2:B:103:LEU:HB3	4:M:126:ASN:ND2	1.68	1.07
2:B:433:VAL:HG21	2:B:471:TYR:CD2	1.88	1.07
2:B:556:LEU:CB	2:B:588:ILE:HD11	1.82	1.07
3:S:8:PHE:CD2	3:S:84:TYR:HB2	1.89	1.07
2:B:231:ARG:HG3	2:B:298:ASP:OD1	1.52	1.07
2:B:256:CYS:HB2	2:B:328:LEU:HD23	1.32	1.07
4:M:9:ASP:HB2	4:M:111:ILE:CG2	1.83	1.07
2:B:106:LEU:CB	4:M:130:GLU:HB3	1.85	1.07
2:B:247:TYR:CD1	4:M:136:VAL:HG12	1.89	1.07
2:B:386:LYS:NZ	4:M:478:ASN:OD1	1.86	1.07
2:B:433:VAL:HG11	2:B:471:TYR:N	1.69	1.07
2:B:556:LEU:HA	2:B:588:ILE:HD11	1.31	1.07
4:M:347:PHE:CD1	4:M:350:VAL:HB	1.89	1.07
2:B:223:LEU:CD1	2:B:258:GLN:CB	2.33	1.07
2:B:348:THR:CG2	2:B:380:LYS:HB3	1.84	1.07
1:A:289:SER:O	1:A:290:VAL:C	1.83	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:38:TYR:OH	2:B:46:GLN:HB2	1.52	1.07
2:B:278:PRO:HG2	2:B:292:GLU:OE1	1.54	1.07
2:B:293:VAL:O	2:B:299:LEU:HD12	1.52	1.07
2:B:325:LEU:HD13	2:B:339:PHE:CB	1.84	1.07
2:B:461:HIS:O	2:B:462:ASN:HB3	1.43	1.07
4:M:223:HIS:ND1	4:M:476:THR:OG1	1.81	1.07
1:A:137:ASN:O	1:A:139:ASP:N	1.88	1.06
1:A:503:ASN:CG	4:M:60:LEU:HA	1.79	1.06
2:B:70:MET:HE1	2:B:107:ARG:CG	1.84	1.06
2:B:74:ASP:O	2:B:77:ILE:CG1	2.03	1.06
2:B:341:GLU:CG	2:B:377:TYR:HE1	1.61	1.06
2:B:400:SER:HB3	2:B:435:SER:CA	1.85	1.06
4:M:306:LEU:CD1	4:M:317:MET:HE1	1.85	1.06
4:M:375:LYS:HE2	4:M:418:GLU:OE1	1.55	1.06
1:A:225:LEU:HB3	1:A:233:PHE:CE2	1.89	1.06
4:M:261:ASN:HB2	4:M:450:GLU:CG	1.85	1.06
1:A:504:ILE:CA	4:M:59:ASP:OD2	2.01	1.06
2:B:178:ILE:HG23	2:B:217:GLU:HB2	1.16	1.06
2:B:564:LYS:CE	2:B:621:GLY:O	2.02	1.06
4:M:443:SER:HB3	4:M:447:ILE:CG1	1.85	1.06
1:A:186:PHE:HE2	1:A:224:GLU:HB2	0.94	1.06
2:B:1:MET:CG	4:M:39:PRO:CD	2.34	1.06
2:B:139:LEU:HG	2:B:176:ALA:HB2	1.37	1.06
2:B:309:LEU:HB3	2:B:317:VAL:HG12	1.35	1.06
2:B:374:PHE:CE1	2:B:381:PHE:CE2	2.44	1.06
2:B:433:VAL:HG12	2:B:474:VAL:HG21	1.36	1.06
2:B:556:LEU:HA	2:B:588:ILE:CD1	1.84	1.06
2:B:567:GLN:C	2:B:569:THR:N	2.11	1.06
2:B:569:THR:HG22	2:B:569:THR:O	1.47	1.06
4:M:96:ILE:HG23	4:M:125:PHE:CE1	1.90	1.06
4:M:96:ILE:CG2	4:M:125:PHE:CE1	2.39	1.06
1:A:504:ILE:CD1	4:M:59:ASP:OD2	2.04	1.06
2:B:25:VAL:CG2	2:B:32:GLU:N	2.12	1.06
2:B:199:LEU:O	2:B:201:ALA:N	1.87	1.06
2:B:403:ILE:HG21	2:B:439:CYS:SG	1.95	1.06
4:M:243:ILE:O	4:M:472:TYR:CD2	2.09	1.06
4:M:273:HIS:HB2	4:M:298:ARG:O	1.55	1.06
1:A:200:PHE:CZ	1:A:236:LEU:HD21	1.90	1.05
1:A:462:GLN:C	4:M:58:ARG:HA	1.81	1.05
1:A:573:GLU:O	1:A:574:ILE:C	1.77	1.05
2:B:73:ASP:H	4:M:19:LEU:HD23	1.20	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:219:TYR:HB3	2:B:223:LEU:HD23	1.33	1.05
2:B:418:TYR:CD1	2:B:418:TYR:C	2.34	1.05
4:M:243:ILE:O	4:M:472:TYR:CG	2.08	1.05
4:M:379:LEU:HD23	4:M:411:LEU:HG	1.33	1.05
2:B:196:LEU:HB3	2:B:215:TYR:CZ	1.91	1.05
2:B:476:ARG:HA	2:B:514:LEU:CD1	1.84	1.05
2:B:73:ASP:CB	4:M:19:LEU:HD22	1.87	1.05
2:B:100:LEU:HD21	4:M:123:LEU:HD22	1.38	1.05
4:M:48:ASP:O	4:M:70:ASN:HB3	1.56	1.05
4:M:323:MET:SD	4:M:342:LEU:HA	1.96	1.05
1:A:186:PHE:CZ	1:A:224:GLU:HG2	1.92	1.05
1:A:582:ILE:HG23	1:A:604:LEU:HG	1.33	1.05
2:B:70:MET:CE	2:B:107:ARG:CG	2.34	1.05
2:B:396:ILE:HD13	2:B:432:ALA:HB2	1.36	1.05
1:A:585:PHE:CE2	1:A:603:VAL:HG11	1.91	1.05
2:B:12:LEU:CD1	4:M:13:LYS:CG	2.23	1.05
2:B:64:LYS:NZ	4:M:120:ARG:HH12	1.50	1.05
2:B:73:ASP:H	4:M:19:LEU:CD2	1.60	1.05
2:B:106:LEU:HD11	2:B:144:ASP:HB3	1.07	1.05
2:B:162:VAL:HG21	2:B:195:ILE:HG22	1.31	1.05
2:B:213:LEU:HD13	4:M:135:ASN:CG	1.81	1.05
2:B:310:ILE:HG12	2:B:318:ILE:HA	1.39	1.05
1:A:186:PHE:HE2	1:A:224:GLU:CB	1.62	1.04
2:B:12:LEU:HD13	4:M:13:LYS:CA	1.88	1.04
2:B:69:ILE:O	2:B:71:ALA:N	1.90	1.04
2:B:313:SER:HB3	4:M:269:ILE:HB	1.09	1.04
2:B:461:HIS:O	2:B:462:ASN:CB	1.98	1.04
3:S:32:LEU:O	3:S:35:VAL:CG2	2.04	1.04
1:A:506:LYS:HE2	4:M:82:LYS:HB3	1.04	1.04
2:B:38:TYR:OH	2:B:46:GLN:HG3	1.56	1.04
2:B:143:SER:CB	2:B:179:LYS:HB2	1.86	1.04
2:B:223:LEU:CD1	2:B:258:GLN:HB3	1.88	1.04
2:B:295:ASN:O	2:B:300:ASP:HB2	0.89	1.04
2:B:336:ASN:C	2:B:373:LEU:CD2	2.29	1.04
1:A:225:LEU:HD13	1:A:233:PHE:HZ	1.14	1.04
2:B:73:ASP:CG	4:M:19:LEU:HD13	1.82	1.04
4:M:41:LEU:CD1	4:M:52:ASP:N	2.20	1.04
4:M:344:ILE:HG22	4:M:347:PHE:HB3	1.09	1.04
1:A:333:ILE:HD11	3:S:95:GLU:OE1	1.52	1.04
1:A:638:LEU:CD2	2:B:561:ASP:H	1.70	1.04
2:B:38:TYR:CE2	2:B:43:ASN:C	2.35	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:103:LEU:HD12	4:M:123:LEU:HD11	1.06	1.04
2:B:143:SER:CB	2:B:179:LYS:HD2	1.88	1.04
2:B:178:ILE:HD12	2:B:218:CYS:H	1.23	1.04
2:B:216:LYS:CA	2:B:251:LEU:HD11	1.85	1.04
2:B:274:PRO:C	2:B:295:ASN:OD1	1.69	1.04
2:B:299:LEU:O	2:B:302:PHE:HB3	1.58	1.04
2:B:379:LYS:HE2	2:B:410:GLU:HG3	1.06	1.04
2:B:556:LEU:HD22	2:B:588:ILE:CG1	1.88	1.04
4:M:220:GLU:HG2	4:M:439:TYR:HB2	1.38	1.04
4:M:245:ASP:C	4:M:472:TYR:CE1	2.35	1.04
1:A:179:LYS:HE2	3:S:137:GLN:O	0.86	1.03
2:B:196:LEU:HB3	2:B:215:TYR:CE1	1.92	1.03
2:B:552:SER:O	2:B:556:LEU:HG	1.58	1.03
2:B:9:ALA:CA	4:M:14:LEU:HB2	1.89	1.03
2:B:17:VAL:CB	2:B:35:TYR:CD2	2.40	1.03
3:S:53:THR:HG21	3:S:68:VAL:HA	1.36	1.03
3:S:73:ILE:CG2	3:S:88:ILE:HG23	1.87	1.03
1:A:638:LEU:HD13	2:B:557:SER:OG	1.58	1.03
2:B:17:VAL:CB	2:B:35:TYR:HD2	1.71	1.03
2:B:212:VAL:HG23	2:B:233:TYR:CE1	1.94	1.03
2:B:344:VAL:CG1	2:B:377:TYR:HB3	1.90	1.02
2:B:347:VAL:HG11	2:B:381:PHE:CE1	1.94	1.02
2:B:469:ASP:CG	2:B:506:ASN:HB2	1.84	1.02
4:M:105:ASP:O	4:M:106:LYS:CB	2.02	1.02
4:M:350:VAL:HA	4:M:442:GLN:HB2	1.38	1.02
2:B:224:GLU:CA	2:B:259:TYR:CZ	1.87	1.02
2:B:309:LEU:HB3	2:B:317:VAL:HG11	1.38	1.02
1:A:215:VAL:HG11	1:A:243:ILE:HG23	1.40	1.02
1:A:422:GLU:OE1	3:S:62:GLU:CG	2.07	1.02
1:A:462:GLN:OE1	4:M:58:ARG:CB	2.02	1.02
2:B:75:ASP:OD1	4:M:24:ALA:CB	2.07	1.02
2:B:103:LEU:CD1	4:M:123:LEU:CD1	2.37	1.02
2:B:174:ALA:HB1	2:B:211:ALA:HA	1.40	1.02
2:B:245:GLN:OE1	2:B:309:LEU:HD12	1.59	1.02
2:B:337:THR:OG1	2:B:373:LEU:HD13	1.58	1.02
4:M:243:ILE:O	4:M:472:TYR:HB3	1.54	1.02
4:M:245:ASP:O	4:M:472:TYR:HE1	1.11	1.02
2:B:313:SER:HB3	4:M:269:ILE:CB	1.89	1.02
4:M:54:SER:H	4:M:66:PHE:HD2	1.05	1.02
4:M:224:VAL:H	4:M:479:PHE:CB	1.73	1.02
1:A:503:ASN:OD1	4:M:60:LEU:CD2	2.08	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:79:VAL:HG23	2:B:108:PHE:CE2	1.94	1.02
2:B:256:CYS:HB2	2:B:328:LEU:CD2	1.84	1.02
2:B:351:GLU:HB3	4:M:476:THR:HB	1.02	1.02
4:M:65:TYR:O	4:M:79:SER:HA	1.58	1.02
1:A:68:THR:HB	3:S:166:LYS:HB3	1.03	1.01
2:B:219:TYR:CD1	2:B:226:LEU:HB2	1.95	1.01
2:B:328:LEU:HB3	2:B:333:GLN:HE22	1.22	1.01
2:B:343:LEU:CD2	2:B:363:ILE:HD13	1.90	1.01
2:B:389:ILE:CG1	2:B:425:PRO:HG2	1.88	1.01
4:M:15:ILE:HG23	4:M:115:VAL:CG2	1.90	1.01
4:M:306:LEU:HD22	4:M:317:MET:CE	1.89	1.01
2:B:12:LEU:CD1	4:M:13:LYS:CB	2.39	1.01
2:B:252:LEU:CB	2:B:302:PHE:CE2	2.44	1.01
1:A:585:PHE:HE2	1:A:603:VAL:CG1	1.73	1.01
1:A:585:PHE:O	1:A:600:SER:OG	1.79	1.01
2:B:14:THR:HA	2:B:36:THR:HA	1.41	1.01
2:B:38:TYR:CD2	2:B:43:ASN:N	2.09	1.01
2:B:193:LEU:CD2	2:B:225:LEU:HB3	1.75	1.01
2:B:433:VAL:HG11	2:B:471:TYR:HA	1.06	1.01
3:S:127:THR:CG2	3:S:153:VAL:HG13	1.90	1.01
1:A:411:GLU:HG3	3:S:46:PHE:CZ	1.95	1.01
2:B:12:LEU:HB3	4:M:13:LYS:HG2	1.40	1.01
2:B:73:ASP:CB	4:M:25:PRO:O	2.07	1.01
2:B:143:SER:C	2:B:179:LYS:HD3	1.85	1.01
2:B:167:ALA:O	2:B:207:VAL:CG2	2.07	1.01
2:B:423:HIS:NE2	4:M:365:GLU:CB	2.23	1.01
4:M:261:ASN:HB2	4:M:450:GLU:HG3	1.42	1.01
4:M:443:SER:CB	4:M:447:ILE:HG13	1.91	1.01
1:A:528:ASN:O	1:A:529:GLY:C	1.98	1.01
1:A:556:VAL:CG2	1:A:603:VAL:HG21	1.90	1.01
2:B:219:TYR:CD2	2:B:226:LEU:CD2	2.43	1.01
2:B:259:TYR:HD1	2:B:261:PRO:HG3	1.15	1.01
2:B:375:LEU:CD1	2:B:404:ASN:HB2	1.91	1.01
2:B:447:GLU:OE1	2:B:485:LYS:HG3	1.61	1.01
4:M:218:LEU:O	4:M:441:GLY:CA	2.09	1.01
4:M:302:TYR:CE1	4:M:445:SER:CB	2.44	1.01
4:M:405:THR:C	4:M:407:THR:N	2.09	1.01
2:B:5:ILE:CG2	4:M:42:LEU:CD1	2.32	1.00
2:B:44:PRO:HB3	2:B:82:TYR:OH	1.59	1.00
2:B:69:ILE:O	2:B:70:MET:C	2.00	1.00
2:B:278:PRO:CD	2:B:292:GLU:CB	2.28	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:563:PHE:HD1	2:B:584:SER:CB	1.73	1.00
4:M:68:VAL:HA	4:M:76:CYS:O	1.59	1.00
2:B:224:GLU:N	2:B:259:TYR:OH	1.74	1.00
2:B:398:ILE:CG2	2:B:402:LEU:HD11	1.91	1.00
2:B:497:LEU:O	2:B:498:THR:C	1.92	1.00
1:A:409:VAL:CG1	3:S:42:ARG:HH12	1.74	1.00
1:A:506:LYS:CE	4:M:82:LYS:HB2	1.92	1.00
1:A:556:VAL:HG22	1:A:603:VAL:HG11	1.40	1.00
2:B:212:VAL:O	2:B:213:LEU:C	1.94	1.00
2:B:267:ASP:H	2:B:289:PRO:HG3	1.23	1.00
2:B:278:PRO:C	2:B:288:TYR:HB2	1.85	1.00
2:B:174:ALA:CB	2:B:211:ALA:HA	1.90	1.00
2:B:245:GLN:NE2	2:B:309:LEU:HD11	1.74	1.00
2:B:279:LEU:HG	2:B:288:TYR:HD2	1.25	1.00
2:B:578:PRO:HD2	2:B:581:TYR:CD2	1.97	1.00
4:M:214:LEU:HD23	4:M:214:LEU:O	1.62	1.00
4:M:245:ASP:CA	4:M:472:TYR:CE1	2.45	1.00
4:M:347:PHE:CZ	4:M:350:VAL:HG12	1.95	1.00
2:B:70:MET:HE1	2:B:107:ARG:CB	1.92	1.00
2:B:155:LEU:HD21	2:B:192:LEU:HD12	1.44	1.00
2:B:212:VAL:HG21	2:B:248:LEU:CD2	1.92	1.00
2:B:193:LEU:CD2	2:B:225:LEU:HB2	1.88	1.00
2:B:437:SER:CA	2:B:474:VAL:HG13	1.91	1.00
3:S:8:PHE:CE2	3:S:84:TYR:CB	2.45	1.00
1:A:589:SER:CA	1:A:597:GLN:HG3	1.92	1.00
1:A:114:PHE:O	1:A:115:TYR:C	2.03	0.99
2:B:136:CYS:HB3	2:B:172:GLU:HG3	1.38	0.99
2:B:243:TRP:CZ3	4:M:98:ARG:HD2	1.96	0.99
2:B:252:LEU:O	2:B:302:PHE:CE2	2.14	0.99
2:B:344:VAL:HG21	2:B:377:TYR:CB	1.92	0.99
1:A:323:CYS:SG	1:A:334:SER:HB3	2.02	0.99
2:B:219:TYR:CG	2:B:226:LEU:HB2	1.96	0.99
2:B:403:ILE:HD13	2:B:439:CYS:HA	1.19	0.99
4:M:220:GLU:CD	4:M:439:TYR:HD2	1.71	0.99
4:M:306:LEU:HD22	4:M:317:MET:HE3	1.44	0.99
1:A:137:ASN:C	1:A:139:ASP:N	2.12	0.99
2:B:337:THR:CA	2:B:373:LEU:CD1	1.76	0.99
1:A:450:TYR:OH	1:A:476:GLN:HG3	1.57	0.99
2:B:17:VAL:HG11	2:B:35:TYR:CE2	1.98	0.99
2:B:227:HIS:C	2:B:298:ASP:OD2	2.06	0.99
2:B:261:PRO:HD3	2:B:293:VAL:CG2	1.91	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:20:LEU:HD22	4:M:129:VAL:CG2	1.91	0.99
2:B:105:LEU:HB3	2:B:145:MET:HE1	1.44	0.99
2:B:252:LEU:HB3	2:B:302:PHE:CE2	1.97	0.99
4:M:74:TYR:CB	4:M:114:ILE:HD11	1.93	0.99
4:M:220:GLU:HG3	4:M:439:TYR:CD2	1.96	0.99
1:A:319:LEU:O	1:A:320:HIS:C	2.02	0.99
2:B:211:ALA:HB1	2:B:233:TYR:OH	1.58	0.99
2:B:310:ILE:O	2:B:311:TYR:C	1.95	0.99
2:B:106:LEU:CD2	4:M:130:GLU:HA	1.92	0.99
2:B:256:CYS:SG	2:B:299:LEU:HD23	2.03	0.99
2:B:278:PRO:HA	2:B:288:TYR:C	1.87	0.99
2:B:312:SER:C	4:M:269:ILE:HD13	1.73	0.99
3:S:35:VAL:CG1	3:S:77:TYR:OH	2.10	0.99
4:M:245:ASP:CB	4:M:472:TYR:CD1	2.46	0.99
1:A:402:ILE:CG1	3:S:62:GLU:O	2.09	0.99
2:B:25:VAL:CG2	2:B:31:GLY:N	2.20	0.99
2:B:211:ALA:CA	2:B:233:TYR:OH	2.09	0.99
2:B:563:PHE:C	2:B:566:ALA:HB3	1.87	0.99
4:M:344:ILE:HG23	4:M:347:PHE:HB3	1.29	0.99
2:B:519:ALA:O	2:B:523:PHE:HB3	1.61	0.99
2:B:584:SER:O	2:B:588:ILE:CG2	2.10	0.99
4:M:95:THR:CG2	4:M:137:SER:O	2.09	0.99
4:M:244:VAL:O	4:M:299:LEU:N	1.95	0.99
1:A:288:THR:HG23	3:S:96:LEU:HD21	1.40	0.99
2:B:34:SER:O	2:B:37:TYR:HB3	1.63	0.99
2:B:193:LEU:HB3	2:B:225:LEU:HD12	1.44	0.99
2:B:396:ILE:HG22	2:B:435:SER:OG	1.61	0.99
2:B:14:THR:HG22	2:B:36:THR:HG22	0.99	0.98
2:B:216:LYS:CE	4:M:133:GLU:OE2	2.10	0.98
2:B:219:TYR:OH	2:B:226:LEU:HA	1.63	0.98
4:M:443:SER:HB3	4:M:447:ILE:HG13	1.41	0.98
2:B:469:ASP:OD1	2:B:507:ALA:N	1.97	0.98
1:A:225:LEU:CD1	1:A:233:PHE:CZ	2.44	0.98
2:B:475:ILE:HG23	2:B:489:ILE:HG21	1.45	0.98
4:M:96:ILE:CG2	4:M:125:PHE:CZ	2.45	0.98
1:A:136:GLY:O	1:A:139:ASP:HB3	1.64	0.98
2:B:28:SER:C	2:B:58:GLU:CG	2.34	0.98
2:B:143:SER:HB2	2:B:179:LYS:HB2	0.99	0.98
2:B:215:TYR:HD2	2:B:233:TYR:CE2	1.70	0.98
2:B:389:ILE:HG12	2:B:425:PRO:CG	1.92	0.98
2:B:403:ILE:HD13	2:B:439:CYS:HB3	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:213:SER:HB3	3:S:142:ILE:O	1.62	0.98
2:B:196:LEU:C	2:B:215:TYR:OH	2.06	0.98
4:M:375:LYS:CE	4:M:418:GLU:OE1	2.10	0.98
4:M:306:LEU:HD11	4:M:317:MET:HE1	1.43	0.98
4:M:354:ASP:HB2	4:M:440:ILE:CD1	1.94	0.98
4:M:375:LYS:N	4:M:416:GLU:O	1.96	0.98
2:B:106:LEU:CD2	2:B:144:ASP:CG	2.37	0.97
2:B:178:ILE:HG13	2:B:214:ALA:CB	1.94	0.97
2:B:178:ILE:CG1	2:B:214:ALA:CB	2.42	0.97
2:B:322:CYS:SG	2:B:366:LEU:CD1	2.51	0.97
2:B:213:LEU:HD13	4:M:135:ASN:OD1	0.80	0.97
2:B:230:PHE:HE2	2:B:252:LEU:HD23	1.17	0.97
4:M:271:SER:O	4:M:300:LEU:HA	1.64	0.97
4:M:354:ASP:HB2	4:M:440:ILE:HD12	1.44	0.97
1:A:508:LEU:HD12	4:M:59:ASP:OD2	1.62	0.97
2:B:5:ILE:HD13	4:M:42:LEU:HD12	1.41	0.97
2:B:24:ALA:CB	2:B:32:GLU:HG2	1.88	0.97
2:B:167:ALA:O	2:B:207:VAL:HG22	1.63	0.97
2:B:13:ASP:OD1	4:M:14:LEU:O	1.81	0.97
2:B:374:PHE:CZ	2:B:381:PHE:CE2	2.51	0.97
3:S:8:PHE:HB3	3:S:36:TYR:CZ	1.98	0.97
2:B:344:VAL:HG22	2:B:374:PHE:CE1	1.98	0.97
2:B:542:PRO:O	2:B:607:ILE:HD11	1.64	0.97
4:M:96:ILE:HD12	4:M:125:PHE:CD1	1.99	0.97
1:A:601:VAL:O	1:A:602:GLU:C	1.91	0.97
2:B:162:VAL:CG2	2:B:195:ILE:CG2	2.41	0.97
2:B:400:SER:CB	2:B:435:SER:HA	1.94	0.97
2:B:588:ILE:HG23	2:B:618:PHE:CZ	1.99	0.97
2:B:23:ALA:C	2:B:32:GLU:CD	2.10	0.97
2:B:25:VAL:HG23	2:B:32:GLU:H	1.11	0.97
2:B:341:GLU:HA	2:B:377:TYR:CE1	1.65	0.97
2:B:73:ASP:N	4:M:19:LEU:CB	2.28	0.97
2:B:106:LEU:HD23	4:M:130:GLU:HB2	1.47	0.97
2:B:523:PHE:HE2	2:B:580:TYR:CD2	1.80	0.97
1:A:556:VAL:HG22	1:A:603:VAL:CG1	1.94	0.97
2:B:224:GLU:C	2:B:259:TYR:OH	2.07	0.97
4:M:353:VAL:O	4:M:401:LYS:HA	1.65	0.97
2:B:9:ALA:O	4:M:14:LEU:CB	2.13	0.96
2:B:106:LEU:CD2	2:B:144:ASP:CB	2.43	0.96
2:B:261:PRO:HB2	2:B:290:SER:HB3	1.46	0.96
2:B:328:LEU:CB	2:B:333:GLN:HE22	1.78	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:422:ALA:HB3	2:B:424:PHE:CD2	2.00	0.96
1:A:225:LEU:CB	1:A:233:PHE:CZ	2.47	0.96
2:B:109:ALA:HB2	2:B:145:MET:SD	2.05	0.96
2:B:230:PHE:O	2:B:231:ARG:C	1.96	0.96
1:A:309:PHE:CZ	1:A:348:PHE:CZ	2.53	0.96
2:B:227:HIS:O	2:B:298:ASP:OD2	1.82	0.96
2:B:318:ILE:HD13	2:B:346:THR:CB	1.93	0.96
2:B:347:VAL:HG11	2:B:381:PHE:HE1	1.30	0.96
4:M:244:VAL:HG13	4:M:472:TYR:CE2	2.00	0.96
4:M:323:MET:HB3	4:M:340:LEU:HD11	1.46	0.96
4:M:362:PHE:O	4:M:363:ASN:C	2.06	0.96
2:B:475:ILE:HG23	2:B:489:ILE:CG2	1.96	0.96
1:A:263:LEU:O	1:A:266:VAL:N	1.98	0.96
2:B:34:SER:HB3	2:B:65:ARG:NH1	1.80	0.96
2:B:396:ILE:CD1	2:B:432:ALA:HB2	1.94	0.96
4:M:243:ILE:H	4:M:474:THR:CG2	1.77	0.96
2:B:497:LEU:O	2:B:499:VAL:N	1.98	0.96
2:B:396:ILE:HD13	2:B:432:ALA:CB	1.95	0.96
2:B:523:PHE:CE2	2:B:580:TYR:CG	2.53	0.96
2:B:139:LEU:HD21	2:B:173:VAL:HA	1.45	0.96
2:B:161:LEU:HB3	2:B:173:VAL:HG22	1.46	0.96
2:B:556:LEU:HB3	2:B:588:ILE:HD11	1.45	0.96
4:M:41:LEU:HD12	4:M:52:ASP:N	1.80	0.96
4:M:220:GLU:OE2	4:M:439:TYR:CD2	2.17	0.96
2:B:260:LEU:HA	2:B:293:VAL:HG21	1.48	0.96
2:B:278:PRO:HD3	2:B:289:PRO:O	1.64	0.96
4:M:379:LEU:HA	4:M:412:ARG:O	1.66	0.96
2:B:139:LEU:HD23	2:B:173:VAL:HA	1.44	0.96
2:B:144:ASP:OD2	4:M:131:ALA:HA	1.66	0.96
2:B:556:LEU:CD2	2:B:588:ILE:CG1	2.44	0.96
1:A:215:VAL:HG11	1:A:243:ILE:CG2	1.93	0.95
2:B:16:LYS:NZ	4:M:111:ILE:HD12	1.81	0.95
2:B:223:LEU:HD13	2:B:259:TYR:H	1.14	0.95
3:S:35:VAL:HB	3:S:77:TYR:CE2	2.00	0.95
4:M:265:ASN:HB3	4:M:309:GLN:HG3	1.46	0.95
1:A:68:THR:CB	3:S:166:LYS:HB3	1.96	0.95
2:B:155:LEU:CD2	2:B:192:LEU:HD12	1.95	0.95
2:B:297:PRO:O	2:B:301:LEU:CG	2.13	0.95
2:B:389:ILE:HG12	2:B:425:PRO:HG2	0.97	0.95
4:M:350:VAL:HG22	4:M:442:GLN:CG	1.96	0.95
2:B:236:ILE:HG22	2:B:240:LEU:HD11	0.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:256:CYS:CB	2:B:328:LEU:HD22	1.88	0.95
2:B:523:PHE:CZ	2:B:580:TYR:CZ	2.55	0.95
1:A:323:CYS:SG	1:A:334:SER:CB	2.55	0.95
1:A:424:TYR:CD1	3:S:63:ASN:ND2	2.34	0.95
1:A:563:CYS:HB3	1:A:621:LEU:CD1	1.95	0.95
1:A:638:LEU:HD21	2:B:561:ASP:H	0.82	0.95
3:S:8:PHE:CE2	3:S:84:TYR:HB2	1.99	0.95
4:M:290:PHE:CE2	4:M:297:PHE:CZ	2.53	0.95
4:M:374:TYR:O	4:M:390:ILE:HD12	1.66	0.95
1:A:213:SER:HB2	3:S:142:ILE:CA	1.96	0.95
1:A:605:GLU:OE1	1:A:636:TYR:OH	1.83	0.95
2:B:208:ILE:HD13	2:B:236:ILE:HG21	1.47	0.95
2:B:560:ILE:HG23	2:B:564:LYS:HB2	1.47	0.95
4:M:41:LEU:HD13	4:M:52:ASP:H	1.27	0.95
2:B:72:SER:C	4:M:19:LEU:HB2	1.92	0.95
2:B:371:GLN:HB3	2:B:401:THR:O	1.67	0.95
1:A:215:VAL:HG13	1:A:243:ILE:HG21	1.44	0.95
1:A:239:LEU:O	1:A:242:GLU:O	1.84	0.95
1:A:258:LYS:HZ1	3:S:93:GLU:HA	1.17	0.95
1:A:450:TYR:OH	1:A:476:GLN:HG2	1.65	0.95
3:S:130:SER:OG	3:S:156:LEU:HD12	1.66	0.95
4:M:432:THR:OG1	4:M:480:GLN:HG2	1.63	0.95
1:A:581:LEU:HD23	1:A:607:LEU:HD11	1.46	0.95
2:B:109:ALA:O	2:B:110:GLU:C	1.99	0.95
1:A:558:VAL:CG1	1:A:562:TRP:CE2	2.49	0.95
2:B:162:VAL:HG21	2:B:195:ILE:HG23	1.48	0.95
2:B:184:GLY:O	2:B:188:TYR:HD2	1.47	0.95
2:B:556:LEU:HD23	2:B:588:ILE:HG13	1.46	0.95
4:M:219:LEU:HD22	4:M:473:LYS:CA	1.97	0.95
2:B:213:LEU:HD21	4:M:136:VAL:HB	1.49	0.94
2:B:216:LYS:CG	2:B:251:LEU:HD13	1.97	0.94
2:B:234:CYS:O	2:B:237:ILE:CG2	2.14	0.94
2:B:387:ASP:CB	2:B:388:PRO:HD2	1.97	0.94
2:B:566:ALA:HA	2:B:574:ASN:HB3	1.48	0.94
4:M:51:LEU:CB	4:M:68:VAL:HG21	1.97	0.94
4:M:347:PHE:CG	4:M:350:VAL:HB	2.01	0.94
4:M:347:PHE:O	4:M:348:LYS:C	2.09	0.94
4:M:436:GLU:HA	4:M:479:PHE:CE1	2.00	0.94
1:A:179:LYS:HE2	3:S:137:GLN:C	1.92	0.94
1:A:295:VAL:HG22	1:A:315:CYS:HB3	1.49	0.94
2:B:513:TRP:HA	2:B:551:LEU:CD2	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:519:ALA:O	2:B:523:PHE:CB	2.15	0.94
1:A:225:LEU:CB	1:A:233:PHE:CE2	2.50	0.94
2:B:9:ALA:HB1	4:M:14:LEU:HB2	0.94	0.94
2:B:144:ASP:OD2	4:M:131:ALA:CA	2.14	0.94
2:B:337:THR:N	2:B:373:LEU:CD2	2.30	0.94
2:B:348:THR:OG1	4:M:305:ASP:OD2	1.84	0.94
3:S:17:VAL:CG2	3:S:19:PHE:CZ	2.49	0.94
4:M:20:LEU:CD2	4:M:129:VAL:HG21	1.97	0.94
4:M:44:ASP:O	4:M:47:SER:N	2.00	0.94
4:M:222:PHE:O	4:M:479:PHE:HE1	1.48	0.94
4:M:245:ASP:CA	4:M:472:TYR:CD1	2.50	0.94
2:B:86:VAL:HG12	2:B:101:ILE:HG23	1.48	0.94
2:B:476:ARG:CA	2:B:514:LEU:HD13	1.95	0.94
2:B:25:VAL:HG21	2:B:32:GLU:H	1.31	0.94
2:B:56:SER:O	2:B:57:ARG:C	2.00	0.94
2:B:335:LYS:CA	2:B:370:ASP:OD2	2.16	0.94
2:B:405:GLU:O	2:B:446:TRP:NE1	2.01	0.94
3:S:46:PHE:O	3:S:48:SER:N	2.00	0.94
1:A:405:THR:CA	2:B:7:ARG:NH2	2.13	0.94
1:A:503:ASN:CG	4:M:60:LEU:N	2.25	0.94
1:A:179:LYS:NZ	3:S:142:ILE:N	2.16	0.94
1:A:225:LEU:HD13	1:A:233:PHE:CZ	2.01	0.94
1:A:257:LEU:HD22	1:A:278:ILE:CG2	1.97	0.94
1:A:462:GLN:O	4:M:58:ARG:CA	2.15	0.94
2:B:70:MET:CE	2:B:107:ARG:CB	2.46	0.94
2:B:325:LEU:CD1	2:B:339:PHE:HB3	1.96	0.94
4:M:224:VAL:N	4:M:479:PHE:CG	2.35	0.94
4:M:276:VAL:HG22	4:M:290:PHE:HD1	1.30	0.94
1:A:121:LEU:HD21	1:A:158:LEU:HB2	1.49	0.94
2:B:136:CYS:HB3	2:B:172:GLU:CG	1.97	0.94
2:B:200:MET:HG2	2:B:232:ARG:HB3	1.49	0.94
2:B:231:ARG:NH2	2:B:279:LEU:CD2	2.30	0.94
4:M:258:VAL:HG13	4:M:449:VAL:HG13	1.49	0.94
1:A:77:LEU:O	1:A:80:TYR:O	1.86	0.94
2:B:479:VAL:CG1	2:B:486:HIS:CD2	2.50	0.94
2:B:563:PHE:O	2:B:566:ALA:CB	2.15	0.94
1:A:581:LEU:HD11	1:A:585:PHE:CZ	2.03	0.93
2:B:16:LYS:HZ3	4:M:111:ILE:CG1	1.82	0.93
2:B:174:ALA:O	2:B:175:LEU:C	2.02	0.93
2:B:178:ILE:CG2	2:B:217:GLU:CB	2.44	0.93
2:B:181:TYR:CE1	2:B:222:HIS:HD2	1.75	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:226:LEU:HD23	2:B:255:TYR:HD1	1.17	0.93
2:B:256:CYS:SG	2:B:299:LEU:CD2	2.57	0.93
4:M:435:LEU:O	4:M:479:PHE:CG	2.20	0.93
2:B:106:LEU:HD22	2:B:144:ASP:CB	1.98	0.93
2:B:237:ILE:HG23	2:B:238:LYS:N	1.80	0.93
2:B:325:LEU:HB3	2:B:334:MET:SD	2.08	0.93
3:S:8:PHE:CB	3:S:36:TYR:HE1	1.81	0.93
4:M:95:THR:HG21	4:M:137:SER:O	1.68	0.93
4:M:262:THR:HG22	4:M:265:ASN:H	1.32	0.93
4:M:309:GLN:NE2	4:M:445:SER:O	2.00	0.93
2:B:337:THR:CG2	2:B:373:LEU:CD1	2.45	0.93
2:B:341:GLU:CA	2:B:377:TYR:CE1	2.36	0.93
2:B:397:GLN:NE2	2:B:431:MET:CE	2.30	0.93
2:B:400:SER:CB	2:B:435:SER:CA	2.47	0.93
3:S:8:PHE:CB	3:S:36:TYR:CE1	2.52	0.93
4:M:220:GLU:CG	4:M:439:TYR:HD2	1.78	0.93
4:M:245:ASP:O	4:M:472:TYR:CZ	2.22	0.93
2:B:313:SER:CB	4:M:269:ILE:O	2.16	0.93
2:B:568:VAL:O	2:B:571:SER:HB2	1.66	0.93
1:A:220:SER:O	1:A:223:CYS:HB3	1.69	0.93
2:B:179:LYS:NZ	4:M:131:ALA:HA	1.82	0.93
2:B:259:TYR:HD1	2:B:261:PRO:CG	1.82	0.93
2:B:337:THR:HG23	2:B:373:LEU:HD12	1.49	0.93
2:B:374:PHE:O	2:B:402:LEU:HD22	1.68	0.93
1:A:179:LYS:CE	3:S:140:MET:HB3	1.98	0.93
1:A:225:LEU:CD1	1:A:233:PHE:HZ	1.80	0.93
2:B:152:PRO:HA	2:B:188:TYR:CE1	2.03	0.93
2:B:310:ILE:HG22	2:B:342:ALA:HB1	1.50	0.93
4:M:405:THR:O	4:M:407:THR:HG23	1.68	0.93
2:B:231:ARG:HH22	2:B:279:LEU:HD21	1.10	0.93
4:M:241:HIS:O	4:M:474:THR:HB	1.68	0.93
2:B:340:ILE:HG12	2:B:373:LEU:CD2	1.98	0.93
1:A:88:ASN:O	1:A:89:PHE:C	2.04	0.93
1:A:429:VAL:HB	1:A:469:LEU:CD1	1.98	0.93
2:B:161:LEU:HB3	2:B:173:VAL:CG2	1.98	0.93
2:B:181:TYR:CD2	2:B:218:CYS:O	2.22	0.93
2:B:219:TYR:CZ	2:B:226:LEU:HA	1.98	0.93
2:B:243:TRP:HH2	4:M:98:ARG:CD	1.59	0.93
2:B:325:LEU:HD13	2:B:339:PHE:CG	2.04	0.93
2:B:5:ILE:HD11	4:M:39:PRO:CG	1.98	0.93
2:B:310:ILE:HG23	2:B:318:ILE:HG23	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:415:LEU:HD12	2:B:436:LEU:HD21	1.49	0.93
4:M:104:PHE:CZ	4:M:117:ASN:HB3	2.04	0.93
2:B:1:MET:HG2	4:M:39:PRO:CD	1.98	0.92
2:B:73:ASP:HA	4:M:19:LEU:HD21	1.52	0.92
2:B:397:GLN:HE21	2:B:431:MET:HE3	0.97	0.92
1:A:213:SER:HB2	3:S:142:ILE:HA	1.48	0.92
1:A:391:LEU:O	1:A:392:MET:C	1.88	0.92
1:A:462:GLN:OE1	4:M:58:ARG:HB3	1.69	0.92
1:A:506:LYS:HZ3	4:M:82:LYS:CD	1.79	0.92
2:B:513:TRP:HA	2:B:551:LEU:HD22	1.49	0.92
2:B:518:ILE:O	2:B:518:ILE:HD12	1.69	0.92
4:M:74:TYR:HB3	4:M:114:ILE:HD11	1.51	0.92
4:M:218:LEU:CA	4:M:472:TYR:CE2	2.52	0.92
2:B:220:ALA:HA	2:B:258:GLN:HG3	1.50	0.92
2:B:337:THR:C	2:B:373:LEU:HD11	1.95	0.92
1:A:570:LYS:HD3	1:A:618:THR:HG22	1.51	0.92
2:B:1:MET:CG	4:M:39:PRO:HD3	1.98	0.92
2:B:252:LEU:CB	2:B:302:PHE:CE1	2.51	0.92
2:B:336:ASN:O	2:B:373:LEU:HD21	1.69	0.92
2:B:433:VAL:HG12	2:B:474:VAL:HG23	1.48	0.92
2:B:472:VAL:CG1	2:B:510:GLY:HA3	1.99	0.92
1:A:100:LEU:O	1:A:101:GLN:C	1.98	0.92
2:B:16:LYS:HZ3	4:M:111:ILE:HG13	1.35	0.92
2:B:181:TYR:CE2	2:B:218:CYS:O	2.22	0.92
4:M:222:PHE:CD1	4:M:240:ILE:CG2	2.53	0.92
1:A:381:GLU:O	1:A:382:ASP:C	1.91	0.92
2:B:136:CYS:SG	2:B:169:VAL:CA	2.58	0.92
2:B:374:PHE:CE2	2:B:398:ILE:CG2	2.52	0.92
4:M:9:ASP:CB	4:M:111:ILE:CG2	2.47	0.92
1:A:464:ILE:O	1:A:465:SER:C	1.92	0.92
2:B:178:ILE:HG21	2:B:217:GLU:HB2	1.49	0.92
2:B:565:GLN:OE1	2:B:581:TYR:OH	1.87	0.92
4:M:219:LEU:HB3	4:M:472:TYR:C	1.94	0.92
1:A:84:MET:O	1:A:85:ALA:C	2.05	0.92
1:A:103:LYS:HB3	1:A:107:TYR:CE2	2.03	0.92
1:A:254:ILE:CG2	3:S:94:SER:OG	2.18	0.92
2:B:219:TYR:CD2	2:B:226:LEU:CG	2.53	0.92
1:A:462:GLN:C	4:M:58:ARG:CA	2.43	0.92
2:B:119:SER:O	2:B:123:LEU:HG	1.70	0.92
2:B:336:ASN:HB3	2:B:339:PHE:CE2	2.04	0.92
1:A:462:GLN:C	4:M:58:ARG:CB	2.41	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:556:VAL:CG2	1:A:603:VAL:CG2	2.44	0.92
2:B:337:THR:HG23	2:B:373:LEU:CD1	2.00	0.92
4:M:219:LEU:CB	4:M:472:TYR:C	2.41	0.92
4:M:344:ILE:HG23	4:M:347:PHE:HB2	1.50	0.92
2:B:107:ARG:HH12	4:M:20:LEU:HB3	1.35	0.91
4:M:351:SER:HB2	4:M:440:ILE:O	1.68	0.91
2:B:5:ILE:HG21	4:M:42:LEU:HD11	0.94	0.91
2:B:237:ILE:CG2	2:B:238:LYS:N	2.34	0.91
2:B:297:PRO:O	2:B:301:LEU:HD12	1.70	0.91
3:S:130:SER:OG	3:S:156:LEU:CD1	2.16	0.91
1:A:309:PHE:CE1	1:A:348:PHE:CE2	2.58	0.91
2:B:72:SER:OG	4:M:17:GLN:OE1	1.87	0.91
2:B:578:PRO:CD	2:B:581:TYR:HE2	1.57	0.91
2:B:124:GLN:HA	2:B:127:LEU:HD12	1.51	0.91
2:B:178:ILE:HD13	2:B:218:CYS:HB2	1.50	0.91
2:B:256:CYS:CB	2:B:328:LEU:HD23	1.94	0.91
4:M:9:ASP:HB2	4:M:111:ILE:HG21	1.50	0.91
2:B:297:PRO:O	2:B:301:LEU:HG	1.71	0.91
2:B:329:ALA:HB2	2:B:334:MET:HG2	1.51	0.91
4:M:344:ILE:HG21	4:M:347:PHE:HB3	1.50	0.91
1:A:114:PHE:CE1	1:A:153:ILE:HA	2.05	0.91
2:B:12:LEU:HD12	4:M:13:LYS:CA	1.96	0.91
2:B:80:GLN:N	2:B:108:PHE:HE2	1.68	0.91
2:B:219:TYR:CG	2:B:226:LEU:HD22	2.05	0.91
2:B:523:PHE:HZ	2:B:580:TYR:CZ	1.88	0.91
2:B:578:PRO:HD3	2:B:581:TYR:HE2	1.33	0.91
4:M:479:PHE:H	4:M:479:PHE:HD1	1.18	0.91
3:S:4:ALA:HA	3:S:18:LYS:O	1.69	0.91
4:M:44:ASP:HB2	4:M:50:TYR:HD2	1.29	0.91
4:M:113:LYS:O	4:M:116:ASN:HB2	1.70	0.91
1:A:575:LYS:NZ	1:A:615:GLU:OE1	2.04	0.91
2:B:16:LYS:HB3	4:M:115:VAL:CG1	2.01	0.91
2:B:151:ALA:CB	2:B:188:TYR:CE2	2.54	0.91
3:S:73:ILE:CG2	3:S:88:ILE:CG2	2.49	0.91
1:A:556:VAL:HG21	1:A:603:VAL:HG22	1.53	0.91
2:B:533:LEU:O	2:B:536:ASN:N	2.04	0.91
2:B:223:LEU:HD11	2:B:258:GLN:HB3	0.91	0.91
2:B:560:ILE:HA	2:B:563:PHE:HB2	1.53	0.91
2:B:578:PRO:HD2	2:B:581:TYR:CZ	2.05	0.91
3:S:135:ILE:O	3:S:141:VAL:CA	2.18	0.91
4:M:306:LEU:CD1	4:M:317:MET:CE	2.49	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:LEU:HD22	1:A:278:ILE:HG22	1.53	0.90
2:B:12:LEU:CB	4:M:13:LYS:CG	2.40	0.90
2:B:143:SER:C	2:B:179:LYS:CD	2.44	0.90
2:B:437:SER:HB2	2:B:474:VAL:CB	2.00	0.90
2:B:513:TRP:N	2:B:551:LEU:HD13	1.86	0.90
4:M:243:ILE:O	4:M:472:TYR:HB2	1.70	0.90
1:A:578:LEU:HD23	1:A:607:LEU:HD22	1.54	0.90
2:B:25:VAL:HG23	2:B:32:GLU:HG3	1.52	0.90
2:B:106:LEU:CD2	2:B:144:ASP:OD2	2.19	0.90
2:B:259:TYR:O	2:B:260:LEU:C	2.03	0.90
3:S:53:THR:OG1	3:S:68:VAL:CA	2.18	0.90
1:A:283:GLU:OE1	1:A:318:ARG:NH2	2.03	0.90
1:A:503:ASN:HD21	4:M:60:LEU:CD2	1.85	0.90
1:A:621:LEU:O	1:A:622:PRO:C	1.96	0.90
2:B:387:ASP:HB3	2:B:388:PRO:HD2	1.52	0.90
2:B:398:ILE:O	2:B:401:THR:N	2.03	0.90
2:B:556:LEU:CD2	2:B:588:ILE:HG13	1.99	0.90
4:M:95:THR:CB	4:M:137:SER:O	2.19	0.90
4:M:293:PRO:HD2	4:M:293:PRO:O	1.68	0.90
4:M:347:PHE:CD1	4:M:350:VAL:CB	2.53	0.90
2:B:139:LEU:CG	2:B:176:ALA:HB2	1.99	0.90
2:B:396:ILE:HD13	2:B:432:ALA:CA	2.00	0.90
4:M:100:LEU:CD2	4:M:121:ILE:HG12	2.00	0.90
4:M:306:LEU:O	4:M:307:SER:C	2.03	0.90
1:A:121:LEU:HD12	1:A:153:ILE:CG2	2.01	0.90
2:B:38:TYR:CZ	2:B:43:ASN:O	2.25	0.90
2:B:436:LEU:HD12	2:B:454:LEU:CD2	2.01	0.90
1:A:316:LEU:CD1	1:A:348:PHE:CD2	2.54	0.90
1:A:424:TYR:CE1	3:S:63:ASN:ND2	2.40	0.90
2:B:155:LEU:HD23	2:B:192:LEU:HD11	0.91	0.90
2:B:297:PRO:O	2:B:301:LEU:CD1	2.19	0.90
2:B:562:ASN:O	2:B:581:TYR:HA	1.72	0.90
4:M:317:MET:HB2	4:M:322:LEU:H	1.33	0.90
1:A:213:SER:HB2	3:S:142:ILE:CB	2.02	0.90
2:B:29:LYS:N	2:B:30:LEU:CA	2.34	0.90
2:B:75:ASP:CG	4:M:24:ALA:HB3	1.95	0.90
4:M:16:PHE:HE2	4:M:125:PHE:CE2	1.90	0.90
4:M:244:VAL:CA	4:M:472:TYR:CE2	2.53	0.90
2:B:80:GLN:CG	2:B:108:PHE:HZ	1.85	0.90
2:B:278:PRO:HD3	2:B:292:GLU:HB2	1.52	0.90
2:B:279:LEU:H	2:B:288:TYR:HB2	1.12	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:56:VAL:H	4:M:64:LYS:HG3	1.36	0.90
4:M:242:GLY:HA2	4:M:474:THR:HG21	1.52	0.90
1:A:276:PRO:O	1:A:278:ILE:O	1.88	0.90
2:B:11:ALA:HA	2:B:40:GLN:HE21	1.32	0.90
2:B:231:ARG:CG	2:B:298:ASP:OD1	2.19	0.90
2:B:278:PRO:HD2	2:B:292:GLU:HG3	1.52	0.90
2:B:348:THR:HG21	2:B:380:LYS:CB	2.01	0.90
2:B:567:GLN:O	2:B:569:THR:CA	2.18	0.90
4:M:262:THR:C	4:M:264:GLY:H	1.80	0.90
1:A:349:ILE:HG21	1:A:378:ILE:HG22	1.54	0.89
2:B:25:VAL:HG22	2:B:28:SER:OG	1.70	0.89
2:B:215:TYR:HD2	2:B:233:TYR:HE2	0.91	0.89
2:B:436:LEU:CD1	2:B:454:LEU:HD21	2.02	0.89
2:B:9:ALA:C	4:M:14:LEU:CB	2.44	0.89
2:B:20:ARG:HH12	4:M:118:TYR:CA	1.84	0.89
2:B:300:ASP:OD2	2:B:304:GLN:NE2	2.06	0.89
3:S:53:THR:CB	3:S:68:VAL:C	2.44	0.89
4:M:222:PHE:CE1	4:M:240:ILE:CG2	2.54	0.89
1:A:536:MET:O	1:A:537:THR:C	1.89	0.89
2:B:245:GLN:CD	2:B:309:LEU:HD12	1.96	0.89
2:B:403:ILE:HD12	2:B:439:CYS:O	1.68	0.89
2:B:522:GLU:O	2:B:522:GLU:HG2	1.70	0.89
2:B:597:TYR:O	2:B:601:TYR:CD2	2.25	0.89
3:S:131:VAL:CG2	3:S:153:VAL:HG22	2.02	0.89
1:A:609:LEU:HG	1:A:628:VAL:CG1	2.02	0.89
2:B:347:VAL:HG21	2:B:381:PHE:CE1	2.08	0.89
3:S:16:LEU:HD13	3:S:125:TRP:HE1	1.36	0.89
4:M:241:HIS:O	4:M:474:THR:OG1	1.90	0.89
4:M:253:ASN:HA	4:M:292:PRO:HG2	1.54	0.89
2:B:243:TRP:HZ3	4:M:98:ARG:CD	1.80	0.89
4:M:215:TYR:HB2	4:M:467:TYR:C	1.95	0.89
4:M:240:ILE:HG21	4:M:444:ALA:HA	1.54	0.89
2:B:216:LYS:CG	2:B:251:LEU:CD1	2.51	0.89
2:B:340:ILE:HG21	2:B:374:PHE:HA	1.55	0.89
2:B:397:GLN:HE21	2:B:431:MET:CE	1.83	0.89
4:M:48:ASP:HA	4:M:70:ASN:HD22	1.37	0.89
1:A:204:VAL:O	1:A:205:SER:C	2.09	0.89
2:B:16:LYS:HZ1	4:M:111:ILE:HD12	1.34	0.89
2:B:38:TYR:CE2	2:B:43:ASN:CA	2.55	0.89
2:B:193:LEU:HD21	2:B:225:LEU:HB2	1.53	0.89
2:B:345:ARG:O	2:B:349:MET:HG3	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:396:ILE:HG21	2:B:432:ALA:HA	0.90	0.89
2:B:400:SER:HA	2:B:439:CYS:SG	2.13	0.89
4:M:247:ARG:H	4:M:470:ALA:HB2	1.35	0.89
2:B:2:VAL:HG11	4:M:54:SER:HB3	0.91	0.89
2:B:17:VAL:O	2:B:21:GLU:HG2	1.73	0.89
1:A:638:LEU:CD1	2:B:557:SER:OG	2.21	0.89
2:B:232:ARG:HG3	2:B:236:ILE:HD11	1.55	0.89
2:B:252:LEU:HB3	2:B:302:PHE:CG	2.06	0.89
2:B:378:THR:O	2:B:381:PHE:N	2.05	0.89
3:S:16:LEU:HB2	3:S:125:TRP:HE1	1.32	0.89
4:M:9:ASP:CB	4:M:111:ILE:HG22	2.03	0.89
4:M:121:ILE:O	4:M:125:PHE:CE1	2.26	0.89
1:A:410:TYR:HD1	3:S:43:ASN:ND2	1.63	0.89
2:B:11:ALA:N	2:B:40:GLN:HE22	1.71	0.89
2:B:278:PRO:CA	2:B:288:TYR:CB	2.51	0.89
2:B:294:VAL:HG23	2:B:333:GLN:HG2	1.54	0.89
3:S:5:VAL:O	3:S:17:VAL:HA	1.73	0.89
4:M:9:ASP:HB2	4:M:111:ILE:HG22	1.53	0.89
4:M:44:ASP:HB3	4:M:50:TYR:CE2	2.07	0.89
4:M:240:ILE:CG2	4:M:444:ALA:HA	2.02	0.89
4:M:260:LEU:CD2	4:M:449:VAL:HG22	2.02	0.89
4:M:437:TYR:CD1	4:M:479:PHE:CZ	2.61	0.89
2:B:13:ASP:O	2:B:17:VAL:CG2	2.20	0.88
2:B:151:ALA:HA	2:B:180:LEU:HD11	1.55	0.88
2:B:276:SER:O	2:B:295:ASN:ND2	2.06	0.88
4:M:350:VAL:HG13	4:M:442:GLN:CG	2.03	0.88
2:B:310:ILE:HD11	2:B:321:CYS:CB	2.03	0.88
2:B:437:SER:HB2	2:B:474:VAL:HG13	0.90	0.88
2:B:486:HIS:ND1	2:B:518:ILE:HD13	1.88	0.88
4:M:350:VAL:CG1	4:M:442:GLN:HB3	2.02	0.88
1:A:274:LEU:O	1:A:275:LEU:C	2.13	0.88
1:A:503:ASN:HD21	4:M:60:LEU:HG	1.39	0.88
2:B:2:VAL:HG13	4:M:54:SER:OG	1.73	0.88
2:B:11:ALA:HA	2:B:40:GLN:HE22	1.07	0.88
2:B:162:VAL:HG22	2:B:199:LEU:HD11	1.54	0.88
2:B:375:LEU:HD13	2:B:404:ASN:HD22	1.14	0.88
2:B:568:VAL:CG1	2:B:571:SER:OG	2.21	0.88
2:B:9:ALA:C	4:M:14:LEU:HB3	1.97	0.88
4:M:356:LEU:CD2	4:M:358:ILE:HG13	2.04	0.88
1:A:629:LEU:O	1:A:630:PRO:C	2.01	0.88
2:B:70:MET:CE	2:B:107:ARG:HB3	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:158:VAL:HG13	2:B:173:VAL:HG12	1.53	0.88
2:B:274:PRO:CG	2:B:295:ASN:CB	2.52	0.88
4:M:219:LEU:HB3	4:M:472:TYR:O	1.71	0.88
1:A:266:VAL:O	1:A:267:GLU:CB	2.22	0.88
1:A:585:PHE:CA	1:A:600:SER:OG	2.22	0.88
2:B:14:THR:HG21	2:B:40:GLN:HG2	1.53	0.88
2:B:151:ALA:HB1	2:B:188:TYR:CE2	2.08	0.88
2:B:351:GLU:CB	4:M:476:THR:HB	1.99	0.88
4:M:219:LEU:CD2	4:M:473:LYS:HA	2.01	0.88
2:B:37:TYR:HD2	2:B:38:TYR:CD1	1.92	0.88
2:B:144:ASP:HA	2:B:179:LYS:HD3	1.54	0.88
2:B:367:SER:HB2	2:B:401:THR:HB	1.53	0.88
2:B:433:VAL:CG1	2:B:474:VAL:HG21	2.04	0.88
2:B:457:HIS:HA	2:B:461:HIS:HD2	1.37	0.88
4:M:15:ILE:HG23	4:M:115:VAL:HG23	1.54	0.88
4:M:443:SER:OG	4:M:447:ILE:C	2.17	0.88
1:A:88:ASN:HB3	1:A:120:ILE:HG23	1.56	0.88
1:A:216:SER:HB3	3:S:140:MET:SD	2.13	0.88
1:A:495:ILE:HG23	1:A:515:CYS:SG	2.13	0.88
1:A:638:LEU:CD2	2:B:561:ASP:CG	2.47	0.88
2:B:337:THR:CG2	2:B:373:LEU:HD11	2.02	0.88
3:S:8:PHE:HB3	3:S:36:TYR:CE1	2.08	0.88
4:M:245:ASP:HB3	4:M:472:TYR:CD1	2.09	0.88
2:B:219:TYR:CE2	2:B:226:LEU:CG	2.56	0.88
2:B:280:PRO:HG3	2:B:283:TYR:CD2	2.09	0.88
2:B:367:SER:HB2	2:B:401:THR:CB	2.03	0.88
4:M:272:LEU:HD21	4:M:278:ILE:HB	1.56	0.88
4:M:288:ILE:CD1	4:M:300:LEU:HD22	2.03	0.88
2:B:38:TYR:CZ	2:B:43:ASN:N	2.31	0.88
1:A:381:GLU:HA	1:A:384:LEU:HD23	1.53	0.87
2:B:143:SER:HB3	2:B:176:ALA:HA	1.54	0.87
2:B:178:ILE:HG23	2:B:217:GLU:CB	2.03	0.87
2:B:568:VAL:HG12	2:B:571:SER:CB	2.03	0.87
4:M:221:THR:H	4:M:474:THR:HG1	0.93	0.87
1:A:411:GLU:HG3	3:S:46:PHE:HZ	1.34	0.87
2:B:230:PHE:CD1	2:B:298:ASP:HB3	2.08	0.87
2:B:341:GLU:HG3	2:B:377:TYR:HE1	0.77	0.87
2:B:374:PHE:HE1	2:B:381:PHE:CE2	1.90	0.87
2:B:403:ILE:HD12	2:B:439:CYS:C	1.99	0.87
2:B:136:CYS:CB	2:B:172:GLU:HG3	2.04	0.87
4:M:347:PHE:HE1	4:M:350:VAL:HG11	1.32	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:374:TYR:OH	4:M:394:GLN:C	2.17	0.87
4:M:383:HIS:CG	4:M:403:THR:OG1	2.26	0.87
1:A:503:ASN:CB	4:M:59:ASP:O	2.20	0.87
1:A:595:GLU:OE2	2:B:513:TRP:CH2	2.27	0.87
2:B:279:LEU:HG	2:B:288:TYR:CD2	2.09	0.87
4:M:240:ILE:HG22	4:M:444:ALA:CB	2.04	0.87
1:A:68:THR:H	3:S:166:LYS:HD3	1.40	0.87
2:B:72:SER:C	4:M:17:GLN:HE22	1.82	0.87
2:B:106:LEU:CG	2:B:144:ASP:HB3	2.04	0.87
2:B:214:ALA:O	2:B:217:GLU:N	2.07	0.87
2:B:563:PHE:HD1	2:B:584:SER:HB3	1.39	0.87
3:S:131:VAL:HG22	3:S:153:VAL:HG22	1.57	0.87
2:B:197:LYS:CB	2:B:229:HIS:NE2	2.36	0.87
2:B:237:ILE:CG2	2:B:238:LYS:H	1.86	0.87
2:B:367:SER:CB	2:B:401:THR:OG1	2.22	0.87
4:M:220:GLU:CG	4:M:439:TYR:HB2	2.04	0.87
1:A:488:ARG:O	1:A:491:THR:OG1	1.93	0.87
2:B:181:TYR:HE1	2:B:222:HIS:CD2	1.90	0.87
2:B:253:ILE:HG12	2:B:324:ALA:HA	1.55	0.87
2:B:418:TYR:C	2:B:418:TYR:HD1	1.77	0.87
4:M:92:PHE:HE2	4:M:128:CYS:O	1.58	0.87
1:A:103:LYS:O	1:A:107:TYR:CD2	2.28	0.87
1:A:251:TRP:HE3	3:S:97:ALA:HA	1.16	0.87
1:A:585:PHE:C	1:A:600:SER:HG	1.81	0.87
2:B:553:ALA:HB2	2:B:614:ILE:HD13	1.55	0.87
2:B:569:THR:O	2:B:569:THR:CG2	2.22	0.87
4:M:74:TYR:HB3	4:M:114:ILE:CD1	2.05	0.87
4:M:131:ALA:CB	4:M:131:ALA:C	2.47	0.87
4:M:223:HIS:CA	4:M:479:PHE:CE1	2.57	0.87
1:A:433:ILE:HG23	1:A:476:GLN:HB2	1.57	0.87
4:M:4:SER:O	4:M:78:ALA:HA	1.72	0.87
2:B:22:ALA:HB2	2:B:33:SER:HG	1.38	0.86
2:B:34:SER:OG	2:B:65:ARG:CZ	2.23	0.86
2:B:69:ILE:HG23	2:B:74:ASP:HB3	1.57	0.86
2:B:386:LYS:HE3	4:M:480:GLN:HB2	1.55	0.86
2:B:580:TYR:HB3	2:B:582:ASP:CG	1.99	0.86
2:B:144:ASP:CG	4:M:131:ALA:CA	2.45	0.86
2:B:224:GLU:CG	2:B:259:TYR:OH	2.23	0.86
2:B:479:VAL:HG21	2:B:486:HIS:CD2	2.09	0.86
2:B:523:PHE:HE2	2:B:580:TYR:CG	1.91	0.86
2:B:556:LEU:CA	2:B:588:ILE:CD1	2.48	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:8:PHE:CE2	3:S:84:TYR:HB3	2.08	0.86
1:A:506:LYS:NZ	4:M:82:LYS:HD3	1.88	0.86
2:B:158:VAL:CG1	2:B:177:ILE:HG12	1.99	0.86
2:B:278:PRO:HA	2:B:288:TYR:HB3	1.55	0.86
1:A:66:SER:N	3:S:166:LYS:HE2	1.89	0.86
2:B:72:SER:O	2:B:73:ASP:HB2	1.75	0.86
2:B:107:ARG:HH12	4:M:20:LEU:CB	1.88	0.86
2:B:344:VAL:HG11	2:B:377:TYR:CB	2.05	0.86
2:B:436:LEU:HD12	2:B:454:LEU:HD21	1.57	0.86
4:M:222:PHE:CE1	4:M:240:ILE:HG23	2.10	0.86
1:A:288:THR:HG23	3:S:96:LEU:CD2	2.05	0.86
2:B:136:CYS:C	2:B:172:GLU:HG3	2.00	0.86
2:B:252:LEU:C	2:B:302:PHE:CE2	2.53	0.86
2:B:261:PRO:HD2	2:B:293:VAL:HG23	1.55	0.86
4:M:41:LEU:HD13	4:M:52:ASP:N	1.85	0.86
4:M:74:TYR:CB	4:M:114:ILE:CD1	2.52	0.86
4:M:105:ASP:O	4:M:106:LYS:HB3	1.74	0.86
1:A:114:PHE:CD2	1:A:153:ILE:HG12	2.10	0.86
1:A:408:ILE:HG22	3:S:64:ASN:HB3	1.56	0.86
2:B:260:LEU:HD22	2:B:291:TYR:OH	1.75	0.86
2:B:274:PRO:CG	2:B:295:ASN:HA	2.05	0.86
4:M:215:TYR:CG	4:M:468:LYS:HA	2.11	0.86
4:M:223:HIS:CA	4:M:479:PHE:CD1	2.55	0.86
1:A:182:ILE:HG22	1:A:221:VAL:HG21	1.58	0.86
2:B:189:HIS:NE2	2:B:222:HIS:HB3	1.91	0.86
2:B:239:GLN:O	4:M:279:ASN:HA	1.75	0.86
2:B:310:ILE:CD1	2:B:321:CYS:HB2	2.05	0.86
2:B:418:TYR:CD1	2:B:424:PHE:CE2	2.64	0.86
2:B:424:PHE:CD1	2:B:428:VAL:HG11	2.10	0.86
1:A:373:GLU:HG3	1:A:427:LYS:HE2	1.58	0.86
2:B:360:LEU:HB3	2:B:394:TRP:HB3	1.58	0.86
2:B:472:VAL:HG11	2:B:510:GLY:HA3	1.55	0.86
2:B:537:PHE:CE2	2:B:545:ARG:HB3	2.11	0.86
2:B:599:ALA:O	2:B:601:TYR:N	2.09	0.86
4:M:96:ILE:HG21	4:M:125:PHE:CE1	2.09	0.86
4:M:215:TYR:CD1	4:M:467:TYR:O	2.28	0.86
2:B:162:VAL:CG2	2:B:199:LEU:HD11	2.05	0.86
4:M:290:PHE:CZ	4:M:293:PRO:HD3	2.10	0.86
2:B:559:ASP:O	2:B:563:PHE:N	2.09	0.85
4:M:15:ILE:HG23	4:M:115:VAL:HG22	1.57	0.85
4:M:245:ASP:N	4:M:472:TYR:CG	2.29	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:595:GLU:OE2	2:B:513:TRP:CD2	2.29	0.85
2:B:219:TYR:CD2	2:B:226:LEU:CB	2.53	0.85
2:B:290:SER:O	2:B:291:TYR:C	1.88	0.85
2:B:344:VAL:HG13	2:B:381:PHE:HE2	1.32	0.85
2:B:596:LEU:HD12	2:B:611:ALA:HB1	1.58	0.85
2:B:212:VAL:CG2	2:B:248:LEU:HD21	2.05	0.85
1:A:225:LEU:HB3	1:A:233:PHE:CZ	2.11	0.85
1:A:411:GLU:CG	3:S:46:PHE:CZ	2.58	0.85
1:A:506:LYS:HZ3	4:M:82:LYS:HD3	1.38	0.85
2:B:227:HIS:CA	2:B:298:ASP:OD2	2.24	0.85
2:B:256:CYS:SG	2:B:328:LEU:HD21	2.15	0.85
2:B:337:THR:CA	2:B:373:LEU:CD2	2.55	0.85
2:B:366:LEU:O	2:B:367:SER:C	2.02	0.85
2:B:517:GLU:OE2	2:B:554:LYS:NZ	2.09	0.85
4:M:290:PHE:HB2	4:M:299:LEU:CD1	2.05	0.85
2:B:343:LEU:CD2	2:B:366:LEU:HD12	2.06	0.85
4:M:347:PHE:CE1	4:M:350:VAL:CB	2.60	0.85
4:M:428:VAL:O	4:M:429:ASP:C	2.17	0.85
2:B:5:ILE:HD11	4:M:39:PRO:CD	2.07	0.85
2:B:5:ILE:HD11	4:M:39:PRO:N	1.90	0.85
2:B:14:THR:CG2	2:B:36:THR:HG23	1.94	0.85
2:B:70:MET:SD	2:B:107:ARG:HB3	2.17	0.85
2:B:293:VAL:CA	2:B:299:LEU:HG	2.06	0.85
2:B:433:VAL:CG2	2:B:471:TYR:CD2	2.58	0.85
2:B:479:VAL:HG13	2:B:486:HIS:CD2	2.10	0.85
3:S:135:ILE:HG23	3:S:141:VAL:HG13	1.58	0.85
4:M:215:TYR:CD1	4:M:468:LYS:HA	2.11	0.85
2:B:80:GLN:HG3	2:B:108:PHE:HZ	1.41	0.85
2:B:337:THR:CA	2:B:373:LEU:HD21	2.07	0.85
3:S:80:TYR:O	3:S:81:ALA:C	2.14	0.85
4:M:212:ASN:HA	4:M:249:TYR:O	1.75	0.85
2:B:50:LEU:HD23	2:B:62:ALA:HA	1.56	0.85
2:B:181:TYR:HE1	2:B:185:LYS:HG3	1.37	0.85
2:B:216:LYS:HG3	2:B:251:LEU:HD12	1.58	0.85
2:B:322:CYS:SG	2:B:362:ALA:HB1	2.16	0.85
1:A:102:GLN:NE2	3:S:166:LYS:NZ	2.25	0.85
1:A:309:PHE:CE1	1:A:348:PHE:CZ	2.64	0.85
1:A:585:PHE:CE2	1:A:603:VAL:HG12	2.11	0.85
2:B:73:ASP:CA	4:M:19:LEU:HD23	2.00	0.85
2:B:261:PRO:CD	2:B:293:VAL:CG2	2.53	0.85
2:B:278:PRO:HA	2:B:288:TYR:CA	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:351:GLU:CB	4:M:476:THR:CG2	2.55	0.85
4:M:215:TYR:HD1	4:M:467:TYR:O	1.59	0.85
4:M:222:PHE:CD2	4:M:439:TYR:HE2	1.95	0.85
1:A:411:GLU:CG	3:S:46:PHE:HZ	1.89	0.85
1:A:601:VAL:O	1:A:602:GLU:O	1.94	0.85
2:B:34:SER:CB	2:B:65:ARG:NH1	2.40	0.85
2:B:215:TYR:HD1	2:B:219:TYR:CE2	1.93	0.85
1:A:183:THR:O	1:A:186:PHE:HB3	1.77	0.84
1:A:244:LEU:HD11	1:A:281:LEU:CD1	2.07	0.84
1:A:410:TYR:HE1	3:S:43:ASN:ND2	1.71	0.84
1:A:503:ASN:HD21	4:M:60:LEU:CG	1.90	0.84
2:B:106:LEU:HD13	2:B:144:ASP:CA	2.06	0.84
2:B:219:TYR:CD2	2:B:226:LEU:CD1	2.53	0.84
2:B:429:VAL:HG12	2:B:467:VAL:HG13	1.57	0.84
2:B:599:ALA:C	2:B:601:TYR:N	2.31	0.84
4:M:282:VAL:N	4:M:282:VAL:C	2.35	0.84
1:A:536:MET:HG2	1:A:551:LEU:HD11	1.58	0.84
1:A:581:LEU:HD23	1:A:607:LEU:HD21	1.58	0.84
4:M:240:ILE:HG22	4:M:444:ALA:HB1	1.57	0.84
4:M:376:ILE:CG2	4:M:379:LEU:CD1	2.54	0.84
2:B:69:ILE:C	2:B:71:ALA:N	2.34	0.84
2:B:274:PRO:HB2	2:B:295:ASN:OD1	1.75	0.84
1:A:261:THR:OG1	1:A:297:CYS:SG	2.33	0.84
1:A:402:ILE:CB	3:S:62:GLU:O	2.23	0.84
1:A:511:VAL:O	1:A:515:CYS:SG	2.36	0.84
2:B:104:TYR:O	2:B:107:ARG:N	2.09	0.84
2:B:107:ARG:NH1	4:M:20:LEU:HB3	1.92	0.84
2:B:596:LEU:HD22	2:B:615:SER:OG	1.76	0.84
4:M:362:PHE:O	4:M:363:ASN:O	1.95	0.84
4:M:443:SER:HB3	4:M:447:ILE:N	1.93	0.84
1:A:395:PHE:CE1	1:A:428:MET:HG3	2.12	0.84
1:A:409:VAL:HG12	3:S:42:ARG:NH1	1.92	0.84
1:A:298:ILE:O	1:A:299:VAL:C	2.18	0.84
1:A:409:VAL:HG12	3:S:42:ARG:HH12	1.42	0.84
1:A:581:LEU:HD23	1:A:607:LEU:CD1	2.07	0.84
2:B:103:LEU:HD11	4:M:127:CYS:SG	2.17	0.84
3:S:109:LEU:HD12	3:S:113:PHE:CD1	2.12	0.84
4:M:92:PHE:CZ	4:M:128:CYS:HB2	2.12	0.84
4:M:258:VAL:HG13	4:M:449:VAL:CG1	2.07	0.84
1:A:179:LYS:HZ3	3:S:141:VAL:C	1.86	0.84
1:A:589:SER:HA	1:A:597:GLN:HG3	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:405:GLU:C	2:B:446:TRP:HE1	1.84	0.84
2:B:433:VAL:CG2	2:B:471:TYR:CE2	2.61	0.84
3:S:53:THR:OG1	3:S:68:VAL:N	2.11	0.84
4:M:6:TYR:HA	4:M:16:PHE:O	1.77	0.84
1:A:114:PHE:O	1:A:115:TYR:O	1.95	0.84
1:A:190:LEU:HD11	1:A:228:LYS:HE3	1.60	0.84
1:A:240:LEU:O	1:A:241:TYR:C	2.09	0.84
1:A:495:ILE:HG21	1:A:515:CYS:HB3	1.59	0.84
1:A:503:ASN:ND2	4:M:60:LEU:CD2	2.40	0.84
1:A:581:LEU:CD2	1:A:607:LEU:HD11	2.07	0.84
2:B:127:LEU:HB3	2:B:157:THR:HG23	1.59	0.84
2:B:172:GLU:O	2:B:173:VAL:C	2.06	0.84
2:B:430:ILE:HD11	2:B:466:SER:HB2	1.58	0.84
4:M:432:THR:HA	4:M:481:VAL:O	1.77	0.84
2:B:106:LEU:HD12	2:B:144:ASP:O	1.74	0.84
2:B:226:LEU:HD21	2:B:255:TYR:CD1	2.11	0.84
2:B:389:ILE:O	2:B:390:VAL:C	2.12	0.84
2:B:398:ILE:HG22	2:B:402:LEU:CD1	2.08	0.84
2:B:549:LEU:HD13	2:B:595:VAL:HG12	1.59	0.84
3:S:53:THR:OG1	3:S:68:VAL:C	2.21	0.84
4:M:131:ALA:C	4:M:133:GLU:H	1.85	0.84
4:M:271:SER:HB3	4:M:301:GLU:HG3	1.60	0.84
4:M:339:GLU:HG3	4:M:412:ARG:HG2	1.58	0.84
1:A:581:LEU:HG	1:A:585:PHE:CE2	2.13	0.84
2:B:199:LEU:C	2:B:201:ALA:H	1.86	0.84
2:B:219:TYR:CZ	2:B:226:LEU:N	2.46	0.84
2:B:403:ILE:CG2	2:B:439:CYS:SG	2.66	0.84
4:M:336:ASP:OD1	4:M:415:ILE:O	1.96	0.84
1:A:450:TYR:HH	1:A:476:GLN:HG2	1.38	0.83
2:B:512:VAL:HG22	2:B:533:LEU:HD22	1.59	0.83
4:M:212:ASN:ND2	4:M:249:TYR:O	2.11	0.83
4:M:243:ILE:N	4:M:474:THR:HG22	1.93	0.83
4:M:364:VAL:O	4:M:367:ALA:O	1.95	0.83
4:M:378:ILE:O	4:M:413:GLY:HA3	1.77	0.83
1:A:189:PHE:CB	1:A:225:LEU:HD21	2.08	0.83
2:B:103:LEU:HD12	4:M:123:LEU:CD1	1.97	0.83
2:B:274:PRO:HG2	2:B:295:ASN:CA	2.08	0.83
2:B:403:ILE:CD1	2:B:439:CYS:CB	2.49	0.83
2:B:515:PHE:CD2	2:B:529:VAL:HG21	2.13	0.83
3:S:31:LEU:O	3:S:35:VAL:HG13	1.79	0.83
4:M:47:SER:HB2	4:M:50:TYR:CD1	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:65:TYR:CE1	4:M:86:PRO:HB3	2.13	0.83
4:M:442:GLN:HG3	4:M:443:SER:H	1.43	0.83
1:A:107:TYR:CD1	1:A:128:LEU:HD21	2.13	0.83
2:B:230:PHE:HZ	2:B:252:LEU:HD22	1.10	0.83
2:B:252:LEU:HD13	2:B:302:PHE:HD1	1.35	0.83
4:M:478:ASN:O	4:M:479:PHE:O	1.96	0.83
1:A:88:ASN:CB	1:A:120:ILE:HD12	2.09	0.83
2:B:162:VAL:HG23	2:B:173:VAL:HG11	1.58	0.83
2:B:217:GLU:OE2	4:M:133:GLU:OE1	1.97	0.83
2:B:340:ILE:CG1	2:B:373:LEU:HD23	2.08	0.83
2:B:347:VAL:O	2:B:350:THR:N	2.10	0.83
3:S:1:MET:H2	3:S:93:GLU:HB2	1.43	0.83
3:S:16:LEU:HD13	3:S:125:TRP:NE1	1.92	0.83
4:M:261:ASN:HB2	4:M:450:GLU:HG2	1.59	0.83
2:B:27:THR:HB	2:B:57:ARG:HD2	1.60	0.83
2:B:423:HIS:CD2	4:M:365:GLU:HB3	2.12	0.83
4:M:244:VAL:HB	4:M:300:LEU:HG	1.60	0.83
1:A:568:GLU:OE1	1:A:571:ARG:NH1	2.10	0.83
2:B:351:GLU:HB3	4:M:476:THR:CG2	2.09	0.83
3:S:130:SER:CB	3:S:156:LEU:CD1	2.57	0.83
4:M:380:ARG:O	4:M:411:LEU:HA	1.76	0.83
2:B:29:LYS:H	2:B:30:LEU:HA	1.44	0.83
2:B:106:LEU:C	4:M:130:GLU:OE1	2.22	0.83
2:B:127:LEU:HD11	2:B:142:LEU:CD1	2.09	0.83
2:B:436:LEU:CD1	2:B:454:LEU:CD2	2.56	0.83
2:B:519:ALA:O	2:B:523:PHE:CD1	2.31	0.83
3:S:35:VAL:CB	3:S:77:TYR:OH	2.26	0.83
2:B:34:SER:O	2:B:37:TYR:CB	2.25	0.83
2:B:83:PHE:CD1	2:B:115:LEU:HD12	2.14	0.83
1:A:99:LYS:HG2	1:A:101:GLN:H	1.44	0.83
1:A:495:ILE:CG2	1:A:515:CYS:HB3	2.07	0.83
2:B:152:PRO:HA	2:B:188:TYR:HE1	1.44	0.83
2:B:181:TYR:HE1	2:B:222:HIS:NE2	1.76	0.83
2:B:252:LEU:CD1	2:B:302:PHE:CE1	2.62	0.83
2:B:340:ILE:HB	2:B:373:LEU:HG	1.61	0.83
2:B:408:VAL:HB	2:B:446:TRP:CD1	2.14	0.83
4:M:220:GLU:CD	4:M:439:TYR:CD2	2.57	0.83
4:M:223:HIS:CG	4:M:476:THR:HG1	1.95	0.83
4:M:276:VAL:HG22	4:M:290:PHE:CD1	2.13	0.83
1:A:638:LEU:HD11	2:B:557:SER:C	2.01	0.82
2:B:374:PHE:HE2	2:B:402:LEU:CD1	1.42	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:398:ILE:HG22	2:B:402:LEU:HD11	1.58	0.82
4:M:235:LEU:HD13	4:M:310:VAL:HG21	1.59	0.82
2:B:70:MET:HE3	2:B:107:ARG:CG	2.06	0.82
2:B:90:ILE:N	2:B:101:ILE:HD13	1.94	0.82
2:B:216:LYS:HZ3	4:M:136:VAL:HG21	1.43	0.82
2:B:429:VAL:HG12	2:B:467:VAL:CG1	2.09	0.82
4:M:220:GLU:CG	4:M:439:TYR:CD2	2.59	0.82
2:B:72:SER:C	4:M:19:LEU:CB	2.52	0.82
2:B:100:LEU:HD21	4:M:123:LEU:CD2	2.09	0.82
2:B:106:LEU:CG	4:M:130:GLU:CB	2.40	0.82
2:B:337:THR:CB	2:B:373:LEU:HD13	2.05	0.82
2:B:415:LEU:HD12	2:B:436:LEU:CD2	2.09	0.82
4:M:245:ASP:HB3	4:M:472:TYR:HD1	1.41	0.82
4:M:327:PHE:CE1	4:M:336:ASP:HB2	2.14	0.82
2:B:199:LEU:C	2:B:201:ALA:N	2.33	0.82
2:B:301:LEU:O	2:B:305:SER:OG	1.97	0.82
3:S:16:LEU:CD1	3:S:125:TRP:HE1	1.92	0.82
1:A:222:ILE:HG21	1:A:240:LEU:HD11	1.61	0.82
1:A:536:MET:SD	1:A:551:LEU:CD1	2.68	0.82
2:B:140:SER:HB2	2:B:172:GLU:CD	2.05	0.82
3:S:16:LEU:CB	3:S:125:TRP:HE1	1.91	0.82
1:A:409:VAL:CG1	3:S:42:ARG:NH1	2.42	0.82
2:B:5:ILE:HD11	4:M:39:PRO:HG3	1.60	0.82
2:B:302:PHE:CE2	2:B:328:LEU:HD11	2.13	0.82
2:B:458:MET:SD	2:B:471:TYR:HB3	2.19	0.82
3:S:54:PRO:HD2	3:S:57:LEU:HB2	1.59	0.82
4:M:97:ASP:O	4:M:100:LEU:HB2	1.77	0.82
2:B:38:TYR:OH	2:B:46:GLN:CD	2.17	0.82
2:B:212:VAL:CG2	2:B:233:TYR:CE1	2.62	0.82
4:M:100:LEU:HD22	4:M:121:ILE:HG12	1.60	0.82
1:A:384:LEU:HD22	1:A:441:TYR:CD2	2.15	0.82
1:A:411:GLU:OE2	3:S:46:PHE:HE1	1.62	0.82
2:B:127:LEU:CD1	2:B:157:THR:HG21	2.10	0.82
2:B:139:LEU:HD11	2:B:176:ALA:CB	2.09	0.82
2:B:219:TYR:HE2	2:B:226:LEU:HD13	1.03	0.82
2:B:343:LEU:HD22	2:B:366:LEU:HD12	1.61	0.82
2:B:563:PHE:CD1	2:B:584:SER:CA	2.62	0.82
4:M:47:SER:O	4:M:75:TRP:HH2	1.61	0.82
4:M:243:ILE:N	4:M:474:THR:CG2	2.42	0.82
1:A:503:ASN:ND2	4:M:60:LEU:HG	1.95	0.82
2:B:267:ASP:H	2:B:289:PRO:CG	1.92	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:294:VAL:C	2:B:299:LEU:HD12	2.05	0.82
1:A:251:TRP:CZ3	3:S:97:ALA:C	2.31	0.82
1:A:606:PHE:CZ	1:A:633:PHE:CD1	2.68	0.82
2:B:418:TYR:O	2:B:419:VAL:C	2.08	0.82
3:S:6:LEU:HD22	3:S:32:LEU:HD22	1.62	0.82
4:M:271:SER:HB3	4:M:301:GLU:CG	2.08	0.82
1:A:213:SER:CB	3:S:142:ILE:HB	2.10	0.81
1:A:328:PRO:O	1:A:329:ASN:C	2.11	0.81
2:B:107:ARG:NH2	4:M:18:TYR:OH	2.12	0.81
2:B:109:ALA:CB	2:B:145:MET:SD	2.69	0.81
2:B:219:TYR:HB3	2:B:223:LEU:CD2	2.10	0.81
2:B:253:ILE:HG12	2:B:324:ALA:CA	2.10	0.81
2:B:379:LYS:HE2	2:B:410:GLU:CG	2.02	0.81
2:B:438:ARG:HA	2:B:441:GLN:HE21	1.45	0.81
2:B:513:TRP:O	2:B:516:GLY:N	2.12	0.81
1:A:100:LEU:O	1:A:101:GLN:O	1.96	0.81
1:A:216:SER:O	1:A:219:VAL:HB	1.80	0.81
2:B:347:VAL:CG1	2:B:381:PHE:CE1	2.63	0.81
3:S:53:THR:HB	3:S:68:VAL:C	2.05	0.81
4:M:304:VAL:HG11	4:M:445:SER:HA	1.62	0.81
1:A:504:ILE:CA	4:M:59:ASP:CG	2.46	0.81
1:A:581:LEU:HB3	1:A:607:LEU:HD13	1.61	0.81
2:B:17:VAL:HB	2:B:35:TYR:CD2	2.14	0.81
2:B:278:PRO:CA	2:B:288:TYR:HB2	2.10	0.81
4:M:212:ASN:HB3	4:M:250:LEU:HA	1.62	0.81
4:M:223:HIS:HA	4:M:479:PHE:CG	2.14	0.81
4:M:272:LEU:CD2	4:M:278:ILE:HB	2.08	0.81
1:A:204:VAL:HG13	1:A:239:LEU:CD1	2.09	0.81
2:B:67:ILE:O	4:M:18:TYR:HE1	1.62	0.81
2:B:230:PHE:HE1	2:B:234:CYS:SG	1.96	0.81
2:B:404:ASN:O	2:B:405:GLU:C	2.08	0.81
2:B:486:HIS:HE1	2:B:518:ILE:HD13	1.39	0.81
3:S:89:VAL:HG11	3:S:98:ILE:CG1	2.10	0.81
4:M:288:ILE:HD12	4:M:300:LEU:HD22	1.61	0.81
1:A:121:LEU:HD13	1:A:155:THR:HG23	1.60	0.81
1:A:462:GLN:C	4:M:58:ARG:HB3	2.04	0.81
1:A:492:ILE:HG21	1:A:526:VAL:HG21	1.62	0.81
2:B:14:THR:CG2	2:B:40:GLN:HG2	2.09	0.81
2:B:38:TYR:CZ	2:B:46:GLN:HB2	2.16	0.81
2:B:348:THR:CB	4:M:305:ASP:OD2	2.28	0.81
4:M:67:SER:OG	4:M:90:PHE:HD1	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:293:PRO:HB2	4:M:294:ASP:O	1.79	0.81
1:A:503:ASN:ND2	4:M:60:LEU:HD23	1.94	0.81
1:A:585:PHE:HE2	1:A:603:VAL:HG11	1.33	0.81
2:B:13:ASP:O	2:B:17:VAL:HG13	1.80	0.81
2:B:13:ASP:C	2:B:17:VAL:HG22	2.04	0.81
2:B:38:TYR:HE2	2:B:43:ASN:C	1.81	0.81
2:B:106:LEU:HB3	4:M:130:GLU:CB	2.11	0.81
2:B:344:VAL:HG21	2:B:377:TYR:CG	2.15	0.81
4:M:284:SER:O	4:M:285:PRO:C	2.11	0.81
4:M:350:VAL:CG1	4:M:442:GLN:CB	2.57	0.81
1:A:320:HIS:O	1:A:321:THR:C	2.19	0.81
1:A:506:LYS:HE3	4:M:82:LYS:HB2	1.59	0.81
2:B:268:LYS:HA	2:B:276:SER:HB2	1.60	0.81
2:B:399:LEU:HD12	2:B:415:LEU:HD21	1.62	0.81
2:B:563:PHE:CD1	2:B:584:SER:CB	2.62	0.81
2:B:588:ILE:HG23	2:B:618:PHE:HZ	1.46	0.81
3:S:80:TYR:O	3:S:82:THR:N	2.14	0.81
3:S:89:VAL:HG11	3:S:98:ILE:CG2	2.11	0.81
4:M:218:LEU:O	4:M:441:GLY:HA2	1.81	0.81
4:M:222:PHE:C	4:M:479:PHE:CE1	2.53	0.81
2:B:72:SER:HA	4:M:17:GLN:HE22	0.64	0.81
2:B:261:PRO:HB2	2:B:290:SER:CB	2.10	0.81
4:M:306:LEU:HD13	4:M:317:MET:CE	2.10	0.81
4:M:327:PHE:CE1	4:M:336:ASP:OD2	2.33	0.81
4:M:354:ASP:O	4:M:438:SER:O	1.99	0.81
4:M:435:LEU:O	4:M:479:PHE:CE1	2.32	0.81
1:A:212:ILE:O	1:A:213:SER:C	2.16	0.81
1:A:429:VAL:HG11	1:A:473:ILE:CG1	2.11	0.81
1:A:506:LYS:O	1:A:507:GLN:HB2	1.79	0.81
2:B:106:LEU:HB3	4:M:130:GLU:HB3	1.62	0.81
2:B:216:LYS:NZ	4:M:136:VAL:HG21	1.95	0.81
2:B:377:TYR:O	2:B:380:LYS:HB2	1.80	0.81
3:S:3:HIS:NE2	3:S:90:ASP:OD2	2.13	0.81
3:S:109:LEU:O	3:S:110:ASP:C	2.10	0.81
2:B:197:LYS:HB2	2:B:229:HIS:CD2	2.16	0.81
2:B:227:HIS:HA	2:B:298:ASP:OD2	1.81	0.81
2:B:383:VAL:O	2:B:385:PRO:CD	2.29	0.81
2:B:566:ALA:HB2	2:B:581:TYR:CD1	2.16	0.81
3:S:6:LEU:HD11	3:S:14:PRO:HB3	1.63	0.81
1:A:128:LEU:HD13	1:A:150:LEU:HG	1.62	0.80
2:B:44:PRO:CB	2:B:82:TYR:OH	2.28	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:106:LEU:HD21	4:M:130:GLU:CA	2.10	0.80
2:B:295:ASN:C	2:B:300:ASP:HB2	2.01	0.80
2:B:435:SER:O	2:B:438:ARG:N	2.13	0.80
4:M:223:HIS:CD2	4:M:478:ASN:HA	2.16	0.80
2:B:252:LEU:O	2:B:302:PHE:HE2	1.62	0.80
2:B:278:PRO:CG	2:B:292:GLU:OE1	2.28	0.80
2:B:308:CYS:O	2:B:312:SER:N	2.10	0.80
2:B:337:THR:HA	2:B:373:LEU:CD2	2.11	0.80
2:B:349:MET:HG2	4:M:305:ASP:HB2	1.63	0.80
1:A:88:ASN:CG	1:A:120:ILE:HG21	2.07	0.80
1:A:189:PHE:HB2	1:A:225:LEU:HD21	1.61	0.80
2:B:16:LYS:NZ	4:M:111:ILE:CD1	2.44	0.80
2:B:70:MET:HE3	2:B:107:ARG:CD	2.11	0.80
2:B:193:LEU:HD22	2:B:225:LEU:HB3	0.81	0.80
2:B:232:ARG:O	2:B:236:ILE:HG13	1.81	0.80
2:B:243:TRP:HZ3	4:M:98:ARG:HD2	1.37	0.80
2:B:430:ILE:HG12	2:B:467:VAL:HA	1.64	0.80
4:M:120:ARG:O	4:M:124:ILE:HD12	1.81	0.80
1:A:346:THR:O	1:A:347:ASP:C	2.15	0.80
2:B:219:TYR:CE1	2:B:226:LEU:N	2.48	0.80
2:B:267:ASP:N	2:B:289:PRO:HG3	1.96	0.80
4:M:51:LEU:HB3	4:M:68:VAL:CG2	2.09	0.80
4:M:288:ILE:HD12	4:M:300:LEU:CD2	2.11	0.80
2:B:70:MET:HE3	2:B:107:ARG:HD2	1.63	0.80
2:B:278:PRO:HA	2:B:288:TYR:HB2	1.62	0.80
2:B:378:THR:HG23	2:B:379:LYS:N	1.94	0.80
2:B:430:ILE:HD11	2:B:466:SER:CB	2.12	0.80
4:M:66:PHE:HD1	4:M:78:ALA:O	1.64	0.80
1:A:121:LEU:HD12	1:A:153:ILE:HG22	1.63	0.80
1:A:533:ILE:HG12	1:A:562:TRP:CH2	2.16	0.80
2:B:22:ALA:CB	2:B:33:SER:OG	2.27	0.80
2:B:193:LEU:HB3	2:B:225:LEU:CD1	2.11	0.80
2:B:213:LEU:CD2	4:M:136:VAL:HB	2.11	0.80
2:B:274:PRO:HG2	2:B:295:ASN:HB3	1.64	0.80
2:B:310:ILE:HA	2:B:318:ILE:HG12	1.62	0.80
2:B:343:LEU:HD22	2:B:366:LEU:CD1	2.12	0.80
3:S:55:PRO:HA	3:S:69:ASN:HB3	1.63	0.80
4:M:449:VAL:CG1	4:M:452:ILE:HG13	2.11	0.80
1:A:136:GLY:O	1:A:139:ASP:CB	2.30	0.80
1:A:411:GLU:OE2	3:S:46:PHE:CZ	2.35	0.80
1:A:536:MET:O	1:A:537:THR:O	2.00	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:73:ASP:N	4:M:19:LEU:HD23	1.76	0.80
2:B:396:ILE:HG21	2:B:432:ALA:N	1.96	0.80
2:B:472:VAL:O	2:B:473:ASN:C	2.18	0.80
3:S:43:ASN:O	3:S:44:SER:C	2.15	0.80
4:M:347:PHE:CD1	4:M:350:VAL:CG1	2.65	0.80
4:M:353:VAL:HG23	4:M:438:SER:O	1.81	0.80
1:A:536:MET:SD	1:A:551:LEU:HD11	2.21	0.80
1:A:589:SER:C	1:A:597:GLN:HG3	1.87	0.80
1:A:606:PHE:CZ	1:A:633:PHE:CG	2.59	0.80
2:B:243:TRP:HH2	4:M:98:ARG:HH11	1.30	0.80
2:B:278:PRO:CA	2:B:288:TYR:C	2.55	0.80
2:B:79:VAL:C	2:B:108:PHE:HE2	1.89	0.80
2:B:243:TRP:HH2	4:M:98:ARG:NH1	1.78	0.80
3:S:53:THR:CG2	3:S:68:VAL:HA	2.11	0.80
4:M:122:SER:O	4:M:125:PHE:HB2	1.81	0.80
2:B:14:THR:CB	2:B:40:GLN:HG2	2.12	0.80
2:B:103:LEU:HD21	4:M:127:CYS:SG	2.22	0.80
2:B:144:ASP:OD1	4:M:131:ALA:CA	2.28	0.79
2:B:162:VAL:HG22	2:B:199:LEU:CG	2.12	0.79
2:B:278:PRO:HB3	2:B:288:TYR:O	1.82	0.79
2:B:318:ILE:HG21	2:B:346:THR:CB	2.12	0.79
2:B:344:VAL:HG22	2:B:374:PHE:HE1	1.43	0.79
2:B:347:VAL:CB	2:B:381:PHE:CE1	2.65	0.79
4:M:16:PHE:CE2	4:M:125:PHE:CE2	2.69	0.79
4:M:222:PHE:CE2	4:M:439:TYR:HE2	1.99	0.79
1:A:536:MET:HG2	1:A:551:LEU:CD1	2.11	0.79
2:B:102:HIS:O	2:B:103:LEU:C	2.18	0.79
1:A:225:LEU:HB2	1:A:233:PHE:CZ	2.16	0.79
1:A:399:ASP:H	1:A:418:ILE:HD11	1.46	0.79
2:B:162:VAL:HG22	2:B:199:LEU:CD1	2.12	0.79
2:B:219:TYR:O	2:B:220:ALA:C	2.23	0.79
2:B:223:LEU:O	2:B:224:GLU:C	2.16	0.79
2:B:567:GLN:C	2:B:569:THR:OG1	2.24	0.79
1:A:282:MET:O	1:A:283:GLU:C	2.22	0.79
1:A:506:LYS:CE	4:M:82:LYS:HB3	1.98	0.79
1:A:609:LEU:HG	1:A:628:VAL:HG11	1.65	0.79
3:S:53:THR:HB	3:S:69:ASN:CB	2.13	0.79
4:M:290:PHE:HB2	4:M:299:LEU:HD11	1.63	0.79
1:A:599:ARG:NE	2:B:610:ARG:HH22	1.79	0.79
2:B:16:LYS:HZ3	4:M:111:ILE:CD1	1.95	0.79
2:B:69:ILE:HG22	2:B:77:ILE:HG13	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:378:THR:O	2:B:380:LYS:N	2.15	0.79
2:B:474:VAL:O	2:B:477:MET:N	2.14	0.79
2:B:580:TYR:HB3	2:B:582:ASP:OD1	1.83	0.79
4:M:131:ALA:C	4:M:133:GLU:N	2.39	0.79
4:M:343:ASN:HA	4:M:408:VAL:CG1	2.08	0.79
1:A:182:ILE:HG22	1:A:221:VAL:CG2	2.12	0.79
1:A:258:LYS:NZ	3:S:93:GLU:C	2.40	0.79
1:A:558:VAL:HG13	1:A:562:TRP:NE1	1.97	0.79
2:B:18:ILE:CD1	2:B:36:THR:CG2	2.49	0.79
2:B:53:SER:OG	2:B:58:GLU:OE1	2.00	0.79
2:B:215:TYR:HD1	2:B:219:TYR:HE2	1.25	0.79
2:B:277:CYS:SG	2:B:292:GLU:HG3	2.22	0.79
3:S:8:PHE:CG	3:S:36:TYR:CE1	2.71	0.79
4:M:478:ASN:O	4:M:479:PHE:C	2.25	0.79
1:A:328:PRO:O	3:S:50:PHE:HZ	1.65	0.79
2:B:69:ILE:C	2:B:71:ALA:H	1.91	0.79
2:B:179:LYS:NZ	4:M:131:ALA:CA	2.46	0.79
2:B:589:SER:HA	2:B:592:TYR:HD2	1.47	0.79
4:M:65:TYR:CZ	4:M:86:PRO:CB	2.61	0.79
4:M:104:PHE:CZ	4:M:117:ASN:CB	2.65	0.79
4:M:334:ASP:O	4:M:417:TYR:N	2.15	0.79
2:B:106:LEU:CG	2:B:144:ASP:CB	2.61	0.79
2:B:107:ARG:HH12	4:M:20:LEU:CG	1.95	0.79
2:B:167:ALA:O	2:B:207:VAL:HG21	1.82	0.79
4:M:120:ARG:O	4:M:124:ILE:CD1	2.31	0.79
4:M:235:LEU:CD1	4:M:306:LEU:HB3	2.12	0.79
4:M:240:ILE:CG2	4:M:444:ALA:CA	2.61	0.79
2:B:12:LEU:CD2	4:M:13:LYS:HG3	2.13	0.79
2:B:82:TYR:HB2	2:B:104:TYR:CZ	2.17	0.79
4:M:44:ASP:CB	4:M:50:TYR:CE2	2.64	0.79
4:M:218:LEU:HG	4:M:244:VAL:HG22	1.64	0.79
1:A:558:VAL:HG12	1:A:562:TRP:CE2	2.17	0.79
2:B:158:VAL:HG13	2:B:173:VAL:CG1	2.12	0.79
4:M:12:ASN:CG	4:M:42:LEU:HB3	2.08	0.79
4:M:217:ASP:CB	4:M:470:ALA:O	2.30	0.79
1:A:394:GLN:O	1:A:398:GLU:N	2.14	0.78
2:B:103:LEU:HD13	4:M:123:LEU:CD1	2.12	0.78
2:B:243:TRP:CH2	4:M:98:ARG:NH1	2.51	0.78
1:A:244:LEU:HG	1:A:281:LEU:HD11	1.64	0.78
2:B:12:LEU:HB3	4:M:13:LYS:HG3	1.46	0.78
2:B:223:LEU:HD11	2:B:258:GLN:HB2	1.60	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:310:ILE:CG2	2:B:342:ALA:CB	2.60	0.78
2:B:515:PHE:O	2:B:516:GLY:C	2.17	0.78
4:M:383:HIS:CB	4:M:403:THR:OG1	2.32	0.78
1:A:395:PHE:CE2	1:A:420:ILE:HD13	2.18	0.78
2:B:16:LYS:HD3	4:M:115:VAL:CG2	2.09	0.78
2:B:80:GLN:CG	2:B:108:PHE:CZ	2.66	0.78
2:B:124:GLN:CD	2:B:153:ILE:HG23	2.09	0.78
2:B:252:LEU:HD12	2:B:302:PHE:CE1	2.18	0.78
2:B:276:SER:C	2:B:295:ASN:HB2	2.06	0.78
1:A:182:ILE:CG2	1:A:221:VAL:HG21	2.12	0.78
4:M:7:ILE:CD1	4:M:121:ILE:HG21	2.12	0.78
4:M:214:LEU:O	4:M:467:TYR:N	2.16	0.78
4:M:356:LEU:CD2	4:M:358:ILE:CG1	2.62	0.78
1:A:405:THR:HA	2:B:7:ARG:HH21	0.64	0.78
4:M:317:MET:HB3	4:M:320:ILE:O	1.84	0.78
1:A:95:MET:SD	1:A:107:TYR:CD1	2.75	0.78
1:A:223:CYS:O	1:A:226:SER:OG	2.00	0.78
1:A:536:MET:CG	1:A:551:LEU:CD1	2.61	0.78
1:A:605:GLU:OE2	1:A:608:ARG:NH2	2.16	0.78
2:B:232:ARG:HG3	2:B:236:ILE:CD1	2.13	0.78
2:B:374:PHE:C	2:B:402:LEU:HD22	2.08	0.78
3:S:4:ALA:HB2	3:S:19:PHE:HD1	1.49	0.78
3:S:15:ARG:O	3:S:125:TRP:CZ2	2.36	0.78
4:M:214:LEU:C	4:M:467:TYR:H	1.91	0.78
4:M:281:GLY:C	4:M:281:GLY:N	2.41	0.78
1:A:332:TYR:CZ	1:A:336:ILE:HD11	2.18	0.78
1:A:384:LEU:HG	1:A:385:LYS:H	1.49	0.78
2:B:178:ILE:HG13	2:B:214:ALA:O	1.84	0.78
2:B:212:VAL:CG2	2:B:248:LEU:CD2	2.60	0.78
2:B:272:GLY:O	2:B:274:PRO:HD3	1.84	0.78
2:B:309:LEU:CB	2:B:317:VAL:CG1	2.57	0.78
2:B:309:LEU:CB	2:B:317:VAL:HG11	2.13	0.78
2:B:310:ILE:O	2:B:311:TYR:O	2.01	0.78
2:B:313:SER:CB	4:M:269:ILE:CB	2.42	0.78
2:B:340:ILE:HG13	2:B:373:LEU:HB3	1.66	0.78
2:B:444:THR:HG22	2:B:482:ASN:OD1	1.84	0.78
3:S:35:VAL:HB	3:S:77:TYR:CZ	2.18	0.78
4:M:240:ILE:HG22	4:M:444:ALA:CA	2.14	0.78
1:A:104:ARG:HA	1:A:145:ILE:HG21	1.66	0.78
1:A:200:PHE:CZ	1:A:236:LEU:CD2	2.66	0.78
1:A:558:VAL:CG1	1:A:562:TRP:NE1	2.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:12:LEU:HD13	4:M:13:LYS:HG3	1.14	0.78
2:B:347:VAL:CG1	2:B:381:PHE:HE1	1.95	0.78
2:B:478:LEU:O	2:B:479:VAL:C	2.19	0.78
2:B:501:THR:C	2:B:508:ARG:NH2	2.41	0.78
4:M:9:ASP:CB	4:M:111:ILE:HG21	2.11	0.78
4:M:78:ALA:CB	4:M:89:CYS:SG	2.72	0.78
4:M:293:PRO:O	4:M:293:PRO:CD	2.32	0.78
4:M:319:SER:HB3	4:M:343:ASN:O	1.84	0.78
2:B:16:LYS:NZ	4:M:111:ILE:CG1	2.46	0.78
2:B:162:VAL:CG2	2:B:195:ILE:HG23	2.09	0.78
2:B:178:ILE:CG1	2:B:214:ALA:CA	2.57	0.78
2:B:189:HIS:NE2	2:B:193:LEU:HD11	1.99	0.78
2:B:245:GLN:NE2	2:B:309:LEU:CD1	2.40	0.78
2:B:274:PRO:CG	2:B:295:ASN:CA	2.61	0.78
4:M:121:ILE:O	4:M:125:PHE:HD1	1.67	0.78
1:A:281:LEU:O	1:A:282:MET:C	2.12	0.77
1:A:397:ASP:O	1:A:418:ILE:HG13	1.84	0.77
2:B:188:TYR:O	2:B:192:LEU:HD13	1.82	0.77
2:B:215:TYR:CD1	2:B:219:TYR:HE2	2.01	0.77
2:B:534:ILE:HD13	2:B:591:MET:O	1.84	0.77
2:B:534:ILE:CD1	2:B:591:MET:O	2.32	0.77
3:S:53:THR:O	3:S:69:ASN:CG	2.27	0.77
4:M:7:ILE:HA	4:M:76:CYS:HA	1.66	0.77
4:M:131:ALA:CB	4:M:131:ALA:N	2.44	0.77
4:M:243:ILE:HD13	4:M:301:GLU:HB3	1.66	0.77
4:M:343:ASN:H	4:M:343:ASN:HD22	1.28	0.77
1:A:103:LYS:HB3	1:A:107:TYR:HE2	1.49	0.77
2:B:274:PRO:HG3	2:B:295:ASN:HA	1.65	0.77
2:B:340:ILE:HG21	2:B:374:PHE:CA	2.14	0.77
2:B:373:LEU:C	2:B:375:LEU:H	1.92	0.77
1:A:213:SER:CB	3:S:142:ILE:CA	2.62	0.77
2:B:102:HIS:ND1	2:B:137:PHE:HB3	1.99	0.77
4:M:350:VAL:HA	4:M:442:GLN:CB	2.13	0.77
1:A:215:VAL:O	1:A:216:SER:C	2.19	0.77
2:B:72:SER:CA	4:M:17:GLN:NE2	2.05	0.77
2:B:72:SER:CB	4:M:17:GLN:CD	2.56	0.77
2:B:565:GLN:HB2	2:B:581:TYR:CE1	2.19	0.77
4:M:265:ASN:HA	4:M:313:SER:OG	1.85	0.77
2:B:278:PRO:CD	2:B:289:PRO:O	2.32	0.77
2:B:437:SER:OG	2:B:477:MET:HB2	1.84	0.77
4:M:214:LEU:HD23	4:M:214:LEU:C	2.09	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:215:TYR:N	4:M:467:TYR:HB3	1.98	0.77
4:M:222:PHE:CE1	4:M:240:ILE:HG21	2.18	0.77
4:M:224:VAL:N	4:M:479:PHE:CD2	2.52	0.77
2:B:63:MET:HG2	2:B:100:LEU:HB3	1.65	0.77
2:B:219:TYR:CE1	2:B:226:LEU:CB	2.57	0.77
2:B:328:LEU:HB3	2:B:333:GLN:NE2	2.00	0.77
4:M:45:SER:HB2	4:M:75:TRP:CZ2	2.19	0.77
4:M:43:GLU:O	4:M:45:SER:N	2.17	0.77
4:M:51:LEU:HB2	4:M:68:VAL:CB	2.15	0.77
4:M:59:ASP:O	4:M:61:GLU:N	2.17	0.77
4:M:323:MET:SD	4:M:342:LEU:CA	2.73	0.77
2:B:126:SER:O	2:B:135:ARG:HG2	1.83	0.77
2:B:574:ASN:O	2:B:576:GLN:O	2.02	0.77
4:M:224:VAL:HG22	4:M:306:LEU:HD12	1.65	0.77
4:M:253:ASN:OD1	4:M:292:PRO:HD2	1.84	0.77
4:M:283:PHE:CE2	4:M:289:THR:CB	2.68	0.77
4:M:306:LEU:HD21	4:M:317:MET:CE	2.14	0.77
4:M:343:ASN:CA	4:M:408:VAL:HG13	2.06	0.77
1:A:151:SER:HB2	1:A:187:LYS:HB2	1.65	0.77
2:B:14:THR:HA	2:B:17:VAL:HG22	1.66	0.77
3:S:53:THR:HB	3:S:69:ASN:N	2.00	0.77
4:M:96:ILE:HD11	4:M:125:PHE:HA	1.67	0.77
4:M:224:VAL:O	4:M:479:PHE:HB3	1.84	0.77
4:M:262:THR:HG22	4:M:264:GLY:N	2.00	0.77
2:B:403:ILE:HG21	2:B:439:CYS:CB	2.15	0.77
2:B:433:VAL:CG1	2:B:474:VAL:CG2	2.60	0.77
2:B:438:ARG:HA	2:B:441:GLN:NE2	1.99	0.77
2:B:564:LYS:HG3	2:B:568:VAL:HG23	1.67	0.77
4:M:5:PHE:CE2	4:M:20:LEU:CD1	2.68	0.77
4:M:69:ILE:CG2	4:M:97:ASP:OD2	2.33	0.77
1:A:348:PHE:O	1:A:352:PHE:CD2	2.38	0.76
2:B:14:THR:OG1	2:B:40:GLN:HG2	1.85	0.76
2:B:415:LEU:CD1	2:B:436:LEU:HD21	2.15	0.76
2:B:477:MET:O	2:B:480:GLN:HB2	1.85	0.76
1:A:114:PHE:C	1:A:115:TYR:O	2.27	0.76
1:A:504:ILE:O	1:A:505:ASN:C	2.10	0.76
2:B:16:LYS:HD2	4:M:115:VAL:HG21	1.64	0.76
3:S:35:VAL:HB	3:S:77:TYR:HE2	1.47	0.76
4:M:262:THR:CG2	4:M:265:ASN:N	2.43	0.76
1:A:349:ILE:CG2	1:A:378:ILE:HG22	2.15	0.76
1:A:426:ILE:HD13	1:A:466:ASP:OD2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:503:ASN:CG	4:M:59:ASP:C	2.51	0.76
1:A:585:PHE:C	1:A:600:SER:OG	2.25	0.76
2:B:568:VAL:O	2:B:571:SER:CB	2.32	0.76
4:M:220:GLU:N	4:M:439:TYR:O	2.13	0.76
1:A:365:VAL:O	1:A:366:SER:C	2.23	0.76
2:B:151:ALA:CA	2:B:180:LEU:HD11	2.14	0.76
2:B:243:TRP:CH2	4:M:98:ARG:NE	2.52	0.76
2:B:433:VAL:HG13	2:B:471:TYR:HA	1.66	0.76
4:M:45:SER:HB2	4:M:75:TRP:CH2	2.21	0.76
4:M:71:LYS:HB3	4:M:74:TYR:CE1	2.20	0.76
1:A:121:LEU:CD1	1:A:153:ILE:HG22	2.16	0.76
1:A:316:LEU:HD11	1:A:348:PHE:CD2	2.20	0.76
2:B:375:LEU:CD1	2:B:404:ASN:CG	2.48	0.76
2:B:519:ALA:O	2:B:523:PHE:HD1	1.66	0.76
4:M:6:TYR:CD2	4:M:17:GLN:HG2	2.21	0.76
4:M:47:SER:O	4:M:49:ASP:N	2.19	0.76
4:M:105:ASP:O	4:M:106:LYS:HB2	1.83	0.76
4:M:317:MET:O	4:M:322:LEU:HB3	1.86	0.76
1:A:83:ASP:OD2	1:A:85:ALA:N	2.18	0.76
1:A:350:SER:O	1:A:351:ARG:C	2.23	0.76
1:A:581:LEU:HD23	1:A:607:LEU:CD2	2.16	0.76
2:B:106:LEU:CG	4:M:130:GLU:OE1	2.32	0.76
2:B:162:VAL:CB	2:B:195:ILE:HG23	2.15	0.76
3:S:73:ILE:HG23	3:S:88:ILE:CG2	2.13	0.76
4:M:437:TYR:HD1	4:M:479:PHE:CZ	2.01	0.76
1:A:407:SER:N	3:S:64:ASN:HD21	1.84	0.76
2:B:9:ALA:CA	4:M:14:LEU:CB	2.64	0.76
2:B:23:ALA:O	2:B:32:GLU:OE2	2.01	0.76
2:B:189:HIS:CE1	2:B:193:LEU:HD11	2.20	0.76
4:M:20:LEU:HD22	4:M:129:VAL:CB	2.14	0.76
4:M:104:PHE:CE2	4:M:117:ASN:HB2	2.20	0.76
1:A:295:VAL:HG11	1:A:319:LEU:HD11	1.67	0.76
1:A:595:GLU:CD	2:B:513:TRP:CH2	2.63	0.76
2:B:28:SER:O	2:B:58:GLU:CD	2.28	0.76
2:B:219:TYR:HD2	2:B:226:LEU:HD22	1.49	0.76
2:B:559:ASP:CB	2:B:563:PHE:CD2	2.69	0.76
3:S:71:GLU:O	3:S:73:ILE:N	2.19	0.76
1:A:566:PHE:C	1:A:568:GLU:H	1.90	0.76
2:B:268:LYS:O	2:B:273:SER:CB	2.33	0.76
2:B:347:VAL:HG22	2:B:359:LEU:HB3	0.82	0.76
3:S:8:PHE:N	3:S:8:PHE:CD1	2.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:48:SER:OG	3:S:50:PHE:N	2.18	0.76
3:S:53:THR:HB	3:S:69:ASN:CA	2.15	0.76
4:M:242:GLY:O	4:M:301:GLU:HA	1.86	0.76
4:M:354:ASP:HA	4:M:401:LYS:HB3	1.67	0.76
4:M:445:SER:OG	4:M:447:ILE:HG23	1.84	0.76
1:A:309:PHE:CZ	1:A:348:PHE:CE1	2.74	0.76
1:A:539:ASN:O	1:A:540:ILE:C	2.18	0.76
2:B:18:ILE:CG2	2:B:36:THR:C	2.36	0.76
2:B:80:GLN:HG2	2:B:108:PHE:CZ	2.21	0.76
2:B:101:ILE:O	2:B:105:LEU:HD13	1.85	0.76
2:B:178:ILE:HD13	2:B:218:CYS:CB	2.16	0.76
3:S:53:THR:HB	3:S:69:ASN:HB2	1.66	0.76
4:M:243:ILE:H	4:M:474:THR:HG22	1.49	0.76
1:A:570:LYS:O	1:A:571:ARG:HB2	1.84	0.75
2:B:261:PRO:HG2	2:B:292:GLU:HB3	1.67	0.75
4:M:6:TYR:O	4:M:77:LEU:N	2.16	0.75
4:M:217:ASP:HB2	4:M:470:ALA:O	1.86	0.75
1:A:203:PHE:CZ	1:A:221:VAL:HG11	2.22	0.75
1:A:421:PRO:HB3	3:S:62:GLU:C	2.11	0.75
2:B:18:ILE:HD13	2:B:36:THR:HG22	1.65	0.75
2:B:83:PHE:CE1	2:B:87:VAL:CG2	2.68	0.75
2:B:468:LEU:HD13	2:B:503:LEU:CD2	2.15	0.75
4:M:66:PHE:CD1	4:M:78:ALA:O	2.39	0.75
1:A:92:LEU:HD23	1:A:95:MET:HE3	1.67	0.75
1:A:147:LEU:HD22	1:A:166:LEU:HD23	1.66	0.75
2:B:278:PRO:CB	2:B:288:TYR:O	2.35	0.75
2:B:344:VAL:HG21	2:B:377:TYR:HB3	1.66	0.75
2:B:418:TYR:CZ	2:B:432:ALA:HB2	2.21	0.75
2:B:513:TRP:N	2:B:551:LEU:CD1	2.49	0.75
2:B:5:ILE:CD1	4:M:39:PRO:N	2.49	0.75
2:B:106:LEU:CB	4:M:130:GLU:CB	2.65	0.75
2:B:127:LEU:HD11	2:B:142:LEU:HD12	1.69	0.75
2:B:197:LYS:HA	2:B:229:HIS:CD2	2.21	0.75
2:B:248:LEU:O	2:B:252:LEU:HG	1.86	0.75
4:M:54:SER:HB2	4:M:66:PHE:CE2	2.21	0.75
4:M:323:MET:CE	4:M:342:LEU:HB3	2.16	0.75
1:A:101:GLN:O	1:A:104:ARG:N	2.19	0.75
2:B:250:GLU:O	2:B:253:ILE:HB	1.86	0.75
2:B:280:PRO:HG3	2:B:283:TYR:CE2	2.21	0.75
4:M:15:ILE:CG2	4:M:114:ILE:HG22	2.17	0.75
4:M:41:LEU:HB3	4:M:51:LEU:HA	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:492:ILE:HD11	1:A:522:PHE:HB2	1.68	0.75
1:A:508:LEU:HD12	4:M:59:ASP:CG	2.10	0.75
2:B:185:LYS:NZ	2:B:221:ASP:OD2	2.19	0.75
2:B:277:CYS:HA	2:B:292:GLU:HA	1.69	0.75
2:B:473:ASN:O	2:B:476:ARG:HB3	1.86	0.75
4:M:379:LEU:HD23	4:M:411:LEU:CG	2.16	0.75
1:A:369:SER:HB2	1:A:424:TYR:CE2	2.21	0.75
1:A:395:PHE:CZ	1:A:428:MET:HG3	2.22	0.75
2:B:483:PRO:HA	2:B:486:HIS:HB2	1.69	0.75
4:M:70:ASN:HA	4:M:74:TYR:O	1.85	0.75
4:M:220:GLU:HG3	4:M:439:TYR:HD2	1.36	0.75
4:M:245:ASP:CB	4:M:472:TYR:HD1	1.92	0.75
1:A:503:ASN:CA	4:M:59:ASP:C	2.55	0.75
1:A:519:LEU:O	1:A:520:GLY:C	2.16	0.75
2:B:178:ILE:HD12	2:B:218:CYS:N	1.98	0.75
2:B:307:ASN:O	2:B:311:TYR:N	2.20	0.75
2:B:427:ASN:HA	2:B:430:ILE:HD12	1.67	0.75
2:B:470:ALA:O	2:B:473:ASN:N	2.20	0.75
2:B:512:VAL:HG13	2:B:533:LEU:HD11	1.62	0.75
1:A:88:ASN:HB2	1:A:120:ILE:HD12	1.69	0.75
1:A:372:ILE:CG2	1:A:431:VAL:HG21	2.17	0.75
1:A:595:GLU:CD	2:B:513:TRP:CE3	2.43	0.75
2:B:37:TYR:HD2	2:B:38:TYR:HD1	1.31	0.75
2:B:144:ASP:CA	2:B:179:LYS:HD3	2.16	0.75
2:B:219:TYR:O	2:B:223:LEU:CD2	2.34	0.75
2:B:318:ILE:HD13	2:B:346:THR:HG1	1.50	0.75
2:B:526:CYS:N	2:B:527:PRO:CD	2.48	0.75
4:M:65:TYR:CE2	4:M:86:PRO:HA	2.22	0.75
4:M:320:ILE:HG23	4:M:439:TYR:OH	1.86	0.75
1:A:503:ASN:ND2	4:M:60:LEU:CG	2.50	0.74
2:B:181:TYR:CE1	2:B:222:HIS:NE2	2.54	0.74
2:B:212:VAL:O	2:B:214:ALA:N	2.19	0.74
3:S:1:MET:N	3:S:93:GLU:OE1	2.19	0.74
4:M:282:VAL:N	4:M:283:PHE:N	2.34	0.74
4:M:362:PHE:CE1	4:M:374:TYR:CZ	2.74	0.74
4:M:405:THR:C	4:M:407:THR:H	1.90	0.74
1:A:254:ILE:HG13	1:A:290:VAL:HG22	1.69	0.74
2:B:231:ARG:O	2:B:233:TYR:N	2.20	0.74
2:B:231:ARG:HG2	2:B:297:PRO:HB2	1.69	0.74
2:B:312:SER:C	4:M:269:ILE:CD1	2.50	0.74
2:B:505:ASP:O	2:B:506:ASN:C	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:73:ILE:HG23	3:S:88:ILE:HG23	1.69	0.74
4:M:377:LYS:NZ	4:M:416:GLU:OE1	2.20	0.74
1:A:163:ALA:O	1:A:164:ASP:C	2.24	0.74
1:A:196:LEU:O	1:A:196:LEU:HD22	1.87	0.74
1:A:379:VAL:HG11	1:A:441:TYR:OH	1.86	0.74
1:A:429:VAL:CG2	1:A:469:LEU:HD11	2.17	0.74
2:B:508:ARG:O	2:B:509:ALA:C	2.21	0.74
2:B:549:LEU:CD2	2:B:607:ILE:O	2.34	0.74
4:M:6:TYR:CD2	4:M:17:GLN:CG	2.70	0.74
4:M:15:ILE:HG21	4:M:114:ILE:CG2	2.17	0.74
4:M:283:PHE:CE2	4:M:289:THR:OG1	2.40	0.74
4:M:327:PHE:HE1	4:M:336:ASP:HB2	1.52	0.74
4:M:380:ARG:O	4:M:410:VAL:O	2.05	0.74
2:B:17:VAL:HG23	2:B:35:TYR:HD2	1.43	0.74
2:B:120:ILE:CD1	2:B:150:LEU:HD13	2.17	0.74
2:B:216:LYS:HG3	2:B:251:LEU:CD1	2.16	0.74
2:B:374:PHE:CE2	2:B:398:ILE:HG21	2.20	0.74
2:B:559:ASP:HB2	2:B:563:PHE:CD2	2.22	0.74
4:M:71:LYS:HG2	4:M:74:TYR:OH	1.87	0.74
1:A:492:ILE:HG23	1:A:519:LEU:CD2	2.18	0.74
2:B:5:ILE:HD11	4:M:39:PRO:CA	2.17	0.74
2:B:285:GLU:O	2:B:286:ILE:C	2.27	0.74
4:M:101:LEU:C	4:M:103:TYR:O	2.30	0.74
1:A:68:THR:CB	3:S:166:LYS:HD3	2.17	0.74
1:A:156:PRO:O	1:A:157:SER:C	2.24	0.74
1:A:545:HIS:O	1:A:546:SER:C	2.17	0.74
2:B:34:SER:O	2:B:37:TYR:N	2.20	0.74
2:B:347:VAL:HA	2:B:359:LEU:HG	1.68	0.74
4:M:54:SER:N	4:M:66:PHE:HD2	1.84	0.74
4:M:245:ASP:N	4:M:472:TYR:CZ	2.55	0.74
4:M:323:MET:HE3	4:M:342:LEU:HB3	1.68	0.74
1:A:136:GLY:O	1:A:139:ASP:CA	2.35	0.74
2:B:25:VAL:HG21	2:B:31:GLY:N	2.01	0.74
2:B:213:LEU:CD1	4:M:135:ASN:CG	2.52	0.74
2:B:216:LYS:HB2	2:B:251:LEU:HD13	0.74	0.74
2:B:422:ALA:CB	2:B:424:PHE:CE2	2.67	0.74
4:M:67:SER:HG	4:M:90:PHE:HD1	1.33	0.74
4:M:71:LYS:O	4:M:74:TYR:CD2	2.41	0.74
4:M:235:LEU:HD11	4:M:306:LEU:HB3	1.67	0.74
4:M:267:ILE:HD12	4:M:445:SER:OG	1.88	0.74
1:A:260:PHE:CG	1:A:274:LEU:HG	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:106:LEU:HD13	2:B:144:ASP:C	2.13	0.74
2:B:278:PRO:C	2:B:288:TYR:CB	2.59	0.74
4:M:114:ILE:C	4:M:116:ASN:N	2.44	0.74
4:M:262:THR:HG22	4:M:264:GLY:CA	2.18	0.74
2:B:123:LEU:HD13	2:B:142:LEU:HG	1.68	0.74
2:B:151:ALA:HB3	2:B:188:TYR:CE2	2.23	0.74
2:B:400:SER:CB	2:B:435:SER:HB3	2.09	0.74
2:B:560:ILE:CG2	2:B:564:LYS:HB2	2.18	0.74
4:M:226:PHE:HB2	4:M:481:VAL:HG22	1.69	0.74
4:M:269:ILE:C	4:M:302:TYR:CE2	2.66	0.74
1:A:566:PHE:CD1	1:A:570:LYS:HA	2.23	0.74
2:B:120:ILE:HA	2:B:142:LEU:HD21	1.70	0.74
2:B:223:LEU:HD11	2:B:258:GLN:CA	2.15	0.74
3:S:25:LEU:O	3:S:26:PRO:C	2.16	0.74
3:S:75:ILE:HG22	3:S:77:TYR:CE1	2.23	0.74
4:M:70:ASN:HB2	4:M:75:TRP:CE3	2.23	0.74
1:A:186:PHE:CD2	1:A:224:GLU:CB	2.71	0.73
2:B:17:VAL:HG11	2:B:35:TYR:HE2	1.53	0.73
2:B:73:ASP:CG	4:M:19:LEU:HD22	2.12	0.73
2:B:197:LYS:CB	2:B:229:HIS:CD2	2.71	0.73
2:B:472:VAL:HG11	2:B:510:GLY:CA	2.17	0.73
3:S:130:SER:CB	3:S:156:LEU:HD13	2.18	0.73
1:A:158:LEU:HG	1:A:162:ILE:CD1	2.18	0.73
1:A:213:SER:CB	3:S:142:ILE:HA	2.18	0.73
1:A:421:PRO:HB3	3:S:63:ASN:N	2.02	0.73
2:B:136:CYS:CA	2:B:172:GLU:HG3	2.17	0.73
2:B:139:LEU:CD1	2:B:176:ALA:HB2	2.18	0.73
2:B:140:SER:CB	2:B:172:GLU:OE1	2.36	0.73
2:B:179:LYS:CE	4:M:131:ALA:O	2.36	0.73
2:B:472:VAL:HG11	2:B:511:ILE:N	2.03	0.73
4:M:43:GLU:C	4:M:45:SER:H	1.96	0.73
4:M:283:PHE:CE2	4:M:289:THR:HB	2.23	0.73
4:M:374:TYR:HA	4:M:417:TYR:HA	1.70	0.73
1:A:71:VAL:CG1	1:A:105:VAL:HG12	2.17	0.73
2:B:12:LEU:HD22	4:M:13:LYS:HE3	1.70	0.73
2:B:259:TYR:C	2:B:261:PRO:N	2.23	0.73
2:B:545:ARG:HH11	2:B:602:ASP:CG	1.96	0.73
3:S:35:VAL:HB	3:S:77:TYR:OH	1.87	0.73
4:M:250:LEU:CD1	4:M:254:PRO:HG2	2.18	0.73
1:A:462:GLN:CG	4:M:59:ASP:CG	2.58	0.73
1:A:579:LYS:O	1:A:582:ILE:HB	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:253:ILE:CG1	2:B:324:ALA:CB	2.66	0.73
3:S:49:SER:O	3:S:77:TYR:HB2	1.89	0.73
1:A:236:LEU:C	1:A:238:PRO:HD2	2.13	0.73
1:A:323:CYS:HG	1:A:338:PHE:HE2	1.36	0.73
2:B:279:LEU:HD12	2:B:285:GLU:HG2	1.69	0.73
2:B:367:SER:CB	2:B:401:THR:HG1	2.02	0.73
2:B:554:LYS:O	2:B:557:SER:N	2.21	0.73
2:B:559:ASP:HA	2:B:562:ASN:HB2	1.69	0.73
3:S:135:ILE:HG23	3:S:141:VAL:CG1	2.18	0.73
4:M:42:LEU:HD23	4:M:51:LEU:HD21	1.69	0.73
2:B:12:LEU:HD13	4:M:13:LYS:HB2	1.63	0.73
2:B:28:SER:CA	2:B:58:GLU:HG2	2.19	0.73
2:B:69:ILE:CG2	2:B:77:ILE:HG13	2.19	0.73
2:B:204:ASP:O	2:B:207:VAL:HB	1.89	0.73
2:B:223:LEU:HD13	2:B:259:TYR:CA	2.15	0.73
2:B:260:LEU:C	2:B:261:PRO:O	2.22	0.73
2:B:403:ILE:HD11	2:B:439:CYS:C	1.87	0.73
2:B:596:LEU:HD12	2:B:611:ALA:CB	2.18	0.73
4:M:19:LEU:HD21	4:M:24:ALA:CB	2.19	0.73
4:M:224:VAL:HG11	4:M:226:PHE:CZ	2.23	0.73
4:M:225:VAL:HB	4:M:237:THR:OG1	1.88	0.73
4:M:375:LYS:HE3	4:M:418:GLU:OE1	1.88	0.73
4:M:449:VAL:HG11	4:M:452:ILE:CG1	2.19	0.73
1:A:114:PHE:CG	1:A:153:ILE:HG12	2.22	0.73
1:A:402:ILE:HG21	3:S:62:GLU:C	2.11	0.73
2:B:1:MET:HG3	4:M:39:PRO:HG2	1.71	0.73
2:B:5:ILE:HG23	4:M:42:LEU:CD1	2.18	0.73
2:B:318:ILE:HD13	2:B:346:THR:CG2	2.18	0.73
2:B:318:ILE:HG21	2:B:346:THR:OG1	1.87	0.73
4:M:43:GLU:C	4:M:45:SER:N	2.44	0.73
2:B:63:MET:CG	2:B:100:LEU:HB3	2.18	0.73
2:B:73:ASP:HA	4:M:19:LEU:HD22	0.88	0.73
2:B:249:ILE:HG12	2:B:306:LEU:CD2	2.19	0.73
2:B:375:LEU:HD12	2:B:404:ASN:ND2	1.82	0.73
3:S:89:VAL:HG11	3:S:98:ILE:HG13	1.68	0.73
1:A:137:ASN:C	1:A:139:ASP:H	1.79	0.73
1:A:536:MET:CB	1:A:551:LEU:HD11	2.18	0.73
2:B:215:TYR:CE2	2:B:233:TYR:CE2	2.76	0.73
2:B:259:TYR:CD1	2:B:261:PRO:CG	2.61	0.73
2:B:347:VAL:HG21	2:B:381:PHE:HE1	1.54	0.73
2:B:375:LEU:HD22	2:B:404:ASN:HB2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:403:ILE:CD1	2:B:439:CYS:HB3	2.16	0.73
3:S:73:ILE:HG21	3:S:88:ILE:CG2	2.17	0.73
4:M:224:VAL:O	4:M:480:GLN:N	2.20	0.73
4:M:246:VAL:O	4:M:297:PHE:CE1	2.42	0.73
4:M:362:PHE:CE1	4:M:374:TYR:CE2	2.77	0.73
4:M:373:ALA:HB3	4:M:418:GLU:O	1.88	0.73
1:A:88:ASN:HB3	1:A:120:ILE:HD12	1.71	0.73
1:A:92:LEU:O	1:A:95:MET:N	2.22	0.73
1:A:395:PHE:CG	1:A:428:MET:HE2	2.24	0.73
1:A:420:ILE:HG23	1:A:424:TYR:HB2	1.71	0.73
1:A:606:PHE:HZ	1:A:633:PHE:CD1	2.05	0.73
2:B:29:LYS:HB3	2:B:58:GLU:CD	2.14	0.73
2:B:109:ALA:O	2:B:111:ASN:N	2.22	0.73
2:B:178:ILE:HD11	2:B:215:TYR:HA	1.71	0.73
2:B:253:ILE:HG12	2:B:324:ALA:CB	2.19	0.73
3:S:16:LEU:CG	3:S:125:TRP:HE1	2.02	0.73
4:M:106:LYS:NZ	4:M:296:LYS:HE3	2.03	0.73
1:A:95:MET:C	1:A:127:LEU:HD21	2.14	0.72
1:A:186:PHE:HB2	1:A:221:VAL:HG13	1.72	0.72
1:A:219:VAL:HG21	1:A:256:LEU:HD21	1.70	0.72
1:A:409:VAL:HG11	3:S:42:ARG:HH12	1.50	0.72
2:B:25:VAL:HG23	2:B:32:GLU:CG	2.19	0.72
2:B:35:TYR:CE1	4:M:118:TYR:OH	2.42	0.72
4:M:104:PHE:HD1	4:M:104:PHE:H	1.37	0.72
4:M:215:TYR:O	4:M:246:VAL:HG13	1.89	0.72
4:M:262:THR:HG22	4:M:265:ASN:N	2.04	0.72
2:B:129:ASP:O	2:B:135:ARG:HD3	1.88	0.72
2:B:328:LEU:CB	2:B:333:GLN:NE2	2.49	0.72
2:B:381:PHE:O	2:B:382:TYR:C	2.26	0.72
1:A:488:ARG:HD2	1:A:522:PHE:CE2	2.24	0.72
2:B:208:ILE:HD13	2:B:236:ILE:CG2	2.18	0.72
2:B:249:ILE:CD1	2:B:321:CYS:SG	2.77	0.72
4:M:344:ILE:HG22	4:M:347:PHE:CB	1.97	0.72
4:M:347:PHE:CE1	4:M:350:VAL:HB	2.23	0.72
4:M:347:PHE:CD1	4:M:350:VAL:HG11	2.22	0.72
3:S:71:GLU:C	3:S:73:ILE:H	1.96	0.72
4:M:19:LEU:HD21	4:M:24:ALA:HB3	1.70	0.72
1:A:405:THR:O	2:B:7:ARG:CZ	2.38	0.72
2:B:196:LEU:HB3	2:B:215:TYR:OH	1.88	0.72
2:B:363:ILE:HG22	2:B:398:ILE:HG12	1.70	0.72
2:B:494:ALA:HB2	2:B:515:PHE:CZ	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:549:LEU:CD1	2:B:595:VAL:HG12	2.20	0.72
3:S:71:GLU:C	3:S:73:ILE:N	2.47	0.72
4:M:53:HIS:HA	4:M:66:PHE:HB2	1.70	0.72
1:A:186:PHE:CD2	1:A:224:GLU:HB3	2.23	0.72
2:B:106:LEU:CD1	2:B:144:ASP:C	2.62	0.72
2:B:158:VAL:HG13	2:B:177:ILE:HG13	1.71	0.72
2:B:433:VAL:C	2:B:474:VAL:HG21	2.14	0.72
2:B:512:VAL:HG22	2:B:533:LEU:CD2	2.19	0.72
2:B:540:GLU:OE1	2:B:548:ILE:CD1	2.37	0.72
4:M:220:GLU:CD	4:M:222:PHE:CE1	2.67	0.72
4:M:220:GLU:OE2	4:M:439:TYR:HD2	1.65	0.72
4:M:235:LEU:HD11	4:M:306:LEU:CB	2.19	0.72
4:M:242:GLY:CA	4:M:474:THR:HG21	2.20	0.72
4:M:352:GLN:HG3	4:M:440:ILE:HB	1.70	0.72
1:A:316:LEU:HD13	1:A:348:PHE:CG	2.24	0.72
1:A:407:SER:N	3:S:64:ASN:ND2	2.38	0.72
1:A:462:GLN:O	1:A:463:ASP:C	2.28	0.72
2:B:13:ASP:OD1	4:M:15:ILE:N	2.22	0.72
2:B:25:VAL:HA	2:B:28:SER:H	1.55	0.72
2:B:260:LEU:CA	2:B:293:VAL:HG21	2.18	0.72
2:B:347:VAL:HG21	2:B:381:PHE:CZ	2.25	0.72
2:B:397:GLN:HG2	2:B:431:MET:SD	2.29	0.72
2:B:599:ALA:C	2:B:601:TYR:H	1.98	0.72
4:M:43:GLU:O	4:M:44:ASP:C	2.31	0.72
1:A:503:ASN:HB3	4:M:60:LEU:N	2.04	0.72
1:A:513:ARG:HG3	1:A:547:VAL:HG22	1.69	0.72
2:B:186:ASN:C	2:B:188:TYR:N	2.37	0.72
2:B:294:VAL:O	2:B:299:LEU:HD12	1.90	0.72
4:M:218:LEU:CA	4:M:472:TYR:CD2	2.64	0.72
4:M:302:TYR:CE1	4:M:445:SER:HB2	2.24	0.72
4:M:437:TYR:CD1	4:M:437:TYR:N	2.54	0.72
1:A:469:LEU:O	1:A:470:GLY:C	2.21	0.72
2:B:247:TYR:HD1	4:M:136:VAL:HG12	1.51	0.72
2:B:360:LEU:CD2	2:B:395:LYS:HD3	2.20	0.72
2:B:549:LEU:HD21	2:B:611:ALA:N	2.04	0.72
4:M:244:VAL:HG13	4:M:472:TYR:CZ	2.25	0.72
4:M:343:ASN:HD22	4:M:343:ASN:N	1.87	0.72
4:M:433:VAL:HG12	4:M:481:VAL:HB	1.70	0.72
1:A:322:PHE:CD1	1:A:330:LEU:HD21	2.24	0.72
1:A:535:ILE:O	1:A:535:ILE:HG22	1.89	0.72
2:B:200:MET:CE	2:B:229:HIS:C	2.56	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:231:ARG:O	2:B:234:CYS:N	2.23	0.72
2:B:259:TYR:O	2:B:293:VAL:CG2	2.37	0.72
2:B:360:LEU:HD21	2:B:395:LYS:HD3	1.71	0.72
2:B:367:SER:OG	2:B:401:THR:HG21	1.89	0.72
2:B:415:LEU:CD1	2:B:436:LEU:CD2	2.68	0.72
1:A:585:PHE:HB3	1:A:600:SER:OG	1.89	0.71
2:B:193:LEU:C	2:B:195:ILE:H	1.98	0.71
2:B:313:SER:OG	4:M:269:ILE:C	2.33	0.71
2:B:512:VAL:CG1	2:B:533:LEU:CD1	2.36	0.71
2:B:559:ASP:O	2:B:562:ASN:C	2.32	0.71
4:M:223:HIS:CG	4:M:476:THR:OG1	2.43	0.71
1:A:213:SER:CB	3:S:142:ILE:CB	2.67	0.71
2:B:82:TYR:O	2:B:83:PHE:C	2.21	0.71
3:S:112:CYS:HB2	3:S:113:PHE:CD1	2.25	0.71
4:M:67:SER:O	4:M:77:LEU:HA	1.91	0.71
4:M:99:ILE:O	4:M:99:ILE:CG2	2.38	0.71
4:M:421:GLY:O	4:M:422:PRO:C	2.22	0.71
4:M:443:SER:OG	4:M:448:TYR:N	2.23	0.71
2:B:10:SER:C	2:B:40:GLN:HE22	1.98	0.71
2:B:143:SER:CB	2:B:179:LYS:CD	2.67	0.71
2:B:219:TYR:O	2:B:223:LEU:HD21	1.91	0.71
4:M:279:ASN:HB2	4:M:283:PHE:CD2	2.24	0.71
4:M:449:VAL:HG11	4:M:452:ILE:HG13	1.69	0.71
1:A:405:THR:HB	2:B:7:ARG:HE	1.54	0.71
2:B:73:ASP:H	4:M:19:LEU:CB	1.98	0.71
4:M:437:TYR:CD1	4:M:479:PHE:CE2	2.78	0.71
1:A:411:GLU:CD	3:S:46:PHE:CZ	2.68	0.71
2:B:80:GLN:HA	2:B:108:PHE:CE2	2.26	0.71
2:B:106:LEU:HD21	4:M:130:GLU:HA	1.72	0.71
2:B:347:VAL:CG2	2:B:381:PHE:CE1	2.73	0.71
2:B:444:THR:O	2:B:445:SER:C	2.19	0.71
3:S:57:LEU:O	3:S:59:LEU:HA	1.90	0.71
4:M:6:TYR:CD1	4:M:77:LEU:HD23	2.26	0.71
4:M:435:LEU:HB2	4:M:437:TYR:CE1	2.25	0.71
1:A:225:LEU:HD12	1:A:233:PHE:CZ	2.26	0.71
1:A:266:VAL:O	1:A:267:GLU:HB3	1.91	0.71
1:A:292:TYR:CD1	1:A:292:TYR:O	2.44	0.71
1:A:562:TRP:O	1:A:565:ASN:N	2.23	0.71
1:A:573:GLU:O	1:A:575:LYS:N	2.23	0.71
2:B:24:ALA:HB3	2:B:32:GLU:CG	2.07	0.71
2:B:278:PRO:HB3	2:B:288:TYR:C	2.14	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:367:SER:CB	2:B:401:THR:CB	2.68	0.71
2:B:379:LYS:CE	2:B:410:GLU:HG3	2.02	0.71
3:S:4:ALA:CB	3:S:19:PHE:CD1	2.74	0.71
3:S:55:PRO:O	3:S:58:LEU:CB	2.39	0.71
4:M:244:VAL:HA	4:M:472:TYR:CG	2.18	0.71
1:A:136:GLY:O	1:A:137:ASN:C	2.18	0.71
1:A:366:SER:HB3	3:S:67:GLU:OE1	1.90	0.71
1:A:503:ASN:CB	4:M:60:LEU:N	2.52	0.71
2:B:14:THR:HG21	2:B:40:GLN:CG	2.20	0.71
2:B:98:LYS:HZ1	2:B:134:LEU:HD22	1.55	0.71
2:B:108:PHE:O	2:B:111:ASN:N	2.15	0.71
2:B:155:LEU:HB2	2:B:188:TYR:CD1	2.26	0.71
2:B:181:TYR:CZ	2:B:185:LYS:HE2	2.26	0.71
2:B:347:VAL:HG22	2:B:359:LEU:CG	2.20	0.71
2:B:472:VAL:CG1	2:B:510:GLY:CA	2.68	0.71
2:B:574:ASN:C	2:B:576:GLN:H	1.98	0.71
3:S:75:ILE:CG2	3:S:77:TYR:CE1	2.74	0.71
4:M:16:PHE:CZ	4:M:18:TYR:HB2	2.24	0.71
4:M:133:GLU:O	4:M:134:PRO:C	2.25	0.71
1:A:379:VAL:CG1	1:A:441:TYR:OH	2.38	0.71
1:A:638:LEU:CD1	2:B:557:SER:CA	2.68	0.71
2:B:226:LEU:CD2	2:B:255:TYR:HD1	1.83	0.71
2:B:545:ARG:HD2	2:B:602:ASP:OD2	1.91	0.71
3:S:57:LEU:CA	3:S:58:LEU:O	2.30	0.71
4:M:78:ALA:HB1	4:M:89:CYS:SG	2.30	0.71
4:M:244:VAL:O	4:M:299:LEU:HB3	1.90	0.71
4:M:275:CYS:O	4:M:291:ILE:HG22	1.91	0.71
4:M:347:PHE:CE2	4:M:350:VAL:O	2.43	0.71
1:A:342:GLY:O	1:A:343:LYS:C	2.31	0.71
1:A:384:LEU:HG	1:A:385:LYS:N	2.05	0.71
1:A:578:LEU:HD23	1:A:607:LEU:CD2	2.19	0.71
2:B:1:MET:CG	4:M:39:PRO:CG	2.68	0.71
2:B:212:VAL:CG2	2:B:233:TYR:CD1	2.74	0.71
2:B:216:LYS:NZ	2:B:250:GLU:OE2	2.23	0.71
4:M:378:ILE:O	4:M:413:GLY:CA	2.39	0.71
1:A:196:LEU:O	1:A:197:ARG:C	2.25	0.71
1:A:196:LEU:HD22	1:A:196:LEU:C	2.16	0.71
2:B:73:ASP:H	4:M:19:LEU:HB3	1.55	0.71
2:B:336:ASN:HB3	2:B:339:PHE:CD2	2.25	0.71
2:B:396:ILE:HG12	2:B:418:TYR:HE2	1.56	0.71
3:S:89:VAL:HG11	3:S:98:ILE:HG21	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:244:VAL:CG1	4:M:472:TYR:CE2	2.74	0.71
2:B:278:PRO:CB	2:B:288:TYR:C	2.63	0.70
2:B:337:THR:OG1	2:B:373:LEU:CD1	2.27	0.70
2:B:566:ALA:CA	2:B:574:ASN:HB3	2.19	0.70
4:M:74:TYR:HB2	4:M:114:ILE:CD1	2.20	0.70
1:A:71:VAL:HG12	1:A:105:VAL:HG12	1.71	0.70
1:A:206:LYS:HE2	1:A:206:LYS:HA	1.73	0.70
1:A:316:LEU:HD13	1:A:348:PHE:CD2	2.26	0.70
2:B:80:GLN:N	2:B:108:PHE:CE2	2.57	0.70
2:B:107:ARG:NH1	4:M:20:LEU:CB	2.51	0.70
2:B:382:TYR:OH	2:B:410:GLU:CB	2.38	0.70
2:B:398:ILE:O	2:B:400:SER:N	2.24	0.70
2:B:457:HIS:HA	2:B:461:HIS:CD2	2.25	0.70
2:B:475:ILE:CG2	2:B:489:ILE:CG2	2.69	0.70
2:B:512:VAL:HG13	2:B:533:LEU:HD13	0.72	0.70
2:B:513:TRP:NE1	2:B:517:GLU:CG	2.53	0.70
2:B:559:ASP:O	2:B:562:ASN:HB2	1.91	0.70
2:B:567:GLN:HA	2:B:569:THR:OG1	1.90	0.70
3:S:8:PHE:CZ	3:S:86:THR:OG1	2.42	0.70
4:M:217:ASP:CG	4:M:471:LYS:HA	2.16	0.70
4:M:242:GLY:CA	4:M:444:ALA:HB2	2.20	0.70
1:A:254:ILE:HD13	3:S:96:LEU:HB2	1.72	0.70
1:A:277:LYS:HG3	1:A:277:LYS:O	1.91	0.70
2:B:136:CYS:SG	2:B:168:MET:C	2.75	0.70
2:B:169:VAL:O	2:B:173:VAL:HG23	1.90	0.70
4:M:356:LEU:HD21	4:M:358:ILE:CG1	2.20	0.70
1:A:121:LEU:CD1	1:A:153:ILE:CG2	2.69	0.70
1:A:179:LYS:HZ3	3:S:142:ILE:N	1.86	0.70
2:B:178:ILE:HG12	2:B:214:ALA:CB	2.11	0.70
2:B:230:PHE:CD1	2:B:298:ASP:CB	2.73	0.70
2:B:472:VAL:HG12	2:B:510:GLY:HA3	1.73	0.70
4:M:334:ASP:O	4:M:416:GLU:HA	1.91	0.70
1:A:316:LEU:CD1	1:A:348:PHE:CE2	2.74	0.70
1:A:581:LEU:CD1	1:A:585:PHE:CZ	2.73	0.70
2:B:100:LEU:CD2	4:M:123:LEU:HD22	2.19	0.70
2:B:399:LEU:HD22	2:B:411:ILE:HG23	1.74	0.70
1:A:384:LEU:CG	1:A:385:LYS:N	2.54	0.70
1:A:395:PHE:CD2	1:A:428:MET:HE2	2.25	0.70
1:A:558:VAL:HG11	1:A:562:TRP:CZ2	2.26	0.70
1:A:585:PHE:CB	1:A:600:SER:OG	2.40	0.70
1:A:606:PHE:CE1	1:A:633:PHE:CB	2.59	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:53:SER:CB	2:B:58:GLU:OE1	2.40	0.70
2:B:73:ASP:N	4:M:19:LEU:CG	2.54	0.70
2:B:103:LEU:HD13	4:M:123:LEU:HD12	1.71	0.70
2:B:219:TYR:HE2	2:B:226:LEU:CD1	1.74	0.70
2:B:371:GLN:HG2	2:B:401:THR:HB	1.72	0.70
4:M:78:ALA:HB3	4:M:89:CYS:SG	2.31	0.70
4:M:243:ILE:H	4:M:474:THR:HG21	1.56	0.70
2:B:251:LEU:C	2:B:253:ILE:H	1.99	0.70
2:B:337:THR:HG1	2:B:373:LEU:HD13	1.54	0.70
4:M:106:LYS:O	4:M:108:LYS:N	2.24	0.70
4:M:215:TYR:HB2	4:M:467:TYR:O	1.90	0.70
1:A:370:LYS:O	1:A:374:LEU:HD13	1.91	0.70
1:A:506:LYS:O	1:A:507:GLN:CB	2.39	0.70
2:B:9:ALA:C	4:M:14:LEU:HB2	2.16	0.70
2:B:252:LEU:CB	2:B:302:PHE:CD1	2.74	0.70
4:M:46:SER:O	4:M:47:SER:C	2.19	0.70
4:M:48:ASP:CA	4:M:70:ASN:HD22	2.03	0.70
4:M:220:GLU:CD	4:M:222:PHE:CZ	2.70	0.70
4:M:317:MET:HB2	4:M:322:LEU:N	2.07	0.70
1:A:213:SER:OG	3:S:142:ILE:HB	1.91	0.70
1:A:373:GLU:CG	1:A:427:LYS:HE2	2.21	0.70
2:B:29:LYS:HA	2:B:30:LEU:HD23	1.74	0.70
2:B:50:LEU:HD23	2:B:62:ALA:CA	2.22	0.70
2:B:245:GLN:OE1	2:B:309:LEU:CD1	2.28	0.70
2:B:337:THR:CA	2:B:373:LEU:HD13	2.08	0.70
3:S:8:PHE:CG	3:S:36:TYR:HE1	2.09	0.70
4:M:338:PHE:CD1	4:M:415:ILE:HG13	2.27	0.70
1:A:506:LYS:CE	4:M:82:LYS:CD	2.70	0.70
2:B:322:CYS:SG	2:B:366:LEU:CG	2.79	0.70
2:B:403:ILE:HG21	2:B:439:CYS:HB3	1.72	0.70
4:M:443:SER:OG	4:M:448:TYR:HA	1.92	0.70
1:A:83:ASP:CG	1:A:85:ALA:H	1.99	0.69
1:A:462:GLN:OE1	4:M:60:LEU:N	2.25	0.69
2:B:73:ASP:OD1	4:M:19:LEU:HD11	1.88	0.69
3:S:32:LEU:C	3:S:35:VAL:HG22	2.14	0.69
3:S:65:ASN:O	3:S:67:GLU:HG3	1.91	0.69
1:A:186:PHE:CZ	1:A:224:GLU:CG	2.64	0.69
1:A:393:LYS:NZ	1:A:397:ASP:OD2	2.25	0.69
1:A:461:CYS:O	1:A:462:GLN:C	2.22	0.69
2:B:472:VAL:CG1	2:B:511:ILE:N	2.55	0.69
2:B:513:TRP:HA	2:B:551:LEU:CD1	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:100:LEU:HD21	4:M:121:ILE:HG12	1.73	0.69
4:M:241:HIS:O	4:M:474:THR:CG2	2.40	0.69
4:M:243:ILE:HD13	4:M:301:GLU:CB	2.21	0.69
1:A:329:ASN:N	3:S:50:PHE:HE2	1.87	0.69
1:A:391:LEU:O	1:A:392:MET:O	2.08	0.69
2:B:87:VAL:O	2:B:88:LYS:C	2.33	0.69
2:B:537:PHE:CE2	2:B:545:ARG:CB	2.76	0.69
1:A:107:TYR:CE1	1:A:128:LEU:CD2	2.75	0.69
1:A:67:LYS:O	1:A:71:VAL:HG23	1.92	0.69
1:A:323:CYS:CB	1:A:355:LEU:HD21	2.22	0.69
1:A:402:ILE:HG12	1:A:406:GLY:HA2	1.74	0.69
2:B:102:HIS:CE1	2:B:138:ALA:HA	2.27	0.69
2:B:275:ARG:H	2:B:294:VAL:HG13	1.57	0.69
2:B:290:SER:C	2:B:292:GLU:N	2.41	0.69
2:B:468:LEU:HD13	2:B:503:LEU:HD21	1.74	0.69
2:B:513:TRP:CD2	2:B:551:LEU:HD21	2.28	0.69
2:B:566:ALA:CA	2:B:574:ASN:CG	2.64	0.69
4:M:108:LYS:O	4:M:110:SER:N	2.25	0.69
4:M:350:VAL:CB	4:M:442:GLN:HG2	2.23	0.69
1:A:370:LYS:HE2	1:A:370:LYS:HA	1.74	0.69
2:B:479:VAL:HG22	2:B:486:HIS:CG	2.27	0.69
2:B:537:PHE:C	2:B:537:PHE:CD1	2.71	0.69
4:M:222:PHE:HB2	4:M:479:PHE:CZ	2.27	0.69
4:M:243:ILE:HG22	4:M:472:TYR:HB3	1.75	0.69
4:M:290:PHE:CZ	4:M:297:PHE:CZ	2.80	0.69
1:A:332:TYR:CE2	1:A:336:ILE:HD11	2.28	0.69
2:B:154:ILE:O	2:B:158:VAL:HG23	1.93	0.69
2:B:234:CYS:HB3	2:B:301:LEU:HB3	1.75	0.69
2:B:472:VAL:CG1	2:B:510:GLY:C	2.66	0.69
2:B:518:ILE:CD1	2:B:518:ILE:O	2.40	0.69
3:S:127:THR:CG2	3:S:153:VAL:CG1	2.70	0.69
4:M:65:TYR:CZ	4:M:66:PHE:O	2.45	0.69
4:M:223:HIS:HA	4:M:479:PHE:CZ	2.26	0.69
2:B:116:THR:CG2	2:B:150:LEU:HD11	2.23	0.69
2:B:189:HIS:NE2	2:B:222:HIS:CB	2.55	0.69
2:B:447:GLU:OE1	2:B:485:LYS:CG	2.40	0.69
3:S:135:ILE:HG22	3:S:141:VAL:HG22	1.75	0.69
4:M:327:PHE:HE1	4:M:336:ASP:OD2	1.73	0.69
4:M:379:LEU:HD13	4:M:397:TRP:HE1	1.58	0.69
1:A:121:LEU:HD13	1:A:155:THR:CG2	2.23	0.69
2:B:73:ASP:HB3	4:M:25:PRO:C	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:142:LEU:O	2:B:143:SER:C	2.28	0.69
2:B:179:LYS:HE2	4:M:131:ALA:O	1.91	0.69
2:B:318:ILE:CD1	2:B:346:THR:CG2	2.70	0.69
4:M:69:ILE:O	4:M:75:TRP:CA	2.39	0.69
4:M:99:ILE:O	4:M:99:ILE:HG22	1.92	0.69
1:A:266:VAL:O	1:A:267:GLU:HB2	1.93	0.69
1:A:438:ALA:C	1:A:439:ASP:O	2.17	0.69
2:B:243:TRP:CH2	4:M:98:ARG:CZ	2.76	0.69
2:B:334:MET:O	2:B:373:LEU:CD2	2.41	0.69
2:B:400:SER:HB2	2:B:435:SER:HA	1.75	0.69
2:B:468:LEU:O	2:B:472:VAL:HG23	1.93	0.69
2:B:519:ALA:O	2:B:523:PHE:N	2.26	0.69
4:M:269:ILE:C	4:M:302:TYR:CD2	2.71	0.69
1:A:111:SER:HB2	1:A:152:THR:HG1	1.57	0.68
1:A:263:LEU:O	1:A:266:VAL:O	2.11	0.68
2:B:38:TYR:HH	2:B:46:GLN:HG3	1.58	0.68
2:B:260:LEU:HD22	2:B:291:TYR:CZ	2.28	0.68
2:B:396:ILE:HD11	2:B:418:TYR:CZ	2.28	0.68
1:A:403:LEU:O	1:A:404:GLN:C	2.27	0.68
1:A:555:LEU:HD13	1:A:581:LEU:CD1	2.22	0.68
2:B:100:LEU:CD2	4:M:123:LEU:CD2	2.71	0.68
2:B:139:LEU:CD1	2:B:176:ALA:CB	2.71	0.68
2:B:253:ILE:CG1	2:B:324:ALA:HA	2.22	0.68
2:B:346:THR:O	2:B:349:MET:N	2.25	0.68
2:B:570:GLY:C	2:B:571:SER:O	2.19	0.68
3:S:53:THR:CB	3:S:69:ASN:HB2	2.22	0.68
4:M:275:CYS:SG	4:M:293:PRO:CB	2.76	0.68
4:M:374:TYR:HE1	4:M:393:GLY:HA2	1.58	0.68
1:A:225:LEU:HD12	1:A:233:PHE:CE1	2.29	0.68
1:A:609:LEU:HD13	1:A:609:LEU:C	2.18	0.68
2:B:25:VAL:CG2	2:B:32:GLU:HG3	2.16	0.68
2:B:97:VAL:HG12	2:B:101:ILE:CD1	2.23	0.68
2:B:310:ILE:CB	2:B:342:ALA:HB1	2.22	0.68
2:B:418:TYR:CD1	2:B:424:PHE:CD2	2.81	0.68
2:B:537:PHE:HB3	2:B:598:LEU:HD13	1.75	0.68
3:S:87:PHE:CD1	3:S:102:ILE:HG12	2.27	0.68
4:M:44:ASP:C	4:M:47:SER:H	2.02	0.68
4:M:443:SER:HB3	4:M:447:ILE:HG12	1.74	0.68
1:A:117:ASP:CG	1:A:120:ILE:HG12	2.19	0.68
1:A:418:ILE:HG12	1:A:418:ILE:O	1.94	0.68
2:B:17:VAL:HG23	2:B:36:THR:CA	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:231:ARG:CD	2:B:297:PRO:HB2	2.24	0.68
2:B:398:ILE:C	2:B:400:SER:N	2.50	0.68
2:B:566:ALA:N	2:B:574:ASN:ND2	2.33	0.68
3:S:4:ALA:HB1	3:S:19:PHE:CD1	2.28	0.68
1:A:103:LYS:O	1:A:104:ARG:C	2.29	0.68
1:A:117:ASP:OD2	1:A:120:ILE:HG12	1.92	0.68
1:A:237:SER:N	1:A:238:PRO:HD2	2.08	0.68
2:B:80:GLN:HG3	2:B:108:PHE:CZ	2.27	0.68
2:B:280:PRO:HG2	2:B:283:TYR:CG	2.28	0.68
2:B:293:VAL:HA	2:B:299:LEU:HG	1.75	0.68
2:B:340:ILE:CG2	2:B:374:PHE:HA	2.24	0.68
2:B:378:THR:HG23	2:B:379:LYS:H	1.56	0.68
2:B:550:VAL:O	2:B:553:ALA:HB3	1.93	0.68
4:M:220:GLU:OE2	4:M:350:VAL:HG11	1.93	0.68
2:B:106:LEU:HD11	2:B:144:ASP:O	1.86	0.68
2:B:107:ARG:NH2	4:M:20:LEU:HD21	1.86	0.68
2:B:132:SER:HB2	2:B:169:VAL:HG23	1.74	0.68
2:B:193:LEU:O	2:B:195:ILE:N	2.26	0.68
4:M:65:TYR:CG	4:M:66:PHE:N	2.60	0.68
4:M:288:ILE:CD1	4:M:300:LEU:CD2	2.69	0.68
4:M:364:VAL:C	4:M:367:ALA:O	2.36	0.68
1:A:64:LEU:HG	1:A:102:GLN:HE22	1.56	0.68
1:A:370:LYS:O	1:A:374:LEU:CD1	2.42	0.68
1:A:398:GLU:HA	1:A:418:ILE:HG13	1.76	0.68
1:A:588:LEU:O	1:A:589:SER:C	2.26	0.68
2:B:73:ASP:CB	4:M:24:ALA:HB1	2.24	0.68
2:B:396:ILE:HG23	2:B:432:ALA:HA	1.66	0.68
2:B:580:TYR:HB3	2:B:582:ASP:OD2	1.93	0.68
3:S:54:PRO:CD	3:S:57:LEU:HB2	2.24	0.68
4:M:114:ILE:O	4:M:116:ASN:N	2.27	0.68
4:M:235:LEU:HD11	4:M:306:LEU:HD13	1.74	0.68
4:M:246:VAL:HB	4:M:297:PHE:CZ	2.29	0.68
1:A:101:GLN:HE22	3:S:167:ILE:HD11	1.59	0.68
1:A:450:TYR:HD2	1:A:480:LEU:HG	1.58	0.68
1:A:503:ASN:CG	4:M:59:ASP:O	2.37	0.68
1:A:609:LEU:HD21	1:A:628:VAL:HG21	1.76	0.68
2:B:73:ASP:OD1	4:M:19:LEU:CD2	2.42	0.68
2:B:371:GLN:C	2:B:373:LEU:H	2.01	0.68
2:B:457:HIS:O	2:B:458:MET:C	2.30	0.68
2:B:513:TRP:CE3	2:B:551:LEU:HD21	2.29	0.68
4:M:51:LEU:CB	4:M:68:VAL:CG2	2.70	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:55:MET:O	4:M:56:VAL:C	2.24	0.68
4:M:290:PHE:CZ	4:M:297:PHE:CE1	2.81	0.68
4:M:306:LEU:CD2	4:M:317:MET:HE2	2.24	0.68
1:A:186:PHE:CE2	1:A:224:GLU:HB3	2.23	0.68
1:A:438:ALA:O	1:A:441:TYR:CD1	2.47	0.68
2:B:28:SER:CA	2:B:30:LEU:O	2.40	0.68
2:B:181:TYR:CD1	2:B:222:HIS:HD2	2.12	0.68
2:B:230:PHE:CD1	2:B:298:ASP:CA	2.76	0.68
2:B:363:ILE:HD12	2:B:374:PHE:CE1	2.29	0.68
2:B:383:VAL:HG23	2:B:395:LYS:HG3	1.75	0.68
3:S:130:SER:HB2	3:S:156:LEU:CD1	2.23	0.68
2:B:387:ASP:HB3	2:B:388:PRO:CD	2.24	0.68
4:M:69:ILE:HG21	4:M:97:ASP:OD2	1.94	0.68
4:M:224:VAL:N	4:M:479:PHE:HA	2.09	0.68
4:M:240:ILE:HG21	4:M:444:ALA:O	1.93	0.68
1:A:515:CYS:O	1:A:519:LEU:HG	1.94	0.67
1:A:516:ILE:HG23	1:A:554:ALA:HB3	1.75	0.67
2:B:340:ILE:CB	2:B:373:LEU:HG	2.23	0.67
4:M:316:ARG:CG	4:M:322:LEU:HD13	2.24	0.67
4:M:356:LEU:C	4:M:356:LEU:HD23	2.19	0.67
1:A:429:VAL:CG1	1:A:473:ILE:HG12	2.23	0.67
1:A:488:ARG:CD	1:A:522:PHE:CE2	2.77	0.67
1:A:638:LEU:HD23	2:B:561:ASP:OD2	1.93	0.67
2:B:14:THR:HA	2:B:17:VAL:CG2	2.25	0.67
2:B:17:VAL:CG2	2:B:35:TYR:CE2	2.54	0.67
2:B:396:ILE:HD13	2:B:432:ALA:N	2.08	0.67
2:B:534:ILE:C	2:B:536:ASN:N	2.48	0.67
3:S:74:GLN:NE2	3:S:95:GLU:OE2	2.27	0.67
4:M:284:SER:O	4:M:286:SER:N	2.27	0.67
1:A:233:PHE:C	1:A:235:GLN:N	2.46	0.67
1:A:436:CYS:SG	1:A:450:TYR:CE2	2.85	0.67
1:A:480:LEU:C	1:A:480:LEU:HD13	2.19	0.67
1:A:530:ASN:O	1:A:534:LYS:O	2.12	0.67
2:B:14:THR:CA	2:B:17:VAL:HG22	2.24	0.67
2:B:34:SER:O	2:B:42:ILE:HD12	1.94	0.67
2:B:37:TYR:CD2	2:B:38:TYR:CD1	2.81	0.67
2:B:72:SER:HB3	4:M:17:GLN:CD	2.17	0.67
2:B:186:ASN:C	2:B:188:TYR:H	2.00	0.67
2:B:230:PHE:HD1	2:B:298:ASP:CA	2.08	0.67
2:B:271:GLU:O	2:B:272:GLY:C	2.29	0.67
2:B:296:ASP:OD1	2:B:297:PRO:N	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:405:THR:O	4:M:407:THR:N	2.27	0.67
1:A:224:GLU:O	1:A:225:LEU:C	2.30	0.67
1:A:605:GLU:HG3	1:A:632:PHE:CD2	2.28	0.67
2:B:596:LEU:CD1	2:B:611:ALA:HB1	2.24	0.67
3:S:70:ASN:O	3:S:71:GLU:C	2.35	0.67
3:S:80:TYR:OH	3:S:110:ASP:CG	2.36	0.67
1:A:424:TYR:HD1	3:S:63:ASN:HD21	1.36	0.67
2:B:340:ILE:CG1	2:B:373:LEU:HG	2.25	0.67
2:B:596:LEU:HD13	2:B:611:ALA:C	2.20	0.67
4:M:331:LEU:HD12	4:M:331:LEU:O	1.93	0.67
1:A:628:VAL:O	1:A:631:SER:N	2.28	0.67
2:B:116:THR:O	2:B:120:ILE:HG12	1.93	0.67
2:B:184:GLY:O	2:B:188:TYR:CD2	2.39	0.67
2:B:348:THR:HB	4:M:305:ASP:OD2	1.93	0.67
2:B:497:LEU:HD22	2:B:511:ILE:CG2	2.24	0.67
3:S:50:PHE:HA	3:S:77:TYR:HD1	1.60	0.67
4:M:126:ASN:O	4:M:129:VAL:N	2.22	0.67
4:M:374:TYR:HB3	4:M:417:TYR:HD1	1.58	0.67
1:A:88:ASN:HB3	1:A:120:ILE:CG2	2.25	0.67
1:A:207:LEU:O	1:A:243:ILE:HD11	1.93	0.67
1:A:533:ILE:CG1	1:A:562:TRP:CH2	2.78	0.67
2:B:106:LEU:HB3	4:M:130:GLU:CG	2.25	0.67
2:B:127:LEU:HD13	2:B:157:THR:CG2	2.17	0.67
2:B:193:LEU:HD21	2:B:225:LEU:CB	2.10	0.67
2:B:266:VAL:HA	2:B:289:PRO:HB2	1.75	0.67
2:B:341:GLU:HA	2:B:377:TYR:CD1	2.28	0.67
2:B:556:LEU:HB3	2:B:588:ILE:CD1	2.24	0.67
3:S:4:ALA:CB	3:S:19:PHE:HD1	2.05	0.67
1:A:397:ASP:O	1:A:418:ILE:CG1	2.43	0.67
1:A:581:LEU:CG	1:A:607:LEU:HD11	2.25	0.67
2:B:17:VAL:HG23	2:B:36:THR:N	2.10	0.67
4:M:48:ASP:HA	4:M:70:ASN:ND2	2.09	0.67
4:M:121:ILE:CG2	4:M:125:PHE:CE1	2.78	0.67
4:M:472:TYR:CD1	4:M:472:TYR:N	2.57	0.67
1:A:179:LYS:HE3	3:S:140:MET:CG	2.24	0.67
1:A:261:THR:HG1	1:A:297:CYS:HG	1.21	0.67
1:A:503:ASN:OD1	4:M:60:LEU:CB	2.42	0.67
1:A:529:GLY:HA3	1:A:562:TRP:CZ2	2.30	0.67
1:A:638:LEU:CD2	2:B:561:ASP:N	2.38	0.67
2:B:106:LEU:CD2	4:M:131:ALA:N	2.57	0.67
2:B:226:LEU:CD2	2:B:255:TYR:CE1	2.61	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:513:TRP:CA	2:B:551:LEU:CD1	2.72	0.67
4:M:47:SER:HB2	4:M:50:TYR:CE1	2.29	0.67
4:M:219:LEU:HG	4:M:440:ILE:HG12	1.76	0.67
2:B:344:VAL:CG2	2:B:377:TYR:HB3	2.24	0.67
2:B:588:ILE:CG2	2:B:618:PHE:CE1	2.78	0.67
3:S:157:ASN:O	3:S:161:GLU:HG3	1.94	0.67
4:M:258:VAL:HG22	4:M:452:ILE:HG23	1.76	0.67
4:M:321:GLY:O	4:M:323:MET:N	2.29	0.67
1:A:99:LYS:HG2	1:A:101:GLN:N	2.09	0.66
1:A:460:LEU:HA	4:M:58:ARG:HH21	1.60	0.66
2:B:73:ASP:C	2:B:75:ASP:H	2.03	0.66
2:B:247:TYR:CE1	4:M:136:VAL:HG12	2.30	0.66
2:B:408:VAL:CG1	2:B:412:PHE:CE2	2.78	0.66
2:B:588:ILE:CG2	2:B:618:PHE:CZ	2.77	0.66
4:M:69:ILE:CD1	4:M:94:GLU:HA	2.24	0.66
4:M:244:VAL:N	4:M:300:LEU:O	2.22	0.66
4:M:245:ASP:OD1	4:M:297:PHE:C	2.38	0.66
4:M:351:SER:CB	4:M:440:ILE:O	2.42	0.66
1:A:244:LEU:CD1	1:A:281:LEU:CD1	2.73	0.66
2:B:34:SER:CB	2:B:65:ARG:CZ	2.71	0.66
2:B:67:ILE:O	4:M:18:TYR:CE1	2.46	0.66
2:B:106:LEU:CD2	2:B:144:ASP:HB3	2.16	0.66
2:B:276:SER:O	2:B:295:ASN:CG	2.37	0.66
2:B:314:ASN:ND2	4:M:271:SER:OG	2.27	0.66
2:B:340:ILE:CG1	2:B:373:LEU:CG	2.74	0.66
2:B:373:LEU:C	2:B:375:LEU:N	2.50	0.66
4:M:245:ASP:C	4:M:472:TYR:HE1	1.87	0.66
4:M:260:LEU:HD21	4:M:449:VAL:HG22	1.75	0.66
4:M:309:GLN:O	4:M:313:SER:N	2.26	0.66
1:A:570:LYS:CD	1:A:618:THR:HG22	2.25	0.66
2:B:73:ASP:C	2:B:75:ASP:N	2.53	0.66
2:B:310:ILE:CG2	2:B:318:ILE:HG23	2.23	0.66
2:B:344:VAL:HA	2:B:381:PHE:CZ	2.31	0.66
2:B:375:LEU:CD2	2:B:404:ASN:HB2	2.25	0.66
2:B:563:PHE:HD1	2:B:584:SER:CA	2.05	0.66
4:M:70:ASN:CG	4:M:75:TRP:CE2	2.72	0.66
4:M:376:ILE:CG2	4:M:379:LEU:HD11	2.26	0.66
4:M:376:ILE:HG21	4:M:379:LEU:CD1	2.25	0.66
1:A:147:LEU:HD22	1:A:166:LEU:CD2	2.26	0.66
2:B:382:TYR:OH	2:B:410:GLU:C	2.39	0.66
3:S:16:LEU:CD1	3:S:129:GLU:HG2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:55:PRO:O	3:S:58:LEU:HB3	1.94	0.66
4:M:51:LEU:HB2	4:M:68:VAL:HB	1.76	0.66
4:M:212:ASN:O	4:M:465:LYS:HB2	1.95	0.66
4:M:437:TYR:HB3	4:M:439:TYR:CE1	2.30	0.66
1:A:215:VAL:CG1	1:A:243:ILE:HG23	2.09	0.66
1:A:516:ILE:HG22	1:A:554:ALA:HB2	1.76	0.66
2:B:63:MET:HG2	2:B:100:LEU:CB	2.24	0.66
2:B:144:ASP:N	2:B:179:LYS:HD3	2.08	0.66
2:B:219:TYR:OH	2:B:226:LEU:CA	2.33	0.66
2:B:230:PHE:CZ	2:B:234:CYS:SG	2.87	0.66
2:B:392:SER:CB	2:B:424:PHE:HE1	2.08	0.66
2:B:397:GLN:CG	2:B:431:MET:SD	2.84	0.66
2:B:594:ALA:O	2:B:598:LEU:HG	1.94	0.66
3:S:8:PHE:CD2	3:S:36:TYR:CE1	2.84	0.66
3:S:135:ILE:O	3:S:141:VAL:HG22	1.95	0.66
4:M:213:GLU:O	4:M:248:SER:HA	1.95	0.66
4:M:243:ILE:HG13	4:M:473:LYS:O	1.95	0.66
4:M:247:ARG:HG3	4:M:470:ALA:HA	1.77	0.66
4:M:437:TYR:HD1	4:M:437:TYR:N	1.91	0.66
1:A:107:TYR:CE1	1:A:128:LEU:HD21	2.31	0.66
1:A:279:LEU:O	1:A:280:GLU:C	2.29	0.66
1:A:397:ASP:O	1:A:418:ILE:CD1	2.44	0.66
1:A:503:ASN:OD1	4:M:59:ASP:O	2.13	0.66
1:A:563:CYS:HA	1:A:566:PHE:HD2	1.61	0.66
2:B:17:VAL:CG1	2:B:35:TYR:CE2	2.75	0.66
2:B:193:LEU:C	2:B:195:ILE:N	2.51	0.66
2:B:313:SER:N	4:M:269:ILE:CD1	2.56	0.66
2:B:390:VAL:O	2:B:393:ILE:HB	1.95	0.66
2:B:396:ILE:HD11	2:B:418:TYR:OH	1.96	0.66
2:B:508:ARG:O	2:B:512:VAL:HG23	1.95	0.66
2:B:559:ASP:O	2:B:562:ASN:CA	2.44	0.66
2:B:589:SER:HA	2:B:592:TYR:CD2	2.31	0.66
4:M:224:VAL:HG22	4:M:306:LEU:CD1	2.25	0.66
4:M:257:ALA:HB3	4:M:453:ASP:OD1	1.96	0.66
4:M:379:LEU:CD2	4:M:411:LEU:HG	2.20	0.66
1:A:96:SER:N	1:A:127:LEU:HD21	2.11	0.66
1:A:225:LEU:HB2	1:A:233:PHE:CE2	2.28	0.66
1:A:273:LYS:O	1:A:276:PRO:HD2	1.96	0.66
1:A:567:GLN:O	1:A:568:GLU:C	2.35	0.66
2:B:72:SER:HA	4:M:17:GLN:CD	2.18	0.66
2:B:151:ALA:HA	2:B:180:LEU:CD1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:155:LEU:HG	2:B:188:TYR:HD1	1.59	0.66
2:B:344:VAL:CG1	2:B:381:PHE:HE2	2.06	0.66
2:B:458:MET:HA	2:B:463:LEU:HD12	1.78	0.66
2:B:559:ASP:HB2	2:B:563:PHE:CE2	2.31	0.66
3:S:118:GLU:O	3:S:122:ILE:HG13	1.95	0.66
4:M:5:PHE:HE2	4:M:20:LEU:CD1	2.09	0.66
4:M:224:VAL:HG23	4:M:479:PHE:CD2	2.30	0.66
4:M:347:PHE:HE1	4:M:439:TYR:CG	2.12	0.66
1:A:481:MET:SD	1:A:518:CYS:SG	2.94	0.66
2:B:13:ASP:O	2:B:17:VAL:CG1	2.43	0.66
2:B:234:CYS:SG	2:B:298:ASP:O	2.49	0.66
2:B:243:TRP:CZ3	4:M:98:ARG:NE	2.63	0.66
2:B:403:ILE:HD11	2:B:439:CYS:HA	1.49	0.66
2:B:559:ASP:HB3	2:B:563:PHE:CD2	2.31	0.66
3:S:38:LEU:HB3	3:S:51:LEU:CD1	2.26	0.66
4:M:220:GLU:O	4:M:439:TYR:N	2.19	0.66
4:M:222:PHE:HB2	4:M:479:PHE:HZ	1.60	0.66
2:B:180:LEU:HD23	2:B:192:LEU:HD21	1.78	0.66
2:B:197:LYS:CA	2:B:229:HIS:CD2	2.77	0.66
2:B:311:TYR:O	2:B:312:SER:C	2.28	0.66
2:B:549:LEU:CD1	2:B:595:VAL:CG1	2.74	0.66
3:S:16:LEU:HA	3:S:125:TRP:CZ2	2.31	0.66
4:M:120:ARG:O	4:M:124:ILE:CG1	2.44	0.66
4:M:16:PHE:HA	4:M:118:TYR:CE2	2.31	0.66
4:M:223:HIS:CE1	4:M:476:THR:H	2.14	0.66
4:M:436:GLU:HA	4:M:479:PHE:HE1	1.57	0.66
1:A:390:THR:O	1:A:394:GLN:HG2	1.96	0.65
2:B:120:ILE:HD12	2:B:142:LEU:CD2	2.26	0.65
2:B:139:LEU:HD23	2:B:173:VAL:CA	2.24	0.65
2:B:227:HIS:O	2:B:229:HIS:N	2.29	0.65
2:B:243:TRP:HH2	4:M:98:ARG:CZ	2.08	0.65
2:B:360:LEU:HB3	2:B:394:TRP:CB	2.25	0.65
2:B:398:ILE:CG2	2:B:402:LEU:CD1	2.69	0.65
2:B:408:VAL:HG11	2:B:446:TRP:CB	2.25	0.65
2:B:433:VAL:HG22	2:B:471:TYR:CE2	2.31	0.65
2:B:456:ASP:O	2:B:460:SER:HB2	1.96	0.65
4:M:56:VAL:N	4:M:64:LYS:HG3	2.09	0.65
4:M:114:ILE:C	4:M:116:ASN:H	2.01	0.65
4:M:253:ASN:HA	4:M:292:PRO:CG	2.26	0.65
4:M:320:ILE:O	4:M:322:LEU:N	2.29	0.65
4:M:350:VAL:HG13	4:M:442:GLN:HG2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:200:PHE:CE1	1:A:236:LEU:HD21	2.30	0.65
2:B:378:THR:CG2	2:B:379:LYS:N	2.59	0.65
2:B:549:LEU:HD12	2:B:595:VAL:HG11	1.78	0.65
3:S:89:VAL:CG1	3:S:98:ILE:HG21	2.26	0.65
4:M:247:ARG:N	4:M:470:ALA:HB2	2.10	0.65
4:M:304:VAL:CG1	4:M:445:SER:HA	2.25	0.65
4:M:351:SER:OG	4:M:441:GLY:O	2.10	0.65
1:A:251:TRP:CH2	3:S:97:ALA:C	2.74	0.65
1:A:300:LYS:C	1:A:302:ASN:N	2.34	0.65
2:B:141:ALA:HB1	2:B:145:MET:HE2	1.78	0.65
2:B:567:GLN:CA	2:B:569:THR:OG1	2.43	0.65
3:S:8:PHE:HB2	3:S:36:TYR:HE1	1.61	0.65
3:S:164:ASP:HA	3:S:167:ILE:HB	1.79	0.65
4:M:120:ARG:O	4:M:124:ILE:HG13	1.96	0.65
4:M:250:LEU:HD13	4:M:254:PRO:HG2	1.79	0.65
1:A:320:HIS:HB2	1:A:352:PHE:CE1	2.31	0.65
1:A:408:ILE:N	3:S:64:ASN:HD22	1.92	0.65
1:A:585:PHE:HA	1:A:600:SER:OG	1.95	0.65
2:B:251:LEU:C	2:B:253:ILE:N	2.54	0.65
2:B:307:ASN:ND2	2:B:338:LYS:HB3	2.11	0.65
2:B:403:ILE:HB	2:B:408:VAL:HG22	1.79	0.65
2:B:465:ALA:HB1	2:B:504:ALA:HB2	1.77	0.65
2:B:509:ALA:HB1	2:B:547:GLN:HG3	1.78	0.65
2:B:522:GLU:O	2:B:522:GLU:CG	2.33	0.65
2:B:564:LYS:HE3	2:B:621:GLY:O	1.96	0.65
3:S:137:GLN:C	3:S:140:MET:H	2.04	0.65
4:M:5:PHE:HA	4:M:77:LEU:O	1.97	0.65
4:M:219:LEU:HA	4:M:440:ILE:HA	1.77	0.65
4:M:317:MET:CB	4:M:322:LEU:H	2.08	0.65
1:A:68:THR:N	3:S:166:LYS:HD3	2.11	0.65
1:A:582:ILE:HG23	1:A:604:LEU:CG	2.19	0.65
2:B:147:MET:O	2:B:148:SER:C	2.30	0.65
2:B:252:LEU:HD12	2:B:302:PHE:CD1	2.30	0.65
4:M:71:LYS:CB	4:M:74:TYR:CZ	2.70	0.65
4:M:220:GLU:OE2	4:M:350:VAL:CG1	2.44	0.65
4:M:252:ASP:C	4:M:254:PRO:HD2	2.20	0.65
4:M:278:ILE:HG23	4:M:278:ILE:O	1.95	0.65
4:M:353:VAL:HA	4:M:439:TYR:HA	1.76	0.65
1:A:170:LEU:HD22	1:A:181:ALA:HB1	1.77	0.65
1:A:219:VAL:HG11	1:A:256:LEU:HD23	1.79	0.65
1:A:257:LEU:HD22	1:A:278:ILE:HG23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:516:ILE:CG2	1:A:554:ALA:CB	2.74	0.65
1:A:609:LEU:CD2	1:A:628:VAL:HG11	2.27	0.65
2:B:28:SER:HB3	2:B:61:ASP:OD2	1.96	0.65
2:B:37:TYR:CD2	2:B:38:TYR:HD1	2.13	0.65
3:S:39:ILE:HD11	3:S:77:TYR:CD2	2.32	0.65
4:M:69:ILE:CD1	4:M:94:GLU:CA	2.75	0.65
4:M:118:TYR:CD1	4:M:118:TYR:C	2.72	0.65
4:M:432:THR:HG23	4:M:432:THR:O	1.97	0.65
1:A:304:LEU:HD23	1:A:306:GLU:H	1.61	0.65
1:A:438:ALA:O	1:A:440:ASN:N	2.30	0.65
2:B:18:ILE:HG22	2:B:36:THR:C	1.90	0.65
2:B:72:SER:O	2:B:73:ASP:CB	2.43	0.65
2:B:73:ASP:N	4:M:19:LEU:HB2	2.04	0.65
2:B:223:LEU:CD1	2:B:258:GLN:HB2	2.17	0.65
2:B:540:GLU:OE1	2:B:548:ILE:HD11	1.96	0.65
4:M:121:ILE:HG22	4:M:125:PHE:CE1	2.31	0.65
4:M:222:PHE:CB	4:M:479:PHE:CZ	2.80	0.65
4:M:353:VAL:O	4:M:401:LYS:CA	2.42	0.65
1:A:422:GLU:HB2	3:S:62:GLU:CD	2.21	0.65
2:B:211:ALA:O	2:B:214:ALA:HB3	1.96	0.65
2:B:456:ASP:O	2:B:460:SER:CB	2.45	0.65
2:B:513:TRP:CA	2:B:551:LEU:HD13	2.27	0.65
2:B:513:TRP:HE1	2:B:517:GLU:HG3	1.62	0.65
4:M:219:LEU:HB2	4:M:472:TYR:C	2.16	0.65
1:A:137:ASN:HA	1:A:139:ASP:HB3	1.79	0.65
1:A:240:LEU:O	1:A:242:GLU:O	2.15	0.65
1:A:375:VAL:O	1:A:376:GLU:C	2.39	0.65
1:A:638:LEU:HD12	2:B:558:TYR:N	2.09	0.65
3:S:39:ILE:HG23	3:S:47:GLN:OE1	1.97	0.65
4:M:225:VAL:HG22	4:M:480:GLN:HB3	1.78	0.65
4:M:433:VAL:HG13	4:M:433:VAL:O	1.97	0.65
1:A:260:PHE:CD1	1:A:274:LEU:HG	2.31	0.65
1:A:462:GLN:HG2	4:M:59:ASP:OD1	1.97	0.65
1:A:496:ILE:HD11	1:A:532:LEU:HG	1.79	0.65
2:B:106:LEU:HD13	2:B:144:ASP:O	1.91	0.65
2:B:106:LEU:HD21	2:B:144:ASP:CG	2.21	0.65
2:B:120:ILE:HG21	2:B:150:LEU:HD22	1.79	0.65
2:B:486:HIS:CE1	2:B:518:ILE:CG1	2.79	0.65
4:M:15:ILE:HG22	4:M:114:ILE:HG22	1.79	0.65
4:M:100:LEU:O	4:M:103:TYR:O	2.14	0.65
4:M:443:SER:OG	4:M:448:TYR:CA	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:PHE:HD2	1:A:225:LEU:HD11	1.60	0.64
1:A:588:LEU:O	1:A:590:TYR:N	2.29	0.64
2:B:61:ASP:O	2:B:64:LYS:HB2	1.97	0.64
2:B:227:HIS:CE1	2:B:292:GLU:CG	2.80	0.64
3:S:75:ILE:HG21	3:S:77:TYR:CZ	2.32	0.64
4:M:257:ALA:HB3	4:M:453:ASP:CG	2.22	0.64
4:M:443:SER:HB3	4:M:447:ILE:CA	2.27	0.64
1:A:464:ILE:HG23	1:A:465:SER:HA	1.79	0.64
1:A:496:ILE:CD1	1:A:532:LEU:HG	2.27	0.64
2:B:178:ILE:CD1	2:B:214:ALA:C	2.71	0.64
2:B:253:ILE:HG23	2:B:327:GLN:HB2	1.78	0.64
2:B:253:ILE:CD1	2:B:324:ALA:HA	2.28	0.64
2:B:375:LEU:HB2	2:B:376:PRO:HD3	1.79	0.64
3:S:89:VAL:HG11	3:S:98:ILE:CD1	2.28	0.64
4:M:217:ASP:HB3	4:M:470:ALA:C	2.22	0.64
1:A:143:VAL:O	1:A:147:LEU:HG	1.96	0.64
1:A:529:GLY:CA	1:A:562:TRP:CZ2	2.80	0.64
2:B:35:TYR:O	2:B:42:ILE:HD11	1.97	0.64
2:B:89:ASN:C	2:B:101:ILE:CD1	2.70	0.64
2:B:106:LEU:CD1	2:B:144:ASP:HB2	1.97	0.64
2:B:231:ARG:CZ	2:B:297:PRO:HG2	2.26	0.64
2:B:278:PRO:HD3	2:B:290:SER:HA	1.79	0.64
4:M:7:ILE:HD11	4:M:121:ILE:HG21	1.78	0.64
4:M:7:ILE:HD12	4:M:121:ILE:HG21	1.79	0.64
4:M:230:LYS:O	4:M:232:HIS:N	2.29	0.64
4:M:363:ASN:HB2	4:M:431:GLN:HB2	1.80	0.64
1:A:244:LEU:HD11	1:A:281:LEU:HD13	1.79	0.64
2:B:249:ILE:HD13	2:B:321:CYS:SG	2.36	0.64
4:M:65:TYR:CE2	4:M:86:PRO:CA	2.80	0.64
4:M:118:TYR:HA	4:M:121:ILE:HD12	1.78	0.64
1:A:503:ASN:HB3	4:M:59:ASP:CA	2.07	0.64
1:A:528:ASN:O	1:A:529:GLY:O	2.15	0.64
2:B:143:SER:HB2	2:B:179:LYS:CG	2.27	0.64
3:S:6:LEU:HA	3:S:16:LEU:O	1.98	0.64
4:M:5:PHE:CZ	4:M:92:PHE:CD1	2.84	0.64
4:M:306:LEU:HD13	4:M:317:MET:HE3	1.77	0.64
1:A:581:LEU:CG	1:A:585:PHE:CE2	2.80	0.64
2:B:219:TYR:CB	2:B:226:LEU:HD22	2.28	0.64
2:B:256:CYS:HG	2:B:328:LEU:HD21	1.60	0.64
2:B:418:TYR:CD1	2:B:419:VAL:N	2.65	0.64
2:B:457:HIS:ND1	2:B:461:HIS:CD2	2.65	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:47:GLN:O	3:S:48:SER:C	2.34	0.64
1:A:300:LYS:O	1:A:301:GLY:C	2.38	0.64
2:B:212:VAL:HG11	2:B:248:LEU:HD23	1.79	0.64
2:B:299:LEU:O	2:B:302:PHE:CB	2.42	0.64
2:B:340:ILE:CG1	2:B:373:LEU:CD2	2.70	0.64
2:B:429:VAL:CG1	2:B:467:VAL:HG11	2.27	0.64
2:B:430:ILE:CD1	2:B:466:SER:HB3	2.27	0.64
2:B:542:PRO:O	2:B:607:ILE:CD1	2.41	0.64
2:B:553:ALA:HB2	2:B:614:ILE:CD1	2.28	0.64
4:M:243:ILE:C	4:M:472:TYR:HB3	2.22	0.64
1:A:215:VAL:HG12	1:A:243:ILE:HG21	1.78	0.64
1:A:272:ALA:O	1:A:276:PRO:HD3	1.97	0.64
4:M:9:ASP:HB3	4:M:111:ILE:CG2	2.28	0.64
4:M:219:LEU:CD1	4:M:440:ILE:HG12	2.27	0.64
4:M:222:PHE:CE2	4:M:439:TYR:CE2	2.85	0.64
4:M:360:LEU:HD13	4:M:433:VAL:CG2	2.27	0.64
4:M:458:LEU:HD13	4:M:464:THR:HG21	1.80	0.64
1:A:260:PHE:O	1:A:262:ASN:N	2.29	0.64
1:A:323:CYS:SG	1:A:355:LEU:HD21	2.38	0.64
1:A:599:ARG:NE	2:B:610:ARG:NH2	2.39	0.64
2:B:43:ASN:HB3	2:B:44:PRO:HD2	1.79	0.64
2:B:73:ASP:HA	4:M:19:LEU:HD23	1.60	0.64
2:B:98:LYS:NZ	2:B:134:LEU:HD22	2.12	0.64
2:B:181:TYR:CB	2:B:218:CYS:SG	2.85	0.64
2:B:217:GLU:OE2	4:M:133:GLU:CD	2.40	0.64
2:B:223:LEU:HD21	2:B:258:GLN:HB2	1.80	0.64
2:B:237:ILE:HG23	2:B:238:LYS:H	1.50	0.64
2:B:251:LEU:O	2:B:254:LYS:N	2.30	0.64
2:B:433:VAL:HG22	2:B:471:TYR:CZ	2.32	0.64
4:M:252:ASP:O	4:M:254:PRO:HD2	1.97	0.64
1:A:125:THR:OG1	1:A:158:LEU:CD1	2.37	0.64
2:B:35:TYR:O	2:B:42:ILE:CD1	2.46	0.64
2:B:37:TYR:O	2:B:40:GLN:O	2.15	0.64
2:B:80:GLN:HG2	2:B:108:PHE:HZ	1.58	0.64
2:B:268:LYS:C	2:B:273:SER:OG	2.40	0.64
2:B:351:GLU:OE1	4:M:241:HIS:HB2	1.98	0.64
2:B:378:THR:C	2:B:380:LYS:H	2.05	0.64
2:B:452:LYS:NZ	2:B:456:ASP:OD2	2.30	0.64
2:B:545:ARG:CD	2:B:602:ASP:OD2	2.46	0.64
2:B:592:TYR:C	2:B:592:TYR:CD1	2.76	0.64
4:M:445:SER:HG	4:M:447:ILE:HG23	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:150:LEU:HB3	1:A:162:ILE:CD1	2.27	0.63
2:B:212:VAL:HG22	2:B:233:TYR:CD1	2.32	0.63
2:B:249:ILE:HD11	2:B:321:CYS:SG	2.38	0.63
3:S:35:VAL:HG12	3:S:77:TYR:HH	1.63	0.63
4:M:63:TYR:HB3	4:M:81:SER:O	1.97	0.63
4:M:221:THR:HG23	4:M:437:TYR:O	1.98	0.63
4:M:271:SER:C	4:M:272:LEU:HD12	2.23	0.63
1:A:186:PHE:CD1	1:A:186:PHE:C	2.76	0.63
1:A:384:LEU:HD22	1:A:441:TYR:CE2	2.33	0.63
1:A:436:CYS:HB3	1:A:476:GLN:HE21	1.63	0.63
1:A:481:MET:HE1	1:A:518:CYS:HB3	1.79	0.63
2:B:178:ILE:CD1	2:B:218:CYS:H	2.07	0.63
2:B:279:LEU:H	2:B:288:TYR:CB	2.02	0.63
2:B:284:ASN:O	2:B:285:GLU:C	2.34	0.63
2:B:313:SER:HB3	4:M:269:ILE:O	1.96	0.63
2:B:386:LYS:CE	4:M:480:GLN:HB2	2.27	0.63
2:B:433:VAL:O	2:B:474:VAL:HG21	1.97	0.63
2:B:517:GLU:O	2:B:519:ALA:N	2.31	0.63
4:M:68:VAL:CA	4:M:76:CYS:O	2.44	0.63
4:M:217:ASP:CB	4:M:470:ALA:C	2.71	0.63
4:M:235:LEU:HD23	4:M:235:LEU:C	2.23	0.63
1:A:68:THR:OG1	3:S:166:LYS:HD3	1.99	0.63
1:A:132:LEU:HD11	1:A:150:LEU:CD1	2.27	0.63
1:A:462:GLN:OE1	4:M:58:ARG:HB2	1.94	0.63
2:B:104:TYR:O	2:B:107:ARG:CA	2.45	0.63
2:B:585:GLY:O	2:B:589:SER:OG	2.17	0.63
3:S:65:ASN:O	3:S:67:GLU:N	2.32	0.63
4:M:44:ASP:OD2	4:M:50:TYR:HE2	1.80	0.63
4:M:254:PRO:HB3	4:M:454:ILE:HD11	1.79	0.63
1:A:151:SER:O	1:A:152:THR:C	2.28	0.63
1:A:250:ASN:OD1	1:A:285:THR:HB	1.98	0.63
1:A:492:ILE:HD11	1:A:522:PHE:CB	2.29	0.63
1:A:621:LEU:HD13	1:A:621:LEU:C	2.23	0.63
2:B:13:ASP:O	2:B:17:VAL:CB	2.46	0.63
2:B:249:ILE:HG12	2:B:306:LEU:HD23	1.80	0.63
2:B:314:ASN:O	2:B:318:ILE:HG13	1.98	0.63
2:B:378:THR:CG2	2:B:379:LYS:H	2.11	0.63
2:B:436:LEU:HD12	2:B:454:LEU:HD23	1.79	0.63
2:B:530:LEU:CD2	2:B:591:MET:HB3	2.28	0.63
3:S:65:ASN:O	3:S:66:ASP:C	2.39	0.63
3:S:149:ILE:O	3:S:153:VAL:HG23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:51:LEU:HB2	4:M:68:VAL:HG11	1.81	0.63
4:M:443:SER:CA	4:M:447:ILE:HG13	2.28	0.63
1:A:140:VAL:HG22	1:A:177:ILE:HG13	1.79	0.63
1:A:179:LYS:HZ3	3:S:141:VAL:CA	2.06	0.63
1:A:433:ILE:HD11	1:A:473:ILE:HA	1.80	0.63
1:A:435:ILE:HG23	1:A:441:TYR:CE2	2.33	0.63
1:A:495:ILE:HG21	1:A:515:CYS:CB	2.27	0.63
1:A:506:LYS:HZ1	4:M:82:LYS:HD2	0.58	0.63
2:B:73:ASP:N	4:M:19:LEU:HB3	2.03	0.63
2:B:157:THR:O	2:B:161:LEU:HD13	1.99	0.63
2:B:497:LEU:HD22	2:B:511:ILE:HG21	1.79	0.63
3:S:127:THR:HG23	3:S:153:VAL:HG13	1.80	0.63
4:M:374:TYR:CB	4:M:417:TYR:HD1	2.12	0.63
4:M:376:ILE:HG22	4:M:379:LEU:HD12	1.79	0.63
1:A:110:ALA:O	1:A:111:SER:C	2.34	0.63
1:A:420:ILE:HG22	1:A:421:PRO:O	1.99	0.63
1:A:625:LEU:O	1:A:626:SER:C	2.32	0.63
2:B:136:CYS:SG	2:B:169:VAL:N	2.71	0.63
2:B:212:VAL:CG1	2:B:248:LEU:HD23	2.29	0.63
2:B:237:ILE:HG22	2:B:238:LYS:H	1.64	0.63
2:B:250:GLU:HA	2:B:253:ILE:HD12	1.81	0.63
2:B:270:SER:O	2:B:273:SER:HB2	1.98	0.63
2:B:580:TYR:O	2:B:582:ASP:CG	2.41	0.63
3:S:57:LEU:O	3:S:67:GLU:O	2.16	0.63
4:M:5:PHE:O	4:M:17:GLN:HA	1.97	0.63
4:M:223:HIS:CG	4:M:478:ASN:HA	2.33	0.63
4:M:271:SER:HB3	4:M:301:GLU:HG2	1.80	0.63
4:M:320:ILE:HA	4:M:323:MET:HE2	1.80	0.63
4:M:407:THR:O	4:M:409:PRO:HD3	1.99	0.63
1:A:505:ASN:O	1:A:506:LYS:C	2.38	0.63
2:B:124:GLN:OE1	2:B:153:ILE:HG23	1.99	0.63
2:B:556:LEU:C	2:B:588:ILE:HD11	2.24	0.63
4:M:65:TYR:CE2	4:M:86:PRO:O	2.52	0.63
4:M:265:ASN:HB3	4:M:309:GLN:CG	2.26	0.63
1:A:450:TYR:OH	1:A:476:GLN:NE2	2.31	0.63
2:B:25:VAL:HG23	2:B:32:GLU:CA	2.29	0.63
2:B:143:SER:C	2:B:179:LYS:HD2	2.23	0.63
2:B:252:LEU:HD13	2:B:302:PHE:CG	2.30	0.63
2:B:513:TRP:HA	2:B:551:LEU:HD13	1.81	0.63
2:B:574:ASN:C	2:B:576:GLN:N	2.52	0.63
3:S:126:GLN:NE2	3:S:127:THR:OG1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:LEU:CD1	1:A:203:PHE:CE1	2.82	0.63
1:A:412:LYS:O	1:A:413:SER:C	2.34	0.63
2:B:12:LEU:HD22	4:M:13:LYS:CD	2.28	0.63
2:B:120:ILE:CD1	2:B:142:LEU:HD23	2.29	0.63
2:B:306:LEU:HD12	2:B:325:LEU:CD2	2.28	0.63
2:B:322:CYS:SG	2:B:366:LEU:HG	2.39	0.63
3:S:87:PHE:CG	3:S:102:ILE:HG12	2.34	0.63
1:A:71:VAL:HG21	1:A:94:VAL:HG11	1.81	0.62
2:B:136:CYS:SG	2:B:168:MET:HG2	2.39	0.62
2:B:360:LEU:HD13	2:B:391:ALA:O	1.99	0.62
2:B:378:THR:C	2:B:380:LYS:N	2.54	0.62
2:B:418:TYR:CD1	2:B:419:VAL:HA	2.33	0.62
2:B:560:ILE:CA	2:B:563:PHE:HB2	2.27	0.62
2:B:597:TYR:O	2:B:601:TYR:CE2	2.51	0.62
4:M:220:GLU:OE1	4:M:222:PHE:CZ	2.51	0.62
1:A:211:ASP:OD1	1:A:213:SER:N	2.29	0.62
1:A:364:ASP:HB3	1:A:367:ILE:HD12	1.80	0.62
1:A:529:GLY:C	1:A:562:TRP:CZ2	2.76	0.62
3:S:107:GLU:O	3:S:111:ARG:HG2	1.99	0.62
3:S:127:THR:HG22	3:S:153:VAL:HG13	1.77	0.62
4:M:214:LEU:N	4:M:465:LYS:O	2.31	0.62
4:M:350:VAL:CG1	4:M:442:GLN:HG2	2.30	0.62
1:A:97:SER:C	1:A:98:ASN:O	2.16	0.62
1:A:103:LYS:C	1:A:107:TYR:CD2	2.77	0.62
1:A:150:LEU:O	1:A:153:ILE:N	2.32	0.62
1:A:260:PHE:CZ	1:A:274:LEU:HD11	2.34	0.62
2:B:243:TRP:HH2	4:M:98:ARG:NE	1.95	0.62
2:B:315:PRO:HG3	2:B:350:THR:HG22	1.82	0.62
2:B:566:ALA:CB	2:B:581:TYR:HB3	2.30	0.62
3:S:1:MET:H2	3:S:93:GLU:CB	2.11	0.62
4:M:265:ASN:O	4:M:267:ILE:N	2.32	0.62
4:M:276:VAL:CG2	4:M:299:LEU:HD12	2.29	0.62
4:M:376:ILE:HG22	4:M:379:LEU:CD1	2.27	0.62
1:A:529:GLY:C	1:A:562:TRP:CH2	2.78	0.62
2:B:127:LEU:HB3	2:B:157:THR:CG2	2.30	0.62
2:B:328:LEU:HB2	2:B:333:GLN:NE2	2.14	0.62
2:B:437:SER:HB2	2:B:474:VAL:CG2	2.29	0.62
4:M:269:ILE:O	4:M:302:TYR:CD2	2.51	0.62
4:M:319:SER:CB	4:M:343:ASN:O	2.47	0.62
1:A:121:LEU:HD11	1:A:155:THR:H	1.63	0.62
1:A:289:SER:O	1:A:291:ILE:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:319:LEU:O	1:A:320:HIS:O	2.17	0.62
1:A:487:MET:O	1:A:488:ARG:C	2.38	0.62
2:B:10:SER:N	4:M:14:LEU:HD13	2.13	0.62
2:B:68:SER:HA	4:M:18:TYR:CD1	2.34	0.62
2:B:151:ALA:CB	2:B:180:LEU:HD11	2.29	0.62
2:B:566:ALA:HA	2:B:574:ASN:CB	2.25	0.62
4:M:224:VAL:HG23	4:M:479:PHE:CE2	2.34	0.62
4:M:290:PHE:HZ	4:M:293:PRO:HD3	1.61	0.62
1:A:151:SER:C	1:A:153:ILE:N	2.52	0.62
1:A:421:PRO:HA	3:S:62:GLU:O	2.00	0.62
1:A:429:VAL:CG1	1:A:469:LEU:HD11	2.29	0.62
1:A:536:MET:HB3	1:A:551:LEU:HD11	1.80	0.62
2:B:291:TYR:CE2	2:B:294:VAL:HB	2.34	0.62
4:M:15:ILE:HG21	4:M:114:ILE:HG22	1.79	0.62
4:M:290:PHE:CE1	4:M:297:PHE:CD2	2.88	0.62
4:M:300:LEU:O	4:M:300:LEU:HD12	2.00	0.62
1:A:402:ILE:HB	1:A:421:PRO:HA	1.81	0.62
1:A:517:TRP:NE1	2:B:605:PHE:CE2	2.65	0.62
2:B:299:LEU:C	2:B:299:LEU:HD13	2.24	0.62
2:B:310:ILE:HG21	2:B:342:ALA:CB	2.28	0.62
4:M:65:TYR:CE2	4:M:86:PRO:HB3	2.33	0.62
1:A:140:VAL:O	1:A:141:VAL:C	2.38	0.62
2:B:158:VAL:CG1	2:B:177:ILE:CD1	2.77	0.62
2:B:403:ILE:HD11	2:B:439:CYS:CA	2.01	0.62
2:B:416:LYS:HA	2:B:457:HIS:HE2	1.63	0.62
2:B:568:VAL:O	2:B:574:ASN:ND2	2.32	0.62
2:B:596:LEU:HD13	2:B:611:ALA:O	1.99	0.62
3:S:16:LEU:CB	3:S:125:TRP:NE1	2.50	0.62
4:M:19:LEU:CD2	4:M:24:ALA:CB	2.77	0.62
4:M:101:LEU:O	4:M:103:TYR:O	2.18	0.62
4:M:217:ASP:OD1	4:M:217:ASP:O	2.17	0.62
4:M:243:ILE:N	4:M:474:THR:HG21	2.14	0.62
4:M:261:ASN:CB	4:M:450:GLU:CG	2.71	0.62
4:M:316:ARG:HG3	4:M:322:LEU:HD13	1.80	0.62
4:M:356:LEU:HD21	4:M:358:ILE:HG12	1.80	0.62
1:A:244:LEU:HA	1:A:256:LEU:HD13	1.80	0.62
1:A:438:ALA:O	1:A:439:ASP:HB2	1.99	0.62
1:A:495:ILE:CG2	1:A:515:CYS:SG	2.87	0.62
2:B:14:THR:CA	2:B:36:THR:HA	2.26	0.62
2:B:73:ASP:H	4:M:19:LEU:CG	2.13	0.62
2:B:107:ARG:NH2	4:M:126:ASN:HA	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:306:LEU:HD12	2:B:325:LEU:HD21	1.81	0.62
2:B:310:ILE:HG23	2:B:318:ILE:CG2	2.25	0.62
2:B:436:LEU:CD1	2:B:454:LEU:HD23	2.29	0.62
4:M:44:ASP:OD2	4:M:50:TYR:CE2	2.53	0.62
4:M:215:TYR:CB	4:M:467:TYR:O	2.47	0.62
4:M:373:ALA:O	4:M:418:GLU:N	2.33	0.62
4:M:442:GLN:HG3	4:M:443:SER:N	2.14	0.62
1:A:244:LEU:CG	1:A:281:LEU:HD11	2.29	0.62
1:A:609:LEU:HG	1:A:628:VAL:CB	2.30	0.62
2:B:25:VAL:HG23	2:B:32:GLU:CB	2.29	0.62
2:B:50:LEU:HG	2:B:62:ALA:HB2	1.82	0.62
2:B:141:ALA:O	2:B:142:LEU:C	2.42	0.62
2:B:220:ALA:CA	2:B:258:GLN:HG3	2.27	0.62
3:S:64:ASN:C	3:S:66:ASP:H	2.08	0.62
4:M:69:ILE:CD1	4:M:94:GLU:N	2.63	0.62
4:M:341:SER:HG	4:M:343:ASN:HD21	1.44	0.62
4:M:360:LEU:HD23	4:M:362:PHE:CE2	2.35	0.62
1:A:402:ILE:CG2	1:A:421:PRO:HA	2.29	0.61
1:A:433:ILE:CG2	1:A:476:GLN:HB2	2.30	0.61
1:A:495:ILE:CG2	1:A:515:CYS:CB	2.77	0.61
2:B:343:LEU:HD23	2:B:366:LEU:HD12	1.82	0.61
2:B:363:ILE:HG21	2:B:398:ILE:HD13	1.82	0.61
2:B:367:SER:HB2	2:B:401:THR:OG1	1.94	0.61
4:M:42:LEU:HD23	4:M:51:LEU:CD2	2.30	0.61
4:M:51:LEU:HB2	4:M:68:VAL:CG1	2.30	0.61
4:M:243:ILE:O	4:M:472:TYR:HD2	1.76	0.61
4:M:354:ASP:HB2	4:M:440:ILE:HD11	1.79	0.61
1:A:179:LYS:HD3	3:S:142:ILE:HD13	1.81	0.61
1:A:213:SER:CB	3:S:142:ILE:O	2.42	0.61
1:A:229:ASN:O	1:A:230:PRO:C	2.33	0.61
1:A:402:ILE:HG21	1:A:421:PRO:HA	1.82	0.61
2:B:90:ILE:CA	2:B:101:ILE:HD13	2.29	0.61
2:B:381:PHE:O	2:B:395:LYS:HD2	2.00	0.61
2:B:435:SER:O	2:B:437:SER:N	2.33	0.61
2:B:588:ILE:HG23	2:B:618:PHE:CE1	2.34	0.61
3:S:29:LYS:O	3:S:32:LEU:N	2.32	0.61
3:S:136:VAL:O	3:S:140:MET:N	2.33	0.61
4:M:212:ASN:CB	4:M:250:LEU:HD23	2.30	0.61
4:M:222:PHE:CD2	4:M:439:TYR:CE2	2.85	0.61
2:B:144:ASP:OD1	4:M:131:ALA:C	2.44	0.61
2:B:363:ILE:HG13	2:B:381:PHE:CZ	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:513:TRP:NE1	2:B:517:GLU:HG3	2.15	0.61
4:M:69:ILE:HB	4:M:97:ASP:OD2	2.00	0.61
4:M:223:HIS:HB2	4:M:476:THR:OG1	1.99	0.61
4:M:223:HIS:NE2	4:M:436:GLU:HB2	2.15	0.61
1:A:158:LEU:HG	1:A:162:ILE:HD12	1.82	0.61
2:B:34:SER:HB3	2:B:65:ARG:CZ	2.30	0.61
2:B:83:PHE:CE1	2:B:87:VAL:HG21	2.35	0.61
2:B:162:VAL:HG23	2:B:173:VAL:CG1	2.30	0.61
2:B:219:TYR:CG	2:B:226:LEU:CB	2.79	0.61
2:B:347:VAL:O	2:B:348:THR:C	2.40	0.61
3:S:49:SER:O	3:S:77:TYR:O	2.18	0.61
4:M:88:ASP:OD2	4:M:134:PRO:HG3	2.01	0.61
4:M:224:VAL:H	4:M:479:PHE:CA	2.12	0.61
4:M:270:PRO:HB2	4:M:288:ILE:HD11	1.83	0.61
1:A:429:VAL:CG1	1:A:473:ILE:CG1	2.78	0.61
1:A:462:GLN:CD	4:M:59:ASP:C	2.34	0.61
2:B:12:LEU:HD22	4:M:13:LYS:CE	2.31	0.61
2:B:216:LYS:NZ	4:M:136:VAL:CG2	2.64	0.61
2:B:231:ARG:CG	2:B:297:PRO:HB2	2.30	0.61
2:B:382:TYR:OH	2:B:411:ILE:N	2.33	0.61
2:B:429:VAL:CG1	2:B:467:VAL:CG1	2.78	0.61
4:M:45:SER:HA	4:M:75:TRP:CH2	2.35	0.61
4:M:216:VAL:O	4:M:216:VAL:HG23	1.98	0.61
4:M:222:PHE:HD1	4:M:240:ILE:HG23	1.53	0.61
4:M:250:LEU:HD11	4:M:254:PRO:HG2	1.82	0.61
1:A:204:VAL:HG13	1:A:239:LEU:HD11	1.82	0.61
1:A:217:ALA:HB2	3:S:140:MET:SD	2.40	0.61
1:A:233:PHE:O	1:A:234:ILE:O	2.15	0.61
2:B:200:MET:CG	2:B:232:ARG:HB3	2.28	0.61
2:B:260:LEU:HD23	2:B:293:VAL:HG11	1.82	0.61
2:B:292:GLU:HG3	2:B:296:ASP:HB2	1.78	0.61
2:B:325:LEU:HD13	2:B:339:PHE:CD1	2.36	0.61
2:B:347:VAL:CG2	2:B:381:PHE:HE1	2.12	0.61
1:A:438:ALA:O	1:A:441:TYR:CE1	2.54	0.61
1:A:441:TYR:HB3	1:A:444:VAL:HG23	1.83	0.61
1:A:453:VAL:O	1:A:457:LEU:HG	2.00	0.61
2:B:103:LEU:CD1	4:M:127:CYS:SG	2.88	0.61
2:B:237:ILE:HB	2:B:248:LEU:HD13	1.81	0.61
2:B:260:LEU:O	2:B:261:PRO:C	2.37	0.61
2:B:322:CYS:SG	2:B:343:LEU:HD22	2.41	0.61
2:B:382:TYR:OH	2:B:410:GLU:HB3	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:400:SER:HB3	2:B:435:SER:HA	1.65	0.61
4:M:65:TYR:CE1	4:M:66:PHE:O	2.53	0.61
4:M:212:ASN:CB	4:M:250:LEU:HA	2.29	0.61
4:M:302:TYR:HE1	4:M:304:VAL:HB	1.65	0.61
4:M:374:TYR:HH	4:M:394:GLN:C	2.08	0.61
1:A:255:ARG:O	1:A:258:LYS:N	2.33	0.61
1:A:609:LEU:CG	1:A:628:VAL:HG11	2.31	0.61
2:B:9:ALA:CB	4:M:14:LEU:CB	2.53	0.61
2:B:329:ALA:O	2:B:330:SER:C	2.33	0.61
2:B:481:LYS:C	2:B:483:PRO:HD3	2.25	0.61
4:M:117:ASN:O	4:M:121:ILE:HG13	2.00	0.61
4:M:405:THR:O	4:M:405:THR:HG22	2.01	0.61
4:M:443:SER:CB	4:M:447:ILE:N	2.62	0.61
1:A:154:ILE:HB	1:A:191:GLN:HG3	1.82	0.61
1:A:450:TYR:CD2	1:A:480:LEU:HG	2.36	0.61
1:A:637:GLU:OE2	2:B:554:LYS:HG3	2.00	0.61
2:B:196:LEU:CB	2:B:215:TYR:CE1	2.76	0.61
2:B:344:VAL:CG1	2:B:381:PHE:CE2	2.74	0.61
2:B:397:GLN:HG3	2:B:431:MET:CG	2.31	0.61
2:B:534:ILE:O	2:B:536:ASN:N	2.34	0.61
3:S:89:VAL:HG11	3:S:98:ILE:HD12	1.82	0.61
1:A:318:ARG:O	1:A:322:PHE:CD2	2.53	0.61
1:A:323:CYS:SG	1:A:334:SER:HB2	2.39	0.61
1:A:372:ILE:HG22	1:A:431:VAL:HG21	1.82	0.61
2:B:38:TYR:OH	2:B:43:ASN:O	2.18	0.61
2:B:178:ILE:CD1	2:B:218:CYS:CB	2.78	0.61
2:B:239:GLN:OE1	4:M:280:ASP:OD1	2.09	0.61
2:B:247:TYR:CD1	4:M:136:VAL:CG1	2.77	0.61
2:B:408:VAL:HG11	2:B:446:TRP:HB3	1.83	0.61
2:B:440:GLY:C	2:B:442:LEU:N	2.56	0.61
2:B:464:SER:OG	2:B:467:VAL:HG23	2.01	0.61
2:B:549:LEU:HD13	2:B:595:VAL:CG1	2.31	0.61
4:M:350:VAL:CA	4:M:442:GLN:HB2	2.25	0.61
1:A:213:SER:HB3	3:S:142:ILE:C	2.26	0.60
2:B:216:LYS:CD	2:B:251:LEU:HA	2.30	0.60
2:B:227:HIS:C	2:B:229:HIS:N	2.58	0.60
2:B:599:ALA:O	2:B:602:ASP:N	2.30	0.60
4:M:435:LEU:H	4:M:479:PHE:HB2	1.65	0.60
1:A:132:LEU:HD11	1:A:150:LEU:HD12	1.82	0.60
1:A:185:LEU:HD13	1:A:203:PHE:CE1	2.36	0.60
1:A:231:GLN:HB2	1:A:232:PRO:HD3	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:625:LEU:O	1:A:627:GLU:N	2.34	0.60
1:A:638:LEU:HD23	2:B:561:ASP:OD1	1.96	0.60
2:B:1:MET:HG3	4:M:39:PRO:CG	2.27	0.60
2:B:12:LEU:CD2	4:M:13:LYS:HE3	2.31	0.60
2:B:230:PHE:HD1	2:B:298:ASP:HA	1.66	0.60
4:M:214:LEU:C	4:M:467:TYR:HB3	2.26	0.60
4:M:437:TYR:CE1	4:M:479:PHE:CE2	2.89	0.60
1:A:68:THR:OG1	3:S:166:LYS:CD	2.50	0.60
1:A:163:ALA:HB1	1:A:199:ASN:HD21	1.66	0.60
1:A:232:PRO:O	1:A:235:GLN:HB2	2.00	0.60
2:B:14:THR:CB	2:B:36:THR:HG23	2.16	0.60
2:B:79:VAL:C	2:B:108:PHE:CE2	2.75	0.60
2:B:109:ALA:C	2:B:111:ASN:N	2.55	0.60
2:B:252:LEU:CB	2:B:302:PHE:CG	2.83	0.60
2:B:279:LEU:HD12	2:B:285:GLU:CG	2.31	0.60
3:S:53:THR:C	3:S:69:ASN:HB2	2.26	0.60
3:S:54:PRO:O	3:S:69:ASN:HB2	2.01	0.60
3:S:99:LEU:O	3:S:102:ILE:HB	2.00	0.60
4:M:7:ILE:HG12	4:M:76:CYS:SG	2.42	0.60
4:M:76:CYS:HB3	4:M:93:LEU:HD22	1.83	0.60
4:M:213:GLU:OE1	4:M:467:TYR:HD1	1.84	0.60
4:M:221:THR:N	4:M:474:THR:HG1	1.73	0.60
4:M:306:LEU:CD2	4:M:317:MET:HE1	2.21	0.60
4:M:323:MET:HB3	4:M:340:LEU:CD1	2.27	0.60
1:A:200:PHE:HZ	1:A:236:LEU:HD21	1.60	0.60
1:A:318:ARG:O	1:A:322:PHE:HD2	1.84	0.60
1:A:436:CYS:HB2	1:A:450:TYR:CE1	2.36	0.60
2:B:106:LEU:HG	4:M:130:GLU:CD	2.25	0.60
2:B:161:LEU:CB	2:B:173:VAL:HG22	2.26	0.60
4:M:290:PHE:HZ	4:M:293:PRO:CD	2.14	0.60
4:M:360:LEU:CD2	4:M:362:PHE:CE2	2.84	0.60
1:A:64:LEU:CB	1:A:102:GLN:HE22	2.14	0.60
2:B:34:SER:OG	2:B:35:TYR:N	2.34	0.60
2:B:139:LEU:HD11	2:B:176:ALA:HB1	1.83	0.60
2:B:206:LYS:O	2:B:210:CYS:SG	2.53	0.60
2:B:374:PHE:O	2:B:374:PHE:CG	2.50	0.60
2:B:436:LEU:HB2	2:B:454:LEU:HD21	1.83	0.60
2:B:588:ILE:HG21	2:B:618:PHE:HE1	1.66	0.60
3:S:17:VAL:HG21	3:S:19:PHE:HZ	1.61	0.60
3:S:89:VAL:CG1	3:S:98:ILE:HD12	2.31	0.60
3:S:93:GLU:HA	3:S:93:GLU:OE1	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:344:ILE:H	4:M:408:VAL:HG22	1.67	0.60
4:M:356:LEU:HD23	4:M:358:ILE:HG13	1.82	0.60
4:M:442:GLN:CG	4:M:443:SER:H	2.12	0.60
1:A:189:PHE:CB	1:A:225:LEU:CD2	2.80	0.60
2:B:20:ARG:HD3	4:M:115:VAL:O	2.02	0.60
2:B:78:ASP:O	2:B:79:VAL:C	2.25	0.60
2:B:193:LEU:O	2:B:229:HIS:HE1	1.83	0.60
2:B:515:PHE:HD2	2:B:529:VAL:HG21	1.64	0.60
2:B:523:PHE:CD2	2:B:559:ASP:OD1	2.54	0.60
2:B:546:CYS:CB	2:B:607:ILE:HG12	2.32	0.60
4:M:219:LEU:H	4:M:472:TYR:HB2	1.67	0.60
4:M:225:VAL:HA	4:M:480:GLN:O	2.01	0.60
4:M:260:LEU:HD23	4:M:449:VAL:HG22	1.81	0.60
1:A:253:ILE:O	1:A:257:LEU:HG	2.02	0.60
1:A:328:PRO:O	3:S:50:PHE:CZ	2.46	0.60
1:A:537:THR:O	1:A:540:ILE:HG22	2.01	0.60
2:B:144:ASP:OD2	4:M:131:ALA:N	2.33	0.60
2:B:399:LEU:HB3	2:B:411:ILE:CG2	2.32	0.60
4:M:114:ILE:O	4:M:115:VAL:C	2.45	0.60
1:A:178:ARG:HD3	1:A:209:ASP:OD2	2.01	0.60
1:A:609:LEU:HG	1:A:628:VAL:HB	1.84	0.60
2:B:189:HIS:CE1	2:B:222:HIS:HB3	2.36	0.60
2:B:220:ALA:O	2:B:258:GLN:OE1	2.19	0.60
2:B:375:LEU:CD1	2:B:404:ASN:CB	2.56	0.60
3:S:53:THR:HG21	3:S:67:GLU:O	2.02	0.60
4:M:6:TYR:HA	4:M:17:GLN:HA	1.82	0.60
4:M:80:THR:HG23	4:M:89:CYS:SG	2.41	0.60
4:M:360:LEU:HD13	4:M:433:VAL:HG23	1.83	0.60
4:M:374:TYR:OH	4:M:394:GLN:CA	2.50	0.60
4:M:478:ASN:C	4:M:479:PHE:O	2.44	0.60
1:A:121:LEU:HD23	1:A:121:LEU:C	2.27	0.60
1:A:240:LEU:C	1:A:242:GLU:O	2.44	0.60
2:B:37:TYR:O	2:B:38:TYR:C	2.44	0.60
2:B:182:ARG:HD2	2:B:217:GLU:HB3	1.84	0.60
2:B:200:MET:HE1	2:B:229:HIS:C	2.26	0.60
2:B:280:PRO:CG	2:B:283:TYR:HD2	2.07	0.60
2:B:336:ASN:O	2:B:373:LEU:CD2	2.43	0.60
2:B:418:TYR:HD1	2:B:424:PHE:CE2	2.20	0.60
2:B:497:LEU:HD13	2:B:503:LEU:HD12	1.83	0.60
2:B:500:GLN:HB3	2:B:503:LEU:HG	1.83	0.60
4:M:6:TYR:CD1	4:M:6:TYR:N	2.68	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:132:LEU:O	1:A:133:LYS:C	2.43	0.60
1:A:441:TYR:HB3	1:A:444:VAL:CG2	2.32	0.60
1:A:480:LEU:O	1:A:483:LYS:O	2.20	0.60
1:A:632:PHE:O	1:A:635:ALA:N	2.34	0.60
2:B:216:LYS:HD3	2:B:251:LEU:HA	1.84	0.60
2:B:231:ARG:NE	2:B:297:PRO:HB2	2.17	0.60
2:B:374:PHE:CZ	2:B:381:PHE:HD2	2.06	0.60
2:B:522:GLU:C	2:B:524:LYS:H	2.09	0.60
4:M:46:SER:O	4:M:48:ASP:N	2.34	0.60
4:M:220:GLU:OE1	4:M:222:PHE:CE1	2.55	0.60
4:M:315:VAL:O	4:M:315:VAL:HG12	2.02	0.60
1:A:405:THR:C	2:B:7:ARG:NH2	2.58	0.59
1:A:406:GLY:C	3:S:64:ASN:CG	2.69	0.59
2:B:72:SER:CB	4:M:17:GLN:NE2	2.65	0.59
2:B:302:PHE:CD2	2:B:328:LEU:HD11	2.36	0.59
2:B:374:PHE:HE2	2:B:402:LEU:HD11	0.95	0.59
2:B:466:SER:O	2:B:469:ASP:HB2	2.02	0.59
2:B:513:TRP:HE1	2:B:517:GLU:CG	2.15	0.59
3:S:1:MET:H1	3:S:93:GLU:CD	2.10	0.59
4:M:6:TYR:CA	4:M:16:PHE:O	2.49	0.59
4:M:65:TYR:HE2	4:M:86:PRO:O	1.85	0.59
4:M:374:TYR:CB	4:M:417:TYR:CD1	2.85	0.59
4:M:429:ASP:O	4:M:430:LEU:C	2.40	0.59
4:M:434:SER:HB3	4:M:478:ASN:CG	2.27	0.59
1:A:64:LEU:CG	1:A:102:GLN:HE22	2.14	0.59
1:A:460:LEU:HA	4:M:58:ARG:NH2	2.17	0.59
2:B:5:ILE:CD1	4:M:39:PRO:CD	2.80	0.59
2:B:252:LEU:CB	2:B:302:PHE:CD2	2.69	0.59
2:B:276:SER:C	2:B:295:ASN:CB	2.72	0.59
2:B:340:ILE:CD1	2:B:366:LEU:HB3	2.32	0.59
2:B:347:VAL:HB	2:B:381:PHE:CE1	2.36	0.59
2:B:472:VAL:HG11	2:B:510:GLY:C	2.26	0.59
2:B:495:ASP:O	2:B:499:VAL:HG23	2.02	0.59
2:B:522:GLU:C	2:B:524:LYS:N	2.60	0.59
4:M:19:LEU:HD12	4:M:20:LEU:H	1.66	0.59
4:M:226:PHE:CE2	4:M:321:GLY:O	2.55	0.59
4:M:410:VAL:HG12	4:M:412:ARG:HG3	1.83	0.59
1:A:384:LEU:HD12	1:A:385:LYS:N	2.17	0.59
1:A:397:ASP:O	1:A:418:ILE:HD12	2.03	0.59
1:A:450:TYR:HE2	1:A:480:LEU:HB2	1.66	0.59
2:B:107:ARG:HD3	4:M:130:GLU:OE2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:205:PRO:O	2:B:206:LYS:C	2.28	0.59
2:B:343:LEU:O	2:B:346:THR:HB	2.01	0.59
2:B:344:VAL:HA	2:B:381:PHE:HZ	1.67	0.59
2:B:355:ASN:O	2:B:359:LEU:HD23	2.02	0.59
2:B:430:ILE:HG12	2:B:467:VAL:CA	2.31	0.59
4:M:114:ILE:O	4:M:117:ASN:N	2.35	0.59
4:M:224:VAL:N	4:M:479:PHE:CA	2.65	0.59
4:M:241:HIS:O	4:M:474:THR:HG21	2.01	0.59
4:M:269:ILE:N	4:M:302:TYR:CE2	2.70	0.59
4:M:333:LYS:NZ	4:M:334:ASP:OD2	2.32	0.59
4:M:437:TYR:HD1	4:M:437:TYR:H	1.49	0.59
1:A:402:ILE:CB	1:A:421:PRO:HA	2.32	0.59
2:B:580:TYR:CB	2:B:582:ASP:CG	2.75	0.59
4:M:96:ILE:HD12	4:M:125:PHE:CE1	2.36	0.59
4:M:240:ILE:HG21	4:M:444:ALA:CA	2.26	0.59
4:M:290:PHE:CZ	4:M:293:PRO:CD	2.85	0.59
1:A:292:TYR:CD1	1:A:292:TYR:C	2.79	0.59
1:A:559:PHE:CD2	1:A:581:LEU:HD22	2.37	0.59
2:B:120:ILE:HG13	2:B:150:LEU:HD22	1.84	0.59
2:B:177:ILE:HG21	2:B:196:LEU:HG	1.84	0.59
2:B:178:ILE:CD1	2:B:218:CYS:HB2	2.28	0.59
2:B:181:TYR:CZ	2:B:222:HIS:CD2	2.88	0.59
2:B:261:PRO:HG2	2:B:292:GLU:CB	2.32	0.59
2:B:436:LEU:HD13	2:B:454:LEU:CD2	2.31	0.59
4:M:20:LEU:HD13	4:M:129:VAL:HG21	1.84	0.59
4:M:42:LEU:CD2	4:M:51:LEU:HD21	2.32	0.59
1:A:435:ILE:CG2	1:A:441:TYR:CE2	2.85	0.59
2:B:80:GLN:CA	2:B:108:PHE:HE2	2.16	0.59
2:B:170:ARG:HA	2:B:199:LEU:HD22	1.85	0.59
2:B:493:LEU:HD23	2:B:514:LEU:HD23	1.83	0.59
3:S:73:ILE:HG21	3:S:88:ILE:HG23	1.76	0.59
4:M:16:PHE:HB2	4:M:118:TYR:CD2	2.38	0.59
4:M:469:GLY:O	4:M:470:ALA:C	2.44	0.59
1:A:605:GLU:HB2	1:A:636:TYR:CE2	2.38	0.59
2:B:73:ASP:OD1	4:M:24:ALA:HB2	1.96	0.59
2:B:399:LEU:HD12	2:B:415:LEU:CD2	2.33	0.59
4:M:70:ASN:HB2	4:M:75:TRP:CZ3	2.37	0.59
4:M:110:SER:O	4:M:113:LYS:N	2.27	0.59
4:M:129:VAL:O	4:M:133:GLU:O	2.21	0.59
4:M:374:TYR:HB2	4:M:417:TYR:CD1	2.38	0.59
1:A:121:LEU:CD1	1:A:155:THR:HG23	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:PHE:CD2	1:A:225:LEU:HD11	2.37	0.59
1:A:508:LEU:HD12	4:M:59:ASP:OD1	2.03	0.59
1:A:562:TRP:CE3	1:A:574:ILE:HD12	2.37	0.59
2:B:469:ASP:CG	2:B:506:ASN:CB	2.67	0.59
2:B:559:ASP:O	2:B:562:ASN:CB	2.50	0.59
2:B:585:GLY:O	2:B:589:SER:CB	2.50	0.59
4:M:224:VAL:N	4:M:479:PHE:CB	2.55	0.59
4:M:235:LEU:HD11	4:M:306:LEU:CD1	2.33	0.59
4:M:244:VAL:O	4:M:299:LEU:CB	2.51	0.59
4:M:338:PHE:CZ	4:M:379:LEU:HD21	2.37	0.59
4:M:386:PHE:CD2	4:M:386:PHE:O	2.56	0.59
1:A:185:LEU:HB3	1:A:203:PHE:HE1	1.67	0.59
2:B:13:ASP:O	2:B:17:VAL:N	2.30	0.59
2:B:90:ILE:N	2:B:101:ILE:CD1	2.65	0.59
2:B:191:GLU:C	2:B:193:LEU:N	2.59	0.59
3:S:89:VAL:CG1	3:S:98:ILE:CG2	2.80	0.59
4:M:240:ILE:HB	4:M:304:VAL:HG12	1.84	0.59
4:M:283:PHE:HE2	4:M:289:THR:HB	1.65	0.59
1:A:297:CYS:O	1:A:298:ILE:C	2.38	0.59
1:A:516:ILE:CG2	1:A:554:ALA:HB3	2.32	0.59
1:A:566:PHE:C	1:A:568:GLU:N	2.57	0.59
2:B:69:ILE:CG2	2:B:74:ASP:HB3	2.32	0.59
2:B:106:LEU:HD22	2:B:144:ASP:HB2	1.83	0.59
2:B:191:GLU:C	2:B:193:LEU:H	2.11	0.59
2:B:193:LEU:CB	2:B:225:LEU:CD1	2.81	0.59
2:B:334:MET:O	2:B:373:LEU:HD22	2.03	0.59
2:B:360:LEU:HD21	2:B:395:LYS:CE	2.33	0.59
2:B:360:LEU:HD21	2:B:395:LYS:CD	2.32	0.59
2:B:396:ILE:HD11	2:B:418:TYR:CE2	2.38	0.59
2:B:549:LEU:HD12	2:B:595:VAL:CG1	2.32	0.59
4:M:290:PHE:CZ	4:M:291:ILE:O	2.55	0.59
4:M:306:LEU:CD2	4:M:317:MET:HE3	2.13	0.59
4:M:347:PHE:CE1	4:M:439:TYR:CG	2.90	0.59
1:A:125:THR:CB	1:A:158:LEU:HD13	2.33	0.58
1:A:186:PHE:HD1	1:A:187:LYS:N	2.00	0.58
1:A:225:LEU:HB3	1:A:233:PHE:HE2	1.62	0.58
1:A:289:SER:O	1:A:290:VAL:O	2.17	0.58
1:A:383:ASN:O	1:A:387:ILE:HG12	2.03	0.58
2:B:211:ALA:HB3	2:B:233:TYR:CZ	2.37	0.58
2:B:223:LEU:CD1	2:B:258:GLN:CA	2.78	0.58
2:B:343:LEU:CD2	2:B:363:ILE:CD1	2.74	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:439:CYS:C	2:B:441:GLN:N	2.60	0.58
2:B:537:PHE:CE2	2:B:545:ARG:HG2	2.38	0.58
2:B:537:PHE:CE1	2:B:598:LEU:HB3	2.38	0.58
3:S:46:PHE:O	3:S:47:GLN:C	2.24	0.58
4:M:9:ASP:HB3	4:M:111:ILE:HG22	1.84	0.58
4:M:244:VAL:HG13	4:M:472:TYR:HE2	1.65	0.58
4:M:354:ASP:CB	4:M:440:ILE:CD1	2.77	0.58
1:A:416:ILE:O	1:A:417:PRO:C	2.41	0.58
1:A:509:PRO:O	1:A:512:LEU:HB2	2.03	0.58
1:A:555:LEU:HD13	1:A:581:LEU:HD11	1.84	0.58
2:B:37:TYR:HD2	2:B:38:TYR:CE1	2.20	0.58
2:B:200:MET:CE	2:B:229:HIS:HA	2.33	0.58
2:B:364:HIS:O	2:B:368:ILE:HG12	2.03	0.58
2:B:526:CYS:N	2:B:527:PRO:HD3	2.17	0.58
4:M:47:SER:C	4:M:49:ASP:H	2.06	0.58
4:M:137:SER:O	4:M:138:ASP:C	2.45	0.58
4:M:293:PRO:CB	4:M:294:ASP:O	2.49	0.58
4:M:405:THR:O	4:M:407:THR:CG2	2.48	0.58
4:M:443:SER:CB	4:M:447:ILE:C	2.76	0.58
1:A:125:THR:CG2	1:A:158:LEU:HD13	2.34	0.58
1:A:185:LEU:CB	1:A:203:PHE:HE1	2.16	0.58
1:A:224:GLU:O	1:A:227:LYS:N	2.36	0.58
2:B:67:ILE:HG23	4:M:18:TYR:OH	2.03	0.58
2:B:80:GLN:CA	2:B:108:PHE:CE2	2.86	0.58
2:B:155:LEU:O	2:B:158:VAL:N	2.37	0.58
2:B:204:ASP:HB3	2:B:207:VAL:CG2	2.34	0.58
2:B:219:TYR:CD1	2:B:226:LEU:CB	2.82	0.58
2:B:344:VAL:CB	2:B:377:TYR:HB3	2.33	0.58
1:A:179:LYS:CE	3:S:140:MET:CB	2.66	0.58
1:A:291:ILE:HG21	1:A:322:PHE:CE2	2.37	0.58
1:A:306:GLU:O	1:A:307:ASP:C	2.38	0.58
1:A:585:PHE:HE2	1:A:603:VAL:HG12	1.49	0.58
2:B:285:GLU:C	2:B:286:ILE:O	2.24	0.58
2:B:430:ILE:CD1	2:B:466:SER:CB	2.81	0.58
2:B:534:ILE:O	2:B:535:GLN:C	2.46	0.58
3:S:15:ARG:O	3:S:125:TRP:CE2	2.57	0.58
2:B:241:ASP:OD1	2:B:241:ASP:O	2.20	0.58
2:B:333:GLN:O	2:B:336:ASN:HB2	2.03	0.58
2:B:398:ILE:O	2:B:399:LEU:C	2.46	0.58
2:B:511:ILE:O	2:B:512:VAL:C	2.35	0.58
2:B:560:ILE:HG22	2:B:561:ASP:N	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:55:PRO:HG3	3:S:71:GLU:HG2	1.85	0.58
4:M:220:GLU:HB2	4:M:222:PHE:HE1	1.66	0.58
1:A:405:THR:CB	2:B:7:ARG:HE	2.16	0.58
1:A:562:TRP:HE3	1:A:574:ILE:HD12	1.69	0.58
2:B:34:SER:OG	2:B:65:ARG:NE	2.37	0.58
2:B:260:LEU:HD22	2:B:291:TYR:CE1	2.37	0.58
2:B:404:ASN:O	2:B:408:VAL:HG23	2.04	0.58
2:B:563:PHE:O	2:B:564:LYS:O	2.21	0.58
3:S:5:VAL:HB	3:S:132:LEU:HD21	1.84	0.58
3:S:87:PHE:CE1	3:S:102:ILE:HG12	2.39	0.58
4:M:262:THR:C	4:M:264:GLY:N	2.44	0.58
1:A:244:LEU:CA	1:A:256:LEU:HD13	2.33	0.58
2:B:102:HIS:CE1	2:B:138:ALA:N	2.72	0.58
2:B:329:ALA:CB	2:B:334:MET:HG2	2.30	0.58
2:B:479:VAL:CG1	2:B:486:HIS:CG	2.70	0.58
2:B:519:ALA:O	2:B:523:PHE:CA	2.52	0.58
4:M:20:LEU:C	4:M:21:GLY:O	2.37	0.58
4:M:59:ASP:O	4:M:60:LEU:C	2.05	0.58
4:M:218:LEU:N	4:M:218:LEU:HD12	2.18	0.58
4:M:338:PHE:CE1	4:M:415:ILE:HG13	2.38	0.58
1:A:429:VAL:HG21	1:A:469:LEU:HD11	1.86	0.58
2:B:2:VAL:CG1	4:M:54:SER:HG	2.14	0.58
2:B:120:ILE:HG13	2:B:150:LEU:CD2	2.33	0.58
2:B:127:LEU:HD11	2:B:142:LEU:HD11	1.83	0.58
2:B:139:LEU:CG	2:B:176:ALA:CB	2.80	0.58
2:B:479:VAL:CB	2:B:486:HIS:CD2	2.86	0.58
2:B:553:ALA:HA	2:B:556:LEU:HD12	1.86	0.58
3:S:6:LEU:HD11	3:S:14:PRO:CB	2.32	0.58
3:S:35:VAL:HG12	3:S:75:ILE:HD13	1.85	0.58
4:M:4:SER:HB3	4:M:79:SER:OG	2.03	0.58
4:M:6:TYR:CD2	4:M:17:GLN:HG3	2.38	0.58
4:M:70:ASN:HB2	4:M:75:TRP:CD2	2.39	0.58
4:M:222:PHE:CG	4:M:240:ILE:HG12	2.38	0.58
4:M:235:LEU:CD1	4:M:306:LEU:HD13	2.34	0.58
4:M:258:VAL:CG1	4:M:449:VAL:HG13	2.31	0.58
4:M:306:LEU:O	4:M:307:SER:O	2.22	0.58
1:A:436:CYS:SG	1:A:450:TYR:CZ	2.97	0.58
2:B:100:LEU:HD23	4:M:123:LEU:CD1	2.34	0.58
2:B:226:LEU:O	2:B:226:LEU:HD12	2.04	0.58
2:B:418:TYR:HD1	2:B:418:TYR:O	1.86	0.58
2:B:493:LEU:O	2:B:496:LEU:N	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:534:ILE:HD11	2:B:591:MET:O	2.04	0.58
1:A:274:LEU:O	1:A:277:LYS:N	2.36	0.58
1:A:581:LEU:HD11	1:A:585:PHE:HZ	1.66	0.58
2:B:9:ALA:CB	4:M:14:LEU:HD12	2.33	0.58
2:B:28:SER:HA	2:B:58:GLU:HG3	1.86	0.58
2:B:103:LEU:CD2	4:M:127:CYS:SG	2.92	0.58
2:B:336:ASN:C	2:B:373:LEU:HD22	2.24	0.58
2:B:351:GLU:HB2	4:M:476:THR:HG22	1.86	0.58
2:B:546:CYS:HB2	2:B:607:ILE:HG12	1.85	0.58
4:M:241:HIS:HB2	4:M:476:THR:CG2	2.34	0.58
4:M:243:ILE:CD1	4:M:301:GLU:HB3	2.31	0.58
1:A:64:LEU:HG	1:A:102:GLN:NE2	2.18	0.57
1:A:186:PHE:CD1	1:A:187:LYS:N	2.72	0.57
1:A:278:ILE:O	1:A:280:GLU:N	2.36	0.57
1:A:293:GLU:OE1	3:S:94:SER:HB3	2.04	0.57
1:A:446:ASP:CG	1:A:448:GLU:O	2.47	0.57
1:A:556:VAL:CG2	1:A:603:VAL:CG1	2.76	0.57
2:B:104:TYR:O	2:B:107:ARG:CG	2.51	0.57
2:B:132:SER:O	2:B:133:GLU:C	2.34	0.57
2:B:364:HIS:CE1	2:B:368:ILE:HD11	2.38	0.57
2:B:472:VAL:HG11	2:B:511:ILE:H	1.68	0.57
2:B:513:TRP:CD1	2:B:517:GLU:HG2	2.39	0.57
2:B:519:ALA:O	2:B:523:PHE:CG	2.55	0.57
2:B:523:PHE:O	2:B:524:LYS:C	2.42	0.57
4:M:217:ASP:C	4:M:472:TYR:CZ	2.82	0.57
4:M:250:LEU:HD13	4:M:254:PRO:CG	2.34	0.57
4:M:479:PHE:CD1	4:M:479:PHE:N	2.57	0.57
2:B:306:LEU:CD1	2:B:325:LEU:CD2	2.83	0.57
2:B:310:ILE:HB	2:B:342:ALA:HB1	1.83	0.57
2:B:396:ILE:CD1	2:B:418:TYR:OH	2.52	0.57
2:B:566:ALA:CA	2:B:574:ASN:CB	2.82	0.57
3:S:51:LEU:HB2	3:S:77:TYR:CE1	2.40	0.57
3:S:75:ILE:HG21	3:S:77:TYR:OH	2.04	0.57
3:S:98:ILE:O	3:S:102:ILE:HG13	2.04	0.57
4:M:243:ILE:HG12	4:M:474:THR:HG22	1.84	0.57
4:M:362:PHE:HE1	4:M:374:TYR:CZ	2.21	0.57
4:M:379:LEU:CA	4:M:412:ARG:O	2.49	0.57
2:B:155:LEU:HD13	2:B:155:LEU:C	2.28	0.57
2:B:219:TYR:OH	2:B:226:LEU:N	2.37	0.57
2:B:223:LEU:CD2	2:B:258:GLN:HB2	2.33	0.57
2:B:435:SER:C	2:B:437:SER:N	2.60	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:281:LEU:O	1:A:282:MET:O	2.21	0.57
1:A:316:LEU:HD21	1:A:341:ILE:HG13	1.85	0.57
1:A:323:CYS:SG	1:A:338:PHE:HE2	2.27	0.57
1:A:462:GLN:NE2	4:M:60:LEU:O	2.37	0.57
1:A:558:VAL:CG1	1:A:562:TRP:CZ2	2.87	0.57
1:A:579:LYS:HA	1:A:582:ILE:HD12	1.85	0.57
1:A:638:LEU:HD13	2:B:557:SER:HG	1.65	0.57
2:B:278:PRO:CA	2:B:288:TYR:HB3	2.26	0.57
2:B:363:ILE:CG2	2:B:398:ILE:HG12	2.34	0.57
2:B:386:LYS:NZ	4:M:479:PHE:O	2.37	0.57
2:B:437:SER:OG	2:B:474:VAL:HA	2.04	0.57
2:B:540:GLU:OE1	2:B:548:ILE:HD12	2.04	0.57
4:M:433:VAL:O	4:M:435:LEU:HD12	2.04	0.57
1:A:92:LEU:HD13	1:A:123:LEU:CD1	2.35	0.57
2:B:20:ARG:NH2	4:M:118:TYR:CG	2.71	0.57
2:B:102:HIS:CE1	2:B:138:ALA:CA	2.87	0.57
2:B:251:LEU:O	2:B:253:ILE:N	2.38	0.57
2:B:393:ILE:HG12	2:B:428:VAL:HA	1.86	0.57
2:B:559:ASP:CB	2:B:563:PHE:CE2	2.88	0.57
3:S:17:VAL:CG2	3:S:19:PHE:CE1	2.87	0.57
4:M:104:PHE:CE2	4:M:117:ASN:CB	2.86	0.57
4:M:354:ASP:CB	4:M:440:ILE:HD11	2.33	0.57
1:A:189:PHE:HB3	1:A:225:LEU:CD2	2.35	0.57
1:A:260:PHE:CE2	1:A:274:LEU:HD11	2.40	0.57
2:B:35:TYR:C	2:B:37:TYR:N	2.63	0.57
2:B:37:TYR:O	2:B:40:GLN:C	2.48	0.57
2:B:89:ASN:C	2:B:101:ILE:HD11	2.29	0.57
2:B:116:THR:HG22	2:B:150:LEU:HD11	1.86	0.57
2:B:476:ARG:CB	2:B:514:LEU:HD13	2.35	0.57
2:B:588:ILE:HG21	2:B:618:PHE:CE1	2.40	0.57
4:M:66:PHE:CE1	4:M:79:SER:HB3	2.40	0.57
4:M:224:VAL:CG1	4:M:226:PHE:CE2	2.88	0.57
2:B:161:LEU:HB3	2:B:173:VAL:HG21	1.82	0.57
2:B:170:ARG:HA	2:B:199:LEU:CD2	2.35	0.57
2:B:347:VAL:CA	2:B:359:LEU:HG	2.33	0.57
2:B:566:ALA:C	2:B:574:ASN:ND2	2.63	0.57
3:S:167:ILE:HG22	3:S:168:GLY:HA2	1.84	0.57
4:M:41:LEU:CB	4:M:51:LEU:HA	2.34	0.57
4:M:56:VAL:H	4:M:64:LYS:CG	2.13	0.57
4:M:302:TYR:CE1	4:M:304:VAL:HB	2.40	0.57
4:M:383:HIS:HB2	4:M:403:THR:OG1	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:222:ILE:CG2	1:A:240:LEU:HD11	2.31	0.57
1:A:609:LEU:O	1:A:612:GLU:N	2.34	0.57
2:B:123:LEU:HD12	2:B:142:LEU:CD2	2.35	0.57
2:B:259:TYR:O	2:B:293:VAL:HG21	2.03	0.57
2:B:347:VAL:CG2	2:B:381:PHE:CZ	2.87	0.57
2:B:386:LYS:NZ	4:M:478:ASN:N	2.53	0.57
2:B:436:LEU:CB	2:B:454:LEU:HD21	2.34	0.57
2:B:451:MET:HG3	2:B:489:ILE:CG1	2.22	0.57
3:S:75:ILE:CG2	3:S:77:TYR:CZ	2.88	0.57
3:S:130:SER:HB2	3:S:156:LEU:HD13	1.83	0.57
4:M:271:SER:O	4:M:300:LEU:CA	2.48	0.57
4:M:273:HIS:CB	4:M:298:ARG:O	2.42	0.57
4:M:344:ILE:HD12	4:M:407:THR:O	2.03	0.57
1:A:216:SER:HB2	1:A:252:ILE:HG12	1.87	0.57
1:A:433:ILE:HG23	1:A:476:GLN:CB	2.33	0.57
2:B:34:SER:HB3	2:B:65:ARG:HH12	1.65	0.57
2:B:239:GLN:HA	4:M:279:ASN:C	2.30	0.57
4:M:5:PHE:HE2	4:M:20:LEU:HD13	1.68	0.57
1:A:492:ILE:HD13	1:A:526:VAL:CG2	2.34	0.57
1:A:517:TRP:NE1	2:B:605:PHE:CD2	2.71	0.57
2:B:162:VAL:HG22	2:B:199:LEU:HG	1.86	0.57
2:B:176:ALA:C	2:B:178:ILE:N	2.62	0.57
2:B:577:ASN:O	2:B:578:PRO:C	2.39	0.57
4:M:270:PRO:O	4:M:272:LEU:CD1	2.53	0.57
4:M:300:LEU:HD12	4:M:300:LEU:C	2.29	0.57
4:M:358:ILE:O	4:M:397:TRP:HE3	1.88	0.57
1:A:91:ILE:HG23	1:A:106:GLY:HA2	1.86	0.56
1:A:268:PRO:HA	1:A:271:ARG:HE	1.69	0.56
1:A:291:ILE:O	1:A:295:VAL:HG23	2.05	0.56
1:A:322:PHE:HB3	1:A:330:LEU:HD21	1.87	0.56
1:A:395:PHE:O	1:A:396:VAL:C	2.40	0.56
2:B:147:MET:HB2	2:B:150:LEU:HG	1.87	0.56
2:B:195:ILE:C	2:B:197:LYS:N	2.60	0.56
2:B:371:GLN:CB	2:B:401:THR:O	2.48	0.56
2:B:414:GLU:O	2:B:417:TYR:HB3	2.05	0.56
3:S:17:VAL:HG22	3:S:19:PHE:CZ	2.36	0.56
4:M:372:ILE:O	4:M:372:ILE:HG22	2.04	0.56
1:A:147:LEU:HD13	1:A:181:ALA:HA	1.87	0.56
1:A:215:VAL:HG13	1:A:243:ILE:CG2	2.13	0.56
1:A:257:LEU:CD2	1:A:278:ILE:HG22	2.33	0.56
1:A:566:PHE:C	1:A:566:PHE:CD1	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:38:TYR:C	2:B:40:GLN:N	2.62	0.56
2:B:215:TYR:HE1	2:B:229:HIS:HD1	1.52	0.56
2:B:340:ILE:HG13	2:B:373:LEU:CG	2.35	0.56
2:B:397:GLN:HG3	2:B:431:MET:HG2	1.85	0.56
2:B:527:PRO:HB3	2:B:587:ARG:HG3	1.85	0.56
3:S:8:PHE:CD2	3:S:36:TYR:HE1	2.22	0.56
3:S:53:THR:HG1	3:S:68:VAL:C	2.12	0.56
4:M:290:PHE:CE2	4:M:297:PHE:CE1	2.93	0.56
4:M:390:ILE:C	4:M:393:GLY:H	2.13	0.56
4:M:424:PHE:CE1	4:M:428:VAL:HG22	2.40	0.56
1:A:113:SER:O	1:A:115:TYR:N	2.38	0.56
1:A:150:LEU:HD22	1:A:158:LEU:HD11	1.86	0.56
1:A:226:SER:O	1:A:227:LYS:C	2.45	0.56
1:A:359:LEU:HB3	1:A:367:ILE:CG2	2.35	0.56
1:A:441:TYR:O	1:A:442:SER:C	2.46	0.56
1:A:606:PHE:HE1	1:A:633:PHE:CA	2.19	0.56
1:A:634:ASN:O	1:A:638:LEU:HB2	2.05	0.56
2:B:38:TYR:CE1	2:B:43:ASN:N	2.64	0.56
2:B:55:ASN:O	2:B:58:GLU:HB2	2.05	0.56
2:B:97:VAL:HG12	2:B:101:ILE:HD11	1.87	0.56
2:B:144:ASP:N	2:B:179:LYS:CD	2.66	0.56
2:B:212:VAL:C	2:B:214:ALA:N	2.57	0.56
2:B:293:VAL:HA	2:B:299:LEU:CB	2.35	0.56
2:B:306:LEU:HD13	2:B:325:LEU:HG	1.88	0.56
2:B:340:ILE:HG13	2:B:373:LEU:CB	2.33	0.56
2:B:513:TRP:CG	2:B:551:LEU:HD21	2.40	0.56
2:B:566:ALA:HB1	2:B:581:TYR:HB3	1.87	0.56
3:S:53:THR:CB	3:S:69:ASN:N	2.67	0.56
4:M:235:LEU:HD13	4:M:306:LEU:HB3	1.86	0.56
4:M:248:SER:C	4:M:249:TYR:CD1	2.84	0.56
4:M:260:LEU:HD23	4:M:449:VAL:HA	1.85	0.56
4:M:358:ILE:O	4:M:397:TRP:CE3	2.58	0.56
1:A:80:TYR:HB2	1:A:82:PHE:CD2	2.41	0.56
1:A:95:MET:SD	1:A:107:TYR:HD1	2.27	0.56
1:A:166:LEU:HD12	1:A:185:LEU:HD23	1.87	0.56
1:A:196:LEU:O	1:A:197:ARG:O	2.22	0.56
1:A:204:VAL:HG13	1:A:239:LEU:HD13	1.85	0.56
1:A:406:GLY:O	3:S:64:ASN:CG	2.45	0.56
1:A:462:GLN:CD	4:M:60:LEU:N	2.63	0.56
1:A:477:PHE:CZ	1:A:491:THR:HB	2.40	0.56
1:A:532:LEU:O	1:A:533:ILE:C	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:73:ASP:OD1	4:M:19:LEU:HD22	2.04	0.56
2:B:212:VAL:CG2	2:B:248:LEU:HD23	2.36	0.56
2:B:346:THR:HA	2:B:349:MET:HE3	1.87	0.56
3:S:16:LEU:HD13	3:S:129:GLU:HG2	1.88	0.56
4:M:5:PHE:CE2	4:M:20:LEU:HD11	2.38	0.56
4:M:66:PHE:HB3	4:M:77:LEU:HD11	1.88	0.56
4:M:443:SER:OG	4:M:447:ILE:O	2.23	0.56
1:A:92:LEU:HD23	1:A:95:MET:CE	2.33	0.56
1:A:128:LEU:HD13	1:A:150:LEU:CG	2.35	0.56
2:B:83:PHE:HE1	2:B:87:VAL:HG21	1.69	0.56
2:B:123:LEU:HD22	2:B:138:ALA:HA	1.87	0.56
2:B:132:SER:HB2	2:B:169:VAL:CG2	2.36	0.56
2:B:252:LEU:HB3	2:B:302:PHE:CD1	2.40	0.56
2:B:256:CYS:O	2:B:257:LYS:C	2.38	0.56
2:B:497:LEU:HB2	2:B:511:ILE:HG21	1.88	0.56
3:S:8:PHE:CD1	3:S:84:TYR:O	2.58	0.56
4:M:223:HIS:CD2	4:M:478:ASN:CA	2.87	0.56
4:M:242:GLY:HA3	4:M:444:ALA:HB2	1.86	0.56
1:A:63:ASP:OD1	1:A:64:LEU:N	2.39	0.56
2:B:68:SER:HA	4:M:18:TYR:CE1	2.41	0.56
2:B:284:ASN:O	2:B:284:ASN:CG	2.47	0.56
2:B:325:LEU:CD1	2:B:339:PHE:CD1	2.88	0.56
2:B:439:CYS:C	2:B:441:GLN:H	2.14	0.56
2:B:560:ILE:O	2:B:563:PHE:N	2.35	0.56
3:S:1:MET:SD	3:S:20:TYR:CD2	2.99	0.56
3:S:55:PRO:O	3:S:58:LEU:HB2	2.06	0.56
4:M:121:ILE:HG23	4:M:125:PHE:CE1	2.41	0.56
4:M:270:PRO:N	4:M:302:TYR:CD2	2.74	0.56
2:B:347:VAL:HG11	2:B:381:PHE:CD1	2.40	0.56
2:B:349:MET:CG	4:M:305:ASP:HB2	2.33	0.56
2:B:566:ALA:C	2:B:574:ASN:HB3	2.30	0.56
3:S:55:PRO:HB3	3:S:71:GLU:HG3	1.88	0.56
4:M:256:VAL:O	4:M:289:THR:HA	2.05	0.56
1:A:88:ASN:HB2	1:A:120:ILE:CD1	2.36	0.56
1:A:499:ILE:HG12	1:A:512:LEU:HD23	1.88	0.56
1:A:638:LEU:HD11	2:B:557:SER:O	2.05	0.56
2:B:50:LEU:CG	2:B:62:ALA:HB2	2.36	0.56
2:B:124:GLN:OE1	2:B:153:ILE:CG2	2.53	0.56
2:B:400:SER:CB	2:B:435:SER:CB	2.56	0.56
3:S:8:PHE:CE1	3:S:84:TYR:O	2.59	0.56
4:M:360:LEU:CD1	4:M:433:VAL:HB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:140:VAL:HA	1:A:177:ILE:CG1	2.36	0.56
1:A:200:PHE:HZ	1:A:236:LEU:CD2	2.14	0.56
1:A:353:ASP:OD1	1:A:378:ILE:HD12	2.05	0.56
1:A:485:PRO:O	1:A:488:ARG:HG3	2.06	0.56
1:A:513:ARG:CG	1:A:547:VAL:HG22	2.36	0.56
1:A:638:LEU:CD2	2:B:561:ASP:CB	2.83	0.56
2:B:256:CYS:SG	2:B:299:LEU:HD21	2.45	0.56
2:B:304:GLN:O	2:B:307:ASN:HB2	2.06	0.56
2:B:475:ILE:CG2	2:B:489:ILE:HG22	2.34	0.56
4:M:74:TYR:CG	4:M:114:ILE:HD11	2.40	0.56
4:M:347:PHE:CD2	4:M:350:VAL:HB	2.41	0.56
1:A:329:ASN:H	3:S:50:PHE:HE2	1.48	0.56
1:A:606:PHE:CE1	1:A:633:PHE:CA	2.88	0.56
2:B:28:SER:CA	2:B:58:GLU:CG	2.80	0.56
2:B:73:ASP:OD1	4:M:19:LEU:CG	2.53	0.56
2:B:596:LEU:HA	2:B:611:ALA:HB1	1.88	0.56
3:S:49:SER:O	3:S:77:TYR:N	2.39	0.56
4:M:15:ILE:CG2	4:M:114:ILE:CG2	2.79	0.56
4:M:462:LYS:O	4:M:464:THR:N	2.31	0.56
1:A:220:SER:O	1:A:223:CYS:CB	2.48	0.55
1:A:566:PHE:O	1:A:569:ASP:O	2.23	0.55
1:A:582:ILE:HG12	1:A:607:LEU:HB2	1.88	0.55
2:B:162:VAL:CG2	2:B:199:LEU:CD1	2.77	0.55
2:B:189:HIS:CD2	2:B:222:HIS:CG	2.93	0.55
2:B:344:VAL:CG2	2:B:374:PHE:CE1	2.83	0.55
2:B:392:SER:HB3	2:B:424:PHE:HE1	1.71	0.55
2:B:476:ARG:HD2	2:B:513:TRP:CD1	2.41	0.55
3:S:53:THR:C	3:S:69:ASN:CG	2.73	0.55
4:M:319:SER:OG	4:M:345:GLU:N	2.39	0.55
1:A:84:MET:HB3	1:A:113:SER:CB	2.36	0.55
1:A:244:LEU:O	1:A:245:VAL:C	2.47	0.55
1:A:485:PRO:C	1:A:486:SER:O	2.42	0.55
1:A:594:PHE:CZ	2:B:477:MET:SD	2.93	0.55
2:B:12:LEU:HD22	4:M:13:LYS:HG3	1.88	0.55
2:B:67:ILE:CG2	4:M:18:TYR:OH	2.54	0.55
2:B:68:SER:O	4:M:18:TYR:HD1	1.88	0.55
2:B:83:PHE:CZ	2:B:105:LEU:HG	2.40	0.55
2:B:162:VAL:O	2:B:163:THR:C	2.46	0.55
2:B:437:SER:HB2	2:B:474:VAL:HG22	1.88	0.55
2:B:517:GLU:C	2:B:519:ALA:H	2.14	0.55
2:B:534:ILE:HG21	2:B:594:ALA:CB	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:240:ILE:HB	4:M:304:VAL:CG1	2.35	0.55
4:M:323:MET:CB	4:M:340:LEU:HD11	2.30	0.55
1:A:403:LEU:HD23	1:A:422:GLU:HG3	1.87	0.55
1:A:581:LEU:CG	1:A:585:PHE:CZ	2.90	0.55
2:B:123:LEU:HD22	2:B:138:ALA:CA	2.36	0.55
2:B:399:LEU:HB3	2:B:411:ILE:HG23	1.88	0.55
4:M:69:ILE:CB	4:M:97:ASP:OD2	2.54	0.55
4:M:224:VAL:O	4:M:479:PHE:CB	2.54	0.55
4:M:327:PHE:HE1	4:M:336:ASP:CB	2.17	0.55
1:A:170:LEU:O	1:A:206:LYS:HD2	2.07	0.55
1:A:219:VAL:CG1	1:A:256:LEU:HD23	2.36	0.55
1:A:450:TYR:OH	1:A:476:GLN:CD	2.48	0.55
1:A:605:GLU:HB2	1:A:636:TYR:HE2	1.72	0.55
2:B:29:LYS:HG3	2:B:29:LYS:O	2.06	0.55
2:B:107:ARG:CZ	4:M:20:LEU:CD2	2.33	0.55
2:B:309:LEU:HD12	2:B:317:VAL:HG11	1.88	0.55
2:B:363:ILE:HD12	2:B:374:PHE:CD1	2.41	0.55
2:B:440:GLY:C	2:B:442:LEU:H	2.12	0.55
2:B:490:ILE:HG13	2:B:518:ILE:HG12	1.88	0.55
3:S:35:VAL:O	3:S:39:ILE:HG12	2.06	0.55
4:M:213:GLU:C	4:M:467:TYR:HB2	2.31	0.55
4:M:243:ILE:CG1	4:M:473:LYS:O	2.54	0.55
4:M:383:HIS:ND1	4:M:403:THR:OG1	2.39	0.55
1:A:107:TYR:CE1	1:A:128:LEU:HD23	2.40	0.55
1:A:320:HIS:O	1:A:322:PHE:N	2.39	0.55
1:A:488:ARG:HD2	1:A:522:PHE:CD2	2.41	0.55
2:B:231:ARG:C	2:B:233:TYR:N	2.62	0.55
2:B:564:LYS:HE3	2:B:621:GLY:C	2.32	0.55
3:S:53:THR:CG2	3:S:67:GLU:O	2.55	0.55
4:M:45:SER:O	4:M:75:TRP:HZ2	1.89	0.55
4:M:253:ASN:N	4:M:254:PRO:CD	2.69	0.55
4:M:316:ARG:HG3	4:M:322:LEU:CD1	2.36	0.55
4:M:424:PHE:CZ	4:M:428:VAL:CG2	2.89	0.55
4:M:424:PHE:HZ	4:M:428:VAL:HG23	1.70	0.55
1:A:121:LEU:HG	1:A:158:LEU:HD22	1.87	0.55
1:A:477:PHE:CE2	1:A:491:THR:HB	2.42	0.55
1:A:625:LEU:CD1	1:A:629:LEU:HB2	2.36	0.55
2:B:12:LEU:HB3	4:M:13:LYS:CE	2.36	0.55
2:B:317:VAL:O	2:B:321:CYS:SG	2.59	0.55
2:B:377:TYR:O	2:B:380:LYS:CB	2.53	0.55
4:M:69:ILE:HD12	4:M:94:GLU:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:275:LEU:O	1:A:277:LYS:N	2.38	0.55
1:A:405:THR:O	2:B:7:ARG:NH2	2.39	0.55
2:B:5:ILE:HD13	4:M:42:LEU:CD1	2.25	0.55
2:B:64:LYS:HZ2	4:M:120:ARG:HH12	1.45	0.55
2:B:219:TYR:CE2	2:B:226:LEU:CA	2.77	0.55
2:B:347:VAL:CB	2:B:381:PHE:HE1	2.13	0.55
2:B:390:VAL:HG12	2:B:394:TRP:CD1	2.41	0.55
2:B:418:TYR:CZ	2:B:432:ALA:CB	2.88	0.55
3:S:38:LEU:HB3	3:S:51:LEU:HD13	1.89	0.55
4:M:65:TYR:CD2	4:M:86:PRO:HA	2.42	0.55
4:M:69:ILE:HG12	4:M:90:PHE:CE1	2.42	0.55
4:M:92:PHE:CE2	4:M:128:CYS:CB	2.90	0.55
4:M:258:VAL:CG1	4:M:449:VAL:HG22	2.37	0.55
1:A:158:LEU:HG	1:A:162:ILE:HD11	1.87	0.55
1:A:180:LYS:HZ3	3:S:137:GLN:HB2	1.71	0.55
1:A:185:LEU:CB	1:A:203:PHE:CE1	2.89	0.55
1:A:203:PHE:CE2	1:A:221:VAL:HG11	2.41	0.55
1:A:244:LEU:HD13	1:A:256:LEU:HB2	1.87	0.55
1:A:384:LEU:HD12	1:A:384:LEU:C	2.30	0.55
2:B:185:LYS:CE	2:B:221:ASP:OD2	2.54	0.55
2:B:308:CYS:O	2:B:311:TYR:N	2.40	0.55
4:M:244:VAL:CB	4:M:472:TYR:CE2	2.90	0.55
4:M:305:ASP:O	4:M:307:SER:N	2.39	0.55
4:M:386:PHE:HB2	4:M:397:TRP:CD1	2.42	0.55
1:A:104:ARG:HG3	1:A:145:ILE:HG13	1.89	0.55
1:A:189:PHE:O	1:A:190:LEU:C	2.48	0.55
1:A:245:VAL:O	1:A:245:VAL:HG22	2.07	0.55
1:A:260:PHE:O	1:A:261:THR:O	2.21	0.55
1:A:425:LYS:HD2	1:A:428:MET:HE3	1.89	0.55
2:B:318:ILE:CD1	2:B:346:THR:HG23	2.37	0.55
2:B:418:TYR:HD1	2:B:424:PHE:CD2	2.25	0.55
2:B:453:TRP:HA	2:B:453:TRP:CE3	2.42	0.55
2:B:518:ILE:O	2:B:518:ILE:CG1	2.54	0.55
3:S:15:ARG:CZ	3:S:122:ILE:HD11	2.37	0.55
4:M:16:PHE:HD1	4:M:118:TYR:CE2	2.25	0.55
4:M:222:PHE:C	4:M:479:PHE:HZ	2.05	0.55
4:M:316:ARG:HG2	4:M:322:LEU:HD13	1.88	0.55
1:A:244:LEU:HD23	1:A:277:LYS:HG3	1.88	0.55
1:A:408:ILE:HA	3:S:64:ASN:HB2	1.87	0.55
1:A:581:LEU:HB3	1:A:607:LEU:CD1	2.35	0.55
2:B:120:ILE:CD1	2:B:142:LEU:CD2	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:291:TYR:CD2	2:B:294:VAL:HB	2.42	0.55
2:B:346:THR:O	2:B:349:MET:HB2	2.06	0.55
2:B:563:PHE:CD1	2:B:584:SER:HB3	2.31	0.55
3:S:4:ALA:CA	3:S:18:LYS:O	2.50	0.55
4:M:260:LEU:CD2	4:M:449:VAL:CG2	2.81	0.55
4:M:290:PHE:HZ	4:M:293:PRO:CG	2.20	0.55
1:A:516:ILE:HG21	1:A:551:LEU:HA	1.88	0.54
1:A:581:LEU:CD2	1:A:607:LEU:HD21	2.32	0.54
2:B:20:ARG:NH1	4:M:118:TYR:CA	2.57	0.54
2:B:171:GLY:HA3	2:B:207:VAL:HA	1.89	0.54
2:B:398:ILE:HG23	2:B:402:LEU:HD11	1.87	0.54
2:B:568:VAL:C	2:B:574:ASN:ND2	2.65	0.54
3:S:7:ILE:O	3:S:15:ARG:N	2.38	0.54
4:M:54:SER:HB2	4:M:66:PHE:HE2	1.71	0.54
4:M:212:ASN:CG	4:M:250:LEU:HD23	2.32	0.54
4:M:219:LEU:CG	4:M:440:ILE:HG12	2.36	0.54
4:M:262:THR:HG23	4:M:265:ASN:O	2.07	0.54
4:M:316:ARG:O	4:M:317:MET:C	2.45	0.54
4:M:435:LEU:O	4:M:437:TYR:CE1	2.60	0.54
1:A:102:GLN:HE22	3:S:166:LYS:NZ	2.05	0.54
1:A:263:LEU:O	1:A:266:VAL:C	2.51	0.54
1:A:373:GLU:HG2	1:A:427:LYS:NZ	2.22	0.54
1:A:436:CYS:HB3	1:A:476:GLN:NE2	2.22	0.54
1:A:484:VAL:O	1:A:486:SER:O	2.25	0.54
1:A:584:PHE:O	1:A:587:ASN:N	2.40	0.54
2:B:17:VAL:HG23	2:B:36:THR:HA	1.88	0.54
2:B:28:SER:HA	2:B:58:GLU:CG	2.37	0.54
2:B:38:TYR:CE2	2:B:43:ASN:H	1.61	0.54
2:B:537:PHE:CD1	2:B:598:LEU:HB3	2.42	0.54
2:B:537:PHE:HE2	2:B:545:ARG:HB3	1.67	0.54
2:B:563:PHE:CE2	2:B:588:ILE:HD12	2.42	0.54
3:S:17:VAL:HG21	3:S:19:PHE:CE1	2.39	0.54
3:S:50:PHE:O	3:S:51:LEU:HD23	2.07	0.54
3:S:60:SER:O	3:S:66:ASP:HB2	2.07	0.54
4:M:7:ILE:HG13	4:M:16:PHE:HD2	1.72	0.54
4:M:242:GLY:O	4:M:302:TYR:N	2.38	0.54
1:A:150:LEU:HB3	1:A:162:ILE:HD13	1.89	0.54
1:A:438:ALA:O	1:A:441:TYR:HD1	1.91	0.54
2:B:79:VAL:CG2	2:B:108:PHE:CE2	2.81	0.54
2:B:188:TYR:HB3	2:B:192:LEU:HD13	1.87	0.54
2:B:217:GLU:O	2:B:218:CYS:C	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:375:LEU:CG	2:B:404:ASN:HB2	2.37	0.54
2:B:453:TRP:HA	2:B:453:TRP:HE3	1.72	0.54
3:S:53:THR:CB	3:S:68:VAL:CA	2.82	0.54
4:M:45:SER:HB2	4:M:75:TRP:CE2	2.42	0.54
1:A:261:THR:O	1:A:264:SER:OG	2.18	0.54
1:A:288:THR:CG2	3:S:96:LEU:HD21	2.27	0.54
2:B:106:LEU:HB3	4:M:130:GLU:HG3	1.88	0.54
2:B:392:SER:HB3	2:B:424:PHE:CE1	2.42	0.54
2:B:408:VAL:CG1	2:B:446:TRP:HB3	2.38	0.54
2:B:474:VAL:C	2:B:476:ARG:N	2.64	0.54
2:B:578:PRO:CD	2:B:581:TYR:CD2	2.73	0.54
4:M:259:LYS:O	4:M:450:GLU:N	2.41	0.54
4:M:352:GLN:CG	4:M:440:ILE:HB	2.36	0.54
1:A:585:PHE:CD2	1:A:603:VAL:HG12	2.40	0.54
1:A:594:PHE:CZ	2:B:477:MET:CE	2.90	0.54
2:B:230:PHE:HD1	2:B:298:ASP:CB	2.18	0.54
2:B:310:ILE:CG1	2:B:321:CYS:HB2	2.38	0.54
4:M:51:LEU:HD22	4:M:68:VAL:HG11	1.88	0.54
4:M:325:LEU:HD23	4:M:325:LEU:O	2.07	0.54
4:M:436:GLU:HA	4:M:479:PHE:CD1	2.42	0.54
1:A:71:VAL:HG11	1:A:105:VAL:HG12	1.88	0.54
1:A:244:LEU:CD1	1:A:281:LEU:HD11	2.36	0.54
1:A:532:LEU:O	1:A:533:ILE:O	2.25	0.54
2:B:9:ALA:C	4:M:14:LEU:HD13	2.32	0.54
2:B:73:ASP:HA	2:B:75:ASP:OD1	2.08	0.54
2:B:73:ASP:HA	4:M:24:ALA:HB3	1.89	0.54
2:B:83:PHE:CE2	2:B:105:LEU:HA	2.43	0.54
2:B:97:VAL:HG12	2:B:101:ILE:HD12	1.89	0.54
2:B:313:SER:HB3	4:M:269:ILE:CA	2.36	0.54
2:B:351:GLU:CB	4:M:476:THR:HG22	2.32	0.54
2:B:374:PHE:O	2:B:374:PHE:CD2	2.60	0.54
4:M:96:ILE:HG23	4:M:125:PHE:HE1	1.61	0.54
4:M:213:GLU:CB	4:M:467:TYR:HB2	2.37	0.54
4:M:319:SER:O	4:M:323:MET:SD	2.65	0.54
1:A:488:ARG:HG2	1:A:522:PHE:CE2	2.43	0.54
1:A:606:PHE:HE1	1:A:633:PHE:N	2.06	0.54
2:B:293:VAL:HA	2:B:299:LEU:HB2	1.88	0.54
2:B:334:MET:C	2:B:336:ASN:N	2.44	0.54
2:B:343:LEU:HD21	2:B:363:ILE:N	2.23	0.54
2:B:398:ILE:HG22	2:B:402:LEU:HD12	1.89	0.54
2:B:564:LYS:CE	2:B:621:GLY:C	2.79	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:106:LYS:HZ3	4:M:296:LYS:HE3	1.72	0.54
4:M:215:TYR:O	4:M:246:VAL:CG1	2.54	0.54
4:M:253:ASN:OD1	4:M:292:PRO:CD	2.56	0.54
4:M:279:ASN:ND2	4:M:283:PHE:CE2	2.76	0.54
1:A:241:TYR:C	1:A:241:TYR:CD1	2.86	0.54
2:B:86:VAL:CG1	2:B:101:ILE:HG23	2.31	0.54
2:B:170:ARG:HH12	2:B:198:GLU:HG2	1.73	0.54
2:B:214:ALA:O	2:B:216:LYS:N	2.41	0.54
2:B:430:ILE:HD13	2:B:466:SER:HB3	1.89	0.54
3:S:112:CYS:HB2	3:S:113:PHE:CE1	2.43	0.54
4:M:19:LEU:CD2	4:M:24:ALA:HB3	2.37	0.54
4:M:270:PRO:CA	4:M:302:TYR:HD2	2.21	0.54
4:M:272:LEU:HD12	4:M:272:LEU:N	2.22	0.54
1:A:134:TYR:O	1:A:135:ASP:C	2.47	0.54
1:A:241:TYR:C	1:A:242:GLU:O	2.27	0.54
1:A:365:VAL:HG11	3:S:63:ASN:HB3	1.90	0.54
1:A:455:MET:HG2	1:A:498:LEU:HD11	1.90	0.54
1:A:588:LEU:C	1:A:590:TYR:N	2.63	0.54
1:A:594:PHE:CZ	2:B:477:MET:HE1	2.42	0.54
1:A:628:VAL:O	1:A:631:SER:OG	2.07	0.54
2:B:35:TYR:HE1	4:M:118:TYR:HH	1.53	0.54
2:B:422:ALA:HB3	2:B:424:PHE:CZ	2.39	0.54
2:B:429:VAL:HG11	2:B:467:VAL:HG11	1.89	0.54
2:B:566:ALA:HB2	2:B:581:TYR:CG	2.42	0.54
3:S:8:PHE:CZ	3:S:84:TYR:HB3	2.41	0.54
3:S:57:LEU:HD23	3:S:66:ASP:HA	1.90	0.54
4:M:20:LEU:CD1	4:M:129:VAL:HG21	2.37	0.54
4:M:41:LEU:CD1	4:M:52:ASP:HB2	2.38	0.54
4:M:338:PHE:CE1	4:M:415:ILE:CG1	2.90	0.54
4:M:390:ILE:O	4:M:393:GLY:N	2.41	0.54
1:A:552:ILE:O	1:A:556:VAL:HG23	2.08	0.54
2:B:87:VAL:O	2:B:90:ILE:HG22	2.07	0.54
2:B:106:LEU:HD21	4:M:131:ALA:N	2.23	0.54
2:B:120:ILE:HG23	2:B:142:LEU:HD22	1.90	0.54
2:B:292:GLU:HG3	2:B:296:ASP:CB	2.37	0.54
2:B:340:ILE:HD11	2:B:366:LEU:HB3	1.90	0.54
2:B:418:TYR:CD1	2:B:419:VAL:CA	2.91	0.54
2:B:549:LEU:HD22	2:B:607:ILE:O	2.07	0.54
4:M:100:LEU:HD11	4:M:121:ILE:HG23	1.90	0.54
4:M:126:ASN:C	4:M:128:CYS:N	2.66	0.54
4:M:226:PHE:CE2	4:M:321:GLY:C	2.86	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:270:PRO:CB	4:M:288:ILE:HD11	2.38	0.54
1:A:155:THR:O	1:A:158:LEU:HB3	2.08	0.53
1:A:206:LYS:C	1:A:208:ASP:N	2.65	0.53
1:A:312:ALA:O	1:A:315:CYS:HB2	2.08	0.53
2:B:16:LYS:NZ	4:M:111:ILE:HG13	2.12	0.53
2:B:154:ILE:O	2:B:157:THR:HB	2.08	0.53
2:B:200:MET:HE1	2:B:229:HIS:HA	1.89	0.53
2:B:293:VAL:C	2:B:299:LEU:CG	2.50	0.53
2:B:482:ASN:N	2:B:483:PRO:HD3	2.23	0.53
2:B:494:ALA:HB2	2:B:515:PHE:CE2	2.44	0.53
2:B:562:ASN:ND2	2:B:580:TYR:HD2	2.06	0.53
3:S:58:LEU:HD22	3:S:70:ASN:HA	1.89	0.53
4:M:223:HIS:NE2	4:M:436:GLU:CB	2.71	0.53
4:M:323:MET:CE	4:M:437:TYR:HE2	2.21	0.53
1:A:223:CYS:HB2	1:A:259:LEU:HD12	1.90	0.53
1:A:332:TYR:CE2	1:A:336:ILE:CD1	2.91	0.53
1:A:562:TRP:O	1:A:566:PHE:N	2.41	0.53
1:A:638:LEU:O	2:B:558:TYR:HA	2.08	0.53
2:B:191:GLU:O	2:B:193:LEU:N	2.40	0.53
2:B:234:CYS:HB3	2:B:301:LEU:CB	2.37	0.53
2:B:254:LYS:O	2:B:257:LYS:N	2.41	0.53
2:B:330:SER:O	2:B:332:LEU:N	2.41	0.53
2:B:349:MET:HG2	4:M:305:ASP:CB	2.37	0.53
2:B:472:VAL:HG12	2:B:510:GLY:CA	2.36	0.53
4:M:45:SER:O	4:M:75:TRP:CZ2	2.61	0.53
4:M:218:LEU:HD21	4:M:449:VAL:HG23	1.91	0.53
1:A:264:SER:CB	1:A:271:ARG:CG	2.87	0.53
1:A:364:ASP:OD1	3:S:65:ASN:ND2	2.41	0.53
1:A:384:LEU:CD1	1:A:385:LYS:N	2.71	0.53
1:A:395:PHE:CD2	1:A:428:MET:CE	2.92	0.53
1:A:513:ARG:HG2	1:A:547:VAL:HA	1.90	0.53
2:B:38:TYR:CD1	2:B:38:TYR:N	2.74	0.53
2:B:193:LEU:O	2:B:229:HIS:CE1	2.61	0.53
2:B:284:ASN:C	2:B:285:GLU:O	2.31	0.53
2:B:367:SER:HB3	2:B:401:THR:OG1	2.08	0.53
2:B:513:TRP:CD1	2:B:517:GLU:CG	2.91	0.53
3:S:1:MET:N	3:S:93:GLU:CD	2.66	0.53
3:S:6:LEU:HD21	3:S:36:TYR:CE2	2.43	0.53
3:S:48:SER:HG	3:S:50:PHE:H	1.52	0.53
3:S:68:VAL:O	3:S:75:ILE:HD12	2.08	0.53
4:M:240:ILE:CG2	4:M:444:ALA:O	2.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:347:PHE:CZ	4:M:350:VAL:CG1	2.63	0.53
1:A:174:ARG:O	1:A:177:ILE:HB	2.09	0.53
1:A:481:MET:CE	1:A:518:CYS:HB3	2.38	0.53
2:B:196:LEU:CB	2:B:215:TYR:OH	2.57	0.53
2:B:344:VAL:HG22	2:B:374:PHE:CD1	2.42	0.53
2:B:546:CYS:HA	2:B:607:ILE:HG12	1.91	0.53
3:S:64:ASN:C	3:S:66:ASP:N	2.66	0.53
4:M:3:LEU:HA	4:M:79:SER:O	2.08	0.53
4:M:5:PHE:O	4:M:18:TYR:N	2.42	0.53
4:M:44:ASP:CG	4:M:50:TYR:CE2	2.86	0.53
4:M:69:ILE:HD12	4:M:93:LEU:C	2.33	0.53
4:M:224:VAL:CG2	4:M:306:LEU:CD1	2.86	0.53
1:A:169:MET:C	1:A:171:ASN:N	2.65	0.53
1:A:338:PHE:HE1	1:A:352:PHE:CZ	2.26	0.53
1:A:441:TYR:C	1:A:443:SER:N	2.56	0.53
2:B:20:ARG:HH12	4:M:118:TYR:HB3	0.71	0.53
2:B:172:GLU:O	2:B:174:ALA:N	2.41	0.53
2:B:214:ALA:C	2:B:216:LYS:N	2.65	0.53
2:B:364:HIS:ND1	2:B:397:GLN:HB3	2.24	0.53
2:B:437:SER:HA	2:B:474:VAL:HG13	1.83	0.53
2:B:513:TRP:NE1	2:B:517:GLU:HG2	2.23	0.53
3:S:35:VAL:CG1	3:S:75:ILE:HD13	2.39	0.53
4:M:5:PHE:CE2	4:M:92:PHE:CE1	2.97	0.53
4:M:6:TYR:N	4:M:77:LEU:O	2.33	0.53
4:M:15:ILE:CG2	4:M:115:VAL:HG23	2.34	0.53
4:M:71:LYS:O	4:M:74:TYR:CE2	2.61	0.53
4:M:78:ALA:HB2	4:M:93:LEU:HG	1.90	0.53
1:A:304:LEU:HD23	1:A:304:LEU:C	2.34	0.53
1:A:536:MET:HB3	1:A:555:LEU:HD21	1.89	0.53
2:B:29:LYS:HB3	2:B:58:GLU:OE2	2.09	0.53
2:B:178:ILE:HA	2:B:218:CYS:HB2	1.91	0.53
2:B:374:PHE:HZ	2:B:381:PHE:CG	2.13	0.53
2:B:566:ALA:O	2:B:574:ASN:HB3	2.08	0.53
2:B:599:ALA:O	2:B:600:LYS:C	2.52	0.53
4:M:93:LEU:O	4:M:96:ILE:HB	2.08	0.53
4:M:374:TYR:O	4:M:390:ILE:CD1	2.48	0.53
4:M:424:PHE:CZ	4:M:428:VAL:HG22	2.43	0.53
1:A:301:GLY:O	1:A:302:ASN:CB	2.53	0.53
2:B:112:ASP:C	2:B:112:ASP:OD1	2.51	0.53
2:B:219:TYR:C	2:B:221:ASP:N	2.59	0.53
2:B:230:PHE:HZ	2:B:302:PHE:HB2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:260:LEU:CD2	2:B:293:VAL:HG11	2.39	0.53
2:B:309:LEU:O	2:B:312:SER:HB3	2.08	0.53
2:B:310:ILE:CD1	2:B:321:CYS:CB	2.78	0.53
2:B:344:VAL:HG22	2:B:381:PHE:HE2	1.74	0.53
3:S:16:LEU:HA	3:S:125:TRP:HZ2	1.70	0.53
3:S:38:LEU:HB3	3:S:51:LEU:HD11	1.89	0.53
3:S:109:LEU:CD1	3:S:113:PHE:CD1	2.88	0.53
4:M:69:ILE:HD12	4:M:94:GLU:HA	1.90	0.53
4:M:92:PHE:HZ	4:M:125:PHE:O	1.91	0.53
4:M:217:ASP:O	4:M:472:TYR:CG	2.62	0.53
4:M:221:THR:CA	4:M:474:THR:OG1	2.55	0.53
4:M:262:THR:CG2	4:M:265:ASN:O	2.57	0.53
4:M:443:SER:HA	4:M:447:ILE:HG13	1.90	0.53
1:A:114:PHE:CE2	1:A:153:ILE:HA	2.39	0.53
1:A:149:GLY:O	1:A:152:THR:N	2.42	0.53
1:A:516:ILE:CG2	1:A:554:ALA:HB2	2.39	0.53
2:B:17:VAL:CB	2:B:35:TYR:CE2	2.91	0.53
2:B:127:LEU:HD22	2:B:157:THR:HG21	1.91	0.53
2:B:136:CYS:HB3	2:B:172:GLU:HG2	1.87	0.53
2:B:266:VAL:CG1	2:B:275:ARG:HB3	2.39	0.53
2:B:534:ILE:HG21	2:B:594:ALA:HB3	1.91	0.53
2:B:546:CYS:CA	2:B:607:ILE:HG12	2.38	0.53
3:S:49:SER:C	3:S:77:TYR:HB2	2.33	0.53
4:M:245:ASP:N	4:M:472:TYR:CD2	2.71	0.53
4:M:261:ASN:CB	4:M:450:GLU:HG2	2.34	0.53
1:A:379:VAL:HG11	1:A:441:TYR:HH	1.74	0.53
1:A:566:PHE:HZ	1:A:618:THR:O	1.91	0.53
2:B:161:LEU:C	2:B:173:VAL:HG21	2.34	0.53
2:B:253:ILE:HD11	2:B:324:ALA:HB2	1.90	0.53
2:B:371:GLN:OE1	2:B:442:LEU:HD11	2.08	0.53
2:B:408:VAL:HB	2:B:446:TRP:CG	2.44	0.53
2:B:613:MET:HE2	2:B:617:LEU:HD11	1.90	0.53
4:M:5:PHE:CE2	4:M:20:LEU:HD13	2.43	0.53
4:M:432:THR:CB	4:M:480:GLN:HG3	2.24	0.53
1:A:185:LEU:HD13	1:A:203:PHE:HE1	1.73	0.53
2:B:14:THR:OG1	2:B:40:GLN:CG	2.57	0.53
2:B:34:SER:O	2:B:37:TYR:CA	2.57	0.53
2:B:70:MET:HE1	2:B:107:ARG:HB2	1.87	0.53
2:B:103:LEU:CB	4:M:126:ASN:HD22	1.95	0.53
2:B:151:ALA:HB1	2:B:188:TYR:CD2	2.43	0.53
2:B:174:ALA:HB3	2:B:211:ALA:HA	1.83	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:177:ILE:HB	2:B:196:LEU:HD21	1.91	0.53
2:B:267:ASP:O	2:B:268:LYS:C	2.46	0.53
2:B:293:VAL:HA	2:B:299:LEU:CG	2.37	0.53
3:S:131:VAL:O	3:S:135:ILE:HG13	2.08	0.53
4:M:229:LYS:HG2	4:M:230:LYS:HG3	1.90	0.53
4:M:317:MET:CB	4:M:320:ILE:O	2.56	0.53
1:A:68:THR:CB	3:S:166:LYS:CB	2.71	0.52
1:A:95:MET:CB	1:A:127:LEU:HD23	2.39	0.52
1:A:219:VAL:HG13	1:A:259:LEU:HD13	1.92	0.52
1:A:399:ASP:N	1:A:418:ILE:CG1	2.72	0.52
2:B:28:SER:C	2:B:58:GLU:CD	2.75	0.52
2:B:100:LEU:HD23	4:M:123:LEU:HD11	1.91	0.52
2:B:133:GLU:HA	2:B:168:MET:SD	2.49	0.52
2:B:267:ASP:N	2:B:276:SER:HB3	2.25	0.52
2:B:325:LEU:O	2:B:326:TYR:C	2.38	0.52
2:B:393:ILE:HG23	2:B:431:MET:CB	2.39	0.52
2:B:416:LYS:HG3	2:B:457:HIS:CE1	2.43	0.52
2:B:515:PHE:HA	2:B:518:ILE:HG22	1.92	0.52
3:S:131:VAL:HG22	3:S:153:VAL:CG2	2.36	0.52
4:M:12:ASN:OD1	4:M:42:LEU:HB3	2.09	0.52
4:M:51:LEU:CB	4:M:68:VAL:CB	2.87	0.52
4:M:96:ILE:CD1	4:M:125:PHE:CD1	2.83	0.52
4:M:224:VAL:O	4:M:479:PHE:CA	2.57	0.52
4:M:347:PHE:CE1	4:M:439:TYR:CD1	2.96	0.52
4:M:373:ALA:O	4:M:417:TYR:HA	2.08	0.52
4:M:405:THR:O	4:M:406:GLY:C	2.48	0.52
4:M:428:VAL:O	4:M:430:LEU:HA	2.08	0.52
4:M:449:VAL:CG1	4:M:452:ILE:CG1	2.82	0.52
1:A:68:THR:CB	3:S:166:LYS:CD	2.87	0.52
1:A:104:ARG:HG3	1:A:145:ILE:CG1	2.39	0.52
1:A:104:ARG:HG3	1:A:145:ILE:HD12	1.90	0.52
1:A:301:GLY:O	1:A:302:ASN:HB3	2.09	0.52
1:A:531:ASP:C	1:A:534:LYS:O	2.52	0.52
2:B:236:ILE:O	2:B:239:GLN:HB2	2.09	0.52
2:B:259:TYR:HD1	2:B:261:PRO:CB	2.21	0.52
2:B:303:LEU:HD22	2:B:339:PHE:HZ	1.63	0.52
2:B:307:ASN:ND2	2:B:338:LYS:CB	2.72	0.52
2:B:328:LEU:O	2:B:330:SER:N	2.42	0.52
2:B:592:TYR:CD2	2:B:618:PHE:CE2	2.97	0.52
3:S:49:SER:O	3:S:77:TYR:CA	2.57	0.52
4:M:222:PHE:HA	4:M:240:ILE:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:277:GLU:N	4:M:289:THR:O	2.38	0.52
4:M:374:TYR:HE1	4:M:393:GLY:CA	2.21	0.52
1:A:326:GLN:O	1:A:328:PRO:HD3	2.09	0.52
1:A:409:VAL:HG22	1:A:410:TYR:N	2.25	0.52
2:B:14:THR:HB	2:B:40:GLN:HE21	1.74	0.52
2:B:143:SER:O	2:B:179:LYS:HD3	2.06	0.52
2:B:158:VAL:CG1	2:B:177:ILE:HD11	2.39	0.52
2:B:302:PHE:HE1	2:B:306:LEU:HD21	1.74	0.52
2:B:374:PHE:CZ	2:B:398:ILE:HG21	2.44	0.52
2:B:429:VAL:O	2:B:433:VAL:HG23	2.09	0.52
2:B:437:SER:CB	2:B:474:VAL:CG1	2.40	0.52
2:B:537:PHE:CZ	2:B:545:ARG:HG2	2.45	0.52
3:S:49:SER:O	3:S:77:TYR:CB	2.57	0.52
4:M:6:TYR:HD2	4:M:17:GLN:CG	2.19	0.52
4:M:48:ASP:O	4:M:70:ASN:CB	2.44	0.52
1:A:69:ASN:OD1	3:S:166:LYS:O	2.27	0.52
1:A:92:LEU:HD13	1:A:123:LEU:HD13	1.91	0.52
2:B:24:ALA:O	2:B:27:THR:OG1	2.25	0.52
2:B:25:VAL:CG2	2:B:30:LEU:O	2.33	0.52
2:B:215:TYR:HB3	2:B:226:LEU:CD1	2.40	0.52
2:B:383:VAL:O	2:B:383:VAL:HG13	2.09	0.52
2:B:527:PRO:HB3	2:B:587:ARG:CG	2.38	0.52
2:B:553:ALA:O	2:B:556:LEU:HB2	2.09	0.52
2:B:572:GLU:C	2:B:574:ASN:N	2.66	0.52
4:M:267:ILE:HG23	4:M:445:SER:OG	2.10	0.52
1:A:185:LEU:CD1	1:A:203:PHE:HE1	2.22	0.52
1:A:516:ILE:HD13	1:A:551:LEU:HB2	1.91	0.52
2:B:178:ILE:HD11	2:B:215:TYR:CA	2.37	0.52
2:B:230:PHE:CZ	2:B:302:PHE:HB2	2.45	0.52
2:B:234:CYS:CB	2:B:301:LEU:CB	2.88	0.52
2:B:245:GLN:CG	2:B:309:LEU:HD11	2.35	0.52
2:B:252:LEU:O	2:B:328:LEU:HD21	2.10	0.52
2:B:293:VAL:O	2:B:299:LEU:HD11	1.94	0.52
2:B:310:ILE:HG22	2:B:342:ALA:CB	2.31	0.52
2:B:333:GLN:O	2:B:336:ASN:N	2.33	0.52
2:B:433:VAL:C	2:B:474:VAL:CG2	2.82	0.52
4:M:245:ASP:O	4:M:472:TYR:OH	2.28	0.52
4:M:360:LEU:HD13	4:M:433:VAL:HB	1.91	0.52
4:M:435:LEU:HB2	4:M:437:TYR:HE1	1.71	0.52
1:A:64:LEU:HA	1:A:102:GLN:HE22	1.73	0.52
1:A:395:PHE:CE2	1:A:420:ILE:CD1	2.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:35:TYR:O	2:B:37:TYR:N	2.42	0.52
2:B:253:ILE:CG1	2:B:324:ALA:CA	2.82	0.52
2:B:294:VAL:CA	2:B:299:LEU:HD12	2.39	0.52
2:B:318:ILE:HD12	2:B:346:THR:CG2	2.40	0.52
2:B:456:ASP:O	2:B:460:SER:OG	2.28	0.52
4:M:5:PHE:CD2	4:M:20:LEU:HD11	2.44	0.52
4:M:71:LYS:CG	4:M:74:TYR:OH	2.57	0.52
4:M:342:LEU:HD12	4:M:342:LEU:N	2.24	0.52
2:B:14:THR:CB	2:B:40:GLN:CG	2.88	0.52
2:B:16:LYS:NZ	4:M:111:ILE:HB	2.25	0.52
2:B:25:VAL:CG2	2:B:31:GLY:C	2.82	0.52
2:B:29:LYS:HB3	2:B:58:GLU:OE1	2.09	0.52
2:B:120:ILE:HD12	2:B:142:LEU:HD23	1.89	0.52
2:B:143:SER:O	2:B:145:MET:N	2.42	0.52
2:B:209:SER:O	2:B:212:VAL:HB	2.09	0.52
2:B:249:ILE:HG22	2:B:324:ALA:HB2	1.91	0.52
2:B:270:SER:C	2:B:273:SER:HB2	2.34	0.52
2:B:302:PHE:CE1	2:B:306:LEU:HD11	2.45	0.52
2:B:313:SER:OG	4:M:269:ILE:HG22	2.10	0.52
2:B:318:ILE:HD12	2:B:346:THR:HG23	1.91	0.52
3:S:1:MET:SD	3:S:20:TYR:CE2	3.03	0.52
4:M:288:ILE:HD12	4:M:300:LEU:HD23	1.92	0.52
4:M:334:ASP:O	4:M:416:GLU:CA	2.57	0.52
4:M:356:LEU:HD23	4:M:356:LEU:O	2.07	0.52
1:A:258:LYS:NZ	3:S:94:SER:N	2.58	0.52
1:A:536:MET:SD	1:A:551:LEU:HD12	2.50	0.52
2:B:83:PHE:HE1	2:B:87:VAL:CG2	2.20	0.52
2:B:211:ALA:C	2:B:233:TYR:CZ	2.85	0.52
2:B:267:ASP:HB3	2:B:289:PRO:HG3	1.90	0.52
2:B:318:ILE:HG21	2:B:346:THR:HB	1.91	0.52
2:B:454:LEU:O	2:B:457:HIS:HB2	2.09	0.52
4:M:2:TYR:CZ	4:M:64:LYS:NZ	2.75	0.52
4:M:458:LEU:HD13	4:M:464:THR:CG2	2.39	0.52
1:A:451:ASN:OD1	1:A:480:LEU:HD12	2.10	0.52
1:A:536:MET:HG2	1:A:551:LEU:HD13	1.91	0.52
1:A:563:CYS:O	1:A:566:PHE:CD2	2.62	0.52
2:B:14:THR:OG1	2:B:40:GLN:NE2	2.43	0.52
2:B:170:ARG:HG2	2:B:199:LEU:HD23	1.92	0.52
2:B:216:LYS:HZ1	4:M:136:VAL:CG2	2.22	0.52
2:B:375:LEU:HB2	2:B:376:PRO:CD	2.40	0.52
3:S:105:PHE:CZ	3:S:128:LEU:HD11	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:214:LEU:O	4:M:214:LEU:CD2	2.49	0.52
4:M:275:CYS:HG	4:M:293:PRO:HB3	1.68	0.52
4:M:353:VAL:CG2	4:M:438:SER:O	2.56	0.52
4:M:379:LEU:HD13	4:M:397:TRP:NE1	2.23	0.52
1:A:384:LEU:HB2	1:A:441:TYR:HE2	1.75	0.52
2:B:127:LEU:HD22	2:B:157:THR:CG2	2.40	0.52
2:B:176:ALA:O	2:B:178:ILE:N	2.43	0.52
2:B:256:CYS:O	2:B:258:GLN:N	2.42	0.52
3:S:83:LEU:HD13	3:S:121:LEU:HD22	1.90	0.52
4:M:20:LEU:O	4:M:21:GLY:O	2.28	0.52
4:M:65:TYR:CE2	4:M:66:PHE:O	2.62	0.52
4:M:74:TYR:CD2	4:M:109:LEU:HB2	2.45	0.52
4:M:213:GLU:HB3	4:M:467:TYR:HB2	1.92	0.52
4:M:221:THR:HG22	4:M:223:HIS:CE1	2.45	0.52
4:M:272:LEU:HD22	4:M:278:ILE:HB	1.90	0.52
1:A:104:ARG:HG3	1:A:145:ILE:CD1	2.40	0.51
1:A:140:VAL:HA	1:A:177:ILE:HG12	1.92	0.51
1:A:516:ILE:HG22	1:A:554:ALA:CB	2.39	0.51
1:A:533:ILE:HG12	1:A:562:TRP:HH2	1.71	0.51
1:A:544:SER:OG	1:A:547:VAL:HG23	2.10	0.51
1:A:585:PHE:CD2	1:A:603:VAL:CG1	2.92	0.51
2:B:63:MET:HB3	2:B:100:LEU:HD13	1.92	0.51
2:B:63:MET:HG3	2:B:100:LEU:HB3	1.92	0.51
2:B:107:ARG:NH2	4:M:18:TYR:CZ	2.79	0.51
2:B:215:TYR:CD1	2:B:219:TYR:CE2	2.81	0.51
2:B:215:TYR:O	2:B:219:TYR:HD2	1.93	0.51
2:B:279:LEU:HB3	2:B:280:PRO:HD2	1.91	0.51
2:B:416:LYS:HG3	2:B:457:HIS:NE2	2.25	0.51
2:B:493:LEU:CD2	2:B:514:LEU:HD23	2.39	0.51
2:B:512:VAL:C	2:B:551:LEU:CD1	2.67	0.51
2:B:585:GLY:O	2:B:589:SER:N	2.40	0.51
2:B:596:LEU:CD1	2:B:611:ALA:C	2.83	0.51
3:S:53:THR:HG22	3:S:54:PRO:O	2.10	0.51
3:S:127:THR:HG21	3:S:153:VAL:CG1	2.39	0.51
4:M:20:LEU:HD22	4:M:129:VAL:HB	1.90	0.51
4:M:250:LEU:CD1	4:M:254:PRO:CG	2.88	0.51
4:M:340:LEU:HG	4:M:342:LEU:HD11	1.91	0.51
4:M:379:LEU:HB3	4:M:411:LEU:HD11	1.91	0.51
1:A:162:ILE:O	1:A:165:ASP:N	2.44	0.51
1:A:274:LEU:O	1:A:275:LEU:O	2.28	0.51
1:A:438:ALA:O	1:A:439:ASP:CB	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:178:ILE:HG23	2:B:218:CYS:H	1.76	0.51
2:B:227:HIS:CE1	2:B:292:GLU:HG2	2.46	0.51
2:B:253:ILE:HG12	2:B:324:ALA:HB1	1.92	0.51
2:B:327:GLN:O	2:B:328:LEU:C	2.51	0.51
2:B:335:LYS:C	2:B:373:LEU:HD22	2.35	0.51
2:B:563:PHE:CE1	2:B:584:SER:CA	2.93	0.51
3:S:8:PHE:N	3:S:8:PHE:HD1	2.04	0.51
3:S:87:PHE:HB2	3:S:102:ILE:HD11	1.91	0.51
4:M:218:LEU:HG	4:M:244:VAL:CG2	2.38	0.51
1:A:496:ILE:HD11	1:A:519:LEU:CD1	2.40	0.51
2:B:38:TYR:HD1	2:B:38:TYR:N	2.09	0.51
2:B:181:TYR:CD1	2:B:222:HIS:CD2	2.89	0.51
2:B:343:LEU:HD22	2:B:366:LEU:HD11	1.90	0.51
2:B:565:GLN:CB	2:B:581:TYR:CZ	2.93	0.51
4:M:424:PHE:HZ	4:M:428:VAL:CG2	2.23	0.51
1:A:249:ASN:HB3	1:A:252:ILE:HD12	1.91	0.51
1:A:253:ILE:HG23	1:A:281:LEU:HD13	1.92	0.51
2:B:234:CYS:CB	2:B:301:LEU:HB3	2.40	0.51
2:B:307:ASN:OD1	2:B:339:PHE:HD1	1.92	0.51
2:B:348:THR:HG23	2:B:380:LYS:HB3	1.86	0.51
2:B:437:SER:CB	2:B:474:VAL:HA	2.40	0.51
2:B:483:PRO:HA	2:B:486:HIS:CB	2.40	0.51
4:M:65:TYR:OH	4:M:86:PRO:HB3	2.08	0.51
4:M:95:THR:O	4:M:99:ILE:HG13	2.09	0.51
4:M:235:LEU:HD22	4:M:307:SER:HA	1.92	0.51
4:M:240:ILE:HG21	4:M:444:ALA:C	2.36	0.51
1:A:88:ASN:CB	1:A:120:ILE:CG2	2.89	0.51
1:A:509:PRO:HA	1:A:512:LEU:HD12	1.92	0.51
1:A:509:PRO:HB3	1:A:547:VAL:HG21	1.92	0.51
2:B:279:LEU:CD1	2:B:285:GLU:HG2	2.40	0.51
2:B:396:ILE:HG21	2:B:431:MET:C	2.36	0.51
2:B:556:LEU:HA	2:B:588:ILE:HD12	1.84	0.51
2:B:563:PHE:O	2:B:566:ALA:CA	2.58	0.51
4:M:80:THR:HG21	4:M:89:CYS:HB2	1.93	0.51
4:M:222:PHE:CE2	4:M:240:ILE:HD13	2.45	0.51
4:M:327:PHE:CE1	4:M:336:ASP:CB	2.89	0.51
4:M:357:LYS:O	4:M:436:GLU:HG2	2.10	0.51
4:M:447:ILE:O	4:M:448:TYR:C	2.48	0.51
1:A:91:ILE:O	1:A:94:VAL:HB	2.10	0.51
1:A:129:LYS:HG2	1:A:165:ASP:OD2	2.10	0.51
1:A:288:THR:O	1:A:291:ILE:HB	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:373:GLU:CG	1:A:427:LYS:CE	2.89	0.51
1:A:605:GLU:CD	1:A:636:TYR:OH	2.52	0.51
2:B:12:LEU:CB	4:M:13:LYS:HG2	2.21	0.51
2:B:13:ASP:OD1	4:M:14:LEU:CB	2.59	0.51
2:B:170:ARG:CA	2:B:199:LEU:HD22	2.40	0.51
2:B:204:ASP:HB3	2:B:207:VAL:HG23	1.91	0.51
2:B:306:LEU:HD22	2:B:321:CYS:HA	1.91	0.51
2:B:486:HIS:NE2	2:B:518:ILE:HB	2.25	0.51
2:B:563:PHE:CE1	2:B:584:SER:HA	2.45	0.51
2:B:599:ALA:HB1	2:B:607:ILE:HG22	1.91	0.51
4:M:15:ILE:CG2	4:M:115:VAL:CG2	2.79	0.51
1:A:421:PRO:CB	3:S:63:ASN:N	2.70	0.51
1:A:504:ILE:O	1:A:505:ASN:O	2.28	0.51
1:A:514:GLU:HA	1:A:514:GLU:OE1	2.11	0.51
2:B:28:SER:CB	2:B:61:ASP:OD2	2.59	0.51
2:B:68:SER:O	4:M:18:TYR:CD1	2.63	0.51
2:B:217:GLU:CD	4:M:133:GLU:OE1	2.54	0.51
2:B:340:ILE:HD13	2:B:366:LEU:HD13	1.91	0.51
2:B:344:VAL:HG21	2:B:377:TYR:HB2	1.87	0.51
2:B:424:PHE:HD1	2:B:428:VAL:HG11	1.74	0.51
4:M:18:TYR:CD1	4:M:19:LEU:N	2.78	0.51
4:M:55:MET:O	4:M:56:VAL:O	2.28	0.51
4:M:290:PHE:CZ	4:M:297:PHE:CE2	2.99	0.51
1:A:217:ALA:CB	3:S:140:MET:SD	2.98	0.51
1:A:503:ASN:CG	4:M:60:LEU:CG	2.83	0.51
2:B:227:HIS:C	2:B:229:HIS:H	2.19	0.51
2:B:307:ASN:OD1	2:B:339:PHE:CD1	2.64	0.51
2:B:348:THR:O	2:B:349:MET:C	2.50	0.51
1:A:275:LEU:HA	1:A:278:ILE:CG1	2.41	0.51
1:A:316:LEU:HD11	1:A:341:ILE:HG21	1.92	0.51
1:A:398:GLU:CA	1:A:418:ILE:HG13	2.41	0.51
1:A:503:ASN:OD1	4:M:60:LEU:CG	2.58	0.51
2:B:38:TYR:CD1	2:B:42:ILE:CD1	2.91	0.51
4:M:241:HIS:C	4:M:474:THR:HB	2.36	0.51
1:A:158:LEU:CG	1:A:162:ILE:HD11	2.41	0.51
1:A:170:LEU:HD13	1:A:181:ALA:HB3	1.93	0.51
2:B:215:TYR:O	2:B:219:TYR:CD2	2.64	0.51
2:B:237:ILE:HD12	2:B:248:LEU:HB2	1.92	0.51
2:B:246:SER:O	2:B:249:ILE:HB	2.10	0.51
4:M:8:THR:HG22	4:M:14:LEU:HA	1.93	0.51
4:M:70:ASN:ND2	4:M:75:TRP:CZ2	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:212:ASN:HB3	4:M:250:LEU:HD23	1.93	0.51
4:M:276:VAL:HG21	4:M:299:LEU:HD12	1.92	0.51
4:M:280:ASP:OD2	4:M:282:VAL:HG23	2.10	0.51
2:B:197:LYS:CA	2:B:229:HIS:NE2	2.74	0.50
2:B:400:SER:HB2	2:B:435:SER:O	2.11	0.50
2:B:426:GLU:O	2:B:430:ILE:HG13	2.11	0.50
2:B:468:LEU:HD13	2:B:503:LEU:HD22	1.93	0.50
4:M:276:VAL:HG22	4:M:299:LEU:HD12	1.94	0.50
1:A:180:LYS:NZ	3:S:137:GLN:CB	2.75	0.50
1:A:197:ARG:O	1:A:198:ASP:C	2.49	0.50
1:A:251:TRP:HA	1:A:254:ILE:HD12	1.93	0.50
1:A:253:ILE:CD1	1:A:285:THR:HG21	2.41	0.50
1:A:258:LYS:HZ2	3:S:93:GLU:HA	1.63	0.50
1:A:275:LEU:C	1:A:275:LEU:HD23	2.36	0.50
2:B:44:PRO:HG3	2:B:77:ILE:CD1	2.42	0.50
2:B:64:LYS:HZ2	4:M:120:ARG:NH1	1.99	0.50
2:B:120:ILE:HG13	2:B:150:LEU:CD1	2.41	0.50
2:B:146:LYS:O	2:B:147:MET:SD	2.69	0.50
2:B:155:LEU:CB	2:B:188:TYR:CD1	2.93	0.50
2:B:334:MET:O	2:B:373:LEU:HD23	2.11	0.50
3:S:47:GLN:O	3:S:49:SER:N	2.44	0.50
4:M:323:MET:SD	4:M:342:LEU:CB	2.99	0.50
4:M:386:PHE:CB	4:M:397:TRP:CD1	2.94	0.50
1:A:64:LEU:CB	1:A:102:GLN:NE2	2.74	0.50
1:A:237:SER:N	1:A:238:PRO:CD	2.74	0.50
1:A:253:ILE:HD12	1:A:285:THR:HG21	1.93	0.50
1:A:288:THR:CG2	3:S:96:LEU:CD2	2.84	0.50
1:A:462:GLN:HG3	4:M:59:ASP:CG	1.94	0.50
1:A:535:ILE:O	1:A:536:MET:HG3	2.11	0.50
2:B:5:ILE:CD1	4:M:39:PRO:CA	2.88	0.50
2:B:17:VAL:CG2	2:B:36:THR:HA	2.41	0.50
2:B:64:LYS:HD3	4:M:119:ASP:HB3	1.92	0.50
2:B:106:LEU:CD1	2:B:144:ASP:CA	2.78	0.50
2:B:108:PHE:HE1	2:B:112:ASP:CB	2.24	0.50
2:B:120:ILE:HD12	2:B:150:LEU:HD13	1.92	0.50
2:B:120:ILE:HD13	2:B:142:LEU:HD23	1.93	0.50
2:B:278:PRO:HD2	2:B:292:GLU:CD	2.33	0.50
2:B:399:LEU:O	2:B:400:SER:C	2.53	0.50
2:B:437:SER:HB2	2:B:474:VAL:CA	2.40	0.50
3:S:14:PRO:HA	3:S:36:TYR:OH	2.11	0.50
3:S:80:TYR:HH	3:S:110:ASP:CG	2.18	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:125:TRP:CD1	3:S:129:GLU:HG3	2.46	0.50
1:A:254:ILE:CG2	3:S:94:SER:CB	2.90	0.50
1:A:429:VAL:HG11	1:A:473:ILE:HD11	1.92	0.50
1:A:582:ILE:CG1	1:A:607:LEU:HB2	2.41	0.50
1:A:589:SER:HA	1:A:597:GLN:CG	2.38	0.50
2:B:155:LEU:HB2	2:B:188:TYR:CE1	2.47	0.50
2:B:243:TRP:HH2	4:M:98:ARG:HD3	0.92	0.50
2:B:262:LYS:O	2:B:290:SER:HB2	2.12	0.50
2:B:279:LEU:O	2:B:280:PRO:C	2.52	0.50
2:B:537:PHE:CE2	2:B:545:ARG:CG	2.95	0.50
2:B:563:PHE:O	2:B:567:GLN:N	2.45	0.50
2:B:566:ALA:C	2:B:574:ASN:CB	2.84	0.50
2:B:577:ASN:C	2:B:578:PRO:O	2.53	0.50
4:M:9:ASP:C	4:M:9:ASP:OD1	2.54	0.50
4:M:20:LEU:O	4:M:21:GLY:C	2.44	0.50
4:M:125:PHE:O	4:M:128:CYS:HB2	2.11	0.50
4:M:235:LEU:HD23	4:M:235:LEU:O	2.12	0.50
4:M:304:VAL:HB	4:M:445:SER:CB	2.42	0.50
1:A:117:ASP:OD2	1:A:120:ILE:CG1	2.59	0.50
1:A:251:TRP:HE3	3:S:97:ALA:CA	1.91	0.50
1:A:268:PRO:HG3	1:A:271:ARG:HH21	1.76	0.50
1:A:581:LEU:HG	1:A:585:PHE:CZ	2.47	0.50
2:B:316:THR:C	2:B:318:ILE:N	2.66	0.50
2:B:352:ASN:O	2:B:355:ASN:HB2	2.12	0.50
2:B:564:LYS:HG2	2:B:565:GLN:N	2.27	0.50
3:S:8:PHE:HZ	3:S:86:THR:HG1	1.46	0.50
3:S:57:LEU:HA	3:S:58:LEU:O	2.11	0.50
3:S:83:LEU:HD11	3:S:116:VAL:CG2	2.41	0.50
4:M:136:VAL:CG1	4:M:137:SER:N	2.74	0.50
4:M:243:ILE:CG2	4:M:472:TYR:HB3	2.41	0.50
4:M:323:MET:HE2	4:M:437:TYR:HE2	1.76	0.50
4:M:371:GLU:O	4:M:419:ASN:OD1	2.29	0.50
4:M:405:THR:CG2	4:M:406:GLY:N	2.68	0.50
1:A:128:LEU:HB2	1:A:150:LEU:HD21	1.93	0.50
2:B:9:ALA:HB3	4:M:14:LEU:HD12	1.94	0.50
2:B:68:SER:O	2:B:71:ALA:HB3	2.12	0.50
2:B:178:ILE:HG13	2:B:214:ALA:HA	1.82	0.50
2:B:382:TYR:OH	2:B:410:GLU:HB2	2.12	0.50
2:B:400:SER:HB2	2:B:435:SER:CA	2.32	0.50
3:S:8:PHE:HE1	3:S:86:THR:N	2.09	0.50
4:M:242:GLY:N	4:M:444:ALA:CB	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:253:ASN:O	4:M:254:PRO:C	2.53	0.50
1:A:182:ILE:CG2	1:A:221:VAL:CG2	2.81	0.50
1:A:341:ILE:O	1:A:344:ILE:HB	2.11	0.50
1:A:426:ILE:CD1	1:A:466:ASP:OD2	2.58	0.50
1:A:429:VAL:HG11	1:A:473:ILE:CD1	2.41	0.50
1:A:488:ARG:CG	1:A:522:PHE:CE2	2.94	0.50
1:A:604:LEU:HD23	1:A:604:LEU:C	2.37	0.50
1:A:638:LEU:HD12	2:B:557:SER:OG	2.11	0.50
2:B:20:ARG:NH2	4:M:118:TYR:HB3	2.23	0.50
2:B:151:ALA:HB3	2:B:188:TYR:HE2	1.73	0.50
2:B:162:VAL:HG22	2:B:199:LEU:HD21	1.93	0.50
2:B:181:TYR:CG	2:B:218:CYS:SG	2.99	0.50
2:B:185:LYS:HE2	2:B:221:ASP:OD2	2.12	0.50
2:B:513:TRP:CA	2:B:551:LEU:CD2	2.83	0.50
4:M:212:ASN:CG	4:M:250:LEU:HA	2.37	0.50
1:A:92:LEU:HD13	1:A:123:LEU:CB	2.42	0.50
1:A:223:CYS:HB2	1:A:259:LEU:CD1	2.41	0.50
1:A:613:ALA:HB3	1:A:621:LEU:HD23	1.93	0.50
2:B:170:ARG:O	2:B:171:GLY:C	2.54	0.50
2:B:230:PHE:HB3	2:B:298:ASP:OD2	2.12	0.50
2:B:232:ARG:CG	2:B:236:ILE:HD11	2.33	0.50
2:B:560:ILE:C	2:B:563:PHE:H	2.19	0.50
2:B:596:LEU:O	2:B:599:ALA:N	2.32	0.50
3:S:3:HIS:O	3:S:19:PHE:HA	2.12	0.50
4:M:220:GLU:CG	4:M:439:TYR:CB	2.85	0.50
4:M:306:LEU:CG	4:M:317:MET:CE	2.90	0.50
4:M:343:ASN:HB3	4:M:345:GLU:HG3	1.94	0.50
1:A:341:ILE:O	1:A:345:ASN:N	2.45	0.50
1:A:379:VAL:CG1	1:A:441:TYR:HH	2.24	0.50
1:A:433:ILE:HD13	1:A:472:LYS:O	2.12	0.50
1:A:516:ILE:HD13	1:A:551:LEU:CA	2.42	0.50
1:A:556:VAL:HG22	1:A:603:VAL:HG13	1.90	0.50
2:B:38:TYR:O	2:B:40:GLN:N	2.45	0.50
2:B:116:THR:O	2:B:119:SER:OG	2.21	0.50
2:B:143:SER:HB2	2:B:179:LYS:CD	2.42	0.50
2:B:189:HIS:CE1	2:B:222:HIS:CG	2.99	0.50
2:B:241:ASP:OD1	2:B:243:TRP:HB2	2.12	0.50
2:B:476:ARG:O	2:B:480:GLN:HG3	2.11	0.50
2:B:479:VAL:CG2	2:B:486:HIS:HD2	2.09	0.50
2:B:565:GLN:HB2	2:B:581:TYR:CZ	2.46	0.50
4:M:68:VAL:HG23	4:M:77:LEU:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:364:VAL:CA	4:M:367:ALA:O	2.60	0.50
1:A:158:LEU:CD1	1:A:162:ILE:HG13	2.42	0.49
1:A:254:ILE:HG12	1:A:290:VAL:HA	1.93	0.49
1:A:508:LEU:CD1	4:M:59:ASP:OD1	2.60	0.49
2:B:131:ASN:O	2:B:135:ARG:HG3	2.12	0.49
2:B:162:VAL:HG22	2:B:199:LEU:CD2	2.42	0.49
2:B:189:HIS:NE2	2:B:222:HIS:CG	2.80	0.49
2:B:333:GLN:O	2:B:336:ASN:CB	2.60	0.49
4:M:223:HIS:CA	4:M:479:PHE:CG	2.92	0.49
4:M:306:LEU:HD21	4:M:317:MET:HE1	1.88	0.49
4:M:379:LEU:HB3	4:M:411:LEU:CD1	2.42	0.49
1:A:119:ASP:O	1:A:123:LEU:HG	2.11	0.49
1:A:333:ILE:HD11	3:S:95:GLU:CD	2.29	0.49
1:A:422:GLU:OE1	3:S:62:GLU:CD	2.55	0.49
2:B:17:VAL:CG1	2:B:35:TYR:CD2	2.95	0.49
2:B:97:VAL:CG1	2:B:101:ILE:HD11	2.42	0.49
2:B:260:LEU:CD2	2:B:291:TYR:OH	2.54	0.49
2:B:279:LEU:N	2:B:288:TYR:CB	2.49	0.49
2:B:390:VAL:HA	2:B:393:ILE:HD12	1.94	0.49
2:B:589:SER:OG	2:B:618:PHE:CE2	2.65	0.49
3:S:136:VAL:O	3:S:139:GLY:C	2.56	0.49
4:M:51:LEU:N	4:M:51:LEU:HD12	2.28	0.49
4:M:70:ASN:CG	4:M:75:TRP:CZ2	2.90	0.49
4:M:92:PHE:CE2	4:M:128:CYS:HB3	2.47	0.49
4:M:223:HIS:CB	4:M:476:THR:OG1	2.60	0.49
4:M:293:PRO:CA	4:M:294:ASP:O	2.60	0.49
1:A:206:LYS:C	1:A:208:ASP:H	2.20	0.49
1:A:460:LEU:O	1:A:463:ASP:N	2.37	0.49
1:A:496:ILE:HG13	1:A:532:LEU:HD11	1.93	0.49
2:B:37:TYR:CD2	2:B:38:TYR:CE1	3.00	0.49
2:B:83:PHE:CD1	2:B:87:VAL:HG23	2.47	0.49
2:B:162:VAL:HG11	2:B:195:ILE:HG23	1.92	0.49
2:B:195:ILE:O	2:B:197:LYS:N	2.44	0.49
2:B:215:TYR:CZ	2:B:229:HIS:HB3	2.47	0.49
2:B:223:LEU:HD22	2:B:255:TYR:CD1	2.48	0.49
2:B:335:LYS:O	2:B:373:LEU:HD22	2.12	0.49
2:B:365:PHE:O	2:B:368:ILE:HB	2.12	0.49
2:B:497:LEU:CD1	2:B:503:LEU:HD12	2.41	0.49
2:B:563:PHE:CD2	2:B:588:ILE:HD12	2.47	0.49
3:S:135:ILE:O	3:S:141:VAL:CG2	2.59	0.49
4:M:212:ASN:CA	4:M:249:TYR:O	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:214:LEU:N	4:M:467:TYR:H	2.11	0.49
4:M:290:PHE:CD2	4:M:297:PHE:CZ	2.99	0.49
4:M:291:ILE:HG12	4:M:292:PRO:CD	2.42	0.49
2:B:6:HIS:NE2	4:M:77:LEU:HD21	2.27	0.49
2:B:14:THR:HA	2:B:36:THR:CA	2.26	0.49
2:B:25:VAL:HA	2:B:30:LEU:O	2.12	0.49
2:B:79:VAL:HG23	2:B:108:PHE:CD2	2.43	0.49
2:B:199:LEU:O	2:B:200:MET:C	2.50	0.49
2:B:271:GLU:C	2:B:273:SER:N	2.54	0.49
2:B:310:ILE:CG2	2:B:342:ALA:C	2.85	0.49
2:B:567:GLN:O	2:B:569:THR:HB	2.00	0.49
3:S:25:LEU:O	3:S:27:LYS:N	2.45	0.49
3:S:146:VAL:O	3:S:150:VAL:HG23	2.12	0.49
4:M:92:PHE:HE2	4:M:128:CYS:C	2.20	0.49
4:M:270:PRO:O	4:M:272:LEU:HD12	2.11	0.49
4:M:372:ILE:CD1	4:M:428:VAL:HG22	2.42	0.49
1:A:264:SER:HB3	1:A:271:ARG:CG	2.42	0.49
1:A:329:ASN:O	1:A:333:ILE:HG13	2.13	0.49
1:A:429:VAL:HG11	1:A:473:ILE:HG13	1.91	0.49
1:A:516:ILE:HG23	1:A:554:ALA:CB	2.37	0.49
2:B:309:LEU:CG	2:B:317:VAL:HG11	2.42	0.49
2:B:537:PHE:CZ	2:B:545:ARG:CG	2.96	0.49
3:S:25:LEU:HA	3:S:28:GLN:CG	2.41	0.49
4:M:276:VAL:CG2	4:M:290:PHE:HD1	2.15	0.49
4:M:362:PHE:O	4:M:364:VAL:HG13	2.12	0.49
1:A:78:GLU:O	1:A:80:TYR:O	2.30	0.49
1:A:186:PHE:HE1	1:A:187:LYS:HD3	1.78	0.49
1:A:263:LEU:O	1:A:264:SER:C	2.48	0.49
1:A:316:LEU:O	1:A:319:LEU:N	2.44	0.49
2:B:107:ARG:HA	4:M:130:GLU:CD	2.37	0.49
2:B:175:LEU:O	2:B:178:ILE:HB	2.13	0.49
2:B:216:LYS:HB2	2:B:251:LEU:CG	2.37	0.49
2:B:513:TRP:CZ2	2:B:554:LYS:NZ	2.79	0.49
2:B:589:SER:HG	2:B:618:PHE:HZ	1.61	0.49
4:M:219:LEU:N	4:M:472:TYR:CD2	2.79	0.49
1:A:64:LEU:CA	1:A:102:GLN:HE22	2.25	0.49
1:A:170:LEU:HD12	1:A:206:LYS:HG3	1.94	0.49
1:A:179:LYS:NZ	3:S:142:ILE:H	2.08	0.49
1:A:190:LEU:HD12	1:A:228:LYS:HG3	1.94	0.49
1:A:293:GLU:OE1	3:S:94:SER:CB	2.59	0.49
1:A:573:GLU:O	1:A:577:VAL:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:638:LEU:CD1	2:B:557:SER:CB	2.91	0.49
2:B:85:ASP:O	2:B:89:ASN:ND2	2.46	0.49
2:B:120:ILE:HG13	2:B:150:LEU:HD13	1.94	0.49
2:B:231:ARG:HG2	2:B:298:ASP:OD1	2.11	0.49
2:B:294:VAL:HA	2:B:299:LEU:CD1	2.43	0.49
2:B:483:PRO:O	2:B:486:HIS:HB3	2.13	0.49
3:S:131:VAL:CG2	3:S:153:VAL:CG2	2.84	0.49
4:M:323:MET:HG2	4:M:437:TYR:OH	2.13	0.49
4:M:446:GLY:C	4:M:448:TYR:H	2.19	0.49
1:A:136:GLY:O	1:A:139:ASP:HA	2.12	0.49
1:A:569:ASP:C	1:A:571:ARG:N	2.67	0.49
2:B:162:VAL:CG1	2:B:195:ILE:HG23	2.42	0.49
2:B:189:HIS:CE1	2:B:222:HIS:ND1	2.81	0.49
2:B:219:TYR:CG	2:B:226:LEU:CD2	2.83	0.49
2:B:327:GLN:C	2:B:329:ALA:N	2.70	0.49
2:B:412:PHE:HB3	2:B:453:TRP:CD1	2.48	0.49
2:B:430:ILE:HG13	2:B:467:VAL:HG22	1.94	0.49
3:S:39:ILE:HG23	3:S:47:GLN:CD	2.38	0.49
4:M:340:LEU:HG	4:M:342:LEU:CD1	2.43	0.49
4:M:480:GLN:OE1	4:M:482:ARG:NE	2.38	0.49
2:B:10:SER:O	2:B:40:GLN:NE2	2.45	0.49
2:B:278:PRO:CD	2:B:292:GLU:CA	2.90	0.49
2:B:430:ILE:HG23	2:B:470:ALA:HB2	1.94	0.49
2:B:486:HIS:NE2	2:B:490:ILE:HD11	2.27	0.49
2:B:494:ALA:O	2:B:498:THR:HG23	2.12	0.49
3:S:129:GLU:O	3:S:132:LEU:N	2.45	0.49
4:M:6:TYR:O	4:M:76:CYS:HA	2.13	0.49
4:M:67:SER:O	4:M:93:LEU:HD11	2.13	0.49
4:M:379:LEU:HD22	4:M:397:TRP:CE2	2.48	0.49
1:A:264:SER:HB2	1:A:271:ARG:CG	2.43	0.49
1:A:292:TYR:O	1:A:292:TYR:HD1	1.93	0.49
1:A:486:SER:O	1:A:487:MET:HB2	2.12	0.49
1:A:610:SER:OG	1:A:625:LEU:HD13	2.13	0.49
2:B:28:SER:OG	2:B:30:LEU:O	0.49	0.49
2:B:140:SER:O	2:B:143:SER:N	2.45	0.49
4:M:217:ASP:C	4:M:472:TYR:CE2	2.91	0.49
4:M:338:PHE:HZ	4:M:379:LEU:HD21	1.78	0.49
4:M:437:TYR:CE1	4:M:479:PHE:CD2	3.01	0.49
1:A:261:THR:O	1:A:264:SER:N	2.45	0.48
1:A:617:ASP:CG	1:A:618:THR:H	2.19	0.48
1:A:638:LEU:HD13	2:B:557:SER:CB	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:35:TYR:C	2:B:37:TYR:H	2.21	0.48
2:B:86:VAL:HG13	2:B:101:ILE:HG12	1.93	0.48
2:B:275:ARG:HG2	2:B:294:VAL:HG11	1.95	0.48
2:B:295:ASN:O	2:B:296:ASP:O	2.30	0.48
3:S:24:ASP:HB3	3:S:26:PRO:HD2	1.93	0.48
4:M:278:ILE:O	4:M:278:ILE:HG12	2.12	0.48
1:A:185:LEU:HB2	1:A:203:PHE:CZ	2.47	0.48
1:A:190:LEU:CD1	1:A:228:LYS:HE3	2.37	0.48
1:A:581:LEU:CD2	1:A:585:PHE:CE2	2.96	0.48
3:S:53:THR:CG2	3:S:69:ASN:N	2.77	0.48
3:S:109:LEU:O	3:S:111:ARG:N	2.44	0.48
4:M:252:ASP:C	4:M:254:PRO:CD	2.85	0.48
4:M:280:ASP:OD1	4:M:280:ASP:N	2.44	0.48
4:M:306:LEU:HD21	4:M:317:MET:HE2	1.88	0.48
4:M:336:ASP:CG	4:M:415:ILE:HB	2.38	0.48
1:A:76:TYR:O	1:A:80:TYR:CD2	2.67	0.48
1:A:213:SER:HB2	3:S:142:ILE:CG2	2.44	0.48
1:A:498:LEU:HB3	1:A:504:ILE:HG13	1.95	0.48
2:B:212:VAL:HG13	2:B:251:LEU:HD23	1.95	0.48
2:B:300:ASP:C	2:B:302:PHE:N	2.69	0.48
3:S:25:LEU:HA	3:S:28:GLN:HG2	1.95	0.48
3:S:33:GLU:O	3:S:36:TYR:HB2	2.12	0.48
1:A:71:VAL:CG1	1:A:105:VAL:CG1	2.89	0.48
1:A:186:PHE:CE1	1:A:187:LYS:HD3	2.48	0.48
1:A:435:ILE:O	1:A:436:CYS:C	2.56	0.48
2:B:75:ASP:CG	4:M:24:ALA:CB	2.58	0.48
2:B:249:ILE:CG2	2:B:324:ALA:HB2	2.43	0.48
2:B:297:PRO:O	2:B:301:LEU:CB	2.61	0.48
2:B:325:LEU:O	2:B:334:MET:SD	2.71	0.48
2:B:425:PRO:HD2	2:B:428:VAL:HG21	1.95	0.48
2:B:556:LEU:O	2:B:588:ILE:CD1	2.61	0.48
2:B:586:SER:O	2:B:590:GLN:HG3	2.13	0.48
4:M:4:SER:HA	4:M:18:TYR:O	2.14	0.48
4:M:6:TYR:HD2	4:M:17:GLN:HG3	1.76	0.48
4:M:54:SER:N	4:M:66:PHE:CD2	2.68	0.48
4:M:306:LEU:HD22	4:M:317:MET:HE2	1.85	0.48
1:A:125:THR:C	1:A:127:LEU:N	2.70	0.48
1:A:140:VAL:O	1:A:141:VAL:O	2.30	0.48
2:B:20:ARG:NH1	4:M:118:TYR:N	2.61	0.48
2:B:92:THR:HG22	2:B:94:ASP:H	1.78	0.48
2:B:227:HIS:CG	2:B:298:ASP:OD2	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:307:ASN:OD1	2:B:339:PHE:HA	2.13	0.48
2:B:396:ILE:C	2:B:435:SER:OG	2.56	0.48
2:B:563:PHE:C	2:B:564:LYS:O	2.57	0.48
3:S:4:ALA:HB2	3:S:19:PHE:CD1	2.36	0.48
3:S:5:VAL:HG13	3:S:87:PHE:CE2	2.48	0.48
4:M:350:VAL:HA	4:M:442:GLN:CG	2.43	0.48
4:M:467:TYR:CG	4:M:468:LYS:N	2.82	0.48
1:A:207:LEU:HD23	1:A:239:LEU:HB3	1.95	0.48
1:A:460:LEU:C	1:A:462:GLN:N	2.71	0.48
1:A:536:MET:CB	1:A:555:LEU:HD21	2.44	0.48
1:A:581:LEU:HD23	1:A:607:LEU:CG	2.43	0.48
2:B:38:TYR:O	2:B:39:SER:C	2.55	0.48
2:B:120:ILE:HD11	2:B:145:MET:HG3	1.96	0.48
2:B:426:GLU:O	2:B:467:VAL:HG22	2.14	0.48
2:B:559:ASP:O	2:B:562:ASN:N	2.46	0.48
2:B:559:ASP:CA	2:B:562:ASN:HB2	2.40	0.48
3:S:54:PRO:O	3:S:69:ASN:CB	2.62	0.48
4:M:101:LEU:HG	4:M:106:LYS:HG3	1.94	0.48
4:M:222:PHE:CD1	4:M:222:PHE:N	2.79	0.48
4:M:336:ASP:OD2	4:M:415:ILE:HB	2.14	0.48
1:A:182:ILE:HG23	1:A:203:PHE:CE2	2.49	0.48
1:A:222:ILE:HD12	1:A:240:LEU:HD21	1.96	0.48
1:A:339:TYR:HB2	1:A:374:LEU:HD11	1.95	0.48
2:B:75:ASP:C	2:B:77:ILE:H	2.20	0.48
2:B:155:LEU:CG	2:B:188:TYR:HD1	2.26	0.48
4:M:8:THR:N	4:M:75:TRP:O	2.43	0.48
4:M:311:LYS:O	4:M:312:GLN:C	2.51	0.48
4:M:331:LEU:HD12	4:M:331:LEU:C	2.38	0.48
4:M:379:LEU:HD22	4:M:411:LEU:HD21	1.96	0.48
1:A:99:LYS:O	1:A:103:LYS:HG3	2.14	0.48
1:A:264:SER:CB	1:A:271:ARG:HG3	2.43	0.48
1:A:349:ILE:O	1:A:350:SER:C	2.55	0.48
1:A:454:ILE:HG23	1:A:473:ILE:HG23	1.96	0.48
2:B:83:PHE:HE2	2:B:105:LEU:HA	1.79	0.48
2:B:178:ILE:HG21	2:B:217:GLU:CB	2.32	0.48
2:B:261:PRO:CB	2:B:290:SER:HB3	2.32	0.48
2:B:399:LEU:O	2:B:403:ILE:HG23	2.14	0.48
2:B:400:SER:HB2	2:B:435:SER:C	2.39	0.48
2:B:497:LEU:CD2	2:B:511:ILE:HG21	2.44	0.48
3:S:58:LEU:HD12	3:S:58:LEU:HA	1.83	0.48
4:M:310:VAL:HG13	4:M:315:VAL:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:376:ILE:HD12	4:M:415:ILE:HG12	1.95	0.48
1:A:121:LEU:HG	1:A:153:ILE:HG21	1.96	0.48
1:A:263:LEU:O	1:A:265:GLN:C	2.56	0.48
1:A:436:CYS:CB	1:A:450:TYR:CE1	2.97	0.48
1:A:484:VAL:HG12	1:A:486:SER:O	2.13	0.48
1:A:594:PHE:HZ	2:B:477:MET:HE1	1.77	0.48
2:B:325:LEU:HD22	2:B:339:PHE:CE1	2.49	0.48
2:B:389:ILE:HG23	2:B:428:VAL:CG2	2.43	0.48
3:S:1:MET:H2	3:S:93:GLU:CG	2.27	0.48
3:S:73:ILE:HG23	3:S:88:ILE:HG22	1.93	0.48
4:M:16:PHE:CD1	4:M:118:TYR:CE2	3.01	0.48
4:M:19:LEU:HD12	4:M:20:LEU:N	2.29	0.48
4:M:275:CYS:HB2	4:M:290:PHE:HE1	1.78	0.48
4:M:290:PHE:CZ	4:M:297:PHE:CD1	3.01	0.48
1:A:341:ILE:CG2	1:A:348:PHE:HD2	2.26	0.48
1:A:635:ALA:C	1:A:638:LEU:H	2.22	0.48
2:B:83:PHE:CE2	2:B:108:PHE:HB3	2.48	0.48
2:B:253:ILE:CD1	2:B:324:ALA:CA	2.91	0.48
2:B:522:GLU:O	2:B:524:LYS:N	2.47	0.48
4:M:45:SER:CA	4:M:75:TRP:CH2	2.97	0.48
4:M:45:SER:CB	4:M:75:TRP:CH2	2.94	0.48
4:M:354:ASP:O	4:M:438:SER:HB2	2.14	0.48
4:M:376:ILE:HD13	4:M:415:ILE:HG23	1.95	0.48
1:A:162:ILE:O	1:A:165:ASP:HB2	2.14	0.47
1:A:449:TRP:O	1:A:453:VAL:HG23	2.14	0.47
1:A:609:LEU:HD23	1:A:628:VAL:HG11	1.96	0.47
2:B:75:ASP:CG	4:M:24:ALA:H	2.22	0.47
2:B:83:PHE:CE1	2:B:87:VAL:HG23	2.47	0.47
2:B:291:TYR:HE2	2:B:294:VAL:HB	1.79	0.47
2:B:355:ASN:O	2:B:359:LEU:CD2	2.62	0.47
2:B:374:PHE:CE2	2:B:398:ILE:HG22	2.47	0.47
2:B:400:SER:CB	2:B:435:SER:C	2.87	0.47
2:B:437:SER:C	2:B:439:CYS:N	2.69	0.47
2:B:437:SER:HG	2:B:477:MET:HB2	1.78	0.47
3:S:51:LEU:HD12	3:S:77:TYR:CZ	2.49	0.47
4:M:217:ASP:OD1	4:M:471:LYS:HA	2.14	0.47
1:A:88:ASN:CG	1:A:120:ILE:CG2	2.84	0.47
1:A:114:PHE:CG	1:A:153:ILE:HG23	2.42	0.47
1:A:250:ASN:O	1:A:254:ILE:HG13	2.14	0.47
2:B:25:VAL:CG2	2:B:31:GLY:CA	2.92	0.47
2:B:367:SER:OG	2:B:401:THR:CG2	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:405:GLU:O	2:B:446:TRP:CD1	2.67	0.47
4:M:51:LEU:CD2	4:M:68:VAL:HG21	2.44	0.47
4:M:218:LEU:N	4:M:472:TYR:CE2	2.82	0.47
4:M:233:LEU:HD22	4:M:324:SER:HA	1.95	0.47
4:M:245:ASP:N	4:M:472:TYR:CE2	2.82	0.47
4:M:386:PHE:CB	4:M:397:TRP:HD1	2.27	0.47
1:A:84:MET:HB3	1:A:113:SER:HB2	1.95	0.47
1:A:395:PHE:CZ	1:A:428:MET:CG	2.96	0.47
1:A:481:MET:HE3	1:A:491:THR:OG1	2.14	0.47
1:A:504:ILE:N	4:M:59:ASP:OD2	2.47	0.47
1:A:529:GLY:O	1:A:532:LEU:HB2	2.14	0.47
1:A:581:LEU:HD21	1:A:585:PHE:CE2	2.49	0.47
2:B:177:ILE:HD11	2:B:195:ILE:HG21	1.95	0.47
2:B:249:ILE:HG23	2:B:306:LEU:HD21	1.94	0.47
4:M:223:HIS:CA	4:M:479:PHE:CZ	2.94	0.47
4:M:226:PHE:CE1	4:M:235:LEU:HB2	2.49	0.47
4:M:331:LEU:HA	4:M:335:SER:O	2.15	0.47
1:A:136:GLY:O	1:A:139:ASP:N	2.47	0.47
1:A:192:TYR:CE2	1:A:194:GLU:HB2	2.49	0.47
1:A:254:ILE:CG1	1:A:290:VAL:HG22	2.43	0.47
1:A:350:SER:O	1:A:352:PHE:N	2.46	0.47
2:B:38:TYR:C	2:B:40:GLN:H	2.23	0.47
2:B:100:LEU:CD2	4:M:123:LEU:CD1	2.92	0.47
2:B:162:VAL:HB	2:B:195:ILE:HG23	1.93	0.47
2:B:213:LEU:CD2	4:M:136:VAL:CB	2.90	0.47
2:B:215:TYR:HB3	2:B:226:LEU:HD13	1.96	0.47
2:B:241:ASP:C	2:B:243:TRP:H	2.21	0.47
2:B:328:LEU:O	2:B:329:ALA:C	2.54	0.47
2:B:415:LEU:HD13	2:B:436:LEU:HG	1.97	0.47
4:M:41:LEU:HD13	4:M:52:ASP:HB2	1.96	0.47
4:M:347:PHE:O	4:M:350:VAL:N	2.42	0.47
4:M:351:SER:HB2	4:M:441:GLY:CA	2.44	0.47
4:M:360:LEU:HD13	4:M:433:VAL:CB	2.44	0.47
1:A:187:LYS:O	1:A:190:LEU:HB3	2.14	0.47
1:A:316:LEU:O	1:A:319:LEU:HB2	2.14	0.47
1:A:440:ASN:C	1:A:442:SER:H	2.18	0.47
1:A:625:LEU:C	1:A:627:GLU:N	2.70	0.47
2:B:16:LYS:NZ	4:M:111:ILE:CB	2.78	0.47
2:B:35:TYR:CZ	4:M:118:TYR:CE2	3.03	0.47
2:B:47:LEU:HD22	2:B:66:ILE:HG13	1.96	0.47
2:B:167:ALA:C	2:B:207:VAL:HG21	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:169:VAL:C	2:B:173:VAL:HG23	2.39	0.47
2:B:486:HIS:CD2	2:B:490:ILE:HG12	2.48	0.47
2:B:566:ALA:HB2	2:B:581:TYR:HB3	1.96	0.47
4:M:51:LEU:HD12	4:M:51:LEU:H	1.79	0.47
1:A:91:ILE:HG21	1:A:106:GLY:O	2.15	0.47
1:A:135:ASP:O	1:A:136:GLY:O	2.32	0.47
1:A:398:GLU:C	1:A:418:ILE:HG13	2.39	0.47
1:A:422:GLU:OE1	3:S:62:GLU:CB	2.61	0.47
1:A:423:ASN:N	3:S:62:GLU:OE1	2.48	0.47
1:A:570:LYS:O	1:A:571:ARG:CB	2.54	0.47
1:A:572:PHE:O	1:A:575:LYS:HB3	2.13	0.47
1:A:599:ARG:NH2	2:B:550:VAL:HG22	2.29	0.47
2:B:106:LEU:HG	4:M:130:GLU:HB3	1.75	0.47
2:B:256:CYS:C	2:B:258:GLN:N	2.67	0.47
2:B:360:LEU:HD22	2:B:395:LYS:HD3	1.97	0.47
2:B:494:ALA:HB2	2:B:515:PHE:HZ	1.74	0.47
2:B:592:TYR:CG	2:B:593:ASN:N	2.83	0.47
4:M:76:CYS:CB	4:M:93:LEU:HD22	2.44	0.47
4:M:263:MET:HG2	4:M:263:MET:O	2.14	0.47
4:M:332:GLY:O	4:M:426:LYS:HE3	2.15	0.47
4:M:469:GLY:C	4:M:470:ALA:O	2.56	0.47
1:A:68:THR:HB	3:S:166:LYS:HD3	1.95	0.47
1:A:72:LEU:O	1:A:76:TYR:CD2	2.68	0.47
1:A:94:VAL:O	1:A:95:MET:C	2.50	0.47
1:A:213:SER:CB	3:S:142:ILE:C	2.87	0.47
1:A:231:GLN:N	1:A:232:PRO:CD	2.78	0.47
1:A:292:TYR:O	1:A:295:VAL:HB	2.15	0.47
1:A:447:PHE:O	1:A:450:TYR:HB3	2.15	0.47
1:A:460:LEU:C	1:A:462:GLN:H	2.23	0.47
1:A:578:LEU:CD2	1:A:607:LEU:CD2	2.91	0.47
1:A:638:LEU:HA	2:B:557:SER:OG	2.14	0.47
2:B:5:ILE:CD1	4:M:39:PRO:HG3	2.40	0.47
2:B:139:LEU:HD23	2:B:172:GLU:C	2.39	0.47
2:B:185:LYS:O	2:B:186:ASN:C	2.31	0.47
2:B:195:ILE:C	2:B:197:LYS:H	2.21	0.47
2:B:231:ARG:HH21	2:B:279:LEU:HD21	1.64	0.47
2:B:237:ILE:HD12	2:B:248:LEU:CB	2.43	0.47
2:B:253:ILE:CG1	2:B:324:ALA:HB2	2.44	0.47
2:B:266:VAL:HG22	2:B:291:TYR:H	1.79	0.47
2:B:325:LEU:HB3	2:B:334:MET:CE	2.44	0.47
2:B:325:LEU:CB	2:B:334:MET:SD	2.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:389:ILE:HG23	2:B:428:VAL:HG23	1.97	0.47
2:B:399:LEU:CD1	2:B:415:LEU:CD2	2.93	0.47
2:B:439:CYS:O	2:B:441:GLN:N	2.48	0.47
3:S:53:THR:O	3:S:69:ASN:ND2	2.48	0.47
3:S:76:ILE:O	3:S:86:THR:HA	2.14	0.47
4:M:16:PHE:HA	4:M:118:TYR:HE2	1.78	0.47
4:M:223:HIS:CD2	4:M:478:ASN:CB	2.98	0.47
4:M:246:VAL:HA	4:M:470:ALA:HB2	1.96	0.47
4:M:257:ALA:HB3	4:M:453:ASP:OD2	2.15	0.47
4:M:290:PHE:CE1	4:M:297:PHE:CE2	3.03	0.47
4:M:327:PHE:HE1	4:M:336:ASP:CG	2.22	0.47
1:A:84:MET:SD	1:A:112:GLN:O	2.73	0.47
1:A:134:TYR:CD2	1:A:136:GLY:N	2.81	0.47
1:A:291:ILE:HG12	1:A:322:PHE:CE2	2.50	0.47
1:A:319:LEU:O	1:A:321:THR:N	2.47	0.47
1:A:522:PHE:C	1:A:524:THR:N	2.72	0.47
1:A:586:GLU:HB2	1:A:604:LEU:CD1	2.45	0.47
2:B:12:LEU:HD22	4:M:13:LYS:CG	2.45	0.47
2:B:219:TYR:O	2:B:223:LEU:CG	2.63	0.47
2:B:267:ASP:CB	2:B:289:PRO:HG3	2.45	0.47
2:B:313:SER:O	2:B:315:PRO:HD3	2.14	0.47
2:B:334:MET:HG3	2:B:369:LEU:HD23	1.97	0.47
3:S:38:LEU:CB	3:S:51:LEU:HD13	2.44	0.47
4:M:99:ILE:O	4:M:103:TYR:CD1	2.68	0.47
4:M:120:ARG:C	4:M:124:ILE:HD12	2.39	0.47
4:M:217:ASP:O	4:M:472:TYR:CD1	2.67	0.47
4:M:221:THR:CB	4:M:474:THR:OG1	2.62	0.47
4:M:347:PHE:CD2	4:M:350:VAL:O	2.68	0.47
4:M:435:LEU:CB	4:M:437:TYR:CE1	2.94	0.47
1:A:95:MET:HB2	1:A:127:LEU:HD23	1.96	0.47
1:A:166:LEU:O	1:A:170:LEU:CD2	2.63	0.47
1:A:219:VAL:CG2	1:A:256:LEU:HD21	2.40	0.47
1:A:561:ASN:O	1:A:562:TRP:C	2.57	0.47
2:B:403:ILE:O	2:B:403:ILE:HG13	2.15	0.47
2:B:404:ASN:O	2:B:405:GLU:O	2.29	0.47
2:B:471:TYR:O	2:B:474:VAL:HB	2.14	0.47
2:B:549:LEU:HD23	2:B:610:ARG:HB2	1.96	0.47
2:B:592:TYR:CE2	2:B:618:PHE:CE2	3.03	0.47
3:S:151:ALA:O	3:S:154:ASP:N	2.41	0.47
4:M:374:TYR:CE1	4:M:393:GLY:HA2	2.44	0.47
1:A:322:PHE:HD1	1:A:330:LEU:HD21	1.75	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:423:ASN:CG	3:S:62:GLU:OE1	2.58	0.47
2:B:83:PHE:CD2	2:B:108:PHE:CB	2.97	0.47
2:B:178:ILE:CG1	2:B:214:ALA:O	2.53	0.47
2:B:181:TYR:CB	2:B:218:CYS:HG	2.27	0.47
2:B:230:PHE:CD1	2:B:234:CYS:SG	3.00	0.47
2:B:238:LYS:HG3	2:B:305:SER:OG	2.15	0.47
2:B:306:LEU:CD1	2:B:325:LEU:HD21	2.44	0.47
3:S:7:ILE:HD13	3:S:16:LEU:HD23	1.96	0.47
4:M:41:LEU:HD13	4:M:52:ASP:CB	2.45	0.47
4:M:100:LEU:O	4:M:109:LEU:HD21	2.15	0.47
4:M:218:LEU:HG	4:M:472:TYR:HE2	1.80	0.47
4:M:351:SER:HB2	4:M:441:GLY:C	2.40	0.47
4:M:362:PHE:C	4:M:363:ASN:O	2.55	0.47
4:M:433:VAL:HG13	4:M:435:LEU:HD11	1.96	0.47
1:A:78:GLU:C	1:A:80:TYR:O	2.58	0.46
1:A:151:SER:O	1:A:153:ILE:N	2.45	0.46
2:B:35:TYR:O	2:B:42:ILE:HG13	2.15	0.46
2:B:120:ILE:HD12	2:B:142:LEU:HD22	1.95	0.46
2:B:246:SER:HA	2:B:249:ILE:HD12	1.97	0.46
2:B:274:PRO:HG3	2:B:295:ASN:CA	2.33	0.46
2:B:278:PRO:CG	2:B:292:GLU:HB2	2.37	0.46
2:B:310:ILE:HG21	2:B:342:ALA:C	2.40	0.46
2:B:315:PRO:HA	2:B:318:ILE:HD12	1.97	0.46
2:B:337:THR:CA	2:B:373:LEU:CG	2.49	0.46
2:B:399:LEU:CD1	2:B:415:LEU:HD21	2.38	0.46
2:B:424:PHE:CE1	2:B:428:VAL:HG11	2.49	0.46
2:B:568:VAL:C	2:B:571:SER:OG	2.57	0.46
3:S:53:THR:HG23	3:S:57:LEU:HB3	1.97	0.46
3:S:102:ILE:O	3:S:105:PHE:HB3	2.15	0.46
4:M:2:TYR:HB3	4:M:23:THR:O	2.15	0.46
4:M:45:SER:HB2	4:M:75:TRP:CZ3	2.50	0.46
4:M:69:ILE:HD12	4:M:94:GLU:CA	2.44	0.46
4:M:222:PHE:CB	4:M:479:PHE:HZ	2.22	0.46
4:M:280:ASP:OD1	4:M:282:VAL:HB	2.15	0.46
4:M:338:PHE:CD1	4:M:415:ILE:CD1	2.98	0.46
1:A:150:LEU:C	1:A:153:ILE:H	2.22	0.46
1:A:294:SER:O	1:A:298:ILE:HG12	2.15	0.46
1:A:461:CYS:HB2	1:A:469:LEU:HD23	1.96	0.46
1:A:533:ILE:HD12	1:A:555:LEU:HD22	1.97	0.46
1:A:565:ASN:O	1:A:567:GLN:HG2	2.15	0.46
2:B:90:ILE:HB	2:B:101:ILE:HG21	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:123:LEU:HD12	2:B:142:LEU:HD23	1.95	0.46
2:B:178:ILE:HG23	2:B:218:CYS:N	2.29	0.46
2:B:219:TYR:O	2:B:223:LEU:HG	2.15	0.46
2:B:261:PRO:C	2:B:290:SER:HB3	2.41	0.46
2:B:267:ASP:H	2:B:289:PRO:CB	2.28	0.46
2:B:371:GLN:C	2:B:373:LEU:N	2.70	0.46
4:M:19:LEU:HD11	4:M:24:ALA:HB2	1.96	0.46
4:M:121:ILE:HG22	4:M:125:PHE:CZ	2.50	0.46
4:M:126:ASN:C	4:M:128:CYS:H	2.22	0.46
4:M:217:ASP:CG	4:M:470:ALA:O	2.58	0.46
4:M:222:PHE:CA	4:M:479:PHE:CZ	2.97	0.46
4:M:244:VAL:O	4:M:299:LEU:CA	2.63	0.46
4:M:374:TYR:OH	4:M:395:GLY:N	2.47	0.46
1:A:219:VAL:HG22	1:A:240:LEU:HD22	1.98	0.46
1:A:259:LEU:HD23	1:A:259:LEU:C	2.40	0.46
1:A:300:LYS:O	1:A:302:ASN:N	2.48	0.46
1:A:355:LEU:O	1:A:359:LEU:HG	2.15	0.46
1:A:399:ASP:H	1:A:418:ILE:CD1	2.23	0.46
1:A:581:LEU:HG	1:A:607:LEU:HD11	1.95	0.46
1:A:625:LEU:HD11	1:A:629:LEU:HD12	1.98	0.46
2:B:106:LEU:CG	2:B:144:ASP:HB2	2.40	0.46
2:B:120:ILE:CG1	2:B:150:LEU:HD13	2.44	0.46
2:B:158:VAL:CG1	2:B:173:VAL:HG12	2.36	0.46
2:B:198:GLU:O	2:B:201:ALA:HB3	2.15	0.46
2:B:396:ILE:HD13	2:B:432:ALA:HA	1.91	0.46
2:B:450:VAL:O	2:B:453:TRP:HB2	2.16	0.46
2:B:557:SER:O	2:B:560:ILE:N	2.48	0.46
4:M:226:PHE:CD1	4:M:235:LEU:HA	2.50	0.46
4:M:359:ASP:HA	4:M:395:GLY:O	2.15	0.46
4:M:364:VAL:HA	4:M:367:ALA:O	2.15	0.46
1:A:128:LEU:CD1	1:A:150:LEU:CD2	2.94	0.46
1:A:215:VAL:O	1:A:219:VAL:HG23	2.16	0.46
1:A:408:ILE:CG2	3:S:41:GLN:HB3	2.09	0.46
1:A:422:GLU:H	3:S:62:GLU:HB3	1.80	0.46
1:A:462:GLN:O	1:A:464:ILE:N	2.49	0.46
2:B:253:ILE:CG1	2:B:324:ALA:HB1	2.44	0.46
2:B:534:ILE:C	2:B:536:ASN:H	2.22	0.46
4:M:4:SER:OG	4:M:18:TYR:O	2.15	0.46
4:M:8:THR:HA	4:M:15:ILE:HG12	1.98	0.46
4:M:283:PHE:HE2	4:M:289:THR:CB	2.25	0.46
1:A:244:LEU:CG	1:A:281:LEU:CD1	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:401:VAL:HG23	1:A:418:ILE:O	2.16	0.46
1:A:461:CYS:SG	1:A:464:ILE:HG22	2.55	0.46
1:A:528:ASN:O	1:A:530:ASN:N	2.46	0.46
2:B:43:ASN:HB3	2:B:44:PRO:CD	2.45	0.46
2:B:71:ALA:CB	4:M:19:LEU:N	2.76	0.46
2:B:136:CYS:CB	2:B:172:GLU:CG	2.77	0.46
2:B:212:VAL:N	2:B:233:TYR:OH	2.45	0.46
2:B:213:LEU:HD22	4:M:136:VAL:CG2	2.46	0.46
2:B:250:GLU:OE2	4:M:136:VAL:HG22	2.15	0.46
4:M:223:HIS:HE1	4:M:476:THR:H	1.62	0.46
4:M:224:VAL:HG11	4:M:226:PHE:CE2	2.49	0.46
1:A:91:ILE:CG2	1:A:106:GLY:O	2.64	0.46
1:A:409:VAL:CG2	1:A:410:TYR:N	2.78	0.46
1:A:471:SER:HA	1:A:510:THR:HG21	1.96	0.46
2:B:295:ASN:C	2:B:296:ASP:O	2.58	0.46
2:B:321:CYS:O	2:B:325:LEU:HG	2.15	0.46
2:B:334:MET:O	2:B:335:LYS:C	2.56	0.46
2:B:399:LEU:HD13	2:B:415:LEU:HG	1.97	0.46
2:B:477:MET:O	2:B:480:GLN:N	2.46	0.46
4:M:347:PHE:HA	4:M:350:VAL:CG2	2.46	0.46
4:M:422:PRO:C	4:M:424:PHE:H	2.24	0.46
1:A:67:LYS:HB2	3:S:166:LYS:NZ	2.31	0.46
1:A:179:LYS:NZ	3:S:141:VAL:CA	2.71	0.46
1:A:247:ILE:HG21	1:A:252:ILE:CG2	2.45	0.46
1:A:254:ILE:CD1	3:S:96:LEU:HB2	2.44	0.46
1:A:395:PHE:CZ	1:A:428:MET:HB2	2.51	0.46
1:A:554:ALA:O	1:A:557:LYS:HB2	2.15	0.46
1:A:594:PHE:HZ	2:B:477:MET:CE	2.28	0.46
2:B:10:SER:C	2:B:40:GLN:NE2	2.70	0.46
2:B:27:THR:CB	2:B:57:ARG:HD2	2.38	0.46
2:B:66:ILE:HG22	2:B:104:TYR:CE1	2.51	0.46
2:B:293:VAL:CA	2:B:299:LEU:CG	2.87	0.46
2:B:574:ASN:O	2:B:575:ASN:C	2.50	0.46
3:S:87:PHE:CD2	3:S:102:ILE:HG12	2.51	0.46
4:M:5:PHE:CD2	4:M:20:LEU:CD1	2.98	0.46
4:M:133:GLU:O	4:M:135:ASN:N	2.47	0.46
4:M:215:TYR:HB3	4:M:470:ALA:H	1.81	0.46
4:M:222:PHE:CZ	4:M:439:TYR:CE2	3.04	0.46
4:M:222:PHE:CG	4:M:439:TYR:HE2	2.31	0.46
4:M:246:VAL:HA	4:M:470:ALA:CB	2.45	0.46
4:M:300:LEU:HD11	4:M:447:ILE:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:322:LEU:O	4:M:322:LEU:HD23	2.16	0.46
4:M:435:LEU:O	4:M:437:TYR:HE1	1.99	0.46
1:A:200:PHE:CZ	1:A:236:LEU:CG	2.98	0.46
1:A:204:VAL:O	1:A:206:LYS:N	2.48	0.46
1:A:280:GLU:O	1:A:283:GLU:HB3	2.15	0.46
1:A:558:VAL:HG12	1:A:562:TRP:CD2	2.50	0.46
2:B:9:ALA:HB1	4:M:14:LEU:HD12	1.97	0.46
2:B:256:CYS:HB3	2:B:328:LEU:CD2	2.35	0.46
2:B:389:ILE:O	2:B:390:VAL:O	2.32	0.46
2:B:398:ILE:C	2:B:400:SER:H	2.24	0.46
2:B:549:LEU:CD2	2:B:610:ARG:HB2	2.46	0.46
3:S:2:ILE:CD1	3:S:101:LEU:HD22	2.45	0.46
4:M:119:ASP:C	4:M:121:ILE:H	2.24	0.46
4:M:121:ILE:HG23	4:M:125:PHE:HE1	1.81	0.46
4:M:214:LEU:C	4:M:214:LEU:CD2	2.80	0.46
4:M:376:ILE:CD1	4:M:415:ILE:HG23	2.46	0.46
4:M:435:LEU:HD12	4:M:435:LEU:N	2.31	0.46
1:A:170:LEU:HD13	1:A:170:LEU:HA	1.80	0.46
1:A:219:VAL:HG22	1:A:240:LEU:CD2	2.46	0.46
1:A:244:LEU:CB	1:A:256:LEU:HD13	2.46	0.46
1:A:275:LEU:HD12	1:A:303:MET:SD	2.55	0.46
1:A:405:THR:CA	2:B:7:ARG:CZ	2.89	0.46
2:B:21:GLU:HA	2:B:21:GLU:OE1	2.16	0.46
2:B:127:LEU:CG	2:B:157:THR:HG21	2.46	0.46
2:B:169:VAL:HG12	2:B:173:VAL:CG2	2.46	0.46
2:B:285:GLU:O	2:B:286:ILE:O	2.31	0.46
2:B:359:LEU:O	2:B:363:ILE:HG12	2.16	0.46
2:B:378:THR:OG1	2:B:411:ILE:HG12	2.16	0.46
2:B:408:VAL:CG1	2:B:446:TRP:CB	2.93	0.46
2:B:431:MET:C	2:B:433:VAL:N	2.73	0.46
2:B:500:GLN:CB	2:B:503:LEU:HG	2.46	0.46
2:B:591:MET:O	2:B:595:VAL:HG23	2.16	0.46
3:S:50:PHE:HA	3:S:77:TYR:CD1	2.45	0.46
4:M:51:LEU:H	4:M:51:LEU:CD1	2.28	0.46
4:M:110:SER:C	4:M:112:LYS:N	2.73	0.46
4:M:119:ASP:C	4:M:121:ILE:N	2.74	0.46
4:M:374:TYR:CD2	4:M:376:ILE:HD11	2.51	0.46
4:M:442:GLN:CG	4:M:443:SER:N	2.76	0.46
1:A:166:LEU:O	1:A:170:LEU:HD22	2.16	0.46
1:A:244:LEU:HD22	1:A:260:PHE:HE2	1.81	0.46
1:A:316:LEU:HD11	1:A:348:PHE:CE2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:LYS:O	1:A:394:GLN:C	2.58	0.46
1:A:436:CYS:CB	1:A:450:TYR:CZ	2.99	0.46
2:B:47:LEU:HD21	2:B:65:ARG:HB3	1.97	0.46
2:B:208:ILE:O	2:B:209:SER:C	2.58	0.46
2:B:230:PHE:HB3	2:B:298:ASP:CG	2.41	0.46
3:S:83:LEU:HD12	3:S:116:VAL:HG11	1.97	0.46
3:S:132:LEU:O	3:S:136:VAL:HG23	2.16	0.46
4:M:118:TYR:O	4:M:121:ILE:HB	2.16	0.46
4:M:242:GLY:N	4:M:444:ALA:HB2	2.31	0.46
4:M:304:VAL:CB	4:M:445:SER:HA	2.46	0.46
4:M:436:GLU:HG3	4:M:436:GLU:O	2.16	0.46
4:M:437:TYR:CB	4:M:439:TYR:CZ	2.99	0.46
1:A:103:LYS:O	1:A:104:ARG:O	2.34	0.45
1:A:104:ARG:CG	1:A:145:ILE:HG13	2.46	0.45
1:A:182:ILE:HG23	1:A:221:VAL:HG21	1.93	0.45
1:A:189:PHE:C	1:A:191:GLN:N	2.68	0.45
2:B:35:TYR:CE1	4:M:118:TYR:CZ	3.04	0.45
2:B:75:ASP:CG	4:M:24:ALA:N	2.70	0.45
2:B:310:ILE:HG23	2:B:318:ILE:HG12	1.98	0.45
2:B:344:VAL:HG22	2:B:381:PHE:CE2	2.51	0.45
2:B:386:LYS:CE	4:M:478:ASN:OD1	2.62	0.45
2:B:418:TYR:OH	2:B:432:ALA:HB3	2.07	0.45
2:B:418:TYR:CE1	2:B:419:VAL:HG22	2.52	0.45
2:B:435:SER:C	2:B:437:SER:H	2.22	0.45
2:B:447:GLU:O	2:B:450:VAL:HB	2.16	0.45
3:S:53:THR:CG2	3:S:67:GLU:C	2.89	0.45
3:S:68:VAL:O	3:S:75:ILE:CD1	2.65	0.45
4:M:67:SER:OG	4:M:90:PHE:CD1	2.54	0.45
4:M:322:LEU:HD23	4:M:322:LEU:C	2.41	0.45
4:M:437:TYR:HD1	4:M:479:PHE:CE1	2.33	0.45
1:A:185:LEU:HB3	1:A:203:PHE:CE1	2.48	0.45
1:A:256:LEU:O	1:A:260:PHE:CD2	2.69	0.45
1:A:399:ASP:HA	1:A:420:ILE:HB	1.98	0.45
1:A:402:ILE:O	1:A:403:LEU:C	2.56	0.45
1:A:450:TYR:O	1:A:454:ILE:HG12	2.16	0.45
1:A:617:ASP:OD1	1:A:618:THR:N	2.46	0.45
1:A:638:LEU:HD21	2:B:561:ASP:CB	2.45	0.45
2:B:276:SER:OG	2:B:289:PRO:HG3	2.17	0.45
2:B:577:ASN:O	2:B:578:PRO:O	2.35	0.45
4:M:229:LYS:HE2	4:M:230:LYS:HE3	1.98	0.45
4:M:350:VAL:N	4:M:442:GLN:HE21	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:480:GLN:OE1	4:M:482:ARG:NH2	2.46	0.45
1:A:85:ALA:C	1:A:87:CYS:H	2.25	0.45
1:A:179:LYS:NZ	3:S:141:VAL:C	2.57	0.45
1:A:366:SER:O	1:A:370:LYS:HG2	2.17	0.45
2:B:106:LEU:HG	4:M:130:GLU:CB	2.41	0.45
2:B:123:LEU:CD1	2:B:142:LEU:CD2	2.94	0.45
2:B:155:LEU:HD21	2:B:192:LEU:CD1	2.10	0.45
2:B:375:LEU:O	2:B:376:PRO:C	2.32	0.45
4:M:291:ILE:HG12	4:M:292:PRO:HD2	1.98	0.45
4:M:293:PRO:C	4:M:294:ASP:O	2.34	0.45
4:M:338:PHE:CD1	4:M:415:ILE:CG1	2.97	0.45
4:M:410:VAL:HG11	4:M:412:ARG:CZ	2.47	0.45
1:A:186:PHE:CB	1:A:221:VAL:HG13	2.45	0.45
1:A:356:ILE:HD11	1:A:374:LEU:HD23	1.99	0.45
1:A:480:LEU:C	1:A:480:LEU:CD1	2.89	0.45
1:A:497:LYS:O	1:A:500:SER:N	2.41	0.45
2:B:143:SER:CA	2:B:179:LYS:HB2	2.43	0.45
2:B:252:LEU:C	2:B:302:PHE:CZ	2.94	0.45
2:B:261:PRO:HB2	2:B:290:SER:OG	2.17	0.45
4:M:220:GLU:OE1	4:M:222:PHE:HZ	1.99	0.45
4:M:280:ASP:CG	4:M:282:VAL:HG23	2.42	0.45
4:M:290:PHE:CE2	4:M:291:ILE:O	2.70	0.45
1:A:87:CYS:O	1:A:91:ILE:HG12	2.17	0.45
1:A:476:GLN:OE1	1:A:476:GLN:HA	2.16	0.45
2:B:72:SER:C	4:M:17:GLN:NE2	2.59	0.45
2:B:103:LEU:HD22	4:M:127:CYS:HA	1.97	0.45
2:B:319:LEU:HD22	2:B:358:MET:HB3	1.96	0.45
2:B:341:GLU:N	2:B:377:TYR:CE2	2.84	0.45
2:B:374:PHE:CE1	2:B:381:PHE:HE2	2.20	0.45
2:B:437:SER:C	2:B:439:CYS:H	2.24	0.45
2:B:458:MET:SD	2:B:471:TYR:CB	2.98	0.45
2:B:474:VAL:O	2:B:476:ARG:N	2.49	0.45
2:B:592:TYR:CE2	2:B:618:PHE:CD2	3.04	0.45
3:S:30:LEU:O	3:S:34:GLN:HG3	2.16	0.45
4:M:20:LEU:CD2	4:M:129:VAL:CG2	2.71	0.45
4:M:42:LEU:HD23	4:M:51:LEU:CG	2.46	0.45
4:M:57:GLY:O	4:M:58:ARG:HG3	2.17	0.45
4:M:223:HIS:CD2	4:M:479:PHE:CE1	3.04	0.45
4:M:245:ASP:HA	4:M:297:PHE:O	2.16	0.45
4:M:261:ASN:N	4:M:448:TYR:O	2.42	0.45
4:M:374:TYR:CE2	4:M:376:ILE:HD11	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:258:LYS:HZ1	3:S:93:GLU:CA	1.88	0.45
1:A:364:ASP:O	1:A:367:ILE:HB	2.17	0.45
1:A:413:SER:O	1:A:415:ARG:O	2.35	0.45
1:A:492:ILE:HD13	1:A:526:VAL:HG21	1.99	0.45
1:A:566:PHE:HD1	1:A:570:LYS:HA	1.76	0.45
1:A:623:MET:O	1:A:627:GLU:HG3	2.16	0.45
2:B:5:ILE:HD11	4:M:39:PRO:CB	2.46	0.45
2:B:27:THR:HB	2:B:57:ARG:CD	2.40	0.45
2:B:100:LEU:CD2	4:M:123:LEU:HD13	2.46	0.45
2:B:120:ILE:HA	2:B:142:LEU:CD2	2.44	0.45
2:B:143:SER:CA	2:B:179:LYS:HD2	2.46	0.45
2:B:354:GLY:HA2	4:M:49:ASP:OD1	2.17	0.45
2:B:364:HIS:NE2	2:B:368:ILE:HD11	2.32	0.45
2:B:416:LYS:HA	2:B:457:HIS:NE2	2.30	0.45
2:B:549:LEU:HD21	2:B:611:ALA:H	1.80	0.45
2:B:602:ASP:OD1	2:B:603:ASP:N	2.50	0.45
4:M:16:PHE:HA	4:M:118:TYR:CD2	2.52	0.45
4:M:215:TYR:CD2	4:M:469:GLY:N	2.80	0.45
4:M:376:ILE:HB	4:M:388:ASN:OD1	2.17	0.45
1:A:158:LEU:HD12	1:A:162:ILE:HG13	1.98	0.45
1:A:259:LEU:O	1:A:262:ASN:HB2	2.16	0.45
1:A:407:SER:O	3:S:64:ASN:CG	2.51	0.45
1:A:496:ILE:HG13	1:A:532:LEU:CD1	2.47	0.45
2:B:9:ALA:CB	4:M:14:LEU:CD1	2.94	0.45
2:B:18:ILE:O	2:B:33:SER:HA	2.16	0.45
2:B:22:ALA:N	2:B:33:SER:N	2.56	0.45
2:B:144:ASP:OD2	4:M:131:ALA:CB	2.65	0.45
2:B:312:SER:CA	4:M:269:ILE:CG1	2.92	0.45
2:B:318:ILE:CG2	2:B:346:THR:OG1	2.62	0.45
2:B:327:GLN:O	2:B:329:ALA:N	2.50	0.45
2:B:396:ILE:CG1	2:B:418:TYR:HE2	2.25	0.45
2:B:397:GLN:O	2:B:400:SER:OG	2.30	0.45
2:B:408:VAL:HG11	2:B:446:TRP:HB2	1.95	0.45
3:S:53:THR:CG2	3:S:57:LEU:CB	2.95	0.45
4:M:7:ILE:HD11	4:M:121:ILE:CG2	2.45	0.45
4:M:65:TYR:CE2	4:M:86:PRO:CB	2.95	0.45
4:M:281:GLY:N	4:M:283:PHE:O	2.50	0.45
1:A:498:LEU:O	1:A:501:ASN:O	2.35	0.45
2:B:208:ILE:HG21	2:B:236:ILE:HG21	1.98	0.45
2:B:231:ARG:C	2:B:233:TYR:H	2.25	0.45
2:B:394:TRP:CZ3	2:B:397:GLN:OE1	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:418:TYR:O	2:B:419:VAL:O	2.32	0.45
2:B:564:LYS:HG2	2:B:565:GLN:H	1.82	0.45
2:B:574:ASN:O	2:B:576:GLN:N	2.49	0.45
3:S:5:VAL:O	3:S:17:VAL:HG23	2.16	0.45
3:S:61:ASN:O	3:S:62:GLU:C	2.59	0.45
4:M:58:ARG:C	4:M:60:LEU:O	2.59	0.45
4:M:372:ILE:CD1	4:M:428:VAL:HG13	2.47	0.45
1:A:63:ASP:OD1	1:A:63:ASP:C	2.60	0.45
1:A:128:LEU:HD13	1:A:150:LEU:CD2	2.47	0.45
1:A:215:VAL:O	1:A:216:SER:O	2.34	0.45
1:A:219:VAL:HG11	1:A:256:LEU:CD2	2.47	0.45
1:A:316:LEU:HD12	1:A:348:PHE:CE2	2.49	0.45
1:A:563:CYS:CB	1:A:621:LEU:HD11	2.18	0.45
2:B:18:ILE:HG21	2:B:36:THR:C	2.32	0.45
2:B:34:SER:C	2:B:37:TYR:H	2.22	0.45
2:B:461:HIS:O	2:B:462:ASN:C	2.51	0.45
3:S:60:SER:O	3:S:66:ASP:CB	2.65	0.45
3:S:155:GLU:HA	3:S:158:LYS:HE2	1.99	0.45
4:M:240:ILE:CG2	4:M:444:ALA:C	2.90	0.45
4:M:372:ILE:HD12	4:M:428:VAL:CG2	2.47	0.45
4:M:453:ASP:OD1	4:M:453:ASP:O	2.35	0.45
1:A:114:PHE:CD1	1:A:114:PHE:C	2.94	0.45
1:A:399:ASP:OD2	1:A:403:LEU:HD12	2.17	0.45
1:A:450:TYR:CE1	1:A:454:ILE:HD11	2.52	0.45
1:A:499:ILE:HG12	1:A:512:LEU:CD2	2.47	0.45
1:A:638:LEU:HD21	2:B:561:ASP:CA	2.35	0.45
1:A:638:LEU:HD12	2:B:558:TYR:CA	2.46	0.45
2:B:17:VAL:HG23	2:B:35:TYR:CD2	2.27	0.45
2:B:87:VAL:HG11	2:B:118:LEU:HG	1.99	0.45
2:B:226:LEU:HD21	2:B:255:TYR:CG	2.50	0.45
2:B:247:TYR:HD1	4:M:136:VAL:CG1	2.22	0.45
2:B:343:LEU:HG	2:B:363:ILE:CD1	2.47	0.45
2:B:344:VAL:CG2	2:B:374:PHE:CD1	3.00	0.45
2:B:396:ILE:HD11	2:B:432:ALA:HB2	1.90	0.45
2:B:433:VAL:CG2	2:B:471:TYR:CG	3.00	0.45
2:B:447:GLU:OE1	2:B:485:LYS:CB	2.64	0.45
3:S:57:LEU:N	3:S:58:LEU:O	2.47	0.45
3:S:65:ASN:O	3:S:67:GLU:CG	2.62	0.45
4:M:69:ILE:HD13	4:M:94:GLU:HA	1.95	0.45
4:M:242:GLY:CA	4:M:444:ALA:CB	2.93	0.45
4:M:261:ASN:CB	4:M:450:GLU:HG3	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:271:SER:N	4:M:301:GLU:O	2.35	0.45
1:A:166:LEU:CD1	1:A:185:LEU:HD23	2.47	0.44
1:A:216:SER:HB3	3:S:140:MET:CG	2.47	0.44
1:A:629:LEU:C	1:A:629:LEU:HD23	2.42	0.44
2:B:107:ARG:CZ	4:M:18:TYR:OH	2.65	0.44
2:B:116:THR:HG21	2:B:150:LEU:HD11	1.98	0.44
2:B:346:THR:O	2:B:350:THR:N	2.49	0.44
2:B:509:ALA:CB	2:B:547:GLN:HG3	2.45	0.44
2:B:546:CYS:HB2	2:B:607:ILE:CG1	2.47	0.44
2:B:565:GLN:CB	2:B:581:TYR:OH	2.65	0.44
3:S:151:ALA:O	3:S:154:ASP:HB2	2.17	0.44
4:M:270:PRO:CA	4:M:302:TYR:CD2	3.00	0.44
4:M:338:PHE:CD1	4:M:415:ILE:HD11	2.52	0.44
4:M:344:ILE:HG22	4:M:344:ILE:O	2.17	0.44
2:B:14:THR:CB	2:B:40:GLN:HE21	2.30	0.44
2:B:28:SER:C	2:B:30:LEU:C	2.85	0.44
2:B:106:LEU:HD11	2:B:144:ASP:CB	2.00	0.44
2:B:181:TYR:HB2	2:B:218:CYS:SG	2.57	0.44
2:B:234:CYS:CB	2:B:301:LEU:HB2	2.46	0.44
2:B:252:LEU:CA	2:B:302:PHE:CE2	3.01	0.44
2:B:270:SER:O	2:B:273:SER:CB	2.64	0.44
2:B:371:GLN:O	2:B:373:LEU:N	2.50	0.44
2:B:396:ILE:CD1	2:B:418:TYR:CE2	3.00	0.44
2:B:418:TYR:CE2	2:B:432:ALA:HB2	2.51	0.44
2:B:431:MET:O	2:B:434:LYS:N	2.50	0.44
2:B:562:ASN:HB3	2:B:580:TYR:HB2	2.00	0.44
2:B:565:GLN:HB3	2:B:581:TYR:CZ	2.51	0.44
2:B:589:SER:C	2:B:591:MET:N	2.74	0.44
4:M:102:GLU:O	4:M:103:TYR:C	2.56	0.44
4:M:217:ASP:O	4:M:472:TYR:CD2	2.71	0.44
4:M:434:SER:CB	4:M:479:PHE:O	2.65	0.44
1:A:92:LEU:CD1	1:A:123:LEU:CD1	2.96	0.44
1:A:180:LYS:HZ3	3:S:137:GLN:CB	2.30	0.44
1:A:290:VAL:O	1:A:293:GLU:HB3	2.16	0.44
1:A:435:ILE:HG22	1:A:441:TYR:CE2	2.53	0.44
1:A:532:LEU:O	1:A:536:MET:HE3	2.17	0.44
1:A:595:GLU:OE2	2:B:513:TRP:CE2	2.70	0.44
2:B:268:LYS:HA	2:B:276:SER:CB	2.40	0.44
2:B:361:GLN:O	2:B:364:HIS:HB3	2.17	0.44
2:B:366:LEU:C	2:B:368:ILE:N	2.74	0.44
2:B:440:GLY:O	2:B:442:LEU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:520:SER:O	2:B:523:PHE:HE1	2.01	0.44
2:B:566:ALA:O	2:B:574:ASN:CB	2.65	0.44
3:S:93:GLU:CG	3:S:98:ILE:HD11	2.48	0.44
3:S:100:ASP:O	3:S:104:THR:OG1	2.18	0.44
4:M:9:ASP:OD2	4:M:13:LYS:HB3	2.17	0.44
4:M:214:LEU:CD2	4:M:466:LEU:HG	2.47	0.44
4:M:223:HIS:CD2	4:M:479:PHE:CD1	3.05	0.44
4:M:320:ILE:HA	4:M:323:MET:CE	2.46	0.44
4:M:432:THR:O	4:M:432:THR:CG2	2.65	0.44
4:M:443:SER:CB	4:M:447:ILE:CG1	2.63	0.44
1:A:68:THR:O	1:A:72:LEU:HG	2.17	0.44
1:A:264:SER:HB2	1:A:271:ARG:HD3	2.00	0.44
2:B:141:ALA:O	2:B:145:MET:HG2	2.18	0.44
2:B:231:ARG:O	2:B:232:ARG:C	2.60	0.44
2:B:232:ARG:HG3	2:B:236:ILE:CG1	2.47	0.44
2:B:530:LEU:HD23	2:B:591:MET:CB	2.48	0.44
2:B:604:GLU:O	2:B:607:ILE:HB	2.18	0.44
3:S:8:PHE:HZ	3:S:86:THR:OG1	1.95	0.44
3:S:16:LEU:HB2	3:S:125:TRP:CE2	2.47	0.44
3:S:53:THR:HG21	3:S:57:LEU:C	2.42	0.44
4:M:44:ASP:C	4:M:46:SER:N	2.74	0.44
4:M:134:PRO:O	4:M:136:VAL:HG23	2.17	0.44
4:M:374:TYR:O	4:M:390:ILE:CG2	2.65	0.44
1:A:244:LEU:HB2	1:A:256:LEU:HD13	1.99	0.44
1:A:407:SER:CA	3:S:64:ASN:ND2	2.75	0.44
1:A:625:LEU:HD12	1:A:629:LEU:HB2	2.00	0.44
2:B:154:ILE:HB	2:B:180:LEU:HD13	1.99	0.44
2:B:174:ALA:CB	2:B:211:ALA:CA	2.80	0.44
2:B:374:PHE:CE2	2:B:398:ILE:HG23	2.48	0.44
2:B:545:ARG:HB2	2:B:607:ILE:HD13	2.00	0.44
3:S:16:LEU:HD11	3:S:129:GLU:HG2	1.96	0.44
4:M:90:PHE:O	4:M:93:LEU:HB2	2.16	0.44
4:M:103:TYR:CB	4:M:104:PHE:CD1	3.00	0.44
4:M:240:ILE:HG22	4:M:444:ALA:HA	1.82	0.44
1:A:68:THR:HB	3:S:166:LYS:CD	2.47	0.44
1:A:255:ARG:CZ	3:S:139:GLY:O	2.66	0.44
2:B:103:LEU:CB	4:M:126:ASN:ND2	2.60	0.44
2:B:107:ARG:NH2	4:M:18:TYR:CE2	2.85	0.44
2:B:144:ASP:OD1	4:M:132:GLY:N	2.51	0.44
2:B:200:MET:CE	2:B:229:HIS:CA	2.96	0.44
2:B:313:SER:CB	4:M:269:ILE:C	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:337:THR:O	2:B:373:LEU:HD11	2.16	0.44
4:M:217:ASP:N	4:M:472:TYR:CZ	2.86	0.44
4:M:219:LEU:HD22	4:M:474:THR:N	2.33	0.44
4:M:219:LEU:HD13	4:M:472:TYR:C	2.31	0.44
4:M:226:PHE:CZ	4:M:321:GLY:C	2.95	0.44
4:M:347:PHE:HE1	4:M:350:VAL:CG1	1.91	0.44
1:A:185:LEU:HB2	1:A:203:PHE:CE1	2.52	0.44
1:A:375:VAL:HG11	1:A:387:ILE:HG21	1.98	0.44
1:A:405:THR:OG1	1:A:406:GLY:N	2.51	0.44
2:B:83:PHE:CD1	2:B:87:VAL:CG2	3.00	0.44
2:B:188:TYR:HB3	2:B:192:LEU:CD1	2.47	0.44
2:B:216:LYS:NZ	4:M:133:GLU:OE2	2.49	0.44
2:B:266:VAL:HG12	2:B:275:ARG:HB3	1.99	0.44
2:B:303:LEU:HB3	2:B:339:PHE:CZ	2.53	0.44
2:B:572:GLU:O	2:B:575:ASN:N	2.43	0.44
4:M:270:PRO:HA	4:M:302:TYR:HD2	1.83	0.44
4:M:374:TYR:HB3	4:M:417:TYR:CD1	2.44	0.44
1:A:153:ILE:HB	1:A:158:LEU:HD21	1.99	0.44
1:A:170:LEU:CD2	1:A:181:ALA:HB1	2.44	0.44
1:A:260:PHE:CE2	1:A:274:LEU:CD1	3.00	0.44
1:A:264:SER:HB3	1:A:271:ARG:HG2	2.00	0.44
1:A:495:ILE:HD12	1:A:515:CYS:SG	2.58	0.44
1:A:506:LYS:HB3	4:M:61:GLU:HG3	0.80	0.44
2:B:103:LEU:CD2	4:M:127:CYS:HA	2.48	0.44
2:B:123:LEU:CD1	2:B:142:LEU:HG	2.45	0.44
2:B:178:ILE:HD13	2:B:178:ILE:HA	1.90	0.44
2:B:238:LYS:HE3	2:B:305:SER:OG	2.18	0.44
2:B:389:ILE:O	2:B:393:ILE:HG13	2.17	0.44
2:B:392:SER:OG	2:B:424:PHE:HE1	2.01	0.44
2:B:430:ILE:CG1	2:B:467:VAL:HA	2.43	0.44
2:B:514:LEU:O	2:B:517:GLU:HB2	2.18	0.44
2:B:572:GLU:C	2:B:574:ASN:H	2.26	0.44
4:M:121:ILE:CG2	4:M:125:PHE:CZ	3.01	0.44
4:M:242:GLY:O	4:M:301:GLU:CA	2.60	0.44
1:A:585:PHE:CA	1:A:600:SER:HG	2.14	0.44
1:A:638:LEU:HD13	2:B:557:SER:CA	2.46	0.44
2:B:47:LEU:CD2	2:B:65:ARG:HB2	2.48	0.44
2:B:112:ASP:CG	2:B:115:LEU:HD23	2.43	0.44
2:B:123:LEU:O	2:B:127:LEU:HG	2.18	0.44
2:B:212:VAL:HG22	2:B:233:TYR:CE1	2.51	0.44
2:B:239:GLN:CA	4:M:279:ASN:O	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:545:ARG:HD3	2:B:602:ASP:OD2	2.18	0.44
3:S:53:THR:C	3:S:69:ASN:CB	2.90	0.44
3:S:133:GLU:C	3:S:135:ILE:N	2.75	0.44
4:M:74:TYR:HB3	4:M:114:ILE:HD12	1.94	0.44
4:M:304:VAL:O	4:M:304:VAL:HG13	2.18	0.44
4:M:357:LYS:HB2	4:M:436:GLU:OE2	2.17	0.44
4:M:437:TYR:HB2	4:M:439:TYR:CZ	2.52	0.44
1:A:114:PHE:HE1	1:A:154:ILE:HG12	1.83	0.43
1:A:314:ALA:O	1:A:318:ARG:HD3	2.18	0.43
2:B:171:GLY:CA	2:B:207:VAL:HA	2.48	0.43
2:B:176:ALA:C	2:B:178:ILE:H	2.26	0.43
2:B:224:GLU:HA	2:B:259:TYR:OH	0.58	0.43
2:B:306:LEU:HD12	2:B:325:LEU:HD23	2.00	0.43
2:B:329:ALA:O	2:B:331:PRO:HD3	2.18	0.43
2:B:469:ASP:OD1	2:B:507:ALA:CA	2.65	0.43
3:S:53:THR:HG21	3:S:69:ASN:N	2.33	0.43
4:M:222:PHE:CG	4:M:439:TYR:CE2	3.06	0.43
4:M:290:PHE:CE1	4:M:291:ILE:O	2.70	0.43
4:M:376:ILE:HG21	4:M:379:LEU:HD13	1.99	0.43
2:B:20:ARG:NH1	4:M:118:TYR:H	2.16	0.43
3:S:70:ASN:HD22	3:S:73:ILE:HD12	1.83	0.43
3:S:113:PHE:CD1	3:S:113:PHE:N	2.85	0.43
4:M:212:ASN:O	4:M:465:LYS:N	2.49	0.43
4:M:219:LEU:H	4:M:472:TYR:CB	2.29	0.43
4:M:223:HIS:HB3	4:M:479:PHE:N	2.32	0.43
4:M:321:GLY:C	4:M:323:MET:N	2.75	0.43
4:M:377:LYS:CE	4:M:416:GLU:OE1	2.67	0.43
1:A:153:ILE:HB	1:A:158:LEU:CD2	2.49	0.43
1:A:356:ILE:O	1:A:359:LEU:HB2	2.17	0.43
2:B:102:HIS:CE1	2:B:137:PHE:C	2.96	0.43
2:B:141:ALA:O	2:B:144:ASP:N	2.50	0.43
2:B:256:CYS:HB3	2:B:328:LEU:HD22	1.91	0.43
2:B:387:ASP:CG	2:B:388:PRO:HD2	2.42	0.43
2:B:430:ILE:O	2:B:433:VAL:HB	2.18	0.43
2:B:486:HIS:CE1	2:B:518:ILE:HB	2.53	0.43
2:B:513:TRP:CD1	2:B:513:TRP:C	2.96	0.43
3:S:8:PHE:CE1	3:S:84:TYR:C	2.97	0.43
4:M:118:TYR:C	4:M:118:TYR:HD1	2.26	0.43
4:M:216:VAL:O	4:M:216:VAL:CG2	2.66	0.43
4:M:245:ASP:HB2	4:M:472:TYR:CD1	2.46	0.43
4:M:273:HIS:HB3	4:M:276:VAL:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:291:ILE:CG1	4:M:292:PRO:CD	2.96	0.43
4:M:360:LEU:HD23	4:M:362:PHE:CZ	2.53	0.43
1:A:180:LYS:NZ	3:S:137:GLN:HB2	2.33	0.43
1:A:420:ILE:HA	1:A:421:PRO:HD3	1.83	0.43
1:A:594:PHE:O	1:A:597:GLN:HB3	2.18	0.43
1:A:617:ASP:CG	1:A:618:THR:N	2.76	0.43
2:B:79:VAL:CG2	2:B:108:PHE:CD2	3.00	0.43
2:B:89:ASN:O	2:B:92:THR:HB	2.18	0.43
2:B:152:PRO:CA	2:B:188:TYR:CE1	2.82	0.43
2:B:340:ILE:HG21	2:B:374:PHE:N	2.33	0.43
2:B:515:PHE:CG	2:B:529:VAL:HG11	2.54	0.43
2:B:526:CYS:H	2:B:527:PRO:HD3	1.80	0.43
3:S:55:PRO:HB3	3:S:71:GLU:CG	2.48	0.43
4:M:220:GLU:HB2	4:M:222:PHE:CE1	2.51	0.43
1:A:381:GLU:O	1:A:382:ASP:O	2.31	0.43
1:A:398:GLU:C	1:A:418:ILE:CG1	2.91	0.43
1:A:399:ASP:O	1:A:420:ILE:HB	2.18	0.43
1:A:606:PHE:CZ	1:A:633:PHE:HD1	2.32	0.43
2:B:262:LYS:O	2:B:263:PRO:C	2.50	0.43
2:B:292:GLU:CG	2:B:296:ASP:CB	2.96	0.43
2:B:424:PHE:HA	2:B:425:PRO:HD3	1.59	0.43
2:B:552:SER:CB	2:B:595:VAL:HG21	2.49	0.43
2:B:588:ILE:CG2	2:B:618:PHE:HZ	2.24	0.43
2:B:588:ILE:HD13	2:B:618:PHE:HE1	1.83	0.43
2:B:596:LEU:CD1	2:B:611:ALA:CB	2.89	0.43
2:B:602:ASP:O	2:B:608:ARG:NE	2.52	0.43
3:S:64:ASN:C	3:S:64:ASN:N	2.65	0.43
4:M:68:VAL:CG2	4:M:77:LEU:HD12	2.49	0.43
4:M:92:PHE:CE2	4:M:128:CYS:O	2.51	0.43
4:M:213:GLU:HA	4:M:465:LYS:O	2.18	0.43
4:M:219:LEU:HD22	4:M:473:LYS:C	2.41	0.43
4:M:222:PHE:HD1	4:M:222:PHE:N	2.16	0.43
4:M:262:THR:OG1	4:M:267:ILE:HG12	2.19	0.43
1:A:68:THR:OG1	3:S:166:LYS:HD2	2.19	0.43
1:A:132:LEU:CD1	1:A:150:LEU:CD1	2.96	0.43
1:A:356:ILE:HG12	1:A:374:LEU:HD22	2.00	0.43
1:A:509:PRO:HB3	1:A:547:VAL:CG2	2.48	0.43
1:A:537:THR:HB	1:A:584:PHE:CE2	2.53	0.43
1:A:625:LEU:HD11	1:A:629:LEU:HB2	2.01	0.43
2:B:9:ALA:HB1	4:M:14:LEU:CD1	2.48	0.43
2:B:212:VAL:C	2:B:214:ALA:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:279:LEU:CG	2:B:288:TYR:HD2	2.13	0.43
2:B:440:GLY:HA3	2:B:478:LEU:HD22	2.00	0.43
3:S:93:GLU:HB3	3:S:98:ILE:HD11	2.00	0.43
4:M:244:VAL:HG13	4:M:472:TYR:OH	2.18	0.43
4:M:336:ASP:OD1	4:M:415:ILE:HB	2.17	0.43
1:A:427:LYS:O	1:A:430:ASN:HB2	2.19	0.43
2:B:162:VAL:O	2:B:164:ASP:N	2.52	0.43
2:B:208:ILE:O	2:B:212:VAL:HG23	2.18	0.43
2:B:223:LEU:CD1	2:B:259:TYR:H	2.05	0.43
2:B:302:PHE:CE1	2:B:306:LEU:HD21	2.53	0.43
2:B:512:VAL:CG2	2:B:533:LEU:HD22	2.39	0.43
2:B:530:LEU:HD21	2:B:591:MET:HB3	2.00	0.43
2:B:537:PHE:C	2:B:539:ASN:N	2.75	0.43
2:B:592:TYR:CD2	2:B:618:PHE:CD2	3.06	0.43
3:S:58:LEU:HD12	3:S:68:VAL:HG13	2.00	0.43
4:M:136:VAL:CG1	4:M:137:SER:H	2.32	0.43
4:M:243:ILE:HG21	4:M:298:ARG:HG2	2.01	0.43
4:M:267:ILE:HG22	4:M:302:TYR:CE2	2.53	0.43
4:M:290:PHE:CZ	4:M:293:PRO:CG	3.02	0.43
4:M:290:PHE:CB	4:M:299:LEU:CD1	2.88	0.43
1:A:244:LEU:HD13	1:A:256:LEU:CB	2.49	0.43
1:A:341:ILE:HG21	1:A:348:PHE:HD2	1.84	0.43
1:A:356:ILE:HD13	1:A:374:LEU:HB3	2.00	0.43
1:A:413:SER:C	1:A:415:ARG:H	2.25	0.43
2:B:1:MET:CG	4:M:39:PRO:HG2	2.38	0.43
2:B:63:MET:O	2:B:63:MET:HE3	2.18	0.43
2:B:70:MET:SD	2:B:107:ARG:CB	3.00	0.43
2:B:124:GLN:O	2:B:127:LEU:N	2.43	0.43
2:B:474:VAL:C	2:B:476:ARG:H	2.27	0.43
2:B:493:LEU:C	2:B:495:ASP:N	2.74	0.43
2:B:589:SER:O	2:B:592:TYR:N	2.52	0.43
4:M:44:ASP:O	4:M:46:SER:N	2.51	0.43
4:M:219:LEU:HD12	4:M:440:ILE:HG12	1.98	0.43
4:M:224:VAL:C	4:M:479:PHE:HA	2.44	0.43
4:M:269:ILE:N	4:M:302:TYR:CZ	2.86	0.43
4:M:353:VAL:O	4:M:401:LYS:CB	2.67	0.43
1:A:186:PHE:CZ	1:A:224:GLU:CD	2.96	0.43
1:A:370:LYS:O	1:A:374:LEU:HD12	2.17	0.43
1:A:461:CYS:SG	1:A:469:LEU:HB3	2.58	0.43
1:A:536:MET:SD	1:A:555:LEU:HD21	2.59	0.43
2:B:44:PRO:HG3	2:B:77:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:397:GLN:O	2:B:401:THR:HG23	2.18	0.43
2:B:451:MET:CG	2:B:489:ILE:HG12	2.23	0.43
2:B:479:VAL:HG12	2:B:486:HIS:CE1	2.24	0.43
2:B:513:TRP:HB2	2:B:551:LEU:HD11	2.01	0.43
2:B:564:LYS:NZ	2:B:621:GLY:O	2.51	0.43
4:M:262:THR:HG23	4:M:265:ASN:H	1.68	0.43
4:M:310:VAL:O	4:M:314:GLY:N	2.51	0.43
4:M:325:LEU:HD23	4:M:325:LEU:C	2.44	0.43
1:A:395:PHE:CZ	1:A:420:ILE:HD13	2.54	0.43
1:A:573:GLU:O	1:A:574:ILE:O	2.29	0.43
1:A:594:PHE:CE2	2:B:477:MET:CE	3.00	0.43
2:B:17:VAL:HG23	2:B:36:THR:OG1	2.19	0.43
2:B:73:ASP:HA	4:M:24:ALA:CB	2.49	0.43
2:B:105:LEU:O	2:B:108:PHE:N	2.52	0.43
2:B:143:SER:CB	2:B:179:LYS:CB	2.67	0.43
2:B:143:SER:O	2:B:179:LYS:HB3	2.19	0.43
2:B:158:VAL:HG12	2:B:177:ILE:HD11	2.01	0.43
2:B:181:TYR:HD2	2:B:218:CYS:HA	1.84	0.43
2:B:269:SER:C	2:B:270:SER:O	2.58	0.43
2:B:403:ILE:HG23	2:B:439:CYS:SG	2.58	0.43
2:B:563:PHE:CA	2:B:566:ALA:HB3	2.45	0.43
3:S:58:LEU:O	3:S:59:LEU:C	2.56	0.43
4:M:66:PHE:HB3	4:M:77:LEU:CD1	2.48	0.43
4:M:217:ASP:N	4:M:472:TYR:OH	2.52	0.43
4:M:242:GLY:HA3	4:M:444:ALA:CB	2.47	0.43
1:A:264:SER:HB2	1:A:271:ARG:HG3	2.00	0.42
1:A:356:ILE:O	1:A:359:LEU:N	2.46	0.42
1:A:500:SER:HB3	1:A:535:ILE:HD13	2.01	0.42
1:A:571:ARG:O	1:A:574:ILE:N	2.47	0.42
2:B:107:ARG:NH2	4:M:126:ASN:CA	2.79	0.42
2:B:112:ASP:OD2	2:B:115:LEU:HD23	2.18	0.42
2:B:141:ALA:C	2:B:143:SER:N	2.72	0.42
2:B:158:VAL:CG1	2:B:173:VAL:CG1	2.92	0.42
2:B:316:THR:C	2:B:318:ILE:H	2.25	0.42
2:B:396:ILE:HG22	2:B:435:SER:CB	2.45	0.42
2:B:458:MET:O	2:B:459:GLU:C	2.60	0.42
2:B:537:PHE:CZ	2:B:545:ARG:HD3	2.54	0.42
2:B:564:LYS:HG3	2:B:568:VAL:CG2	2.42	0.42
3:S:16:LEU:HD12	3:S:17:VAL:N	2.34	0.42
3:S:144:THR:O	3:S:145:ASN:C	2.60	0.42
4:M:234:ARG:O	4:M:236:LEU:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:234:ARG:O	4:M:235:LEU:C	2.58	0.42
4:M:455:VAL:O	4:M:455:VAL:HG12	2.19	0.42
1:A:140:VAL:HG22	1:A:177:ILE:CG1	2.47	0.42
1:A:192:TYR:CD2	1:A:192:TYR:O	2.72	0.42
1:A:356:ILE:CD1	1:A:374:LEU:HD23	2.49	0.42
1:A:395:PHE:CZ	1:A:428:MET:CB	3.02	0.42
1:A:581:LEU:CB	1:A:607:LEU:HD13	2.41	0.42
2:B:43:ASN:CB	2:B:44:PRO:CD	2.95	0.42
2:B:174:ALA:C	2:B:214:ALA:HB2	2.44	0.42
2:B:343:LEU:HG	2:B:363:ILE:HD11	2.00	0.42
4:M:103:TYR:HB2	4:M:104:PHE:CD1	2.54	0.42
4:M:246:VAL:HB	4:M:297:PHE:CE2	2.53	0.42
4:M:265:ASN:O	4:M:266:ASP:C	2.56	0.42
4:M:443:SER:HB3	4:M:447:ILE:H	1.80	0.42
4:M:479:PHE:HD1	4:M:479:PHE:N	1.98	0.42
1:A:85:ALA:C	1:A:87:CYS:N	2.77	0.42
1:A:192:TYR:HD2	1:A:195:ALA:H	1.68	0.42
1:A:247:ILE:HG21	1:A:252:ILE:HB	2.00	0.42
1:A:304:LEU:HD12	1:A:312:ALA:HB2	2.01	0.42
1:A:372:ILE:O	1:A:375:VAL:HB	2.19	0.42
1:A:588:LEU:C	1:A:590:TYR:H	2.27	0.42
1:A:632:PHE:O	1:A:633:PHE:C	2.60	0.42
2:B:102:HIS:ND1	2:B:137:PHE:C	2.78	0.42
2:B:315:PRO:HG3	2:B:350:THR:CG2	2.48	0.42
3:S:8:PHE:CZ	3:S:84:TYR:CB	2.97	0.42
3:S:135:ILE:C	3:S:141:VAL:HG22	2.44	0.42
4:M:219:LEU:HG	4:M:439:TYR:O	2.19	0.42
4:M:262:THR:HG22	4:M:264:GLY:H	1.81	0.42
1:A:63:ASP:O	1:A:67:LYS:HG3	2.19	0.42
1:A:327:ASP:OD1	3:S:50:PHE:HE2	2.02	0.42
2:B:22:ALA:HA	2:B:32:GLU:HB2	1.75	0.42
2:B:200:MET:HE1	2:B:229:HIS:CA	2.49	0.42
2:B:343:LEU:CG	2:B:363:ILE:CD1	2.97	0.42
2:B:343:LEU:HD11	2:B:362:ALA:HB3	2.00	0.42
2:B:464:SER:O	2:B:468:LEU:HG	2.19	0.42
2:B:513:TRP:CB	2:B:551:LEU:HD21	2.50	0.42
2:B:537:PHE:HD1	2:B:538:SER:N	2.17	0.42
2:B:580:TYR:CB	2:B:582:ASP:OD2	2.64	0.42
3:S:9:ASN:ND2	3:S:118:GLU:OE1	2.53	0.42
3:S:163:THR:C	3:S:163:THR:CB	2.81	0.42
4:M:69:ILE:HD11	4:M:94:GLU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:74:TYR:HB2	4:M:114:ILE:HD13	2.00	0.42
4:M:213:GLU:H	4:M:249:TYR:HB2	1.84	0.42
4:M:290:PHE:CE2	4:M:297:PHE:CE2	3.04	0.42
4:M:306:LEU:CG	4:M:317:MET:HE1	2.44	0.42
1:A:231:GLN:N	1:A:232:PRO:HD2	2.35	0.42
1:A:338:PHE:HE1	1:A:352:PHE:CE2	2.38	0.42
1:A:412:LYS:O	1:A:414:LYS:N	2.51	0.42
1:A:447:PHE:CD2	1:A:484:VAL:HG13	2.54	0.42
1:A:629:LEU:O	1:A:631:SER:N	2.50	0.42
2:B:9:ALA:HB1	4:M:14:LEU:CG	2.45	0.42
2:B:108:PHE:HE1	2:B:112:ASP:HB3	1.84	0.42
2:B:253:ILE:HD11	2:B:324:ALA:CA	2.50	0.42
2:B:274:PRO:CG	2:B:295:ASN:HB3	2.37	0.42
2:B:343:LEU:CD2	2:B:366:LEU:CD1	2.81	0.42
2:B:418:TYR:CE1	2:B:419:VAL:HA	2.54	0.42
2:B:457:HIS:ND1	2:B:461:HIS:NE2	2.67	0.42
2:B:458:MET:HG3	2:B:471:TYR:CD1	2.55	0.42
4:M:74:TYR:CE2	4:M:109:LEU:HB2	2.55	0.42
4:M:323:MET:CE	4:M:342:LEU:CB	2.93	0.42
4:M:327:PHE:CE1	4:M:336:ASP:CG	2.96	0.42
4:M:360:LEU:CD1	4:M:433:VAL:HG23	2.50	0.42
1:A:88:ASN:ND2	1:A:120:ILE:HG21	2.34	0.42
1:A:176:TYR:CD1	3:S:142:ILE:HD11	2.54	0.42
1:A:368:ARG:NH1	1:A:419:ILE:O	2.53	0.42
2:B:127:LEU:HD23	2:B:135:ARG:O	2.20	0.42
2:B:374:PHE:HE2	2:B:398:ILE:CG2	2.26	0.42
2:B:405:GLU:HA	2:B:446:TRP:CD1	2.55	0.42
2:B:458:MET:HA	2:B:463:LEU:CD1	2.47	0.42
2:B:513:TRP:N	2:B:551:LEU:HD11	2.33	0.42
2:B:513:TRP:CD1	2:B:517:GLU:HG3	2.54	0.42
2:B:588:ILE:HD13	2:B:618:PHE:CE1	2.54	0.42
4:M:242:GLY:C	4:M:474:THR:HG21	2.45	0.42
4:M:462:LYS:HD2	4:M:462:LYS:HA	2.01	0.42
1:A:71:VAL:HG11	1:A:105:VAL:CG1	2.50	0.42
1:A:353:ASP:O	1:A:356:ILE:HB	2.19	0.42
1:A:413:SER:HB3	1:A:415:ARG:O	2.19	0.42
1:A:528:ASN:C	1:A:530:ASN:N	2.68	0.42
2:B:119:SER:O	2:B:123:LEU:CG	2.56	0.42
2:B:159:LYS:HA	2:B:195:ILE:HD13	2.01	0.42
2:B:429:VAL:HG11	2:B:463:LEU:HD22	2.00	0.42
2:B:510:GLY:O	2:B:513:TRP:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:567:GLN:N	2:B:574:ASN:ND2	2.67	0.42
3:S:53:THR:CG2	3:S:69:ASN:HB2	2.49	0.42
3:S:89:VAL:HG21	3:S:98:ILE:HG13	2.00	0.42
4:M:222:PHE:CB	4:M:479:PHE:CE2	3.03	0.42
4:M:435:LEU:HD22	4:M:437:TYR:OH	2.20	0.42
1:A:95:MET:HB3	1:A:127:LEU:HD23	2.01	0.42
1:A:225:LEU:CD1	1:A:233:PHE:CE1	2.92	0.42
1:A:416:ILE:HG22	1:A:417:PRO:O	2.20	0.42
2:B:13:ASP:HB3	2:B:35:TYR:HE2	1.85	0.42
2:B:158:VAL:HA	2:B:173:VAL:HG13	2.01	0.42
2:B:178:ILE:HG22	2:B:179:LYS:N	2.34	0.42
2:B:196:LEU:CA	2:B:215:TYR:OH	2.66	0.42
2:B:405:GLU:OE2	2:B:445:SER:HB2	2.20	0.42
4:M:220:GLU:OE2	4:M:350:VAL:HG13	2.19	0.42
4:M:316:ARG:O	4:M:318:ASN:N	2.53	0.42
1:A:357:ILE:O	1:A:358:ARG:C	2.57	0.42
1:A:466:ASP:OD1	1:A:468:SER:N	2.48	0.42
1:A:546:SER:O	1:A:550:VAL:HG23	2.18	0.42
2:B:38:TYR:CZ	2:B:43:ASN:CA	2.98	0.42
2:B:40:GLN:OE1	2:B:40:GLN:HA	2.20	0.42
2:B:176:ALA:O	2:B:179:LYS:N	2.52	0.42
2:B:486:HIS:NE2	2:B:518:ILE:CG1	2.83	0.42
3:S:5:VAL:CG1	3:S:87:PHE:CE2	3.03	0.42
3:S:5:VAL:HG22	3:S:87:PHE:CD2	2.54	0.42
4:M:103:TYR:N	4:M:103:TYR:HD1	2.18	0.42
4:M:215:TYR:CG	4:M:467:TYR:O	2.70	0.42
4:M:292:PRO:HA	4:M:293:PRO:HD3	1.55	0.42
4:M:379:LEU:CD2	4:M:411:LEU:CD2	2.98	0.42
1:A:103:LYS:O	1:A:107:TYR:CG	2.71	0.42
1:A:140:VAL:HG22	1:A:177:ILE:CD1	2.50	0.42
1:A:512:LEU:HD13	1:A:543:TYR:CE1	2.55	0.42
2:B:14:THR:OG1	2:B:40:GLN:CD	2.63	0.42
2:B:31:GLY:HA2	2:B:65:ARG:HH12	1.85	0.42
2:B:83:PHE:O	2:B:86:VAL:HB	2.19	0.42
2:B:172:GLU:O	2:B:175:LEU:N	2.53	0.42
2:B:262:LYS:O	2:B:264:THR:N	2.53	0.42
2:B:307:ASN:HD21	2:B:338:LYS:HB2	1.85	0.42
2:B:366:LEU:O	2:B:368:ILE:N	2.46	0.42
2:B:393:ILE:HG23	2:B:431:MET:HB2	2.01	0.42
2:B:403:ILE:HB	2:B:408:VAL:CG2	2.49	0.42
2:B:405:GLU:C	2:B:407:ASN:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:412:PHE:HB3	2:B:453:TRP:HD1	1.84	0.42
2:B:433:VAL:HG22	2:B:471:TYR:CE1	2.53	0.42
2:B:497:LEU:HB2	2:B:511:ILE:HD13	2.02	0.42
2:B:512:VAL:HB	2:B:551:LEU:HD12	2.02	0.42
2:B:556:LEU:CB	2:B:588:ILE:CD1	2.74	0.42
2:B:562:ASN:ND2	2:B:580:TYR:CD2	2.88	0.42
4:M:218:LEU:HD12	4:M:218:LEU:H	1.83	0.42
4:M:290:PHE:CZ	4:M:293:PRO:HG3	2.55	0.42
4:M:356:LEU:CD2	4:M:356:LEU:C	2.91	0.42
4:M:405:THR:HG23	4:M:406:GLY:N	2.35	0.42
1:A:233:PHE:O	1:A:235:GLN:N	2.36	0.41
1:A:264:SER:HB2	1:A:271:ARG:CD	2.49	0.41
1:A:356:ILE:HG12	1:A:374:LEU:CD2	2.50	0.41
1:A:513:ARG:O	1:A:516:ILE:HB	2.19	0.41
2:B:20:ARG:CZ	4:M:118:TYR:CB	2.75	0.41
2:B:212:VAL:O	2:B:251:LEU:HD22	2.20	0.41
2:B:475:ILE:HG22	2:B:514:LEU:HD21	2.02	0.41
2:B:560:ILE:HA	2:B:563:PHE:CB	2.38	0.41
2:B:566:ALA:C	2:B:574:ASN:HD22	2.28	0.41
3:S:85:PHE:CZ	3:S:109:LEU:HD23	2.55	0.41
4:M:245:ASP:HB3	4:M:472:TYR:CE1	2.54	0.41
4:M:304:VAL:HG11	4:M:444:ALA:O	2.19	0.41
1:A:92:LEU:CD1	1:A:123:LEU:HD12	2.50	0.41
1:A:95:MET:SD	1:A:107:TYR:CE1	3.13	0.41
1:A:405:THR:C	2:B:7:ARG:CZ	2.93	0.41
2:B:90:ILE:HA	2:B:101:ILE:CD1	2.50	0.41
2:B:108:PHE:CE1	2:B:112:ASP:HB3	2.55	0.41
2:B:146:LYS:C	2:B:147:MET:HG2	2.44	0.41
2:B:151:ALA:N	2:B:152:PRO:CD	2.82	0.41
2:B:253:ILE:HG13	2:B:324:ALA:CB	2.50	0.41
2:B:268:LYS:O	2:B:273:SER:HB3	2.20	0.41
2:B:275:ARG:H	2:B:294:VAL:CG1	2.27	0.41
2:B:395:LYS:O	2:B:398:ILE:HB	2.20	0.41
2:B:424:PHE:C	2:B:425:PRO:O	2.59	0.41
3:S:53:THR:CG2	3:S:68:VAL:CA	2.90	0.41
4:M:79:SER:C	4:M:80:THR:HG23	2.45	0.41
4:M:245:ASP:OD1	4:M:298:ARG:N	2.53	0.41
4:M:424:PHE:CE1	4:M:427:LYS:O	2.73	0.41
1:A:304:LEU:HA	1:A:308:ASP:HB2	2.02	0.41
1:A:371:ALA:O	1:A:374:LEU:HB2	2.20	0.41
1:A:429:VAL:HG11	1:A:469:LEU:HD11	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:43:ASN:HA	2:B:44:PRO:HD3	1.68	0.41
2:B:120:ILE:HG23	2:B:142:LEU:CD2	2.50	0.41
2:B:332:LEU:HG	2:B:332:LEU:O	2.19	0.41
2:B:347:VAL:CB	2:B:359:LEU:HB3	2.42	0.41
2:B:373:LEU:O	2:B:375:LEU:N	2.52	0.41
2:B:486:HIS:O	2:B:489:ILE:N	2.52	0.41
2:B:565:GLN:CD	2:B:581:TYR:OH	2.59	0.41
2:B:610:ARG:O	2:B:614:ILE:HG13	2.21	0.41
3:S:7:ILE:HG23	3:S:85:PHE:CD2	2.55	0.41
4:M:5:PHE:HA	4:M:78:ALA:HA	2.02	0.41
4:M:243:ILE:C	4:M:472:TYR:CD2	2.94	0.41
1:A:394:GLN:O	1:A:397:ASP:N	2.52	0.41
1:A:448:GLU:HB2	1:A:487:MET:SD	2.60	0.41
2:B:14:THR:O	2:B:18:ILE:HG12	2.17	0.41
2:B:90:ILE:O	2:B:98:LYS:HE2	2.21	0.41
2:B:178:ILE:C	2:B:180:LEU:N	2.76	0.41
2:B:219:TYR:CE2	2:B:226:LEU:HA	2.49	0.41
2:B:227:HIS:O	2:B:228:GLY:C	2.64	0.41
2:B:295:ASN:O	2:B:300:ASP:HB3	1.99	0.41
2:B:433:VAL:C	2:B:435:SER:N	2.78	0.41
3:S:87:PHE:CZ	3:S:102:ILE:HG12	2.55	0.41
4:M:16:PHE:HD1	4:M:118:TYR:CD2	2.37	0.41
4:M:52:ASP:O	4:M:53:HIS:HB3	2.21	0.41
1:A:189:PHE:O	1:A:191:GLN:N	2.53	0.41
1:A:555:LEU:CD1	1:A:581:LEU:HD11	2.48	0.41
1:A:556:VAL:CG2	1:A:603:VAL:HG22	2.30	0.41
2:B:20:ARG:HH12	4:M:118:TYR:C	2.25	0.41
2:B:116:THR:C	2:B:120:ILE:HG12	2.44	0.41
2:B:513:TRP:CA	2:B:551:LEU:HD11	2.47	0.41
3:S:4:ALA:HB1	3:S:19:PHE:CE1	2.55	0.41
3:S:16:LEU:HD13	3:S:129:GLU:CG	2.50	0.41
3:S:51:LEU:HB2	3:S:77:TYR:HE1	1.84	0.41
3:S:164:ASP:O	3:S:165:SER:C	2.49	0.41
4:M:323:MET:HG3	4:M:342:LEU:HG	2.01	0.41
4:M:341:SER:CB	4:M:343:ASN:HD21	2.24	0.41
4:M:374:TYR:O	4:M:390:ILE:HG23	2.19	0.41
4:M:374:TYR:H	4:M:390:ILE:HG23	1.84	0.41
4:M:434:SER:HB3	4:M:478:ASN:OD1	2.20	0.41
1:A:132:LEU:O	1:A:134:TYR:N	2.54	0.41
1:A:222:ILE:HG23	1:A:233:PHE:CD1	2.55	0.41
1:A:516:ILE:HD13	1:A:551:LEU:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:ASN:O	1:A:534:LYS:N	2.54	0.41
1:A:621:LEU:CD1	1:A:621:LEU:C	2.93	0.41
2:B:34:SER:HG	2:B:35:TYR:N	2.19	0.41
2:B:115:LEU:HA	2:B:115:LEU:HD13	1.85	0.41
2:B:123:LEU:HB2	2:B:142:LEU:HD21	2.02	0.41
2:B:330:SER:O	2:B:331:PRO:C	2.62	0.41
2:B:374:PHE:HB3	2:B:402:LEU:HD23	1.02	0.41
2:B:430:ILE:HG12	2:B:467:VAL:N	2.35	0.41
2:B:537:PHE:CZ	2:B:545:ARG:HB3	2.50	0.41
4:M:220:GLU:CG	4:M:222:PHE:CE1	3.04	0.41
4:M:222:PHE:CZ	4:M:240:ILE:HD13	2.56	0.41
4:M:349:LYS:C	4:M:442:GLN:HE21	2.29	0.41
4:M:372:ILE:HD12	4:M:428:VAL:HG22	2.03	0.41
1:A:326:GLN:HA	1:A:331:ARG:NH2	2.36	0.41
1:A:342:GLY:C	1:A:344:ILE:N	2.69	0.41
1:A:373:GLU:HG2	1:A:427:LYS:CE	2.51	0.41
1:A:381:GLU:O	1:A:383:ASN:N	2.48	0.41
1:A:451:ASN:HD21	1:A:487:MET:HB3	1.85	0.41
2:B:75:ASP:OD1	4:M:19:LEU:HD21	2.21	0.41
2:B:116:THR:HG21	2:B:147:MET:HG3	2.03	0.41
2:B:179:LYS:HE3	4:M:131:ALA:O	2.20	0.41
2:B:241:ASP:O	2:B:243:TRP:N	2.50	0.41
2:B:472:VAL:CG2	2:B:511:ILE:HG13	2.50	0.41
2:B:596:LEU:HD22	2:B:615:SER:CB	2.50	0.41
3:S:7:ILE:HD13	3:S:16:LEU:HB3	2.01	0.41
3:S:87:PHE:CD1	3:S:87:PHE:N	2.88	0.41
4:M:103:TYR:O	4:M:104:PHE:HB2	2.21	0.41
4:M:212:ASN:O	4:M:465:LYS:CB	2.65	0.41
1:A:182:ILE:HG22	1:A:221:VAL:HG23	2.00	0.41
1:A:451:ASN:OD1	1:A:480:LEU:CD1	2.68	0.41
1:A:529:GLY:CA	1:A:562:TRP:HZ2	2.34	0.41
2:B:136:CYS:SG	2:B:168:MET:O	2.78	0.41
2:B:267:ASP:CA	2:B:289:PRO:HG3	2.50	0.41
2:B:301:LEU:O	2:B:305:SER:CB	2.68	0.41
2:B:367:SER:OG	2:B:401:THR:CB	2.68	0.41
2:B:508:ARG:HD3	2:B:540:GLU:OE2	2.21	0.41
2:B:513:TRP:HA	2:B:551:LEU:CG	2.50	0.41
2:B:577:ASN:OD1	2:B:577:ASN:N	2.53	0.41
2:B:588:ILE:O	2:B:591:MET:HB2	2.21	0.41
2:B:589:SER:OG	2:B:618:PHE:CZ	2.74	0.41
3:S:137:GLN:O	3:S:140:MET:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:103:TYR:CD1	4:M:103:TYR:N	2.89	0.41
4:M:372:ILE:HD11	4:M:428:VAL:HG13	2.03	0.41
4:M:386:PHE:HB3	4:M:397:TRP:HD1	1.84	0.41
1:A:182:ILE:HD13	1:A:218:ALA:HB2	2.02	0.41
1:A:239:LEU:O	1:A:242:GLU:C	2.57	0.41
1:A:300:LYS:C	1:A:302:ASN:H	2.22	0.41
1:A:349:ILE:O	1:A:352:PHE:N	2.48	0.41
1:A:461:CYS:SG	1:A:464:ILE:CG2	3.09	0.41
1:A:516:ILE:CD1	1:A:551:LEU:HB2	2.51	0.41
1:A:530:ASN:ND2	1:A:571:ARG:NH2	2.69	0.41
2:B:56:SER:O	2:B:57:ARG:O	2.35	0.41
2:B:83:PHE:HZ	2:B:105:LEU:HG	1.85	0.41
2:B:120:ILE:O	2:B:123:LEU:HB2	2.21	0.41
2:B:166:SER:O	2:B:170:ARG:HG3	2.21	0.41
2:B:177:ILE:HD11	2:B:195:ILE:CG2	2.51	0.41
2:B:181:TYR:HB3	2:B:218:CYS:SG	2.60	0.41
2:B:196:LEU:HD13	2:B:215:TYR:CE1	2.56	0.41
2:B:302:PHE:CZ	2:B:306:LEU:HD11	2.56	0.41
2:B:346:THR:HA	2:B:349:MET:CE	2.51	0.41
2:B:360:LEU:HD21	2:B:395:LYS:HE2	2.03	0.41
2:B:524:LYS:HG2	2:B:524:LYS:O	2.21	0.41
2:B:565:GLN:HB3	2:B:581:TYR:OH	2.21	0.41
3:S:39:ILE:HD11	3:S:77:TYR:CG	2.55	0.41
3:S:57:LEU:C	3:S:67:GLU:O	2.63	0.41
3:S:87:PHE:CE1	3:S:102:ILE:HG23	2.55	0.41
3:S:135:ILE:O	3:S:140:MET:O	2.38	0.41
4:M:78:ALA:HB2	4:M:93:LEU:CG	2.50	0.41
4:M:96:ILE:O	4:M:99:ILE:HB	2.21	0.41
4:M:218:LEU:N	4:M:218:LEU:CD1	2.82	0.41
4:M:219:LEU:HB3	4:M:472:TYR:HB2	2.02	0.41
4:M:221:THR:CG2	4:M:223:HIS:CE1	3.04	0.41
4:M:224:VAL:O	4:M:479:PHE:HA	2.20	0.41
4:M:240:ILE:O	4:M:444:ALA:HB1	2.21	0.41
4:M:317:MET:SD	4:M:321:GLY:HA3	2.61	0.41
4:M:319:SER:OG	4:M:346:ASN:N	2.45	0.41
4:M:356:LEU:CD2	4:M:356:LEU:O	2.68	0.41
4:M:433:VAL:O	4:M:435:LEU:CD1	2.68	0.41
1:A:254:ILE:HD13	3:S:96:LEU:CB	2.46	0.41
1:A:420:ILE:HG23	1:A:424:TYR:CB	2.47	0.41
1:A:420:ILE:C	1:A:421:PRO:O	2.62	0.41
1:A:540:ILE:HG23	1:A:541:SER:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:35:TYR:O	2:B:42:ILE:CG1	2.69	0.41
2:B:100:LEU:CD2	4:M:123:LEU:HD21	2.51	0.41
2:B:107:ARG:NH1	4:M:20:LEU:CG	2.66	0.41
2:B:210:CYS:O	2:B:213:LEU:N	2.54	0.41
2:B:252:LEU:CG	2:B:302:PHE:CD1	2.99	0.41
2:B:313:SER:HB3	4:M:269:ILE:C	2.45	0.41
2:B:325:LEU:HD22	2:B:339:PHE:CD1	2.56	0.41
2:B:359:LEU:HA	2:B:359:LEU:HD13	1.85	0.41
2:B:363:ILE:HB	2:B:398:ILE:HD11	2.01	0.41
3:S:135:ILE:O	3:S:141:VAL:CB	2.69	0.41
4:M:96:ILE:HD13	4:M:124:ILE:HG22	2.03	0.41
4:M:243:ILE:CB	4:M:472:TYR:HB3	2.51	0.41
4:M:270:PRO:HA	4:M:302:TYR:CD2	2.56	0.41
4:M:275:CYS:HB3	4:M:290:PHE:CE1	2.56	0.41
1:A:101:GLN:NE2	3:S:167:ILE:HD11	2.31	0.40
1:A:433:ILE:HG23	1:A:476:GLN:CG	2.50	0.40
1:A:496:ILE:O	1:A:499:ILE:HB	2.21	0.40
2:B:20:ARG:NH2	4:M:118:TYR:CD1	2.78	0.40
2:B:86:VAL:O	2:B:89:ASN:HB2	2.20	0.40
2:B:219:TYR:HD1	2:B:222:HIS:C	2.29	0.40
2:B:279:LEU:CG	2:B:288:TYR:CD2	2.94	0.40
2:B:396:ILE:CG2	2:B:432:ALA:CA	2.45	0.40
2:B:477:MET:O	2:B:480:GLN:CB	2.63	0.40
2:B:486:HIS:CE1	2:B:518:ILE:CB	3.04	0.40
4:M:71:LYS:CG	4:M:74:TYR:CZ	3.05	0.40
4:M:223:HIS:HD2	4:M:478:ASN:HB2	1.86	0.40
4:M:351:SER:HB2	4:M:441:GLY:HA3	2.01	0.40
4:M:374:TYR:HE1	4:M:393:GLY:C	2.28	0.40
1:A:128:LEU:HD22	1:A:146:ALA:HB1	2.02	0.40
1:A:249:ASN:OD1	1:A:251:TRP:N	2.54	0.40
1:A:611:LEU:HD23	1:A:611:LEU:C	2.46	0.40
2:B:204:ASP:HA	2:B:205:PRO:HD3	1.96	0.40
2:B:220:ALA:HA	2:B:258:GLN:CG	2.35	0.40
2:B:309:LEU:CB	2:B:317:VAL:HG12	2.25	0.40
2:B:347:VAL:O	2:B:349:MET:N	2.54	0.40
2:B:433:VAL:HG11	2:B:470:ALA:C	2.41	0.40
3:S:43:ASN:HB3	3:S:46:PHE:CD2	2.56	0.40
4:M:212:ASN:ND2	4:M:250:LEU:HA	2.36	0.40
4:M:222:PHE:CZ	4:M:439:TYR:HE2	2.35	0.40
4:M:302:TYR:HB3	4:M:447:ILE:HD13	2.03	0.40
4:M:304:VAL:HG21	4:M:309:GLN:CD	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:360:LEU:CD1	4:M:433:VAL:CB	2.98	0.40
4:M:450:GLU:O	4:M:451:ALA:HB2	2.22	0.40
1:A:97:SER:O	1:A:98:ASN:C	2.46	0.40
1:A:413:SER:C	1:A:415:ARG:N	2.71	0.40
1:A:429:VAL:CG1	1:A:469:LEU:CD1	2.99	0.40
1:A:461:CYS:O	1:A:462:GLN:O	2.39	0.40
1:A:533:ILE:HG21	1:A:559:PHE:CZ	2.56	0.40
1:A:609:LEU:CG	1:A:628:VAL:HB	2.49	0.40
2:B:43:ASN:CB	2:B:44:PRO:HD2	2.50	0.40
2:B:127:LEU:CD2	2:B:139:LEU:HB2	2.51	0.40
2:B:143:SER:OG	2:B:179:LYS:CD	2.31	0.40
2:B:225:LEU:O	2:B:227:HIS:N	2.55	0.40
2:B:230:PHE:CG	2:B:298:ASP:HB3	2.52	0.40
2:B:299:LEU:CD1	2:B:299:LEU:C	2.92	0.40
2:B:326:TYR:CE2	2:B:369:LEU:HB2	2.57	0.40
2:B:356:LYS:O	2:B:360:LEU:HG	2.22	0.40
2:B:497:LEU:CD2	2:B:511:ILE:CG2	2.99	0.40
2:B:562:ASN:CG	2:B:580:TYR:HD2	2.28	0.40
4:M:20:LEU:HD21	4:M:126:ASN:HA	2.03	0.40
4:M:100:LEU:HD21	4:M:121:ILE:HA	2.03	0.40
4:M:230:LYS:C	4:M:232:HIS:H	2.27	0.40
4:M:443:SER:CA	4:M:447:ILE:CG1	2.99	0.40
1:A:241:TYR:CE2	1:A:277:LYS:CB	3.05	0.40
1:A:244:LEU:CD2	1:A:277:LYS:HG3	2.51	0.40
1:A:580:GLU:O	1:A:583:GLU:N	2.54	0.40
1:A:614:LEU:HD21	1:A:621:LEU:HG	2.03	0.40
2:B:12:LEU:HB3	4:M:13:LYS:CD	2.46	0.40
2:B:216:LYS:HD3	2:B:251:LEU:CA	2.47	0.40
2:B:223:LEU:HD21	2:B:258:GLN:CB	2.50	0.40
2:B:309:LEU:CD1	2:B:317:VAL:HG11	2.49	0.40
2:B:392:SER:O	2:B:396:ILE:HG13	2.21	0.40
3:S:37:GLU:O	3:S:40:SER:N	2.53	0.40
3:S:80:TYR:HE2	3:S:110:ASP:OD1	2.05	0.40
3:S:165:SER:O	3:S:166:LYS:C	2.62	0.40
4:M:45:SER:CB	4:M:75:TRP:CZ2	2.95	0.40
4:M:64:LYS:HE3	4:M:79:SER:HB2	2.02	0.40
1:A:193:PRO:O	1:A:196:LEU:HB3	2.21	0.40
1:A:488:ARG:CD	1:A:522:PHE:CZ	3.04	0.40
1:A:488:ARG:HG2	1:A:522:PHE:HE2	1.85	0.40
2:B:108:PHE:HE1	2:B:112:ASP:HB2	1.87	0.40
2:B:239:GLN:C	4:M:279:ASN:HA	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:249:ILE:O	2:B:253:ILE:HG13	2.21	0.40
2:B:256:CYS:C	2:B:258:GLN:H	2.28	0.40
2:B:478:LEU:O	2:B:480:GLN:N	2.53	0.40
2:B:549:LEU:HA	2:B:595:VAL:HG11	2.03	0.40
3:S:2:ILE:HG12	3:S:98:ILE:HD12	2.03	0.40
3:S:53:THR:O	3:S:69:ASN:OD1	2.40	0.40
3:S:80:TYR:CE2	3:S:110:ASP:OD1	2.75	0.40
3:S:110:ASP:O	3:S:114:THR:HA	2.21	0.40
4:M:47:SER:O	4:M:75:TRP:CH2	2.53	0.40
4:M:70:ASN:OD1	4:M:75:TRP:NE1	2.54	0.40
4:M:92:PHE:CZ	4:M:128:CYS:CB	2.91	0.40
4:M:389:SER:N	4:M:394:GLN:O	2.49	0.40
4:M:428:VAL:O	4:M:430:LEU:N	2.54	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%)	529 (92%)	32 (6%)	13 (2%)	5	28
2	B	619/809 (76%)	500 (81%)	72 (12%)	47 (8%)	1	10
3	S	166/194 (86%)	160 (96%)	4 (2%)	2 (1%)	10	44
4	M	391/483 (81%)	315 (81%)	51 (13%)	25 (6%)	1	12
All	All	1750/2450 (71%)	1504 (86%)	159 (9%)	87 (5%)	3	16

All (87) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	86	TRP
1	A	267	GLU

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Mol	Chain	Res	Type
1	A	278	ILE
1	A	305	GLU
1	A	306	GLU
1	A	449	TRP
1	A	566	PHE
2	B	26	ALA
2	B	70	MET
2	B	109	ALA
2	B	200	MET
2	B	242	SER
2	B	296	ASP
2	B	313	SER
2	B	436	LEU
2	B	523	PHE
2	B	558	TYR
2	B	560	ILE
2	B	561	ASP
2	B	564	LYS
2	B	565	GLN
2	B	568	VAL
3	S	72	ASP
3	S	164	ASP
4	M	51	LEU
4	M	84	LYS
4	M	104	PHE
4	M	106	LYS
4	M	280	ASP
4	M	306	LEU
4	M	405	THR
4	M	447	ILE
4	M	479	PHE
1	A	114	PHE
1	A	536	MET
2	B	182	ARG
2	B	215	TYR
2	B	228	GLY
2	B	232	ARG
2	B	259	TYR
2	B	274	PRO
2	B	347	VAL
2	B	353	GLN
2	B	372	THR

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Mol	Chain	Res	Type
2	B	374	PHE
2	B	379	LYS
2	B	399	LEU
2	B	406	SER
2	B	600	LYS
4	M	231	SER
4	M	279	ASN
4	M	316	ARG
4	M	321	GLY
4	M	429	ASP
1	A	116	LYS
1	A	174	ARG
1	A	279	LEU
2	B	36	THR
2	B	105	LEU
2	B	196	LEU
2	B	226	LEU
2	B	252	LEU
2	B	462	ASN
2	B	573	GLU
4	M	81	SER
4	M	356	LEU
4	M	363	ASN
4	M	463	ASN
4	M	470	ALA
2	B	75	ASP
2	B	177	ILE
2	B	194	ASP
2	B	199	LEU
2	B	231	ARG
2	B	535	GLN
4	M	44	ASP
4	M	263	MET
2	B	227	HIS
2	B	376	PRO
4	M	12	ASN
4	M	48	ASP
2	B	440	GLY
4	M	253	ASN
2	B	69	ILE
1	A	406	GLY
4	M	406	GLY

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Mol	Chain	Res	Type
2	B	518	ILE

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%)	527 (98%)	9 (2%)	53	69
2	B	566/738 (77%)	562 (99%)	4 (1%)	76	81
3	S	159/175 (91%)	156 (98%)	3 (2%)	50	67
4	M	360/441 (82%)	351 (98%)	9 (2%)	42	63
All	All	1621/2252 (72%)	1596 (98%)	25 (2%)	55	72

All (25) 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
1	A	292	TYR
1	A	418	ILE
1	A	484	VAL
1	A	509	PRO
2	B	115	LEU
2	B	418	TYR
2	B	518	ILE
2	B	592	TYR
3	S	8	PHE
3	S	38	LEU
3	S	113	PHE
4	M	6	TYR
4	M	118	TYR
4	M	214	LEU
4	M	250	LEU

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Mol	Chain	Res	Type
4	M	343	ASN
4	M	379	LEU
4	M	437	TYR
4	M	472	TYR
4	M	479	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (32) 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	634	ASN
2	B	40	GLN
2	B	41	ASN
2	B	43	ASN
2	B	46	GLN
2	B	222	HIS
2	B	229	HIS
2	B	258	GLN
2	B	304	GLN
2	B	327	GLN
2	B	333	GLN
2	B	364	HIS
2	B	404	ASN
2	B	441	GLN
2	B	449	HIS
2	B	461	HIS
2	B	486	HIS
2	B	574	ASN
3	S	41	GLN
3	S	61	ASN
3	S	64	ASN
3	S	70	ASN
3	S	126	GLN
4	M	53	HIS
4	M	70	ASN
4	M	265	ASN
4	M	343	ASN
4	M	346	ASN

5.3.3 RNA [i](#)

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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
4	M	33
3	S	11
1	A	9
2	B	6

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	S	68:VAL	C	69:ASN	N	1.67
1	A	244:LEU	C	245:VAL	N	1.20
1	A	277:LYS	C	278:ILE	N	1.20
1	A	464:ILE	C	465:SER	N	1.20
1	B	259:TYR	C	260:LEU	N	1.20
1	S	60:SER	C	61:ASN	N	1.20
1	S	62:GLU	C	63:ASN	N	1.20
1	S	144:THR	C	145:ASN	N	1.20

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	M	6:TYR	C	7:ILE	N	1.20
1	M	252:ASP	C	253:ASN	N	1.20
1	M	280:ASP	C	281:GLY	N	1.20
1	A	378:ILE	C	379:VAL	N	1.19
1	A	439:ASP	C	440:ASN	N	1.19
1	A	535:ILE	C	536:MET	N	1.19
1	B	184:GLY	C	185:LYS	N	1.19
1	B	334:MET	C	335:LYS	N	1.19
1	S	113:PHE	C	114:THR	N	1.19
1	M	23:THR	C	24:ALA	N	1.19
1	M	82:LYS	C	83:SER	N	1.19
1	M	288:ILE	C	289:THR	N	1.19
1	M	377:LYS	C	378:ILE	N	1.19
1	A	289:SER	C	290:VAL	N	1.18
1	A	508:LEU	C	509:PRO	N	1.18
1	S	6:LEU	C	7:ILE	N	1.18
1	S	22:PRO	C	23:VAL	N	1.18
1	S	114:THR	C	115:GLU	N	1.18
1	M	56:VAL	C	57:GLY	N	1.18
1	M	64:LYS	C	65:TYR	N	1.18
1	M	136:VAL	C	137:SER	N	1.18
1	M	379:LEU	C	380:ARG	N	1.18
1	A	507:GLN	C	508:LEU	N	1.17
1	S	70:ASN	C	71:GLU	N	1.17
1	M	62:VAL	C	63:TYR	N	1.17
1	M	70:ASN	C	71:LYS	N	1.17
1	M	403:THR	C	404:ALA	N	1.17
1	M	450:GLU	C	451:ALA	N	1.17
1	S	8:PHE	C	9:ASN	N	1.16
1	M	134:PRO	C	135:ASN	N	1.16
1	M	279:ASN	C	280:ASP	N	1.16
1	M	319:SER	C	320:ILE	N	1.16
1	M	352:GLN	C	353:VAL	N	1.16
1	M	453:ASP	C	454:ILE	N	1.16
1	M	106:LYS	C	107:ASP	N	1.15
1	B	581:TYR	C	582:ASP	N	1.14
1	M	20:LEU	C	21:GLY	N	1.14
1	M	52:ASP	C	53:HIS	N	1.14
1	M	61:GLU	C	62:VAL	N	1.14
1	M	351:SER	C	352:GLN	N	1.14
1	B	284:ASN	C	285:GLU	N	1.13
1	B	293:VAL	C	294:VAL	N	1.13

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	M	21:GLY	C	22:ALA	N	1.13
1	M	63:TYR	C	64:LYS	N	1.13
1	M	130:GLU	C	131:ALA	N	1.12
1	M	80:THR	C	81:SER	N	1.11
1	M	105:ASP	C	106:LYS	N	1.10
1	M	3:LEU	C	4:SER	N	1.08
1	M	81:SER	C	82:LYS	N	1.08
1	S	48:SER	C	49:SER	N	1.03
1	M	135:ASN	C	136:VAL	N	0.93

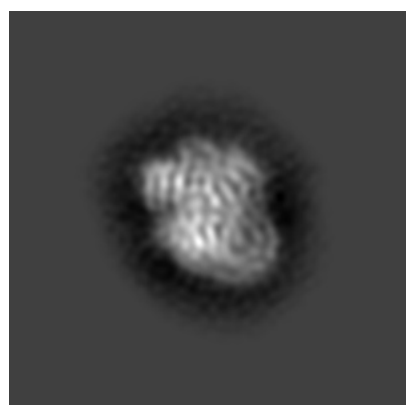
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-13187. These allow visual inspection of the internal detail of the map and identification of artifacts.

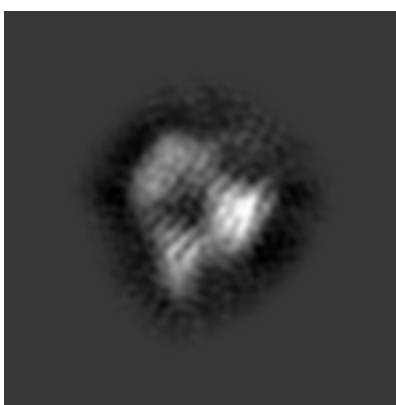
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



X



Y



Z

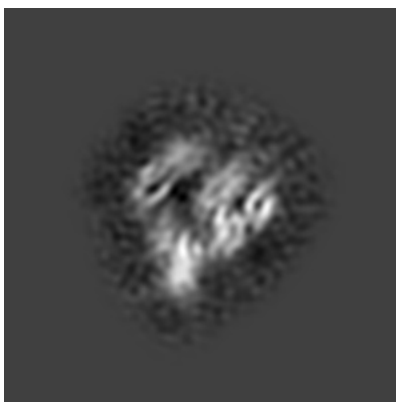
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 132



Y Index: 132



Z Index: 132

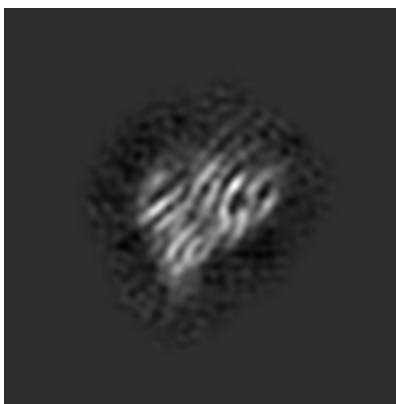
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 130



Y Index: 123

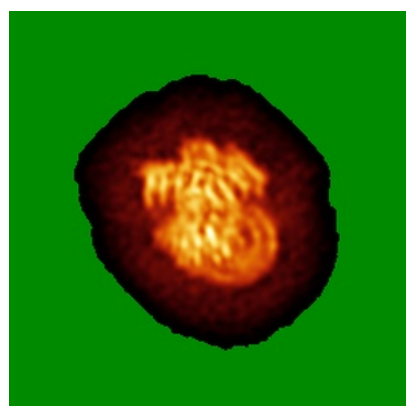


Z Index: 150

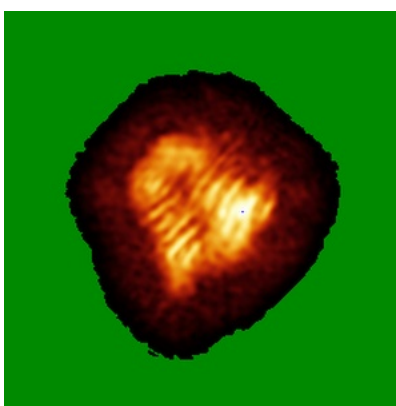
The images above show the largest variance slices of the map in three orthogonal directions.

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

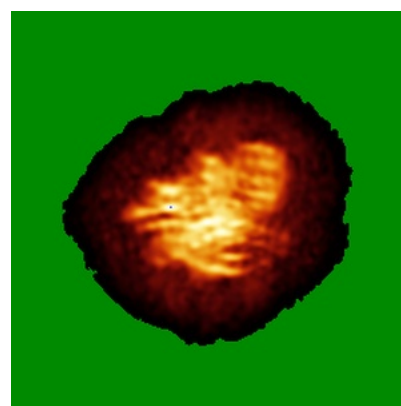
6.4.1 Primary map



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

This section was not generated.

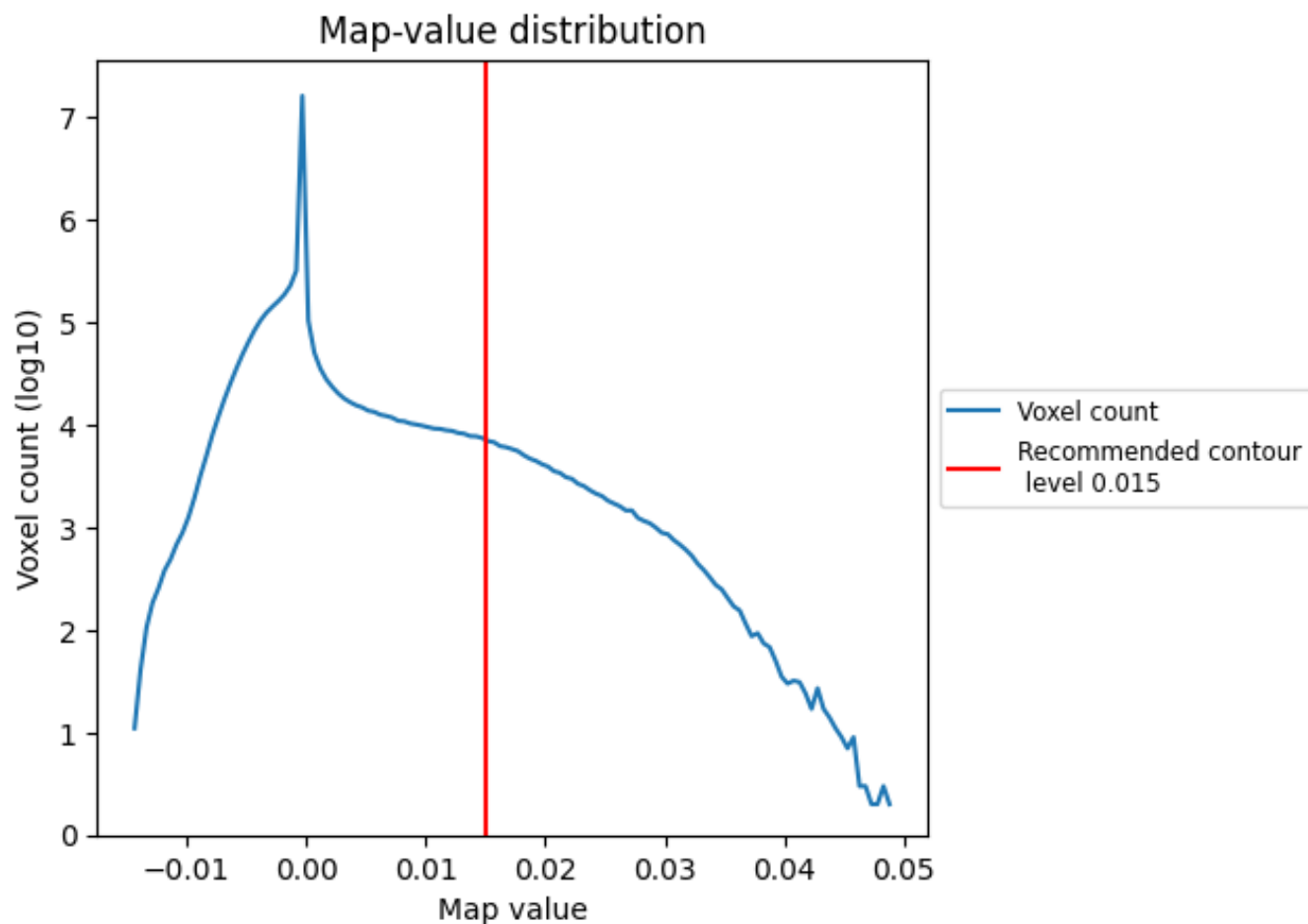
6.6 Mask visualisation

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

7 Map analysis [i](#)

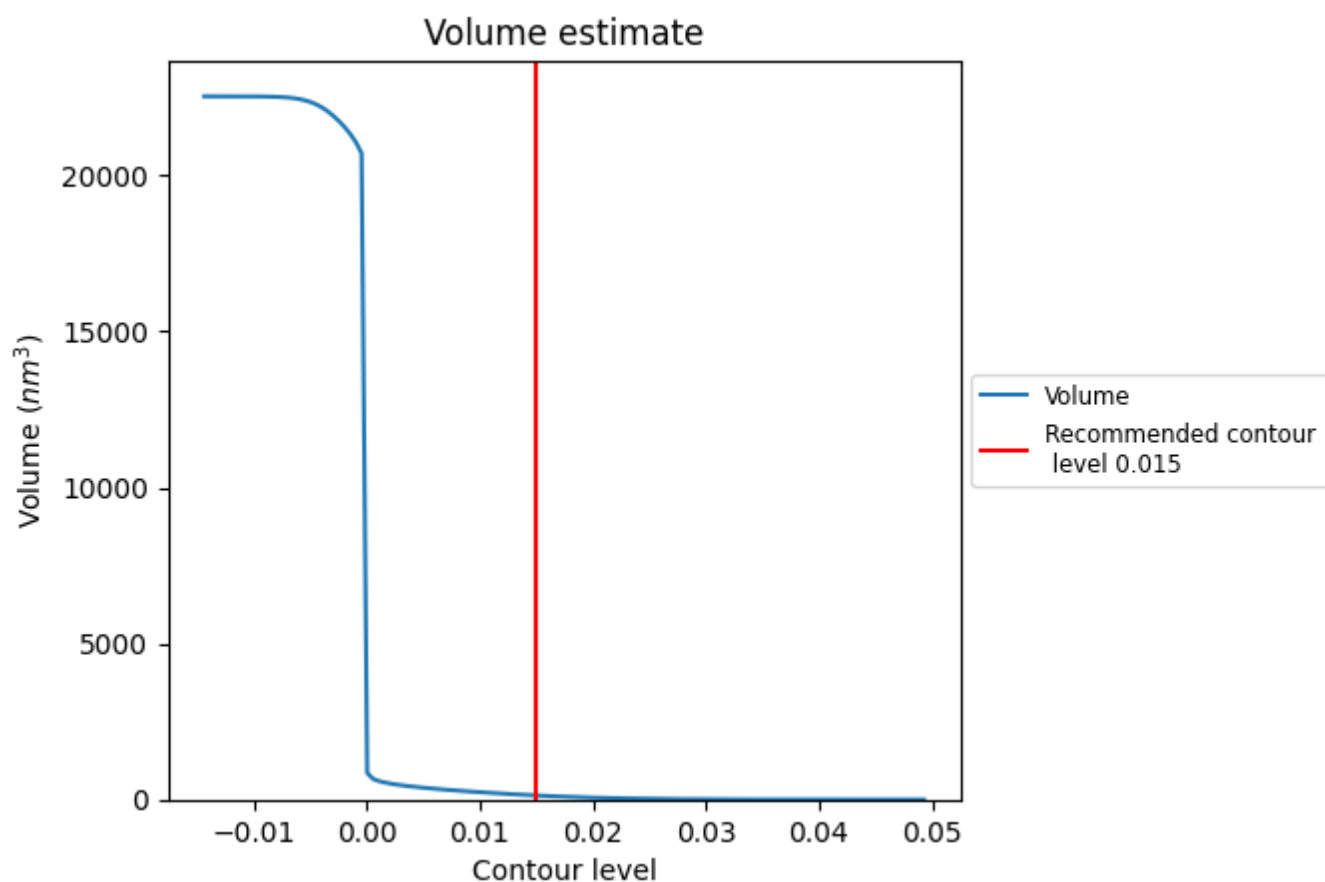
This section contains the results of statistical analysis of the map.

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.

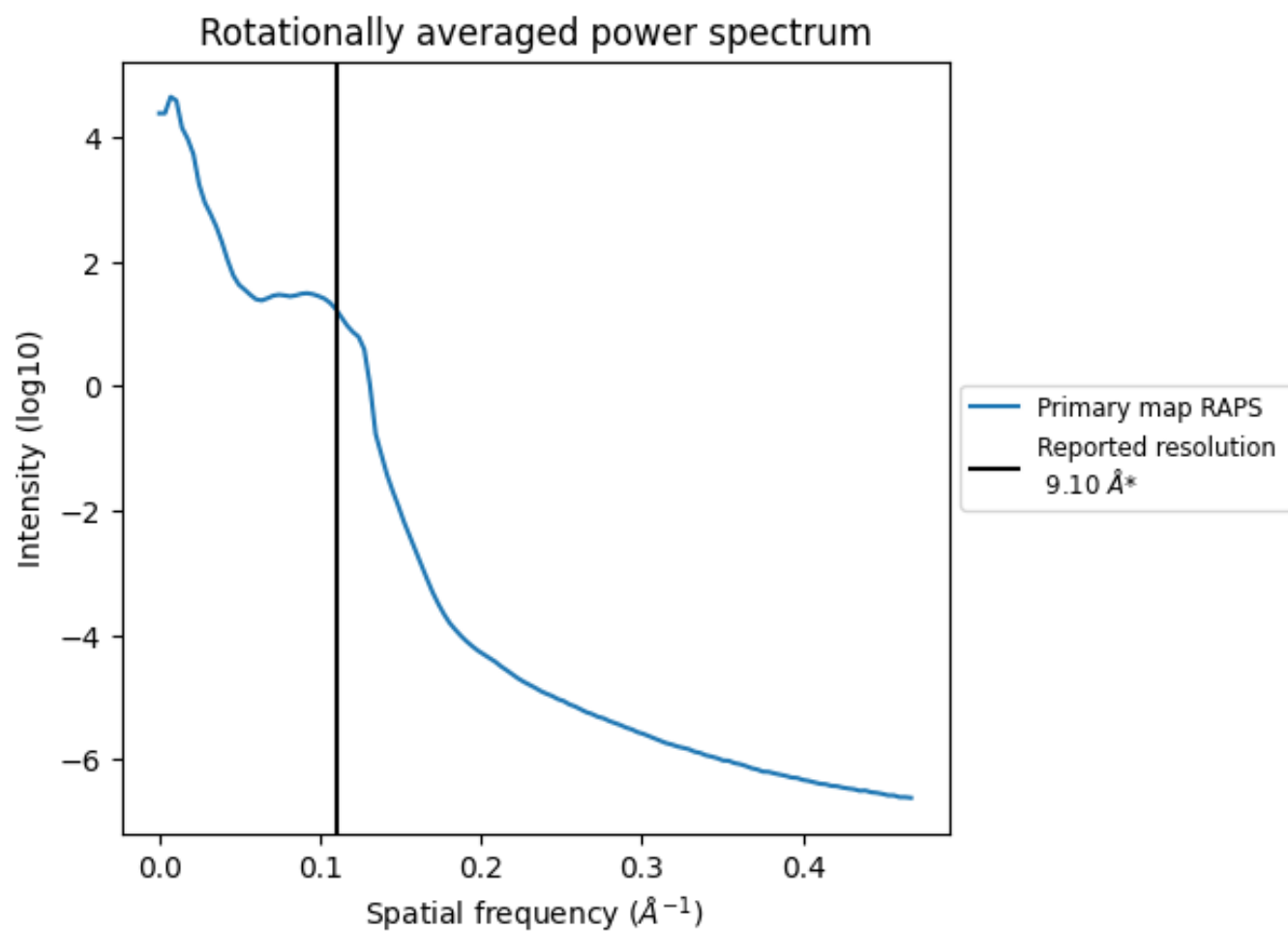
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 131 nm³; this corresponds to an approximate mass of 119 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 0.110 Å⁻¹

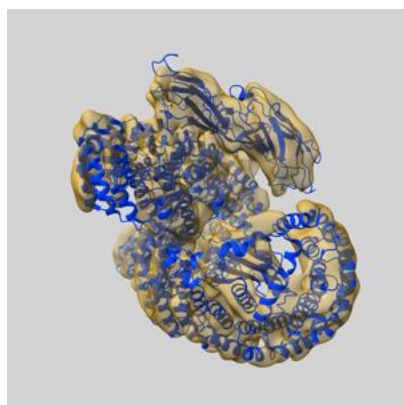
8 Fourier-Shell correlation

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

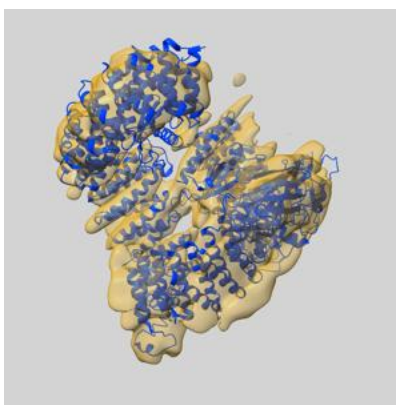
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-13187 and PDB model 7P3X. Per-residue inclusion information can be found in [section 3](#) on [page 5](#).

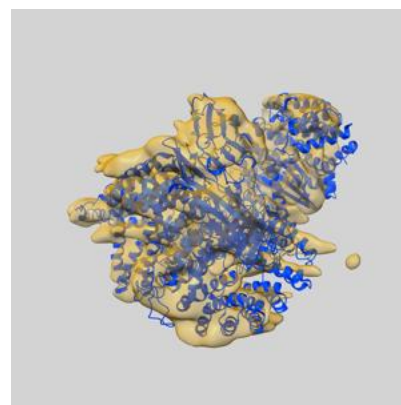
9.1 Map-model overlay [i](#)



X



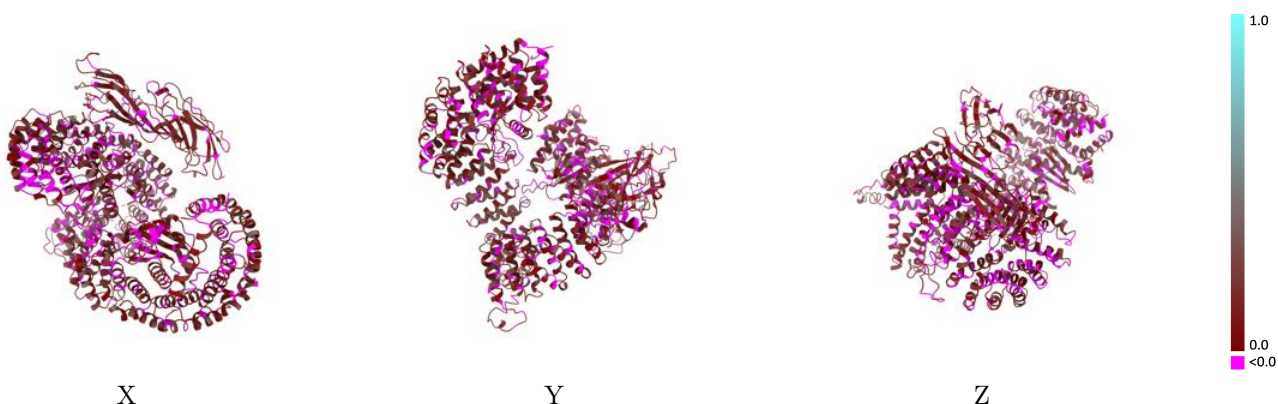
Y



Z

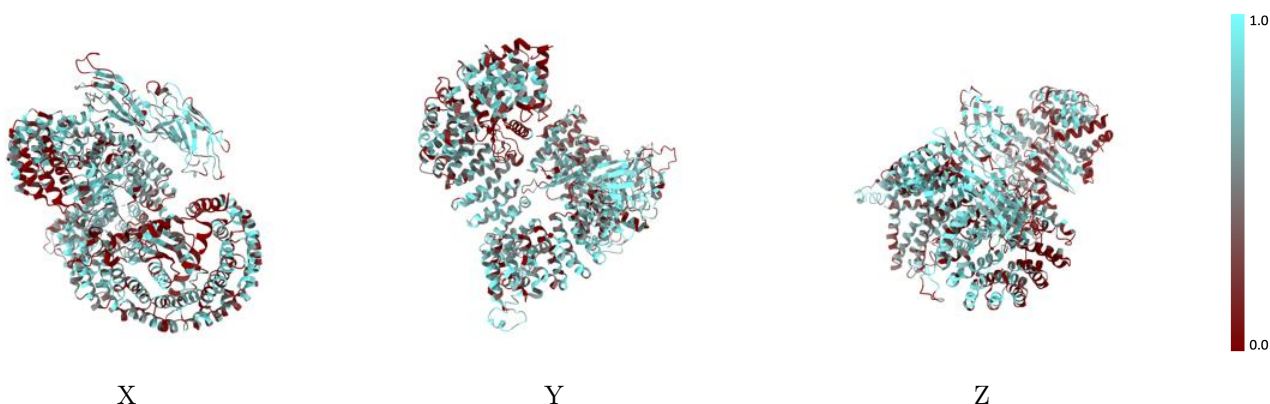
The images above show the 3D surface view of the map at the recommended contour level 0.015 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



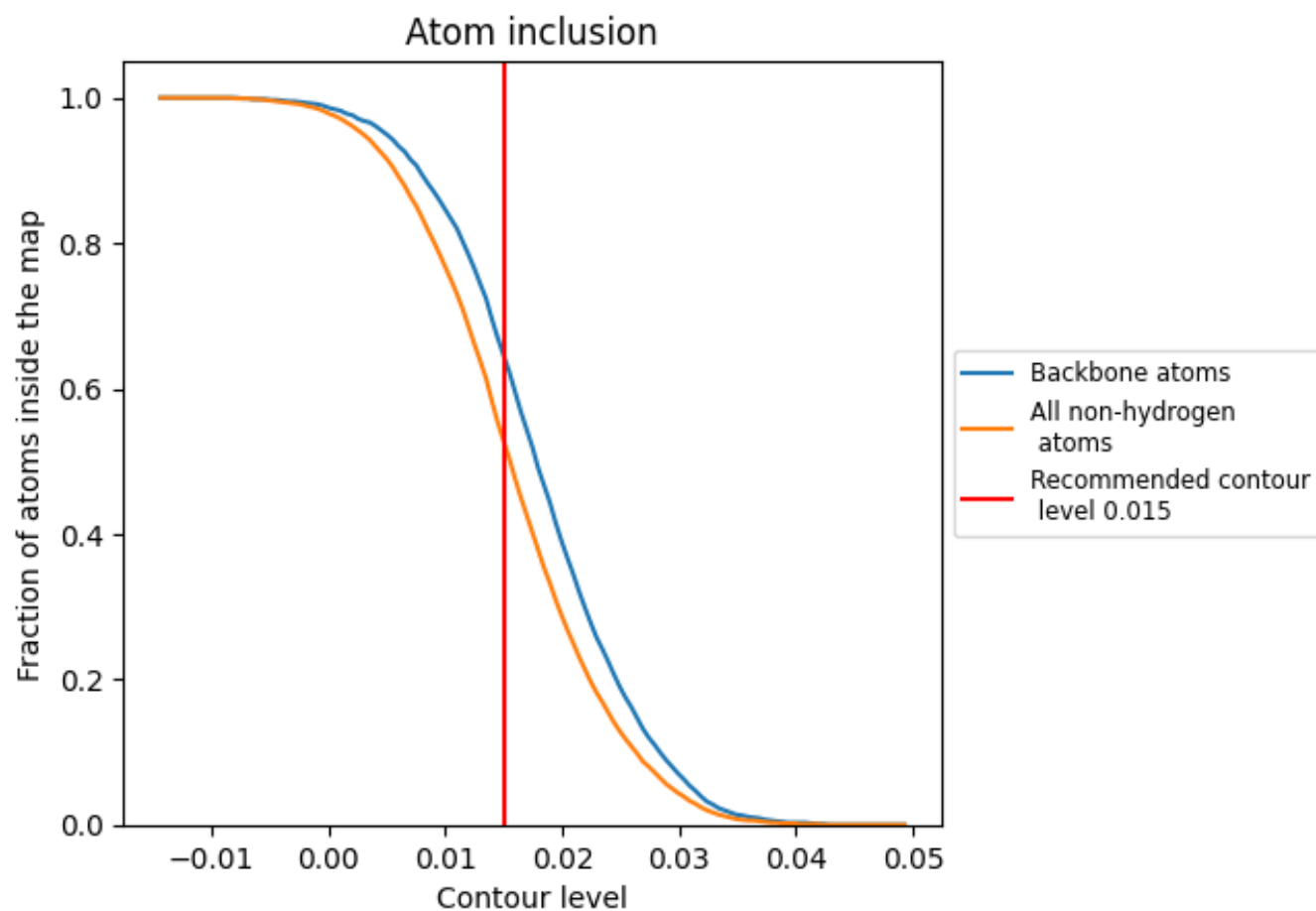
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.015).

9.4 Atom inclusion [i](#)



At the recommended contour level, 64% of all backbone atoms, 53% 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 (0.015) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5270	0.0850
A	0.5230	0.1110
B	0.5450	0.0690
M	0.5950	0.0810
S	0.3240	0.0690

