



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 10:37 AM UTC

PDB ID : 2TAA / pdb_00002taa
Title : STRUCTURE AND POSSIBLE CATALYTIC RESIDUES OF TAKA-AMYLASE A
Authors : Kusunoki, M.; Matsuura, Y.; Tanaka, N.; Kakudo, M.
Deposited on : 1982-10-18
Resolution : 3.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	NOT EXECUTED
EDS	:	NOT EXECUTED
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

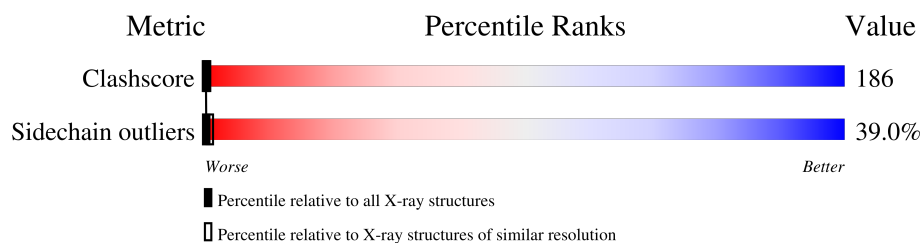
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	2977 (3.00-3.00)
Sidechain outliers	187428	2880 (3.00-3.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 $\leq 5\%$.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	478	
1	B	478	
1	C	478	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 11073 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 TAKA-AMYLASE A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	478	Total	C	N	O	S	0	0	0
			3690	2332	593	746	19			
1	B	478	Total	C	N	O	S	0	0	0
			3690	2332	593	746	19			
1	C	478	Total	C	N	O	S	0	0	0
			3690	2332	593	746	19			

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

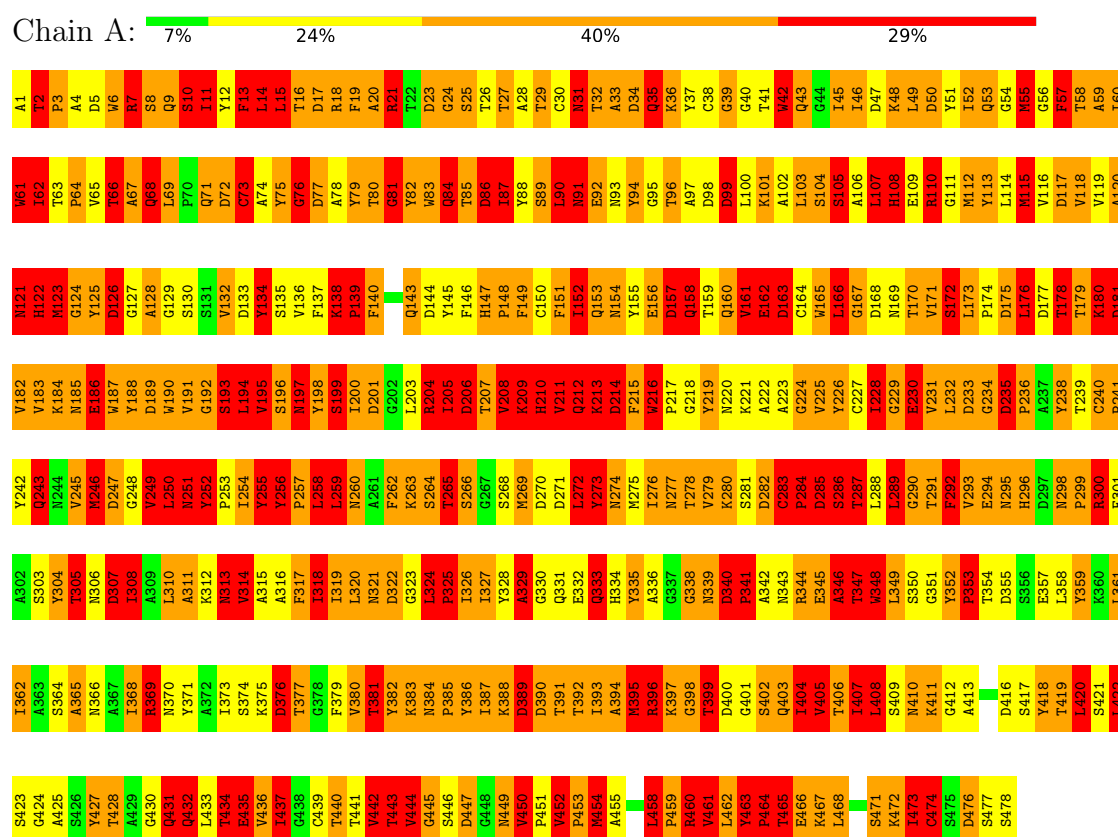
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Ca	0	0
			1	1		
2	B	1	Total	Ca	0	0
			1	1		
2	C	1	Total	Ca	0	0
			1	1		

3 Residue-property plots

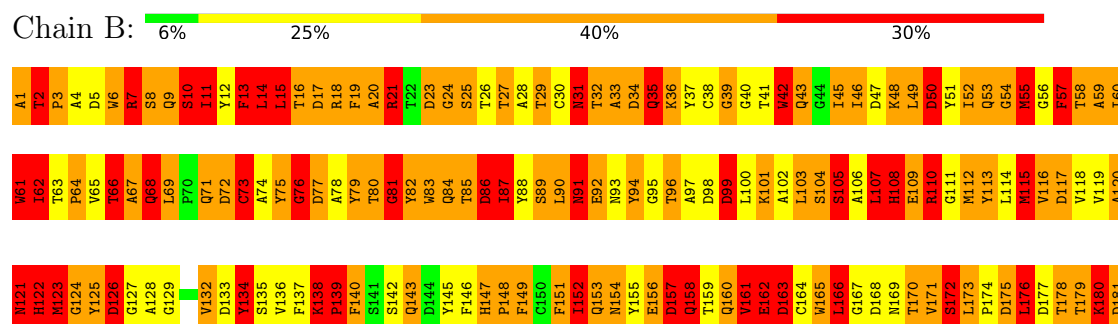
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

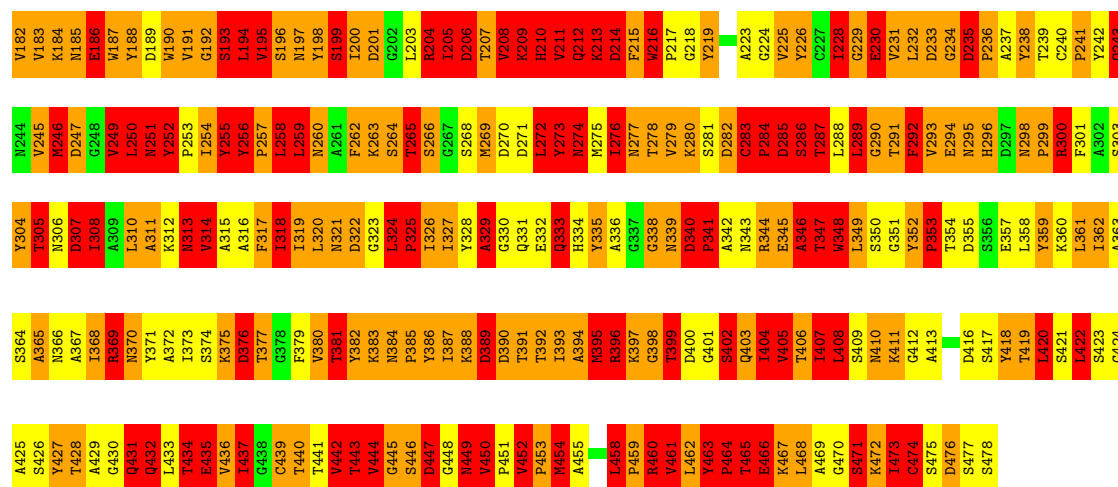
Note EDS was not executed.

• Molecule 1: TAKA-AMYLASE A



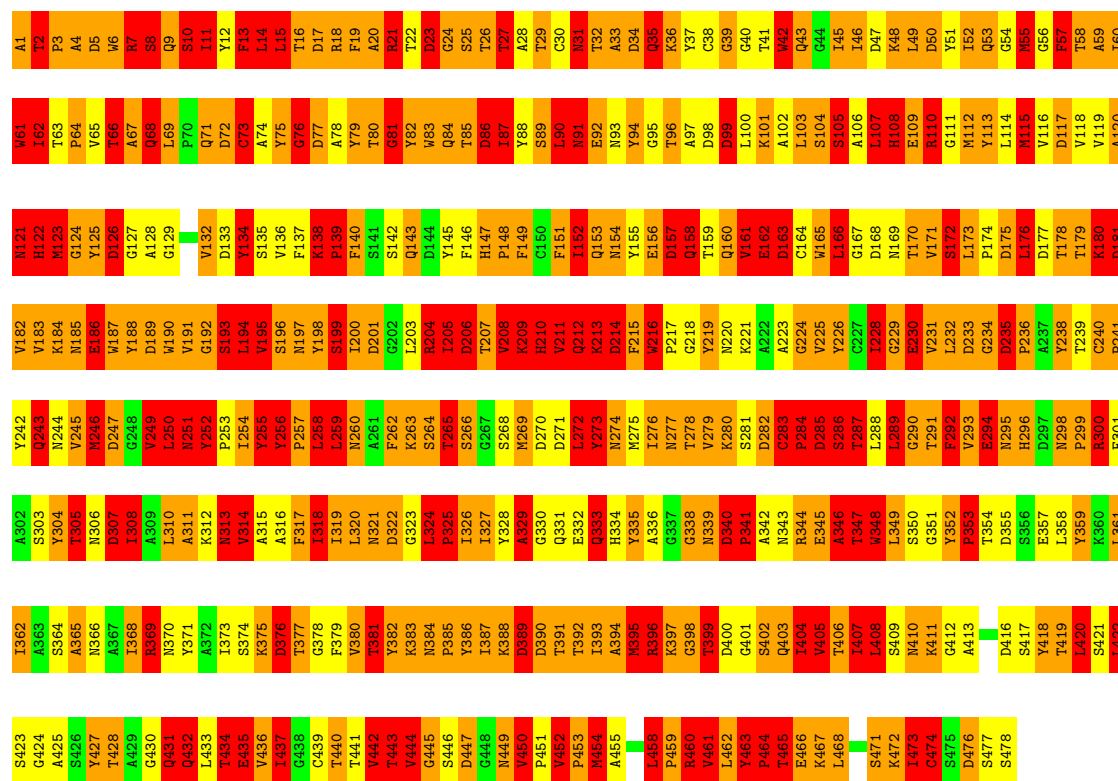
• Molecule 1: TAKA-AMYLASE A





• Molecule 1: TAKA-AMYLASE A

Chain C: 7% 23% 40% 29%



4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	91.90Å 133.30Å 94.30Å 90.00° 102.70° 90.00°	Depositor
Resolution (Å)	(Not available) – 3.00	Depositor
% Data completeness (in resolution range)	(Not available) ((Not available)-3.00)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	unknown	Depositor
R, R_{free}	(Not available) , (Not available)	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	11073	wwPDB-VP
Average B, all atoms (Å ²)	0.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

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

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	2.52	164/3782 (4.3%)	3.81	612/5163 (11.9%)
1	B	2.52	162/3782 (4.3%)	3.81	615/5163 (11.9%)
1	C	2.52	161/3782 (4.3%)	3.81	613/5163 (11.9%)
All	All	2.52	487/11346 (4.3%)	3.81	1840/15489 (11.9%)

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	2	87
1	B	2	87
1	C	2	87
All	All	6	261

All (487) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	404	ILE	N-CA	31.68	1.84	1.46
1	B	404	ILE	N-CA	31.66	1.84	1.46
1	A	404	ILE	N-CA	31.64	1.84	1.46
1	C	228	ILE	C-N	-18.02	1.24	1.33
1	A	228	ILE	C-N	-17.97	1.24	1.33
1	B	228	ILE	C-N	-17.95	1.24	1.33
1	C	463	TYR	CZ-OH	15.78	1.71	1.38
1	A	463	TYR	CZ-OH	15.77	1.71	1.38
1	B	463	TYR	CZ-OH	15.76	1.71	1.38
1	C	396	ARG	N-CA	15.27	1.65	1.46
1	B	404	ILE	CA-CB	15.24	1.71	1.53
1	B	396	ARG	N-CA	15.24	1.65	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	404	ILE	CA-CB	15.22	1.71	1.53
1	A	396	ARG	N-CA	15.22	1.65	1.46
1	C	404	ILE	CA-CB	15.20	1.71	1.53
1	A	404	ILE	C-O	14.11	1.42	1.23
1	B	404	ILE	C-O	14.09	1.42	1.23
1	C	404	ILE	C-O	14.06	1.42	1.23
1	B	212	GLN	N-CA	14.01	1.64	1.46
1	C	212	GLN	N-CA	13.99	1.64	1.46
1	A	212	GLN	N-CA	13.95	1.64	1.46
1	C	463	TYR	CA-C	13.79	1.68	1.52
1	B	463	TYR	CA-C	13.78	1.68	1.52
1	A	463	TYR	CA-C	13.76	1.68	1.52
1	C	42	TRP	NE1-CE2	-12.87	1.23	1.37
1	B	42	TRP	NE1-CE2	-12.85	1.23	1.37
1	A	42	TRP	NE1-CE2	-12.79	1.23	1.37
1	B	208	VAL	C-N	-12.76	1.17	1.33
1	A	208	VAL	C-N	-12.73	1.17	1.33
1	C	208	VAL	C-N	-12.71	1.17	1.33
1	B	464	PRO	CA-CB	12.52	1.70	1.53
1	A	464	PRO	CA-CB	12.50	1.70	1.53
1	C	464	PRO	CA-CB	12.47	1.70	1.53
1	C	463	TYR	C-N	12.39	1.48	1.33
1	A	463	TYR	C-N	12.39	1.48	1.33
1	B	463	TYR	C-N	12.37	1.48	1.33
1	A	474	CYS	CA-C	12.21	1.59	1.52
1	B	474	CYS	CA-C	12.14	1.59	1.52
1	B	464	PRO	N-CD	-12.07	1.30	1.47
1	A	464	PRO	N-CD	-12.05	1.30	1.47
1	C	474	CYS	CA-C	12.03	1.59	1.52
1	C	464	PRO	N-CD	-11.99	1.30	1.47
1	A	83	TRP	NE1-CE2	-11.78	1.24	1.37
1	C	83	TRP	NE1-CE2	-11.78	1.24	1.37
1	B	460	ARG	CD-NE	11.77	1.62	1.46
1	A	460	ARG	CD-NE	11.76	1.62	1.46
1	B	83	TRP	NE1-CE2	-11.74	1.24	1.37
1	C	460	ARG	CD-NE	11.69	1.62	1.46
1	C	397	LYS	N-CA	11.33	1.60	1.46
1	A	397	LYS	N-CA	11.29	1.60	1.46
1	B	341	PRO	N-CD	-11.25	1.31	1.47
1	A	341	PRO	N-CD	-11.24	1.32	1.47
1	B	397	LYS	N-CA	11.24	1.60	1.46
1	C	434	THR	C-N	11.24	1.47	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	341	PRO	N-CD	-11.23	1.32	1.47
1	A	434	THR	C-N	11.21	1.47	1.33
1	B	434	THR	C-N	11.16	1.47	1.33
1	B	385	PRO	N-CD	-11.14	1.32	1.47
1	A	385	PRO	N-CD	-11.12	1.32	1.47
1	B	211	VAL	CA-CB	-11.11	1.38	1.54
1	A	211	VAL	CA-CB	-11.09	1.38	1.54
1	C	385	PRO	N-CD	-11.07	1.32	1.47
1	C	211	VAL	CA-CB	-11.04	1.38	1.54
1	C	435	GLU	N-CA	10.78	1.58	1.46
1	A	435	GLU	N-CA	10.76	1.58	1.46
1	B	435	GLU	N-CA	10.76	1.58	1.46
1	A	341	PRO	N-CA	10.66	1.60	1.47
1	B	341	PRO	N-CA	10.61	1.60	1.47
1	C	341	PRO	N-CA	10.60	1.60	1.47
1	C	139	PRO	N-CD	-10.34	1.33	1.47
1	B	404	ILE	CB-CG1	-10.31	1.32	1.53
1	A	404	ILE	CB-CG1	-10.30	1.32	1.53
1	B	139	PRO	N-CD	-10.29	1.33	1.47
1	C	404	ILE	CB-CG1	-10.30	1.32	1.53
1	A	139	PRO	N-CD	-10.27	1.33	1.47
1	A	463	TYR	CD1-CE1	-9.96	1.08	1.38
1	B	463	TYR	CD1-CE1	-9.96	1.08	1.38
1	C	463	TYR	CD1-CE1	-9.95	1.08	1.38
1	B	447	ASP	N-CA	9.66	1.58	1.46
1	A	447	ASP	N-CA	9.61	1.58	1.46
1	C	447	ASP	N-CA	9.56	1.58	1.46
1	C	64	PRO	N-CA	9.43	1.59	1.47
1	A	64	PRO	N-CA	9.38	1.59	1.47
1	C	63	THR	CB-OG1	-9.38	1.28	1.43
1	B	63	THR	CB-OG1	-9.37	1.28	1.43
1	C	300	ARG	NE-CZ	-9.36	1.22	1.33
1	A	63	THR	CB-OG1	-9.35	1.28	1.43
1	B	64	PRO	N-CA	9.35	1.59	1.47
1	B	464	PRO	CA-C	9.29	1.63	1.52
1	A	300	ARG	NE-CZ	-9.28	1.22	1.33
1	A	81	GLY	C-N	9.28	1.45	1.33
1	A	139	PRO	CA-C	9.27	1.65	1.52
1	C	81	GLY	C-N	9.26	1.45	1.33
1	B	81	GLY	C-N	9.26	1.45	1.33
1	B	139	PRO	CA-C	9.26	1.65	1.52
1	C	139	PRO	CA-C	9.26	1.65	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	464	PRO	CA-C	9.23	1.63	1.52
1	B	300	ARG	NE-CZ	-9.21	1.23	1.33
1	C	464	PRO	CA-C	9.14	1.63	1.52
1	C	165	TRP	NE1-CE2	-9.12	1.27	1.37
1	B	165	TRP	NE1-CE2	-9.07	1.27	1.37
1	A	165	TRP	NE1-CE2	-9.07	1.27	1.37
1	C	348	TRP	NE1-CE2	-9.02	1.27	1.37
1	B	61	TRP	NE1-CE2	-9.01	1.27	1.37
1	C	61	TRP	NE1-CE2	-9.00	1.27	1.37
1	A	61	TRP	NE1-CE2	-8.99	1.27	1.37
1	A	348	TRP	NE1-CE2	-8.99	1.27	1.37
1	B	348	TRP	NE1-CE2	-8.96	1.27	1.37
1	B	341	PRO	CA-C	8.89	1.65	1.52
1	C	341	PRO	CA-C	8.89	1.65	1.52
1	A	341	PRO	CA-C	8.89	1.65	1.52
1	A	139	PRO	N-CA	8.88	1.58	1.47
1	B	139	PRO	N-CA	8.87	1.58	1.47
1	C	458	LEU	C-N	-8.82	1.17	1.34
1	A	458	LEU	C-N	-8.81	1.17	1.34
1	C	108	HIS	CD2-NE2	-8.80	1.28	1.37
1	C	139	PRO	N-CA	8.80	1.58	1.47
1	B	458	LEU	C-N	-8.80	1.17	1.34
1	C	139	PRO	C-N	8.78	1.45	1.33
1	A	139	PRO	C-N	8.77	1.45	1.33
1	A	108	HIS	CD2-NE2	-8.76	1.28	1.37
1	B	108	HIS	CD2-NE2	-8.74	1.28	1.37
1	B	139	PRO	C-N	8.73	1.45	1.33
1	C	11	ILE	CA-CB	-8.73	1.43	1.54
1	C	404	ILE	C-N	-8.66	1.22	1.33
1	B	11	ILE	CA-CB	-8.65	1.43	1.54
1	A	166	LEU	N-CA	8.65	1.56	1.46
1	A	11	ILE	CA-CB	-8.65	1.43	1.54
1	A	341	PRO	C-N	8.63	1.45	1.33
1	A	404	ILE	C-N	-8.62	1.22	1.33
1	C	166	LEU	N-CA	8.62	1.56	1.46
1	C	341	PRO	C-N	8.62	1.45	1.33
1	B	341	PRO	C-N	8.59	1.45	1.33
1	B	404	ILE	C-N	-8.58	1.22	1.33
1	B	166	LEU	N-CA	8.57	1.56	1.46
1	B	402	SER	C-N	-8.47	1.24	1.33
1	A	402	SER	C-N	-8.44	1.24	1.33
1	C	402	SER	C-N	-8.43	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	247	ASP	N-CA	8.38	1.57	1.46
1	B	247	ASP	N-CA	8.38	1.56	1.46
1	C	247	ASP	N-CA	8.35	1.56	1.46
1	C	293	VAL	N-CA	8.14	1.56	1.46
1	A	293	VAL	N-CA	8.11	1.56	1.46
1	C	459	PRO	N-CD	8.09	1.59	1.47
1	A	459	PRO	N-CD	8.08	1.59	1.47
1	B	293	VAL	N-CA	8.05	1.56	1.46
1	B	459	PRO	N-CD	8.05	1.59	1.47
1	C	168	ASP	N-CA	8.01	1.56	1.46
1	C	132	VAL	CA-CB	-7.96	1.43	1.54
1	A	132	VAL	CA-CB	-7.95	1.43	1.54
1	C	68	GLN	C-N	-7.95	1.21	1.33
1	B	132	VAL	CA-CB	-7.95	1.43	1.54
1	A	168	ASP	N-CA	7.94	1.56	1.46
1	A	68	GLN	C-N	-7.94	1.21	1.33
1	B	68	GLN	C-N	-7.92	1.21	1.33
1	B	168	ASP	N-CA	7.92	1.56	1.46
1	B	6	TRP	NE1-CE2	-7.90	1.28	1.37
1	C	6	TRP	NE1-CE2	-7.89	1.28	1.37
1	A	6	TRP	NE1-CE2	-7.88	1.28	1.37
1	C	187	TRP	NE1-CE2	-7.78	1.28	1.37
1	A	187	TRP	NE1-CE2	-7.78	1.28	1.37
1	B	187	TRP	NE1-CE2	-7.78	1.28	1.37
1	B	190	TRP	NE1-CE2	-7.76	1.28	1.37
1	C	190	TRP	NE1-CE2	-7.75	1.28	1.37
1	A	190	TRP	NE1-CE2	-7.74	1.28	1.37
1	B	463	TYR	CA-CB	7.69	1.67	1.53
1	A	463	TYR	CA-CB	7.66	1.67	1.53
1	C	463	TYR	CD2-CE2	7.64	1.61	1.38
1	A	463	TYR	CD2-CE2	7.64	1.61	1.38
1	C	463	TYR	CA-CB	7.64	1.67	1.53
1	B	463	TYR	CD2-CE2	7.61	1.61	1.38
1	B	175	ASP	N-CA	7.56	1.55	1.46
1	A	175	ASP	N-CA	7.55	1.55	1.46
1	C	175	ASP	N-CA	7.55	1.55	1.46
1	C	167	GLY	N-CA	7.51	1.54	1.44
1	B	14	LEU	N-CA	7.50	1.55	1.45
1	B	338	GLY	C-N	7.50	1.44	1.33
1	C	474	CYS	N-CA	7.49	1.55	1.45
1	B	167	GLY	N-CA	7.48	1.54	1.44
1	A	167	GLY	N-CA	7.47	1.54	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	14	LEU	N-CA	7.46	1.55	1.45
1	B	64	PRO	N-CD	-7.46	1.37	1.47
1	C	411	LYS	N-CA	7.46	1.56	1.45
1	A	338	GLY	C-N	7.45	1.44	1.33
1	C	395	MET	N-CA	7.45	1.55	1.45
1	A	395	MET	N-CA	7.45	1.55	1.45
1	A	474	CYS	N-CA	7.45	1.55	1.45
1	A	411	LYS	N-CA	7.44	1.56	1.45
1	C	338	GLY	C-N	7.44	1.44	1.33
1	B	411	LYS	N-CA	7.43	1.56	1.45
1	C	64	PRO	N-CD	-7.43	1.37	1.47
1	A	64	PRO	N-CD	-7.43	1.37	1.47
1	B	474	CYS	N-CA	7.42	1.55	1.45
1	C	14	LEU	N-CA	7.41	1.55	1.45
1	C	103	LEU	CB-CG	7.40	1.68	1.53
1	B	395	MET	N-CA	7.40	1.55	1.45
1	A	103	LEU	CB-CG	7.39	1.68	1.53
1	C	263	LYS	N-CA	7.39	1.55	1.46
1	B	103	LEU	CB-CG	7.38	1.68	1.53
1	A	263	LYS	N-CA	7.37	1.55	1.46
1	B	263	LYS	N-CA	7.36	1.55	1.46
1	B	19	PHE	N-CA	7.36	1.55	1.46
1	C	19	PHE	N-CA	7.33	1.55	1.46
1	A	19	PHE	N-CA	7.30	1.55	1.46
1	C	443	THR	N-CA	7.20	1.55	1.46
1	A	443	THR	N-CA	7.18	1.55	1.46
1	B	443	THR	N-CA	7.16	1.55	1.46
1	C	460	ARG	CZ-NH2	-7.08	1.24	1.33
1	B	104	SER	CB-OG	-7.06	1.28	1.42
1	A	104	SER	CB-OG	-7.05	1.28	1.42
1	A	460	ARG	CZ-NH2	-7.04	1.24	1.33
1	C	104	SER	CB-OG	-7.01	1.28	1.42
1	B	460	ARG	CZ-NH2	-7.01	1.24	1.33
1	A	398	GLY	N-CA	7.00	1.55	1.45
1	B	398	GLY	N-CA	7.00	1.55	1.45
1	C	398	GLY	N-CA	6.98	1.55	1.45
1	A	298	ASN	N-CA	6.96	1.50	1.46
1	C	298	ASN	N-CA	6.96	1.50	1.46
1	B	298	ASN	N-CA	6.93	1.50	1.46
1	C	166	LEU	C-N	6.86	1.45	1.33
1	A	166	LEU	C-N	6.83	1.45	1.33
1	B	166	LEU	C-N	6.78	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	171	VAL	CA-CB	-6.78	1.45	1.54
1	A	171	VAL	CA-CB	-6.77	1.45	1.54
1	C	180	LYS	N-CA	6.75	1.54	1.46
1	C	171	VAL	CA-CB	-6.73	1.45	1.54
1	A	180	LYS	N-CA	6.72	1.54	1.46
1	C	256	TYR	C-N	-6.69	1.25	1.34
1	B	180	LYS	N-CA	6.69	1.54	1.46
1	A	256	TYR	C-N	-6.67	1.25	1.34
1	C	33	ALA	N-CA	6.66	1.54	1.46
1	C	389	ASP	N-CA	6.66	1.54	1.46
1	B	389	ASP	N-CA	6.64	1.54	1.46
1	A	389	ASP	N-CA	6.63	1.54	1.46
1	B	256	TYR	C-N	-6.61	1.25	1.34
1	A	33	ALA	N-CA	6.61	1.54	1.46
1	B	33	ALA	N-CA	6.56	1.54	1.46
1	C	463	TYR	N-CA	6.51	1.56	1.46
1	A	463	TYR	N-CA	6.51	1.56	1.46
1	C	399	THR	N-CA	6.47	1.54	1.46
1	B	463	TYR	N-CA	6.47	1.56	1.46
1	C	461	VAL	N-CA	6.45	1.53	1.46
1	B	461	VAL	N-CA	6.43	1.53	1.46
1	A	461	VAL	N-CA	6.42	1.53	1.46
1	A	399	THR	N-CA	6.41	1.54	1.46
1	B	399	THR	N-CA	6.39	1.54	1.46
1	C	454	MET	N-CA	6.39	1.53	1.45
1	B	454	MET	N-CA	6.39	1.53	1.45
1	C	304	TYR	CZ-OH	-6.38	1.24	1.38
1	A	454	MET	N-CA	6.38	1.53	1.45
1	C	461	VAL	CA-CB	-6.36	1.46	1.54
1	B	304	TYR	CZ-OH	-6.35	1.24	1.38
1	B	461	VAL	CA-CB	-6.34	1.46	1.54
1	A	461	VAL	CA-CB	-6.33	1.46	1.54
1	A	304	TYR	CZ-OH	-6.32	1.24	1.38
1	B	329	ALA	N-CA	6.30	1.54	1.46
1	A	3	PRO	N-CA	6.29	1.55	1.47
1	C	3	PRO	N-CA	6.28	1.55	1.47
1	A	437	ILE	N-CA	6.28	1.54	1.46
1	C	463	TYR	CB-CG	6.26	1.65	1.51
1	A	463	TYR	CB-CG	6.26	1.65	1.51
1	C	437	ILE	N-CA	6.25	1.54	1.46
1	B	437	ILE	N-CA	6.24	1.54	1.46
1	B	463	TYR	CB-CG	6.24	1.65	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	3	PRO	N-CA	6.24	1.55	1.47
1	A	329	ALA	N-CA	6.24	1.54	1.46
1	C	435	GLU	C-N	-6.22	1.25	1.33
1	A	435	GLU	C-N	-6.21	1.25	1.33
1	A	410	ASN	N-CA	6.21	1.54	1.45
1	B	435	GLU	C-N	-6.20	1.25	1.33
1	C	410	ASN	N-CA	6.20	1.54	1.45
1	B	246	MET	N-CA	6.20	1.54	1.46
1	C	396	ARG	CD-NE	6.20	1.54	1.46
1	A	396	ARG	CD-NE	6.19	1.54	1.46
1	C	147	HIS	CD2-NE2	-6.19	1.31	1.37
1	A	76	GLY	C-N	6.18	1.42	1.33
1	C	329	ALA	N-CA	6.18	1.54	1.46
1	B	410	ASN	N-CA	6.18	1.53	1.45
1	B	107	LEU	C-N	-6.17	1.25	1.34
1	B	396	ARG	CD-NE	6.17	1.54	1.46
1	A	107	LEU	C-N	-6.16	1.25	1.34
1	A	246	MET	N-CA	6.16	1.54	1.46
1	A	21	ARG	CZ-NH2	-6.15	1.25	1.33
1	C	107	LEU	C-N	-6.15	1.25	1.34
1	B	76	GLY	C-N	6.15	1.42	1.33
1	B	21	ARG	CZ-NH2	-6.15	1.25	1.33
1	C	21	ARG	CZ-NH2	-6.15	1.25	1.33
1	A	147	HIS	CD2-NE2	-6.15	1.31	1.37
1	A	204	ARG	CD-NE	6.14	1.54	1.46
1	B	204	ARG	CD-NE	6.13	1.54	1.46
1	C	204	ARG	CD-NE	6.13	1.54	1.46
1	C	76	GLY	C-N	6.13	1.42	1.33
1	C	246	MET	N-CA	6.12	1.54	1.46
1	B	147	HIS	CD2-NE2	-6.09	1.31	1.37
1	C	216	TRP	NE1-CE2	-6.05	1.30	1.37
1	A	8	SER	N-CA	6.05	1.54	1.46
1	B	8	SER	N-CA	6.05	1.54	1.46
1	B	216	TRP	NE1-CE2	-6.05	1.30	1.37
1	B	7	ARG	CD-NE	6.03	1.54	1.46
1	A	216	TRP	NE1-CE2	-6.03	1.30	1.37
1	C	279	VAL	CA-CB	-6.01	1.48	1.54
1	C	96	THR	CB-OG1	-6.00	1.34	1.43
1	A	7	ARG	CD-NE	6.00	1.54	1.46
1	C	289	LEU	N-CA	5.99	1.52	1.45
1	C	8	SER	N-CA	5.98	1.54	1.46
1	B	182	VAL	N-CA	5.97	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	96	THR	CB-OG1	-5.97	1.34	1.43
1	A	289	LEU	N-CA	5.96	1.52	1.45
1	A	96	THR	CB-OG1	-5.95	1.34	1.43
1	A	279	VAL	CA-CB	-5.95	1.48	1.54
1	C	182	VAL	N-CA	5.94	1.53	1.46
1	B	289	LEU	N-CA	5.93	1.52	1.45
1	C	226	TYR	N-CA	5.93	1.53	1.46
1	A	182	VAL	N-CA	5.92	1.53	1.46
1	C	7	ARG	CD-NE	5.92	1.54	1.46
1	A	226	TYR	N-CA	5.90	1.53	1.46
1	C	265	THR	N-CA	5.87	1.53	1.46
1	A	32	THR	N-CA	5.84	1.53	1.46
1	B	279	VAL	CA-CB	-5.84	1.48	1.54
1	A	265	THR	N-CA	5.84	1.53	1.46
1	C	393	ILE	N-CA	5.83	1.53	1.46
1	A	393	ILE	N-CA	5.82	1.53	1.46
1	B	32	THR	N-CA	5.82	1.53	1.46
1	C	274	ASN	CA-C	5.81	1.60	1.52
1	B	226	TYR	N-CA	5.79	1.53	1.46
1	C	32	THR	N-CA	5.78	1.53	1.46
1	A	274	ASN	CA-C	5.77	1.60	1.52
1	B	265	THR	N-CA	5.76	1.53	1.46
1	C	204	ARG	NE-CZ	-5.75	1.26	1.33
1	B	204	ARG	NE-CZ	-5.74	1.26	1.33
1	B	393	ILE	N-CA	5.74	1.53	1.46
1	B	274	ASN	CA-C	5.73	1.60	1.52
1	A	204	ARG	NE-CZ	-5.72	1.26	1.33
1	A	252	TYR	N-CA	5.72	1.54	1.46
1	A	397	LYS	CA-C	5.68	1.59	1.52
1	C	252	TYR	N-CA	5.68	1.54	1.46
1	B	252	TYR	N-CA	5.68	1.54	1.46
1	C	397	LYS	CA-C	5.65	1.59	1.52
1	B	182	VAL	CA-CB	-5.63	1.46	1.54
1	B	397	LYS	CA-C	5.63	1.59	1.52
1	A	122	HIS	ND1-CE1	5.62	1.38	1.32
1	B	121	ASN	N-CA	5.61	1.53	1.46
1	C	365	ALA	C-N	-5.59	1.26	1.33
1	C	182	VAL	CA-CB	-5.59	1.46	1.54
1	A	182	VAL	CA-CB	-5.59	1.46	1.54
1	C	210	HIS	ND1-CE1	5.59	1.38	1.32
1	A	210	HIS	ND1-CE1	5.58	1.38	1.32
1	A	365	ALA	C-N	-5.58	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	122	HIS	ND1-CE1	5.57	1.38	1.32
1	B	152	ILE	N-CA	5.57	1.53	1.46
1	B	212	GLN	CA-C	5.57	1.60	1.52
1	C	118	VAL	N-CA	5.57	1.52	1.46
1	C	122	HIS	C-N	-5.56	1.26	1.33
1	C	212	GLN	CA-C	5.55	1.60	1.52
1	A	122	HIS	C-N	-5.55	1.26	1.33
1	A	152	ILE	N-CA	5.55	1.53	1.46
1	C	323	GLY	N-CA	5.55	1.50	1.45
1	A	121	ASN	N-CA	5.55	1.53	1.46
1	B	210	HIS	ND1-CE1	5.55	1.38	1.32
1	B	365	ALA	C-N	-5.54	1.26	1.33
1	B	122	HIS	ND1-CE1	5.54	1.38	1.32
1	B	384	ASN	N-CA	5.54	1.53	1.46
1	A	118	VAL	N-CA	5.54	1.52	1.46
1	A	62	ILE	C-N	-5.53	1.22	1.33
1	B	122	HIS	C-N	-5.53	1.26	1.33
1	A	212	GLN	CA-C	5.52	1.60	1.52
1	A	384	ASN	N-CA	5.52	1.53	1.46
1	B	62	ILE	C-N	-5.52	1.22	1.33
1	C	121	ASN	N-CA	5.52	1.53	1.46
1	B	118	VAL	N-CA	5.51	1.52	1.46
1	C	62	ILE	C-N	-5.51	1.22	1.33
1	C	152	ILE	N-CA	5.51	1.53	1.46
1	C	384	ASN	N-CA	5.50	1.53	1.46
1	A	2	THR	CA-C	5.49	1.59	1.52
1	C	193	SER	C-O	-5.49	1.17	1.24
1	A	193	SER	C-O	-5.48	1.17	1.24
1	C	412	GLY	N-CA	5.47	1.53	1.45
1	A	323	GLY	N-CA	5.46	1.50	1.45
1	B	323	GLY	N-CA	5.46	1.50	1.45
1	B	2	THR	CA-C	5.45	1.59	1.52
1	A	412	GLY	N-CA	5.45	1.53	1.45
1	B	412	GLY	N-CA	5.45	1.53	1.45
1	C	2	THR	CA-C	5.44	1.59	1.52
1	A	151	PHE	N-CA	5.44	1.53	1.46
1	B	193	SER	C-O	-5.43	1.17	1.24
1	B	151	PHE	N-CA	5.41	1.53	1.46
1	B	453	PRO	N-CD	-5.41	1.40	1.47
1	B	459	PRO	N-CA	5.41	1.56	1.47
1	A	459	PRO	N-CA	5.41	1.56	1.47
1	C	151	PHE	N-CA	5.40	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	97	ALA	N-CA	5.38	1.53	1.46
1	B	97	ALA	N-CA	5.38	1.53	1.46
1	B	449	ASN	CG-ND2	-5.36	1.22	1.33
1	C	77	ASP	N-CA	5.36	1.53	1.46
1	A	453	PRO	N-CD	-5.35	1.40	1.47
1	A	460	ARG	C-N	5.35	1.40	1.33
1	A	449	ASN	CG-ND2	-5.33	1.22	1.33
1	C	449	ASN	CG-ND2	-5.33	1.22	1.33
1	C	459	PRO	N-CA	5.33	1.56	1.47
1	C	453	PRO	N-CD	-5.33	1.40	1.47
1	A	77	ASP	N-CA	5.32	1.53	1.46
1	A	97	ALA	N-CA	5.32	1.53	1.46
1	B	147	HIS	CG-ND1	-5.32	1.32	1.38
1	B	201	ASP	N-CA	5.32	1.53	1.46
1	C	179	THR	CA-CB	-5.32	1.46	1.53
1	C	460	ARG	C-N	5.32	1.40	1.33
1	B	179	THR	CA-CB	-5.32	1.46	1.53
1	B	209	LYS	N-CA	-5.30	1.40	1.46
1	A	209	LYS	N-CA	-5.30	1.40	1.46
1	C	201	ASP	N-CA	5.29	1.52	1.46
1	C	49	LEU	C-N	-5.29	1.26	1.33
1	C	209	LYS	N-CA	-5.29	1.40	1.46
1	A	147	HIS	CG-ND1	-5.28	1.32	1.38
1	A	179	THR	CA-CB	-5.28	1.46	1.53
1	B	77	ASP	N-CA	5.28	1.53	1.46
1	B	460	ARG	C-N	5.28	1.40	1.33
1	C	147	HIS	CG-ND1	-5.28	1.32	1.38
1	A	201	ASP	N-CA	5.27	1.52	1.46
1	C	155	TYR	C-N	-5.26	1.26	1.33
1	B	155	TYR	C-N	-5.25	1.26	1.33
1	C	473	ILE	N-CA	5.24	1.52	1.46
1	B	49	LEU	C-N	-5.24	1.26	1.33
1	A	473	ILE	N-CA	5.23	1.52	1.46
1	B	473	ILE	N-CA	5.23	1.52	1.46
1	B	110	ARG	CD-NE	5.22	1.53	1.46
1	A	49	LEU	C-N	-5.22	1.26	1.33
1	A	155	TYR	C-N	-5.21	1.26	1.33
1	B	229	GLY	C-O	-5.21	1.16	1.23
1	A	339	ASN	N-CA	5.20	1.52	1.46
1	B	339	ASN	N-CA	5.20	1.52	1.46
1	A	36	LYS	N-CA	5.19	1.52	1.46
1	B	36	LYS	N-CA	5.19	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	110	ARG	CD-NE	5.18	1.53	1.46
1	A	229	GLY	C-O	-5.17	1.16	1.23
1	C	36	LYS	N-CA	5.17	1.52	1.46
1	C	339	ASN	N-CA	5.17	1.52	1.46
1	C	398	GLY	CA-C	5.17	1.59	1.51
1	B	398	GLY	CA-C	5.16	1.59	1.51
1	C	110	ARG	CD-NE	5.16	1.53	1.46
1	B	166	LEU	CA-C	5.16	1.59	1.52
1	C	214	ASP	C-N	-5.15	1.27	1.33
1	B	214	ASP	C-N	-5.14	1.27	1.33
1	A	398	GLY	CA-C	5.14	1.59	1.51
1	B	382	TYR	CZ-OH	-5.14	1.27	1.38
1	C	229	GLY	C-O	-5.14	1.16	1.23
1	B	444	VAL	N-CA	5.14	1.52	1.46
1	A	214	ASP	C-N	-5.13	1.27	1.33
1	C	382	TYR	CZ-OH	-5.11	1.27	1.38
1	A	296	HIS	CD2-NE2	-5.11	1.32	1.37
1	A	382	TYR	CZ-OH	-5.11	1.27	1.38
1	A	166	LEU	CA-C	5.11	1.59	1.52
1	B	296	HIS	CD2-NE2	-5.10	1.32	1.37
1	C	276	ILE	C-N	-5.10	1.27	1.33
1	B	62	ILE	C-O	-5.10	1.17	1.23
1	C	224	GLY	C-N	-5.09	1.26	1.33
1	C	166	LEU	CA-C	5.08	1.59	1.52
1	A	83	TRP	CD1-NE1	-5.08	1.27	1.37
1	B	83	TRP	CD1-NE1	-5.08	1.27	1.37
1	C	296	HIS	CD2-NE2	-5.08	1.32	1.37
1	C	382	TYR	C-N	-5.08	1.26	1.33
1	B	80	THR	C-N	-5.08	1.26	1.33
1	B	152	ILE	CA-CB	-5.08	1.47	1.54
1	B	276	ILE	C-N	-5.08	1.27	1.33
1	C	152	ILE	CA-CB	-5.07	1.47	1.54
1	A	80	THR	C-N	-5.06	1.26	1.33
1	A	276	ILE	C-N	-5.06	1.27	1.33
1	A	90	LEU	N-CA	5.06	1.52	1.46
1	A	444	VAL	N-CA	5.06	1.52	1.46
1	C	83	TRP	CD1-NE1	-5.05	1.27	1.37
1	A	152	ILE	CA-CB	-5.05	1.47	1.54
1	A	224	GLY	C-N	-5.05	1.26	1.33
1	B	296	HIS	C-N	-5.05	1.26	1.33
1	C	296	HIS	C-N	-5.05	1.26	1.33
1	A	388	LYS	N-CA	5.05	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	62	ILE	C-O	-5.04	1.17	1.23
1	A	62	ILE	C-O	-5.04	1.17	1.23
1	A	296	HIS	C-N	-5.04	1.26	1.33
1	A	382	TYR	C-N	-5.04	1.26	1.33
1	B	290	GLY	N-CA	5.04	1.52	1.45
1	C	388	LYS	N-CA	5.04	1.52	1.46
1	B	224	GLY	C-N	-5.04	1.26	1.33
1	C	80	THR	C-N	-5.03	1.26	1.33
1	A	125	TYR	N-CA	5.03	1.52	1.46
1	B	382	TYR	C-N	-5.02	1.26	1.33
1	A	290	GLY	N-CA	5.02	1.52	1.45
1	B	125	TYR	N-CA	5.01	1.52	1.46
1	C	90	LEU	N-CA	5.01	1.52	1.46

All (1840) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	464	PRO	CA-N-CD	-43.62	50.93	112.00
1	A	464	PRO	CA-N-CD	-43.62	50.94	112.00
1	C	464	PRO	CA-N-CD	-43.61	50.94	112.00
1	C	461	VAL	CA-C-O	-34.98	83.66	120.39
1	B	461	VAL	CA-C-O	-34.96	83.68	120.39
1	A	461	VAL	CA-C-O	-34.95	83.69	120.39
1	B	435	GLU	CA-C-O	-31.02	86.94	121.07
1	C	435	GLU	CA-C-O	-30.98	86.99	121.07
1	A	435	GLU	CA-C-O	-30.97	87.00	121.07
1	C	459	PRO	N-CD-CG	-30.32	67.42	103.80
1	A	459	PRO	N-CD-CG	-30.30	67.44	103.80
1	B	459	PRO	N-CD-CG	-30.29	67.45	103.80
1	C	19	PHE	CD1-CE1-CZ	-29.92	66.15	120.00
1	A	19	PHE	CD1-CE1-CZ	-29.91	66.17	120.00
1	B	19	PHE	CD1-CE1-CZ	-29.91	66.17	120.00
1	C	19	PHE	CZ-CE2-CD2	-29.64	66.65	120.00
1	A	19	PHE	CZ-CE2-CD2	-29.64	66.66	120.00
1	B	19	PHE	CZ-CE2-CD2	-29.63	66.66	120.00
1	B	300	ARG	NE-CZ-NH1	-29.28	92.22	121.50
1	A	300	ARG	NE-CZ-NH1	-29.25	92.25	121.50
1	C	300	ARG	NE-CZ-NH1	-29.23	92.27	121.50
1	B	139	PRO	CA-N-CD	-28.09	72.67	112.00
1	A	139	PRO	CA-N-CD	-28.05	72.72	112.00
1	C	139	PRO	CA-N-CD	-28.00	72.80	112.00
1	A	464	PRO	N-CA-CB	-26.61	79.94	103.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	464	PRO	N-CA-CB	-26.59	79.96	103.36
1	B	464	PRO	N-CA-CB	-26.58	79.97	103.36
1	B	163	ASP	CA-CB-CG	25.18	137.78	112.60
1	C	163	ASP	CA-CB-CG	25.16	137.76	112.60
1	A	163	ASP	CA-CB-CG	25.14	137.74	112.60
1	A	341	PRO	CA-N-CD	-24.98	77.03	112.00
1	C	341	PRO	CA-N-CD	-24.97	77.05	112.00
1	B	341	PRO	CA-N-CD	-24.96	77.06	112.00
1	C	435	GLU	O-C-N	-22.85	97.64	122.08
1	A	396	ARG	O-C-N	-22.80	95.92	123.05
1	C	396	ARG	O-C-N	-22.79	95.93	123.05
1	A	435	GLU	O-C-N	-22.76	97.72	122.08
1	B	396	ARG	O-C-N	-22.72	96.01	123.05
1	B	435	GLU	O-C-N	-22.70	97.79	122.08
1	C	463	TYR	CA-C-O	-22.05	97.75	119.80
1	A	463	TYR	CA-C-O	-22.01	97.79	119.80
1	B	463	TYR	CA-C-O	-22.00	97.80	119.80
1	A	459	PRO	N-CA-CB	-21.72	78.71	102.60
1	B	459	PRO	N-CA-CB	-21.72	78.71	102.60
1	C	459	PRO	N-CA-CB	-21.68	78.75	102.60
1	B	404	ILE	CA-CB-CG1	21.53	147.01	110.40
1	A	404	ILE	CA-CB-CG1	21.52	146.99	110.40
1	C	404	ILE	CA-CB-CG1	21.52	146.98	110.40
1	C	76	GLY	CA-C-O	-20.26	85.32	120.57
1	A	76	GLY	CA-C-O	-20.25	85.34	120.57
1	B	76	GLY	CA-C-O	-20.22	85.39	120.57
1	C	404	ILE	CB-CG1-CD1	-19.47	72.91	113.80
1	A	404	ILE	CB-CG1-CD1	-19.46	72.93	113.80
1	B	404	ILE	CB-CG1-CD1	-19.44	72.97	113.80
1	A	204	ARG	NE-CZ-NH1	-19.30	102.20	121.50
1	B	204	ARG	NE-CZ-NH1	-19.29	102.21	121.50
1	A	139	PRO	N-CA-CB	-19.27	83.02	103.25
1	C	204	ARG	NE-CZ-NH1	-19.26	102.24	121.50
1	C	139	PRO	N-CA-CB	-19.26	83.03	103.25
1	B	139	PRO	N-CA-CB	-19.25	83.04	103.25
1	B	63	THR	CA-CB-CG2	-18.50	79.04	110.50
1	A	63	THR	CA-CB-CG2	-18.49	79.07	110.50
1	C	63	THR	CA-CB-CG2	-18.48	79.08	110.50
1	C	464	PRO	CB-CG-CD	-18.35	47.38	106.10
1	A	464	PRO	CB-CG-CD	-18.34	47.40	106.10
1	B	464	PRO	CB-CG-CD	-18.34	47.40	106.10
1	C	460	ARG	NE-CZ-NH2	-18.10	102.91	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	460	ARG	NE-CZ-NH2	-18.09	102.92	119.20
1	B	460	ARG	NE-CZ-NH2	-18.02	102.99	119.20
1	A	47	ASP	CA-CB-CG	17.47	130.07	112.60
1	C	47	ASP	CA-CB-CG	17.46	130.06	112.60
1	B	47	ASP	CA-CB-CG	17.45	130.05	112.60
1	C	341	PRO	N-CA-CB	-17.05	85.34	103.25
1	A	341	PRO	N-CA-CB	-17.05	85.34	103.25
1	B	341	PRO	N-CA-CB	-16.98	85.42	103.25
1	C	138	LYS	C-N-CD	-16.88	55.78	125.00
1	A	138	LYS	C-N-CD	-16.88	55.80	125.00
1	B	138	LYS	C-N-CD	-16.87	55.85	125.00
1	C	458	LEU	C-N-CD	-16.62	84.04	120.60
1	B	458	LEU	C-N-CD	-16.61	84.06	120.60
1	A	458	LEU	C-N-CD	-16.60	84.08	120.60
1	B	460	ARG	NE-CZ-NH1	16.00	137.50	121.50
1	C	460	ARG	NE-CZ-NH1	16.00	137.50	121.50
1	A	460	ARG	NE-CZ-NH1	15.99	137.49	121.50
1	B	81	GLY	CA-C-O	-15.96	92.79	120.57
1	A	81	GLY	CA-C-O	-15.95	92.81	120.57
1	C	81	GLY	CA-C-O	-15.95	92.83	120.57
1	C	76	GLY	O-C-N	15.91	143.38	122.70
1	A	76	GLY	O-C-N	15.90	143.38	122.70
1	B	76	GLY	O-C-N	15.88	143.35	122.70
1	B	123	MET	N-CA-CB	-15.66	88.94	110.56
1	C	123	MET	N-CA-CB	-15.64	88.98	110.56
1	A	123	MET	N-CA-CB	-15.64	88.98	110.56
1	C	340	ASP	C-N-CD	-15.62	60.96	125.00
1	A	340	ASP	C-N-CD	-15.61	61.00	125.00
1	B	340	ASP	C-N-CD	-15.61	61.02	125.00
1	A	461	VAL	O-C-N	-15.51	106.51	123.26
1	C	461	VAL	O-C-N	-15.48	106.54	123.26
1	B	461	VAL	O-C-N	-15.46	106.56	123.26
1	B	340	ASP	O-C-N	15.45	139.09	121.32
1	A	340	ASP	O-C-N	15.43	139.06	121.32
1	C	340	ASP	O-C-N	15.40	139.03	121.32
1	C	96	THR	CA-CB-OG1	-15.33	86.60	109.60
1	A	96	THR	CA-CB-OG1	-15.33	86.60	109.60
1	A	80	THR	CA-C-N	15.32	151.43	121.41
1	A	80	THR	C-N-CA	15.32	151.43	121.41
1	B	96	THR	CA-CB-OG1	-15.31	86.64	109.60
1	C	80	THR	CA-C-N	15.30	151.40	121.41
1	C	80	THR	C-N-CA	15.30	151.40	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	80	THR	CA-C-N	15.28	151.36	121.41
1	B	80	THR	C-N-CA	15.28	151.36	121.41
1	B	404	ILE	CA-C-O	15.20	139.06	120.97
1	B	404	ILE	CB-CA-C	15.18	132.61	111.81
1	C	404	ILE	CB-CA-C	15.18	132.60	111.81
1	C	404	ILE	CA-C-O	15.18	139.03	120.97
1	A	404	ILE	CA-C-O	15.17	139.02	120.97
1	A	404	ILE	CB-CA-C	15.16	132.58	111.81
1	C	390	ASP	CA-CB-CG	14.79	127.39	112.60
1	A	390	ASP	CA-CB-CG	14.75	127.35	112.60
1	B	390	ASP	CA-CB-CG	14.70	127.30	112.60
1	B	138	LYS	CA-C-O	-14.45	104.97	120.87
1	A	138	LYS	CA-C-O	-14.42	105.01	120.87
1	C	138	LYS	CA-C-O	-14.40	105.03	120.87
1	A	250	LEU	CD1-CG-CD2	-14.39	79.13	110.80
1	B	250	LEU	CD1-CG-CD2	-14.39	79.14	110.80
1	C	250	LEU	CD1-CG-CD2	-14.38	79.16	110.80
1	A	404	ILE	O-C-N	-14.22	102.83	122.59
1	C	404	ILE	O-C-N	-14.21	102.83	122.59
1	B	404	ILE	O-C-N	-14.21	102.84	122.59
1	B	404	ILE	CA-CB-CG2	-14.18	86.39	110.50
1	A	404	ILE	CA-CB-CG2	-14.18	86.40	110.50
1	C	404	ILE	CA-CB-CG2	-14.17	86.41	110.50
1	B	340	ASP	CA-C-N	14.17	137.55	119.84
1	B	340	ASP	C-N-CA	14.17	137.55	119.84
1	A	340	ASP	CA-C-N	14.14	137.52	119.84
1	A	340	ASP	C-N-CA	14.14	137.52	119.84
1	C	340	ASP	CA-C-N	14.12	137.49	119.84
1	C	340	ASP	C-N-CA	14.12	137.49	119.84
1	C	463	TYR	N-CA-C	13.39	129.18	109.50
1	A	463	TYR	N-CA-C	13.37	129.16	109.50
1	B	463	TYR	N-CA-C	13.37	129.16	109.50
1	B	229	GLY	O-C-N	13.30	131.73	123.35
1	A	229	GLY	O-C-N	13.23	131.68	123.35
1	C	229	GLY	O-C-N	13.16	131.64	123.35
1	B	464	PRO	CB-CA-C	13.15	127.37	111.46
1	A	464	PRO	CB-CA-C	13.12	127.34	111.46
1	C	464	PRO	CB-CA-C	13.12	127.34	111.46
1	C	247	ASP	CA-CB-CG	13.10	125.70	112.60
1	A	463	TYR	CA-C-N	-13.07	106.18	119.90
1	A	463	TYR	C-N-CA	-13.07	106.18	119.90
1	A	247	ASP	CA-CB-CG	13.07	125.67	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	463	TYR	CA-C-N	-13.07	106.18	119.90
1	B	463	TYR	C-N-CA	-13.07	106.18	119.90
1	B	247	ASP	CA-CB-CG	13.05	125.65	112.60
1	C	463	TYR	CA-C-N	-13.02	106.22	119.90
1	C	463	TYR	C-N-CA	-13.02	106.22	119.90
1	A	139	PRO	O-C-N	-12.92	105.20	122.64
1	C	243	GLN	OE1-CD-NE2	-12.91	109.69	122.60
1	C	154	ASN	CA-CB-CG	12.91	125.51	112.60
1	B	139	PRO	O-C-N	-12.90	105.23	122.64
1	A	243	GLN	OE1-CD-NE2	-12.89	109.71	122.60
1	C	139	PRO	O-C-N	-12.89	105.24	122.64
1	A	154	ASN	CA-CB-CG	12.88	125.48	112.60
1	B	243	GLN	OE1-CD-NE2	-12.84	109.76	122.60
1	B	154	ASN	CA-CB-CG	12.83	125.43	112.60
1	C	147	HIS	CA-CB-CG	12.73	126.53	113.80
1	B	147	HIS	CA-CB-CG	12.72	126.52	113.80
1	A	147	HIS	CA-CB-CG	12.72	126.52	113.80
1	B	434	THR	CA-C-N	12.61	138.32	120.79
1	B	434	THR	C-N-CA	12.61	138.32	120.79
1	C	434	THR	CA-C-N	12.59	138.28	120.79
1	C	434	THR	C-N-CA	12.59	138.28	120.79
1	A	434	THR	CA-C-N	12.58	138.28	120.79
1	A	434	THR	C-N-CA	12.58	138.28	120.79
1	C	211	VAL	N-CA-C	12.52	129.57	112.04
1	A	211	VAL	N-CA-C	12.50	129.54	112.04
1	B	211	VAL	CA-C-O	-12.50	104.35	119.85
1	B	211	VAL	N-CA-C	12.47	129.50	112.04
1	A	211	VAL	CA-C-O	-12.46	104.39	119.85
1	C	211	VAL	CA-C-O	-12.45	104.42	119.85
1	C	167	GLY	N-CA-C	12.39	127.16	110.43
1	B	167	GLY	N-CA-C	12.38	127.14	110.43
1	A	167	GLY	N-CA-C	12.36	127.12	110.43
1	C	396	ARG	NE-CZ-NH2	12.36	130.32	119.20
1	A	396	ARG	NE-CZ-NH2	12.35	130.31	119.20
1	B	396	ARG	NE-CZ-NH2	12.34	130.30	119.20
1	C	208	VAL	CB-CA-C	12.17	127.28	111.70
1	A	208	VAL	CB-CA-C	12.16	127.27	111.70
1	B	208	VAL	CB-CA-C	12.16	127.27	111.70
1	C	19	PHE	CA-CB-CG	12.14	125.94	113.80
1	B	283	CYS	CB-CA-C	-12.13	94.39	109.31
1	A	19	PHE	CA-CB-CG	12.12	125.92	113.80
1	A	283	CYS	CB-CA-C	-12.12	94.41	109.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	19	PHE	CA-CB-CG	12.11	125.91	113.80
1	C	283	CYS	CB-CA-C	-12.08	94.45	109.31
1	A	420	LEU	CD1-CG-CD2	-12.07	84.25	110.80
1	C	420	LEU	CD1-CG-CD2	-12.07	84.25	110.80
1	B	420	LEU	CD1-CG-CD2	-12.06	84.27	110.80
1	A	204	ARG	NE-CZ-NH2	12.03	130.03	119.20
1	C	204	ARG	NE-CZ-NH2	12.01	130.01	119.20
1	B	204	ARG	NE-CZ-NH2	12.01	130.01	119.20
1	C	61	TRP	CA-C-N	-11.95	105.72	122.92
1	C	61	TRP	C-N-CA	-11.95	105.72	122.92
1	B	61	TRP	CA-C-N	-11.94	105.73	122.92
1	B	61	TRP	C-N-CA	-11.94	105.73	122.92
1	A	61	TRP	CA-C-N	-11.91	105.77	122.92
1	A	61	TRP	C-N-CA	-11.91	105.77	122.92
1	B	211	VAL	CA-CB-CG1	-11.89	90.19	110.40
1	C	211	VAL	CA-CB-CG1	-11.88	90.20	110.40
1	A	211	VAL	CA-CB-CG1	-11.88	90.20	110.40
1	B	403	GLN	CA-C-N	11.84	137.62	122.95
1	B	403	GLN	C-N-CA	11.84	137.62	122.95
1	C	403	GLN	CA-C-N	11.83	137.62	122.95
1	C	403	GLN	C-N-CA	11.83	137.62	122.95
1	A	403	GLN	CA-C-N	11.81	137.60	122.95
1	A	403	GLN	C-N-CA	11.81	137.60	122.95
1	B	341	PRO	O-C-N	-11.81	106.69	122.64
1	C	434	THR	CA-C-O	-11.81	107.59	121.05
1	B	341	PRO	N-CD-CG	-11.81	85.49	103.20
1	B	434	THR	CA-C-O	-11.80	107.59	121.05
1	C	341	PRO	N-CD-CG	-11.80	85.50	103.20
1	A	341	PRO	O-C-N	-11.79	106.72	122.64
1	A	434	THR	CA-C-O	-11.79	107.61	121.05
1	A	341	PRO	N-CD-CG	-11.79	85.52	103.20
1	C	343	ASN	CA-CB-CG	-11.78	100.82	112.60
1	C	341	PRO	O-C-N	-11.77	106.75	122.64
1	A	343	ASN	CA-CB-CG	-11.75	100.85	112.60
1	B	343	ASN	CA-CB-CG	-11.72	100.88	112.60
1	B	191	VAL	CA-CB-CG1	-11.69	90.52	110.40
1	A	191	VAL	CA-CB-CG1	-11.69	90.53	110.40
1	C	191	VAL	CA-CB-CG1	-11.68	90.55	110.40
1	B	207	THR	CA-C-N	11.62	135.99	120.77
1	B	207	THR	C-N-CA	11.62	135.99	120.77
1	B	67	ALA	CA-C-O	-11.61	103.91	120.51
1	C	207	THR	CA-C-N	11.60	135.97	120.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	207	THR	C-N-CA	11.60	135.97	120.77
1	A	207	THR	CA-C-N	11.57	135.93	120.77
1	A	207	THR	C-N-CA	11.57	135.93	120.77
1	A	67	ALA	CA-C-O	-11.57	103.96	120.51
1	C	67	ALA	CA-C-O	-11.57	103.96	120.51
1	B	404	ILE	CA-C-N	-11.54	108.12	123.12
1	B	404	ILE	C-N-CA	-11.54	108.12	123.12
1	A	463	TYR	CZ-CE2-CD2	-11.52	98.86	119.60
1	B	463	TYR	CZ-CE2-CD2	-11.52	98.87	119.60
1	A	404	ILE	CA-C-N	-11.50	108.17	123.12
1	A	404	ILE	C-N-CA	-11.50	108.17	123.12
1	C	463	TYR	CZ-CE2-CD2	-11.49	98.92	119.60
1	C	404	ILE	CA-C-N	-11.49	108.18	123.12
1	C	404	ILE	C-N-CA	-11.49	108.18	123.12
1	A	235	ASP	CA-CB-CG	11.36	123.96	112.60
1	C	235	ASP	CA-CB-CG	11.35	123.95	112.60
1	B	235	ASP	CA-CB-CG	11.34	123.94	112.60
1	B	208	VAL	N-CA-C	11.30	121.98	110.23
1	C	404	ILE	N-CA-C	11.30	124.06	106.88
1	A	208	VAL	N-CA-C	11.30	121.98	110.23
1	A	404	ILE	N-CA-C	11.30	124.06	106.88
1	B	404	ILE	N-CA-C	11.28	124.03	106.88
1	C	208	VAL	N-CA-C	11.27	121.95	110.23
1	C	138	LYS	O-C-N	11.25	133.52	121.60
1	B	138	LYS	O-C-N	11.23	133.50	121.60
1	B	463	TYR	CG-CD1-CE1	-11.20	104.40	121.20
1	A	463	TYR	CG-CD1-CE1	-11.20	104.41	121.20
1	A	138	LYS	O-C-N	11.19	133.46	121.60
1	A	225	VAL	N-CA-CB	-11.18	92.78	111.23
1	B	225	VAL	N-CA-CB	-11.18	92.79	111.23
1	C	63	THR	CA-CB-OG1	-11.18	92.83	109.60
1	C	463	TYR	CG-CD1-CE1	-11.17	104.44	121.20
1	C	225	VAL	N-CA-CB	-11.15	92.83	111.23
1	B	468	LEU	CD1-CG-CD2	-11.15	86.28	110.80
1	A	63	THR	CA-CB-OG1	-11.14	92.89	109.60
1	C	468	LEU	CD1-CG-CD2	-11.13	86.31	110.80
1	A	468	LEU	CD1-CG-CD2	-11.12	86.33	110.80
1	B	63	THR	CA-CB-OG1	-11.12	92.92	109.60
1	A	249	VAL	N-CA-C	11.06	124.56	108.53
1	C	249	VAL	N-CA-C	11.05	124.55	108.53
1	B	249	VAL	N-CA-C	11.04	124.54	108.53
1	B	197	ASN	CA-CB-CG	10.83	123.43	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	197	ASN	CA-CB-CG	10.83	123.43	112.60
1	A	197	ASN	CA-CB-CG	10.81	123.41	112.60
1	A	91	ASN	CB-CA-C	-10.79	88.96	110.42
1	B	91	ASN	CB-CA-C	-10.78	88.97	110.42
1	C	91	ASN	CB-CA-C	-10.78	88.97	110.42
1	C	435	GLU	N-CA-CB	10.69	126.06	109.82
1	A	435	GLU	N-CA-CB	10.67	126.03	109.82
1	B	435	GLU	N-CA-CB	10.66	126.03	109.82
1	B	279	VAL	N-CA-C	10.63	121.28	110.23
1	A	279	VAL	N-CA-C	10.63	121.28	110.23
1	C	279	VAL	N-CA-C	10.62	121.27	110.23
1	B	463	TYR	O-C-N	10.48	131.76	121.28
1	A	463	TYR	O-C-N	10.46	131.74	121.28
1	C	463	TYR	O-C-N	10.45	131.73	121.28
1	A	59	ALA	CA-C-N	10.42	134.06	122.59
1	A	59	ALA	C-N-CA	10.42	134.06	122.59
1	C	59	ALA	CA-C-N	10.41	134.04	122.59
1	C	59	ALA	C-N-CA	10.41	134.04	122.59
1	B	59	ALA	CA-C-N	10.40	134.03	122.59
1	B	59	ALA	C-N-CA	10.40	134.03	122.59
1	A	55	MET	CA-CB-CG	10.38	134.86	114.10
1	B	55	MET	CA-CB-CG	10.37	134.84	114.10
1	C	55	MET	CA-CB-CG	10.37	134.83	114.10
1	B	201	ASP	CA-CB-CG	10.30	122.90	112.60
1	C	31	ASN	CA-CB-CG	10.30	122.90	112.60
1	A	201	ASP	CA-CB-CG	10.30	122.90	112.60
1	C	201	ASP	CA-CB-CG	10.28	122.88	112.60
1	B	31	ASN	CA-CB-CG	10.27	122.87	112.60
1	A	31	ASN	CA-CB-CG	10.25	122.85	112.60
1	B	204	ARG	CD-NE-CZ	-10.25	110.05	124.40
1	C	204	ARG	CD-NE-CZ	-10.25	110.05	124.40
1	B	321	ASN	CA-CB-CG	10.24	122.84	112.60
1	A	204	ARG	CD-NE-CZ	-10.24	110.06	124.40
1	A	321	ASN	CA-CB-CG	10.24	122.84	112.60
1	C	321	ASN	CA-CB-CG	10.22	122.82	112.60
1	A	13	PHE	CA-C-O	-10.21	109.00	120.54
1	C	13	PHE	CA-C-O	-10.20	109.02	120.54
1	B	14	LEU	CD1-CG-CD2	-10.18	88.40	110.80
1	A	14	LEU	CD1-CG-CD2	-10.17	88.43	110.80
1	B	13	PHE	CA-C-O	-10.16	109.06	120.54
1	C	14	LEU	CD1-CG-CD2	-10.15	88.47	110.80
1	C	442	VAL	N-CA-CB	-10.15	100.09	111.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	442	VAL	N-CA-CB	-10.14	100.10	111.66
1	A	442	VAL	N-CA-CB	-10.13	100.11	111.66
1	C	85	THR	CA-CB-CG2	-10.10	93.34	110.50
1	A	85	THR	CA-CB-CG2	-10.08	93.36	110.50
1	C	91	ASN	CA-CB-CG	10.05	122.65	112.60
1	B	85	THR	CA-CB-CG2	-10.04	93.42	110.50
1	B	91	ASN	CA-CB-CG	10.03	122.63	112.60
1	A	91	ASN	CA-CB-CG	10.03	122.63	112.60
1	C	195	VAL	CG1-CB-CG2	-9.96	88.89	110.80
1	A	195	VAL	CG1-CB-CG2	-9.96	88.89	110.80
1	B	195	VAL	CG1-CB-CG2	-9.96	88.89	110.80
1	B	300	ARG	NE-CZ-NH2	-9.96	110.24	119.20
1	A	300	ARG	NE-CZ-NH2	-9.95	110.25	119.20
1	C	210	HIS	CA-CB-CG	9.94	123.73	113.80
1	C	300	ARG	NE-CZ-NH2	-9.94	110.26	119.20
1	B	210	HIS	CA-CB-CG	9.93	123.73	113.80
1	A	210	HIS	CA-CB-CG	9.93	123.73	113.80
1	B	2	THR	CA-C-N	9.93	132.25	119.84
1	B	2	THR	C-N-CA	9.93	132.25	119.84
1	A	2	THR	CA-C-N	9.90	132.22	119.84
1	A	2	THR	C-N-CA	9.90	132.22	119.84
1	B	465	THR	CA-CB-OG1	9.89	124.43	109.60
1	A	465	THR	CA-CB-OG1	9.89	124.43	109.60
1	C	2	THR	CA-C-N	9.88	132.19	119.84
1	C	2	THR	C-N-CA	9.88	132.19	119.84
1	B	208	VAL	CG1-CB-CG2	-9.88	89.08	110.80
1	C	465	THR	CA-CB-OG1	9.87	124.41	109.60
1	A	208	VAL	CG1-CB-CG2	-9.86	89.12	110.80
1	C	208	VAL	CG1-CB-CG2	-9.86	89.12	110.80
1	B	8	SER	CA-C-N	9.76	135.30	121.24
1	B	8	SER	C-N-CA	9.76	135.30	121.24
1	C	8	SER	CA-C-N	9.75	135.28	121.24
1	C	8	SER	C-N-CA	9.75	135.28	121.24
1	A	8	SER	CA-C-N	9.75	135.28	121.24
1	A	8	SER	C-N-CA	9.75	135.28	121.24
1	C	5	ASP	CA-CB-CG	9.73	122.33	112.60
1	B	5	ASP	CA-CB-CG	9.73	122.33	112.60
1	A	5	ASP	CA-CB-CG	9.73	122.33	112.60
1	B	458	LEU	CA-C-N	9.69	150.26	127.00
1	B	458	LEU	C-N-CA	9.69	150.26	127.00
1	A	458	LEU	CA-C-N	9.67	150.20	127.00
1	A	458	LEU	C-N-CA	9.67	150.20	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	73	CYS	CA-C-O	-9.67	109.58	120.70
1	C	286	SER	N-CA-C	-9.67	101.06	112.86
1	C	458	LEU	CA-C-N	9.66	150.19	127.00
1	C	458	LEU	C-N-CA	9.66	150.19	127.00
1	B	286	SER	N-CA-C	-9.66	101.07	112.86
1	A	73	CYS	CA-C-O	-9.66	109.59	120.70
1	A	286	SER	N-CA-C	-9.65	101.09	112.86
1	C	73	CYS	CA-C-O	-9.65	109.61	120.70
1	C	434	THR	O-C-N	9.61	134.35	123.01
1	A	434	THR	O-C-N	9.60	134.34	123.01
1	B	434	THR	O-C-N	9.60	134.34	123.01
1	B	21	ARG	NE-CZ-NH1	9.55	131.06	121.50
1	C	463	TYR	CD1-CG-CD2	-9.54	103.79	118.10
1	C	384	ASN	CA-C-N	9.53	130.90	120.13
1	C	384	ASN	C-N-CA	9.53	130.90	120.13
1	A	463	TYR	CD1-CG-CD2	-9.53	103.81	118.10
1	C	404	ILE	N-CA-CB	-9.52	100.18	111.60
1	A	21	ARG	NE-CZ-NH1	9.51	131.01	121.50
1	B	463	TYR	CD1-CG-CD2	-9.50	103.84	118.10
1	A	404	ILE	N-CA-CB	-9.49	100.21	111.60
1	B	404	ILE	N-CA-CB	-9.49	100.21	111.60
1	C	21	ARG	NE-CZ-NH1	9.48	130.98	121.50
1	A	384	ASN	CA-C-N	9.48	130.84	120.13
1	A	384	ASN	C-N-CA	9.48	130.84	120.13
1	B	384	ASN	CA-C-N	9.46	130.82	120.13
1	B	384	ASN	C-N-CA	9.46	130.82	120.13
1	B	63	THR	N-CA-C	9.44	130.68	109.81
1	C	396	ARG	N-CA-C	9.44	124.34	108.20
1	A	63	THR	N-CA-C	9.42	130.63	109.81
1	C	63	THR	N-CA-C	9.42	130.64	109.81
1	A	396	ARG	N-CA-C	9.42	124.30	108.20
1	B	396	ARG	N-CA-C	9.38	124.25	108.20
1	C	410	ASN	CA-C-O	-9.38	110.61	121.68
1	A	410	ASN	CA-C-O	-9.38	110.61	121.68
1	B	341	PRO	CA-C-N	9.36	139.42	121.54
1	B	341	PRO	C-N-CA	9.36	139.42	121.54
1	A	96	THR	OG1-CB-CG2	-9.36	90.58	109.30
1	A	341	PRO	CA-C-N	9.35	139.40	121.54
1	A	341	PRO	C-N-CA	9.35	139.40	121.54
1	C	341	PRO	CA-C-N	9.35	139.40	121.54
1	C	341	PRO	C-N-CA	9.35	139.40	121.54
1	A	18	ARG	CA-C-O	-9.35	111.20	120.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	96	THR	OG1-CB-CG2	-9.35	90.61	109.30
1	B	96	THR	OG1-CB-CG2	-9.34	90.61	109.30
1	B	410	ASN	CA-C-O	-9.32	110.68	121.68
1	C	18	ARG	CA-C-O	-9.32	111.22	120.92
1	B	18	ARG	CA-C-O	-9.31	111.23	120.92
1	B	82	TYR	CA-CB-CG	9.31	130.65	113.90
1	A	82	TYR	CA-CB-CG	9.30	130.65	113.90
1	C	82	TYR	CA-CB-CG	9.29	130.62	113.90
1	A	396	ARG	CD-NE-CZ	-9.03	111.76	124.40
1	C	396	ARG	CD-NE-CZ	-9.02	111.77	124.40
1	B	396	ARG	CD-NE-CZ	-9.02	111.78	124.40
1	C	43	GLN	OE1-CD-NE2	-8.99	113.61	122.60
1	B	444	VAL	N-CA-CB	-8.98	96.42	111.23
1	B	43	GLN	OE1-CD-NE2	-8.97	113.63	122.60
1	A	444	VAL	N-CA-CB	-8.96	96.45	111.23
1	C	444	VAL	N-CA-CB	-8.95	96.46	111.23
1	B	188	TYR	CA-CB-CG	8.95	130.01	113.90
1	A	43	GLN	OE1-CD-NE2	-8.94	113.66	122.60
1	A	188	TYR	CA-CB-CG	8.93	129.98	113.90
1	C	188	TYR	CA-CB-CG	8.91	129.94	113.90
1	A	473	ILE	CA-C-N	8.90	132.32	121.64
1	A	473	ILE	C-N-CA	8.90	132.32	121.64
1	B	473	ILE	CA-C-N	8.90	132.32	121.64
1	B	473	ILE	C-N-CA	8.90	132.32	121.64
1	C	473	ILE	CA-C-N	8.89	132.31	121.64
1	C	473	ILE	C-N-CA	8.89	132.31	121.64
1	B	230	GLU	CB-CG-CD	8.86	127.66	112.60
1	B	319	ILE	CA-C-N	8.84	132.85	120.29
1	B	319	ILE	C-N-CA	8.84	132.85	120.29
1	C	230	GLU	CB-CG-CD	8.84	127.63	112.60
1	A	230	GLU	CB-CG-CD	8.84	127.62	112.60
1	A	319	ILE	CA-C-N	8.83	132.83	120.29
1	A	319	ILE	C-N-CA	8.83	132.83	120.29
1	C	411	LYS	N-CA-C	8.82	122.66	109.95
1	C	442	VAL	CA-CB-CG1	8.82	125.39	110.40
1	B	62	ILE	CB-CG1-CD1	-8.82	95.29	113.80
1	C	62	ILE	CB-CG1-CD1	-8.81	95.30	113.80
1	C	319	ILE	CA-C-N	8.81	132.80	120.29
1	C	319	ILE	C-N-CA	8.81	132.80	120.29
1	A	411	LYS	N-CA-C	8.81	122.64	109.95
1	A	442	VAL	CA-CB-CG1	8.80	125.36	110.40
1	A	62	ILE	CB-CG1-CD1	-8.79	95.33	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	411	LYS	N-CA-C	8.79	122.61	109.95
1	B	442	VAL	CA-CB-CG1	8.78	125.33	110.40
1	B	84	GLN	CA-CB-CG	8.78	131.66	114.10
1	C	84	GLN	CA-CB-CG	8.78	131.65	114.10
1	B	442	VAL	N-CA-C	8.77	120.58	107.15
1	A	84	GLN	CA-CB-CG	8.77	131.63	114.10
1	C	442	VAL	N-CA-C	8.76	120.56	107.15
1	A	442	VAL	N-CA-C	8.76	120.55	107.15
1	B	441	THR	N-CA-C	8.73	122.84	108.96
1	A	441	THR	N-CA-C	8.71	122.81	108.96
1	A	396	ARG	NH1-CZ-NH2	-8.71	107.98	119.30
1	C	396	ARG	NH1-CZ-NH2	-8.71	107.98	119.30
1	B	396	ARG	NH1-CZ-NH2	-8.70	107.99	119.30
1	C	441	THR	N-CA-C	8.70	122.79	108.96
1	B	34	ASP	CA-CB-CG	8.63	121.23	112.60
1	A	452	VAL	CA-CB-CG2	-8.61	95.76	110.40
1	C	452	VAL	CA-CB-CG2	-8.61	95.77	110.40
1	B	325	PRO	N-CA-CB	-8.60	94.22	103.25
1	C	34	ASP	CA-CB-CG	8.59	121.19	112.60
1	A	459	PRO	N-CA-C	-8.59	89.78	112.10
1	A	34	ASP	CA-CB-CG	8.58	121.18	112.60
1	B	452	VAL	CA-CB-CG2	-8.58	95.81	110.40
1	B	459	PRO	N-CA-C	-8.58	89.79	112.10
1	C	459	PRO	N-CA-C	-8.58	89.79	112.10
1	B	64	PRO	CA-N-CD	-8.57	100.00	112.00
1	C	64	PRO	CA-N-CD	-8.57	100.01	112.00
1	A	64	PRO	CA-N-CD	-8.56	100.01	112.00
1	B	318	ILE	CA-CB-CG2	8.56	125.05	110.50
1	C	318	ILE	CA-CB-CG2	8.55	125.03	110.50
1	A	325	PRO	N-CA-CB	-8.54	94.28	103.25
1	B	341	PRO	CA-CB-CG	-8.54	88.28	104.50
1	C	325	PRO	N-CA-CB	-8.53	94.29	103.25
1	A	318	ILE	CA-CB-CG2	8.53	125.01	110.50
1	A	341	PRO	CA-CB-CG	-8.53	88.29	104.50
1	C	341	PRO	CA-CB-CG	-8.52	88.31	104.50
1	C	198	TYR	CA-C-O	-8.51	108.34	120.51
1	C	198	TYR	O-C-N	8.50	133.90	122.59
1	A	198	TYR	O-C-N	8.49	133.89	122.59
1	B	198	TYR	O-C-N	8.49	133.89	122.59
1	B	198	TYR	CA-C-O	-8.49	108.36	120.51
1	A	198	TYR	CA-C-O	-8.48	108.39	120.51
1	B	91	ASN	OD1-CG-ND2	-8.44	114.16	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	91	ASN	OD1-CG-ND2	-8.44	114.16	122.60
1	B	458	LEU	N-CA-C	8.44	128.46	109.81
1	A	91	ASN	OD1-CG-ND2	-8.44	114.17	122.60
1	A	458	LEU	N-CA-C	8.43	128.45	109.81
1	A	243	GLN	CG-CD-NE2	8.43	129.05	116.40
1	C	458	LEU	N-CA-C	8.42	128.43	109.81
1	C	243	GLN	CG-CD-NE2	8.42	129.03	116.40
1	B	243	GLN	CG-CD-NE2	8.41	129.02	116.40
1	B	388	LYS	N-CA-C	8.39	123.54	108.69
1	A	71	GLN	OE1-CD-NE2	-8.38	114.22	122.60
1	C	388	LYS	N-CA-C	8.39	123.53	108.69
1	B	71	GLN	OE1-CD-NE2	-8.38	114.22	122.60
1	A	388	LYS	N-CA-C	8.38	123.52	108.69
1	B	209	LYS	N-CA-CB	-8.38	97.83	109.98
1	C	71	GLN	OE1-CD-NE2	-8.36	114.25	122.60
1	A	209	LYS	N-CA-CB	-8.34	97.89	109.98
1	C	209	LYS	N-CA-CB	-8.33	97.90	109.98
1	B	228	ILE	O-C-N	-8.30	114.98	123.03
1	A	225	VAL	CA-CB-CG2	8.29	124.50	110.40
1	B	66	THR	CA-CB-OG1	8.29	122.04	109.60
1	B	225	VAL	CA-CB-CG2	8.29	124.50	110.40
1	A	228	ILE	O-C-N	-8.28	115.00	123.03
1	A	66	THR	CA-CB-OG1	8.27	122.01	109.60
1	C	225	VAL	CA-CB-CG2	8.27	124.45	110.40
1	C	228	ILE	O-C-N	-8.25	115.03	123.03
1	C	230	GLU	CA-CB-CG	8.24	130.57	114.10
1	B	474	CYS	N-CA-C	8.23	122.06	108.48
1	C	474	CYS	N-CA-C	8.23	122.07	108.48
1	A	474	CYS	N-CA-C	8.23	122.06	108.48
1	C	66	THR	CA-CB-OG1	8.23	121.94	109.60
1	A	230	GLU	CA-CB-CG	8.22	130.53	114.10
1	C	11	ILE	N-CA-C	8.21	120.95	108.71
1	B	230	GLU	CA-CB-CG	8.19	130.48	114.10
1	A	11	ILE	N-CA-C	8.18	120.90	108.71
1	B	11	ILE	N-CA-C	8.18	120.90	108.71
1	B	7	ARG	CA-C-N	8.18	134.58	120.68
1	B	7	ARG	C-N-CA	8.18	134.58	120.68
1	A	7	ARG	CA-C-N	8.16	134.55	120.68
1	A	7	ARG	C-N-CA	8.16	134.55	120.68
1	C	7	ARG	CA-C-N	8.11	134.47	120.68
1	C	7	ARG	C-N-CA	8.11	134.47	120.68
1	B	83	TRP	CA-C-O	-8.10	108.92	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	83	TRP	CA-C-O	-8.09	108.94	120.51
1	A	83	TRP	CA-C-O	-8.09	108.94	120.51
1	B	63	THR	OG1-CB-CG2	8.08	125.47	109.30
1	B	149	PHE	CA-CB-CG	8.08	121.88	113.80
1	B	15	LEU	CA-C-N	8.07	136.95	121.54
1	B	15	LEU	C-N-CA	8.07	136.95	121.54
1	A	15	LEU	CA-C-N	8.06	136.93	121.54
1	A	15	LEU	C-N-CA	8.06	136.93	121.54
1	A	63	THR	OG1-CB-CG2	8.05	125.41	109.30
1	B	443	THR	O-C-N	-8.05	111.78	122.57
1	C	443	THR	O-C-N	-8.05	111.78	122.57
1	C	149	PHE	CA-CB-CG	8.04	121.84	113.80
1	C	15	LEU	CA-C-N	8.03	136.88	121.54
1	C	15	LEU	C-N-CA	8.03	136.88	121.54
1	C	63	THR	OG1-CB-CG2	8.03	125.37	109.30
1	A	149	PHE	CA-CB-CG	8.03	121.83	113.80
1	A	443	THR	O-C-N	-8.03	111.82	122.57
1	A	346	ALA	N-CA-CB	-8.00	96.97	110.49
1	B	346	ALA	N-CA-CB	-8.00	96.97	110.49
1	C	346	ALA	N-CA-CB	-8.00	96.98	110.49
1	B	306	ASN	N-CA-CB	7.93	122.14	110.25
1	A	306	ASN	N-CA-CB	7.92	122.13	110.25
1	B	264	SER	CA-C-O	-7.91	112.69	120.92
1	A	264	SER	CA-C-O	-7.91	112.70	120.92
1	B	273	TYR	CB-CA-C	-7.90	98.17	110.81
1	B	65	VAL	CA-CB-CG1	7.89	123.82	110.40
1	A	65	VAL	CA-CB-CG1	7.89	123.81	110.40
1	C	65	VAL	CA-CB-CG1	7.88	123.80	110.40
1	A	273	TYR	CB-CA-C	-7.88	98.20	110.81
1	C	264	SER	CA-C-O	-7.88	112.72	120.92
1	C	52	ILE	CA-C-N	7.87	131.17	120.54
1	C	52	ILE	C-N-CA	7.87	131.17	120.54
1	C	306	ASN	N-CA-CB	7.87	122.06	110.25
1	C	273	TYR	CB-CA-C	-7.87	98.22	110.81
1	C	8	SER	N-CA-C	7.86	122.13	112.23
1	B	441	THR	CA-C-N	7.86	132.30	122.48
1	B	441	THR	C-N-CA	7.86	132.30	122.48
1	A	52	ILE	CA-C-N	7.85	131.14	120.54
1	A	52	ILE	C-N-CA	7.85	131.14	120.54
1	A	441	THR	CA-C-N	7.84	132.28	122.48
1	A	441	THR	C-N-CA	7.84	132.28	122.48
1	B	8	SER	N-CA-C	7.84	122.11	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	8	SER	N-CA-C	7.84	122.11	112.23
1	B	52	ILE	CA-C-N	7.82	131.10	120.54
1	B	52	ILE	C-N-CA	7.82	131.10	120.54
1	C	441	THR	CA-C-N	7.82	132.26	122.48
1	C	441	THR	C-N-CA	7.82	132.26	122.48
1	A	445	GLY	CA-C-O	-7.79	113.54	121.64
1	B	387	ILE	CB-CG1-CD1	-7.78	97.46	113.80
1	B	247	ASP	N-CA-CB	7.78	123.64	110.49
1	B	445	GLY	CA-C-O	-7.77	113.56	121.64
1	A	247	ASP	N-CA-CB	7.77	123.62	110.49
1	A	387	ILE	CB-CG1-CD1	-7.76	97.49	113.80
1	B	64	PRO	CA-CB-CG	-7.76	89.75	104.50
1	A	64	PRO	CA-CB-CG	-7.76	89.75	104.50
1	C	247	ASP	N-CA-CB	7.76	123.60	110.49
1	C	387	ILE	CB-CG1-CD1	-7.76	97.51	113.80
1	C	445	GLY	CA-C-O	-7.76	113.57	121.64
1	C	64	PRO	CA-CB-CG	-7.72	89.84	104.50
1	C	283	CYS	N-CA-CB	-7.71	98.02	109.90
1	C	225	VAL	CA-CB-CG1	7.71	123.51	110.40
1	B	225	VAL	CA-CB-CG1	7.70	123.49	110.40
1	C	172	SER	CA-C-O	-7.70	110.87	120.57
1	A	225	VAL	CA-CB-CG1	7.69	123.48	110.40
1	C	19	PHE	CA-C-N	7.69	131.63	120.71
1	C	19	PHE	C-N-CA	7.69	131.63	120.71
1	B	172	SER	CA-C-O	-7.69	110.89	120.57
1	B	283	CYS	N-CA-CB	-7.68	98.08	109.90
1	A	283	CYS	N-CA-CB	-7.68	98.08	109.90
1	A	205	ILE	CB-CG1-CD1	-7.67	97.69	113.80
1	A	19	PHE	CA-C-N	7.67	131.61	120.71
1	A	19	PHE	C-N-CA	7.67	131.61	120.71
1	A	172	SER	CA-C-O	-7.67	110.90	120.57
1	B	205	ILE	CB-CG1-CD1	-7.66	97.70	113.80
1	C	85	THR	OG1-CB-CG2	-7.66	93.97	109.30
1	B	85	THR	OG1-CB-CG2	-7.66	93.98	109.30
1	C	205	ILE	CB-CG1-CD1	-7.66	97.71	113.80
1	C	229	GLY	CA-C-N	7.65	137.93	121.64
1	C	229	GLY	C-N-CA	7.65	137.93	121.64
1	A	229	GLY	CA-C-N	7.65	137.93	121.64
1	A	229	GLY	C-N-CA	7.65	137.93	121.64
1	A	85	THR	OG1-CB-CG2	-7.64	94.01	109.30
1	B	229	GLY	CA-C-N	7.64	137.91	121.64
1	B	229	GLY	C-N-CA	7.64	137.91	121.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	450	VAL	N-CA-C	7.63	125.37	108.88
1	A	450	VAL	N-CA-C	7.63	125.35	108.88
1	B	236	PRO	CB-CA-C	-7.63	98.97	111.56
1	B	19	PHE	CA-C-N	7.62	131.52	120.71
1	B	19	PHE	C-N-CA	7.62	131.52	120.71
1	C	450	VAL	N-CA-C	7.61	125.31	108.88
1	C	236	PRO	CB-CA-C	-7.60	99.01	111.56
1	A	62	ILE	CA-C-O	-7.60	113.92	121.67
1	C	62	ILE	CA-C-O	-7.59	113.92	121.67
1	A	236	PRO	CB-CA-C	-7.59	99.04	111.56
1	B	314	VAL	O-C-N	7.59	129.75	121.94
1	A	161	VAL	CA-C-N	7.58	135.05	122.54
1	A	161	VAL	C-N-CA	7.58	135.05	122.54
1	C	161	VAL	CA-C-N	7.58	135.05	122.54
1	C	161	VAL	C-N-CA	7.58	135.05	122.54
1	A	225	VAL	O-C-N	-7.58	113.10	122.57
1	C	225	VAL	O-C-N	-7.57	113.11	122.57
1	B	153	GLN	OE1-CD-NE2	-7.57	115.03	122.60
1	B	25	SER	N-CA-C	7.57	121.92	112.24
1	B	454	MET	N-CA-C	7.57	121.72	110.52
1	A	25	SER	N-CA-C	7.56	121.92	112.24
1	C	1	ALA	CA-C-O	-7.56	107.95	120.80
1	B	161	VAL	CA-C-N	7.56	135.01	122.54
1	B	161	VAL	C-N-CA	7.56	135.01	122.54
1	B	225	VAL	O-C-N	-7.56	113.12	122.57
1	B	62	ILE	CA-C-O	-7.56	113.96	121.67
1	A	1	ALA	CA-C-O	-7.55	107.97	120.80
1	B	63	THR	N-CA-CB	-7.55	96.93	110.37
1	C	153	GLN	OE1-CD-NE2	-7.55	115.05	122.60
1	A	63	THR	N-CA-CB	-7.54	96.94	110.37
1	A	454	MET	N-CA-C	7.54	121.68	110.52
1	B	1	ALA	CA-C-O	-7.54	107.98	120.80
1	B	87	ILE	CA-C-O	-7.54	111.36	120.78
1	C	63	THR	N-CA-CB	-7.54	96.95	110.37
1	C	25	SER	N-CA-C	7.54	121.89	112.24
1	C	87	ILE	CA-C-O	-7.54	111.36	120.78
1	C	454	MET	N-CA-C	7.54	121.67	110.52
1	A	87	ILE	CA-C-O	-7.53	111.36	120.78
1	A	197	ASN	CA-C-O	-7.53	112.61	121.11
1	A	314	VAL	O-C-N	7.52	129.69	121.94
1	B	197	ASN	CA-C-O	-7.52	112.61	121.11
1	C	314	VAL	O-C-N	7.52	129.69	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	432	GLN	CB-CA-C	7.52	122.37	110.19
1	C	432	GLN	CB-CA-C	7.52	122.37	110.19
1	A	153	GLN	OE1-CD-NE2	-7.50	115.10	122.60
1	C	197	ASN	CA-C-O	-7.50	112.64	121.11
1	B	432	GLN	CB-CA-C	7.50	122.33	110.19
1	A	154	ASN	N-CA-C	-7.49	94.85	110.80
1	C	460	ARG	CA-C-N	7.48	132.94	123.14
1	C	460	ARG	C-N-CA	7.48	132.94	123.14
1	A	10	SER	N-CA-CB	-7.48	98.98	109.97
1	A	226	TYR	N-CA-C	7.48	126.72	110.80
1	B	307	ASP	CA-CB-CG	7.47	120.07	112.60
1	C	10	SER	N-CA-CB	-7.47	98.98	109.97
1	C	407	ILE	N-CA-C	7.47	118.43	107.37
1	B	154	ASN	N-CA-C	-7.47	94.89	110.80
1	C	154	ASN	N-CA-C	-7.47	94.89	110.80
1	A	460	ARG	CA-C-N	7.46	132.92	123.14
1	A	460	ARG	C-N-CA	7.46	132.92	123.14
1	B	226	TYR	N-CA-C	7.46	126.70	110.80
1	C	226	TYR	N-CA-C	7.46	126.70	110.80
1	C	324	LEU	O-C-N	-7.46	114.24	121.18
1	B	10	SER	N-CA-CB	-7.46	99.00	109.97
1	B	427	TYR	CA-CB-CG	7.46	127.33	113.90
1	A	307	ASP	CA-CB-CG	7.46	120.06	112.60
1	B	460	ARG	CA-C-N	7.45	132.90	123.14
1	B	460	ARG	C-N-CA	7.45	132.90	123.14
1	B	407	ILE	N-CA-C	7.45	118.39	107.37
1	A	407	ILE	N-CA-C	7.44	118.39	107.37
1	A	324	LEU	O-C-N	-7.44	114.26	121.18
1	C	285	ASP	O-C-N	7.44	132.48	122.59
1	B	285	ASP	O-C-N	7.43	132.47	122.59
1	A	71	GLN	CB-CG-CD	7.43	125.22	112.60
1	B	64	PRO	N-CA-CB	7.43	111.05	103.25
1	C	71	GLN	CB-CG-CD	7.43	125.22	112.60
1	A	201	ASP	CB-CA-C	-7.42	97.16	110.37
1	B	201	ASP	CB-CA-C	-7.42	97.16	110.37
1	A	427	TYR	CA-CB-CG	7.42	127.26	113.90
1	C	201	ASP	CB-CA-C	-7.42	97.16	110.37
1	A	64	PRO	N-CA-CB	7.42	111.04	103.25
1	C	246	MET	CA-C-O	-7.42	109.90	120.51
1	A	285	ASP	O-C-N	7.41	132.45	122.59
1	B	71	GLN	CB-CG-CD	7.41	125.20	112.60
1	B	324	LEU	O-C-N	-7.41	114.28	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	307	ASP	CA-CB-CG	7.41	120.01	112.60
1	A	82	TYR	CA-C-N	7.41	135.69	121.54
1	A	82	TYR	C-N-CA	7.41	135.69	121.54
1	B	246	MET	CA-C-O	-7.41	109.92	120.51
1	C	427	TYR	CA-CB-CG	7.41	127.23	113.90
1	C	389	ASP	N-CA-C	7.41	123.17	107.70
1	A	389	ASP	N-CA-C	7.40	123.17	107.70
1	C	153	GLN	CB-CG-CD	7.39	125.17	112.60
1	A	246	MET	CA-C-O	-7.39	109.94	120.51
1	C	82	TYR	CA-C-N	7.39	135.66	121.54
1	C	82	TYR	C-N-CA	7.39	135.66	121.54
1	C	292	PHE	CA-C-N	7.39	135.27	121.97
1	C	292	PHE	C-N-CA	7.39	135.27	121.97
1	C	64	PRO	N-CA-CB	7.39	111.01	103.25
1	B	389	ASP	N-CA-C	7.39	123.14	107.70
1	B	82	TYR	CA-C-N	7.38	135.64	121.54
1	B	82	TYR	C-N-CA	7.38	135.64	121.54
1	B	205	ILE	CA-C-O	-7.38	112.64	120.39
1	A	49	LEU	O-C-N	-7.37	112.78	122.59
1	B	127	GLY	N-CA-C	7.37	120.11	111.63
1	C	49	LEU	O-C-N	-7.37	112.78	122.59
1	C	127	GLY	N-CA-C	7.37	120.11	111.63
1	A	153	GLN	CB-CG-CD	7.37	125.12	112.60
1	A	292	PHE	CA-C-N	7.36	135.22	121.97
1	A	292	PHE	C-N-CA	7.36	135.22	121.97
1	A	127	GLY	N-CA-C	7.36	120.09	111.63
1	B	153	GLN	CB-CG-CD	7.36	125.10	112.60
1	B	292	PHE	CA-C-N	7.36	135.21	121.97
1	B	292	PHE	C-N-CA	7.36	135.21	121.97
1	A	20	ALA	CA-C-O	-7.35	113.10	121.19
1	B	326	ILE	CB-CG1-CD1	7.35	129.24	113.80
1	A	205	ILE	CA-C-O	-7.35	112.68	120.39
1	B	49	LEU	O-C-N	-7.35	112.82	122.59
1	B	20	ALA	CA-C-O	-7.34	113.11	121.19
1	A	326	ILE	CB-CG1-CD1	7.34	129.21	113.80
1	C	326	ILE	CB-CG1-CD1	7.33	129.20	113.80
1	C	20	ALA	CA-C-O	-7.33	113.12	121.19
1	C	205	ILE	CA-C-O	-7.32	112.70	120.39
1	B	265	THR	O-C-N	-7.28	112.91	122.59
1	C	45	ILE	CA-CB-CG2	7.27	122.85	110.50
1	A	265	THR	O-C-N	-7.26	112.93	122.59
1	A	122	HIS	CA-C-N	-7.26	110.60	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	122	HIS	C-N-CA	-7.26	110.60	122.65
1	B	122	HIS	CA-C-N	-7.26	110.61	122.65
1	B	122	HIS	O-C-N	-7.26	114.95	123.22
1	B	122	HIS	C-N-CA	-7.26	110.61	122.65
1	B	346	ALA	CA-C-O	-7.26	110.13	120.51
1	C	122	HIS	CA-C-N	-7.26	110.60	122.65
1	C	122	HIS	C-N-CA	-7.26	110.60	122.65
1	B	45	ILE	CA-CB-CG2	7.25	122.82	110.50
1	A	346	ALA	CA-C-O	-7.25	110.14	120.51
1	A	45	ILE	CA-CB-CG2	7.25	122.82	110.50
1	C	346	ALA	CA-C-O	-7.25	110.15	120.51
1	C	181	ASP	N-CA-C	7.24	126.23	110.80
1	A	181	ASP	N-CA-C	7.23	126.21	110.80
1	C	122	HIS	O-C-N	-7.23	114.98	123.22
1	B	181	ASP	N-CA-C	7.23	126.19	110.80
1	C	265	THR	O-C-N	-7.23	112.98	122.59
1	B	265	THR	CA-CB-CG2	7.22	122.77	110.50
1	A	122	HIS	O-C-N	-7.21	115.00	123.22
1	A	265	THR	CA-CB-CG2	7.21	122.76	110.50
1	A	376	ASP	N-CA-C	7.21	120.80	107.60
1	B	143	GLN	CA-CB-CG	7.21	128.51	114.10
1	B	257	PRO	N-CA-C	7.20	123.77	113.47
1	C	265	THR	CA-CB-CG2	7.20	122.74	110.50
1	A	143	GLN	CA-CB-CG	7.19	128.49	114.10
1	A	257	PRO	N-CA-C	7.19	123.76	113.47
1	B	376	ASP	N-CA-C	7.19	120.76	107.60
1	C	143	GLN	CA-CB-CG	7.19	128.48	114.10
1	B	306	ASN	CA-CB-CG	7.19	119.79	112.60
1	B	452	VAL	N-CA-C	7.18	124.40	108.88
1	B	473	ILE	CA-CB-CG1	7.18	122.61	110.40
1	C	257	PRO	N-CA-C	7.18	123.74	113.47
1	C	405	VAL	N-CA-C	7.17	118.20	107.80
1	A	341	PRO	N-CA-C	7.17	127.24	112.47
1	C	252	TYR	N-CA-C	7.17	125.66	109.81
1	A	306	ASN	CA-CB-CG	7.17	119.77	112.60
1	A	405	VAL	N-CA-C	7.17	118.19	107.80
1	B	341	PRO	N-CA-C	7.17	127.23	112.47
1	C	341	PRO	N-CA-C	7.16	127.22	112.47
1	C	473	ILE	CA-CB-CG1	7.16	122.58	110.40
1	A	252	TYR	N-CA-C	7.16	125.64	109.81
1	A	452	VAL	N-CA-C	7.16	124.35	108.88
1	A	473	ILE	CA-CB-CG1	7.16	122.57	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	376	ASP	N-CA-C	7.16	120.70	107.60
1	C	452	VAL	N-CA-C	7.15	124.33	108.88
1	B	311	ALA	N-CA-C	7.15	118.77	110.97
1	C	311	ALA	N-CA-C	7.15	118.77	110.97
1	C	251	ASN	N-CA-C	-7.15	105.39	112.97
1	B	252	TYR	N-CA-C	7.15	125.61	109.81
1	C	198	TYR	CA-C-N	7.14	135.18	121.54
1	C	198	TYR	C-N-CA	7.14	135.18	121.54
1	C	314	VAL	N-CA-C	7.14	117.23	110.30
1	B	251	ASN	N-CA-C	-7.14	105.40	112.97
1	A	311	ALA	N-CA-C	7.13	118.75	110.97
1	B	198	TYR	CA-C-N	7.13	135.16	121.54
1	B	198	TYR	C-N-CA	7.13	135.16	121.54
1	A	198	TYR	CA-C-N	7.13	135.16	121.54
1	A	198	TYR	C-N-CA	7.13	135.16	121.54
1	A	251	ASN	N-CA-C	-7.13	105.41	112.97
1	B	405	VAL	N-CA-C	7.12	118.13	107.80
1	B	81	GLY	CA-C-N	7.12	132.82	123.00
1	B	81	GLY	C-N-CA	7.12	132.82	123.00
1	A	173	LEU	CA-C-N	7.11	128.73	119.84
1	A	173	LEU	C-N-CA	7.11	128.73	119.84
1	C	81	GLY	CA-C-N	7.11	132.81	123.00
1	C	81	GLY	C-N-CA	7.11	132.81	123.00
1	C	122	HIS	CA-CB-CG	7.11	120.91	113.80
1	A	113	TYR	N-CA-C	7.11	119.27	109.18
1	A	122	HIS	CA-CB-CG	7.10	120.90	113.80
1	C	113	TYR	N-CA-C	7.10	119.26	109.18
1	C	306	ASN	CA-CB-CG	7.09	119.69	112.60
1	A	314	VAL	N-CA-C	7.09	117.18	110.30
1	A	81	GLY	CA-C-N	7.09	132.78	123.00
1	A	81	GLY	C-N-CA	7.09	132.78	123.00
1	B	113	TYR	N-CA-C	7.09	119.25	109.18
1	C	57	PHE	N-CA-C	7.09	120.66	110.24
1	A	170	THR	CA-CB-CG2	-7.08	98.46	110.50
1	A	300	ARG	CB-CG-CD	7.08	127.57	111.30
1	B	170	THR	CA-CB-CG2	-7.08	98.47	110.50
1	B	173	LEU	CA-C-N	7.07	128.68	119.84
1	B	173	LEU	C-N-CA	7.07	128.68	119.84
1	C	300	ARG	CB-CG-CD	7.07	127.56	111.30
1	A	57	PHE	N-CA-C	7.07	120.63	110.24
1	C	173	LEU	CA-C-N	7.06	128.67	119.84
1	C	173	LEU	C-N-CA	7.06	128.67	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	57	PHE	N-CA-C	7.06	120.62	110.24
1	B	300	ARG	CB-CG-CD	7.06	127.53	111.30
1	B	314	VAL	N-CA-C	7.05	117.14	110.30
1	C	170	THR	CA-CB-CG2	-7.05	98.51	110.50
1	B	122	HIS	CA-CB-CG	7.05	120.85	113.80
1	C	435	GLU	CA-C-N	7.05	134.66	121.97
1	C	435	GLU	C-N-CA	7.05	134.66	121.97
1	B	206	ASP	CA-CB-CG	7.04	119.64	112.60
1	C	2	THR	CA-CB-CG2	7.04	122.47	110.50
1	A	435	GLU	CA-C-N	7.04	134.63	121.97
1	A	435	GLU	C-N-CA	7.04	134.63	121.97
1	A	2	THR	CA-CB-CG2	7.03	122.46	110.50
1	B	260	ASN	OD1-CG-ND2	7.03	129.63	122.60
1	B	473	ILE	CA-CB-CG2	7.03	122.45	110.50
1	A	124	GLY	N-CA-C	7.03	129.83	113.18
1	B	124	GLY	N-CA-C	7.03	129.84	113.18
1	C	124	GLY	N-CA-C	7.03	129.83	113.18
1	B	262	PHE	CA-C-O	-7.02	113.72	121.87
1	B	435	GLU	CA-C-N	7.02	134.61	121.97
1	B	435	GLU	C-N-CA	7.02	134.61	121.97
1	A	473	ILE	CA-CB-CG2	7.02	122.43	110.50
1	C	473	ILE	CA-CB-CG2	7.02	122.43	110.50
1	C	260	ASN	OD1-CG-ND2	7.01	129.61	122.60
1	B	2	THR	CA-CB-CG2	7.01	122.42	110.50
1	B	458	LEU	O-C-N	7.01	129.38	121.32
1	C	226	TYR	O-C-N	-7.01	113.27	122.59
1	A	266	SER	CA-CB-OG	-7.01	97.09	111.10
1	A	262	PHE	CA-C-O	-7.00	113.75	121.87
1	A	206	ASP	CA-CB-CG	7.00	119.60	112.60
1	C	262	PHE	CA-C-O	-7.00	113.75	121.87
1	B	266	SER	CA-CB-OG	-7.00	97.11	111.10
1	B	15	LEU	CA-C-O	-6.99	110.07	120.42
1	C	266	SER	CA-CB-OG	-6.98	97.13	111.10
1	A	260	ASN	OD1-CG-ND2	6.98	129.58	122.60
1	B	179	THR	N-CA-C	6.98	119.07	110.91
1	A	226	TYR	O-C-N	-6.97	113.32	122.59
1	B	45	ILE	N-CA-C	6.97	118.56	110.62
1	B	80	THR	O-C-N	6.96	131.85	122.59
1	A	179	THR	N-CA-C	6.96	119.06	110.91
1	C	206	ASP	CA-CB-CG	6.96	119.56	112.60
1	A	15	LEU	CA-C-O	-6.96	110.12	120.42
1	A	381	THR	O-C-N	6.96	131.85	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	19	PHE	CG-CD2-CE2	-6.96	108.88	120.70
1	C	179	THR	N-CA-C	6.95	119.04	110.91
1	C	45	ILE	N-CA-C	6.95	118.54	110.62
1	C	53	GLN	CB-CG-CD	6.95	124.41	112.60
1	A	19	PHE	CG-CD2-CE2	-6.94	108.89	120.70
1	A	45	ILE	N-CA-C	6.94	118.54	110.62
1	A	246	MET	N-CA-C	6.94	125.59	110.80
1	C	15	LEU	CA-C-O	-6.94	110.15	120.42
1	A	458	LEU	O-C-N	6.94	129.30	121.32
1	B	226	TYR	O-C-N	-6.94	113.36	122.59
1	B	246	MET	N-CA-C	6.94	125.58	110.80
1	A	53	GLN	CB-CG-CD	6.93	124.39	112.60
1	C	381	THR	O-C-N	6.93	131.81	122.59
1	B	19	PHE	CG-CD2-CE2	-6.92	108.93	120.70
1	C	246	MET	N-CA-C	6.92	125.53	110.80
1	B	381	THR	O-C-N	6.92	131.79	122.59
1	A	80	THR	O-C-N	6.92	131.79	122.59
1	C	410	ASN	CA-CB-CG	6.91	119.51	112.60
1	B	347	THR	CA-CB-OG1	6.91	119.96	109.60
1	C	138	LYS	CA-C-N	6.90	128.47	119.84
1	C	138	LYS	C-N-CA	6.90	128.47	119.84
1	B	53	GLN	CB-CG-CD	6.90	124.32	112.60
1	C	347	THR	CA-CB-OG1	6.89	119.94	109.60
1	A	347	THR	CA-CB-OG1	6.89	119.94	109.60
1	C	80	THR	O-C-N	6.89	131.76	122.59
1	C	458	LEU	O-C-N	6.89	129.25	121.32
1	B	347	THR	O-C-N	-6.89	113.43	122.59
1	B	42	TRP	CA-CB-CG	6.88	126.67	113.60
1	A	347	THR	O-C-N	-6.87	113.46	122.59
1	A	42	TRP	CA-CB-CG	6.87	126.64	113.60
1	A	410	ASN	CA-CB-CG	6.86	119.46	112.60
1	B	138	LYS	CA-C-N	6.86	128.41	119.84
1	B	138	LYS	C-N-CA	6.86	128.41	119.84
1	A	138	LYS	CA-C-N	6.85	128.41	119.84
1	A	138	LYS	C-N-CA	6.85	128.41	119.84
1	B	463	TYR	N-CA-CB	-6.85	97.14	109.68
1	C	334	HIS	CA-CB-CG	6.85	120.65	113.80
1	C	42	TRP	CA-CB-CG	6.85	126.61	113.60
1	B	410	ASN	CA-CB-CG	6.84	119.44	112.60
1	B	450	VAL	CA-C-N	6.84	128.39	119.84
1	B	450	VAL	C-N-CA	6.84	128.39	119.84
1	A	463	TYR	N-CA-CB	-6.83	97.19	109.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	411	LYS	CB-CG-CD	-6.83	95.59	111.30
1	A	52	ILE	CA-CB-CG2	6.83	122.10	110.50
1	B	52	ILE	CA-CB-CG2	6.83	122.10	110.50
1	A	450	VAL	CA-C-N	6.82	128.37	119.84
1	A	450	VAL	C-N-CA	6.82	128.37	119.84
1	C	347	THR	O-C-N	-6.82	113.52	122.59
1	A	411	LYS	CB-CG-CD	-6.82	95.61	111.30
1	C	463	TYR	N-CA-CB	-6.82	97.20	109.68
1	C	411	LYS	CB-CG-CD	-6.81	95.63	111.30
1	C	230	GLU	N-CA-C	6.81	121.92	112.45
1	C	115	MET	CG-SD-CE	-6.81	85.92	100.90
1	C	450	VAL	CA-C-N	6.80	128.35	119.84
1	C	450	VAL	C-N-CA	6.80	128.35	119.84
1	A	115	MET	CG-SD-CE	-6.80	85.94	100.90
1	C	52	ILE	CA-CB-CG2	6.80	122.06	110.50
1	A	334	HIS	CA-CB-CG	6.79	120.59	113.80
1	A	452	VAL	CA-CB-CG1	-6.79	98.85	110.40
1	B	346	ALA	CB-CA-C	-6.79	96.90	110.42
1	A	166	LEU	N-CA-C	6.79	119.76	108.96
1	B	452	VAL	CA-CB-CG1	-6.79	98.85	110.40
1	A	346	ALA	CB-CA-C	-6.79	96.91	110.42
1	B	96	THR	O-C-N	-6.79	113.56	122.59
1	C	110	ARG	NE-CZ-NH2	6.79	125.31	119.20
1	C	346	ALA	CB-CA-C	-6.79	96.92	110.42
1	A	230	GLU	N-CA-C	6.78	121.88	112.45
1	B	115	MET	CG-SD-CE	-6.78	85.98	100.90
1	C	166	LEU	N-CA-C	6.78	119.74	108.96
1	B	110	ARG	NE-CZ-NH2	6.78	125.30	119.20
1	B	166	LEU	N-CA-C	6.78	119.74	108.96
1	C	452	VAL	CA-CB-CG1	-6.77	98.89	110.40
1	A	110	ARG	NE-CZ-NH2	6.77	125.29	119.20
1	A	96	THR	O-C-N	-6.76	113.60	122.59
1	B	230	GLU	N-CA-C	6.76	121.84	112.45
1	C	240	CYS	CA-C-N	6.75	128.28	119.84
1	C	240	CYS	C-N-CA	6.75	128.28	119.84
1	B	240	CYS	CA-C-N	6.74	128.26	119.84
1	B	240	CYS	C-N-CA	6.74	128.26	119.84
1	A	240	CYS	CA-C-N	6.73	128.25	119.84
1	A	240	CYS	C-N-CA	6.73	128.25	119.84
1	C	96	THR	O-C-N	-6.73	113.64	122.59
1	B	334	HIS	CA-CB-CG	6.72	120.52	113.80
1	C	345	GLU	N-CA-CB	6.70	121.82	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	229	GLY	N-CA-C	-6.70	98.14	111.34
1	B	229	GLY	N-CA-C	-6.70	98.14	111.34
1	A	208	VAL	O-C-N	-6.70	114.72	121.96
1	B	345	GLU	N-CA-CB	6.70	121.81	110.49
1	B	208	VAL	O-C-N	-6.70	114.73	121.96
1	A	182	VAL	N-CA-C	6.69	123.25	109.34
1	A	345	GLU	N-CA-CB	6.69	121.79	110.49
1	C	208	VAL	O-C-N	-6.68	114.74	121.96
1	C	229	GLY	N-CA-C	-6.67	98.19	111.34
1	B	182	VAL	N-CA-C	6.67	123.22	109.34
1	C	182	VAL	N-CA-C	6.67	123.22	109.34
1	C	452	VAL	N-CA-CB	-6.66	101.88	111.21
1	C	95	GLY	CA-C-N	6.65	134.24	121.54
1	C	95	GLY	C-N-CA	6.65	134.24	121.54
1	C	446	SER	CA-C-N	6.65	133.99	122.09
1	C	446	SER	C-N-CA	6.65	133.99	122.09
1	A	277	ASN	N-CA-C	6.65	118.32	111.14
1	C	65	VAL	CB-CA-C	-6.65	100.39	111.29
1	A	452	VAL	N-CA-CB	-6.65	101.91	111.21
1	B	452	VAL	N-CA-CB	-6.64	101.91	111.21
1	C	3	PRO	N-CA-C	6.64	126.15	112.47
1	A	3	PRO	N-CA-C	6.63	126.14	112.47
1	A	446	SER	CA-C-N	6.63	133.96	122.09
1	A	446	SER	C-N-CA	6.63	133.96	122.09
1	A	95	GLY	CA-C-N	6.63	134.21	121.54
1	A	95	GLY	C-N-CA	6.63	134.21	121.54
1	B	277	ASN	N-CA-C	6.63	118.30	111.14
1	B	3	PRO	N-CA-C	6.63	126.12	112.47
1	B	431	GLN	N-CA-C	6.62	119.98	110.24
1	B	95	GLY	CA-C-N	6.62	134.19	121.54
1	B	95	GLY	C-N-CA	6.62	134.19	121.54
1	A	65	VAL	CB-CA-C	-6.62	100.44	111.29
1	B	446	SER	CA-C-N	6.62	133.94	122.09
1	B	446	SER	C-N-CA	6.62	133.94	122.09
1	C	277	ASN	N-CA-C	6.62	118.29	111.14
1	B	65	VAL	CB-CA-C	-6.60	100.46	111.29
1	C	55	MET	O-C-N	-6.60	113.48	122.33
1	A	55	MET	O-C-N	-6.60	113.49	122.33
1	B	55	MET	O-C-N	-6.59	113.49	122.33
1	A	387	ILE	CA-C-N	6.59	133.40	122.33
1	A	387	ILE	C-N-CA	6.59	133.40	122.33
1	C	19	PHE	CD1-CG-CD2	6.58	128.47	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	387	ILE	CA-C-N	6.58	133.39	122.33
1	C	387	ILE	C-N-CA	6.58	133.39	122.33
1	A	249	VAL	CA-C-N	-6.58	111.74	120.95
1	A	249	VAL	C-N-CA	-6.58	111.74	120.95
1	B	249	VAL	CA-C-N	-6.58	111.74	120.95
1	B	249	VAL	C-N-CA	-6.58	111.74	120.95
1	A	333	GLN	CA-CB-CG	6.57	127.25	114.10
1	B	192	GLY	O-C-N	-6.57	115.79	122.17
1	A	85	THR	N-CA-CB	-6.57	101.06	110.79
1	B	387	ILE	CA-C-N	6.57	133.37	122.33
1	B	387	ILE	C-N-CA	6.57	133.37	122.33
1	C	431	GLN	N-CA-C	6.57	119.90	110.24
1	A	19	PHE	CD1-CG-CD2	6.57	128.45	118.60
1	B	245	VAL	CA-CB-CG2	6.57	121.56	110.40
1	B	191	VAL	O-C-N	6.57	130.78	122.57
1	C	85	THR	N-CA-CB	-6.57	101.07	110.79
1	C	192	GLY	O-C-N	-6.57	115.80	122.17
1	A	431	GLN	N-CA-C	6.56	119.89	110.24
1	A	191	VAL	O-C-N	6.56	130.77	122.57
1	A	258	LEU	CA-C-O	-6.56	113.54	120.63
1	B	333	GLN	CA-CB-CG	6.56	127.22	114.10
1	C	249	VAL	CA-C-N	-6.56	111.77	120.95
1	C	249	VAL	C-N-CA	-6.56	111.77	120.95
1	B	258	LEU	CA-C-O	-6.55	113.55	120.63
1	C	333	GLN	CA-CB-CG	6.55	127.20	114.10
1	C	189	ASP	CA-CB-CG	6.55	119.15	112.60
1	B	19	PHE	CD1-CG-CD2	6.55	128.42	118.60
1	C	258	LEU	CA-C-O	-6.54	113.56	120.63
1	B	85	THR	N-CA-CB	-6.54	101.11	110.79
1	C	333	GLN	CB-CG-CD	6.54	123.72	112.60
1	C	231	VAL	CA-C-O	6.54	128.95	120.78
1	A	192	GLY	O-C-N	-6.54	115.83	122.17
1	C	191	VAL	O-C-N	6.53	130.74	122.57
1	A	245	VAL	CA-CB-CG2	6.53	121.50	110.40
1	C	245	VAL	CA-CB-CG2	6.53	121.50	110.40
1	A	231	VAL	CA-C-O	6.53	128.94	120.78
1	A	333	GLN	CB-CG-CD	6.53	123.69	112.60
1	A	32	THR	N-CA-C	6.52	124.70	110.80
1	C	285	ASP	CA-CB-CG	6.52	119.12	112.60
1	B	333	GLN	CB-CG-CD	6.52	123.69	112.60
1	B	32	THR	N-CA-C	6.52	124.69	110.80
1	A	285	ASP	CA-CB-CG	6.52	119.12	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	196	SER	CA-CB-OG	6.51	124.12	111.10
1	B	385	PRO	CB-CA-C	-6.51	103.50	111.11
1	C	32	THR	N-CA-C	6.51	124.67	110.80
1	A	189	ASP	CA-CB-CG	6.50	119.10	112.60
1	A	385	PRO	CB-CA-C	-6.50	103.50	111.11
1	B	35	GLN	OE1-CD-NE2	-6.50	116.10	122.60
1	C	96	THR	N-CA-C	6.50	124.65	110.80
1	C	112	MET	CA-CB-CG	6.50	127.11	114.10
1	A	196	SER	CA-CB-OG	6.50	124.10	111.10
1	B	112	MET	CA-CB-CG	6.50	127.10	114.10
1	B	189	ASP	CA-CB-CG	6.50	119.10	112.60
1	C	196	SER	CA-CB-OG	6.50	124.09	111.10
1	A	112	MET	CA-CB-CG	6.49	127.09	114.10
1	A	86	ASP	CA-C-O	-6.49	111.23	120.51
1	B	231	VAL	CA-C-O	6.49	128.89	120.78
1	A	96	THR	N-CA-C	6.49	124.62	110.80
1	B	86	ASP	CA-C-O	-6.48	111.25	120.51
1	B	96	THR	N-CA-C	6.48	124.60	110.80
1	B	285	ASP	CA-CB-CG	6.48	119.08	112.60
1	C	296	HIS	CA-CB-CG	6.48	120.28	113.80
1	B	216	TRP	CH2-CZ2-CE2	6.47	125.91	117.50
1	A	35	GLN	OE1-CD-NE2	-6.47	116.13	122.60
1	B	60	ILE	CA-C-N	-6.47	114.44	122.84
1	B	60	ILE	C-N-CA	-6.47	114.44	122.84
1	A	60	ILE	CA-C-N	-6.46	114.44	122.84
1	A	60	ILE	C-N-CA	-6.46	114.44	122.84
1	A	60	ILE	N-CA-C	6.46	116.72	106.32
1	C	385	PRO	CB-CA-C	-6.46	103.55	111.11
1	C	60	ILE	N-CA-C	6.45	116.71	106.32
1	C	256	TYR	O-C-N	-6.45	113.90	121.32
1	B	411	LYS	N-CA-CB	-6.45	100.79	110.60
1	B	319	ILE	CA-CB-CG2	6.45	121.46	110.50
1	C	60	ILE	CA-C-N	-6.45	114.46	122.84
1	C	60	ILE	C-N-CA	-6.45	114.46	122.84
1	B	296	HIS	CA-CB-CG	6.44	120.24	113.80
1	A	296	HIS	CA-CB-CG	6.44	120.24	113.80
1	A	256	TYR	O-C-N	-6.44	113.92	121.32
1	A	319	ILE	CA-CB-CG2	6.43	121.44	110.50
1	C	86	ASP	CA-C-O	-6.43	111.31	120.51
1	A	216	TRP	CH2-CZ2-CE2	6.43	125.86	117.50
1	B	60	ILE	N-CA-C	6.43	116.68	106.32
1	A	411	LYS	N-CA-CB	-6.43	100.83	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	459	PRO	CA-N-CD	-6.43	102.50	111.50
1	C	319	ILE	CA-CB-CG2	6.43	121.42	110.50
1	B	398	GLY	N-CA-C	6.42	128.41	113.18
1	A	398	GLY	N-CA-C	6.42	128.40	113.18
1	B	357	GLU	N-CA-C	6.42	117.97	110.97
1	C	459	PRO	CA-N-CD	-6.42	102.51	111.50
1	C	398	GLY	N-CA-C	6.42	128.38	113.18
1	C	411	LYS	N-CA-CB	-6.41	100.86	110.60
1	C	216	TRP	CH2-CZ2-CE2	6.41	125.83	117.50
1	C	432	GLN	N-CA-CB	-6.41	99.98	110.42
1	B	459	PRO	CA-N-CD	-6.40	102.54	111.50
1	B	256	TYR	O-C-N	-6.40	113.96	121.32
1	A	432	GLN	N-CA-CB	-6.38	100.02	110.42
1	A	439	CYS	CA-C-O	-6.38	111.39	120.51
1	C	35	GLN	OE1-CD-NE2	-6.38	116.22	122.60
1	B	439	CYS	CA-C-O	-6.37	111.39	120.51
1	B	87	ILE	CA-CB-CG2	6.37	121.33	110.50
1	B	432	GLN	N-CA-CB	-6.37	100.05	110.42
1	C	439	CYS	CA-C-O	-6.36	111.42	120.51
1	A	87	ILE	CA-CB-CG2	6.36	121.31	110.50
1	C	161	VAL	N-CA-C	6.36	122.56	109.34
1	A	357	GLU	N-CA-C	6.35	117.90	110.97
1	C	87	ILE	CA-CB-CG2	6.35	121.30	110.50
1	A	161	VAL	N-CA-C	6.35	122.55	109.34
1	B	161	VAL	N-CA-C	6.35	122.54	109.34
1	B	58	THR	O-C-N	-6.33	114.43	122.34
1	C	357	GLU	N-CA-C	6.32	117.86	110.97
1	A	58	THR	O-C-N	-6.32	114.44	122.34
1	C	58	THR	O-C-N	-6.30	114.46	122.34
1	C	55	MET	CB-CG-SD	6.30	131.60	112.70
1	B	55	MET	CB-CG-SD	6.29	131.58	112.70
1	A	55	MET	CB-CG-SD	6.29	131.56	112.70
1	B	447	ASP	CA-CB-CG	6.28	118.88	112.60
1	C	66	THR	CB-CA-C	-6.27	97.94	110.42
1	A	447	ASP	CA-CB-CG	6.27	118.87	112.60
1	B	66	THR	CB-CA-C	-6.27	97.95	110.42
1	A	66	THR	CB-CA-C	-6.26	97.95	110.42
1	C	19	PHE	CG-CD1-CE1	-6.26	110.05	120.70
1	C	187	TRP	CA-C-N	6.26	129.50	120.79
1	C	187	TRP	C-N-CA	6.26	129.50	120.79
1	A	19	PHE	CG-CD1-CE1	-6.26	110.06	120.70
1	C	447	ASP	CA-CB-CG	6.26	118.86	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	35	GLN	CB-CG-CD	6.25	123.23	112.60
1	B	35	GLN	CB-CG-CD	6.25	123.22	112.60
1	C	35	GLN	CB-CG-CD	6.25	123.22	112.60
1	B	19	PHE	CG-CD1-CE1	-6.24	110.09	120.70
1	C	166	LEU	CB-CA-C	6.24	120.65	110.22
1	B	187	TRP	CA-C-N	6.24	129.46	120.79
1	B	187	TRP	C-N-CA	6.24	129.46	120.79
1	A	166	LEU	CB-CA-C	6.24	120.64	110.22
1	A	187	TRP	CA-C-N	6.23	129.45	120.79
1	A	187	TRP	C-N-CA	6.23	129.45	120.79
1	B	166	LEU	CB-CA-C	6.22	120.61	110.22
1	B	211	VAL	CA-CB-CG2	6.22	120.97	110.40
1	B	215	PHE	N-CA-C	6.22	117.72	111.07
1	A	215	PHE	N-CA-C	6.20	117.71	111.07
1	A	211	VAL	CA-CB-CG2	6.19	120.92	110.40
1	C	211	VAL	CA-CB-CG2	6.19	120.92	110.40
1	B	41	THR	N-CA-C	6.18	123.97	110.80
1	A	41	THR	N-CA-C	6.18	123.96	110.80
1	B	46	ILE	CA-C-N	6.18	132.88	121.52
1	B	46	ILE	C-N-CA	6.18	132.88	121.52
1	A	335	TYR	CA-CB-CG	6.17	125.01	113.90
1	C	41	THR	N-CA-C	6.17	123.94	110.80
1	C	215	PHE	N-CA-C	6.17	117.67	111.07
1	C	335	TYR	CA-CB-CG	6.17	125.00	113.90
1	C	46	ILE	CA-C-N	6.16	132.86	121.52
1	C	46	ILE	C-N-CA	6.16	132.86	121.52
1	B	335	TYR	CA-CB-CG	6.16	124.99	113.90
1	C	89	SER	CA-C-O	-6.16	111.70	120.51
1	A	46	ILE	CA-C-N	6.16	132.85	121.52
1	A	46	ILE	C-N-CA	6.16	132.85	121.52
1	A	305	THR	N-CA-C	6.15	118.67	109.25
1	B	305	THR	N-CA-C	6.15	118.66	109.25
1	A	89	SER	CA-C-O	-6.14	111.73	120.51
1	B	465	THR	N-CA-CB	-6.14	99.62	110.42
1	A	465	THR	N-CA-CB	-6.12	99.64	110.42
1	C	263	LYS	CG-CD-CE	6.12	125.38	111.30
1	C	305	THR	N-CA-C	6.12	118.62	109.25
1	C	465	THR	N-CA-CB	-6.12	99.65	110.42
1	C	196	SER	N-CA-CB	-6.12	100.15	110.49
1	A	196	SER	N-CA-CB	-6.12	100.15	110.49
1	B	89	SER	CA-C-O	-6.12	111.76	120.51
1	A	263	LYS	CG-CD-CE	6.11	125.36	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	428	THR	N-CA-C	6.11	118.75	107.99
1	B	196	SER	N-CA-CB	-6.11	100.17	110.49
1	C	428	THR	N-CA-C	6.10	118.72	107.99
1	A	340	ASP	CA-CB-CG	6.09	118.69	112.60
1	C	57	PHE	CA-CB-CG	6.09	119.89	113.80
1	B	263	LYS	CG-CD-CE	6.09	125.30	111.30
1	A	405	VAL	N-CA-CB	-6.08	103.80	111.46
1	A	428	THR	N-CA-C	6.08	118.70	107.99
1	C	340	ASP	CA-CB-CG	6.08	118.68	112.60
1	C	405	VAL	N-CA-CB	-6.08	103.80	111.46
1	C	327	ILE	CA-CB-CG2	-6.08	100.17	110.50
1	C	23	ASP	N-CA-C	6.08	120.16	112.87
1	C	104	SER	CB-CA-C	-6.08	98.33	110.42
1	B	85	THR	CA-C-O	6.07	130.61	120.65
1	B	471	SER	N-CA-C	6.07	123.73	110.80
1	A	369	ARG	CA-C-N	6.07	128.73	120.54
1	A	369	ARG	C-N-CA	6.07	128.73	120.54
1	C	262	PHE	CA-CB-CG	6.07	119.87	113.80
1	B	327	ILE	CA-CB-CG2	-6.06	100.19	110.50
1	A	23	ASP	N-CA-C	6.06	120.14	112.87
1	A	104	SER	CB-CA-C	-6.06	98.36	110.42
1	B	104	SER	CB-CA-C	-6.06	98.36	110.42
1	C	471	SER	N-CA-C	6.06	123.71	110.80
1	A	37	TYR	N-CA-C	6.06	119.39	110.30
1	A	327	ILE	CA-CB-CG2	-6.06	100.20	110.50
1	C	85	THR	CA-C-O	6.06	130.59	120.65
1	A	262	PHE	CA-CB-CG	6.06	119.86	113.80
1	A	85	THR	CA-C-O	6.06	130.59	120.65
1	A	471	SER	N-CA-C	6.06	123.70	110.80
1	B	262	PHE	CA-CB-CG	6.06	119.86	113.80
1	B	318	ILE	CG1-CB-CG2	-6.06	92.53	110.70
1	B	405	VAL	N-CA-CB	-6.05	103.83	111.46
1	C	37	TYR	N-CA-C	6.05	119.38	110.30
1	A	139	PRO	CA-C-N	6.05	132.27	122.53
1	A	139	PRO	C-N-CA	6.05	132.27	122.53
1	B	23	ASP	N-CA-C	6.05	120.13	112.87
1	C	14	LEU	N-CA-C	6.05	118.61	109.41
1	A	57	PHE	CA-CB-CG	6.05	119.85	113.80
1	B	6	TRP	CA-C-N	6.05	133.09	121.54
1	B	6	TRP	C-N-CA	6.05	133.09	121.54
1	B	14	LEU	N-CA-C	6.05	118.60	109.41
1	C	139	PRO	CA-C-N	6.04	132.26	122.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	139	PRO	C-N-CA	6.04	132.26	122.53
1	A	318	ILE	CG1-CB-CG2	-6.04	92.57	110.70
1	C	369	ARG	CA-C-N	6.04	128.69	120.54
1	C	369	ARG	C-N-CA	6.04	128.69	120.54
1	B	37	TYR	N-CA-C	6.04	119.36	110.30
1	B	340	ASP	CA-CB-CG	6.04	118.64	112.60
1	C	471	SER	N-CA-CB	-6.04	100.28	110.49
1	A	6	TRP	CA-C-N	6.04	133.07	121.54
1	A	6	TRP	C-N-CA	6.04	133.07	121.54
1	B	57	PHE	CA-CB-CG	6.04	119.84	113.80
1	C	318	ILE	CG1-CB-CG2	-6.04	92.59	110.70
1	B	139	PRO	CA-C-N	6.03	132.24	122.53
1	B	139	PRO	C-N-CA	6.03	132.24	122.53
1	C	198	TYR	N-CA-CB	6.03	120.69	110.49
1	A	14	LEU	N-CA-C	6.03	118.58	109.41
1	C	6	TRP	CA-C-N	6.03	133.06	121.54
1	C	6	TRP	C-N-CA	6.03	133.06	121.54
1	C	395	MET	CA-C-O	-6.03	114.38	121.44
1	B	471	SER	N-CA-CB	-6.03	100.31	110.49
1	C	291	THR	N-CA-C	6.03	118.66	107.99
1	A	471	SER	N-CA-CB	-6.02	100.31	110.49
1	A	198	TYR	N-CA-CB	6.02	120.67	110.49
1	B	369	ARG	CA-C-N	6.02	128.67	120.54
1	B	369	ARG	C-N-CA	6.02	128.67	120.54
1	C	392	THR	CA-CB-CG2	6.02	120.73	110.50
1	B	198	TYR	N-CA-CB	6.01	120.66	110.49
1	B	291	THR	N-CA-C	6.01	118.63	107.99
1	A	291	THR	N-CA-C	6.01	118.63	107.99
1	A	392	THR	CA-CB-CG2	6.00	120.70	110.50
1	C	271	ASP	CA-CB-CG	6.00	118.60	112.60
1	A	395	MET	CA-C-O	-5.99	114.43	121.44
1	B	395	MET	CA-C-O	-5.99	114.43	121.44
1	B	232	LEU	N-CA-C	5.99	118.58	109.95
1	A	416	ASP	CA-CB-CG	5.99	118.59	112.60
1	C	416	ASP	CA-CB-CG	5.99	118.58	112.60
1	B	392	THR	CA-CB-CG2	5.98	120.67	110.50
1	B	416	ASP	CA-CB-CG	5.98	118.58	112.60
1	A	232	LEU	N-CA-C	5.98	118.56	109.95
1	C	409	SER	N-CA-C	5.97	118.64	108.90
1	B	234	GLY	N-CA-C	5.96	127.31	113.18
1	C	234	GLY	N-CA-C	5.96	127.31	113.18
1	B	255	TYR	O-C-N	5.96	128.53	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	169	ASN	N-CA-C	5.96	123.49	110.80
1	B	409	SER	N-CA-C	5.96	118.61	108.90
1	C	232	LEU	N-CA-C	5.96	118.53	109.95
1	A	271	ASP	CA-CB-CG	5.96	118.56	112.60
1	A	381	THR	CA-C-O	-5.96	111.99	120.51
1	A	409	SER	N-CA-C	5.96	118.61	108.90
1	B	383	LYS	N-CA-CB	-5.95	100.43	110.49
1	A	234	GLY	N-CA-C	5.95	127.28	113.18
1	C	169	ASN	N-CA-C	5.95	123.47	110.80
1	A	255	TYR	O-C-N	5.95	128.51	122.09
1	B	67	ALA	O-C-N	5.95	130.50	122.59
1	A	383	LYS	N-CA-CB	-5.94	100.45	110.49
1	A	169	ASN	N-CA-C	5.94	123.45	110.80
1	C	383	LYS	N-CA-CB	-5.93	100.46	110.49
1	C	67	ALA	O-C-N	5.93	130.48	122.59
1	A	67	ALA	O-C-N	5.92	130.47	122.59
1	B	271	ASP	CA-CB-CG	5.92	118.52	112.60
1	C	381	THR	CA-C-O	-5.92	112.04	120.51
1	B	381	THR	CA-C-O	-5.92	112.04	120.51
1	A	279	VAL	CA-C-N	5.91	132.83	121.54
1	A	279	VAL	C-N-CA	5.91	132.83	121.54
1	B	279	VAL	CA-C-N	5.91	132.83	121.54
1	B	279	VAL	C-N-CA	5.91	132.83	121.54
1	B	465	THR	N-CA-C	5.91	120.22	113.19
1	C	230	GLU	CB-CA-C	-5.90	98.96	110.11
1	B	408	LEU	O-C-N	-5.90	115.70	123.13
1	B	458	LEU	CB-CA-C	-5.90	98.55	110.17
1	C	465	THR	CA-C-N	5.89	132.12	121.92
1	C	465	THR	C-N-CA	5.89	132.12	121.92
1	C	365	ALA	O-C-N	-5.89	115.72	122.09
1	B	465	THR	CA-C-N	5.89	132.11	121.92
1	B	465	THR	C-N-CA	5.89	132.11	121.92
1	C	255	TYR	O-C-N	5.89	128.45	122.09
1	A	458	LEU	CB-CA-C	-5.89	98.57	110.17
1	C	279	VAL	CA-C-N	5.89	132.78	121.54
1	C	279	VAL	C-N-CA	5.89	132.78	121.54
1	C	408	LEU	O-C-N	-5.88	115.72	123.13
1	B	340	ASP	CA-C-O	-5.88	112.10	120.16
1	C	68	GLN	N-CA-C	5.88	123.33	110.80
1	B	439	CYS	O-C-N	5.88	130.41	122.59
1	B	365	ALA	O-C-N	-5.88	115.74	122.09
1	A	292	PHE	CA-CB-CG	5.88	119.68	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	465	THR	CA-C-N	5.88	132.09	121.92
1	A	465	THR	C-N-CA	5.88	132.09	121.92
1	A	307	ASP	N-CA-C	5.87	118.01	108.26
1	B	307	ASP	N-CA-C	5.87	118.01	108.26
1	A	230	GLU	CB-CA-C	-5.87	99.01	110.11
1	A	340	ASP	CA-C-O	-5.87	112.12	120.16
1	A	465	THR	N-CA-C	5.87	120.18	113.19
1	B	292	PHE	CA-CB-CG	5.87	119.67	113.80
1	A	439	CYS	O-C-N	5.87	130.39	122.59
1	C	439	CYS	O-C-N	5.87	130.39	122.59
1	C	458	LEU	CB-CA-C	-5.87	98.61	110.17
1	C	385	PRO	N-CA-CB	5.86	108.23	103.36
1	A	365	ALA	O-C-N	-5.86	115.76	122.09
1	B	68	GLN	O-C-N	-5.86	114.80	122.59
1	C	307	ASP	N-CA-C	5.86	117.98	108.26
1	B	101	LYS	N-CA-C	-5.86	104.90	111.28
1	C	292	PHE	CA-CB-CG	5.86	119.66	113.80
1	A	68	GLN	N-CA-C	5.85	123.26	110.80
1	C	340	ASP	CA-C-O	-5.85	112.15	120.16
1	A	408	LEU	O-C-N	-5.85	115.76	123.13
1	A	191	VAL	CA-CB-CG2	5.84	120.33	110.40
1	B	191	VAL	CA-CB-CG2	5.84	120.33	110.40
1	C	101	LYS	N-CA-C	-5.84	104.91	111.28
1	B	230	GLU	CB-CA-C	-5.84	99.07	110.11
1	B	68	GLN	N-CA-C	5.84	123.23	110.80
1	C	465	THR	N-CA-C	5.84	120.14	113.19
1	A	68	GLN	O-C-N	-5.83	114.83	122.59
1	A	101	LYS	N-CA-C	-5.83	104.93	111.28
1	C	85	THR	CB-CA-C	5.82	119.23	111.14
1	A	385	PRO	N-CA-CB	5.82	108.19	103.36
1	B	385	PRO	N-CA-CB	5.82	108.19	103.36
1	C	191	VAL	CA-CB-CG2	5.82	120.30	110.40
1	A	85	THR	CB-CA-C	5.81	119.22	111.14
1	B	435	GLU	CB-CA-C	-5.80	101.69	110.92
1	B	459	PRO	CA-C-N	5.80	132.62	121.54
1	B	459	PRO	C-N-CA	5.80	132.62	121.54
1	B	2	THR	OG1-CB-CG2	5.80	120.90	109.30
1	C	82	TYR	O-C-N	5.80	130.13	123.29
1	B	314	VAL	CA-C-O	-5.80	115.09	121.29
1	B	85	THR	CB-CA-C	5.79	119.19	111.14
1	B	171	VAL	N-CA-CB	-5.79	101.67	111.23
1	C	435	GLU	CB-CA-C	-5.79	101.71	110.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	314	VAL	CA-C-O	-5.79	115.09	121.29
1	C	68	GLN	O-C-N	-5.79	114.89	122.59
1	C	2	THR	OG1-CB-CG2	5.79	120.87	109.30
1	A	2	THR	OG1-CB-CG2	5.78	120.87	109.30
1	A	103	LEU	CB-CG-CD2	-5.78	93.35	110.70
1	A	435	GLU	CB-CA-C	-5.78	101.73	110.92
1	B	103	LEU	CB-CG-CD2	-5.78	93.36	110.70
1	C	459	PRO	CA-C-N	5.78	132.58	121.54
1	C	459	PRO	C-N-CA	5.78	132.58	121.54
1	A	459	PRO	CA-C-N	5.77	132.57	121.54
1	A	459	PRO	C-N-CA	5.77	132.57	121.54
1	A	82	TYR	O-C-N	5.77	130.10	123.29
1	B	82	TYR	O-C-N	5.77	130.10	123.29
1	C	103	LEU	CB-CG-CD2	-5.77	93.39	110.70
1	A	314	VAL	CA-C-O	-5.77	115.12	121.29
1	C	171	VAL	N-CA-CB	-5.76	101.72	111.23
1	A	181	ASP	N-CA-CB	-5.76	100.76	110.49
1	C	47	ASP	CA-C-O	5.76	126.34	119.60
1	A	171	VAL	N-CA-CB	-5.76	101.73	111.23
1	B	181	ASP	N-CA-CB	-5.75	100.77	110.49
1	A	47	ASP	CA-C-O	5.75	126.33	119.60
1	C	418	TYR	N-CA-C	5.75	118.95	107.62
1	B	139	PRO	N-CA-C	5.75	124.31	112.47
1	B	191	VAL	CG1-CB-CG2	-5.74	98.16	110.80
1	B	432	GLN	CB-CG-CD	5.74	122.36	112.60
1	A	191	VAL	CG1-CB-CG2	-5.74	98.17	110.80
1	A	432	GLN	CB-CG-CD	5.74	122.35	112.60
1	B	228	ILE	N-CA-CB	-5.73	104.76	112.10
1	A	418	TYR	N-CA-C	5.73	118.91	107.62
1	C	191	VAL	CG1-CB-CG2	-5.73	98.19	110.80
1	C	181	ASP	N-CA-CB	-5.73	100.81	110.49
1	A	139	PRO	N-CA-C	5.73	124.27	112.47
1	B	47	ASP	CA-C-O	5.73	126.30	119.60
1	B	123	MET	N-CA-C	5.73	119.35	112.93
1	B	418	TYR	N-CA-C	5.72	118.90	107.62
1	C	432	GLN	CB-CG-CD	5.72	122.33	112.60
1	B	230	GLU	N-CA-CB	5.72	118.78	110.26
1	C	139	PRO	N-CA-C	5.71	124.24	112.47
1	A	230	GLU	N-CA-CB	5.71	118.77	110.26
1	A	228	ILE	N-CA-CB	-5.71	104.80	112.10
1	A	386	TYR	O-C-N	5.71	130.34	122.46
1	C	230	GLU	N-CA-CB	5.71	118.76	110.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	452	VAL	CG1-CB-CG2	5.70	123.35	110.80
1	B	386	TYR	O-C-N	5.70	130.32	122.46
1	C	452	VAL	CG1-CB-CG2	5.70	123.34	110.80
1	C	396	ARG	CA-CB-CG	-5.70	102.71	114.10
1	B	396	ARG	CA-CB-CG	-5.70	102.71	114.10
1	A	452	VAL	CG1-CB-CG2	5.69	123.33	110.80
1	C	386	TYR	O-C-N	5.69	130.32	122.46
1	C	397	LYS	CA-C-O	-5.69	114.11	120.66
1	B	397	LYS	CA-C-O	-5.69	114.12	120.66
1	C	228	ILE	CB-CA-C	-5.69	103.96	110.73
1	A	397	LYS	CA-C-O	-5.68	114.12	120.66
1	A	27	THR	N-CA-C	5.68	119.91	112.92
1	A	396	ARG	CA-CB-CG	-5.68	102.74	114.10
1	B	362	ILE	N-CA-CB	-5.68	104.43	110.62
1	B	27	THR	N-CA-C	5.68	119.90	112.92
1	A	140	PHE	N-CA-C	-5.67	100.86	108.86
1	A	257	PRO	CB-CA-C	-5.67	104.05	113.06
1	A	117	ASP	CA-CB-CG	-5.67	106.93	112.60
1	B	329	ALA	N-CA-C	5.67	122.87	110.80
1	A	123	MET	N-CA-C	5.67	119.28	112.93
1	A	84	GLN	O-C-N	-5.66	115.06	122.59
1	B	228	ILE	CB-CA-C	-5.66	103.99	110.73
1	B	439	CYS	CA-CB-SG	-5.66	101.38	114.40
1	C	257	PRO	CB-CA-C	-5.66	104.06	113.06
1	C	228	ILE	N-CA-CB	-5.66	104.86	112.10
1	B	295	ASN	CA-C-O	-5.66	112.42	120.51
1	B	140	PHE	N-CA-C	-5.66	100.89	108.86
1	B	436	VAL	CA-C-O	-5.66	113.71	120.78
1	A	439	CYS	CA-CB-SG	-5.65	101.40	114.40
1	B	117	ASP	CA-CB-CG	-5.65	106.95	112.60
1	B	257	PRO	CB-CA-C	-5.65	104.07	113.06
1	B	343	ASN	O-C-N	5.65	129.32	122.48
1	C	84	GLN	O-C-N	-5.65	115.07	122.59
1	C	140	PHE	N-CA-C	-5.65	100.89	108.86
1	C	439	CYS	CA-CB-SG	-5.65	101.40	114.40
1	A	329	ALA	N-CA-C	5.65	122.83	110.80
1	B	147	HIS	CA-C-N	5.65	126.90	119.84
1	B	147	HIS	C-N-CA	5.65	126.90	119.84
1	A	147	HIS	CA-C-N	5.64	126.89	119.84
1	A	147	HIS	C-N-CA	5.64	126.89	119.84
1	B	84	GLN	O-C-N	-5.64	115.09	122.59
1	C	27	THR	N-CA-C	5.64	119.86	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	339	ASN	O-C-N	5.64	130.09	122.59
1	B	148	PRO	CA-N-CD	-5.64	104.11	112.00
1	C	147	HIS	CA-C-N	5.64	126.89	119.84
1	C	147	HIS	C-N-CA	5.64	126.89	119.84
1	C	423	SER	N-CA-C	5.64	122.81	110.80
1	C	186	GLU	CA-CB-CG	5.63	125.37	114.10
1	C	329	ALA	N-CA-C	5.63	122.80	110.80
1	A	228	ILE	CB-CA-C	-5.63	104.03	110.73
1	A	191	VAL	N-CA-C	5.63	121.05	109.34
1	C	436	VAL	CA-C-O	-5.63	113.74	120.78
1	A	436	VAL	CA-C-O	-5.63	113.75	120.78
1	A	423	SER	N-CA-C	5.63	122.78	110.80
1	B	191	VAL	N-CA-C	5.63	121.04	109.34
1	B	423	SER	N-CA-C	5.63	122.79	110.80
1	C	67	ALA	CB-CA-C	-5.63	99.22	110.42
1	A	295	ASN	CA-C-O	-5.62	112.47	120.51
1	C	191	VAL	N-CA-C	5.62	121.03	109.34
1	B	186	GLU	CA-CB-CG	5.62	125.34	114.10
1	C	376	ASP	O-C-N	-5.62	111.15	122.22
1	A	67	ALA	CB-CA-C	-5.62	99.24	110.42
1	C	43	GLN	CB-CG-CD	5.62	122.15	112.60
1	C	99	ASP	CB-CA-C	-5.62	99.25	110.42
1	C	397	LYS	O-C-N	-5.62	116.42	123.27
1	A	99	ASP	CB-CA-C	-5.61	99.25	110.42
1	A	186	GLU	CA-CB-CG	5.61	125.33	114.10
1	A	376	ASP	O-C-N	-5.61	111.16	122.22
1	B	99	ASP	CB-CA-C	-5.61	99.25	110.42
1	C	117	ASP	CA-CB-CG	-5.61	106.99	112.60
1	C	123	MET	N-CA-C	5.61	119.22	112.93
1	A	362	ILE	N-CA-CB	-5.61	104.50	110.62
1	B	67	ALA	CB-CA-C	-5.61	99.26	110.42
1	B	376	ASP	O-C-N	-5.61	111.17	122.22
1	A	148	PRO	CA-N-CD	-5.61	104.15	112.00
1	A	339	ASN	O-C-N	5.61	130.04	122.59
1	C	377	THR	CA-CB-CG2	5.61	120.03	110.50
1	A	343	ASN	O-C-N	5.60	129.26	122.48
1	A	377	THR	CA-CB-CG2	5.60	120.01	110.50
1	A	397	LYS	O-C-N	-5.60	116.44	123.27
1	C	362	ILE	N-CA-CB	-5.60	104.52	110.62
1	B	377	THR	CA-CB-CG2	5.59	120.01	110.50
1	A	43	GLN	CB-CG-CD	5.59	122.11	112.60
1	B	286	SER	N-CA-CB	-5.59	103.74	112.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	295	ASN	CA-C-O	-5.59	112.52	120.51
1	B	339	ASN	O-C-N	5.58	130.01	122.59
1	C	207	THR	O-C-N	5.58	130.01	122.59
1	A	286	SER	N-CA-CB	-5.58	103.76	112.41
1	B	397	LYS	O-C-N	-5.58	116.46	123.27
1	C	343	ASN	O-C-N	5.58	129.23	122.48
1	A	109	GLU	CA-C-N	5.58	128.02	120.38
1	A	109	GLU	C-N-CA	5.58	128.02	120.38
1	B	43	GLN	CB-CG-CD	5.58	122.08	112.60
1	B	344	ARG	CA-C-O	-5.58	112.53	120.51
1	B	176	LEU	CA-C-O	-5.57	114.70	121.28
1	C	109	GLU	CA-C-N	5.57	128.01	120.38
1	C	109	GLU	C-N-CA	5.57	128.01	120.38
1	C	148	PRO	CA-N-CD	-5.57	104.21	112.00
1	A	472	LYS	CA-C-O	-5.57	112.55	120.51
1	A	81	GLY	N-CA-C	-5.56	100.00	113.18
1	B	81	GLY	N-CA-C	-5.56	100.00	113.18
1	A	175	ASP	CA-CB-CG	-5.56	107.04	112.60
1	B	109	GLU	CA-C-N	5.56	128.00	120.38
1	B	109	GLU	C-N-CA	5.56	128.00	120.38
1	A	207	THR	O-C-N	5.56	129.98	122.59
1	B	472	LYS	CA-C-O	-5.56	112.56	120.51
1	C	153	GLN	CA-C-O	-5.56	114.77	120.99
1	B	21	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
1	C	81	GLY	N-CA-C	-5.55	100.02	113.18
1	C	344	ARG	CA-C-O	-5.55	112.57	120.51
1	C	472	LYS	CA-C-O	-5.55	112.57	120.51
1	C	175	ASP	CA-CB-CG	-5.55	107.05	112.60
1	B	339	ASN	CA-CB-CG	5.54	118.14	112.60
1	A	21	ARG	NH1-CZ-NH2	-5.54	112.10	119.30
1	C	286	SER	N-CA-CB	-5.54	103.82	112.41
1	A	344	ARG	CA-C-O	-5.54	112.59	120.51
1	C	21	ARG	NH1-CZ-NH2	-5.54	112.10	119.30
1	B	153	GLN	CA-C-O	-5.54	114.79	120.99
1	A	176	LEU	CA-C-O	-5.53	114.75	121.28
1	C	353	PRO	CA-C-N	5.53	132.10	121.54
1	C	353	PRO	C-N-CA	5.53	132.10	121.54
1	B	175	ASP	CA-CB-CG	-5.52	107.08	112.60
1	A	353	PRO	CA-C-N	5.52	132.09	121.54
1	A	353	PRO	C-N-CA	5.52	132.09	121.54
1	B	211	VAL	O-C-N	5.52	129.28	122.05
1	A	153	GLN	CA-C-O	-5.52	114.81	120.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	178	THR	CA-CB-CG2	5.52	119.88	110.50
1	C	209	LYS	CA-CB-CG	5.52	125.14	114.10
1	B	207	THR	O-C-N	5.52	129.93	122.59
1	A	422	LEU	CD1-CG-CD2	-5.51	98.67	110.80
1	C	178	THR	CA-CB-CG2	5.51	119.87	110.50
1	B	255	TYR	CA-CB-CG	5.51	123.82	113.90
1	C	176	LEU	CA-C-O	-5.51	114.78	121.28
1	B	422	LEU	CD1-CG-CD2	-5.51	98.69	110.80
1	B	431	GLN	OE1-CD-NE2	-5.51	117.09	122.60
1	A	211	VAL	O-C-N	5.50	129.26	122.05
1	B	353	PRO	CA-C-N	5.50	132.05	121.54
1	B	353	PRO	C-N-CA	5.50	132.05	121.54
1	C	422	LEU	CD1-CG-CD2	-5.50	98.70	110.80
1	A	431	GLN	OE1-CD-NE2	-5.50	117.10	122.60
1	B	209	LYS	CA-CB-CG	5.50	125.10	114.10
1	C	225	VAL	N-CA-C	5.50	120.77	109.34
1	A	209	LYS	CA-CB-CG	5.50	125.09	114.10
1	B	82	TYR	N-CA-C	-5.50	100.22	109.07
1	B	178	THR	CA-CB-CG2	5.50	119.84	110.50
1	C	431	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	C	339	ASN	CA-CB-CG	5.49	118.09	112.60
1	A	225	VAL	N-CA-C	5.49	120.75	109.34
1	A	339	ASN	CA-CB-CG	5.49	118.08	112.60
1	A	255	TYR	CA-CB-CG	5.48	123.76	113.90
1	C	82	TYR	N-CA-C	-5.48	100.25	109.07
1	C	255	TYR	CA-CB-CG	5.48	123.76	113.90
1	C	199	SER	CB-CA-C	-5.47	99.53	110.42
1	C	211	VAL	O-C-N	5.47	129.22	122.05
1	A	82	TYR	N-CA-C	-5.47	100.27	109.07
1	B	225	VAL	N-CA-C	5.47	120.71	109.34
1	A	199	SER	CB-CA-C	-5.46	99.56	110.42
1	C	280	LYS	CA-C-N	5.45	131.96	121.54
1	C	280	LYS	C-N-CA	5.45	131.96	121.54
1	B	128	ALA	CA-C-O	-5.45	114.93	120.71
1	B	199	SER	CB-CA-C	-5.45	99.57	110.42
1	A	128	ALA	CA-C-O	-5.45	114.93	120.71
1	A	280	LYS	CA-C-N	5.45	131.95	121.54
1	A	280	LYS	C-N-CA	5.45	131.95	121.54
1	B	280	LYS	CA-C-N	5.44	131.94	121.54
1	B	280	LYS	C-N-CA	5.44	131.94	121.54
1	C	128	ALA	CA-C-O	-5.44	114.94	120.71
1	C	243	GLN	CA-C-N	5.44	127.84	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	243	GLN	C-N-CA	5.44	127.84	120.44
1	A	308	ILE	CA-CB-CG2	5.44	119.74	110.50
1	B	96	THR	CA-CB-CG2	5.43	119.73	110.50
1	B	15	LEU	O-C-N	5.43	128.60	122.19
1	B	308	ILE	CA-CB-CG2	5.42	119.72	110.50
1	B	29	THR	CA-C-O	-5.42	115.78	120.88
1	C	125	TYR	N-CA-C	5.42	117.24	108.41
1	C	15	LEU	O-C-N	5.41	128.58	122.19
1	A	15	LEU	O-C-N	5.41	128.57	122.19
1	C	205	ILE	N-CA-CB	-5.41	103.95	111.41
1	C	308	ILE	CA-CB-CG2	5.41	119.70	110.50
1	B	98	ASP	CA-CB-CG	5.41	118.01	112.60
1	B	125	TYR	N-CA-C	5.41	117.22	108.41
1	B	139	PRO	CA-CB-CG	-5.40	94.24	104.50
1	A	96	THR	CA-CB-CG2	5.40	119.68	110.50
1	A	125	TYR	N-CA-C	5.40	117.21	108.41
1	A	87	ILE	N-CA-CB	-5.40	102.33	111.23
1	A	243	GLN	CA-C-N	5.40	127.78	120.44
1	A	243	GLN	C-N-CA	5.40	127.78	120.44
1	C	139	PRO	CA-CB-CG	-5.40	94.25	104.50
1	B	52	ILE	N-CA-C	5.39	115.60	110.53
1	C	298	ASN	O-C-N	-5.39	116.74	121.32
1	C	466	GLU	CA-C-O	5.39	125.07	119.14
1	A	298	ASN	O-C-N	-5.39	116.74	121.32
1	B	205	ILE	N-CA-CB	-5.39	103.97	111.41
1	B	243	GLN	CA-C-N	5.39	127.77	120.44
1	B	243	GLN	C-N-CA	5.39	127.77	120.44
1	C	96	THR	CA-CB-CG2	5.39	119.66	110.50
1	A	29	THR	CA-C-O	-5.38	115.82	120.88
1	A	191	VAL	CB-CA-C	-5.38	102.46	111.29
1	B	87	ILE	N-CA-CB	-5.38	102.35	111.23
1	A	98	ASP	CA-CB-CG	5.38	117.98	112.60
1	A	245	VAL	CB-CA-C	5.38	119.06	111.63
1	A	139	PRO	CA-CB-CG	-5.38	94.28	104.50
1	A	466	GLU	CA-C-O	5.38	125.06	119.14
1	C	87	ILE	N-CA-CB	-5.38	102.36	111.23
1	B	241	PRO	CA-N-CD	-5.38	104.47	112.00
1	A	52	ILE	N-CA-C	5.38	115.58	110.53
1	C	245	VAL	CB-CA-C	5.37	119.05	111.63
1	A	205	ILE	N-CA-CB	-5.37	104.00	111.41
1	C	191	VAL	CB-CA-C	-5.37	102.48	111.29
1	B	134	TYR	CB-CG-CD1	-5.37	112.75	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	191	VAL	CB-CA-C	-5.37	102.48	111.29
1	A	156	GLU	CA-C-N	5.37	131.79	121.54
1	A	156	GLU	C-N-CA	5.37	131.79	121.54
1	B	60	ILE	CA-CB-CG1	5.37	119.52	110.40
1	A	60	ILE	CA-CB-CG1	5.36	119.52	110.40
1	B	245	VAL	CB-CA-C	5.36	119.03	111.63
1	B	380	VAL	CA-CB-CG1	5.36	119.52	110.40
1	B	65	VAL	CA-C-O	-5.36	114.08	120.78
1	B	466	GLU	CA-C-O	5.36	125.04	119.14
1	A	134	TYR	CB-CG-CD1	-5.36	112.76	120.80
1	C	134	TYR	CB-CG-CD1	-5.36	112.76	120.80
1	C	380	VAL	CA-CB-CG1	5.36	119.51	110.40
1	A	380	VAL	CA-CB-CG1	5.36	119.50	110.40
1	C	156	GLU	CA-C-N	5.35	131.76	121.54
1	C	156	GLU	C-N-CA	5.35	131.76	121.54
1	C	180	LYS	CA-C-O	-5.35	112.86	120.51
1	A	241	PRO	CA-N-CD	-5.35	104.51	112.00
1	C	52	ILE	N-CA-C	5.35	115.56	110.53
1	B	298	ASN	O-C-N	-5.35	116.78	121.32
1	C	98	ASP	CA-CB-CG	5.35	117.95	112.60
1	B	156	GLU	CA-C-N	5.35	131.75	121.54
1	B	156	GLU	C-N-CA	5.35	131.75	121.54
1	A	126	ASP	CA-C-O	-5.34	114.56	120.70
1	C	241	PRO	CA-N-CD	-5.34	104.52	112.00
1	C	60	ILE	CA-CB-CG1	5.34	119.48	110.40
1	B	180	LYS	CA-C-O	-5.34	112.88	120.51
1	C	65	VAL	CA-C-O	-5.34	114.11	120.78
1	C	176	LEU	CB-CA-C	-5.34	100.48	109.50
1	C	329	ALA	CB-CA-C	-5.33	99.81	110.42
1	A	329	ALA	CB-CA-C	-5.33	99.82	110.42
1	B	72	ASP	CA-CB-CG	5.33	117.93	112.60
1	B	399	THR	N-CA-C	5.33	122.15	110.80
1	A	180	LYS	CA-C-O	-5.33	112.89	120.51
1	B	329	ALA	CB-CA-C	-5.33	99.82	110.42
1	A	176	LEU	CB-CA-C	-5.33	100.50	109.50
1	B	126	ASP	CA-C-O	-5.33	114.58	120.70
1	C	126	ASP	CA-C-O	-5.33	114.58	120.70
1	C	29	THR	CA-C-O	-5.32	115.88	120.88
1	A	399	THR	N-CA-C	5.32	122.13	110.80
1	A	65	VAL	CA-C-O	-5.32	114.14	120.78
1	A	72	ASP	CA-CB-CG	5.32	117.92	112.60
1	B	162	GLU	CB-CA-C	5.31	118.96	110.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	176	LEU	CB-CA-C	-5.31	100.52	109.50
1	C	391	THR	N-CA-C	-5.31	106.97	113.50
1	C	377	THR	N-CA-CB	-5.30	101.53	110.49
1	C	463	TYR	C-N-CD	5.30	146.74	125.00
1	B	161	VAL	N-CA-CB	-5.30	102.48	111.23
1	B	377	THR	N-CA-CB	-5.30	101.53	110.49
1	B	463	TYR	C-N-CD	5.30	146.73	125.00
1	C	72	ASP	CA-CB-CG	5.30	117.90	112.60
1	C	399	THR	N-CA-C	5.30	122.08	110.80
1	A	161	VAL	N-CA-CB	-5.29	102.49	111.23
1	A	377	THR	N-CA-CB	-5.29	101.54	110.49
1	A	463	TYR	C-N-CD	5.29	146.70	125.00
1	C	59	ALA	N-CA-CB	-5.29	102.03	111.08
1	A	11	ILE	CB-CG1-CD1	-5.29	102.69	113.80
1	C	161	VAL	N-CA-CB	-5.29	102.50	111.23
1	A	391	THR	N-CA-C	-5.29	107.00	113.50
1	C	11	ILE	CA-CB-CG2	5.29	119.49	110.50
1	C	162	GLU	CB-CA-C	5.29	118.92	110.09
1	B	418	TYR	CB-CG-CD2	5.28	128.72	120.80
1	A	59	ALA	N-CA-CB	-5.28	102.05	111.08
1	B	11	ILE	CB-CG1-CD1	-5.28	102.71	113.80
1	C	11	ILE	CB-CG1-CD1	-5.28	102.71	113.80
1	A	18	ARG	CA-CB-CG	5.28	124.66	114.10
1	A	162	GLU	CB-CA-C	5.28	118.90	110.09
1	B	84	GLN	CB-CG-CD	5.28	121.57	112.60
1	A	152	ILE	N-CA-C	5.28	120.31	109.34
1	B	59	ALA	N-CA-CB	-5.28	102.06	111.08
1	B	152	ILE	N-CA-C	5.27	120.31	109.34
1	C	290	GLY	N-CA-C	5.27	118.78	110.71
1	B	138	LYS	N-CA-CB	-5.27	102.46	110.05
1	C	152	ILE	N-CA-C	5.27	120.31	109.34
1	C	138	LYS	N-CA-CB	-5.27	102.46	110.05
1	C	18	ARG	CA-CB-CG	5.27	124.64	114.10
1	A	11	ILE	CA-CB-CG2	5.27	119.46	110.50
1	C	287	THR	N-CA-C	5.27	119.29	112.86
1	B	18	ARG	CA-CB-CG	5.26	124.62	114.10
1	A	352	TYR	CA-C-N	5.26	126.42	119.84
1	A	352	TYR	C-N-CA	5.26	126.42	119.84
1	A	461	VAL	N-CA-C	-5.26	100.74	108.11
1	B	461	VAL	N-CA-C	-5.26	100.75	108.11
1	A	290	GLY	N-CA-C	5.26	118.75	110.71
1	B	408	LEU	CB-CA-C	5.26	119.36	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	287	THR	N-CA-C	5.26	119.27	112.86
1	A	418	TYR	CB-CG-CD2	5.26	128.69	120.80
1	C	352	TYR	CA-C-N	5.26	126.41	119.84
1	C	352	TYR	C-N-CA	5.26	126.41	119.84
1	B	11	ILE	CA-CB-CG2	5.25	119.43	110.50
1	B	391	THR	N-CA-C	-5.25	107.04	113.50
1	C	122	HIS	N-CA-C	5.25	118.17	109.46
1	A	122	HIS	N-CA-C	5.25	118.17	109.46
1	A	138	LYS	N-CA-CB	-5.25	102.50	110.05
1	B	287	THR	N-CA-C	5.25	119.26	112.86
1	B	122	HIS	N-CA-C	5.24	118.16	109.46
1	A	84	GLN	CB-CG-CD	5.24	121.51	112.60
1	B	185	ASN	CA-CB-CG	5.24	117.84	112.60
1	C	461	VAL	N-CA-C	-5.24	100.78	108.11
1	C	408	LEU	CB-CA-C	5.24	119.33	110.79
1	A	83	TRP	O-C-N	5.24	129.55	122.59
1	A	408	LEU	CB-CA-C	5.24	119.33	110.79
1	A	11	ILE	CA-C-N	-5.23	115.43	122.86
1	A	11	ILE	C-N-CA	-5.23	115.43	122.86
1	B	290	GLY	N-CA-C	5.23	118.72	110.71
1	C	83	TRP	O-C-N	5.23	129.55	122.59
1	B	396	ARG	CG-CD-NE	5.23	123.50	112.00
1	C	185	ASN	CA-CB-CG	5.23	117.83	112.60
1	A	185	ASN	CA-CB-CG	5.23	117.83	112.60
1	B	83	TRP	O-C-N	5.22	129.54	122.59
1	C	84	GLN	CB-CG-CD	5.22	121.48	112.60
1	C	396	ARG	CG-CD-NE	5.22	123.49	112.00
1	B	368	ILE	CA-CB-CG1	5.22	119.27	110.40
1	A	396	ARG	CG-CD-NE	5.22	123.48	112.00
1	C	418	TYR	CB-CG-CD2	5.22	128.62	120.80
1	A	368	ILE	CA-CB-CG1	5.21	119.26	110.40
1	B	352	TYR	CA-C-N	5.21	126.35	119.84
1	B	352	TYR	C-N-CA	5.21	126.35	119.84
1	C	82	TYR	CA-C-O	-5.21	114.70	120.38
1	C	318	ILE	N-CA-C	5.21	115.42	110.42
1	C	11	ILE	CA-C-N	-5.21	115.47	122.86
1	C	11	ILE	C-N-CA	-5.21	115.47	122.86
1	A	82	TYR	CA-C-O	-5.20	114.71	120.38
1	A	359	TYR	N-CA-C	5.20	117.36	111.02
1	B	11	ILE	CA-C-N	-5.19	115.49	122.86
1	B	11	ILE	C-N-CA	-5.19	115.49	122.86
1	C	162	GLU	CB-CG-CD	-5.18	103.79	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	120	ALA	N-CA-C	5.18	121.84	110.80
1	B	182	VAL	CA-C-N	5.18	131.30	121.97
1	B	182	VAL	C-N-CA	5.18	131.30	121.97
1	B	359	TYR	N-CA-C	5.18	117.34	111.02
1	C	359	TYR	N-CA-C	5.18	117.34	111.02
1	B	38	CYS	CA-C-O	-5.18	112.27	121.38
1	A	38	CYS	CA-C-O	-5.18	112.27	121.38
1	B	21	ARG	CD-NE-CZ	5.18	131.65	124.40
1	C	38	CYS	CA-C-O	-5.18	112.27	121.38
1	B	443	THR	N-CA-C	5.17	117.13	108.23
1	A	318	ILE	N-CA-C	5.17	115.39	110.42
1	A	162	GLU	CB-CG-CD	-5.17	103.81	112.60
1	B	318	ILE	N-CA-C	5.17	115.39	110.42
1	A	120	ALA	N-CA-C	5.17	121.81	110.80
1	A	251	ASN	CA-CB-CG	5.17	117.77	112.60
1	C	120	ALA	N-CA-C	5.17	121.81	110.80
1	A	21	ARG	CD-NE-CZ	5.17	131.64	124.40
1	B	162	GLU	CB-CG-CD	-5.17	103.81	112.60
1	B	251	ASN	CA-CB-CG	5.17	117.77	112.60
1	C	182	VAL	CA-C-N	5.17	131.27	121.97
1	C	182	VAL	C-N-CA	5.17	131.27	121.97
1	B	82	TYR	CA-C-O	-5.17	114.75	120.38
1	C	21	ARG	CD-NE-CZ	5.17	131.63	124.40
1	C	368	ILE	CA-CB-CG1	5.17	119.18	110.40
1	B	231	VAL	CA-C-N	-5.16	113.72	123.27
1	B	231	VAL	C-N-CA	-5.16	113.72	123.27
1	B	325	PRO	CA-C-N	5.16	128.93	122.43
1	B	325	PRO	C-N-CA	5.16	128.93	122.43
1	A	182	VAL	CA-C-N	5.16	131.25	121.97
1	A	182	VAL	C-N-CA	5.16	131.25	121.97
1	A	443	THR	N-CA-C	5.15	117.09	108.23
1	C	258	LEU	CB-CG-CD1	-5.15	95.24	110.70
1	C	245	VAL	N-CA-C	-5.15	102.44	109.55
1	C	443	THR	N-CA-C	5.15	117.09	108.23
1	B	233	ASP	OD1-CG-OD2	5.15	135.25	122.90
1	A	245	VAL	N-CA-C	-5.14	102.45	109.55
1	B	162	GLU	N-CA-C	5.14	119.65	113.17
1	C	162	GLU	N-CA-C	5.14	119.65	113.17
1	A	162	GLU	N-CA-C	5.14	119.64	113.17
1	A	258	LEU	CB-CG-CD1	-5.14	95.28	110.70
1	C	251	ASN	CA-CB-CG	5.14	117.74	112.60
1	B	258	LEU	CB-CG-CD1	-5.14	95.29	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	58	THR	N-CA-CB	-5.13	102.89	110.49
1	A	233	ASP	OD1-CG-OD2	5.13	135.22	122.90
1	C	233	ASP	OD1-CG-OD2	5.13	135.21	122.90
1	A	231	VAL	CA-C-N	-5.12	113.79	123.27
1	A	231	VAL	C-N-CA	-5.12	113.79	123.27
1	B	205	ILE	N-CA-C	5.12	115.28	108.11
1	B	245	VAL	N-CA-C	-5.12	102.48	109.55
1	C	181	ASP	CA-CB-CG	5.12	117.72	112.60
1	A	58	THR	N-CA-CB	-5.12	102.92	110.49
1	C	231	VAL	CA-C-N	-5.12	113.80	123.27
1	C	231	VAL	C-N-CA	-5.12	113.80	123.27
1	C	205	ILE	N-CA-C	5.11	115.27	108.11
1	C	406	THR	N-CA-C	5.11	116.85	108.52
1	C	409	SER	O-C-N	-5.11	117.22	123.30
1	A	4	ALA	CA-C-O	5.11	125.24	119.27
1	A	409	SER	O-C-N	-5.11	117.22	123.30
1	C	4	ALA	CA-C-O	5.11	125.24	119.27
1	C	135	SER	N-CA-CB	-5.11	102.44	110.30
1	A	6	TRP	N-CA-C	5.10	121.66	110.80
1	A	205	ILE	N-CA-C	5.10	115.25	108.11
1	C	6	TRP	N-CA-C	5.10	121.66	110.80
1	B	58	THR	CA-C-O	5.09	125.31	119.35
1	A	58	THR	CA-C-O	5.09	125.30	119.35
1	A	71	GLN	CA-C-O	-5.09	113.23	120.51
1	A	270	ASP	N-CA-C	5.09	116.83	111.28
1	C	7	ARG	N-CA-CB	-5.09	101.89	110.49
1	C	58	THR	N-CA-CB	-5.09	102.96	110.49
1	C	270	ASP	N-CA-C	5.09	116.82	111.28
1	C	71	GLN	CA-C-O	-5.08	113.24	120.51
1	B	6	TRP	N-CA-C	5.08	121.62	110.80
1	C	58	THR	CA-C-O	5.08	125.29	119.35
1	A	406	THR	N-CA-C	5.08	116.80	108.52
1	C	284	PRO	N-CA-C	-5.08	102.01	112.47
1	C	16	THR	O-C-N	5.08	129.34	122.59
1	A	16	THR	O-C-N	5.08	129.34	122.59
1	A	135	SER	N-CA-CB	-5.08	102.48	110.30
1	B	299	PRO	O-C-N	5.08	129.49	122.64
1	A	7	ARG	N-CA-CB	-5.07	101.92	110.49
1	A	284	PRO	N-CA-C	-5.07	102.02	112.47
1	B	160	GLN	OE1-CD-NE2	5.07	127.67	122.60
1	A	299	PRO	O-C-N	5.07	129.49	122.64
1	B	71	GLN	CA-C-O	-5.07	113.26	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	284	PRO	N-CA-C	-5.07	102.03	112.47
1	B	4	ALA	CA-C-O	5.07	125.20	119.27
1	B	255	TYR	CA-C-O	-5.07	115.48	120.70
1	C	313	ASN	N-CA-CB	-5.07	102.67	110.12
1	A	329	ALA	CA-C-O	-5.07	113.27	120.51
1	B	270	ASP	N-CA-C	5.07	116.80	111.28
1	C	50	ASP	N-CA-CB	-5.07	101.98	110.39
1	A	181	ASP	CA-CB-CG	5.06	117.66	112.60
1	A	31	ASN	N-CA-C	5.06	117.03	110.65
1	A	166	LEU	CA-C-O	-5.06	114.76	120.43
1	B	135	SER	N-CA-CB	-5.06	102.51	110.30
1	B	181	ASP	CA-CB-CG	5.06	117.66	112.60
1	C	158	GLN	CA-CB-CG	5.06	124.22	114.10
1	A	50	ASP	N-CA-CB	-5.06	101.99	110.39
1	A	313	ASN	N-CA-CB	-5.06	102.69	110.12
1	B	406	THR	N-CA-C	5.06	116.77	108.52
1	C	166	LEU	CA-C-O	-5.06	114.77	120.43
1	B	31	ASN	N-CA-C	5.06	117.02	110.65
1	B	313	ASN	N-CA-CB	-5.06	102.69	110.12
1	C	31	ASN	N-CA-C	5.06	117.02	110.65
1	A	148	PRO	CA-C-O	-5.05	111.40	120.60
1	B	158	GLN	CA-CB-CG	5.05	124.21	114.10
1	C	148	PRO	CA-C-O	-5.05	111.41	120.60
1	B	409	SER	O-C-N	-5.05	117.29	123.30
1	C	296	HIS	N-CA-C	5.05	121.55	110.80
1	A	158	GLN	CA-CB-CG	5.05	124.20	114.10
1	A	160	GLN	OE1-CD-NE2	5.05	127.65	122.60
1	B	419	THR	N-CA-C	5.05	116.92	107.99
1	C	419	THR	N-CA-C	5.05	116.92	107.99
1	B	329	ALA	CA-C-O	-5.04	113.30	120.51
1	B	7	ARG	N-CA-CB	-5.04	101.97	110.49
1	C	329	ALA	CA-C-O	-5.04	113.30	120.51
1	B	296	HIS	N-CA-C	5.04	121.54	110.80
1	A	419	THR	N-CA-C	5.04	116.91	107.99
1	A	296	HIS	N-CA-C	5.03	121.52	110.80
1	B	148	PRO	CA-C-O	-5.03	111.44	120.60
1	B	50	ASP	N-CA-CB	-5.03	102.04	110.39
1	C	294	GLU	O-C-N	5.03	129.27	122.59
1	C	299	PRO	O-C-N	5.02	129.42	122.64
1	B	166	LEU	CA-C-O	-5.02	114.81	120.43
1	A	255	TYR	CA-C-O	-5.02	115.53	120.70
1	B	116	VAL	CA-CB-CG2	5.01	118.92	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	213	LYS	CB-CA-C	-5.01	100.45	110.42
1	C	152	ILE	CB-CG1-CD1	-5.01	103.28	113.80
1	B	91	ASN	O-C-N	-5.01	115.93	122.59
1	C	213	LYS	CB-CA-C	-5.01	100.45	110.42
1	B	213	LYS	CB-CA-C	-5.01	100.45	110.42
1	C	206	ASP	N-CA-C	5.01	119.11	113.15
1	B	16	THR	O-C-N	5.00	129.25	122.59
1	A	152	ILE	CB-CG1-CD1	-5.00	103.30	113.80
1	C	160	GLN	OE1-CD-NE2	5.00	127.60	122.60

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	208	VAL	CA
1	A	404	ILE	CB
1	B	208	VAL	CA
1	B	404	ILE	CB
1	C	208	VAL	CA
1	C	404	ILE	CB

All (261) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	105	SER	Mainchain
1	A	108	HIS	Mainchain
1	A	123	MET	Mainchain
1	A	13	PHE	Mainchain
1	A	134	TYR	Sidechain
1	A	138	LYS	Peptide,Mainchain
1	A	15	LEU	Mainchain
1	A	157	ASP	Sidechain
1	A	17	ASP	Mainchain
1	A	194	LEU	Mainchain
1	A	195	VAL	Mainchain
1	A	2	THR	Mainchain
1	A	204	ARG	Sidechain
1	A	205	ILE	Mainchain
1	A	208	VAL	Mainchain
1	A	209	LYS	Mainchain
1	A	211	VAL	Mainchain
1	A	212	GLN	Mainchain
1	A	219	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	A	24	GLY	Mainchain
1	A	243	GLN	Sidechain
1	A	246	MET	Mainchain
1	A	249	VAL	Mainchain
1	A	250	LEU	Mainchain
1	A	252	TYR	Mainchain
1	A	255	TYR	Sidechain
1	A	256	TYR	Mainchain
1	A	258	LEU	Mainchain
1	A	259	LEU	Mainchain
1	A	26	THR	Mainchain
1	A	265	THR	Mainchain
1	A	272	LEU	Mainchain
1	A	273	TYR	Mainchain
1	A	278	THR	Mainchain
1	A	282	ASP	Mainchain
1	A	284	PRO	Mainchain
1	A	292	PHE	Mainchain
1	A	294	GLU	Sidechain
1	A	300	ARG	Sidechain,Mainchain
1	A	31	ASN	Mainchain
1	A	310	LEU	Mainchain
1	A	313	ASN	Sidechain
1	A	324	LEU	Mainchain
1	A	325	PRO	Mainchain
1	A	329	ALA	Mainchain
1	A	340	ASP	Peptide,Mainchain
1	A	346	ALA	Mainchain
1	A	347	THR	Mainchain
1	A	35	GLN	Mainchain
1	A	353	PRO	Mainchain
1	A	376	ASP	Mainchain
1	A	39	GLY	Mainchain
1	A	394	ALA	Mainchain
1	A	396	ARG	Sidechain,Mainchain
1	A	404	ILE	Mainchain
1	A	431	GLN	Sidechain
1	A	432	GLN	Sidechain
1	A	435	GLU	Sidechain,Mainchain
1	A	452	VAL	Mainchain
1	A	458	LEU	Peptide
1	A	460	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	A	461	VAL	Mainchain
1	A	463	TYR	Sidechain
1	A	54	GLY	Mainchain
1	A	61	TRP	Mainchain
1	A	66	THR	Mainchain
1	A	68	GLN	Sidechain
1	A	7	ARG	Sidechain
1	A	73	CYS	Mainchain
1	A	74	ALA	Mainchain
1	A	75	TYR	Sidechain
1	A	76	GLY	Mainchain
1	A	79	TYR	Sidechain
1	A	81	GLY	Mainchain
1	A	86	ASP	Mainchain
1	A	87	ILE	Mainchain
1	A	91	ASN	Sidechain,Mainchain
1	A	93	ASN	Mainchain
1	A	94	TYR	Sidechain,Mainchain
1	A	99	ASP	Sidechain
1	B	105	SER	Mainchain
1	B	108	HIS	Mainchain
1	B	123	MET	Mainchain
1	B	13	PHE	Mainchain
1	B	134	TYR	Sidechain
1	B	138	LYS	Peptide,Mainchain
1	B	15	LEU	Mainchain
1	B	157	ASP	Sidechain
1	B	17	ASP	Mainchain
1	B	194	LEU	Mainchain
1	B	195	VAL	Mainchain
1	B	2	THR	Mainchain
1	B	204	ARG	Sidechain
1	B	205	ILE	Mainchain
1	B	208	VAL	Mainchain
1	B	209	LYS	Mainchain
1	B	211	VAL	Mainchain
1	B	212	GLN	Mainchain
1	B	219	TYR	Sidechain
1	B	24	GLY	Mainchain
1	B	243	GLN	Sidechain
1	B	246	MET	Mainchain
1	B	249	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	B	250	LEU	Mainchain
1	B	252	TYR	Mainchain
1	B	255	TYR	Sidechain
1	B	256	TYR	Mainchain
1	B	258	LEU	Mainchain
1	B	259	LEU	Mainchain
1	B	26	THR	Mainchain
1	B	265	THR	Mainchain
1	B	272	LEU	Mainchain
1	B	273	TYR	Mainchain
1	B	278	THR	Mainchain
1	B	282	ASP	Mainchain
1	B	284	PRO	Mainchain
1	B	292	PHE	Mainchain
1	B	294	GLU	Sidechain
1	B	300	ARG	Sidechain,Mainchain
1	B	31	ASN	Mainchain
1	B	310	LEU	Mainchain
1	B	313	ASN	Sidechain
1	B	324	LEU	Mainchain
1	B	325	PRO	Mainchain
1	B	329	ALA	Mainchain
1	B	340	ASP	Peptide,Mainchain
1	B	346	ALA	Mainchain
1	B	347	THR	Mainchain
1	B	35	GLN	Mainchain
1	B	353	PRO	Mainchain
1	B	376	ASP	Mainchain
1	B	39	GLY	Mainchain
1	B	394	ALA	Mainchain
1	B	396	ARG	Sidechain,Mainchain
1	B	404	ILE	Mainchain
1	B	431	GLN	Sidechain
1	B	432	GLN	Sidechain
1	B	435	GLU	Sidechain,Mainchain
1	B	452	VAL	Mainchain
1	B	458	LEU	Peptide
1	B	460	ARG	Sidechain
1	B	461	VAL	Mainchain
1	B	463	TYR	Sidechain
1	B	54	GLY	Mainchain
1	B	61	TRP	Mainchain

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Mol	Chain	Res	Type	Group
1	B	66	THR	Mainchain
1	B	68	GLN	Sidechain
1	B	7	ARG	Sidechain
1	B	73	CYS	Mainchain
1	B	74	ALA	Mainchain
1	B	75	TYR	Sidechain
1	B	76	GLY	Mainchain
1	B	79	TYR	Sidechain
1	B	81	GLY	Mainchain
1	B	86	ASP	Mainchain
1	B	87	ILE	Mainchain
1	B	91	ASN	Sidechain,Mainchain
1	B	93	ASN	Mainchain
1	B	94	TYR	Sidechain,Mainchain
1	B	99	ASP	Sidechain
1	C	105	SER	Mainchain
1	C	108	HIS	Mainchain
1	C	123	MET	Mainchain
1	C	13	PHE	Mainchain
1	C	134	TYR	Sidechain
1	C	138	LYS	Peptide,Mainchain
1	C	15	LEU	Mainchain
1	C	157	ASP	Sidechain
1	C	17	ASP	Mainchain
1	C	194	LEU	Mainchain
1	C	195	VAL	Mainchain
1	C	2	THR	Mainchain
1	C	204	ARG	Sidechain
1	C	205	ILE	Mainchain
1	C	208	VAL	Mainchain
1	C	209	LYS	Mainchain
1	C	211	VAL	Mainchain
1	C	212	GLN	Mainchain
1	C	219	TYR	Sidechain
1	C	24	GLY	Mainchain
1	C	243	GLN	Sidechain
1	C	246	MET	Mainchain
1	C	249	VAL	Mainchain
1	C	250	LEU	Mainchain
1	C	252	TYR	Mainchain
1	C	255	TYR	Sidechain
1	C	256	TYR	Mainchain

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Mol	Chain	Res	Type	Group
1	C	258	LEU	Mainchain
1	C	259	LEU	Mainchain
1	C	26	THR	Mainchain
1	C	265	THR	Mainchain
1	C	272	LEU	Mainchain
1	C	273	TYR	Mainchain
1	C	278	THR	Mainchain
1	C	282	ASP	Mainchain
1	C	284	PRO	Mainchain
1	C	292	PHE	Mainchain
1	C	294	GLU	Sidechain
1	C	300	ARG	Sidechain,Mainchain
1	C	31	ASN	Mainchain
1	C	310	LEU	Mainchain
1	C	313	ASN	Sidechain
1	C	324	LEU	Mainchain
1	C	325	PRO	Mainchain
1	C	329	ALA	Mainchain
1	C	340	ASP	Peptide,Mainchain
1	C	346	ALA	Mainchain
1	C	347	THR	Mainchain
1	C	35	GLN	Mainchain
1	C	353	PRO	Mainchain
1	C	376	ASP	Mainchain
1	C	39	GLY	Mainchain
1	C	394	ALA	Mainchain
1	C	396	ARG	Sidechain,Mainchain
1	C	404	ILE	Mainchain
1	C	431	GLN	Sidechain
1	C	432	GLN	Sidechain
1	C	435	GLU	Sidechain,Mainchain
1	C	452	VAL	Mainchain
1	C	458	LEU	Peptide
1	C	460	ARG	Sidechain
1	C	461	VAL	Mainchain
1	C	463	TYR	Sidechain
1	C	54	GLY	Mainchain
1	C	61	TRP	Mainchain
1	C	66	THR	Mainchain
1	C	68	GLN	Sidechain
1	C	7	ARG	Sidechain
1	C	73	CYS	Mainchain

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Mol	Chain	Res	Type	Group
1	C	74	ALA	Mainchain
1	C	75	TYR	Sidechain
1	C	76	GLY	Mainchain
1	C	79	TYR	Sidechain
1	C	81	GLY	Mainchain
1	C	86	ASP	Mainchain
1	C	87	ILE	Mainchain
1	C	91	ASN	Sidechain,Mainchain
1	C	93	ASN	Mainchain
1	C	94	TYR	Sidechain,Mainchain
1	C	99	ASP	Sidechain

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	3690	0	3451	1720	135
1	B	3690	0	3417	2215	0
1	C	3690	0	3450	1395	135
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
All	All	11073	0	10318	3968	135

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 186.

All (3968) 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)
1:A:87:ILE:CD1	1:B:374:SER:HB3	1.16	1.63
1:B:445:GLY:CA	1:C:185:ASN:HD22	0.99	1.62
1:A:205:ILE:CG2	1:B:472:LYS:HG3	1.17	1.60
1:A:205:ILE:HG21	1:B:472:LYS:CG	1.31	1.59
1:B:278:THR:HA	1:C:380:VAL:CG2	1.28	1.59
1:A:190:TRP:CZ2	1:B:375:LYS:HD2	1.17	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:219:TYR:HE2	1:B:371:TYR:CB	1.08	1.58
1:A:219:TYR:CE1	1:B:473:ILE:HD12	1.36	1.58
1:A:148:PRO:CA	1:B:107:LEU:HA	1.33	1.57
1:A:221:LYS:HA	1:B:434:THR:CG2	1.25	1.56
1:A:165:TRP:HE1	1:B:110:ARG:CA	0.92	1.56
1:A:190:TRP:CH2	1:B:375:LYS:HD2	1.38	1.56
1:A:222:ALA:CB	1:B:368:ILE:CG1	1.82	1.55
1:A:148:PRO:HA	1:B:107:LEU:CA	1.35	1.55
1:A:186:GLU:HG3	1:B:370:ASN:CB	1.21	1.53
1:B:430:GLY:H	1:C:185:ASN:CG	1.05	1.53
1:A:180:LYS:HD3	1:B:57:PHE:CB	1.39	1.52
1:A:227:CYS:CB	1:B:476:ASP:HB2	1.30	1.52
1:B:238:TYR:CA	1:C:376:ASP:C	1.81	1.51
1:A:222:ALA:CB	1:B:368:ILE:HG13	1.03	1.51
1:B:238:TYR:HA	1:C:376:ASP:C	1.16	1.50
1:A:143:GLN:HG2	1:B:108:HIS:CD2	1.00	1.50
1:A:180:LYS:CA	1:B:55:MET:HB3	1.40	1.49
1:B:422:LEU:HD11	1:C:221:LYS:CG	1.39	1.49
1:A:225:VAL:H	1:B:465:THR:CG2	1.20	1.48
1:B:274:ASN:HA	1:C:286:SER:CB	1.44	1.47
1:A:145:TYR:CG	1:B:9:GLN:OE1	1.65	1.47
1:A:180:LYS:HE3	1:B:11:ILE:C	1.40	1.47
1:A:143:GLN:CG	1:B:108:HIS:CD2	1.95	1.46
1:A:87:ILE:HD11	1:B:374:SER:CB	1.03	1.46
1:A:194:LEU:CD2	1:B:375:LYS:HG2	1.44	1.46
1:A:165:TRP:CZ2	1:B:109:GLU:O	1.66	1.45
1:A:221:LYS:CA	1:B:434:THR:HG21	1.43	1.45
1:A:180:LYS:N	1:B:55:MET:CB	1.80	1.45
1:A:190:TRP:CH2	1:B:375:LYS:CD	1.95	1.45
1:B:281:SER:CB	1:C:8:SER:H	1.25	1.45
1:B:400:ASP:C	1:C:193:SER:HA	1.37	1.44
1:A:221:LYS:CG	1:B:436:VAL:H	1.29	1.44
1:A:463:TYR:OH	1:A:463:TYR:CZ	1.71	1.43
1:A:227:CYS:HB3	1:B:476:ASP:CB	1.48	1.43
1:A:222:ALA:HA	1:B:368:ILE:CD1	1.45	1.43
1:A:87:ILE:CG1	1:B:374:SER:O	1.65	1.43
1:A:180:LYS:HA	1:B:55:MET:CB	1.45	1.42
1:C:463:TYR:OH	1:C:463:TYR:CZ	1.71	1.42
1:A:221:LYS:CB	1:B:436:VAL:HA	1.29	1.42
1:A:227:CYS:CB	1:B:476:ASP:CB	1.98	1.42
1:B:385:PRO:CA	1:C:3:PRO:HD3	1.46	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:180:LYS:N	1:B:55:MET:HB2	1.12	1.42
1:A:87:ILE:CG1	1:B:374:SER:C	1.92	1.42
1:A:194:LEU:HD22	1:B:375:LYS:CG	1.51	1.41
1:A:229:GLY:CA	1:B:478:SER:CB	1.96	1.41
1:B:386:TYR:CE2	1:C:288:LEU:HD13	1.56	1.41
1:B:404:ILE:N	1:B:404:ILE:CA	1.85	1.40
1:B:445:GLY:N	1:C:185:ASN:ND2	1.67	1.40
1:A:221:LYS:HB3	1:B:436:VAL:CA	1.11	1.40
1:B:400:ASP:CB	1:C:193:SER:O	1.68	1.40
1:A:87:ILE:HG12	1:B:374:SER:C	1.42	1.39
1:B:383:LYS:HG3	1:C:6:TRP:CD1	1.57	1.39
1:A:185:ASN:CB	1:B:366:ASN:HA	1.26	1.39
1:A:193:SER:CA	1:B:403:GLN:HA	1.47	1.38
1:A:219:TYR:CE2	1:B:371:TYR:CB	1.99	1.38
1:B:445:GLY:CA	1:C:185:ASN:ND2	1.82	1.38
1:B:237:ALA:CB	1:C:379:PHE:N	1.84	1.38
1:A:246:MET:CB	1:B:477:SER:N	1.72	1.37
1:B:238:TYR:HA	1:C:376:ASP:CA	1.54	1.37
1:C:404:ILE:N	1:C:404:ILE:CA	1.85	1.37
1:A:404:ILE:N	1:A:404:ILE:CA	1.84	1.37
1:A:88:TYR:CE2	1:B:373:ILE:C	2.03	1.36
1:B:235:ASP:OD2	1:C:399:THR:CG2	1.70	1.36
1:B:387:ILE:HG21	1:C:221:LYS:CE	1.51	1.36
1:A:225:VAL:H	1:B:465:THR:CB	1.34	1.36
1:B:387:ILE:CG2	1:C:221:LYS:HE3	1.52	1.36
1:A:87:ILE:CD1	1:B:374:SER:CB	1.76	1.36
1:B:235:ASP:CG	1:C:399:THR:HG21	1.47	1.36
1:B:430:GLY:N	1:C:185:ASN:CG	1.84	1.36
1:B:463:TYR:CZ	1:B:463:TYR:OH	1.71	1.36
1:B:278:THR:HG21	1:C:381:THR:OG1	1.23	1.35
1:A:205:ILE:HG12	1:B:471:SER:C	1.49	1.35
1:A:219:TYR:CD1	1:B:473:ILE:HD12	1.62	1.35
1:B:429:ALA:CB	1:C:182:VAL:O	1.72	1.35
1:B:422:LEU:CD1	1:C:221:LYS:HG2	1.57	1.35
1:B:235:ASP:CG	1:C:399:THR:CG2	1.99	1.34
1:A:145:TYR:CD1	1:B:9:GLN:OE1	1.80	1.34
1:B:235:ASP:OD1	1:C:399:THR:CG2	1.75	1.34
1:B:241:PRO:O	1:C:374:SER:CA	1.65	1.34
1:B:383:LYS:NZ	1:C:5:ASP:HB2	1.43	1.33
1:A:189:ASP:H	1:B:369:ARG:CA	1.32	1.33
1:A:222:ALA:CA	1:B:368:ILE:CD1	2.05	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:GLY:O	1:B:477:SER:HB3	1.26	1.33
1:A:229:GLY:CA	1:B:478:SER:HB2	1.53	1.33
1:B:430:GLY:H	1:C:185:ASN:ND2	1.23	1.33
1:A:180:LYS:CD	1:B:57:PHE:HB2	1.55	1.32
1:A:190:TRP:CZ3	1:B:371:TYR:CD1	2.14	1.32
1:B:237:ALA:HB2	1:C:379:PHE:N	0.99	1.31
1:A:180:LYS:CA	1:B:55:MET:CB	2.00	1.31
1:B:401:GLY:N	1:C:196:SER:HB2	1.46	1.31
1:A:184:LYS:CG	1:B:56:GLY:HA3	1.59	1.31
1:A:249:VAL:HG12	1:B:477:SER:CB	1.60	1.30
1:B:384:ASN:HA	1:C:2:THR:CG2	1.60	1.30
1:A:190:TRP:HZ3	1:B:371:TYR:CD1	1.46	1.30
1:A:219:TYR:CE2	1:B:371:TYR:HB2	1.64	1.30
1:B:238:TYR:HB2	1:C:376:ASP:OD2	1.25	1.30
1:B:278:THR:C	1:C:380:VAL:HG21	1.52	1.30
1:A:224:GLY:HA2	1:B:434:THR:OG1	1.27	1.29
1:A:88:TYR:CE2	1:B:373:ILE:O	1.83	1.29
1:B:402:SER:H	1:C:193:SER:CB	1.44	1.29
1:A:165:TRP:HZ2	1:B:109:GLU:C	1.38	1.29
1:B:279:VAL:CG1	1:C:4:ALA:HB1	1.62	1.29
1:B:278:THR:CA	1:C:380:VAL:CG2	2.10	1.28
1:B:274:ASN:HA	1:C:286:SER:CA	1.63	1.28
1:B:385:PRO:CD	1:C:2:THR:HG22	1.61	1.28
1:B:278:THR:HG23	1:C:381:THR:N	1.46	1.28
1:B:449:ASN:HB2	1:C:184:LYS:NZ	1.46	1.27
1:B:278:THR:CA	1:C:380:VAL:HG21	1.61	1.27
1:A:143:GLN:CD	1:B:108:HIS:HA	1.60	1.27
1:A:84:GLN:HE22	1:B:375:LYS:NZ	1.32	1.26
1:A:186:GLU:OE1	1:B:373:ILE:HD12	1.15	1.26
1:B:385:PRO:N	1:C:3:PRO:CD	1.89	1.26
1:A:188:TYR:N	1:B:367:ALA:O	1.65	1.25
1:A:190:TRP:CZ3	1:B:371:TYR:CE1	2.24	1.25
1:A:217:PRO:HG2	1:B:364:SER:OG	1.31	1.25
1:A:190:TRP:CZ2	1:B:375:LYS:CD	2.11	1.25
1:A:180:LYS:CD	1:B:57:PHE:CB	2.12	1.25
1:A:190:TRP:CD2	1:B:374:SER:HB2	1.72	1.25
1:B:278:THR:O	1:C:380:VAL:HG21	1.32	1.25
1:A:87:ILE:HG12	1:B:374:SER:CA	1.66	1.25
1:A:180:LYS:HA	1:B:55:MET:CG	1.65	1.24
1:A:225:VAL:N	1:B:465:THR:CG2	2.01	1.24
1:A:184:LYS:HG2	1:B:56:GLY:CA	1.67	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:220:ASN:CA	1:B:473:ILE:HG23	1.60	1.23
1:B:237:ALA:HB2	1:C:378:GLY:C	1.61	1.23
1:A:116:VAL:O	1:B:469:ALA:HB1	1.37	1.23
1:A:227:CYS:CA	1:B:476:ASP:HB2	1.67	1.23
1:B:382:TYR:CD1	1:C:2:THR:HG23	1.72	1.23
1:B:447:ASP:OD2	1:C:214:ASP:OD2	1.53	1.23
1:A:219:TYR:CE2	1:B:371:TYR:CG	1.83	1.23
1:A:165:TRP:NE1	1:B:110:ARG:HA	0.91	1.22
1:A:229:GLY:HA2	1:B:478:SER:CB	1.59	1.22
1:A:87:ILE:HG12	1:B:374:SER:O	1.25	1.22
1:B:277:ASN:CB	1:C:286:SER:O	1.85	1.22
1:B:385:PRO:HA	1:C:3:PRO:CD	1.68	1.22
1:B:400:ASP:HB2	1:C:193:SER:O	1.09	1.22
1:A:165:TRP:CZ2	1:B:109:GLU:C	2.14	1.22
1:B:274:ASN:CA	1:C:286:SER:CB	2.17	1.22
1:B:281:SER:HB3	1:C:8:SER:N	1.26	1.22
1:A:192:GLY:O	1:B:464:PRO:HG2	1.39	1.22
1:A:180:LYS:NZ	1:B:57:PHE:HB3	1.55	1.21
1:B:449:ASN:N	1:C:184:LYS:HZ1	1.36	1.21
1:B:404:ILE:CG1	1:C:223:ALA:HA	1.68	1.21
1:B:400:ASP:C	1:C:196:SER:HB2	1.51	1.21
1:A:222:ALA:CA	1:B:368:ILE:HD11	1.67	1.20
1:B:385:PRO:CA	1:C:3:PRO:CD	2.19	1.20
1:B:386:TYR:CE2	1:C:247:ASP:HB3	1.44	1.20
1:B:400:ASP:C	1:C:193:SER:CA	2.15	1.20
1:B:384:ASN:CA	1:C:2:THR:CG2	2.02	1.19
1:A:180:LYS:CE	1:B:11:ILE:C	2.15	1.19
1:A:229:GLY:HA3	1:B:477:SER:C	1.65	1.19
1:B:382:TYR:HA	1:C:1:ALA:HB3	1.21	1.19
1:A:184:LYS:HE2	1:B:362:ILE:HG22	1.25	1.19
1:A:185:ASN:HB2	1:B:366:ASN:CA	1.72	1.19
1:A:229:GLY:CA	1:B:477:SER:O	1.91	1.18
1:B:422:LEU:CD2	1:C:221:LYS:NZ	2.05	1.18
1:B:237:ALA:HB2	1:C:379:PHE:CA	1.73	1.18
1:B:424:GLY:CA	1:C:220:ASN:HB3	1.73	1.18
1:A:218:GLY:HA3	1:B:364:SER:C	1.69	1.18
1:A:225:VAL:N	1:B:465:THR:HG23	1.56	1.18
1:A:221:LYS:CG	1:B:436:VAL:N	1.96	1.18
1:A:188:TYR:CD2	1:B:366:ASN:C	2.15	1.17
1:B:277:ASN:HB3	1:C:286:SER:O	1.05	1.17
1:B:383:LYS:NZ	1:C:5:ASP:CB	2.07	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:449:ASN:N	1:C:184:LYS:NZ	1.91	1.17
1:A:200:ILE:HD12	1:B:467:LYS:CD	1.74	1.17
1:A:186:GLU:CG	1:B:370:ASN:CB	2.10	1.17
1:A:197:ASN:O	1:B:467:LYS:NZ	1.77	1.17
1:B:383:LYS:CG	1:C:6:TRP:CD1	2.27	1.17
1:A:180:LYS:CD	1:B:12:TYR:HB2	1.75	1.17
1:A:186:GLU:OE1	1:B:370:ASN:HA	1.42	1.17
1:B:281:SER:CB	1:C:8:SER:N	1.83	1.17
1:A:143:GLN:HG2	1:B:108:HIS:NE2	1.58	1.16
1:A:145:TYR:CD2	1:B:9:GLN:OE1	1.98	1.16
1:B:278:THR:CG2	1:C:381:THR:H	1.58	1.16
1:B:386:TYR:CD2	1:C:288:LEU:HD13	1.81	1.16
1:A:218:GLY:HA3	1:B:364:SER:O	1.43	1.16
1:A:221:LYS:CA	1:B:434:THR:CG2	2.08	1.16
1:B:238:TYR:CD2	1:C:376:ASP:HB2	1.80	1.16
1:A:101:LYS:HG2	1:A:198:TYR:HA	1.27	1.16
1:A:145:TYR:CD2	1:B:9:GLN:CD	2.11	1.16
1:B:9:GLN:HG3	1:B:58:THR:HB	1.28	1.16
1:B:274:ASN:C	1:C:286:SER:OG	1.89	1.15
1:A:196:SER:OG	1:B:400:ASP:O	1.63	1.15
1:A:407:ILE:HG23	1:A:461:VAL:HG22	1.19	1.15
1:A:229:GLY:HA3	1:B:478:SER:N	1.61	1.15
1:C:230:GLU:HA	1:C:250:LEU:HD23	1.25	1.15
1:B:399:THR:CG2	1:C:196:SER:O	1.95	1.15
1:B:444:VAL:C	1:C:185:ASN:ND2	2.04	1.15
1:A:189:ASP:HB2	1:B:369:ARG:HA	1.17	1.14
1:A:223:ALA:N	1:B:468:LEU:HD21	1.37	1.14
1:B:383:LYS:HZ3	1:C:5:ASP:CB	1.58	1.14
1:B:444:VAL:O	1:C:185:ASN:CG	1.91	1.14
1:A:116:VAL:O	1:B:469:ALA:CB	1.94	1.14
1:A:222:ALA:HB2	1:B:368:ILE:CG1	1.57	1.14
1:A:204:ARG:CB	1:B:470:GLY:HA3	1.65	1.14
1:A:225:VAL:H	1:B:465:THR:HG23	1.06	1.14
1:A:227:CYS:O	1:B:476:ASP:HA	1.44	1.14
1:A:230:GLU:HA	1:A:250:LEU:HD23	1.25	1.14
1:B:107:LEU:HA	1:B:110:ARG:HG2	1.26	1.14
1:B:401:GLY:N	1:C:193:SER:O	1.79	1.14
1:A:193:SER:CA	1:B:403:GLN:CA	2.19	1.14
1:A:222:ALA:HB1	1:B:368:ILE:CG1	1.56	1.14
1:A:227:CYS:C	1:B:476:ASP:CB	2.20	1.13
1:B:236:PRO:CG	1:C:378:GLY:CA	2.25	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:CYS:C	1:B:476:ASP:HB2	1.72	1.13
1:B:399:THR:HG21	1:C:196:SER:O	1.47	1.13
1:C:407:ILE:HG23	1:C:461:VAL:HG22	1.18	1.13
1:A:220:ASN:HA	1:B:473:ILE:HG23	1.17	1.13
1:A:229:GLY:HA3	1:B:478:SER:CA	1.79	1.13
1:A:146:PHE:N	1:B:112:MET:H	1.24	1.13
1:A:180:LYS:HE3	1:B:11:ILE:O	1.45	1.13
1:A:205:ILE:HD13	1:B:472:LYS:CG	1.78	1.13
1:A:219:TYR:CD1	1:B:473:ILE:CD1	2.32	1.13
1:A:219:TYR:CD1	1:B:473:ILE:HB	1.50	1.13
1:C:10:SER:HB3	1:C:57:PHE:HA	1.18	1.13
1:A:185:ASN:HA	1:A:188:TYR:HD2	1.08	1.13
1:B:400:ASP:CA	1:C:193:SER:O	1.96	1.13
1:A:184:LYS:HD2	1:B:363:ALA:CA	1.76	1.12
1:A:186:GLU:CD	1:B:370:ASN:HA	1.74	1.12
1:A:219:TYR:N	1:B:473:ILE:O	1.71	1.12
1:A:225:VAL:CA	1:B:465:THR:HG23	1.78	1.12
1:A:193:SER:C	1:B:403:GLN:HA	1.53	1.12
1:A:219:TYR:CE1	1:B:473:ILE:CD1	2.32	1.12
1:B:385:PRO:HD3	1:C:2:THR:HG22	1.12	1.12
1:B:386:TYR:CD2	1:C:288:LEU:CD1	2.31	1.12
1:A:9:GLN:HG3	1:A:58:THR:HB	1.28	1.12
1:B:319:ILE:HA	1:B:325:PRO:CB	1.79	1.12
1:A:87:ILE:HG13	1:B:374:SER:O	1.43	1.11
1:B:424:GLY:HA3	1:C:220:ASN:CB	1.79	1.11
1:A:205:ILE:CD1	1:B:478:SER:HB3	1.79	1.11
1:B:420:LEU:HD23	1:B:452:VAL:HG13	1.21	1.11
1:A:144:ASP:O	1:B:58:THR:O	1.66	1.11
1:A:184:LYS:HD2	1:B:363:ALA:HA	1.25	1.11
1:A:189:ASP:N	1:B:369:ARG:HA	1.65	1.11
1:B:387:ILE:N	1:C:247:ASP:OD2	1.83	1.11
1:C:165:TRP:HZ3	1:C:172:SER:HB2	1.14	1.11
1:A:186:GLU:OE1	1:B:373:ILE:CD1	1.98	1.11
1:A:196:SER:CB	1:B:401:GLY:O	1.77	1.11
1:B:230:GLU:HA	1:B:250:LEU:HD23	1.25	1.11
1:C:9:GLN:HG3	1:C:58:THR:HB	1.28	1.11
1:A:10:SER:HB3	1:A:57:PHE:HA	1.18	1.11
1:A:165:TRP:HZ2	1:B:109:GLU:O	0.76	1.11
1:A:217:PRO:HB2	1:B:437:ILE:O	1.50	1.11
1:A:319:ILE:HA	1:A:325:PRO:CB	1.79	1.11
1:B:384:ASN:HA	1:C:2:THR:HG21	1.13	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:422:LEU:HD21	1:C:221:LYS:HZ3	1.06	1.11
1:A:205:ILE:HD12	1:B:478:SER:CB	1.81	1.10
1:C:185:ASN:HA	1:C:188:TYR:HD2	1.08	1.10
1:C:319:ILE:HA	1:C:325:PRO:CB	1.79	1.10
1:A:191:VAL:HG21	1:B:473:ILE:CD1	1.80	1.10
1:A:205:ILE:HG13	1:B:476:ASP:OD1	1.49	1.10
1:B:45:ILE:HG23	1:B:49:LEU:HD11	1.11	1.10
1:A:205:ILE:HB	1:B:478:SER:OG	1.50	1.10
1:A:229:GLY:C	1:B:477:SER:O	1.95	1.10
1:A:249:VAL:HG12	1:B:477:SER:HB2	1.23	1.10
1:B:429:ALA:HB1	1:C:182:VAL:O	1.50	1.10
1:C:195:VAL:HG23	1:C:200:ILE:HB	1.27	1.10
1:A:107:LEU:HA	1:A:110:ARG:HG2	1.26	1.10
1:A:180:LYS:HG2	1:B:327:ILE:CG2	1.81	1.10
1:B:445:GLY:HA2	1:C:185:ASN:CB	1.80	1.10
1:C:45:ILE:HG23	1:C:49:LEU:HD11	1.11	1.10
1:C:420:LEU:HD23	1:C:452:VAL:HG13	1.21	1.10
1:A:45:ILE:HG23	1:A:49:LEU:HD11	1.11	1.09
1:A:191:VAL:CG2	1:B:473:ILE:HD11	1.81	1.09
1:A:87:ILE:CD1	1:B:374:SER:CA	2.29	1.09
1:B:101:LYS:HG2	1:B:198:TYR:HA	1.27	1.09
1:B:383:LYS:CE	1:C:5:ASP:HB2	1.82	1.09
1:A:116:VAL:C	1:B:469:ALA:HB1	1.57	1.09
1:A:196:SER:HB3	1:B:401:GLY:O	1.27	1.09
1:B:195:VAL:HG23	1:B:200:ILE:HB	1.27	1.09
1:C:101:LYS:HG2	1:C:198:TYR:HA	1.27	1.09
1:C:107:LEU:HA	1:C:110:ARG:HG2	1.26	1.09
1:C:115:MET:HE1	1:C:204:ARG:HB2	1.26	1.09
1:C:123:MET:HG3	1:C:146:PHE:HE1	1.16	1.09
1:A:87:ILE:CG1	1:B:374:SER:CA	2.27	1.09
1:A:180:LYS:HE3	1:B:12:TYR:N	1.68	1.09
1:A:229:GLY:HA2	1:B:478:SER:HB3	1.34	1.09
1:B:123:MET:HB3	1:B:137:PHE:CE1	1.87	1.09
1:B:446:SER:OG	1:C:181:ASP:CG	1.95	1.09
1:A:145:TYR:CE1	1:B:113:TYR:CE2	2.42	1.08
1:A:205:ILE:CG1	1:B:478:SER:HB3	1.83	1.08
1:B:123:MET:HB3	1:B:137:PHE:HE1	1.15	1.08
1:A:219:TYR:CD1	1:B:473:ILE:CB	2.27	1.08
1:B:236:PRO:HG2	1:C:378:GLY:CA	1.83	1.08
1:B:319:ILE:HA	1:B:325:PRO:HB3	1.32	1.08
1:B:407:ILE:HG23	1:B:461:VAL:HG22	1.19	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:444:VAL:O	1:C:185:ASN:CB	2.01	1.08
1:A:115:MET:HE1	1:A:204:ARG:HB2	1.26	1.08
1:A:123:MET:HB3	1:A:137:PHE:CE1	1.87	1.08
1:B:123:MET:HG3	1:B:146:PHE:HE1	1.17	1.08
1:B:430:GLY:N	1:C:185:ASN:ND2	1.97	1.08
1:C:319:ILE:HG22	1:C:325:PRO:HB2	1.35	1.08
1:B:185:ASN:HA	1:B:188:TYR:HD2	1.08	1.08
1:A:123:MET:HG3	1:A:146:PHE:HE1	1.17	1.08
1:A:319:ILE:HA	1:A:325:PRO:HB3	1.32	1.08
1:C:123:MET:HB3	1:C:137:PHE:HE1	1.15	1.08
1:A:2:THR:HB	1:A:3:PRO:HD2	1.34	1.07
1:A:116:VAL:O	1:B:470:GLY:N	1.87	1.07
1:A:143:GLN:HG2	1:B:108:HIS:CG	1.88	1.07
1:B:383:LYS:O	1:C:3:PRO:CD	2.01	1.07
1:B:446:SER:CB	1:C:181:ASP:OD1	1.99	1.07
1:C:123:MET:HB3	1:C:137:PHE:CE1	1.87	1.07
1:B:279:VAL:HG13	1:C:4:ALA:CB	1.84	1.07
1:B:429:ALA:HB3	1:C:182:VAL:O	1.53	1.07
1:A:180:LYS:CE	1:B:11:ILE:O	2.03	1.07
1:A:205:ILE:CG1	1:B:476:ASP:OD1	2.02	1.07
1:A:319:ILE:HG22	1:A:325:PRO:HB2	1.35	1.07
1:B:2:THR:HB	1:B:3:PRO:HD2	1.34	1.07
1:B:236:PRO:CG	1:C:378:GLY:HA2	1.46	1.07
1:B:383:LYS:CB	1:C:6:TRP:CD1	2.38	1.07
1:B:445:GLY:HA2	1:C:185:ASN:HD22	0.97	1.07
1:B:115:MET:HE1	1:B:204:ARG:HB2	1.26	1.06
1:A:420:LEU:HD23	1:A:452:VAL:HG13	1.21	1.06
1:B:274:ASN:CA	1:C:286:SER:CA	2.33	1.06
1:B:319:ILE:HG22	1:B:325:PRO:HB2	1.35	1.06
1:A:190:TRP:CE2	1:B:374:SER:CB	2.35	1.06
1:A:193:SER:HA	1:B:403:GLN:HA	1.16	1.06
1:B:235:ASP:OD1	1:C:399:THR:HG21	1.37	1.06
1:B:422:LEU:CD2	1:C:221:LYS:HZ3	1.65	1.06
1:C:45:ILE:HB	1:C:103:LEU:HD21	1.11	1.06
1:C:319:ILE:HA	1:C:325:PRO:HB3	1.32	1.06
1:B:387:ILE:HG23	1:C:221:LYS:HE3	1.31	1.06
1:B:422:LEU:HD21	1:C:221:LYS:NZ	1.65	1.06
1:A:84:GLN:NE2	1:B:375:LYS:NZ	2.04	1.06
1:A:165:TRP:HZ3	1:A:172:SER:HB2	1.14	1.06
1:A:220:ASN:HA	1:B:473:ILE:CG2	1.84	1.06
1:B:45:ILE:HB	1:B:103:LEU:HD21	1.11	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:238:TYR:O	1:C:376:ASP:HA	1.55	1.06
1:B:401:GLY:N	1:C:193:SER:CA	2.19	1.06
1:A:187:TRP:CE3	1:B:371:TYR:HA	1.91	1.05
1:A:190:TRP:CH2	1:B:375:LYS:HD3	1.80	1.05
1:A:219:TYR:CG	1:B:473:ILE:HG13	1.89	1.05
1:B:384:ASN:CA	1:C:2:THR:HG21	1.75	1.05
1:B:445:GLY:HA2	1:C:185:ASN:ND2	1.54	1.05
1:A:147:HIS:HA	1:B:112:MET:HE3	1.05	1.05
1:A:248:GLY:C	1:B:477:SER:HB3	1.79	1.05
1:B:165:TRP:HZ3	1:B:172:SER:HB2	1.14	1.05
1:B:278:THR:HA	1:C:380:VAL:HG21	1.21	1.05
1:B:278:THR:CG2	1:C:381:THR:OG1	2.04	1.05
1:A:190:TRP:HZ3	1:B:371:TYR:CE1	1.65	1.05
1:A:45:ILE:HB	1:A:103:LEU:HD21	1.11	1.05
1:A:147:HIS:O	1:B:107:LEU:O	1.73	1.05
1:B:274:ASN:CA	1:C:286:SER:OG	2.01	1.05
1:A:190:TRP:CE2	1:B:374:SER:HB2	1.91	1.05
1:A:219:TYR:CG	1:B:473:ILE:CG1	2.37	1.05
1:A:224:GLY:HA2	1:B:434:THR:CB	1.87	1.05
1:B:278:THR:HG23	1:C:381:THR:H	0.89	1.05
1:A:197:ASN:N	1:B:467:LYS:HE3	1.72	1.04
1:A:204:ARG:HB2	1:B:470:GLY:HA3	1.08	1.04
1:A:227:CYS:C	1:B:476:ASP:HA	1.80	1.04
1:B:383:LYS:O	1:C:3:PRO:HD2	1.56	1.04
1:B:404:ILE:CD1	1:C:223:ALA:HA	1.78	1.04
1:B:444:VAL:C	1:C:185:ASN:CG	2.25	1.04
1:A:83:TRP:HE1	1:A:173:LEU:HD21	1.19	1.04
1:A:187:TRP:HE3	1:B:371:TYR:HA	1.16	1.04
1:A:205:ILE:HD13	1:B:472:LYS:HG2	1.32	1.04
1:B:445:GLY:N	1:C:185:ASN:HD22	1.39	1.04
1:A:222:ALA:CB	1:B:368:ILE:CD1	2.32	1.04
1:B:235:ASP:OD1	1:C:399:THR:HG23	1.57	1.04
1:B:401:GLY:N	1:C:193:SER:HA	1.73	1.04
1:A:180:LYS:HG3	1:B:12:TYR:CD2	1.93	1.04
1:A:229:GLY:HA3	1:B:478:SER:CB	1.75	1.04
1:B:402:SER:H	1:C:193:SER:CA	1.71	1.04
1:C:432:GLN:HG2	1:C:465:THR:HG21	1.40	1.04
1:A:221:LYS:CB	1:B:436:VAL:CA	1.79	1.03
1:A:225:VAL:CG2	1:B:465:THR:HG23	1.86	1.03
1:B:237:ALA:CB	1:C:378:GLY:C	2.17	1.03
1:B:402:SER:N	1:C:193:SER:CB	2.20	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2:THR:HB	1:C:3:PRO:HD2	1.34	1.03
1:A:180:LYS:HD2	1:B:12:TYR:HB2	1.06	1.03
1:A:118:VAL:HB	1:B:471:SER:HB2	1.37	1.03
1:A:205:ILE:HD12	1:B:478:SER:OXT	1.57	1.03
1:A:180:LYS:CE	1:B:57:PHE:CB	2.36	1.03
1:B:382:TYR:CA	1:C:1:ALA:HB3	1.82	1.03
1:B:387:ILE:CG2	1:C:221:LYS:CE	2.21	1.03
1:A:146:PHE:N	1:B:112:MET:N	2.07	1.03
1:A:180:LYS:HA	1:B:55:MET:HG3	1.38	1.03
1:A:204:ARG:HG3	1:A:228:ILE:HB	1.37	1.03
1:A:221:LYS:HG3	1:B:436:VAL:N	1.67	1.02
1:A:432:GLN:HG2	1:A:465:THR:HG21	1.40	1.02
1:C:234:GLY:HA2	1:C:253:PRO:HD3	1.41	1.02
1:A:177:ASP:HB3	1:B:53:GLN:CB	1.90	1.02
1:A:180:LYS:HZ3	1:B:57:PHE:HB3	1.04	1.02
1:A:208:VAL:HG21	1:B:478:SER:N	1.44	1.02
1:A:123:MET:HB3	1:A:137:PHE:HE1	1.15	1.02
1:A:180:LYS:NZ	1:B:10:SER:O	1.92	1.02
1:A:180:LYS:NZ	1:B:57:PHE:CB	2.22	1.02
1:A:180:LYS:HZ3	1:B:10:SER:C	1.68	1.02
1:A:204:ARG:O	1:B:471:SER:CA	1.98	1.02
1:B:234:GLY:HA2	1:B:253:PRO:HD3	1.41	1.02
1:C:204:ARG:HG3	1:C:228:ILE:HB	1.37	1.02
1:A:87:ILE:HD13	1:B:374:SER:CB	1.89	1.02
1:A:234:GLY:HA2	1:A:253:PRO:HD3	1.42	1.02
1:A:246:MET:HB2	1:B:477:SER:N	1.39	1.02
1:A:249:VAL:CB	1:B:477:SER:OG	2.07	1.02
1:B:204:ARG:HG3	1:B:228:ILE:HB	1.37	1.02
1:B:387:ILE:HG21	1:C:221:LYS:HE2	1.36	1.02
1:B:432:GLN:HG2	1:B:465:THR:HG21	1.40	1.02
1:A:42:TRP:HE1	1:A:62:ILE:HD11	1.24	1.02
1:A:225:VAL:CB	1:B:465:THR:HG23	1.89	1.02
1:B:83:TRP:HE1	1:B:173:LEU:HD21	1.19	1.02
1:B:208:VAL:HG12	1:B:231:VAL:HG12	1.42	1.02
1:C:208:VAL:HG12	1:C:231:VAL:HG12	1.42	1.02
1:A:143:GLN:NE2	1:B:108:HIS:CG	2.27	1.01
1:A:190:TRP:CE3	1:B:374:SER:HB2	1.94	1.01
1:B:32:THR:HG21	1:B:342:ALA:HA	1.42	1.01
1:C:83:TRP:HE1	1:C:173:LEU:HD21	1.19	1.01
1:B:383:LYS:HZ3	1:C:5:ASP:HB2	0.88	1.01
1:B:401:GLY:N	1:C:196:SER:CB	2.22	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:188:TYR:CE2	1:B:367:ALA:N	2.27	1.01
1:A:219:TYR:HE1	1:B:471:SER:OG	1.42	1.01
1:B:305:THR:HG21	1:B:310:LEU:HD22	1.01	1.01
1:B:449:ASN:CB	1:C:184:LYS:NZ	2.22	1.01
1:C:42:TRP:HE1	1:C:62:ILE:HD11	1.24	1.01
1:C:305:THR:HG21	1:C:310:LEU:HD22	1.01	1.01
1:A:230:GLU:N	1:B:478:SER:HB2	1.75	1.01
1:B:42:TRP:HE1	1:B:62:ILE:HD11	1.24	1.01
1:B:277:ASN:ND2	1:C:286:SER:HB3	1.76	1.01
1:B:280:LYS:NZ	1:C:226:TYR:HB2	1.74	1.01
1:A:189:ASP:H	1:B:369:ARG:HA	0.94	1.00
1:B:402:SER:N	1:C:193:SER:OG	1.93	1.00
1:A:143:GLN:HG2	1:B:108:HIS:HD2	1.23	1.00
1:A:165:TRP:CE2	1:B:110:ARG:HA	1.96	1.00
1:A:194:LEU:CA	1:B:403:GLN:HG2	1.91	1.00
1:A:219:TYR:CD1	1:B:473:ILE:CG1	2.43	1.00
1:B:274:ASN:O	1:C:286:SER:HA	1.61	1.00
1:C:11:ILE:HG12	1:C:324:LEU:HD23	1.42	1.00
1:A:229:GLY:O	1:B:477:SER:O	1.80	1.00
1:A:305:THR:HG21	1:A:310:LEU:HD22	1.01	1.00
1:B:119:VAL:HG23	1:B:206:ASP:HB2	1.44	1.00
1:B:422:LEU:HD22	1:C:221:LYS:NZ	1.74	1.00
1:C:32:THR:HG21	1:C:342:ALA:HA	1.42	1.00
1:A:32:THR:HG21	1:A:342:ALA:HA	1.42	1.00
1:A:87:ILE:HG12	1:B:374:SER:HA	1.42	1.00
1:A:180:LYS:CE	1:B:57:PHE:HB3	1.92	1.00
1:A:189:ASP:CB	1:B:369:ARG:HA	1.92	1.00
1:A:227:CYS:HB2	1:B:476:ASP:CB	1.91	1.00
1:B:64:PRO:HG3	1:B:82:TYR:HA	1.44	1.00
1:B:274:ASN:HA	1:C:286:SER:HB2	1.41	1.00
1:B:11:ILE:HG12	1:B:324:LEU:HD23	1.42	0.99
1:C:433:LEU:HD23	1:C:444:VAL:HG11	1.44	0.99
1:A:179:THR:C	1:B:55:MET:HB2	1.87	0.99
1:A:165:TRP:CD1	1:B:110:ARG:HA	1.98	0.99
1:A:227:CYS:C	1:B:476:ASP:CA	2.35	0.99
1:A:433:LEU:HD23	1:A:444:VAL:HG11	1.44	0.99
1:B:258:LEU:HD21	1:B:314:VAL:HG23	1.44	0.99
1:C:230:GLU:CA	1:C:250:LEU:HD23	1.92	0.99
1:B:385:PRO:HG3	1:C:224:GLY:O	1.63	0.99
1:A:208:VAL:HG12	1:A:231:VAL:HG12	1.42	0.99
1:B:383:LYS:CB	1:C:6:TRP:HD1	1.73	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:444:VAL:O	1:C:185:ASN:HB2	1.61	0.99
1:A:11:ILE:HG12	1:A:324:LEU:HD23	1.42	0.99
1:A:191:VAL:HG21	1:B:473:ILE:HD11	0.99	0.99
1:A:152:ILE:HD11	1:A:166:LEU:HA	1.45	0.98
1:A:246:MET:HB3	1:B:477:SER:N	1.44	0.98
1:B:429:ALA:HB3	1:C:186:GLU:HB3	1.42	0.98
1:A:221:LYS:HG3	1:B:436:VAL:H	0.83	0.98
1:B:230:GLU:CA	1:B:250:LEU:HD23	1.92	0.98
1:A:145:TYR:HE1	1:B:113:TYR:CE2	1.79	0.98
1:C:64:PRO:HG3	1:C:82:TYR:HA	1.44	0.98
1:A:180:LYS:HD3	1:B:57:PHE:CG	1.72	0.98
1:A:219:TYR:HE2	1:B:371:TYR:HB2	0.82	0.98
1:B:383:LYS:CD	1:C:5:ASP:HB2	1.94	0.98
1:A:230:GLU:CA	1:A:250:LEU:HD23	1.92	0.98
1:B:387:ILE:CA	1:C:247:ASP:OD2	2.12	0.98
1:C:152:ILE:HD11	1:C:166:LEU:HA	1.45	0.98
1:A:184:LYS:HE2	1:B:362:ILE:CG2	1.84	0.98
1:A:219:TYR:CE1	1:B:471:SER:OG	2.17	0.98
1:A:45:ILE:HG23	1:A:49:LEU:CD1	1.93	0.98
1:A:225:VAL:N	1:B:465:THR:CB	2.04	0.98
1:A:184:LYS:CD	1:B:363:ALA:HA	1.93	0.98
1:B:185:ASN:HA	1:B:188:TYR:CD2	1.99	0.98
1:A:208:VAL:HB	1:B:478:SER:OG	1.11	0.97
1:A:227:CYS:HB3	1:B:476:ASP:HB3	1.45	0.97
1:A:183:VAL:CA	1:B:370:ASN:ND2	1.78	0.97
1:B:45:ILE:HG23	1:B:49:LEU:CD1	1.93	0.97
1:A:64:PRO:HG3	1:A:82:TYR:HA	1.44	0.97
1:A:249:VAL:HB	1:B:477:SER:OG	1.64	0.97
1:B:385:PRO:HA	1:C:3:PRO:HD3	0.99	0.97
1:B:386:TYR:CE2	1:C:247:ASP:CB	2.37	0.97
1:C:258:LEU:HD21	1:C:314:VAL:HG23	1.43	0.97
1:B:188:TYR:HE1	1:B:218:GLY:HA3	1.29	0.97
1:C:45:ILE:HG23	1:C:49:LEU:CD1	1.93	0.97
1:A:119:VAL:HG23	1:A:206:ASP:HB2	1.44	0.97
1:A:186:GLU:HG3	1:B:370:ASN:HB3	0.97	0.97
1:A:225:VAL:CG2	1:B:465:THR:CG2	2.38	0.97
1:B:216:TRP:HB2	1:B:245:VAL:HG22	1.47	0.97
1:C:119:VAL:HG23	1:C:206:ASP:HB2	1.44	0.97
1:A:188:TYR:HE1	1:A:218:GLY:HA3	1.29	0.97
1:A:190:TRP:HZ2	1:B:375:LYS:HD2	1.22	0.97
1:A:194:LEU:HD13	1:B:375:LYS:CB	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:GLY:H	1:B:364:SER:HB3	1.30	0.97
1:B:433:LEU:HD23	1:B:444:VAL:HG11	1.44	0.97
1:A:194:LEU:HD13	1:B:375:LYS:HB3	1.47	0.96
1:C:216:TRP:HB2	1:C:245:VAL:HG22	1.47	0.96
1:A:229:GLY:CA	1:B:477:SER:C	2.34	0.96
1:B:383:LYS:HB3	1:C:6:TRP:HD1	1.26	0.96
1:B:386:TYR:CG	1:C:288:LEU:CD1	2.47	0.96
1:A:180:LYS:O	1:B:57:PHE:N	1.84	0.96
1:A:185:ASN:HA	1:A:188:TYR:CD2	1.99	0.96
1:B:152:ILE:HD11	1:B:166:LEU:HA	1.45	0.96
1:B:400:ASP:O	1:C:193:SER:HA	1.62	0.96
1:B:445:GLY:HA3	1:C:185:ASN:HD22	1.30	0.96
1:C:185:ASN:HA	1:C:188:TYR:CD2	1.99	0.96
1:A:180:LYS:NZ	1:B:10:SER:C	2.23	0.96
1:A:186:GLU:CG	1:B:370:ASN:CA	2.43	0.96
1:A:190:TRP:CE3	1:B:371:TYR:CD1	2.53	0.96
1:A:220:ASN:CA	1:B:473:ILE:CG2	2.43	0.96
1:A:10:SER:HB3	1:A:57:PHE:CA	1.96	0.96
1:A:221:LYS:CA	1:B:474:CYS:SG	2.53	0.96
1:B:277:ASN:HB2	1:C:286:SER:CB	1.96	0.96
1:C:10:SER:HB3	1:C:57:PHE:CA	1.96	0.96
1:A:182:VAL:HB	1:B:10:SER:C	1.90	0.96
1:A:258:LEU:HD21	1:A:314:VAL:HG23	1.44	0.96
1:B:400:ASP:C	1:C:193:SER:O	2.08	0.96
1:A:143:GLN:NE2	1:B:108:HIS:ND1	2.12	0.96
1:A:196:SER:HB3	1:B:403:GLN:HG3	1.48	0.96
1:C:208:VAL:HG21	1:C:246:MET:SD	2.06	0.96
1:A:88:TYR:HE2	1:B:373:ILE:C	1.66	0.96
1:B:208:VAL:HG21	1:B:246:MET:SD	2.06	0.96
1:B:388:LYS:HA	1:C:244:ASN:O	1.64	0.96
1:A:208:VAL:HG21	1:A:246:MET:SD	2.06	0.96
1:B:238:TYR:HA	1:C:376:ASP:CB	1.94	0.96
1:B:279:VAL:HG13	1:C:4:ALA:HB1	0.98	0.95
1:C:146:PHE:HA	1:C:176:LEU:HA	1.48	0.95
1:C:305:THR:HG21	1:C:310:LEU:CD2	1.96	0.95
1:A:229:GLY:HA2	1:B:478:SER:HB2	1.22	0.95
1:C:45:ILE:CB	1:C:103:LEU:HD21	1.95	0.95
1:A:146:PHE:HA	1:A:176:LEU:HA	1.48	0.95
1:A:45:ILE:CB	1:A:103:LEU:HD21	1.95	0.95
1:A:436:VAL:HG13	1:A:437:ILE:HG13	1.47	0.95
1:B:276:ILE:O	1:C:4:ALA:CB	2.13	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:278:THR:HA	1:C:380:VAL:HG22	0.97	0.95
1:B:386:TYR:CZ	1:C:288:LEU:HD13	2.01	0.95
1:B:449:ASN:H	1:C:184:LYS:HZ1	1.07	0.95
1:A:189:ASP:HB2	1:B:369:ARG:CA	1.96	0.95
1:A:193:SER:HA	1:B:403:GLN:CA	1.80	0.95
1:A:305:THR:HG21	1:A:310:LEU:CD2	1.96	0.95
1:A:186:GLU:HG3	1:B:370:ASN:CA	1.97	0.95
1:B:45:ILE:CB	1:B:103:LEU:HD21	1.95	0.95
1:B:278:THR:C	1:C:380:VAL:HG11	1.90	0.94
1:B:281:SER:HB2	1:C:6:TRP:C	1.92	0.94
1:B:382:TYR:O	1:C:2:THR:CG2	2.15	0.94
1:B:235:ASP:OD2	1:C:399:THR:HG22	1.63	0.94
1:B:305:THR:HG21	1:B:310:LEU:CD2	1.96	0.94
1:B:446:SER:OG	1:C:181:ASP:OD1	1.84	0.94
1:C:436:VAL:HG13	1:C:437:ILE:HG13	1.47	0.94
1:A:200:ILE:CD1	1:B:467:LYS:NZ	2.30	0.94
1:A:218:GLY:N	1:B:364:SER:HB3	1.80	0.94
1:A:227:CYS:HB3	1:B:476:ASP:HB2	0.94	0.94
1:A:2:THR:CA	1:B:432:GLN:NE2	2.19	0.94
1:A:143:GLN:HE21	1:B:108:HIS:CG	1.84	0.94
1:C:188:TYR:HE1	1:C:218:GLY:HA3	1.29	0.94
1:A:189:ASP:N	1:B:369:ARG:CA	2.13	0.94
1:B:436:VAL:HG13	1:B:437:ILE:HG13	1.47	0.94
1:A:165:TRP:CZ3	1:A:172:SER:HB2	2.02	0.94
1:A:216:TRP:HB2	1:A:245:VAL:HG22	1.47	0.94
1:A:229:GLY:C	1:B:478:SER:HB2	1.91	0.94
1:A:188:TYR:CD2	1:B:367:ALA:N	2.35	0.94
1:B:146:PHE:HA	1:B:176:LEU:HA	1.48	0.94
1:B:277:ASN:CG	1:C:286:SER:HB3	1.93	0.94
1:B:406:THR:CG2	1:C:221:LYS:O	2.16	0.94
1:A:217:PRO:CB	1:B:437:ILE:O	2.16	0.94
1:A:229:GLY:CA	1:B:478:SER:HB3	1.88	0.94
1:B:165:TRP:CZ3	1:B:172:SER:HB2	2.02	0.94
1:B:274:ASN:C	1:C:286:SER:HA	1.93	0.94
1:A:198:TYR:HB2	1:B:467:LYS:NZ	1.81	0.94
1:A:200:ILE:HD11	1:B:467:LYS:HZ3	1.33	0.94
1:B:11:ILE:HD13	1:B:326:ILE:HG12	1.49	0.94
1:B:238:TYR:CA	1:C:377:THR:N	2.30	0.93
1:A:11:ILE:HD13	1:A:326:ILE:HG12	1.49	0.93
1:A:190:TRP:CD1	1:B:372:ALA:O	1.92	0.93
1:A:200:ILE:HD12	1:B:467:LYS:CE	1.97	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:11:ILE:HD13	1:C:326:ILE:HG12	1.49	0.93
1:A:228:ILE:N	1:B:476:ASP:CB	2.31	0.93
1:B:396:ARG:C	1:C:224:GLY:HA2	1.91	0.93
1:B:404:ILE:HD11	1:C:223:ALA:CA	1.81	0.93
1:B:445:GLY:HA2	1:C:185:ASN:CG	1.93	0.93
1:A:194:LEU:CD2	1:B:375:LYS:CG	2.24	0.93
1:B:382:TYR:O	1:C:2:THR:HG23	1.67	0.93
1:B:427:TYR:N	1:C:188:TYR:CD1	2.36	0.93
1:A:208:VAL:HG23	1:A:216:TRP:CE2	2.04	0.93
1:A:183:VAL:HA	1:B:370:ASN:ND2	1.82	0.93
1:A:205:ILE:HG12	1:B:471:SER:O	1.66	0.93
1:A:205:ILE:HG23	1:B:472:LYS:N	1.84	0.93
1:A:69:LEU:HB2	1:A:71:GLN:HE21	1.34	0.93
1:A:180:LYS:CD	1:B:57:PHE:CG	2.25	0.93
1:C:69:LEU:HB2	1:C:71:GLN:HE21	1.34	0.93
1:A:148:PRO:HD3	1:B:49:LEU:HD23	1.49	0.93
1:A:225:VAL:HG23	1:B:465:THR:CG2	1.80	0.93
1:B:235:ASP:CG	1:C:399:THR:HG23	1.86	0.93
1:C:165:TRP:CZ3	1:C:172:SER:HB2	2.02	0.93
1:C:208:VAL:HG23	1:C:216:TRP:CE2	2.04	0.93
1:A:248:GLY:O	1:B:477:SER:CB	2.16	0.93
1:A:216:TRP:O	1:B:473:ILE:O	1.87	0.92
1:B:238:TYR:CA	1:C:376:ASP:CA	2.33	0.92
1:B:386:TYR:CE2	1:C:288:LEU:CD1	2.47	0.92
1:A:143:GLN:OE1	1:B:108:HIS:HA	1.68	0.92
1:B:238:TYR:C	1:C:377:THR:N	2.28	0.92
1:C:308:ILE:HG22	1:C:312:LYS:HE3	1.50	0.92
1:B:208:VAL:HG23	1:B:216:TRP:CE2	2.04	0.92
1:A:205:ILE:CG1	1:B:471:SER:C	2.42	0.92
1:B:69:LEU:HB2	1:B:71:GLN:HE21	1.34	0.92
1:B:278:THR:O	1:C:380:VAL:CG2	2.18	0.92
1:A:186:GLU:CG	1:B:370:ASN:HB3	1.89	0.92
1:B:236:PRO:HG2	1:C:378:GLY:C	1.95	0.92
1:A:230:GLU:H	1:B:478:SER:HB2	1.29	0.92
1:B:383:LYS:HD2	1:C:5:ASP:HB2	1.48	0.92
1:A:197:ASN:O	1:B:467:LYS:CE	2.18	0.92
1:B:277:ASN:CB	1:C:286:SER:HB3	1.99	0.92
1:A:144:ASP:C	1:B:58:THR:O	2.13	0.91
1:A:182:VAL:H	1:B:57:PHE:CB	1.82	0.91
1:A:205:ILE:HG23	1:B:472:LYS:HG3	1.50	0.91
1:B:274:ASN:CA	1:C:286:SER:HA	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:145:TYR:CE2	1:B:9:GLN:HB2	2.06	0.91
1:A:178:THR:HB	1:B:57:PHE:O	1.71	0.91
1:A:194:LEU:HB2	1:B:375:LYS:HB3	1.53	0.91
1:A:185:ASN:CB	1:B:366:ASN:CA	2.21	0.91
1:B:308:ILE:HG22	1:B:312:LYS:HE3	1.50	0.91
1:B:209:LYS:HB3	1:B:231:VAL:HG21	1.52	0.91
1:B:273:TYR:CD1	1:B:389:ASP:HB3	2.05	0.91
1:C:273:TYR:CD1	1:C:389:ASP:HB3	2.06	0.91
1:A:180:LYS:HG2	1:B:327:ILE:HG21	1.49	0.91
1:A:180:LYS:H	1:B:55:MET:CB	1.76	0.91
1:A:208:VAL:HA	1:A:216:TRP:CZ2	2.06	0.91
1:A:222:ALA:CA	1:B:368:ILE:HD12	1.99	0.91
1:B:383:LYS:HG3	1:C:6:TRP:NE1	1.84	0.91
1:C:208:VAL:HA	1:C:216:TRP:CZ2	2.06	0.91
1:B:274:ASN:O	1:C:286:SER:CA	2.19	0.91
1:B:396:ARG:C	1:C:224:GLY:CA	2.44	0.91
1:B:432:GLN:CG	1:B:465:THR:HG21	2.01	0.91
1:A:191:VAL:O	1:B:467:LYS:O	1.88	0.91
1:A:308:ILE:HG22	1:A:312:LYS:HE3	1.50	0.90
1:B:305:THR:CG2	1:B:310:LEU:HD22	1.97	0.90
1:B:400:ASP:CA	1:C:193:SER:C	2.44	0.90
1:A:87:ILE:HG13	1:B:374:SER:C	1.85	0.90
1:A:273:TYR:CD1	1:A:389:ASP:HB3	2.05	0.90
1:B:449:ASN:ND2	1:C:214:ASP:C	2.25	0.90
1:A:180:LYS:CG	1:B:12:TYR:CD2	2.54	0.90
1:A:249:VAL:CG1	1:B:477:SER:CB	2.48	0.90
1:B:241:PRO:O	1:C:374:SER:HA	1.11	0.90
1:B:401:GLY:N	1:C:193:SER:C	2.29	0.90
1:A:209:LYS:HB3	1:A:231:VAL:HG21	1.52	0.90
1:A:222:ALA:HB2	1:B:368:ILE:HG13	1.19	0.90
1:B:208:VAL:HA	1:B:216:TRP:CZ2	2.06	0.90
1:C:209:LYS:HB3	1:C:231:VAL:HG21	1.52	0.90
1:B:238:TYR:HB2	1:C:376:ASP:CG	1.96	0.90
1:A:185:ASN:HB2	1:B:366:ASN:HA	0.91	0.90
1:A:217:PRO:O	1:B:474:CYS:HA	1.72	0.90
1:A:145:TYR:CE2	1:B:9:GLN:CB	2.55	0.90
1:B:241:PRO:HB2	1:C:374:SER:C	1.97	0.90
1:C:319:ILE:CG2	1:C:325:PRO:HB2	2.01	0.90
1:A:145:TYR:CE1	1:B:113:TYR:HE2	1.85	0.90
1:A:205:ILE:HD12	1:B:478:SER:HB3	1.42	0.90
1:B:429:ALA:HB3	1:C:186:GLU:CB	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:191:VAL:HG11	1:C:219:TYR:CZ	2.07	0.90
1:C:432:GLN:CG	1:C:465:THR:HG21	2.01	0.90
1:A:147:HIS:CA	1:B:112:MET:HE3	1.98	0.90
1:B:182:VAL:HG13	1:B:183:VAL:H	1.37	0.90
1:B:382:TYR:CD1	1:C:2:THR:CG2	2.55	0.90
1:B:383:LYS:CE	1:C:5:ASP:CB	2.48	0.90
1:C:365:ALA:O	1:C:368:ILE:HG22	1.72	0.90
1:A:180:LYS:C	1:B:55:MET:HB3	1.96	0.89
1:A:184:LYS:H	1:B:56:GLY:HA2	1.34	0.89
1:A:190:TRP:HH2	1:B:375:LYS:CD	1.77	0.89
1:B:191:VAL:HG11	1:B:219:TYR:CZ	2.07	0.89
1:B:382:TYR:HD1	1:C:2:THR:HG23	1.15	0.89
1:C:433:LEU:HB2	1:C:442:VAL:HG12	1.54	0.89
1:A:190:TRP:CD2	1:B:374:SER:CB	2.55	0.89
1:B:280:LYS:O	1:C:7:ARG:N	2.05	0.89
1:C:257:PRO:HA	1:C:260:ASN:HB2	1.53	0.89
1:A:319:ILE:CG2	1:A:325:PRO:HB2	2.01	0.89
1:B:293:VAL:HG13	1:B:294:GLU:H	1.36	0.89
1:B:319:ILE:CG2	1:B:325:PRO:HB2	2.01	0.89
1:A:229:GLY:CA	1:A:246:MET:HE1	2.03	0.89
1:A:432:GLN:CG	1:A:465:THR:HG21	2.01	0.89
1:C:35:GLN:HB3	1:C:79:TYR:CE1	2.07	0.89
1:A:187:TRP:C	1:B:367:ALA:O	2.15	0.89
1:B:404:ILE:CD1	1:C:223:ALA:CA	2.43	0.89
1:B:404:ILE:HG12	1:C:223:ALA:HA	1.51	0.89
1:A:10:SER:CB	1:A:57:PHE:HA	2.03	0.89
1:A:180:LYS:H	1:B:55:MET:HB2	1.20	0.89
1:A:184:LYS:HD2	1:B:363:ALA:C	1.97	0.89
1:A:192:GLY:O	1:B:464:PRO:CG	2.20	0.89
1:A:257:PRO:HA	1:A:260:ASN:HB2	1.53	0.89
1:A:433:LEU:HB2	1:A:442:VAL:HG12	1.54	0.89
1:B:229:GLY:CA	1:B:246:MET:HE1	2.03	0.89
1:B:236:PRO:HB2	1:C:380:VAL:HG12	1.55	0.89
1:B:408:LEU:HD11	1:B:462:LEU:HD21	1.54	0.89
1:C:10:SER:CB	1:C:57:PHE:HA	2.03	0.89
1:C:408:LEU:HD11	1:C:462:LEU:HD21	1.53	0.89
1:A:180:LYS:CA	1:B:55:MET:CG	2.42	0.89
1:A:184:LYS:H	1:B:56:GLY:CA	1.85	0.89
1:A:186:GLU:CG	1:B:370:ASN:HA	2.02	0.89
1:B:400:ASP:C	1:C:193:SER:C	2.40	0.89
1:A:180:LYS:HB3	1:B:12:TYR:CD2	2.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:293:VAL:HG13	1:A:294:GLU:H	1.36	0.89
1:A:365:ALA:O	1:A:368:ILE:HG22	1.72	0.89
1:A:35:GLN:HB3	1:A:79:TYR:CE1	2.07	0.88
1:B:277:ASN:HB2	1:C:286:SER:HB3	1.55	0.88
1:B:445:GLY:HA2	1:C:185:ASN:HB3	1.54	0.88
1:C:11:ILE:CD1	1:C:324:LEU:HB3	2.04	0.88
1:B:208:VAL:HG12	1:B:231:VAL:CG1	2.04	0.88
1:A:200:ILE:HG21	1:B:467:LYS:HA	1.55	0.88
1:A:205:ILE:HG13	1:B:478:SER:HB3	1.54	0.88
1:B:257:PRO:HA	1:B:260:ASN:HB2	1.53	0.88
1:C:208:VAL:HG12	1:C:231:VAL:CG1	2.04	0.88
1:C:229:GLY:CA	1:C:246:MET:HE1	2.03	0.88
1:B:387:ILE:HA	1:C:247:ASP:OD2	1.72	0.88
1:B:427:TYR:H	1:C:188:TYR:HD1	1.13	0.88
1:A:208:VAL:HG12	1:A:231:VAL:CG1	2.04	0.88
1:A:222:ALA:HB2	1:B:368:ILE:CB	2.02	0.88
1:B:11:ILE:CD1	1:B:324:LEU:HB3	2.04	0.88
1:B:275:MET:CA	1:C:7:ARG:NH1	2.35	0.88
1:B:422:LEU:CD2	1:C:221:LYS:HZ2	1.80	0.88
1:C:182:VAL:HG13	1:C:183:VAL:H	1.36	0.88
1:A:42:TRP:HE1	1:A:62:ILE:CD1	1.86	0.88
1:A:165:TRP:HE1	1:B:110:ARG:N	1.72	0.88
1:B:35:GLN:HB3	1:B:79:TYR:CE1	2.07	0.88
1:B:383:LYS:HD3	1:C:5:ASP:OD2	1.73	0.88
1:B:388:LYS:HE2	1:B:390:ASP:HB2	1.55	0.88
1:A:11:ILE:CD1	1:A:324:LEU:HB3	2.04	0.88
1:B:433:LEU:HB2	1:B:442:VAL:HG12	1.54	0.88
1:A:123:MET:HG3	1:A:146:PHE:CE1	2.07	0.88
1:A:408:LEU:HD11	1:A:462:LEU:HD21	1.53	0.88
1:B:276:ILE:O	1:C:4:ALA:CA	2.22	0.88
1:A:16:THR:HG1	1:A:94:TYR:HE1	0.93	0.88
1:A:57:PHE:CE2	1:A:327:ILE:HG21	2.09	0.88
1:A:143:GLN:CD	1:B:108:HIS:CA	2.46	0.88
1:C:293:VAL:HG13	1:C:294:GLU:H	1.36	0.88
1:A:180:LYS:HE3	1:B:12:TYR:CA	2.04	0.87
1:B:42:TRP:HE1	1:B:62:ILE:CD1	1.86	0.87
1:B:383:LYS:NZ	1:C:6:TRP:N	2.23	0.87
1:B:400:ASP:HA	1:C:192:GLY:O	1.74	0.87
1:C:123:MET:HG3	1:C:146:PHE:CE1	2.07	0.87
1:A:197:ASN:OD1	1:C:193:SER:O	1.92	0.87
1:A:205:ILE:HG21	1:B:472:LYS:HG2	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:57:PHE:CE2	1:C:327:ILE:HG21	2.09	0.87
1:A:147:HIS:HA	1:B:112:MET:CE	2.00	0.87
1:A:200:ILE:CG2	1:B:467:LYS:HA	2.05	0.87
1:A:249:VAL:CG1	1:B:477:SER:OG	2.22	0.87
1:C:42:TRP:HE1	1:C:62:ILE:CD1	1.86	0.87
1:C:422:LEU:HB3	1:C:450:VAL:HG22	1.55	0.87
1:C:45:ILE:HB	1:C:103:LEU:CD2	2.03	0.87
1:C:280:LYS:CE	1:C:383:LYS:HB3	2.04	0.87
1:C:305:THR:CG2	1:C:310:LEU:HD22	1.97	0.87
1:A:143:GLN:HE21	1:B:108:HIS:CE1	1.92	0.87
1:B:57:PHE:CE2	1:B:327:ILE:HG21	2.09	0.87
1:B:237:ALA:CA	1:C:379:PHE:N	2.37	0.87
1:B:422:LEU:HB3	1:B:450:VAL:HG22	1.55	0.87
1:A:143:GLN:CG	1:B:108:HIS:NE2	2.24	0.87
1:A:180:LYS:HZ3	1:A:182:VAL:HB	1.38	0.87
1:A:295:ASN:HB3	1:A:298:ASN:HB2	1.56	0.87
1:A:305:THR:CG2	1:A:310:LEU:HD22	1.97	0.87
1:B:381:THR:HG22	1:C:1:ALA:HB2	1.54	0.87
1:A:87:ILE:HD11	1:B:374:SER:CA	2.00	0.87
1:A:215:PHE:HD1	1:A:216:TRP:CE3	1.93	0.87
1:A:422:LEU:HB3	1:A:450:VAL:HG22	1.56	0.87
1:B:275:MET:C	1:C:7:ARG:NH1	2.19	0.87
1:C:215:PHE:HD1	1:C:216:TRP:CE3	1.93	0.87
1:C:295:ASN:HB3	1:C:298:ASN:HB2	1.56	0.87
1:B:385:PRO:HD2	1:C:2:THR:HG22	1.56	0.87
1:A:182:VAL:N	1:B:57:PHE:CA	2.31	0.86
1:A:208:VAL:HA	1:A:216:TRP:HZ2	1.40	0.86
1:B:238:TYR:CG	1:C:376:ASP:HB2	2.10	0.86
1:A:145:TYR:CD2	1:B:9:GLN:CG	2.58	0.86
1:A:180:LYS:HB3	1:B:12:TYR:HD2	1.36	0.86
1:A:223:ALA:H	1:B:468:LEU:CD2	1.87	0.86
1:B:295:ASN:HB3	1:B:298:ASN:HB2	1.56	0.86
1:A:280:LYS:CE	1:A:383:LYS:HB3	2.04	0.86
1:B:215:PHE:HD1	1:B:216:TRP:CE3	1.93	0.86
1:A:431:GLN:HA	1:A:431:GLN:HE21	1.41	0.86
1:B:276:ILE:O	1:C:4:ALA:HA	1.74	0.86
1:B:383:LYS:HZ3	1:C:6:TRP:N	1.72	0.86
1:C:431:GLN:HA	1:C:431:GLN:HE21	1.41	0.86
1:A:45:ILE:HB	1:A:103:LEU:CD2	2.03	0.86
1:B:12:TYR:CE1	1:B:14:LEU:HD23	2.11	0.86
1:B:431:GLN:HE21	1:B:431:GLN:HA	1.41	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:388:LYS:HE2	1:C:390:ASP:HB2	1.56	0.86
1:B:400:ASP:CB	1:C:194:LEU:O	2.23	0.86
1:B:449:ASN:ND2	1:C:214:ASP:O	2.09	0.86
1:B:399:THR:HG22	1:C:196:SER:O	1.74	0.86
1:B:408:LEU:CD2	1:B:452:VAL:HG21	2.06	0.86
1:A:205:ILE:HG23	1:B:472:LYS:H	1.40	0.86
1:A:219:TYR:HE1	1:B:471:SER:HG	0.88	0.86
1:B:11:ILE:HD13	1:B:326:ILE:CG1	2.06	0.86
1:B:83:TRP:HE1	1:B:173:LEU:CD2	1.89	0.86
1:A:408:LEU:CD2	1:A:452:VAL:HG21	2.06	0.86
1:B:386:TYR:CD2	1:C:247:ASP:HB3	2.11	0.86
1:C:83:TRP:HE1	1:C:173:LEU:CD2	1.89	0.86
1:A:180:LYS:HA	1:B:55:MET:HB3	0.93	0.85
1:A:223:ALA:H	1:B:468:LEU:HD21	1.03	0.85
1:A:205:ILE:CG2	1:B:472:LYS:CG	2.13	0.85
1:A:230:GLU:HA	1:A:250:LEU:CD2	2.06	0.85
1:B:16:THR:HG1	1:B:94:TYR:HE1	1.23	0.85
1:B:139:PRO:HG2	1:B:140:PHE:CD1	2.11	0.85
1:A:11:ILE:HD13	1:A:326:ILE:CG1	2.06	0.85
1:A:83:TRP:HE1	1:A:173:LEU:CD2	1.89	0.85
1:A:219:TYR:CZ	1:B:473:ILE:HD12	2.10	0.85
1:A:147:HIS:CG	1:A:148:PRO:HD2	2.11	0.85
1:A:200:ILE:HD11	1:B:467:LYS:NZ	1.91	0.85
1:B:406:THR:HG21	1:C:221:LYS:O	1.75	0.85
1:C:408:LEU:CD2	1:C:452:VAL:HG21	2.06	0.85
1:C:147:HIS:CG	1:C:148:PRO:HD2	2.11	0.85
1:C:208:VAL:HA	1:C:216:TRP:HZ2	1.40	0.85
1:C:230:GLU:HA	1:C:250:LEU:CD2	2.06	0.85
1:A:88:TYR:CD2	1:B:373:ILE:O	2.29	0.85
1:A:220:ASN:OD1	1:B:439:CYS:SG	2.35	0.85
1:A:221:LYS:CA	1:B:434:THR:HG22	2.04	0.85
1:A:185:ASN:CG	1:B:369:ARG:HD3	2.02	0.85
1:B:123:MET:HG3	1:B:146:PHE:CE1	2.07	0.85
1:B:230:GLU:HA	1:B:250:LEU:CD2	2.06	0.85
1:B:278:THR:C	1:C:380:VAL:CG2	2.41	0.85
1:A:88:TYR:CZ	1:B:373:ILE:C	2.55	0.85
1:A:194:LEU:O	1:B:467:LYS:NZ	2.08	0.85
1:B:235:ASP:OD2	1:C:399:THR:HG21	1.47	0.85
1:A:139:PRO:HG2	1:A:140:PHE:CD1	2.11	0.85
1:A:388:LYS:HE2	1:A:390:ASP:HB2	1.56	0.85
1:B:147:HIS:CG	1:B:148:PRO:HD2	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:ALA:HB3	1:A:458:LEU:HD11	1.58	0.85
1:B:428:THR:HA	1:C:186:GLU:C	2.01	0.84
1:C:200:ILE:HG22	1:C:203:LEU:HD11	1.59	0.84
1:A:163:ASP:CA	1:B:53:GLN:OE1	2.24	0.84
1:B:237:ALA:HB2	1:C:379:PHE:H	1.39	0.84
1:B:383:LYS:CD	1:C:5:ASP:OD2	2.24	0.84
1:A:12:TYR:CE1	1:A:14:LEU:HD23	2.11	0.84
1:A:197:ASN:C	1:B:467:LYS:CE	2.50	0.84
1:C:11:ILE:HD13	1:C:326:ILE:CG1	2.06	0.84
1:A:186:GLU:HA	1:B:369:ARG:NH1	1.92	0.84
1:A:420:LEU:HD23	1:A:452:VAL:CG1	2.07	0.84
1:B:236:PRO:HG2	1:C:378:GLY:O	1.77	0.84
1:B:281:SER:HB2	1:C:6:TRP:O	1.78	0.84
1:C:12:TYR:CE1	1:C:14:LEU:HD23	2.11	0.84
1:C:139:PRO:HG2	1:C:140:PHE:CD1	2.11	0.84
1:A:200:ILE:HG22	1:A:203:LEU:HD11	1.59	0.84
1:B:213:LYS:HE2	1:C:375:LYS:HG3	1.57	0.84
1:B:396:ARG:HB2	1:C:221:LYS:HA	1.57	0.84
1:B:420:LEU:HD23	1:B:452:VAL:CG1	2.07	0.84
1:B:455:ALA:HB3	1:B:458:LEU:HD11	1.58	0.84
1:A:219:TYR:CE2	1:B:371:TYR:CD2	2.64	0.84
1:C:16:THR:HG1	1:C:94:TYR:HE1	1.24	0.84
1:A:145:TYR:HE1	1:B:113:TYR:HE2	1.14	0.84
1:B:386:TYR:CD1	1:C:288:LEU:HD12	2.11	0.84
1:B:449:ASN:HB2	1:C:184:LYS:HZ3	1.05	0.84
1:B:208:VAL:HA	1:B:216:TRP:HZ2	1.40	0.84
1:B:387:ILE:HG22	1:B:395:MET:HA	1.60	0.84
1:A:148:PRO:CD	1:B:49:LEU:HD23	2.07	0.83
1:A:180:LYS:HG2	1:B:327:ILE:HG22	1.58	0.83
1:A:227:CYS:O	1:B:476:ASP:CA	2.26	0.83
1:B:211:VAL:HB	1:B:216:TRP:CZ2	2.13	0.83
1:B:385:PRO:HA	1:C:3:PRO:CG	2.07	0.83
1:C:420:LEU:HD23	1:C:452:VAL:CG1	2.07	0.83
1:A:216:TRP:O	1:B:473:ILE:C	2.22	0.83
1:A:236:PRO:O	1:A:240:CYS:HB2	1.78	0.83
1:A:211:VAL:HB	1:A:216:TRP:CZ2	2.13	0.83
1:B:281:SER:HB2	1:C:8:SER:H	1.41	0.83
1:C:229:GLY:N	1:C:246:MET:HE1	1.94	0.83
1:A:222:ALA:CA	1:B:368:ILE:CG1	2.50	0.83
1:B:385:PRO:N	1:C:3:PRO:HD3	1.72	0.83
1:B:385:PRO:HD3	1:C:2:THR:CG2	2.03	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:14:LEU:HD12	1:C:62:ILE:HG22	1.61	0.83
1:C:455:ALA:HB3	1:C:458:LEU:HD11	1.58	0.83
1:A:229:GLY:N	1:A:246:MET:HE1	1.94	0.83
1:C:211:VAL:HB	1:C:216:TRP:CZ2	2.13	0.83
1:A:200:ILE:HD12	1:B:467:LYS:HD2	1.60	0.83
1:A:221:LYS:HB3	1:B:436:VAL:N	1.93	0.83
1:A:249:VAL:HG12	1:B:477:SER:OG	1.79	0.83
1:A:191:VAL:HG13	1:B:371:TYR:C	2.03	0.82
1:C:236:PRO:O	1:C:240:CYS:HB2	1.78	0.82
1:A:195:VAL:HG22	1:B:466:GLU:HG3	1.59	0.82
1:A:195:VAL:HA	1:A:200:ILE:HD12	1.60	0.82
1:A:214:ASP:OD1	1:B:360:LYS:O	1.95	0.82
1:A:432:GLN:HG2	1:A:465:THR:CG2	2.09	0.82
1:B:237:ALA:CB	1:C:379:PHE:H	1.92	0.82
1:B:238:TYR:C	1:C:376:ASP:C	2.47	0.82
1:C:387:ILE:HG22	1:C:395:MET:HA	1.60	0.82
1:B:200:ILE:HG22	1:B:203:LEU:HD11	1.59	0.82
1:C:7:ARG:HG2	1:C:287:THR:OG1	1.79	0.82
1:A:180:LYS:CB	1:B:12:TYR:HD2	1.92	0.82
1:A:225:VAL:HG23	1:B:465:THR:HG22	1.62	0.82
1:B:229:GLY:N	1:B:246:MET:HE1	1.94	0.82
1:A:14:LEU:HD12	1:A:62:ILE:HG22	1.61	0.82
1:B:385:PRO:HG3	1:C:224:GLY:C	2.04	0.82
1:A:208:VAL:CA	1:B:472:LYS:HE2	2.09	0.82
1:A:229:GLY:N	1:B:477:SER:O	2.13	0.82
1:A:280:LYS:HE3	1:A:383:LYS:HB3	1.62	0.82
1:C:35:GLN:HB3	1:C:79:TYR:HE1	1.44	0.82
1:A:200:ILE:HD12	1:B:467:LYS:NZ	1.93	0.82
1:B:365:ALA:O	1:B:368:ILE:HG22	1.72	0.82
1:B:422:LEU:HB3	1:B:450:VAL:CG2	2.09	0.82
1:C:195:VAL:HA	1:C:200:ILE:HD12	1.60	0.82
1:A:115:MET:CE	1:A:204:ARG:HB2	2.09	0.82
1:A:223:ALA:N	1:B:468:LEU:CD2	2.32	0.82
1:B:7:ARG:HG2	1:B:287:THR:OG1	1.79	0.82
1:C:280:LYS:HE3	1:C:383:LYS:HB3	1.62	0.82
1:A:315:ALA:HA	1:A:318:ILE:HG23	1.62	0.82
1:B:14:LEU:HD12	1:B:62:ILE:HG22	1.61	0.82
1:B:35:GLN:HB3	1:B:79:TYR:HE1	1.44	0.82
1:B:195:VAL:HA	1:B:200:ILE:HD12	1.60	0.82
1:A:198:TYR:HB2	1:B:467:LYS:HZ3	1.42	0.81
1:B:385:PRO:CA	1:C:3:PRO:CG	2.57	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:LEU:CD1	1:B:375:LYS:HB3	2.10	0.81
1:A:243:GLN:HB3	1:A:284:PRO:HG2	1.62	0.81
1:A:195:VAL:HG22	1:B:466:GLU:CG	2.07	0.81
1:B:213:LYS:HE2	1:C:375:LYS:CG	2.11	0.81
1:B:238:TYR:CB	1:C:376:ASP:OD2	2.19	0.81
1:B:379:PHE:CE1	1:B:397:LYS:HE3	2.16	0.81
1:C:115:MET:CE	1:C:204:ARG:HB2	2.09	0.81
1:C:422:LEU:HB3	1:C:450:VAL:CG2	2.09	0.81
1:C:432:GLN:HG2	1:C:465:THR:CG2	2.09	0.81
1:C:468:LEU:HD23	1:C:473:ILE:HG12	1.60	0.81
1:A:7:ARG:HG2	1:A:287:THR:OG1	1.80	0.81
1:A:180:LYS:CG	1:B:12:TYR:HD2	1.92	0.81
1:A:200:ILE:HD12	1:B:467:LYS:CG	2.10	0.81
1:C:379:PHE:CE1	1:C:397:LYS:HE3	2.16	0.81
1:A:200:ILE:CB	1:B:467:LYS:HA	2.10	0.81
1:A:217:PRO:HD3	1:A:245:VAL:HG23	1.62	0.81
1:A:379:PHE:CE1	1:A:397:LYS:HE3	2.16	0.81
1:A:422:LEU:HB3	1:A:450:VAL:CG2	2.09	0.81
1:C:217:PRO:HD3	1:C:245:VAL:CG2	2.10	0.81
1:A:35:GLN:HB3	1:A:79:TYR:HE1	1.44	0.81
1:A:137:PHE:HB3	1:A:140:PHE:HB2	1.63	0.81
1:B:468:LEU:HD23	1:B:473:ILE:HG12	1.60	0.81
1:A:2:THR:CA	1:B:432:GLN:HE22	1.34	0.81
1:A:217:PRO:HD3	1:A:245:VAL:CG2	2.10	0.81
1:B:115:MET:CE	1:B:204:ARG:HB2	2.09	0.81
1:B:217:PRO:HD3	1:B:245:VAL:CG2	2.10	0.81
1:B:426:SER:HA	1:C:188:TYR:HD1	1.46	0.81
1:C:263:LYS:HD2	1:C:304:TYR:CD2	2.16	0.81
1:A:180:LYS:HZ1	1:B:11:ILE:CA	1.94	0.81
1:B:45:ILE:HB	1:B:103:LEU:CD2	2.03	0.81
1:B:424:GLY:O	1:C:221:LYS:HB2	1.65	0.81
1:A:87:ILE:CD1	1:B:374:SER:OG	2.29	0.81
1:A:468:LEU:HD23	1:A:473:ILE:HG12	1.60	0.81
1:B:188:TYR:CE1	1:B:218:GLY:HA3	2.15	0.81
1:B:402:SER:H	1:C:193:SER:HB2	1.46	0.81
1:B:432:GLN:HG2	1:B:465:THR:CG2	2.09	0.81
1:C:137:PHE:HB3	1:C:140:PHE:HB2	1.63	0.81
1:C:188:TYR:CE1	1:C:218:GLY:HA3	2.15	0.81
1:C:315:ALA:HA	1:C:318:ILE:HG23	1.62	0.81
1:A:84:GLN:HE22	1:B:375:LYS:HZ2	1.28	0.80
1:A:194:LEU:CB	1:B:375:LYS:HB3	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:263:LYS:HD2	1:B:304:TYR:CD2	2.16	0.80
1:C:217:PRO:HD3	1:C:245:VAL:HG23	1.62	0.80
1:B:382:TYR:CA	1:C:1:ALA:CB	2.52	0.80
1:A:180:LYS:HD3	1:B:57:PHE:HB2	0.81	0.80
1:B:137:PHE:HB3	1:B:140:PHE:HB2	1.63	0.80
1:B:185:ASN:CA	1:B:188:TYR:HD2	1.91	0.80
1:B:424:GLY:O	1:C:218:GLY:CA	2.30	0.80
1:B:243:GLN:HB3	1:B:284:PRO:HG2	1.62	0.80
1:A:387:ILE:HG22	1:A:395:MET:HA	1.60	0.80
1:A:177:ASP:HB3	1:B:53:GLN:HB3	1.61	0.80
1:A:206:ASP:HA	1:A:230:GLU:HG3	1.64	0.80
1:B:192:GLY:O	1:B:195:VAL:HG12	1.82	0.80
1:A:197:ASN:C	1:B:467:LYS:HE3	2.06	0.80
1:A:205:ILE:CD1	1:B:478:SER:OXT	2.30	0.80
1:B:206:ASP:HA	1:B:230:GLU:HG3	1.64	0.80
1:A:148:PRO:CG	1:B:49:LEU:HD23	2.11	0.80
1:A:200:ILE:HB	1:B:467:LYS:HA	1.64	0.80
1:B:428:THR:CB	1:C:186:GLU:O	2.29	0.80
1:A:204:ARG:HB2	1:B:470:GLY:CA	1.90	0.80
1:A:263:LYS:HD2	1:A:304:TYR:CD2	2.16	0.80
1:C:192:GLY:O	1:C:195:VAL:HG12	1.82	0.80
1:A:219:TYR:HD1	1:B:473:ILE:HB	1.00	0.80
1:B:204:ARG:HG3	1:B:228:ILE:CB	2.12	0.80
1:B:278:THR:CA	1:C:380:VAL:HG22	1.94	0.80
1:B:408:LEU:HD21	1:B:452:VAL:HG21	1.64	0.80
1:A:185:ASN:CA	1:A:188:TYR:HD2	1.92	0.79
1:A:204:ARG:HG3	1:A:228:ILE:CB	2.12	0.79
1:A:214:ASP:HB2	1:B:360:LYS:HA	1.63	0.79
1:C:152:ILE:HD11	1:C:166:LEU:CA	2.12	0.79
1:C:206:ASP:HA	1:C:230:GLU:HG3	1.64	0.79
1:A:205:ILE:HG13	1:A:229:GLY:HA2	1.65	0.79
1:A:224:GLY:N	1:B:465:THR:HA	1.98	0.79
1:B:208:VAL:CA	1:B:216:TRP:CZ2	2.65	0.79
1:B:236:PRO:CB	1:C:380:VAL:HG12	2.11	0.79
1:B:424:GLY:HA2	1:C:216:TRP:O	1.81	0.79
1:B:465:THR:HA	1:B:468:LEU:HD12	1.65	0.79
1:C:243:GLN:HB3	1:C:284:PRO:HG2	1.62	0.79
1:A:188:TYR:N	1:B:367:ALA:C	2.32	0.79
1:A:192:GLY:O	1:A:195:VAL:HG12	1.82	0.79
1:C:205:ILE:HG13	1:C:229:GLY:HA2	1.65	0.79
1:C:465:THR:HA	1:C:468:LEU:HD12	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:420:LEU:CD2	1:B:452:VAL:HG13	2.11	0.79
1:C:204:ARG:HG3	1:C:228:ILE:CB	2.12	0.79
1:C:208:VAL:CA	1:C:216:TRP:CZ2	2.65	0.79
1:A:205:ILE:CD1	1:B:472:LYS:HG2	2.11	0.79
1:A:208:VAL:CA	1:A:216:TRP:CZ2	2.65	0.79
1:A:465:THR:HA	1:A:468:LEU:HD12	1.65	0.79
1:C:408:LEU:HD21	1:C:452:VAL:HG21	1.64	0.79
1:A:175:ASP:O	1:B:110:ARG:O	2.01	0.79
1:B:147:HIS:HD2	1:B:177:ASP:O	1.66	0.79
1:B:205:ILE:HG13	1:B:229:GLY:HA2	1.65	0.79
1:A:139:PRO:HG2	1:A:140:PHE:CE1	2.18	0.79
1:B:400:ASP:HB3	1:C:194:LEU:O	1.83	0.79
1:B:428:THR:HA	1:C:186:GLU:O	1.83	0.79
1:A:217:PRO:CG	1:B:364:SER:OG	2.25	0.79
1:B:11:ILE:HD11	1:B:324:LEU:HB3	1.65	0.79
1:C:139:PRO:HG2	1:C:140:PHE:CE1	2.18	0.79
1:A:152:ILE:HD11	1:A:166:LEU:CA	2.12	0.78
1:A:227:CYS:HB2	1:B:476:ASP:CA	2.13	0.78
1:A:420:LEU:CD2	1:A:452:VAL:HG22	2.13	0.78
1:B:217:PRO:HD3	1:B:245:VAL:HG23	1.62	0.78
1:A:211:VAL:HB	1:B:472:LYS:NZ	1.98	0.78
1:A:224:GLY:N	1:B:465:THR:CA	2.43	0.78
1:A:408:LEU:HD21	1:A:452:VAL:HG21	1.64	0.78
1:B:315:ALA:HA	1:B:318:ILE:HG23	1.62	0.78
1:C:185:ASN:CA	1:C:188:TYR:HD2	1.92	0.78
1:C:420:LEU:CD2	1:C:452:VAL:HG22	2.13	0.78
1:A:205:ILE:HD13	1:B:472:LYS:HA	1.64	0.78
1:A:455:ALA:HB3	1:A:458:LEU:CD1	2.13	0.78
1:C:55:MET:HG3	1:C:57:PHE:HE2	1.48	0.78
1:A:84:GLN:HE22	1:B:375:LYS:HZ1	1.30	0.78
1:A:200:ILE:HG21	1:B:467:LYS:C	2.09	0.78
1:A:186:GLU:HA	1:B:369:ARG:HH11	1.47	0.78
1:A:218:GLY:CA	1:B:364:SER:O	2.30	0.78
1:B:152:ILE:HD11	1:B:166:LEU:CA	2.12	0.78
1:A:143:GLN:CG	1:B:108:HIS:CG	2.56	0.78
1:C:11:ILE:HD11	1:C:324:LEU:HB3	1.65	0.78
1:C:455:ALA:HB3	1:C:458:LEU:CD1	2.13	0.78
1:A:16:THR:HG21	1:A:42:TRP:CD1	2.19	0.78
1:B:402:SER:N	1:C:193:SER:CA	2.44	0.78
1:B:449:ASN:CA	1:C:184:LYS:HZ1	1.96	0.78
1:B:455:ALA:HB3	1:B:458:LEU:CD1	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:16:THR:HG21	1:C:42:TRP:CD1	2.19	0.78
1:A:61:TRP:CZ3	1:A:326:ILE:HG21	2.19	0.78
1:A:180:LYS:CB	1:B:12:TYR:CD2	2.67	0.78
1:A:182:VAL:N	1:B:57:PHE:CB	2.46	0.78
1:B:61:TRP:CZ3	1:B:326:ILE:HG21	2.19	0.78
1:B:122:HIS:ND1	1:B:173:LEU:HD22	1.99	0.78
1:B:139:PRO:HG2	1:B:140:PHE:CE1	2.18	0.78
1:A:143:GLN:CD	1:B:108:HIS:CG	2.61	0.78
1:B:16:THR:HG21	1:B:42:TRP:NE1	1.99	0.78
1:B:238:TYR:C	1:C:376:ASP:HA	2.08	0.78
1:B:427:TYR:N	1:C:188:TYR:HD1	1.75	0.78
1:B:201:ASP:C	1:B:225:VAL:HG13	2.09	0.77
1:B:420:LEU:CD2	1:B:452:VAL:HG22	2.13	0.77
1:B:445:GLY:CA	1:C:185:ASN:CB	2.61	0.77
1:C:61:TRP:CZ3	1:C:326:ILE:HG21	2.19	0.77
1:C:407:ILE:CG2	1:C:461:VAL:HG22	2.10	0.77
1:A:185:ASN:OD1	1:B:369:ARG:HD3	1.83	0.77
1:C:147:HIS:HD2	1:C:177:ASP:O	1.66	0.77
1:A:64:PRO:HD2	1:A:81:GLY:O	1.84	0.77
1:A:189:ASP:O	1:B:463:TYR:CE2	2.37	0.77
1:B:16:THR:HG21	1:B:42:TRP:CD1	2.19	0.77
1:C:16:THR:HG21	1:C:42:TRP:NE1	2.00	0.77
1:C:122:HIS:ND1	1:C:173:LEU:HD22	1.99	0.77
1:A:201:ASP:C	1:A:225:VAL:HG13	2.09	0.77
1:A:219:TYR:HD1	1:B:472:LYS:C	1.91	0.77
1:A:227:CYS:CB	1:B:476:ASP:HB3	2.04	0.77
1:B:68:GLN:HA	1:B:85:THR:HG22	1.67	0.77
1:C:64:PRO:HD2	1:C:81:GLY:O	1.84	0.77
1:A:145:TYR:CG	1:B:9:GLN:CD	2.48	0.77
1:A:180:LYS:CG	1:B:327:ILE:CG2	2.61	0.77
1:B:64:PRO:HD2	1:B:81:GLY:O	1.84	0.77
1:C:147:HIS:CE1	1:C:163:ASP:HB3	2.19	0.77
1:C:201:ASP:C	1:C:225:VAL:HG13	2.09	0.77
1:A:52:ILE:HD12	1:A:112:MET:SD	2.25	0.77
1:A:177:ASP:HB3	1:B:53:GLN:CA	2.14	0.77
1:A:420:LEU:CD2	1:A:452:VAL:HG13	2.11	0.77
1:B:52:ILE:HD12	1:B:112:MET:SD	2.25	0.77
1:C:420:LEU:HD21	1:C:452:VAL:HG22	1.66	0.77
1:A:55:MET:HG3	1:A:57:PHE:HE2	1.48	0.77
1:A:84:GLN:NE2	1:B:375:LYS:HZ2	1.75	0.77
1:A:129:GLY:O	1:B:109:GLU:HG2	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:188:TYR:OH	1:B:363:ALA:C	2.28	0.77
1:A:11:ILE:HD11	1:A:324:LEU:HB3	1.65	0.77
1:A:88:TYR:CZ	1:B:373:ILE:O	2.38	0.77
1:A:145:TYR:CE2	1:B:9:GLN:CG	2.53	0.77
1:B:11:ILE:HD11	1:B:324:LEU:CB	2.15	0.77
1:B:429:ALA:C	1:C:185:ASN:CG	2.50	0.77
1:A:147:HIS:CE1	1:A:163:ASP:HB3	2.19	0.77
1:A:243:GLN:HA	1:A:249:VAL:HG11	1.67	0.77
1:A:420:LEU:HD21	1:A:452:VAL:HG22	1.66	0.77
1:B:147:HIS:CE1	1:B:163:ASP:HB3	2.19	0.77
1:A:11:ILE:HD11	1:A:324:LEU:CB	2.15	0.77
1:A:194:LEU:HA	1:B:403:GLN:HG2	1.67	0.77
1:B:243:GLN:HA	1:B:249:VAL:HG11	1.67	0.77
1:B:249:VAL:HG22	1:B:289:LEU:HD12	1.67	0.77
1:C:68:GLN:HA	1:C:85:THR:HG22	1.67	0.77
1:A:122:HIS:ND1	1:A:173:LEU:HD22	1.99	0.76
1:A:212:GLN:HE22	1:B:53:GLN:C	1.61	0.76
1:A:380:VAL:HG13	1:A:381:THR:H	1.50	0.76
1:B:42:TRP:NE1	1:B:62:ILE:HD11	2.00	0.76
1:C:11:ILE:HD11	1:C:324:LEU:CB	2.14	0.76
1:A:85:THR:HG23	1:A:85:THR:O	1.84	0.76
1:A:219:TYR:CD2	1:B:473:ILE:HG13	2.20	0.76
1:B:400:ASP:HB2	1:C:194:LEU:O	1.84	0.76
1:A:68:GLN:HA	1:A:85:THR:HG22	1.67	0.76
1:B:422:LEU:HD11	1:C:221:LYS:CD	2.14	0.76
1:C:85:THR:HG23	1:C:85:THR:O	1.84	0.76
1:C:229:GLY:HA3	1:C:246:MET:HE1	1.66	0.76
1:C:243:GLN:HA	1:C:249:VAL:HG11	1.68	0.76
1:C:129:GLY:O	1:C:132:VAL:HB	1.86	0.76
1:A:190:TRP:CD1	1:B:376:ASP:H	2.04	0.76
1:B:129:GLY:O	1:B:132:VAL:HB	1.86	0.76
1:B:51:TYR:OH	1:B:332:GLU:HG3	1.86	0.76
1:B:85:THR:O	1:B:85:THR:HG23	1.84	0.76
1:C:188:TYR:HE1	1:C:218:GLY:CA	1.98	0.76
1:C:249:VAL:HG22	1:C:289:LEU:HD12	1.67	0.76
1:A:16:THR:HG21	1:A:42:TRP:NE1	2.00	0.76
1:A:87:ILE:HD13	1:B:374:SER:OG	1.84	0.76
1:A:436:VAL:HG13	1:A:437:ILE:CG1	2.16	0.76
1:B:55:MET:HG3	1:B:57:PHE:HE2	1.48	0.76
1:B:188:TYR:HE1	1:B:218:GLY:CA	1.98	0.76
1:A:60:ILE:HD12	1:A:107:LEU:HD13	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:196:SER:O	1:B:466:GLU:OE1	2.02	0.76
1:B:389:ASP:N	1:C:244:ASN:OD1	2.18	0.76
1:C:52:ILE:HD12	1:C:112:MET:SD	2.25	0.76
1:A:219:TYR:CD1	1:B:473:ILE:N	2.40	0.76
1:B:383:LYS:HG2	1:C:113:TYR:CE1	2.21	0.76
1:B:399:THR:HG22	1:C:196:SER:CA	2.16	0.76
1:B:449:ASN:N	1:C:184:LYS:HZ2	1.82	0.76
1:B:277:ASN:CB	1:C:7:ARG:CZ	2.46	0.76
1:B:380:VAL:HG13	1:B:381:THR:H	1.50	0.76
1:C:60:ILE:HD12	1:C:107:LEU:HD13	1.68	0.76
1:C:436:VAL:HG13	1:C:437:ILE:CG1	2.16	0.76
1:C:465:THR:HA	1:C:468:LEU:CD1	2.16	0.76
1:A:129:GLY:O	1:A:132:VAL:HB	1.86	0.75
1:A:205:ILE:CA	1:B:471:SER:HA	2.16	0.75
1:B:382:TYR:C	1:C:2:THR:HG23	2.11	0.75
1:B:399:THR:HG22	1:C:196:SER:C	2.11	0.75
1:C:42:TRP:NE1	1:C:62:ILE:HD11	2.00	0.75
1:C:320:LEU:HD22	1:C:407:ILE:CD1	2.16	0.75
1:A:190:TRP:CZ2	1:B:375:LYS:CB	2.58	0.75
1:A:435:GLU:HB2	1:A:440:THR:HB	1.67	0.75
1:B:161:VAL:HG23	1:B:210:HIS:CD2	2.22	0.75
1:A:188:TYR:HE1	1:A:218:GLY:CA	1.98	0.75
1:A:188:TYR:CE1	1:A:218:GLY:HA3	2.15	0.75
1:A:249:VAL:HG22	1:A:289:LEU:HD12	1.67	0.75
1:B:229:GLY:HA3	1:B:246:MET:HE1	1.66	0.75
1:C:51:TYR:OH	1:C:332:GLU:HG3	1.86	0.75
1:A:42:TRP:NE1	1:A:62:ILE:HD11	2.00	0.75
1:A:215:PHE:HE1	1:B:472:LYS:HB2	1.51	0.75
1:A:222:ALA:HB2	1:B:368:ILE:CD1	2.06	0.75
1:B:420:LEU:HD21	1:B:452:VAL:HG22	1.66	0.75
1:C:68:GLN:HA	1:C:85:THR:CG2	2.16	0.75
1:C:307:ASP:HB2	1:C:413:ALA:HB2	1.67	0.75
1:A:51:TYR:OH	1:A:332:GLU:HG3	1.86	0.75
1:A:179:THR:OG1	1:B:52:ILE:HG13	1.87	0.75
1:B:274:ASN:C	1:C:286:SER:CB	2.57	0.75
1:B:399:THR:HB	1:C:196:SER:HA	1.67	0.75
1:B:436:VAL:HG13	1:B:437:ILE:CG1	2.16	0.75
1:A:180:LYS:C	1:B:57:PHE:H	1.93	0.75
1:A:319:ILE:HA	1:A:325:PRO:HB2	1.66	0.75
1:A:396:ARG:NH1	1:A:404:ILE:HD11	2.01	0.75
1:A:465:THR:HA	1:A:468:LEU:CD1	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:307:ASP:HB2	1:B:413:ALA:HB2	1.67	0.75
1:B:382:TYR:O	1:C:2:THR:CB	2.34	0.75
1:A:182:VAL:HB	1:B:10:SER:O	1.86	0.75
1:B:320:LEU:HD22	1:B:407:ILE:CD1	2.17	0.75
1:C:161:VAL:HG23	1:C:210:HIS:CD2	2.21	0.75
1:B:449:ASN:CA	1:C:184:LYS:NZ	2.49	0.75
1:C:435:GLU:HB2	1:C:440:THR:HB	1.67	0.75
1:A:180:LYS:CE	1:B:57:PHE:CG	2.68	0.75
1:A:194:LEU:HD22	1:B:375:LYS:CB	2.17	0.75
1:B:68:GLN:HA	1:B:85:THR:CG2	2.16	0.75
1:B:195:VAL:CG2	1:B:200:ILE:HB	2.13	0.75
1:A:145:TYR:HE2	1:B:9:GLN:HB2	1.47	0.74
1:A:190:TRP:CZ2	1:B:374:SER:CB	2.70	0.74
1:A:307:ASP:HB2	1:A:413:ALA:HB2	1.67	0.74
1:A:320:LEU:HD22	1:A:407:ILE:CD1	2.16	0.74
1:B:60:ILE:HD12	1:B:107:LEU:HD13	1.68	0.74
1:B:206:ASP:HA	1:B:230:GLU:CG	2.17	0.74
1:B:465:THR:HA	1:B:468:LEU:CD1	2.16	0.74
1:A:68:GLN:HA	1:A:85:THR:CG2	2.16	0.74
1:B:191:VAL:HG11	1:B:219:TYR:OH	1.86	0.74
1:B:422:LEU:CD1	1:C:221:LYS:HZ2	2.00	0.74
1:C:396:ARG:NH1	1:C:404:ILE:HD11	2.01	0.74
1:A:196:SER:HB3	1:B:403:GLN:CG	2.13	0.74
1:A:205:ILE:HD13	1:B:472:LYS:CA	2.18	0.74
1:B:56:GLY:HA3	1:B:366:ASN:HB3	1.69	0.74
1:B:310:LEU:O	1:B:314:VAL:HG12	1.87	0.74
1:B:383:LYS:CG	1:C:6:TRP:NE1	2.45	0.74
1:B:383:LYS:C	1:C:3:PRO:HD2	1.92	0.74
1:A:229:GLY:HA3	1:A:246:MET:HE1	1.66	0.74
1:A:373:ILE:CG2	1:A:377:THR:HG22	2.18	0.74
1:B:238:TYR:CA	1:C:376:ASP:CB	2.65	0.74
1:B:277:ASN:HB2	1:C:7:ARG:CZ	2.15	0.74
1:C:14:LEU:HD12	1:C:62:ILE:CG2	2.17	0.74
1:A:161:VAL:HG23	1:A:210:HIS:CD2	2.22	0.74
1:A:188:TYR:H	1:B:367:ALA:C	1.92	0.74
1:B:435:GLU:HB2	1:B:440:THR:HB	1.67	0.74
1:B:447:ASP:CG	1:C:214:ASP:OD2	2.31	0.74
1:C:373:ILE:CG2	1:C:377:THR:HG22	2.18	0.74
1:A:205:ILE:HD12	1:B:478:SER:C	2.11	0.74
1:B:14:LEU:HD12	1:B:62:ILE:CG2	2.17	0.74
1:A:310:LEU:O	1:A:314:VAL:HG12	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:152:ILE:CD1	1:C:166:LEU:HG	2.18	0.74
1:A:180:LYS:HZ1	1:B:11:ILE:HA	1.51	0.74
1:A:200:ILE:CD1	1:B:467:LYS:HZ3	1.96	0.74
1:B:55:MET:HG3	1:B:57:PHE:CE2	2.23	0.74
1:B:276:ILE:O	1:C:4:ALA:HB2	1.88	0.74
1:A:163:ASP:HA	1:B:53:GLN:OE1	1.87	0.74
1:A:194:LEU:CG	1:B:375:LYS:HB3	2.18	0.74
1:A:197:ASN:O	1:B:467:LYS:HE3	1.86	0.74
1:A:206:ASP:HA	1:A:230:GLU:CG	2.17	0.74
1:B:386:TYR:CD2	1:C:288:LEU:HD11	2.21	0.74
1:C:55:MET:HG3	1:C:57:PHE:CE2	2.22	0.74
1:C:56:GLY:HA3	1:C:366:ASN:HB3	1.68	0.74
1:C:191:VAL:HG11	1:C:219:TYR:OH	1.87	0.74
1:A:163:ASP:HB3	1:B:53:GLN:OE1	1.87	0.74
1:A:216:TRP:CZ2	1:B:478:SER:OXT	2.41	0.74
1:A:218:GLY:H	1:B:364:SER:CB	2.00	0.74
1:A:205:ILE:CD1	1:B:472:LYS:HA	2.16	0.73
1:B:274:ASN:HA	1:C:286:SER:N	2.02	0.73
1:B:428:THR:CA	1:C:186:GLU:O	2.36	0.73
1:B:468:LEU:HD23	1:B:473:ILE:CG1	2.18	0.73
1:C:206:ASP:HA	1:C:230:GLU:CG	2.17	0.73
1:C:468:LEU:HD23	1:C:473:ILE:CG1	2.18	0.73
1:A:11:ILE:HB	1:A:326:ILE:HA	1.70	0.73
1:B:152:ILE:CD1	1:B:166:LEU:HG	2.18	0.73
1:B:277:ASN:HD22	1:C:286:SER:HB3	1.52	0.73
1:B:294:GLU:CD	1:B:300:ARG:HG3	2.13	0.73
1:B:319:ILE:HA	1:B:325:PRO:HB2	1.66	0.73
1:B:383:LYS:HZ3	1:C:6:TRP:H	1.33	0.73
1:B:400:ASP:CB	1:C:194:LEU:C	2.62	0.73
1:B:422:LEU:CD1	1:C:221:LYS:CG	2.35	0.73
1:C:12:TYR:HE1	1:C:14:LEU:HD23	1.54	0.73
1:B:11:ILE:HB	1:B:326:ILE:HA	1.70	0.73
1:C:294:GLU:CD	1:C:300:ARG:HG3	2.13	0.73
1:A:14:LEU:HD12	1:A:62:ILE:CG2	2.17	0.73
1:A:55:MET:HG3	1:A:57:PHE:CE2	2.23	0.73
1:A:204:ARG:CG	1:A:228:ILE:HB	2.18	0.73
1:B:83:TRP:CH2	1:B:171:VAL:HG21	2.24	0.73
1:C:204:ARG:CG	1:C:228:ILE:HB	2.18	0.73
1:C:310:LEU:O	1:C:314:VAL:HG12	1.88	0.73
1:C:382:TYR:CD1	1:C:397:LYS:HA	2.24	0.73
1:C:410:ASN:HB3	1:C:454:MET:HE1	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:MET:CE	1:B:470:GLY:HA3	2.17	0.73
1:A:222:ALA:HA	1:B:368:ILE:HD11	0.76	0.73
1:A:246:MET:CE	1:B:476:ASP:CG	2.62	0.73
1:B:213:LYS:CE	1:C:375:LYS:CG	2.66	0.73
1:B:381:THR:HG21	1:C:201:ASP:OD1	1.88	0.73
1:B:407:ILE:CG2	1:B:461:VAL:HG22	2.10	0.73
1:A:56:GLY:HA3	1:A:366:ASN:HB3	1.69	0.73
1:A:152:ILE:CD1	1:A:166:LEU:HG	2.18	0.73
1:A:294:GLU:CD	1:A:300:ARG:HG3	2.13	0.73
1:B:383:LYS:NZ	1:C:5:ASP:HB3	2.00	0.73
1:C:123:MET:CB	1:C:174:PRO:HG2	2.19	0.73
1:C:234:GLY:HA2	1:C:253:PRO:CD	2.18	0.73
1:A:123:MET:CB	1:A:174:PRO:HG2	2.19	0.73
1:A:316:ALA:O	1:A:320:LEU:HB2	1.89	0.73
1:B:382:TYR:CD1	1:B:397:LYS:HA	2.24	0.73
1:B:410:ASN:HB3	1:B:454:MET:HE1	1.69	0.73
1:C:11:ILE:HB	1:C:326:ILE:HA	1.70	0.73
1:C:57:PHE:CZ	1:C:327:ILE:HG21	2.24	0.73
1:C:319:ILE:HA	1:C:325:PRO:HB2	1.66	0.73
1:A:321:ASN:CG	1:A:322:ASP:H	1.97	0.73
1:A:420:LEU:HD21	1:A:452:VAL:CG2	2.19	0.73
1:A:57:PHE:CZ	1:A:327:ILE:HG21	2.24	0.73
1:A:229:GLY:CA	1:B:478:SER:CA	2.52	0.73
1:A:468:LEU:HD23	1:A:473:ILE:CG1	2.18	0.73
1:B:400:ASP:HB2	1:C:194:LEU:C	2.14	0.73
1:B:400:ASP:HA	1:C:193:SER:C	2.14	0.73
1:C:316:ALA:O	1:C:320:LEU:HB2	1.89	0.73
1:B:316:ALA:O	1:B:320:LEU:HB2	1.89	0.72
1:A:83:TRP:CH2	1:A:171:VAL:HG21	2.24	0.72
1:A:196:SER:C	1:B:467:LYS:HE3	2.14	0.72
1:A:234:GLY:HA2	1:A:253:PRO:CD	2.18	0.72
1:B:123:MET:CB	1:B:174:PRO:HG2	2.19	0.72
1:B:382:TYR:HD1	1:C:2:THR:CG2	1.93	0.72
1:C:49:LEU:HD23	1:C:110:ARG:HD2	1.70	0.72
1:A:189:ASP:O	1:B:463:TYR:HE2	1.72	0.72
1:A:211:VAL:HG13	1:A:212:GLN:N	2.04	0.72
1:A:382:TYR:CD1	1:A:397:LYS:HA	2.24	0.72
1:B:400:ASP:CA	1:C:192:GLY:O	2.37	0.72
1:C:83:TRP:CH2	1:C:171:VAL:HG21	2.24	0.72
1:A:410:ASN:HB3	1:A:454:MET:HE1	1.69	0.72
1:C:321:ASN:CG	1:C:322:ASP:H	1.97	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:187:TRP:CZ3	1:B:374:SER:OG	2.43	0.72
1:A:247:ASP:HA	1:B:475:SER:OG	1.89	0.72
1:B:57:PHE:CZ	1:B:327:ILE:HG21	2.24	0.72
1:A:373:ILE:HG23	1:A:377:THR:HG22	1.72	0.72
1:B:195:VAL:HG23	1:B:200:ILE:CB	2.15	0.72
1:B:280:LYS:O	1:C:7:ARG:HB2	1.89	0.72
1:B:371:TYR:CE2	1:B:473:ILE:HD11	2.25	0.72
1:A:143:GLN:O	1:B:112:MET:N	2.23	0.72
1:B:234:GLY:HA2	1:B:253:PRO:CD	2.18	0.72
1:B:408:LEU:O	1:B:408:LEU:HD22	1.90	0.72
1:C:195:VAL:HG23	1:C:200:ILE:CB	2.15	0.72
1:A:84:GLN:NE2	1:B:375:LYS:HZ1	1.83	0.72
1:A:371:TYR:CE2	1:A:473:ILE:HD11	2.25	0.72
1:A:406:THR:HG21	1:A:425:ALA:CB	2.20	0.72
1:A:408:LEU:O	1:A:408:LEU:HD22	1.90	0.72
1:C:211:VAL:HG13	1:C:212:GLN:N	2.04	0.72
1:C:406:THR:HG21	1:C:425:ALA:CB	2.20	0.72
1:A:407:ILE:CG2	1:A:461:VAL:HG22	2.10	0.72
1:C:420:LEU:HD21	1:C:452:VAL:CG2	2.19	0.72
1:A:49:LEU:HD23	1:A:110:ARG:HD2	1.70	0.71
1:A:180:LYS:HD2	1:B:12:TYR:CB	2.02	0.71
1:B:21:ARG:HG3	1:B:40:GLY:HA2	1.72	0.71
1:B:241:PRO:HB2	1:C:375:LYS:N	2.04	0.71
1:B:280:LYS:O	1:C:6:TRP:C	2.32	0.71
1:A:116:VAL:C	1:B:470:GLY:H	1.96	0.71
1:A:194:LEU:CA	1:B:403:GLN:CG	2.67	0.71
1:A:194:LEU:HD21	1:B:375:LYS:HG2	1.67	0.71
1:A:219:TYR:CD1	1:B:472:LYS:C	2.66	0.71
1:B:274:ASN:C	1:C:286:SER:CA	2.59	0.71
1:C:371:TYR:CE2	1:C:473:ILE:HD11	2.25	0.71
1:A:177:ASP:C	1:B:53:GLN:HA	2.14	0.71
1:A:190:TRP:HZ3	1:B:371:TYR:HD1	1.33	0.71
1:A:205:ILE:HD12	1:B:478:SER:CA	2.21	0.71
1:B:12:TYR:HE1	1:B:14:LEU:HD23	1.53	0.71
1:B:208:VAL:CA	1:B:216:TRP:HZ2	2.03	0.71
1:C:21:ARG:HG3	1:C:40:GLY:HA2	1.72	0.71
1:C:373:ILE:HG23	1:C:377:THR:HG22	1.72	0.71
1:C:408:LEU:O	1:C:408:LEU:HD22	1.90	0.71
1:A:190:TRP:HH2	1:B:375:LYS:HZ2	1.38	0.71
1:B:211:VAL:HG13	1:B:212:GLN:N	2.04	0.71
1:B:321:ASN:CG	1:B:322:ASP:H	1.97	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:396:ARG:C	1:C:224:GLY:HA3	2.15	0.71
1:B:238:TYR:HA	1:C:376:ASP:CG	2.14	0.71
1:B:446:SER:HB2	1:C:181:ASP:OD1	1.90	0.71
1:A:294:GLU:OE2	1:A:300:ARG:HG3	1.90	0.71
1:B:45:ILE:CG2	1:B:103:LEU:HD21	2.21	0.71
1:B:49:LEU:HD23	1:B:110:ARG:HD2	1.70	0.71
1:B:382:TYR:HA	1:C:1:ALA:CB	2.10	0.71
1:B:406:THR:HG21	1:B:425:ALA:CB	2.20	0.71
1:A:178:THR:HA	1:B:52:ILE:HD12	1.73	0.71
1:A:180:LYS:HE2	1:B:11:ILE:O	1.86	0.71
1:A:468:LEU:HD23	1:A:473:ILE:CD1	2.21	0.71
1:B:294:GLU:OE2	1:B:300:ARG:HG3	1.90	0.71
1:B:420:LEU:HD21	1:B:452:VAL:CG2	2.19	0.71
1:C:61:TRP:HZ3	1:C:326:ILE:HG21	1.54	0.71
1:C:468:LEU:HD23	1:C:473:ILE:CD1	2.21	0.71
1:A:12:TYR:HE1	1:A:14:LEU:HD23	1.54	0.71
1:A:101:LYS:CG	1:A:198:TYR:HA	2.16	0.71
1:A:205:ILE:CG1	1:B:478:SER:CB	2.66	0.71
1:A:224:GLY:CA	1:B:434:THR:OG1	2.23	0.71
1:B:16:THR:OG1	1:B:94:TYR:HE1	1.73	0.71
1:B:381:THR:CG2	1:C:1:ALA:HB2	2.21	0.71
1:B:422:LEU:HD22	1:C:221:LYS:HZ2	1.45	0.71
1:A:209:LYS:HB3	1:A:231:VAL:CG2	2.21	0.71
1:A:215:PHE:CD1	1:A:216:TRP:CE3	2.79	0.71
1:A:473:ILE:HG23	1:A:474:CYS:H	1.56	0.71
1:B:215:PHE:CD1	1:B:216:TRP:CE3	2.79	0.71
1:A:61:TRP:HZ3	1:A:326:ILE:HG21	1.54	0.70
1:A:252:TYR:HA	1:A:292:PHE:HZ	1.56	0.70
1:C:294:GLU:OE2	1:C:300:ARG:HG3	1.90	0.70
1:A:21:ARG:HG3	1:A:40:GLY:HA2	1.72	0.70
1:A:200:ILE:HG21	1:B:467:LYS:CA	2.21	0.70
1:B:14:LEU:CD1	1:B:62:ILE:HG22	2.21	0.70
1:C:45:ILE:CG2	1:C:103:LEU:HD21	2.21	0.70
1:A:195:VAL:HA	1:A:200:ILE:CD1	2.20	0.70
1:A:211:VAL:HG11	1:A:216:TRP:NE1	2.06	0.70
1:B:209:LYS:HB3	1:B:231:VAL:CG2	2.21	0.70
1:C:215:PHE:CD1	1:C:216:TRP:CE3	2.79	0.70
1:C:473:ILE:HG23	1:C:474:CYS:H	1.56	0.70
1:A:14:LEU:CD1	1:A:62:ILE:HG22	2.22	0.70
1:A:227:CYS:CB	1:B:476:ASP:CA	2.69	0.70
1:B:116:VAL:HG11	1:B:200:ILE:HG23	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:386:TYR:CG	1:C:288:LEU:HD12	2.26	0.70
1:C:179:THR:O	1:C:180:LYS:HB3	1.91	0.70
1:C:195:VAL:HA	1:C:200:ILE:CD1	2.20	0.70
1:A:341:PRO:HD2	1:A:342:ALA:N	1.88	0.70
1:B:204:ARG:CG	1:B:228:ILE:HB	2.18	0.70
1:C:209:LYS:HB3	1:C:231:VAL:CG2	2.21	0.70
1:C:252:TYR:HA	1:C:292:PHE:HZ	1.56	0.70
1:C:341:PRO:CD	1:C:342:ALA:N	2.54	0.70
1:A:45:ILE:CG2	1:A:103:LEU:HD21	2.21	0.70
1:A:64:PRO:HG3	1:A:82:TYR:CA	2.21	0.70
1:A:179:THR:O	1:A:180:LYS:HB3	1.91	0.70
1:B:11:ILE:HD13	1:B:324:LEU:HB3	1.73	0.70
1:B:195:VAL:HA	1:B:200:ILE:CD1	2.20	0.70
1:B:209:LYS:HD2	1:B:232:LEU:O	1.92	0.70
1:C:11:ILE:HD13	1:C:324:LEU:HB3	1.73	0.70
1:C:258:LEU:HD21	1:C:314:VAL:CG2	2.21	0.70
1:A:147:HIS:CA	1:B:110:ARG:C	2.48	0.70
1:A:165:TRP:HE1	1:B:110:ARG:CB	1.99	0.70
1:B:382:TYR:HE1	1:B:385:PRO:CD	2.04	0.70
1:C:211:VAL:HG11	1:C:216:TRP:NE1	2.07	0.70
1:A:116:VAL:HG11	1:A:200:ILE:HG23	1.73	0.70
1:A:209:LYS:HD2	1:A:232:LEU:O	1.92	0.70
1:A:11:ILE:HD13	1:A:324:LEU:HB3	1.73	0.70
1:A:189:ASP:CA	1:B:369:ARG:HA	2.21	0.70
1:A:221:LYS:HB2	1:B:436:VAL:CA	2.10	0.70
1:A:205:ILE:HB	1:B:478:SER:CB	2.22	0.69
1:A:208:VAL:CA	1:A:216:TRP:HZ2	2.03	0.69
1:B:238:TYR:CA	1:C:376:ASP:HA	2.22	0.69
1:B:381:THR:HG22	1:C:1:ALA:CB	2.22	0.69
1:B:468:LEU:HD23	1:B:473:ILE:CD1	2.21	0.69
1:C:116:VAL:HG11	1:C:200:ILE:HG23	1.74	0.69
1:A:185:ASN:HB3	1:B:366:ASN:OD1	1.92	0.69
1:B:149:PHE:HA	1:B:165:TRP:CD1	2.27	0.69
1:C:12:TYR:CD2	1:C:52:ILE:HG22	2.27	0.69
1:C:420:LEU:CD2	1:C:452:VAL:HG13	2.11	0.69
1:A:12:TYR:CD2	1:A:52:ILE:HG22	2.28	0.69
1:A:88:TYR:HE2	1:B:374:SER:N	1.90	0.69
1:A:190:TRP:CZ2	1:B:374:SER:HB3	2.26	0.69
1:A:221:LYS:CB	1:B:436:VAL:N	2.36	0.69
1:B:11:ILE:HD12	1:B:325:PRO:C	2.17	0.69
1:B:152:ILE:HD13	1:B:166:LEU:HG	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:277:ASN:ND2	1:C:285:ASP:O	2.25	0.69
1:B:399:THR:O	1:C:192:GLY:O	2.09	0.69
1:B:422:LEU:HD11	1:C:221:LYS:CB	2.21	0.69
1:C:14:LEU:CD1	1:C:62:ILE:HG22	2.21	0.69
1:C:16:THR:OG1	1:C:94:TYR:HE1	1.73	0.69
1:C:101:LYS:CG	1:C:198:TYR:HA	2.16	0.69
1:C:209:LYS:HD2	1:C:232:LEU:O	1.92	0.69
1:A:87:ILE:O	1:A:88:TYR:HD2	1.75	0.69
1:A:215:PHE:HE1	1:B:472:LYS:CB	2.05	0.69
1:A:341:PRO:CD	1:A:342:ALA:N	2.54	0.69
1:C:382:TYR:HE1	1:C:385:PRO:CD	2.04	0.69
1:A:146:PHE:H	1:B:112:MET:H	1.33	0.69
1:C:311:ALA:O	1:C:314:VAL:HG13	1.93	0.69
1:A:352:TYR:C	1:A:354:THR:H	1.99	0.69
1:B:12:TYR:CD2	1:B:52:ILE:HG22	2.27	0.69
1:B:216:TRP:HA	1:B:216:TRP:HE3	1.57	0.69
1:B:252:TYR:HA	1:B:292:PHE:HZ	1.56	0.69
1:B:408:LEU:HD13	1:B:408:LEU:H	1.58	0.69
1:B:386:TYR:CD1	1:C:288:LEU:CD1	2.74	0.69
1:A:11:ILE:HD12	1:A:325:PRO:C	2.17	0.69
1:A:216:TRP:HA	1:A:216:TRP:HE3	1.57	0.69
1:A:220:ASN:C	1:B:473:ILE:HG23	2.18	0.69
1:A:382:TYR:HE1	1:A:385:PRO:CD	2.04	0.69
1:B:9:GLN:HG3	1:B:58:THR:CB	2.18	0.69
1:B:45:ILE:HG21	1:B:103:LEU:HD11	1.75	0.69
1:B:87:ILE:O	1:B:88:TYR:HD2	1.74	0.69
1:B:179:THR:O	1:B:180:LYS:HB3	1.91	0.69
1:C:45:ILE:HG21	1:C:103:LEU:HD11	1.75	0.69
1:C:52:ILE:HG13	1:C:53:GLN:H	1.56	0.69
1:C:87:ILE:O	1:C:88:TYR:HD2	1.75	0.69
1:C:341:PRO:HD2	1:C:342:ALA:N	1.87	0.69
1:A:52:ILE:HG13	1:A:53:GLN:H	1.56	0.69
1:A:149:PHE:HA	1:A:165:TRP:CD1	2.27	0.69
1:A:182:VAL:CG2	1:B:10:SER:O	2.41	0.69
1:A:184:LYS:HD2	1:B:363:ALA:O	1.91	0.69
1:A:221:LYS:HG2	1:B:436:VAL:N	1.81	0.69
1:A:258:LEU:HD21	1:A:314:VAL:CG2	2.21	0.69
1:A:269:MET:HG3	1:A:393:ILE:HD11	1.75	0.69
1:B:123:MET:SD	1:B:137:PHE:HD1	2.16	0.69
1:C:69:LEU:HB2	1:C:71:GLN:NE2	2.06	0.69
1:C:216:TRP:CB	1:C:245:VAL:HG22	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:198:TYR:HB2	1:B:467:LYS:HZ1	1.56	0.69
1:A:406:THR:HG21	1:A:425:ALA:HB1	1.75	0.69
1:B:311:ALA:O	1:B:314:VAL:HG13	1.93	0.69
1:C:11:ILE:HD12	1:C:325:PRO:C	2.17	0.69
1:C:152:ILE:HD13	1:C:166:LEU:HG	1.74	0.69
1:C:269:MET:HG3	1:C:393:ILE:HD11	1.75	0.69
1:C:406:THR:HG21	1:C:425:ALA:HB1	1.75	0.69
1:A:200:ILE:HD12	1:B:467:LYS:HG3	1.75	0.68
1:A:215:PHE:CD1	1:A:216:TRP:CZ3	2.82	0.68
1:B:269:MET:HG3	1:B:393:ILE:HD11	1.75	0.68
1:B:273:TYR:CE1	1:B:386:TYR:HB2	2.28	0.68
1:A:69:LEU:HB2	1:A:71:GLN:NE2	2.06	0.68
1:A:107:LEU:CA	1:A:110:ARG:HG2	2.14	0.68
1:A:179:THR:OG1	1:B:49:LEU:O	2.12	0.68
1:A:214:ASP:CG	1:B:360:LYS:O	2.36	0.68
1:A:311:ALA:O	1:A:314:VAL:HG13	1.93	0.68
1:B:61:TRP:HZ3	1:B:326:ILE:HG21	1.54	0.68
1:B:161:VAL:HG23	1:B:210:HIS:HD2	1.58	0.68
1:B:215:PHE:CD1	1:B:216:TRP:CZ3	2.82	0.68
1:B:426:SER:HA	1:C:188:TYR:CD1	2.28	0.68
1:C:215:PHE:CD1	1:C:216:TRP:CZ3	2.82	0.68
1:A:16:THR:OG1	1:A:94:TYR:HE1	1.73	0.68
1:A:151:PHE:O	1:A:153:GLN:HG2	1.93	0.68
1:B:211:VAL:HG11	1:B:216:TRP:NE1	2.06	0.68
1:B:386:TYR:CZ	1:C:288:LEU:CD1	2.76	0.68
1:C:149:PHE:HA	1:C:165:TRP:CD1	2.27	0.68
1:C:216:TRP:HA	1:C:216:TRP:HE3	1.57	0.68
1:C:408:LEU:HD13	1:C:408:LEU:H	1.58	0.68
1:A:116:VAL:O	1:B:469:ALA:HB3	1.91	0.68
1:A:152:ILE:HD13	1:A:166:LEU:HG	1.74	0.68
1:A:221:LYS:C	1:B:434:THR:CG2	2.66	0.68
1:A:315:ALA:O	1:A:319:ILE:HG12	1.93	0.68
1:C:195:VAL:CG2	1:C:200:ILE:HB	2.13	0.68
1:C:273:TYR:CE1	1:C:386:TYR:HB2	2.29	0.68
1:A:208:VAL:N	1:B:472:LYS:CE	2.50	0.68
1:A:382:TYR:OH	1:A:396:ARG:HG2	1.93	0.68
1:B:341:PRO:HD2	1:B:342:ALA:N	1.88	0.68
1:B:406:THR:HG21	1:B:425:ALA:HB1	1.75	0.68
1:C:87:ILE:HG23	1:C:139:PRO:HG3	1.75	0.68
1:A:45:ILE:HG21	1:A:103:LEU:HD11	1.75	0.68
1:A:87:ILE:HG23	1:A:139:PRO:HG3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:SER:O	1:A:90:LEU:HB2	1.92	0.68
1:A:118:VAL:HB	1:B:471:SER:CB	2.18	0.68
1:A:178:THR:CA	1:B:52:ILE:HD12	2.22	0.68
1:A:180:LYS:HG3	1:B:12:TYR:CG	2.28	0.68
1:A:205:ILE:N	1:B:471:SER:HA	1.81	0.68
1:A:216:TRP:CB	1:A:245:VAL:HG22	2.23	0.68
1:A:225:VAL:CG2	1:B:465:THR:HG22	2.22	0.68
1:B:315:ALA:O	1:B:319:ILE:HG12	1.93	0.68
1:B:446:SER:HB3	1:C:181:ASP:N	2.08	0.68
1:C:107:LEU:CA	1:C:110:ARG:HG2	2.14	0.68
1:C:382:TYR:OH	1:C:396:ARG:HG2	1.93	0.68
1:A:227:CYS:HB2	1:B:476:ASP:N	2.08	0.68
1:A:228:ILE:N	1:B:476:ASP:HB2	1.99	0.68
1:B:28:ALA:HB3	1:B:348:TRP:HZ2	1.58	0.68
1:B:151:PHE:O	1:B:153:GLN:HG2	1.93	0.68
1:B:278:THR:HG21	1:C:381:THR:HG1	1.58	0.68
1:B:369:ARG:HH11	1:B:369:ARG:HB3	1.57	0.68
1:C:123:MET:SD	1:C:137:PHE:HD1	2.16	0.68
1:C:208:VAL:CG2	1:C:216:TRP:CE2	2.76	0.68
1:A:88:TYR:CZ	1:B:373:ILE:CA	2.65	0.68
1:A:123:MET:HE3	1:A:140:PHE:CE1	2.28	0.68
1:A:408:LEU:HD21	1:A:452:VAL:CG2	2.23	0.68
1:A:408:LEU:H	1:A:408:LEU:HD13	1.58	0.68
1:B:69:LEU:HB2	1:B:71:GLN:NE2	2.06	0.68
1:B:216:TRP:CB	1:B:245:VAL:HG22	2.23	0.68
1:B:385:PRO:HB3	1:C:226:TYR:N	2.09	0.68
1:C:52:ILE:HG13	1:C:53:GLN:N	2.08	0.68
1:C:151:PHE:O	1:C:153:GLN:HG2	1.93	0.68
1:A:115:MET:HE1	1:B:470:GLY:HA3	1.76	0.68
1:B:180:LYS:HZ3	1:B:182:VAL:HB	1.58	0.68
1:A:165:TRP:NE1	1:B:110:ARG:N	2.34	0.68
1:A:200:ILE:CG2	1:B:467:LYS:CA	2.72	0.68
1:A:208:VAL:CG2	1:A:216:TRP:CE2	2.76	0.68
1:A:273:TYR:CE1	1:A:386:TYR:HB2	2.28	0.68
1:B:89:SER:O	1:B:90:LEU:HB2	1.92	0.68
1:B:251:ASN:O	1:B:254:ILE:HG22	1.94	0.68
1:C:251:ASN:O	1:C:254:ILE:HG22	1.94	0.68
1:A:123:MET:SD	1:A:137:PHE:HD1	2.16	0.67
1:A:287:THR:HG21	1:A:380:VAL:C	2.20	0.67
1:B:52:ILE:HG13	1:B:53:GLN:N	2.08	0.67
1:B:402:SER:N	1:C:193:SER:HA	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:408:LEU:HD21	1:B:452:VAL:CG2	2.23	0.67
1:C:123:MET:HE3	1:C:140:PHE:CE1	2.28	0.67
1:C:287:THR:HG21	1:C:380:VAL:C	2.20	0.67
1:C:408:LEU:HD21	1:C:452:VAL:CG2	2.23	0.67
1:A:385:PRO:HD2	1:A:396:ARG:O	1.94	0.67
1:B:123:MET:HE3	1:B:140:PHE:CE1	2.28	0.67
1:B:238:TYR:CB	1:C:376:ASP:CG	2.65	0.67
1:C:161:VAL:HG23	1:C:210:HIS:HD2	1.58	0.67
1:A:52:ILE:HG13	1:A:53:GLN:N	2.08	0.67
1:A:215:PHE:CE2	1:B:367:ALA:HB1	2.29	0.67
1:A:217:PRO:C	1:B:473:ILE:O	2.37	0.67
1:A:251:ASN:O	1:A:254:ILE:HG22	1.94	0.67
1:B:87:ILE:HG23	1:B:139:PRO:HG3	1.75	0.67
1:B:205:ILE:HD12	1:B:208:VAL:CG2	2.25	0.67
1:C:111:GLY:O	1:C:112:MET:HB2	1.94	0.67
1:C:352:TYR:C	1:C:354:THR:H	1.99	0.67
1:A:221:LYS:O	1:B:434:THR:HG22	1.93	0.67
1:B:352:TYR:C	1:B:354:THR:H	1.99	0.67
1:B:424:GLY:HA3	1:C:220:ASN:HB3	0.83	0.67
1:C:64:PRO:HG3	1:C:82:TYR:CA	2.21	0.67
1:C:385:PRO:HD2	1:C:396:ARG:O	1.94	0.67
1:B:101:LYS:CG	1:B:198:TYR:HA	2.16	0.67
1:C:315:ALA:O	1:C:319:ILE:HG12	1.93	0.67
1:C:369:ARG:HB3	1:C:369:ARG:HH11	1.57	0.67
1:A:145:TYR:CE1	1:B:9:GLN:OE1	2.23	0.67
1:A:177:ASP:OD1	1:B:53:GLN:O	2.12	0.67
1:A:217:PRO:HB2	1:B:437:ILE:C	2.20	0.67
1:B:287:THR:HG21	1:B:380:VAL:C	2.20	0.67
1:B:446:SER:O	1:C:182:VAL:N	2.12	0.67
1:A:239:THR:HG21	1:A:253:PRO:HD3	1.76	0.67
1:A:246:MET:HE1	1:B:476:ASP:CG	2.20	0.67
1:A:369:ARG:HB3	1:A:369:ARG:HH11	1.57	0.67
1:C:205:ILE:HD12	1:C:208:VAL:CG2	2.24	0.67
1:B:64:PRO:HG3	1:B:82:TYR:CA	2.21	0.67
1:C:28:ALA:HB3	1:C:348:TRP:HZ2	1.58	0.67
1:A:187:TRP:O	1:B:368:ILE:O	2.07	0.67
1:A:190:TRP:CE3	1:A:191:VAL:CG1	2.78	0.67
1:A:251:ASN:OD1	1:A:254:ILE:HD12	1.95	0.67
1:B:208:VAL:CG2	1:B:216:TRP:CE2	2.76	0.67
1:B:449:ASN:HB2	1:C:184:LYS:HZ2	1.57	0.67
1:C:89:SER:O	1:C:90:LEU:HB2	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:165:TRP:NE1	1:B:110:ARG:CB	2.58	0.66
1:A:180:LYS:CG	1:B:327:ILE:HG21	2.23	0.66
1:A:184:LYS:HB2	1:B:363:ALA:O	1.94	0.66
1:B:176:LEU:HD22	1:B:187:TRP:HE1	1.59	0.66
1:B:182:VAL:O	1:B:186:GLU:HB3	1.95	0.66
1:C:211:VAL:CB	1:C:216:TRP:CZ2	2.78	0.66
1:A:147:HIS:ND1	1:A:148:PRO:HD2	2.10	0.66
1:A:153:GLN:O	1:A:154:ASN:HB3	1.95	0.66
1:A:200:ILE:HG22	1:A:203:LEU:CD1	2.25	0.66
1:C:382:TYR:CE1	1:C:397:LYS:HA	2.30	0.66
1:B:200:ILE:HG22	1:B:203:LEU:CD1	2.25	0.66
1:B:448:GLY:C	1:C:184:LYS:NZ	2.53	0.66
1:C:236:PRO:HG3	1:C:278:THR:HG21	1.77	0.66
1:C:399:THR:HG22	1:C:400:ASP:H	1.60	0.66
1:A:28:ALA:HB3	1:A:348:TRP:HZ2	1.58	0.66
1:A:140:PHE:CE2	1:A:176:LEU:HD21	2.31	0.66
1:A:194:LEU:HD13	1:B:375:LYS:CG	2.25	0.66
1:C:147:HIS:ND1	1:C:148:PRO:HD2	2.10	0.66
1:C:182:VAL:O	1:C:186:GLU:HB3	1.95	0.66
1:A:176:LEU:HD22	1:A:187:TRP:HE1	1.59	0.66
1:A:186:GLU:CD	1:B:370:ASN:CA	2.59	0.66
1:A:205:ILE:HD12	1:A:208:VAL:CG2	2.25	0.66
1:A:211:VAL:CB	1:A:216:TRP:CZ2	2.78	0.66
1:B:385:PRO:HD2	1:B:396:ARG:O	1.94	0.66
1:C:200:ILE:HG22	1:C:203:LEU:CD1	2.25	0.66
1:C:362:ILE:O	1:C:366:ASN:HB2	1.96	0.66
1:A:111:GLY:O	1:A:112:MET:HB2	1.94	0.66
1:A:346:ALA:HB1	1:A:348:TRP:CE3	2.31	0.66
1:A:399:THR:HG22	1:A:400:ASP:H	1.60	0.66
1:B:111:GLY:O	1:B:112:MET:HB2	1.94	0.66
1:B:140:PHE:CE2	1:B:176:LEU:HD21	2.31	0.66
1:B:194:LEU:HG	1:B:200:ILE:HD13	1.78	0.66
1:B:236:PRO:CB	1:C:380:VAL:CG1	2.74	0.66
1:B:258:LEU:O	1:B:262:PHE:HB2	1.95	0.66
1:C:140:PHE:CE2	1:C:176:LEU:HD21	2.31	0.66
1:C:239:THR:HG21	1:C:253:PRO:HD3	1.77	0.66
1:C:346:ALA:HB1	1:C:348:TRP:CE3	2.31	0.66
1:A:258:LEU:O	1:A:262:PHE:HB2	1.95	0.66
1:B:190:TRP:CE3	1:B:191:VAL:CG1	2.78	0.66
1:B:211:VAL:CG2	1:B:215:PHE:HB3	2.26	0.66
1:C:83:TRP:NE1	1:C:173:LEU:HD21	2.03	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:251:ASN:OD1	1:C:254:ILE:HD12	1.95	0.66
1:A:185:ASN:OD1	1:B:369:ARG:CD	2.44	0.66
1:A:236:PRO:HG3	1:A:278:THR:HG21	1.77	0.66
1:A:379:PHE:CZ	1:A:397:LYS:HE3	2.31	0.66
1:B:187:TRP:CZ3	1:B:190:TRP:CZ3	2.84	0.66
1:B:382:TYR:CE1	1:B:397:LYS:HA	2.31	0.66
1:C:11:ILE:CG1	1:C:324:LEU:HD23	2.24	0.66
1:C:55:MET:O	1:C:362:ILE:HG22	1.96	0.66
1:A:182:VAL:O	1:A:186:GLU:HB3	1.95	0.66
1:A:204:ARG:O	1:B:471:SER:HA	1.58	0.66
1:B:55:MET:O	1:B:362:ILE:HG22	1.96	0.66
1:B:238:TYR:HD2	1:C:403:GLN:CD	2.03	0.66
1:B:379:PHE:CZ	1:B:397:LYS:HE3	2.31	0.66
1:A:180:LYS:CD	1:B:12:TYR:CB	2.65	0.66
1:A:211:VAL:CG2	1:A:215:PHE:HB3	2.26	0.66
1:C:153:GLN:O	1:C:154:ASN:HB3	1.95	0.66
1:C:211:VAL:CG2	1:C:215:PHE:HB3	2.26	0.66
1:A:55:MET:O	1:A:362:ILE:HG22	1.96	0.65
1:A:362:ILE:O	1:A:366:ASN:HB2	1.96	0.65
1:B:211:VAL:CB	1:B:216:TRP:CZ2	2.78	0.65
1:B:239:THR:HG21	1:B:253:PRO:HD3	1.76	0.65
1:B:243:GLN:HB3	1:B:284:PRO:CG	2.25	0.65
1:B:278:THR:C	1:C:380:VAL:CG1	2.69	0.65
1:B:346:ALA:HB1	1:B:348:TRP:CE3	2.31	0.65
1:C:176:LEU:HD22	1:C:187:TRP:HE1	1.59	0.65
1:C:190:TRP:CE3	1:C:191:VAL:CG1	2.78	0.65
1:C:243:GLN:HB3	1:C:284:PRO:CG	2.25	0.65
1:A:222:ALA:HB1	1:B:368:ILE:HG13	0.65	0.65
1:B:251:ASN:OD1	1:B:254:ILE:HD12	1.95	0.65
1:A:195:VAL:HG11	1:B:464:PRO:O	1.96	0.65
1:B:410:ASN:HB3	1:B:454:MET:CE	2.26	0.65
1:C:11:ILE:HG21	1:C:326:ILE:HG12	1.78	0.65
1:A:195:VAL:HG11	1:B:464:PRO:C	2.22	0.65
1:A:243:GLN:HB3	1:A:284:PRO:CG	2.25	0.65
1:A:305:THR:HG23	1:A:307:ASP:OD2	1.97	0.65
1:B:236:PRO:HG3	1:B:278:THR:HG21	1.77	0.65
1:B:305:THR:HG23	1:B:307:ASP:OD2	1.97	0.65
1:B:385:PRO:HA	1:C:3:PRO:CB	2.27	0.65
1:B:472:LYS:O	1:B:473:ILE:HG22	1.97	0.65
1:A:87:ILE:CG1	1:B:374:SER:HA	2.11	0.65
1:A:191:VAL:O	1:B:467:LYS:HB3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:332:GLU:HG2	1:A:333:GLN:H	1.62	0.65
1:B:124:GLY:N	1:B:174:PRO:HD2	2.12	0.65
1:B:147:HIS:ND1	1:B:148:PRO:HD2	2.10	0.65
1:B:153:GLN:O	1:B:154:ASN:HB3	1.95	0.65
1:A:186:GLU:CA	1:B:369:ARG:HH11	2.10	0.65
1:A:194:LEU:HG	1:A:200:ILE:HD13	1.78	0.65
1:A:213:LYS:O	1:A:214:ASP:HB3	1.97	0.65
1:A:341:PRO:HD2	1:A:342:ALA:H	1.59	0.65
1:B:341:PRO:CD	1:B:342:ALA:N	2.54	0.65
1:C:194:LEU:HG	1:C:200:ILE:HD13	1.78	0.65
1:A:11:ILE:HG21	1:A:326:ILE:HG12	1.78	0.65
1:A:148:PRO:HA	1:B:107:LEU:N	2.09	0.65
1:A:218:GLY:CA	1:B:364:SER:HB3	2.27	0.65
1:C:379:PHE:CZ	1:C:397:LYS:HE3	2.31	0.65
1:A:187:TRP:CZ3	1:A:190:TRP:CZ3	2.84	0.65
1:B:238:TYR:CD2	1:C:403:GLN:NE2	2.64	0.65
1:B:383:LYS:HZ3	1:C:5:ASP:C	2.05	0.65
1:B:385:PRO:HB3	1:C:226:TYR:HA	1.79	0.65
1:A:410:ASN:HB3	1:A:454:MET:CE	2.26	0.65
1:C:123:MET:HE3	1:C:140:PHE:HE1	1.62	0.65
1:C:187:TRP:CZ3	1:C:190:TRP:CZ3	2.84	0.65
1:C:258:LEU:O	1:C:262:PHE:HB2	1.95	0.65
1:A:205:ILE:CG2	1:B:472:LYS:N	2.59	0.65
1:A:223:ALA:C	1:B:465:THR:HA	2.21	0.65
1:A:382:TYR:CE1	1:A:397:LYS:HA	2.30	0.65
1:B:399:THR:CG2	1:C:196:SER:C	2.69	0.65
1:C:124:GLY:N	1:C:174:PRO:HD2	2.12	0.65
1:A:11:ILE:CG1	1:A:324:LEU:HD23	2.24	0.64
1:A:144:ASP:O	1:B:58:THR:C	2.41	0.64
1:B:258:LEU:HD21	1:B:314:VAL:CG2	2.21	0.64
1:C:332:GLU:HG2	1:C:333:GLN:H	1.62	0.64
1:C:410:ASN:HB3	1:C:454:MET:CE	2.26	0.64
1:A:145:TYR:CE1	1:B:113:TYR:CD2	2.84	0.64
1:A:161:VAL:HG23	1:A:210:HIS:HD2	1.58	0.64
1:A:226:TYR:HA	1:A:247:ASP:OD1	1.97	0.64
1:B:383:LYS:C	1:C:3:PRO:CD	2.59	0.64
1:C:78:ALA:O	1:C:81:GLY:HA2	1.97	0.64
1:C:88:TYR:CE2	1:C:139:PRO:HB3	2.32	0.64
1:C:341:PRO:HD2	1:C:342:ALA:H	1.59	0.64
1:A:11:ILE:HD11	1:A:324:LEU:CA	2.28	0.64
1:A:88:TYR:CE2	1:A:139:PRO:HB3	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:385:PRO:CA	1:C:3:PRO:HG3	2.27	0.64
1:A:124:GLY:N	1:A:174:PRO:HD2	2.12	0.64
1:B:88:TYR:CE2	1:B:139:PRO:HB3	2.32	0.64
1:C:87:ILE:O	1:C:88:TYR:CD2	2.51	0.64
1:A:197:ASN:ND2	1:C:196:SER:OG	2.19	0.64
1:A:216:TRP:CE3	1:A:216:TRP:HA	2.33	0.64
1:B:87:ILE:O	1:B:88:TYR:CD2	2.51	0.64
1:B:213:LYS:CE	1:C:375:LYS:HG3	2.27	0.64
1:B:213:LYS:O	1:B:214:ASP:HB3	1.97	0.64
1:A:83:TRP:NE1	1:A:173:LEU:HD21	2.03	0.64
1:A:196:SER:OG	1:C:193:SER:HA	1.97	0.64
1:B:11:ILE:HG21	1:B:326:ILE:HG12	1.78	0.64
1:B:226:TYR:HA	1:B:247:ASP:OD1	1.98	0.64
1:B:237:ALA:CA	1:C:379:PHE:H	2.06	0.64
1:C:11:ILE:HD11	1:C:324:LEU:CA	2.27	0.64
1:B:332:GLU:HG2	1:B:333:GLN:H	1.62	0.64
1:B:384:ASN:HD21	1:B:395:MET:HE2	1.62	0.64
1:B:388:LYS:CA	1:C:244:ASN:O	2.42	0.64
1:C:216:TRP:CE3	1:C:216:TRP:HA	2.33	0.64
1:B:11:ILE:HD11	1:B:324:LEU:CA	2.28	0.64
1:B:78:ALA:O	1:B:81:GLY:HA2	1.97	0.64
1:B:216:TRP:CE3	1:B:216:TRP:HA	2.33	0.64
1:B:385:PRO:N	1:C:3:PRO:HD2	1.65	0.64
1:C:226:TYR:HA	1:C:247:ASP:OD1	1.97	0.64
1:C:383:LYS:O	1:C:385:PRO:HD3	1.97	0.64
1:C:384:ASN:HD21	1:C:395:MET:HE2	1.62	0.64
1:A:11:ILE:CD1	1:A:326:ILE:HG12	2.26	0.64
1:A:55:MET:SD	1:A:362:ILE:HD13	2.38	0.64
1:A:123:MET:HE3	1:A:140:PHE:HE1	1.62	0.64
1:A:252:TYR:HA	1:A:292:PHE:CZ	2.33	0.64
1:A:458:LEU:HD13	1:A:460:ARG:HH22	1.62	0.64
1:C:180:LYS:HZ3	1:C:182:VAL:HB	1.62	0.64
1:A:11:ILE:HB	1:A:326:ILE:HG12	1.79	0.64
1:A:78:ALA:O	1:A:81:GLY:HA2	1.96	0.64
1:A:87:ILE:O	1:A:88:TYR:CD2	2.51	0.64
1:A:178:THR:HA	1:B:112:MET:HE2	1.79	0.64
1:A:190:TRP:CE3	1:B:371:TYR:CG	2.86	0.64
1:A:292:PHE:O	1:A:293:VAL:HG12	1.98	0.64
1:A:384:ASN:HD21	1:A:395:MET:HE2	1.62	0.64
1:B:11:ILE:CD1	1:B:326:ILE:HG12	2.26	0.64
1:B:83:TRP:NE1	1:B:173:LEU:HD21	2.03	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:383:LYS:CD	1:C:5:ASP:CB	2.73	0.64
1:B:399:THR:HG22	1:C:195:VAL:C	2.23	0.64
1:B:406:THR:HG21	1:C:221:LYS:C	2.23	0.64
1:B:430:GLY:CA	1:C:185:ASN:ND2	2.61	0.64
1:C:208:VAL:CA	1:C:216:TRP:HZ2	2.03	0.64
1:C:213:LYS:O	1:C:214:ASP:HB3	1.97	0.64
1:C:305:THR:HG23	1:C:307:ASP:OD2	1.97	0.64
1:A:383:LYS:O	1:A:385:PRO:HD3	1.97	0.63
1:B:172:SER:O	1:B:174:PRO:HD3	1.97	0.63
1:B:251:ASN:HB3	1:B:254:ILE:CG2	2.28	0.63
1:B:274:ASN:O	1:C:286:SER:OG	2.15	0.63
1:B:280:LYS:HB2	1:C:3:PRO:O	1.95	0.63
1:C:11:ILE:HB	1:C:326:ILE:HG12	1.79	0.63
1:C:292:PHE:O	1:C:293:VAL:HG12	1.98	0.63
1:C:472:LYS:O	1:C:473:ILE:HG22	1.97	0.63
1:A:182:VAL:N	1:B:57:PHE:CG	2.58	0.63
1:A:225:VAL:O	1:A:225:VAL:HG12	1.98	0.63
1:B:11:ILE:HB	1:B:326:ILE:HG12	1.79	0.63
1:B:292:PHE:O	1:B:293:VAL:HG12	1.98	0.63
1:B:422:LEU:HD13	1:C:221:LYS:HZ2	1.62	0.63
1:C:45:ILE:CG2	1:C:49:LEU:HD11	2.06	0.63
1:C:252:TYR:HA	1:C:292:PHE:CZ	2.33	0.63
1:C:473:ILE:CG2	1:C:474:CYS:H	2.10	0.63
1:B:252:TYR:HA	1:B:292:PHE:CZ	2.33	0.63
1:C:55:MET:SD	1:C:362:ILE:HD13	2.38	0.63
1:A:68:GLN:HE22	1:A:81:GLY:HA2	1.62	0.63
1:A:165:TRP:NE1	1:B:110:ARG:CA	1.78	0.63
1:A:473:ILE:CG2	1:A:474:CYS:H	2.10	0.63
1:B:383:LYS:O	1:B:385:PRO:HD3	1.97	0.63
1:B:458:LEU:HD13	1:B:460:ARG:HH22	1.62	0.63
1:C:75:TYR:HE1	1:C:170:THR:CG2	2.12	0.63
1:A:68:GLN:O	1:A:85:THR:HG21	1.99	0.63
1:A:75:TYR:HE1	1:A:170:THR:CG2	2.12	0.63
1:A:472:LYS:O	1:A:473:ILE:HG22	1.97	0.63
1:B:371:TYR:CD2	1:B:473:ILE:HD11	2.34	0.63
1:C:11:ILE:CD1	1:C:326:ILE:HG12	2.26	0.63
1:A:200:ILE:HG22	1:B:468:LEU:N	2.14	0.63
1:B:75:TYR:CE1	1:B:170:THR:HG21	2.34	0.63
1:B:387:ILE:HG23	1:B:388:LYS:H	1.63	0.63
1:C:387:ILE:HG23	1:C:388:LYS:H	1.63	0.63
1:C:458:LEU:HD13	1:C:460:ARG:HH22	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:55:MET:HB3	1:A:57:PHE:CE2	2.34	0.63
1:A:187:TRP:CB	1:B:367:ALA:O	2.47	0.63
1:A:224:GLY:CA	1:B:434:THR:CB	2.72	0.63
1:B:55:MET:SD	1:B:362:ILE:HD13	2.38	0.63
1:C:172:SER:O	1:C:174:PRO:HD3	1.98	0.63
1:A:387:ILE:HG23	1:A:388:LYS:H	1.63	0.63
1:B:75:TYR:HE1	1:B:170:THR:CG2	2.12	0.63
1:C:371:TYR:CD2	1:C:473:ILE:HD11	2.34	0.63
1:A:177:ASP:CB	1:B:53:GLN:HG2	2.27	0.63
1:A:194:LEU:HD22	1:B:375:LYS:HG2	0.68	0.63
1:A:197:ASN:CA	1:B:467:LYS:HE3	2.28	0.63
1:B:2:THR:HB	1:B:3:PRO:CD	2.22	0.63
1:B:45:ILE:CG2	1:B:49:LEU:HD11	2.06	0.63
1:B:341:PRO:HD2	1:B:342:ALA:H	1.59	0.63
1:C:55:MET:HB3	1:C:57:PHE:CE2	2.34	0.63
1:C:68:GLN:O	1:C:85:THR:HG21	1.99	0.63
1:C:68:GLN:HE22	1:C:81:GLY:HA2	1.62	0.63
1:C:225:VAL:O	1:C:225:VAL:HG12	1.98	0.63
1:A:45:ILE:CG2	1:A:49:LEU:HD11	2.06	0.62
1:A:143:GLN:OE1	1:B:112:MET:O	2.16	0.62
1:A:144:ASP:OD1	1:B:6:TRP:HH2	1.81	0.62
1:A:208:VAL:CG2	1:B:478:SER:N	2.33	0.62
1:B:208:VAL:HG23	1:B:216:TRP:CZ2	2.34	0.62
1:B:238:TYR:CB	1:C:376:ASP:CB	2.76	0.62
1:B:341:PRO:CD	1:B:342:ALA:H	2.12	0.62
1:C:91:ASN:C	1:C:92:GLU:HG3	2.20	0.62
1:C:341:PRO:CD	1:C:342:ALA:H	2.12	0.62
1:A:341:PRO:CD	1:A:342:ALA:H	2.12	0.62
1:B:68:GLN:HE22	1:B:81:GLY:HA2	1.62	0.62
1:B:225:VAL:O	1:B:225:VAL:HG12	1.98	0.62
1:B:281:SER:CB	1:C:6:TRP:O	2.47	0.62
1:B:11:ILE:HD12	1:B:325:PRO:O	1.99	0.62
1:A:172:SER:O	1:A:174:PRO:HD3	1.98	0.62
1:A:177:ASP:HB3	1:B:53:GLN:CG	2.29	0.62
1:B:430:GLY:N	1:C:185:ASN:CB	2.58	0.62
1:C:208:VAL:HG23	1:C:216:TRP:CZ2	2.34	0.62
1:A:52:ILE:O	1:A:55:MET:HB2	2.00	0.62
1:A:208:VAL:HG23	1:A:216:TRP:CZ2	2.34	0.62
1:A:371:TYR:CD2	1:A:473:ILE:HD11	2.34	0.62
1:B:79:TYR:CE2	1:B:344:ARG:HG2	2.35	0.62
1:B:383:LYS:HD2	1:C:5:ASP:CB	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:75:TYR:CE1	1:C:170:THR:HG21	2.34	0.62
1:C:180:LYS:O	1:C:180:LYS:HD3	2.00	0.62
1:A:11:ILE:HD12	1:A:325:PRO:O	1.99	0.62
1:B:69:LEU:CB	1:B:71:GLN:HE21	2.12	0.62
1:B:274:ASN:O	1:C:286:SER:CB	2.46	0.62
1:C:251:ASN:HB3	1:C:254:ILE:CG2	2.29	0.62
1:A:218:GLY:HA2	1:B:437:ILE:H	1.65	0.62
1:A:251:ASN:HB3	1:A:254:ILE:CG2	2.28	0.62
1:C:48:LYS:O	1:C:49:LEU:HB2	2.00	0.62
1:A:428:THR:HG23	1:A:431:GLN:HB2	1.82	0.62
1:B:180:LYS:O	1:B:180:LYS:HD3	2.00	0.62
1:B:383:LYS:HB3	1:C:6:TRP:CD1	2.15	0.62
1:A:75:TYR:CE1	1:A:170:THR:HG21	2.34	0.62
1:A:143:GLN:HG3	1:B:108:HIS:NE2	2.13	0.62
1:B:327:ILE:O	1:B:327:ILE:HG23	2.00	0.62
1:A:148:PRO:HG3	1:B:49:LEU:HD23	1.82	0.62
1:A:179:THR:CG2	1:B:50:ASP:O	2.48	0.62
1:A:187:TRP:CZ3	1:B:374:SER:CB	2.82	0.62
1:B:381:THR:CG2	1:C:201:ASP:OD1	2.48	0.62
1:B:387:ILE:CG2	1:B:395:MET:HA	2.28	0.62
1:B:428:THR:HG23	1:B:431:GLN:HB2	1.82	0.62
1:C:428:THR:HG23	1:C:431:GLN:HB2	1.82	0.62
1:A:180:LYS:NZ	1:B:11:ILE:CA	2.61	0.61
1:B:400:ASP:HB2	1:C:193:SER:C	2.10	0.61
1:C:472:LYS:HG2	1:C:478:SER:OXT	2.01	0.61
1:A:79:TYR:CE2	1:A:344:ARG:HG2	2.35	0.61
1:A:143:GLN:NE2	1:B:108:HIS:HA	2.12	0.61
1:B:68:GLN:O	1:B:85:THR:HG21	1.99	0.61
1:B:332:GLU:HA	1:B:358:LEU:HB3	1.82	0.61
1:C:11:ILE:HD12	1:C:325:PRO:O	1.99	0.61
1:C:258:LEU:HG	1:C:262:PHE:CD2	2.34	0.61
1:A:2:THR:HB	1:A:3:PRO:CD	2.22	0.61
1:A:258:LEU:HG	1:A:262:PHE:CD2	2.34	0.61
1:B:13:PHE:CD2	1:B:328:TYR:HD2	2.19	0.61
1:B:316:ALA:HA	1:B:319:ILE:HD11	1.82	0.61
1:A:48:LYS:O	1:A:49:LEU:HB2	2.00	0.61
1:A:144:ASP:HB3	1:B:58:THR:O	1.99	0.61
1:A:217:PRO:HG2	1:B:364:SER:CB	2.28	0.61
1:A:230:GLU:C	1:A:250:LEU:HD23	2.25	0.61
1:A:239:THR:HG21	1:A:253:PRO:CD	2.31	0.61
1:B:237:ALA:CB	1:C:379:PHE:CA	2.62	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:258:LEU:HG	1:B:262:PHE:CD2	2.34	0.61
1:B:382:TYR:CE1	1:C:2:THR:HG23	2.32	0.61
1:B:385:PRO:HB3	1:C:226:TYR:H	1.65	0.61
1:B:472:LYS:HG2	1:B:478:SER:OXT	2.01	0.61
1:C:52:ILE:O	1:C:55:MET:HB2	2.00	0.61
1:C:52:ILE:CD1	1:C:112:MET:SD	2.88	0.61
1:C:79:TYR:CE2	1:C:344:ARG:HG2	2.35	0.61
1:C:79:TYR:HE2	1:C:344:ARG:HG2	1.64	0.61
1:A:11:ILE:HG22	1:A:326:ILE:HG23	1.83	0.61
1:A:200:ILE:HB	1:B:467:LYS:CA	2.23	0.61
1:B:6:TRP:CH2	1:B:113:TYR:HB3	2.36	0.61
1:B:52:ILE:CD1	1:B:112:MET:SD	2.88	0.61
1:B:79:TYR:HE2	1:B:344:ARG:HG2	1.64	0.61
1:B:238:TYR:N	1:C:377:THR:N	2.38	0.61
1:B:239:THR:HG21	1:B:253:PRO:CD	2.31	0.61
1:C:6:TRP:CH2	1:C:113:TYR:HB3	2.36	0.61
1:C:9:GLN:HG3	1:C:58:THR:CB	2.17	0.61
1:A:104:SER:O	1:A:108:HIS:HB2	2.00	0.61
1:A:472:LYS:HG2	1:A:478:SER:OXT	2.01	0.61
1:B:104:SER:O	1:B:108:HIS:HB2	2.00	0.61
1:B:230:GLU:C	1:B:250:LEU:HD23	2.25	0.61
1:C:104:SER:O	1:C:108:HIS:HB2	2.00	0.61
1:C:230:GLU:C	1:C:250:LEU:HD23	2.25	0.61
1:A:6:TRP:CH2	1:A:113:TYR:HB3	2.36	0.61
1:A:186:GLU:CA	1:B:369:ARG:NH1	2.63	0.61
1:A:387:ILE:CG2	1:A:395:MET:HA	2.28	0.61
1:B:11:ILE:HG22	1:B:326:ILE:HG23	1.83	0.61
1:C:13:PHE:CD2	1:C:328:TYR:HD2	2.19	0.61
1:C:472:LYS:O	1:C:473:ILE:HB	2.01	0.61
1:A:13:PHE:CD2	1:A:328:TYR:HD2	2.19	0.61
1:A:185:ASN:CB	1:B:366:ASN:OD1	2.49	0.61
1:C:332:GLU:HA	1:C:358:LEU:HB3	1.82	0.61
1:B:55:MET:HB3	1:B:57:PHE:CE2	2.34	0.61
1:C:11:ILE:HG22	1:C:326:ILE:HG23	1.83	0.61
1:A:79:TYR:HE2	1:A:344:ARG:HG2	1.64	0.61
1:A:184:LYS:CG	1:B:56:GLY:CA	2.48	0.61
1:B:123:MET:HE3	1:B:140:PHE:HE1	1.62	0.61
1:B:383:LYS:HZ1	1:C:5:ASP:HB3	1.66	0.61
1:B:422:LEU:HD11	1:C:221:LYS:HG2	0.65	0.61
1:A:52:ILE:CD1	1:A:112:MET:SD	2.88	0.60
1:A:145:TYR:HE2	1:B:9:GLN:CB	2.06	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:163:ASP:CB	1:B:53:GLN:OE1	2.48	0.60
1:B:444:VAL:HG23	1:C:185:ASN:OD1	2.01	0.60
1:C:327:ILE:HG23	1:C:327:ILE:O	2.00	0.60
1:A:13:PHE:O	1:A:329:ALA:HB2	2.01	0.60
1:A:91:ASN:C	1:A:92:GLU:HG3	2.20	0.60
1:A:147:HIS:CA	1:B:111:GLY:O	2.50	0.60
1:A:194:LEU:CD1	1:B:375:LYS:CB	2.73	0.60
1:A:327:ILE:HG23	1:A:327:ILE:O	2.00	0.60
1:A:332:GLU:HA	1:A:358:LEU:HB3	1.82	0.60
1:B:91:ASN:C	1:B:92:GLU:HG3	2.20	0.60
1:B:236:PRO:HB3	1:C:380:VAL:CG1	2.30	0.60
1:B:382:TYR:CE1	1:C:2:THR:CG2	2.83	0.60
1:C:69:LEU:CB	1:C:71:GLN:HE21	2.12	0.60
1:C:258:LEU:CD1	1:C:317:PHE:CE1	2.85	0.60
1:A:9:GLN:HG3	1:A:58:THR:CB	2.18	0.60
1:A:194:LEU:CD1	1:B:375:LYS:CG	2.78	0.60
1:A:212:GLN:NE2	1:B:53:GLN:C	2.38	0.60
1:A:251:ASN:HB2	1:A:290:GLY:O	2.01	0.60
1:A:468:LEU:HD22	1:A:473:ILE:HG21	1.83	0.60
1:B:258:LEU:CD1	1:B:317:PHE:CE1	2.84	0.60
1:A:84:GLN:HE22	1:B:375:LYS:HZ3	1.39	0.60
1:A:183:VAL:HG13	1:A:184:LYS:H	1.66	0.60
1:A:194:LEU:O	1:B:467:LYS:CE	2.50	0.60
1:A:243:GLN:HA	1:A:249:VAL:CG1	2.31	0.60
1:C:387:ILE:CG2	1:C:395:MET:HA	2.28	0.60
1:A:192:GLY:C	1:B:464:PRO:CG	2.74	0.60
1:A:316:ALA:HA	1:A:319:ILE:HD11	1.82	0.60
1:B:430:GLY:N	1:C:185:ASN:OD1	2.29	0.60
1:B:459:PRO:O	1:B:460:ARG:HB2	2.01	0.60
1:C:195:VAL:CA	1:C:200:ILE:HD12	2.30	0.60
1:C:239:THR:HG21	1:C:253:PRO:CD	2.31	0.60
1:C:255:TYR:CG	1:C:292:PHE:HE2	2.20	0.60
1:A:243:GLN:CA	1:A:249:VAL:HG11	2.31	0.60
1:A:255:TYR:CG	1:A:292:PHE:HE2	2.20	0.60
1:B:255:TYR:CG	1:B:292:PHE:HE2	2.19	0.60
1:C:28:ALA:HB3	1:C:348:TRP:CZ2	2.36	0.60
1:A:188:TYR:OH	1:B:363:ALA:O	2.19	0.60
1:A:221:LYS:HA	1:B:474:CYS:SG	2.39	0.60
1:B:28:ALA:HB3	1:B:348:TRP:CZ2	2.37	0.60
1:B:48:LYS:O	1:B:49:LEU:HB2	2.00	0.60
1:B:52:ILE:O	1:B:55:MET:HB2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:243:GLN:CA	1:B:249:VAL:HG11	2.31	0.60
1:B:251:ASN:HB2	1:B:290:GLY:O	2.01	0.60
1:B:448:GLY:C	1:C:184:LYS:HZ2	2.08	0.60
1:C:183:VAL:HG13	1:C:184:LYS:H	1.66	0.60
1:C:468:LEU:HD22	1:C:473:ILE:HG21	1.83	0.60
1:A:58:THR:HG22	1:A:112:MET:HA	1.84	0.60
1:A:88:TYR:CE2	1:B:374:SER:N	2.66	0.60
1:A:205:ILE:HG12	1:B:472:LYS:N	2.14	0.60
1:B:383:LYS:HZ3	1:C:5:ASP:CA	2.15	0.60
1:B:472:LYS:O	1:B:473:ILE:HB	2.01	0.60
1:C:11:ILE:CG2	1:C:326:ILE:HG12	2.32	0.60
1:C:316:ALA:HA	1:C:319:ILE:HD11	1.82	0.60
1:B:258:LEU:HD11	1:B:317:PHE:CE1	2.37	0.60
1:C:243:GLN:HA	1:C:249:VAL:CG1	2.31	0.60
1:C:243:GLN:CA	1:C:249:VAL:HG11	2.31	0.60
1:A:180:LYS:HE2	1:B:57:PHE:CG	2.37	0.59
1:A:200:ILE:CD1	1:B:467:LYS:HZ2	2.12	0.59
1:C:435:GLU:OE1	1:C:436:VAL:HG12	2.02	0.59
1:A:11:ILE:CG2	1:A:326:ILE:HG12	2.32	0.59
1:A:87:ILE:HD11	1:A:190:TRP:CZ2	2.37	0.59
1:A:188:TYR:CE1	1:B:367:ALA:HB3	2.37	0.59
1:A:258:LEU:HD11	1:A:317:PHE:CE1	2.37	0.59
1:B:11:ILE:CG1	1:B:324:LEU:HD23	2.24	0.59
1:B:312:LYS:HG2	1:B:361:LEU:HD13	1.84	0.59
1:C:87:ILE:HD11	1:C:190:TRP:CZ2	2.37	0.59
1:C:251:ASN:HB2	1:C:290:GLY:O	2.01	0.59
1:C:258:LEU:HD11	1:C:317:PHE:CE1	2.37	0.59
1:A:196:SER:OG	1:B:400:ASP:C	2.45	0.59
1:A:199:SER:C	1:A:200:ILE:HG13	2.16	0.59
1:A:222:ALA:HB2	1:B:368:ILE:HB	1.83	0.59
1:A:258:LEU:CD1	1:A:317:PHE:CE1	2.85	0.59
1:A:435:GLU:OE1	1:A:436:VAL:HG12	2.02	0.59
1:B:11:ILE:CB	1:B:326:ILE:HG12	2.32	0.59
1:B:213:LYS:CG	1:C:375:LYS:HG3	2.31	0.59
1:B:236:PRO:HB3	1:B:278:THR:HG22	1.84	0.59
1:A:11:ILE:CB	1:A:326:ILE:HG12	2.32	0.59
1:A:182:VAL:HG13	1:A:183:VAL:N	2.17	0.59
1:A:221:LYS:C	1:B:434:THR:HG22	2.27	0.59
1:A:262:PHE:O	1:A:263:LYS:HG2	2.03	0.59
1:A:312:LYS:HG2	1:A:361:LEU:HD13	1.85	0.59
1:A:472:LYS:O	1:A:473:ILE:HB	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:238:TYR:CA	1:C:376:ASP:CG	2.75	0.59
1:B:280:LYS:NZ	1:C:226:TYR:CB	2.58	0.59
1:B:383:LYS:HB2	1:C:6:TRP:CD1	2.34	0.59
1:B:424:GLY:O	1:C:218:GLY:C	2.44	0.59
1:B:435:GLU:OE1	1:B:436:VAL:HG12	2.02	0.59
1:C:58:THR:HG22	1:C:112:MET:HA	1.83	0.59
1:C:258:LEU:HG	1:C:262:PHE:CE2	2.37	0.59
1:C:312:LYS:HG2	1:C:361:LEU:HD13	1.85	0.59
1:A:187:TRP:CG	1:B:370:ASN:CB	2.81	0.59
1:B:243:GLN:HB3	1:B:284:PRO:HD2	1.85	0.59
1:B:243:GLN:HA	1:B:249:VAL:CG1	2.31	0.59
1:B:262:PHE:O	1:B:263:LYS:HG2	2.03	0.59
1:B:386:TYR:HD2	1:C:3:PRO:HB3	1.68	0.59
1:A:187:TRP:HZ3	1:A:190:TRP:CZ3	2.21	0.59
1:A:205:ILE:CB	1:B:478:SER:CB	2.81	0.59
1:A:258:LEU:HG	1:A:262:PHE:CE2	2.38	0.59
1:C:13:PHE:O	1:C:329:ALA:HB2	2.01	0.59
1:A:228:ILE:HA	1:B:476:ASP:O	2.02	0.59
1:A:251:ASN:HB3	1:A:254:ILE:HG22	1.84	0.59
1:B:183:VAL:HG13	1:B:184:LYS:H	1.67	0.59
1:B:208:VAL:CG2	1:B:246:MET:SD	2.88	0.59
1:B:216:TRP:HB2	1:B:245:VAL:CG2	2.29	0.59
1:C:315:ALA:CA	1:C:318:ILE:HG23	2.31	0.59
1:A:211:VAL:HG11	1:A:216:TRP:CE2	2.38	0.59
1:A:222:ALA:N	1:B:368:ILE:HD12	2.18	0.59
1:A:280:LYS:HE3	1:A:383:LYS:CB	2.33	0.59
1:B:115:MET:HE1	1:B:204:ARG:CB	2.18	0.59
1:B:152:ILE:CD1	1:B:166:LEU:HA	2.28	0.59
1:B:195:VAL:CA	1:B:200:ILE:HD12	2.30	0.59
1:B:211:VAL:HG11	1:B:216:TRP:CE2	2.38	0.59
1:B:300:ARG:NH1	1:B:328:TYR:CE1	2.69	0.59
1:B:422:LEU:CG	1:C:221:LYS:HG2	2.30	0.59
1:C:243:GLN:HB3	1:C:284:PRO:HD2	1.84	0.59
1:A:28:ALA:HB3	1:A:348:TRP:CZ2	2.36	0.59
1:A:187:TRP:HB3	1:B:371:TYR:CA	2.31	0.59
1:A:193:SER:O	1:B:467:LYS:HG2	2.03	0.59
1:A:221:LYS:O	1:B:434:THR:CG2	2.51	0.59
1:A:459:PRO:O	1:A:460:ARG:HB2	2.01	0.59
1:B:11:ILE:CG2	1:B:326:ILE:HG12	2.32	0.59
1:C:11:ILE:CB	1:C:326:ILE:HG12	2.32	0.59
1:C:101:LYS:HE2	1:C:198:TYR:CD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:300:ARG:NH1	1:C:328:TYR:CE1	2.69	0.59
1:A:48:LYS:HA	1:A:48:LYS:HE3	1.85	0.59
1:A:200:ILE:CD1	1:B:467:LYS:CE	2.74	0.59
1:A:229:GLY:HA3	1:B:477:SER:O	1.71	0.59
1:A:236:PRO:HB3	1:A:278:THR:HG22	1.84	0.59
1:B:187:TRP:HZ3	1:B:190:TRP:CZ3	2.21	0.59
1:B:258:LEU:HG	1:B:262:PHE:CE2	2.37	0.59
1:B:280:LYS:CB	1:C:3:PRO:O	2.43	0.59
1:B:315:ALA:CA	1:B:318:ILE:HG23	2.31	0.59
1:A:101:LYS:HE2	1:A:198:TYR:CD2	2.38	0.58
1:A:143:GLN:NE2	1:B:108:HIS:CA	2.66	0.58
1:A:179:THR:OG1	1:B:52:ILE:CG1	2.49	0.58
1:B:13:PHE:O	1:B:329:ALA:HB2	2.01	0.58
1:C:28:ALA:CB	1:C:348:TRP:HZ2	2.16	0.58
1:C:187:TRP:HZ3	1:C:190:TRP:CZ3	2.21	0.58
1:A:28:ALA:CB	1:A:348:TRP:HZ2	2.16	0.58
1:A:145:TYR:CD2	1:B:9:GLN:HG3	2.38	0.58
1:A:182:VAL:H	1:B:57:PHE:HB3	1.65	0.58
1:A:194:LEU:O	1:B:403:GLN:OE1	2.21	0.58
1:A:197:ASN:C	1:B:467:LYS:NZ	2.57	0.58
1:A:221:LYS:CB	1:B:434:THR:CG2	2.79	0.58
1:B:468:LEU:HD22	1:B:473:ILE:HG21	1.83	0.58
1:C:137:PHE:CB	1:C:140:PHE:HB2	2.33	0.58
1:C:262:PHE:O	1:C:263:LYS:HG2	2.03	0.58
1:A:60:ILE:CD1	1:A:107:LEU:HD13	2.32	0.58
1:A:188:TYR:CD2	1:B:366:ASN:O	2.53	0.58
1:A:194:LEU:HA	1:B:403:GLN:CG	2.33	0.58
1:B:28:ALA:CB	1:B:348:TRP:HZ2	2.17	0.58
1:B:60:ILE:CD1	1:B:107:LEU:HD13	2.32	0.58
1:B:101:LYS:HE2	1:B:198:TYR:CD2	2.38	0.58
1:B:103:LEU:O	1:B:106:ALA:HB3	2.03	0.58
1:B:137:PHE:CB	1:B:140:PHE:HB2	2.32	0.58
1:B:238:TYR:HD2	1:C:376:ASP:HB2	1.61	0.58
1:B:308:ILE:CG2	1:B:312:LYS:HE3	2.30	0.58
1:B:429:ALA:HB1	1:C:181:ASP:O	2.03	0.58
1:C:208:VAL:CG2	1:C:246:MET:SD	2.88	0.58
1:A:15:LEU:O	1:A:16:THR:HG23	2.03	0.58
1:A:204:ARG:HG3	1:A:228:ILE:CG2	2.34	0.58
1:A:315:ALA:CA	1:A:318:ILE:HG23	2.31	0.58
1:B:48:LYS:HE3	1:B:48:LYS:HA	1.85	0.58
1:C:431:GLN:O	1:C:444:VAL:HG13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:VAL:CB	1:B:10:SER:O	2.52	0.58
1:A:188:TYR:CE1	1:B:365:ALA:HA	2.39	0.58
1:B:24:GLY:O	1:B:348:TRP:CD1	2.56	0.58
1:B:251:ASN:HB3	1:B:254:ILE:HG22	1.84	0.58
1:B:278:THR:CG2	1:C:381:THR:N	2.32	0.58
1:C:103:LEU:O	1:C:106:ALA:HB3	2.03	0.58
1:C:199:SER:C	1:C:200:ILE:HG13	2.16	0.58
1:C:236:PRO:HB3	1:C:278:THR:HG22	1.84	0.58
1:C:459:PRO:O	1:C:460:ARG:HB2	2.01	0.58
1:A:58:THR:CG2	1:A:112:MET:HA	2.33	0.58
1:A:159:THR:O	1:A:160:GLN:HG3	2.03	0.58
1:B:19:PHE:CD1	1:B:347:THR:HB	2.39	0.58
1:B:243:GLN:OE1	1:B:289:LEU:HD12	2.04	0.58
1:C:48:LYS:HA	1:C:48:LYS:HE3	1.85	0.58
1:A:24:GLY:O	1:A:348:TRP:CD1	2.56	0.58
1:A:243:GLN:HB3	1:A:284:PRO:HD2	1.84	0.58
1:A:300:ARG:NH1	1:A:328:TYR:CE1	2.69	0.58
1:A:364:SER:HB2	1:A:437:ILE:CG2	2.33	0.58
1:A:431:GLN:O	1:A:444:VAL:HG13	2.04	0.58
1:B:87:ILE:HD11	1:B:190:TRP:CZ2	2.37	0.58
1:B:293:VAL:HG11	1:B:331:GLN:NE2	2.19	0.58
1:C:24:GLY:O	1:C:348:TRP:CD1	2.56	0.58
1:A:19:PHE:CD1	1:A:347:THR:HB	2.39	0.58
1:A:137:PHE:CB	1:A:140:PHE:HB2	2.32	0.58
1:A:200:ILE:HG22	1:B:468:LEU:H	1.68	0.58
1:A:293:VAL:HG11	1:A:331:GLN:NE2	2.19	0.58
1:B:443:THR:HG22	1:B:451:PRO:HG3	1.86	0.58
1:C:293:VAL:HG11	1:C:331:GLN:NE2	2.19	0.58
1:C:319:ILE:CB	1:C:325:PRO:HB2	2.33	0.58
1:A:248:GLY:C	1:B:477:SER:CB	2.68	0.58
1:A:249:VAL:CA	1:B:477:SER:OG	2.51	0.58
1:B:383:LYS:NZ	1:C:5:ASP:C	2.61	0.58
1:B:385:PRO:CD	1:C:3:PRO:CD	2.76	0.58
1:C:58:THR:CG2	1:C:112:MET:HA	2.33	0.58
1:C:251:ASN:HB3	1:C:254:ILE:HG22	1.84	0.58
1:A:200:ILE:CG2	1:B:467:LYS:C	2.76	0.58
1:B:319:ILE:CB	1:B:325:PRO:HB2	2.33	0.58
1:B:364:SER:HB2	1:B:437:ILE:CG2	2.33	0.58
1:B:406:THR:HG23	1:C:221:LYS:O	2.01	0.58
1:B:431:GLN:O	1:B:444:VAL:HG13	2.03	0.58
1:C:243:GLN:OE1	1:C:289:LEU:HD12	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:364:SER:HB2	1:C:437:ILE:CG2	2.33	0.58
1:A:123:MET:SD	1:A:137:PHE:CD1	2.97	0.57
1:A:219:TYR:HD1	1:B:472:LYS:O	1.87	0.57
1:A:382:TYR:CD1	1:A:382:TYR:C	2.81	0.57
1:B:125:TYR:CE1	1:B:133:ASP:HB2	2.39	0.57
1:B:159:THR:O	1:B:160:GLN:HG3	2.03	0.57
1:B:204:ARG:HG3	1:B:228:ILE:CG2	2.34	0.57
1:B:327:ILE:HA	1:B:331:GLN:OE1	2.04	0.57
1:C:61:TRP:HZ2	1:C:204:ARG:NE	2.02	0.57
1:C:211:VAL:HG11	1:C:216:TRP:CE2	2.38	0.57
1:C:443:THR:HG22	1:C:451:PRO:HG3	1.86	0.57
1:A:184:LYS:HB2	1:B:367:ALA:CB	2.32	0.57
1:A:191:VAL:HG13	1:B:372:ALA:N	2.16	0.57
1:A:379:PHE:CZ	1:A:397:LYS:CE	2.87	0.57
1:A:418:TYR:CD1	1:A:454:MET:CE	2.87	0.57
1:A:443:THR:HG22	1:A:451:PRO:HG3	1.86	0.57
1:C:60:ILE:CD1	1:C:107:LEU:HD13	2.32	0.57
1:C:308:ILE:CG2	1:C:312:LYS:HE3	2.30	0.57
1:C:379:PHE:CZ	1:C:397:LYS:CE	2.87	0.57
1:A:118:VAL:HG22	1:B:375:LYS:HE2	1.85	0.57
1:A:194:LEU:HA	1:B:403:GLN:OE1	2.04	0.57
1:A:243:GLN:OE1	1:A:289:LEU:HD12	2.04	0.57
1:B:15:LEU:O	1:B:16:THR:HG23	2.03	0.57
1:B:68:GLN:C	1:B:85:THR:HG21	2.29	0.57
1:B:187:TRP:CE3	1:B:190:TRP:CZ3	2.92	0.57
1:B:382:TYR:CD1	1:B:382:TYR:C	2.81	0.57
1:B:444:VAL:CG2	1:C:185:ASN:OD1	2.52	0.57
1:C:123:MET:SD	1:C:137:PHE:CD1	2.97	0.57
1:C:280:LYS:HE3	1:C:383:LYS:CB	2.33	0.57
1:C:418:TYR:CD1	1:C:454:MET:CE	2.87	0.57
1:A:68:GLN:C	1:A:85:THR:HG21	2.29	0.57
1:A:103:LEU:O	1:A:106:ALA:HB3	2.03	0.57
1:A:182:VAL:HG21	1:B:58:THR:CB	2.34	0.57
1:A:204:ARG:O	1:B:471:SER:CB	2.53	0.57
1:A:208:VAL:CG2	1:A:246:MET:SD	2.88	0.57
1:A:246:MET:HB3	1:B:476:ASP:C	2.27	0.57
1:A:319:ILE:CB	1:A:325:PRO:HB2	2.33	0.57
1:B:57:PHE:CZ	1:B:327:ILE:HD13	2.40	0.57
1:B:190:TRP:CE3	1:B:191:VAL:HG12	2.40	0.57
1:B:238:TYR:C	1:B:238:TYR:CD1	2.83	0.57
1:A:57:PHE:CZ	1:A:327:ILE:HD13	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:163:ASP:C	1:B:53:GLN:OE1	2.47	0.57
1:A:200:ILE:CD1	1:B:467:LYS:HG3	2.34	0.57
1:B:277:ASN:HB2	1:C:286:SER:OG	2.05	0.57
1:B:385:PRO:CD	1:C:3:PRO:HD2	2.25	0.57
1:B:418:TYR:CD1	1:B:454:MET:CE	2.87	0.57
1:C:15:LEU:O	1:C:16:THR:HG23	2.03	0.57
1:C:19:PHE:CD1	1:C:347:THR:HB	2.39	0.57
1:C:279:VAL:HG13	1:C:280:LYS:H	1.69	0.57
1:C:382:TYR:CD1	1:C:382:TYR:C	2.81	0.57
1:A:215:PHE:CE2	1:B:367:ALA:CB	2.88	0.57
1:A:252:TYR:N	1:A:253:PRO:HD2	2.20	0.57
1:C:57:PHE:CZ	1:C:327:ILE:HD13	2.40	0.57
1:C:68:GLN:C	1:C:85:THR:HG21	2.29	0.57
1:C:136:VAL:O	1:C:136:VAL:HG12	2.05	0.57
1:C:204:ARG:HG3	1:C:228:ILE:CG2	2.34	0.57
1:C:252:TYR:N	1:C:253:PRO:HD2	2.20	0.57
1:A:136:VAL:O	1:A:136:VAL:HG12	2.05	0.57
1:A:182:VAL:HG13	1:B:56:GLY:O	2.04	0.57
1:A:190:TRP:HH2	1:B:375:LYS:NZ	2.02	0.57
1:A:192:GLY:C	1:B:464:PRO:HG2	2.23	0.57
1:A:200:ILE:CG2	1:B:468:LEU:N	2.68	0.57
1:A:218:GLY:CA	1:B:364:SER:C	2.62	0.57
1:A:238:TYR:CD1	1:A:238:TYR:C	2.83	0.57
1:A:327:ILE:HA	1:A:331:GLN:OE1	2.04	0.57
1:B:60:ILE:HD12	1:B:107:LEU:CD1	2.35	0.57
1:B:61:TRP:HZ2	1:B:204:ARG:NE	2.03	0.57
1:B:136:VAL:O	1:B:136:VAL:HG12	2.05	0.57
1:B:211:VAL:HB	1:B:216:TRP:CH2	2.40	0.57
1:B:213:LYS:HG2	1:C:375:LYS:HE2	1.87	0.57
1:C:159:THR:O	1:C:160:GLN:HG3	2.03	0.57
1:C:187:TRP:CE3	1:C:190:TRP:CZ3	2.92	0.57
1:C:238:TYR:CD1	1:C:238:TYR:C	2.83	0.57
1:A:184:LYS:CE	1:B:366:ASN:HD22	2.18	0.57
1:A:195:VAL:HG12	1:B:464:PRO:HG2	1.85	0.57
1:A:436:VAL:HG22	1:A:437:ILE:H	1.70	0.57
1:C:10:SER:HB3	1:C:57:PHE:CB	2.35	0.57
1:A:87:ILE:C	1:B:374:SER:O	2.47	0.57
1:A:125:TYR:CE1	1:A:133:ASP:HB2	2.39	0.57
1:A:165:TRP:CD1	1:B:110:ARG:CB	2.88	0.57
1:A:180:LYS:HZ1	1:B:10:SER:C	2.07	0.57
1:A:187:TRP:CE3	1:A:190:TRP:CZ3	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:187:TRP:CE3	1:B:374:SER:OG	2.53	0.57
1:A:190:TRP:CE3	1:A:191:VAL:HG12	2.40	0.57
1:A:222:ALA:HB3	1:B:473:ILE:HG12	1.86	0.57
1:B:386:TYR:CE1	1:C:288:LEU:HD12	2.39	0.57
1:B:407:ILE:HG12	1:B:461:VAL:HG13	1.87	0.57
1:B:445:GLY:CA	1:C:185:ASN:CG	2.60	0.57
1:C:125:TYR:CE1	1:C:133:ASP:HB2	2.39	0.57
1:C:216:TRP:HB2	1:C:217:PRO:HD3	1.86	0.57
1:A:279:VAL:HG13	1:A:280:LYS:H	1.69	0.57
1:B:216:TRP:HB2	1:B:217:PRO:HD3	1.86	0.57
1:C:190:TRP:CE3	1:C:191:VAL:HG12	2.40	0.57
1:C:211:VAL:HB	1:C:216:TRP:CH2	2.40	0.57
1:A:165:TRP:CD1	1:B:110:ARG:HB2	2.40	0.56
1:B:213:LYS:CE	1:C:375:LYS:HG2	2.34	0.56
1:B:238:TYR:CB	1:C:376:ASP:HB2	2.35	0.56
1:B:386:TYR:CG	1:C:288:LEU:HD11	2.35	0.56
1:A:69:LEU:CB	1:A:71:GLN:HE21	2.12	0.56
1:A:187:TRP:CE3	1:A:190:TRP:CE3	2.94	0.56
1:A:246:MET:HE1	1:B:476:ASP:OD1	2.04	0.56
1:B:383:LYS:HG2	1:C:113:TYR:HE1	1.66	0.56
1:B:401:GLY:N	1:C:193:SER:CB	2.68	0.56
1:C:263:LYS:HA	1:C:310:LEU:HD23	1.86	0.56
1:C:407:ILE:HG12	1:C:461:VAL:HG13	1.87	0.56
1:A:61:TRP:HZ2	1:A:204:ARG:NE	2.03	0.56
1:A:184:LYS:CE	1:B:362:ILE:HG22	2.17	0.56
1:A:190:TRP:CZ2	1:B:375:LYS:CG	2.88	0.56
1:A:204:ARG:NH1	1:A:230:GLU:HG2	2.21	0.56
1:A:205:ILE:HB	1:B:478:SER:HG	1.65	0.56
1:A:407:ILE:HG12	1:A:461:VAL:HG13	1.87	0.56
1:A:434:THR:C	1:A:435:GLU:O	2.47	0.56
1:B:182:VAL:HG13	1:B:183:VAL:HG12	1.87	0.56
1:B:263:LYS:HA	1:B:310:LEU:HD23	1.86	0.56
1:B:379:PHE:CZ	1:B:397:LYS:CE	2.87	0.56
1:B:396:ARG:HD3	1:C:221:LYS:C	2.31	0.56
1:B:400:ASP:HA	1:C:195:VAL:N	2.19	0.56
1:B:418:TYR:CE1	1:B:454:MET:HE2	2.41	0.56
1:B:445:GLY:CA	1:C:185:ASN:HB2	2.35	0.56
1:B:446:SER:CB	1:C:181:ASP:N	2.31	0.56
1:C:152:ILE:CD1	1:C:166:LEU:HA	2.28	0.56
1:C:187:TRP:CE3	1:C:190:TRP:CE3	2.94	0.56
1:C:327:ILE:HA	1:C:331:GLN:OE1	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:205:ILE:HG12	1:B:476:ASP:OD1	2.02	0.56
1:A:205:ILE:CD1	1:B:478:SER:CB	2.52	0.56
1:A:215:PHE:CE1	1:B:472:LYS:CB	2.88	0.56
1:A:216:TRP:HB2	1:A:217:PRO:HD3	1.86	0.56
1:B:2:THR:CB	1:B:3:PRO:HD2	2.18	0.56
1:C:418:TYR:CE1	1:C:454:MET:HE2	2.41	0.56
1:A:25:SER:HB3	1:A:28:ALA:HB2	1.87	0.56
1:A:60:ILE:HD12	1:A:107:LEU:CD1	2.35	0.56
1:A:218:GLY:HA3	1:B:364:SER:CA	2.33	0.56
1:A:301:PHE:C	1:A:301:PHE:CD2	2.83	0.56
1:A:379:PHE:CE1	1:A:397:LYS:CE	2.88	0.56
1:B:321:ASN:HA	1:B:384:ASN:ND2	2.21	0.56
1:C:180:LYS:NZ	1:C:182:VAL:HB	2.20	0.56
1:C:295:ASN:O	1:C:298:ASN:HB2	2.05	0.56
1:A:178:THR:HB	1:B:58:THR:HA	1.88	0.56
1:A:295:ASN:O	1:A:298:ASN:HB2	2.05	0.56
1:B:123:MET:SD	1:B:137:PHE:CD1	2.97	0.56
1:B:187:TRP:CE3	1:B:190:TRP:CE3	2.93	0.56
1:B:295:ASN:O	1:B:298:ASN:HB2	2.05	0.56
1:C:301:PHE:C	1:C:301:PHE:CD2	2.83	0.56
1:A:180:LYS:CE	1:B:11:ILE:CA	2.84	0.56
1:A:382:TYR:HE1	1:A:385:PRO:HD3	1.70	0.56
1:A:401:GLY:O	1:A:467:LYS:HE3	2.06	0.56
1:B:252:TYR:N	1:B:253:PRO:HD2	2.20	0.56
1:C:60:ILE:HD12	1:C:107:LEU:CD1	2.35	0.56
1:C:204:ARG:NH1	1:C:230:GLU:HG2	2.20	0.56
1:A:418:TYR:CE1	1:A:454:MET:HE2	2.41	0.56
1:B:99:ASP:O	1:B:102:ALA:HB3	2.05	0.56
1:B:185:ASN:O	1:B:188:TYR:HB2	2.06	0.56
1:B:216:TRP:CE3	1:B:216:TRP:CA	2.89	0.56
1:B:255:TYR:HD2	1:B:256:TYR:N	2.04	0.56
1:B:468:LEU:CD2	1:B:473:ILE:HG21	2.36	0.56
1:C:137:PHE:HZ	1:C:174:PRO:HG3	1.71	0.56
1:C:152:ILE:HD11	1:C:166:LEU:HG	1.87	0.56
1:C:401:GLY:O	1:C:467:LYS:HE3	2.06	0.56
1:A:10:SER:HB3	1:A:57:PHE:CB	2.35	0.56
1:A:187:TRP:CA	1:B:367:ALA:O	2.53	0.56
1:A:263:LYS:HA	1:A:310:LEU:HD23	1.86	0.56
1:B:209:LYS:CB	1:B:231:VAL:HG11	2.36	0.56
1:B:301:PHE:CD2	1:B:301:PHE:C	2.83	0.56
1:B:383:LYS:NZ	1:C:6:TRP:H	1.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:255:TYR:HD2	1:C:256:TYR:N	2.04	0.56
1:C:321:ASN:HA	1:C:384:ASN:ND2	2.21	0.56
1:C:379:PHE:CE1	1:C:397:LYS:CE	2.88	0.56
1:C:468:LEU:CD2	1:C:473:ILE:HG21	2.36	0.56
1:C:468:LEU:CD2	1:C:473:ILE:HG12	2.34	0.56
1:A:137:PHE:HZ	1:A:174:PRO:HG3	1.71	0.56
1:A:180:LYS:NZ	1:B:11:ILE:N	2.53	0.56
1:A:205:ILE:CB	1:B:478:SER:OG	2.39	0.56
1:A:209:LYS:N	1:A:231:VAL:HG11	2.21	0.56
1:A:216:TRP:CE3	1:A:216:TRP:CA	2.89	0.56
1:B:25:SER:HB3	1:B:28:ALA:HB2	1.87	0.56
1:B:386:TYR:CE1	1:C:288:LEU:CD1	2.89	0.56
1:C:209:LYS:N	1:C:231:VAL:HG11	2.21	0.56
1:C:436:VAL:HG22	1:C:437:ILE:H	1.70	0.56
1:A:211:VAL:HB	1:A:216:TRP:CH2	2.40	0.55
1:B:117:ASP:CG	1:B:204:ARG:NH1	2.65	0.55
1:B:137:PHE:HZ	1:B:174:PRO:HG3	1.71	0.55
1:B:193:SER:O	1:B:196:SER:HB3	2.07	0.55
1:B:424:GLY:O	1:C:218:GLY:HA2	2.05	0.55
1:B:428:THR:CA	1:C:186:GLU:C	2.77	0.55
1:C:73:CYS:HB3	1:C:126:ASP:OD1	2.06	0.55
1:C:209:LYS:CB	1:C:231:VAL:HG11	2.36	0.55
1:A:12:TYR:CE1	1:A:14:LEU:CD2	2.89	0.55
1:A:152:ILE:HD11	1:A:166:LEU:HG	1.87	0.55
1:B:152:ILE:HD11	1:B:166:LEU:HG	1.87	0.55
1:B:403:GLN:NE2	1:C:196:SER:OG	2.39	0.55
1:B:436:VAL:HG22	1:B:437:ILE:H	1.70	0.55
1:C:382:TYR:HE1	1:C:385:PRO:HD3	1.70	0.55
1:A:73:CYS:HB3	1:A:126:ASP:OD1	2.06	0.55
1:A:147:HIS:NE2	1:A:163:ASP:HB3	2.20	0.55
1:B:73:CYS:HB3	1:B:126:ASP:OD1	2.06	0.55
1:B:282:ASP:OD1	1:C:379:PHE:HD2	1.89	0.55
1:B:434:THR:C	1:B:435:GLU:O	2.47	0.55
1:C:216:TRP:CE3	1:C:216:TRP:CA	2.89	0.55
1:A:182:VAL:N	1:B:57:PHE:N	2.54	0.55
1:C:25:SER:HB3	1:C:28:ALA:HB2	1.87	0.55
1:A:75:TYR:HE1	1:A:170:THR:HG21	1.71	0.55
1:A:99:ASP:O	1:A:102:ALA:HB3	2.06	0.55
1:A:185:ASN:N	1:B:366:ASN:HB3	2.16	0.55
1:A:208:VAL:CB	1:B:478:SER:OG	2.05	0.55
1:A:221:LYS:NZ	1:B:436:VAL:O	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:147:HIS:NE2	1:B:163:ASP:HB3	2.20	0.55
1:B:209:LYS:N	1:B:231:VAL:HG11	2.21	0.55
1:B:382:TYR:HE1	1:B:385:PRO:HD3	1.70	0.55
1:A:222:ALA:HB2	1:B:368:ILE:HD12	1.83	0.55
1:A:255:TYR:CD2	1:A:256:TYR:N	2.75	0.55
1:A:255:TYR:HD2	1:A:256:TYR:N	2.04	0.55
1:C:182:VAL:HG13	1:C:183:VAL:HG12	1.87	0.55
1:A:184:LYS:CB	1:B:363:ALA:O	2.54	0.55
1:A:193:SER:HB3	1:B:376:ASP:OD1	2.07	0.55
1:A:212:GLN:OE1	1:B:53:GLN:O	2.24	0.55
1:A:215:PHE:CD1	1:A:215:PHE:C	2.85	0.55
1:C:434:THR:C	1:C:435:GLU:O	2.47	0.55
1:A:117:ASP:CG	1:A:204:ARG:NH1	2.65	0.55
1:A:208:VAL:N	1:B:472:LYS:HE2	2.19	0.55
1:A:225:VAL:N	1:B:465:THR:CA	2.67	0.55
1:A:249:VAL:N	1:B:477:SER:HB3	2.22	0.55
1:A:254:ILE:HD11	1:A:321:ASN:HD21	1.72	0.55
1:A:321:ASN:HA	1:A:384:ASN:ND2	2.21	0.55
1:A:468:LEU:CD2	1:A:473:ILE:HG21	2.36	0.55
1:B:230:GLU:O	1:B:250:LEU:HD23	2.07	0.55
1:B:294:GLU:HB3	1:B:300:ARG:HA	1.89	0.55
1:B:327:ILE:HG13	1:B:331:GLN:CD	2.32	0.55
1:B:401:GLY:O	1:B:467:LYS:HE3	2.06	0.55
1:C:254:ILE:HD11	1:C:321:ASN:HD21	1.72	0.55
1:A:180:LYS:HZ3	1:B:57:PHE:CB	1.91	0.55
1:A:182:VAL:HG13	1:A:183:VAL:HG12	1.88	0.55
1:A:185:ASN:ND2	1:B:319:ILE:CG1	2.70	0.55
1:A:385:PRO:HG2	1:A:396:ARG:H	1.72	0.55
1:B:137:PHE:O	1:B:139:PRO:HD3	2.07	0.55
1:C:138:LYS:HA	1:C:140:PHE:H	1.72	0.55
1:A:209:LYS:CB	1:A:231:VAL:HG11	2.36	0.55
1:A:308:ILE:CG2	1:A:312:LYS:HE3	2.30	0.55
1:B:199:SER:C	1:B:200:ILE:HG13	2.16	0.55
1:B:254:ILE:HD11	1:B:321:ASN:HD21	1.72	0.55
1:B:385:PRO:HG2	1:B:396:ARG:H	1.72	0.55
1:B:418:TYR:CD1	1:B:454:MET:HE3	2.42	0.55
1:B:431:GLN:HA	1:B:431:GLN:NE2	2.18	0.55
1:B:468:LEU:CD2	1:B:473:ILE:HG12	2.34	0.55
1:B:204:ARG:NH1	1:B:230:GLU:HG2	2.21	0.54
1:B:255:TYR:CD1	1:B:292:PHE:CD2	2.96	0.54
1:B:428:THR:HB	1:C:186:GLU:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:147:HIS:NE2	1:C:163:ASP:HB3	2.20	0.54
1:C:215:PHE:CD1	1:C:215:PHE:C	2.85	0.54
1:A:138:LYS:HA	1:A:140:PHE:H	1.72	0.54
1:A:165:TRP:CE2	1:B:109:GLU:C	2.80	0.54
1:A:230:GLU:O	1:A:250:LEU:HD23	2.07	0.54
1:A:280:LYS:HE3	1:A:383:LYS:C	2.31	0.54
1:A:294:GLU:HB3	1:A:300:ARG:HA	1.89	0.54
1:B:215:PHE:CD1	1:B:215:PHE:C	2.85	0.54
1:B:236:PRO:HG3	1:C:381:THR:OG1	2.07	0.54
1:B:255:TYR:CD2	1:B:256:TYR:N	2.75	0.54
1:B:385:PRO:HA	1:C:3:PRO:HB3	1.88	0.54
1:B:426:SER:N	1:C:219:TYR:O	2.23	0.54
1:C:115:MET:HE1	1:C:204:ARG:CB	2.18	0.54
1:C:117:ASP:CG	1:C:204:ARG:NH1	2.65	0.54
1:A:180:LYS:CA	1:B:55:MET:HG3	2.21	0.54
1:A:180:LYS:HZ2	1:B:57:PHE:CB	2.20	0.54
1:B:205:ILE:O	1:B:230:GLU:HG3	2.07	0.54
1:C:57:PHE:HZ	1:C:327:ILE:HD13	1.73	0.54
1:C:185:ASN:CA	1:C:188:TYR:CD2	2.79	0.54
1:C:327:ILE:HG13	1:C:331:GLN:CD	2.32	0.54
1:C:418:TYR:CD1	1:C:454:MET:HE3	2.43	0.54
1:A:205:ILE:O	1:A:230:GLU:HG3	2.07	0.54
1:A:418:TYR:CD1	1:A:454:MET:HE3	2.42	0.54
1:B:379:PHE:CE1	1:B:397:LYS:CE	2.89	0.54
1:B:424:GLY:C	1:C:218:GLY:C	2.76	0.54
1:C:32:THR:CG2	1:C:342:ALA:HA	2.28	0.54
1:C:99:ASP:O	1:C:102:ALA:HB3	2.06	0.54
1:C:420:LEU:CD2	1:C:452:VAL:CG2	2.83	0.54
1:A:115:MET:HE1	1:A:204:ARG:CB	2.18	0.54
1:A:115:MET:CE	1:B:470:GLY:CA	2.84	0.54
1:A:137:PHE:O	1:A:139:PRO:HD3	2.07	0.54
1:A:144:ASP:OD1	1:B:6:TRP:CH2	2.59	0.54
1:A:205:ILE:HD12	1:B:478:SER:OG	2.06	0.54
1:A:250:LEU:CD1	1:A:292:PHE:CE1	2.91	0.54
1:B:51:TYR:HH	1:B:332:GLU:HG3	1.71	0.54
1:B:137:PHE:CG	1:B:146:PHE:CZ	2.95	0.54
1:B:180:LYS:NZ	1:B:182:VAL:HB	2.21	0.54
1:B:238:TYR:O	1:C:377:THR:N	2.40	0.54
1:B:399:THR:CG2	1:C:196:SER:CA	2.84	0.54
1:C:255:TYR:CD2	1:C:256:TYR:N	2.75	0.54
1:C:294:GLU:HB3	1:C:300:ARG:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:313:ASN:ND2	1:C:410:ASN:O	2.40	0.54
1:A:197:ASN:C	1:B:467:LYS:HZ1	2.02	0.54
1:A:255:TYR:CD1	1:A:292:PHE:CD2	2.96	0.54
1:B:12:TYR:CE1	1:B:14:LEU:CD2	2.89	0.54
1:B:138:LYS:HA	1:B:140:PHE:H	1.72	0.54
1:B:313:ASN:ND2	1:B:410:ASN:O	2.40	0.54
1:C:216:TRP:HB2	1:C:217:PRO:CD	2.38	0.54
1:C:250:LEU:CD1	1:C:292:PHE:CE1	2.91	0.54
1:C:280:LYS:HE3	1:C:383:LYS:C	2.31	0.54
1:A:182:VAL:HG21	1:B:58:THR:CA	2.13	0.54
1:A:313:ASN:ND2	1:A:410:ASN:O	2.40	0.54
1:A:327:ILE:HG13	1:A:331:GLN:CD	2.32	0.54
1:C:214:ASP:O	1:C:217:PRO:HG2	2.07	0.54
1:C:230:GLU:O	1:C:250:LEU:HD23	2.07	0.54
1:C:255:TYR:CD1	1:C:292:PHE:CD2	2.96	0.54
1:C:385:PRO:HG2	1:C:396:ARG:H	1.72	0.54
1:B:148:PRO:O	1:B:165:TRP:CD1	2.61	0.54
1:B:250:LEU:CD1	1:B:292:PHE:CE1	2.91	0.54
1:B:385:PRO:HB3	1:C:226:TYR:CA	2.37	0.54
1:B:387:ILE:HG13	1:B:424:GLY:HA3	1.89	0.54
1:C:148:PRO:O	1:C:165:TRP:CD1	2.61	0.54
1:A:165:TRP:CE2	1:B:110:ARG:CA	2.75	0.54
1:A:180:LYS:NZ	1:B:11:ILE:C	2.66	0.54
1:A:200:ILE:CD1	1:B:467:LYS:HD2	2.36	0.54
1:A:221:LYS:HG3	1:B:434:THR:HG23	1.90	0.54
1:A:221:LYS:HB2	1:B:436:VAL:HA	1.65	0.54
1:A:420:LEU:CD2	1:A:452:VAL:CG2	2.83	0.54
1:B:16:THR:CG2	1:B:42:TRP:CD1	2.91	0.54
1:B:147:HIS:CE1	1:B:163:ASP:CB	2.90	0.54
1:B:213:LYS:NZ	1:C:375:LYS:HG2	2.23	0.54
1:B:400:ASP:CB	1:C:193:SER:C	2.67	0.54
1:C:137:PHE:CG	1:C:146:PHE:CZ	2.95	0.54
1:C:205:ILE:O	1:C:230:GLU:HG3	2.07	0.54
1:A:57:PHE:HZ	1:A:327:ILE:HD13	1.73	0.54
1:A:137:PHE:CG	1:A:146:PHE:CZ	2.95	0.54
1:A:148:PRO:O	1:A:165:TRP:CD1	2.61	0.54
1:A:184:LYS:CB	1:B:367:ALA:HB2	2.38	0.54
1:A:216:TRP:HB2	1:A:217:PRO:CD	2.38	0.54
1:A:428:THR:CG2	1:A:431:GLN:HG2	2.39	0.54
1:B:45:ILE:O	1:B:49:LEU:HD13	2.08	0.54
1:B:214:ASP:O	1:B:217:PRO:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:238:TYR:CD2	1:C:376:ASP:CB	2.73	0.54
1:C:75:TYR:HE1	1:C:170:THR:HG21	1.71	0.54
1:A:75:TYR:CE1	1:A:170:THR:CG2	2.91	0.53
1:A:180:LYS:CE	1:B:12:TYR:HB2	2.37	0.53
1:A:188:TYR:CE1	1:B:365:ALA:CA	2.70	0.53
1:B:137:PHE:O	1:B:140:PHE:CD1	2.62	0.53
1:B:395:MET:SD	1:B:407:ILE:HD12	2.49	0.53
1:C:137:PHE:O	1:C:140:PHE:CD1	2.61	0.53
1:C:147:HIS:CE1	1:C:163:ASP:CB	2.90	0.53
1:A:468:LEU:CD2	1:A:473:ILE:HG12	2.34	0.53
1:B:29:THR:O	1:B:30:CYS:HB2	2.08	0.53
1:B:75:TYR:HE1	1:B:170:THR:HG21	1.71	0.53
1:B:190:TRP:CZ3	1:B:191:VAL:HG12	2.43	0.53
1:A:57:PHE:CZ	1:A:362:ILE:CG2	2.91	0.53
1:A:177:ASP:CG	1:B:53:GLN:O	2.52	0.53
1:A:395:MET:SD	1:A:407:ILE:HD12	2.49	0.53
1:B:32:THR:CG2	1:B:342:ALA:HA	2.28	0.53
1:B:213:LYS:HG2	1:C:375:LYS:CE	2.39	0.53
1:B:278:THR:CG2	1:C:381:THR:HG1	2.17	0.53
1:C:137:PHE:O	1:C:139:PRO:HD3	2.07	0.53
1:C:215:PHE:CE1	1:C:216:TRP:CZ3	2.96	0.53
1:C:395:MET:SD	1:C:407:ILE:HD12	2.49	0.53
1:A:143:GLN:CG	1:B:108:HIS:CE1	2.91	0.53
1:A:184:LYS:HG2	1:B:56:GLY:HA3	0.70	0.53
1:A:193:SER:O	1:A:196:SER:HB3	2.07	0.53
1:A:215:PHE:CE1	1:A:216:TRP:CZ3	2.96	0.53
1:A:215:PHE:HA	1:B:364:SER:HA	1.90	0.53
1:A:243:GLN:HB3	1:A:284:PRO:CD	2.39	0.53
1:B:137:PHE:O	1:B:140:PHE:HD1	1.92	0.53
1:B:382:TYR:CE1	1:B:396:ARG:O	2.62	0.53
1:C:188:TYR:CE1	1:C:218:GLY:CA	2.85	0.53
1:C:250:LEU:CD1	1:C:292:PHE:HE1	2.22	0.53
1:C:254:ILE:HD11	1:C:321:ASN:ND2	2.23	0.53
1:A:45:ILE:HG21	1:A:103:LEU:CD1	2.38	0.53
1:A:145:TYR:OH	1:B:6:TRP:HA	2.09	0.53
1:A:194:LEU:CD1	1:B:375:LYS:HG3	2.38	0.53
1:A:254:ILE:HD11	1:A:321:ASN:ND2	2.23	0.53
1:B:91:ASN:OD1	1:B:94:TYR:HD2	1.92	0.53
1:C:66:THR:CG2	1:C:86:ASP:HB3	2.39	0.53
1:C:348:TRP:CD1	1:C:348:TRP:O	2.62	0.53
1:A:91:ASN:OD1	1:A:94:TYR:HD2	1.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:320:LEU:HD22	1:A:407:ILE:HD13	1.90	0.53
1:B:21:ARG:CG	1:B:21:ARG:HH21	2.22	0.53
1:B:216:TRP:HB2	1:B:217:PRO:CD	2.38	0.53
1:C:16:THR:CG2	1:C:42:TRP:CD1	2.91	0.53
1:C:157:ASP:OD2	1:C:159:THR:HB	2.08	0.53
1:C:386:TYR:O	1:C:388:LYS:N	2.42	0.53
1:A:191:VAL:HG21	1:B:473:ILE:CG1	2.37	0.53
1:A:218:GLY:N	1:B:437:ILE:HA	2.24	0.53
1:A:382:TYR:CE1	1:A:396:ARG:O	2.62	0.53
1:A:387:ILE:HG13	1:A:424:GLY:HA3	1.89	0.53
1:B:57:PHE:HZ	1:B:327:ILE:HD13	1.73	0.53
1:B:66:THR:CG2	1:B:86:ASP:HB3	2.39	0.53
1:B:332:GLU:HA	1:B:358:LEU:CB	2.39	0.53
1:C:21:ARG:HH21	1:C:21:ARG:CG	2.22	0.53
1:C:91:ASN:C	1:C:92:GLU:CG	2.82	0.53
1:C:243:GLN:HB3	1:C:284:PRO:CD	2.39	0.53
1:C:428:THR:CG2	1:C:431:GLN:HG2	2.39	0.53
1:A:45:ILE:O	1:A:49:LEU:HD13	2.08	0.53
1:A:315:ALA:HA	1:A:318:ILE:CG2	2.36	0.53
1:A:332:GLU:HA	1:A:358:LEU:CB	2.39	0.53
1:A:386:TYR:O	1:A:388:LYS:N	2.42	0.53
1:B:11:ILE:HD13	1:B:326:ILE:HG13	1.89	0.53
1:B:122:HIS:CB	1:B:173:LEU:HB3	2.39	0.53
1:B:237:ALA:HB2	1:C:379:PHE:CB	2.38	0.53
1:A:16:THR:CG2	1:A:42:TRP:CD1	2.91	0.53
1:A:29:THR:O	1:A:30:CYS:HB2	2.08	0.53
1:A:66:THR:CG2	1:A:86:ASP:HB3	2.39	0.53
1:A:190:TRP:CD2	1:B:374:SER:N	2.64	0.53
1:A:218:GLY:C	1:B:473:ILE:O	2.47	0.53
1:A:273:TYR:CE1	1:A:389:ASP:HB3	2.44	0.53
1:B:157:ASP:OD2	1:B:159:THR:HB	2.08	0.53
1:B:191:VAL:HG11	1:B:219:TYR:CE2	2.44	0.53
1:B:215:PHE:CE1	1:B:216:TRP:CZ3	2.96	0.53
1:C:57:PHE:CZ	1:C:362:ILE:CG2	2.91	0.53
1:C:147:HIS:CD2	1:C:177:ASP:O	2.56	0.53
1:A:6:TRP:CZ2	1:A:113:TYR:CD1	2.98	0.53
1:A:250:LEU:CD1	1:A:292:PHE:HE1	2.22	0.53
1:B:300:ARG:HH11	1:B:328:TYR:HE1	1.53	0.53
1:B:399:THR:CB	1:C:196:SER:HA	2.38	0.53
1:C:91:ASN:OD1	1:C:94:TYR:HD2	1.92	0.53
1:C:286:SER:C	1:C:287:THR:HG23	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:HIS:CB	1:A:173:LEU:HB3	2.39	0.52
1:A:137:PHE:O	1:A:140:PHE:CD1	2.62	0.52
1:A:279:VAL:O	1:A:283:CYS:HB2	2.09	0.52
1:A:348:TRP:CD1	1:A:348:TRP:O	2.62	0.52
1:B:241:PRO:HA	1:C:373:ILE:HG22	1.91	0.52
1:B:428:THR:CG2	1:B:431:GLN:HG2	2.39	0.52
1:C:122:HIS:CB	1:C:173:LEU:HB3	2.39	0.52
1:C:190:TRP:CZ3	1:C:191:VAL:HG12	2.43	0.52
1:C:191:VAL:HG11	1:C:219:TYR:CE2	2.44	0.52
1:C:279:VAL:O	1:C:283:CYS:HB2	2.09	0.52
1:C:382:TYR:CE1	1:C:396:ARG:O	2.62	0.52
1:C:387:ILE:HG13	1:C:424:GLY:HA3	1.89	0.52
1:A:91:ASN:C	1:A:92:GLU:CG	2.82	0.52
1:A:163:ASP:O	1:B:53:GLN:OE1	2.27	0.52
1:A:220:ASN:HA	1:B:473:ILE:HG22	1.86	0.52
1:A:221:LYS:HG3	1:B:434:THR:CG2	2.39	0.52
1:A:382:TYR:CE1	1:A:385:PRO:HD3	2.45	0.52
1:B:75:TYR:CE1	1:B:170:THR:CG2	2.91	0.52
1:B:91:ASN:OD1	1:B:94:TYR:CD2	2.63	0.52
1:B:217:PRO:HD3	1:B:245:VAL:HG22	1.91	0.52
1:B:243:GLN:HB3	1:B:284:PRO:CD	2.39	0.52
1:B:254:ILE:HD11	1:B:321:ASN:ND2	2.23	0.52
1:B:382:TYR:C	1:C:2:THR:CG2	2.77	0.52
1:C:6:TRP:CZ2	1:C:113:TYR:CD1	2.98	0.52
1:C:45:ILE:O	1:C:49:LEU:HD13	2.08	0.52
1:C:137:PHE:O	1:C:140:PHE:HD1	1.92	0.52
1:C:332:GLU:HA	1:C:358:LEU:CB	2.39	0.52
1:C:405:VAL:HB	1:C:463:TYR:CD2	2.44	0.52
1:A:21:ARG:HH21	1:A:21:ARG:CG	2.22	0.52
1:A:123:MET:HB2	1:A:174:PRO:HG2	1.91	0.52
1:A:137:PHE:O	1:A:140:PHE:HD1	1.92	0.52
1:A:144:ASP:O	1:B:58:THR:CG2	2.42	0.52
1:A:157:ASP:OD2	1:A:159:THR:HB	2.08	0.52
1:A:197:ASN:HD21	1:C:196:SER:CB	2.18	0.52
1:A:394:ALA:HA	1:A:408:LEU:HA	1.92	0.52
1:B:45:ILE:HG21	1:B:103:LEU:CD1	2.38	0.52
1:B:57:PHE:CZ	1:B:362:ILE:CG2	2.91	0.52
1:B:279:VAL:O	1:B:283:CYS:HB2	2.09	0.52
1:B:348:TRP:CD1	1:B:348:TRP:O	2.62	0.52
1:C:18:ARG:CZ	1:C:79:TYR:CD2	2.92	0.52
1:C:45:ILE:HG21	1:C:103:LEU:CD1	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:HIS:CE1	1:A:163:ASP:CB	2.90	0.52
1:A:187:TRP:CH2	1:B:374:SER:OG	2.61	0.52
1:A:188:TYR:CE1	1:A:218:GLY:CA	2.85	0.52
1:A:190:TRP:CZ3	1:A:191:VAL:HG12	2.43	0.52
1:A:208:VAL:C	1:A:216:TRP:HZ2	2.17	0.52
1:A:286:SER:C	1:A:287:THR:HG23	2.33	0.52
1:B:274:ASN:HD21	1:C:285:ASP:H	1.58	0.52
1:B:286:SER:C	1:B:287:THR:HG23	2.33	0.52
1:B:405:VAL:HB	1:B:463:TYR:CD2	2.45	0.52
1:C:208:VAL:C	1:C:216:TRP:HZ2	2.17	0.52
1:A:91:ASN:OD1	1:A:94:TYR:CD2	2.63	0.52
1:A:178:THR:HA	1:B:112:MET:CE	2.40	0.52
1:A:468:LEU:HD23	1:A:473:ILE:HD13	1.91	0.52
1:B:101:LYS:HE2	1:B:198:TYR:CE2	2.45	0.52
1:B:299:PRO:HB2	1:B:303:SER:HB2	1.92	0.52
1:B:308:ILE:O	1:B:311:ALA:HB3	2.10	0.52
1:C:185:ASN:O	1:C:188:TYR:HB2	2.06	0.52
1:C:193:SER:O	1:C:196:SER:HB3	2.06	0.52
1:C:458:LEU:CD1	1:C:460:ARG:HH22	2.23	0.52
1:A:188:TYR:N	1:B:369:ARG:C	2.68	0.52
1:A:319:ILE:CA	1:A:325:PRO:HB2	2.39	0.52
1:B:13:PHE:HB3	1:B:328:TYR:HA	1.92	0.52
1:B:184:LYS:C	1:B:188:TYR:CD2	2.88	0.52
1:B:250:LEU:CD1	1:B:292:PHE:HE1	2.21	0.52
1:B:279:VAL:HG21	1:B:289:LEU:HD21	1.91	0.52
1:B:426:SER:CA	1:C:188:TYR:HD1	2.20	0.52
1:C:184:LYS:C	1:C:188:TYR:CD2	2.88	0.52
1:C:262:PHE:CZ	1:C:314:VAL:HB	2.45	0.52
1:C:394:ALA:HA	1:C:408:LEU:HA	1.92	0.52
1:A:205:ILE:HG21	1:B:472:LYS:HG3	0.54	0.52
1:A:279:VAL:HG21	1:A:289:LEU:HD21	1.91	0.52
1:A:299:PRO:HB2	1:A:303:SER:HB2	1.92	0.52
1:B:238:TYR:CD2	1:C:403:GLN:CD	2.84	0.52
1:B:281:SER:HB3	1:C:8:SER:H	0.69	0.52
1:C:12:TYR:CD1	1:C:12:TYR:C	2.88	0.52
1:C:29:THR:O	1:C:30:CYS:HB2	2.07	0.52
1:C:91:ASN:OD1	1:C:94:TYR:CD2	2.63	0.52
1:C:101:LYS:HE2	1:C:198:TYR:CE2	2.45	0.52
1:C:320:LEU:HD22	1:C:407:ILE:HD13	1.90	0.52
1:C:404:ILE:N	1:C:404:ILE:CB	2.73	0.52
1:A:32:THR:CG2	1:A:342:ALA:HA	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:LYS:HE2	1:A:198:TYR:CE2	2.45	0.52
1:A:123:MET:CA	1:A:174:PRO:HG2	2.40	0.52
1:A:185:ASN:HA	1:B:365:ALA:O	2.04	0.52
1:A:216:TRP:HB3	1:A:246:MET:HG2	1.91	0.52
1:A:465:THR:HA	1:A:468:LEU:HD11	1.92	0.52
1:B:12:TYR:CD1	1:B:12:TYR:C	2.88	0.52
1:B:123:MET:CA	1:B:174:PRO:HG2	2.40	0.52
1:B:286:SER:HB3	1:B:288:LEU:HG	1.92	0.52
1:C:13:PHE:HB3	1:C:328:TYR:HA	1.92	0.52
1:C:299:PRO:HB2	1:C:303:SER:HB2	1.92	0.52
1:A:18:ARG:CZ	1:A:79:TYR:CD2	2.92	0.52
1:A:129:GLY:C	1:B:109:GLU:OE2	2.52	0.52
1:B:6:TRP:CZ2	1:B:113:TYR:CD1	2.97	0.52
1:B:458:LEU:CD1	1:B:460:ARG:HH22	2.23	0.52
1:C:279:VAL:HG21	1:C:289:LEU:HD21	1.91	0.52
1:C:468:LEU:HD23	1:C:473:ILE:HD13	1.91	0.52
1:A:182:VAL:HG21	1:B:58:THR:HB	1.92	0.52
1:A:431:GLN:HA	1:A:431:GLN:NE2	2.18	0.52
1:A:458:LEU:CD1	1:A:460:ARG:HH22	2.23	0.52
1:B:18:ARG:CZ	1:B:79:TYR:CD2	2.92	0.52
1:B:83:TRP:NE1	1:B:173:LEU:CD2	2.68	0.52
1:B:87:ILE:CG2	1:B:123:MET:HE1	2.40	0.52
1:B:187:TRP:HE3	1:B:190:TRP:CE3	2.28	0.52
1:B:382:TYR:CE1	1:B:385:PRO:HD3	2.44	0.52
1:C:11:ILE:HD13	1:C:326:ILE:HG13	1.89	0.52
1:C:308:ILE:O	1:C:311:ALA:HB3	2.10	0.52
1:A:87:ILE:HG21	1:A:123:MET:HE1	1.92	0.51
1:A:185:ASN:HD22	1:B:319:ILE:HB	1.75	0.51
1:A:262:PHE:CZ	1:A:314:VAL:HB	2.45	0.51
1:A:405:VAL:HB	1:A:463:TYR:CD2	2.45	0.51
1:B:87:ILE:CG2	1:B:139:PRO:HG3	2.40	0.51
1:B:262:PHE:CZ	1:B:314:VAL:HB	2.45	0.51
1:B:386:TYR:O	1:B:388:LYS:N	2.42	0.51
1:B:387:ILE:HD11	1:B:424:GLY:C	2.36	0.51
1:B:468:LEU:HD23	1:B:473:ILE:HD13	1.91	0.51
1:C:12:TYR:CE1	1:C:14:LEU:CD2	2.89	0.51
1:C:123:MET:CA	1:C:174:PRO:HG2	2.40	0.51
1:C:200:ILE:O	1:C:225:VAL:HG11	2.10	0.51
1:A:13:PHE:HB3	1:A:328:TYR:HA	1.92	0.51
1:A:152:ILE:CD1	1:A:166:LEU:HA	2.28	0.51
1:A:216:TRP:HB2	1:A:245:VAL:CG2	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:308:ILE:O	1:A:311:ALA:HB3	2.10	0.51
1:A:382:TYR:CD2	1:A:398:GLY:O	2.64	0.51
1:A:387:ILE:HD11	1:A:424:GLY:C	2.35	0.51
1:B:68:GLN:HB2	1:B:69:LEU:HD23	1.92	0.51
1:C:300:ARG:HH11	1:C:328:TYR:HE1	1.53	0.51
1:C:380:VAL:CG1	1:C:381:THR:H	2.22	0.51
1:C:382:TYR:CD2	1:C:398:GLY:O	2.64	0.51
1:C:427:TYR:CE1	1:C:433:LEU:HD11	2.45	0.51
1:A:49:LEU:O	1:A:52:ILE:HG12	2.11	0.51
1:A:189:ASP:HB2	1:B:369:ARG:CG	2.41	0.51
1:A:286:SER:HB3	1:A:288:LEU:HG	1.92	0.51
1:B:394:ALA:HA	1:B:408:LEU:HA	1.92	0.51
1:B:418:TYR:HD1	1:B:454:MET:CE	2.22	0.51
1:C:315:ALA:HA	1:C:318:ILE:CG2	2.36	0.51
1:C:382:TYR:CE1	1:C:385:PRO:HD3	2.44	0.51
1:C:473:ILE:HG23	1:C:474:CYS:N	2.25	0.51
1:A:12:TYR:C	1:A:12:TYR:CD1	2.88	0.51
1:A:87:ILE:CG2	1:A:123:MET:HE1	2.40	0.51
1:A:200:ILE:O	1:A:225:VAL:HG11	2.10	0.51
1:C:387:ILE:HD11	1:C:424:GLY:C	2.35	0.51
1:A:2:THR:CB	1:A:3:PRO:HD2	2.18	0.51
1:A:238:TYR:O	1:A:241:PRO:HG2	2.11	0.51
1:A:292:PHE:C	1:A:293:VAL:HG12	2.36	0.51
1:B:315:ALA:HA	1:B:318:ILE:CG2	2.36	0.51
1:B:317:PHE:CD1	1:B:317:PHE:C	2.89	0.51
1:B:427:TYR:CE1	1:B:433:LEU:HD11	2.46	0.51
1:B:443:THR:O	1:B:451:PRO:HD2	2.11	0.51
1:C:250:LEU:HD12	1:C:292:PHE:CE1	2.46	0.51
1:C:280:LYS:O	1:C:281:SER:HB2	2.11	0.51
1:A:190:TRP:CD2	1:B:374:SER:CA	2.83	0.51
1:A:217:PRO:HA	1:B:474:CYS:O	2.10	0.51
1:A:404:ILE:N	1:A:404:ILE:CB	2.73	0.51
1:B:7:ARG:NE	1:B:286:SER:O	2.44	0.51
1:B:123:MET:CE	1:B:140:PHE:HE1	2.24	0.51
1:B:208:VAL:C	1:B:216:TRP:HZ2	2.17	0.51
1:B:250:LEU:HD12	1:B:292:PHE:CE1	2.45	0.51
1:C:87:ILE:CG2	1:C:123:MET:HE1	2.40	0.51
1:C:238:TYR:O	1:C:241:PRO:HG2	2.11	0.51
1:A:123:MET:CE	1:A:140:PHE:HE1	2.24	0.51
1:A:177:ASP:HB3	1:B:53:GLN:HG2	1.90	0.51
1:B:134:TYR:CE1	1:B:143:GLN:CB	2.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:238:TYR:HD2	1:C:403:GLN:NE2	2.07	0.51
1:B:420:LEU:CD2	1:B:452:VAL:CG2	2.83	0.51
1:B:446:SER:HG	1:C:181:ASP:CG	1.96	0.51
1:C:243:GLN:HG2	1:C:284:PRO:O	2.11	0.51
1:A:182:VAL:CG2	1:B:58:THR:CB	2.89	0.51
1:A:278:THR:O	1:A:282:ASP:HB2	2.11	0.51
1:B:14:LEU:HD22	1:B:19:PHE:CE2	2.46	0.51
1:B:216:TRP:HB3	1:B:246:MET:HG2	1.91	0.51
1:B:280:LYS:O	1:C:6:TRP:CA	2.54	0.51
1:B:280:LYS:O	1:C:7:ARG:CB	2.59	0.51
1:B:280:LYS:HZ1	1:C:226:TYR:HB2	1.70	0.51
1:B:320:LEU:HD22	1:B:407:ILE:HD13	1.90	0.51
1:C:134:TYR:CE1	1:C:143:GLN:CB	2.94	0.51
1:C:217:PRO:HD3	1:C:245:VAL:HG22	1.91	0.51
1:C:225:VAL:O	1:C:225:VAL:CG1	2.59	0.51
1:A:68:GLN:HB2	1:A:69:LEU:HD23	1.92	0.51
1:A:181:ASP:OD1	1:B:319:ILE:HD13	2.11	0.51
1:A:380:VAL:CG1	1:A:381:THR:H	2.22	0.51
1:A:418:TYR:HD1	1:A:454:MET:CE	2.23	0.51
1:B:200:ILE:O	1:B:225:VAL:HG11	2.10	0.51
1:B:406:THR:HG21	1:C:221:LYS:CB	2.41	0.51
1:B:449:ASN:CB	1:C:184:LYS:HZ2	2.13	0.51
1:C:14:LEU:HD22	1:C:19:PHE:CE2	2.46	0.51
1:C:101:LYS:HE3	1:C:198:TYR:CZ	2.46	0.51
1:C:200:ILE:CG2	1:C:203:LEU:HD11	2.38	0.51
1:C:216:TRP:HB3	1:C:246:MET:HG2	1.91	0.51
1:C:418:TYR:HD1	1:C:454:MET:CE	2.23	0.51
1:C:443:THR:O	1:C:451:PRO:HD2	2.11	0.51
1:C:465:THR:HA	1:C:468:LEU:HD11	1.92	0.51
1:A:187:TRP:HE3	1:A:190:TRP:CE3	2.28	0.51
1:A:250:LEU:HD12	1:A:292:PHE:CE1	2.46	0.51
1:B:137:PHE:CZ	1:B:174:PRO:HG3	2.46	0.51
1:B:188:TYR:HE1	1:B:218:GLY:C	2.18	0.51
1:B:292:PHE:C	1:B:293:VAL:HG12	2.36	0.51
1:C:68:GLN:HB2	1:C:69:LEU:HD23	1.92	0.51
1:C:188:TYR:HE1	1:C:218:GLY:C	2.18	0.51
1:C:216:TRP:HB2	1:C:245:VAL:CG2	2.29	0.51
1:C:431:GLN:HA	1:C:431:GLN:NE2	2.18	0.51
1:A:7:ARG:NE	1:A:286:SER:O	2.44	0.50
1:A:101:LYS:HE3	1:A:198:TYR:CZ	2.46	0.50
1:A:134:TYR:CE1	1:A:143:GLN:CB	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:280:LYS:O	1:A:281:SER:HB2	2.11	0.50
1:A:321:ASN:CG	1:A:322:ASP:N	2.69	0.50
1:A:427:TYR:CE1	1:A:433:LEU:HD11	2.45	0.50
1:B:255:TYR:CD1	1:B:292:PHE:CE2	2.99	0.50
1:C:187:TRP:HE3	1:C:190:TRP:CE3	2.29	0.50
1:C:292:PHE:C	1:C:293:VAL:HG12	2.36	0.50
1:C:295:ASN:CB	1:C:298:ASN:HB2	2.37	0.50
1:C:317:PHE:CD1	1:C:317:PHE:C	2.89	0.50
1:A:148:PRO:HB3	1:B:49:LEU:CD2	2.41	0.50
1:A:188:TYR:HE1	1:A:218:GLY:C	2.18	0.50
1:B:192:GLY:HA2	1:B:223:ALA:HB2	1.94	0.50
1:B:243:GLN:HG2	1:B:284:PRO:O	2.11	0.50
1:B:295:ASN:CB	1:B:298:ASN:HB2	2.36	0.50
1:B:359:TYR:HA	1:B:362:ILE:HD12	1.93	0.50
1:B:382:TYR:CD2	1:B:398:GLY:O	2.64	0.50
1:C:25:SER:C	1:C:348:TRP:HE1	2.20	0.50
1:C:208:VAL:HG23	1:C:216:TRP:CD2	2.46	0.50
1:C:278:THR:O	1:C:282:ASP:HB2	2.11	0.50
1:A:145:TYR:N	1:B:9:GLN:OE1	2.44	0.50
1:A:229:GLY:N	1:B:477:SER:C	2.66	0.50
1:A:246:MET:HB2	1:B:476:ASP:C	2.26	0.50
1:A:443:THR:O	1:A:451:PRO:HD2	2.11	0.50
1:B:188:TYR:CE1	1:B:218:GLY:CA	2.85	0.50
1:B:237:ALA:HB3	1:C:399:THR:OG1	2.11	0.50
1:C:49:LEU:O	1:C:52:ILE:HG12	2.11	0.50
1:C:119:VAL:HG23	1:C:206:ASP:CB	2.31	0.50
1:C:188:TYR:CE1	1:C:218:GLY:C	2.89	0.50
1:A:11:ILE:HD13	1:A:326:ILE:HG13	1.89	0.50
1:A:185:ASN:N	1:B:366:ASN:CB	2.36	0.50
1:A:200:ILE:HD12	1:B:467:LYS:HZ2	1.75	0.50
1:A:317:PHE:CD1	1:A:317:PHE:C	2.89	0.50
1:A:347:THR:CG2	1:A:348:TRP:N	2.73	0.50
1:B:209:LYS:H	1:B:231:VAL:HG11	1.77	0.50
1:B:243:GLN:HE22	1:B:289:LEU:HD13	1.77	0.50
1:B:278:THR:O	1:B:282:ASP:HB2	2.10	0.50
1:B:400:ASP:C	1:C:192:GLY:O	2.55	0.50
1:C:201:ASP:O	1:C:225:VAL:HG13	2.10	0.50
1:C:243:GLN:HE22	1:C:289:LEU:HD13	1.77	0.50
1:A:45:ILE:CG2	1:A:49:LEU:CD1	2.80	0.50
1:A:57:PHE:CZ	1:A:362:ILE:HG23	2.47	0.50
1:A:183:VAL:HG22	1:A:184:LYS:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:188:TYR:CZ	1:B:367:ALA:N	2.78	0.50
1:A:201:ASP:O	1:A:225:VAL:HG13	2.10	0.50
1:A:255:TYR:CD1	1:A:292:PHE:CE2	2.99	0.50
1:B:87:ILE:HG21	1:B:123:MET:HE1	1.92	0.50
1:B:385:PRO:CD	1:B:396:ARG:O	2.60	0.50
1:B:385:PRO:CB	1:C:3:PRO:HD3	2.34	0.50
1:C:87:ILE:CG2	1:C:139:PRO:HG3	2.40	0.50
1:C:87:ILE:HG21	1:C:123:MET:HE1	1.93	0.50
1:C:321:ASN:CG	1:C:322:ASP:N	2.69	0.50
1:A:14:LEU:HD22	1:A:19:PHE:CE2	2.46	0.50
1:A:262:PHE:CZ	1:A:314:VAL:HA	2.47	0.50
1:A:364:SER:HB2	1:A:437:ILE:HG22	1.93	0.50
1:A:436:VAL:HG22	1:A:437:ILE:N	2.26	0.50
1:B:49:LEU:O	1:B:52:ILE:HG12	2.11	0.50
1:B:57:PHE:CZ	1:B:362:ILE:HG23	2.47	0.50
1:B:225:VAL:O	1:B:225:VAL:CG1	2.59	0.50
1:B:273:TYR:CE1	1:B:389:ASP:HB3	2.44	0.50
1:B:392:THR:CG2	1:B:410:ASN:HB2	2.42	0.50
1:A:147:HIS:O	1:B:110:ARG:N	2.30	0.50
1:A:180:LYS:HE3	1:B:12:TYR:HA	1.91	0.50
1:A:194:LEU:O	1:B:403:GLN:CG	2.59	0.50
1:A:373:ILE:HG22	1:A:377:THR:HG22	1.92	0.50
1:B:201:ASP:O	1:B:225:VAL:HG13	2.10	0.50
1:B:242:TYR:CA	1:B:245:VAL:HG12	2.42	0.50
1:B:243:GLN:NE2	1:B:284:PRO:O	2.42	0.50
1:B:262:PHE:CZ	1:B:314:VAL:HA	2.47	0.50
1:B:436:VAL:HG22	1:B:437:ILE:N	2.26	0.50
1:C:42:TRP:CD2	1:C:94:TYR:CD1	3.00	0.50
1:C:57:PHE:CZ	1:C:362:ILE:HG23	2.47	0.50
1:C:300:ARG:HG2	1:C:335:TYR:O	2.12	0.50
1:C:347:THR:CG2	1:C:348:TRP:N	2.73	0.50
1:B:188:TYR:CE1	1:B:218:GLY:C	2.89	0.50
1:B:238:TYR:O	1:B:241:PRO:HG2	2.11	0.50
1:B:277:ASN:HB2	1:C:286:SER:O	2.00	0.50
1:B:300:ARG:HG2	1:B:335:TYR:O	2.12	0.50
1:B:321:ASN:CG	1:B:322:ASP:N	2.69	0.50
1:C:273:TYR:CE1	1:C:389:ASP:HB3	2.44	0.50
1:C:307:ASP:HB2	1:C:413:ALA:CB	2.40	0.50
1:C:364:SER:HB2	1:C:437:ILE:HG22	1.93	0.50
1:C:369:ARG:HG2	1:C:379:PHE:CZ	2.47	0.50
1:A:18:ARG:HD3	1:A:344:ARG:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:25:SER:C	1:A:348:TRP:HE1	2.20	0.50
1:A:188:TYR:CE1	1:A:218:GLY:C	2.89	0.50
1:A:194:LEU:O	1:B:403:GLN:HG3	2.11	0.50
1:A:243:GLN:HE22	1:A:289:LEU:HD13	1.76	0.50
1:A:262:PHE:CE2	1:A:314:VAL:HB	2.47	0.50
1:A:300:ARG:HG2	1:A:335:TYR:O	2.12	0.50
1:B:101:LYS:HE3	1:B:198:TYR:CZ	2.46	0.50
1:B:158:GLN:HA	1:B:161:VAL:CG1	2.42	0.50
1:B:208:VAL:HG23	1:B:216:TRP:CD2	2.46	0.50
1:B:426:SER:C	1:C:188:TYR:HA	2.37	0.50
1:C:7:ARG:NE	1:C:286:SER:O	2.44	0.50
1:C:13:PHE:CD2	1:C:328:TYR:CD2	2.99	0.50
1:C:209:LYS:H	1:C:231:VAL:HG11	1.77	0.50
1:C:255:TYR:CD1	1:C:292:PHE:CE2	2.99	0.50
1:C:385:PRO:CD	1:C:396:ARG:O	2.60	0.50
1:C:392:THR:CG2	1:C:410:ASN:HB2	2.42	0.50
1:A:123:MET:N	1:A:174:PRO:HG2	2.27	0.49
1:A:177:ASP:HB3	1:B:53:GLN:HA	1.94	0.49
1:A:184:LYS:HB2	1:B:367:ALA:HB2	1.94	0.49
1:A:189:ASP:CB	1:B:369:ARG:O	2.60	0.49
1:A:209:LYS:H	1:A:231:VAL:HG11	1.77	0.49
1:A:300:ARG:HH11	1:A:328:TYR:HE1	1.53	0.49
1:A:432:GLN:HG3	1:A:465:THR:HG21	1.90	0.49
1:B:42:TRP:CD2	1:B:94:TYR:CD1	3.00	0.49
1:B:134:TYR:CE1	1:B:143:GLN:HB2	2.47	0.49
1:B:420:LEU:CD2	1:B:452:VAL:CG1	2.82	0.49
1:C:158:GLN:HA	1:C:161:VAL:CG1	2.42	0.49
1:C:183:VAL:HG22	1:C:184:LYS:N	2.27	0.49
1:C:192:GLY:HA2	1:C:223:ALA:HB2	1.94	0.49
1:A:34:ASP:O	1:A:36:LYS:HG3	2.12	0.49
1:A:188:TYR:C	1:B:368:ILE:HG12	2.37	0.49
1:A:192:GLY:HA2	1:A:223:ALA:HB2	1.94	0.49
1:A:295:ASN:CB	1:A:298:ASN:HB2	2.36	0.49
1:A:327:ILE:HG13	1:A:331:GLN:OE1	2.12	0.49
1:A:369:ARG:HG2	1:A:379:PHE:CZ	2.47	0.49
1:A:392:THR:CG2	1:A:410:ASN:HB2	2.42	0.49
1:B:34:ASP:O	1:B:36:LYS:HG3	2.12	0.49
1:B:123:MET:N	1:B:174:PRO:HG2	2.27	0.49
1:B:347:THR:CG2	1:B:348:TRP:N	2.73	0.49
1:B:428:THR:HA	1:C:188:TYR:N	2.28	0.49
1:C:137:PHE:CZ	1:C:174:PRO:HG3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:243:GLN:NE2	1:C:284:PRO:O	2.42	0.49
1:C:432:GLN:HG3	1:C:465:THR:HG21	1.90	0.49
1:A:88:TYR:CZ	1:B:373:ILE:HA	2.45	0.49
1:A:137:PHE:CZ	1:A:174:PRO:HG3	2.47	0.49
1:A:158:GLN:HA	1:A:161:VAL:CG1	2.42	0.49
1:A:197:ASN:OD1	1:C:193:SER:C	2.50	0.49
1:A:243:GLN:HG2	1:A:284:PRO:O	2.11	0.49
1:A:243:GLN:NE2	1:A:284:PRO:O	2.42	0.49
1:A:263:LYS:CA	1:A:310:LEU:HD23	2.42	0.49
1:B:25:SER:C	1:B:348:TRP:HE1	2.20	0.49
1:B:241:PRO:CA	1:C:374:SER:CA	2.59	0.49
1:B:369:ARG:HG2	1:B:379:PHE:CZ	2.47	0.49
1:C:262:PHE:CZ	1:C:314:VAL:HA	2.47	0.49
1:C:436:VAL:HG22	1:C:437:ILE:N	2.26	0.49
1:A:19:PHE:HD1	1:A:347:THR:HB	1.77	0.49
1:A:42:TRP:CD2	1:A:94:TYR:CD1	3.00	0.49
1:A:87:ILE:CG2	1:A:139:PRO:HG3	2.40	0.49
1:A:186:GLU:HB2	1:B:369:ARG:HH12	1.77	0.49
1:A:227:CYS:SG	1:B:473:ILE:HG22	2.53	0.49
1:A:240:CYS:CB	1:A:241:PRO:CD	2.89	0.49
1:A:246:MET:CB	1:B:476:ASP:C	2.69	0.49
1:B:13:PHE:CD2	1:B:328:TYR:CD2	2.99	0.49
1:B:183:VAL:HG22	1:B:184:LYS:N	2.27	0.49
1:B:280:LYS:CE	1:B:383:LYS:HB3	2.04	0.49
1:C:463:TYR:OH	1:C:463:TYR:CE2	2.51	0.49
1:A:214:ASP:O	1:A:217:PRO:HG2	2.07	0.49
1:B:19:PHE:HD1	1:B:347:THR:HB	1.77	0.49
1:B:352:TYR:C	1:B:354:THR:N	2.71	0.49
1:B:383:LYS:HE2	1:C:5:ASP:CB	2.39	0.49
1:C:123:MET:N	1:C:174:PRO:HG2	2.27	0.49
1:C:161:VAL:O	1:C:210:HIS:HB3	2.12	0.49
1:C:263:LYS:CA	1:C:310:LEU:HD23	2.42	0.49
1:C:327:ILE:HG13	1:C:331:GLN:OE1	2.12	0.49
1:C:359:TYR:HA	1:C:362:ILE:HD12	1.93	0.49
1:A:79:TYR:HE2	1:A:344:ARG:CD	2.25	0.49
1:A:79:TYR:HE2	1:A:344:ARG:CG	2.26	0.49
1:A:197:ASN:OD1	1:B:400:ASP:OD1	2.30	0.49
1:A:225:VAL:O	1:A:225:VAL:CG1	2.59	0.49
1:A:236:PRO:CB	1:A:278:THR:HG22	2.43	0.49
1:A:259:LEU:HD21	1:A:304:TYR:OH	2.12	0.49
1:A:385:PRO:CD	1:A:396:ARG:O	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:TYR:HE2	1:B:344:ARG:CD	2.25	0.49
1:B:119:VAL:HG23	1:B:206:ASP:CB	2.31	0.49
1:B:123:MET:HB2	1:B:174:PRO:HG2	1.91	0.49
1:B:263:LYS:CA	1:B:310:LEU:HD23	2.42	0.49
1:B:364:SER:HB2	1:B:437:ILE:HG22	1.93	0.49
1:B:384:ASN:CA	1:C:2:THR:HG22	2.05	0.49
1:B:385:PRO:HG2	1:B:396:ARG:N	2.28	0.49
1:C:123:MET:HB2	1:C:174:PRO:HG2	1.91	0.49
1:C:180:LYS:O	1:C:182:VAL:HG12	2.13	0.49
1:C:236:PRO:CB	1:C:278:THR:HG22	2.43	0.49
1:C:262:PHE:CE2	1:C:314:VAL:HB	2.47	0.49
1:C:273:TYR:HB2	1:C:389:ASP:OD1	2.13	0.49
1:A:188:TYR:C	1:B:368:ILE:CG1	2.86	0.49
1:A:219:TYR:CZ	1:B:371:TYR:CD2	2.71	0.49
1:A:434:THR:HG21	1:A:474:CYS:SG	2.53	0.49
1:B:45:ILE:CG2	1:B:49:LEU:CD1	2.80	0.49
1:B:262:PHE:CE2	1:B:314:VAL:HB	2.47	0.49
1:B:327:ILE:HG13	1:B:331:GLN:OE1	2.12	0.49
1:C:13:PHE:CE2	1:C:296:HIS:CD2	3.01	0.49
1:C:83:TRP:NE1	1:C:173:LEU:CD2	2.68	0.49
1:C:134:TYR:CE1	1:C:143:GLN:HB2	2.47	0.49
1:C:242:TYR:CA	1:C:245:VAL:HG12	2.42	0.49
1:C:418:TYR:CD1	1:C:454:MET:HE2	2.48	0.49
1:A:11:ILE:HB	1:A:326:ILE:CA	2.41	0.49
1:A:147:HIS:HA	1:B:111:GLY:O	2.12	0.49
1:A:180:LYS:CE	1:B:12:TYR:N	2.55	0.49
1:A:204:ARG:HG2	1:A:228:ILE:O	2.12	0.49
1:A:221:LYS:CG	1:B:434:THR:CG2	2.91	0.49
1:C:204:ARG:NH1	1:C:230:GLU:HB3	2.28	0.49
1:A:101:LYS:CE	1:A:198:TYR:CE2	2.96	0.49
1:A:180:LYS:NZ	1:B:57:PHE:HB2	2.11	0.49
1:A:204:ARG:NH1	1:A:230:GLU:HB3	2.28	0.49
1:A:246:MET:N	1:B:474:CYS:O	2.46	0.49
1:A:394:ALA:HA	1:A:407:ILE:O	2.13	0.49
1:B:147:HIS:CD2	1:B:177:ASP:O	2.56	0.49
1:B:307:ASP:HB2	1:B:413:ALA:CB	2.40	0.49
1:C:79:TYR:HE2	1:C:344:ARG:CG	2.25	0.49
1:A:13:PHE:CD2	1:A:328:TYR:CD2	2.99	0.49
1:A:13:PHE:CE2	1:A:296:HIS:CD2	3.01	0.49
1:A:161:VAL:O	1:A:210:HIS:HB3	2.12	0.49
1:A:187:TRP:CD1	1:B:370:ASN:CB	2.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:203:LEU:HB3	1:B:471:SER:H	1.77	0.49
1:A:205:ILE:HA	1:B:471:SER:HA	1.94	0.49
1:A:242:TYR:CA	1:A:245:VAL:HG12	2.42	0.49
1:A:273:TYR:HB2	1:A:389:ASP:OD1	2.13	0.49
1:A:307:ASP:HB2	1:A:413:ALA:CB	2.40	0.49
1:B:154:ASN:O	1:B:157:ASP:HB3	2.13	0.49
1:B:161:VAL:O	1:B:210:HIS:HB3	2.12	0.49
1:B:236:PRO:CG	1:C:378:GLY:C	2.71	0.49
1:C:434:THR:HG21	1:C:474:CYS:SG	2.53	0.49
1:A:216:TRP:N	1:A:217:PRO:HD2	2.28	0.48
1:A:359:TYR:HA	1:A:362:ILE:HD12	1.93	0.48
1:B:91:ASN:C	1:B:92:GLU:CG	2.82	0.48
1:B:180:LYS:O	1:B:182:VAL:HG12	2.13	0.48
1:B:185:ASN:CA	1:B:188:TYR:CD2	2.79	0.48
1:B:204:ARG:CZ	1:B:230:GLU:HB2	2.43	0.48
1:B:273:TYR:HB2	1:B:389:ASP:OD1	2.13	0.48
1:B:436:VAL:HG13	1:B:437:ILE:CD1	2.43	0.48
1:C:123:MET:CE	1:C:140:PHE:HE1	2.24	0.48
1:A:133:ASP:O	1:A:134:TYR:HB2	2.13	0.48
1:A:193:SER:O	1:A:196:SER:CB	2.61	0.48
1:A:194:LEU:HD13	1:B:375:LYS:HG3	1.93	0.48
1:A:204:ARG:CZ	1:A:230:GLU:HB2	2.43	0.48
1:A:246:MET:CE	1:B:476:ASP:OD1	2.61	0.48
1:A:382:TYR:OH	1:A:385:PRO:HG3	2.13	0.48
1:A:418:TYR:CD1	1:A:454:MET:HE2	2.48	0.48
1:B:204:ARG:NH1	1:B:230:GLU:HB3	2.28	0.48
1:B:321:ASN:OD1	1:B:384:ASN:ND2	2.47	0.48
1:B:434:THR:HG21	1:B:474:CYS:SG	2.53	0.48
1:C:21:ARG:HH21	1:C:21:ARG:HG2	1.78	0.48
1:C:75:TYR:CE1	1:C:170:THR:CG2	2.91	0.48
1:C:154:ASN:O	1:C:157:ASP:HB3	2.13	0.48
1:C:193:SER:O	1:C:196:SER:CB	2.61	0.48
1:C:240:CYS:CB	1:C:241:PRO:CD	2.89	0.48
1:C:259:LEU:HD21	1:C:304:TYR:OH	2.12	0.48
1:C:394:ALA:HA	1:C:407:ILE:O	2.13	0.48
1:A:21:ARG:HH21	1:A:21:ARG:HG2	1.78	0.48
1:A:147:HIS:HB2	1:A:175:ASP:O	2.13	0.48
1:A:208:VAL:HG23	1:A:216:TRP:CD2	2.46	0.48
1:A:255:TYR:CG	1:A:292:PHE:CE2	3.00	0.48
1:A:436:VAL:HG13	1:A:437:ILE:CD1	2.43	0.48
1:B:392:THR:HG21	1:B:410:ASN:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:394:ALA:HA	1:B:407:ILE:O	2.13	0.48
1:B:399:THR:CG2	1:C:196:SER:HA	2.44	0.48
1:B:418:TYR:CD1	1:B:454:MET:HE2	2.48	0.48
1:C:11:ILE:HB	1:C:326:ILE:CA	2.41	0.48
1:C:147:HIS:HB2	1:C:175:ASP:O	2.12	0.48
1:C:346:ALA:O	1:C:349:LEU:HB2	2.14	0.48
1:A:119:VAL:HG23	1:A:206:ASP:CB	2.31	0.48
1:A:165:TRP:CE2	1:B:110:ARG:N	2.80	0.48
1:A:221:LYS:O	1:B:463:TYR:HB3	2.13	0.48
1:A:473:ILE:HG23	1:A:474:CYS:N	2.25	0.48
1:B:134:TYR:CD1	1:B:143:GLN:HB3	2.49	0.48
1:B:147:HIS:HB2	1:B:175:ASP:O	2.13	0.48
1:B:429:ALA:HB1	1:C:182:VAL:C	2.32	0.48
1:C:79:TYR:HE2	1:C:344:ARG:CD	2.25	0.48
1:C:101:LYS:CE	1:C:198:TYR:CE2	2.96	0.48
1:C:134:TYR:CD1	1:C:143:GLN:HB3	2.49	0.48
1:C:455:ALA:HB3	1:C:458:LEU:HD12	1.95	0.48
1:A:189:ASP:HB3	1:B:369:ARG:O	2.13	0.48
1:A:225:VAL:HG11	1:B:466:GLU:HA	1.95	0.48
1:A:256:TYR:N	1:A:257:PRO:HD2	2.28	0.48
1:B:241:PRO:HB2	1:C:376:ASP:H	1.79	0.48
1:B:256:TYR:N	1:B:257:PRO:HD2	2.28	0.48
1:B:404:ILE:N	1:B:404:ILE:CB	2.73	0.48
1:B:428:THR:OG1	1:C:186:GLU:O	2.31	0.48
1:B:455:ALA:HB3	1:B:458:LEU:HD12	1.95	0.48
1:C:18:ARG:HD3	1:C:344:ARG:HB3	1.95	0.48
1:C:204:ARG:CG	1:C:204:ARG:HH11	2.20	0.48
1:C:385:PRO:HG2	1:C:396:ARG:N	2.28	0.48
1:A:187:TRP:C	1:B:369:ARG:C	2.82	0.48
1:A:385:PRO:HG2	1:A:396:ARG:N	2.28	0.48
1:A:392:THR:HG21	1:A:410:ASN:HB2	1.94	0.48
1:B:18:ARG:HD3	1:B:344:ARG:HB3	1.94	0.48
1:B:101:LYS:CE	1:B:198:TYR:CE2	2.96	0.48
1:B:193:SER:O	1:B:196:SER:CB	2.61	0.48
1:B:237:ALA:O	1:C:376:ASP:OD1	2.30	0.48
1:B:259:LEU:HD21	1:B:304:TYR:OH	2.12	0.48
1:B:278:THR:HG23	1:C:380:VAL:C	2.22	0.48
1:B:319:ILE:CA	1:B:325:PRO:HB2	2.39	0.48
1:B:346:ALA:O	1:B:349:LEU:HB2	2.14	0.48
1:A:122:HIS:HB2	1:A:173:LEU:HB3	1.96	0.48
1:A:134:TYR:CE1	1:A:143:GLN:HB2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:180:LYS:CB	1:B:55:MET:CG	2.92	0.48
1:A:204:ARG:CB	1:B:470:GLY:CA	2.23	0.48
1:A:346:ALA:O	1:A:349:LEU:HB2	2.14	0.48
1:B:216:TRP:N	1:B:217:PRO:HD2	2.28	0.48
1:B:428:THR:HB	1:C:190:TRP:H	1.78	0.48
1:C:204:ARG:CZ	1:C:230:GLU:HB2	2.43	0.48
1:C:216:TRP:N	1:C:217:PRO:HD2	2.28	0.48
1:C:255:TYR:CG	1:C:292:PHE:CE2	3.00	0.48
1:C:321:ASN:OD1	1:C:384:ASN:ND2	2.46	0.48
1:C:436:VAL:HG13	1:C:437:ILE:CD1	2.43	0.48
1:A:35:GLN:HG3	1:A:76:GLY:HA3	1.95	0.48
1:A:42:TRP:CE3	1:A:94:TYR:CG	3.01	0.48
1:A:180:LYS:HZ2	1:B:57:PHE:HB2	1.77	0.48
1:A:294:GLU:OE1	1:A:331:GLN:HA	2.14	0.48
1:B:133:ASP:O	1:B:134:TYR:HB2	2.13	0.48
1:B:190:TRP:CE3	1:B:191:VAL:HG13	2.49	0.48
1:C:42:TRP:CE3	1:C:94:TYR:CG	3.01	0.48
1:C:392:THR:HG21	1:C:410:ASN:HB2	1.94	0.48
1:A:180:LYS:HG3	1:B:12:TYR:CB	2.43	0.48
1:A:180:LYS:HE2	1:B:57:PHE:HB3	1.91	0.48
1:A:194:LEU:CG	1:B:375:LYS:CG	2.90	0.48
1:A:196:SER:CB	1:B:403:GLN:HG3	2.33	0.48
1:B:11:ILE:HD11	1:B:324:LEU:C	2.39	0.48
1:B:13:PHE:CE2	1:B:296:HIS:CD2	3.01	0.48
1:B:79:TYR:HE2	1:B:344:ARG:CG	2.26	0.48
1:B:121:ASN:HD22	1:B:121:ASN:C	2.22	0.48
1:B:122:HIS:CE1	1:B:173:LEU:HD22	2.48	0.48
1:B:182:VAL:HG13	1:B:183:VAL:N	2.18	0.48
1:B:205:ILE:HD13	1:B:205:ILE:HG21	1.47	0.48
1:B:238:TYR:CD2	1:C:403:GLN:OE1	2.67	0.48
1:B:364:SER:HB2	1:B:437:ILE:HG23	1.96	0.48
1:C:34:ASP:O	1:C:36:LYS:HG3	2.13	0.48
1:C:121:ASN:C	1:C:121:ASN:HD22	2.22	0.48
1:C:122:HIS:HB2	1:C:173:LEU:HB3	1.96	0.48
1:C:433:LEU:O	1:C:442:VAL:HB	2.14	0.48
1:A:134:TYR:CD1	1:A:143:GLN:HB3	2.49	0.48
1:A:227:CYS:CA	1:B:476:ASP:HA	2.43	0.48
1:A:385:PRO:HG2	1:A:396:ARG:CA	2.44	0.48
1:B:13:PHE:CD2	1:B:61:TRP:CZ3	3.02	0.48
1:B:255:TYR:CD2	1:B:255:TYR:C	2.92	0.48
1:B:353:PRO:C	1:B:355:ASP:N	2.71	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:383:LYS:CG	1:C:113:TYR:CE1	2.95	0.48
1:B:463:TYR:OH	1:B:463:TYR:CE2	2.51	0.48
1:C:133:ASP:O	1:C:134:TYR:HB2	2.13	0.48
1:C:272:LEU:O	1:C:275:MET:HB3	2.14	0.48
1:C:308:ILE:H	1:C:308:ILE:HG13	1.19	0.48
1:C:348:TRP:C	1:C:350:SER:N	2.72	0.48
1:C:385:PRO:HG2	1:C:396:ARG:CA	2.44	0.48
1:A:88:TYR:CD2	1:A:139:PRO:HB3	2.49	0.47
1:A:215:PHE:CE1	1:B:472:LYS:HB3	2.49	0.47
1:A:321:ASN:OD1	1:A:384:ASN:ND2	2.47	0.47
1:B:42:TRP:CE3	1:B:94:TYR:CG	3.01	0.47
1:B:204:ARG:HG2	1:B:228:ILE:O	2.12	0.47
1:B:250:LEU:HD12	1:B:292:PHE:HE1	1.79	0.47
1:B:274:ASN:CG	1:C:286:SER:H	2.21	0.47
1:C:35:GLN:HG3	1:C:76:GLY:HA3	1.95	0.47
1:C:45:ILE:CG2	1:C:49:LEU:CD1	2.80	0.47
1:C:382:TYR:OH	1:C:385:PRO:HG3	2.13	0.47
1:A:249:VAL:CA	1:B:477:SER:CB	2.92	0.47
1:A:272:LEU:O	1:A:275:MET:HB3	2.14	0.47
1:A:433:LEU:O	1:A:442:VAL:HB	2.14	0.47
1:B:122:HIS:HB2	1:B:173:LEU:HB3	1.96	0.47
1:B:237:ALA:HA	1:C:379:PHE:H	1.77	0.47
1:B:348:TRP:C	1:B:350:SER:N	2.72	0.47
1:B:447:ASP:OD1	1:C:184:LYS:HD2	2.15	0.47
1:C:11:ILE:HD11	1:C:324:LEU:C	2.39	0.47
1:C:88:TYR:CD2	1:C:139:PRO:HB3	2.49	0.47
1:C:122:HIS:CE1	1:C:173:LEU:HD22	2.48	0.47
1:C:353:PRO:C	1:C:355:ASP:N	2.71	0.47
1:C:373:ILE:HG22	1:C:377:THR:HG22	1.92	0.47
1:A:121:ASN:C	1:A:121:ASN:HD22	2.22	0.47
1:A:122:HIS:CE1	1:A:173:LEU:HD22	2.48	0.47
1:A:250:LEU:HD12	1:A:292:PHE:HE1	1.80	0.47
1:A:455:ALA:HB3	1:A:458:LEU:HD12	1.95	0.47
1:B:35:GLN:HG3	1:B:76:GLY:HA3	1.95	0.47
1:B:195:VAL:HG23	1:B:200:ILE:O	2.14	0.47
1:C:13:PHE:CD2	1:C:61:TRP:CZ3	3.02	0.47
1:C:346:ALA:C	1:C:348:TRP:N	2.71	0.47
1:A:43:GLN:NE2	1:A:99:ASP:OD1	2.46	0.47
1:A:120:ALA:HA	1:A:187:TRP:CH2	2.49	0.47
1:A:232:LEU:HD23	1:A:232:LEU:H	1.78	0.47
1:A:348:TRP:C	1:A:350:SER:N	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:120:ALA:HA	1:B:187:TRP:CH2	2.49	0.47
1:B:205:ILE:HD12	1:B:208:VAL:HG21	1.96	0.47
1:C:190:TRP:CE3	1:C:191:VAL:HG13	2.49	0.47
1:C:204:ARG:HG2	1:C:228:ILE:O	2.12	0.47
1:A:13:PHE:CD2	1:A:61:TRP:CZ3	3.02	0.47
1:A:154:ASN:O	1:A:157:ASP:HB3	2.13	0.47
1:A:180:LYS:CE	1:B:57:PHE:HB2	2.22	0.47
1:B:232:LEU:N	1:B:232:LEU:HD23	2.30	0.47
1:C:49:LEU:HD23	1:C:110:ARG:CD	2.41	0.47
1:C:250:LEU:HD12	1:C:292:PHE:HE1	1.80	0.47
1:C:294:GLU:OE1	1:C:331:GLN:HA	2.14	0.47
1:A:190:TRP:CZ3	1:B:374:SER:HB2	2.43	0.47
1:A:346:ALA:C	1:A:348:TRP:N	2.71	0.47
1:A:364:SER:HB2	1:A:437:ILE:HG23	1.96	0.47
1:B:11:ILE:HB	1:B:326:ILE:CA	2.40	0.47
1:B:185:ASN:N	1:B:188:TYR:CD2	2.83	0.47
1:B:187:TRP:HZ3	1:B:190:TRP:CH2	2.33	0.47
1:B:241:PRO:HB2	1:C:376:ASP:N	2.29	0.47
1:B:255:TYR:CG	1:B:292:PHE:CE2	3.00	0.47
1:B:433:LEU:O	1:B:442:VAL:HB	2.14	0.47
1:C:120:ALA:HA	1:C:187:TRP:CH2	2.49	0.47
1:C:187:TRP:HZ3	1:C:190:TRP:CH2	2.33	0.47
1:C:232:LEU:N	1:C:232:LEU:HD23	2.30	0.47
1:C:256:TYR:N	1:C:257:PRO:HD2	2.28	0.47
1:A:56:GLY:HA3	1:A:366:ASN:CB	2.42	0.47
1:A:83:TRP:NE1	1:A:173:LEU:CD2	2.68	0.47
1:A:178:THR:CB	1:B:57:PHE:O	2.54	0.47
1:A:180:LYS:H	1:B:55:MET:CA	2.25	0.47
1:A:181:ASP:N	1:B:362:ILE:CG2	2.77	0.47
1:A:187:TRP:HB3	1:B:371:TYR:HB2	1.96	0.47
1:A:249:VAL:CA	1:B:477:SER:HB3	2.45	0.47
1:A:404:ILE:N	1:A:404:ILE:HG22	2.30	0.47
1:B:21:ARG:HH21	1:B:21:ARG:HG2	1.79	0.47
1:B:88:TYR:CD2	1:B:139:PRO:HB3	2.49	0.47
1:B:232:LEU:HD23	1:B:232:LEU:H	1.78	0.47
1:B:237:ALA:CB	1:C:379:PHE:CB	2.93	0.47
1:B:346:ALA:C	1:B:348:TRP:N	2.71	0.47
1:B:385:PRO:HG2	1:B:396:ARG:CA	2.44	0.47
1:B:397:LYS:N	1:C:224:GLY:HA3	2.30	0.47
1:B:399:THR:HG22	1:C:196:SER:N	2.29	0.47
1:C:43:GLN:NE2	1:C:99:ASP:OD1	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:83:TRP:HH2	1:C:171:VAL:HG21	1.74	0.47
1:C:195:VAL:HG23	1:C:200:ILE:O	2.14	0.47
1:C:319:ILE:CA	1:C:325:PRO:HB2	2.39	0.47
1:C:364:SER:HB2	1:C:437:ILE:HG23	1.96	0.47
1:C:404:ILE:N	1:C:404:ILE:HG22	2.30	0.47
1:A:123:MET:CB	1:A:137:PHE:CE1	2.79	0.47
1:A:146:PHE:HB2	1:B:111:GLY:HA2	1.03	0.47
1:A:229:GLY:HA3	1:A:246:MET:CE	2.42	0.47
1:A:232:LEU:HD23	1:A:232:LEU:N	2.30	0.47
1:B:432:GLN:HG3	1:B:465:THR:HG21	1.90	0.47
1:C:55:MET:HG3	1:C:362:ILE:HG21	1.97	0.47
1:C:123:MET:CG	1:C:146:PHE:HE1	2.07	0.47
1:A:62:ILE:HD13	1:A:62:ILE:HG21	1.43	0.47
1:A:79:TYR:C	1:A:81:GLY:N	2.73	0.47
1:A:147:HIS:CE1	1:B:110:ARG:NH1	2.83	0.47
1:A:187:TRP:CD1	1:B:370:ASN:HB3	2.49	0.47
1:A:353:PRO:C	1:A:355:ASP:N	2.71	0.47
1:A:387:ILE:HG21	1:A:387:ILE:HD13	1.37	0.47
1:A:420:LEU:CD1	1:A:454:MET:HE2	2.45	0.47
1:B:204:ARG:CZ	1:B:230:GLU:CB	2.93	0.47
1:B:243:GLN:NE2	1:B:285:ASP:HA	2.30	0.47
1:B:252:TYR:CA	1:B:292:PHE:HZ	2.27	0.47
1:B:465:THR:HA	1:B:468:LEU:HD11	1.92	0.47
1:C:408:LEU:HD13	1:C:460:ARG:O	2.15	0.47
1:A:49:LEU:HD23	1:A:110:ARG:CD	2.41	0.47
1:A:143:GLN:NE2	1:B:108:HIS:CB	2.77	0.47
1:A:148:PRO:HG3	1:B:49:LEU:CD2	2.45	0.47
1:A:194:LEU:C	1:B:403:GLN:CG	2.88	0.47
1:B:294:GLU:OE1	1:B:331:GLN:HA	2.14	0.47
1:C:185:ASN:N	1:C:188:TYR:CD2	2.83	0.47
1:A:11:ILE:HD11	1:A:324:LEU:C	2.39	0.46
1:A:147:HIS:HB3	1:B:110:ARG:O	2.14	0.46
1:A:187:TRP:HZ3	1:A:190:TRP:CH2	2.33	0.46
1:A:217:PRO:HD3	1:A:245:VAL:HG22	1.91	0.46
1:A:221:LYS:CB	1:B:434:THR:HG22	2.44	0.46
1:A:243:GLN:NE2	1:A:285:ASP:HA	2.30	0.46
1:A:293:VAL:HG11	1:A:331:GLN:CD	2.40	0.46
1:A:418:TYR:CE1	1:A:454:MET:CE	2.98	0.46
1:A:422:LEU:HD11	1:A:425:ALA:HB2	1.97	0.46
1:B:147:HIS:N	1:B:175:ASP:O	2.48	0.46
1:B:282:ASP:HA	1:C:373:ILE:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:383:LYS:C	1:C:2:THR:CG2	1.98	0.46
1:C:78:ALA:O	1:C:81:GLY:CA	2.61	0.46
1:C:232:LEU:HD23	1:C:232:LEU:H	1.78	0.46
1:A:147:HIS:N	1:B:110:ARG:O	2.39	0.46
1:A:194:LEU:HA	1:B:403:GLN:CD	2.41	0.46
1:A:255:TYR:CD2	1:A:255:TYR:C	2.92	0.46
1:A:463:TYR:OH	1:A:463:TYR:CE2	2.51	0.46
1:B:272:LEU:O	1:B:275:MET:HB3	2.14	0.46
1:B:420:LEU:CD1	1:B:454:MET:HE2	2.45	0.46
1:B:458:LEU:CD1	1:B:460:ARG:NH2	2.79	0.46
1:C:19:PHE:HD1	1:C:347:THR:HB	1.77	0.46
1:C:204:ARG:CZ	1:C:230:GLU:CB	2.93	0.46
1:C:205:ILE:HD12	1:C:208:VAL:HG21	1.96	0.46
1:C:243:GLN:NE2	1:C:285:ASP:HA	2.30	0.46
1:C:255:TYR:CD2	1:C:255:TYR:C	2.92	0.46
1:C:420:LEU:CD1	1:C:454:MET:HE2	2.45	0.46
1:A:192:GLY:N	1:B:463:TYR:OH	2.41	0.46
1:A:215:PHE:CD2	1:B:367:ALA:HB2	2.51	0.46
1:A:458:LEU:CD1	1:A:460:ARG:NH2	2.79	0.46
1:B:11:ILE:CD1	1:B:324:LEU:C	2.89	0.46
1:B:383:LYS:CD	1:C:5:ASP:CG	2.86	0.46
1:C:476:ASP:O	1:C:477:SER:HB3	2.15	0.46
1:A:242:TYR:HA	1:A:245:VAL:HG12	1.97	0.46
1:A:243:GLN:CB	1:A:249:VAL:HG11	2.45	0.46
1:A:368:ILE:HG21	1:A:368:ILE:HD13	1.44	0.46
1:B:19:PHE:CE1	1:B:347:THR:HG21	2.50	0.46
1:B:107:LEU:HG	1:B:108:HIS:N	2.30	0.46
1:B:394:ALA:HB1	1:C:221:LYS:NZ	2.30	0.46
1:B:400:ASP:CB	1:C:195:VAL:N	2.78	0.46
1:C:148:PRO:O	1:C:165:TRP:NE1	2.48	0.46
1:C:240:CYS:N	1:C:241:PRO:HD2	2.30	0.46
1:C:293:VAL:HG11	1:C:331:GLN:CD	2.40	0.46
1:C:422:LEU:HD11	1:C:425:ALA:HB2	1.98	0.46
1:A:75:TYR:HE1	1:A:170:THR:CB	2.29	0.46
1:A:83:TRP:HH2	1:A:171:VAL:HG21	1.74	0.46
1:A:205:ILE:CG1	1:B:472:LYS:N	2.75	0.46
1:A:218:GLY:HA2	1:B:437:ILE:N	2.30	0.46
1:A:280:LYS:NZ	1:A:383:LYS:HB3	2.31	0.46
1:A:300:ARG:NH1	1:A:329:ALA:O	2.49	0.46
1:B:75:TYR:HE1	1:B:170:THR:CB	2.29	0.46
1:B:148:PRO:O	1:B:165:TRP:NE1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:277:ASN:CB	1:C:286:SER:C	2.80	0.46
1:B:408:LEU:HD13	1:B:460:ARG:O	2.15	0.46
1:C:11:ILE:CD1	1:C:324:LEU:C	2.89	0.46
1:C:400:ASP:CG	1:C:401:GLY:N	2.74	0.46
1:C:451:PRO:O	1:C:453:PRO:HD3	2.16	0.46
1:A:11:ILE:CD1	1:A:324:LEU:C	2.89	0.46
1:A:19:PHE:CE1	1:A:347:THR:HG21	2.50	0.46
1:A:185:ASN:ND2	1:B:319:ILE:HD12	2.30	0.46
1:A:204:ARG:CZ	1:A:230:GLU:CB	2.93	0.46
1:A:216:TRP:O	1:B:474:CYS:N	2.49	0.46
1:B:55:MET:HG3	1:B:362:ILE:HG21	1.97	0.46
1:B:62:ILE:HD13	1:B:62:ILE:HG21	1.42	0.46
1:B:68:GLN:NE2	1:B:81:GLY:HA2	2.29	0.46
1:B:78:ALA:O	1:B:81:GLY:CA	2.61	0.46
1:B:242:TYR:HA	1:B:245:VAL:HG12	1.97	0.46
1:B:340:ASP:OD1	1:B:341:PRO:N	2.48	0.46
1:C:61:TRP:HZ2	1:C:204:ARG:CZ	2.29	0.46
1:C:68:GLN:NE2	1:C:81:GLY:HA2	2.29	0.46
1:C:75:TYR:HE1	1:C:170:THR:CB	2.29	0.46
1:C:418:TYR:CE1	1:C:454:MET:CE	2.98	0.46
1:A:211:VAL:H	1:A:211:VAL:HG12	1.05	0.46
1:A:340:ASP:OD1	1:A:341:PRO:N	2.48	0.46
1:A:408:LEU:HD13	1:A:460:ARG:O	2.15	0.46
1:B:332:GLU:O	1:B:358:LEU:HB2	2.15	0.46
1:B:451:PRO:O	1:B:453:PRO:HD3	2.16	0.46
1:C:56:GLY:HA3	1:C:366:ASN:CB	2.42	0.46
1:C:79:TYR:C	1:C:81:GLY:N	2.73	0.46
1:A:78:ALA:O	1:A:81:GLY:CA	2.61	0.46
1:A:332:GLU:O	1:A:358:LEU:HB2	2.15	0.46
1:A:451:PRO:O	1:A:453:PRO:HD3	2.16	0.46
1:B:83:TRP:HH2	1:B:171:VAL:HG21	1.74	0.46
1:B:404:ILE:N	1:B:404:ILE:HG22	2.30	0.46
1:C:18:ARG:CD	1:C:344:ARG:HB3	2.46	0.46
1:C:263:LYS:H	1:C:310:LEU:HD23	1.81	0.46
1:C:332:GLU:O	1:C:358:LEU:HB2	2.15	0.46
1:A:55:MET:HG3	1:A:362:ILE:HG21	1.97	0.46
1:B:422:LEU:HD21	1:C:221:LYS:HG2	1.98	0.46
1:C:147:HIS:N	1:C:175:ASP:O	2.48	0.46
1:C:243:GLN:CB	1:C:249:VAL:HG11	2.45	0.46
1:C:300:ARG:NH1	1:C:329:ALA:O	2.49	0.46
1:C:388:LYS:CE	1:C:390:ASP:HB2	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:TRP:HZ2	1:A:204:ARG:CZ	2.29	0.46
1:A:87:ILE:HD11	1:B:374:SER:C	2.36	0.46
1:A:123:MET:CG	1:A:146:PHE:HE1	2.07	0.46
1:A:143:GLN:N	1:B:113:TYR:CD2	2.84	0.46
1:A:165:TRP:CZ2	1:B:110:ARG:N	2.77	0.46
1:A:180:LYS:CG	1:B:12:TYR:HB2	2.42	0.46
1:A:194:LEU:CG	1:B:375:LYS:CB	2.91	0.46
1:A:400:ASP:CG	1:A:401:GLY:N	2.74	0.46
1:B:243:GLN:CB	1:B:249:VAL:HG11	2.45	0.46
1:B:381:THR:HG22	1:C:1:ALA:CA	2.46	0.46
1:C:42:TRP:NE1	1:C:62:ILE:CD1	2.68	0.46
1:A:21:ARG:HG2	1:A:21:ARG:NH2	2.32	0.45
1:A:88:TYR:CE2	1:B:373:ILE:CA	2.88	0.45
1:A:147:HIS:N	1:A:175:ASP:O	2.48	0.45
1:A:194:LEU:O	1:B:403:GLN:CD	2.59	0.45
1:A:263:LYS:H	1:A:310:LEU:HD23	1.81	0.45
1:A:476:ASP:O	1:A:477:SER:HB3	2.15	0.45
1:B:176:LEU:O	1:B:177:ASP:HB2	2.16	0.45
1:B:353:PRO:C	1:B:355:ASP:H	2.24	0.45
1:B:404:ILE:HD12	1:B:404:ILE:HG21	1.03	0.45
1:C:19:PHE:CE1	1:C:347:THR:HG21	2.50	0.45
1:C:62:ILE:HG21	1:C:62:ILE:HD13	1.42	0.45
1:C:100:LEU:O	1:C:103:LEU:HB3	2.16	0.45
1:C:205:ILE:HG21	1:C:205:ILE:HD13	1.47	0.45
1:A:18:ARG:CD	1:A:344:ARG:HB3	2.46	0.45
1:A:31:ASN:ND2	1:A:33:ALA:HB3	2.31	0.45
1:A:185:ASN:HD22	1:B:319:ILE:CB	2.29	0.45
1:A:205:ILE:HD12	1:A:208:VAL:HG21	1.96	0.45
1:A:381:THR:O	1:A:382:TYR:C	2.59	0.45
1:B:18:ARG:CD	1:B:344:ARG:HB3	2.46	0.45
1:B:293:VAL:HG11	1:B:331:GLN:CD	2.41	0.45
1:C:21:ARG:HG2	1:C:21:ARG:NH2	2.32	0.45
1:C:55:MET:HE1	1:C:332:GLU:HB3	1.99	0.45
1:C:242:TYR:HA	1:C:245:VAL:HG12	1.97	0.45
1:C:381:THR:O	1:C:382:TYR:C	2.59	0.45
1:A:68:GLN:NE2	1:A:81:GLY:HA2	2.29	0.45
1:B:281:SER:HB2	1:C:8:SER:N	2.08	0.45
1:B:408:LEU:HD11	1:B:462:LEU:CD2	2.36	0.45
1:B:445:GLY:N	1:C:185:ASN:HD21	1.96	0.45
1:C:19:PHE:CD1	1:C:347:THR:CB	3.00	0.45
1:C:177:ASP:OD1	1:C:183:VAL:HG21	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:280:LYS:NZ	1:C:383:LYS:HB3	2.31	0.45
1:C:354:THR:O	1:C:359:TYR:CD1	2.70	0.45
1:A:144:ASP:N	1:B:113:TYR:CG	2.84	0.45
1:A:185:ASN:ND2	1:B:319:ILE:HB	2.31	0.45
1:A:191:VAL:HG11	1:A:219:TYR:CZ	2.07	0.45
1:B:19:PHE:CD1	1:B:347:THR:CB	3.00	0.45
1:B:21:ARG:HG2	1:B:21:ARG:NH2	2.32	0.45
1:B:31:ASN:ND2	1:B:33:ALA:HB3	2.31	0.45
1:B:43:GLN:NE2	1:B:99:ASP:OD1	2.46	0.45
1:B:55:MET:HE1	1:B:332:GLU:HB3	1.99	0.45
1:B:132:VAL:HG11	1:B:134:TYR:HE2	1.81	0.45
1:C:31:ASN:ND2	1:C:33:ALA:HB3	2.31	0.45
1:C:64:PRO:CG	1:C:82:TYR:HA	2.31	0.45
1:C:123:MET:CE	1:C:140:PHE:CE1	2.98	0.45
1:C:245:VAL:C	1:C:246:MET:CG	2.90	0.45
1:C:352:TYR:C	1:C:354:THR:N	2.71	0.45
1:A:145:TYR:CD1	1:B:113:TYR:CE2	3.01	0.45
1:A:194:LEU:HD13	1:B:375:LYS:CA	2.44	0.45
1:A:245:VAL:C	1:A:246:MET:CG	2.90	0.45
1:A:320:LEU:HD22	1:A:407:ILE:HD11	1.98	0.45
1:A:353:PRO:C	1:A:355:ASP:H	2.24	0.45
1:B:61:TRP:HZ2	1:B:204:ARG:CZ	2.29	0.45
1:B:66:THR:HB	1:B:67:ALA:H	1.23	0.45
1:B:79:TYR:C	1:B:81:GLY:N	2.73	0.45
1:B:100:LEU:O	1:B:103:LEU:HB3	2.16	0.45
1:B:245:VAL:C	1:B:246:MET:CG	2.90	0.45
1:B:255:TYR:CB	1:B:292:PHE:CE2	3.00	0.45
1:B:300:ARG:NH1	1:B:329:ALA:O	2.49	0.45
1:B:418:TYR:CE1	1:B:454:MET:CE	2.98	0.45
1:A:185:ASN:ND2	1:B:319:ILE:CB	2.79	0.45
1:B:82:TYR:OH	1:B:296:HIS:CE1	2.70	0.45
1:B:238:TYR:HD2	1:C:403:GLN:OE1	1.99	0.45
1:B:251:ASN:HD22	1:B:251:ASN:HA	1.53	0.45
1:B:285:ASP:OD2	1:C:5:ASP:OD2	2.30	0.45
1:C:2:THR:HB	1:C:3:PRO:CD	2.22	0.45
1:C:87:ILE:O	1:C:87:ILE:HG23	2.16	0.45
1:A:87:ILE:O	1:A:87:ILE:HG23	2.16	0.45
1:A:177:ASP:OD1	1:A:183:VAL:HG21	2.17	0.45
1:A:188:TYR:CZ	1:B:367:ALA:HB3	2.52	0.45
1:A:240:CYS:N	1:A:241:PRO:HD2	2.30	0.45
1:B:177:ASP:OD1	1:B:183:VAL:HG11	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:204:ARG:HH12	1:B:230:GLU:HG2	1.82	0.45
1:B:205:ILE:HD12	1:B:208:VAL:CB	2.46	0.45
1:B:232:LEU:O	1:B:233:ASP:HB2	2.17	0.45
1:B:241:PRO:CB	1:C:376:ASP:N	2.77	0.45
1:B:263:LYS:H	1:B:310:LEU:HD23	1.81	0.45
1:B:386:TYR:H	1:C:3:PRO:HB3	1.82	0.45
1:B:396:ARG:O	1:C:224:GLY:CA	2.65	0.45
1:C:176:LEU:O	1:C:177:ASP:HB2	2.16	0.45
1:C:317:PHE:CD1	1:C:318:ILE:N	2.85	0.45
1:C:340:ASP:OD1	1:C:341:PRO:N	2.48	0.45
1:A:19:PHE:CD1	1:A:347:THR:CB	3.00	0.45
1:A:55:MET:HE1	1:A:332:GLU:HB3	1.99	0.45
1:A:180:LYS:CA	1:B:55:MET:HG2	2.42	0.45
1:A:184:LYS:CE	1:B:366:ASN:ND2	2.80	0.45
1:A:227:CYS:SG	1:B:473:ILE:CG2	3.05	0.45
1:A:242:TYR:O	1:A:245:VAL:HG12	2.17	0.45
1:A:332:GLU:CG	1:A:333:GLN:H	2.30	0.45
1:B:380:VAL:CG1	1:B:381:THR:H	2.22	0.45
1:B:401:GLY:CA	1:C:196:SER:HB2	2.39	0.45
1:C:424:GLY:O	1:C:425:ALA:HB3	2.17	0.45
1:A:66:THR:O	1:A:67:ALA:HB2	2.17	0.45
1:A:148:PRO:CA	1:B:107:LEU:CB	2.94	0.45
1:A:182:VAL:CG2	1:B:58:THR:HB	2.47	0.45
1:A:317:PHE:CD1	1:A:318:ILE:N	2.85	0.45
1:A:424:GLY:O	1:A:425:ALA:HB3	2.17	0.45
1:C:123:MET:HG3	1:C:176:LEU:HD11	1.99	0.45
1:C:177:ASP:OD1	1:C:183:VAL:HG11	2.17	0.45
1:C:353:PRO:C	1:C:355:ASP:H	2.24	0.45
1:C:400:ASP:OD1	1:C:401:GLY:N	2.50	0.45
1:A:55:MET:CG	1:A:57:PHE:HE2	2.26	0.45
1:A:82:TYR:OH	1:A:296:HIS:CE1	2.70	0.45
1:A:107:LEU:HG	1:A:108:HIS:N	2.30	0.45
1:A:258:LEU:HD12	1:A:317:PHE:CE1	2.52	0.45
1:A:354:THR:O	1:A:359:TYR:CD1	2.70	0.45
1:B:107:LEU:HD12	1:B:111:GLY:O	2.17	0.45
1:B:229:GLY:HA3	1:B:246:MET:CE	2.42	0.45
1:B:277:ASN:CB	1:C:286:SER:CB	2.69	0.45
1:B:424:GLY:O	1:B:425:ALA:HB3	2.17	0.45
1:C:158:GLN:HA	1:C:161:VAL:HG11	1.99	0.45
1:C:242:TYR:O	1:C:245:VAL:HG12	2.17	0.45
1:C:373:ILE:HA	1:C:377:THR:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:458:LEU:CD1	1:C:460:ARG:NH2	2.79	0.45
1:A:373:ILE:HA	1:A:377:THR:HA	1.99	0.44
1:B:123:MET:HG3	1:B:176:LEU:HD11	1.99	0.44
1:B:236:PRO:CB	1:B:278:THR:HG22	2.43	0.44
1:B:241:PRO:CA	1:C:374:SER:HA	2.28	0.44
1:B:278:THR:CB	1:C:381:THR:HG1	2.30	0.44
1:B:373:ILE:HA	1:B:377:THR:HA	1.99	0.44
1:B:387:ILE:HG23	1:B:388:LYS:N	2.32	0.44
1:B:428:THR:O	1:C:185:ASN:OD1	2.35	0.44
1:B:453:PRO:O	1:B:460:ARG:NE	2.50	0.44
1:C:66:THR:O	1:C:67:ALA:HB2	2.17	0.44
1:C:472:LYS:O	1:C:473:ILE:CB	2.65	0.44
1:A:31:ASN:CG	1:A:31:ASN:O	2.60	0.44
1:A:158:GLN:HA	1:A:161:VAL:HG11	1.99	0.44
1:A:179:THR:HG23	1:B:50:ASP:O	2.16	0.44
1:A:188:TYR:N	1:B:370:ASN:N	2.62	0.44
1:A:400:ASP:OD1	1:A:401:GLY:N	2.50	0.44
1:B:277:ASN:ND2	1:C:286:SER:CB	2.66	0.44
1:B:368:ILE:HD13	1:B:368:ILE:HG21	1.44	0.44
1:C:252:TYR:CA	1:C:292:PHE:HZ	2.27	0.44
1:C:258:LEU:HD12	1:C:317:PHE:CE1	2.52	0.44
1:C:318:ILE:HG12	1:C:319:ILE:N	2.33	0.44
1:A:177:ASP:OD1	1:A:183:VAL:HG11	2.17	0.44
1:A:191:VAL:HG23	1:A:192:GLY:N	2.33	0.44
1:A:422:LEU:HD12	1:A:424:GLY:O	2.18	0.44
1:B:64:PRO:CG	1:B:82:TYR:HA	2.31	0.44
1:B:66:THR:O	1:B:67:ALA:HB2	2.17	0.44
1:B:213:LYS:HG2	1:C:375:LYS:HG3	1.99	0.44
1:C:107:LEU:HD12	1:C:111:GLY:O	2.17	0.44
1:C:152:ILE:HD11	1:C:166:LEU:CG	2.48	0.44
1:C:159:THR:O	1:C:159:THR:HG22	2.17	0.44
1:C:204:ARG:HH12	1:C:230:GLU:HG2	1.82	0.44
1:C:205:ILE:HD12	1:C:208:VAL:CB	2.46	0.44
1:C:232:LEU:O	1:C:233:ASP:HB2	2.16	0.44
1:A:100:LEU:O	1:A:103:LEU:HB3	2.17	0.44
1:A:179:THR:HA	1:B:54:GLY:N	2.30	0.44
1:A:187:TRP:HB2	1:B:370:ASN:HB2	1.14	0.44
1:B:87:ILE:O	1:B:87:ILE:HG23	2.16	0.44
1:B:123:MET:H	1:B:174:PRO:HG2	1.82	0.44
1:B:123:MET:CG	1:B:146:PHE:HE1	2.07	0.44
1:B:354:THR:O	1:B:359:TYR:CD1	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:400:ASP:HB3	1:C:194:LEU:C	2.34	0.44
1:C:107:LEU:HG	1:C:108:HIS:N	2.31	0.44
1:A:107:LEU:HD12	1:A:111:GLY:O	2.17	0.44
1:A:152:ILE:HD11	1:A:166:LEU:CG	2.48	0.44
1:A:177:ASP:C	1:B:53:GLN:CA	2.88	0.44
1:A:255:TYR:CB	1:A:292:PHE:CE2	3.00	0.44
1:A:453:PRO:O	1:A:460:ARG:NE	2.50	0.44
1:B:177:ASP:OD1	1:B:183:VAL:HG21	2.16	0.44
1:C:21:ARG:NH2	1:C:39:GLY:O	2.51	0.44
1:C:82:TYR:OH	1:C:296:HIS:CE1	2.70	0.44
1:C:123:MET:H	1:C:174:PRO:HG2	1.82	0.44
1:C:255:TYR:CB	1:C:292:PHE:CE2	3.00	0.44
1:C:320:LEU:HD22	1:C:407:ILE:HD11	1.98	0.44
1:A:21:ARG:NH2	1:A:39:GLY:O	2.51	0.44
1:A:184:LYS:N	1:B:56:GLY:CA	2.67	0.44
1:A:232:LEU:O	1:A:233:ASP:HB2	2.16	0.44
1:A:285:ASP:C	1:A:287:THR:N	2.74	0.44
1:A:318:ILE:HG12	1:A:319:ILE:N	2.33	0.44
1:B:242:TYR:O	1:B:245:VAL:HG12	2.17	0.44
1:B:472:LYS:HE2	1:B:478:SER:OXT	2.18	0.44
1:C:49:LEU:O	1:C:52:ILE:CG1	2.66	0.44
1:C:132:VAL:HG11	1:C:134:TYR:HE2	1.82	0.44
1:C:420:LEU:CD2	1:C:452:VAL:CG1	2.83	0.44
1:A:73:CYS:CB	1:A:126:ASP:OD1	2.65	0.44
1:A:123:MET:H	1:A:174:PRO:HG2	1.82	0.44
1:A:246:MET:HB3	1:B:476:ASP:CA	2.46	0.44
1:A:472:LYS:HE2	1:A:478:SER:OXT	2.18	0.44
1:B:55:MET:CE	1:B:332:GLU:HB3	2.48	0.44
1:B:258:LEU:HD12	1:B:317:PHE:CE1	2.52	0.44
1:B:317:PHE:CD1	1:B:318:ILE:N	2.85	0.44
1:B:318:ILE:HG12	1:B:319:ILE:N	2.33	0.44
1:A:49:LEU:O	1:A:52:ILE:CG1	2.66	0.44
1:A:123:MET:HG3	1:A:176:LEU:HD11	1.99	0.44
1:A:132:VAL:HG21	1:B:109:GLU:HA	2.00	0.44
1:A:144:ASP:N	1:B:113:TYR:CD2	2.85	0.44
1:A:176:LEU:O	1:A:177:ASP:HB2	2.16	0.44
1:A:238:TYR:CD1	1:A:239:THR:N	2.86	0.44
1:A:250:LEU:C	1:A:252:TYR:H	2.26	0.44
1:B:20:ALA:O	1:B:21:ARG:HB2	2.18	0.44
1:B:158:GLN:HA	1:B:161:VAL:HG11	1.99	0.44
1:B:251:ASN:HB3	1:B:254:ILE:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:383:LYS:HZ2	1:C:6:TRP:N	2.10	0.44
1:C:117:ASP:HA	1:C:204:ARG:HB3	2.00	0.44
1:C:191:VAL:HG23	1:C:192:GLY:N	2.33	0.44
1:C:353:PRO:O	1:C:355:ASP:N	2.51	0.44
1:C:453:PRO:O	1:C:460:ARG:NE	2.50	0.44
1:A:132:VAL:HG11	1:A:134:TYR:HE2	1.82	0.44
1:A:137:PHE:CD1	1:A:146:PHE:CZ	3.06	0.44
1:A:145:TYR:OH	1:B:6:TRP:N	2.51	0.44
1:A:147:HIS:C	1:B:107:LEU:O	2.54	0.44
1:A:353:PRO:O	1:A:355:ASP:N	2.51	0.44
1:A:369:ARG:HH11	1:A:369:ARG:CB	2.29	0.44
1:B:21:ARG:NH2	1:B:39:GLY:O	2.51	0.44
1:B:48:LYS:HA	1:B:48:LYS:CE	2.46	0.44
1:B:162:GLU:HA	1:B:210:HIS:O	2.18	0.44
1:B:353:PRO:O	1:B:355:ASP:N	2.51	0.44
1:C:46:ILE:HG21	1:C:46:ILE:HD13	1.78	0.44
1:C:55:MET:SD	1:C:362:ILE:CD1	3.06	0.44
1:C:229:GLY:HA3	1:C:246:MET:CE	2.42	0.44
1:C:238:TYR:CD1	1:C:239:THR:N	2.86	0.44
1:C:472:LYS:HE2	1:C:478:SER:OXT	2.18	0.44
1:A:57:PHE:CZ	1:A:327:ILE:CG2	2.99	0.43
1:A:117:ASP:HA	1:A:204:ARG:HB3	2.00	0.43
1:A:159:THR:O	1:A:159:THR:HG22	2.17	0.43
1:A:187:TRP:HB2	1:B:367:ALA:O	2.17	0.43
1:A:223:ALA:CA	1:B:463:TYR:CD1	2.97	0.43
1:A:420:LEU:CD2	1:A:452:VAL:CG1	2.82	0.43
1:B:31:ASN:CG	1:B:31:ASN:O	2.61	0.43
1:B:73:CYS:CB	1:B:126:ASP:OD1	2.65	0.43
1:B:253:PRO:HB2	1:B:275:MET:CE	2.48	0.43
1:B:255:TYR:CD1	1:B:292:PHE:HD2	2.36	0.43
1:C:162:GLU:HA	1:C:210:HIS:O	2.18	0.43
1:C:214:ASP:C	1:C:217:PRO:HD2	2.43	0.43
1:A:137:PHE:O	1:A:139:PRO:CD	2.66	0.43
1:A:178:THR:HA	1:B:52:ILE:CD1	2.45	0.43
1:A:182:VAL:HB	1:B:57:PHE:HB3	1.54	0.43
1:A:187:TRP:CD1	1:B:370:ASN:HB2	2.53	0.43
1:A:253:PRO:HB2	1:A:275:MET:CE	2.49	0.43
1:B:7:ARG:HG3	1:B:288:LEU:HD23	2.00	0.43
1:B:49:LEU:O	1:B:52:ILE:CG1	2.66	0.43
1:B:250:LEU:C	1:B:252:TYR:H	2.26	0.43
1:B:403:GLN:HG3	1:B:467:LYS:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:73:CYS:CB	1:C:126:ASP:OD1	2.65	0.43
1:C:205:ILE:HG21	1:C:216:TRP:CZ3	2.53	0.43
1:C:369:ARG:HH11	1:C:369:ARG:CB	2.29	0.43
1:C:422:LEU:HD12	1:C:424:GLY:O	2.18	0.43
1:A:55:MET:CG	1:A:362:ILE:HG21	2.49	0.43
1:A:162:GLU:HA	1:A:210:HIS:O	2.18	0.43
1:A:185:ASN:HD21	1:B:319:ILE:HG13	1.83	0.43
1:A:214:ASP:C	1:A:217:PRO:HD2	2.43	0.43
1:A:403:GLN:HG3	1:A:467:LYS:HG2	2.00	0.43
1:B:137:PHE:O	1:B:139:PRO:CD	2.66	0.43
1:B:319:ILE:CA	1:B:325:PRO:CB	2.73	0.43
1:B:382:TYR:CE1	1:C:2:THR:HG22	2.51	0.43
1:C:55:MET:CE	1:C:332:GLU:HB3	2.48	0.43
1:C:137:PHE:CD1	1:C:146:PHE:CZ	3.06	0.43
1:C:149:PHE:CD1	1:C:165:TRP:CD2	3.07	0.43
1:C:209:LYS:HB2	1:C:231:VAL:HG11	2.01	0.43
1:A:130:SER:N	1:B:109:GLU:OE2	2.51	0.43
1:A:179:THR:HG21	1:B:50:ASP:C	2.27	0.43
1:A:180:LYS:HZ1	1:B:11:ILE:N	2.16	0.43
1:A:220:ASN:OD1	1:B:474:CYS:SG	2.73	0.43
1:A:307:ASP:OD2	1:A:307:ASP:N	2.51	0.43
1:A:388:LYS:HE2	1:A:390:ASP:CB	2.39	0.43
1:B:123:MET:CE	1:B:140:PHE:CE1	2.98	0.43
1:B:205:ILE:HG21	1:B:216:TRP:CZ3	2.53	0.43
1:B:209:LYS:HB2	1:B:231:VAL:HG11	2.01	0.43
1:C:66:THR:O	1:C:91:ASN:N	2.52	0.43
1:C:101:LYS:O	1:C:105:SER:HB2	2.19	0.43
1:C:388:LYS:HE2	1:C:390:ASP:CB	2.40	0.43
1:A:149:PHE:CD1	1:A:165:TRP:CD2	3.07	0.43
1:A:201:ASP:HA	1:B:466:GLU:HA	1.99	0.43
1:A:222:ALA:HB3	1:B:473:ILE:CG1	2.48	0.43
1:A:227:CYS:CA	1:B:476:ASP:CA	2.92	0.43
1:A:249:VAL:HA	1:B:477:SER:HB3	1.99	0.43
1:B:101:LYS:O	1:B:105:SER:HB2	2.19	0.43
1:B:149:PHE:CD1	1:B:165:TRP:CD2	3.07	0.43
1:B:339:ASN:O	1:B:340:ASP:HB2	2.19	0.43
1:B:394:ALA:HB1	1:C:221:LYS:HZ3	1.82	0.43
1:C:61:TRP:CZ2	1:C:204:ARG:NE	2.85	0.43
1:C:132:VAL:HG11	1:C:134:TYR:CE2	2.54	0.43
1:C:204:ARG:NH1	1:C:230:GLU:CB	2.82	0.43
1:C:385:PRO:CG	1:C:396:ARG:O	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:387:ILE:HG23	1:C:388:LYS:N	2.32	0.43
1:A:7:ARG:HG3	1:A:288:LEU:HD23	2.00	0.43
1:A:101:LYS:O	1:A:105:SER:HB2	2.19	0.43
1:A:180:LYS:CE	1:B:12:TYR:CA	2.88	0.43
1:A:187:TRP:HB3	1:B:371:TYR:CB	2.49	0.43
1:A:190:TRP:NE1	1:B:376:ASP:H	2.09	0.43
1:A:252:TYR:CA	1:A:292:PHE:HZ	2.27	0.43
1:B:46:ILE:HD13	1:B:46:ILE:HG21	1.78	0.43
1:B:132:VAL:HG11	1:B:134:TYR:CE2	2.54	0.43
1:B:159:THR:O	1:B:159:THR:HG22	2.18	0.43
1:B:307:ASP:OD2	1:B:307:ASP:N	2.51	0.43
1:B:450:VAL:HA	1:B:451:PRO:HD2	1.82	0.43
1:C:182:VAL:HG13	1:C:183:VAL:N	2.17	0.43
1:C:430:GLY:N	1:C:445:GLY:HA2	2.34	0.43
1:A:55:MET:CE	1:A:332:GLU:HB3	2.48	0.43
1:A:177:ASP:CB	1:B:53:GLN:CG	2.92	0.43
1:A:211:VAL:HG21	1:A:215:PHE:HB3	2.00	0.43
1:B:137:PHE:CD1	1:B:146:PHE:CZ	3.06	0.43
1:B:191:VAL:HG23	1:B:192:GLY:N	2.33	0.43
1:B:315:ALA:O	1:B:318:ILE:HG23	2.19	0.43
1:B:320:LEU:HD22	1:B:407:ILE:HD11	1.98	0.43
1:C:137:PHE:O	1:C:139:PRO:CD	2.66	0.43
1:C:275:MET:C	1:C:277:ASN:N	2.77	0.43
1:A:132:VAL:HG11	1:A:134:TYR:CE2	2.54	0.43
1:A:204:ARG:HH12	1:A:230:GLU:HG2	1.82	0.43
1:B:204:ARG:HG2	1:B:204:ARG:HH11	1.84	0.43
1:B:211:VAL:H	1:B:211:VAL:HG12	1.06	0.43
1:B:214:ASP:C	1:B:217:PRO:HD2	2.43	0.43
1:B:332:GLU:CG	1:B:333:GLN:H	2.30	0.43
1:B:388:LYS:CE	1:B:390:ASP:HB2	2.39	0.43
1:B:472:LYS:O	1:B:473:ILE:CG2	2.66	0.43
1:C:31:ASN:CG	1:C:31:ASN:O	2.60	0.43
1:C:251:ASN:HD22	1:C:251:ASN:HA	1.53	0.43
1:C:315:ALA:O	1:C:318:ILE:HG23	2.19	0.43
1:A:20:ALA:O	1:A:21:ARG:HB2	2.18	0.43
1:A:64:PRO:CG	1:A:82:TYR:HA	2.31	0.43
1:A:123:MET:CE	1:A:140:PHE:CE1	2.98	0.43
1:A:251:ASN:HB3	1:A:254:ILE:HG21	2.00	0.43
1:A:280:LYS:HE3	1:A:383:LYS:CA	2.48	0.43
1:A:315:ALA:O	1:A:318:ILE:HG23	2.19	0.43
1:A:430:GLY:N	1:A:445:GLY:HA2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:190:TRP:CZ3	1:B:191:VAL:CG1	3.01	0.43
1:B:200:ILE:CG2	1:B:203:LEU:HD11	2.38	0.43
1:B:204:ARG:CG	1:B:204:ARG:HH11	2.20	0.43
1:B:238:TYR:CD1	1:B:239:THR:N	2.86	0.43
1:B:317:PHE:O	1:B:321:ASN:CB	2.67	0.43
1:B:382:TYR:HD2	1:B:398:GLY:O	2.02	0.43
1:C:307:ASP:OD2	1:C:307:ASP:N	2.51	0.43
1:A:55:MET:CG	1:A:57:PHE:CE2	2.98	0.43
1:A:87:ILE:O	1:A:88:TYR:CB	2.67	0.43
1:A:137:PHE:O	1:A:140:PHE:HB2	2.19	0.43
1:A:145:TYR:CD1	1:B:113:TYR:CD2	3.06	0.43
1:A:204:ARG:NH1	1:A:230:GLU:CB	2.82	0.43
1:A:251:ASN:HD22	1:A:251:ASN:HA	1.53	0.43
1:A:317:PHE:O	1:A:321:ASN:CB	2.67	0.43
1:A:387:ILE:HG23	1:A:388:LYS:N	2.32	0.43
1:A:436:VAL:C	1:A:437:ILE:HG13	2.41	0.43
1:A:444:VAL:HG13	1:A:444:VAL:H	1.30	0.43
1:B:87:ILE:HD11	1:B:190:TRP:CE2	2.54	0.43
1:B:140:PHE:CZ	1:B:176:LEU:HD21	2.54	0.43
1:B:234:GLY:C	1:B:253:PRO:HB3	2.44	0.43
1:B:408:LEU:HD13	1:B:408:LEU:N	2.30	0.43
1:B:422:LEU:HD12	1:B:424:GLY:O	2.18	0.43
1:B:435:GLU:CB	1:B:440:THR:HB	2.46	0.43
1:C:12:TYR:CG	1:C:52:ILE:HG22	2.54	0.43
1:C:245:VAL:C	1:C:246:MET:HG3	2.44	0.43
1:C:250:LEU:C	1:C:252:TYR:H	2.26	0.43
1:C:253:PRO:HB2	1:C:275:MET:CE	2.49	0.43
1:C:280:LYS:HE3	1:C:383:LYS:CA	2.48	0.43
1:A:66:THR:O	1:A:91:ASN:N	2.52	0.42
1:A:148:PRO:CB	1:B:49:LEU:HD23	2.46	0.42
1:A:245:VAL:C	1:A:246:MET:HG3	2.44	0.42
1:A:279:VAL:HG23	1:A:283:CYS:SG	2.59	0.42
1:A:300:ARG:HB2	1:A:336:ALA:O	2.19	0.42
1:B:117:ASP:HA	1:B:204:ARG:HB3	2.00	0.42
1:B:137:PHE:O	1:B:140:PHE:HB2	2.19	0.42
1:B:158:GLN:CD	1:C:467:LYS:HZ3	2.27	0.42
1:B:204:ARG:NH1	1:B:230:GLU:CB	2.82	0.42
1:B:385:PRO:HD2	1:C:2:THR:CG2	2.39	0.42
1:B:385:PRO:CG	1:B:396:ARG:O	2.67	0.42
1:B:422:LEU:CD1	1:C:221:LYS:CB	2.91	0.42
1:B:433:LEU:HD13	1:B:464:PRO:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:443:THR:O	1:B:451:PRO:CD	2.67	0.42
1:C:7:ARG:HG3	1:C:288:LEU:HD23	2.00	0.42
1:C:18:ARG:HG2	1:C:345:GLU:H	1.84	0.42
1:C:55:MET:CG	1:C:362:ILE:HG21	2.49	0.42
1:C:57:PHE:CZ	1:C:327:ILE:CG2	2.99	0.42
1:C:190:TRP:CZ3	1:C:191:VAL:CG1	3.01	0.42
1:C:208:VAL:HG12	1:C:231:VAL:HG11	1.97	0.42
1:A:12:TYR:CG	1:A:52:ILE:HG22	2.54	0.42
1:A:64:PRO:CG	1:A:81:GLY:C	2.93	0.42
1:A:190:TRP:CZ3	1:B:371:TYR:HD1	2.09	0.42
1:A:190:TRP:N	1:B:369:ARG:O	2.52	0.42
1:A:234:GLY:C	1:A:253:PRO:HB3	2.44	0.42
1:A:255:TYR:HB3	1:A:292:PHE:CE2	2.54	0.42
1:B:11:ILE:HA	1:B:59:ALA:HB3	2.01	0.42
1:B:213:LYS:CD	1:C:375:LYS:HG2	2.49	0.42
1:B:213:LYS:HZ1	1:C:375:LYS:HB3	1.84	0.42
1:B:245:VAL:C	1:B:246:MET:HG3	2.44	0.42
1:C:20:ALA:O	1:C:21:ARG:HB2	2.18	0.42
1:C:137:PHE:O	1:C:140:PHE:HB2	2.19	0.42
1:C:234:GLY:C	1:C:253:PRO:HB3	2.44	0.42
1:C:400:ASP:O	1:C:403:GLN:HB2	2.19	0.42
1:A:13:PHE:HD1	1:A:14:LEU:N	2.18	0.42
1:A:190:TRP:CZ3	1:A:191:VAL:CG1	3.01	0.42
1:A:275:MET:C	1:A:277:ASN:N	2.77	0.42
1:A:400:ASP:O	1:A:403:GLN:HB2	2.19	0.42
1:A:443:THR:O	1:A:451:PRO:CD	2.67	0.42
1:B:57:PHE:CZ	1:B:362:ILE:HG21	2.54	0.42
1:B:64:PRO:CG	1:B:81:GLY:C	2.93	0.42
1:B:116:VAL:HG13	1:B:116:VAL:O	2.20	0.42
1:B:142:SER:HB2	1:B:145:TYR:CE1	2.55	0.42
1:B:300:ARG:HB2	1:B:336:ALA:O	2.19	0.42
1:B:400:ASP:O	1:B:403:GLN:HB2	2.19	0.42
1:B:401:GLY:O	1:B:403:GLN:HG3	2.20	0.42
1:C:13:PHE:HD1	1:C:14:LEU:N	2.17	0.42
1:C:52:ILE:HD13	1:C:52:ILE:HG21	1.75	0.42
1:C:251:ASN:HB3	1:C:254:ILE:HG21	2.00	0.42
1:C:255:TYR:HB3	1:C:292:PHE:CE2	2.54	0.42
1:A:190:TRP:NE1	1:B:376:ASP:N	2.65	0.42
1:A:193:SER:CB	1:B:403:GLN:HB3	2.50	0.42
1:A:200:ILE:CG2	1:A:203:LEU:HD11	2.38	0.42
1:B:66:THR:O	1:B:91:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:236:PRO:HB3	1:B:278:THR:CG2	2.49	0.42
1:B:279:VAL:HG13	1:B:280:LYS:N	2.35	0.42
1:B:348:TRP:O	1:B:350:SER:N	2.53	0.42
1:B:383:LYS:HZ1	1:C:5:ASP:CB	2.12	0.42
1:C:48:LYS:HA	1:C:48:LYS:CE	2.46	0.42
1:C:87:ILE:HD11	1:C:190:TRP:CE2	2.54	0.42
1:C:403:GLN:HG3	1:C:467:LYS:HG2	2.00	0.42
1:C:450:VAL:HA	1:C:451:PRO:HD2	1.82	0.42
1:A:42:TRP:CZ3	1:A:94:TYR:CD2	3.07	0.42
1:A:209:LYS:HB2	1:A:231:VAL:HG11	2.01	0.42
1:A:312:LYS:CG	1:A:361:LEU:HD13	2.49	0.42
1:B:369:ARG:HH11	1:B:369:ARG:CB	2.29	0.42
1:B:382:TYR:CG	1:B:398:GLY:N	2.85	0.42
1:B:446:SER:OG	1:C:181:ASP:CB	2.38	0.42
1:C:140:PHE:CZ	1:C:176:LEU:HD21	2.54	0.42
1:C:211:VAL:HG21	1:C:215:PHE:HB3	2.00	0.42
1:C:401:GLY:O	1:C:403:GLN:HG3	2.20	0.42
1:C:433:LEU:HD13	1:C:464:PRO:HA	2.02	0.42
1:C:436:VAL:C	1:C:437:ILE:HG13	2.41	0.42
1:A:61:TRP:CZ2	1:A:204:ARG:NE	2.85	0.42
1:A:140:PHE:CZ	1:A:176:LEU:HD21	2.54	0.42
1:A:190:TRP:CZ2	1:B:374:SER:HB2	2.44	0.42
1:A:190:TRP:HH2	1:B:375:LYS:CE	2.31	0.42
1:A:385:PRO:CG	1:A:396:ARG:O	2.67	0.42
1:B:55:MET:CG	1:B:362:ILE:HG21	2.49	0.42
1:B:428:THR:HB	1:C:190:TRP:N	2.34	0.42
1:B:431:GLN:HG2	1:C:189:ASP:CG	2.45	0.42
1:B:436:VAL:C	1:B:437:ILE:HG13	2.41	0.42
1:C:64:PRO:CG	1:C:81:GLY:C	2.93	0.42
1:C:87:ILE:O	1:C:88:TYR:CB	2.67	0.42
1:C:279:VAL:HG23	1:C:283:CYS:SG	2.59	0.42
1:A:185:ASN:HD22	1:B:319:ILE:HD12	1.85	0.42
1:A:348:TRP:O	1:A:350:SER:N	2.53	0.42
1:A:382:TYR:HD2	1:A:398:GLY:O	2.02	0.42
1:A:401:GLY:O	1:A:403:GLN:HG3	2.20	0.42
1:A:433:LEU:HD13	1:A:464:PRO:HA	2.02	0.42
1:B:107:LEU:O	1:B:111:GLY:N	2.51	0.42
1:B:255:TYR:HB3	1:B:292:PHE:CE2	2.54	0.42
1:B:280:LYS:O	1:B:281:SER:HB2	2.11	0.42
1:B:308:ILE:H	1:B:308:ILE:HG13	1.20	0.42
1:B:400:ASP:OD1	1:B:401:GLY:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:300:ARG:HB2	1:C:336:ALA:O	2.19	0.42
1:A:194:LEU:HA	1:B:376:ASP:HB3	2.00	0.42
1:A:229:GLY:CA	1:B:476:ASP:OD1	2.68	0.42
1:A:339:ASN:O	1:A:340:ASP:HB2	2.19	0.42
1:A:427:TYR:CZ	1:A:433:LEU:HD11	2.55	0.42
1:B:12:TYR:OH	1:B:19:PHE:HE1	2.03	0.42
1:B:18:ARG:HG2	1:B:345:GLU:H	1.84	0.42
1:B:55:MET:SD	1:B:362:ILE:CD1	3.06	0.42
1:B:132:VAL:CG1	1:B:134:TYR:CE2	3.02	0.42
1:B:213:LYS:CD	1:C:375:LYS:CG	2.98	0.42
1:B:256:TYR:CB	1:B:257:PRO:CD	2.98	0.42
1:B:277:ASN:HD22	1:C:286:SER:CB	2.28	0.42
1:B:422:LEU:CD2	1:C:221:LYS:HG2	2.49	0.42
1:B:430:GLY:N	1:B:445:GLY:HA2	2.33	0.42
1:B:447:ASP:HB3	1:C:184:LYS:HE2	1.67	0.42
1:C:42:TRP:CZ3	1:C:94:TYR:CD2	3.07	0.42
1:C:348:TRP:O	1:C:350:SER:N	2.53	0.42
1:C:408:LEU:HD11	1:C:462:LEU:CD2	2.35	0.42
1:C:444:VAL:HG13	1:C:444:VAL:H	1.30	0.42
1:A:11:ILE:HA	1:A:59:ALA:HB3	2.01	0.42
1:A:57:PHE:CZ	1:A:362:ILE:HG21	2.54	0.42
1:A:180:LYS:NZ	1:A:182:VAL:HB	2.21	0.42
1:A:193:SER:CB	1:B:403:GLN:CB	2.94	0.42
1:A:246:MET:CE	1:B:476:ASP:CB	2.97	0.42
1:A:407:ILE:HA	1:A:461:VAL:HA	2.02	0.42
1:B:13:PHE:CB	1:B:328:TYR:HA	2.50	0.42
1:B:42:TRP:CZ3	1:B:94:TYR:CD2	3.07	0.42
1:B:152:ILE:HD11	1:B:166:LEU:CG	2.48	0.42
1:B:279:VAL:HG23	1:B:283:CYS:SG	2.59	0.42
1:B:295:ASN:O	1:B:298:ASN:N	2.53	0.42
1:B:418:TYR:HD1	1:B:454:MET:HE3	1.82	0.42
1:B:458:LEU:HA	1:B:459:PRO:HD2	1.65	0.42
1:C:317:PHE:O	1:C:321:ASN:CB	2.67	0.42
1:C:407:ILE:HA	1:C:461:VAL:HA	2.02	0.42
1:C:432:GLN:O	1:C:465:THR:HB	2.20	0.42
1:A:132:VAL:CG1	1:A:134:TYR:CE2	3.02	0.42
1:A:199:SER:O	1:B:466:GLU:HG3	2.20	0.42
1:A:380:VAL:HG13	1:A:381:THR:N	2.28	0.42
1:B:136:VAL:O	1:B:136:VAL:CG1	2.68	0.42
1:B:241:PRO:CB	1:C:376:ASP:H	2.33	0.42
1:B:380:VAL:HG13	1:B:381:THR:N	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:12:TYR:CD1	1:C:14:LEU:HD23	2.53	0.42
1:C:136:VAL:O	1:C:136:VAL:CG1	2.68	0.42
1:C:265:THR:O	1:C:411:LYS:HD2	2.20	0.42
1:C:330:GLY:HA3	1:C:335:TYR:HD1	1.85	0.42
1:C:340:ASP:CG	1:C:341:PRO:N	2.78	0.42
1:C:368:ILE:HG21	1:C:368:ILE:HD13	1.44	0.42
1:A:351:GLY:C	1:A:352:TYR:CD2	2.98	0.41
1:B:173:LEU:HA	1:B:174:PRO:HD2	1.82	0.41
1:B:255:TYR:HD1	1:B:292:PHE:HD2	1.68	0.41
1:B:287:THR:HG21	1:B:380:VAL:O	2.19	0.41
1:B:340:ASP:CG	1:B:341:PRO:N	2.78	0.41
1:C:12:TYR:OH	1:C:19:PHE:HE1	2.03	0.41
1:C:57:PHE:CZ	1:C:362:ILE:HG21	2.54	0.41
1:C:315:ALA:C	1:C:318:ILE:HG23	2.45	0.41
1:C:427:TYR:CZ	1:C:433:LEU:HD11	2.55	0.41
1:A:221:LYS:HB3	1:B:436:VAL:HA	0.43	0.41
1:A:315:ALA:C	1:A:318:ILE:HG23	2.45	0.41
1:A:330:GLY:HA3	1:A:335:TYR:HD1	1.85	0.41
1:A:408:LEU:HD11	1:A:462:LEU:CD2	2.36	0.41
1:B:87:ILE:O	1:B:88:TYR:CB	2.67	0.41
1:C:255:TYR:CD1	1:C:292:PHE:HD2	2.36	0.41
1:C:339:ASN:O	1:C:340:ASP:HB2	2.19	0.41
1:C:382:TYR:HD2	1:C:398:GLY:O	2.02	0.41
1:C:434:THR:CG2	1:C:474:CYS:SG	3.08	0.41
1:C:443:THR:O	1:C:451:PRO:CD	2.67	0.41
1:A:189:ASP:O	1:B:463:TYR:OH	2.30	0.41
1:A:205:ILE:CD1	1:B:472:LYS:CA	2.86	0.41
1:A:224:GLY:CA	1:B:434:THR:HB	2.50	0.41
1:A:255:TYR:CD1	1:A:292:PHE:HD2	2.36	0.41
1:A:265:THR:O	1:A:411:LYS:HD2	2.20	0.41
1:B:228:ILE:HD12	1:B:228:ILE:HG21	1.72	0.41
1:B:238:TYR:O	1:C:376:ASP:CA	2.46	0.41
1:C:66:THR:HG22	1:C:86:ASP:HB3	2.03	0.41
1:C:87:ILE:HG21	1:C:87:ILE:HD13	1.82	0.41
1:A:12:TYR:OH	1:A:19:PHE:HE1	2.03	0.41
1:A:18:ARG:HG2	1:A:345:GLU:H	1.84	0.41
1:A:55:MET:SD	1:A:362:ILE:CD1	3.06	0.41
1:A:185:ASN:ND2	1:B:319:ILE:HG13	2.34	0.41
1:A:235:ASP:O	1:A:236:PRO:C	2.63	0.41
1:A:262:PHE:CZ	1:A:314:VAL:CA	3.03	0.41
1:A:432:GLN:O	1:A:465:THR:HB	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:319:ILE:HG22	1:B:325:PRO:CB	2.27	0.41
1:B:330:GLY:CA	1:B:335:TYR:HD1	2.34	0.41
1:B:344:ARG:HD2	1:B:344:ARG:N	2.36	0.41
1:B:381:THR:CB	1:C:1:ALA:HB2	2.50	0.41
1:B:384:ASN:HA	1:C:2:THR:HG22	1.59	0.41
1:B:385:PRO:O	1:B:395:MET:CB	2.68	0.41
1:B:427:TYR:CZ	1:B:433:LEU:HD11	2.55	0.41
1:B:432:GLN:O	1:B:465:THR:HB	2.20	0.41
1:C:262:PHE:CZ	1:C:314:VAL:CA	3.03	0.41
1:C:346:ALA:HB3	1:C:349:LEU:HB2	2.03	0.41
1:A:136:VAL:O	1:A:136:VAL:CG1	2.68	0.41
1:A:145:TYR:C	1:B:112:MET:N	2.76	0.41
1:A:221:LYS:C	1:B:434:THR:HG21	2.27	0.41
1:A:379:PHE:CZ	1:A:397:LYS:HE2	2.56	0.41
1:A:434:THR:CG2	1:A:474:CYS:SG	3.08	0.41
1:B:42:TRP:NE1	1:B:62:ILE:CD1	2.68	0.41
1:B:243:GLN:HE21	1:B:285:ASP:HA	1.85	0.41
1:B:429:ALA:CB	1:C:186:GLU:HB3	2.30	0.41
1:C:142:SER:HB2	1:C:145:TYR:CE1	2.55	0.41
1:C:236:PRO:HB3	1:C:278:THR:CG2	2.49	0.41
1:C:379:PHE:CZ	1:C:397:LYS:HE2	2.56	0.41
1:A:48:LYS:HA	1:A:48:LYS:CE	2.46	0.41
1:A:208:VAL:HG22	1:A:216:TRP:NE1	2.36	0.41
1:A:216:TRP:HE3	1:B:472:LYS:HB3	1.38	0.41
1:A:295:ASN:O	1:A:298:ASN:N	2.53	0.41
1:A:401:GLY:HA3	1:A:403:GLN:NE2	2.36	0.41
1:A:408:LEU:HD13	1:A:408:LEU:N	2.30	0.41
1:B:12:TYR:CD1	1:B:14:LEU:HD23	2.54	0.41
1:B:19:PHE:CD1	1:B:347:THR:CG2	3.04	0.41
1:B:66:THR:HG22	1:B:86:ASP:HB3	2.03	0.41
1:B:134:TYR:CZ	1:B:143:GLN:HB2	2.55	0.41
1:B:191:VAL:HG23	1:B:192:GLY:H	1.85	0.41
1:B:199:SER:HB2	1:B:200:ILE:H	1.27	0.41
1:B:351:GLY:C	1:B:352:TYR:CD2	2.98	0.41
1:B:399:THR:HG22	1:B:400:ASP:N	2.36	0.41
1:B:399:THR:HG22	1:C:195:VAL:O	2.20	0.41
1:C:11:ILE:HA	1:C:59:ALA:HB3	2.02	0.41
1:C:117:ASP:OD2	1:C:204:ARG:NH1	2.54	0.41
1:C:122:HIS:ND1	1:C:173:LEU:CD2	2.78	0.41
1:C:132:VAL:CG1	1:C:134:TYR:CE2	3.03	0.41
1:C:134:TYR:CZ	1:C:143:GLN:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:137:PHE:CG	1:C:146:PHE:HZ	2.39	0.41
1:C:191:VAL:HG13	1:C:191:VAL:H	1.24	0.41
1:C:330:GLY:CA	1:C:335:TYR:HD1	2.34	0.41
1:C:338:GLY:O	1:C:340:ASP:N	2.53	0.41
1:C:408:LEU:HD13	1:C:408:LEU:N	2.31	0.41
1:A:66:THR:HG22	1:A:86:ASP:HB3	2.03	0.41
1:A:190:TRP:CZ2	1:B:375:LYS:HB2	2.35	0.41
1:A:296:HIS:C	1:A:298:ASN:H	2.29	0.41
1:A:340:ASP:CG	1:A:341:PRO:N	2.78	0.41
1:A:344:ARG:HD2	1:A:344:ARG:N	2.36	0.41
1:B:296:HIS:C	1:B:298:ASN:H	2.29	0.41
1:B:301:PHE:O	1:B:304:TYR:HD1	2.04	0.41
1:B:407:ILE:HA	1:B:461:VAL:HA	2.02	0.41
1:B:434:THR:CG2	1:B:474:CYS:SG	3.09	0.41
1:C:66:THR:HG21	1:C:87:ILE:N	2.35	0.41
1:C:116:VAL:O	1:C:116:VAL:HG13	2.20	0.41
1:C:208:VAL:HG22	1:C:216:TRP:NE1	2.36	0.41
1:C:296:HIS:C	1:C:298:ASN:H	2.29	0.41
1:A:52:ILE:HG12	1:A:52:ILE:H	1.59	0.41
1:A:228:ILE:HG21	1:A:228:ILE:HD12	1.72	0.41
1:A:390:ASP:CG	1:A:391:THR:H	2.28	0.41
1:B:13:PHE:HD1	1:B:14:LEU:N	2.18	0.41
1:B:275:MET:HA	1:C:7:ARG:NH1	2.29	0.41
1:B:279:VAL:HG11	1:C:4:ALA:HB1	1.83	0.41
1:B:472:LYS:O	1:B:473:ILE:CB	2.66	0.41
1:C:13:PHE:CB	1:C:328:TYR:HA	2.50	0.41
1:C:68:GLN:O	1:C:85:THR:CG2	2.69	0.41
1:C:256:TYR:CB	1:C:257:PRO:CD	2.98	0.41
1:C:285:ASP:C	1:C:287:THR:N	2.74	0.41
1:C:344:ARG:HD2	1:C:344:ARG:N	2.36	0.41
1:A:13:PHE:CB	1:A:328:TYR:HA	2.50	0.41
1:A:19:PHE:CD1	1:A:347:THR:CG2	3.04	0.41
1:A:66:THR:HG21	1:A:87:ILE:N	2.35	0.41
1:A:117:ASP:OD2	1:A:204:ARG:NH1	2.53	0.41
1:A:191:VAL:HG23	1:A:192:GLY:H	1.85	0.41
1:A:208:VAL:CG2	1:A:216:TRP:NE1	2.84	0.41
1:A:219:TYR:CG	1:B:473:ILE:CD1	2.87	0.41
1:A:246:MET:HE3	1:B:476:ASP:CB	2.50	0.41
1:A:272:LEU:HA	1:A:275:MET:HB3	2.02	0.41
1:A:283:CYS:SG	1:A:289:LEU:HD11	2.61	0.41
1:A:293:VAL:HG13	1:A:294:GLU:N	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:301:PHE:O	1:A:304:TYR:HD1	2.04	0.41
1:A:318:ILE:HG21	1:A:318:ILE:HD13	1.14	0.41
1:A:346:ALA:HB3	1:A:349:LEU:HB2	2.03	0.41
1:A:371:TYR:O	1:A:374:SER:HB2	2.21	0.41
1:A:385:PRO:O	1:A:395:MET:CB	2.68	0.41
1:A:465:THR:O	1:A:465:THR:HG23	2.21	0.41
1:B:66:THR:HG21	1:B:87:ILE:N	2.35	0.41
1:B:117:ASP:OD2	1:B:204:ARG:NH1	2.53	0.41
1:B:123:MET:CB	1:B:137:PHE:CE1	2.80	0.41
1:B:235:ASP:O	1:B:236:PRO:C	2.63	0.41
1:B:255:TYR:CE1	1:B:293:VAL:O	2.74	0.41
1:B:262:PHE:CZ	1:B:314:VAL:CA	3.04	0.41
1:B:265:THR:O	1:B:411:LYS:HD2	2.20	0.41
1:B:330:GLY:HA3	1:B:335:TYR:HD1	1.85	0.41
1:C:10:SER:HB3	1:C:57:PHE:HB3	2.03	0.41
1:C:19:PHE:CD1	1:C:347:THR:CG2	3.04	0.41
1:C:235:ASP:O	1:C:236:PRO:C	2.63	0.41
1:C:287:THR:HG21	1:C:380:VAL:O	2.19	0.41
1:C:299:PRO:O	1:C:300:ARG:C	2.64	0.41
1:C:301:PHE:O	1:C:304:TYR:HD1	2.04	0.41
1:C:351:GLY:C	1:C:352:TYR:CD2	2.98	0.41
1:C:385:PRO:O	1:C:395:MET:CB	2.68	0.41
1:C:401:GLY:HA3	1:C:403:GLN:NE2	2.35	0.41
1:C:465:THR:O	1:C:465:THR:HG23	2.21	0.41
1:A:134:TYR:CZ	1:A:143:GLN:HB2	2.55	0.41
1:A:137:PHE:CG	1:A:146:PHE:HZ	2.39	0.41
1:A:189:ASP:N	1:B:369:ARG:C	2.77	0.41
1:A:255:TYR:HD1	1:A:292:PHE:HD2	1.68	0.41
1:A:256:TYR:CB	1:A:257:PRO:CD	2.98	0.41
1:A:299:PRO:O	1:A:300:ARG:C	2.64	0.41
1:A:330:GLY:CA	1:A:335:TYR:HD1	2.34	0.41
1:A:338:GLY:O	1:A:340:ASP:N	2.53	0.41
1:B:61:TRP:CZ2	1:B:204:ARG:NE	2.85	0.41
1:B:134:TYR:CG	1:B:143:GLN:HB3	2.56	0.41
1:B:208:VAL:CG2	1:B:216:TRP:NE1	2.84	0.41
1:B:338:GLY:O	1:B:340:ASP:N	2.53	0.41
1:B:346:ALA:HB3	1:B:349:LEU:HB2	2.03	0.41
1:B:382:TYR:CE1	1:B:385:PRO:CD	2.94	0.41
1:C:55:MET:CG	1:C:57:PHE:CE2	2.97	0.41
1:C:295:ASN:O	1:C:298:ASN:N	2.53	0.41
1:C:371:TYR:O	1:C:374:SER:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:385:PRO:O	1:C:395:MET:HB3	2.20	0.41
1:A:188:TYR:CD1	1:B:368:ILE:CG2	2.52	0.40
1:A:450:VAL:HA	1:A:451:PRO:HD2	1.82	0.40
1:B:191:VAL:HG13	1:B:191:VAL:H	1.25	0.40
1:B:208:VAL:HG22	1:B:216:TRP:NE1	2.36	0.40
1:B:211:VAL:HG21	1:B:215:PHE:HB3	2.00	0.40
1:B:273:TYR:OH	1:C:244:ASN:HA	2.21	0.40
1:B:279:VAL:HG13	1:C:4:ALA:CA	2.44	0.40
1:B:315:ALA:C	1:B:318:ILE:HG23	2.45	0.40
1:B:390:ASP:CG	1:B:391:THR:H	2.28	0.40
1:B:426:SER:C	1:C:188:TYR:HD1	2.25	0.40
1:C:283:CYS:SG	1:C:289:LEU:HD11	2.61	0.40
1:C:390:ASP:CG	1:C:391:THR:H	2.28	0.40
1:A:46:ILE:HD13	1:A:46:ILE:HG21	1.78	0.40
1:A:190:TRP:CE3	1:A:191:VAL:HG13	2.49	0.40
1:A:193:SER:HA	1:B:404:ILE:N	2.22	0.40
1:A:197:ASN:ND2	1:B:400:ASP:OD1	2.50	0.40
1:B:12:TYR:CG	1:B:52:ILE:HG22	2.54	0.40
1:B:106:ALA:O	1:B:109:GLU:HB2	2.21	0.40
1:C:134:TYR:CG	1:C:143:GLN:HB3	2.56	0.40
1:C:184:LYS:HG3	1:C:185:ASN:H	1.86	0.40
1:C:238:TYR:HA	1:C:241:PRO:HG3	2.04	0.40
1:C:312:LYS:CG	1:C:361:LEU:HD13	2.49	0.40
1:C:319:ILE:CA	1:C:325:PRO:CB	2.72	0.40
1:A:180:LYS:HB3	1:B:12:TYR:CE2	2.52	0.40
1:A:190:TRP:CH2	1:B:375:LYS:NZ	2.84	0.40
1:A:204:ARG:CG	1:A:228:ILE:O	2.70	0.40
1:A:221:LYS:HA	1:B:434:THR:HG21	0.47	0.40
1:A:249:VAL:CB	1:B:477:SER:CB	2.94	0.40
1:A:249:VAL:HA	1:B:477:SER:CB	2.51	0.40
1:A:255:TYR:CE1	1:A:293:VAL:O	2.74	0.40
1:A:385:PRO:O	1:A:395:MET:HB3	2.20	0.40
1:B:272:LEU:HA	1:B:275:MET:HB3	2.02	0.40
1:B:448:GLY:HA3	1:C:184:LYS:HB2	0.96	0.40
1:C:186:GLU:HG3	1:C:187:TRP:N	2.36	0.40
1:C:208:VAL:CG2	1:C:216:TRP:NE1	2.84	0.40
1:C:262:PHE:CE1	1:C:314:VAL:HB	2.57	0.40
1:C:458:LEU:HD13	1:C:460:ARG:NH2	2.33	0.40
1:A:134:TYR:CG	1:A:143:GLN:HB3	2.56	0.40
1:A:190:TRP:HH2	1:B:375:LYS:HD3	1.57	0.40
1:A:205:ILE:HG13	1:A:229:GLY:CA	2.44	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:418:TYR:HD1	1:A:454:MET:HE3	1.82	0.40
1:A:458:LEU:HA	1:A:459:PRO:HD2	1.65	0.40
1:B:401:GLY:HA3	1:B:403:GLN:NE2	2.36	0.40
1:B:458:LEU:HD13	1:B:460:ARG:NH2	2.33	0.40
1:C:106:ALA:O	1:C:109:GLU:HB2	2.21	0.40
1:C:190:TRP:HZ3	1:C:219:TYR:OH	2.05	0.40
1:C:204:ARG:HH11	1:C:204:ARG:HG2	1.84	0.40
1:C:255:TYR:HD1	1:C:292:PHE:HD2	1.68	0.40
1:C:255:TYR:CE1	1:C:293:VAL:O	2.74	0.40
1:C:332:GLU:CG	1:C:333:GLN:H	2.30	0.40
1:C:387:ILE:HD13	1:C:387:ILE:HG21	1.37	0.40
1:C:418:TYR:HD1	1:C:454:MET:HE3	1.82	0.40
1:A:10:SER:HB3	1:A:57:PHE:HB3	2.03	0.40
1:A:224:GLY:N	1:B:434:THR:HB	2.36	0.40
1:A:287:THR:HG21	1:A:380:VAL:O	2.19	0.40
1:A:452:VAL:HG22	1:A:452:VAL:O	2.17	0.40
1:B:1:ALA:HB1	1:B:113:TYR:HE1	1.86	0.40
1:B:43:GLN:NE2	1:B:99:ASP:CG	2.79	0.40
1:B:122:HIS:ND1	1:B:173:LEU:CD2	2.77	0.40
1:B:253:PRO:HB2	1:B:275:MET:HE3	2.03	0.40
1:B:262:PHE:CE1	1:B:314:VAL:HB	2.57	0.40
1:B:283:CYS:SG	1:B:289:LEU:HD11	2.61	0.40
1:B:385:PRO:O	1:B:395:MET:HB3	2.20	0.40
1:C:152:ILE:HD11	1:C:166:LEU:CB	2.52	0.40
1:C:205:ILE:HG13	1:C:229:GLY:CA	2.44	0.40
1:C:472:LYS:O	1:C:473:ILE:CG2	2.66	0.40

All (135) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:PHE:C	1:C:25:SER:O[2_646]	0.53	1.67
1:A:149:PHE:CB	1:C:29:THR:OG1[2_646]	0.66	1.54
1:A:149:PHE:CD2	1:C:29:THR:CA[2_646]	0.70	1.50
1:A:165:TRP:O	1:C:27:THR:CA[2_646]	0.72	1.48
1:A:152:ILE:CA	1:C:26:THR:N[2_646]	0.76	1.44
1:A:152:ILE:CB	1:C:26:THR:OG1[2_646]	0.76	1.44
1:A:153:GLN:CG	1:C:24:GLY:O[2_646]	0.82	1.38
1:A:151:PHE:C	1:C:25:SER:C[2_646]	0.95	1.25
1:A:152:ILE:CB	1:C:26:THR:CB[2_646]	0.95	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:153:GLN:C	1:C:24:GLY:CA[2_646]	0.97	1.23
1:A:153:GLN:CB	1:C:24:GLY:O[2_646]	0.99	1.21
1:A:165:TRP:CB	1:C:27:THR:O[2_646]	0.99	1.21
1:A:165:TRP:CA	1:C:27:THR:CG2[2_646]	1.00	1.20
1:A:152:ILE:N	1:C:26:THR:N[2_646]	1.04	1.16
1:A:152:ILE:CG1	1:C:26:THR:OG1[2_646]	1.06	1.14
1:A:165:TRP:CA	1:C:27:THR:CB[2_646]	1.07	1.13
1:A:151:PHE:N	1:C:28:ALA:CB[2_646]	1.09	1.11
1:A:151:PHE:CZ	1:C:349:LEU:CG[2_646]	1.09	1.11
1:A:165:TRP:C	1:C:27:THR:CB[2_646]	1.10	1.10
1:A:149:PHE:CG	1:C:29:THR:CA[2_646]	1.11	1.09
1:A:152:ILE:N	1:C:25:SER:C[2_646]	1.13	1.07
1:A:153:GLN:CA	1:C:24:GLY:CA[2_646]	1.18	1.02
1:A:150:CYS:C	1:C:28:ALA:CA[2_646]	1.19	1.01
1:A:151:PHE:O	1:C:25:SER:C[2_646]	1.19	1.01
1:A:151:PHE:CE1	1:C:349:LEU:CG[2_646]	1.22	0.98
1:A:149:PHE:CD2	1:C:29:THR:C[2_646]	1.23	0.97
1:A:149:PHE:CB	1:C:29:THR:CB[2_646]	1.25	0.95
1:A:153:GLN:CA	1:C:24:GLY:C[2_646]	1.29	0.91
1:A:151:PHE:CA	1:C:25:SER:O[2_646]	1.30	0.90
1:A:165:TRP:C	1:C:27:THR:CA[2_646]	1.30	0.90
1:A:149:PHE:CA	1:C:29:THR:OG1[2_646]	1.32	0.88
1:A:165:TRP:O	1:C:27:THR:N[2_646]	1.32	0.88
1:A:150:CYS:O	1:C:28:ALA:N[2_646]	1.33	0.87
1:A:153:GLN:CB	1:C:24:GLY:C[2_646]	1.37	0.83
1:A:150:CYS:C	1:C:28:ALA:N[2_646]	1.42	0.78
1:A:150:CYS:CA	1:C:28:ALA:CA[2_646]	1.42	0.78
1:A:152:ILE:CG2	1:C:26:THR:OG1[2_646]	1.46	0.74
1:A:151:PHE:CE1	1:C:349:LEU:CB[2_646]	1.47	0.73
1:A:149:PHE:CE2	1:C:30:CYS:N[2_646]	1.48	0.72
1:A:151:PHE:O	1:C:25:SER:CA[2_646]	1.48	0.72
1:A:151:PHE:CZ	1:C:349:LEU:CD1[2_646]	1.48	0.72
1:A:152:ILE:N	1:C:25:SER:O[2_646]	1.49	0.71
1:A:150:CYS:C	1:C:28:ALA:CB[2_646]	1.50	0.70
1:A:151:PHE:O	1:C:25:SER:O[2_646]	1.50	0.70
1:A:153:GLN:O	1:C:23:ASP:O[2_646]	1.53	0.67
1:A:160:GLN:OE1	1:C:23:ASP:O[2_646]	1.54	0.66
1:A:152:ILE:CG1	1:C:26:THR:CB[2_646]	1.55	0.65
1:A:153:GLN:N	1:C:25:SER:N[2_646]	1.55	0.65
1:A:152:ILE:N	1:C:26:THR:CA[2_646]	1.58	0.62
1:A:128:ALA:CB	1:C:31:ASN:CB[2_646]	1.59	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:165:TRP:N	1:C:27:THR:CB[2_646]	1.61	0.59
1:A:152:ILE:C	1:C:26:THR:N[2_646]	1.62	0.58
1:A:153:GLN:O	1:C:24:GLY:CA[2_646]	1.63	0.57
1:A:165:TRP:C	1:C:27:THR:CG2[2_646]	1.64	0.56
1:A:153:GLN:O	1:C:24:GLY:N[2_646]	1.65	0.55
1:A:151:PHE:CD1	1:C:349:LEU:CA[2_646]	1.66	0.54
1:A:153:GLN:O	1:C:23:ASP:C[2_646]	1.66	0.54
1:A:130:SER:CB	1:C:31:ASN:OD1[2_646]	1.67	0.53
1:A:153:GLN:N	1:C:24:GLY:C[2_646]	1.67	0.53
1:A:165:TRP:C	1:C:27:THR:OG1[2_646]	1.69	0.51
1:A:152:ILE:CD1	1:C:26:THR:CB[2_646]	1.71	0.49
1:A:151:PHE:O	1:C:25:SER:CB[2_646]	1.72	0.48
1:A:152:ILE:CA	1:C:25:SER:C[2_646]	1.72	0.48
1:A:153:GLN:NE2	1:C:21:ARG:CD[2_646]	1.72	0.48
1:A:153:GLN:CG	1:C:24:GLY:C[2_646]	1.74	0.46
1:A:153:GLN:CB	1:C:24:GLY:CA[2_646]	1.75	0.45
1:A:149:PHE:CD2	1:C:29:THR:N[2_646]	1.76	0.44
1:A:152:ILE:CB	1:C:26:THR:CA[2_646]	1.76	0.44
1:A:165:TRP:CB	1:C:27:THR:C[2_646]	1.77	0.43
1:A:149:PHE:CE2	1:C:29:THR:C[2_646]	1.78	0.42
1:A:153:GLN:OE1	1:C:348:TRP:CD2[2_646]	1.80	0.40
1:A:151:PHE:CE1	1:C:349:LEU:CA[2_646]	1.81	0.39
1:A:152:ILE:CB	1:C:26:THR:CG2[2_646]	1.81	0.39
1:A:165:TRP:O	1:C:27:THR:CB[2_646]	1.81	0.39
1:A:151:PHE:N	1:C:28:ALA:CA[2_646]	1.82	0.38
1:A:149:PHE:C	1:C:29:THR:N[2_646]	1.83	0.37
1:A:149:PHE:CG	1:C:29:THR:CB[2_646]	1.84	0.36
1:A:152:ILE:CA	1:C:26:THR:CA[2_646]	1.84	0.36
1:A:130:SER:O	1:C:34:ASP:OD1[2_646]	1.85	0.35
1:A:150:CYS:CA	1:C:28:ALA:CB[2_646]	1.86	0.34
1:A:153:GLN:C	1:C:24:GLY:N[2_646]	1.86	0.34
1:A:152:ILE:CA	1:C:26:THR:OG1[2_646]	1.87	0.33
1:A:149:PHE:CB	1:C:29:THR:CA[2_646]	1.88	0.32
1:A:151:PHE:C	1:C:26:THR:N[2_646]	1.88	0.32
1:A:165:TRP:CA	1:C:27:THR:CA[2_646]	1.88	0.32
1:A:154:ASN:N	1:C:24:GLY:CA[2_646]	1.89	0.31
1:A:149:PHE:CD2	1:C:30:CYS:N[2_646]	1.90	0.30
1:A:128:ALA:O	1:C:31:ASN:ND2[2_646]	1.91	0.29
1:A:151:PHE:CB	1:C:348:TRP:CE2[2_646]	1.91	0.29
1:A:152:ILE:CB	1:C:26:THR:N[2_646]	1.91	0.29
1:A:150:CYS:O	1:C:27:THR:C[2_646]	1.93	0.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:PHE:N	1:C:28:ALA:N[2_646]	1.93	0.27
1:A:152:ILE:N	1:C:26:THR:C[2_646]	1.93	0.27
1:A:166:LEU:N	1:C:27:THR:CG2[2_646]	1.93	0.27
1:A:153:GLN:OE1	1:C:348:TRP:CG[2_646]	1.94	0.26
1:A:167:GLY:O	1:C:349:LEU:O[2_646]	1.94	0.26
1:A:151:PHE:CB	1:C:348:TRP:CZ2[2_646]	1.96	0.24
1:A:154:ASN:CB	1:C:22:THR:O[2_646]	1.96	0.24
1:A:130:SER:CA	1:C:31:ASN:OD1[2_646]	1.97	0.23
1:A:149:PHE:CG	1:C:29:THR:N[2_646]	1.97	0.23
1:A:149:PHE:N	1:C:29:THR:OG1[2_646]	1.97	0.23
1:A:150:CYS:N	1:C:28:ALA:CA[2_646]	2.01	0.19
1:A:149:PHE:O	1:C:29:THR:N[2_646]	2.03	0.17
1:A:165:TRP:CG	1:C:27:THR:O[2_646]	2.04	0.16
1:A:166:LEU:N	1:C:27:THR:OG1[2_646]	2.04	0.16
1:A:150:CYS:O	1:C:28:ALA:CA[2_646]	2.07	0.13
1:A:153:GLN:CA	1:C:24:GLY:O[2_646]	2.07	0.13
1:A:165:TRP:CA	1:C:27:THR:O[2_646]	2.07	0.13
1:A:151:PHE:O	1:C:348:TRP:NE1[2_646]	2.09	0.11
1:A:152:ILE:CG2	1:C:26:THR:CG2[2_646]	2.09	0.11
1:A:165:TRP:CB	1:C:27:THR:CG2[2_646]	2.09	0.11
1:A:165:TRP:O	1:C:26:THR:C[2_646]	2.09	0.11
1:A:151:PHE:CB	1:C:348:TRP:NE1[2_646]	2.10	0.10
1:A:152:ILE:N	1:C:27:THR:N[2_646]	2.10	0.10
1:A:130:SER:N	1:C:31:ASN:OD1[2_646]	2.11	0.09
1:A:149:PHE:CE2	1:C:29:THR:CA[2_646]	2.11	0.09
1:A:152:ILE:CG1	1:C:27:THR:N[2_646]	2.11	0.09
1:A:153:GLN:CD	1:C:348:TRP:NE1[2_646]	2.12	0.08
1:A:149:PHE:CD2	1:C:29:THR:CB[2_646]	2.13	0.07
1:A:153:GLN:CD	1:C:348:TRP:CE2[2_646]	2.14	0.06
1:A:166:LEU:N	1:C:27:THR:CB[2_646]	2.14	0.06
1:A:152:ILE:CG2	1:C:26:THR:CB[2_646]	2.15	0.05
1:A:153:GLN:NE2	1:C:348:TRP:CE2[2_646]	2.15	0.05
1:A:149:PHE:CG	1:C:29:THR:OG1[2_646]	2.16	0.04
1:A:152:ILE:CG1	1:C:26:THR:CA[2_646]	2.16	0.04
1:A:130:SER:O	1:C:34:ASP:CG[2_646]	2.17	0.03
1:A:151:PHE:N	1:C:25:SER:O[2_646]	2.17	0.03
1:A:152:ILE:CA	1:C:26:THR:CB[2_646]	2.17	0.03
1:A:151:PHE:CZ	1:C:349:LEU:CB[2_646]	2.18	0.02
1:A:153:GLN:CD	1:C:24:GLY:O[2_646]	2.18	0.02
1:A:128:ALA:C	1:C:31:ASN:CB[2_646]	2.19	0.01
1:A:150:CYS:N	1:C:29:THR:N[2_646]	2.19	0.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:ILE:O	1:C:26:THR:N[2_646]	2.19	0.01
1:A:165:TRP:O	1:C:27:THR:C[2_646]	2.19	0.01
1:A:165:TRP:CA	1:C:27:THR:C[2_646]	2.19	0.01

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	400/400 (100%)	244 (61%)	156 (39%)	0	1
1	B	400/400 (100%)	244 (61%)	156 (39%)	0	1
1	C	400/400 (100%)	244 (61%)	156 (39%)	0	1
All	All	1200/1200 (100%)	732 (61%)	468 (39%)	0	1

All (468) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	ARG
1	A	8	SER
1	A	9	GLN
1	A	10	SER
1	A	11	ILE
1	A	14	LEU
1	A	15	LEU
1	A	17	ASP
1	A	21	ARG
1	A	23	ASP
1	A	27	THR

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Mol	Chain	Res	Type
1	A	31	ASN
1	A	35	GLN
1	A	42	TRP
1	A	48	LYS
1	A	50	ASP
1	A	55	MET
1	A	57	PHE
1	A	62	ILE
1	A	68	GLN
1	A	69	LEU
1	A	72	ASP
1	A	77	ASP
1	A	80	THR
1	A	84	GLN
1	A	90	LEU
1	A	91	ASN
1	A	92	GLU
1	A	96	THR
1	A	105	SER
1	A	107	LEU
1	A	108	HIS
1	A	110	ARG
1	A	114	LEU
1	A	115	MET
1	A	121	ASN
1	A	122	HIS
1	A	123	MET
1	A	126	ASP
1	A	139	PRO
1	A	152	ILE
1	A	156	GLU
1	A	157	ASP
1	A	158	GLN
1	A	161	VAL
1	A	162	GLU
1	A	163	ASP
1	A	164	CYS
1	A	166	LEU
1	A	172	SER
1	A	176	LEU
1	A	178	THR
1	A	180	LYS

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Mol	Chain	Res	Type
1	A	181	ASP
1	A	183	VAL
1	A	184	LYS
1	A	186	GLU
1	A	193	SER
1	A	194	LEU
1	A	195	VAL
1	A	197	ASN
1	A	199	SER
1	A	200	ILE
1	A	205	ILE
1	A	206	ASP
1	A	207	THR
1	A	208	VAL
1	A	210	HIS
1	A	212	GLN
1	A	213	LYS
1	A	214	ASP
1	A	216	TRP
1	A	228	ILE
1	A	230	GLU
1	A	235	ASP
1	A	238	TYR
1	A	246	MET
1	A	249	VAL
1	A	250	LEU
1	A	251	ASN
1	A	252	TYR
1	A	254	ILE
1	A	255	TYR
1	A	259	LEU
1	A	264	SER
1	A	265	THR
1	A	266	SER
1	A	268	SER
1	A	269	MET
1	A	272	LEU
1	A	274	ASN
1	A	276	ILE
1	A	283	CYS
1	A	285	ASP
1	A	286	SER

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Mol	Chain	Res	Type
1	A	287	THR
1	A	289	LEU
1	A	291	THR
1	A	292	PHE
1	A	300	ARG
1	A	305	THR
1	A	307	ASP
1	A	308	ILE
1	A	314	VAL
1	A	317	PHE
1	A	318	ILE
1	A	320	LEU
1	A	322	ASP
1	A	324	LEU
1	A	325	PRO
1	A	333	GLN
1	A	341	PRO
1	A	347	THR
1	A	348	TRP
1	A	349	LEU
1	A	361	LEU
1	A	369	ARG
1	A	370	ASN
1	A	375	LYS
1	A	376	ASP
1	A	381	THR
1	A	389	ASP
1	A	395	MET
1	A	399	THR
1	A	402	SER
1	A	404	ILE
1	A	405	VAL
1	A	407	ILE
1	A	408	LEU
1	A	417	SER
1	A	419	THR
1	A	420	LEU
1	A	421	SER
1	A	422	LEU
1	A	431	GLN
1	A	432	GLN
1	A	434	THR

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Mol	Chain	Res	Type
1	A	437	ILE
1	A	440	THR
1	A	442	VAL
1	A	443	THR
1	A	444	VAL
1	A	447	ASP
1	A	449	ASN
1	A	450	VAL
1	A	452	VAL
1	A	454	MET
1	A	462	LEU
1	A	464	PRO
1	A	465	THR
1	A	466	GLU
1	A	467	LYS
1	A	471	SER
1	A	473	ILE
1	A	474	CYS
1	A	476	ASP
1	B	7	ARG
1	B	8	SER
1	B	9	GLN
1	B	10	SER
1	B	11	ILE
1	B	14	LEU
1	B	15	LEU
1	B	17	ASP
1	B	21	ARG
1	B	23	ASP
1	B	27	THR
1	B	31	ASN
1	B	35	GLN
1	B	42	TRP
1	B	48	LYS
1	B	50	ASP
1	B	55	MET
1	B	57	PHE
1	B	62	ILE
1	B	68	GLN
1	B	69	LEU
1	B	72	ASP
1	B	77	ASP

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Mol	Chain	Res	Type
1	B	80	THR
1	B	84	GLN
1	B	90	LEU
1	B	91	ASN
1	B	92	GLU
1	B	96	THR
1	B	105	SER
1	B	107	LEU
1	B	108	HIS
1	B	110	ARG
1	B	114	LEU
1	B	115	MET
1	B	121	ASN
1	B	122	HIS
1	B	123	MET
1	B	126	ASP
1	B	139	PRO
1	B	152	ILE
1	B	156	GLU
1	B	157	ASP
1	B	158	GLN
1	B	161	VAL
1	B	162	GLU
1	B	163	ASP
1	B	164	CYS
1	B	166	LEU
1	B	172	SER
1	B	176	LEU
1	B	178	THR
1	B	180	LYS
1	B	181	ASP
1	B	183	VAL
1	B	184	LYS
1	B	186	GLU
1	B	193	SER
1	B	194	LEU
1	B	195	VAL
1	B	197	ASN
1	B	199	SER
1	B	200	ILE
1	B	205	ILE
1	B	206	ASP

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Mol	Chain	Res	Type
1	B	207	THR
1	B	208	VAL
1	B	210	HIS
1	B	212	GLN
1	B	213	LYS
1	B	214	ASP
1	B	216	TRP
1	B	228	ILE
1	B	230	GLU
1	B	235	ASP
1	B	238	TYR
1	B	246	MET
1	B	249	VAL
1	B	250	LEU
1	B	251	ASN
1	B	252	TYR
1	B	254	ILE
1	B	255	TYR
1	B	259	LEU
1	B	264	SER
1	B	265	THR
1	B	266	SER
1	B	268	SER
1	B	269	MET
1	B	272	LEU
1	B	274	ASN
1	B	276	ILE
1	B	283	CYS
1	B	285	ASP
1	B	286	SER
1	B	287	THR
1	B	289	LEU
1	B	291	THR
1	B	292	PHE
1	B	300	ARG
1	B	305	THR
1	B	307	ASP
1	B	308	ILE
1	B	314	VAL
1	B	317	PHE
1	B	318	ILE
1	B	320	LEU

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Mol	Chain	Res	Type
1	B	322	ASP
1	B	324	LEU
1	B	325	PRO
1	B	333	GLN
1	B	341	PRO
1	B	347	THR
1	B	348	TRP
1	B	349	LEU
1	B	361	LEU
1	B	369	ARG
1	B	370	ASN
1	B	375	LYS
1	B	376	ASP
1	B	381	THR
1	B	389	ASP
1	B	395	MET
1	B	399	THR
1	B	402	SER
1	B	404	ILE
1	B	405	VAL
1	B	407	ILE
1	B	408	LEU
1	B	417	SER
1	B	419	THR
1	B	420	LEU
1	B	421	SER
1	B	422	LEU
1	B	431	GLN
1	B	432	GLN
1	B	434	THR
1	B	437	ILE
1	B	440	THR
1	B	442	VAL
1	B	443	THR
1	B	444	VAL
1	B	447	ASP
1	B	449	ASN
1	B	450	VAL
1	B	452	VAL
1	B	454	MET
1	B	462	LEU
1	B	464	PRO

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Mol	Chain	Res	Type
1	B	465	THR
1	B	466	GLU
1	B	467	LYS
1	B	471	SER
1	B	473	ILE
1	B	474	CYS
1	B	476	ASP
1	C	7	ARG
1	C	8	SER
1	C	9	GLN
1	C	10	SER
1	C	11	ILE
1	C	14	LEU
1	C	15	LEU
1	C	17	ASP
1	C	21	ARG
1	C	23	ASP
1	C	27	THR
1	C	31	ASN
1	C	35	GLN
1	C	42	TRP
1	C	48	LYS
1	C	50	ASP
1	C	55	MET
1	C	57	PHE
1	C	62	ILE
1	C	68	GLN
1	C	69	LEU
1	C	72	ASP
1	C	77	ASP
1	C	80	THR
1	C	84	GLN
1	C	90	LEU
1	C	91	ASN
1	C	92	GLU
1	C	96	THR
1	C	105	SER
1	C	107	LEU
1	C	108	HIS
1	C	110	ARG
1	C	114	LEU
1	C	115	MET

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Mol	Chain	Res	Type
1	C	121	ASN
1	C	122	HIS
1	C	123	MET
1	C	126	ASP
1	C	139	PRO
1	C	152	ILE
1	C	156	GLU
1	C	157	ASP
1	C	158	GLN
1	C	161	VAL
1	C	162	GLU
1	C	163	ASP
1	C	164	CYS
1	C	166	LEU
1	C	172	SER
1	C	176	LEU
1	C	178	THR
1	C	180	LYS
1	C	181	ASP
1	C	183	VAL
1	C	184	LYS
1	C	186	GLU
1	C	193	SER
1	C	194	LEU
1	C	195	VAL
1	C	197	ASN
1	C	199	SER
1	C	200	ILE
1	C	205	ILE
1	C	206	ASP
1	C	207	THR
1	C	208	VAL
1	C	210	HIS
1	C	212	GLN
1	C	213	LYS
1	C	214	ASP
1	C	216	TRP
1	C	228	ILE
1	C	230	GLU
1	C	235	ASP
1	C	238	TYR
1	C	246	MET

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Mol	Chain	Res	Type
1	C	249	VAL
1	C	250	LEU
1	C	251	ASN
1	C	252	TYR
1	C	254	ILE
1	C	255	TYR
1	C	259	LEU
1	C	264	SER
1	C	265	THR
1	C	266	SER
1	C	268	SER
1	C	269	MET
1	C	272	LEU
1	C	274	ASN
1	C	276	ILE
1	C	283	CYS
1	C	285	ASP
1	C	286	SER
1	C	287	THR
1	C	289	LEU
1	C	291	THR
1	C	292	PHE
1	C	300	ARG
1	C	305	THR
1	C	307	ASP
1	C	308	ILE
1	C	314	VAL
1	C	317	PHE
1	C	318	ILE
1	C	320	LEU
1	C	322	ASP
1	C	324	LEU
1	C	325	PRO
1	C	333	GLN
1	C	341	PRO
1	C	347	THR
1	C	348	TRP
1	C	349	LEU
1	C	361	LEU
1	C	369	ARG
1	C	370	ASN
1	C	375	LYS

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Mol	Chain	Res	Type
1	C	376	ASP
1	C	381	THR
1	C	389	ASP
1	C	395	MET
1	C	399	THR
1	C	402	SER
1	C	404	ILE
1	C	405	VAL
1	C	407	ILE
1	C	408	LEU
1	C	417	SER
1	C	419	THR
1	C	420	LEU
1	C	421	SER
1	C	422	LEU
1	C	431	GLN
1	C	432	GLN
1	C	434	THR
1	C	437	ILE
1	C	440	THR
1	C	442	VAL
1	C	443	THR
1	C	444	VAL
1	C	447	ASP
1	C	449	ASN
1	C	450	VAL
1	C	452	VAL
1	C	454	MET
1	C	462	LEU
1	C	464	PRO
1	C	465	THR
1	C	466	GLU
1	C	467	LYS
1	C	471	SER
1	C	473	ILE
1	C	474	CYS
1	C	476	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (65) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	31	ASN

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Mol	Chain	Res	Type
1	A	35	GLN
1	A	68	GLN
1	A	71	GLN
1	A	84	GLN
1	A	91	ASN
1	A	143	GLN
1	A	147	HIS
1	A	158	GLN
1	A	160	GLN
1	A	185	ASN
1	A	210	HIS
1	A	212	GLN
1	A	244	ASN
1	A	296	HIS
1	A	298	ASN
1	A	306	ASN
1	A	321	ASN
1	A	334	HIS
1	A	339	ASN
1	A	384	ASN
1	A	403	GLN
1	A	410	ASN
1	A	431	GLN
1	B	31	ASN
1	B	35	GLN
1	B	68	GLN
1	B	71	GLN
1	B	91	ASN
1	B	147	HIS
1	B	158	GLN
1	B	160	GLN
1	B	210	HIS
1	B	244	ASN
1	B	274	ASN
1	B	296	HIS
1	B	298	ASN
1	B	306	ASN
1	B	321	ASN
1	B	334	HIS
1	B	339	ASN
1	B	384	ASN
1	B	403	GLN

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Mol	Chain	Res	Type
1	B	410	ASN
1	B	431	GLN
1	C	31	ASN
1	C	35	GLN
1	C	68	GLN
1	C	71	GLN
1	C	91	ASN
1	C	147	HIS
1	C	158	GLN
1	C	160	GLN
1	C	185	ASN
1	C	210	HIS
1	C	296	HIS
1	C	298	ASN
1	C	306	ASN
1	C	321	ASN
1	C	334	HIS
1	C	339	ASN
1	C	384	ASN
1	C	403	GLN
1	C	410	ASN
1	C	431	GLN

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](#)

Of 3 ligands modelled in this entry, 3 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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
1	A	2
1	B	2
1	C	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	208:VAL	C	209:LYS	N	1.17
1	A	458:LEU	C	459:PRO	N	1.17
1	B	208:VAL	C	209:LYS	N	1.17
1	B	458:LEU	C	459:PRO	N	1.17
1	C	208:VAL	C	209:LYS	N	1.17
1	C	458:LEU	C	459:PRO	N	1.17

6 Fit of model and data

6.1 Protein, DNA and RNA chains

EDS was not executed - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.