



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 07:06 AM UTC

PDB ID : 3LVG / pdb_00003lvg
Title : Crystal structure of a clathrin heavy chain and clathrin light chain complex
Authors : Wilbur, J.D.; Hwang, P.K.; Ybe, J.A.; Lane, M.; Sellers, B.D.; Jacobson, M.P.;
Fletterick, R.J.; Brodsky, F.M.
Deposited on : 2010-02-20
Resolution : 7.94 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)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

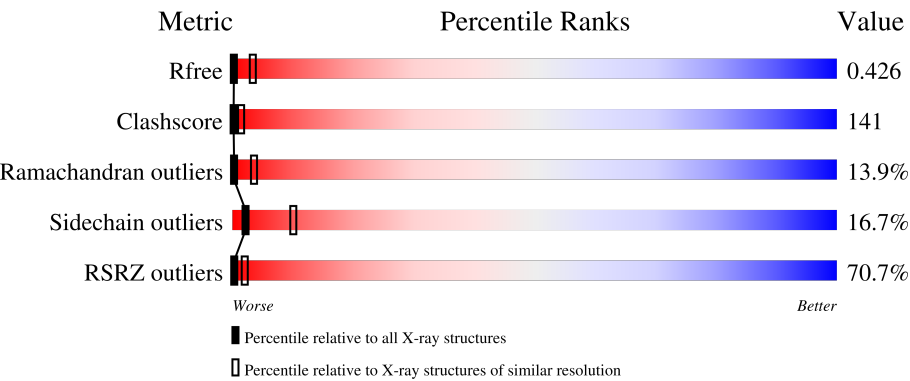
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 7.94 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))
R_{free}	180053	1168 (11.50-4.00)
Clashscore	190562	1001 (11.50-4.06)
Ramachandran outliers	187476	1055 (11.50-4.00)
Sidechain outliers	187428	1018 (11.50-4.00)
RSRZ outliers	180081	1162 (11.50-4.00)

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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	624	66% 11% 48% 23% 7% 11%
1	B	624	65% 10% 49% 24% 6% 11%
1	C	624	57% 11% 48% 23% 7% 11%
2	D	190	26% 34% 44% 15% 5%
2	E	190	26% 15% 29% 12% 5% 39%

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Mol	Chain	Length	Quality of chain
2	F	190	33% 15% 35% 15% . 31%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 16504 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 Clathrin heavy chain 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	553	Total	C	N	O	S	0	0	0
			4543	2896	767	855	25			
1	B	553	Total	C	N	O	S	0	0	0
			4543	2896	767	855	25			
1	C	553	Total	C	N	O	S	0	0	0
			4543	2896	767	855	25			

There are 66 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1052	MET	-	expression tag	UNP P49951
A	1053	GLY	-	expression tag	UNP P49951
A	1054	SER	-	expression tag	UNP P49951
A	1055	SER	-	expression tag	UNP P49951
A	1056	HIS	-	expression tag	UNP P49951
A	1057	HIS	-	expression tag	UNP P49951
A	1058	HIS	-	expression tag	UNP P49951
A	1059	HIS	-	expression tag	UNP P49951
A	1060	HIS	-	expression tag	UNP P49951
A	1061	HIS	-	expression tag	UNP P49951
A	1062	SER	-	expression tag	UNP P49951
A	1063	SER	-	expression tag	UNP P49951
A	1064	GLY	-	expression tag	UNP P49951
A	1065	LEU	-	expression tag	UNP P49951
A	1066	VAL	-	expression tag	UNP P49951
A	1067	PRO	-	expression tag	UNP P49951
A	1068	ARG	-	expression tag	UNP P49951
A	1069	GLY	-	expression tag	UNP P49951
A	1070	SER	-	expression tag	UNP P49951
A	1071	HIS	-	expression tag	UNP P49951
A	1072	MET	-	expression tag	UNP P49951
A	1073	LEU	-	expression tag	UNP P49951
B	1052	MET	-	expression tag	UNP P49951

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Chain	Residue	Modelled	Actual	Comment	Reference
B	1053	GLY	-	expression tag	UNP P49951
B	1054	SER	-	expression tag	UNP P49951
B	1055	SER	-	expression tag	UNP P49951
B	1056	HIS	-	expression tag	UNP P49951
B	1057	HIS	-	expression tag	UNP P49951
B	1058	HIS	-	expression tag	UNP P49951
B	1059	HIS	-	expression tag	UNP P49951
B	1060	HIS	-	expression tag	UNP P49951
B	1061	HIS	-	expression tag	UNP P49951
B	1062	SER	-	expression tag	UNP P49951
B	1063	SER	-	expression tag	UNP P49951
B	1064	GLY	-	expression tag	UNP P49951
B	1065	LEU	-	expression tag	UNP P49951
B	1066	VAL	-	expression tag	UNP P49951
B	1067	PRO	-	expression tag	UNP P49951
B	1068	ARG	-	expression tag	UNP P49951
B	1069	GLY	-	expression tag	UNP P49951
B	1070	SER	-	expression tag	UNP P49951
B	1071	HIS	-	expression tag	UNP P49951
B	1072	MET	-	expression tag	UNP P49951
B	1073	LEU	-	expression tag	UNP P49951
C	1052	MET	-	expression tag	UNP P49951
C	1053	GLY	-	expression tag	UNP P49951
C	1054	SER	-	expression tag	UNP P49951
C	1055	SER	-	expression tag	UNP P49951
C	1056	HIS	-	expression tag	UNP P49951
C	1057	HIS	-	expression tag	UNP P49951
C	1058	HIS	-	expression tag	UNP P49951
C	1059	HIS	-	expression tag	UNP P49951
C	1060	HIS	-	expression tag	UNP P49951
C	1061	HIS	-	expression tag	UNP P49951
C	1062	SER	-	expression tag	UNP P49951
C	1063	SER	-	expression tag	UNP P49951
C	1064	GLY	-	expression tag	UNP P49951
C	1065	LEU	-	expression tag	UNP P49951
C	1066	VAL	-	expression tag	UNP P49951
C	1067	PRO	-	expression tag	UNP P49951
C	1068	ARG	-	expression tag	UNP P49951
C	1069	GLY	-	expression tag	UNP P49951
C	1070	SER	-	expression tag	UNP P49951
C	1071	HIS	-	expression tag	UNP P49951
C	1072	MET	-	expression tag	UNP P49951

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Chain	Residue	Modelled	Actual	Comment	Reference
C	1073	LEU	-	expression tag	UNP P49951

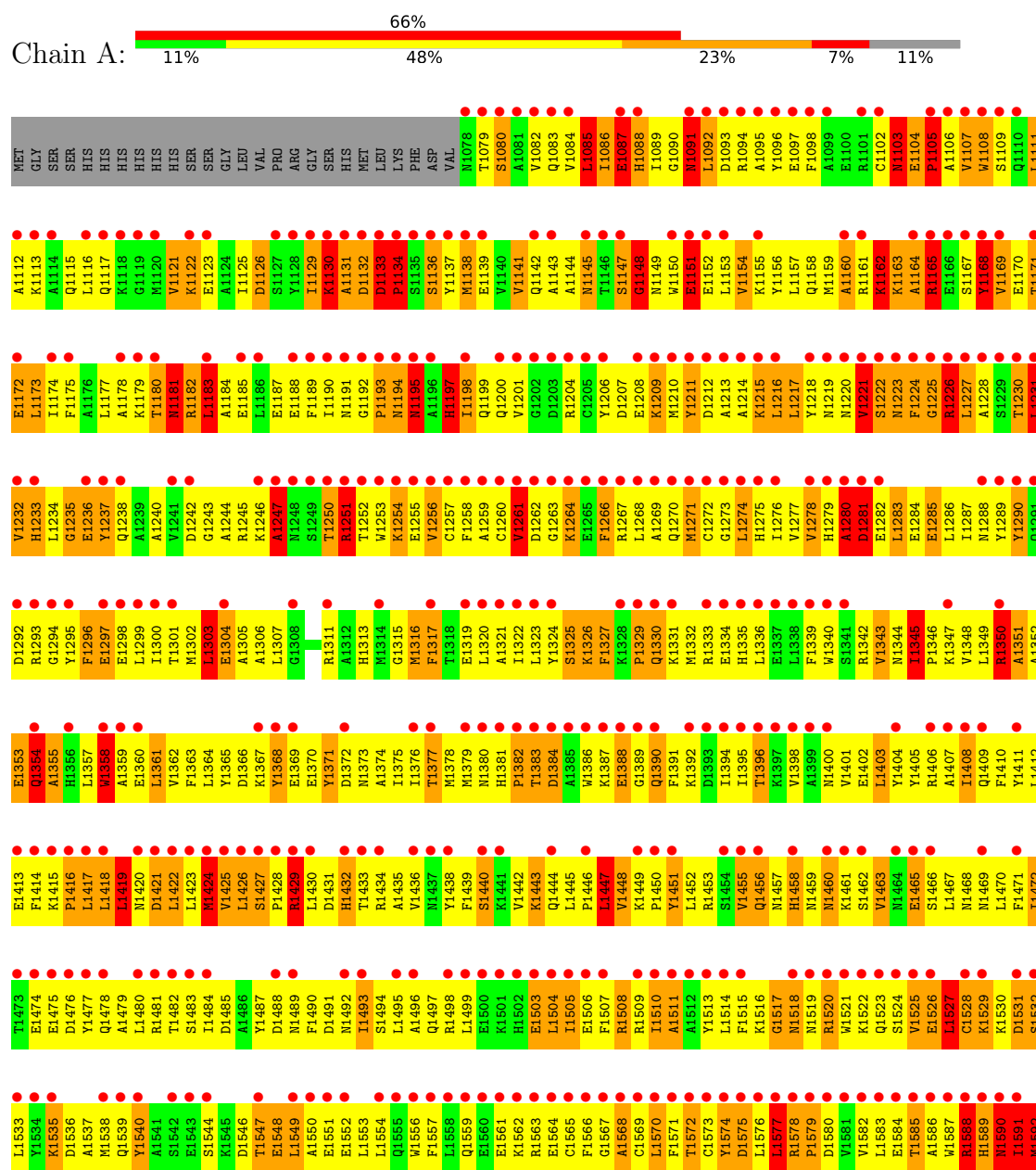
- Molecule 2 is a protein called Clathrin light chain B.

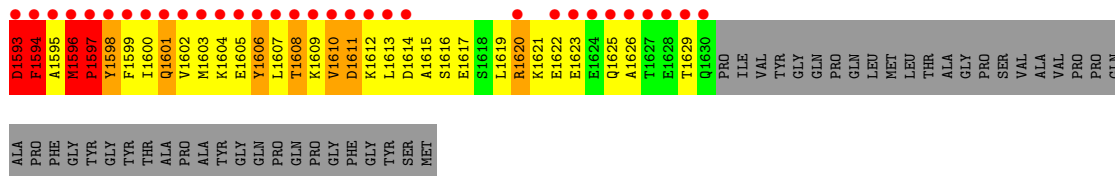
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	D	180	Total	C	N	O	S	0	0	0
			1146	690	227	228	1			
2	E	116	Total	C	N	O	S	0	0	0
			823	497	163	162	1			
2	F	132	Total	C	N	O	S	0	0	0
			906	546	179	180	1			

3 Residue-property plots

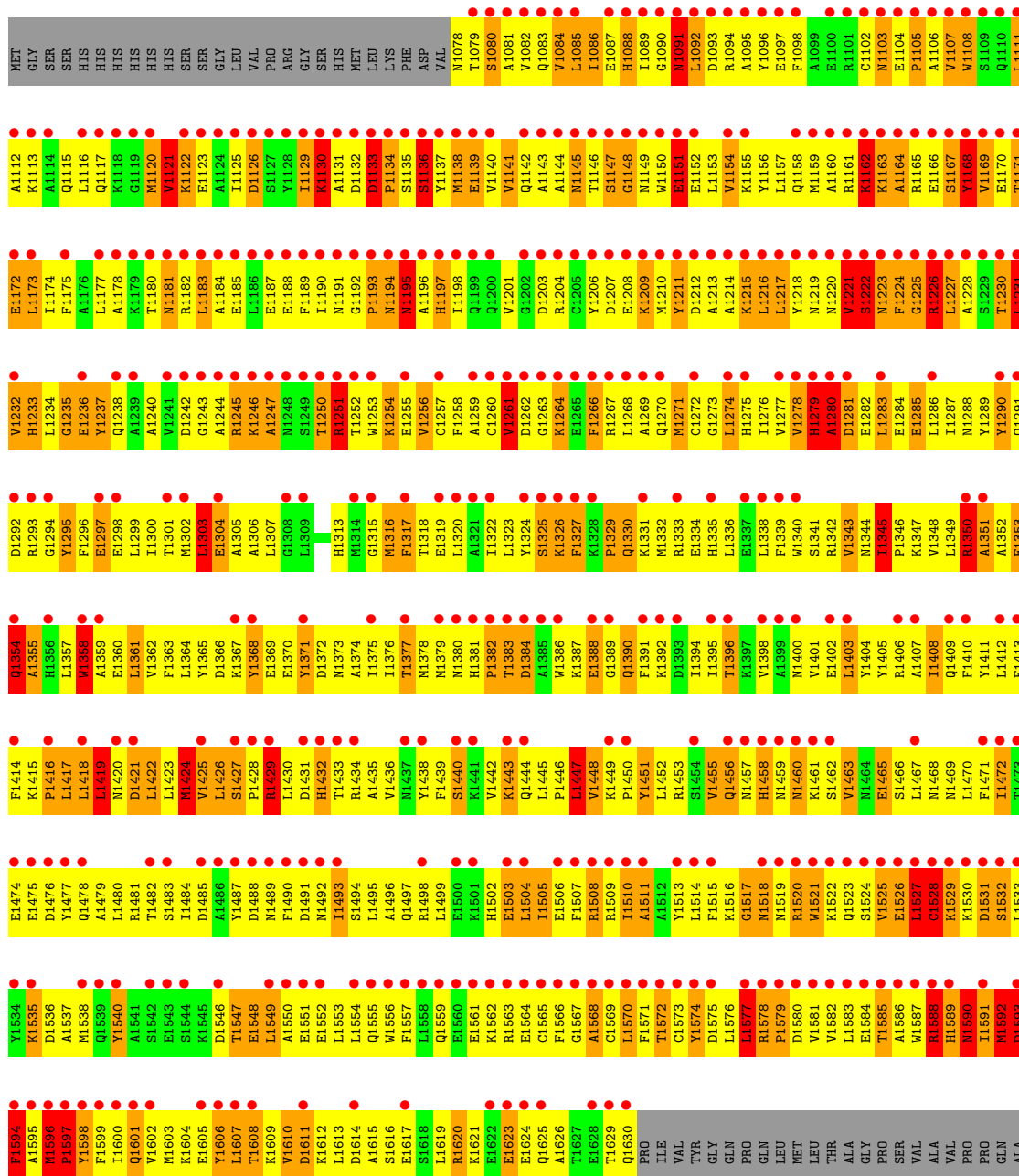
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: Clathrin heavy chain 1

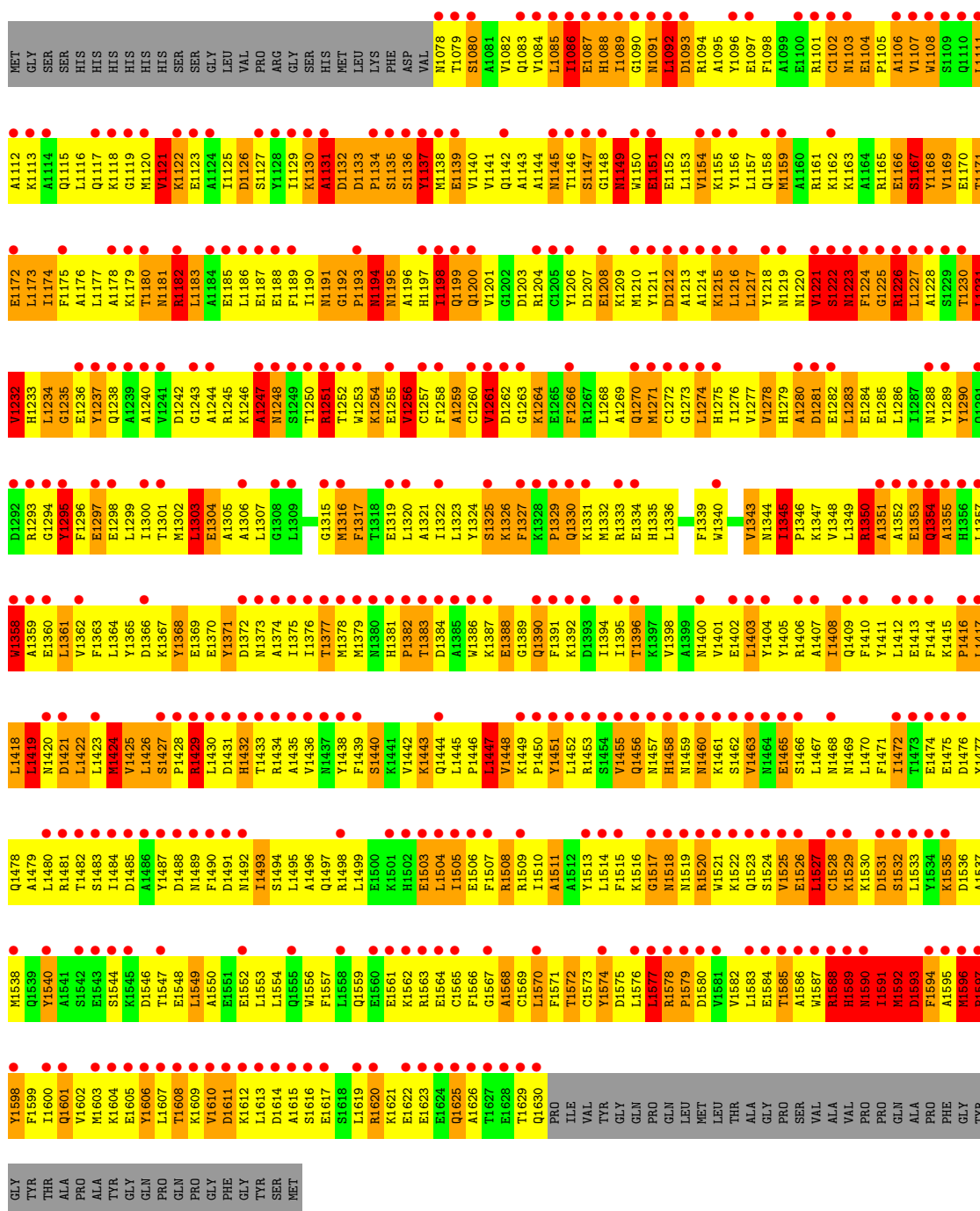




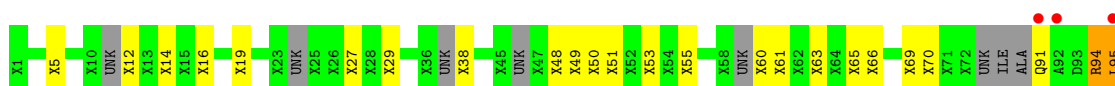
• Molecule 1: Clathrin heavy chain 1

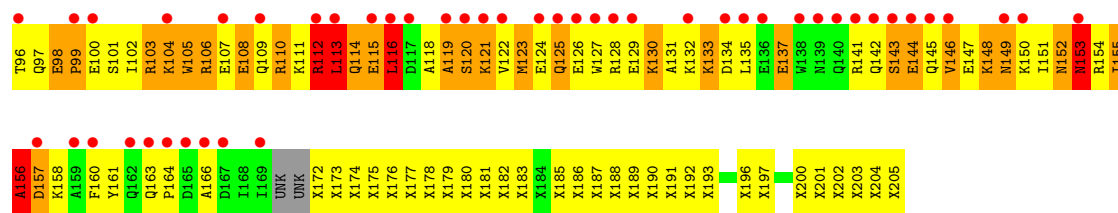


• Molecule 1: Clathrin heavy chain 1

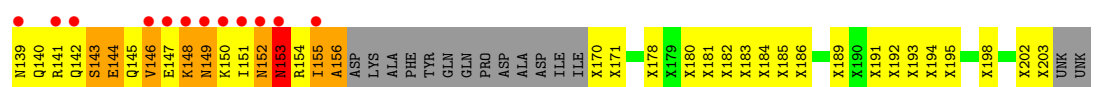
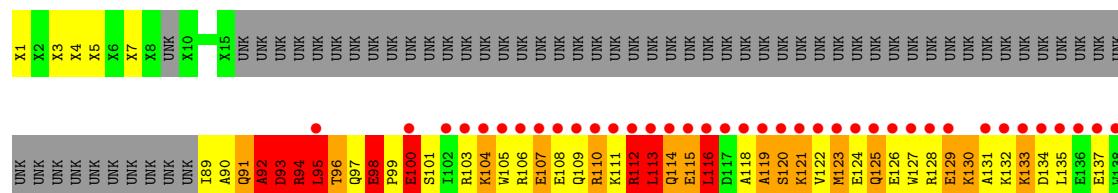


• Molecule 2: Clathrin light chain B

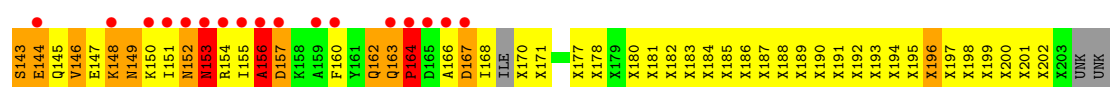
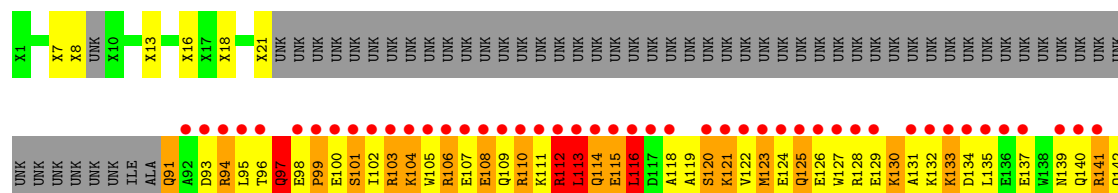




• Molecule 2: Clathrin light chain B



• Molecule 2: Clathrin light chain B



4 Data and refinement statistics

Property	Value	Source
Space group	I 41 2 2	Depositor
Cell constants a, b, c, α , β , γ	228.56Å 228.56Å 710.32Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	100.00 – 7.94 100.00 – 7.94	Depositor EDS
% Data completeness (in resolution range)	99.6 (100.00-7.94) 99.6 (100.00-7.94)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.97 (at 5.12Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.419 , 0.425 0.423 , 0.426	Depositor DCC
R_{free} test set	1304 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	310.7	Xtriage
Anisotropy	0.082	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.43 , 486.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.30$, $\langle L^2 \rangle = 0.15$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.77	EDS
Total number of atoms	16504	wwPDB-VP
Average B, all atoms (Å ²)	295.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.39% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	1.25	41/4638 (0.9%)	1.91	171/6266 (2.7%)
1	B	1.22	28/4638 (0.6%)	1.84	156/6266 (2.5%)
1	C	1.23	26/4638 (0.6%)	1.70	130/6266 (2.1%)
2	D	1.00	2/647 (0.3%)	1.65	17/866 (2.0%)
2	E	0.87	2/589 (0.3%)	1.69	19/785 (2.4%)
2	F	0.99	2/642 (0.3%)	1.74	21/859 (2.4%)
All	All	1.20	101/15792 (0.6%)	1.81	514/21308 (2.4%)

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	1	8
1	B	0	3
1	C	2	3
2	F	0	1
All	All	3	15

All (101) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1162	LYS	C-O	-33.40	0.85	1.24
1	C	1182	ARG	C-O	32.59	1.56	1.24
1	C	1247	ALA	CA-C	30.70	1.94	1.52
1	C	1248	ASN	N-CA	28.62	1.80	1.46
1	A	1222	SER	C-O	26.82	1.57	1.24
1	C	1136	SER	C-O	-26.29	0.90	1.24
1	A	1162	LYS	CA-C	25.73	1.86	1.52
1	B	1280	ALA	C-O	23.83	1.54	1.24
1	B	1279	HIS	C-O	-22.85	0.95	1.24
1	A	1162	LYS	C-O	-19.96	0.99	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1222	SER	C-O	19.20	1.48	1.24
1	A	1281	ASP	N-CA	17.68	1.69	1.46
1	B	1279	HIS	CA-C	16.62	1.75	1.52
1	C	1136	SER	CA-C	16.21	1.74	1.52
1	A	1223	ASN	N-CA	16.03	1.70	1.46
1	B	1280	ALA	N-CA	15.82	1.66	1.46
1	A	1574	TYR	CA-C	15.38	1.72	1.52
1	C	1247	ALA	C-O	-14.99	1.05	1.24
1	A	1103	ASN	C-O	14.71	1.45	1.23
1	B	1281	ASP	N-CA	14.64	1.66	1.46
1	A	1280	ALA	CA-C	14.40	1.75	1.52
1	A	1222	SER	C-N	14.12	1.54	1.33
1	B	1280	ALA	C-N	13.28	1.51	1.33
1	A	1575	ASP	N-CA	13.14	1.63	1.46
1	B	1223	ASN	N-CA	13.06	1.66	1.46
1	C	1118	LYS	C-O	12.73	1.38	1.24
1	A	1222	SER	CA-C	12.37	1.69	1.52
1	A	1592	MET	C-O	-12.09	1.08	1.23
1	C	1592	MET	C-O	-11.98	1.08	1.23
1	B	1592	MET	C-O	-11.82	1.08	1.23
1	A	1163	LYS	N-CA	11.79	1.64	1.46
1	B	1280	ALA	CA-C	11.26	1.67	1.52
1	B	1222	SER	C-N	11.22	1.49	1.33
1	B	1197	HIS	C-O	11.09	1.36	1.23
1	A	1223	ASN	CA-CB	-10.82	1.37	1.53
1	B	1221	VAL	C-O	10.54	1.36	1.24
1	C	1136	SER	C-N	10.30	1.48	1.33
1	A	1197	HIS	CA-C	10.22	1.62	1.53
1	B	1223	ASN	CA-CB	-10.17	1.38	1.53
1	A	1103	ASN	CA-C	-9.91	1.38	1.52
1	A	1147	SER	CA-C	-9.36	1.40	1.52
1	A	1104	GLU	N-CA	-9.31	1.33	1.46
1	C	1223	ASN	CA-CB	-8.53	1.39	1.53
1	A	1104	GLU	CA-C	8.41	1.63	1.52
1	B	1222	SER	CA-C	8.41	1.64	1.52
1	C	1182	ARG	C-N	7.97	1.44	1.33
1	C	1137	TYR	CA-CB	-7.80	1.40	1.53
1	C	1137	TYR	CA-C	7.66	1.63	1.52
1	A	1148	GLY	N-CA	-7.53	1.34	1.45
1	B	1592	MET	CA-CB	-7.34	1.41	1.53
1	A	1592	MET	CA-CB	-7.31	1.42	1.53
1	A	1574	TYR	C-O	7.13	1.32	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	1132	ASP	N-CA	-7.08	1.36	1.46
1	B	1130	LYS	CA-C	7.06	1.62	1.52
1	B	1130	LYS	N-CA	7.04	1.55	1.46
1	C	1247	ALA	C-N	7.03	1.42	1.33
1	A	1130	LYS	CA-C	7.03	1.62	1.52
1	B	1121	VAL	CA-CB	-7.00	1.45	1.54
1	C	1592	MET	CA-CB	-6.99	1.42	1.53
1	A	1574	TYR	C-N	6.93	1.43	1.33
1	A	1130	LYS	N-CA	6.90	1.55	1.46
1	C	1136	SER	N-CA	-6.82	1.37	1.46
1	A	1129	ILE	C-O	-6.80	1.16	1.24
1	B	1129	ILE	C-O	-6.70	1.16	1.24
1	B	1134	PRO	N-CD	-6.69	1.38	1.47
1	C	1131	ALA	CA-C	-6.59	1.44	1.52
1	C	1183	LEU	N-CA	6.55	1.54	1.46
2	D	112	ARG	CA-CB	-6.55	1.45	1.53
1	A	1134	PRO	N-CD	-6.54	1.38	1.47
1	A	1280	ALA	C-N	6.48	1.42	1.33
1	C	1224	PHE	CA-C	-6.26	1.44	1.52
1	A	1162	LYS	C-N	6.23	1.42	1.33
2	F	157	ASP	N-CA	6.23	1.54	1.46
1	B	1224	PHE	CA-C	-6.21	1.45	1.52
1	A	1197	HIS	C-O	-6.17	1.14	1.23
1	A	1224	PHE	CA-C	-6.17	1.45	1.52
2	D	157	ASP	N-CA	6.14	1.54	1.46
1	B	1133	ASP	CA-CB	-6.11	1.43	1.53
1	C	1137	TYR	N-CA	6.09	1.54	1.46
1	A	1133	ASP	CA-CB	-6.03	1.44	1.53
1	A	1104	GLU	C-N	6.01	1.48	1.33
1	A	1429	ARG	CA-CB	-5.92	1.43	1.53
1	B	1429	ARG	CA-CB	-5.91	1.43	1.53
1	A	1247	ALA	C-O	-5.82	1.16	1.24
1	C	1429	ARG	CA-CB	-5.75	1.43	1.53
1	C	1131	ALA	C-O	5.71	1.30	1.24
1	A	1592	MET	N-CA	5.65	1.52	1.45
1	A	1130	LYS	C-O	5.63	1.31	1.24
1	B	1279	HIS	CA-CB	-5.58	1.44	1.53
1	B	1130	LYS	C-O	5.58	1.31	1.24
1	A	1223	ASN	CA-C	5.54	1.60	1.53
1	A	1247	ALA	C-N	-5.43	1.28	1.33
1	A	1456	GLN	CA-CB	-5.38	1.45	1.53
1	C	1456	GLN	CA-CB	-5.34	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	160	PHE	CA-CB	5.33	1.61	1.53
1	A	1165	ARG	CA-C	5.33	1.59	1.52
1	B	1456	GLN	CA-CB	-5.24	1.45	1.53
2	E	96	THR	N-CA	5.17	1.52	1.46
2	E	95	LEU	CA-C	5.14	1.59	1.52
1	C	1592	MET	N-CA	5.13	1.52	1.45
1	C	1247	ALA	N-CA	5.12	1.52	1.46

All (514) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1162	LYS	CA-C-O	43.22	166.55	120.30
1	A	1104	GLU	CA-C-N	-39.66	70.27	119.84
1	A	1104	GLU	C-N-CA	-39.66	70.27	119.84
1	B	1279	HIS	O-C-N	-26.43	87.43	122.59
1	B	1223	ASN	N-CA-C	26.37	145.99	112.24
1	B	1162	LYS	CA-C-N	-24.24	86.60	123.93
1	B	1162	LYS	C-N-CA	-24.24	86.60	123.93
1	A	1223	ASN	N-CA-C	23.65	143.67	111.74
1	C	1223	ASN	N-CA-C	23.57	161.00	110.80
1	A	1162	LYS	O-C-N	-22.07	95.87	123.02
1	C	1182	ARG	O-C-N	22.01	144.97	122.30
1	C	1247	ALA	CA-C-N	19.17	152.03	121.74
1	C	1247	ALA	C-N-CA	19.17	152.03	121.74
1	A	1223	ASN	CB-CA-C	-18.33	85.70	111.73
1	A	1103	ASN	CA-C-N	-17.98	77.93	121.80
1	A	1103	ASN	C-N-CA	-17.98	77.93	121.80
1	A	1222	SER	CA-C-O	-17.85	94.98	120.51
1	C	1131	ALA	CA-C-N	-17.56	89.28	121.41
1	C	1131	ALA	C-N-CA	-17.56	89.28	121.41
1	A	1103	ASN	O-C-N	17.39	143.12	122.25
1	B	1456	GLN	CB-CA-C	-17.15	88.31	111.63
1	A	1456	GLN	CB-CA-C	-17.05	88.44	111.63
1	C	1456	GLN	CB-CA-C	-17.05	88.45	111.63
1	B	1280	ALA	CA-C-O	-16.92	96.31	120.51
1	B	1457	ASN	N-CA-C	-16.76	92.69	114.31
1	C	1457	ASN	N-CA-C	-16.70	92.77	114.31
1	A	1457	ASN	N-CA-C	-16.68	92.80	114.31
1	C	1137	TYR	N-CA-CB	16.61	138.57	110.49
1	B	1223	ASN	CB-CA-C	-16.42	85.57	111.51
1	A	1572	THR	N-CA-C	15.44	129.86	111.02
1	B	1572	THR	N-CA-C	15.44	129.86	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1572	THR	N-CA-C	15.31	129.70	111.02
1	C	1182	ARG	CA-C-O	-15.28	105.61	119.97
1	B	1121	VAL	CB-CA-C	-15.21	86.35	111.29
1	B	1429	ARG	CB-CA-C	-15.05	80.47	110.42
1	A	1429	ARG	CB-CA-C	-15.02	80.53	110.42
1	C	1429	ARG	CB-CA-C	-15.02	80.53	110.42
1	C	1222	SER	CA-C-N	-14.96	92.97	121.54
1	C	1222	SER	C-N-CA	-14.96	92.97	121.54
1	B	1223	ASN	CA-C-N	14.70	139.55	120.44
1	B	1223	ASN	C-N-CA	14.70	139.55	120.44
1	A	1223	ASN	CA-C-N	14.56	139.36	120.44
1	A	1223	ASN	C-N-CA	14.56	139.36	120.44
1	C	1223	ASN	CA-C-N	14.54	139.34	120.44
1	C	1223	ASN	C-N-CA	14.54	139.34	120.44
1	B	1532	SER	N-CA-C	-14.38	83.62	108.20
1	B	1091	ASN	CB-CA-C	-14.37	81.83	110.42
1	C	1532	SER	N-CA-C	-14.36	83.64	108.20
1	A	1091	ASN	CB-CA-C	-14.31	81.94	110.42
1	A	1532	SER	N-CA-C	-14.26	83.82	108.20
1	A	1183	LEU	N-CA-C	14.21	126.49	111.14
1	B	1162	LYS	O-C-N	-14.13	106.88	123.27
1	A	1574	TYR	CA-C-O	-13.91	104.07	120.62
1	A	1222	SER	O-C-N	13.80	140.94	122.59
1	B	1222	SER	CA-C-O	-13.50	101.20	120.51
1	C	1355	ALA	N-CA-C	-13.29	86.00	107.93
1	A	1355	ALA	N-CA-C	-13.22	86.11	107.93
1	B	1355	ALA	N-CA-C	-13.19	86.17	107.93
1	A	1104	GLU	N-CA-C	13.00	138.54	109.81
1	A	1593	ASP	N-CA-CB	12.99	132.44	110.49
1	A	1592	MET	CB-CA-C	-12.98	88.39	109.80
1	C	1223	ASN	CB-CA-C	-12.96	84.64	110.42
1	C	1593	ASP	N-CA-CB	12.89	132.27	110.49
1	C	1247	ALA	CA-C-O	-12.86	102.13	120.51
1	B	1593	ASP	N-CA-CB	12.83	132.17	110.49
1	B	1233	HIS	N-CA-C	-12.56	94.62	113.72
1	A	1233	HIS	N-CA-C	-12.50	94.72	113.72
1	C	1183	LEU	N-CA-C	12.49	137.40	110.80
1	C	1247	ALA	O-C-N	-12.33	106.19	122.59
1	C	1131	ALA	O-C-N	12.24	136.11	122.15
1	B	1210	MET	N-CA-C	-12.20	87.15	108.13
1	A	1104	GLU	O-C-N	-12.09	107.42	121.32
1	C	1592	MET	CB-CA-C	-12.06	88.72	109.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1210	MET	N-CA-C	-12.03	87.44	108.13
1	A	1280	ALA	CA-C-O	-11.91	105.02	119.43
1	C	1086	ILE	N-CA-C	-11.76	84.88	109.34
1	B	1280	ALA	O-C-N	11.50	137.89	122.59
1	C	1224	PHE	N-CA-C	11.40	123.27	111.07
1	B	1592	MET	CB-CA-C	-11.27	89.20	110.51
1	B	1222	SER	O-C-N	11.23	137.53	122.59
1	B	1224	PHE	N-CA-C	11.20	123.06	111.07
1	C	1222	SER	O-C-N	-11.20	110.08	123.29
1	A	1224	PHE	N-CA-C	11.19	123.04	111.07
1	A	1598	TYR	CB-CA-C	11.19	132.69	110.42
1	B	1598	TYR	CB-CA-C	11.19	132.69	110.42
2	F	111	LYS	N-CA-C	-11.17	99.64	113.38
1	C	1598	TYR	CB-CA-C	11.12	132.55	110.42
1	C	1598	TYR	N-CA-C	-10.96	87.45	110.80
1	A	1598	TYR	N-CA-C	-10.95	87.48	110.80
1	B	1598	TYR	N-CA-C	-10.92	87.53	110.80
2	E	111	LYS	N-CA-C	-10.84	99.52	113.17
2	D	111	LYS	N-CA-C	-10.78	99.59	113.17
1	B	1576	LEU	N-CA-C	-10.75	90.69	108.32
2	E	92	ALA	N-CA-C	10.68	133.54	110.80
1	A	1325	SER	N-CA-C	10.66	133.50	110.80
1	A	1576	LEU	N-CA-C	-10.64	90.88	108.32
1	B	1256	VAL	N-CA-C	10.64	131.46	109.34
1	C	1256	VAL	N-CA-C	10.61	131.41	109.34
1	A	1256	VAL	N-CA-C	10.61	131.40	109.34
1	C	1592	MET	O-C-N	-10.60	111.06	122.94
1	A	1197	HIS	N-CA-C	-10.56	94.11	109.11
1	B	1325	SER	N-CA-C	10.56	133.30	110.80
1	C	1325	SER	N-CA-C	10.56	133.30	110.80
1	C	1182	ARG	N-CA-C	-10.50	98.27	112.03
1	A	1223	ASN	CA-C-O	-10.45	108.85	121.28
1	C	1576	LEU	N-CA-C	-10.43	90.73	107.93
1	B	1418	LEU	CB-CA-C	-10.31	89.90	110.42
1	A	1592	MET	O-C-N	-10.30	111.39	123.03
1	A	1418	LEU	CB-CA-C	-10.28	89.96	110.42
1	A	1223	ASN	O-C-N	10.27	136.17	122.41
1	C	1418	LEU	CB-CA-C	-10.26	90.01	110.42
1	C	1223	ASN	O-C-N	10.22	136.19	122.59
1	A	1235	GLY	N-CA-C	-10.18	98.33	115.34
1	B	1235	GLY	N-CA-C	-10.17	98.36	115.34
2	D	100	GLU	N-CA-C	-10.12	100.34	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1326	LYS	N-CA-C	-10.03	89.67	107.73
1	C	1326	LYS	N-CA-C	-10.03	89.67	107.73
1	B	1326	LYS	N-CA-C	-9.99	89.76	107.73
2	E	153	ASN	N-CA-C	-9.98	100.41	112.58
1	B	1528	CYS	CB-CA-C	9.95	130.21	110.42
1	A	1590	ASN	N-CA-C	9.91	131.91	110.80
2	F	153	ASN	N-CA-C	-9.91	100.49	112.58
1	C	1139	GLU	N-CA-C	9.89	123.09	111.02
1	B	1592	MET	O-C-N	-9.87	111.13	122.68
2	D	153	ASN	N-CA-C	-9.86	100.56	112.58
1	A	1163	LYS	N-CA-C	-9.85	97.80	111.39
1	A	1147	SER	CA-C-N	-9.80	102.19	121.41
1	A	1147	SER	C-N-CA	-9.80	102.19	121.41
1	A	1139	GLU	N-CA-C	9.77	122.93	111.02
1	B	1134	PRO	CA-C-N	-9.68	109.64	123.00
1	B	1134	PRO	C-N-CA	-9.68	109.64	123.00
1	B	1139	GLU	N-CA-C	9.66	122.80	111.02
1	B	1351	ALA	N-CA-C	-9.57	100.51	114.39
1	A	1351	ALA	N-CA-C	-9.56	100.52	114.39
1	C	1351	ALA	N-CA-C	-9.52	100.58	114.39
1	C	1169	VAL	CB-CA-C	-9.52	101.58	110.91
2	E	100	GLU	N-CA-C	-9.48	100.48	112.90
1	B	1281	ASP	N-CA-CB	9.43	127.48	110.32
1	B	1169	VAL	CB-CA-C	-9.41	101.69	110.91
1	B	1606	TYR	N-CA-C	-9.40	100.99	111.14
1	B	1251	ARG	CB-CA-C	-9.33	91.85	110.42
1	B	1223	ASN	CA-C-O	-9.33	109.24	120.81
1	C	1606	TYR	N-CA-C	-9.31	101.08	111.14
1	C	1251	ARG	CB-CA-C	-9.29	91.94	110.42
1	A	1169	VAL	CB-CA-C	-9.28	101.82	110.91
1	A	1251	ARG	CB-CA-C	-9.28	91.96	110.42
1	A	1520	ARG	N-CA-C	9.26	122.36	111.71
1	A	1606	TYR	N-CA-C	-9.26	101.14	111.14
2	F	96	THR	N-CA-C	-9.20	102.18	113.50
1	C	1424	MET	N-CA-C	9.20	130.39	110.80
1	A	1424	MET	N-CA-C	9.19	130.38	110.80
1	C	1520	ARG	N-CA-C	9.16	122.25	111.71
1	B	1424	MET	N-CA-C	9.15	130.28	110.80
1	B	1520	ARG	N-CA-C	9.14	122.23	111.71
2	D	96	THR	N-CA-C	-9.13	102.13	113.18
1	A	1527	LEU	N-CA-C	9.06	130.11	110.80
1	B	1281	ASP	N-CA-C	-9.05	102.01	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1527	LEU	N-CA-C	9.05	130.08	110.80
1	C	1527	LEU	N-CA-C	9.03	130.03	110.80
1	A	1572	THR	CB-CA-C	-9.01	96.59	110.92
1	B	1572	THR	CB-CA-C	-8.99	96.63	110.92
1	C	1572	THR	CB-CA-C	-8.92	96.74	110.92
1	B	1230	THR	N-CA-C	8.75	122.63	108.63
1	C	1230	THR	N-CA-C	8.74	122.62	108.63
1	A	1230	THR	N-CA-C	8.72	122.58	108.63
1	A	1162	LYS	N-CA-C	8.66	122.50	109.25
1	B	1280	ALA	CB-CA-C	-8.65	93.20	110.42
1	B	1590	ASN	N-CA-C	8.60	129.11	110.80
1	A	1231	LEU	CB-CA-C	8.43	127.20	110.42
1	B	1231	LEU	CB-CA-C	8.41	127.15	110.42
2	F	160	PHE	N-CA-C	-8.37	103.56	112.93
1	C	1528	CYS	CB-CA-C	8.30	126.95	110.42
1	A	1528	CYS	CB-CA-C	8.29	126.92	110.42
1	C	1271	MET	N-CA-C	-8.27	101.31	111.40
1	A	1134	PRO	N-CA-C	8.24	133.53	112.10
1	B	1271	MET	N-CA-C	-8.24	101.34	111.40
1	C	1531	ASP	CB-CA-C	-8.23	98.40	111.48
1	A	1271	MET	N-CA-C	-8.21	101.38	111.40
1	A	1256	VAL	CB-CA-C	-8.21	97.83	111.29
1	B	1531	ASP	CB-CA-C	-8.19	98.46	111.48
1	A	1531	ASP	CB-CA-C	-8.18	98.48	111.48
1	B	1256	VAL	CB-CA-C	-8.12	97.97	111.29
1	B	1162	LYS	N-CA-C	-8.12	95.17	108.41
1	C	1256	VAL	CB-CA-C	-8.11	97.99	111.29
1	C	1270	GLN	N-CA-C	-8.09	104.01	114.04
1	B	1134	PRO	N-CA-C	8.06	133.06	112.10
1	C	1118	LYS	CA-C-O	-8.05	111.95	120.40
1	B	1197	HIS	O-C-N	8.03	133.45	123.01
1	C	1421	ASP	N-CA-C	-8.01	102.61	112.38
1	B	1223	ASN	O-C-N	8.01	136.06	122.21
1	B	1270	GLN	N-CA-C	-7.99	104.14	114.04
1	A	1421	ASP	N-CA-C	-7.97	102.66	112.38
1	A	1231	LEU	N-CA-C	-7.95	93.86	110.80
1	B	1231	LEU	N-CA-C	-7.95	93.87	110.80
1	B	1421	ASP	N-CA-C	-7.94	102.69	112.38
1	A	1270	GLN	N-CA-C	-7.92	104.22	114.04
1	A	1104	GLU	CA-C-O	-7.83	109.43	120.16
1	C	1248	ASN	N-CA-C	7.78	121.50	109.60
1	A	1162	LYS	CA-C-O	-7.77	111.47	120.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1167	SER	N-CA-C	7.77	127.36	110.80
1	C	1130	LYS	N-CA-C	-7.77	95.00	108.52
2	E	112	ARG	N-CA-C	-7.75	94.30	110.80
2	F	112	ARG	N-CA-C	-7.74	94.32	110.80
1	A	1107	VAL	N-CA-C	7.73	125.42	109.34
1	A	1511	ALA	N-CA-C	-7.72	102.83	111.71
1	A	1181	ASN	CB-CA-C	-7.71	95.07	110.42
1	B	1107	VAL	N-CA-C	7.71	125.39	109.34
1	C	1511	ALA	N-CA-C	-7.68	102.88	111.71
1	B	1221	VAL	CA-C-O	-7.68	111.18	120.78
1	B	1511	ALA	N-CA-C	-7.67	102.88	111.71
1	C	1118	LYS	O-C-N	7.51	133.03	123.12
1	A	1133	ASP	N-CA-C	-7.50	93.24	109.81
2	D	113	LEU	N-CA-CB	-7.48	97.85	110.49
1	A	1222	SER	CB-CA-C	-7.48	95.54	110.42
1	B	1590	ASN	CB-CA-C	-7.43	95.64	110.42
1	C	1223	ASN	CA-C-O	-7.41	109.92	120.51
1	A	1209	LYS	N-CA-C	7.40	120.57	109.25
1	B	1589	HIS	N-CA-C	7.38	126.51	110.80
1	C	1576	LEU	CB-CA-C	7.36	120.64	110.34
1	A	1465	GLU	N-CA-C	7.35	126.46	110.80
1	C	1520	ARG	CB-CA-C	-7.34	97.04	110.63
2	F	139	ASN	N-CA-C	7.33	123.38	111.37
1	B	1465	GLU	N-CA-C	7.32	126.38	110.80
1	C	1590	ASN	CB-CA-C	-7.31	95.88	110.42
1	B	1209	LYS	N-CA-C	7.28	120.39	109.25
1	C	1465	GLU	N-CA-C	7.28	126.30	110.80
1	B	1520	ARG	CB-CA-C	-7.27	97.18	110.63
1	A	1520	ARG	CB-CA-C	-7.26	97.21	110.63
1	A	1266	PHE	N-CA-C	-7.20	104.47	113.18
1	B	1171	THR	N-CA-C	-7.20	103.60	112.38
1	C	1136	SER	CB-CA-C	7.20	124.74	110.42
1	A	1590	ASN	CB-CA-C	-7.18	96.13	110.42
1	B	1133	ASP	N-CA-C	-7.18	93.95	109.81
1	B	1237	TYR	N-CA-C	-7.15	104.99	113.21
1	C	1171	THR	N-CA-C	-7.14	103.67	112.38
1	C	1266	PHE	N-CA-C	-7.14	104.54	113.18
2	F	164	PRO	N-CA-CB	7.14	110.75	103.25
1	A	1180	THR	N-CA-C	7.12	118.83	111.14
1	A	1237	TYR	N-CA-C	-7.12	105.02	113.21
1	C	1248	ASN	N-CA-CB	-7.11	99.66	110.39
1	C	1535	LYS	N-CA-C	7.11	125.94	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1266	PHE	N-CA-C	-7.08	104.61	113.18
1	A	1171	THR	N-CA-C	-7.08	103.75	112.38
1	C	1237	TYR	N-CA-C	-7.05	105.10	113.21
1	A	1535	LYS	N-CA-C	7.05	125.81	110.80
2	F	104	LYS	N-CA-C	-7.04	103.54	111.14
1	C	1590	ASN	N-CA-C	7.03	125.77	110.80
1	B	1535	LYS	N-CA-C	7.01	125.74	110.80
1	B	1134	PRO	N-CA-CB	-7.01	94.89	102.60
2	F	157	ASP	N-CA-C	6.98	125.67	110.80
2	D	157	ASP	N-CA-C	6.98	125.67	110.80
2	E	96	THR	N-CA-C	-6.97	106.68	114.62
1	B	1447	LEU	N-CA-C	-6.95	103.71	111.28
1	C	1181	ASN	CB-CA-C	-6.93	96.54	111.78
1	A	1508	ARG	N-CA-C	-6.90	104.83	113.18
2	D	104	LYS	N-CA-C	-6.90	103.69	111.07
1	C	1447	LEU	N-CA-C	-6.90	103.76	111.28
1	A	1447	LEU	N-CA-C	-6.88	103.79	111.28
1	A	1147	SER	CA-C-O	6.86	130.32	120.51
2	F	156	ALA	CA-C-N	6.86	134.64	121.54
2	F	156	ALA	C-N-CA	6.86	134.64	121.54
1	A	1134	PRO	N-CA-CB	-6.85	95.07	102.60
1	A	1610	VAL	N-CA-C	-6.84	102.04	111.89
2	D	156	ALA	CA-C-N	6.83	134.59	121.54
2	D	156	ALA	C-N-CA	6.83	134.59	121.54
1	C	1610	VAL	N-CA-C	-6.83	102.06	111.89
1	C	1508	ARG	N-CA-C	-6.83	104.92	113.18
1	A	1261	VAL	CB-CA-C	-6.82	100.10	111.29
2	D	110	ARG	N-CA-C	-6.82	104.99	113.38
1	B	1508	ARG	N-CA-C	-6.82	104.93	113.18
1	C	1326	LYS	CB-CA-C	-6.81	101.17	111.73
2	F	110	ARG	N-CA-C	-6.79	105.03	113.38
1	C	1261	VAL	CB-CA-C	-6.78	100.17	111.29
1	B	1326	LYS	CB-CA-C	-6.77	101.23	111.73
1	B	1221	VAL	O-C-N	6.77	131.03	122.57
1	B	1610	VAL	N-CA-C	-6.76	102.15	111.89
1	A	1326	LYS	CB-CA-C	-6.76	101.25	111.73
2	F	156	ALA	N-CA-C	-6.76	96.41	110.80
1	B	1261	VAL	CB-CA-C	-6.74	100.23	111.29
2	D	156	ALA	N-CA-C	-6.74	96.45	110.80
1	A	1103	ASN	N-CA-C	-6.72	105.71	114.04
2	E	139	ASN	N-CA-C	6.71	122.37	111.37
2	F	143	SER	N-CA-C	6.69	125.05	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	143	SER	N-CA-C	6.69	125.05	110.80
1	C	1503	GLU	N-CA-C	-6.65	105.17	113.55
2	F	100	GLU	N-CA-C	-6.63	103.92	113.21
1	C	1358	TRP	CB-CA-C	-6.60	97.28	110.42
1	A	1358	TRP	CB-CA-C	-6.60	97.29	110.42
1	B	1503	GLU	N-CA-C	-6.55	105.30	113.55
1	B	1358	TRP	CB-CA-C	-6.55	97.39	110.42
1	C	1180	THR	N-CA-C	6.53	124.70	110.80
1	B	1576	LEU	CB-CA-C	6.52	120.92	109.89
1	A	1354	GLN	N-CA-C	-6.52	105.20	113.02
1	A	1503	GLU	N-CA-C	-6.52	105.33	113.55
1	B	1440	SER	N-CA-C	6.50	118.91	111.11
1	B	1129	ILE	CA-C-N	-6.50	109.13	121.54
1	B	1129	ILE	C-N-CA	-6.50	109.13	121.54
1	A	1129	ILE	CA-C-N	-6.49	109.14	121.54
1	A	1129	ILE	C-N-CA	-6.49	109.14	121.54
1	A	1455	VAL	CB-CA-C	-6.49	100.64	111.29
1	B	1121	VAL	N-CA-C	6.49	122.83	109.34
1	C	1354	GLN	N-CA-C	-6.48	105.25	113.02
1	B	1559	GLN	N-CA-C	6.47	121.03	113.20
1	A	1440	SER	N-CA-C	6.47	118.87	111.11
2	F	97	GLN	N-CA-C	6.46	117.99	111.07
1	B	1358	TRP	N-CA-C	6.46	124.56	110.80
1	C	1353	GLU	N-CA-C	-6.46	105.26	113.01
1	C	1440	SER	N-CA-C	6.44	118.84	111.11
1	C	1455	VAL	CB-CA-C	-6.44	100.73	111.29
1	B	1353	GLU	N-CA-C	-6.43	105.29	113.01
1	A	1358	TRP	N-CA-C	6.43	124.50	110.80
1	A	1576	LEU	CB-CA-C	6.42	120.74	109.89
1	B	1354	GLN	N-CA-C	-6.42	105.31	113.02
1	B	1455	VAL	CB-CA-C	-6.42	100.77	111.29
1	A	1353	GLU	N-CA-C	-6.40	105.33	113.01
1	C	1358	TRP	N-CA-C	6.38	124.40	110.80
2	E	93	ASP	N-CA-C	6.38	124.39	110.80
1	B	1592	MET	CA-C-O	6.37	129.34	121.89
1	A	1559	GLN	N-CA-C	6.36	120.90	113.20
2	D	164	PRO	N-CA-CB	6.35	110.31	103.33
1	A	1426	LEU	CB-CA-C	-6.30	100.28	110.74
1	C	1559	GLN	N-CA-C	6.30	120.82	113.20
1	C	1426	LEU	CB-CA-C	-6.29	100.30	110.74
1	A	1197	HIS	CA-C-N	6.28	133.28	121.97
1	A	1197	HIS	C-N-CA	6.28	133.28	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1122	LYS	CB-CA-C	-6.27	100.34	110.74
1	A	1518	ASN	CB-CA-C	-6.26	101.52	111.48
2	E	94	ARG	N-CA-C	6.26	124.13	110.80
1	C	1518	ASN	CB-CA-C	-6.25	101.54	111.48
1	A	1419	LEU	N-CA-C	-6.25	105.31	113.12
1	B	1197	HIS	CA-C-N	-6.25	111.48	121.35
1	B	1197	HIS	C-N-CA	-6.25	111.48	121.35
1	B	1518	ASN	CB-CA-C	-6.25	101.55	111.48
1	B	1419	LEU	N-CA-C	-6.24	105.33	113.12
2	E	143	SER	N-CA-C	6.22	124.06	110.80
1	C	1465	GLU	CB-CA-C	-6.22	98.04	110.42
1	B	1426	LEU	CB-CA-C	-6.22	100.42	110.74
2	E	110	ARG	N-CA-C	-6.21	105.49	114.12
1	C	1419	LEU	N-CA-C	-6.20	105.38	113.12
1	A	1147	SER	O-C-N	6.19	130.83	122.59
1	A	1463	VAL	CB-CA-C	-6.19	101.13	111.29
1	B	1465	GLU	CB-CA-C	-6.18	98.12	110.42
1	A	1465	GLU	CB-CA-C	-6.18	98.13	110.42
1	B	1463	VAL	CB-CA-C	-6.15	101.20	111.29
1	C	1463	VAL	CB-CA-C	-6.13	101.23	111.29
2	E	104	LYS	N-CA-C	6.13	121.42	111.37
1	A	1607	LEU	N-CA-C	-6.12	106.49	112.97
1	B	1607	LEU	N-CA-C	-6.11	106.50	112.97
1	C	1136	SER	O-C-N	6.10	130.70	122.59
1	C	1607	LEU	N-CA-C	-6.08	106.52	112.97
1	C	1225	GLY	N-CA-C	-6.06	105.30	113.24
1	B	1225	GLY	N-CA-C	-6.05	105.31	113.24
1	A	1226	ARG	N-CA-C	-6.05	106.25	113.21
1	A	1225	GLY	N-CA-C	-6.05	105.32	113.24
1	C	1220	ASN	N-CA-C	-6.05	103.52	113.50
1	B	1529	LYS	N-CA-CB	-6.00	100.35	110.49
1	B	1151	GLU	CB-CA-C	-5.99	98.50	110.42
1	C	1226	ARG	N-CA-C	-5.99	106.33	113.21
1	A	1529	LYS	N-CA-CB	-5.99	100.37	110.49
1	B	1226	ARG	N-CA-C	-5.98	106.33	113.21
1	A	1220	ASN	N-CA-C	-5.97	103.65	113.50
1	C	1592	MET	CA-C-O	5.96	128.76	121.72
1	A	1425	VAL	CB-CA-C	-5.95	101.54	111.29
1	B	1220	ASN	N-CA-C	-5.93	103.72	113.50
1	C	1529	LYS	N-CA-CB	-5.92	100.49	110.49
1	C	1151	GLU	CB-CA-C	-5.90	98.69	110.42
1	A	1151	GLU	CB-CA-C	-5.89	98.70	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1425	VAL	CB-CA-C	-5.88	101.66	111.29
1	B	1598	TYR	CA-C-N	5.87	130.51	120.71
1	B	1598	TYR	C-N-CA	5.87	130.51	120.71
1	A	1598	TYR	CA-C-N	5.87	130.51	120.71
1	A	1598	TYR	C-N-CA	5.87	130.51	120.71
1	A	1250	THR	CB-CA-C	-5.87	101.04	109.84
1	B	1425	VAL	CB-CA-C	-5.86	101.69	111.29
1	A	1570	LEU	N-CA-C	-5.85	105.25	112.38
1	A	1247	ALA	CA-C-N	-5.85	114.44	122.16
1	A	1247	ALA	C-N-CA	-5.85	114.44	122.16
1	A	1575	ASP	N-CA-C	-5.83	98.38	110.80
2	F	152	ASN	N-CA-C	-5.83	102.68	110.55
1	B	1222	SER	CB-CA-C	-5.83	98.83	110.42
1	C	1570	LEU	N-CA-C	-5.82	105.29	112.38
1	C	1598	TYR	CA-C-N	5.82	130.42	120.71
1	C	1598	TYR	C-N-CA	5.82	130.42	120.71
2	E	113	LEU	CA-CB-CG	5.81	136.65	116.30
1	B	1250	THR	CB-CA-C	-5.81	101.12	109.84
1	A	1183	LEU	CB-CA-C	-5.81	101.72	110.90
2	D	152	ASN	N-CA-C	-5.80	102.72	110.55
2	F	113	LEU	CA-CB-CG	5.78	136.52	116.30
2	E	152	ASN	N-CA-C	-5.77	102.76	110.55
1	C	1426	LEU	N-CA-C	5.77	120.88	111.37
1	A	1488	ASP	N-CA-C	5.74	119.05	112.57
1	A	1165	ARG	CA-C-N	5.72	131.75	122.53
1	A	1165	ARG	C-N-CA	5.72	131.75	122.53
1	C	1355	ALA	CB-CA-C	5.72	118.36	110.34
1	B	1355	ALA	CB-CA-C	5.71	118.33	110.34
2	D	113	LEU	CA-CB-CG	5.70	136.26	116.30
1	A	1232	VAL	N-CA-CB	5.70	120.63	111.23
1	A	1426	LEU	N-CA-C	5.69	120.76	111.37
1	A	1085	LEU	N-CA-C	-5.69	98.23	108.58
1	B	1570	LEU	N-CA-C	-5.69	105.44	112.38
1	B	1232	VAL	N-CA-CB	5.68	120.61	111.23
1	C	1224	PHE	N-CA-CB	-5.67	101.79	110.01
1	C	1488	ASP	N-CA-C	5.67	118.97	112.57
1	B	1426	LEU	N-CA-C	5.65	120.70	111.37
1	C	1173	LEU	N-CA-C	-5.64	105.04	111.07
1	A	1355	ALA	CB-CA-C	5.61	118.20	110.34
1	C	1577	LEU	N-CA-C	-5.61	106.26	114.39
1	B	1488	ASP	N-CA-C	5.58	118.88	112.57
1	A	1247	ALA	CA-C-O	5.58	128.49	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1588	ARG	N-CA-C	-5.58	104.22	111.02
1	B	1173	LEU	N-CA-C	-5.57	105.11	111.07
1	B	1371	TYR	N-CA-C	5.56	122.64	110.80
1	A	1224	PHE	N-CA-CB	-5.56	101.95	110.01
1	C	1151	GLU	N-CA-C	5.55	122.62	110.80
1	C	1371	TYR	N-CA-C	5.55	122.62	110.80
1	B	1210	MET	CB-CA-C	5.55	118.34	110.24
1	A	1151	GLU	N-CA-C	5.54	122.61	110.80
1	A	1371	TYR	N-CA-C	5.54	122.60	110.80
1	B	1577	LEU	N-CA-C	-5.52	106.38	114.39
1	A	1134	PRO	CA-C-N	-5.51	109.75	121.32
1	A	1134	PRO	C-N-CA	-5.51	109.75	121.32
1	A	1210	MET	CB-CA-C	5.51	118.28	110.24
1	A	1129	ILE	CB-CA-C	-5.50	102.27	111.29
1	A	1232	VAL	N-CA-C	-5.50	97.90	109.34
1	B	1224	PHE	N-CA-CB	-5.49	102.05	110.01
1	B	1232	VAL	N-CA-C	-5.48	97.94	109.34
1	A	1173	LEU	N-CA-C	-5.47	105.21	111.07
1	A	1472	ILE	N-CA-C	5.47	115.72	110.74
1	B	1151	GLU	N-CA-C	5.47	122.45	110.80
1	A	1577	LEU	N-CA-C	-5.47	106.46	114.39
1	A	1092	LEU	N-CA-C	5.46	122.43	110.80
1	B	1092	LEU	N-CA-C	5.46	122.42	110.80
1	B	1139	GLU	CB-CA-C	-5.46	102.25	110.92
1	B	1129	ILE	CB-CA-C	-5.45	102.36	111.29
1	B	1134	PRO	N-CD-CG	-5.45	97.27	103.80
1	B	1215	LYS	N-CA-C	-5.44	99.21	110.80
1	B	1608	THR	N-CA-C	-5.43	106.38	114.64
1	A	1134	PRO	N-CD-CG	-5.43	97.29	103.80
1	B	1472	ILE	N-CA-C	5.43	115.68	110.74
1	B	1133	ASP	CB-CA-C	5.42	120.85	110.17
1	A	1325	SER	CB-CA-C	-5.42	99.64	110.42
1	A	1139	GLU	CB-CA-C	-5.42	102.31	110.92
1	C	1215	LYS	N-CA-C	-5.41	99.28	110.80
1	A	1215	LYS	N-CA-C	-5.40	99.30	110.80
1	C	1139	GLU	CB-CA-C	-5.40	102.34	110.92
1	C	1608	THR	N-CA-C	-5.40	106.44	114.64
1	A	1285	GLU	N-CA-C	-5.39	105.96	112.54
1	C	1325	SER	CB-CA-C	-5.39	99.70	110.42
1	A	1574	TYR	CA-C-N	5.38	131.82	121.54
1	A	1574	TYR	C-N-CA	5.38	131.82	121.54
1	B	1325	SER	CB-CA-C	-5.37	99.73	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1592	MET	CA-C-O	5.37	128.21	121.66
1	B	1472	ILE	CB-CA-C	-5.36	104.86	111.94
1	A	1472	ILE	CB-CA-C	-5.36	104.86	111.94
1	B	1592	MET	N-CA-C	-5.36	102.82	110.59
1	C	1368	TYR	N-CA-C	-5.36	105.84	112.38
2	E	119	ALA	N-CA-C	5.36	122.21	110.80
1	B	1368	TYR	N-CA-C	-5.36	105.85	112.38
1	A	1133	ASP	CB-CA-C	5.35	120.71	110.17
1	A	1222	SER	N-CA-C	5.34	122.18	110.80
1	A	1608	THR	N-CA-C	-5.33	106.53	114.64
2	D	119	ALA	N-CA-C	5.33	122.15	110.80
1	C	1593	ASP	CB-CA-C	-5.32	99.84	110.42
1	C	1303	LEU	N-CA-C	-5.31	105.44	112.34
2	E	96	THR	CB-CA-C	-5.31	102.22	109.28
1	B	1303	LEU	N-CA-C	-5.30	105.44	112.34
1	C	1472	ILE	N-CA-C	5.28	115.55	110.74
1	A	1593	ASP	CB-CA-C	-5.28	99.92	110.42
2	F	96	THR	CA-C-N	5.28	127.30	120.44
2	F	96	THR	C-N-CA	5.28	127.30	120.44
1	A	1368	TYR	N-CA-C	-5.27	105.95	112.38
1	C	1472	ILE	CB-CA-C	-5.26	105.00	111.94
1	A	1281	ASP	N-CA-C	5.23	121.94	110.80
1	B	1593	ASP	CB-CA-C	-5.23	100.01	110.42
1	A	1303	LEU	N-CA-C	-5.22	105.55	112.34
1	C	1288	ASN	N-CA-C	-5.21	99.69	110.80
1	C	1623	GLU	CB-CA-C	-5.21	102.20	110.84
2	F	148	LYS	N-CA-C	-5.20	105.78	111.82
1	A	1371	TYR	CB-CA-C	-5.20	100.07	110.42
1	C	1371	TYR	CB-CA-C	-5.20	100.08	110.42
1	B	1451	TYR	N-CA-C	-5.19	106.05	112.38
1	B	1623	GLU	CB-CA-C	-5.19	102.23	110.84
1	A	1623	GLU	CB-CA-C	-5.18	102.24	110.84
1	B	1371	TYR	CB-CA-C	-5.18	100.11	110.42
2	E	148	LYS	N-CA-C	-5.18	105.82	111.82
1	A	1105	PRO	N-CA-C	5.17	123.12	112.47
1	B	1219	ASN	N-CA-C	-5.16	107.16	112.93
1	C	1451	TYR	N-CA-C	-5.15	106.10	112.38
1	A	1197	HIS	O-C-N	-5.13	116.29	122.65
1	B	1285	GLU	N-CA-C	-5.12	106.29	112.54
1	A	1288	ASN	N-CA-C	-5.11	99.91	110.80
1	A	1451	TYR	N-CA-C	-5.11	106.15	112.38
1	A	1350	ARG	N-CA-C	-5.11	106.90	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1219	ASN	N-CA-C	-5.09	107.23	112.93
2	D	148	LYS	N-CA-C	-5.09	105.91	111.82
1	A	1107	VAL	CB-CA-C	-5.09	102.94	111.29
1	B	1288	ASN	N-CA-C	-5.08	99.98	110.80
1	C	1195	ASN	N-CA-C	5.08	119.69	112.93
1	A	1211	TYR	N-CA-C	5.08	118.74	112.54
1	B	1107	VAL	CB-CA-C	-5.07	102.98	111.29
1	B	1163	LYS	N-CA-CB	5.07	121.97	113.10
1	B	1211	TYR	N-CA-C	5.06	118.71	112.54
1	B	1134	PRO	CA-N-CD	5.05	118.57	111.50
1	B	1195	ASN	CB-CA-C	-5.05	100.37	110.42
1	A	1195	ASN	CB-CA-C	-5.05	100.38	110.42
1	B	1521	TRP	N-CA-C	5.04	116.47	111.07
1	A	1573	CYS	CB-CA-C	-5.04	100.39	110.42
1	C	1573	CYS	CB-CA-C	-5.04	100.39	110.42
1	C	1350	ARG	N-CA-C	-5.04	106.97	112.72
1	A	1219	ASN	N-CA-C	-5.03	107.29	112.93
1	B	1350	ARG	N-CA-C	-5.03	106.99	112.72
1	B	1573	CYS	CB-CA-C	-5.02	100.43	110.42
2	E	129	GLU	N-CA-C	-5.01	106.27	112.38
2	E	156	ALA	N-CA-C	-5.00	96.99	111.00

All (3) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	1104	GLU	CA
1	C	1137	TYR	CA
1	C	1223	ASN	CA

All (15) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1103	ASN	Mainchain
1	A	1104	GLU	Mainchain
1	A	1133	ASP	Mainchain
1	A	1147	SER	Mainchain
1	A	1162	LYS	Mainchain
1	A	1197	HIS	Mainchain
1	A	1247	ALA	Mainchain
1	A	1280	ALA	Mainchain
1	B	1133	ASP	Mainchain
1	B	1279	HIS	Mainchain

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Mol	Chain	Res	Type	Group
1	B	1280	ALA	Mainchain
1	C	1131	ALA	Mainchain
1	C	1182	ARG	Mainchain
1	C	1222	SER	Mainchain
2	F	196	UNK	Peptide

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	4543	0	4455	1345	1
1	B	4543	0	4457	1295	3
1	C	4543	0	4456	1358	4
2	D	1146	0	735	252	0
2	E	823	0	633	248	0
2	F	906	0	669	248	0
All	All	16504	0	15405	4488	5

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 141.

All (4488) 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:1258:PHE:HB2	1:A:1289:TYR:CD2	1.19	1.69
1:A:1253:TRP:CZ3	1:A:1276:ILE:HG22	1.25	1.64
1:C:1253:TRP:CZ3	1:C:1276:ILE:HG22	1.25	1.64
1:A:1258:PHE:CB	1:A:1289:TYR:CE2	1.75	1.63
1:B:1253:TRP:CZ3	1:B:1276:ILE:HG22	1.25	1.63
1:A:1258:PHE:HB3	1:A:1289:TYR:CE2	1.28	1.61
2:E:203:UNK:C	2:E:203:UNK:CA	1.76	1.60
1:B:1264:LYS:CE	1:B:1268:LEU:HD12	1.17	1.58
1:C:1136:SER:CA	1:C:1136:SER:C	1.74	1.58
1:C:1211:TYR:CD1	1:C:1231:LEU:HD22	1.29	1.58
1:A:1280:ALA:CA	1:A:1280:ALA:C	1.75	1.58
1:C:1264:LYS:CE	1:C:1268:LEU:HD12	1.17	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1264:LYS:CE	1:A:1268:LEU:HD12	1.17	1.56
1:A:1223:ASN:N	1:A:1223:ASN:CA	1.70	1.55
1:B:1279:HIS:CA	1:B:1279:HIS:C	1.75	1.55
1:A:1281:ASP:N	1:A:1281:ASP:CA	1.69	1.54
1:B:1358:TRP:CH2	1:B:1381:HIS:CE1	1.98	1.50
1:C:1358:TRP:CH2	1:C:1381:HIS:CE1	1.98	1.50
1:C:1409:GLN:CG	1:C:1413:GLU:HG3	1.41	1.50
1:A:1409:GLN:CG	1:A:1413:GLU:HG3	1.41	1.49
1:A:1358:TRP:CH2	1:A:1381:HIS:CE1	1.98	1.48
1:B:1290:TYR:CD2	1:B:1299:LEU:HD13	1.46	1.47
1:A:1162:LYS:C	1:A:1162:LYS:CA	1.86	1.46
1:B:1409:GLN:CG	1:B:1413:GLU:HG3	1.41	1.46
1:A:1258:PHE:N	1:A:1289:TYR:CZ	1.77	1.44
1:C:1248:ASN:N	1:C:1248:ASN:CA	1.80	1.43
1:A:1244:ALA:HB3	1:A:1275:HIS:ND1	1.13	1.43
1:B:1244:ALA:HB3	1:B:1275:HIS:ND1	1.20	1.43
1:C:1211:TYR:CD1	1:C:1231:LEU:CD2	2.01	1.43
1:B:1244:ALA:HB3	1:B:1275:HIS:CE1	1.53	1.42
1:A:1244:ALA:HB3	1:A:1275:HIS:CE1	1.55	1.42
1:C:1247:ALA:CA	1:C:1247:ALA:C	1.93	1.42
1:B:1253:TRP:CE3	1:B:1276:ILE:CG2	2.04	1.40
2:F:21:UNK:CA	2:F:21:UNK:C	1.97	1.40
1:C:1253:TRP:CE3	1:C:1276:ILE:CG2	2.04	1.39
1:C:1602:VAL:HG13	2:E:203:UNK:C	1.50	1.39
1:A:1253:TRP:CE3	1:A:1276:ILE:CG2	2.04	1.38
1:C:1092:LEU:O	1:C:1094:ARG:N	1.59	1.35
1:B:1601:GLN:NE2	1:C:1587:TRP:CZ3	1.91	1.35
1:C:1504:LEU:HD11	2:E:149:ASN:ND2	1.06	1.35
1:A:1264:LYS:CE	1:A:1268:LEU:CD1	2.05	1.35
1:A:1414:PHE:O	1:A:1416:PRO:HD3	1.27	1.35
1:B:1264:LYS:CE	1:B:1268:LEU:CD1	2.04	1.34
1:A:1279:HIS:NE2	1:A:1283:LEU:CD1	1.89	1.34
1:A:1279:HIS:NE2	1:A:1283:LEU:HD13	1.40	1.34
1:A:1258:PHE:CB	1:A:1289:TYR:CD2	2.01	1.33
1:C:1264:LYS:CE	1:C:1268:LEU:CD1	2.05	1.33
1:B:1250:THR:O	1:B:1251:ARG:HG2	1.25	1.33
2:D:112:ARG:C	2:D:112:ARG:HD3	1.50	1.33
1:B:1414:PHE:O	1:B:1416:PRO:HD3	1.27	1.33
1:C:1167:SER:O	1:C:1171:THR:HB	1.26	1.33
1:B:1253:TRP:CZ3	1:B:1276:ILE:CG2	2.13	1.31
1:C:1253:TRP:CZ3	1:C:1276:ILE:CG2	2.13	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1371:TYR:CD1	1:B:1394:ILE:HG23	1.66	1.31
1:C:1290:TYR:CE2	1:C:1299:LEU:HD13	1.65	1.30
1:A:1371:TYR:CD1	1:A:1394:ILE:HG23	1.66	1.30
1:C:1222:SER:O	1:C:1223:ASN:CB	1.65	1.30
1:C:1371:TYR:HD1	1:C:1394:ILE:CG2	1.45	1.30
1:C:1414:PHE:O	1:C:1416:PRO:HD3	1.27	1.30
1:A:1244:ALA:CB	1:A:1275:HIS:ND1	1.94	1.29
1:C:1409:GLN:HG3	1:C:1413:GLU:CG	1.62	1.29
2:E:104:LYS:O	2:E:108:GLU:CG	1.79	1.29
1:B:1409:GLN:HG3	1:B:1413:GLU:CG	1.63	1.29
1:A:1371:TYR:HD1	1:A:1394:ILE:CG2	1.45	1.28
1:C:1371:TYR:CD1	1:C:1394:ILE:HG23	1.66	1.28
1:A:1253:TRP:CZ3	1:A:1276:ILE:CG2	2.13	1.28
1:A:1409:GLN:HG3	1:A:1413:GLU:CG	1.62	1.28
1:B:1371:TYR:HD1	1:B:1394:ILE:CG2	1.45	1.28
1:A:1250:THR:O	1:A:1251:ARG:HG2	1.24	1.28
1:C:1395:ILE:HG13	1:C:1404:TYR:CE2	1.68	1.28
1:C:1250:THR:O	1:C:1251:ARG:HG2	1.24	1.28
1:B:1137:TYR:CB	1:B:1138:MET:HB2	1.65	1.27
1:B:1598:TYR:HE2	2:D:201:UNK:N	1.31	1.27
1:C:1270:GLN:CD	1:C:1298:GLU:HG3	1.57	1.27
1:C:1588:ARG:HH22	2:D:193:UNK:C	1.48	1.27
1:A:1475:GLU:OE1	2:F:145:GLN:HB3	1.21	1.27
2:E:119:ALA:O	2:E:123:MET:HG2	1.28	1.26
1:A:1253:TRP:CE3	1:A:1276:ILE:HG22	1.66	1.26
1:A:1395:ILE:HG13	1:A:1404:TYR:CE2	1.68	1.26
2:D:119:ALA:O	2:D:123:MET:HG2	1.28	1.26
1:B:1395:ILE:HG13	1:B:1404:TYR:CE2	1.68	1.26
1:B:1244:ALA:CB	1:B:1275:HIS:ND1	1.98	1.25
1:B:1409:GLN:HA	1:B:1413:GLU:CG	1.66	1.25
1:C:1409:GLN:HA	1:C:1413:GLU:CG	1.65	1.25
1:C:1409:GLN:CA	1:C:1413:GLU:HG2	1.66	1.25
2:D:112:ARG:HD3	2:D:112:ARG:O	1.35	1.25
1:C:1504:LEU:CD1	2:E:149:ASN:ND2	1.99	1.25
1:B:1419:LEU:O	1:B:1422:LEU:HB3	1.36	1.25
1:C:1107:VAL:CG1	1:C:1111:LEU:HB2	1.67	1.24
1:A:1409:GLN:CA	1:A:1413:GLU:HG2	1.65	1.24
1:B:1279:HIS:CD2	1:B:1280:ALA:H	1.54	1.24
1:B:1409:GLN:CA	1:B:1413:GLU:HG2	1.65	1.24
1:C:1434:ARG:NE	2:E:5:UNK:HA	1.53	1.24
1:A:1258:PHE:N	1:A:1289:TYR:CE1	2.06	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1463:VAL:O	1:B:1467:LEU:HB2	1.06	1.24
1:A:1409:GLN:HA	1:A:1413:GLU:CG	1.65	1.23
1:C:1419:LEU:O	1:C:1422:LEU:HB3	1.36	1.23
1:C:1412:LEU:CD1	1:C:1419:LEU:HD21	1.70	1.22
1:C:1429:ARG:CG	1:C:1429:ARG:O	1.78	1.21
2:F:114:GLN:CG	2:F:115:GLU:H	1.48	1.21
2:F:119:ALA:O	2:F:123:MET:HG2	1.36	1.21
2:F:162:GLN:HA	2:F:166:ALA:CB	1.70	1.21
1:B:1395:ILE:CG1	1:B:1404:TYR:CE2	2.24	1.21
1:B:1587:TRP:O	1:B:1589:HIS:N	1.71	1.21
1:A:1412:LEU:CD1	1:A:1419:LEU:HD21	1.70	1.21
1:A:1137:TYR:CB	1:A:1138:MET:HB2	1.71	1.21
1:B:1412:LEU:CD1	1:B:1419:LEU:HD21	1.70	1.21
1:B:1475:GLU:OE1	2:D:145:GLN:HB3	1.05	1.21
1:A:1254:LYS:O	1:A:1289:TYR:CD2	1.94	1.20
1:A:1279:HIS:CE1	1:A:1283:LEU:CD1	2.23	1.20
1:C:1463:VAL:O	1:C:1467:LEU:HB2	1.06	1.20
1:A:1395:ILE:CG1	1:A:1404:TYR:CE2	2.23	1.20
2:E:114:GLN:CG	2:E:115:GLU:H	1.48	1.20
1:A:1463:VAL:O	1:A:1467:LEU:HB2	1.06	1.20
1:B:1358:TRP:CZ2	1:B:1381:HIS:CE1	2.30	1.20
1:B:1588:ARG:CZ	2:F:192:UNK:HA	1.69	1.20
1:A:1258:PHE:HB2	1:A:1289:TYR:CG	1.76	1.19
1:A:1419:LEU:O	1:A:1422:LEU:HB3	1.36	1.19
1:A:1254:LYS:CG	1:A:1285:GLU:OE2	1.86	1.19
1:A:1358:TRP:CZ2	1:A:1381:HIS:CE1	2.30	1.19
1:C:1198:ILE:HB	1:C:1221:VAL:CG2	1.71	1.19
1:C:1253:TRP:CE3	1:C:1276:ILE:HG22	1.66	1.19
1:C:1358:TRP:CZ2	1:C:1381:HIS:CE1	2.30	1.19
1:C:1395:ILE:CG1	1:C:1404:TYR:CE2	2.24	1.19
2:D:114:GLN:CG	2:D:115:GLU:H	1.48	1.19
1:C:1222:SER:C	1:C:1223:ASN:OD1	1.85	1.19
1:B:1253:TRP:CE3	1:B:1276:ILE:HG22	1.66	1.19
1:A:1409:GLN:O	1:A:1413:GLU:HB2	1.42	1.18
1:C:1434:ARG:HE	2:E:5:UNK:CA	1.56	1.18
2:E:114:GLN:HG3	2:E:115:GLU:N	1.46	1.18
1:B:1409:GLN:O	1:B:1413:GLU:HB2	1.41	1.18
1:B:1598:TYR:CE2	2:D:201:UNK:N	2.11	1.18
2:D:174:UNK:HA	2:D:176:UNK:N	1.58	1.18
1:B:1429:ARG:CG	1:B:1429:ARG:O	1.78	1.18
1:C:1408:ILE:HG22	1:C:1412:LEU:HB3	1.20	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1411:TYR:O	1:A:1415:LYS:O	1.62	1.17
1:B:1245:ARG:O	1:B:1246:LYS:HG3	1.39	1.17
1:C:1221:VAL:HG13	1:C:1222:SER:N	1.59	1.17
1:B:1551:GLU:CG	1:B:1582:VAL:HG22	1.76	1.16
1:C:1409:GLN:O	1:C:1413:GLU:HB2	1.41	1.16
1:A:1326:LYS:CG	1:A:1326:LYS:O	1.93	1.16
1:B:1408:ILE:HG22	1:B:1412:LEU:HB3	1.20	1.16
1:B:1361:LEU:CD2	1:B:1365:TYR:CE2	2.28	1.16
1:B:1427:SER:HB2	1:B:1428:PRO:HD3	1.22	1.16
1:B:1509:ARG:HH22	2:D:163:GLN:HA	1.08	1.16
1:C:1326:LYS:CG	1:C:1326:LYS:O	1.93	1.15
2:F:162:GLN:C	2:F:166:ALA:HB3	1.70	1.15
1:B:1358:TRP:HE3	1:B:1377:THR:CG2	1.60	1.15
1:A:1427:SER:CB	1:A:1428:PRO:HD3	1.77	1.15
1:C:1277:VAL:O	1:C:1279:HIS:N	1.80	1.15
1:B:1605:GLU:HA	1:B:1608:THR:HB	1.29	1.15
2:F:183:UNK:HA	2:F:188:UNK:N	1.61	1.15
1:A:1361:LEU:CD2	1:A:1365:TYR:CE2	2.29	1.15
1:B:1427:SER:CB	1:B:1428:PRO:HD3	1.76	1.15
1:C:1427:SER:CB	1:C:1428:PRO:HD3	1.77	1.15
1:C:1361:LEU:CD2	1:C:1365:TYR:CE2	2.28	1.14
1:A:1429:ARG:CG	1:A:1429:ARG:O	1.78	1.14
1:C:1188:GLU:OE2	1:C:1191:ASN:HB2	1.44	1.14
1:B:1327:PHE:HD1	2:D:104:LYS:HE2	0.99	1.14
1:C:1358:TRP:HE3	1:C:1377:THR:CG2	1.60	1.14
1:C:1492:ASN:O	1:C:1493:ILE:HG12	1.45	1.14
1:B:1588:ARG:NH1	2:F:192:UNK:HA	1.62	1.14
1:A:1258:PHE:CB	1:A:1289:TYR:CZ	2.30	1.13
1:A:1492:ASN:O	1:A:1493:ILE:HG13	1.47	1.13
1:C:1490:PHE:CE1	1:C:1492:ASN:OD1	2.01	1.13
1:C:1602:VAL:HG13	2:E:203:UNK:O	1.45	1.13
1:B:1492:ASN:O	1:B:1493:ILE:HG13	1.47	1.13
1:B:1551:GLU:HG2	1:B:1582:VAL:HG22	1.20	1.13
1:A:1258:PHE:CA	1:A:1289:TYR:CZ	2.31	1.13
1:B:1326:LYS:O	1:B:1326:LYS:CG	1.93	1.13
1:B:1490:PHE:CE1	1:B:1492:ASN:OD1	2.01	1.12
2:F:114:GLN:HG3	2:F:115:GLU:N	1.46	1.12
1:A:1358:TRP:HE3	1:A:1377:THR:CG2	1.60	1.12
1:C:1198:ILE:HA	1:C:1201:VAL:HG21	1.29	1.12
1:C:1411:TYR:HA	1:C:1415:LYS:HB3	1.31	1.12
1:B:1412:LEU:HD13	1:B:1419:LEU:HD21	1.12	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1107:VAL:HG12	1:C:1111:LEU:CB	1.79	1.12
1:A:1490:PHE:CE1	1:A:1492:ASN:OD1	2.01	1.12
1:B:1137:TYR:HB2	1:B:1138:MET:CB	1.78	1.12
1:B:1588:ARG:NH2	2:F:192:UNK:HA	1.64	1.12
1:B:1601:GLN:NE2	1:C:1587:TRP:CH2	2.15	1.12
1:A:1221:VAL:HG13	1:A:1222:SER:N	1.59	1.12
1:A:1326:LYS:O	1:A:1326:LYS:HG2	1.33	1.12
1:C:1463:VAL:O	1:C:1467:LEU:CB	1.98	1.11
1:C:1253:TRP:CE3	1:C:1276:ILE:HG21	1.81	1.11
1:A:1427:SER:HB2	1:A:1428:PRO:HD3	1.22	1.11
1:B:1463:VAL:O	1:B:1467:LEU:CB	1.98	1.11
1:C:1326:LYS:O	1:C:1326:LYS:HG2	1.33	1.11
1:A:1427:SER:HB2	1:A:1428:PRO:CD	1.81	1.10
1:C:1427:SER:HB2	1:C:1428:PRO:CD	1.81	1.10
1:A:1578:ARG:CZ	1:A:1583:LEU:HD23	1.81	1.10
1:B:1326:LYS:O	1:B:1326:LYS:HG2	1.33	1.10
1:C:1167:SER:C	1:C:1171:THR:HB	1.75	1.10
1:B:1221:VAL:HG13	1:B:1222:SER:N	1.53	1.10
2:F:195:UNK:CA	2:F:197:UNK:CB	2.29	1.10
1:A:1358:TRP:CH2	1:A:1381:HIS:NE2	2.20	1.10
1:B:1427:SER:HB2	1:B:1428:PRO:CD	1.81	1.10
1:B:1455:VAL:HG12	1:B:1456:GLN:H	1.14	1.10
1:A:1264:LYS:HE2	1:A:1268:LEU:HD12	1.13	1.10
1:A:1463:VAL:O	1:A:1467:LEU:CB	1.98	1.10
1:B:1358:TRP:CZ3	1:B:1381:HIS:NE2	2.20	1.10
1:B:1475:GLU:OE1	2:D:145:GLN:CB	2.00	1.10
1:C:1358:TRP:CZ3	1:C:1381:HIS:NE2	2.20	1.10
1:A:1221:VAL:HG13	1:A:1222:SER:H	1.14	1.09
1:C:1361:LEU:HD21	1:C:1365:TYR:CE2	1.85	1.09
1:C:1427:SER:HB2	1:C:1428:PRO:HD3	1.22	1.09
1:A:1258:PHE:HB2	1:A:1289:TYR:CE2	1.58	1.09
1:B:1358:TRP:O	1:B:1362:VAL:HG23	1.52	1.09
1:C:1190:ILE:HD13	1:C:1216:LEU:HG	1.34	1.09
1:C:1358:TRP:CH2	1:C:1381:HIS:NE2	2.20	1.09
1:C:1504:LEU:HG	2:E:149:ASN:OD1	1.51	1.09
1:C:1578:ARG:CZ	1:C:1583:LEU:HD23	1.81	1.09
2:D:114:GLN:HG3	2:D:115:GLU:N	1.46	1.09
1:B:1411:TYR:CA	1:B:1415:LYS:HB3	1.81	1.09
1:B:1588:ARG:NH2	2:F:192:UNK:CA	2.15	1.09
1:A:1279:HIS:CE1	1:A:1283:LEU:HD11	1.88	1.09
1:A:1416:PRO:CD	2:F:130:LYS:HD3	1.83	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1327:PHE:CD1	2:D:104:LYS:HE2	1.87	1.09
1:B:1358:TRP:CH2	1:B:1381:HIS:NE2	2.20	1.09
1:B:1411:TYR:HA	1:B:1415:LYS:HB3	1.31	1.09
1:B:1578:ARG:CZ	1:B:1583:LEU:HD23	1.81	1.09
1:C:1174:ILE:HG13	1:C:1196:ALA:HA	1.29	1.09
1:C:1230:THR:O	1:C:1231:LEU:HD23	1.53	1.09
1:C:1270:GLN:OE1	1:C:1298:GLU:HB3	1.51	1.09
2:D:181:UNK:CA	2:D:183:UNK:CB	2.30	1.09
1:A:1137:TYR:HB2	1:A:1138:MET:CB	1.84	1.08
1:A:1408:ILE:HG22	1:A:1412:LEU:HB3	1.21	1.08
1:B:1107:VAL:O	1:B:1107:VAL:HG12	1.28	1.08
1:B:1414:PHE:O	2:D:130:LYS:HD3	1.52	1.08
1:A:1295:TYR:CD2	1:A:1299:LEU:HB2	1.89	1.08
1:A:1411:TYR:CA	1:A:1415:LYS:HB3	1.82	1.08
1:A:1358:TRP:CZ3	1:A:1381:HIS:NE2	2.20	1.08
1:C:1411:TYR:CA	1:C:1415:LYS:HB3	1.82	1.08
1:C:1504:LEU:CD1	2:E:149:ASN:HD21	1.58	1.08
1:A:1416:PRO:HG2	2:F:130:LYS:HG2	1.08	1.08
1:A:1416:PRO:HG2	2:F:130:LYS:CG	1.82	1.08
2:D:119:ALA:O	2:D:123:MET:CG	2.02	1.08
1:B:1144:ALA:HB1	1:B:1149:ASN:HB3	1.36	1.07
1:B:1279:HIS:CD2	1:B:1282:GLU:HB3	1.88	1.07
1:B:1361:LEU:HD21	1:B:1365:TYR:CE2	1.86	1.07
1:C:1412:LEU:HD13	1:C:1419:LEU:HD21	1.12	1.07
2:E:104:LYS:O	2:E:108:GLU:HG3	1.51	1.07
2:E:119:ALA:O	2:E:123:MET:CG	2.01	1.07
1:A:1358:TRP:O	1:A:1362:VAL:HG23	1.52	1.07
1:B:1122:LYS:HA	1:B:1125:ILE:HG22	1.36	1.07
1:B:1416:PRO:HD3	2:D:130:LYS:HD3	1.34	1.07
1:C:1234:LEU:HD23	1:C:1264:LYS:NZ	1.68	1.07
1:C:1264:LYS:HE2	1:C:1268:LEU:HD12	1.13	1.07
1:A:1605:GLU:HA	1:A:1608:THR:HB	1.29	1.07
1:C:1177:LEU:HD13	1:C:1189:PHE:HZ	1.07	1.07
1:C:1270:GLN:OE1	1:C:1298:GLU:CB	2.02	1.07
1:A:1253:TRP:CE3	1:A:1276:ILE:HG21	1.82	1.07
1:A:1361:LEU:HD21	1:A:1365:TYR:CE2	1.86	1.07
1:A:1412:LEU:HD13	1:A:1419:LEU:HD21	1.12	1.07
1:B:1490:PHE:CZ	1:B:1492:ASN:OD1	2.08	1.07
2:D:137:GLU:O	2:D:141:ARG:NH2	1.88	1.07
2:F:162:GLN:CA	2:F:166:ALA:CB	2.33	1.07
1:B:1253:TRP:CE3	1:B:1276:ILE:HG21	1.82	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1198:ILE:O	1:C:1201:VAL:HB	1.54	1.06
1:A:1490:PHE:CZ	1:A:1492:ASN:OD1	2.09	1.06
1:C:1221:VAL:HG13	1:C:1222:SER:H	1.13	1.06
2:D:174:UNK:CB	2:D:177:UNK:CB	2.33	1.06
1:A:1455:VAL:HG12	1:A:1456:GLN:H	1.14	1.06
1:C:1290:TYR:CD2	1:C:1299:LEU:HD22	1.90	1.06
1:C:1358:TRP:O	1:C:1362:VAL:HG23	1.53	1.06
1:C:1455:VAL:HG12	1:C:1456:GLN:H	1.14	1.06
2:F:195:UNK:HA	2:F:197:UNK:CB	1.84	1.06
1:B:1416:PRO:HG2	2:D:130:LYS:HG2	1.30	1.06
1:C:1167:SER:O	1:C:1171:THR:CB	2.02	1.06
1:B:1264:LYS:HE2	1:B:1268:LEU:HD12	1.12	1.06
1:C:1082:VAL:HG22	1:C:1107:VAL:HG21	1.38	1.06
1:C:1222:SER:C	1:C:1223:ASN:CG	2.23	1.06
2:F:163:GLN:N	2:F:166:ALA:HB3	1.70	1.06
1:A:1283:LEU:HD22	1:A:1313:HIS:NE2	1.70	1.05
1:C:1605:GLU:HA	1:C:1608:THR:HB	1.29	1.05
1:C:1588:ARG:NH2	2:D:193:UNK:CA	2.19	1.05
1:A:1167:SER:C	1:A:1168:TYR:CD1	2.34	1.05
1:B:1264:LYS:HE2	1:B:1268:LEU:CD1	1.77	1.05
1:B:1417:LEU:O	1:B:1418:LEU:HB2	1.53	1.05
1:B:1509:ARG:HH22	2:D:163:GLN:CA	1.68	1.05
1:B:1588:ARG:HH22	2:F:192:UNK:CA	1.67	1.05
1:C:1414:PHE:HE1	2:E:127:TRP:CZ3	1.74	1.05
2:E:155:ILE:HD12	2:E:155:ILE:H	1.19	1.05
1:C:1382:PRO:HD2	2:E:115:GLU:OE2	1.56	1.04
1:A:1411:TYR:HA	1:A:1415:LYS:HB3	1.35	1.04
1:A:1411:TYR:C	1:A:1415:LYS:HB3	1.81	1.04
1:C:1387:LYS:HB2	1:C:1390:GLN:CB	1.88	1.04
1:A:1111:LEU:HD11	1:A:1125:ILE:CG1	1.87	1.04
1:B:1387:LYS:HB2	1:B:1390:GLN:CB	1.87	1.04
1:B:1416:PRO:HG2	2:D:130:LYS:CG	1.86	1.04
1:C:1264:LYS:HE3	1:C:1268:LEU:CD1	1.80	1.04
1:C:1115:GLN:HB3	1:C:1125:ILE:HG12	1.35	1.04
2:D:181:UNK:HA	2:D:183:UNK:CB	1.85	1.04
1:A:1250:THR:O	1:A:1251:ARG:CG	2.06	1.04
1:A:1361:LEU:CD2	1:A:1365:TYR:HE2	1.70	1.04
1:A:1411:TYR:O	1:A:1415:LYS:HB3	1.56	1.04
1:A:1588:ARG:NH2	2:E:192:UNK:HA	1.72	1.04
1:B:1290:TYR:CD2	1:B:1299:LEU:CD1	2.39	1.04
1:C:1122:LYS:HA	1:C:1125:ILE:HG22	1.40	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1490:PHE:CZ	1:C:1492:ASN:OD1	2.09	1.04
2:E:189:UNK:O	2:E:195:UNK:CB	2.06	1.04
1:A:1107:VAL:HG12	1:A:1107:VAL:O	1.28	1.03
1:A:1387:LYS:HB2	1:A:1390:GLN:CB	1.88	1.03
1:A:1408:ILE:HG22	1:A:1412:LEU:CB	1.87	1.03
1:B:1408:ILE:HG22	1:B:1412:LEU:CB	1.87	1.03
1:C:1456:GLN:CG	1:C:1456:GLN:O	1.97	1.03
1:A:1563:ARG:HH22	2:F:181:UNK:HA	1.19	1.03
2:D:174:UNK:H	2:D:175:UNK:CB	1.70	1.03
1:B:1279:HIS:NE2	1:B:1283:LEU:HD12	1.73	1.03
1:B:1416:PRO:CD	2:D:130:LYS:HD3	1.88	1.03
1:C:1429:ARG:O	1:C:1429:ARG:HG2	1.22	1.03
1:B:1279:HIS:NE2	1:B:1283:LEU:CD1	2.21	1.03
1:C:1408:ILE:HG22	1:C:1412:LEU:CB	1.87	1.03
1:A:1300:ILE:HG22	1:A:1323:LEU:HD13	1.39	1.02
1:C:1199:GLN:O	1:C:1201:VAL:N	1.92	1.02
1:C:1382:PRO:HD2	2:E:115:GLU:CD	1.84	1.02
1:B:1250:THR:O	1:B:1251:ARG:CG	2.07	1.02
1:B:1521:TRP:CE3	1:B:1522:LYS:HD2	1.95	1.02
1:C:1417:LEU:O	1:C:1418:LEU:HB2	1.53	1.02
2:D:98:GLU:HB3	2:D:99:PRO:HD3	1.40	1.02
1:A:1417:LEU:O	1:A:1418:LEU:HB2	1.53	1.02
1:B:1300:ILE:HG22	1:B:1323:LEU:HD13	1.40	1.02
1:B:1411:TYR:O	1:B:1415:LYS:HB3	1.60	1.02
1:C:1234:LEU:HD23	1:C:1264:LYS:HZ2	1.25	1.02
1:A:1122:LYS:HA	1:A:1125:ILE:HG22	1.40	1.02
1:A:1429:ARG:O	1:A:1429:ARG:HG2	1.22	1.02
1:C:1198:ILE:HA	1:C:1201:VAL:CG2	1.88	1.02
1:C:1596:MET:H	1:C:1597:PRO:HD2	1.23	1.02
1:B:1261:VAL:HG13	1:B:1295:TYR:CZ	1.95	1.01
1:B:1509:ARG:NH2	2:D:163:GLN:HA	1.72	1.01
1:C:1211:TYR:CG	1:C:1231:LEU:HD22	1.94	1.01
1:C:1411:TYR:C	1:C:1415:LYS:HB3	1.84	1.01
1:C:1521:TRP:CE3	1:C:1522:LYS:HD2	1.95	1.01
1:A:1408:ILE:O	1:A:1412:LEU:N	1.94	1.01
1:C:1250:THR:O	1:C:1251:ARG:CG	2.06	1.01
1:C:1300:ILE:HG22	1:C:1323:LEU:HD13	1.39	1.01
1:A:1107:VAL:O	1:A:1107:VAL:CG1	2.04	1.01
1:A:1456:GLN:O	1:A:1456:GLN:HG2	1.60	1.01
1:A:1596:MET:H	1:A:1597:PRO:HD2	1.26	1.01
1:B:1429:ARG:O	1:B:1429:ARG:HG2	1.22	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1587:TRP:C	1:B:1589:HIS:H	1.66	1.01
1:A:1358:TRP:CE3	1:A:1377:THR:HG23	1.96	1.01
1:A:1521:TRP:CE3	1:A:1522:LYS:HD2	1.95	1.01
1:C:1358:TRP:CE3	1:C:1377:THR:HG23	1.96	1.01
1:A:1620:ARG:CB	1:A:1620:ARG:HH11	1.74	1.00
1:B:1358:TRP:CE3	1:B:1377:THR:HG23	1.96	1.00
1:B:1361:LEU:HD23	1:B:1361:LEU:O	1.61	1.00
1:B:1411:TYR:C	1:B:1415:LYS:HB3	1.84	1.00
1:C:1361:LEU:O	1:C:1361:LEU:HD23	1.61	1.00
1:C:1620:ARG:HB2	1:C:1620:ARG:HH11	1.25	1.00
1:C:1414:PHE:CE1	2:E:123:MET:HB3	1.97	1.00
1:B:1107:VAL:O	1:B:1107:VAL:CG1	2.04	1.00
2:F:119:ALA:O	2:F:123:MET:CG	2.08	1.00
1:A:1253:TRP:HE3	1:A:1276:ILE:HG21	1.26	1.00
1:A:1280:ALA:HB2	1:A:1311:ARG:NE	1.75	1.00
1:C:1411:TYR:O	1:C:1415:LYS:HB3	1.60	1.00
1:B:1129:ILE:O	1:B:1131:ALA:N	1.95	1.00
1:B:1167:SER:C	1:B:1168:TYR:CD1	2.40	1.00
1:C:1361:LEU:CD2	1:C:1365:TYR:HE2	1.70	1.00
1:B:1244:ALA:CB	1:B:1275:HIS:CE1	2.41	1.00
1:B:1620:ARG:HH11	1:B:1620:ARG:CB	1.74	1.00
2:F:162:GLN:HA	2:F:166:ALA:HB2	1.03	1.00
1:A:1361:LEU:O	1:A:1361:LEU:HD23	1.61	0.99
1:C:1296:PHE:O	1:C:1299:LEU:N	1.95	0.99
1:A:1129:ILE:O	1:A:1131:ALA:N	1.94	0.99
1:A:1579:PRO:HB3	1:C:1605:GLU:OE2	1.62	0.99
1:B:1150:TRP:CE3	2:D:5:UNK:HA	1.95	0.99
1:B:1296:PHE:O	1:B:1299:LEU:N	1.95	0.99
1:B:1620:ARG:HH11	1:B:1620:ARG:HB2	1.25	0.99
1:C:1326:LYS:O	1:C:1327:PHE:CD1	2.15	0.99
1:A:1358:TRP:HE3	1:A:1377:THR:HG23	1.28	0.99
1:C:1408:ILE:O	1:C:1412:LEU:N	1.95	0.99
1:C:1264:LYS:HE2	1:C:1268:LEU:CD1	1.77	0.99
1:A:1620:ARG:HH11	1:A:1620:ARG:HB2	1.24	0.99
1:A:1326:LYS:O	1:A:1327:PHE:CD1	2.15	0.99
1:A:1358:TRP:CZ3	1:A:1381:HIS:CD2	2.51	0.99
1:C:1620:ARG:HH11	1:C:1620:ARG:CB	1.75	0.99
1:C:1358:TRP:CZ3	1:C:1381:HIS:CD2	2.51	0.99
1:C:1198:ILE:HB	1:C:1221:VAL:HG22	1.42	0.99
1:A:1296:PHE:O	1:A:1299:LEU:N	1.95	0.98
1:B:1326:LYS:O	1:B:1327:PHE:CD1	2.15	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1563:ARG:NH2	2:D:183:UNK:O	1.96	0.98
1:C:1358:TRP:CE3	1:C:1377:THR:CG2	2.46	0.98
1:B:1358:TRP:CE3	1:B:1377:THR:CG2	2.46	0.98
1:B:1586:ALA:O	1:B:1590:ASN:OD1	1.80	0.98
1:B:1596:MET:H	1:B:1597:PRO:HD2	1.27	0.98
1:C:1198:ILE:O	1:C:1199:GLN:O	1.81	0.98
1:C:1602:VAL:CG1	2:E:203:UNK:C	2.41	0.98
1:B:1411:TYR:HA	1:B:1415:LYS:CB	1.93	0.98
1:B:1456:GLN:CG	1:B:1456:GLN:O	1.97	0.98
1:C:1358:TRP:HE3	1:C:1377:THR:HG23	1.28	0.98
1:A:1264:LYS:HE2	1:A:1268:LEU:CD1	1.77	0.98
1:A:1358:TRP:CE3	1:A:1377:THR:CG2	2.46	0.98
1:B:1408:ILE:O	1:B:1412:LEU:N	1.95	0.98
1:B:1456:GLN:O	1:B:1456:GLN:HG2	1.60	0.98
1:C:1411:TYR:HA	1:C:1415:LYS:CB	1.93	0.98
1:A:1280:ALA:HB2	1:A:1311:ARG:HE	1.27	0.98
1:A:1371:TYR:CD1	1:A:1394:ILE:CG2	2.36	0.98
1:A:1371:TYR:HD1	1:A:1394:ILE:HG23	0.81	0.97
1:A:1588:ARG:HD3	2:E:195:UNK:CB	1.94	0.97
1:A:1254:LYS:C	1:A:1289:TYR:CE2	2.41	0.97
1:B:1358:TRP:CZ3	1:B:1381:HIS:CD2	2.51	0.97
1:C:1177:LEU:HD13	1:C:1189:PHE:CZ	1.98	0.97
1:A:1223:ASN:N	1:A:1223:ASN:HA	1.77	0.97
1:A:1456:GLN:O	1:A:1456:GLN:CG	1.97	0.97
1:B:1232:VAL:HG22	1:B:1233:HIS:H	1.27	0.97
1:B:1587:TRP:C	1:B:1589:HIS:N	2.17	0.97
1:B:1597:PRO:HG3	1:B:1600:ILE:HD12	1.43	0.97
2:D:181:UNK:C	2:D:183:UNK:CB	2.41	0.97
1:B:1358:TRP:CZ2	1:B:1381:HIS:ND1	2.33	0.97
1:C:1456:GLN:O	1:C:1456:GLN:HG2	1.60	0.97
1:A:1372:ASP:O	1:A:1376:ILE:HG13	1.65	0.97
2:E:108:GLU:OE2	2:E:109:GLN:HG2	1.62	0.97
1:C:1371:TYR:HD1	1:C:1394:ILE:HG23	0.81	0.97
2:F:162:GLN:CA	2:F:166:ALA:HB2	1.92	0.97
1:B:1395:ILE:HG12	1:B:1404:TYR:CE2	1.99	0.97
1:B:1264:LYS:HE3	1:B:1268:LEU:CD1	1.80	0.96
2:F:151:ILE:O	2:F:154:ARG:HB2	1.65	0.96
1:C:1244:ALA:N	1:C:1275:HIS:CE1	2.31	0.96
2:F:195:UNK:C	2:F:197:UNK:CB	2.42	0.96
1:A:1254:LYS:O	1:A:1289:TYR:HD2	1.45	0.96
1:A:1395:ILE:HG12	1:A:1404:TYR:CE2	1.99	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1301:THR:HA	1:B:1304:GLU:HG3	1.47	0.96
1:C:1301:THR:HA	1:C:1304:GLU:HG3	1.47	0.96
1:C:1588:ARG:NH2	2:D:193:UNK:N	2.13	0.96
2:D:151:ILE:O	2:D:154:ARG:HB2	1.65	0.96
2:D:174:UNK:HA	2:D:177:UNK:N	1.80	0.96
1:A:1111:LEU:HD11	1:A:1125:ILE:HG12	1.47	0.96
1:A:1409:GLN:CA	1:A:1413:GLU:CG	2.35	0.96
1:A:1597:PRO:HG3	1:A:1600:ILE:HD12	1.43	0.96
2:E:202:UNK:O	2:E:203:UNK:C	2.14	0.96
1:A:1282:GLU:HG3	1:A:1283:LEU:H	1.30	0.96
1:A:1358:TRP:CZ2	1:A:1381:HIS:ND1	2.33	0.96
1:B:1371:TYR:HD1	1:B:1394:ILE:HG23	0.81	0.96
1:B:1221:VAL:HG13	1:B:1222:SER:H	1.29	0.96
1:B:1290:TYR:HB3	1:B:1299:LEU:HD22	1.47	0.96
2:E:151:ILE:O	2:E:154:ARG:HB2	1.65	0.96
1:A:1232:VAL:HG22	1:A:1233:HIS:H	1.26	0.96
1:B:1372:ASP:O	1:B:1376:ILE:HG13	1.65	0.96
1:A:1111:LEU:O	1:A:1111:LEU:HD22	1.65	0.96
1:C:1368:TYR:CD1	1:C:1370:GLU:HG2	2.01	0.95
1:C:1597:PRO:HG3	1:C:1600:ILE:HD12	1.44	0.95
1:A:1174:ILE:HG21	1:A:1201:VAL:HG22	1.47	0.95
1:A:1264:LYS:HE3	1:A:1268:LEU:CD1	1.80	0.95
1:B:1111:LEU:O	1:B:1111:LEU:HD22	1.66	0.95
1:B:1267:ARG:NH2	1:B:1298:GLU:OE2	1.99	0.95
1:B:1174:ILE:HG21	1:B:1201:VAL:HG22	1.48	0.95
2:F:126:GLU:HG3	2:F:130:LYS:HZ1	1.31	0.95
1:B:1282:GLU:HG3	1:B:1283:LEU:H	1.30	0.95
1:C:1358:TRP:CZ2	1:C:1381:HIS:ND1	2.33	0.95
1:B:1414:PHE:O	2:D:130:LYS:CD	2.14	0.95
1:C:1234:LEU:CD2	1:C:1264:LYS:NZ	2.29	0.95
1:A:1279:HIS:CD2	1:A:1282:GLU:H	1.84	0.95
1:B:1358:TRP:HE3	1:B:1377:THR:HG23	1.28	0.95
1:C:1111:LEU:O	1:C:1111:LEU:HD22	1.65	0.95
1:A:1258:PHE:N	1:A:1289:TYR:OH	1.76	0.95
1:A:1282:GLU:O	1:A:1283:LEU:HB2	1.67	0.95
1:A:1368:TYR:CD1	1:A:1370:GLU:HG2	2.02	0.95
1:C:1395:ILE:HG12	1:C:1404:TYR:CE2	1.99	0.95
1:B:1368:TYR:CD1	1:B:1370:GLU:HG2	2.02	0.94
1:C:1254:LYS:HD2	1:C:1285:GLU:CG	1.96	0.94
2:E:133:LYS:HA	2:E:133:LYS:NZ	1.82	0.94
2:F:133:LYS:HA	2:F:133:LYS:NZ	1.82	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1472:ILE:HA	1:B:1507:PHE:HE1	1.32	0.94
1:A:1411:TYR:HA	1:A:1415:LYS:CB	1.97	0.94
2:E:198:UNK:O	2:E:202:UNK:CB	2.15	0.94
1:B:1361:LEU:CD2	1:B:1365:TYR:HE2	1.70	0.94
1:A:1116:LEU:CD1	1:A:1122:LYS:HD3	1.98	0.94
1:B:1412:LEU:HB2	1:B:1419:LEU:CD1	1.97	0.94
2:D:133:LYS:HA	2:D:133:LYS:NZ	1.82	0.94
2:E:104:LYS:O	2:E:108:GLU:HG2	1.66	0.94
1:A:1412:LEU:HB2	1:A:1419:LEU:CD1	1.97	0.94
1:A:1472:ILE:HA	1:A:1507:PHE:HE1	1.32	0.94
1:C:1588:ARG:NH2	2:D:193:UNK:C	2.30	0.94
1:B:1551:GLU:HG2	1:B:1582:VAL:CG2	1.96	0.94
1:C:1253:TRP:HE3	1:C:1276:ILE:HG21	1.25	0.94
1:C:1270:GLN:CD	1:C:1298:GLU:CG	2.40	0.94
2:D:112:ARG:C	2:D:112:ARG:CD	2.38	0.94
2:D:185:UNK:HA	2:D:189:UNK:O	1.68	0.94
2:D:126:GLU:HG3	2:D:130:LYS:HZ1	1.32	0.94
2:D:174:UNK:CA	2:D:177:UNK:N	2.31	0.94
2:E:189:UNK:HA	2:E:195:UNK:N	1.83	0.94
1:C:1434:ARG:HE	2:E:5:UNK:HA	0.79	0.93
1:A:1290:TYR:CD2	1:A:1299:LEU:HD13	2.04	0.93
1:A:1301:THR:HA	1:A:1304:GLU:HG3	1.48	0.93
1:A:1409:GLN:CG	1:A:1413:GLU:CG	2.34	0.93
1:B:1253:TRP:HE3	1:B:1276:ILE:HG21	1.26	0.93
1:C:1107:VAL:HG12	1:C:1111:LEU:HB2	0.94	0.93
1:C:1186:LEU:HD22	1:C:1213:ALA:CB	1.99	0.93
1:A:1244:ALA:CB	1:A:1275:HIS:CE1	2.42	0.93
1:A:1258:PHE:CA	1:A:1289:TYR:CE1	2.50	0.93
1:B:1408:ILE:CG2	1:B:1412:LEU:CB	2.46	0.93
1:C:1412:LEU:HB2	1:C:1419:LEU:CD1	1.97	0.93
1:B:1280:ALA:O	1:B:1313:HIS:CE1	2.22	0.93
1:B:1362:VAL:HG22	1:B:1377:THR:CB	1.99	0.93
2:D:181:UNK:C	2:D:183:UNK:N	2.20	0.93
1:A:1257:CYS:N	1:A:1289:TYR:OH	2.02	0.93
1:B:1405:TYR:CD2	1:B:1434:ARG:NH1	2.37	0.93
1:B:1412:LEU:CD1	1:B:1419:LEU:CD2	2.47	0.93
1:A:1332:MET:HE2	1:A:1357:LEU:HD13	1.51	0.93
1:A:1408:ILE:CG2	1:A:1412:LEU:CB	2.46	0.93
1:C:1412:LEU:CD1	1:C:1419:LEU:CD2	2.47	0.93
1:C:1450:PRO:HA	1:C:1453:ARG:HG2	1.51	0.93
2:F:162:GLN:CA	2:F:166:ALA:HB3	1.95	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1408:ILE:CG2	1:B:1412:LEU:CD2	2.47	0.93
1:B:1409:GLN:CA	1:B:1413:GLU:CG	2.35	0.93
1:C:1222:SER:O	1:C:1223:ASN:CG	2.12	0.93
1:A:1412:LEU:CD1	1:A:1419:LEU:CD2	2.47	0.92
1:C:1221:VAL:CG1	1:C:1222:SER:N	2.31	0.92
1:A:1362:VAL:HG22	1:A:1377:THR:CB	1.99	0.92
1:C:1405:TYR:CD2	1:C:1434:ARG:NH1	2.37	0.92
2:F:195:UNK:C	2:F:197:UNK:N	2.19	0.92
1:C:1620:ARG:HH11	1:C:1620:ARG:CG	1.83	0.92
1:A:1264:LYS:HE3	1:A:1268:LEU:HD12	0.92	0.92
1:A:1408:ILE:CG2	1:A:1412:LEU:CD2	2.47	0.92
1:B:1222:SER:OG	1:B:1223:ASN:N	1.96	0.92
2:D:112:ARG:O	2:D:113:LEU:O	1.86	0.92
1:A:1405:TYR:CD2	1:A:1434:ARG:NH1	2.37	0.92
1:B:1264:LYS:HE3	1:B:1268:LEU:HD12	0.92	0.92
1:B:1279:HIS:HD2	1:B:1280:ALA:H	1.16	0.92
1:B:1332:MET:HE2	1:B:1357:LEU:HD13	1.51	0.92
1:C:1362:VAL:HG22	1:C:1377:THR:CB	1.99	0.92
1:C:1408:ILE:CG2	1:C:1412:LEU:CB	2.46	0.92
1:C:1408:ILE:CG2	1:C:1412:LEU:CD2	2.47	0.92
1:C:1409:GLN:CA	1:C:1413:GLU:CG	2.35	0.92
1:C:1472:ILE:HA	1:C:1507:PHE:HE1	1.32	0.92
1:A:1258:PHE:HB3	1:A:1289:TYR:HE2	1.27	0.92
1:A:1600:ILE:HA	1:A:1603:MET:HE3	1.52	0.92
2:D:174:UNK:N	2:D:175:UNK:CB	2.32	0.92
1:A:1535:LYS:HZ3	2:F:181:UNK:CB	1.82	0.92
1:B:1282:GLU:O	1:B:1283:LEU:HB2	1.67	0.91
1:C:1190:ILE:CD1	1:C:1216:LEU:HG	2.00	0.91
2:E:126:GLU:HG3	2:E:130:LYS:HZ1	1.35	0.91
1:A:1116:LEU:HD11	1:A:1122:LYS:HD3	1.50	0.91
1:A:1258:PHE:H	1:A:1289:TYR:HH	1.04	0.91
1:B:1333:ARG:HB2	1:B:1360:GLU:OE2	1.70	0.91
1:B:1416:PRO:CG	2:D:130:LYS:HG2	1.99	0.91
1:C:1256:VAL:O	1:C:1260:CYS:SG	2.28	0.91
1:A:1333:ARG:HB2	1:A:1360:GLU:OE2	1.70	0.91
1:B:1279:HIS:CD2	1:B:1280:ALA:N	2.38	0.91
1:B:1371:TYR:CD1	1:B:1394:ILE:CG2	2.35	0.91
1:B:1409:GLN:CG	1:B:1413:GLU:CG	2.34	0.91
2:E:98:GLU:HA	2:E:101:SER:HB3	1.52	0.91
1:A:1136:SER:N	1:A:1141:VAL:HG21	1.85	0.91
1:A:1303:LEU:HD12	1:A:1320:LEU:HD13	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1232:VAL:C	1:B:1234:LEU:H	1.78	0.91
1:C:1115:GLN:CB	1:C:1125:ILE:HG12	2.01	0.91
1:A:1416:PRO:CG	2:F:130:LYS:HG2	1.99	0.91
1:C:1332:MET:HE2	1:C:1357:LEU:HD13	1.51	0.91
1:A:1256:VAL:O	1:A:1260:CYS:SG	2.29	0.91
1:C:1224:PHE:CZ	1:C:1246:LYS:NZ	2.39	0.91
1:B:1290:TYR:HD2	1:B:1299:LEU:CD1	1.80	0.91
1:C:1253:TRP:HZ3	1:C:1276:ILE:HG22	1.34	0.91
1:A:1395:ILE:HG13	1:A:1404:TYR:CZ	2.06	0.91
1:C:1586:ALA:HB1	1:C:1590:ASN:HD21	1.34	0.91
2:D:174:UNK:HA	2:D:175:UNK:C	2.00	0.91
1:B:1395:ILE:HG13	1:B:1404:TYR:CZ	2.05	0.91
2:D:174:UNK:CB	2:D:177:UNK:N	2.33	0.91
1:A:1450:PRO:HA	1:A:1453:ARG:HG2	1.51	0.90
1:A:1261:VAL:HG11	1:A:1295:TYR:CD1	2.05	0.90
1:A:1620:ARG:HH11	1:A:1620:ARG:CG	1.83	0.90
1:B:1256:VAL:O	1:B:1260:CYS:SG	2.28	0.90
1:B:1620:ARG:HB2	1:B:1620:ARG:NH1	1.86	0.90
1:C:1244:ALA:C	1:C:1275:HIS:CE1	2.46	0.90
1:A:1408:ILE:CG2	1:A:1412:LEU:HB3	2.01	0.90
1:B:1620:ARG:HH11	1:B:1620:ARG:CG	1.83	0.90
1:B:1412:LEU:HB2	1:B:1419:LEU:HD11	1.54	0.90
1:C:1620:ARG:HB2	1:C:1620:ARG:NH1	1.87	0.90
1:C:1154:VAL:HG21	1:C:1180:THR:HG23	1.52	0.90
1:C:1264:LYS:HE3	1:C:1268:LEU:HD12	0.92	0.90
1:C:1333:ARG:HB2	1:C:1360:GLU:OE2	1.70	0.90
1:C:1395:ILE:HG13	1:C:1404:TYR:CZ	2.06	0.90
1:A:1232:VAL:C	1:A:1234:LEU:H	1.78	0.90
1:C:1290:TYR:HE2	1:C:1299:LEU:HD13	1.05	0.90
1:C:1412:LEU:HA	1:C:1419:LEU:HD22	1.54	0.90
1:B:1129:ILE:O	1:B:1130:LYS:C	2.12	0.90
1:B:1391:PHE:CG	1:B:1411:TYR:OH	2.24	0.90
1:C:1391:PHE:CG	1:C:1411:TYR:OH	2.24	0.90
1:C:1408:ILE:CG2	1:C:1412:LEU:HB3	2.00	0.90
1:C:1600:ILE:HA	1:C:1603:MET:HE3	1.51	0.90
1:A:1391:PHE:CG	1:A:1411:TYR:OH	2.24	0.90
1:B:1450:PRO:HA	1:B:1453:ARG:HG2	1.51	0.90
1:B:1601:GLN:HG2	1:C:1587:TRP:HH2	1.37	0.90
1:B:1600:ILE:HA	1:B:1603:MET:HE3	1.52	0.89
1:C:1290:TYR:CD2	1:C:1299:LEU:HD13	2.07	0.89
1:A:1171:THR:HA	1:A:1174:ILE:HD12	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1412:LEU:HB2	1:A:1419:LEU:HD11	1.54	0.89
1:B:1596:MET:SD	1:B:1597:PRO:HD3	2.12	0.89
1:A:1224:PHE:O	1:A:1227:LEU:HB3	1.72	0.89
1:B:1303:LEU:HD12	1:B:1320:LEU:HD13	1.52	0.89
1:A:1620:ARG:HB2	1:A:1620:ARG:NH1	1.86	0.89
1:B:1224:PHE:O	1:B:1227:LEU:HB3	1.72	0.89
1:C:1154:VAL:HG21	1:C:1180:THR:CG2	2.02	0.89
1:C:1224:PHE:O	1:C:1227:LEU:HB3	1.73	0.89
1:C:1409:GLN:CB	1:C:1413:GLU:HG3	2.02	0.89
1:B:1150:TRP:CZ3	2:D:5:UNK:HA	2.07	0.89
1:C:1218:TYR:HA	1:C:1221:VAL:HG12	1.55	0.89
2:E:202:UNK:C	2:E:203:UNK:C	2.50	0.89
1:A:1258:PHE:HB3	1:A:1289:TYR:CZ	1.99	0.89
1:A:1264:LYS:HE2	1:A:1268:LEU:HB2	1.54	0.89
1:A:1584:GLU:HG3	1:A:1587:TRP:CE3	2.08	0.89
1:A:1129:ILE:O	1:A:1130:LYS:C	2.12	0.89
1:A:1521:TRP:HE3	1:A:1522:LYS:HD2	1.32	0.89
1:B:1218:TYR:HA	1:B:1221:VAL:HG12	1.54	0.89
1:B:1584:GLU:HG3	1:B:1587:TRP:CE3	2.08	0.89
1:B:1588:ARG:NH2	2:F:192:UNK:N	2.21	0.89
1:C:1198:ILE:O	1:C:1201:VAL:CB	2.20	0.89
1:C:1412:LEU:HB2	1:C:1419:LEU:HD11	1.53	0.89
1:C:1521:TRP:HE3	1:C:1522:LYS:HD2	1.32	0.89
1:C:1409:GLN:CG	1:C:1413:GLU:CG	2.34	0.89
1:C:1411:TYR:O	1:C:1415:LYS:CA	2.21	0.89
2:E:114:GLN:HG3	2:E:115:GLU:H	0.72	0.89
1:B:1408:ILE:CG2	1:B:1412:LEU:HB3	2.00	0.88
1:C:1465:GLU:O	1:C:1465:GLU:CD	2.16	0.88
1:A:1412:LEU:HA	1:A:1419:LEU:HD22	1.54	0.88
1:B:1412:LEU:HA	1:B:1419:LEU:HD22	1.55	0.88
1:C:1270:GLN:CG	1:C:1298:GLU:HG3	2.02	0.88
1:C:1303:LEU:HD12	1:C:1320:LEU:HD13	1.52	0.88
1:C:1427:SER:CB	1:C:1428:PRO:CD	2.44	0.88
1:C:1504:LEU:HD11	2:E:149:ASN:CG	1.96	0.88
1:B:1253:TRP:HZ3	1:B:1276:ILE:HG22	1.33	0.88
1:B:1465:GLU:O	1:B:1465:GLU:CD	2.16	0.88
1:C:1584:GLU:HG3	1:C:1587:TRP:CE3	2.08	0.88
2:D:155:ILE:HG12	2:D:161:TYR:CB	2.02	0.88
1:A:1188:GLU:OE2	1:A:1191:ASN:O	1.92	0.88
1:B:1409:GLN:CB	1:B:1413:GLU:HG3	2.03	0.88
2:D:112:ARG:O	2:D:112:ARG:CD	2.21	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1171:THR:HA	1:B:1174:ILE:HD12	1.54	0.88
1:B:1521:TRP:HE3	1:B:1522:LYS:HD2	1.32	0.88
1:B:1601:GLN:CG	1:C:1587:TRP:HH2	1.87	0.88
1:C:1211:TYR:HD1	1:C:1231:LEU:CD2	1.56	0.88
1:A:1108:TRP:NE1	1:A:1131:ALA:HB3	1.89	0.88
1:A:1465:GLU:O	1:A:1465:GLU:CD	2.17	0.88
1:C:1192:GLY:H	1:C:1193:PRO:HD3	1.37	0.88
1:C:1505:ILE:HA	1:C:1508:ARG:HB2	1.55	0.88
1:C:1234:LEU:CD2	1:C:1264:LYS:HZ3	1.86	0.88
1:B:1221:VAL:CG1	1:B:1222:SER:N	2.31	0.88
1:B:1411:TYR:O	1:B:1415:LYS:CA	2.21	0.88
1:C:1211:TYR:CD1	1:C:1231:LEU:HD21	2.05	0.88
1:C:1222:SER:O	1:C:1223:ASN:HB2	1.07	0.88
2:F:198:UNK:HA	2:F:201:UNK:CB	2.01	0.88
1:A:1221:VAL:CG1	1:A:1222:SER:N	2.31	0.88
1:A:1409:GLN:CB	1:A:1413:GLU:HG3	2.03	0.88
1:C:1372:ASP:O	1:C:1376:ILE:HG12	1.73	0.88
2:D:65:UNK:O	2:D:69:UNK:CB	2.22	0.88
1:B:1333:ARG:HB2	1:B:1360:GLU:CG	2.04	0.87
1:B:1264:LYS:HE2	1:B:1268:LEU:HB2	1.54	0.87
1:B:1425:VAL:HG23	1:B:1426:LEU:H	1.38	0.87
1:B:1572:THR:HG21	1:B:1599:PHE:CD2	2.10	0.87
1:C:1254:LYS:NZ	1:C:1285:GLU:O	2.05	0.87
2:F:114:GLN:HG3	2:F:115:GLU:H	0.72	0.87
1:C:1371:TYR:CD1	1:C:1394:ILE:CG2	2.36	0.87
1:C:1521:TRP:HZ3	1:C:1522:LYS:HZ2	0.90	0.87
1:C:1181:ASN:O	1:C:1182:ARG:HD3	1.73	0.87
1:C:1264:LYS:HE2	1:C:1268:LEU:HB2	1.54	0.87
1:C:1425:VAL:HG23	1:C:1426:LEU:H	1.38	0.87
1:A:1333:ARG:HB2	1:A:1360:GLU:CG	2.05	0.87
1:C:1270:GLN:OE1	1:C:1298:GLU:CG	2.23	0.87
2:D:185:UNK:HA	2:D:189:UNK:C	2.03	0.87
1:B:1198:ILE:HG23	1:B:1201:VAL:HB	1.57	0.87
1:B:1505:ILE:HA	1:B:1508:ARG:HB2	1.56	0.87
1:A:1218:TYR:HA	1:A:1221:VAL:HG12	1.55	0.87
1:A:1505:ILE:HA	1:A:1508:ARG:HB2	1.56	0.87
1:B:1149:ASN:O	1:B:1153:LEU:HB2	1.74	0.87
1:C:1127:SER:HA	1:C:1156:TYR:OH	1.75	0.87
2:E:126:GLU:HG3	2:E:130:LYS:NZ	1.90	0.86
1:A:1472:ILE:HG21	1:A:1498:ARG:HE	1.40	0.86
1:A:1254:LYS:HG3	1:A:1285:GLU:OE2	1.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1425:VAL:HG23	1:A:1426:LEU:H	1.38	0.86
1:B:1411:TYR:O	1:B:1415:LYS:CB	2.22	0.86
1:C:1082:VAL:HG13	1:C:1083:GLN:H	1.41	0.86
1:C:1412:LEU:HD13	1:C:1419:LEU:CD2	2.03	0.86
2:D:114:GLN:HG3	2:D:115:GLU:H	0.72	0.86
1:A:1408:ILE:CG2	1:A:1412:LEU:HD23	2.06	0.86
1:C:1333:ARG:HB2	1:C:1360:GLU:CG	2.05	0.86
1:C:1411:TYR:O	1:C:1415:LYS:CB	2.23	0.86
1:C:1472:ILE:HG21	1:C:1498:ARG:HE	1.40	0.86
1:A:1253:TRP:HZ3	1:A:1276:ILE:HG22	1.33	0.86
1:A:1475:GLU:OE1	2:F:145:GLN:CB	2.17	0.86
1:B:1588:ARG:HG3	1:B:1588:ARG:HH11	1.38	0.86
1:C:1588:ARG:HH22	2:D:193:UNK:CA	1.82	0.86
1:B:1508:ARG:NH2	1:B:1530:LYS:HD3	1.91	0.86
1:C:1317:PHE:H	1:C:1317:PHE:HD2	1.24	0.86
1:A:1137:TYR:HB2	1:A:1138:MET:HB2	0.87	0.86
1:A:1551:GLU:HG2	1:A:1582:VAL:HG22	1.55	0.86
1:C:1188:GLU:HA	1:C:1191:ASN:ND2	1.90	0.86
1:C:1190:ILE:HD13	1:C:1216:LEU:O	1.75	0.86
1:C:1508:ARG:NH2	1:C:1530:LYS:HD3	1.91	0.86
1:A:1401:VAL:HG22	1:A:1429:ARG:HE	1.41	0.86
1:B:1362:VAL:HG22	1:B:1377:THR:HB	1.57	0.86
1:B:1596:MET:N	1:B:1597:PRO:HD2	1.91	0.86
1:B:1082:VAL:HG13	1:B:1083:GLN:H	1.40	0.85
1:B:1601:GLN:HG2	1:C:1587:TRP:CH2	2.09	0.85
1:A:1254:LYS:O	1:A:1289:TYR:CE2	2.28	0.85
1:A:1521:TRP:HZ3	1:A:1522:LYS:HZ2	0.90	0.85
1:B:1279:HIS:C	1:B:1279:HIS:CB	2.48	0.85
1:B:1588:ARG:HH22	2:F:192:UNK:CB	1.89	0.85
2:F:126:GLU:HG3	2:F:130:LYS:NZ	1.90	0.85
1:B:1408:ILE:CG2	1:B:1412:LEU:HD23	2.06	0.85
1:C:1401:VAL:HG22	1:C:1429:ARG:HE	1.41	0.85
1:A:1252:THR:O	1:A:1256:VAL:HG23	1.76	0.85
1:A:1345:ILE:H	1:A:1346:PRO:HD2	1.40	0.85
1:C:1198:ILE:HB	1:C:1221:VAL:HG21	1.56	0.85
1:C:1408:ILE:CG2	1:C:1412:LEU:HD23	2.06	0.85
1:B:1427:SER:CB	1:B:1428:PRO:CD	2.44	0.85
1:C:1260:CYS:O	1:C:1263:GLY:O	1.95	0.85
2:D:148:LYS:O	2:D:151:ILE:HG12	1.77	0.85
2:F:142:GLN:O	2:F:146:VAL:HG13	1.76	0.85
2:F:194:UNK:O	2:F:197:UNK:CB	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1260:CYS:O	1:A:1263:GLY:O	1.94	0.85
1:A:1274:LEU:H	1:A:1274:LEU:HD12	1.41	0.85
1:A:1596:MET:N	1:A:1597:PRO:HD2	1.90	0.85
1:A:1082:VAL:HG13	1:A:1083:GLN:H	1.41	0.85
1:A:1572:THR:HG21	1:A:1599:PHE:CD2	2.11	0.85
1:B:1345:ILE:H	1:B:1346:PRO:HD2	1.40	0.85
1:B:1472:ILE:HG21	1:B:1498:ARG:HE	1.40	0.85
1:C:1252:THR:O	1:C:1256:VAL:HG23	1.76	0.85
2:D:126:GLU:HG3	2:D:130:LYS:NZ	1.90	0.85
1:A:1254:LYS:C	1:A:1289:TYR:CD2	2.54	0.85
1:B:1375:ILE:HD11	1:B:1394:ILE:HB	1.59	0.85
1:A:1408:ILE:HG21	1:A:1412:LEU:CD2	2.07	0.85
1:A:1580:ASP:CG	1:C:1605:GLU:HG3	2.02	0.85
1:B:1085:LEU:HB3	1:B:1095:ALA:HB1	1.58	0.85
1:B:1283:LEU:HD22	1:B:1313:HIS:NE2	1.91	0.85
1:C:1362:VAL:HG22	1:C:1377:THR:HB	1.57	0.85
2:D:142:GLN:O	2:D:146:VAL:HG13	1.76	0.85
2:D:180:UNK:O	2:D:183:UNK:CB	2.25	0.85
1:A:1206:TYR:O	1:A:1230:THR:HG21	1.76	0.85
1:A:1264:LYS:HE2	1:A:1268:LEU:CB	2.07	0.84
1:A:1439:PHE:O	1:A:1442:VAL:HB	1.77	0.84
1:C:1274:LEU:H	1:C:1274:LEU:HD12	1.41	0.84
1:A:1361:LEU:HD23	1:A:1365:TYR:CE2	2.13	0.84
1:B:1290:TYR:HD2	1:B:1299:LEU:HD13	1.09	0.84
1:B:1521:TRP:HZ3	1:B:1522:LYS:NZ	1.75	0.84
2:E:148:LYS:O	2:E:151:ILE:HG12	1.77	0.84
2:F:148:LYS:O	2:F:151:ILE:HG12	1.76	0.84
1:A:1412:LEU:HD13	1:A:1419:LEU:CD2	2.03	0.84
1:A:1427:SER:CB	1:A:1428:PRO:CD	2.44	0.84
1:A:1475:GLU:OE2	2:F:149:ASN:OD1	1.94	0.84
1:C:1345:ILE:H	1:C:1346:PRO:HD2	1.41	0.84
1:A:1317:PHE:H	1:A:1317:PHE:HD2	1.24	0.84
1:A:1387:LYS:HB2	1:A:1390:GLN:HB2	1.59	0.84
1:A:1411:TYR:O	1:A:1415:LYS:CB	2.25	0.84
1:A:1598:TYR:CE1	1:B:1584:GLU:OE2	2.31	0.84
1:C:1504:LEU:CG	2:E:149:ASN:CG	2.49	0.84
1:A:1080:SER:O	1:A:1084:VAL:HG23	1.78	0.84
1:A:1508:ARG:NH2	1:A:1530:LYS:HD3	1.91	0.84
1:B:1264:LYS:HE2	1:B:1268:LEU:CB	2.07	0.84
1:B:1401:VAL:HG22	1:B:1429:ARG:HE	1.41	0.84
1:B:1387:LYS:HB2	1:B:1390:GLN:HB2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1494:SER:HA	1:B:1497:GLN:CD	2.03	0.84
1:B:1601:GLN:NE2	1:C:1587:TRP:HZ3	1.49	0.84
1:A:1282:GLU:HG3	1:A:1283:LEU:N	1.93	0.84
1:B:1332:MET:SD	1:B:1360:GLU:HG2	2.18	0.84
1:A:1472:ILE:HB	1:A:1498:ARG:HH21	1.43	0.84
1:B:1136:SER:HB3	1:B:1141:VAL:HG11	1.57	0.84
1:B:1282:GLU:HG3	1:B:1283:LEU:N	1.93	0.84
1:B:1317:PHE:H	1:B:1317:PHE:HD2	1.24	0.84
1:C:1264:LYS:HE2	1:C:1268:LEU:CB	2.07	0.84
2:D:174:UNK:CA	2:D:176:UNK:N	2.39	0.84
1:A:1108:TRP:CD1	1:A:1131:ALA:HB3	2.13	0.84
1:B:1430:LEU:HG	1:B:1432:HIS:H	1.43	0.84
1:C:1107:VAL:O	1:C:1108:TRP:CE3	2.31	0.84
1:A:1430:LEU:HG	1:A:1432:HIS:H	1.42	0.83
1:A:1492:ASN:O	1:A:1493:ILE:CG1	2.26	0.83
1:B:1408:ILE:HG21	1:B:1412:LEU:CD2	2.07	0.83
1:B:1439:PHE:O	1:B:1442:VAL:HB	1.78	0.83
1:A:1416:PRO:HD3	2:F:130:LYS:HD3	1.60	0.83
1:B:1551:GLU:CG	1:B:1582:VAL:CG2	2.56	0.83
1:A:1375:ILE:HD11	1:A:1394:ILE:HB	1.59	0.83
1:B:1260:CYS:O	1:B:1263:GLY:O	1.95	0.83
1:B:1409:GLN:CB	1:B:1413:GLU:CG	2.56	0.83
1:B:1521:TRP:HZ3	1:B:1522:LYS:HZ2	0.90	0.83
1:C:1439:PHE:O	1:C:1442:VAL:HB	1.77	0.83
1:B:1167:SER:HB3	1:B:1168:TYR:CD1	2.14	0.83
1:C:1409:GLN:CB	1:C:1413:GLU:CG	2.56	0.83
1:C:1494:SER:HA	1:C:1497:GLN:CD	2.03	0.83
2:E:142:GLN:O	2:E:146:VAL:HG13	1.77	0.83
2:F:195:UNK:O	2:F:197:UNK:CB	2.27	0.83
1:A:1295:TYR:CE2	1:A:1299:LEU:HB2	2.12	0.83
1:B:1085:LEU:HD13	1:B:1125:ILE:HD11	1.61	0.83
1:B:1253:TRP:C	1:B:1255:GLU:H	1.87	0.83
1:C:1191:ASN:HD22	1:C:1191:ASN:N	1.75	0.83
1:C:1361:LEU:HD23	1:C:1365:TYR:CE2	2.12	0.83
1:A:1448:VAL:HB	1:A:1451:TYR:CD2	2.14	0.83
2:E:104:LYS:O	2:E:108:GLU:CB	2.25	0.83
1:A:1494:SER:HA	1:A:1497:GLN:CD	2.03	0.83
1:A:1587:TRP:HH2	1:C:1601:GLN:HG2	1.43	0.83
1:B:1290:TYR:CE2	1:B:1299:LEU:HD13	2.13	0.83
1:A:1253:TRP:C	1:A:1255:GLU:H	1.87	0.83
1:A:1332:MET:SD	1:A:1360:GLU:HG2	2.18	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1362:VAL:HG22	1:A:1377:THR:HB	1.57	0.83
1:A:1521:TRP:HZ3	1:A:1522:LYS:NZ	1.75	0.83
1:B:1252:THR:O	1:B:1256:VAL:HG23	1.76	0.83
1:C:1122:LYS:HZ3	1:C:1147:SER:CB	1.92	0.83
1:C:1387:LYS:HB2	1:C:1390:GLN:HB2	1.59	0.83
1:A:1605:GLU:OE2	1:B:1579:PRO:HA	1.79	0.82
1:A:1611:ASP:OD2	1:B:1607:LEU:HD22	1.79	0.82
1:B:1136:SER:CA	1:B:1141:VAL:HG21	2.09	0.82
1:B:1420:ASN:OD1	1:B:1447:LEU:HD22	1.78	0.82
1:C:1332:MET:SD	1:C:1360:GLU:HG2	2.17	0.82
1:C:1375:ILE:HD11	1:C:1394:ILE:HB	1.59	0.82
1:C:1420:ASN:OD1	1:C:1447:LEU:HD22	1.78	0.82
1:A:1167:SER:O	1:A:1168:TYR:CD1	2.31	0.82
1:C:1136:SER:CA	1:C:1137:TYR:N	2.41	0.82
1:C:1408:ILE:HG21	1:C:1412:LEU:CD2	2.07	0.82
2:E:105:TRP:O	2:E:108:GLU:HG3	1.79	0.82
1:B:1448:VAL:HB	1:B:1451:TYR:CD2	2.13	0.82
1:C:1259:ALA:HA	1:C:1293:ARG:HH12	1.44	0.82
2:E:90:ALA:H	2:E:91:GLN:CB	1.92	0.82
1:A:1420:ASN:OD1	1:A:1447:LEU:HD22	1.78	0.82
1:B:1408:ILE:HG21	1:B:1412:LEU:HD23	1.61	0.82
2:D:181:UNK:O	2:D:183:UNK:CB	2.26	0.82
1:C:1361:LEU:HD23	1:C:1361:LEU:C	2.04	0.82
1:C:1419:LEU:O	1:C:1422:LEU:CB	2.25	0.82
1:C:1448:VAL:HB	1:C:1451:TYR:CD2	2.13	0.82
1:C:1596:MET:N	1:C:1597:PRO:HD2	1.90	0.82
2:D:180:UNK:C	2:D:183:UNK:CA	2.57	0.82
1:B:1274:LEU:H	1:B:1274:LEU:HD12	1.41	0.82
1:B:1325:SER:O	1:B:1355:ALA:HB1	1.79	0.82
2:D:180:UNK:O	2:D:183:UNK:CA	2.27	0.82
1:C:1290:TYR:CE2	1:C:1299:LEU:CD1	2.59	0.82
1:C:1577:LEU:O	1:C:1579:PRO:HD3	1.80	0.82
2:D:66:UNK:O	2:D:70:UNK:CB	2.28	0.82
1:B:1245:ARG:O	1:B:1246:LYS:CG	2.24	0.82
1:B:1472:ILE:HB	1:B:1498:ARG:HH21	1.43	0.82
2:F:21:UNK:C	2:F:21:UNK:O	0.52	0.82
1:A:1596:MET:SD	1:A:1597:PRO:HD3	2.20	0.82
1:C:1395:ILE:HG12	1:C:1404:TYR:CD2	2.14	0.82
1:C:1472:ILE:HB	1:C:1498:ARG:HH21	1.42	0.82
2:F:190:UNK:O	2:F:192:UNK:N	2.13	0.82
1:B:1361:LEU:HD23	1:B:1365:TYR:CE2	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1419:LEU:O	1:B:1422:LEU:CB	2.26	0.82
1:B:1588:ARG:HH12	2:F:192:UNK:HA	1.40	0.82
1:C:1115:GLN:HG3	1:C:1125:ILE:HD11	1.61	0.82
1:C:1521:TRP:HZ3	1:C:1522:LYS:NZ	1.75	0.82
2:D:180:UNK:C	2:D:183:UNK:HA	2.09	0.82
1:A:1401:VAL:HG22	1:A:1429:ARG:NE	1.94	0.81
1:C:1108:TRP:CZ3	1:C:1129:ILE:HG22	2.15	0.81
1:B:1438:TYR:O	1:B:1442:VAL:HG23	1.80	0.81
1:B:1598:TYR:HA	1:C:1584:GLU:OE2	1.80	0.81
1:C:1198:ILE:CA	1:C:1201:VAL:CG2	2.58	0.81
1:C:1244:ALA:C	1:C:1275:HIS:HE1	1.86	0.81
1:A:1122:LYS:O	1:A:1126:ASP:HB2	1.80	0.81
1:A:1325:SER:O	1:A:1355:ALA:HB1	1.79	0.81
1:A:1404:TYR:O	1:A:1407:ALA:HB3	1.79	0.81
1:A:1492:ASN:C	1:A:1493:ILE:HG13	2.05	0.81
1:B:1475:GLU:CD	2:D:145:GLN:HB3	2.06	0.81
1:B:1535:LYS:HE2	1:B:1535:LYS:HA	1.63	0.81
1:B:1598:TYR:CD1	1:C:1584:GLU:OE2	2.33	0.81
1:C:1198:ILE:CB	1:C:1221:VAL:CG2	2.58	0.81
1:C:1244:ALA:N	1:C:1275:HIS:HE1	1.77	0.81
1:C:1414:PHE:CE1	2:E:127:TRP:CZ3	2.65	0.81
2:F:194:UNK:O	2:F:197:UNK:CA	2.29	0.81
1:A:1177:LEU:HA	1:A:1180:THR:OG1	1.81	0.81
1:A:1438:TYR:O	1:A:1442:VAL:HG23	1.80	0.81
1:B:1206:TYR:O	1:B:1230:THR:HG21	1.80	0.81
1:B:1404:TYR:O	1:B:1407:ALA:HB3	1.79	0.81
1:B:1492:ASN:O	1:B:1493:ILE:CG1	2.26	0.81
1:B:1592:MET:HE2	1:B:1593:ASP:HA	1.60	0.81
1:C:1230:THR:O	1:C:1231:LEU:CD2	2.28	0.81
1:C:1404:TYR:O	1:C:1407:ALA:HB3	1.80	0.81
1:A:1395:ILE:HG12	1:A:1404:TYR:CD2	2.14	0.81
1:A:1408:ILE:HG21	1:A:1412:LEU:HD23	1.61	0.81
1:B:1361:LEU:HD23	1:B:1361:LEU:C	2.05	0.81
1:A:1412:LEU:HD12	1:A:1419:LEU:CD2	2.11	0.81
1:B:1245:ARG:O	1:B:1245:ARG:HG2	1.81	0.81
1:B:1395:ILE:HG12	1:B:1404:TYR:CD2	2.14	0.81
1:B:1401:VAL:HG22	1:B:1429:ARG:NE	1.94	0.81
1:A:1326:LYS:O	1:A:1327:PHE:CG	2.34	0.81
1:A:1403:LEU:C	1:A:1403:LEU:HD13	2.06	0.81
1:B:1149:ASN:O	1:B:1153:LEU:CB	2.29	0.81
1:C:1180:THR:HB	1:C:1185:GLU:OE2	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1325:SER:O	1:C:1355:ALA:HB1	1.79	0.81
1:C:1401:VAL:HG22	1:C:1429:ARG:NE	1.94	0.81
1:C:1411:TYR:O	1:C:1415:LYS:N	2.14	0.81
1:C:1430:LEU:HG	1:C:1432:HIS:H	1.43	0.81
1:C:1492:ASN:O	1:C:1493:ILE:CG1	2.25	0.81
1:C:1492:ASN:C	1:C:1493:ILE:HG12	2.04	0.81
2:D:155:ILE:H	2:D:155:ILE:HD13	1.45	0.81
2:E:203:UNK:C	2:E:203:UNK:N	2.42	0.81
1:A:1387:LYS:CB	1:A:1390:GLN:HB2	2.11	0.81
1:C:1405:TYR:CG	1:C:1434:ARG:NH1	2.49	0.81
1:C:1412:LEU:HD12	1:C:1419:LEU:CD2	2.10	0.81
1:C:1438:TYR:O	1:C:1442:VAL:HG23	1.80	0.81
1:C:1605:GLU:HA	1:C:1608:THR:CB	2.10	0.81
1:A:1296:PHE:HE2	2:F:101:SER:HG	1.25	0.81
1:A:1577:LEU:O	1:A:1579:PRO:HD3	1.80	0.81
1:C:1122:LYS:O	1:C:1126:ASP:HB2	1.80	0.81
1:C:1253:TRP:C	1:C:1255:GLU:H	1.86	0.81
1:A:1409:GLN:CB	1:A:1413:GLU:CG	2.56	0.80
1:A:1566:PHE:HE2	2:F:180:UNK:CB	1.94	0.80
1:B:1412:LEU:HD12	1:B:1419:LEU:CD2	2.10	0.80
1:B:1492:ASN:C	1:B:1493:ILE:HG13	2.04	0.80
1:C:1387:LYS:CB	1:C:1390:GLN:HB2	2.11	0.80
2:E:90:ALA:H	2:E:91:GLN:CA	1.94	0.80
1:A:1361:LEU:HD23	1:A:1361:LEU:C	2.05	0.80
1:C:1191:ASN:HD22	1:C:1191:ASN:H	1.27	0.80
2:E:126:GLU:O	2:E:129:GLU:HG2	1.81	0.80
1:A:1264:LYS:HE2	1:A:1268:LEU:CG	2.12	0.80
1:B:1405:TYR:CG	1:B:1434:ARG:NH1	2.49	0.80
1:B:1412:LEU:HD13	1:B:1419:LEU:CD2	2.03	0.80
1:C:1161:ARG:NH2	1:C:1174:ILE:HD11	1.97	0.80
1:C:1408:ILE:HG21	1:C:1412:LEU:HD23	1.61	0.80
1:A:1122:LYS:HG3	1:A:1123:GLU:H	1.46	0.80
1:A:1592:MET:HE2	1:A:1593:ASP:HA	1.61	0.80
1:C:1282:GLU:OE2	1:C:1285:GLU:HB3	1.80	0.80
1:C:1326:LYS:O	1:C:1327:PHE:CG	2.34	0.80
2:D:126:GLU:O	2:D:129:GLU:HG2	1.81	0.80
1:B:1336:LEU:HD13	1:B:1364:LEU:HD21	1.63	0.80
1:C:1122:LYS:HG3	1:C:1123:GLU:H	1.46	0.80
1:C:1186:LEU:HD22	1:C:1213:ALA:HB3	1.63	0.80
1:C:1382:PRO:CD	2:E:115:GLU:OE2	2.30	0.80
2:E:155:ILE:H	2:E:155:ILE:CD1	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1264:LYS:HE2	1:C:1268:LEU:CG	2.12	0.80
1:C:1278:VAL:O	1:C:1278:VAL:HG12	1.81	0.80
1:C:1438:TYR:O	1:C:1442:VAL:CG2	2.29	0.80
1:B:1086:ILE:HB	1:B:1089:ILE:HD13	1.64	0.80
1:B:1577:LEU:O	1:B:1579:PRO:HD3	1.80	0.80
1:B:1605:GLU:HG3	1:C:1580:ASP:OD2	1.80	0.80
1:C:1504:LEU:CG	2:E:149:ASN:OD1	2.30	0.80
2:F:180:UNK:O	2:F:182:UNK:N	2.15	0.80
1:A:1292:ASP:O	2:F:97:GLN:HG2	1.82	0.80
1:B:1326:LYS:O	1:B:1327:PHE:CG	2.34	0.80
1:B:1598:TYR:HE2	2:D:200:UNK:C	1.94	0.80
1:B:1601:GLN:HE21	1:C:1587:TRP:HZ3	0.80	0.80
1:C:1198:ILE:O	1:C:1199:GLN:C	2.23	0.80
1:C:1596:MET:SD	1:C:1597:PRO:HD3	2.21	0.80
1:A:1431:ASP:O	1:A:1433:THR:N	2.15	0.80
1:A:1583:LEU:O	1:A:1587:TRP:NE1	2.15	0.80
1:B:1122:LYS:O	1:B:1126:ASP:HB2	1.80	0.80
1:B:1136:SER:N	1:B:1141:VAL:HG21	1.97	0.80
1:C:1336:LEU:HD13	1:C:1364:LEU:HD21	1.63	0.80
2:F:133:LYS:HA	2:F:133:LYS:HZ1	1.43	0.80
1:A:1358:TRP:O	1:A:1362:VAL:CG2	2.30	0.79
1:A:1535:LYS:HA	1:A:1535:LYS:HE2	1.63	0.79
1:A:1538:MET:HE3	1:A:1566:PHE:HB3	1.63	0.79
1:A:1336:LEU:HD13	1:A:1364:LEU:HD21	1.63	0.79
1:A:1509:ARG:HH22	2:F:162:GLN:CB	1.96	0.79
1:B:1362:VAL:HG22	1:B:1377:THR:CG2	2.12	0.79
1:B:1438:TYR:O	1:B:1442:VAL:CG2	2.29	0.79
1:B:1583:LEU:O	1:B:1587:TRP:NE1	2.15	0.79
1:C:1403:LEU:C	1:C:1403:LEU:HD13	2.06	0.79
1:C:1588:ARG:NH2	2:D:192:UNK:C	2.45	0.79
1:A:1274:LEU:C	1:A:1277:VAL:HG22	2.08	0.79
1:A:1405:TYR:CG	1:A:1434:ARG:NH1	2.49	0.79
1:C:1362:VAL:HG22	1:C:1377:THR:CG2	2.12	0.79
1:C:1444:GLN:C	1:C:1446:PRO:HD2	2.07	0.79
1:A:1438:TYR:O	1:A:1442:VAL:CG2	2.29	0.79
1:A:1551:GLU:CG	1:A:1582:VAL:HG22	2.13	0.79
1:A:1605:GLU:HA	1:A:1608:THR:CB	2.10	0.79
1:A:1605:GLU:CA	1:A:1608:THR:HB	2.12	0.79
1:B:1274:LEU:C	1:B:1277:VAL:HG22	2.07	0.79
1:B:1403:LEU:HD13	1:B:1403:LEU:C	2.06	0.79
1:C:1445:LEU:N	1:C:1446:PRO:HD2	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1361:LEU:HD21	1:A:1365:TYR:CZ	2.18	0.79
1:B:1411:TYR:O	1:B:1415:LYS:N	2.14	0.79
1:C:1154:VAL:HG11	1:C:1180:THR:OG1	1.80	0.79
1:C:1504:LEU:HD21	2:E:149:ASN:CG	2.07	0.79
1:B:1538:MET:HE3	1:B:1566:PHE:HB3	1.64	0.79
1:A:1444:GLN:C	1:A:1446:PRO:HD2	2.08	0.79
1:B:1122:LYS:HG3	1:B:1123:GLU:H	1.47	0.79
1:B:1264:LYS:HE2	1:B:1268:LEU:CG	2.11	0.79
1:B:1358:TRP:O	1:B:1362:VAL:CG2	2.31	0.79
1:B:1387:LYS:CB	1:B:1390:GLN:HB2	2.11	0.79
1:B:1444:GLN:C	1:B:1446:PRO:HD2	2.08	0.79
1:C:1167:SER:O	1:C:1171:THR:CA	2.31	0.79
1:A:1234:LEU:HG	1:A:1235:GLY:H	1.48	0.79
2:E:127:TRP:HA	2:E:130:LYS:HE3	1.65	0.79
2:F:126:GLU:O	2:F:129:GLU:HG2	1.81	0.79
2:F:162:GLN:C	2:F:166:ALA:CB	2.51	0.79
1:A:1082:VAL:HG11	1:A:1105:PRO:HB2	1.63	0.79
1:A:1445:LEU:N	1:A:1446:PRO:HD2	1.98	0.79
1:C:1583:LEU:O	1:C:1587:TRP:NE1	2.15	0.79
1:A:1514:LEU:HD23	1:A:1514:LEU:O	1.83	0.79
1:B:1232:VAL:C	1:B:1234:LEU:N	2.38	0.79
1:C:1514:LEU:HD23	1:C:1514:LEU:O	1.83	0.79
1:B:1108:TRP:NE1	1:B:1131:ALA:HB3	1.98	0.78
1:B:1514:LEU:O	1:B:1514:LEU:HD23	1.83	0.78
1:C:1414:PHE:CD1	2:E:123:MET:HB3	2.18	0.78
1:C:1455:VAL:HG12	1:C:1456:GLN:N	1.95	0.78
2:E:133:LYS:HA	2:E:133:LYS:HZ1	1.44	0.78
2:F:194:UNK:C	2:F:197:UNK:CA	2.61	0.78
1:A:1587:TRP:O	1:A:1588:ARG:C	2.26	0.78
1:B:1079:THR:HG22	1:B:1079:THR:O	1.83	0.78
1:C:1296:PHE:O	1:C:1297:GLU:C	2.26	0.78
1:C:1481:ARG:NH1	1:C:1510:ILE:HG12	1.97	0.78
1:B:1082:VAL:HG13	1:B:1083:GLN:N	1.98	0.78
1:B:1455:VAL:HG12	1:B:1456:GLN:N	1.95	0.78
2:D:181:UNK:O	2:D:182:UNK:C	2.28	0.78
1:A:1412:LEU:CA	1:A:1419:LEU:HD13	2.14	0.78
1:B:1234:LEU:HG	1:B:1235:GLY:H	1.48	0.78
1:B:1277:VAL:HG23	1:B:1278:VAL:H	1.48	0.78
1:B:1361:LEU:HD21	1:B:1365:TYR:CZ	2.18	0.78
1:C:1108:TRP:CE3	1:C:1108:TRP:HA	2.19	0.78
1:C:1535:LYS:HE2	1:C:1535:LYS:HA	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1538:MET:HE3	1:C:1566:PHE:HB3	1.63	0.78
2:F:150:LYS:O	2:F:152:ASN:O	2.02	0.78
1:A:1136:SER:CA	1:A:1141:VAL:HG21	2.13	0.78
1:A:1271:MET:O	1:A:1275:HIS:HB2	1.84	0.78
1:A:1358:TRP:CE3	1:A:1381:HIS:CD2	2.72	0.78
1:C:1082:VAL:HG13	1:C:1083:GLN:N	1.98	0.78
1:A:1079:THR:O	1:A:1079:THR:HG22	1.84	0.78
1:A:1232:VAL:C	1:A:1234:LEU:N	2.38	0.78
1:A:1279:HIS:CE1	1:A:1283:LEU:HD12	2.18	0.78
1:B:1445:LEU:N	1:B:1446:PRO:HD2	1.98	0.78
1:C:1079:THR:O	1:C:1079:THR:HG22	1.83	0.78
1:C:1592:MET:HE2	1:C:1593:ASP:HA	1.65	0.78
2:D:172:UNK:O	2:D:175:UNK:CB	2.31	0.78
1:A:1621:LYS:O	1:A:1625:GLN:HG3	1.83	0.78
1:B:1431:ASP:O	1:B:1433:THR:N	2.15	0.78
1:B:1469:ASN:HA	1:B:1472:ILE:HD12	1.66	0.78
1:C:1149:ASN:O	1:C:1153:LEU:HB2	1.84	0.78
1:C:1206:TYR:CD1	1:C:1226:ARG:HD2	2.19	0.78
1:C:1621:LYS:O	1:C:1625:GLN:HG3	1.83	0.78
2:D:150:LYS:O	2:D:152:ASN:O	2.02	0.78
2:E:202:UNK:O	2:E:203:UNK:O	2.01	0.78
1:A:1455:VAL:HG12	1:A:1456:GLN:N	1.96	0.78
1:B:1271:MET:O	1:B:1275:HIS:HB2	1.83	0.78
1:B:1409:GLN:HA	1:B:1413:GLU:HG2	0.81	0.78
1:B:1412:LEU:HD12	1:B:1419:LEU:HD21	1.66	0.78
1:A:1214:ALA:O	1:A:1218:TYR:HB2	1.84	0.78
1:B:1167:SER:HB3	1:B:1168:TYR:CE1	2.19	0.78
1:B:1246:LYS:O	1:B:1247:ALA:CB	2.32	0.78
1:C:1175:PHE:CE1	1:C:1200:GLN:HB3	2.18	0.78
1:C:1270:GLN:OE1	1:C:1298:GLU:HG3	1.84	0.78
1:C:1358:TRP:O	1:C:1362:VAL:CG2	2.31	0.78
1:C:1499:LEU:HB2	1:C:1511:ALA:HB2	1.66	0.78
1:C:1264:LYS:HZ1	1:C:1268:LEU:HD13	1.47	0.78
1:C:1605:GLU:CA	1:C:1608:THR:HB	2.12	0.78
2:D:180:UNK:O	2:D:183:UNK:HA	1.84	0.78
1:A:1082:VAL:HG13	1:A:1083:GLN:N	1.98	0.77
1:A:1149:ASN:O	1:A:1153:LEU:HB2	1.84	0.77
1:A:1279:HIS:HD2	1:A:1282:GLU:H	1.28	0.77
1:A:1362:VAL:HG22	1:A:1377:THR:CG2	2.12	0.77
1:B:1296:PHE:O	1:B:1297:GLU:C	2.26	0.77
1:B:1499:LEU:HB2	1:B:1511:ALA:HB2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1605:GLU:HA	1:B:1608:THR:CB	2.10	0.77
1:C:1168:TYR:H	1:C:1168:TYR:HD1	1.32	0.77
1:C:1361:LEU:HD21	1:C:1365:TYR:CZ	2.17	0.77
1:C:1586:ALA:CB	1:C:1594:PHE:CE1	2.67	0.77
2:E:108:GLU:OE2	2:E:109:GLN:CG	2.32	0.77
1:A:1107:VAL:HG12	1:A:1111:LEU:HB2	1.67	0.77
1:A:1116:LEU:HD11	1:A:1122:LYS:CD	2.13	0.77
1:B:1412:LEU:CA	1:B:1419:LEU:HD13	2.14	0.77
2:E:151:ILE:HA	2:E:154:ARG:HD3	1.66	0.77
1:B:1144:ALA:O	1:B:1153:LEU:HD13	1.83	0.77
2:E:150:LYS:O	2:E:152:ASN:O	2.02	0.77
1:A:1471:PHE:HB3	1:A:1480:LEU:HB2	1.66	0.77
1:B:1471:PHE:HA	1:B:1474:GLU:HG2	1.67	0.77
1:B:1525:VAL:HG13	1:B:1526:GLU:OE2	1.85	0.77
1:C:1161:ARG:HE	1:C:1170:GLU:HB2	1.48	0.77
2:E:146:VAL:HA	2:E:149:ASN:OD1	1.85	0.77
1:A:1277:VAL:HG23	1:A:1278:VAL:H	1.48	0.77
1:A:1469:ASN:HA	1:A:1472:ILE:HD12	1.66	0.77
1:B:1135:SER:OG	1:B:1160:ALA:HA	1.84	0.77
1:B:1419:LEU:C	1:B:1422:LEU:HB3	2.09	0.77
1:C:1274:LEU:C	1:C:1277:VAL:HG22	2.08	0.77
1:C:1465:GLU:CD	1:C:1465:GLU:C	2.52	0.77
1:A:1161:ARG:HG2	1:A:1173:LEU:CD2	2.14	0.77
1:B:1180:THR:O	1:B:1181:ASN:HB3	1.82	0.77
1:C:1245:ARG:N	1:C:1275:HIS:HE1	1.82	0.77
1:C:1271:MET:O	1:C:1275:HIS:HB2	1.83	0.77
1:C:1419:LEU:C	1:C:1422:LEU:HB3	2.09	0.77
1:A:1174:ILE:CG2	1:A:1201:VAL:HG22	2.15	0.77
1:A:1419:LEU:C	1:A:1422:LEU:HB3	2.09	0.77
1:B:1358:TRP:CE3	1:B:1381:HIS:CD2	2.72	0.77
1:B:1605:GLU:CA	1:B:1608:THR:HB	2.12	0.77
1:C:1472:ILE:HA	1:C:1507:PHE:CE1	2.19	0.77
2:F:151:ILE:HA	2:F:154:ARG:HD3	1.66	0.77
1:A:1279:HIS:CD2	1:A:1282:GLU:HB3	2.20	0.77
1:A:1296:PHE:O	1:A:1297:GLU:C	2.27	0.77
1:B:1214:ALA:O	1:B:1218:TYR:HB2	1.84	0.77
1:B:1167:SER:C	1:B:1169:VAL:H	1.93	0.77
1:C:1412:LEU:CA	1:C:1419:LEU:HD13	2.14	0.77
1:C:1471:PHE:HB3	1:C:1480:LEU:HB2	1.67	0.77
1:C:1513:TYR:O	1:C:1516:LYS:HG2	1.85	0.77
1:C:1609:LYS:HG2	1:C:1612:LYS:HD2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:127:TRP:HA	2:F:130:LYS:HE3	1.66	0.77
2:F:194:UNK:O	2:F:197:UNK:HA	1.85	0.77
1:B:1387:LYS:HB2	1:B:1390:GLN:HB3	1.65	0.77
1:B:1471:PHE:HB3	1:B:1480:LEU:HB2	1.67	0.77
1:C:1113:LYS:HG3	1:C:1139:GLU:OE1	1.84	0.77
1:C:1198:ILE:HG12	1:C:1199:GLN:N	1.99	0.77
1:C:1277:VAL:HG23	1:C:1278:VAL:H	1.49	0.77
2:D:127:TRP:HA	2:D:130:LYS:HE3	1.65	0.77
1:A:1535:LYS:NZ	2:F:181:UNK:CB	2.48	0.76
1:C:1358:TRP:CE3	1:C:1381:HIS:CD2	2.72	0.76
1:C:1525:VAL:HG13	1:C:1526:GLU:OE2	1.85	0.76
1:A:1411:TYR:O	1:A:1415:LYS:C	2.27	0.76
1:A:1499:LEU:HB2	1:A:1511:ALA:HB2	1.66	0.76
1:B:1408:ILE:HG23	1:B:1412:LEU:HB2	1.68	0.76
1:C:1617:GLU:HG2	1:C:1621:LYS:HZ3	1.49	0.76
2:F:118:ALA:HA	2:F:121:LYS:CE	2.15	0.76
1:A:1122:LYS:HG3	1:A:1123:GLU:N	2.01	0.76
1:A:1409:GLN:HA	1:A:1413:GLU:HG2	0.81	0.76
1:A:1465:GLU:CD	1:A:1465:GLU:C	2.52	0.76
1:A:1525:VAL:HG13	1:A:1526:GLU:OE2	1.85	0.76
1:A:1609:LYS:HG2	1:A:1612:LYS:HD2	1.66	0.76
1:C:1108:TRP:HA	1:C:1108:TRP:HE3	1.51	0.76
2:D:118:ALA:HA	2:D:121:LYS:CE	2.15	0.76
1:B:1513:TYR:O	1:B:1516:LYS:HG2	1.85	0.76
1:C:1211:TYR:CE1	1:C:1231:LEU:HD21	2.20	0.76
1:C:1427:SER:HB3	1:C:1428:PRO:HD3	1.67	0.76
2:F:146:VAL:HA	2:F:149:ASN:OD1	1.85	0.76
2:F:190:UNK:O	2:F:191:UNK:C	2.33	0.76
1:A:1116:LEU:CD1	1:A:1122:LYS:HB3	2.15	0.76
1:A:1403:LEU:HD13	1:A:1403:LEU:O	1.86	0.76
1:C:1572:THR:HG21	1:C:1599:PHE:CD2	2.20	0.76
1:C:1596:MET:O	1:C:1598:TYR:CE2	2.38	0.76
2:D:151:ILE:HA	2:D:154:ARG:HD3	1.66	0.76
1:A:1086:ILE:HD12	1:A:1089:ILE:HG12	1.67	0.76
1:B:1587:TRP:O	1:B:1588:ARG:C	2.29	0.76
2:D:146:VAL:HA	2:D:149:ASN:OD1	1.85	0.76
2:E:105:TRP:C	2:E:108:GLU:HG3	2.10	0.76
1:B:1107:VAL:HG12	1:B:1111:LEU:HB2	1.67	0.76
1:C:1387:LYS:HB2	1:C:1390:GLN:HB3	1.65	0.76
1:C:1504:LEU:HD21	2:E:149:ASN:CB	2.15	0.76
2:F:118:ALA:HA	2:F:121:LYS:HE3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1159:MET:HE1	1:A:1162:LYS:HD2	1.65	0.76
1:A:1257:CYS:HA	1:A:1260:CYS:SG	2.26	0.76
1:A:1419:LEU:O	1:A:1422:LEU:CB	2.25	0.76
1:B:1403:LEU:HD13	1:B:1403:LEU:O	1.86	0.76
1:B:1465:GLU:CD	1:B:1465:GLU:C	2.52	0.76
1:C:1214:ALA:O	1:C:1218:TYR:HB2	1.84	0.76
1:A:1222:SER:OG	1:A:1223:ASN:N	2.13	0.76
1:B:1358:TRP:HE3	1:B:1377:THR:HG22	1.50	0.76
1:C:1082:VAL:CG2	1:C:1107:VAL:HG21	2.14	0.76
1:C:1277:VAL:HG23	1:C:1278:VAL:N	2.01	0.76
1:C:1403:LEU:HD13	1:C:1403:LEU:O	1.86	0.76
1:C:1469:ASN:HA	1:C:1472:ILE:HD12	1.67	0.76
1:C:1617:GLU:HA	1:C:1620:ARG:NH1	2.01	0.76
1:A:1513:TYR:O	1:A:1516:LYS:HG2	1.85	0.76
1:B:1137:TYR:HB2	1:B:1138:MET:HB2	0.81	0.76
1:B:1333:ARG:HB2	1:B:1360:GLU:CD	2.11	0.76
1:C:1211:TYR:HD1	1:C:1231:LEU:HD22	0.95	0.76
1:C:1431:ASP:O	1:C:1433:THR:N	2.15	0.76
1:C:1601:GLN:HG3	1:C:1604:LYS:HD2	1.69	0.76
1:B:1161:ARG:HH11	1:B:1194:ASN:HB2	1.50	0.75
1:C:1414:PHE:HE1	2:E:127:TRP:CE3	2.04	0.75
1:C:1471:PHE:HA	1:C:1474:GLU:HG2	1.67	0.75
1:A:1277:VAL:HG23	1:A:1278:VAL:N	2.01	0.75
1:A:1601:GLN:HG3	1:A:1604:LYS:HD2	1.68	0.75
1:B:1136:SER:CB	1:B:1141:VAL:HG11	2.15	0.75
1:B:1472:ILE:HA	1:B:1507:PHE:CE1	2.19	0.75
1:C:1290:TYR:HD2	1:C:1299:LEU:HD22	1.50	0.75
1:C:1475:GLU:HB2	2:E:145:GLN:HG3	1.69	0.75
2:F:91:GLN:NE2	2:F:94:ARG:HG2	2.01	0.75
1:A:1471:PHE:HA	1:A:1474:GLU:HG2	1.67	0.75
1:B:1144:ALA:HB1	1:B:1149:ASN:CB	2.14	0.75
1:B:1609:LYS:HG2	1:B:1612:LYS:HD2	1.66	0.75
1:C:1257:CYS:HA	1:C:1260:CYS:SG	2.26	0.75
2:E:118:ALA:O	2:E:122:VAL:HG22	1.87	0.75
1:B:1082:VAL:HG11	1:B:1105:PRO:CB	2.16	0.75
1:C:1198:ILE:CA	1:C:1201:VAL:HG21	2.14	0.75
1:C:1475:GLU:OE1	2:E:145:GLN:HG3	1.85	0.75
1:A:1358:TRP:HE3	1:A:1377:THR:HG22	1.50	0.75
1:B:1584:GLU:HA	1:B:1587:TRP:CD2	2.21	0.75
1:B:1617:GLU:HA	1:B:1620:ARG:NH1	2.01	0.75
2:E:118:ALA:HA	2:E:121:LYS:CE	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1387:LYS:HB2	1:A:1390:GLN:HB3	1.65	0.75
1:A:1584:GLU:HA	1:A:1587:TRP:CD2	2.21	0.75
1:B:1535:LYS:NZ	1:B:1563:ARG:HH12	1.85	0.75
1:A:1144:ALA:O	1:A:1153:LEU:HD13	1.87	0.75
1:A:1535:LYS:NZ	1:A:1563:ARG:HH12	1.85	0.75
1:B:1218:TYR:HE2	1:B:1227:LEU:HB2	1.52	0.75
1:C:1261:VAL:HG13	1:C:1295:TYR:CE1	2.22	0.75
1:C:1584:GLU:HA	1:C:1587:TRP:CD2	2.21	0.75
1:C:1591:ILE:HG23	1:C:1592:MET:H	1.52	0.75
1:A:1445:LEU:O	1:A:1448:VAL:HG22	1.87	0.75
1:B:1122:LYS:HG3	1:B:1123:GLU:N	2.01	0.75
2:F:118:ALA:O	2:F:122:VAL:HG22	1.87	0.75
1:C:1190:ILE:CD1	1:C:1216:LEU:O	2.35	0.74
1:C:1408:ILE:HG23	1:C:1412:LEU:HB2	1.69	0.74
1:A:1427:SER:HB3	1:A:1428:PRO:HD3	1.67	0.74
1:B:1192:GLY:N	1:B:1193:PRO:HD3	2.01	0.74
1:B:1598:TYR:CE2	2:D:201:UNK:CA	2.69	0.74
1:C:1521:TRP:O	1:C:1525:VAL:HG12	1.87	0.74
2:F:21:UNK:C	2:F:21:UNK:N	2.49	0.74
1:A:1161:ARG:CZ	1:A:1170:GLU:HB2	2.17	0.74
1:A:1333:ARG:HB2	1:A:1360:GLU:CD	2.12	0.74
1:A:1602:VAL:O	1:A:1606:TYR:HB2	1.87	0.74
1:A:1617:GLU:HA	1:A:1620:ARG:NH1	2.01	0.74
1:B:1274:LEU:HA	1:B:1277:VAL:CG2	2.17	0.74
1:B:1521:TRP:O	1:B:1525:VAL:HG12	1.87	0.74
1:B:1566:PHE:HE2	2:D:182:UNK:CB	1.99	0.74
1:C:1412:LEU:HD21	1:C:1439:PHE:CE1	2.22	0.74
1:A:1416:PRO:HD2	2:F:130:LYS:HD3	1.69	0.74
1:B:1412:LEU:HD21	1:B:1439:PHE:CE1	2.23	0.74
1:B:1605:GLU:HB2	1:C:1580:ASP:OD1	1.86	0.74
1:C:1274:LEU:HA	1:C:1277:VAL:CG2	2.18	0.74
1:A:1116:LEU:CD2	1:A:1122:LYS:HB3	2.17	0.74
1:A:1412:LEU:HD21	1:A:1439:PHE:CE1	2.23	0.74
1:C:1412:LEU:HB2	1:C:1419:LEU:HD13	1.70	0.74
1:C:1412:LEU:HD12	1:C:1419:LEU:HD21	1.66	0.74
1:C:1602:VAL:O	1:C:1606:TYR:HB2	1.88	0.74
2:E:118:ALA:HA	2:E:121:LYS:HE3	1.68	0.74
1:A:1274:LEU:HA	1:A:1277:VAL:CG2	2.18	0.74
1:A:1611:ASP:OD2	1:B:1607:LEU:CD2	2.36	0.74
1:B:1588:ARG:NH1	1:B:1588:ARG:HG3	2.00	0.74
1:C:1362:VAL:HG22	1:C:1377:THR:HG21	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1409:GLN:HA	1:C:1413:GLU:HG2	0.81	0.74
1:C:1445:LEU:O	1:C:1448:VAL:HG22	1.88	0.74
1:A:1521:TRP:O	1:A:1525:VAL:HG12	1.87	0.74
1:A:1579:PRO:CB	1:C:1605:GLU:OE2	2.36	0.74
1:B:1257:CYS:HA	1:B:1260:CYS:SG	2.27	0.74
1:C:1177:LEU:HA	1:C:1180:THR:OG1	1.87	0.74
1:C:1597:PRO:HB3	1:C:1601:GLN:HE22	1.53	0.74
2:E:146:VAL:O	2:E:149:ASN:HB2	1.87	0.74
1:A:1554:LEU:HA	1:A:1557:PHE:HD2	1.53	0.74
1:B:1445:LEU:O	1:B:1448:VAL:HG22	1.88	0.74
1:C:1333:ARG:HB2	1:C:1360:GLU:CD	2.12	0.74
2:F:146:VAL:O	2:F:149:ASN:HB2	1.87	0.74
1:A:1332:MET:CE	1:A:1357:LEU:HD13	2.18	0.74
1:B:1554:LEU:HA	1:B:1557:PHE:HD2	1.53	0.74
1:A:1513:TYR:HD1	1:A:1516:LYS:HE2	1.53	0.74
1:B:1209:LYS:HB3	1:B:1230:THR:HG22	1.69	0.74
1:B:1601:GLN:HG3	1:B:1604:LYS:HD2	1.68	0.74
1:C:1115:GLN:HG3	1:C:1125:ILE:CD1	2.17	0.74
1:C:1122:LYS:HG3	1:C:1123:GLU:N	2.01	0.74
1:A:1282:GLU:CG	1:A:1283:LEU:H	2.00	0.73
1:A:1408:ILE:HG23	1:A:1412:LEU:HB2	1.68	0.73
1:B:1455:VAL:CG1	1:B:1456:GLN:H	1.95	0.73
1:C:1113:LYS:HG3	1:C:1139:GLU:CD	2.13	0.73
1:C:1198:ILE:HG12	1:C:1199:GLN:H	1.52	0.73
2:E:192:UNK:O	2:E:193:UNK:C	2.35	0.73
2:F:152:ASN:O	2:F:153:ASN:HB2	1.88	0.73
1:A:1255:GLU:CA	1:A:1289:TYR:HE2	2.01	0.73
1:A:1412:LEU:HB2	1:A:1419:LEU:HD13	1.69	0.73
1:B:1427:SER:HB3	1:B:1428:PRO:HD3	1.67	0.73
1:B:1597:PRO:HB3	1:B:1601:GLN:HE22	1.53	0.73
1:C:1177:LEU:CD1	1:C:1189:PHE:HZ	1.96	0.73
1:C:1332:MET:CE	1:C:1357:LEU:HD13	2.17	0.73
1:C:1535:LYS:NZ	1:C:1563:ARG:HH12	1.85	0.73
2:E:108:GLU:OE1	2:E:108:GLU:C	2.31	0.73
1:A:1586:ALA:O	1:A:1590:ASN:CG	2.31	0.73
1:B:1162:LYS:O	1:B:1163:LYS:HB2	1.88	0.73
1:B:1282:GLU:CG	1:B:1283:LEU:H	2.00	0.73
1:B:1509:ARG:CZ	2:D:163:GLN:HA	2.17	0.73
1:B:1513:TYR:HD1	1:B:1516:LYS:HE2	1.54	0.73
1:B:1602:VAL:O	1:B:1606:TYR:HB2	1.88	0.73
1:C:1261:VAL:HG13	1:C:1295:TYR:CZ	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:118:ALA:O	2:D:122:VAL:HG22	1.87	0.73
1:A:1371:TYR:HB3	1:A:1394:ILE:HG22	1.69	0.73
1:B:1279:HIS:NE2	1:B:1283:LEU:HD11	2.02	0.73
2:D:146:VAL:O	2:D:149:ASN:HB2	1.87	0.73
1:B:1134:PRO:HD2	1:B:1156:TYR:HE1	1.54	0.73
1:B:1264:LYS:NZ	1:B:1268:LEU:CD1	2.51	0.73
1:B:1277:VAL:HG23	1:B:1278:VAL:N	2.01	0.73
1:C:1428:PRO:O	1:C:1429:ARG:CB	2.33	0.73
1:A:1472:ILE:HA	1:A:1507:PHE:CE1	2.19	0.73
1:B:1142:GLN:C	1:B:1142:GLN:OE1	2.31	0.73
1:B:1167:SER:O	1:B:1169:VAL:N	2.20	0.73
1:B:1362:VAL:HG22	1:B:1377:THR:HG21	1.70	0.73
1:C:1198:ILE:CG1	1:C:1199:GLN:N	2.51	0.73
1:C:1264:LYS:NZ	1:C:1268:LEU:CD1	2.51	0.73
1:C:1290:TYR:CD2	1:C:1299:LEU:CD2	2.71	0.73
1:B:1084:VAL:HG13	1:B:1089:ILE:HG22	1.70	0.73
1:B:1332:MET:CE	1:B:1357:LEU:HD13	2.18	0.73
1:C:1142:GLN:C	1:C:1142:GLN:OE1	2.31	0.73
1:C:1402:GLU:C	1:C:1402:GLU:OE1	2.31	0.73
2:F:183:UNK:O	2:F:187:UNK:N	2.21	0.73
1:A:1332:MET:HG3	1:A:1357:LEU:CD1	2.19	0.73
1:A:1586:ALA:O	1:A:1590:ASN:OD1	2.06	0.73
1:B:1371:TYR:HB3	1:B:1394:ILE:HG22	1.69	0.73
1:C:1554:LEU:HA	1:C:1557:PHE:HD2	1.53	0.73
2:D:118:ALA:HA	2:D:121:LYS:HE3	1.68	0.73
2:D:152:ASN:O	2:D:153:ASN:HB2	1.88	0.73
1:A:1142:GLN:OE1	1:A:1142:GLN:C	2.32	0.73
1:A:1597:PRO:HB3	1:A:1601:GLN:HE22	1.53	0.73
1:C:1414:PHE:HE1	2:E:127:TRP:HZ3	1.34	0.73
2:E:152:ASN:O	2:E:153:ASN:HB2	1.89	0.73
2:E:155:ILE:HD12	2:E:155:ILE:N	2.02	0.73
1:A:1264:LYS:NZ	1:A:1268:LEU:CD1	2.51	0.73
1:B:1292:ASP:O	2:D:97:GLN:HA	1.87	0.73
1:C:1414:PHE:O	1:C:1416:PRO:CD	2.23	0.73
1:C:1513:TYR:HD1	1:C:1516:LYS:HE2	1.54	0.73
1:A:1159:MET:SD	1:A:1162:LYS:HB3	2.29	0.72
1:A:1198:ILE:HG23	1:A:1201:VAL:HG21	1.71	0.72
1:A:1258:PHE:N	1:A:1289:TYR:HH	1.68	0.72
1:B:1170:GLU:CD	1:B:1196:ALA:HB2	2.14	0.72
1:B:1261:VAL:HG13	1:B:1295:TYR:CE2	2.24	0.72
1:B:1274:LEU:HA	1:B:1277:VAL:HG21	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1293:ARG:HG2	2:D:97:GLN:HE22	1.54	0.72
1:B:1428:PRO:O	1:B:1429:ARG:CB	2.34	0.72
1:C:1122:LYS:HZ3	1:C:1147:SER:HB3	1.52	0.72
1:C:1215:LYS:C	1:C:1217:LEU:H	1.96	0.72
1:C:1254:LYS:HA	1:C:1289:TYR:CD2	2.24	0.72
1:C:1257:CYS:HB3	1:C:1289:TYR:OH	1.89	0.72
1:C:1434:ARG:HG3	2:E:4:UNK:O	1.89	0.72
1:A:1402:GLU:C	1:A:1402:GLU:OE1	2.32	0.72
1:B:1206:TYR:CD1	1:B:1226:ARG:O	2.42	0.72
1:C:1387:LYS:CB	1:C:1390:GLN:CB	2.67	0.72
1:C:1496:ALA:HB2	1:C:1514:LEU:HD22	1.70	0.72
1:B:1412:LEU:HB2	1:B:1419:LEU:HD13	1.70	0.72
2:E:134:ASP:O	2:E:137:GLU:HB2	1.89	0.72
1:A:1588:ARG:HH11	1:A:1588:ARG:HG3	1.54	0.72
1:B:1330:GLN:HG3	1:B:1331:LYS:H	1.55	0.72
1:C:1332:MET:HG3	1:C:1357:LEU:CD1	2.19	0.72
1:C:1358:TRP:HE3	1:C:1377:THR:HG22	1.51	0.72
1:C:1444:GLN:NE2	2:E:130:LYS:HD2	2.03	0.72
1:A:1197:HIS:C	1:A:1199:GLN:H	1.96	0.72
1:C:1215:LYS:O	1:C:1217:LEU:N	2.22	0.72
1:C:1371:TYR:HB3	1:C:1394:ILE:HG22	1.69	0.72
1:A:1215:LYS:C	1:A:1217:LEU:H	1.96	0.72
1:B:1496:ALA:HB2	1:B:1514:LEU:HD22	1.70	0.72
1:B:1592:MET:HG2	1:B:1593:ASP:H	1.53	0.72
1:C:1274:LEU:HA	1:C:1277:VAL:HG21	1.71	0.72
1:C:1588:ARG:NH1	2:D:197:UNK:CB	2.53	0.72
1:A:1324:TYR:HD2	1:A:1332:MET:HA	1.55	0.72
1:B:1215:LYS:O	1:B:1217:LEU:N	2.23	0.72
1:B:1402:GLU:C	1:B:1402:GLU:OE1	2.32	0.72
1:C:1330:GLN:HG3	1:C:1331:LYS:H	1.55	0.72
1:C:1358:TRP:CE3	1:C:1377:THR:HG22	2.24	0.72
2:D:127:TRP:CD1	2:D:128:ARG:HG3	2.24	0.72
1:A:1282:GLU:O	1:A:1283:LEU:CB	2.38	0.72
1:C:1253:TRP:O	1:C:1289:TYR:CE2	2.41	0.72
2:D:106:ARG:HH21	2:D:106:ARG:HA	1.55	0.72
1:A:1167:SER:C	1:A:1169:VAL:H	1.97	0.72
1:A:1215:LYS:O	1:A:1217:LEU:N	2.22	0.72
1:C:1175:PHE:HE1	1:C:1200:GLN:HB3	1.52	0.72
2:E:127:TRP:CD1	2:E:128:ARG:HG3	2.25	0.72
2:F:200:UNK:C	2:F:202:UNK:H	2.00	0.72
1:A:1209:LYS:HB2	1:A:1231:LEU:HB3	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1258:PHE:HE1	1:A:1293:ARG:HG3	1.55	0.71
1:B:1332:MET:HG3	1:B:1357:LEU:CD1	2.18	0.71
1:C:1119:GLY:O	1:C:1120:MET:SD	2.48	0.71
1:C:1149:ASN:O	1:C:1153:LEU:CB	2.38	0.71
2:F:106:ARG:HA	2:F:106:ARG:HH21	1.55	0.71
2:F:194:UNK:C	2:F:197:UNK:CB	2.68	0.71
1:B:1215:LYS:C	1:B:1217:LEU:H	1.96	0.71
1:C:1588:ARG:HH21	2:D:192:UNK:C	2.03	0.71
2:E:119:ALA:C	2:E:123:MET:HG2	2.15	0.71
1:A:1161:ARG:NE	1:A:1173:LEU:HD23	2.05	0.71
1:A:1496:ALA:HB2	1:A:1514:LEU:HD22	1.70	0.71
1:B:1551:GLU:CD	1:B:1582:VAL:HG22	2.15	0.71
1:B:1598:TYR:OH	2:D:197:UNK:O	2.06	0.71
1:A:1384:ASP:OD1	2:F:115:GLU:CD	2.32	0.71
1:B:1409:GLN:O	1:B:1413:GLU:CB	2.31	0.71
1:C:1199:GLN:C	1:C:1201:VAL:H	1.97	0.71
1:B:1112:ALA:HB1	1:B:1140:VAL:HG21	1.72	0.71
1:B:1282:GLU:O	1:B:1283:LEU:CB	2.38	0.71
1:C:1586:ALA:HB3	1:C:1594:PHE:CZ	2.24	0.71
2:E:90:ALA:H	2:E:91:GLN:HA	1.55	0.71
1:A:1149:ASN:O	1:A:1153:LEU:CB	2.39	0.71
1:A:1150:TRP:O	1:A:1153:LEU:N	2.24	0.71
1:A:1159:MET:CE	1:A:1162:LYS:HD2	2.20	0.71
1:A:1180:THR:HG22	1:A:1181:ASN:ND2	2.05	0.71
1:A:1362:VAL:CG2	1:A:1377:THR:HG21	2.21	0.71
1:B:1572:THR:HG21	1:B:1599:PHE:HD2	1.55	0.71
1:C:1122:LYS:NZ	1:C:1147:SER:HB3	2.05	0.71
1:C:1130:LYS:HD2	1:C:1156:TYR:CD1	2.26	0.71
1:C:1136:SER:CB	1:C:1140:VAL:HG23	2.21	0.71
1:C:1324:TYR:HD2	1:C:1332:MET:HA	1.55	0.71
2:F:127:TRP:CD1	2:F:128:ARG:HG3	2.25	0.71
1:A:1358:TRP:CE3	1:A:1377:THR:HG22	2.24	0.71
1:B:1279:HIS:HD2	1:B:1282:GLU:HB3	1.55	0.71
1:B:1411:TYR:O	1:B:1415:LYS:O	2.09	0.71
1:C:1244:ALA:H	1:C:1275:HIS:CE1	2.07	0.71
1:C:1554:LEU:HD11	1:C:1568:ALA:HB2	1.73	0.71
1:A:1136:SER:CB	1:A:1141:VAL:HG11	2.21	0.71
1:A:1463:VAL:HG12	1:A:1467:LEU:HD22	1.73	0.71
1:B:1116:LEU:HD11	1:B:1122:LYS:HD3	1.71	0.71
1:B:1266:PHE:HB2	1:B:1268:LEU:HG	1.72	0.71
1:C:1092:LEU:C	1:C:1094:ARG:N	2.46	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:112:ARG:O	2:E:113:LEU:C	2.32	0.71
2:E:118:ALA:HA	2:E:121:LYS:NZ	2.06	0.71
1:A:1266:PHE:HB2	1:A:1268:LEU:HG	1.72	0.71
1:A:1554:LEU:HD11	1:A:1568:ALA:HB2	1.73	0.71
1:C:1199:GLN:C	1:C:1201:VAL:N	2.46	0.71
1:C:1259:ALA:HA	1:C:1293:ARG:NH1	2.05	0.71
1:C:1411:TYR:O	1:C:1415:LYS:O	2.09	0.71
1:A:1362:VAL:HG22	1:A:1377:THR:HG21	1.70	0.71
1:B:1161:ARG:NE	1:B:1173:LEU:HD23	2.06	0.71
1:B:1554:LEU:HD11	1:B:1568:ALA:HB2	1.73	0.71
1:C:1168:TYR:N	1:C:1168:TYR:CD1	2.55	0.71
1:C:1277:VAL:O	1:C:1278:VAL:C	2.34	0.71
2:F:118:ALA:HA	2:F:121:LYS:NZ	2.06	0.71
1:A:1086:ILE:HB	1:A:1089:ILE:HB	1.73	0.70
1:A:1116:LEU:HD11	1:A:1122:LYS:HB3	1.73	0.70
1:A:1274:LEU:HA	1:A:1277:VAL:HG21	1.71	0.70
1:A:1368:TYR:CD1	1:A:1370:GLU:CG	2.75	0.70
1:A:1598:TYR:CZ	1:B:1584:GLU:OE2	2.44	0.70
1:B:1253:TRP:C	1:B:1255:GLU:N	2.47	0.70
1:B:1601:GLN:CD	1:C:1587:TRP:CH2	2.69	0.70
1:C:1150:TRP:O	1:C:1153:LEU:N	2.24	0.70
2:F:134:ASP:O	2:F:137:GLU:HB2	1.90	0.70
1:A:1161:ARG:HE	1:A:1173:LEU:HD23	1.55	0.70
1:B:1084:VAL:HB	1:B:1098:PHE:CZ	2.26	0.70
1:B:1324:TYR:HD2	1:B:1332:MET:HA	1.55	0.70
1:B:1358:TRP:CE3	1:B:1377:THR:HG22	2.24	0.70
1:C:1425:VAL:HG23	1:C:1426:LEU:N	2.06	0.70
2:F:112:ARG:O	2:F:113:LEU:C	2.32	0.70
1:A:1218:TYR:HE2	1:A:1227:LEU:HB2	1.56	0.70
1:C:1266:PHE:HB2	1:C:1268:LEU:HG	1.72	0.70
1:C:1295:TYR:O	1:C:1296:PHE:CG	2.44	0.70
1:C:1620:ARG:HH11	1:C:1620:ARG:HG3	1.57	0.70
1:B:1358:TRP:HH2	1:B:1381:HIS:CE1	2.05	0.70
1:B:1463:VAL:HG12	1:B:1467:LEU:HD22	1.73	0.70
1:B:1624:GLU:C	1:B:1626:ALA:H	1.98	0.70
1:C:1481:ARG:HH11	1:C:1510:ILE:HG12	1.55	0.70
2:D:118:ALA:HA	2:D:121:LYS:NZ	2.06	0.70
2:D:119:ALA:C	2:D:123:MET:HG2	2.15	0.70
1:A:1588:ARG:HG3	1:A:1588:ARG:NH1	2.07	0.70
1:B:1206:TYR:CD2	1:B:1226:ARG:HG3	2.26	0.70
1:B:1368:TYR:CD1	1:B:1370:GLU:CG	2.75	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1368:TYR:CD1	1:C:1370:GLU:CG	2.74	0.70
2:D:129:GLU:HB2	2:D:132:LYS:HZ2	1.55	0.70
1:A:1428:PRO:O	1:A:1429:ARG:CB	2.34	0.70
1:B:1598:TYR:CE2	2:D:200:UNK:CB	2.74	0.70
1:C:1514:LEU:HD23	1:C:1514:LEU:C	2.16	0.70
1:A:1466:SER:O	1:A:1470:LEU:HG	1.92	0.70
1:A:1608:THR:HG23	1:B:1607:LEU:CD1	2.22	0.70
1:B:1277:VAL:O	1:B:1278:VAL:C	2.34	0.70
1:B:1362:VAL:CG2	1:B:1377:THR:HG21	2.21	0.70
1:C:1479:ALA:O	1:C:1483:SER:N	2.23	0.70
1:C:1594:PHE:O	1:C:1596:MET:HG3	1.91	0.70
2:F:191:UNK:O	2:F:192:UNK:C	2.39	0.70
1:A:1588:ARG:NH2	2:E:192:UNK:CA	2.51	0.70
1:B:1253:TRP:CE3	1:B:1276:ILE:CB	2.75	0.70
1:B:1425:VAL:HG23	1:B:1426:LEU:N	2.06	0.70
1:B:1466:SER:O	1:B:1470:LEU:HG	1.92	0.70
1:C:1253:TRP:CE3	1:C:1276:ILE:CB	2.75	0.70
1:C:1253:TRP:C	1:C:1255:GLU:N	2.47	0.70
2:F:194:UNK:C	2:F:197:UNK:HA	2.20	0.70
1:A:1281:ASP:N	1:A:1281:ASP:CB	2.54	0.70
1:A:1425:VAL:HG23	1:A:1426:LEU:N	2.05	0.70
1:B:1116:LEU:CD1	1:B:1122:LYS:HD3	2.21	0.70
1:C:1192:GLY:H	1:C:1193:PRO:CD	2.03	0.70
2:D:180:UNK:C	2:D:183:UNK:CB	2.69	0.70
2:E:189:UNK:CA	2:E:195:UNK:N	2.55	0.70
1:A:1587:TRP:CH2	1:C:1601:GLN:HG2	2.27	0.69
1:C:1362:VAL:CG2	1:C:1377:THR:HG21	2.21	0.69
1:A:1157:LEU:HD13	1:A:1177:LEU:HD23	1.73	0.69
1:A:1496:ALA:HB3	1:A:1515:PHE:CZ	2.28	0.69
1:B:1514:LEU:HD23	1:B:1514:LEU:C	2.17	0.69
1:C:1290:TYR:HE2	1:C:1299:LEU:CD1	1.96	0.69
1:C:1412:LEU:N	1:C:1419:LEU:HD13	2.07	0.69
2:F:98:GLU:HB2	2:F:99:PRO:HD3	1.74	0.69
1:A:1330:GLN:HG3	1:A:1331:LYS:H	1.55	0.69
1:A:1382:PRO:HG3	1:A:1410:PHE:HE1	1.57	0.69
1:B:1475:GLU:CD	2:D:149:ASN:HD21	2.00	0.69
1:B:1496:ALA:HB3	1:B:1515:PHE:CZ	2.28	0.69
1:C:1615:ALA:O	1:C:1619:LEU:HD23	1.93	0.69
2:E:180:UNK:O	2:E:181:UNK:C	2.40	0.69
2:F:129:GLU:HB2	2:F:132:LYS:HZ2	1.55	0.69
1:A:1232:VAL:HG22	1:A:1233:HIS:N	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1258:PHE:CE1	1:A:1293:ARG:HG3	2.27	0.69
1:C:1182:ARG:H	1:C:1183:LEU:HG	1.57	0.69
1:C:1504:LEU:CD2	2:E:149:ASN:CG	2.66	0.69
1:A:1111:LEU:HD11	1:A:1125:ILE:HG13	1.72	0.69
1:A:1448:VAL:HB	1:A:1451:TYR:HD2	1.58	0.69
1:B:1303:LEU:O	1:B:1307:LEU:HD13	1.92	0.69
1:C:1377:THR:HA	1:C:1381:HIS:HD2	1.56	0.69
1:A:1566:PHE:CE2	2:F:180:UNK:CB	2.74	0.69
1:B:1190:ILE:HD13	1:B:1216:LEU:HD11	1.73	0.69
1:B:1448:VAL:HB	1:B:1451:TYR:HD2	1.57	0.69
1:C:1382:PRO:HG3	1:C:1410:PHE:HE1	1.57	0.69
2:D:189:UNK:O	2:D:190:UNK:C	2.40	0.69
2:E:129:GLU:HB2	2:E:132:LYS:HZ2	1.57	0.69
2:F:195:UNK:C	2:F:197:UNK:H2	2.06	0.69
1:A:1103:ASN:O	1:A:1105:PRO:HD3	1.91	0.69
1:A:1253:TRP:CE3	1:A:1276:ILE:CB	2.75	0.69
1:B:1168:TYR:CD1	1:B:1168:TYR:N	2.59	0.69
1:C:1317:PHE:HD2	1:C:1317:PHE:N	1.91	0.69
1:C:1409:GLN:O	1:C:1413:GLU:CB	2.31	0.69
1:A:1277:VAL:O	1:A:1278:VAL:C	2.34	0.69
1:A:1290:TYR:CD2	1:A:1295:TYR:HE2	2.10	0.69
1:A:1386:TRP:CZ2	1:A:1388:GLU:HA	2.28	0.69
1:A:1387:LYS:CB	1:A:1390:GLN:CB	2.67	0.69
1:A:1409:GLN:C	1:A:1413:GLU:HB2	2.18	0.69
1:A:1514:LEU:HD23	1:A:1514:LEU:C	2.17	0.69
1:A:1615:ALA:O	1:A:1619:LEU:HD23	1.92	0.69
1:A:1620:ARG:HH11	1:A:1620:ARG:HG3	1.57	0.69
1:B:1085:LEU:HD22	1:B:1125:ILE:HD11	1.73	0.69
1:B:1377:THR:HA	1:B:1381:HIS:HD2	1.57	0.69
1:B:1412:LEU:N	1:B:1419:LEU:HD13	2.08	0.69
1:B:1416:PRO:CG	2:D:130:LYS:CG	2.63	0.69
1:B:1509:ARG:NH1	2:D:163:GLN:HA	2.08	0.69
1:B:1521:TRP:CZ3	1:B:1522:LYS:HD2	2.28	0.69
1:B:1588:ARG:CZ	2:F:190:UNK:O	2.40	0.69
1:C:1098:PHE:O	1:C:1102:CYS:HB3	1.91	0.69
1:C:1167:SER:O	1:C:1171:THR:N	2.26	0.69
1:C:1463:VAL:HG12	1:C:1467:LEU:HD22	1.73	0.69
1:C:1482:THR:HA	1:C:1485:ASP:OD2	1.93	0.69
1:C:1596:MET:CE	1:C:1597:PRO:HD3	2.23	0.69
2:D:174:UNK:N	2:D:176:UNK:N	2.41	0.69
1:A:1303:LEU:O	1:A:1307:LEU:HD13	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1409:GLN:O	1:A:1413:GLU:CB	2.31	0.69
1:A:1209:LYS:HB3	1:A:1230:THR:HG22	1.73	0.69
1:A:1279:HIS:NE2	1:A:1283:LEU:HD11	1.87	0.69
1:A:1482:THR:HA	1:A:1485:ASP:OD2	1.93	0.69
1:B:1409:GLN:C	1:B:1413:GLU:HB2	2.18	0.69
1:B:1615:ALA:O	1:B:1619:LEU:HD23	1.92	0.69
1:C:1254:LYS:HD2	1:C:1285:GLU:CD	2.17	0.69
1:C:1279:HIS:NE2	1:C:1283:LEU:CD1	2.56	0.69
1:C:1303:LEU:O	1:C:1307:LEU:HD13	1.92	0.69
1:C:1496:ALA:HB3	1:C:1515:PHE:CZ	2.28	0.69
1:A:1494:SER:HA	1:A:1497:GLN:CG	2.23	0.68
1:A:1521:TRP:CZ3	1:A:1522:LYS:HD2	2.28	0.68
1:A:1605:GLU:HB2	1:B:1580:ASP:OD1	1.93	0.68
1:B:1085:LEU:HD12	1:B:1085:LEU:O	1.93	0.68
1:B:1122:LYS:O	1:B:1126:ASP:CB	2.41	0.68
1:B:1327:PHE:HE1	2:D:104:LYS:HG3	1.58	0.68
1:B:1414:PHE:HD1	2:D:127:TRP:CB	2.06	0.68
1:B:1601:GLN:CD	1:C:1587:TRP:HH2	2.01	0.68
1:C:1120:MET:O	1:C:1121:VAL:HG13	1.93	0.68
1:C:1234:LEU:HD21	1:C:1264:LYS:HZ3	1.58	0.68
1:C:1295:TYR:C	1:C:1296:PHE:CG	2.71	0.68
1:C:1466:SER:O	1:C:1470:LEU:HG	1.92	0.68
2:D:127:TRP:HA	2:D:130:LYS:CE	2.23	0.68
1:A:1157:LEU:HD13	1:A:1177:LEU:CD2	2.23	0.68
1:A:1168:TYR:CD1	1:A:1168:TYR:N	2.60	0.68
1:B:1174:ILE:CG2	1:B:1201:VAL:HG22	2.23	0.68
1:B:1382:PRO:HG3	1:B:1410:PHE:HE1	1.57	0.68
1:B:1617:GLU:HG2	1:B:1621:LYS:HZ3	1.58	0.68
1:C:1113:LYS:HG3	1:C:1139:GLU:OE2	1.94	0.68
1:C:1349:LEU:HA	1:C:1352:ALA:HB3	1.76	0.68
1:C:1494:SER:HA	1:C:1497:GLN:CG	2.22	0.68
1:A:1290:TYR:CD2	1:A:1295:TYR:CE2	2.80	0.68
1:B:1386:TRP:CZ2	1:B:1388:GLU:HA	2.28	0.68
1:B:1494:SER:HA	1:B:1497:GLN:CG	2.23	0.68
1:A:1192:GLY:N	1:A:1193:PRO:HD3	2.07	0.68
1:B:1209:LYS:HB2	1:B:1231:LEU:HB3	1.75	0.68
1:C:1270:GLN:HG3	1:C:1298:GLU:HG3	1.75	0.68
1:C:1295:TYR:C	1:C:1296:PHE:CD1	2.71	0.68
2:E:127:TRP:HA	2:E:130:LYS:CE	2.23	0.68
1:A:1263:GLY:O	1:A:1264:LYS:HB3	1.94	0.68
1:B:1537:ALA:HA	1:B:1540:TYR:CZ	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:110:ARG:CZ	2:E:110:ARG:HB2	2.24	0.68
1:A:1377:THR:HA	1:A:1381:HIS:HD2	1.57	0.68
1:B:1317:PHE:HD2	1:B:1317:PHE:N	1.91	0.68
1:B:1327:PHE:CE1	2:D:104:LYS:HG3	2.28	0.68
1:B:1384:ASP:OD1	2:D:115:GLU:OE1	2.11	0.68
1:B:1408:ILE:CG2	1:B:1412:LEU:HB2	2.23	0.68
1:B:1509:ARG:HH12	2:D:163:GLN:HA	1.58	0.68
1:C:1087:GLU:O	1:C:1088:HIS:HB2	1.93	0.68
1:C:1122:LYS:O	1:C:1126:ASP:CB	2.41	0.68
1:C:1157:LEU:HB2	1:C:1173:LEU:HD13	1.75	0.68
1:C:1386:TRP:CZ2	1:C:1388:GLU:HA	2.28	0.68
1:C:1537:ALA:HA	1:C:1540:TYR:CZ	2.28	0.68
2:E:100:GLU:OE2	2:E:103:ARG:HD2	1.94	0.68
2:E:104:LYS:O	2:E:108:GLU:HB3	1.92	0.68
2:F:195:UNK:O	2:F:196:UNK:C	2.38	0.68
1:A:1082:VAL:HG21	1:A:1105:PRO:HG3	1.76	0.68
1:B:1161:ARG:HH12	1:B:1193:PRO:C	2.02	0.68
1:B:1349:LEU:HA	1:B:1352:ALA:HB3	1.76	0.68
1:B:1566:PHE:CE2	2:D:182:UNK:CB	2.77	0.68
1:B:1594:PHE:O	1:B:1596:MET:HG3	1.94	0.68
1:B:1620:ARG:HH11	1:B:1620:ARG:HG3	1.57	0.68
1:C:1168:TYR:HA	1:C:1172:GLU:OE2	1.93	0.68
1:C:1566:PHE:CE2	2:E:181:UNK:HA	2.28	0.68
1:C:1588:ARG:HH21	2:D:193:UNK:CA	2.03	0.68
2:D:110:ARG:HB2	2:D:110:ARG:CZ	2.23	0.68
2:E:110:ARG:HB2	2:E:110:ARG:NH2	2.09	0.68
2:F:119:ALA:C	2:F:123:MET:HG2	2.17	0.68
1:A:1349:LEU:HA	1:A:1352:ALA:HB3	1.76	0.68
1:B:1420:ASN:HA	1:B:1423:LEU:HG	1.76	0.68
1:C:1136:SER:HB2	1:C:1140:VAL:HG23	1.76	0.68
1:C:1455:VAL:CG1	1:C:1456:GLN:H	1.95	0.68
1:A:1327:PHE:O	1:A:1329:PRO:HD3	1.94	0.68
1:B:1122:LYS:HA	1:B:1125:ILE:CG2	2.20	0.68
1:B:1218:TYR:CD2	1:B:1227:LEU:HD12	2.29	0.68
1:B:1263:GLY:O	1:B:1264:LYS:HB3	1.93	0.68
1:B:1568:ALA:HB1	1:B:1578:ARG:NH2	2.09	0.68
1:C:1181:ASN:C	1:C:1182:ARG:HD3	2.19	0.68
2:E:90:ALA:HB3	2:E:91:GLN:HA	1.75	0.68
1:A:1246:LYS:O	1:A:1247:ALA:HB3	1.92	0.68
1:A:1588:ARG:CD	2:E:195:UNK:CB	2.70	0.68
1:A:1617:GLU:HG2	1:A:1621:LYS:HZ3	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1199:GLN:OE1	1:C:1199:GLN:HA	1.92	0.68
1:C:1376:ILE:HD13	1:C:1379:MET:SD	2.34	0.68
1:C:1409:GLN:C	1:C:1413:GLU:HB2	2.18	0.68
2:F:110:ARG:CZ	2:F:110:ARG:HB2	2.24	0.68
1:A:1279:HIS:CG	1:A:1282:GLU:HB3	2.29	0.67
1:C:1161:ARG:HH22	1:C:1174:ILE:HD11	1.58	0.67
1:A:1122:LYS:O	1:A:1126:ASP:CB	2.41	0.67
1:A:1223:ASN:N	1:A:1223:ASN:CB	2.55	0.67
1:B:1107:VAL:CG1	1:B:1111:LEU:HB2	2.24	0.67
1:A:1174:ILE:HG21	1:A:1201:VAL:CG2	2.24	0.67
1:B:1475:GLU:OE2	2:D:149:ASN:OD1	2.12	0.67
1:A:1279:HIS:CD2	1:A:1282:GLU:N	2.60	0.67
1:A:1317:PHE:HD2	1:A:1317:PHE:N	1.91	0.67
1:B:1327:PHE:O	1:B:1329:PRO:HD3	1.94	0.67
1:B:1482:THR:HA	1:B:1485:ASP:OD2	1.93	0.67
1:C:1527:LEU:HD21	1:C:1540:TYR:OH	1.95	0.67
1:C:1584:GLU:HA	1:C:1587:TRP:CE2	2.30	0.67
1:A:1537:ALA:HA	1:A:1540:TYR:CZ	2.29	0.67
1:B:1082:VAL:HG11	1:B:1105:PRO:HB2	1.77	0.67
1:C:1188:GLU:OE2	1:C:1191:ASN:CB	2.34	0.67
1:C:1211:TYR:CE1	1:C:1231:LEU:CD2	2.72	0.67
1:C:1420:ASN:HA	1:C:1423:LEU:HG	1.76	0.67
2:F:110:ARG:HB2	2:F:110:ARG:NH2	2.09	0.67
1:A:1107:VAL:CG1	1:A:1111:LEU:HB2	2.24	0.67
1:C:1263:GLY:O	1:C:1264:LYS:HB3	1.94	0.67
1:C:1296:PHE:CD2	1:C:1297:GLU:HG2	2.29	0.67
1:A:1257:CYS:SG	1:A:1269:ALA:HB1	2.35	0.67
1:B:1257:CYS:SG	1:B:1269:ALA:HB1	2.35	0.67
1:B:1584:GLU:HA	1:B:1587:TRP:CE2	2.30	0.67
1:C:1188:GLU:C	1:C:1190:ILE:H	2.02	0.67
1:C:1448:VAL:HB	1:C:1451:TYR:HD2	1.57	0.67
1:A:1326:LYS:HZ3	1:A:1354:GLN:HG2	1.60	0.67
1:B:1333:ARG:CB	1:B:1360:GLU:CG	2.73	0.67
1:B:1596:MET:CE	1:B:1597:PRO:HD3	2.23	0.67
1:C:1414:PHE:CE1	2:E:127:TRP:CE3	2.83	0.67
2:D:133:LYS:HA	2:D:133:LYS:HZ2	1.59	0.67
1:A:1167:SER:O	1:A:1168:TYR:CG	2.47	0.67
1:A:1572:THR:HG21	1:A:1599:PHE:HD2	1.59	0.67
2:D:110:ARG:HB2	2:D:110:ARG:NH2	2.09	0.67
1:A:1083:GLN:NE2	1:A:1107:VAL:HG23	2.09	0.67
2:F:127:TRP:HA	2:F:130:LYS:CE	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1327:PHE:O	1:C:1329:PRO:HD3	1.94	0.66
1:C:1372:ASP:OD1	1:C:1373:ASN:N	2.28	0.66
1:C:1474:GLU:O	2:E:141:ARG:HD3	1.95	0.66
2:E:181:UNK:O	2:E:183:UNK:N	2.28	0.66
1:A:1136:SER:HA	1:A:1141:VAL:HG21	1.78	0.66
1:A:1420:ASN:HA	1:A:1423:LEU:HG	1.76	0.66
1:A:1479:ALA:O	1:A:1483:SER:N	2.23	0.66
1:B:1479:ALA:O	1:B:1483:SER:N	2.23	0.66
1:B:1527:LEU:HD21	1:B:1540:TYR:OH	1.95	0.66
1:C:1521:TRP:CZ3	1:C:1522:LYS:HD2	2.29	0.66
1:B:1180:THR:HG22	1:B:1181:ASN:OD1	1.95	0.66
2:D:133:LYS:HA	2:D:133:LYS:HZ1	1.59	0.66
2:E:146:VAL:HA	2:E:149:ASN:CG	2.20	0.66
1:B:1083:GLN:NE2	1:B:1106:ALA:HB3	2.10	0.66
1:B:1372:ASP:OD1	1:B:1373:ASN:N	2.28	0.66
1:B:1600:ILE:O	1:B:1604:LYS:HG3	1.95	0.66
1:C:1257:CYS:SG	1:C:1269:ALA:HB1	2.35	0.66
1:A:1362:VAL:CG2	1:A:1377:THR:CG2	2.74	0.66
1:C:1091:ASN:O	1:C:1092:LEU:HD12	1.95	0.66
1:C:1215:LYS:HD3	1:C:1216:LEU:N	2.11	0.66
2:D:103:ARG:NH1	2:D:106:ARG:HG3	2.11	0.66
2:E:89:ILE:N	2:E:90:ALA:HA	2.08	0.66
1:A:1206:TYR:CD1	1:A:1226:ARG:O	2.48	0.66
1:A:1333:ARG:CB	1:A:1360:GLU:CG	2.73	0.66
1:A:1584:GLU:HA	1:A:1587:TRP:CE2	2.30	0.66
1:B:1387:LYS:CB	1:B:1390:GLN:CB	2.67	0.66
1:B:1547:THR:HG23	1:B:1577:LEU:HB2	1.78	0.66
2:F:154:ARG:NH1	2:F:154:ARG:HB3	2.11	0.66
1:A:1161:ARG:NH2	1:A:1174:ILE:HG13	2.11	0.66
1:A:1234:LEU:CG	1:A:1235:GLY:H	2.09	0.66
1:A:1280:ALA:CA	1:A:1280:ALA:O	2.40	0.66
1:A:1447:LEU:O	1:A:1450:PRO:HD2	1.96	0.66
1:B:1198:ILE:O	1:B:1198:ILE:CG2	2.44	0.66
1:B:1572:THR:HG21	1:B:1599:PHE:CE2	2.31	0.66
1:C:1371:TYR:CD1	1:C:1394:ILE:HG22	2.30	0.66
1:C:1411:TYR:O	1:C:1415:LYS:C	2.39	0.66
2:D:154:ARG:HB3	2:D:154:ARG:NH1	2.11	0.66
2:E:134:ASP:O	2:E:137:GLU:CB	2.43	0.66
1:A:1332:MET:SD	1:A:1360:GLU:CG	2.84	0.66
1:B:1122:LYS:CA	1:B:1125:ILE:HG22	2.21	0.66
1:B:1371:TYR:CD1	1:B:1394:ILE:HG22	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1447:LEU:O	1:B:1450:PRO:HD2	1.96	0.66
1:B:1588:ARG:NH2	2:F:192:UNK:H2	1.93	0.66
1:C:1230:THR:O	1:C:1231:LEU:CB	2.44	0.66
1:C:1332:MET:SD	1:C:1360:GLU:CG	2.83	0.66
1:C:1333:ARG:CB	1:C:1360:GLU:CG	2.74	0.66
1:C:1336:LEU:HD12	1:C:1360:GLU:HB3	1.78	0.66
1:C:1600:ILE:O	1:C:1604:LYS:HG3	1.95	0.66
2:D:112:ARG:C	2:D:113:LEU:O	2.38	0.66
1:A:1116:LEU:HD21	1:A:1122:LYS:HB3	1.77	0.66
1:A:1130:LYS:HG2	1:A:1156:TYR:CZ	2.31	0.66
1:A:1136:SER:HB3	1:A:1141:VAL:HG11	1.76	0.66
1:A:1336:LEU:HD12	1:A:1360:GLU:HB3	1.78	0.66
1:A:1358:TRP:CE2	1:A:1381:HIS:ND1	2.64	0.66
1:A:1527:LEU:HD21	1:A:1540:TYR:OH	1.95	0.66
1:A:1578:ARG:HD3	1:A:1582:VAL:HB	1.78	0.66
1:B:1168:TYR:HA	1:B:1172:GLU:OE2	1.95	0.66
1:B:1188:GLU:C	1:B:1190:ILE:H	2.02	0.66
1:B:1192:GLY:N	1:B:1193:PRO:CD	2.59	0.66
1:C:1406:ARG:O	1:C:1409:GLN:HB3	1.95	0.66
1:C:1504:LEU:HG	2:E:149:ASN:CG	2.12	0.66
2:F:112:ARG:C	2:F:112:ARG:HD3	2.20	0.66
1:A:1372:ASP:OD1	1:A:1373:ASN:N	2.28	0.66
1:A:1406:ARG:O	1:A:1409:GLN:HB3	1.95	0.66
1:A:1539:GLN:NE2	2:F:177:UNK:CB	2.59	0.66
1:A:1596:MET:CE	1:A:1597:PRO:HD3	2.26	0.66
1:B:1167:SER:O	1:B:1168:TYR:CD1	2.49	0.66
1:C:1082:VAL:HG22	1:C:1107:VAL:CG2	2.20	0.66
1:C:1588:ARG:NH2	2:D:193:UNK:O	2.27	0.66
1:C:1596:MET:HE3	1:C:1597:PRO:HD3	1.78	0.66
2:D:146:VAL:HA	2:D:149:ASN:CG	2.21	0.66
1:A:1188:GLU:C	1:A:1190:ILE:H	2.02	0.65
1:A:1255:GLU:N	1:A:1289:TYR:CE2	2.65	0.65
1:B:1414:PHE:HD1	2:D:127:TRP:HB2	1.61	0.65
1:C:1258:PHE:CE1	1:C:1293:ARG:CZ	2.80	0.65
1:C:1279:HIS:NE2	1:C:1283:LEU:HD11	2.10	0.65
1:C:1358:TRP:CZ3	1:C:1381:HIS:CE1	2.70	0.65
1:C:1362:VAL:CG2	1:C:1377:THR:CG2	2.74	0.65
2:D:98:GLU:HB3	2:D:99:PRO:CD	2.23	0.65
2:E:93:ASP:OD2	2:E:97:GLN:HG2	1.95	0.65
2:F:134:ASP:O	2:F:137:GLU:CB	2.44	0.65
1:A:1121:VAL:O	1:A:1123:GLU:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1160:ALA:O	1:A:1164:ALA:HB3	1.95	0.65
1:B:1165:ARG:O	1:B:1165:ARG:HG3	1.96	0.65
1:B:1234:LEU:CG	1:B:1235:GLY:H	2.09	0.65
1:C:1362:VAL:CG2	1:C:1377:THR:HB	2.26	0.65
1:A:1290:TYR:CE2	1:A:1295:TYR:HE2	2.14	0.65
1:A:1600:ILE:O	1:A:1604:LYS:HG3	1.95	0.65
1:B:1336:LEU:HD12	1:B:1360:GLU:HB3	1.79	0.65
1:C:1161:ARG:NH2	1:C:1195:ASN:HB3	2.11	0.65
1:C:1326:LYS:HZ3	1:C:1354:GLN:HG2	1.59	0.65
1:A:1605:GLU:HG3	1:B:1580:ASP:OD2	1.96	0.65
1:B:1332:MET:SD	1:B:1360:GLU:CG	2.84	0.65
1:C:1428:PRO:O	1:C:1429:ARG:HB3	1.96	0.65
1:C:1578:ARG:HD3	1:C:1582:VAL:HB	1.78	0.65
1:A:1409:GLN:CB	1:A:1413:GLU:HG2	2.25	0.65
1:A:1535:LYS:HZ1	1:A:1563:ARG:HH12	1.44	0.65
1:A:1598:TYR:CD2	2:F:198:UNK:CB	2.80	0.65
1:B:1157:LEU:HD13	1:B:1177:LEU:HD23	1.77	0.65
1:A:1257:CYS:SG	1:A:1290:TYR:CE1	2.89	0.65
1:B:1358:TRP:CE2	1:B:1381:HIS:ND1	2.64	0.65
1:B:1406:ARG:O	1:B:1409:GLN:HB3	1.95	0.65
1:B:1411:TYR:O	1:B:1415:LYS:C	2.39	0.65
1:B:1562:LYS:C	1:B:1564:GLU:H	2.04	0.65
1:B:1578:ARG:HD3	1:B:1582:VAL:HB	1.78	0.65
1:B:1588:ARG:NH2	2:F:190:UNK:O	2.28	0.65
1:C:1112:ALA:O	1:C:1116:LEU:HB2	1.97	0.65
1:C:1198:ILE:CB	1:C:1221:VAL:HG22	2.25	0.65
1:C:1447:LEU:O	1:C:1450:PRO:HD2	1.95	0.65
1:C:1562:LYS:C	1:C:1564:GLU:H	2.04	0.65
2:D:155:ILE:HD13	2:D:155:ILE:N	2.12	0.65
2:E:112:ARG:C	2:E:112:ARG:HD3	2.20	0.65
1:A:1295:TYR:CE1	1:A:1298:GLU:HB2	2.31	0.65
1:B:1215:LYS:HD3	1:B:1216:LEU:N	2.11	0.65
1:B:1362:VAL:CG2	1:B:1377:THR:CG2	2.74	0.65
1:C:1358:TRP:CE2	1:C:1381:HIS:ND1	2.65	0.65
2:D:60:UNK:O	2:D:61:UNK:C	2.44	0.65
2:F:162:GLN:O	2:F:164:PRO:N	2.30	0.65
1:A:1112:ALA:O	1:A:1116:LEU:HB2	1.97	0.65
1:A:1162:LYS:O	1:A:1163:LYS:HE2	1.97	0.65
2:F:109:GLN:O	2:F:112:ARG:HB3	1.97	0.65
2:F:146:VAL:HA	2:F:149:ASN:CG	2.21	0.65
1:A:1108:TRP:NE1	1:A:1131:ALA:CB	2.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1572:THR:HG21	1:A:1599:PHE:CE2	2.31	0.65
1:C:1232:VAL:HG13	1:C:1233:HIS:N	2.11	0.65
1:A:1086:ILE:HB	1:A:1089:ILE:HD13	1.79	0.65
1:A:1255:GLU:C	1:A:1289:TYR:HE2	2.05	0.65
1:B:1162:LYS:O	1:B:1163:LYS:C	2.13	0.65
1:C:1409:GLN:HG3	1:C:1413:GLU:HG3	0.67	0.65
2:D:109:GLN:O	2:D:112:ARG:HB3	1.96	0.65
2:F:143:SER:O	2:F:147:GLU:HB2	1.97	0.65
2:F:184:UNK:O	2:F:185:UNK:C	2.44	0.65
1:A:1085:LEU:CD1	1:A:1111:LEU:HG	2.28	0.64
1:A:1578:ARG:CZ	1:A:1583:LEU:CD2	2.69	0.64
1:B:1409:GLN:HG3	1:B:1413:GLU:HG3	0.68	0.64
1:C:1588:ARG:NH2	2:D:193:UNK:HA	2.12	0.64
1:B:1277:VAL:O	1:B:1279:HIS:ND1	2.31	0.64
1:C:1174:ILE:CG1	1:C:1196:ALA:HA	2.18	0.64
1:A:1215:LYS:HD3	1:A:1216:LEU:N	2.11	0.64
1:B:1082:VAL:HG11	1:B:1105:PRO:HB3	1.78	0.64
1:B:1326:LYS:HZ3	1:B:1354:GLN:HG2	1.61	0.64
1:C:1248:ASN:N	1:C:1248:ASN:CB	2.59	0.64
1:C:1358:TRP:HH2	1:C:1381:HIS:CE1	2.05	0.64
1:C:1412:LEU:CB	1:C:1419:LEU:HD13	2.27	0.64
2:E:154:ARG:HB3	2:E:154:ARG:NH1	2.11	0.64
1:A:1218:TYR:CD2	1:A:1227:LEU:HD12	2.32	0.64
1:B:1112:ALA:O	1:B:1116:LEU:HB2	1.97	0.64
1:B:1245:ARG:O	1:B:1245:ARG:CG	2.45	0.64
1:B:1620:ARG:NH1	1:B:1620:ARG:CG	2.53	0.64
1:C:1504:LEU:HD11	2:E:149:ASN:HD21	0.81	0.64
1:A:1168:TYR:HA	1:A:1172:GLU:OE2	1.97	0.64
1:B:1347:LYS:HD3	1:B:1348:VAL:N	2.12	0.64
2:E:116:LEU:O	2:E:119:ALA:HB3	1.98	0.64
2:F:191:UNK:O	2:F:193:UNK:N	2.30	0.64
1:A:1296:PHE:O	1:A:1298:GLU:N	2.30	0.64
1:A:1347:LYS:HD3	1:A:1348:VAL:N	2.12	0.64
1:A:1412:LEU:N	1:A:1419:LEU:HD13	2.12	0.64
1:A:1443:LYS:O	1:A:1443:LYS:HG2	1.97	0.64
1:B:1136:SER:HA	1:B:1141:VAL:HG21	1.79	0.64
1:B:1554:LEU:HD23	1:B:1582:VAL:CG1	2.28	0.64
1:C:1378:MET:HE1	1:C:1394:ILE:HD12	1.78	0.64
1:C:1402:GLU:OE1	1:C:1403:LEU:N	2.31	0.64
1:C:1417:LEU:O	1:C:1418:LEU:CB	2.35	0.64
2:E:112:ARG:O	2:E:113:LEU:O	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1080:SER:O	1:B:1084:VAL:HG23	1.97	0.64
1:B:1264:LYS:HG3	1:B:1266:PHE:CD2	2.32	0.64
1:C:1401:VAL:HA	1:C:1404:TYR:CD1	2.32	0.64
1:C:1408:ILE:HG22	1:C:1412:LEU:HD23	1.80	0.64
1:C:1414:PHE:CE1	2:E:127:TRP:HZ3	2.12	0.64
1:A:1108:TRP:HA	1:A:1108:TRP:CE3	2.33	0.64
1:A:1108:TRP:HA	1:A:1108:TRP:HE3	1.63	0.64
1:B:1135:SER:HB3	1:B:1159:MET:O	1.97	0.64
1:B:1350:ARG:HH21	1:B:1353:GLU:HB3	1.62	0.64
1:B:1360:GLU:OE1	1:B:1360:GLU:N	2.31	0.64
1:B:1362:VAL:CG2	1:B:1377:THR:HB	2.26	0.64
1:B:1401:VAL:HA	1:B:1404:TYR:CD1	2.32	0.64
1:B:1402:GLU:OE1	1:B:1403:LEU:N	2.31	0.64
1:B:1408:ILE:HG22	1:B:1412:LEU:CD2	2.28	0.64
1:C:1122:LYS:HA	1:C:1125:ILE:CG2	2.24	0.64
1:C:1360:GLU:N	1:C:1360:GLU:OE1	2.31	0.64
2:D:66:UNK:O	2:D:70:UNK:N	2.31	0.64
2:D:143:SER:O	2:D:147:GLU:HB2	1.97	0.64
2:E:108:GLU:OE2	2:E:109:GLN:NE2	2.31	0.64
2:F:16:UNK:C	2:F:18:UNK:H	2.09	0.64
1:A:1401:VAL:HA	1:A:1404:TYR:CD1	2.32	0.64
1:C:1264:LYS:HG3	1:C:1266:PHE:CD2	2.32	0.64
1:C:1401:VAL:HA	1:C:1404:TYR:CE1	2.33	0.64
1:C:1408:ILE:HG22	1:C:1412:LEU:CD2	2.28	0.64
1:C:1443:LYS:O	1:C:1443:LYS:HG2	1.97	0.64
2:D:116:LEU:O	2:D:119:ALA:HB3	1.98	0.64
1:A:1091:ASN:ND2	1:A:1092:LEU:HG	2.12	0.64
1:A:1126:ASP:CG	1:A:1156:TYR:OH	2.41	0.64
1:A:1130:LYS:HZ1	1:A:1155:LYS:HG2	1.63	0.64
1:A:1215:LYS:C	1:A:1217:LEU:N	2.55	0.64
1:A:1264:LYS:HG3	1:A:1266:PHE:CD2	2.33	0.64
1:A:1350:ARG:HH21	1:A:1353:GLU:HB3	1.62	0.64
1:B:1142:GLN:OE1	1:B:1143:ALA:N	2.31	0.64
1:B:1401:VAL:HA	1:B:1404:TYR:CE1	2.33	0.64
1:B:1471:PHE:HB2	1:B:1480:LEU:HD13	1.80	0.64
1:C:1504:LEU:CD1	2:E:149:ASN:CG	2.57	0.64
1:A:1188:GLU:OE2	1:A:1191:ASN:C	2.41	0.63
1:A:1562:LYS:C	1:A:1564:GLU:H	2.06	0.63
1:B:1296:PHE:O	1:B:1298:GLU:N	2.30	0.63
1:C:1142:GLN:OE1	1:C:1143:ALA:N	2.31	0.63
1:C:1296:PHE:O	1:C:1298:GLU:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1350:ARG:HH21	1:C:1353:GLU:HB3	1.62	0.63
1:C:1468:ASN:O	1:C:1472:ILE:HG13	1.98	0.63
2:D:124:GLU:HG3	2:D:125:GLN:N	2.12	0.63
2:E:98:GLU:CA	2:E:101:SER:HB3	2.27	0.63
2:F:112:ARG:O	2:F:113:LEU:O	2.16	0.63
1:A:1137:TYR:HB2	1:A:1138:MET:HE3	1.79	0.63
1:A:1142:GLN:OE1	1:A:1143:ALA:N	2.31	0.63
1:A:1360:GLU:OE1	1:A:1360:GLU:N	2.31	0.63
1:A:1408:ILE:HG22	1:A:1412:LEU:HD23	1.80	0.63
1:B:1384:ASP:OD1	2:D:115:GLU:CD	2.41	0.63
1:B:1412:LEU:CB	1:B:1419:LEU:HD13	2.27	0.63
1:B:1428:PRO:O	1:B:1429:ARG:HB3	1.97	0.63
1:C:1145:ASN:O	1:C:1150:TRP:NE1	2.31	0.63
1:C:1167:SER:C	1:C:1171:THR:CB	2.60	0.63
1:C:1175:PHE:CE2	1:C:1204:ARG:NH2	2.66	0.63
1:C:1349:LEU:HB3	1:C:1353:GLU:OE1	1.99	0.63
1:C:1516:LYS:HB3	1:C:1523:GLN:HB2	1.80	0.63
1:A:1279:HIS:HE1	1:A:1283:LEU:HD11	1.60	0.63
1:A:1412:LEU:CB	1:A:1419:LEU:CD1	2.76	0.63
1:A:1428:PRO:O	1:A:1429:ARG:HB3	1.97	0.63
1:B:1443:LYS:HG2	1:B:1443:LYS:O	1.97	0.63
1:B:1468:ASN:O	1:B:1472:ILE:HG13	1.99	0.63
2:F:124:GLU:HG3	2:F:125:GLN:N	2.12	0.63
1:A:1088:HIS:C	1:A:1089:ILE:HD12	2.23	0.63
1:A:1130:LYS:NZ	1:A:1155:LYS:HG2	2.13	0.63
1:A:1412:LEU:CB	1:A:1419:LEU:HD13	2.27	0.63
1:B:1092:LEU:O	1:B:1094:ARG:N	2.29	0.63
1:B:1412:LEU:CB	1:B:1419:LEU:CD1	2.76	0.63
1:B:1419:LEU:HD12	1:B:1422:LEU:HD12	1.81	0.63
1:C:1475:GLU:OE1	2:E:145:GLN:CG	2.46	0.63
2:D:204:UNK:O	2:D:205:UNK:C	2.47	0.63
1:B:1293:ARG:HA	2:D:97:GLN:OE1	1.99	0.63
1:B:1414:PHE:CD1	2:D:127:TRP:CB	2.81	0.63
1:B:1626:ALA:O	1:B:1630:GLN:HB2	1.98	0.63
1:C:1258:PHE:CZ	1:C:1293:ARG:NH2	2.67	0.63
2:D:129:GLU:O	2:D:132:LYS:HG2	1.99	0.63
1:A:1547:THR:HG23	1:A:1577:LEU:HB2	1.79	0.63
1:B:1264:LYS:NZ	1:B:1268:LEU:HD13	2.13	0.63
1:C:1594:PHE:O	1:C:1596:MET:CE	2.46	0.63
2:E:89:ILE:CB	2:E:90:ALA:HA	2.27	0.63
1:A:1264:LYS:NZ	1:A:1268:LEU:HD13	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1401:VAL:HA	1:A:1404:TYR:CE1	2.33	0.63
1:A:1416:PRO:CD	2:F:130:LYS:CD	2.70	0.63
1:A:1605:GLU:OE2	1:B:1579:PRO:CA	2.46	0.63
1:B:1108:TRP:CE3	1:B:1108:TRP:HA	2.33	0.63
1:B:1108:TRP:HA	1:B:1108:TRP:HE3	1.63	0.63
1:B:1198:ILE:O	1:B:1198:ILE:HG22	1.99	0.63
1:B:1258:PHE:HB2	1:B:1289:TYR:CE2	2.34	0.63
1:B:1349:LEU:HB3	1:B:1353:GLU:OE1	1.99	0.63
1:B:1407:ALA:O	1:B:1408:ILE:C	2.42	0.63
1:B:1516:LYS:HB3	1:B:1523:GLN:HB2	1.80	0.63
1:C:1347:LYS:HD3	1:C:1348:VAL:N	2.12	0.63
2:F:129:GLU:O	2:F:132:LYS:HG2	1.99	0.63
2:F:182:UNK:O	2:F:184:UNK:N	2.31	0.63
1:A:1362:VAL:CG2	1:A:1377:THR:HB	2.27	0.63
1:A:1409:GLN:HG3	1:A:1413:GLU:HG3	0.67	0.63
1:A:1419:LEU:HD12	1:A:1422:LEU:HD12	1.81	0.63
1:B:1434:ARG:O	1:B:1434:ARG:HG2	1.99	0.63
1:C:1419:LEU:HD12	1:C:1422:LEU:HD12	1.81	0.63
1:C:1450:PRO:HA	1:C:1453:ARG:CG	2.28	0.63
1:C:1475:GLU:CB	2:E:145:GLN:HG3	2.29	0.63
2:E:130:LYS:O	2:E:133:LYS:HB2	1.99	0.63
1:A:1407:ALA:O	1:A:1409:GLN:N	2.32	0.63
1:A:1459:ASN:ND2	1:A:1489:ASN:HB2	2.14	0.63
1:A:1471:PHE:HB2	1:A:1480:LEU:HD13	1.80	0.63
1:B:1170:GLU:OE2	1:B:1196:ALA:HB2	1.99	0.63
1:B:1198:ILE:HG23	1:B:1201:VAL:CB	2.29	0.63
1:B:1215:LYS:C	1:B:1217:LEU:N	2.55	0.63
1:B:1408:ILE:HG22	1:B:1412:LEU:HD23	1.80	0.63
1:C:1381:HIS:N	1:C:1382:PRO:HD3	2.14	0.63
1:C:1407:ALA:O	1:C:1409:GLN:N	2.32	0.63
1:C:1412:LEU:CB	1:C:1419:LEU:CD1	2.76	0.63
1:A:1116:LEU:HD11	1:A:1122:LYS:CB	2.29	0.62
1:A:1468:ASN:O	1:A:1472:ILE:HG13	1.99	0.62
1:B:1459:ASN:ND2	1:B:1489:ASN:HB2	2.14	0.62
1:B:1578:ARG:CZ	1:B:1583:LEU:CD2	2.70	0.62
1:C:1136:SER:C	1:C:1136:SER:HA	2.09	0.62
1:C:1215:LYS:C	1:C:1217:LEU:N	2.55	0.62
1:C:1496:ALA:HB3	1:C:1515:PHE:CE1	2.34	0.62
2:E:129:GLU:O	2:E:132:LYS:HG2	1.99	0.62
1:A:1349:LEU:HB3	1:A:1353:GLU:OE1	1.98	0.62
1:A:1402:GLU:OE1	1:A:1403:LEU:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1594:PHE:O	1:A:1596:MET:CE	2.47	0.62
1:B:1144:ALA:CB	1:B:1149:ASN:HB3	2.23	0.62
1:B:1503:GLU:HG3	1:B:1504:LEU:N	2.14	0.62
1:B:1572:THR:CG2	1:B:1599:PHE:CD2	2.83	0.62
1:C:1584:GLU:O	1:C:1587:TRP:N	2.29	0.62
2:F:116:LEU:O	2:F:119:ALA:HB3	1.98	0.62
1:A:1253:TRP:C	1:A:1255:GLU:N	2.48	0.62
1:A:1407:ALA:C	1:A:1409:GLN:N	2.56	0.62
1:A:1408:ILE:CG2	1:A:1412:LEU:HD22	2.28	0.62
1:B:1078:ASN:HB2	1:B:1102:CYS:SG	2.39	0.62
1:B:1496:ALA:HB3	1:B:1515:PHE:CE1	2.34	0.62
1:C:1078:ASN:HB2	1:C:1098:PHE:CZ	2.34	0.62
1:C:1191:ASN:ND2	1:C:1191:ASN:N	2.42	0.62
1:C:1434:ARG:HG2	1:C:1434:ARG:O	1.99	0.62
1:A:1407:ALA:O	1:A:1408:ILE:C	2.42	0.62
1:A:1411:TYR:O	1:A:1415:LYS:CA	2.46	0.62
1:B:1407:ALA:O	1:B:1409:GLN:N	2.32	0.62
1:B:1442:VAL:HG12	1:B:1444:GLN:HB2	1.82	0.62
1:C:1186:LEU:HB3	1:C:1213:ALA:HB2	1.81	0.62
1:C:1190:ILE:CG1	1:C:1216:LEU:HG	2.30	0.62
1:C:1218:TYR:CE2	1:C:1223:ASN:HB3	2.34	0.62
1:C:1351:ALA:HA	1:C:1354:GLN:HG2	1.81	0.62
1:C:1609:LYS:HA	1:C:1612:LYS:HG3	1.80	0.62
1:A:1280:ALA:HB2	1:A:1311:ARG:CZ	2.29	0.62
1:A:1395:ILE:CG1	1:A:1404:TYR:HE2	2.07	0.62
1:B:1395:ILE:CG1	1:B:1404:TYR:HE2	2.07	0.62
1:B:1408:ILE:CG2	1:B:1412:LEU:HD22	2.28	0.62
1:C:1395:ILE:CG1	1:C:1404:TYR:CD2	2.76	0.62
1:C:1442:VAL:HG12	1:C:1444:GLN:HB2	1.82	0.62
1:A:1083:GLN:HE21	1:A:1106:ALA:HB3	1.64	0.62
1:B:1085:LEU:HD22	1:B:1125:ILE:CD1	2.30	0.62
1:B:1450:PRO:HA	1:B:1453:ARG:CG	2.28	0.62
1:C:1326:LYS:O	1:C:1327:PHE:CE1	2.52	0.62
1:C:1407:ALA:O	1:C:1408:ILE:C	2.42	0.62
1:C:1408:ILE:CG2	1:C:1412:LEU:HD22	2.29	0.62
1:A:1594:PHE:O	1:A:1596:MET:HG3	2.00	0.62
1:B:1332:MET:SD	1:B:1357:LEU:HD13	2.40	0.62
1:B:1350:ARG:HH21	1:B:1353:GLU:CB	2.13	0.62
1:B:1414:PHE:CD1	2:D:127:TRP:HB3	2.35	0.62
1:B:1586:ALA:O	1:B:1590:ASN:CG	2.41	0.62
1:B:1594:PHE:O	1:B:1596:MET:CE	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1317:PHE:N	1:C:1317:PHE:CD2	2.63	0.62
1:C:1344:ASN:C	1:C:1345:ILE:HD13	2.25	0.62
2:E:108:GLU:CD	2:E:109:GLN:HG2	2.24	0.62
2:E:124:GLU:HG3	2:E:125:GLN:N	2.13	0.62
1:A:1296:PHE:HE2	2:F:101:SER:OG	1.83	0.62
1:A:1402:GLU:HA	1:A:1405:TYR:CE2	2.35	0.62
1:A:1442:VAL:HG12	1:A:1444:GLN:HB2	1.82	0.62
1:B:1137:TYR:HB2	1:B:1138:MET:HE3	1.81	0.62
1:B:1279:HIS:O	1:B:1280:ALA:HB2	1.97	0.62
1:B:1326:LYS:O	1:B:1327:PHE:CE1	2.53	0.62
1:B:1600:ILE:HG22	1:B:1604:LYS:HE3	1.82	0.62
1:C:1290:TYR:CD2	1:C:1299:LEU:CD1	2.82	0.62
1:C:1344:ASN:O	1:C:1345:ILE:HD13	1.99	0.62
1:C:1407:ALA:C	1:C:1409:GLN:N	2.56	0.62
1:A:1277:VAL:O	1:A:1279:HIS:ND1	2.31	0.62
1:A:1408:ILE:HG21	1:A:1412:LEU:HD22	1.82	0.62
1:A:1434:ARG:HG2	1:A:1434:ARG:O	1.99	0.62
1:A:1496:ALA:HB3	1:A:1515:PHE:CE1	2.34	0.62
1:B:1351:ALA:HA	1:B:1354:GLN:HG2	1.81	0.62
1:B:1417:LEU:O	1:B:1418:LEU:CB	2.36	0.62
1:C:1180:THR:HG22	1:C:1181:ASN:N	2.14	0.62
1:C:1459:ASN:ND2	1:C:1489:ASN:HB2	2.14	0.62
1:C:1471:PHE:HB2	1:C:1480:LEU:HD13	1.80	0.62
1:C:1503:GLU:HG3	1:C:1504:LEU:N	2.14	0.62
1:C:1578:ARG:CZ	1:C:1583:LEU:CD2	2.69	0.62
1:C:1600:ILE:HG22	1:C:1604:LYS:HE3	1.82	0.62
1:C:1174:ILE:HG13	1:C:1196:ALA:CA	2.19	0.62
1:C:1402:GLU:HA	1:C:1405:TYR:CE2	2.35	0.62
1:A:1159:MET:SD	1:A:1163:LYS:NZ	2.73	0.61
1:A:1181:ASN:CG	1:A:1182:ARG:H	1.98	0.61
1:A:1381:HIS:N	1:A:1382:PRO:HD3	2.15	0.61
1:A:1578:ARG:NH1	1:A:1583:LEU:HA	2.15	0.61
1:C:1234:LEU:CD2	1:C:1264:LYS:HZ2	2.00	0.61
1:C:1350:ARG:HH21	1:C:1353:GLU:CB	2.13	0.61
2:D:49:UNK:C	2:D:51:UNK:N	2.61	0.61
1:A:1250:THR:O	1:A:1251:ARG:CB	2.47	0.61
1:A:1516:LYS:HB3	1:A:1523:GLN:HB2	1.80	0.61
1:B:1232:VAL:HG22	1:B:1233:HIS:N	2.06	0.61
1:B:1381:HIS:N	1:B:1382:PRO:HD3	2.14	0.61
1:B:1407:ALA:C	1:B:1409:GLN:N	2.56	0.61
1:B:1509:ARG:HB3	1:B:1510:ILE:HD13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:130:LYS:O	2:F:133:LYS:HB2	2.00	0.61
1:A:1122:LYS:CA	1:A:1125:ILE:HG22	2.25	0.61
1:A:1282:GLU:OE2	1:A:1285:GLU:HB3	2.00	0.61
1:A:1358:TRP:HH2	1:A:1381:HIS:CE1	2.05	0.61
1:A:1584:GLU:O	1:A:1586:ALA:N	2.33	0.61
1:B:1130:LYS:NZ	1:B:1155:LYS:HG2	2.15	0.61
1:B:1250:THR:O	1:B:1251:ARG:CB	2.47	0.61
1:B:1402:GLU:HA	1:B:1405:TYR:CE2	2.35	0.61
1:B:1584:GLU:O	1:B:1586:ALA:N	2.33	0.61
1:B:1617:GLU:HA	1:B:1620:ARG:HB2	1.82	0.61
1:A:1167:SER:HB3	1:A:1168:TYR:CD1	2.35	0.61
1:A:1290:TYR:CG	1:A:1295:TYR:CE2	2.89	0.61
1:A:1350:ARG:HH21	1:A:1353:GLU:CB	2.13	0.61
1:A:1600:ILE:HG22	1:A:1604:LYS:HE3	1.82	0.61
1:B:1164:ALA:HB1	1:B:1169:VAL:HG11	1.83	0.61
1:B:1398:VAL:HG12	1:B:1400:ASN:H	1.66	0.61
1:B:1505:ILE:O	1:B:1509:ARG:N	2.34	0.61
1:B:1593:ASP:O	1:B:1594:PHE:HB2	2.01	0.61
1:C:1134:PRO:O	1:C:1135:SER:C	2.44	0.61
1:C:1332:MET:SD	1:C:1357:LEU:HD13	2.40	0.61
2:E:108:GLU:OE2	2:E:109:GLN:CD	2.42	0.61
2:F:121:LYS:O	2:F:124:GLU:HB3	2.01	0.61
1:A:1092:LEU:O	1:A:1094:ARG:N	2.29	0.61
1:A:1365:TYR:HB2	1:A:1374:ALA:HB2	1.83	0.61
1:C:1104:GLU:CD	1:C:1104:GLU:N	2.57	0.61
2:E:90:ALA:N	2:E:91:GLN:HA	2.13	0.61
1:A:1180:THR:HG22	1:A:1181:ASN:CG	2.25	0.61
1:A:1587:TRP:O	1:A:1589:HIS:N	2.34	0.61
1:C:1264:LYS:NZ	1:C:1268:LEU:HD13	2.13	0.61
1:C:1361:LEU:CD2	1:C:1361:LEU:C	2.72	0.61
1:C:1533:LEU:C	1:C:1535:LYS:H	2.08	0.61
2:D:130:LYS:O	2:D:133:LYS:HB2	1.99	0.61
1:A:1351:ALA:HA	1:A:1354:GLN:HG2	1.81	0.61
1:A:1503:GLU:HG3	1:A:1504:LEU:N	2.14	0.61
1:A:1580:ASP:OD1	1:C:1605:GLU:HG3	1.99	0.61
1:B:1161:ARG:NH1	1:B:1194:ASN:HB2	2.15	0.61
1:B:1274:LEU:CA	1:B:1277:VAL:HG22	2.31	0.61
1:C:1121:VAL:O	1:C:1123:GLU:N	2.34	0.61
1:C:1158:GLN:HG2	1:C:1159:MET:SD	2.40	0.61
1:C:1365:TYR:HB2	1:C:1374:ALA:HB2	1.82	0.61
1:C:1504:LEU:HD21	2:E:149:ASN:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1505:ILE:O	1:C:1509:ARG:N	2.34	0.61
1:C:1584:GLU:O	1:C:1586:ALA:N	2.34	0.61
2:D:102:ILE:O	2:D:106:ARG:N	2.34	0.61
2:D:174:UNK:HA	2:D:176:UNK:CA	2.30	0.61
2:E:90:ALA:H	2:E:91:GLN:HB3	1.64	0.61
1:A:1082:VAL:HG21	1:A:1105:PRO:CG	2.30	0.61
1:A:1126:ASP:CG	1:A:1156:TYR:HH	2.09	0.61
1:A:1332:MET:SD	1:A:1357:LEU:HD13	2.40	0.61
1:B:1297:GLU:O	1:B:1300:ILE:HG13	2.01	0.61
1:B:1408:ILE:HG21	1:B:1412:LEU:HD22	1.83	0.61
1:B:1578:ARG:NH1	1:B:1583:LEU:HA	2.16	0.61
1:C:1247:ALA:CA	1:C:1247:ALA:O	2.39	0.61
1:C:1274:LEU:CA	1:C:1277:VAL:HG22	2.31	0.61
1:C:1414:PHE:CD1	2:E:123:MET:CB	2.84	0.61
2:E:189:UNK:CB	2:E:195:UNK:N	2.63	0.61
1:A:1297:GLU:O	1:A:1300:ILE:HG13	2.01	0.61
1:A:1371:TYR:CD1	1:A:1394:ILE:HG22	2.30	0.61
1:A:1587:TRP:CH2	1:C:1601:GLN:NE2	2.69	0.61
1:B:1137:TYR:CB	1:B:1138:MET:CB	2.58	0.61
1:B:1163:LYS:O	1:B:1164:ALA:HB2	1.99	0.61
1:B:1261:VAL:CG1	1:B:1295:TYR:CE2	2.84	0.61
1:B:1361:LEU:CD2	1:B:1361:LEU:C	2.73	0.61
1:C:1179:LYS:C	1:C:1182:ARG:HH12	2.08	0.61
1:C:1230:THR:O	1:C:1231:LEU:CG	2.48	0.61
2:E:184:UNK:O	2:E:186:UNK:N	2.33	0.61
1:A:1198:ILE:HG23	1:A:1201:VAL:CG2	2.30	0.61
1:A:1257:CYS:C	1:A:1289:TYR:CE1	2.78	0.61
1:A:1361:LEU:CD2	1:A:1361:LEU:C	2.73	0.61
1:B:1150:TRP:O	1:B:1153:LEU:N	2.34	0.61
1:B:1282:GLU:OE2	1:B:1285:GLU:HB3	2.00	0.61
1:B:1414:PHE:O	1:B:1416:PRO:CD	2.23	0.61
1:C:1078:ASN:HB3	1:C:1098:PHE:CE2	2.35	0.61
2:D:173:UNK:O	2:D:176:UNK:CB	2.49	0.61
1:A:1274:LEU:CA	1:A:1277:VAL:HG22	2.31	0.60
1:B:1134:PRO:HD2	1:B:1156:TYR:CE1	2.34	0.60
1:B:1609:LYS:HA	1:B:1612:LYS:HG3	1.82	0.60
1:C:1254:LYS:HD2	1:C:1285:GLU:HG2	1.80	0.60
2:E:143:SER:O	2:E:147:GLU:HB2	2.00	0.60
1:A:1533:LEU:C	1:A:1535:LYS:H	2.08	0.60
1:B:1188:GLU:OE2	1:B:1191:ASN:C	2.43	0.60
1:B:1401:VAL:CG2	1:B:1429:ARG:HE	2.13	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1584:GLU:O	1:B:1587:TRP:N	2.29	0.60
1:B:1596:MET:O	1:B:1597:PRO:O	2.19	0.60
1:C:1144:ALA:HB1	1:C:1153:LEU:HD13	1.82	0.60
1:A:1261:VAL:CG1	1:A:1295:TYR:CD1	2.81	0.60
1:A:1290:TYR:CE2	1:A:1295:TYR:CE2	2.90	0.60
1:A:1326:LYS:O	1:A:1327:PHE:CE1	2.52	0.60
1:A:1563:ARG:NH2	2:F:181:UNK:HA	2.04	0.60
1:B:1173:LEU:O	1:B:1177:LEU:HG	2.02	0.60
1:C:1596:MET:O	1:C:1597:PRO:O	2.19	0.60
1:C:1602:VAL:CG1	2:E:203:UNK:O	2.36	0.60
2:D:121:LYS:O	2:D:124:GLU:HB3	2.00	0.60
1:A:1173:LEU:O	1:A:1177:LEU:HG	2.01	0.60
1:A:1509:ARG:HB3	1:A:1510:ILE:HD13	1.82	0.60
1:A:1596:MET:O	1:A:1597:PRO:O	2.19	0.60
1:A:1609:LYS:HA	1:A:1612:LYS:HG3	1.81	0.60
1:B:1333:ARG:CA	1:B:1360:GLU:HG2	2.32	0.60
1:B:1358:TRP:CZ3	1:B:1377:THR:HG23	2.37	0.60
1:C:1395:ILE:O	1:C:1404:TYR:OH	2.18	0.60
2:E:95:LEU:O	2:E:95:LEU:HD13	2.01	0.60
1:A:1255:GLU:C	1:A:1289:TYR:CE2	2.79	0.60
1:A:1416:PRO:CG	2:F:130:LYS:HD3	2.31	0.60
1:A:1451:TYR:O	1:A:1455:VAL:CG2	2.49	0.60
1:A:1490:PHE:CD1	1:A:1492:ASN:OD1	2.54	0.60
1:B:1279:HIS:O	1:B:1280:ALA:CB	2.45	0.60
1:B:1533:LEU:C	1:B:1535:LYS:H	2.08	0.60
1:B:1572:THR:OG1	1:B:1599:PHE:CD2	2.50	0.60
1:C:1149:ASN:HD22	1:C:1149:ASN:N	1.99	0.60
1:C:1377:THR:HA	1:C:1381:HIS:CD2	2.36	0.60
2:D:118:ALA:HA	2:D:121:LYS:HZ2	1.64	0.60
1:A:1193:PRO:O	1:A:1194:ASN:C	2.44	0.60
1:B:1261:VAL:CG1	1:B:1295:TYR:CZ	2.81	0.60
1:B:1279:HIS:CD2	1:B:1283:LEU:CD1	2.85	0.60
1:B:1326:LYS:O	1:B:1326:LYS:HG3	1.99	0.60
1:C:1092:LEU:O	1:C:1093:ASP:C	2.36	0.60
1:C:1167:SER:HA	1:C:1171:THR:H	1.67	0.60
1:C:1199:GLN:O	1:C:1200:GLN:C	2.44	0.60
1:C:1414:PHE:C	1:C:1416:PRO:HD3	2.21	0.60
1:C:1617:GLU:HA	1:C:1620:ARG:HB2	1.82	0.60
1:A:1333:ARG:HA	1:A:1360:GLU:HG2	1.84	0.60
1:B:1246:LYS:O	1:B:1247:ALA:HB2	2.01	0.60
1:B:1412:LEU:HD12	1:B:1419:LEU:HD22	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1416:PRO:CG	2:D:130:LYS:HD3	2.32	0.60
1:C:1173:LEU:O	1:C:1177:LEU:HG	2.01	0.60
1:C:1358:TRP:CZ3	1:C:1377:THR:HG23	2.37	0.60
1:C:1578:ARG:NH1	1:C:1583:LEU:HA	2.15	0.60
1:A:1087:GLU:C	1:A:1089:ILE:H	2.10	0.60
1:A:1280:ALA:CB	1:A:1311:ARG:HE	2.09	0.60
1:A:1377:THR:HA	1:A:1381:HIS:CD2	2.37	0.60
1:A:1398:VAL:HG12	1:A:1400:ASN:H	1.66	0.60
1:A:1417:LEU:O	1:A:1418:LEU:CB	2.35	0.60
1:A:1472:ILE:HB	1:A:1498:ARG:NH2	2.16	0.60
1:B:1325:SER:O	1:B:1355:ALA:CB	2.50	0.60
1:C:1245:ARG:N	1:C:1275:HIS:CE1	2.65	0.60
1:A:1325:SER:O	1:A:1355:ALA:CB	2.50	0.60
1:A:1333:ARG:CA	1:A:1360:GLU:HG2	2.32	0.60
1:A:1505:ILE:O	1:A:1509:ARG:N	2.33	0.60
1:B:1171:THR:OG1	1:B:1196:ALA:HB1	2.02	0.60
1:B:1350:ARG:NE	1:B:1350:ARG:HA	2.17	0.60
1:C:1250:THR:O	1:C:1251:ARG:CB	2.47	0.60
1:C:1333:ARG:CA	1:C:1360:GLU:HG2	2.32	0.60
1:C:1572:THR:HG21	1:C:1599:PHE:CE2	2.37	0.60
1:C:1593:ASP:O	1:C:1594:PHE:HB2	2.01	0.60
1:C:1620:ARG:NH1	1:C:1620:ARG:HG3	2.16	0.60
1:A:1256:VAL:C	1:A:1289:TYR:OH	2.44	0.60
1:A:1403:LEU:C	1:A:1403:LEU:CD1	2.75	0.60
1:A:1414:PHE:O	2:F:130:LYS:CD	2.50	0.60
1:A:1416:PRO:HG2	2:F:130:LYS:CD	2.31	0.60
1:B:1426:LEU:O	1:B:1427:SER:C	2.45	0.60
1:C:1290:TYR:HD2	1:C:1299:LEU:CD2	2.12	0.60
2:F:195:UNK:N	2:F:197:UNK:CB	2.65	0.60
1:A:1596:MET:HE3	1:A:1597:PRO:HD3	1.82	0.59
1:A:1617:GLU:HA	1:A:1620:ARG:HB2	1.83	0.59
1:B:1451:TYR:O	1:B:1455:VAL:CG2	2.50	0.59
1:C:1082:VAL:CG1	1:C:1083:GLN:H	2.15	0.59
1:C:1403:LEU:C	1:C:1403:LEU:CD1	2.75	0.59
2:D:186:UNK:N	2:D:190:UNK:CB	2.65	0.59
1:A:1111:LEU:CD1	1:A:1125:ILE:HG12	2.29	0.59
1:A:1152:GLU:N	1:A:1152:GLU:OE2	2.35	0.59
1:A:1326:LYS:O	1:A:1326:LYS:HG3	1.99	0.59
1:A:1395:ILE:O	1:A:1404:TYR:OH	2.17	0.59
1:A:1459:ASN:HD21	1:A:1489:ASN:HB2	1.67	0.59
1:A:1513:TYR:CD1	1:A:1516:LYS:HE2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1572:THR:CG2	1:A:1599:PHE:CD2	2.85	0.59
1:B:1180:THR:O	1:B:1181:ASN:CB	2.49	0.59
1:B:1188:GLU:OE2	1:B:1191:ASN:O	2.20	0.59
1:C:1152:GLU:N	1:C:1152:GLU:OE2	2.35	0.59
1:C:1168:TYR:O	1:C:1172:GLU:HG2	2.02	0.59
1:C:1533:LEU:HG	1:C:1535:LYS:H	1.67	0.59
1:A:1358:TRP:CZ3	1:A:1377:THR:HG23	2.37	0.59
1:A:1620:ARG:NH1	1:A:1620:ARG:HG3	2.16	0.59
1:B:1152:GLU:OE2	1:B:1152:GLU:N	2.35	0.59
1:B:1578:ARG:HD3	1:B:1582:VAL:CG1	2.32	0.59
1:B:1617:GLU:HG2	1:B:1621:LYS:NZ	2.18	0.59
2:F:188:UNK:O	2:F:189:UNK:C	2.50	0.59
1:A:1416:PRO:CG	2:F:130:LYS:CD	2.81	0.59
1:A:1505:ILE:O	1:A:1509:ARG:HB2	2.02	0.59
1:C:1372:ASP:O	1:C:1376:ILE:CG1	2.48	0.59
1:C:1398:VAL:HG12	1:C:1400:ASN:H	1.66	0.59
1:C:1459:ASN:HD21	1:C:1489:ASN:HB2	1.67	0.59
2:D:173:UNK:O	2:D:174:UNK:CB	2.45	0.59
1:A:1426:LEU:O	1:A:1427:SER:C	2.45	0.59
1:A:1445:LEU:N	1:A:1446:PRO:CD	2.66	0.59
1:B:1190:ILE:CD1	1:B:1216:LEU:HD11	2.32	0.59
1:B:1365:TYR:HB2	1:B:1374:ALA:HB2	1.83	0.59
1:B:1459:ASN:HD21	1:B:1489:ASN:HB2	1.67	0.59
1:C:1451:TYR:O	1:C:1455:VAL:CG2	2.49	0.59
1:A:1510:ILE:HD13	1:A:1510:ILE:N	2.18	0.59
1:B:1089:ILE:HG12	2:D:19:UNK:O	2.02	0.59
1:B:1136:SER:H	1:B:1141:VAL:HG21	1.66	0.59
1:C:1254:LYS:HD2	1:C:1285:GLU:HG3	1.82	0.59
1:C:1409:GLN:CB	1:C:1413:GLU:HG2	2.24	0.59
1:C:1438:TYR:HD1	2:E:1:UNK:H2	1.49	0.59
2:E:121:LYS:O	2:E:124:GLU:HB3	2.01	0.59
2:F:197:UNK:C	2:F:199:UNK:N	2.64	0.59
1:A:1185:GLU:O	1:A:1185:GLU:HG2	2.03	0.59
1:A:1277:VAL:O	1:A:1279:HIS:N	2.36	0.59
1:B:1592:MET:CG	1:B:1593:ASP:N	2.61	0.59
1:C:1472:ILE:HB	1:C:1498:ARG:NH2	2.15	0.59
2:D:60:UNK:O	2:D:63:UNK:N	2.36	0.59
2:D:99:PRO:O	2:D:102:ILE:HG12	2.02	0.59
2:E:120:SER:HA	2:E:123:MET:HB2	1.85	0.59
1:A:1401:VAL:CG2	1:A:1429:ARG:HE	2.13	0.59
1:A:1608:THR:HG23	1:B:1607:LEU:HD11	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1510:ILE:HD13	1:B:1510:ILE:N	2.18	0.59
1:C:1141:VAL:HG11	1:C:1172:GLU:HG2	1.84	0.59
1:C:1412:LEU:HD12	1:C:1419:LEU:HD22	1.84	0.59
2:D:101:SER:O	2:D:105:TRP:HB2	2.03	0.59
2:E:95:LEU:O	2:E:99:PRO:HG2	2.01	0.59
1:A:1162:LYS:HG2	1:A:1163:LYS:HE2	1.84	0.59
1:A:1319:GLU:HA	1:A:1322:ILE:HD12	1.85	0.59
1:A:1350:ARG:NE	1:A:1350:ARG:HA	2.17	0.59
1:A:1395:ILE:CG1	1:A:1404:TYR:CD2	2.75	0.59
1:A:1438:TYR:O	1:A:1442:VAL:HG21	2.03	0.59
1:A:1530:LYS:HG2	1:A:1531:ASP:OD1	2.03	0.59
1:B:1166:GLU:O	1:B:1167:SER:O	2.21	0.59
1:C:1445:LEU:N	1:C:1446:PRO:CD	2.65	0.59
1:C:1546:ASP:OD2	1:C:1549:LEU:HD23	2.03	0.59
2:D:174:UNK:HA	2:D:176:UNK:C	2.32	0.59
2:E:94:ARG:C	2:E:96:THR:H	2.11	0.59
1:A:1145:ASN:OD1	1:A:1179:LYS:O	2.21	0.59
1:A:1546:ASP:OD2	1:A:1549:LEU:HD23	2.03	0.59
1:B:1280:ALA:O	1:B:1313:HIS:NE2	2.36	0.59
1:B:1333:ARG:HA	1:B:1360:GLU:HG2	1.84	0.59
1:B:1505:ILE:O	1:B:1509:ARG:HB2	2.03	0.59
1:B:1620:ARG:NH1	1:B:1620:ARG:HG3	2.16	0.59
1:C:1225:GLY:C	1:C:1227:LEU:H	2.10	0.59
2:F:120:SER:HA	2:F:123:MET:HB2	1.85	0.59
1:A:1145:ASN:ND2	1:A:1153:LEU:CD2	2.66	0.58
1:A:1168:TYR:O	1:A:1172:GLU:HG2	2.03	0.58
1:A:1358:TRP:CZ3	1:A:1381:HIS:CE1	2.70	0.58
1:B:1445:LEU:N	1:B:1446:PRO:CD	2.65	0.58
1:B:1472:ILE:CB	1:B:1498:ARG:HH21	2.14	0.58
1:C:1401:VAL:CG2	1:C:1429:ARG:HE	2.13	0.58
1:C:1571:PHE:O	1:C:1577:LEU:HD21	2.02	0.58
2:F:195:UNK:C	2:F:197:UNK:CA	2.81	0.58
1:A:1375:ILE:CD1	1:A:1394:ILE:HB	2.33	0.58
1:A:1412:LEU:HD12	1:A:1419:LEU:HD22	1.85	0.58
1:B:1279:HIS:CG	1:B:1280:ALA:H	2.16	0.58
1:B:1319:GLU:HA	1:B:1322:ILE:HD12	1.84	0.58
1:B:1377:THR:HA	1:B:1381:HIS:CD2	2.37	0.58
1:B:1403:LEU:C	1:B:1403:LEU:CD1	2.75	0.58
1:C:1224:PHE:CE1	1:C:1246:LYS:NZ	2.69	0.58
1:C:1401:VAL:HG22	1:C:1429:ARG:CZ	2.33	0.58
1:C:1408:ILE:HG21	1:C:1412:LEU:HD22	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1490:PHE:CD1	1:C:1492:ASN:OD1	2.54	0.58
1:C:1530:LYS:HG2	1:C:1531:ASP:OD1	2.03	0.58
2:D:174:UNK:CB	2:D:177:UNK:CA	2.81	0.58
2:F:182:UNK:C	2:F:184:UNK:N	2.64	0.58
1:A:1206:TYR:CD2	1:A:1226:ARG:HG3	2.37	0.58
1:A:1283:LEU:HD22	1:A:1313:HIS:CE1	2.35	0.58
1:A:1588:ARG:HH11	1:A:1588:ARG:CG	2.16	0.58
1:B:1236:GLU:C	1:B:1238:GLN:H	2.12	0.58
1:B:1530:LYS:HG2	1:B:1531:ASP:OD1	2.03	0.58
1:C:1471:PHE:CB	1:C:1480:LEU:HB2	2.32	0.58
1:A:1145:ASN:HA	1:A:1153:LEU:HD22	1.85	0.58
1:A:1190:ILE:CD1	1:A:1216:LEU:HD11	2.33	0.58
1:A:1198:ILE:HA	1:A:1201:VAL:HG23	1.85	0.58
1:A:1471:PHE:CB	1:A:1480:LEU:HB2	2.32	0.58
1:A:1533:LEU:HG	1:A:1535:LYS:HB2	1.85	0.58
1:A:1578:ARG:HD3	1:A:1582:VAL:CG1	2.33	0.58
1:B:1225:GLY:C	1:B:1227:LEU:H	2.10	0.58
1:C:1277:VAL:C	1:C:1279:HIS:N	2.53	0.58
1:A:1157:LEU:HB3	1:A:1173:LEU:CD1	2.34	0.58
1:A:1225:GLY:C	1:A:1227:LEU:H	2.10	0.58
1:A:1340:TRP:CD1	1:A:1340:TRP:H	2.21	0.58
1:A:1533:LEU:HG	1:A:1535:LYS:H	1.67	0.58
1:A:1617:GLU:HG2	1:A:1621:LYS:NZ	2.18	0.58
1:B:1161:ARG:HG2	1:B:1173:LEU:CD2	2.33	0.58
1:B:1533:LEU:HG	1:B:1535:LYS:HB2	1.84	0.58
1:C:1185:GLU:O	1:C:1185:GLU:HG2	2.03	0.58
1:C:1350:ARG:HA	1:C:1350:ARG:NE	2.17	0.58
1:C:1578:ARG:HD3	1:C:1582:VAL:CG1	2.32	0.58
1:A:1157:LEU:CD1	1:A:1177:LEU:HD23	2.34	0.58
1:A:1163:LYS:O	1:A:1164:ALA:HB2	2.02	0.58
1:C:1130:LYS:HA	1:C:1133:ASP:O	2.02	0.58
1:C:1426:LEU:O	1:C:1427:SER:C	2.45	0.58
1:C:1537:ALA:HA	1:C:1540:TYR:CE2	2.39	0.58
1:C:1584:GLU:O	1:C:1585:THR:C	2.46	0.58
2:D:186:UNK:O	2:D:187:UNK:C	2.51	0.58
1:A:1251:ARG:O	1:A:1252:THR:OG1	2.20	0.58
1:B:1490:PHE:CD1	1:B:1492:ASN:OD1	2.54	0.58
1:C:1148:GLY:O	1:C:1149:ASN:HB3	2.03	0.58
1:C:1208:GLU:OE1	1:C:1208:GLU:HA	2.01	0.58
2:D:120:SER:HA	2:D:123:MET:HB2	1.85	0.58
1:A:1122:LYS:HA	1:A:1125:ILE:CG2	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1404:TYR:OH	1:B:1429:ARG:NH1	2.37	0.58
1:B:1471:PHE:CB	1:B:1480:LEU:HB2	2.32	0.58
1:B:1574:TYR:O	1:B:1575:ASP:C	2.46	0.58
2:D:119:ALA:O	2:D:123:MET:CB	2.52	0.58
2:E:189:UNK:C	2:E:195:UNK:CB	2.82	0.58
1:A:1584:GLU:C	1:A:1586:ALA:N	2.62	0.58
1:B:1092:LEU:C	1:B:1094:ARG:H	2.12	0.58
1:B:1168:TYR:O	1:B:1172:GLU:HG2	2.03	0.58
1:B:1206:TYR:HD1	1:B:1226:ARG:O	1.82	0.58
1:B:1277:VAL:O	1:B:1279:HIS:N	2.37	0.58
1:B:1596:MET:HE3	1:B:1597:PRO:HD3	1.85	0.58
1:C:1505:ILE:O	1:C:1509:ARG:HB2	2.03	0.58
2:E:90:ALA:N	2:E:91:GLN:HB3	2.18	0.58
1:A:1258:PHE:HA	1:A:1289:TYR:CE1	2.39	0.58
1:A:1608:THR:HG23	1:B:1607:LEU:HD13	1.85	0.58
1:B:1161:ARG:NH2	1:B:1192:GLY:C	2.62	0.58
1:B:1185:GLU:HG2	1:B:1185:GLU:O	2.03	0.58
1:B:1375:ILE:CD1	1:B:1394:ILE:HB	2.33	0.58
1:B:1395:ILE:CG1	1:B:1404:TYR:CD2	2.76	0.58
1:C:1198:ILE:CA	1:C:1201:VAL:HG23	2.34	0.58
1:C:1333:ARG:HA	1:C:1360:GLU:HG2	1.85	0.58
1:C:1358:TRP:HA	1:C:1361:LEU:HB3	1.86	0.58
2:F:150:LYS:O	2:F:154:ARG:HG3	2.04	0.58
1:A:1167:SER:C	1:A:1168:TYR:CG	2.81	0.57
1:A:1236:GLU:C	1:A:1238:GLN:H	2.12	0.57
1:A:1240:ALA:C	1:A:1242:ASP:H	2.12	0.57
1:A:1401:VAL:HG22	1:A:1429:ARG:CZ	2.33	0.57
1:A:1537:ALA:HA	1:A:1540:TYR:CE2	2.39	0.57
1:A:1587:TRP:NE1	1:A:1594:PHE:CE2	2.66	0.57
1:B:1150:TRP:CZ3	2:D:5:UNK:CA	2.85	0.57
1:B:1513:TYR:CD1	1:B:1516:LYS:HE2	2.37	0.57
1:B:1528:CYS:O	1:B:1532:SER:HB2	2.04	0.57
1:B:1533:LEU:HG	1:B:1535:LYS:H	1.67	0.57
1:C:1253:TRP:O	1:C:1255:GLU:N	2.37	0.57
1:C:1472:ILE:CB	1:C:1498:ARG:HH21	2.14	0.57
2:E:119:ALA:O	2:E:123:MET:CB	2.51	0.57
2:F:125:GLN:C	2:F:125:GLN:CD	2.72	0.57
1:A:1317:PHE:N	1:A:1317:PHE:CD2	2.64	0.57
1:B:1103:ASN:C	1:B:1105:PRO:HD3	2.28	0.57
1:B:1340:TRP:CD1	1:B:1340:TRP:H	2.22	0.57
1:B:1358:TRP:HA	1:B:1361:LEU:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1247:ALA:C	1:C:1247:ALA:CB	2.74	0.57
1:C:1379:MET:HE1	1:C:1406:ARG:HD3	1.85	0.57
1:C:1395:ILE:CG1	1:C:1404:TYR:HE2	2.07	0.57
1:C:1404:TYR:OH	1:C:1429:ARG:NH1	2.37	0.57
2:D:181:UNK:C	2:D:183:UNK:CA	2.82	0.57
2:E:105:TRP:O	2:E:109:GLN:HG2	2.04	0.57
2:E:191:UNK:O	2:E:192:UNK:CB	2.52	0.57
1:A:1255:GLU:O	1:A:1258:PHE:HB3	2.04	0.57
1:A:1332:MET:CG	1:A:1357:LEU:HD13	2.35	0.57
1:A:1382:PRO:HG3	1:A:1410:PHE:CE1	2.38	0.57
1:A:1404:TYR:OH	1:A:1429:ARG:NH1	2.37	0.57
1:A:1504:LEU:HD13	1:A:1506:GLU:HG3	1.86	0.57
1:B:1379:MET:HE1	1:B:1406:ARG:HD3	1.85	0.57
1:B:1382:PRO:HG3	1:B:1410:PHE:CE1	2.39	0.57
1:B:1391:PHE:CD2	1:B:1411:TYR:OH	2.54	0.57
1:B:1401:VAL:HG22	1:B:1429:ARG:CZ	2.33	0.57
1:B:1537:ALA:HA	1:B:1540:TYR:CE2	2.39	0.57
1:C:1161:ARG:NE	1:C:1170:GLU:HB2	2.19	0.57
1:C:1198:ILE:O	1:C:1201:VAL:N	2.37	0.57
1:C:1382:PRO:CG	2:E:115:GLU:OE2	2.52	0.57
1:C:1617:GLU:HG2	1:C:1621:LYS:NZ	2.18	0.57
2:F:151:ILE:HG13	2:F:152:ASN:N	2.18	0.57
1:A:1192:GLY:N	1:A:1193:PRO:CD	2.68	0.57
1:A:1379:MET:HE1	1:A:1406:ARG:HD3	1.86	0.57
1:B:1253:TRP:O	1:B:1255:GLU:N	2.37	0.57
1:B:1546:ASP:OD2	1:B:1549:LEU:HD23	2.03	0.57
1:B:1610:VAL:O	1:B:1614:ASP:OD1	2.22	0.57
1:C:1504:LEU:HD13	1:C:1506:GLU:HG3	1.85	0.57
2:D:114:GLN:CG	2:D:115:GLU:N	2.26	0.57
1:B:1598:TYR:HD1	1:C:1584:GLU:OE2	1.85	0.57
1:C:1533:LEU:HG	1:C:1535:LYS:HB2	1.85	0.57
1:A:1218:TYR:HD2	1:A:1227:LEU:HD12	1.68	0.57
1:A:1280:ALA:C	1:A:1280:ALA:N	2.59	0.57
1:B:1160:ALA:CB	1:B:1173:LEU:HD13	2.34	0.57
1:C:1319:GLU:HA	1:C:1322:ILE:HD12	1.86	0.57
1:C:1584:GLU:C	1:C:1586:ALA:N	2.62	0.57
2:D:125:GLN:CD	2:D:125:GLN:C	2.72	0.57
2:E:141:ARG:HB2	2:E:141:ARG:NH2	2.20	0.57
1:A:1083:GLN:O	1:A:1086:ILE:HG12	2.05	0.57
1:A:1290:TYR:HD2	1:A:1299:LEU:HD13	1.62	0.57
1:B:1111:LEU:HD21	1:B:1115:GLN:CG	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1218:TYR:HD2	1:B:1227:LEU:HD12	1.68	0.57
1:C:1122:LYS:CA	1:C:1125:ILE:HG22	2.25	0.57
1:C:1513:TYR:CD1	1:C:1516:LYS:HE2	2.37	0.57
2:D:151:ILE:HG13	2:D:152:ASN:N	2.20	0.57
2:F:170:UNK:O	2:F:171:UNK:C	2.53	0.57
1:A:1130:LYS:HD2	1:A:1156:TYR:HA	1.86	0.57
1:A:1584:GLU:O	1:A:1585:THR:C	2.46	0.57
1:B:1206:TYR:CG	1:B:1226:ARG:HG3	2.39	0.57
1:B:1284:GLU:O	1:B:1287:ILE:HG13	2.04	0.57
1:C:1192:GLY:N	1:C:1193:PRO:HD3	2.12	0.57
1:C:1382:PRO:HG3	1:C:1410:PHE:CE1	2.38	0.57
1:A:1595:ALA:C	1:A:1596:MET:HG3	2.30	0.57
1:A:1620:ARG:CG	1:A:1620:ARG:NH1	2.53	0.57
1:B:1257:CYS:HB3	1:B:1289:TYR:OH	2.04	0.57
1:B:1438:TYR:O	1:B:1442:VAL:HG21	2.03	0.57
1:B:1584:GLU:O	1:B:1585:THR:C	2.46	0.57
1:C:1434:ARG:HG3	2:E:4:UNK:C	2.34	0.57
1:C:1434:ARG:CG	2:E:4:UNK:O	2.53	0.57
1:C:1438:TYR:O	1:C:1442:VAL:HG21	2.04	0.57
2:D:141:ARG:HH21	2:D:141:ARG:HB2	1.70	0.57
2:F:141:ARG:HH21	2:F:141:ARG:HB2	1.70	0.57
1:A:1090:GLY:O	1:A:1091:ASN:HB2	2.04	0.57
1:A:1450:PRO:HA	1:A:1453:ARG:CG	2.28	0.57
1:A:1494:SER:HA	1:A:1497:GLN:HG3	1.86	0.57
1:B:1167:SER:CB	1:B:1168:TYR:CD1	2.87	0.57
1:B:1494:SER:HA	1:B:1497:GLN:HG3	1.86	0.57
1:C:1240:ALA:C	1:C:1242:ASP:H	2.12	0.57
1:C:1326:LYS:O	1:C:1326:LYS:HG3	1.99	0.57
2:D:127:TRP:HD1	2:D:128:ARG:N	2.03	0.57
2:D:181:UNK:N	2:D:183:UNK:CB	2.67	0.57
1:A:1253:TRP:O	1:A:1255:GLU:N	2.38	0.56
1:B:1240:ALA:C	1:B:1242:ASP:H	2.12	0.56
1:B:1472:ILE:HB	1:B:1498:ARG:NH2	2.16	0.56
1:C:1414:PHE:CG	2:E:123:MET:HG3	2.40	0.56
1:C:1456:GLN:HG2	1:C:1487:TYR:CE2	2.40	0.56
2:E:90:ALA:N	2:E:91:GLN:CA	2.59	0.56
2:E:127:TRP:HD1	2:E:128:ARG:N	2.03	0.56
2:E:150:LYS:O	2:E:154:ARG:HG3	2.04	0.56
2:E:151:ILE:HG13	2:E:152:ASN:N	2.20	0.56
1:A:1157:LEU:O	1:A:1160:ALA:N	2.38	0.56
1:A:1358:TRP:HA	1:A:1361:LEU:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1602:VAL:HG13	2:F:202:UNK:O	2.05	0.56
1:B:1300:ILE:HD12	1:B:1300:ILE:O	2.05	0.56
1:B:1601:GLN:CG	1:C:1587:TRP:CH2	2.74	0.56
1:C:1111:LEU:HD22	1:C:1111:LEU:C	2.29	0.56
1:C:1340:TRP:H	1:C:1340:TRP:CD1	2.21	0.56
1:A:1111:LEU:HD21	1:A:1115:GLN:CG	2.35	0.56
1:A:1277:VAL:CG2	1:A:1278:VAL:H	2.17	0.56
1:A:1284:GLU:O	1:A:1287:ILE:HG13	2.04	0.56
1:A:1368:TYR:HD1	1:A:1370:GLU:HG2	1.66	0.56
1:A:1387:LYS:HB3	1:A:1390:GLN:HB2	1.87	0.56
1:A:1586:ALA:O	1:A:1590:ASN:ND2	2.38	0.56
1:B:1277:VAL:CG2	1:B:1278:VAL:H	2.17	0.56
1:B:1504:LEU:HD13	1:B:1506:GLU:HG3	1.86	0.56
1:B:1509:ARG:HH22	2:D:163:GLN:CB	2.18	0.56
1:B:1605:GLU:HG3	1:C:1580:ASP:CG	2.30	0.56
1:C:1111:LEU:HD12	1:C:1129:ILE:HG21	1.87	0.56
1:C:1129:ILE:C	1:C:1129:ILE:HD12	2.31	0.56
1:C:1207:ASP:CG	1:C:1207:ASP:O	2.48	0.56
1:C:1277:VAL:CG2	1:C:1278:VAL:H	2.17	0.56
1:C:1296:PHE:HD2	1:C:1297:GLU:HG2	1.67	0.56
1:C:1465:GLU:O	1:C:1465:GLU:OE2	2.23	0.56
2:E:184:UNK:C	2:E:186:UNK:N	2.68	0.56
2:F:141:ARG:HB2	2:F:141:ARG:NH2	2.20	0.56
1:A:1159:MET:SD	1:A:1162:LYS:HD2	2.46	0.56
1:A:1183:LEU:HG	1:A:1184:ALA:H	1.71	0.56
1:B:1317:PHE:N	1:B:1317:PHE:CD2	2.64	0.56
1:B:1592:MET:HG2	1:B:1593:ASP:N	2.16	0.56
1:B:1623:GLU:O	1:B:1626:ALA:HB3	2.05	0.56
1:C:1107:VAL:O	1:C:1108:TRP:HE3	1.86	0.56
1:C:1258:PHE:CE1	1:C:1293:ARG:NE	2.74	0.56
1:C:1510:ILE:O	1:C:1514:LEU:N	2.34	0.56
1:C:1610:VAL:O	1:C:1614:ASP:OD1	2.23	0.56
2:E:125:GLN:C	2:E:125:GLN:CD	2.72	0.56
1:A:1105:PRO:HG2	1:A:1108:TRP:CZ2	2.41	0.56
1:A:1290:TYR:O	1:A:1295:TYR:CB	2.54	0.56
1:A:1295:TYR:C	1:A:1296:PHE:CG	2.81	0.56
1:A:1414:PHE:O	2:F:130:LYS:HD2	2.05	0.56
1:B:1167:SER:HB3	1:B:1168:TYR:HD1	1.68	0.56
1:B:1404:TYR:O	1:B:1407:ALA:CB	2.52	0.56
1:B:1476:ASP:OD1	1:B:1479:ALA:HB3	2.05	0.56
1:C:1133:ASP:HB2	1:C:1134:PRO:HD2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1325:SER:O	1:C:1355:ALA:CB	2.50	0.56
1:C:1387:LYS:O	1:C:1390:GLN:N	2.31	0.56
1:C:1391:PHE:CD2	1:C:1411:TYR:OH	2.54	0.56
1:C:1476:ASP:OD1	1:C:1479:ALA:HB3	2.06	0.56
1:A:1358:TRP:CD2	1:A:1381:HIS:CG	2.94	0.56
1:A:1465:GLU:O	1:A:1465:GLU:OE2	2.23	0.56
1:B:1332:MET:CG	1:B:1357:LEU:HD13	2.34	0.56
1:C:1161:ARG:HH21	1:C:1170:GLU:HG3	1.71	0.56
1:C:1174:ILE:HD13	1:C:1174:ILE:N	2.20	0.56
1:C:1494:SER:HA	1:C:1497:GLN:HG3	1.86	0.56
2:E:105:TRP:O	2:E:108:GLU:CG	2.51	0.56
1:A:1414:PHE:C	1:A:1416:PRO:HD3	2.22	0.56
1:A:1524:SER:O	1:A:1527:LEU:HD13	2.06	0.56
1:B:1144:ALA:HA	1:B:1149:ASN:HB2	1.87	0.56
1:B:1198:ILE:HG12	1:B:1201:VAL:HG21	1.87	0.56
1:B:1602:VAL:HG13	2:D:205:UNK:O	2.06	0.56
1:C:1108:TRP:NE1	1:C:1131:ALA:HB2	2.20	0.56
1:C:1161:ARG:CZ	1:C:1195:ASN:HB3	2.36	0.56
1:A:1170:GLU:C	1:A:1172:GLU:N	2.63	0.56
1:B:1130:LYS:HZ3	1:B:1155:LYS:HD3	1.71	0.56
1:B:1258:PHE:CD1	1:B:1293:ARG:HD2	2.41	0.56
1:B:1332:MET:HG3	1:B:1357:LEU:HD13	1.87	0.56
1:B:1395:ILE:O	1:B:1404:TYR:OH	2.17	0.56
1:B:1509:ARG:CZ	2:D:166:ALA:HB3	2.36	0.56
1:C:1279:HIS:NE2	1:C:1283:LEU:HD12	2.21	0.56
1:C:1332:MET:CG	1:C:1357:LEU:HD13	2.35	0.56
2:D:134:ASP:OD1	2:D:135:LEU:N	2.39	0.56
2:E:127:TRP:O	2:E:130:LYS:HB2	2.06	0.56
2:E:184:UNK:C	2:E:186:UNK:H	2.19	0.56
2:F:184:UNK:O	2:F:186:UNK:N	2.39	0.56
1:A:1282:GLU:C	1:A:1283:LEU:HD13	2.31	0.56
1:A:1456:GLN:HG2	1:A:1487:TYR:CE2	2.41	0.56
1:A:1472:ILE:CB	1:A:1498:ARG:HH21	2.14	0.56
1:A:1476:ASP:OD1	1:A:1479:ALA:HB3	2.06	0.56
1:A:1548:GLU:H	1:A:1548:GLU:CD	2.14	0.56
1:B:1108:TRP:NE1	1:B:1131:ALA:CB	2.67	0.56
1:B:1387:LYS:HD2	1:B:1390:GLN:NE2	2.21	0.56
1:B:1595:ALA:C	1:B:1596:MET:HG3	2.30	0.56
1:C:1253:TRP:O	1:C:1289:TYR:HE2	1.85	0.56
1:C:1295:TYR:O	1:C:1296:PHE:CD2	2.59	0.56
2:D:150:LYS:O	2:D:154:ARG:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1332:MET:HG3	1:A:1357:LEU:HD13	1.87	0.56
1:A:1529:LYS:O	1:A:1532:SER:HB3	2.06	0.56
1:B:1160:ALA:HB3	1:B:1173:LEU:HD22	1.88	0.56
1:C:1167:SER:HA	1:C:1171:THR:OG1	2.06	0.56
1:A:1092:LEU:C	1:A:1094:ARG:H	2.12	0.55
1:A:1206:TYR:CE1	1:A:1230:THR:HB	2.42	0.55
1:A:1300:ILE:HD12	1:A:1300:ILE:O	2.05	0.55
1:A:1610:VAL:O	1:A:1614:ASP:OD1	2.23	0.55
1:B:1333:ARG:CB	1:B:1360:GLU:HG3	2.36	0.55
1:C:1111:LEU:HD21	1:C:1115:GLN:CG	2.35	0.55
1:C:1387:LYS:HD2	1:C:1390:GLN:NE2	2.21	0.55
1:C:1414:PHE:CD1	2:E:123:MET:HG3	2.40	0.55
1:C:1499:LEU:CB	1:C:1511:ALA:HB2	2.36	0.55
2:F:98:GLU:C	2:F:102:ILE:HG23	2.31	0.55
1:A:1255:GLU:CA	1:A:1289:TYR:CE2	2.88	0.55
1:B:1387:LYS:HB3	1:B:1390:GLN:HB2	1.88	0.55
1:B:1572:THR:CB	1:B:1599:PHE:CD2	2.89	0.55
1:C:1194:ASN:HD22	1:C:1195:ASN:N	2.04	0.55
1:C:1254:LYS:HA	1:C:1289:TYR:CE2	2.40	0.55
1:C:1255:GLU:O	1:C:1258:PHE:HB3	2.06	0.55
2:E:184:UNK:O	2:E:185:UNK:C	2.53	0.55
1:A:1116:LEU:HD21	1:A:1122:LYS:CB	2.36	0.55
1:A:1451:TYR:O	1:A:1455:VAL:HG21	2.07	0.55
1:A:1510:ILE:O	1:A:1514:LEU:N	2.34	0.55
1:B:1244:ALA:O	1:B:1246:LYS:N	2.39	0.55
1:C:1236:GLU:C	1:C:1238:GLN:H	2.12	0.55
1:C:1332:MET:HE1	1:C:1360:GLU:CD	2.32	0.55
2:D:141:ARG:NH2	2:D:141:ARG:HB2	2.20	0.55
2:F:102:ILE:HG13	2:F:103:ARG:N	2.22	0.55
2:F:127:TRP:HD1	2:F:128:ARG:N	2.03	0.55
2:F:162:GLN:O	2:F:163:GLN:C	2.48	0.55
1:A:1290:TYR:O	1:A:1295:TYR:HB2	2.06	0.55
1:A:1332:MET:HE1	1:A:1360:GLU:CD	2.31	0.55
1:B:1451:TYR:O	1:B:1455:VAL:HG21	2.07	0.55
1:B:1510:ILE:O	1:B:1514:LEU:N	2.34	0.55
1:B:1524:SER:O	1:B:1527:LEU:HD13	2.06	0.55
1:B:1548:GLU:H	1:B:1548:GLU:CD	2.14	0.55
1:C:1333:ARG:CB	1:C:1360:GLU:HG3	2.36	0.55
2:E:98:GLU:HA	2:E:101:SER:CB	2.31	0.55
1:B:1206:TYR:CE2	1:B:1226:ARG:HG3	2.40	0.55
1:B:1255:GLU:O	1:B:1258:PHE:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1395:ILE:CD1	1:B:1403:LEU:HD12	2.37	0.55
1:B:1456:GLN:HG2	1:B:1487:TYR:CE2	2.41	0.55
1:C:1375:ILE:CD1	1:C:1394:ILE:HB	2.32	0.55
2:E:141:ARG:HB2	2:E:141:ARG:HH21	1.70	0.55
2:F:151:ILE:CA	2:F:154:ARG:HD3	2.36	0.55
1:A:1197:HIS:C	1:A:1199:GLN:N	2.64	0.55
1:A:1584:GLU:O	1:A:1587:TRP:N	2.29	0.55
1:B:1137:TYR:CB	1:B:1138:MET:HE3	2.36	0.55
1:C:1179:LYS:O	1:C:1182:ARG:NH2	2.40	0.55
1:C:1434:ARG:HG3	2:E:4:UNK:CB	2.36	0.55
2:D:186:UNK:O	2:D:188:UNK:N	2.40	0.55
2:E:134:ASP:OD1	2:E:135:LEU:N	2.39	0.55
2:F:127:TRP:O	2:F:130:LYS:HB2	2.07	0.55
2:F:134:ASP:OD1	2:F:135:LEU:N	2.39	0.55
1:A:1414:PHE:HD1	2:F:127:TRP:HB2	1.70	0.55
1:B:1358:TRP:CD2	1:B:1381:HIS:CG	2.94	0.55
1:B:1481:ARG:HH11	1:B:1510:ILE:HG13	1.72	0.55
1:C:1108:TRP:HE1	1:C:1131:ALA:HB2	1.71	0.55
1:C:1130:LYS:HG3	1:C:1133:ASP:HA	1.89	0.55
1:C:1451:TYR:O	1:C:1455:VAL:HG21	2.07	0.55
2:F:119:ALA:O	2:F:123:MET:CB	2.55	0.55
1:A:1409:GLN:HA	1:A:1413:GLU:CB	2.35	0.55
1:A:1481:ARG:HH12	1:A:1510:ILE:HD12	1.72	0.55
1:B:1149:ASN:O	1:B:1153:LEU:HB3	2.03	0.55
1:B:1282:GLU:C	1:B:1283:LEU:HD13	2.31	0.55
1:B:1587:TRP:O	1:B:1589:HIS:CA	2.54	0.55
1:C:1141:VAL:CG1	1:C:1172:GLU:HG2	2.36	0.55
1:C:1358:TRP:CD2	1:C:1381:HIS:CG	2.94	0.55
1:C:1404:TYR:O	1:C:1407:ALA:CB	2.53	0.55
1:C:1412:LEU:CD2	1:C:1439:PHE:CE1	2.89	0.55
1:C:1533:LEU:C	1:C:1535:LYS:N	2.64	0.55
2:E:94:ARG:O	2:E:96:THR:N	2.40	0.55
1:A:1082:VAL:CG1	1:A:1083:GLN:N	2.69	0.55
1:A:1154:VAL:HG13	1:A:1180:THR:CG2	2.37	0.55
1:B:1448:VAL:O	1:B:1452:LEU:HG	2.07	0.55
1:B:1465:GLU:O	1:B:1465:GLU:OE2	2.23	0.55
1:C:1175:PHE:HE2	1:C:1204:ARG:NH2	2.05	0.55
1:C:1480:LEU:O	1:C:1484:ILE:HG12	2.06	0.55
2:D:127:TRP:O	2:D:130:LYS:HB2	2.06	0.55
2:E:170:UNK:O	2:E:171:UNK:C	2.54	0.55
1:A:1246:LYS:O	1:A:1247:ALA:CB	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1277:VAL:CG2	1:B:1278:VAL:N	2.70	0.55
1:B:1387:LYS:O	1:B:1390:GLN:N	2.31	0.55
1:A:1130:LYS:HZ3	1:A:1155:LYS:HB3	1.71	0.54
1:A:1333:ARG:CB	1:A:1360:GLU:HG3	2.36	0.54
1:B:1190:ILE:HG23	1:B:1191:ASN:ND2	2.22	0.54
1:B:1206:TYR:CE1	1:B:1226:ARG:HA	2.42	0.54
1:C:1395:ILE:CD1	1:C:1403:LEU:HD12	2.36	0.54
1:C:1514:LEU:C	1:C:1514:LEU:CD2	2.80	0.54
1:C:1528:CYS:O	1:C:1532:SER:HB2	2.07	0.54
1:A:1227:LEU:HD23	1:A:1227:LEU:C	2.33	0.54
1:A:1253:TRP:O	1:A:1289:TYR:CZ	2.60	0.54
1:A:1319:GLU:HA	1:A:1322:ILE:CD1	2.38	0.54
1:A:1387:LYS:HD2	1:A:1390:GLN:NE2	2.21	0.54
1:A:1448:VAL:O	1:A:1452:LEU:HG	2.07	0.54
1:B:1083:GLN:HE21	1:B:1106:ALA:C	2.14	0.54
1:B:1332:MET:HE1	1:B:1360:GLU:CD	2.32	0.54
1:B:1414:PHE:C	1:B:1416:PRO:HD3	2.21	0.54
1:C:1111:LEU:HD21	1:C:1115:GLN:HG3	1.89	0.54
1:C:1122:LYS:CG	1:C:1123:GLU:H	2.19	0.54
1:C:1170:GLU:C	1:C:1172:GLU:N	2.63	0.54
1:C:1524:SER:O	1:C:1527:LEU:HD13	2.06	0.54
1:C:1554:LEU:HA	1:C:1557:PHE:CD2	2.41	0.54
1:A:1162:LYS:O	1:A:1163:LYS:HB2	2.06	0.54
1:A:1449:LYS:HB3	1:A:1450:PRO:CD	2.37	0.54
1:A:1467:LEU:HG	1:A:1471:PHE:CE2	2.43	0.54
1:A:1601:GLN:HA	1:A:1604:LYS:HD2	1.89	0.54
1:B:1596:MET:N	1:B:1597:PRO:CD	2.69	0.54
1:C:1154:VAL:CG1	1:C:1177:LEU:HD23	2.38	0.54
1:C:1192:GLY:N	1:C:1193:PRO:CD	2.66	0.54
1:C:1389:GLY:O	1:C:1392:LYS:N	2.40	0.54
1:C:1448:VAL:O	1:C:1452:LEU:HG	2.07	0.54
1:A:1387:LYS:O	1:A:1390:GLN:N	2.31	0.54
1:A:1493:ILE:HG22	1:A:1494:SER:N	2.23	0.54
1:A:1514:LEU:C	1:A:1514:LEU:CD2	2.81	0.54
1:B:1102:CYS:O	1:B:1103:ASN:HB2	2.06	0.54
1:B:1130:LYS:NZ	1:B:1155:LYS:CG	2.70	0.54
1:C:1585:THR:O	1:C:1589:HIS:HB2	2.08	0.54
2:D:51:UNK:C	2:D:53:UNK:N	2.69	0.54
1:A:1111:LEU:HD21	1:A:1115:GLN:HG3	1.89	0.54
1:A:1150:TRP:O	1:A:1153:LEU:HB3	2.07	0.54
1:A:1359:ALA:HB3	1:A:1360:GLU:OE1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1190:ILE:HD13	1:B:1216:LEU:CD1	2.37	0.54
1:B:1404:TYR:O	1:B:1407:ALA:N	2.41	0.54
1:B:1414:PHE:CE1	2:D:127:TRP:CE3	2.96	0.54
1:B:1469:ASN:HD22	1:B:1498:ARG:NH2	2.05	0.54
1:B:1535:LYS:HE2	1:B:1535:LYS:CA	2.36	0.54
1:B:1551:GLU:OE1	1:B:1582:VAL:HG22	2.08	0.54
1:C:1227:LEU:HD23	1:C:1228:ALA:N	2.23	0.54
1:C:1277:VAL:CG2	1:C:1278:VAL:N	2.70	0.54
1:C:1529:LYS:O	1:C:1532:SER:HB3	2.06	0.54
1:A:1159:MET:O	1:A:1162:LYS:HB3	2.08	0.54
1:A:1282:GLU:O	1:A:1283:LEU:HD13	2.07	0.54
1:A:1317:PHE:HD1	1:A:1339:PHE:HB3	1.71	0.54
1:A:1395:ILE:CD1	1:A:1403:LEU:HD12	2.37	0.54
1:B:1234:LEU:HG	1:B:1235:GLY:N	2.20	0.54
1:B:1376:ILE:HA	1:B:1379:MET:SD	2.48	0.54
1:B:1412:LEU:CD2	1:B:1439:PHE:CE1	2.90	0.54
1:B:1529:LYS:O	1:B:1532:SER:HB3	2.07	0.54
1:C:1188:GLU:C	1:C:1190:ILE:N	2.66	0.54
1:C:1414:PHE:CD1	2:E:123:MET:CG	2.91	0.54
1:C:1469:ASN:HD22	1:C:1498:ARG:NH2	2.05	0.54
1:A:1122:LYS:CG	1:A:1123:GLU:H	2.18	0.54
1:A:1404:TYR:O	1:A:1407:ALA:N	2.40	0.54
1:B:1086:ILE:HG22	1:B:1087:GLU:N	2.21	0.54
1:B:1584:GLU:C	1:B:1586:ALA:N	2.62	0.54
1:B:1605:GLU:OE2	1:C:1579:PRO:HB3	2.07	0.54
2:D:27:UNK:C	2:D:29:UNK:H	2.21	0.54
1:A:1290:TYR:CG	1:A:1295:TYR:CD2	2.96	0.54
1:A:1376:ILE:HA	1:A:1379:MET:SD	2.48	0.54
1:A:1469:ASN:HD22	1:A:1498:ARG:NH2	2.05	0.54
1:B:1274:LEU:CA	1:B:1277:VAL:CG2	2.86	0.54
1:B:1467:LEU:HG	1:B:1471:PHE:CE2	2.43	0.54
1:C:1332:MET:HG3	1:C:1357:LEU:HD13	1.87	0.54
1:C:1596:MET:N	1:C:1597:PRO:CD	2.68	0.54
2:E:93:ASP:HB3	2:E:97:GLN:CG	2.38	0.54
1:A:1274:LEU:O	1:A:1277:VAL:HG22	2.08	0.54
1:A:1408:ILE:HG22	1:A:1412:LEU:CD2	2.28	0.54
1:B:1167:SER:C	1:B:1168:TYR:CG	2.85	0.54
1:B:1227:LEU:HD23	1:B:1227:LEU:C	2.33	0.54
1:C:1111:LEU:CD2	1:C:1115:GLN:HG2	2.38	0.54
1:C:1227:LEU:HD23	1:C:1227:LEU:C	2.32	0.54
1:C:1359:ALA:HB3	1:C:1360:GLU:OE1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1368:TYR:HD1	1:C:1370:GLU:HG2	1.66	0.54
1:C:1595:ALA:C	1:C:1596:MET:HG3	2.32	0.54
1:A:1111:LEU:CD2	1:A:1115:GLN:HG2	2.38	0.54
1:A:1227:LEU:HD23	1:A:1228:ALA:N	2.23	0.54
1:A:1377:THR:CA	1:A:1381:HIS:HD2	2.21	0.54
1:B:1227:LEU:HD23	1:B:1228:ALA:N	2.22	0.54
1:C:1535:LYS:HE2	1:C:1535:LYS:CA	2.36	0.54
2:D:49:UNK:O	2:D:51:UNK:N	2.40	0.54
2:D:151:ILE:CA	2:D:154:ARG:HD3	2.36	0.54
2:F:127:TRP:HD1	2:F:128:ARG:HG3	1.72	0.54
1:A:1085:LEU:HB3	1:A:1095:ALA:HB1	1.90	0.53
1:A:1283:LEU:CD2	1:A:1313:HIS:NE2	2.58	0.53
1:A:1572:THR:OG1	1:A:1599:PHE:CD2	2.56	0.53
1:A:1598:TYR:HD2	2:F:198:UNK:CB	2.20	0.53
1:B:1144:ALA:CB	1:B:1149:ASN:CB	2.84	0.53
1:B:1170:GLU:C	1:B:1172:GLU:N	2.63	0.53
1:B:1372:ASP:O	1:B:1376:ILE:CG1	2.49	0.53
1:B:1493:ILE:HG22	1:B:1494:SER:N	2.22	0.53
1:B:1535:LYS:HZ3	1:B:1563:ARG:HH12	1.55	0.53
1:C:1317:PHE:HD1	1:C:1339:PHE:HB3	1.71	0.53
1:C:1586:ALA:CB	1:C:1594:PHE:CZ	2.90	0.53
2:E:93:ASP:HB3	2:E:97:GLN:HG3	1.90	0.53
2:E:129:GLU:HB2	2:E:132:LYS:NZ	2.24	0.53
1:A:1082:VAL:CG1	1:A:1083:GLN:H	2.15	0.53
1:A:1167:SER:O	1:A:1169:VAL:N	2.37	0.53
1:A:1256:VAL:C	1:A:1289:TYR:HH	2.16	0.53
1:A:1273:GLY:C	1:A:1275:HIS:N	2.65	0.53
1:A:1274:LEU:CA	1:A:1277:VAL:CG2	2.86	0.53
1:A:1533:LEU:C	1:A:1535:LYS:N	2.65	0.53
1:B:1111:LEU:CD2	1:B:1115:GLN:HG2	2.38	0.53
1:B:1190:ILE:HD13	1:B:1216:LEU:CG	2.38	0.53
1:B:1319:GLU:HA	1:B:1322:ILE:CD1	2.37	0.53
1:B:1409:GLN:CB	1:B:1413:GLU:HG2	2.25	0.53
1:C:1084:VAL:O	1:C:1086:ILE:O	2.25	0.53
1:C:1144:ALA:O	1:C:1145:ASN:HB2	2.08	0.53
1:C:1274:LEU:O	1:C:1277:VAL:HG22	2.08	0.53
1:C:1376:ILE:HA	1:C:1379:MET:SD	2.48	0.53
1:C:1449:LYS:HB3	1:C:1450:PRO:CD	2.38	0.53
2:E:89:ILE:N	2:E:90:ALA:CA	2.70	0.53
1:A:1469:ASN:HD22	1:A:1498:ARG:HH22	1.55	0.53
1:A:1535:LYS:HE2	1:A:1535:LYS:CA	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1111:LEU:HD21	1:B:1115:GLN:HG3	1.89	0.53
1:B:1449:LYS:HB3	1:B:1450:PRO:CD	2.38	0.53
1:C:1182:ARG:C	1:C:1183:LEU:HD23	2.33	0.53
1:C:1387:LYS:HB3	1:C:1390:GLN:HB2	1.87	0.53
1:C:1467:LEU:HG	1:C:1471:PHE:CE2	2.43	0.53
1:C:1493:ILE:HG22	1:C:1494:SER:N	2.23	0.53
2:E:178:UNK:C	2:E:180:UNK:N	2.70	0.53
2:F:166:ALA:O	2:F:167:ASP:CB	2.55	0.53
1:A:1144:ALA:O	1:A:1145:ASN:HB2	2.08	0.53
1:A:1211:TYR:HB2	1:A:1231:LEU:CD1	2.38	0.53
1:A:1360:GLU:O	1:A:1364:LEU:HG	2.09	0.53
1:A:1528:CYS:O	1:A:1532:SER:HB2	2.08	0.53
1:A:1587:TRP:C	1:A:1589:HIS:N	2.66	0.53
1:B:1148:GLY:HA2	1:B:1150:TRP:CZ3	2.44	0.53
1:B:1282:GLU:O	1:B:1283:LEU:HD13	2.08	0.53
1:B:1335:HIS:C	1:B:1335:HIS:ND1	2.66	0.53
1:B:1449:LYS:HB3	1:B:1450:PRO:HD3	1.90	0.53
1:B:1572:THR:CG2	1:B:1599:PHE:HD2	2.21	0.53
1:C:1434:ARG:CD	2:E:4:UNK:O	2.57	0.53
1:A:1368:TYR:O	1:A:1369:GLU:HB2	2.09	0.53
1:A:1412:LEU:CD2	1:A:1439:PHE:CE1	2.90	0.53
1:A:1578:ARG:NH1	1:A:1583:LEU:HD23	2.21	0.53
1:B:1317:PHE:HD1	1:B:1339:PHE:HB3	1.72	0.53
1:B:1578:ARG:NH1	1:B:1583:LEU:HD23	2.21	0.53
1:C:1608:THR:O	1:C:1612:LYS:HG3	2.09	0.53
1:A:1084:VAL:O	1:A:1089:ILE:HG22	2.09	0.53
1:A:1091:ASN:HD21	1:A:1092:LEU:HG	1.72	0.53
1:B:1251:ARG:O	1:B:1252:THR:OG1	2.20	0.53
1:B:1330:GLN:CG	1:B:1331:LYS:H	2.22	0.53
1:B:1596:MET:SD	1:B:1597:PRO:CD	2.92	0.53
1:C:1148:GLY:O	1:C:1149:ASN:CB	2.56	0.53
1:C:1247:ALA:O	1:C:1247:ALA:CB	2.56	0.53
1:C:1335:HIS:C	1:C:1335:HIS:ND1	2.66	0.53
1:A:1416:PRO:CG	2:F:130:LYS:CG	2.70	0.53
1:A:1481:ARG:HH11	1:A:1510:ILE:HG13	1.72	0.53
1:B:1122:LYS:CG	1:B:1123:GLU:H	2.19	0.53
1:B:1279:HIS:CG	1:B:1280:ALA:N	2.75	0.53
1:B:1533:LEU:C	1:B:1535:LYS:N	2.65	0.53
1:B:1601:GLN:HA	1:B:1604:LYS:HD2	1.90	0.53
1:C:1150:TRP:O	1:C:1153:LEU:HB3	2.07	0.53
1:C:1235:GLY:O	1:C:1238:GLN:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1254:LYS:NZ	1:C:1285:GLU:HG2	2.24	0.53
1:C:1404:TYR:O	1:C:1407:ALA:N	2.40	0.53
1:A:1414:PHE:O	1:A:1416:PRO:CD	2.23	0.53
1:A:1578:ARG:HH11	1:A:1582:VAL:HG12	1.74	0.53
1:B:1167:SER:C	1:B:1169:VAL:N	2.62	0.53
1:B:1409:GLN:HA	1:B:1413:GLU:CB	2.35	0.53
1:B:1469:ASN:HD22	1:B:1498:ARG:HH22	1.56	0.53
1:B:1481:ARG:HH12	1:B:1510:ILE:HD12	1.72	0.53
1:B:1514:LEU:C	1:B:1514:LEU:CD2	2.81	0.53
1:B:1624:GLU:C	1:B:1626:ALA:N	2.64	0.53
1:C:1572:THR:HG21	1:C:1599:PHE:HD2	1.69	0.53
1:A:1421:ASP:HA	1:A:1424:MET:SD	2.49	0.53
1:A:1449:LYS:HB3	1:A:1450:PRO:HD3	1.90	0.53
1:A:1572:THR:CB	1:A:1599:PHE:CD2	2.92	0.53
1:B:1150:TRP:HE3	2:D:5:UNK:HA	1.64	0.53
1:B:1359:ALA:HB3	1:B:1360:GLU:OE1	2.08	0.53
1:B:1360:GLU:O	1:B:1364:LEU:HG	2.09	0.53
1:C:1230:THR:O	1:C:1231:LEU:HB3	2.08	0.53
1:C:1535:LYS:HZ3	1:C:1563:ARG:HH12	1.55	0.53
2:E:90:ALA:N	2:E:91:GLN:CB	2.67	0.53
1:A:1596:MET:N	1:A:1597:PRO:CD	2.68	0.53
1:B:1144:ALA:O	1:B:1145:ASN:HB2	2.07	0.53
1:B:1284:GLU:OE2	1:B:1284:GLU:C	2.52	0.53
1:B:1588:ARG:CZ	2:F:192:UNK:CA	2.59	0.53
1:C:1145:ASN:HD22	1:C:1150:TRP:NE1	2.07	0.53
1:C:1471:PHE:CA	1:C:1474:GLU:HG2	2.38	0.53
1:A:1234:LEU:C	1:A:1236:GLU:H	2.10	0.52
1:A:1592:MET:HE2	1:A:1593:ASP:N	2.24	0.52
1:A:1601:GLN:CG	1:A:1604:LYS:HD2	2.39	0.52
1:A:1611:ASP:CG	1:B:1607:LEU:HD22	2.34	0.52
1:B:1234:LEU:C	1:B:1236:GLU:H	2.10	0.52
1:B:1414:PHE:O	2:D:130:LYS:HD2	2.03	0.52
1:C:1360:GLU:O	1:C:1364:LEU:HG	2.09	0.52
1:C:1620:ARG:CG	1:C:1620:ARG:NH1	2.53	0.52
2:F:180:UNK:O	2:F:181:UNK:C	2.57	0.52
1:A:1085:LEU:HD12	1:A:1085:LEU:O	2.08	0.52
1:A:1103:ASN:O	1:A:1105:PRO:CD	2.56	0.52
1:A:1137:TYR:CB	1:A:1138:MET:CB	2.64	0.52
1:A:1170:GLU:HG2	1:A:1171:THR:N	2.25	0.52
1:A:1471:PHE:CA	1:A:1474:GLU:HG2	2.38	0.52
1:A:1608:THR:O	1:A:1612:LYS:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1085:LEU:CD1	1:B:1125:ILE:HD11	2.35	0.52
1:B:1174:ILE:HG21	1:B:1201:VAL:CG2	2.30	0.52
1:B:1354:GLN:HG3	1:B:1354:GLN:O	2.09	0.52
1:B:1419:LEU:HD23	1:B:1447:LEU:CD1	2.40	0.52
1:B:1554:LEU:HA	1:B:1557:PHE:CD2	2.40	0.52
1:C:1170:GLU:HG2	1:C:1171:THR:N	2.24	0.52
1:C:1301:THR:CA	1:C:1304:GLU:HG3	2.32	0.52
2:D:98:GLU:CB	2:D:99:PRO:HD3	2.26	0.52
2:F:155:ILE:O	2:F:156:ALA:HB3	2.09	0.52
1:A:1136:SER:OG	1:A:1141:VAL:HG11	2.09	0.52
1:A:1524:SER:C	1:A:1526:GLU:H	2.17	0.52
1:A:1570:LEU:HD23	1:A:1570:LEU:O	2.08	0.52
1:A:1597:PRO:HB3	1:A:1601:GLN:NE2	2.24	0.52
1:B:1274:LEU:O	1:B:1277:VAL:HG22	2.08	0.52
1:B:1420:ASN:OD1	1:B:1447:LEU:O	2.27	0.52
1:B:1445:LEU:HD23	1:B:1448:VAL:HG22	1.91	0.52
1:B:1524:SER:C	1:B:1526:GLU:H	2.17	0.52
1:B:1608:THR:O	1:B:1612:LYS:HG3	2.09	0.52
1:C:1127:SER:CA	1:C:1156:TYR:OH	2.54	0.52
1:C:1142:GLN:C	1:C:1142:GLN:CD	2.78	0.52
1:C:1345:ILE:H	1:C:1346:PRO:CD	2.18	0.52
1:C:1354:GLN:O	1:C:1354:GLN:HG3	2.09	0.52
1:C:1409:GLN:HA	1:C:1413:GLU:CB	2.35	0.52
2:D:112:ARG:O	2:D:112:ARG:NH1	2.42	0.52
2:D:155:ILE:O	2:D:156:ALA:HB3	2.09	0.52
2:E:98:GLU:H	2:E:99:PRO:CD	2.21	0.52
2:E:151:ILE:CA	2:E:154:ARG:HD3	2.36	0.52
1:A:1354:GLN:O	1:A:1354:GLN:HG3	2.09	0.52
1:A:1404:TYR:O	1:A:1407:ALA:CB	2.52	0.52
1:A:1420:ASN:OD1	1:A:1447:LEU:O	2.27	0.52
1:B:1090:GLY:HA2	1:B:1094:ARG:NH2	2.24	0.52
1:B:1142:GLN:C	1:B:1142:GLN:CD	2.78	0.52
1:B:1254:LYS:HD2	1:B:1285:GLU:CD	2.34	0.52
1:B:1254:LYS:NZ	1:B:1285:GLU:HG2	2.25	0.52
1:B:1471:PHE:CA	1:B:1474:GLU:HG2	2.38	0.52
1:B:1583:LEU:O	1:B:1587:TRP:CE2	2.63	0.52
1:B:1588:ARG:HD3	2:F:195:UNK:CB	2.40	0.52
1:C:1082:VAL:HG22	1:C:1107:VAL:HG11	1.90	0.52
1:C:1234:LEU:HD21	1:C:1264:LYS:NZ	2.15	0.52
1:C:1251:ARG:O	1:C:1252:THR:OG1	2.20	0.52
1:C:1284:GLU:C	1:C:1284:GLU:OE2	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1421:ASP:HA	1:C:1424:MET:SD	2.49	0.52
1:C:1525:VAL:O	1:C:1525:VAL:HG22	2.09	0.52
1:C:1601:GLN:HA	1:C:1604:LYS:HD2	1.90	0.52
2:D:102:ILE:O	2:D:106:ARG:HB2	2.09	0.52
2:E:155:ILE:O	2:E:156:ALA:HB3	2.09	0.52
1:A:1164:ALA:O	1:A:1165:ARG:HB3	2.10	0.52
1:A:1267:ARG:NH2	1:A:1298:GLU:OE1	2.42	0.52
1:A:1335:HIS:C	1:A:1335:HIS:ND1	2.67	0.52
1:A:1510:ILE:N	1:A:1510:ILE:CD1	2.73	0.52
1:A:1587:TRP:HE1	1:A:1594:PHE:HE2	1.46	0.52
1:B:1170:GLU:HG2	1:B:1171:THR:N	2.24	0.52
1:B:1510:ILE:N	1:B:1510:ILE:CD1	2.73	0.52
1:B:1570:LEU:O	1:B:1570:LEU:HD23	2.08	0.52
1:B:1578:ARG:HH11	1:B:1582:VAL:HG12	1.74	0.52
1:B:1624:GLU:O	1:B:1626:ALA:N	2.42	0.52
1:C:1449:LYS:HB3	1:C:1450:PRO:HD3	1.91	0.52
1:C:1570:LEU:O	1:C:1570:LEU:HD23	2.09	0.52
2:D:14:UNK:C	2:D:16:UNK:H	2.21	0.52
2:E:154:ARG:NH1	2:E:154:ARG:CB	2.73	0.52
1:A:1475:GLU:CD	2:F:149:ASN:HD21	2.18	0.52
1:A:1525:VAL:HG22	1:A:1525:VAL:O	2.09	0.52
1:A:1588:ARG:CZ	2:E:192:UNK:HA	2.38	0.52
1:B:1278:VAL:O	1:B:1278:VAL:HG12	2.09	0.52
1:B:1421:ASP:HA	1:B:1424:MET:SD	2.49	0.52
1:C:1273:GLY:C	1:C:1275:HIS:N	2.65	0.52
1:C:1303:LEU:HD12	1:C:1320:LEU:CD1	2.34	0.52
1:C:1613:LEU:O	1:C:1616:SER:HB2	2.10	0.52
2:D:154:ARG:NH1	2:D:154:ARG:CB	2.73	0.52
1:A:1121:VAL:HG12	1:A:1125:ILE:HB	1.91	0.52
1:A:1382:PRO:CG	1:A:1410:PHE:HE1	2.23	0.52
1:B:1167:SER:O	1:B:1168:TYR:CG	2.61	0.52
1:B:1368:TYR:HD1	1:B:1370:GLU:HG2	1.66	0.52
1:C:1136:SER:C	1:C:1136:SER:N	2.58	0.52
1:C:1154:VAL:HG13	1:C:1176:ALA:HB1	1.90	0.52
1:C:1368:TYR:O	1:C:1369:GLU:HB2	2.09	0.52
1:C:1377:THR:CA	1:C:1381:HIS:HD2	2.21	0.52
1:C:1469:ASN:HD22	1:C:1498:ARG:HH22	1.56	0.52
1:A:1083:GLN:HG2	1:A:1107:VAL:HB	1.91	0.52
1:A:1086:ILE:CB	1:A:1089:ILE:HB	2.40	0.52
1:A:1419:LEU:HD23	1:A:1447:LEU:CD1	2.40	0.52
1:B:1345:ILE:H	1:B:1346:PRO:CD	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1597:PRO:HB3	1:B:1601:GLN:NE2	2.23	0.52
1:B:1610:VAL:O	1:B:1614:ASP:CG	2.53	0.52
1:C:1197:HIS:O	1:C:1198:ILE:C	2.53	0.52
1:C:1297:GLU:HA	1:C:1300:ILE:HG12	1.92	0.52
1:C:1353:GLU:OE2	1:C:1361:LEU:HD11	2.10	0.52
2:D:127:TRP:HD1	2:D:128:ARG:HG3	1.72	0.52
2:E:181:UNK:C	2:E:183:UNK:N	2.71	0.52
2:F:154:ARG:NH1	2:F:154:ARG:CB	2.73	0.52
1:A:1162:LYS:O	1:A:1163:LYS:CB	2.55	0.52
1:A:1292:ASP:O	2:F:97:GLN:CG	2.56	0.52
1:A:1358:TRP:CE3	1:A:1381:HIS:CG	2.98	0.52
1:B:1136:SER:OG	1:B:1141:VAL:HG11	2.09	0.52
1:C:1206:TYR:HB2	1:C:1226:ARG:HG3	1.91	0.52
1:C:1279:HIS:CD2	1:C:1283:LEU:CD1	2.93	0.52
1:C:1319:GLU:HA	1:C:1322:ILE:CD1	2.39	0.52
1:C:1419:LEU:HD23	1:C:1447:LEU:CD1	2.40	0.52
1:C:1423:LEU:HD12	1:C:1451:TYR:HB2	1.92	0.52
1:A:1161:ARG:NE	1:A:1170:GLU:HB2	2.25	0.52
1:A:1234:LEU:HG	1:A:1235:GLY:N	2.20	0.52
1:A:1363:PHE:O	1:A:1366:ASP:HB3	2.10	0.52
1:A:1391:PHE:CD2	1:A:1411:TYR:OH	2.54	0.52
1:A:1445:LEU:HD23	1:A:1448:VAL:HG22	1.91	0.52
1:A:1587:TRP:HH2	1:C:1601:GLN:CG	2.19	0.52
1:B:1150:TRP:O	1:B:1153:LEU:HB3	2.10	0.52
1:B:1368:TYR:O	1:B:1369:GLU:HB2	2.09	0.52
1:C:1208:GLU:O	1:C:1209:LYS:HG2	2.10	0.52
1:C:1461:LYS:HG2	1:C:1489:ASN:HD21	1.74	0.52
1:C:1566:PHE:HE2	2:E:181:UNK:HA	1.71	0.52
1:C:1594:PHE:O	1:C:1596:MET:HE2	2.09	0.52
1:A:1142:GLN:C	1:A:1142:GLN:CD	2.78	0.51
1:A:1284:GLU:OE2	1:A:1284:GLU:C	2.52	0.51
1:A:1353:GLU:OE2	1:A:1361:LEU:HD11	2.10	0.51
1:B:1082:VAL:CG1	1:B:1083:GLN:H	2.15	0.51
1:B:1177:LEU:O	1:B:1180:THR:OG1	2.24	0.51
1:B:1273:GLY:C	1:B:1275:HIS:N	2.64	0.51
1:B:1588:ARG:HH12	2:F:192:UNK:CA	2.17	0.51
1:B:1594:PHE:O	1:B:1596:MET:HE3	2.09	0.51
1:C:1151:GLU:O	1:C:1151:GLU:HG2	2.10	0.51
1:C:1358:TRP:CE3	1:C:1381:HIS:CG	2.98	0.51
1:A:1137:TYR:CB	1:A:1138:MET:HE3	2.39	0.51
1:A:1278:VAL:O	1:A:1278:VAL:HG12	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1361:LEU:HD21	1:A:1365:TYR:OH	2.10	0.51
1:A:1389:GLY:O	1:A:1392:LYS:N	2.40	0.51
1:A:1445:LEU:O	1:A:1445:LEU:HD23	2.10	0.51
1:A:1549:LEU:O	1:A:1552:GLU:HB2	2.10	0.51
1:A:1583:LEU:O	1:A:1587:TRP:CE2	2.63	0.51
1:B:1079:THR:O	1:B:1079:THR:CG2	2.56	0.51
1:B:1135:SER:O	1:B:1136:SER:C	2.53	0.51
1:B:1190:ILE:HD13	1:B:1216:LEU:HD21	1.92	0.51
1:B:1416:PRO:CG	2:D:130:LYS:CD	2.87	0.51
1:B:1420:ASN:HD21	1:B:1447:LEU:HD13	1.76	0.51
1:C:1122:LYS:O	1:C:1126:ASP:N	2.44	0.51
1:C:1286:LEU:HG	1:C:1286:LEU:O	2.11	0.51
1:C:1420:ASN:OD1	1:C:1447:LEU:O	2.28	0.51
1:C:1524:SER:C	1:C:1526:GLU:H	2.16	0.51
1:C:1578:ARG:HH11	1:C:1582:VAL:HG12	1.74	0.51
2:E:127:TRP:HD1	2:E:128:ARG:HG3	1.72	0.51
1:A:1112:ALA:O	1:A:1116:LEU:HD23	2.10	0.51
1:A:1455:VAL:O	1:A:1456:GLN:HB3	2.11	0.51
1:A:1610:VAL:O	1:A:1614:ASP:CG	2.54	0.51
1:B:1170:GLU:CG	1:B:1196:ALA:HB2	2.40	0.51
1:B:1244:ALA:HB2	1:B:1275:HIS:ND1	2.15	0.51
1:B:1361:LEU:HD21	1:B:1365:TYR:OH	2.10	0.51
1:B:1525:VAL:HG22	1:B:1525:VAL:O	2.09	0.51
1:C:1085:LEU:C	1:C:1086:ILE:O	2.45	0.51
1:C:1122:LYS:HD2	1:C:1149:ASN:OD1	2.10	0.51
1:C:1157:LEU:HD12	1:C:1173:LEU:HD13	1.92	0.51
1:C:1167:SER:CA	1:C:1171:THR:CB	2.88	0.51
1:C:1455:VAL:O	1:C:1456:GLN:HB3	2.11	0.51
1:C:1494:SER:O	1:C:1497:GLN:HB2	2.11	0.51
2:E:154:ARG:HB3	2:E:154:ARG:CZ	2.40	0.51
2:F:103:ARG:HG3	2:F:103:ARG:O	2.10	0.51
2:F:124:GLU:HA	2:F:127:TRP:CE2	2.45	0.51
1:A:1286:LEU:HG	1:A:1286:LEU:O	2.11	0.51
1:A:1412:LEU:HA	1:A:1419:LEU:CD2	2.33	0.51
1:B:1122:LYS:O	1:B:1126:ASP:N	2.44	0.51
1:B:1377:THR:CA	1:B:1381:HIS:HD2	2.21	0.51
1:C:1106:ALA:O	1:C:1107:VAL:C	2.53	0.51
2:D:53:UNK:C	2:D:55:UNK:N	2.72	0.51
2:D:154:ARG:HB3	2:D:154:ARG:CZ	2.40	0.51
2:E:152:ASN:O	2:E:153:ASN:CB	2.59	0.51
1:A:1108:TRP:HE1	1:A:1131:ALA:CB	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1145:ASN:ND2	1:A:1153:LEU:HD21	2.26	0.51
1:A:1258:PHE:CG	1:A:1289:TYR:CD2	2.89	0.51
1:A:1274:LEU:O	1:A:1278:VAL:HG23	2.10	0.51
1:A:1613:LEU:O	1:A:1616:SER:HB2	2.10	0.51
1:B:1420:ASN:ND2	1:B:1447:LEU:HD13	2.26	0.51
1:C:1274:LEU:HA	1:C:1277:VAL:HG22	1.90	0.51
1:C:1578:ARG:NH1	1:C:1583:LEU:HD23	2.21	0.51
2:D:51:UNK:O	2:D:53:UNK:N	2.44	0.51
2:E:118:ALA:HA	2:E:121:LYS:HZ2	1.75	0.51
2:F:188:UNK:O	2:F:191:UNK:N	2.43	0.51
1:A:1159:MET:CE	1:A:1163:LYS:HZ1	2.23	0.51
1:B:1111:LEU:HD22	1:B:1111:LEU:C	2.29	0.51
1:B:1412:LEU:HA	1:B:1419:LEU:CD2	2.33	0.51
1:B:1445:LEU:O	1:B:1445:LEU:HD23	2.11	0.51
1:C:1592:MET:HE2	1:C:1593:ASP:N	2.26	0.51
2:D:124:GLU:HA	2:D:127:TRP:CE2	2.45	0.51
1:A:1162:LYS:C	1:A:1162:LYS:CB	2.80	0.51
1:A:1206:TYR:CE2	1:A:1226:ARG:HG3	2.46	0.51
1:A:1232:VAL:CG2	1:A:1233:HIS:H	2.09	0.51
1:B:1083:GLN:O	1:B:1085:LEU:N	2.44	0.51
1:B:1401:VAL:HG22	1:B:1429:ARG:NH2	2.26	0.51
1:B:1494:SER:O	1:B:1497:GLN:HB2	2.11	0.51
1:B:1598:TYR:CE2	2:D:200:UNK:C	2.79	0.51
1:C:1130:LYS:HD2	1:C:1156:TYR:CE1	2.46	0.51
1:C:1233:HIS:O	1:C:1234:LEU:O	2.29	0.51
1:C:1244:ALA:HB1	1:C:1275:HIS:C	2.35	0.51
1:C:1401:VAL:HG22	1:C:1429:ARG:NH2	2.26	0.51
1:C:1586:ALA:HB2	1:C:1594:PHE:CE1	2.46	0.51
2:D:188:UNK:C	2:D:190:UNK:H2	2.24	0.51
1:A:1395:ILE:HD11	1:A:1403:LEU:HD12	1.93	0.51
1:A:1554:LEU:HA	1:A:1557:PHE:CD2	2.40	0.51
1:B:1363:PHE:O	1:B:1366:ASP:HB3	2.11	0.51
1:B:1490:PHE:CZ	1:B:1492:ASN:CG	2.87	0.51
1:B:1578:ARG:HD3	1:B:1582:VAL:CB	2.40	0.51
1:C:1082:VAL:CG1	1:C:1083:GLN:N	2.69	0.51
1:C:1420:ASN:HD21	1:C:1447:LEU:HD13	1.76	0.51
1:C:1578:ARG:HD3	1:C:1582:VAL:CB	2.40	0.51
1:C:1583:LEU:O	1:C:1587:TRP:CE2	2.63	0.51
1:C:1610:VAL:O	1:C:1614:ASP:CG	2.53	0.51
1:A:1132:ASP:C	1:A:1133:ASP:O	2.52	0.51
1:A:1499:LEU:CB	1:A:1511:ALA:HB2	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1235:GLY:O	1:B:1236:GLU:HB2	2.10	0.51
1:B:1382:PRO:CG	1:B:1410:PHE:HE1	2.23	0.51
1:B:1549:LEU:O	1:B:1552:GLU:HB2	2.10	0.51
1:C:1144:ALA:CB	1:C:1153:LEU:HD13	2.39	0.51
1:C:1145:ASN:HD22	1:C:1150:TRP:HE1	1.58	0.51
1:C:1231:LEU:O	1:C:1231:LEU:HD12	2.11	0.51
1:C:1411:TYR:HA	1:C:1415:LYS:HB2	1.89	0.51
1:C:1445:LEU:HD23	1:C:1448:VAL:HG22	1.92	0.51
1:C:1549:LEU:O	1:C:1552:GLU:HB2	2.10	0.51
1:C:1592:MET:HG2	1:C:1593:ASP:H	1.76	0.51
1:C:1609:LYS:O	1:C:1612:LYS:HB2	2.11	0.51
2:F:91:GLN:OE1	2:F:95:LEU:HG	2.11	0.51
2:F:129:GLU:HB2	2:F:132:LYS:NZ	2.24	0.51
1:A:1122:LYS:O	1:A:1126:ASP:N	2.44	0.51
1:A:1161:ARG:HH22	1:A:1174:ILE:HG13	1.76	0.51
1:A:1206:TYR:HD1	1:A:1226:ARG:O	1.92	0.51
1:A:1235:GLY:O	1:A:1236:GLU:HB2	2.10	0.51
1:A:1343:VAL:HG22	1:A:1344:ASN:N	2.26	0.51
1:A:1420:ASN:ND2	1:A:1447:LEU:HD13	2.26	0.51
1:A:1461:LYS:HG2	1:A:1489:ASN:HD21	1.75	0.51
1:B:1108:TRP:CD1	1:B:1131:ALA:HB3	2.46	0.51
1:B:1272:CYS:HA	1:B:1275:HIS:CB	2.41	0.51
1:B:1274:LEU:O	1:B:1278:VAL:HG23	2.10	0.51
1:B:1353:GLU:OE2	1:B:1361:LEU:HD11	2.10	0.51
1:B:1461:LYS:HG2	1:B:1489:ASN:HD21	1.75	0.51
1:C:1136:SER:HB2	1:C:1140:VAL:CG2	2.41	0.51
1:C:1193:PRO:C	1:C:1194:ASN:CG	2.76	0.51
1:C:1343:VAL:HG22	1:C:1344:ASN:N	2.26	0.51
1:C:1434:ARG:CZ	2:E:5:UNK:HA	2.36	0.51
2:D:133:LYS:HA	2:D:133:LYS:CE	2.41	0.51
2:D:203:UNK:O	2:D:204:UNK:C	2.59	0.51
1:A:1261:VAL:CG1	1:A:1295:TYR:CE1	2.94	0.50
1:A:1594:PHE:O	1:A:1596:MET:HE3	2.10	0.50
1:B:1189:PHE:O	1:B:1217:LEU:HD23	2.10	0.50
1:C:1218:TYR:CE2	1:C:1223:ASN:O	2.64	0.50
1:C:1333:ARG:HB2	1:C:1360:GLU:HG3	1.91	0.50
1:C:1361:LEU:HD21	1:C:1365:TYR:OH	2.11	0.50
1:C:1395:ILE:HD11	1:C:1403:LEU:HD12	1.93	0.50
1:C:1412:LEU:HA	1:C:1419:LEU:CD2	2.33	0.50
2:D:129:GLU:HB2	2:D:132:LYS:NZ	2.24	0.50
2:E:133:LYS:HA	2:E:133:LYS:CE	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:203:UNK:C	2:E:203:UNK:CB	2.79	0.50
2:F:154:ARG:HB3	2:F:154:ARG:CZ	2.40	0.50
1:A:1079:THR:O	1:A:1079:THR:CG2	2.56	0.50
1:A:1125:ILE:O	1:A:1129:ILE:HD13	2.10	0.50
1:A:1234:LEU:O	1:A:1236:GLU:OE1	2.29	0.50
1:A:1578:ARG:HD3	1:A:1582:VAL:CB	2.41	0.50
1:A:1578:ARG:NE	1:A:1583:LEU:HD23	2.24	0.50
1:B:1159:MET:SD	1:B:1162:LYS:HD3	2.51	0.50
1:B:1168:TYR:O	1:B:1172:GLU:CG	2.60	0.50
1:B:1198:ILE:HA	1:B:1201:VAL:HG23	1.92	0.50
1:B:1273:GLY:C	1:B:1275:HIS:H	2.19	0.50
1:B:1395:ILE:HD11	1:B:1403:LEU:HD12	1.93	0.50
1:B:1482:THR:HA	1:B:1485:ASP:CG	2.37	0.50
1:B:1499:LEU:CB	1:B:1511:ALA:HB2	2.36	0.50
1:B:1577:LEU:C	1:B:1579:PRO:HD3	2.37	0.50
1:C:1080:SER:C	1:C:1082:VAL:H	2.19	0.50
1:C:1272:CYS:HA	1:C:1275:HIS:CB	2.41	0.50
1:C:1332:MET:O	1:C:1336:LEU:HG	2.11	0.50
1:C:1469:ASN:HD21	1:C:1498:ARG:HH12	1.59	0.50
1:C:1597:PRO:O	1:C:1598:TYR:CD2	2.64	0.50
1:A:1089:ILE:HD11	2:F:13:UNK:CB	2.42	0.50
1:A:1157:LEU:HB3	1:A:1173:LEU:HD11	1.92	0.50
1:A:1490:PHE:CZ	1:A:1492:ASN:CG	2.87	0.50
1:B:1105:PRO:O	1:B:1106:ALA:HB2	2.11	0.50
1:B:1112:ALA:O	1:B:1116:LEU:HD23	2.10	0.50
1:B:1161:ARG:NH1	1:B:1193:PRO:C	2.68	0.50
1:B:1343:VAL:HG22	1:B:1344:ASN:N	2.26	0.50
1:C:1167:SER:CA	1:C:1171:THR:HB	2.41	0.50
1:C:1269:ALA:HB3	1:C:1295:TYR:OH	2.12	0.50
2:D:127:TRP:CD1	2:D:128:ARG:N	2.80	0.50
2:F:118:ALA:HA	2:F:121:LYS:HZ2	1.73	0.50
1:B:1116:LEU:HD11	1:B:1122:LYS:CD	2.41	0.50
1:B:1336:LEU:CD1	1:B:1360:GLU:HB3	2.41	0.50
1:C:1387:LYS:HB2	1:C:1390:GLN:CG	2.41	0.50
1:C:1420:ASN:ND2	1:C:1447:LEU:HD13	2.26	0.50
1:C:1482:THR:HA	1:C:1485:ASP:CG	2.37	0.50
2:E:124:GLU:HA	2:E:127:TRP:CE2	2.46	0.50
2:F:94:ARG:NE	2:F:98:GLU:OE2	2.39	0.50
1:A:1189:PHE:O	1:A:1217:LEU:HD23	2.11	0.50
1:A:1190:ILE:HD13	1:A:1216:LEU:HD21	1.94	0.50
1:A:1277:VAL:C	1:A:1279:HIS:HD1	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1301:THR:CA	1:A:1304:GLU:HG3	2.32	0.50
1:A:1336:LEU:CD1	1:A:1360:GLU:HB3	2.41	0.50
1:B:1286:LEU:O	1:B:1286:LEU:HG	2.10	0.50
1:B:1358:TRP:CE3	1:B:1381:HIS:CG	2.98	0.50
1:B:1469:ASN:HD21	1:B:1498:ARG:HH12	1.59	0.50
1:B:1469:ASN:ND2	1:B:1498:ARG:HH22	2.09	0.50
1:C:1181:ASN:CG	1:C:1185:GLU:HB2	2.37	0.50
1:C:1270:GLN:HG3	1:C:1298:GLU:CG	2.42	0.50
1:C:1317:PHE:CD1	1:C:1339:PHE:HB3	2.47	0.50
1:C:1345:ILE:N	1:C:1346:PRO:HD2	2.20	0.50
1:C:1445:LEU:O	1:C:1445:LEU:HD23	2.11	0.50
1:C:1490:PHE:CZ	1:C:1492:ASN:CG	2.88	0.50
1:C:1513:TYR:HA	1:C:1516:LYS:HE2	1.93	0.50
2:F:127:TRP:CD1	2:F:128:ARG:N	2.80	0.50
1:A:1125:ILE:O	1:A:1129:ILE:CD1	2.60	0.50
1:A:1161:ARG:HG2	1:A:1173:LEU:HD23	1.91	0.50
1:B:1165:ARG:O	1:B:1165:ARG:CG	2.59	0.50
1:B:1188:GLU:C	1:B:1190:ILE:N	2.66	0.50
1:B:1234:LEU:O	1:B:1236:GLU:OE1	2.29	0.50
1:B:1402:GLU:HA	1:B:1405:TYR:CD2	2.47	0.50
1:B:1554:LEU:HD23	1:B:1582:VAL:HG12	1.93	0.50
1:B:1613:LEU:O	1:B:1616:SER:HB2	2.11	0.50
1:C:1112:ALA:O	1:C:1116:LEU:HD23	2.10	0.50
1:C:1414:PHE:CE1	2:E:123:MET:CB	2.82	0.50
1:C:1586:ALA:O	1:C:1590:ASN:ND2	2.44	0.50
1:C:1602:VAL:HG22	2:E:203:UNK:C	2.42	0.50
2:E:118:ALA:CA	2:E:121:LYS:HE3	2.41	0.50
2:F:192:UNK:O	2:F:195:UNK:CB	2.60	0.50
1:A:1130:LYS:HG2	1:A:1156:TYR:CE2	2.46	0.50
1:A:1255:GLU:C	1:A:1289:TYR:OH	2.55	0.50
1:A:1272:CYS:HA	1:A:1275:HIS:CB	2.41	0.50
1:A:1420:ASN:HD21	1:A:1447:LEU:HD13	1.76	0.50
1:A:1458:HIS:C	1:A:1460:ASN:H	2.20	0.50
1:A:1474:GLU:C	1:A:1475:GLU:HG3	2.37	0.50
1:A:1494:SER:O	1:A:1497:GLN:HB2	2.11	0.50
1:B:1088:HIS:N	1:B:1089:ILE:HD12	2.26	0.50
1:B:1332:MET:O	1:B:1336:LEU:HG	2.11	0.50
1:B:1375:ILE:HA	1:B:1378:MET:HE3	1.93	0.50
1:B:1428:PRO:O	1:B:1429:ARG:HB2	2.11	0.50
1:C:1122:LYS:NZ	1:C:1147:SER:CB	2.68	0.50
1:C:1363:PHE:O	1:C:1366:ASP:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1597:PRO:O	1:C:1598:TYR:CG	2.65	0.50
2:D:152:ASN:O	2:D:153:ASN:CB	2.58	0.50
1:A:1214:ALA:O	1:A:1218:TYR:CB	2.57	0.50
1:A:1401:VAL:HG22	1:A:1429:ARG:NH2	2.26	0.50
1:A:1577:LEU:C	1:A:1579:PRO:HD3	2.36	0.50
1:B:1513:TYR:HA	1:B:1516:LYS:HE2	1.94	0.50
1:C:1149:ASN:N	1:C:1149:ASN:ND2	2.60	0.50
1:C:1382:PRO:CG	1:C:1410:PHE:HE1	2.23	0.50
1:C:1422:LEU:O	1:C:1422:LEU:HD22	2.12	0.50
1:C:1469:ASN:ND2	1:C:1498:ARG:HH22	2.09	0.50
1:A:1148:GLY:HA2	1:A:1150:TRP:CH2	2.47	0.50
1:A:1375:ILE:HA	1:A:1378:MET:HE3	1.93	0.50
1:A:1448:VAL:CA	1:A:1451:TYR:HB3	2.42	0.50
1:A:1469:ASN:ND2	1:A:1498:ARG:HH22	2.09	0.50
1:A:1580:ASP:OD1	1:C:1605:GLU:HB2	2.12	0.50
1:B:1474:GLU:C	1:B:1475:GLU:HG3	2.37	0.50
1:B:1551:GLU:OE1	1:B:1581:VAL:HG12	2.11	0.50
1:C:1377:THR:O	1:C:1381:HIS:HB2	2.12	0.50
1:A:1126:ASP:OD1	1:A:1156:TYR:OH	2.27	0.49
1:A:1208:GLU:OE1	1:A:1208:GLU:HA	2.12	0.49
1:A:1402:GLU:C	1:A:1402:GLU:CD	2.80	0.49
1:A:1402:GLU:HA	1:A:1405:TYR:CD2	2.47	0.49
1:A:1423:LEU:HD12	1:A:1451:TYR:HB2	1.93	0.49
1:A:1435:ALA:O	1:A:1439:PHE:CD2	2.65	0.49
1:A:1482:THR:HA	1:A:1485:ASP:CG	2.36	0.49
1:A:1587:TRP:O	1:A:1589:HIS:O	2.30	0.49
1:A:1609:LYS:O	1:A:1612:LYS:HB2	2.12	0.49
1:B:1125:ILE:O	1:B:1129:ILE:CD1	2.60	0.49
1:B:1125:ILE:O	1:B:1129:ILE:HD13	2.10	0.49
1:B:1455:VAL:O	1:B:1456:GLN:HB3	2.11	0.49
1:B:1496:ALA:HB2	1:B:1514:LEU:HD13	1.94	0.49
1:C:1167:SER:CA	1:C:1171:THR:OG1	2.60	0.49
1:C:1330:GLN:CG	1:C:1331:LYS:H	2.22	0.49
2:D:178:UNK:O	2:D:181:UNK:CB	2.60	0.49
1:A:1080:SER:C	1:A:1082:VAL:N	2.70	0.49
1:A:1317:PHE:CD1	1:A:1339:PHE:HB3	2.47	0.49
1:A:1513:TYR:HA	1:A:1516:LYS:HE2	1.94	0.49
1:A:1593:ASP:O	1:A:1594:PHE:HB2	2.11	0.49
1:B:1080:SER:C	1:B:1082:VAL:H	2.19	0.49
1:B:1211:TYR:HB2	1:B:1231:LEU:CD1	2.42	0.49
1:B:1389:GLY:O	1:B:1392:LYS:N	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1448:VAL:CA	1:B:1451:TYR:HB3	2.42	0.49
1:B:1513:TYR:HD1	1:B:1516:LYS:CE	2.23	0.49
1:C:1082:VAL:CG2	1:C:1107:VAL:HG11	2.42	0.49
1:C:1149:ASN:O	1:C:1153:LEU:HB3	2.12	0.49
1:C:1301:THR:O	1:C:1304:GLU:HB2	2.12	0.49
1:A:1111:LEU:CD1	1:A:1125:ILE:CG1	2.77	0.49
1:A:1258:PHE:HB2	1:A:1289:TYR:CD1	2.40	0.49
1:A:1295:TYR:O	1:A:1296:PHE:CD2	2.65	0.49
1:A:1330:GLN:CG	1:A:1331:LYS:H	2.22	0.49
1:A:1598:TYR:CE2	2:F:198:UNK:CB	2.95	0.49
1:B:1246:LYS:O	1:B:1247:ALA:HB3	2.09	0.49
1:B:1377:THR:O	1:B:1381:HIS:HB2	2.12	0.49
1:B:1609:LYS:O	1:B:1612:LYS:HB2	2.12	0.49
1:C:1270:GLN:CD	1:C:1298:GLU:CB	2.78	0.49
1:C:1277:VAL:C	1:C:1279:HIS:H	2.17	0.49
2:F:98:GLU:O	2:F:102:ILE:N	2.45	0.49
1:A:1332:MET:O	1:A:1336:LEU:HG	2.11	0.49
1:A:1345:ILE:N	1:A:1346:PRO:HD2	2.20	0.49
1:B:1144:ALA:O	1:B:1153:LEU:HD22	2.12	0.49
1:B:1277:VAL:C	1:B:1279:HIS:HD1	2.20	0.49
1:B:1408:ILE:CD1	1:B:1422:LEU:HD11	2.42	0.49
1:B:1416:PRO:HG2	2:D:130:LYS:HG3	1.89	0.49
1:B:1423:LEU:HD12	1:B:1451:TYR:HB2	1.93	0.49
1:B:1562:LYS:C	1:B:1564:GLU:N	2.71	0.49
1:C:1197:HIS:O	1:C:1199:GLN:N	2.45	0.49
1:C:1402:GLU:HA	1:C:1405:TYR:CD2	2.47	0.49
1:C:1435:ALA:O	1:C:1439:PHE:CD2	2.65	0.49
1:C:1458:HIS:C	1:C:1460:ASN:H	2.19	0.49
1:C:1578:ARG:CD	1:C:1582:VAL:HB	2.43	0.49
2:D:155:ILE:O	2:D:156:ALA:CB	2.60	0.49
2:E:112:ARG:HD3	2:E:113:LEU:N	2.27	0.49
2:E:127:TRP:CD1	2:E:128:ARG:N	2.80	0.49
2:F:167:ASP:O	2:F:168:ILE:O	2.31	0.49
1:A:1137:TYR:CA	1:A:1138:MET:HB2	2.38	0.49
1:A:1168:TYR:O	1:A:1172:GLU:CG	2.60	0.49
1:A:1257:CYS:SG	1:A:1290:TYR:CZ	3.05	0.49
1:A:1263:GLY:O	1:A:1264:LYS:CB	2.61	0.49
1:A:1358:TRP:CE2	1:A:1381:HIS:CG	3.01	0.49
1:A:1596:MET:H	1:A:1597:PRO:CD	2.12	0.49
1:B:1108:TRP:HE1	1:B:1131:ALA:CB	2.25	0.49
1:B:1263:GLY:O	1:B:1264:LYS:CB	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1282:GLU:C	1:B:1283:LEU:CD1	2.86	0.49
1:C:1168:TYR:O	1:C:1172:GLU:CG	2.59	0.49
1:C:1274:LEU:O	1:C:1278:VAL:HG23	2.12	0.49
1:C:1336:LEU:CD1	1:C:1360:GLU:HB3	2.41	0.49
1:C:1402:GLU:C	1:C:1402:GLU:CD	2.80	0.49
2:F:95:LEU:O	2:F:99:PRO:HD2	2.13	0.49
2:F:112:ARG:C	2:F:113:LEU:O	2.54	0.49
2:F:131:ALA:HA	2:F:134:ASP:OD2	2.13	0.49
1:A:1253:TRP:CE3	1:A:1276:ILE:HB	2.48	0.49
1:A:1279:HIS:CD2	1:A:1282:GLU:CB	2.95	0.49
1:A:1422:LEU:O	1:A:1422:LEU:HD22	2.13	0.49
1:A:1496:ALA:HB2	1:A:1514:LEU:HD13	1.95	0.49
1:B:1080:SER:C	1:B:1082:VAL:N	2.70	0.49
1:B:1170:GLU:OE2	1:B:1195:ASN:O	2.30	0.49
1:B:1208:GLU:OE1	1:B:1208:GLU:HA	2.12	0.49
1:C:1132:ASP:O	1:C:1163:LYS:HE2	2.12	0.49
1:C:1145:ASN:ND2	1:C:1150:TRP:HE1	2.09	0.49
1:C:1358:TRP:CE2	1:C:1381:HIS:CG	3.01	0.49
1:C:1428:PRO:O	1:C:1429:ARG:HB2	2.11	0.49
1:C:1596:MET:O	1:C:1598:TYR:CD2	2.65	0.49
2:F:99:PRO:HA	2:F:102:ILE:HG12	1.93	0.49
1:A:1273:GLY:O	1:A:1277:VAL:HG13	2.12	0.49
1:A:1301:THR:O	1:A:1304:GLU:HB2	2.12	0.49
1:A:1302:MET:C	1:A:1304:GLU:N	2.69	0.49
1:A:1408:ILE:CD1	1:A:1422:LEU:HD11	2.42	0.49
1:A:1513:TYR:HA	1:A:1516:LYS:HG2	1.95	0.49
1:A:1592:MET:CG	1:A:1593:ASP:N	2.75	0.49
1:B:1081:ALA:O	1:B:1098:PHE:CD1	2.65	0.49
1:B:1083:GLN:C	1:B:1085:LEU:N	2.70	0.49
1:B:1402:GLU:C	1:B:1402:GLU:CD	2.80	0.49
1:C:1389:GLY:O	1:C:1392:LYS:HB2	2.13	0.49
1:C:1448:VAL:CA	1:C:1451:TYR:HB3	2.42	0.49
1:C:1513:TYR:HD1	1:C:1516:LYS:CE	2.23	0.49
1:C:1577:LEU:C	1:C:1579:PRO:HD3	2.36	0.49
2:E:131:ALA:HA	2:E:134:ASP:OD2	2.13	0.49
2:F:154:ARG:CB	2:F:154:ARG:HH11	2.26	0.49
1:A:1372:ASP:O	1:A:1376:ILE:CG1	2.49	0.49
1:A:1414:PHE:HD1	2:F:127:TRP:CB	2.25	0.49
1:B:1137:TYR:CG	1:B:1138:MET:HB2	2.42	0.49
1:B:1422:LEU:O	1:B:1422:LEU:HD22	2.13	0.49
1:B:1435:ALA:O	1:B:1439:PHE:CD2	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1458:HIS:C	1:B:1460:ASN:H	2.19	0.49
1:C:1261:VAL:HG11	1:C:1294:GLY:O	2.13	0.49
1:C:1361:LEU:HD22	1:C:1365:TYR:HE2	1.72	0.49
1:C:1518:ASN:CG	1:C:1518:ASN:O	2.55	0.49
1:C:1562:LYS:C	1:C:1564:GLU:N	2.71	0.49
1:C:1601:GLN:CG	1:C:1604:LYS:HD2	2.40	0.49
1:A:1292:ASP:HA	2:F:97:GLN:CG	2.42	0.49
1:A:1377:THR:O	1:A:1381:HIS:HB2	2.12	0.49
1:A:1407:ALA:C	1:A:1409:GLN:H	2.21	0.49
1:B:1150:TRP:HA	1:B:1153:LEU:HB3	1.94	0.49
1:B:1181:ASN:CG	1:B:1182:ARG:N	2.71	0.49
1:B:1601:GLN:CG	1:B:1604:LYS:HD2	2.39	0.49
1:C:1154:VAL:HG11	1:C:1177:LEU:HA	1.94	0.49
1:C:1496:ALA:HB2	1:C:1514:LEU:HD13	1.95	0.49
2:D:154:ARG:CB	2:D:154:ARG:HH11	2.26	0.49
2:F:182:UNK:O	2:F:183:UNK:C	2.61	0.49
1:A:1198:ILE:O	1:A:1198:ILE:HG22	2.12	0.49
1:A:1277:VAL:CG2	1:A:1278:VAL:N	2.70	0.49
1:A:1428:PRO:O	1:A:1429:ARG:HB2	2.12	0.49
1:A:1580:ASP:OD1	1:C:1605:GLU:CB	2.61	0.49
1:A:1594:PHE:O	1:A:1596:MET:HE2	2.13	0.49
1:B:1137:TYR:CA	1:B:1138:MET:HB2	2.38	0.49
1:C:1166:GLU:HB2	1:C:1168:TYR:CZ	2.48	0.49
1:C:1231:LEU:O	1:C:1232:VAL:O	2.31	0.49
1:C:1405:TYR:CE2	1:C:1434:ARG:NH1	2.81	0.49
2:E:105:TRP:CA	2:E:108:GLU:HG3	2.41	0.49
2:E:108:GLU:C	2:E:108:GLU:CD	2.81	0.49
2:E:112:ARG:C	2:E:113:LEU:O	2.54	0.49
1:B:1130:LYS:O	1:B:1133:ASP:O	2.31	0.48
1:B:1193:PRO:HG2	1:B:1194:ASN:H	1.78	0.48
1:B:1578:ARG:NE	1:B:1583:LEU:HD23	2.24	0.48
1:C:1278:VAL:O	1:C:1278:VAL:CG1	2.54	0.48
1:C:1375:ILE:HA	1:C:1378:MET:HE3	1.94	0.48
1:C:1474:GLU:C	1:C:1475:GLU:HG3	2.37	0.48
1:C:1572:THR:CG2	1:C:1599:PHE:CD2	2.94	0.48
1:C:1597:PRO:HB3	1:C:1601:GLN:NE2	2.23	0.48
1:A:1273:GLY:C	1:A:1275:HIS:H	2.20	0.48
1:A:1282:GLU:C	1:A:1283:LEU:CD1	2.86	0.48
1:A:1384:ASP:OD1	2:F:115:GLU:OE1	2.30	0.48
1:A:1414:PHE:O	2:F:130:LYS:HD3	2.12	0.48
1:B:1203:ASP:HB3	2:D:60:UNK:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1273:GLY:O	1:B:1277:VAL:HG13	2.12	0.48
1:B:1389:GLY:O	1:B:1392:LYS:HB2	2.13	0.48
1:B:1513:TYR:HA	1:B:1516:LYS:HG2	1.95	0.48
1:B:1546:ASP:O	1:B:1547:THR:C	2.56	0.48
1:C:1273:GLY:O	1:C:1277:VAL:HG13	2.13	0.48
1:C:1302:MET:C	1:C:1304:GLU:N	2.69	0.48
1:C:1548:GLU:CD	1:C:1548:GLU:H	2.21	0.48
2:D:131:ALA:HA	2:D:134:ASP:OD2	2.13	0.48
2:E:114:GLN:CG	2:E:115:GLU:N	2.26	0.48
2:E:154:ARG:CB	2:E:154:ARG:HH11	2.26	0.48
2:E:180:UNK:O	2:E:181:UNK:O	2.30	0.48
2:F:155:ILE:O	2:F:156:ALA:CB	2.61	0.48
1:A:1416:PRO:O	1:A:1417:LEU:C	2.56	0.48
1:B:1111:LEU:O	1:B:1115:GLN:HB2	2.14	0.48
1:B:1272:CYS:O	1:B:1276:ILE:HG23	2.14	0.48
1:C:1620:ARG:CB	1:C:1620:ARG:NH1	2.54	0.48
2:E:155:ILE:O	2:E:156:ALA:CB	2.61	0.48
1:A:1345:ILE:H	1:A:1346:PRO:CD	2.18	0.48
1:A:1469:ASN:HD21	1:A:1498:ARG:HH12	1.59	0.48
1:A:1562:LYS:C	1:A:1564:GLU:N	2.70	0.48
1:B:1193:PRO:O	1:B:1194:ASN:O	2.30	0.48
1:B:1317:PHE:CD1	1:B:1339:PHE:HB3	2.47	0.48
1:B:1461:LYS:HG2	1:B:1489:ASN:ND2	2.29	0.48
1:C:1198:ILE:O	1:C:1201:VAL:CG2	2.61	0.48
1:C:1461:LYS:HG2	1:C:1489:ASN:ND2	2.28	0.48
1:C:1577:LEU:N	1:C:1577:LEU:HD23	2.29	0.48
1:C:1578:ARG:NE	1:C:1583:LEU:HD23	2.24	0.48
1:C:1586:ALA:HB1	1:C:1590:ASN:ND2	2.17	0.48
2:D:102:ILE:O	2:D:106:ARG:CB	2.61	0.48
1:A:1295:TYR:O	1:A:1296:PHE:CG	2.67	0.48
1:A:1546:ASP:O	1:A:1547:THR:C	2.56	0.48
1:B:1161:ARG:HE	1:B:1173:LEU:HD23	1.76	0.48
1:B:1358:TRP:CE2	1:B:1381:HIS:CG	3.01	0.48
1:B:1452:LEU:HD13	1:B:1467:LEU:CD1	2.43	0.48
1:B:1577:LEU:HD23	1:B:1577:LEU:N	2.29	0.48
1:B:1588:ARG:NE	2:F:190:UNK:O	2.47	0.48
1:C:1214:ALA:O	1:C:1218:TYR:CB	2.57	0.48
1:C:1273:GLY:C	1:C:1275:HIS:H	2.20	0.48
1:C:1569:CYS:O	1:C:1572:THR:OG1	2.32	0.48
1:A:1083:GLN:HE21	1:A:1106:ALA:CB	2.27	0.48
1:A:1121:VAL:CG1	1:A:1125:ILE:HB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1150:TRP:HA	1:A:1153:LEU:HB3	1.96	0.48
1:A:1389:GLY:O	1:A:1392:LYS:HB2	2.13	0.48
1:A:1572:THR:CG2	1:A:1599:PHE:HD2	2.26	0.48
1:B:1254:LYS:HD2	1:B:1285:GLU:CG	2.43	0.48
1:B:1301:THR:O	1:B:1304:GLU:HB2	2.12	0.48
1:B:1569:CYS:O	1:B:1572:THR:OG1	2.32	0.48
1:C:1168:TYR:CA	1:C:1172:GLU:OE2	2.61	0.48
1:C:1175:PHE:CD1	1:C:1200:GLN:HB3	2.48	0.48
2:F:133:LYS:HA	2:F:133:LYS:CE	2.41	0.48
1:A:1080:SER:C	1:A:1082:VAL:H	2.19	0.48
1:A:1188:GLU:C	1:A:1190:ILE:N	2.66	0.48
1:B:1129:ILE:HG13	1:B:1130:LYS:N	2.28	0.48
1:B:1598:TYR:CZ	2:D:201:UNK:CB	2.97	0.48
1:C:1253:TRP:CE3	1:C:1276:ILE:HB	2.48	0.48
1:C:1279:HIS:CD2	1:C:1280:ALA:N	2.81	0.48
1:C:1329:PRO:O	1:C:1330:GLN:C	2.56	0.48
1:C:1329:PRO:O	1:C:1332:MET:HB3	2.14	0.48
1:C:1407:ALA:C	1:C:1409:GLN:H	2.21	0.48
1:C:1416:PRO:O	1:C:1417:LEU:C	2.57	0.48
1:C:1452:LEU:HD13	1:C:1467:LEU:CD1	2.43	0.48
1:C:1513:TYR:HA	1:C:1516:LYS:HG2	1.96	0.48
2:F:112:ARG:HD3	2:F:113:LEU:N	2.28	0.48
1:A:1167:SER:O	1:A:1168:TYR:CE1	2.66	0.48
1:A:1469:ASN:HD22	1:A:1469:ASN:C	2.21	0.48
1:A:1551:GLU:HG2	1:A:1582:VAL:CG2	2.35	0.48
1:A:1563:ARG:C	1:A:1565:CYS:N	2.72	0.48
1:B:1230:THR:O	1:B:1231:LEU:CB	2.61	0.48
1:C:1365:TYR:CB	1:C:1374:ALA:HB2	2.44	0.48
1:C:1416:PRO:O	1:C:1419:LEU:HB3	2.14	0.48
1:C:1592:MET:CG	1:C:1593:ASP:N	2.73	0.48
1:A:1111:LEU:O	1:A:1115:GLN:HB2	2.14	0.48
1:A:1446:PRO:O	1:A:1449:LYS:HB2	2.14	0.48
1:A:1452:LEU:HD13	1:A:1467:LEU:CD1	2.43	0.48
1:B:1151:GLU:O	1:B:1151:GLU:HG2	2.11	0.48
1:B:1181:ASN:CG	1:B:1182:ARG:H	2.21	0.48
1:B:1301:THR:CA	1:B:1304:GLU:HG3	2.32	0.48
1:B:1329:PRO:O	1:B:1332:MET:HB3	2.14	0.48
1:C:1080:SER:C	1:C:1082:VAL:N	2.70	0.48
2:D:124:GLU:OE1	2:D:128:ARG:CZ	2.62	0.48
1:A:1149:ASN:O	1:A:1153:LEU:HB3	2.13	0.48
1:A:1395:ILE:HG23	1:A:1396:THR:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1407:ALA:C	1:B:1409:GLN:H	2.21	0.48
1:B:1421:ASP:O	1:B:1424:MET:HB2	2.14	0.48
1:C:1133:ASP:HB2	1:C:1134:PRO:CD	2.44	0.48
1:C:1190:ILE:HG12	1:C:1216:LEU:HD11	1.94	0.48
1:C:1198:ILE:C	1:C:1201:VAL:HG23	2.38	0.48
1:C:1344:ASN:CG	1:C:1345:ILE:N	2.72	0.48
1:C:1446:PRO:O	1:C:1449:LYS:HB2	2.14	0.48
1:C:1596:MET:H	1:C:1597:PRO:CD	2.09	0.48
2:F:124:GLU:OE1	2:F:128:ARG:CZ	2.62	0.48
1:A:1167:SER:HB3	1:A:1168:TYR:HD1	1.78	0.47
1:A:1206:TYR:CE1	1:A:1230:THR:CB	2.97	0.47
1:A:1375:ILE:HG23	1:A:1391:PHE:CZ	2.49	0.47
1:A:1387:LYS:HB2	1:A:1390:GLN:CG	2.41	0.47
1:A:1505:ILE:O	1:A:1506:GLU:C	2.57	0.47
1:A:1577:LEU:N	1:A:1577:LEU:HD23	2.28	0.47
1:A:1602:VAL:CG1	2:F:202:UNK:O	2.62	0.47
1:A:1602:VAL:HG21	2:F:202:UNK:CB	2.44	0.47
1:B:1280:ALA:C	1:B:1282:GLU:H	2.22	0.47
1:B:1361:LEU:HD21	1:B:1365:TYR:HE2	1.40	0.47
1:B:1416:PRO:O	1:B:1417:LEU:C	2.56	0.47
1:B:1420:ASN:HA	1:B:1423:LEU:CG	2.44	0.47
1:C:1137:TYR:O	1:C:1141:VAL:HG23	2.14	0.47
1:C:1208:GLU:OE1	1:C:1208:GLU:CA	2.62	0.47
1:C:1408:ILE:HG22	1:C:1412:LEU:CG	2.43	0.47
2:E:124:GLU:OE1	2:E:128:ARG:CZ	2.62	0.47
2:F:193:UNK:C	2:F:195:UNK:N	2.76	0.47
1:A:1091:ASN:ND2	1:A:1092:LEU:N	2.61	0.47
1:A:1272:CYS:O	1:A:1276:ILE:HG23	2.14	0.47
1:A:1569:CYS:O	1:A:1572:THR:OG1	2.32	0.47
1:B:1132:ASP:C	1:B:1133:ASP:O	2.56	0.47
1:B:1387:LYS:HB2	1:B:1390:GLN:CG	2.41	0.47
1:B:1405:TYR:CE2	1:B:1434:ARG:NH1	2.81	0.47
1:B:1469:ASN:HD22	1:B:1469:ASN:C	2.21	0.47
1:B:1484:ILE:C	1:B:1484:ILE:HD12	2.39	0.47
1:C:1175:PHE:HE1	1:C:1200:GLN:CB	2.26	0.47
1:C:1253:TRP:HZ3	1:C:1276:ILE:CG2	2.05	0.47
1:C:1505:ILE:O	1:C:1506:GLU:C	2.57	0.47
1:A:1484:ILE:HD12	1:A:1484:ILE:C	2.39	0.47
1:A:1513:TYR:HD1	1:A:1516:LYS:CE	2.23	0.47
1:B:1306:ALA:O	1:B:1316:MET:HE1	2.15	0.47
1:B:1375:ILE:HG23	1:B:1391:PHE:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1578:ARG:CD	1:B:1582:VAL:HB	2.43	0.47
1:C:1092:LEU:O	1:C:1094:ARG:CA	2.54	0.47
1:C:1230:THR:C	1:C:1231:LEU:CG	2.86	0.47
1:C:1329:PRO:O	1:C:1332:MET:N	2.45	0.47
1:C:1495:LEU:O	1:C:1499:LEU:HG	2.15	0.47
1:C:1594:PHE:O	1:C:1596:MET:HE3	2.14	0.47
2:D:127:TRP:CA	2:D:130:LYS:HE3	2.41	0.47
2:F:98:GLU:O	2:F:102:ILE:HG23	2.14	0.47
2:F:127:TRP:CA	2:F:130:LYS:HE3	2.42	0.47
1:A:1113:LYS:HG2	1:A:1117:GLN:NE2	2.30	0.47
1:A:1362:VAL:CG2	1:A:1377:THR:CB	2.83	0.47
1:A:1416:PRO:O	1:A:1419:LEU:HB3	2.14	0.47
1:A:1469:ASN:ND2	1:A:1498:ARG:NH2	2.62	0.47
1:B:1083:GLN:HE21	1:B:1106:ALA:HB3	1.76	0.47
1:B:1253:TRP:CE3	1:B:1276:ILE:HB	2.48	0.47
1:B:1408:ILE:HG22	1:B:1412:LEU:CG	2.43	0.47
1:C:1368:TYR:CE1	1:C:1370:GLU:OE2	2.68	0.47
2:D:102:ILE:HG13	2:D:103:ARG:N	2.30	0.47
2:D:191:UNK:O	2:D:193:UNK:N	2.48	0.47
1:A:1129:ILE:HG13	1:A:1130:LYS:N	2.29	0.47
1:A:1151:GLU:O	1:A:1151:GLU:HG2	2.10	0.47
1:A:1167:SER:C	1:A:1169:VAL:N	2.66	0.47
1:A:1408:ILE:O	1:A:1412:LEU:HB3	2.15	0.47
1:A:1461:LYS:HG2	1:A:1489:ASN:ND2	2.29	0.47
1:A:1567:GLY:O	1:A:1571:PHE:CD1	2.67	0.47
1:B:1505:ILE:O	1:B:1506:GLU:C	2.57	0.47
1:B:1564:GLU:O	1:B:1568:ALA:N	2.46	0.47
1:C:1078:ASN:CB	1:C:1098:PHE:CZ	2.97	0.47
1:C:1111:LEU:O	1:C:1115:GLN:HB2	2.14	0.47
1:C:1324:TYR:CD2	1:C:1332:MET:HA	2.44	0.47
1:C:1553:LEU:O	1:C:1556:TRP:HB3	2.15	0.47
1:C:1567:GLY:O	1:C:1571:PHE:CD1	2.67	0.47
1:C:1588:ARG:CG	1:C:1589:HIS:N	2.77	0.47
1:A:1082:VAL:O	1:A:1085:LEU:HG	2.14	0.47
1:B:1113:LYS:HG2	1:B:1117:GLN:NE2	2.30	0.47
1:B:1476:ASP:CG	1:B:1479:ALA:HB3	2.39	0.47
1:C:1448:VAL:O	1:C:1451:TYR:HB3	2.14	0.47
1:C:1461:LYS:O	1:C:1465:GLU:HB2	2.15	0.47
2:D:153:ASN:ND2	2:D:158:LYS:CB	2.77	0.47
2:E:105:TRP:O	2:E:108:GLU:CD	2.58	0.47
2:F:178:UNK:C	2:F:180:UNK:N	2.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1168:TYR:CA	1:A:1172:GLU:OE2	2.63	0.47
1:A:1193:PRO:HG2	1:A:1194:ASN:H	1.80	0.47
1:A:1230:THR:O	1:A:1231:LEU:CB	2.61	0.47
1:A:1258:PHE:CA	1:A:1289:TYR:CD1	2.96	0.47
1:A:1279:HIS:HE1	1:A:1283:LEU:CD1	2.09	0.47
1:A:1295:TYR:O	1:A:1296:PHE:CB	2.61	0.47
1:A:1306:ALA:O	1:A:1316:MET:HE1	2.15	0.47
1:A:1329:PRO:O	1:A:1332:MET:HB3	2.14	0.47
1:A:1365:TYR:CB	1:A:1374:ALA:HB2	2.44	0.47
1:A:1368:TYR:CE1	1:A:1370:GLU:OE2	2.68	0.47
1:A:1448:VAL:O	1:A:1451:TYR:HB3	2.14	0.47
1:A:1561:GLU:OE2	1:A:1561:GLU:HA	2.14	0.47
1:A:1590:ASN:O	1:A:1591:ILE:C	2.58	0.47
1:A:1599:PHE:CE2	1:A:1600:ILE:HG13	2.50	0.47
1:B:1214:ALA:O	1:B:1218:TYR:CB	2.57	0.47
1:B:1302:MET:C	1:B:1304:GLU:N	2.69	0.47
1:B:1335:HIS:ND1	1:B:1336:LEU:N	2.63	0.47
1:B:1344:ASN:CG	1:B:1345:ILE:N	2.72	0.47
1:B:1401:VAL:O	1:B:1404:TYR:HD1	1.98	0.47
1:B:1448:VAL:O	1:B:1451:TYR:HB3	2.15	0.47
1:B:1491:ASP:O	1:B:1493:ILE:N	2.48	0.47
1:B:1509:ARG:CZ	2:D:166:ALA:CB	2.93	0.47
1:B:1598:TYR:HE2	2:D:200:UNK:CB	2.23	0.47
1:C:1126:ASP:O	1:C:1156:TYR:CE1	2.68	0.47
1:C:1145:ASN:O	1:C:1150:TRP:CE2	2.68	0.47
1:C:1171:THR:HG21	1:C:1200:GLN:OE1	2.14	0.47
1:C:1272:CYS:O	1:C:1276:ILE:HG23	2.14	0.47
1:C:1306:ALA:O	1:C:1316:MET:HE1	2.15	0.47
1:C:1421:ASP:O	1:C:1424:MET:HB2	2.15	0.47
1:C:1561:GLU:HA	1:C:1561:GLU:OE2	2.15	0.47
1:C:1572:THR:HG22	1:C:1578:ARG:HB3	1.96	0.47
2:D:173:UNK:C	2:D:176:UNK:CB	2.92	0.47
2:E:104:LYS:C	2:E:108:GLU:HG2	2.36	0.47
2:E:106:ARG:C	2:E:108:GLU:H	2.23	0.47
2:E:122:VAL:HG23	2:E:123:MET:SD	2.54	0.47
2:F:133:LYS:CE	2:F:133:LYS:CA	2.93	0.47
2:F:183:UNK:N	2:F:188:UNK:CB	2.77	0.47
1:A:1258:PHE:HA	1:A:1289:TYR:CD1	2.50	0.47
1:A:1421:ASP:O	1:A:1424:MET:HB2	2.14	0.47
1:B:1085:LEU:CD2	1:B:1125:ILE:HD11	2.43	0.47
1:B:1326:LYS:C	1:B:1327:PHE:CG	2.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1431:ASP:C	1:B:1433:THR:N	2.73	0.47
1:B:1490:PHE:CE2	1:B:1492:ASN:OD1	2.65	0.47
1:B:1590:ASN:O	1:B:1591:ILE:C	2.57	0.47
1:B:1599:PHE:CE2	1:B:1600:ILE:HG13	2.50	0.47
1:B:1605:GLU:O	1:B:1609:LYS:N	2.48	0.47
1:C:1326:LYS:C	1:C:1327:PHE:CD1	2.92	0.47
1:C:1335:HIS:ND1	1:C:1336:LEU:N	2.63	0.47
1:C:1408:ILE:O	1:C:1412:LEU:HB3	2.15	0.47
2:F:102:ILE:C	2:F:104:LYS:H	2.23	0.47
1:A:1145:ASN:HD22	1:A:1153:LEU:CD2	2.28	0.47
1:A:1290:TYR:CD1	1:A:1295:TYR:CE2	3.03	0.47
1:A:1344:ASN:CG	1:A:1345:ILE:N	2.72	0.47
1:A:1405:TYR:CE2	1:A:1434:ARG:NH1	2.81	0.47
1:A:1412:LEU:HD12	1:A:1419:LEU:HD21	1.66	0.47
1:A:1414:PHE:CD1	2:F:127:TRP:CE3	3.03	0.47
1:A:1495:LEU:O	1:A:1499:LEU:HG	2.15	0.47
1:A:1518:ASN:O	1:A:1518:ASN:CG	2.55	0.47
1:B:1136:SER:HA	1:B:1137:TYR:C	2.38	0.47
1:B:1371:TYR:CB	1:B:1394:ILE:HG22	2.43	0.47
1:B:1495:LEU:O	1:B:1499:LEU:HG	2.15	0.47
1:C:1091:ASN:O	1:C:1092:LEU:CB	2.62	0.47
1:C:1113:LYS:HG2	1:C:1117:GLN:NE2	2.30	0.47
1:C:1150:TRP:HA	1:C:1153:LEU:HB3	1.97	0.47
1:C:1274:LEU:CA	1:C:1277:VAL:CG2	2.86	0.47
1:C:1301:THR:O	1:C:1301:THR:HG22	2.15	0.47
1:C:1375:ILE:HG23	1:C:1391:PHE:CZ	2.49	0.47
1:C:1475:GLU:OE1	2:E:145:GLN:HB2	2.15	0.47
1:C:1564:GLU:O	1:C:1568:ALA:N	2.46	0.47
2:F:118:ALA:CA	2:F:121:LYS:HE3	2.41	0.47
2:F:122:VAL:HG23	2:F:123:MET:SD	2.55	0.47
2:F:187:UNK:O	2:F:188:UNK:C	2.62	0.47
1:A:1162:LYS:CA	1:A:1162:LYS:O	2.41	0.47
1:A:1329:PRO:O	1:A:1330:GLN:C	2.57	0.47
1:A:1553:LEU:O	1:A:1556:TRP:HB3	2.15	0.47
1:A:1605:GLU:O	1:A:1609:LYS:N	2.48	0.47
1:B:1258:PHE:C	1:B:1260:CYS:H	2.23	0.47
1:B:1329:PRO:O	1:B:1330:GLN:C	2.56	0.47
1:B:1553:LEU:O	1:B:1556:TRP:HB3	2.15	0.47
1:B:1596:MET:H	1:B:1597:PRO:CD	2.13	0.47
1:C:1098:PHE:O	1:C:1102:CYS:CB	2.62	0.47
1:C:1194:ASN:N	1:C:1194:ASN:ND2	2.59	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1456:GLN:O	1:C:1456:GLN:HG3	2.07	0.47
1:C:1588:ARG:O	1:C:1589:HIS:O	2.32	0.47
2:E:94:ARG:C	2:E:96:THR:N	2.73	0.47
1:A:1107:VAL:HG12	1:A:1111:LEU:CB	2.43	0.46
1:A:1194:ASN:O	1:A:1195:ASN:C	2.58	0.46
1:A:1206:TYR:CZ	1:A:1230:THR:OG1	2.67	0.46
1:A:1258:PHE:C	1:A:1260:CYS:H	2.23	0.46
1:A:1326:LYS:C	1:A:1327:PHE:CG	2.93	0.46
1:A:1408:ILE:HG22	1:A:1412:LEU:CG	2.42	0.46
1:A:1517:GLY:C	1:A:1519:ASN:H	2.22	0.46
1:A:1561:GLU:HG3	1:A:1562:LYS:N	2.30	0.46
1:B:1365:TYR:CB	1:B:1374:ALA:HB2	2.44	0.46
1:B:1450:PRO:O	1:B:1453:ARG:HB2	2.15	0.46
1:B:1587:TRP:NE1	1:B:1594:PHE:CE2	2.75	0.46
1:C:1395:ILE:HG23	1:C:1396:THR:N	2.29	0.46
1:C:1474:GLU:O	2:E:141:ARG:HG2	2.15	0.46
1:C:1605:GLU:O	1:C:1609:LYS:N	2.48	0.46
2:E:133:LYS:CE	2:E:133:LYS:CA	2.93	0.46
1:A:1232:VAL:O	1:A:1233:HIS:CB	2.63	0.46
1:A:1451:TYR:O	1:A:1455:VAL:HG23	2.16	0.46
1:B:1408:ILE:O	1:B:1412:LEU:HB3	2.16	0.46
1:B:1461:LYS:O	1:B:1465:GLU:HB2	2.15	0.46
1:B:1472:ILE:CG2	1:B:1498:ARG:HE	2.21	0.46
1:B:1561:GLU:HA	1:B:1561:GLU:OE2	2.14	0.46
1:B:1561:GLU:HG3	1:B:1562:LYS:N	2.30	0.46
1:C:1297:GLU:CA	1:C:1300:ILE:HG12	2.45	0.46
2:D:122:VAL:HG23	2:D:123:MET:SD	2.55	0.46
2:D:133:LYS:CE	2:D:133:LYS:CA	2.93	0.46
2:D:179:UNK:C	2:D:181:UNK:N	2.78	0.46
2:E:144:GLU:O	2:E:148:LYS:N	2.45	0.46
1:A:1160:ALA:C	1:A:1162:LYS:N	2.72	0.46
1:A:1431:ASP:C	1:A:1433:THR:N	2.73	0.46
1:A:1461:LYS:O	1:A:1465:GLU:HB2	2.15	0.46
1:A:1491:ASP:O	1:A:1493:ILE:N	2.48	0.46
1:A:1563:ARG:O	1:A:1565:CYS:N	2.48	0.46
1:B:1368:TYR:CE1	1:B:1370:GLU:OE2	2.68	0.46
1:B:1517:GLY:C	1:B:1519:ASN:N	2.73	0.46
1:B:1567:GLY:O	1:B:1571:PHE:CD1	2.68	0.46
1:C:1167:SER:HA	1:C:1171:THR:CB	2.45	0.46
1:C:1431:ASP:C	1:C:1433:THR:N	2.73	0.46
1:C:1469:ASN:ND2	1:C:1498:ARG:NH2	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1530:LYS:HG2	1:C:1531:ASP:N	2.30	0.46
2:D:95:LEU:HA	2:D:99:PRO:HD2	1.97	0.46
2:D:108:GLU:C	2:D:108:GLU:CD	2.83	0.46
2:F:102:ILE:O	2:F:104:LYS:N	2.49	0.46
2:F:114:GLN:CG	2:F:115:GLU:N	2.26	0.46
1:A:1108:TRP:CD1	1:A:1131:ALA:CB	2.93	0.46
1:A:1161:ARG:HH22	1:A:1174:ILE:CG1	2.28	0.46
1:B:1303:LEU:HD12	1:B:1320:LEU:CD1	2.35	0.46
1:B:1358:TRP:CZ3	1:B:1381:HIS:CE1	2.70	0.46
1:B:1395:ILE:HG23	1:B:1396:THR:N	2.29	0.46
1:B:1448:VAL:HA	1:B:1451:TYR:HB3	1.98	0.46
1:C:1137:TYR:HB2	1:C:1169:VAL:CG2	2.46	0.46
1:C:1194:ASN:HD22	1:C:1194:ASN:C	2.24	0.46
1:C:1387:LYS:HD2	1:C:1390:GLN:CD	2.41	0.46
1:C:1425:VAL:CG2	1:C:1426:LEU:H	2.19	0.46
1:C:1450:PRO:O	1:C:1453:ARG:HB2	2.15	0.46
1:C:1600:ILE:HB	1:C:1601:GLN:OE1	2.16	0.46
2:E:148:LYS:C	2:E:151:ILE:HG23	2.41	0.46
1:A:1307:LEU:HD11	1:A:1316:MET:HB3	1.97	0.46
1:A:1326:LYS:C	1:A:1327:PHE:CD1	2.91	0.46
1:A:1335:HIS:ND1	1:A:1336:LEU:N	2.63	0.46
1:B:1301:THR:O	1:B:1301:THR:HG22	2.15	0.46
1:B:1493:ILE:O	1:B:1494:SER:C	2.59	0.46
1:B:1517:GLY:C	1:B:1519:ASN:H	2.22	0.46
1:C:1147:SER:OG	1:C:1148:GLY:N	2.48	0.46
1:C:1258:PHE:C	1:C:1260:CYS:H	2.24	0.46
1:C:1448:VAL:HA	1:C:1451:TYR:HB3	1.97	0.46
1:C:1476:ASP:CG	1:C:1479:ALA:HB3	2.39	0.46
1:C:1491:ASP:O	1:C:1493:ILE:N	2.48	0.46
1:C:1517:GLY:C	1:C:1519:ASN:H	2.23	0.46
2:E:101:SER:O	2:E:105:TRP:HE3	1.99	0.46
2:F:148:LYS:O	2:F:151:ILE:HG23	2.16	0.46
2:F:183:UNK:HA	2:F:188:UNK:CB	2.45	0.46
2:F:191:UNK:O	2:F:194:UNK:N	2.49	0.46
1:A:1578:ARG:CD	1:A:1582:VAL:HB	2.43	0.46
1:A:1578:ARG:NH2	1:A:1583:LEU:HD23	2.28	0.46
1:B:1166:GLU:C	1:B:1167:SER:O	2.59	0.46
1:B:1307:LEU:HD11	1:B:1316:MET:HB3	1.97	0.46
1:B:1446:PRO:O	1:B:1449:LYS:HB2	2.15	0.46
1:C:1254:LYS:CD	1:C:1285:GLU:HG2	2.45	0.46
1:C:1422:LEU:HD13	1:C:1422:LEU:C	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:148:LYS:C	2:D:151:ILE:HG23	2.41	0.46
2:E:94:ARG:NH2	2:E:98:GLU:HG2	2.30	0.46
1:A:1111:LEU:CD2	1:A:1115:GLN:CG	2.94	0.46
1:A:1167:SER:HB3	1:A:1168:TYR:CE1	2.50	0.46
1:A:1244:ALA:HB2	1:A:1275:HIS:ND1	2.14	0.46
1:A:1301:THR:O	1:A:1301:THR:HG22	2.15	0.46
1:A:1315:GLY:O	1:A:1319:GLU:HG2	2.16	0.46
1:A:1387:LYS:HD2	1:A:1390:GLN:CD	2.41	0.46
1:A:1401:VAL:O	1:A:1404:TYR:HD1	1.98	0.46
1:A:1420:ASN:HA	1:A:1423:LEU:CG	2.44	0.46
1:A:1476:ASP:CG	1:A:1479:ALA:HB3	2.40	0.46
1:B:1460:ASN:HB3	1:B:1463:VAL:HG23	1.98	0.46
1:C:1263:GLY:O	1:C:1264:LYS:CB	2.61	0.46
1:C:1362:VAL:CG2	1:C:1377:THR:CB	2.83	0.46
1:C:1499:LEU:HB2	1:C:1511:ALA:CB	2.42	0.46
1:C:1561:GLU:HG3	1:C:1562:LYS:N	2.30	0.46
2:D:185:UNK:CA	2:D:189:UNK:C	2.86	0.46
2:E:137:GLU:HG3	2:E:141:ARG:NH2	2.31	0.46
2:E:147:GLU:OE1	2:E:147:GLU:HA	2.05	0.46
2:E:148:LYS:O	2:E:151:ILE:HG23	2.16	0.46
1:A:1420:ASN:C	1:A:1422:LEU:N	2.72	0.46
1:A:1450:PRO:O	1:A:1453:ARG:HB2	2.15	0.46
1:A:1564:GLU:O	1:A:1568:ALA:N	2.46	0.46
1:B:1214:ALA:O	1:B:1218:TYR:CG	2.69	0.46
1:B:1416:PRO:O	1:B:1419:LEU:HB3	2.14	0.46
1:B:1451:TYR:O	1:B:1455:VAL:HG23	2.16	0.46
1:B:1596:MET:SD	1:B:1599:PHE:CZ	3.09	0.46
1:C:1126:ASP:O	1:C:1156:TYR:CZ	2.68	0.46
1:C:1250:THR:C	1:C:1251:ARG:HG2	2.24	0.46
1:C:1401:VAL:O	1:C:1404:TYR:HD1	1.98	0.46
1:C:1427:SER:HB2	1:C:1428:PRO:HD2	1.88	0.46
1:C:1474:GLU:O	2:E:141:ARG:CD	2.63	0.46
1:C:1475:GLU:OE1	2:E:141:ARG:O	2.34	0.46
1:C:1517:GLY:C	1:C:1519:ASN:N	2.73	0.46
1:C:1565:CYS:O	1:C:1569:CYS:SG	2.74	0.46
1:C:1599:PHE:CE2	1:C:1600:ILE:HG13	2.50	0.46
2:D:155:ILE:N	2:D:155:ILE:CD1	2.78	0.46
2:E:192:UNK:O	2:E:193:UNK:O	2.33	0.46
2:F:133:LYS:HA	2:F:133:LYS:HZ2	1.75	0.46
1:A:1181:ASN:C	1:A:1182:ARG:HG2	2.40	0.46
1:A:1345:ILE:HB	1:A:1368:TYR:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1600:ILE:HB	1:A:1601:GLN:OE1	2.16	0.46
1:B:1111:LEU:CD2	1:B:1115:GLN:CG	2.94	0.46
1:B:1136:SER:HB3	1:B:1141:VAL:CG1	2.39	0.46
1:B:1315:GLY:O	1:B:1319:GLU:HG2	2.16	0.46
1:B:1518:ASN:CG	1:B:1518:ASN:O	2.55	0.46
1:C:1078:ASN:CB	1:C:1098:PHE:CE2	2.99	0.46
1:C:1444:GLN:HE21	2:E:130:LYS:HD2	1.79	0.46
2:D:118:ALA:CA	2:D:121:LYS:HE3	2.41	0.46
2:D:148:LYS:O	2:D:151:ILE:HG23	2.16	0.46
2:D:204:UNK:O	2:D:205:UNK:O	2.34	0.46
2:E:107:GLU:HA	2:E:107:GLU:OE1	2.16	0.46
2:F:102:ILE:C	2:F:104:LYS:N	2.73	0.46
2:F:184:UNK:C	2:F:186:UNK:N	2.79	0.46
1:A:1290:TYR:CZ	1:A:1295:TYR:CE2	3.04	0.46
1:A:1493:ILE:O	1:A:1494:SER:C	2.59	0.46
1:B:1530:LYS:HG2	1:B:1531:ASP:N	2.31	0.46
1:B:1572:THR:CB	1:B:1599:PHE:HD2	2.28	0.46
1:B:1588:ARG:CZ	2:F:195:UNK:CB	2.94	0.46
1:C:1211:TYR:CB	1:C:1231:LEU:HD22	2.43	0.46
1:C:1307:LEU:HD11	1:C:1316:MET:HB3	1.97	0.46
1:C:1378:MET:HE1	1:C:1394:ILE:CD1	2.45	0.46
2:F:137:GLU:HG3	2:F:141:ARG:NH2	2.31	0.46
1:A:1161:ARG:HG2	1:A:1173:LEU:HD22	1.97	0.45
1:A:1326:LYS:HG3	1:A:1327:PHE:CE1	2.51	0.45
1:B:1206:TYR:CE1	1:B:1230:THR:HB	2.50	0.45
1:B:1340:TRP:CD1	1:B:1340:TRP:N	2.84	0.45
1:B:1579:PRO:O	1:B:1583:LEU:HG	2.16	0.45
1:C:1079:THR:O	1:C:1079:THR:CG2	2.56	0.45
1:C:1111:LEU:CD2	1:C:1115:GLN:CG	2.94	0.45
1:C:1111:LEU:CD1	1:C:1129:ILE:HG21	2.45	0.45
1:C:1277:VAL:O	1:C:1279:HIS:CB	2.65	0.45
1:C:1358:TRP:CH2	1:C:1381:HIS:ND1	2.61	0.45
1:C:1629:THR:HG22	1:C:1629:THR:O	2.16	0.45
1:A:1214:ALA:O	1:A:1218:TYR:CG	2.69	0.45
1:A:1244:ALA:N	1:A:1275:HIS:HE1	2.13	0.45
1:A:1255:GLU:C	1:A:1289:TYR:HH	2.24	0.45
1:A:1279:HIS:CE1	1:A:1282:GLU:HB3	2.51	0.45
1:A:1422:LEU:HD13	1:A:1422:LEU:C	2.41	0.45
1:A:1469:ASN:ND2	1:A:1469:ASN:O	2.49	0.45
1:B:1167:SER:CB	1:B:1168:TYR:HD1	2.28	0.45
1:B:1232:VAL:O	1:B:1233:HIS:CB	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1588:ARG:HH11	1:B:1588:ARG:CG	2.14	0.45
1:B:1600:ILE:HB	1:B:1601:GLN:OE1	2.16	0.45
1:C:1240:ALA:C	1:C:1242:ASP:N	2.74	0.45
1:C:1572:THR:CB	1:C:1599:PHE:CD2	2.99	0.45
1:C:1579:PRO:O	1:C:1583:LEU:HG	2.16	0.45
2:D:123:MET:O	2:D:127:TRP:CD2	2.70	0.45
2:E:127:TRP:CA	2:E:130:LYS:HE3	2.41	0.45
2:F:108:GLU:CD	2:F:108:GLU:C	2.84	0.45
1:A:1361:LEU:HD22	1:A:1365:TYR:HE2	1.72	0.45
1:A:1408:ILE:CG2	1:A:1412:LEU:HB2	2.23	0.45
1:A:1408:ILE:HD13	1:A:1422:LEU:HD11	1.98	0.45
1:A:1455:VAL:CG1	1:A:1456:GLN:H	1.95	0.45
1:A:1563:ARG:O	1:A:1564:GLU:C	2.59	0.45
1:B:1230:THR:O	1:B:1231:LEU:CG	2.64	0.45
1:B:1345:ILE:N	1:B:1346:PRO:HD2	2.20	0.45
1:B:1422:LEU:C	1:B:1422:LEU:HD13	2.40	0.45
1:B:1469:ASN:ND2	1:B:1498:ARG:NH2	2.63	0.45
1:B:1588:ARG:HA	1:B:1588:ARG:HD2	1.41	0.45
1:C:1198:ILE:C	1:C:1201:VAL:CG2	2.90	0.45
1:C:1315:GLY:O	1:C:1319:GLU:HG2	2.15	0.45
1:C:1340:TRP:CD1	1:C:1340:TRP:N	2.84	0.45
1:C:1561:GLU:HG3	1:C:1563:ARG:H	1.82	0.45
1:C:1601:GLN:HA	1:C:1604:LYS:CG	2.47	0.45
1:C:1619:LEU:O	1:C:1620:ARG:C	2.59	0.45
2:F:103:ARG:HA	2:F:106:ARG:HB2	1.98	0.45
2:F:148:LYS:C	2:F:151:ILE:HG23	2.41	0.45
1:A:1251:ARG:C	1:A:1253:TRP:H	2.25	0.45
1:A:1340:TRP:CD1	1:A:1340:TRP:N	2.84	0.45
1:A:1490:PHE:CE2	1:A:1492:ASN:OD1	2.66	0.45
1:A:1617:GLU:CG	1:A:1621:LYS:NZ	2.80	0.45
1:A:1619:LEU:O	1:A:1620:ARG:C	2.59	0.45
1:B:1170:GLU:C	1:B:1172:GLU:H	2.25	0.45
1:B:1592:MET:HE2	1:B:1593:ASP:N	2.31	0.45
1:C:1406:ARG:O	1:C:1409:GLN:CB	2.65	0.45
1:A:1181:ASN:O	1:A:1182:ARG:HG2	2.16	0.45
1:A:1244:ALA:H	1:A:1275:HIS:CE1	2.35	0.45
1:A:1280:ALA:C	1:A:1280:ALA:CB	2.77	0.45
1:A:1295:TYR:CE2	1:A:1299:LEU:CB	2.94	0.45
1:A:1455:VAL:O	1:A:1456:GLN:CB	2.65	0.45
1:A:1456:GLN:O	1:A:1456:GLN:HG3	2.08	0.45
1:A:1565:CYS:O	1:A:1569:CYS:SG	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1579:PRO:O	1:A:1583:LEU:HG	2.16	0.45
1:B:1387:LYS:HD2	1:B:1390:GLN:CD	2.41	0.45
1:B:1601:GLN:HA	1:B:1604:LYS:CG	2.46	0.45
1:C:1146:THR:O	1:C:1147:SER:O	2.34	0.45
1:C:1214:ALA:O	1:C:1218:TYR:CG	2.69	0.45
1:C:1561:GLU:CD	1:C:1562:LYS:H	2.25	0.45
1:C:1617:GLU:CG	1:C:1621:LYS:NZ	2.80	0.45
1:A:1162:LYS:HE3	1:A:1162:LYS:HB2	1.71	0.45
1:A:1400:ASN:OD1	1:A:1402:GLU:HB3	2.17	0.45
1:A:1440:SER:C	1:A:1442:VAL:H	2.24	0.45
1:A:1530:LYS:HG2	1:A:1531:ASP:N	2.31	0.45
1:A:1561:GLU:CG	1:A:1562:LYS:N	2.80	0.45
1:A:1601:GLN:HA	1:A:1604:LYS:CG	2.46	0.45
1:B:1333:ARG:HB2	1:B:1360:GLU:HG2	1.94	0.45
1:C:1130:LYS:NZ	1:C:1156:TYR:O	2.50	0.45
1:C:1154:VAL:HG21	1:C:1180:THR:HG21	1.95	0.45
1:C:1408:ILE:O	1:C:1412:LEU:CA	2.64	0.45
1:C:1493:ILE:O	1:C:1494:SER:C	2.59	0.45
1:C:1584:GLU:C	1:C:1586:ALA:H	2.25	0.45
1:A:1122:LYS:CG	1:A:1123:GLU:N	2.70	0.45
1:A:1206:TYR:CE1	1:A:1230:THR:OG1	2.70	0.45
1:A:1333:ARG:HB2	1:A:1360:GLU:HG3	1.90	0.45
1:A:1517:GLY:C	1:A:1519:ASN:N	2.72	0.45
1:A:1598:TYR:HE2	2:F:199:UNK:N	2.15	0.45
1:B:1090:GLY:HA2	1:B:1094:ARG:CZ	2.46	0.45
1:B:1095:ALA:HA	1:B:1098:PHE:CZ	2.52	0.45
1:B:1113:LYS:HG3	1:B:1139:GLU:OE1	2.17	0.45
1:B:1274:LEU:H	1:B:1274:LEU:CD1	2.20	0.45
1:B:1324:TYR:CD2	1:B:1332:MET:HA	2.44	0.45
1:B:1326:LYS:HG3	1:B:1327:PHE:CE1	2.51	0.45
1:B:1329:PRO:O	1:B:1332:MET:N	2.45	0.45
1:B:1408:ILE:HD13	1:B:1422:LEU:HD11	1.98	0.45
1:C:1198:ILE:CG2	1:C:1221:VAL:HG23	2.46	0.45
1:C:1230:THR:O	1:C:1230:THR:HG22	2.17	0.45
1:C:1326:LYS:HG3	1:C:1327:PHE:CE1	2.52	0.45
1:C:1451:TYR:O	1:C:1455:VAL:HG23	2.16	0.45
2:E:126:GLU:OE2	2:E:129:GLU:CD	2.59	0.45
1:A:1204:ARG:O	1:A:1208:GLU:N	2.49	0.45
1:A:1460:ASN:HB3	1:A:1463:VAL:HG23	1.98	0.45
1:A:1592:MET:HE2	1:A:1593:ASP:CA	2.41	0.45
1:A:1601:GLN:OE1	1:A:1601:GLN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1240:ALA:C	1:B:1242:ASP:N	2.74	0.45
1:B:1254:LYS:HD2	1:B:1285:GLU:OE2	2.17	0.45
1:B:1467:LEU:HG	1:B:1471:PHE:HE2	1.82	0.45
1:B:1561:GLU:CD	1:B:1562:LYS:H	2.25	0.45
1:B:1565:CYS:O	1:B:1569:CYS:SG	2.75	0.45
1:B:1591:ILE:HG12	1:B:1592:MET:N	2.31	0.45
1:C:1106:ALA:O	1:C:1107:VAL:O	2.35	0.45
1:C:1145:ASN:OD1	1:C:1179:LYS:NZ	2.36	0.45
1:C:1179:LYS:C	1:C:1182:ARG:NH1	2.75	0.45
1:C:1232:VAL:O	1:C:1233:HIS:CB	2.65	0.45
1:C:1233:HIS:ND1	1:C:1236:GLU:CD	2.75	0.45
1:C:1332:MET:SD	1:C:1360:GLU:CB	3.05	0.45
1:A:1123:GLU:OE1	2:F:7:UNK:CB	2.65	0.45
1:A:1206:TYR:CE1	1:A:1226:ARG:HA	2.52	0.45
1:A:1230:THR:HG22	1:A:1230:THR:O	2.17	0.45
1:A:1230:THR:O	1:A:1231:LEU:CG	2.65	0.45
1:B:1332:MET:SD	1:B:1360:GLU:CB	3.05	0.45
1:B:1413:GLU:OE1	1:B:1413:GLU:HA	2.17	0.45
1:B:1466:SER:O	1:B:1469:ASN:HB3	2.17	0.45
1:B:1518:ASN:O	1:B:1518:ASN:ND2	2.50	0.45
1:B:1601:GLN:OE1	1:B:1601:GLN:N	2.50	0.45
1:C:1161:ARG:HH21	1:C:1170:GLU:CG	2.30	0.45
1:C:1400:ASN:OD1	1:C:1402:GLU:HB3	2.17	0.45
1:C:1444:GLN:HE22	2:E:130:LYS:HD2	1.77	0.45
1:A:1087:GLU:H	1:A:1087:GLU:HG2	1.52	0.45
1:A:1089:ILE:HD12	1:A:1089:ILE:N	2.31	0.45
1:A:1145:ASN:HD22	1:A:1153:LEU:HD22	1.82	0.45
1:A:1332:MET:SD	1:A:1360:GLU:CB	3.05	0.45
1:A:1448:VAL:HA	1:A:1451:TYR:HB3	1.98	0.45
1:A:1503:GLU:HG3	1:A:1504:LEU:H	1.82	0.45
1:B:1161:ARG:HG2	1:B:1173:LEU:HD22	1.97	0.45
1:B:1204:ARG:O	1:B:1208:GLU:N	2.48	0.45
1:B:1332:MET:HG3	1:B:1357:LEU:HD12	1.99	0.45
1:B:1333:ARG:HA	1:B:1360:GLU:CG	2.47	0.45
1:B:1456:GLN:O	1:B:1456:GLN:HG3	2.07	0.45
1:B:1561:GLU:CG	1:B:1562:LYS:N	2.80	0.45
1:B:1598:TYR:CA	1:C:1584:GLU:OE2	2.61	0.45
1:C:1440:SER:C	1:C:1442:VAL:H	2.25	0.45
2:F:123:MET:O	2:F:127:TRP:CD2	2.70	0.45
2:F:126:GLU:OE2	2:F:129:GLU:CD	2.59	0.45
1:A:1237:TYR:O	1:A:1237:TYR:CG	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1261:VAL:HG13	1:A:1295:TYR:CE1	2.52	0.44
1:A:1362:VAL:HG23	1:A:1377:THR:HG21	1.99	0.44
1:B:1617:GLU:CG	1:B:1621:LYS:NZ	2.80	0.44
1:C:1166:GLU:HB2	1:C:1168:TYR:OH	2.17	0.44
1:C:1167:SER:CA	1:C:1171:THR:H	2.28	0.44
2:D:174:UNK:CA	2:D:175:UNK:CB	2.95	0.44
2:E:189:UNK:CA	2:E:194:UNK:CB	2.96	0.44
1:A:1085:LEU:HD11	1:A:1111:LEU:HG	1.99	0.44
1:A:1111:LEU:CD1	1:A:1125:ILE:HG13	2.44	0.44
1:A:1333:ARG:HB2	1:A:1360:GLU:HG2	1.94	0.44
1:A:1408:ILE:O	1:A:1412:LEU:CA	2.64	0.44
1:A:1452:LEU:HD13	1:A:1467:LEU:HD13	1.99	0.44
1:A:1584:GLU:C	1:A:1586:ALA:H	2.25	0.44
1:A:1592:MET:HG2	1:A:1593:ASP:H	1.81	0.44
1:B:1137:TYR:HB3	1:B:1172:GLU:HG2	1.99	0.44
1:B:1235:GLY:O	1:B:1238:GLN:HB2	2.17	0.44
1:B:1326:LYS:C	1:B:1327:PHE:CD1	2.92	0.44
1:B:1455:VAL:O	1:B:1456:GLN:CB	2.65	0.44
2:D:91:GLN:NE2	2:D:94:ARG:HD2	2.32	0.44
2:D:126:GLU:OE2	2:D:129:GLU:CD	2.59	0.44
1:A:1084:VAL:O	1:A:1086:ILE:N	2.49	0.44
1:A:1324:TYR:CD2	1:A:1332:MET:HA	2.43	0.44
1:A:1395:ILE:CG2	1:A:1396:THR:N	2.81	0.44
1:B:1130:LYS:HZ3	1:B:1155:LYS:CG	2.29	0.44
1:B:1144:ALA:CA	1:B:1149:ASN:HB2	2.46	0.44
1:B:1245:ARG:O	1:B:1246:LYS:CB	2.66	0.44
1:B:1274:LEU:O	1:B:1277:VAL:CG2	2.65	0.44
1:B:1345:ILE:HB	1:B:1368:TYR:CE2	2.51	0.44
1:B:1584:GLU:C	1:B:1586:ALA:H	2.25	0.44
1:C:1274:LEU:O	1:C:1277:VAL:CG2	2.65	0.44
1:C:1420:ASN:HA	1:C:1423:LEU:CG	2.44	0.44
2:D:48:UNK:C	2:D:50:UNK:N	2.80	0.44
2:D:94:ARG:NE	2:D:98:GLU:OE1	2.47	0.44
1:A:1095:ALA:HA	1:A:1098:PHE:CZ	2.52	0.44
1:A:1136:SER:HB2	1:A:1172:GLU:HB3	1.99	0.44
1:A:1274:LEU:O	1:A:1277:VAL:CG2	2.65	0.44
1:A:1569:CYS:C	1:A:1571:PHE:N	2.74	0.44
1:B:1086:ILE:HG22	1:B:1087:GLU:HG3	1.99	0.44
1:B:1133:ASP:HA	1:B:1134:PRO:HA	1.57	0.44
1:B:1163:LYS:O	2:D:38:UNK:N	2.48	0.44
1:B:1251:ARG:C	1:B:1253:TRP:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1333:ARG:HB2	1:B:1360:GLU:HG3	1.90	0.44
1:B:1420:ASN:C	1:B:1422:LEU:N	2.73	0.44
1:B:1588:ARG:NH1	2:F:195:UNK:CB	2.81	0.44
1:C:1251:ARG:C	1:C:1253:TRP:H	2.25	0.44
1:C:1258:PHE:CZ	1:C:1293:ARG:CZ	3.01	0.44
1:C:1297:GLU:HA	1:C:1297:GLU:OE1	2.18	0.44
1:C:1460:ASN:HB3	1:C:1463:VAL:HG23	1.98	0.44
1:C:1469:ASN:HD22	1:C:1469:ASN:C	2.21	0.44
1:C:1566:PHE:CE2	2:E:181:UNK:CA	3.00	0.44
2:E:123:MET:O	2:E:127:TRP:CD2	2.70	0.44
2:F:7:UNK:O	2:F:8:UNK:C	2.66	0.44
2:F:94:ARG:HH21	2:F:94:ARG:CG	2.30	0.44
1:A:1160:ALA:C	1:A:1162:LYS:H	2.25	0.44
1:A:1206:TYR:CD1	1:A:1230:THR:HB	2.52	0.44
1:A:1234:LEU:C	1:A:1236:GLU:N	2.71	0.44
1:A:1474:GLU:HG3	1:A:1476:ASP:H	1.82	0.44
1:B:1254:LYS:HA	1:B:1289:TYR:CE2	2.52	0.44
1:B:1291:GLN:O	1:B:1294:GLY:N	2.43	0.44
1:B:1400:ASN:OD1	1:B:1402:GLU:HB3	2.17	0.44
1:B:1481:ARG:NH1	1:B:1510:ILE:HD12	2.31	0.44
1:C:1085:LEU:HD12	1:C:1085:LEU:O	2.18	0.44
1:C:1237:TYR:O	1:C:1237:TYR:CG	2.70	0.44
1:C:1254:LYS:CD	1:C:1285:GLU:CG	2.83	0.44
1:C:1420:ASN:C	1:C:1422:LEU:N	2.73	0.44
1:C:1452:LEU:HD13	1:C:1467:LEU:HD13	1.99	0.44
1:A:1170:GLU:C	1:A:1172:GLU:H	2.25	0.44
1:A:1206:TYR:CG	1:A:1226:ARG:HG3	2.52	0.44
1:A:1297:GLU:OE1	1:A:1297:GLU:HA	2.18	0.44
1:A:1371:TYR:CB	1:A:1394:ILE:HG22	2.43	0.44
1:A:1518:ASN:O	1:A:1518:ASN:ND2	2.50	0.44
1:A:1561:GLU:HG3	1:A:1563:ARG:H	1.82	0.44
1:B:1279:HIS:HD2	1:B:1280:ALA:N	1.96	0.44
1:B:1330:GLN:HG3	1:B:1331:LYS:HG3	2.00	0.44
1:B:1332:MET:HB3	1:B:1332:MET:HE3	1.76	0.44
1:B:1474:GLU:HG3	1:B:1476:ASP:H	1.83	0.44
1:B:1561:GLU:HG3	1:B:1563:ARG:H	1.82	0.44
1:B:1594:PHE:O	1:B:1596:MET:HE2	2.16	0.44
1:C:1132:ASP:O	1:C:1133:ASP:CB	2.65	0.44
1:C:1174:ILE:N	1:C:1174:ILE:CD1	2.81	0.44
1:C:1198:ILE:CG2	1:C:1221:VAL:CG2	2.95	0.44
1:C:1455:VAL:O	1:C:1456:GLN:CB	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1459:ASN:O	1:C:1489:ASN:HB3	2.18	0.44
1:C:1601:GLN:OE1	1:C:1601:GLN:N	2.50	0.44
1:A:1154:VAL:HG13	1:A:1181:ASN:HD21	1.82	0.44
1:A:1165:ARG:HG3	1:A:1165:ARG:O	2.18	0.44
1:A:1411:TYR:HA	1:A:1415:LYS:HB2	1.90	0.44
1:A:1480:LEU:HA	1:A:1483:SER:HB3	2.00	0.44
1:B:1237:TYR:O	1:B:1237:TYR:CG	2.70	0.44
1:B:1440:SER:C	1:B:1442:VAL:H	2.25	0.44
1:B:1480:LEU:HA	1:B:1483:SER:HB3	2.00	0.44
1:B:1548:GLU:CD	1:B:1548:GLU:N	2.76	0.44
1:B:1619:LEU:O	1:B:1620:ARG:C	2.59	0.44
1:C:1095:ALA:HA	1:C:1098:PHE:CZ	2.52	0.44
1:C:1187:GLU:O	1:C:1190:ILE:HG22	2.18	0.44
1:C:1561:GLU:CG	1:C:1562:LYS:N	2.80	0.44
2:D:103:ARG:CZ	2:D:106:ARG:HG3	2.48	0.44
2:E:105:TRP:HA	2:E:108:GLU:CG	2.48	0.44
1:A:1090:GLY:HA2	1:A:1094:ARG:CZ	2.48	0.44
1:A:1155:LYS:O	1:A:1158:GLN:HB3	2.18	0.44
1:A:1321:ALA:C	1:A:1323:LEU:N	2.76	0.44
1:A:1333:ARG:CB	1:A:1360:GLU:HG2	2.48	0.44
1:A:1469:ASN:ND2	1:A:1498:ARG:HH12	2.16	0.44
1:A:1481:ARG:NH1	1:A:1510:ILE:HD12	2.32	0.44
1:A:1527:LEU:HD21	1:A:1540:TYR:HH	1.82	0.44
1:B:1163:LYS:O	1:B:1164:ALA:CB	2.64	0.44
1:B:1177:LEU:O	1:B:1180:THR:N	2.51	0.44
1:B:1297:GLU:OE1	1:B:1297:GLU:HA	2.18	0.44
1:B:1469:ASN:ND2	1:B:1498:ARG:HH12	2.15	0.44
1:C:1345:ILE:HB	1:C:1368:TYR:CE2	2.52	0.44
1:C:1413:GLU:OE1	1:C:1413:GLU:HA	2.18	0.44
1:C:1518:ASN:O	1:C:1518:ASN:ND2	2.50	0.44
2:F:196:UNK:O	2:F:197:UNK:O	2.36	0.44
1:A:1235:GLY:O	1:A:1238:GLN:HB2	2.18	0.44
1:A:1430:LEU:HD12	1:A:1431:ASP:H	1.83	0.44
1:A:1459:ASN:O	1:A:1489:ASN:HB3	2.18	0.44
1:B:1569:CYS:C	1:B:1571:PHE:N	2.74	0.44
1:B:1600:ILE:C	1:B:1601:GLN:OE1	2.61	0.44
1:C:1280:ALA:C	1:C:1282:GLU:N	2.74	0.44
1:C:1281:ASP:OD1	1:C:1281:ASP:C	2.61	0.44
1:C:1516:LYS:O	1:C:1517:GLY:C	2.61	0.44
1:C:1548:GLU:CD	1:C:1548:GLU:N	2.76	0.44
1:C:1574:TYR:O	1:C:1575:ASP:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1592:MET:HE2	1:C:1593:ASP:H	1.82	0.44
1:C:1596:MET:HE3	1:C:1597:PRO:CD	2.47	0.44
1:C:1609:LYS:HG2	1:C:1612:LYS:CD	2.44	0.44
1:A:1159:MET:SD	1:A:1162:LYS:CB	3.04	0.43
1:A:1175:PHE:HE1	1:A:1200:GLN:HB3	1.82	0.43
1:A:1204:ARG:NH1	1:A:1207:ASP:OD2	2.51	0.43
1:A:1416:PRO:HD3	2:F:130:LYS:CD	2.37	0.43
1:A:1425:VAL:CG2	1:A:1426:LEU:H	2.18	0.43
1:B:1390:GLN:HB2	1:B:1390:GLN:HE21	1.64	0.43
1:C:1155:LYS:O	1:C:1158:GLN:HB3	2.18	0.43
1:C:1210:MET:HE3	1:C:1212:ASP:OD1	2.18	0.43
1:C:1469:ASN:ND2	1:C:1498:ARG:HH12	2.16	0.43
1:C:1477:TYR:O	1:C:1481:ARG:HB2	2.19	0.43
1:C:1566:PHE:CD2	2:E:181:UNK:HA	2.52	0.43
1:C:1569:CYS:C	1:C:1571:PHE:N	2.74	0.43
1:C:1590:ASN:O	1:C:1591:ILE:C	2.61	0.43
2:D:191:UNK:C	2:D:196:UNK:CB	2.95	0.43
1:A:1083:GLN:NE2	1:A:1106:ALA:HB3	2.32	0.43
1:A:1181:ASN:O	1:A:1182:ARG:NE	2.52	0.43
1:A:1187:GLU:O	1:A:1190:ILE:HG22	2.18	0.43
1:A:1413:GLU:OE1	1:A:1413:GLU:HA	2.18	0.43
1:B:1082:VAL:CG1	1:B:1083:GLN:N	2.69	0.43
1:B:1085:LEU:H	1:B:1085:LEU:HG	1.69	0.43
1:B:1154:VAL:HG11	1:B:1183:LEU:HB3	2.01	0.43
1:B:1406:ARG:O	1:B:1409:GLN:CB	2.64	0.43
1:B:1435:ALA:O	1:B:1439:PHE:HD2	2.01	0.43
1:C:1395:ILE:CG2	1:C:1396:THR:N	2.81	0.43
1:C:1434:ARG:HB2	2:E:7:UNK:CB	2.48	0.43
1:C:1467:LEU:HG	1:C:1471:PHE:HE2	1.82	0.43
1:C:1474:GLU:HG3	1:C:1476:ASP:H	1.82	0.43
1:C:1609:LYS:C	1:C:1611:ASP:N	2.76	0.43
1:C:1619:LEU:HD22	1:C:1619:LEU:N	2.33	0.43
2:F:147:GLU:OE1	2:F:147:GLU:HA	2.05	0.43
1:A:1466:SER:O	1:A:1469:ASN:HB3	2.18	0.43
1:A:1477:TYR:O	1:A:1481:ARG:HB2	2.19	0.43
1:A:1477:TYR:CD1	1:A:1478:GLN:N	2.87	0.43
1:B:1230:THR:HG22	1:B:1230:THR:O	2.17	0.43
1:C:1137:TYR:O	1:C:1138:MET:C	2.61	0.43
1:C:1145:ASN:HD22	1:C:1150:TRP:CD1	2.36	0.43
1:C:1321:ALA:C	1:C:1323:LEU:N	2.76	0.43
1:C:1563:ARG:NH2	2:E:182:UNK:N	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1333:ARG:HA	1:A:1360:GLU:CG	2.47	0.43
1:B:1395:ILE:CG2	1:B:1396:THR:N	2.81	0.43
1:B:1435:ALA:HB1	1:B:1439:PHE:HE2	1.84	0.43
1:C:1270:GLN:HG3	1:C:1298:GLU:CD	2.44	0.43
1:C:1572:THR:OG1	1:C:1599:PHE:CD2	2.61	0.43
1:C:1578:ARG:NH2	1:C:1583:LEU:HD23	2.28	0.43
1:A:1193:PRO:O	1:A:1194:ASN:O	2.36	0.43
1:A:1345:ILE:HG21	1:A:1368:TYR:HD2	1.83	0.43
1:A:1414:PHE:CD1	2:F:127:TRP:CB	3.01	0.43
1:A:1516:LYS:O	1:A:1517:GLY:C	2.61	0.43
1:A:1561:GLU:CD	1:A:1562:LYS:H	2.25	0.43
1:A:1580:ASP:OD1	1:C:1605:GLU:CG	2.67	0.43
1:B:1111:LEU:HD21	1:B:1115:GLN:HG2	2.00	0.43
1:B:1190:ILE:CD1	1:B:1216:LEU:HG	2.49	0.43
1:B:1298:GLU:OE1	1:B:1298:GLU:HA	2.19	0.43
1:B:1303:LEU:C	1:B:1305:ALA:H	2.27	0.43
1:B:1408:ILE:O	1:B:1412:LEU:CA	2.64	0.43
1:B:1477:TYR:CD1	1:B:1478:GLN:N	2.87	0.43
1:C:1333:ARG:HA	1:C:1360:GLU:CG	2.48	0.43
1:C:1419:LEU:HD23	1:C:1447:LEU:HD13	2.01	0.43
1:C:1455:VAL:CG1	1:C:1456:GLN:N	2.64	0.43
1:C:1480:LEU:HA	1:C:1483:SER:HB3	2.00	0.43
2:D:185:UNK:CA	2:D:189:UNK:O	2.54	0.43
2:E:91:GLN:O	2:E:92:ALA:HB2	2.18	0.43
1:A:1298:GLU:OE1	1:A:1298:GLU:HA	2.19	0.43
1:A:1436:VAL:HG11	1:A:1462:SER:HB2	2.00	0.43
1:A:1467:LEU:HG	1:A:1471:PHE:HE2	1.82	0.43
1:B:1083:GLN:NE2	1:B:1107:VAL:HG23	2.34	0.43
1:B:1145:ASN:HA	1:B:1153:LEU:HD22	2.01	0.43
1:B:1155:LYS:O	1:B:1158:GLN:HB3	2.18	0.43
1:B:1459:ASN:O	1:B:1489:ASN:HB3	2.18	0.43
1:B:1503:GLU:HG3	1:B:1504:LEU:H	1.82	0.43
1:C:1145:ASN:CG	1:C:1179:LYS:HZ1	2.22	0.43
1:C:1190:ILE:HG12	1:C:1216:LEU:CG	2.49	0.43
1:C:1430:LEU:HD12	1:C:1431:ASP:H	1.84	0.43
1:C:1477:TYR:CD1	1:C:1478:GLN:N	2.87	0.43
1:A:1183:LEU:CG	1:A:1184:ALA:N	2.82	0.43
1:A:1302:MET:C	1:A:1302:MET:SD	3.02	0.43
1:A:1303:LEU:C	1:A:1305:ALA:N	2.76	0.43
1:A:1352:ALA:C	1:A:1354:GLN:N	2.77	0.43
1:A:1590:ASN:HB2	1:A:1592:MET:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1626:ALA:O	1:A:1629:THR:O	2.36	0.43
1:B:1135:SER:O	1:B:1136:SER:O	2.36	0.43
1:B:1189:PHE:O	1:B:1217:LEU:CD2	2.66	0.43
1:B:1411:TYR:HA	1:B:1415:LYS:HB2	1.89	0.43
1:B:1452:LEU:HD13	1:B:1467:LEU:HD13	1.99	0.43
1:B:1458:HIS:C	1:B:1460:ASN:N	2.77	0.43
1:B:1578:ARG:NH2	1:B:1583:LEU:HD23	2.28	0.43
1:B:1619:LEU:HD22	1:B:1619:LEU:N	2.32	0.43
1:C:1091:ASN:HD22	1:C:1091:ASN:HA	1.51	0.43
1:C:1157:LEU:HD12	1:C:1173:LEU:CD1	2.48	0.43
1:C:1159:MET:HA	1:C:1162:LYS:HD3	2.00	0.43
1:C:1193:PRO:O	1:C:1194:ASN:CB	2.67	0.43
1:C:1236:GLU:C	1:C:1238:GLN:N	2.77	0.43
1:C:1348:VAL:O	1:C:1352:ALA:N	2.52	0.43
1:C:1467:LEU:O	1:C:1470:LEU:HB2	2.19	0.43
1:C:1596:MET:SD	1:C:1597:PRO:CD	3.01	0.43
2:E:98:GLU:C	2:E:101:SER:HB3	2.43	0.43
2:E:145:GLN:O	2:E:149:ASN:ND2	2.52	0.43
1:A:1348:VAL:O	1:A:1352:ALA:N	2.52	0.43
1:A:1376:ILE:HA	1:A:1379:MET:HG3	2.01	0.43
1:A:1435:ALA:O	1:A:1439:PHE:HD2	2.01	0.43
1:B:1168:TYR:CA	1:B:1172:GLU:OE2	2.63	0.43
1:B:1204:ARG:NH1	1:B:1207:ASP:OD2	2.51	0.43
1:B:1244:ALA:N	1:B:1275:HIS:HE1	2.16	0.43
1:B:1295:TYR:O	1:B:1296:PHE:C	2.62	0.43
1:B:1302:MET:C	1:B:1302:MET:SD	3.02	0.43
1:B:1477:TYR:O	1:B:1481:ARG:HB2	2.19	0.43
1:B:1520:ARG:CD	1:B:1520:ARG:H	2.32	0.43
1:B:1583:LEU:O	1:B:1594:PHE:CZ	2.70	0.43
1:C:1190:ILE:HG22	1:C:1191:ASN:ND2	2.34	0.43
1:C:1332:MET:SD	1:C:1360:GLU:HB2	2.59	0.43
1:C:1376:ILE:HA	1:C:1379:MET:HG3	2.01	0.43
1:C:1469:ASN:ND2	1:C:1469:ASN:O	2.49	0.43
2:D:201:UNK:O	2:D:202:UNK:C	2.66	0.43
1:A:1082:VAL:C	1:A:1084:VAL:N	2.76	0.43
1:A:1085:LEU:HG	1:A:1085:LEU:H	1.63	0.43
1:A:1292:ASP:HA	2:F:97:GLN:CD	2.44	0.43
1:A:1332:MET:HG3	1:A:1357:LEU:HD12	1.99	0.43
1:A:1609:LYS:HA	1:A:1612:LYS:CG	2.48	0.43
1:A:1619:LEU:N	1:A:1619:LEU:HD22	2.32	0.43
1:B:1198:ILE:HG23	1:B:1201:VAL:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1243:GLY:C	1:B:1245:ARG:H	2.26	0.43
1:B:1436:VAL:HG11	1:B:1462:SER:HB2	2.00	0.43
1:C:1190:ILE:HG21	1:C:1216:LEU:HD21	2.01	0.43
1:C:1588:ARG:HH21	2:D:193:UNK:HA	1.75	0.43
2:D:173:UNK:C	2:D:176:UNK:N	2.82	0.43
2:E:108:GLU:OE1	2:E:108:GLU:O	2.37	0.43
2:F:91:GLN:HE21	2:F:91:GLN:HB3	1.67	0.43
1:A:1111:LEU:HD21	1:A:1115:GLN:HG2	1.99	0.43
1:A:1230:THR:O	1:A:1231:LEU:HG	2.19	0.43
1:A:1243:GLY:C	1:A:1245:ARG:H	2.26	0.43
1:A:1279:HIS:NE2	1:A:1282:GLU:HB3	2.34	0.43
1:A:1467:LEU:O	1:A:1470:LEU:HB2	2.18	0.43
1:A:1554:LEU:HD23	1:A:1582:VAL:CG1	2.49	0.43
1:B:1082:VAL:C	1:B:1084:VAL:N	2.76	0.43
1:B:1253:TRP:HZ3	1:B:1276:ILE:CG2	2.04	0.43
1:B:1303:LEU:C	1:B:1305:ALA:N	2.76	0.43
1:B:1362:VAL:HG23	1:B:1377:THR:HG21	1.99	0.43
1:B:1590:ASN:HB2	1:B:1592:MET:O	2.19	0.43
1:C:1371:TYR:CB	1:C:1394:ILE:HG22	2.43	0.43
1:C:1377:THR:C	1:C:1381:HIS:HD2	2.27	0.43
1:C:1466:SER:O	1:C:1469:ASN:HB3	2.18	0.43
2:F:195:UNK:O	2:F:197:UNK:N	2.49	0.43
1:A:1157:LEU:HD13	1:A:1177:LEU:HD21	2.00	0.42
1:A:1283:LEU:CD2	1:A:1313:HIS:CE1	3.00	0.42
1:A:1580:ASP:OD2	1:C:1605:GLU:HG3	2.17	0.42
1:B:1206:TYR:CE1	1:B:1226:ARG:CA	3.02	0.42
1:B:1535:LYS:HZ1	1:B:1563:ARG:HH12	1.63	0.42
1:C:1230:THR:C	1:C:1231:LEU:HG	2.43	0.42
1:C:1298:GLU:OE1	1:C:1298:GLU:HA	2.19	0.42
1:C:1329:PRO:HB2	1:C:1330:GLN:H	1.62	0.42
1:C:1330:GLN:HG3	1:C:1331:LYS:HG3	2.01	0.42
2:F:134:ASP:C	2:F:137:GLU:HB2	2.44	0.42
1:A:1344:ASN:OD1	1:A:1345:ILE:N	2.52	0.42
1:A:1443:LYS:O	1:A:1444:GLN:HG3	2.20	0.42
1:A:1520:ARG:H	1:A:1520:ARG:CD	2.32	0.42
1:B:1332:MET:SD	1:B:1360:GLU:HB2	2.59	0.42
1:B:1333:ARG:CG	1:B:1360:GLU:HG3	2.49	0.42
1:B:1467:LEU:O	1:B:1470:LEU:HB2	2.19	0.42
1:B:1516:LYS:O	1:B:1517:GLY:C	2.61	0.42
1:C:1084:VAL:C	1:C:1086:ILE:H	2.26	0.42
1:C:1243:GLY:C	1:C:1245:ARG:H	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1250:THR:C	1:C:1251:ARG:CG	2.89	0.42
1:C:1435:ALA:O	1:C:1439:PHE:HD2	2.01	0.42
1:C:1524:SER:C	1:C:1526:GLU:N	2.77	0.42
1:C:1597:PRO:C	1:C:1598:TYR:CD2	2.97	0.42
1:C:1600:ILE:C	1:C:1601:GLN:OE1	2.62	0.42
2:E:134:ASP:C	2:E:137:GLU:HB2	2.44	0.42
2:F:190:UNK:C	2:F:192:UNK:N	2.79	0.42
1:A:1167:SER:CB	1:A:1168:TYR:CD1	3.03	0.42
1:A:1258:PHE:HB2	1:A:1289:TYR:CZ	2.27	0.42
1:A:1481:ARG:NH1	1:A:1510:ILE:HG13	2.35	0.42
1:A:1548:GLU:CD	1:A:1548:GLU:N	2.75	0.42
1:B:1130:LYS:HZ3	1:B:1155:LYS:CD	2.31	0.42
1:B:1187:GLU:O	1:B:1190:ILE:HG22	2.19	0.42
1:B:1387:LYS:O	1:B:1388:GLU:C	2.62	0.42
1:B:1401:VAL:HA	1:B:1404:TYR:HD1	1.83	0.42
1:B:1606:TYR:C	1:B:1608:THR:H	2.27	0.42
1:C:1082:VAL:C	1:C:1084:VAL:N	2.76	0.42
1:C:1141:VAL:HG11	1:C:1168:TYR:O	2.19	0.42
1:C:1170:GLU:C	1:C:1172:GLU:H	2.25	0.42
1:C:1276:ILE:HG13	1:C:1277:VAL:N	2.34	0.42
1:C:1302:MET:C	1:C:1302:MET:SD	3.02	0.42
1:C:1520:ARG:H	1:C:1520:ARG:CD	2.32	0.42
1:C:1587:TRP:N	1:C:1587:TRP:CD1	2.86	0.42
2:D:137:GLU:HG3	2:D:141:ARG:HH12	1.84	0.42
2:F:145:GLN:O	2:F:149:ASN:ND2	2.52	0.42
1:A:1111:LEU:HD13	1:A:1111:LEU:C	2.45	0.42
1:A:1175:PHE:O	1:A:1178:ALA:HB3	2.20	0.42
1:A:1181:ASN:CG	1:A:1182:ARG:N	2.68	0.42
1:A:1303:LEU:H	1:A:1303:LEU:HD23	1.85	0.42
1:B:1340:TRP:CZ3	1:B:1367:LYS:HD2	2.54	0.42
1:B:1345:ILE:HG21	1:B:1368:TYR:HD2	1.83	0.42
1:B:1430:LEU:HD12	1:B:1431:ASP:H	1.84	0.42
1:C:1254:LYS:HZ2	1:C:1285:GLU:HG2	1.85	0.42
1:C:1282:GLU:OE2	1:C:1285:GLU:CB	2.62	0.42
1:C:1344:ASN:OD1	1:C:1345:ILE:N	2.52	0.42
1:C:1370:GLU:HA	1:C:1370:GLU:OE1	2.19	0.42
1:C:1401:VAL:HG22	1:C:1429:ARG:HH21	1.84	0.42
1:C:1436:VAL:HG11	1:C:1462:SER:HB2	2.00	0.42
1:C:1535:LYS:HZ1	1:C:1563:ARG:HH12	1.63	0.42
2:E:1:UNK:C	2:E:3:UNK:N	2.80	0.42
1:A:1244:ALA:CA	1:A:1275:HIS:CE1	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1303:LEU:C	1:A:1305:ALA:H	2.27	0.42
1:A:1330:GLN:HG3	1:A:1331:LYS:HG3	2.00	0.42
1:A:1340:TRP:CZ3	1:A:1367:LYS:HD2	2.54	0.42
1:A:1370:GLU:OE1	1:A:1370:GLU:HA	2.20	0.42
1:A:1377:THR:C	1:A:1381:HIS:HD2	2.27	0.42
1:A:1387:LYS:O	1:A:1388:GLU:C	2.62	0.42
1:A:1524:SER:C	1:A:1526:GLU:N	2.78	0.42
1:A:1600:ILE:C	1:A:1601:GLN:OE1	2.61	0.42
1:B:1083:GLN:O	1:B:1086:ILE:HG13	2.19	0.42
1:B:1112:ALA:CB	1:B:1140:VAL:HG21	2.46	0.42
1:C:1161:ARG:HH22	1:C:1195:ASN:HB3	1.81	0.42
1:C:1167:SER:O	1:C:1171:THR:C	2.61	0.42
1:C:1204:ARG:NH1	1:C:1207:ASP:OD2	2.52	0.42
1:C:1233:HIS:HD1	1:C:1236:GLU:CD	2.27	0.42
1:C:1254:LYS:HD2	1:C:1285:GLU:OE2	2.18	0.42
1:C:1503:GLU:HG3	1:C:1504:LEU:H	1.82	0.42
1:C:1599:PHE:H	1:C:1599:PHE:HD1	1.62	0.42
1:C:1606:TYR:C	1:C:1608:THR:H	2.27	0.42
2:F:94:ARG:HG2	2:F:94:ARG:HH21	1.84	0.42
2:F:162:GLN:CB	2:F:166:ALA:CB	2.96	0.42
1:A:1256:VAL:CA	1:A:1289:TYR:OH	2.68	0.42
1:A:1332:MET:SD	1:A:1360:GLU:HB2	2.59	0.42
1:A:1347:LYS:HD3	1:A:1347:LYS:C	2.44	0.42
1:A:1521:TRP:CZ3	1:A:1525:VAL:HG11	2.55	0.42
1:A:1592:MET:O	1:A:1593:ASP:OD1	2.37	0.42
1:B:1279:HIS:C	1:B:1279:HIS:CG	2.97	0.42
1:B:1333:ARG:CA	1:B:1360:GLU:CG	2.98	0.42
1:B:1370:GLU:OE1	1:B:1370:GLU:HA	2.20	0.42
1:B:1412:LEU:HA	1:B:1419:LEU:HD13	2.00	0.42
1:B:1466:SER:O	1:B:1470:LEU:N	2.52	0.42
1:B:1469:ASN:ND2	1:B:1498:ARG:NH1	2.68	0.42
1:B:1513:TYR:O	1:B:1516:LYS:N	2.53	0.42
1:C:1303:LEU:C	1:C:1305:ALA:H	2.27	0.42
1:C:1592:MET:HG2	1:C:1593:ASP:N	2.34	0.42
1:C:1596:MET:SD	1:C:1599:PHE:CZ	3.12	0.42
2:E:114:GLN:O	2:E:115:GLU:C	2.63	0.42
1:A:1165:ARG:NH2	1:A:1194:ASN:OD1	2.52	0.42
1:B:1111:LEU:C	1:B:1111:LEU:HD13	2.45	0.42
1:B:1175:PHE:O	1:B:1178:ALA:HB3	2.19	0.42
1:B:1340:TRP:H	1:B:1340:TRP:HD1	1.68	0.42
1:B:1555:GLN:OE1	1:B:1585:THR:CG2	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1609:LYS:HA	1:B:1612:LYS:CG	2.49	0.42
1:C:1161:ARG:NH1	1:C:1195:ASN:HB3	2.34	0.42
1:C:1332:MET:HG3	1:C:1357:LEU:HD12	1.99	0.42
1:C:1345:ILE:HG21	1:C:1368:TYR:HD2	1.84	0.42
1:C:1347:LYS:HD3	1:C:1347:LYS:C	2.44	0.42
1:C:1414:PHE:CD2	2:E:123:MET:HG3	2.55	0.42
1:C:1445:LEU:HD23	1:C:1445:LEU:C	2.45	0.42
1:C:1469:ASN:ND2	1:C:1498:ARG:NH1	2.68	0.42
1:C:1609:LYS:HA	1:C:1612:LYS:CG	2.48	0.42
2:D:144:GLU:O	2:D:148:LYS:N	2.45	0.42
1:A:1109:SER:HA	1:A:1134:PRO:HG3	2.02	0.42
1:A:1130:LYS:HZ1	1:A:1155:LYS:CG	2.30	0.42
1:A:1274:LEU:H	1:A:1274:LEU:CD1	2.20	0.42
1:A:1295:TYR:HD2	1:A:1299:LEU:HD22	1.83	0.42
1:A:1435:ALA:HB1	1:A:1439:PHE:HE2	1.84	0.42
1:A:1458:HIS:C	1:A:1460:ASN:N	2.77	0.42
1:A:1548:GLU:C	1:A:1550:ALA:N	2.78	0.42
1:B:1329:PRO:HB2	1:B:1330:GLN:H	1.62	0.42
1:B:1347:LYS:HD3	1:B:1347:LYS:C	2.44	0.42
1:C:1111:LEU:C	1:C:1111:LEU:HD13	2.45	0.42
1:C:1303:LEU:C	1:C:1305:ALA:N	2.77	0.42
1:C:1325:SER:OG	1:C:1326:LYS:HE3	2.20	0.42
1:C:1626:ALA:O	1:C:1630:GLN:HB2	2.19	0.42
1:A:1350:ARG:C	1:A:1354:GLN:HB3	2.45	0.42
1:A:1456:GLN:HE22	1:A:1467:LEU:CD2	2.33	0.42
1:A:1466:SER:O	1:A:1470:LEU:N	2.52	0.42
1:A:1592:MET:HG2	1:A:1593:ASP:N	2.34	0.42
1:A:1606:TYR:C	1:A:1608:THR:H	2.27	0.42
1:B:1082:VAL:C	1:B:1084:VAL:H	2.28	0.42
1:B:1147:SER:OG	1:B:1148:GLY:N	2.53	0.42
1:B:1336:LEU:C	1:B:1338:LEU:N	2.76	0.42
1:B:1368:TYR:HD1	1:B:1368:TYR:O	2.03	0.42
1:C:1188:GLU:CD	1:C:1191:ASN:HB2	2.32	0.42
1:C:1189:PHE:O	1:C:1193:PRO:HG3	2.20	0.42
1:C:1332:MET:HB3	1:C:1332:MET:HE3	1.76	0.42
1:C:1521:TRP:CZ3	1:C:1525:VAL:HG11	2.55	0.42
2:E:119:ALA:HA	2:E:123:MET:HE2	2.02	0.42
1:A:1276:ILE:HG13	1:A:1277:VAL:N	2.34	0.42
1:A:1513:TYR:O	1:A:1516:LYS:N	2.53	0.42
1:B:1213:ALA:O	1:B:1217:LEU:HB2	2.20	0.42
1:C:1333:ARG:CB	1:C:1360:GLU:HG2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1424:MET:O	1:C:1427:SER:OG	2.32	0.42
2:D:114:GLN:O	2:D:115:GLU:C	2.63	0.42
2:D:145:GLN:O	2:D:149:ASN:ND2	2.52	0.42
2:E:105:TRP:CA	2:E:108:GLU:CG	2.98	0.42
1:A:1170:GLU:O	1:A:1173:LEU:N	2.53	0.41
1:B:1325:SER:OG	1:B:1326:LYS:HE3	2.20	0.41
1:B:1376:ILE:HA	1:B:1379:MET:HG3	2.01	0.41
1:B:1469:ASN:ND2	1:B:1469:ASN:O	2.49	0.41
1:C:1090:GLY:C	1:C:1092:LEU:N	2.78	0.41
1:C:1162:LYS:H	1:C:1162:LYS:HD2	1.85	0.41
1:C:1170:GLU:CG	1:C:1171:THR:N	2.83	0.41
1:C:1175:PHE:O	1:C:1178:ALA:HB3	2.19	0.41
1:C:1387:LYS:O	1:C:1388:GLU:C	2.62	0.41
1:C:1443:LYS:O	1:C:1444:GLN:HG3	2.20	0.41
1:C:1474:GLU:O	1:C:1475:GLU:CB	2.68	0.41
1:C:1490:PHE:CE2	1:C:1492:ASN:OD1	2.66	0.41
1:C:1492:ASN:O	1:C:1493:ILE:CD1	2.68	0.41
2:F:97:GLN:CD	2:F:97:GLN:O	2.63	0.41
2:F:107:GLU:O	2:F:110:ARG:HG2	2.20	0.41
1:A:1161:ARG:HE	1:A:1173:LEU:CD2	2.29	0.41
1:A:1325:SER:OG	1:A:1326:LYS:HE3	2.20	0.41
1:A:1333:ARG:CA	1:A:1360:GLU:CG	2.98	0.41
1:A:1387:LYS:O	1:A:1389:GLY:N	2.53	0.41
1:A:1412:LEU:HA	1:A:1419:LEU:HD13	1.98	0.41
1:A:1445:LEU:HD23	1:A:1445:LEU:C	2.45	0.41
1:A:1471:PHE:HD1	1:A:1476:ASP:HB3	1.85	0.41
1:B:1094:ARG:O	1:B:1097:GLU:HB2	2.20	0.41
1:B:1230:THR:O	1:B:1231:LEU:HG	2.19	0.41
1:B:1283:LEU:CD2	1:B:1313:HIS:NE2	2.74	0.41
1:B:1345:ILE:HB	1:B:1368:TYR:HE2	1.85	0.41
1:B:1348:VAL:O	1:B:1352:ALA:N	2.52	0.41
1:B:1419:LEU:HD23	1:B:1447:LEU:HD13	2.01	0.41
1:B:1443:LYS:O	1:B:1444:GLN:HG3	2.20	0.41
1:C:1082:VAL:C	1:C:1084:VAL:H	2.28	0.41
1:C:1254:LYS:CA	1:C:1289:TYR:CE2	3.02	0.41
1:C:1270:GLN:CG	1:C:1298:GLU:CG	2.87	0.41
1:C:1362:VAL:HG23	1:C:1377:THR:HG21	1.99	0.41
1:C:1448:VAL:O	1:C:1449:LYS:C	2.63	0.41
1:A:1167:SER:OG	1:A:1168:TYR:N	2.53	0.41
1:A:1255:GLU:O	1:A:1289:TYR:CE2	2.72	0.41
1:A:1292:ASP:HA	2:F:97:GLN:HG2	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1499:LEU:HB2	1:A:1511:ALA:CB	2.42	0.41
1:B:1170:GLU:CG	1:B:1171:THR:N	2.83	0.41
1:B:1323:LEU:O	1:B:1327:PHE:CD2	2.73	0.41
1:B:1333:ARG:O	1:B:1334:GLU:C	2.63	0.41
1:B:1387:LYS:O	1:B:1389:GLY:N	2.54	0.41
1:B:1425:VAL:CG2	1:B:1426:LEU:H	2.18	0.41
1:B:1499:LEU:HB2	1:B:1511:ALA:CB	2.43	0.41
1:B:1521:TRP:CZ3	1:B:1525:VAL:HG11	2.55	0.41
1:C:1145:ASN:O	1:C:1150:TRP:CZ2	2.73	0.41
1:C:1170:GLU:O	1:C:1173:LEU:N	2.53	0.41
1:C:1352:ALA:C	1:C:1354:GLN:H	2.28	0.41
1:C:1434:ARG:HH21	2:E:5:UNK:CB	2.33	0.41
1:C:1599:PHE:HA	1:C:1602:VAL:CG2	2.50	0.41
2:E:189:UNK:N	2:E:194:UNK:CB	2.83	0.41
2:F:119:ALA:HA	2:F:123:MET:HE2	2.02	0.41
1:A:1323:LEU:O	1:A:1327:PHE:CD2	2.73	0.41
1:A:1406:ARG:O	1:A:1409:GLN:CB	2.64	0.41
1:A:1469:ASN:ND2	1:A:1498:ARG:NH1	2.68	0.41
1:A:1471:PHE:HA	1:A:1474:GLU:CG	2.44	0.41
1:A:1580:ASP:OD1	1:C:1605:GLU:N	2.54	0.41
1:B:1120:MET:C	1:B:1121:VAL:HG22	2.45	0.41
1:B:1377:THR:C	1:B:1381:HIS:HD2	2.27	0.41
1:B:1481:ARG:O	1:B:1484:ILE:HG13	2.20	0.41
1:B:1521:TRP:CZ3	1:B:1522:LYS:CD	3.02	0.41
1:C:1368:TYR:HD1	1:C:1368:TYR:O	2.03	0.41
1:C:1417:LEU:HD22	1:C:1417:LEU:HA	1.90	0.41
1:C:1561:GLU:CG	1:C:1562:LYS:H	2.34	0.41
2:F:144:GLU:O	2:F:148:LYS:N	2.45	0.41
1:A:1183:LEU:HD12	1:A:1184:ALA:N	2.35	0.41
1:A:1209:LYS:CB	1:A:1231:LEU:HB3	2.48	0.41
1:A:1329:PRO:HB2	1:A:1330:GLN:H	1.63	0.41
1:A:1333:ARG:CG	1:A:1360:GLU:HG3	2.50	0.41
1:A:1340:TRP:H	1:A:1340:TRP:HD1	1.67	0.41
1:A:1561:GLU:CG	1:A:1562:LYS:H	2.34	0.41
1:A:1598:TYR:CE2	2:F:199:UNK:N	2.89	0.41
1:B:1318:THR:HG22	1:B:1347:LYS:NZ	2.36	0.41
1:B:1344:ASN:OD1	1:B:1345:ILE:N	2.53	0.41
1:B:1445:LEU:HD23	1:B:1445:LEU:C	2.45	0.41
1:C:1333:ARG:CG	1:C:1360:GLU:HG3	2.49	0.41
1:C:1340:TRP:H	1:C:1340:TRP:HD1	1.68	0.41
1:C:1340:TRP:CZ3	1:C:1367:LYS:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1412:LEU:HA	1:C:1419:LEU:HD13	1.99	0.41
1:C:1435:ALA:HB1	1:C:1439:PHE:HE2	1.83	0.41
1:C:1472:ILE:CG2	1:C:1498:ARG:HE	2.21	0.41
1:C:1513:TYR:O	1:C:1516:LYS:N	2.53	0.41
1:C:1533:LEU:O	1:C:1535:LYS:N	2.53	0.41
2:D:103:ARG:HA	2:D:103:ARG:HD2	1.59	0.41
2:D:107:GLU:O	2:D:110:ARG:HG2	2.20	0.41
2:D:186:UNK:C	2:D:188:UNK:N	2.83	0.41
2:E:98:GLU:HA	2:E:98:GLU:OE1	2.21	0.41
2:E:134:ASP:HA	2:E:137:GLU:OE1	2.21	0.41
1:A:1105:PRO:CG	1:A:1108:TRP:CZ2	3.04	0.41
1:A:1253:TRP:HZ3	1:A:1276:ILE:CG2	2.04	0.41
1:A:1290:TYR:CD2	1:A:1299:LEU:CD1	2.92	0.41
1:A:1352:ALA:C	1:A:1354:GLN:H	2.29	0.41
1:A:1401:VAL:HG22	1:A:1429:ARG:HH21	1.84	0.41
1:A:1551:GLU:CD	1:A:1582:VAL:HG22	2.45	0.41
1:A:1554:LEU:HB2	1:A:1571:PHE:CE2	2.56	0.41
1:A:1596:MET:SD	1:A:1599:PHE:CZ	3.13	0.41
1:B:1170:GLU:O	1:B:1173:LEU:N	2.53	0.41
1:B:1250:THR:C	1:B:1251:ARG:CG	2.89	0.41
1:B:1276:ILE:HG13	1:B:1277:VAL:N	2.34	0.41
1:B:1342:ARG:O	1:B:1343:VAL:HB	2.21	0.41
1:B:1379:MET:C	1:B:1380:ASN:HD22	2.29	0.41
1:B:1448:VAL:O	1:B:1449:LYS:C	2.64	0.41
1:B:1456:GLN:HE22	1:B:1467:LEU:CD2	2.33	0.41
1:B:1602:VAL:HG13	2:D:205:UNK:C	2.51	0.41
1:B:1605:GLU:CB	1:C:1580:ASP:OD1	2.62	0.41
1:C:1094:ARG:O	1:C:1097:GLU:HB2	2.20	0.41
1:C:1213:ALA:O	1:C:1217:LEU:HB2	2.20	0.41
1:C:1345:ILE:HB	1:C:1368:TYR:HE2	1.85	0.41
1:C:1401:VAL:C	1:C:1404:TYR:HD1	2.28	0.41
2:F:114:GLN:O	2:F:115:GLU:C	2.63	0.41
2:F:167:ASP:O	2:F:168:ILE:C	2.63	0.41
1:A:1211:TYR:HB2	1:A:1231:LEU:HD11	2.02	0.41
1:A:1236:GLU:C	1:A:1238:GLN:N	2.77	0.41
1:A:1303:LEU:HD12	1:A:1320:LEU:CD1	2.34	0.41
1:A:1420:ASN:HA	1:A:1423:LEU:CD1	2.51	0.41
1:A:1472:ILE:CG2	1:A:1498:ARG:HH21	2.34	0.41
1:A:1474:GLU:O	1:A:1475:GLU:HB2	2.21	0.41
1:A:1481:ARG:NH1	1:A:1510:ILE:CD1	2.84	0.41
1:B:1083:GLN:NE2	1:B:1106:ALA:CB	2.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1496:ALA:CB	1:B:1515:PHE:CZ	3.02	0.41
1:B:1504:LEU:HD23	1:B:1504:LEU:HA	1.79	0.41
1:B:1587:TRP:N	1:B:1587:TRP:CD1	2.87	0.41
1:C:1303:LEU:HD23	1:C:1303:LEU:H	1.84	0.41
1:C:1323:LEU:O	1:C:1327:PHE:CD2	2.73	0.41
1:C:1472:ILE:CG2	1:C:1498:ARG:HH21	2.34	0.41
2:E:133:LYS:HA	2:E:133:LYS:HZ2	1.74	0.41
1:A:1082:VAL:C	1:A:1084:VAL:H	2.28	0.41
1:A:1087:GLU:C	1:A:1089:ILE:N	2.76	0.41
1:A:1094:ARG:O	1:A:1097:GLU:HB2	2.20	0.41
1:A:1240:ALA:C	1:A:1242:ASP:N	2.74	0.41
1:A:1295:TYR:HE2	1:A:1299:LEU:HD13	1.85	0.41
1:A:1333:ARG:O	1:A:1334:GLU:C	2.63	0.41
1:A:1419:LEU:HD23	1:A:1447:LEU:HD13	2.01	0.41
1:A:1504:LEU:HD23	1:A:1504:LEU:HA	1.79	0.41
1:A:1609:LYS:C	1:A:1611:ASP:N	2.76	0.41
1:B:1130:LYS:NZ	1:B:1155:LYS:HD3	2.35	0.41
1:B:1211:TYR:HB2	1:B:1231:LEU:HD11	2.01	0.41
1:B:1244:ALA:H	1:B:1275:HIS:CE1	2.39	0.41
1:B:1401:VAL:HG22	1:B:1429:ARG:HH21	1.85	0.41
1:B:1471:PHE:HD1	1:B:1476:ASP:HB3	1.86	0.41
1:B:1481:ARG:NH1	1:B:1510:ILE:CD1	2.83	0.41
1:B:1508:ARG:CZ	1:B:1530:LYS:HD3	2.50	0.41
1:B:1561:GLU:CG	1:B:1562:LYS:H	2.34	0.41
1:C:1151:GLU:HB3	1:C:1152:GLU:OE2	2.21	0.41
1:C:1167:SER:O	1:C:1172:GLU:N	2.54	0.41
1:C:1224:PHE:HA	1:C:1227:LEU:HB3	2.03	0.41
1:C:1333:ARG:O	1:C:1334:GLU:C	2.63	0.41
1:C:1521:TRP:CH2	1:C:1525:VAL:HG11	2.56	0.41
2:E:134:ASP:HA	2:E:137:GLU:HB2	2.03	0.41
2:F:182:UNK:C	2:F:188:UNK:CB	2.99	0.41
2:F:196:UNK:O	2:F:199:UNK:CB	2.69	0.41
1:A:1154:VAL:HG13	1:A:1180:THR:HG21	2.02	0.41
1:A:1161:ARG:O	1:A:1164:ALA:O	2.38	0.41
1:A:1236:GLU:HB3	1:A:1237:TYR:H	1.77	0.41
1:A:1261:VAL:HG11	1:A:1295:TYR:CE1	2.53	0.41
1:A:1469:ASN:ND2	1:A:1469:ASN:C	2.79	0.41
1:A:1474:GLU:O	1:A:1475:GLU:CB	2.69	0.41
1:A:1481:ARG:O	1:A:1484:ILE:HG13	2.21	0.41
1:A:1521:TRP:CZ3	1:A:1522:LYS:CD	3.02	0.41
1:A:1530:LYS:C	1:A:1532:SER:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1599:PHE:HA	1:A:1602:VAL:CG2	2.51	0.41
1:A:1621:LYS:HB3	1:A:1625:GLN:NE2	2.36	0.41
1:B:1115:GLN:OE1	1:B:1121:VAL:HG21	2.21	0.41
1:B:1126:ASP:OD1	1:B:1156:TYR:OH	2.38	0.41
1:B:1194:ASN:O	1:B:1195:ASN:C	2.64	0.41
1:B:1258:PHE:CE1	1:B:1293:ARG:HD2	2.56	0.41
1:B:1352:ALA:C	1:B:1354:GLN:H	2.29	0.41
1:B:1361:LEU:HD22	1:B:1365:TYR:HE2	1.72	0.41
1:B:1427:SER:HB2	1:B:1428:PRO:HD2	1.88	0.41
1:B:1509:ARG:NH2	2:D:163:GLN:CA	2.50	0.41
1:B:1533:LEU:O	1:B:1535:LYS:N	2.54	0.41
1:B:1548:GLU:C	1:B:1550:ALA:N	2.78	0.41
1:C:1108:TRP:CE3	1:C:1108:TRP:CA	2.98	0.41
1:C:1136:SER:CB	1:C:1140:VAL:CG2	2.97	0.41
1:C:1379:MET:SD	1:C:1403:LEU:HD21	2.61	0.41
1:C:1387:LYS:O	1:C:1389:GLY:N	2.53	0.41
1:C:1456:GLN:HE22	1:C:1467:LEU:CD2	2.34	0.41
1:C:1466:SER:O	1:C:1470:LEU:N	2.52	0.41
1:C:1469:ASN:ND2	1:C:1469:ASN:C	2.79	0.41
1:C:1548:GLU:C	1:C:1550:ALA:N	2.78	0.41
1:C:1617:GLU:HA	1:C:1620:ARG:CZ	2.51	0.41
1:C:1621:LYS:HB3	1:C:1625:GLN:NE2	2.36	0.41
2:D:151:ILE:CG1	2:D:152:ASN:N	2.84	0.41
2:E:91:GLN:OE1	2:E:92:ALA:HA	2.21	0.41
2:E:105:TRP:HA	2:E:108:GLU:OE2	2.20	0.41
2:E:178:UNK:O	2:E:180:UNK:N	2.54	0.41
2:F:134:ASP:HA	2:F:137:GLU:OE1	2.21	0.41
1:A:1082:VAL:HG11	1:A:1105:PRO:CB	2.44	0.41
1:A:1161:ARG:HD3	1:A:1161:ARG:HA	1.84	0.41
1:A:1177:LEU:O	1:A:1178:ALA:C	2.64	0.41
1:A:1213:ALA:O	1:A:1217:LEU:HB2	2.20	0.41
1:A:1329:PRO:O	1:A:1332:MET:N	2.45	0.41
1:A:1342:ARG:O	1:A:1343:VAL:HB	2.21	0.41
1:A:1345:ILE:HB	1:A:1368:TYR:HE2	1.85	0.41
1:A:1465:GLU:C	1:A:1465:GLU:OE1	2.64	0.41
1:A:1621:LYS:O	1:A:1622:GLU:C	2.64	0.41
1:B:1280:ALA:C	1:B:1282:GLU:N	2.79	0.41
1:B:1401:VAL:C	1:B:1404:TYR:HD1	2.28	0.41
1:B:1469:ASN:ND2	1:B:1469:ASN:C	2.79	0.41
1:B:1481:ARG:NH1	1:B:1510:ILE:HG13	2.35	0.41
1:B:1567:GLY:O	1:B:1569:CYS:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1253:TRP:O	1:C:1289:TYR:CZ	2.74	0.41
1:C:1381:HIS:N	1:C:1382:PRO:CD	2.82	0.41
1:C:1458:HIS:C	1:C:1460:ASN:N	2.77	0.41
1:C:1471:PHE:HD1	1:C:1476:ASP:HB3	1.85	0.41
1:C:1554:LEU:HB2	1:C:1571:PHE:CE2	2.56	0.41
2:D:12:UNK:C	2:D:14:UNK:N	2.84	0.41
2:D:103:ARG:HA	2:D:106:ARG:HB2	2.03	0.41
2:F:134:ASP:HA	2:F:137:GLU:HB2	2.03	0.41
1:A:1151:GLU:HB3	1:A:1152:GLU:OE2	2.21	0.40
1:A:1163:LYS:O	1:A:1164:ALA:CB	2.68	0.40
1:A:1234:LEU:CG	1:A:1235:GLY:N	2.74	0.40
1:A:1257:CYS:SG	1:A:1290:TYR:HE1	2.41	0.40
1:A:1378:MET:SD	1:A:1391:PHE:HD2	2.45	0.40
1:A:1379:MET:C	1:A:1380:ASN:HD22	2.29	0.40
1:A:1381:HIS:N	1:A:1382:PRO:CD	2.83	0.40
1:A:1448:VAL:O	1:A:1449:LYS:C	2.63	0.40
1:A:1601:GLN:HA	1:A:1604:LYS:CD	2.51	0.40
1:B:1088:HIS:C	1:B:1089:ILE:HG13	2.46	0.40
1:B:1146:THR:OG1	1:B:1147:SER:N	2.54	0.40
1:B:1191:ASN:C	1:B:1193:PRO:CD	2.93	0.40
1:B:1224:PHE:HA	1:B:1227:LEU:HB3	2.03	0.40
1:B:1533:LEU:CD2	1:B:1535:LYS:HB2	2.51	0.40
1:C:1599:PHE:HA	1:C:1602:VAL:HG23	2.03	0.40
2:D:126:GLU:HG3	2:D:130:LYS:CE	2.52	0.40
2:F:151:ILE:CG1	2:F:152:ASN:N	2.84	0.40
1:A:1111:LEU:HD22	1:A:1111:LEU:C	2.29	0.40
1:A:1157:LEU:CD1	1:A:1177:LEU:CD2	2.95	0.40
1:A:1209:LYS:H	1:A:1209:LYS:HG3	1.65	0.40
1:A:1244:ALA:N	1:A:1275:HIS:CE1	2.89	0.40
1:A:1368:TYR:HD1	1:A:1368:TYR:O	2.03	0.40
1:A:1551:GLU:CG	1:A:1582:VAL:CG2	2.93	0.40
1:A:1551:GLU:OE1	1:A:1582:VAL:HG22	2.21	0.40
1:A:1587:TRP:N	1:A:1587:TRP:CD1	2.87	0.40
1:B:1107:VAL:HG12	1:B:1111:LEU:CB	2.43	0.40
1:B:1225:GLY:C	1:B:1227:LEU:N	2.78	0.40
1:B:1379:MET:SD	1:B:1403:LEU:HD21	2.61	0.40
1:B:1472:ILE:CG2	1:B:1498:ARG:HH21	2.34	0.40
1:B:1474:GLU:O	1:B:1475:GLU:CB	2.69	0.40
1:C:1134:PRO:O	1:C:1135:SER:O	2.39	0.40
1:C:1167:SER:CB	1:C:1171:THR:HG1	2.34	0.40
1:C:1234:LEU:HD23	1:C:1264:LYS:HZ3	1.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1376:ILE:CD1	1:C:1403:LEU:HD23	2.50	0.40
1:C:1388:GLU:CG	1:C:1389:GLY:N	2.82	0.40
1:C:1447:LEU:C	1:C:1449:LYS:H	2.29	0.40
1:C:1474:GLU:O	1:C:1475:GLU:HB2	2.21	0.40
1:C:1527:LEU:HD21	1:C:1540:TYR:HH	1.82	0.40
1:C:1530:LYS:C	1:C:1532:SER:N	2.78	0.40
1:C:1567:GLY:O	1:C:1569:CYS:N	2.55	0.40
2:D:95:LEU:O	2:D:99:PRO:HD2	2.21	0.40
2:F:129:GLU:CB	2:F:132:LYS:HZ2	2.31	0.40
1:A:1083:GLN:C	1:A:1085:LEU:N	2.79	0.40
1:A:1401:VAL:O	1:A:1401:VAL:HG12	2.22	0.40
1:A:1414:PHE:CE1	2:F:127:TRP:CE3	3.09	0.40
1:A:1447:LEU:C	1:A:1449:LYS:H	2.29	0.40
1:B:1102:CYS:O	1:B:1103:ASN:CB	2.69	0.40
1:B:1250:THR:C	1:B:1251:ARG:HG2	2.24	0.40
1:B:1456:GLN:NE2	1:B:1467:LEU:CD2	2.85	0.40
1:B:1517:GLY:O	1:B:1519:ASN:N	2.55	0.40
1:B:1554:LEU:HB2	1:B:1571:PHE:CE2	2.56	0.40
1:B:1609:LYS:C	1:B:1611:ASP:N	2.76	0.40
1:C:1475:GLU:OE1	2:E:145:GLN:CB	2.70	0.40
1:C:1521:TRP:CZ3	1:C:1522:LYS:CD	3.03	0.40
1:C:1533:LEU:CD2	1:C:1535:LYS:HB2	2.51	0.40
1:C:1621:LYS:O	1:C:1622:GLU:C	2.64	0.40
2:D:186:UNK:C	2:D:188:UNK:H	2.34	0.40
2:F:97:GLN:CD	2:F:97:GLN:C	2.89	0.40
1:A:1401:VAL:C	1:A:1404:TYR:HD1	2.28	0.40
1:B:1170:GLU:OE1	1:B:1194:ASN:HB3	2.22	0.40
1:B:1350:ARG:C	1:B:1354:GLN:HB3	2.45	0.40
1:B:1474:GLU:O	1:B:1475:GLU:HB2	2.21	0.40
1:B:1521:TRP:CH2	1:B:1525:VAL:HG11	2.56	0.40
1:B:1599:PHE:HA	1:B:1602:VAL:CG2	2.51	0.40
1:C:1108:TRP:NE1	1:C:1131:ALA:CB	2.84	0.40
1:C:1333:ARG:CA	1:C:1360:GLU:CG	2.98	0.40
1:C:1449:LYS:O	1:C:1453:ARG:NH1	2.55	0.40
1:C:1465:GLU:C	1:C:1465:GLU:OE1	2.64	0.40
1:A:1224:PHE:HA	1:A:1227:LEU:HB3	2.03	0.40
1:A:1232:VAL:O	1:A:1233:HIS:HB3	2.22	0.40
1:A:1517:GLY:O	1:A:1519:ASN:N	2.54	0.40
1:A:1596:MET:SD	1:A:1597:PRO:CD	3.00	0.40
1:B:1166:GLU:O	1:B:1169:VAL:HB	2.21	0.40
1:B:1333:ARG:CB	1:B:1360:GLU:HG2	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1401:VAL:O	1:B:1401:VAL:HG12	2.22	0.40
1:B:1502:HIS:O	1:B:1508:ARG:HD2	2.22	0.40
1:B:1596:MET:SD	1:B:1599:PHE:HZ	2.43	0.40
1:C:1350:ARG:C	1:C:1354:GLN:HB3	2.45	0.40
1:C:1450:PRO:C	1:C:1452:LEU:N	2.79	0.40
1:C:1578:ARG:HH12	1:C:1594:PHE:HZ	1.69	0.40
2:F:146:VAL:C	2:F:149:ASN:HB2	2.46	0.40

All (5) 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:B:1340:TRP:CZ2	1:C:1222:SER:OG[12_655]	1.80	0.40
1:C:1304:GLU:OE2	1:C:1334:GLU:OE2[15_645]	1.98	0.22
1:A:1199:GLN:NE2	1:A:1431:ASP:OD2[10_555]	2.13	0.07
1:B:1340:TRP:CZ2	1:C:1222:SER:CB[12_655]	2.15	0.05
1:B:1341:SER:OG	1:C:1203:ASP:OD2[12_655]	2.18	0.02

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	551/624 (88%)	322 (58%)	152 (28%)	77 (14%)	0	3
1	B	551/624 (88%)	319 (58%)	161 (29%)	71 (13%)	0	4
1	C	551/624 (88%)	309 (56%)	164 (30%)	78 (14%)	0	3
2	D	77/190 (40%)	50 (65%)	16 (21%)	11 (14%)	0	3
2	E	66/190 (35%)	35 (53%)	21 (32%)	10 (15%)	0	3
2	F	76/190 (40%)	42 (55%)	20 (26%)	14 (18%)	0	2
All	All	1872/2442 (77%)	1077 (58%)	534 (28%)	261 (14%)	0	3

All (261) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1087	GLU
1	A	1091	ASN
1	A	1105	PRO
1	A	1122	LYS
1	A	1130	LYS
1	A	1165	ARG
1	A	1168	TYR
1	A	1181	ASN
1	A	1193	PRO
1	A	1194	ASN
1	A	1198	ILE
1	A	1231	LEU
1	A	1251	ARG
1	A	1278	VAL
1	A	1283	LEU
1	A	1297	GLU
1	A	1327	PHE
1	A	1329	PRO
1	A	1330	GLN
1	A	1427	SER
1	A	1493	ILE
1	A	1547	THR
1	A	1590	ASN
1	A	1594	PHE
1	A	1596	MET
1	A	1597	PRO
1	B	1105	PRO
1	B	1121	VAL
1	B	1130	LYS
1	B	1164	ALA
1	B	1167	SER
1	B	1168	TYR
1	B	1181	ASN
1	B	1184	ALA
1	B	1193	PRO
1	B	1194	ASN
1	B	1231	LEU
1	B	1246	LYS
1	B	1247	ALA
1	B	1251	ARG
1	B	1278	VAL
1	B	1280	ALA

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Mol	Chain	Res	Type
1	B	1283	LEU
1	B	1297	GLU
1	B	1327	PHE
1	B	1329	PRO
1	B	1330	GLN
1	B	1427	SER
1	B	1493	ILE
1	B	1547	THR
1	B	1588	ARG
1	B	1594	PHE
1	B	1596	MET
1	B	1597	PRO
1	B	1625	GLN
1	C	1088	HIS
1	C	1093	ASP
1	C	1105	PRO
1	C	1106	ALA
1	C	1107	VAL
1	C	1122	LYS
1	C	1133	ASP
1	C	1137	TYR
1	C	1147	SER
1	C	1149	ASN
1	C	1167	SER
1	C	1194	ASN
1	C	1198	ILE
1	C	1199	GLN
1	C	1200	GLN
1	C	1223	ASN
1	C	1231	LEU
1	C	1232	VAL
1	C	1234	LEU
1	C	1235	GLY
1	C	1251	ARG
1	C	1278	VAL
1	C	1280	ALA
1	C	1283	LEU
1	C	1297	GLU
1	C	1327	PHE
1	C	1329	PRO
1	C	1330	GLN
1	C	1427	SER

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Mol	Chain	Res	Type
1	C	1493	ILE
1	C	1547	THR
1	C	1589	HIS
1	C	1591	ILE
1	C	1594	PHE
1	C	1596	MET
1	C	1597	PRO
2	D	113	LEU
2	D	156	ALA
2	D	157	ASP
2	E	95	LEU
2	F	156	ALA
2	F	157	ASP
2	F	163	GLN
2	F	167	ASP
1	A	1093	ASP
1	A	1145	ASN
1	A	1151	GLU
1	A	1160	ALA
1	A	1164	ALA
1	A	1195	ASN
1	A	1294	GLY
1	A	1296	PHE
1	A	1358	TRP
1	A	1382	PRO
1	A	1416	PRO
1	A	1517	GLY
1	A	1588	ARG
1	B	1086	ILE
1	B	1093	ASP
1	B	1103	ASN
1	B	1136	SER
1	B	1145	ASN
1	B	1358	TRP
1	B	1382	PRO
1	B	1416	PRO
1	B	1517	GLY
1	B	1585	THR
1	C	1089	ILE
1	C	1092	LEU
1	C	1103	ASN
1	C	1121	VAL

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Mol	Chain	Res	Type
1	C	1145	ASN
1	C	1151	GLU
1	C	1358	TRP
1	C	1382	PRO
1	C	1416	PRO
1	C	1517	GLY
1	C	1585	THR
1	C	1590	ASN
2	D	94	ARG
2	D	115	GLU
2	D	160	PHE
2	E	113	LEU
2	E	115	GLU
2	F	113	LEU
2	F	115	GLU
1	A	1088	HIS
1	A	1138	MET
1	A	1148	GLY
1	A	1182	ARG
1	A	1216	LEU
1	A	1236	GLU
1	A	1254	LYS
1	A	1281	ASP
1	A	1345	ILE
1	A	1383	THR
1	A	1388	GLU
1	A	1432	HIS
1	A	1505	ILE
1	A	1568	ALA
1	A	1585	THR
1	A	1591	ILE
1	B	1091	ASN
1	B	1138	MET
1	B	1151	GLU
1	B	1195	ASN
1	B	1216	LEU
1	B	1221	VAL
1	B	1236	GLU
1	B	1254	LYS
1	B	1345	ILE
1	B	1383	THR
1	B	1388	GLU

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Mol	Chain	Res	Type
1	B	1432	HIS
1	B	1505	ILE
1	B	1528	CYS
1	B	1568	ALA
1	C	1134	PRO
1	C	1135	SER
1	C	1216	LEU
1	C	1221	VAL
1	C	1254	LYS
1	C	1345	ILE
1	C	1383	THR
1	C	1388	GLU
1	C	1432	HIS
1	C	1505	ILE
1	C	1568	ALA
2	D	95	LEU
2	D	98	GLU
2	E	107	GLU
2	F	101	SER
2	F	162	GLN
1	A	1221	VAL
1	A	1264	LYS
1	A	1429	ARG
1	A	1548	GLU
1	A	1589	HIS
1	B	1084	VAL
1	B	1264	LYS
1	B	1429	ARG
1	B	1548	GLU
1	B	1590	ASN
1	C	1165	ARG
1	C	1247	ALA
1	C	1264	LYS
1	C	1295	TYR
1	C	1429	ARG
2	E	94	ARG
2	F	103	ARG
1	A	1132	ASP
1	A	1247	ALA
1	A	1316	MET
1	A	1408	ILE
1	A	1424	MET

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Mol	Chain	Res	Type
1	A	1575	ASP
1	B	1080	SER
1	B	1259	ALA
1	B	1316	MET
1	B	1408	ILE
1	B	1424	MET
1	C	1080	SER
1	C	1166	GLU
1	C	1259	ALA
1	C	1316	MET
1	C	1408	ILE
1	C	1424	MET
1	C	1625	GLN
2	D	116	LEU
2	E	92	ALA
2	E	98	GLU
2	E	112	ARG
2	E	116	LEU
2	F	112	ARG
2	F	116	LEU
2	F	149	ASN
1	A	1080	SER
1	A	1121	VAL
1	A	1131	ALA
1	A	1259	ALA
1	A	1544	SER
1	B	1088	HIS
1	B	1147	SER
1	C	1192	GLY
1	C	1544	SER
2	D	149	ASN
2	E	149	ASN
2	F	164	PRO
1	A	1134	PRO
1	A	1141	VAL
1	A	1525	VAL
1	B	1141	VAL
1	B	1525	VAL
1	C	1525	VAL
1	A	1133	ASP
2	F	99	PRO
1	A	1343	VAL

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Mol	Chain	Res	Type
1	A	1579	PRO
1	B	1343	VAL
1	B	1579	PRO
1	C	1343	VAL
1	C	1579	PRO
1	B	1148	GLY
2	D	99	PRO
1	C	1193	PRO
1	C	1256	VAL

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	485/541 (90%)	420 (87%)	65 (13%)	4	14
1	B	485/541 (90%)	414 (85%)	71 (15%)	3	13
1	C	485/541 (90%)	405 (84%)	80 (16%)	2	10
2	D	62/73 (85%)	44 (71%)	18 (29%)	0	2
2	E	61/73 (84%)	42 (69%)	19 (31%)	0	2
2	F	62/73 (85%)	41 (66%)	21 (34%)	0	1
All	All	1640/1842 (89%)	1366 (83%)	274 (17%)	2	10

All (274) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1085	LEU
1	A	1086	ILE
1	A	1087	GLU
1	A	1096	TYR
1	A	1102	CYS
1	A	1108	TRP
1	A	1111	LEU
1	A	1126	ASP
1	A	1133	ASP

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Mol	Chain	Res	Type
1	A	1136	SER
1	A	1154	VAL
1	A	1168	TYR
1	A	1172	GLU
1	A	1181	ASN
1	A	1183	LEU
1	A	1212	ASP
1	A	1217	LEU
1	A	1221	VAL
1	A	1226	ARG
1	A	1227	LEU
1	A	1261	VAL
1	A	1262	ASP
1	A	1274	LEU
1	A	1290	TYR
1	A	1303	LEU
1	A	1304	GLU
1	A	1317	PHE
1	A	1345	ILE
1	A	1350	ARG
1	A	1354	GLN
1	A	1361	LEU
1	A	1377	THR
1	A	1383	THR
1	A	1384	ASP
1	A	1390	GLN
1	A	1396	THR
1	A	1403	LEU
1	A	1417	LEU
1	A	1419	LEU
1	A	1422	LEU
1	A	1443	LYS
1	A	1447	LEU
1	A	1448	VAL
1	A	1458	HIS
1	A	1460	ASN
1	A	1504	LEU
1	A	1510	ILE
1	A	1526	GLU
1	A	1527	LEU
1	A	1536	ASP
1	A	1540	TYR

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Mol	Chain	Res	Type
1	A	1549	LEU
1	A	1574	TYR
1	A	1577	LEU
1	A	1578	ARG
1	A	1588	ARG
1	A	1591	ILE
1	A	1592	MET
1	A	1593	ASP
1	A	1594	PHE
1	A	1596	MET
1	A	1597	PRO
1	A	1601	GLN
1	A	1611	ASP
1	A	1620	ARG
1	B	1085	LEU
1	B	1091	ASN
1	B	1096	TYR
1	B	1104	GLU
1	B	1108	TRP
1	B	1111	LEU
1	B	1120	MET
1	B	1121	VAL
1	B	1126	ASP
1	B	1136	SER
1	B	1154	VAL
1	B	1162	LYS
1	B	1168	TYR
1	B	1172	GLU
1	B	1183	LEU
1	B	1197	HIS
1	B	1212	ASP
1	B	1217	LEU
1	B	1221	VAL
1	B	1222	SER
1	B	1226	ARG
1	B	1227	LEU
1	B	1245	ARG
1	B	1261	VAL
1	B	1262	ASP
1	B	1274	LEU
1	B	1281	ASP
1	B	1290	TYR

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Mol	Chain	Res	Type
1	B	1295	TYR
1	B	1303	LEU
1	B	1304	GLU
1	B	1317	PHE
1	B	1345	ILE
1	B	1350	ARG
1	B	1354	GLN
1	B	1361	LEU
1	B	1377	THR
1	B	1383	THR
1	B	1384	ASP
1	B	1390	GLN
1	B	1396	THR
1	B	1403	LEU
1	B	1417	LEU
1	B	1419	LEU
1	B	1422	LEU
1	B	1443	LYS
1	B	1447	LEU
1	B	1448	VAL
1	B	1458	HIS
1	B	1460	ASN
1	B	1504	LEU
1	B	1510	ILE
1	B	1526	GLU
1	B	1527	LEU
1	B	1536	ASP
1	B	1540	TYR
1	B	1549	LEU
1	B	1574	TYR
1	B	1577	LEU
1	B	1578	ARG
1	B	1588	ARG
1	B	1591	ILE
1	B	1592	MET
1	B	1593	ASP
1	B	1594	PHE
1	B	1596	MET
1	B	1597	PRO
1	B	1601	GLN
1	B	1611	ASP
1	B	1620	ARG

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Mol	Chain	Res	Type
1	B	1629	THR
1	C	1085	LEU
1	C	1086	ILE
1	C	1087	GLU
1	C	1089	ILE
1	C	1091	ASN
1	C	1092	LEU
1	C	1096	TYR
1	C	1101	ARG
1	C	1102	CYS
1	C	1103	ASN
1	C	1104	GLU
1	C	1108	TRP
1	C	1111	LEU
1	C	1121	VAL
1	C	1126	ASP
1	C	1137	TYR
1	C	1149	ASN
1	C	1154	VAL
1	C	1159	MET
1	C	1168	TYR
1	C	1172	GLU
1	C	1174	ILE
1	C	1191	ASN
1	C	1194	ASN
1	C	1198	ILE
1	C	1208	GLU
1	C	1212	ASP
1	C	1217	LEU
1	C	1221	VAL
1	C	1226	ARG
1	C	1227	LEU
1	C	1231	LEU
1	C	1232	VAL
1	C	1261	VAL
1	C	1262	ASP
1	C	1274	LEU
1	C	1281	ASP
1	C	1290	TYR
1	C	1295	TYR
1	C	1303	LEU
1	C	1304	GLU

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Mol	Chain	Res	Type
1	C	1317	PHE
1	C	1345	ILE
1	C	1350	ARG
1	C	1354	GLN
1	C	1361	LEU
1	C	1377	THR
1	C	1383	THR
1	C	1384	ASP
1	C	1390	GLN
1	C	1396	THR
1	C	1403	LEU
1	C	1417	LEU
1	C	1419	LEU
1	C	1422	LEU
1	C	1443	LYS
1	C	1447	LEU
1	C	1448	VAL
1	C	1458	HIS
1	C	1460	ASN
1	C	1504	LEU
1	C	1526	GLU
1	C	1527	LEU
1	C	1536	ASP
1	C	1540	TYR
1	C	1549	LEU
1	C	1574	TYR
1	C	1577	LEU
1	C	1578	ARG
1	C	1588	ARG
1	C	1589	HIS
1	C	1590	ASN
1	C	1591	ILE
1	C	1592	MET
1	C	1593	ASP
1	C	1596	MET
1	C	1597	PRO
1	C	1601	GLN
1	C	1611	ASP
1	C	1620	ARG
2	D	103	ARG
2	D	105	TRP
2	D	106	ARG

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Mol	Chain	Res	Type
2	D	108	GLU
2	D	112	ARG
2	D	114	GLN
2	D	116	LEU
2	D	120	SER
2	D	121	LYS
2	D	123	MET
2	D	125	GLN
2	D	130	LYS
2	D	133	LYS
2	D	137	GLU
2	D	144	GLU
2	D	146	VAL
2	D	153	ASN
2	D	155	ILE
2	E	91	GLN
2	E	93	ASP
2	E	94	ARG
2	E	98	GLU
2	E	100	GLU
2	E	112	ARG
2	E	114	GLN
2	E	116	LEU
2	E	120	SER
2	E	121	LYS
2	E	123	MET
2	E	125	GLN
2	E	130	LYS
2	E	133	LYS
2	E	140	GLN
2	E	144	GLU
2	E	146	VAL
2	E	153	ASN
2	E	155	ILE
2	F	91	GLN
2	F	93	ASP
2	F	94	ARG
2	F	97	GLN
2	F	105	TRP
2	F	106	ARG
2	F	108	GLU
2	F	112	ARG

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Mol	Chain	Res	Type
2	F	114	GLN
2	F	116	LEU
2	F	120	SER
2	F	121	LYS
2	F	123	MET
2	F	125	GLN
2	F	130	LYS
2	F	133	LYS
2	F	140	GLN
2	F	141	ARG
2	F	144	GLU
2	F	146	VAL
2	F	153	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (66) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1083	GLN
1	A	1091	ASN
1	A	1103	ASN
1	A	1145	ASN
1	A	1181	ASN
1	A	1191	ASN
1	A	1223	ASN
1	A	1270	GLN
1	A	1354	GLN
1	A	1380	ASN
1	A	1381	HIS
1	A	1390	GLN
1	A	1456	GLN
1	A	1457	ASN
1	A	1468	ASN
1	A	1469	ASN
1	A	1489	ASN
1	A	1518	ASN
1	A	1523	GLN
1	A	1539	GLN
1	A	1625	GLN
1	A	1630	GLN
1	B	1083	GLN
1	B	1091	ASN
1	B	1145	ASN

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Mol	Chain	Res	Type
1	B	1191	ASN
1	B	1194	ASN
1	B	1223	ASN
1	B	1354	GLN
1	B	1380	ASN
1	B	1381	HIS
1	B	1390	GLN
1	B	1444	GLN
1	B	1456	GLN
1	B	1457	ASN
1	B	1468	ASN
1	B	1469	ASN
1	B	1489	ASN
1	B	1518	ASN
1	B	1523	GLN
1	B	1539	GLN
1	B	1630	GLN
1	C	1091	ASN
1	C	1149	ASN
1	C	1191	ASN
1	C	1194	ASN
1	C	1354	GLN
1	C	1380	ASN
1	C	1381	HIS
1	C	1390	GLN
1	C	1444	GLN
1	C	1456	GLN
1	C	1457	ASN
1	C	1468	ASN
1	C	1469	ASN
1	C	1489	ASN
1	C	1518	ASN
1	C	1523	GLN
1	C	1539	GLN
1	C	1590	ASN
1	C	1625	GLN
2	D	149	ASN
2	D	153	ASN
2	E	149	ASN
2	E	153	ASN
2	F	149	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	553/624 (88%)	3.37	410 (74%) 0 2	306, 348, 348, 348	0
1	B	553/624 (88%)	3.72	403 (72%) 0 2	257, 257, 318, 319	0
1	C	553/624 (88%)	2.96	356 (64%) 0 2	232, 232, 308, 309	0
2	D	79/190 (41%)	2.85	50 (63%) 0 2	298, 298, 298, 298	0
2	E	68/190 (35%)	3.52	50 (73%) 0 2	314, 314, 314, 314	0
2	F	78/190 (41%)	3.67	63 (80%) 0 1	339, 339, 339, 339	0
All	All	1884/2442 (77%)	3.35	1332 (70%) 0 2	232, 307, 348, 348	0

All (1332) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1222	SER	30.2
1	C	1489	ASN	19.2
1	A	1093	ASP	16.4
1	B	1165	ARG	15.1
1	C	1380	ASN	13.9
1	A	1262	ASP	13.7
1	C	1458	HIS	13.7
1	A	1109	SER	13.0
1	B	1133	ASP	12.6
1	A	1266	PHE	12.5
1	A	1629	THR	12.1
1	B	1127	SER	11.8
1	C	1092	LEU	11.5
1	C	1083	GLN	11.4
1	A	1380	ASN	11.3
1	B	1091	ASN	11.2
1	B	1097	GLU	11.2
1	B	1573	CYS	11.0
1	B	1380	ASN	11.0

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Mol	Chain	Res	Type	RSRZ
1	B	1088	HIS	10.9
1	B	1191	ASN	10.9
1	C	1459	ASN	10.9
1	B	1194	ASN	10.8
1	B	1139	GLU	10.7
1	B	1094	ARG	10.5
1	A	1492	ASN	10.1
1	C	1086	ILE	10.0
1	B	1223	ASN	10.0
1	B	1458	HIS	10.0
1	B	1170	GLU	10.0
1	C	1406	ARG	10.0
1	A	1520	ARG	9.8
1	A	1175	PHE	9.8
1	C	1460	ASN	9.7
1	B	1081	ALA	9.7
1	B	1119	GLY	9.6
1	B	1543	GLU	9.6
2	F	101	SER	9.6
1	A	1573	CYS	9.5
1	B	1381	HIS	9.4
1	B	1106	ALA	9.4
1	B	1130	LYS	9.3
1	C	1381	HIS	9.3
2	F	102	ILE	9.1
1	A	1368	TYR	9.1
2	F	109	GLN	9.1
1	C	1355	ALA	9.1
1	B	1278	VAL	9.1
1	A	1225	GLY	9.1
1	C	1627	THR	9.1
1	C	1377	THR	9.0
1	B	1521	TRP	8.8
1	C	1358	TRP	8.8
1	C	1091	ASN	8.7
1	B	1542	SER	8.7
1	A	1386	TRP	8.7
2	D	125	GLN	8.7
2	E	107	GLU	8.6
1	B	1100	GLU	8.6
2	D	96	THR	8.5
1	A	1534	TYR	8.5

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Mol	Chain	Res	Type	RSRZ
1	B	1166	GLU	8.5
1	A	1477	TYR	8.4
1	B	1151	GLU	8.4
1	C	1087	GLU	8.4
1	B	1196	ALA	8.2
1	A	1179	LYS	8.2
1	C	1261	VAL	8.1
1	A	1229	SER	8.0
1	B	1585	THR	8.0
1	A	1082	VAL	8.0
1	A	1127	SER	7.9
2	E	113	LEU	7.9
1	B	1164	ALA	7.9
1	A	1097	GLU	7.9
2	E	112	ARG	7.8
1	B	1098	PHE	7.8
1	B	1460	ASN	7.8
1	C	1214	ALA	7.8
2	E	120	SER	7.8
1	A	1383	THR	7.7
1	A	1079	THR	7.7
1	A	1263	GLY	7.7
1	B	1138	MET	7.7
1	A	1223	ASN	7.7
1	A	1585	THR	7.7
1	B	1093	ASP	7.6
1	A	1224	PHE	7.6
1	C	1101	ARG	7.6
2	E	114	GLN	7.6
1	A	1078	ASN	7.6
1	A	1230	THR	7.6
1	B	1459	ASN	7.5
1	A	1222	SER	7.5
1	A	1297	GLU	7.5
1	B	1437	ASN	7.5
2	E	121	LYS	7.5
2	F	104	LYS	7.5
1	A	1152	GLU	7.4
1	B	1118	LYS	7.4
1	A	1583	LEU	7.4
1	B	1132	ASP	7.3
2	E	115	GLU	7.3

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Mol	Chain	Res	Type	RSRZ
1	A	1150	TRP	7.3
1	C	1135	SER	7.3
1	C	1079	THR	7.3
1	B	1112	ALA	7.3
1	B	1358	TRP	7.3
2	F	122	VAL	7.2
1	B	1105	PRO	7.2
2	D	159	ALA	7.2
1	A	1258	PHE	7.2
2	E	117	ASP	7.2
1	C	1529	LYS	7.1
1	B	1109	SER	7.1
1	B	1206	TYR	7.1
2	D	104	LYS	7.1
1	B	1255	GLU	7.1
1	A	1139	GLU	7.0
1	C	1474	GLU	7.0
1	C	1629	THR	7.0
1	C	1359	ALA	7.0
2	E	125	GLN	7.0
1	B	1207	ASP	7.0
1	A	1381	HIS	7.0
1	B	1122	LYS	6.9
1	B	1147	SER	6.9
1	B	1529	LYS	6.9
1	B	1229	SER	6.9
1	B	1242	ASP	6.9
1	B	1324	TYR	6.9
1	C	1175	PHE	6.9
1	B	1244	ALA	6.9
1	A	1601	GLN	6.8
1	B	1195	ASN	6.8
1	B	1546	ASP	6.8
1	B	1583	LEU	6.8
1	A	1543	GLU	6.8
1	B	1524	SER	6.8
1	B	1179	LYS	6.8
1	C	1252	THR	6.7
1	C	1354	GLN	6.7
2	F	113	LEU	6.7
1	A	1171	THR	6.7
1	B	1167	SER	6.7

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Mol	Chain	Res	Type	RSRZ
1	B	1473	THR	6.7
1	C	1384	ASP	6.7
1	A	1524	SER	6.7
1	B	1169	VAL	6.7
1	A	1542	SER	6.6
1	C	1206	TYR	6.6
2	E	135	LEU	6.6
1	B	1301	THR	6.6
2	D	136	GLU	6.6
1	B	1209	LYS	6.6
1	C	1521	TRP	6.6
1	A	1106	ALA	6.6
2	F	114	GLN	6.5
1	C	1382	PRO	6.5
1	B	1161	ARG	6.5
1	C	1462	SER	6.5
1	A	1133	ASP	6.5
1	B	1534	TYR	6.4
1	B	1210	MET	6.4
1	A	1270	GLN	6.4
1	B	1205	CYS	6.4
1	B	1520	ARG	6.4
1	B	1172	GLU	6.4
1	B	1587	TRP	6.4
1	A	1212	ASP	6.4
1	B	1580	ASP	6.4
1	C	1570	LEU	6.4
1	B	1183	LEU	6.4
1	B	1396	THR	6.4
1	B	1090	GLY	6.3
1	C	1534	TYR	6.3
1	A	1627	THR	6.3
1	A	1606	TYR	6.3
1	B	1142	GLN	6.3
1	C	1293	ARG	6.3
1	B	1384	ASP	6.3
1	B	1214	ALA	6.3
1	B	1117	GLN	6.3
1	A	1514	LEU	6.3
1	B	1180	THR	6.3
1	C	1600	ILE	6.2
2	F	131	ALA	6.2

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Mol	Chain	Res	Type	RSRZ
2	E	109	GLN	6.2
1	C	1520	ARG	6.2
1	B	1275	HIS	6.2
1	C	1117	GLN	6.2
1	B	1171	THR	6.2
1	A	1580	ASP	6.2
1	C	1620	ARG	6.2
1	B	1595	ALA	6.2
1	C	1461	LYS	6.2
1	A	1324	TYR	6.2
1	B	1168	TYR	6.2
2	F	125	GLN	6.1
1	B	1113	LYS	6.1
1	A	1289	TYR	6.1
1	A	1320	LEU	6.1
1	C	1113	LYS	6.1
1	A	1298	GLU	6.1
1	A	1628	GLU	6.1
1	B	1128	TYR	6.1
1	B	1146	THR	6.1
1	A	1200	GLN	6.1
1	B	1488	ASP	6.1
1	B	1103	ASN	6.0
1	C	1118	LYS	6.0
1	B	1269	ALA	6.0
1	B	1232	VAL	6.0
1	B	1216	LEU	6.0
1	B	1213	ALA	6.0
1	B	1181	ASN	6.0
1	B	1340	TRP	6.0
1	A	1526	GLU	5.9
1	B	1188	GLU	5.9
1	C	1255	GLU	5.9
1	A	1461	LYS	5.9
1	C	1262	ASP	5.9
1	A	1281	ASP	5.9
1	B	1120	MET	5.9
1	B	1096	TYR	5.9
1	A	1081	ALA	5.9
1	A	1321	ALA	5.9
1	A	1203	ASP	5.9
1	C	1456	GLN	5.8

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Mol	Chain	Res	Type	RSRZ
1	B	1555	GLN	5.8
1	A	1216	LEU	5.8
2	D	139	ASN	5.8
1	C	1528	CYS	5.8
1	A	1587	TRP	5.8
1	C	1356	HIS	5.8
1	A	1578	ARG	5.8
1	B	1182	ARG	5.7
1	A	1624	GLU	5.7
1	B	1574	TYR	5.7
1	C	1580	ASP	5.7
1	B	1565	CYS	5.7
1	A	1460	ASN	5.7
1	B	1308	GLY	5.7
1	A	1098	PHE	5.7
1	A	1335	HIS	5.7
1	A	1579	PRO	5.7
1	A	1247	ALA	5.7
1	A	1589	HIS	5.7
2	D	120	SER	5.7
1	B	1559	GLN	5.7
1	B	1226	ARG	5.6
1	A	1120	MET	5.6
1	B	1135	SER	5.6
1	B	1101	ARG	5.6
1	B	1230	THR	5.6
1	A	1565	CYS	5.6
1	B	1116	LEU	5.6
1	A	1551	GLU	5.6
1	B	1570	LEU	5.6
1	A	1146	THR	5.6
2	F	106	ARG	5.6
1	A	1213	ALA	5.6
1	A	1331	LYS	5.6
1	B	1212	ASP	5.6
1	C	1239	ALA	5.5
1	C	1109	SER	5.5
2	F	120	SER	5.5
1	C	1110	GLN	5.5
1	A	1396	THR	5.5
1	C	1585	THR	5.5
1	B	1184	ALA	5.5

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Mol	Chain	Res	Type	RSRZ
1	B	1124	ALA	5.5
1	C	1106	ALA	5.5
1	B	1461	LYS	5.5
2	F	152	ASN	5.4
1	A	1211	TYR	5.4
1	C	1084	VAL	5.4
1	C	1229	SER	5.4
1	B	1123	GLU	5.4
1	B	1589	HIS	5.4
2	D	163	GLN	5.4
1	A	1248	ASN	5.4
1	C	1519	ASN	5.4
1	B	1152	GLU	5.4
1	B	1137	TYR	5.4
1	B	1321	ALA	5.4
2	D	143	SER	5.3
1	A	1080	SER	5.3
1	B	1274	LEU	5.3
2	F	98	GLU	5.3
1	A	1253	TRP	5.3
1	B	1190	ILE	5.3
1	A	1462	SER	5.3
2	E	122	VAL	5.3
1	C	1379	MET	5.3
1	B	1200	GLN	5.3
1	C	1357	LEU	5.3
1	B	1354	GLN	5.3
1	B	1262	ASP	5.3
1	C	1222	SER	5.3
2	F	111	LYS	5.3
2	E	149	ASN	5.3
1	C	1230	THR	5.3
1	B	1406	ARG	5.3
1	A	1292	ASP	5.3
1	C	1488	ASP	5.3
1	A	1088	HIS	5.3
1	C	1561	GLU	5.3
1	A	1630	GLN	5.2
2	E	134	ASP	5.2
1	C	1226	ARG	5.2
1	A	1562	LYS	5.2
1	A	1626	ALA	5.2

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Mol	Chain	Res	Type	RSRZ
1	A	1172	GLU	5.2
1	B	1140	VAL	5.2
2	E	116	LEU	5.2
1	B	1475	GLU	5.2
1	B	1197	HIS	5.2
1	B	1263	GLY	5.2
1	A	1577	LEU	5.1
1	C	1275	HIS	5.1
1	B	1131	ALA	5.1
1	C	1213	ALA	5.1
1	A	1084	VAL	5.1
1	B	1154	VAL	5.1
2	E	137	GLU	5.1
1	C	1205	CYS	5.1
1	A	1427	SER	5.1
1	A	1340	TRP	5.1
1	A	1358	TRP	5.1
1	B	1575	ASP	5.1
1	C	1172	GLU	5.1
1	A	1178	ALA	5.1
1	C	1598	TYR	5.1
1	A	1210	MET	5.1
1	B	1514	LEU	5.0
1	C	1595	ALA	5.0
2	F	93	ASP	5.0
1	B	1126	ASP	5.0
2	F	136	GLU	5.0
1	C	1223	ASN	5.0
1	B	1561	GLU	5.0
1	C	1437	ASN	5.0
1	C	1626	ALA	5.0
1	A	1293	ARG	5.0
1	A	1092	LEU	4.9
1	A	1087	GLU	4.9
1	A	1475	GLU	4.9
1	B	1551	GLU	4.9
1	B	1588	ARG	4.9
1	B	1193	PRO	4.9
1	C	1543	GLU	4.9
2	F	107	GLU	4.9
1	A	1165	ARG	4.9
1	B	1538	MET	4.9

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Mol	Chain	Res	Type	RSRZ
1	A	1561	GLU	4.9
1	B	1104	GLU	4.9
1	B	1129	ILE	4.9
1	C	1395	ILE	4.9
1	C	1472	ILE	4.9
1	B	1175	PHE	4.9
1	A	1265	GLU	4.9
1	B	1150	TRP	4.9
1	A	1393	ASP	4.9
1	A	1422	LEU	4.9
1	C	1487	TYR	4.9
1	A	1333	ARG	4.9
1	B	1155	LYS	4.9
1	B	1080	SER	4.9
2	F	163	GLN	4.9
1	B	1434	ARG	4.9
1	A	1377	THR	4.9
1	A	1274	LEU	4.9
1	C	1090	GLY	4.8
2	F	157	ASP	4.8
1	A	1142	GLN	4.8
1	B	1433	THR	4.8
1	A	1418	LEU	4.8
1	C	1525	VAL	4.8
1	C	1583	LEU	4.8
1	B	1482	THR	4.8
1	A	1294	GLY	4.8
1	A	1515	PHE	4.8
1	B	1578	ARG	4.8
2	D	132	LYS	4.8
2	D	109	GLN	4.8
2	D	127	TRP	4.8
1	C	1331	LYS	4.8
1	A	1280	ALA	4.8
1	A	1147	SER	4.8
2	F	99	PRO	4.8
1	A	1102	CYS	4.8
1	C	1611	ASP	4.8
1	C	1562	LYS	4.8
1	A	1118	LYS	4.8
1	A	1611	ASP	4.8
2	D	153	ASN	4.8

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Mol	Chain	Res	Type	RSRZ
1	A	1255	GLU	4.7
1	B	1187	GLU	4.7
2	F	96	THR	4.7
1	B	1204	ARG	4.7
1	B	1261	VAL	4.7
1	B	1582	VAL	4.7
1	B	1377	THR	4.7
1	B	1571	PHE	4.7
1	B	1202	GLY	4.7
1	A	1429	ARG	4.7
1	B	1614	ASP	4.7
1	C	1473	THR	4.7
1	A	1215	LYS	4.7
1	A	1261	VAL	4.7
1	C	1438	TYR	4.7
1	A	1193	PRO	4.7
1	A	1563	ARG	4.7
1	C	1565	CYS	4.7
1	A	1594	PHE	4.7
2	F	103	ARG	4.7
1	A	1110	GLN	4.7
1	B	1379	MET	4.7
1	A	1574	TYR	4.7
1	B	1368	TYR	4.7
2	E	150	LYS	4.7
1	C	1574	TYR	4.6
1	A	1582	VAL	4.6
1	A	1330	GLN	4.6
1	C	1123	GLU	4.6
2	F	105	TRP	4.6
1	A	1597	PRO	4.6
1	C	1301	THR	4.6
1	C	1482	THR	4.6
2	E	131	ALA	4.6
1	B	1111	LEU	4.6
1	C	1272	CYS	4.6
1	B	1160	ALA	4.6
1	C	1244	ALA	4.6
1	C	1119	GLY	4.6
1	C	1589	HIS	4.6
1	A	1384	ASP	4.5
1	A	1531	ASP	4.5

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Mol	Chain	Res	Type	RSRZ
1	C	1606	TYR	4.5
1	B	1114	ALA	4.5
1	A	1195	ASN	4.5
1	A	1166	GLU	4.5
1	C	1211	TYR	4.5
1	B	1607	LEU	4.5
1	C	1102	CYS	4.5
1	B	1441	LYS	4.5
1	B	1293	ARG	4.5
1	B	1292	ASP	4.5
1	B	1279	HIS	4.5
1	B	1249	SER	4.5
1	C	1333	ARG	4.5
2	F	121	LYS	4.5
1	B	1220	ASN	4.5
1	B	1087	GLU	4.5
2	D	160	PHE	4.5
1	A	1454	SER	4.5
1	B	1326	LYS	4.4
1	C	1155	LYS	4.4
1	A	1232	VAL	4.4
1	A	1523	GLN	4.4
1	A	1476	ASP	4.4
1	A	1295	TYR	4.4
2	E	141	ARG	4.4
1	A	1506	GLU	4.4
1	A	1260	CYS	4.4
1	A	1602	VAL	4.4
1	C	1385	ALA	4.4
1	A	1576	LEU	4.4
1	C	1291	GLN	4.4
1	C	1594	PHE	4.4
1	C	1147	SER	4.4
1	C	1227	LEU	4.4
1	B	1250	THR	4.4
1	C	1097	GLU	4.4
2	E	142	GLN	4.4
2	F	148	LYS	4.4
1	A	1588	ARG	4.4
1	C	1578	ARG	4.4
1	C	1608	THR	4.4
2	F	110	ARG	4.4

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Mol	Chain	Res	Type	RSRZ
1	A	1278	VAL	4.4
2	F	159	ALA	4.3
2	E	103	ARG	4.3
1	C	1120	MET	4.3
1	B	1337	GLU	4.3
1	B	1519	ASN	4.3
1	A	1481	ARG	4.3
1	B	1225	GLY	4.3
1	B	1162	LYS	4.3
1	C	1604	LYS	4.3
1	A	1131	ALA	4.3
1	C	1615	ALA	4.3
1	B	1186	LEU	4.3
1	C	1146	THR	4.3
1	C	1560	GLU	4.3
1	B	1420	ASN	4.3
1	B	1356	HIS	4.3
1	A	1252	THR	4.3
1	B	1286	LEU	4.3
1	C	1535	LYS	4.3
1	A	1369	GLU	4.3
1	B	1089	ILE	4.3
1	A	1411	TYR	4.3
1	C	1257	CYS	4.3
1	A	1231	LEU	4.3
1	A	1483	SER	4.3
1	C	1088	HIS	4.3
1	C	1375	ILE	4.3
1	A	1130	LYS	4.3
1	A	1205	CYS	4.3
1	A	1233	HIS	4.2
1	A	1622	GLU	4.2
1	C	1271	MET	4.2
1	C	1613	LEU	4.2
1	B	1227	LEU	4.2
1	C	1187	GLU	4.2
1	A	1192	GLY	4.2
1	A	1432	HIS	4.2
1	B	1136	SER	4.2
1	C	1628	GLU	4.2
1	A	1083	GLN	4.2
1	C	1588	ARG	4.2

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Mol	Chain	Res	Type	RSRZ
1	A	1595	ALA	4.2
1	B	1264	LYS	4.2
1	C	1465	GLU	4.2
2	E	124	GLU	4.2
1	A	1290	TYR	4.2
1	B	1092	LEU	4.2
1	B	1624	GLU	4.2
1	C	1289	TYR	4.2
1	B	1399	ALA	4.2
1	A	1489	ASN	4.2
1	B	1504	LEU	4.2
2	E	110	ARG	4.1
1	B	1158	GLN	4.1
1	A	1096	TYR	4.1
1	C	1576	LEU	4.1
2	F	132	LYS	4.1
1	A	1399	ALA	4.1
1	A	1408	ILE	4.1
1	B	1108	TRP	4.1
1	B	1563	ARG	4.1
1	C	1241	VAL	4.1
1	A	1473	THR	4.1
1	C	1309	LEU	4.1
1	C	1300	ILE	4.1
1	A	1113	LYS	4.1
1	A	1581	VAL	4.1
1	B	1584	GLU	4.1
1	C	1555	GLN	4.1
1	C	1542	SER	4.1
2	E	102	ILE	4.1
1	A	1521	TRP	4.1
1	B	1314	MET	4.1
1	C	1623	GLU	4.1
1	B	1320	LEU	4.1
1	C	1540	TYR	4.1
1	B	1431	ASP	4.0
1	C	1096	TYR	4.0
1	C	1483	SER	4.0
1	B	1594	PHE	4.0
1	C	1224	PHE	4.0
1	A	1116	LEU	4.0
1	B	1474	GLU	4.0

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Mol	Chain	Res	Type	RSRZ
1	A	1246	LYS	4.0
1	A	1091	ASN	4.0
1	A	1464	ASN	4.0
1	B	1440	SER	4.0
1	A	1264	LYS	4.0
1	C	1374	ALA	4.0
1	C	1429	ARG	4.0
1	C	1481	ARG	4.0
1	B	1581	VAL	4.0
1	B	1149	ASN	4.0
1	A	1466	SER	4.0
1	B	1338	LEU	4.0
1	A	1392	LYS	4.0
1	A	1188	GLU	4.0
1	A	1623	GLU	4.0
2	F	124	GLU	4.0
1	A	1625	GLN	4.0
1	B	1211	TYR	4.0
2	E	152	ASN	4.0
1	A	1301	THR	4.0
1	C	1154	VAL	4.0
1	C	1624	GLU	4.0
1	B	1192	GLY	4.0
1	A	1559	GLN	4.0
1	B	1523	GLN	4.0
1	C	1178	ALA	4.0
1	B	1339	PHE	4.0
1	C	1100	GLU	4.0
1	C	1517	GLY	4.0
1	C	1212	ASP	4.0
1	B	1198	ILE	4.0
2	E	151	ILE	4.0
1	A	1269	ALA	4.0
1	C	1427	SER	4.0
1	B	1304	GLU	3.9
1	B	1095	ALA	3.9
1	C	1544	SER	3.9
1	A	1430	LEU	3.9
1	A	1420	ASN	3.9
2	E	139	ASN	3.9
1	A	1334	GLU	3.9
2	D	115	GLU	3.9

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Mol	Chain	Res	Type	RSRZ
2	D	117	ASP	3.9
1	A	1414	PHE	3.9
1	C	1410	PHE	3.9
1	C	1340	TRP	3.9
1	C	1400	ASN	3.9
1	C	1319	GLU	3.9
2	D	141	ARG	3.9
1	A	1407	ALA	3.9
1	C	1093	ASP	3.9
2	E	127	TRP	3.9
2	F	133	LYS	3.9
1	C	1266	PHE	3.9
1	A	1421	ASP	3.9
1	C	1263	GLY	3.9
1	A	1151	GLU	3.9
1	A	1426	LEU	3.9
1	B	1602	VAL	3.9
1	A	1444	GLN	3.8
1	A	1555	GLN	3.8
1	B	1560	GLU	3.8
1	A	1257	CYS	3.8
1	B	1393	ASP	3.8
1	B	1606	TYR	3.8
2	F	112	ARG	3.8
1	C	1622	GLU	3.8
2	F	153	ASN	3.8
1	B	1148	GLY	3.8
1	C	1538	MET	3.8
1	C	1603	MET	3.8
1	B	1322	ILE	3.8
1	A	1572	THR	3.8
1	B	1177	LEU	3.8
1	C	1597	PRO	3.8
1	A	1356	HIS	3.8
1	B	1569	CYS	3.8
2	D	150	LYS	3.8
1	A	1600	ILE	3.8
1	B	1185	GLU	3.8
1	B	1208	GLU	3.8
1	C	1080	SER	3.8
1	B	1525	VAL	3.8
1	B	1125	ILE	3.8

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Mol	Chain	Res	Type	RSRZ
2	D	169	ILE	3.8
1	A	1450	PRO	3.7
2	E	95	LEU	3.7
1	C	1179	LYS	3.7
1	B	1163	LYS	3.7
1	A	1500	GLU	3.7
2	E	126	GLU	3.7
2	D	162	GLN	3.7
1	A	1259	ALA	3.7
1	B	1143	ALA	3.7
1	B	1359	ALA	3.7
1	C	1210	MET	3.7
1	C	1402	GLU	3.7
1	A	1134	PRO	3.7
1	A	1539	GLN	3.7
1	B	1492	ASN	3.7
1	C	1248	ASN	3.7
2	F	95	LEU	3.7
1	C	1240	ALA	3.7
1	B	1260	CYS	3.7
1	A	1605	GLU	3.7
2	F	115	GLU	3.7
2	F	167	ASP	3.7
1	A	1128	TYR	3.7
1	B	1110	GLN	3.7
1	B	1238	GLN	3.7
2	F	139	ASN	3.7
1	B	1251	ARG	3.7
1	A	1388	GLU	3.7
1	C	1193	PRO	3.7
1	B	1375	ILE	3.7
1	A	1169	VAL	3.7
1	B	1325	SER	3.7
1	C	1563	ARG	3.7
1	B	1629	THR	3.7
1	A	1607	LEU	3.7
1	C	1216	LEU	3.7
1	B	1622	GLU	3.7
1	B	1159	MET	3.6
1	C	1127	SER	3.6
1	A	1499	LEU	3.6
1	A	1155	LYS	3.6

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Mol	Chain	Res	Type	RSRZ
1	C	1475	GLU	3.6
2	D	124	GLU	3.6
1	A	1206	TYR	3.6
1	B	1486	ALA	3.6
1	A	1488	ASP	3.6
1	B	1567	GLY	3.6
1	C	1184	ALA	3.6
1	A	1596	MET	3.6
2	F	117	ASP	3.6
1	A	1558	LEU	3.6
1	C	1619	LEU	3.6
1	A	1300	ILE	3.6
1	A	1143	ALA	3.6
1	A	1496	ALA	3.6
1	A	1584	GLU	3.6
1	B	1236	GLU	3.6
2	F	156	ALA	3.6
1	A	1221	VAL	3.6
1	C	1403	LEU	3.6
1	B	1215	LYS	3.6
1	B	1532	SER	3.6
1	A	1591	ILE	3.6
1	B	1257	CYS	3.6
1	B	1231	LEU	3.6
1	A	1354	GLN	3.6
2	D	140	GLN	3.6
1	B	1491	ASP	3.6
1	B	1531	ASP	3.6
1	C	1251	ARG	3.6
1	C	1515	PHE	3.6
1	B	1400	ASN	3.6
1	C	1464	ASN	3.6
2	D	135	LEU	3.5
1	A	1359	ALA	3.5
1	A	1337	GLU	3.5
1	A	1117	GLN	3.5
1	A	1201	VAL	3.5
1	C	1111	LEU	3.5
1	C	1431	ASP	3.5
1	B	1218	TYR	3.5
1	B	1386	TRP	3.5
1	C	1353	GLU	3.5

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Mol	Chain	Res	Type	RSRZ
1	C	1547	THR	3.5
1	A	1107	VAL	3.5
1	C	1596	MET	3.5
1	B	1290	TYR	3.5
1	C	1328	LYS	3.5
1	A	1474	GLU	3.5
1	C	1492	ASN	3.5
2	D	144	GLU	3.5
1	A	1202	GLY	3.5
1	C	1237	TYR	3.5
1	A	1570	LEU	3.5
1	A	1238	GLN	3.5
1	B	1416	PRO	3.5
1	C	1292	ASP	3.5
2	F	134	ASP	3.5
1	B	1268	LEU	3.5
2	F	127	TRP	3.5
1	B	1145	ASN	3.5
1	C	1383	THR	3.5
1	B	1418	LEU	3.5
1	B	1298	GLU	3.5
1	B	1413	GLU	3.5
2	E	146	VAL	3.5
1	A	1428	PRO	3.5
1	C	1587	TRP	3.4
1	A	1424	MET	3.4
2	F	108	GLU	3.4
2	F	137	GLU	3.4
1	A	1329	PRO	3.4
1	B	1597	PRO	3.4
1	B	1221	VAL	3.4
2	E	111	LYS	3.4
1	C	1506	GLU	3.4
1	A	1167	SER	3.4
1	A	1544	SER	3.4
1	C	1532	SER	3.4
1	C	1498	ARG	3.4
1	A	1538	MET	3.4
1	A	1564	GLU	3.4
1	B	1478	GLN	3.4
1	B	1579	PRO	3.4
1	C	1142	GLN	3.4

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Mol	Chain	Res	Type	RSRZ
1	C	1433	THR	3.4
1	A	1525	VAL	3.4
1	A	1604	LYS	3.4
1	B	1403	LEU	3.4
1	B	1477	TYR	3.4
1	A	1425	VAL	3.4
1	A	1385	ALA	3.4
1	A	1511	ALA	3.4
1	C	1407	ALA	3.4
1	A	1338	LEU	3.4
1	B	1577	LEU	3.4
1	A	1308	GLY	3.4
1	B	1596	MET	3.3
1	A	1190	ILE	3.3
1	C	1325	SER	3.3
1	C	1396	THR	3.3
1	B	1522	LYS	3.3
2	E	153	ASN	3.3
1	A	1598	TYR	3.3
1	C	1295	TYR	3.3
1	A	1510	ILE	3.3
1	B	1457	ASN	3.3
1	B	1599	PHE	3.3
1	C	1507	PHE	3.3
1	C	1138	MET	3.3
1	B	1562	LYS	3.3
1	B	1107	VAL	3.3
1	B	1241	VAL	3.3
1	A	1275	HIS	3.3
1	B	1598	TYR	3.3
1	C	1564	GLU	3.3
1	A	1273	GLY	3.3
1	A	1339	PHE	3.3
2	E	106	ARG	3.3
1	B	1506	GLU	3.3
1	B	1291	GLN	3.3
1	A	1105	PRO	3.3
1	A	1174	ILE	3.3
1	A	1236	GLU	3.2
1	B	1294	GLY	3.2
1	C	1392	LYS	3.2
1	B	1539	GLN	3.2

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Mol	Chain	Res	Type	RSRZ
1	C	1490	PHE	3.2
2	D	128	ARG	3.2
1	B	1134	PRO	3.2
1	C	1373	ASN	3.2
1	A	1465	GLU	3.2
1	C	1526	GLU	3.2
1	B	1270	GLN	3.2
1	B	1410	PHE	3.2
1	B	1247	ALA	3.2
1	A	1437	ASN	3.2
1	B	1102	CYS	3.2
1	B	1272	CYS	3.2
1	C	1630	GLN	3.2
2	D	145	GLN	3.2
1	A	1440	SER	3.2
1	A	1608	THR	3.2
1	B	1414	PHE	3.2
1	A	1552	GLU	3.2
1	B	1319	GLU	3.2
1	B	1605	GLU	3.2
1	C	1360	GLU	3.2
1	A	1512	ALA	3.2
1	B	1083	GLN	3.2
1	C	1228	ALA	3.2
2	F	92	ALA	3.2
1	A	1610	VAL	3.2
1	B	1608	THR	3.2
1	C	1270	GLN	3.2
1	B	1566	PHE	3.2
1	B	1500	GLU	3.2
1	C	1586	ALA	3.2
1	B	1392	LYS	3.2
2	F	164	PRO	3.2
1	B	1600	ILE	3.2
1	C	1351	ALA	3.2
1	A	1180	THR	3.1
1	B	1454	SER	3.1
1	A	1409	GLN	3.1
2	D	99	PRO	3.1
1	B	1267	ARG	3.1
1	C	1294	GLY	3.1
2	E	128	ARG	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	1095	ALA	3.1
1	B	1601	GLN	3.1
1	C	1409	GLN	3.1
1	C	1455	VAL	3.1
1	B	1203	ASP	3.1
1	B	1402	GLU	3.1
1	C	1616	SER	3.1
1	A	1571	PHE	3.1
1	B	1382	PRO	3.1
1	A	1522	LYS	3.1
1	C	1139	GLU	3.1
1	C	1421	ASP	3.1
1	C	1156	TYR	3.1
1	B	1493	ILE	3.1
1	C	1316	MET	3.1
1	B	1518	ASN	3.1
1	B	1564	GLU	3.1
1	A	1372	ASP	3.1
1	B	1485	ASP	3.1
1	C	1114	ALA	3.1
1	A	1569	CYS	3.1
1	B	1572	THR	3.1
1	B	1611	ASP	3.1
1	C	1485	ASP	3.1
2	D	134	ASP	3.1
1	B	1556	TRP	3.1
1	C	1452	LEU	3.1
1	C	1514	LEU	3.1
1	C	1197	HIS	3.1
1	A	1387	LYS	3.1
2	E	132	LYS	3.1
1	A	1493	ILE	3.1
1	C	1605	GLU	3.1
1	A	1119	GLY	3.0
1	A	1567	GLY	3.0
1	C	1186	LEU	3.0
1	A	1136	SER	3.0
1	A	1242	ASP	3.0
1	B	1407	ALA	3.0
1	B	1476	ASP	3.0
1	C	1454	SER	3.0
1	C	1524	SER	3.0

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Mol	Chain	Res	Type	RSRZ
2	E	118	ALA	3.0
1	A	1094	ARG	3.0
1	B	1350	ARG	3.0
1	C	1198	ILE	3.0
2	F	140	GLN	3.0
2	D	166	ALA	3.0
1	A	1599	PHE	3.0
1	A	1455	VAL	3.0
1	B	1248	ASN	3.0
1	C	1457	ASN	3.0
1	A	1404	TYR	3.0
1	B	1540	TYR	3.0
2	F	100	GLU	3.0
1	A	1226	ARG	3.0
1	B	1252	THR	3.0
1	C	1522	LYS	3.0
1	A	1191	ASN	3.0
1	C	1085	LEU	3.0
1	A	1272	CYS	3.0
1	A	1382	PRO	3.0
1	C	1134	PRO	3.0
1	C	1148	GLY	3.0
1	A	1507	PHE	3.0
1	A	1550	ALA	3.0
1	C	1124	ALA	3.0
1	C	1486	ALA	3.0
1	C	1434	ARG	3.0
1	B	1421	ASP	3.0
1	B	1593	ASP	3.0
1	C	1078	ASN	3.0
1	A	1478	GLN	3.0
1	A	1482	THR	3.0
1	A	1502	HIS	3.0
1	B	1513	TYR	3.0
1	B	1568	ALA	3.0
1	C	1189	PHE	3.0
2	E	148	LYS	3.0
1	C	1584	GLU	3.0
2	F	118	ALA	3.0
2	F	126	GLU	3.0
2	D	113	LEU	2.9
1	C	1215	LYS	2.9

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Mol	Chain	Res	Type	RSRZ
1	C	1218	TYR	2.9
1	C	1372	ASP	2.9
1	A	1099	ALA	2.9
1	A	1123	GLU	2.9
1	B	1554	LEU	2.9
1	C	1552	GLU	2.9
1	C	1137	TYR	2.9
1	B	1281	ASP	2.9
1	B	1483	SER	2.9
1	C	1393	ASP	2.9
1	A	1322	ILE	2.9
1	C	1432	HIS	2.9
1	A	1319	GLU	2.9
1	B	1388	GLU	2.9
1	B	1085	LEU	2.9
1	C	1484	ILE	2.9
2	D	146	VAL	2.9
1	C	1617	GLU	2.9
2	E	136	GLU	2.9
1	A	1415	LYS	2.9
1	A	1484	ILE	2.9
1	C	1476	ASP	2.9
2	D	121	LYS	2.9
1	C	1412	LEU	2.9
1	C	1513	TYR	2.9
1	A	1249	SER	2.9
1	A	1540	TYR	2.8
2	F	144	GLU	2.8
1	B	1385	ALA	2.8
1	B	1189	PHE	2.8
1	A	1413	GLU	2.8
1	A	1237	TYR	2.8
1	A	1603	MET	2.8
1	A	1209	LYS	2.8
1	A	1549	LEU	2.8
1	B	1515	PHE	2.8
1	C	1150	TRP	2.8
1	A	1469	ASN	2.8
1	A	1186	LEU	2.8
1	C	1204	ARG	2.8
1	B	1617	GLU	2.8
1	C	1334	GLU	2.8

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Mol	Chain	Res	Type	RSRZ
2	E	108	GLU	2.8
1	A	1451	TYR	2.8
1	B	1528	CYS	2.8
1	C	1329	PRO	2.8
2	F	155	ILE	2.8
1	A	1122	LYS	2.8
1	C	1253	TRP	2.8
2	D	126	GLU	2.8
1	A	1328	LYS	2.8
1	B	1265	GLU	2.8
2	D	92	ALA	2.8
2	D	157	ASP	2.8
1	B	1266	PHE	2.8
1	B	1472	ILE	2.7
2	F	128	ARG	2.7
1	A	1458	HIS	2.7
1	A	1568	ALA	2.7
1	C	1298	GLU	2.7
2	E	133	LYS	2.7
1	A	1503	GLU	2.7
1	B	1471	PHE	2.7
1	A	1398	VAL	2.7
1	B	1389	GLY	2.7
1	B	1489	ASN	2.7
1	B	1503	GLU	2.7
1	C	1413	GLU	2.7
1	C	1625	GLN	2.7
2	E	129	GLU	2.7
1	B	1277	VAL	2.7
1	C	1480	LEU	2.7
1	A	1194	ASN	2.7
1	A	1112	ALA	2.7
1	B	1438	TYR	2.7
1	C	1327	PHE	2.7
1	C	1200	GLN	2.7
1	C	1376	ILE	2.7
1	B	1084	VAL	2.7
1	A	1433	THR	2.7
1	C	1130	LYS	2.7
1	B	1527	LEU	2.7
1	A	1288	ASN	2.7
1	A	1406	ARG	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	1509	ARG	2.7
1	C	1581	VAL	2.7
1	B	1383	THR	2.7
1	C	1243	GLY	2.7
1	A	1438	TYR	2.7
1	C	1159	MET	2.7
1	C	1509	ARG	2.7
1	C	1260	CYS	2.7
1	A	1135	SER	2.7
1	C	1249	SER	2.7
1	A	1586	ALA	2.6
1	B	1586	ALA	2.6
1	C	1306	ALA	2.6
1	A	1218	TYR	2.6
1	C	1451	TYR	2.6
1	A	1271	MET	2.6
1	B	1428	PRO	2.6
1	C	1463	VAL	2.6
2	D	95	LEU	2.6
2	E	119	ALA	2.6
1	C	1416	PRO	2.6
1	B	1557	PHE	2.6
1	A	1228	ALA	2.6
1	A	1250	THR	2.6
1	B	1082	VAL	2.6
1	B	1333	ARG	2.6
1	A	1613	LEU	2.6
1	C	1315	GLY	2.6
2	F	160	PHE	2.6
1	C	1322	ILE	2.6
1	C	1453	ARG	2.6
1	B	1450	PRO	2.6
1	A	1400	ASN	2.6
1	C	1219	ASN	2.6
1	A	1254	LYS	2.6
1	C	1352	ALA	2.6
2	D	112	ARG	2.6
2	D	164	PRO	2.6
1	B	1335	HIS	2.6
1	C	1567	GLY	2.6
1	C	1612	LYS	2.6
1	C	1435	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	1532	SER	2.6
1	C	1386	TRP	2.6
1	A	1183	LEU	2.6
1	A	1299	LEU	2.6
1	A	1336	LEU	2.6
1	B	1623	GLU	2.6
2	F	129	GLU	2.6
1	B	1259	ALA	2.6
1	C	1590	ASN	2.6
1	C	1404	TYR	2.6
1	A	1108	TRP	2.5
1	A	1556	TRP	2.5
1	A	1417	LEU	2.5
1	A	1614	ASP	2.5
2	E	104	LYS	2.5
1	A	1196	ALA	2.5
1	A	1304	GLU	2.5
1	C	1158	GLN	2.5
1	C	1238	GLN	2.5
2	D	165	ASP	2.5
1	A	1612	LYS	2.5
1	B	1253	TRP	2.5
1	A	1101	ARG	2.5
1	A	1138	MET	2.5
1	C	1112	ALA	2.5
1	C	1614	ASP	2.5
1	C	1501	LYS	2.5
1	A	1554	LEU	2.5
1	C	1505	ILE	2.5
1	A	1267	ARG	2.5
1	A	1164	ALA	2.5
1	B	1511	ALA	2.5
1	B	1630	GLN	2.5
2	D	129	GLU	2.5
1	A	1590	ASN	2.5
2	D	149	ASN	2.5
1	A	1397	LYS	2.5
1	C	1258	PHE	2.5
1	A	1129	ILE	2.5
1	A	1446	PRO	2.5
1	A	1434	ARG	2.5
1	C	1107	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
1	C	1225	GLY	2.5
1	B	1535	LYS	2.5
1	C	1545	LYS	2.5
1	B	1327	PHE	2.5
1	B	1490	PHE	2.5
1	B	1526	GLU	2.5
2	D	100	GLU	2.5
1	A	1593	ASP	2.5
2	D	167	ASP	2.5
1	B	1498	ARG	2.5
2	D	122	VAL	2.5
1	C	1518	ASN	2.5
1	C	1122	LYS	2.5
1	A	1282	GLU	2.4
1	C	1362	VAL	2.4
1	C	1579	PRO	2.4
1	A	1314	MET	2.4
1	C	1420	ASN	2.4
1	B	1549	LEU	2.4
1	C	1423	LEU	2.4
1	C	1151	GLU	2.4
1	C	1390	GLN	2.4
1	B	1509	ARG	2.4
1	C	1610	VAL	2.4
2	E	105	TRP	2.4
1	A	1456	GLN	2.4
1	B	1508	ARG	2.4
2	E	100	GLU	2.4
1	C	1449	LYS	2.4
1	A	1533	LEU	2.4
2	E	155	ILE	2.4
1	A	1137	TYR	2.4
1	A	1390	GLN	2.4
1	C	1601	GLN	2.4
1	B	1328	LYS	2.4
1	A	1160	ALA	2.4
1	B	1224	PHE	2.4
1	C	1366	ASP	2.4
1	A	1376	ILE	2.4
1	C	1288	ASN	2.4
1	A	1350	ARG	2.4
1	C	1297	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
1	C	1503	GLU	2.4
1	C	1523	GLN	2.4
2	D	107	GLU	2.4
1	B	1533	LEU	2.4
1	C	1274	LEU	2.4
1	C	1504	LEU	2.4
1	B	1280	ALA	2.4
1	A	1394	ILE	2.4
2	F	165	ASP	2.4
1	B	1219	ASN	2.4
1	B	1443	LYS	2.4
1	A	1575	ASP	2.4
1	B	1530	LYS	2.4
1	C	1387	LYS	2.4
1	C	1430	LEU	2.4
1	B	1628	GLU	2.3
2	F	166	ALA	2.3
1	B	1245	ARG	2.3
1	A	1495	LEU	2.3
1	A	1219	ASN	2.3
1	A	1471	PHE	2.3
1	A	1519	ASN	2.3
1	B	1456	GLN	2.3
1	C	1444	GLN	2.3
1	A	1449	LYS	2.3
1	C	1162	LYS	2.3
2	E	123	MET	2.3
1	B	1173	LEU	2.3
2	F	135	LEU	2.3
1	A	1566	PHE	2.3
1	A	1560	GLU	2.3
1	B	1228	ALA	2.3
1	B	1591	ILE	2.3
2	F	151	ILE	2.3
1	B	1552	GLU	2.3
1	B	1079	THR	2.3
1	A	1251	ARG	2.3
1	A	1268	LEU	2.3
1	B	1427	SER	2.3
1	A	1513	TYR	2.3
1	B	1432	HIS	2.3
1	C	1414	PHE	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	1145	ASN	2.3
1	B	1444	GLN	2.3
2	E	147	GLU	2.3
1	A	1379	MET	2.3
1	B	1398	VAL	2.3
1	C	1558	LEU	2.3
2	F	141	ARG	2.3
1	C	1466	SER	2.3
1	C	1308	GLY	2.3
1	A	1256	VAL	2.3
1	B	1425	VAL	2.3
1	C	1491	ASP	2.3
1	C	1531	ASP	2.3
1	C	1236	GLU	2.3
1	C	1378	MET	2.3
1	A	1220	ASN	2.3
1	C	1108	TRP	2.3
1	C	1089	ILE	2.3
1	A	1529	LYS	2.3
1	C	1609	LYS	2.3
1	C	1436	VAL	2.3
2	F	154	ARG	2.3
1	C	1185	GLU	2.2
1	B	1487	TYR	2.2
1	A	1535	LYS	2.2
1	B	1462	SER	2.2
1	A	1241	VAL	2.2
1	A	1323	LEU	2.2
1	B	1467	LEU	2.2
1	A	1498	ARG	2.2
2	F	94	ARG	2.2
1	C	1282	GLU	2.2
1	C	1468	ASN	2.2
2	E	138	TRP	2.2
1	C	1250	THR	2.2
1	B	1544	SER	2.2
1	C	1131	ALA	2.2
1	A	1505	ILE	2.2
1	C	1391	PHE	2.2
1	B	1449	LYS	2.2
1	A	1504	LEU	2.2
1	B	1217	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	1199	GLN	2.2
1	B	1409	GLN	2.2
1	C	1439	PHE	2.2
1	A	1609	LYS	2.2
1	C	1281	ASP	2.2
1	A	1204	ARG	2.2
1	A	1395	ILE	2.2
1	C	1129	ILE	2.2
1	B	1331	LYS	2.2
2	F	150	LYS	2.2
1	A	1114	ALA	2.2
1	C	1450	PRO	2.2
1	A	1189	PHE	2.2
1	C	1136	SER	2.2
1	A	1227	LEU	2.2
2	F	123	MET	2.2
1	B	1144	ALA	2.2
1	B	1550	ALA	2.2
1	A	1557	PHE	2.2
1	A	1423	LEU	2.2
1	A	1528	CYS	2.2
1	A	1620	ARG	2.2
1	B	1315	GLY	2.1
1	A	1416	PRO	2.1
2	D	119	ALA	2.1
1	C	1417	LEU	2.1
1	A	1214	ALA	2.1
1	C	1280	ALA	2.1
1	A	1276	ILE	2.1
1	B	1507	PHE	2.1
1	C	1145	ASN	2.1
1	A	1436	VAL	2.1
1	A	1311	ARG	2.1
1	B	1302	MET	2.1
1	B	1371	TYR	2.1
1	B	1429	ARG	2.1
1	C	1128	TYR	2.1
1	C	1199	GLN	2.1
2	D	91	GLN	2.1
2	D	142	GLN	2.1
1	A	1360	GLU	2.1
1	B	1297	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	1351	ALA	2.1
1	C	1273	GLY	2.1
2	D	138	TRP	2.1
1	A	1480	LEU	2.1
1	B	1317	PHE	2.1
1	B	1501	LYS	2.1
1	B	1510	ILE	2.1
1	A	1547	THR	2.1
2	F	116	LEU	2.1
1	A	1132	ASP	2.1
1	C	1180	THR	2.1
1	C	1502	HIS	2.1
1	A	1441	LYS	2.1
1	B	1178	ALA	2.1
1	B	1243	GLY	2.1
1	C	1188	GLU	2.1
1	C	1221	VAL	2.1
1	A	1161	ARG	2.1
1	A	1168	TYR	2.1
1	B	1309	LEU	2.1
1	A	1185	GLU	2.1
1	B	1391	PHE	2.1
1	B	1395	ILE	2.1
1	C	1208	GLU	2.1
1	C	1428	PRO	2.1
1	A	1153	LEU	2.0
1	A	1347	LYS	2.0
1	A	1367	LYS	2.0
1	B	1246	LYS	2.0
1	C	1577	LEU	2.0
1	A	1317	PHE	2.0
1	A	1389	GLY	2.0
1	C	1247	ALA	2.0
1	A	1291	GLN	2.0
1	A	1501	LYS	2.0
2	D	116	LEU	2.0
1	B	1239	ALA	2.0
1	A	1518	ASN	2.0
1	C	1330	GLN	2.0
1	A	1208	GLU	2.0
1	C	1182	ARG	2.0
1	A	1341	SER	2.0

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Mol	Chain	Res	Type	RSRZ
1	B	1367	LYS	2.0
1	B	1558	LEU	2.0
1	C	1320	LEU	2.0
1	C	1607	LEU	2.0
1	A	1198	ILE	2.0
1	A	1279	HIS	2.0
1	B	1625	GLN	2.0
1	C	1103	ASN	2.0
1	B	1283	LEU	2.0
1	B	1412	LEU	2.0
1	C	1533	LEU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.