



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 11:23 AM UTC

PDB ID : 3LVH / pdb_00003lvh
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 : 9.00 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

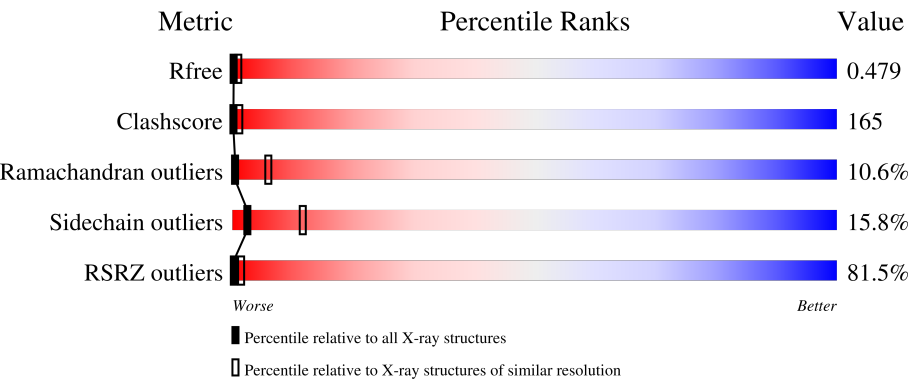
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
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 9.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
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	76% 10% 49% 25% 5% 11%
1	B	624	71% 9% 49% 25% 5% 11%
1	C	624	67% 10% 49% 25% 5% 11%
2	D	205	36% 9% 28% 15% . 45%
2	E	205	30% 8% 25% 11% 5% 50%

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Mol	Chain	Length	Quality of chain
2	F	205	34% 7% 28% 17% 45%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 16020 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	554	Total	C	N	O	S	0	0	0
			4550	2901	768	856	25			
1	B	554	Total	C	N	O	S	0	0	0
			4550	2901	768	856	25			
1	C	554	Total	C	N	O	S	0	0	0
			4550	2901	768	856	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

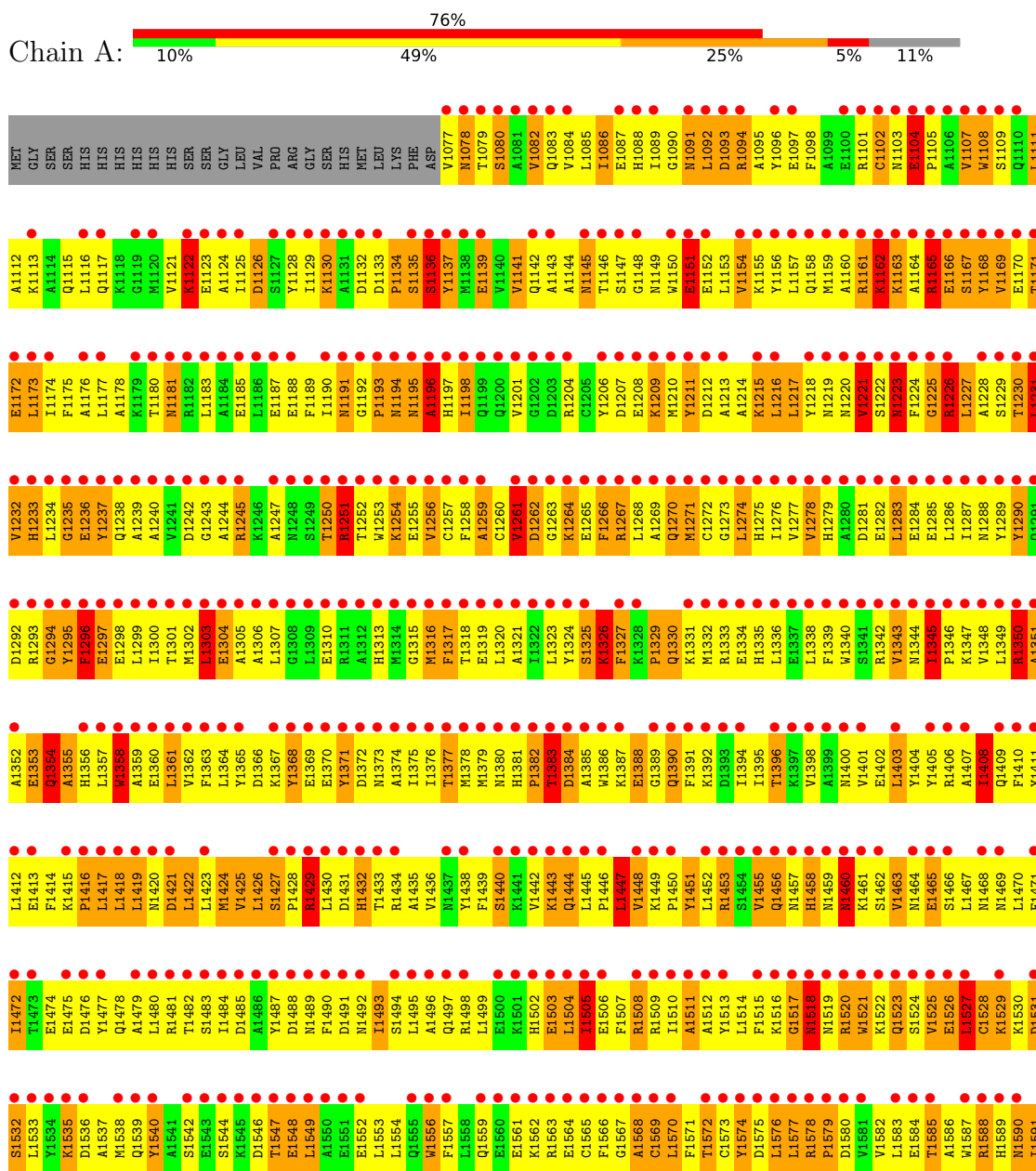
- Molecule 2 is a protein called Clathrin light chain B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	D	113	Total	C	N	O	S	0	0	0
			811	489	160	161	1			
2	E	102	Total	C	N	O	S	0	0	0
			753	455	149	148	1			
2	F	112	Total	C	N	O	S	0	0	0
			806	486	159	160	1			

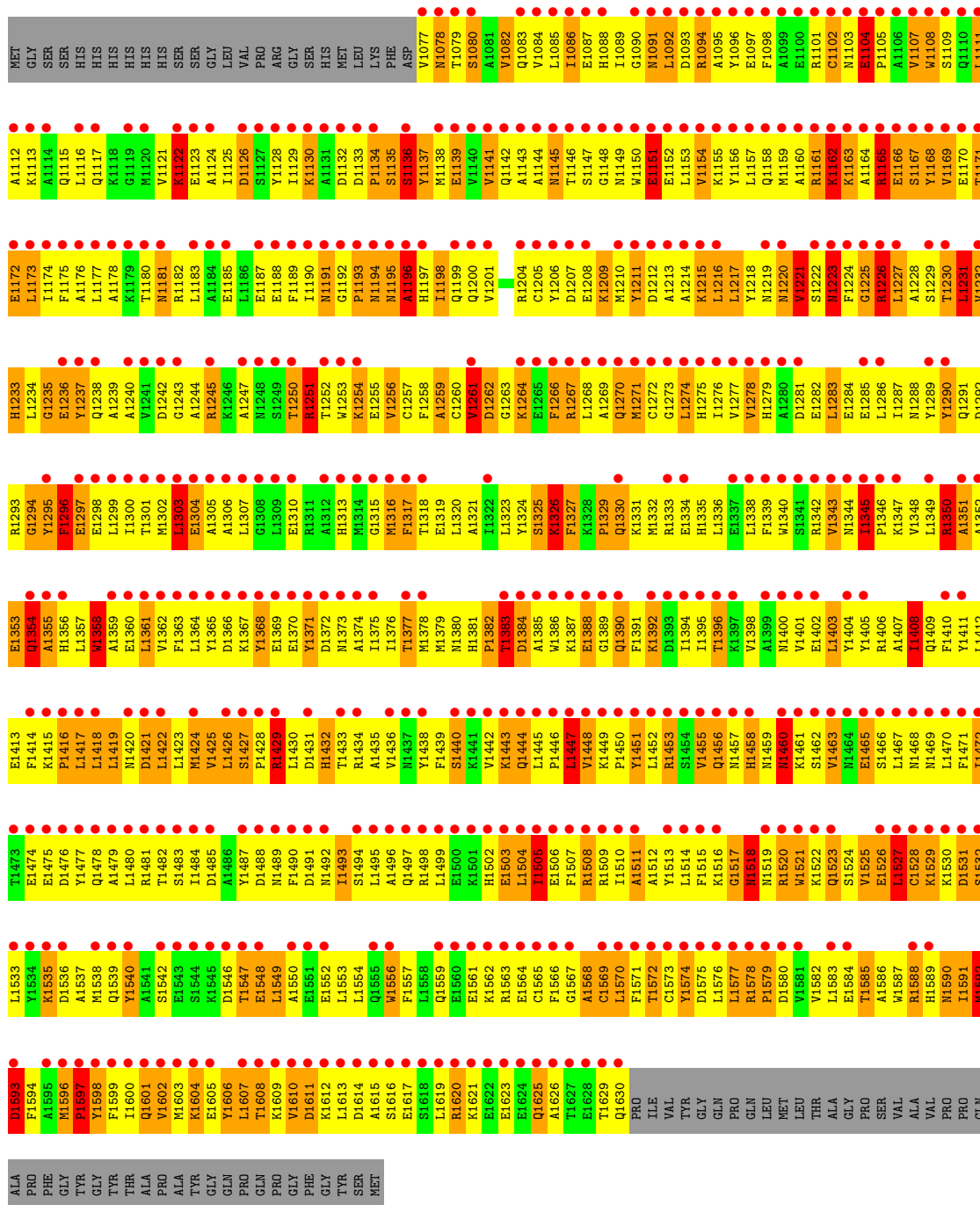
3 Residue-property plots

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.

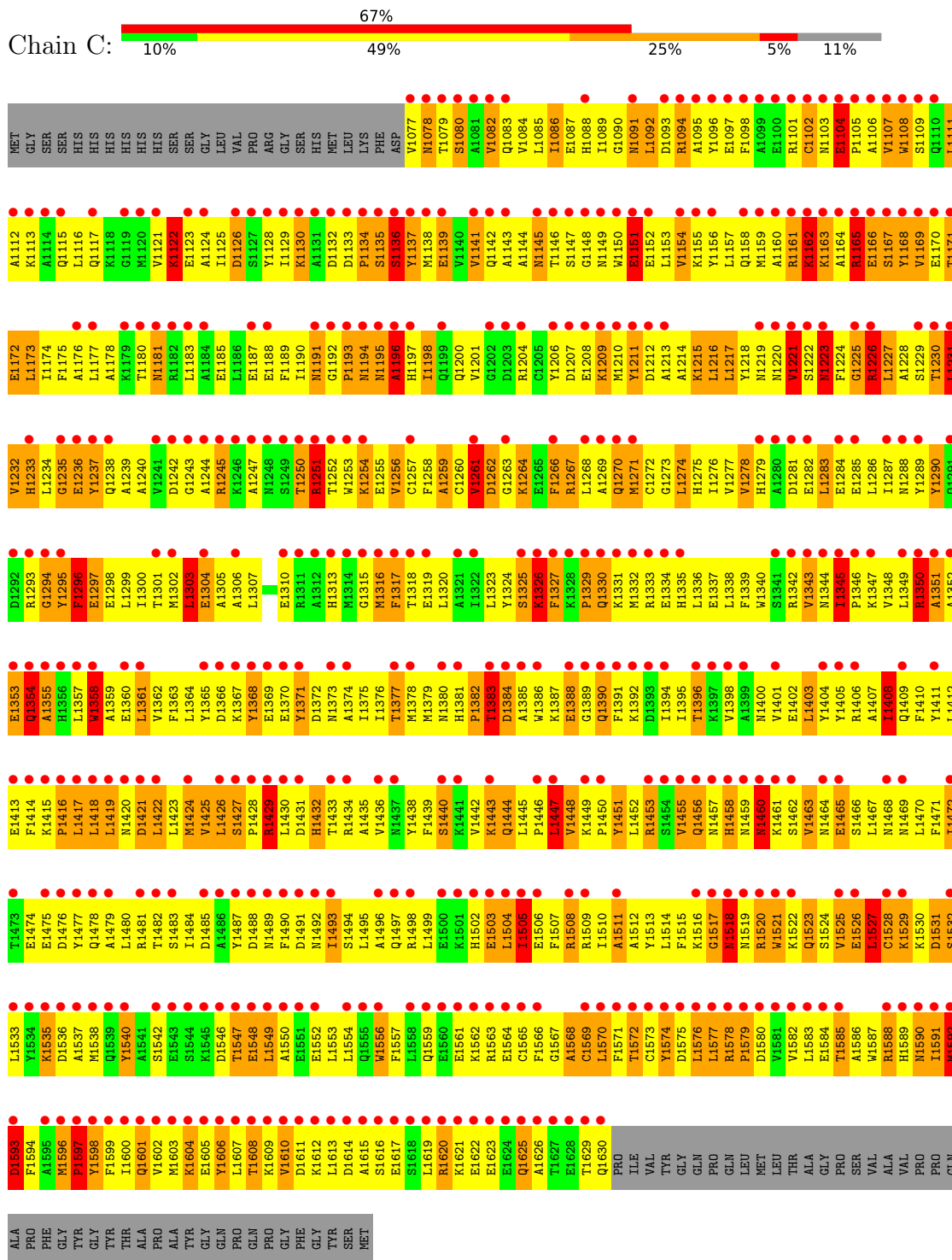
• Molecule 1: Clathrin heavy chain 1



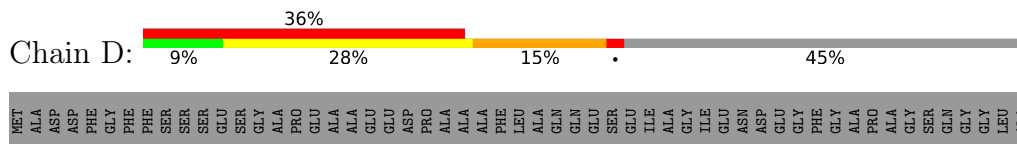
- Molecule 1: Clathrin heavy chain 1

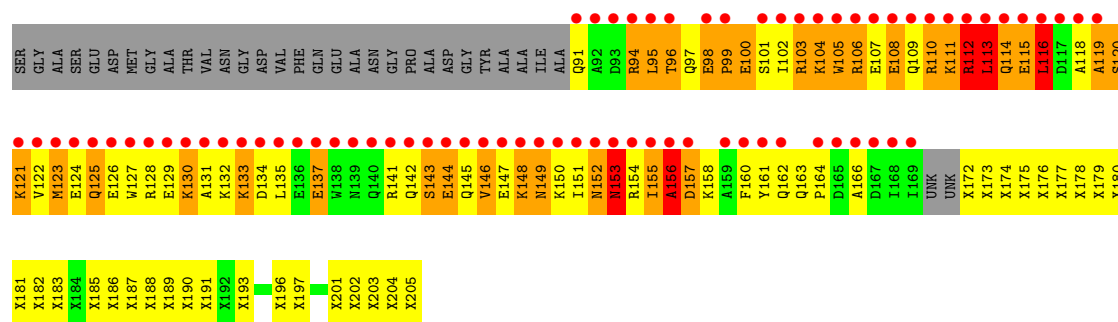


• Molecule 1: Clathrin heavy chain 1

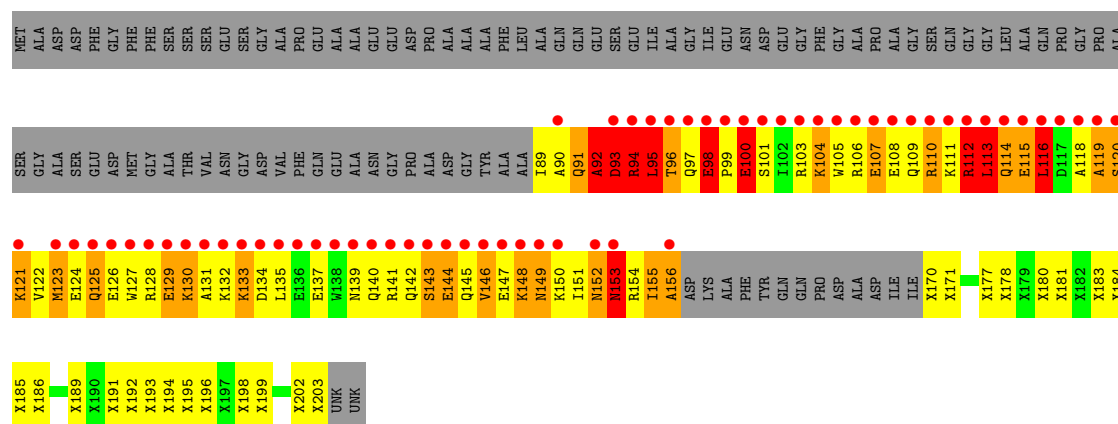
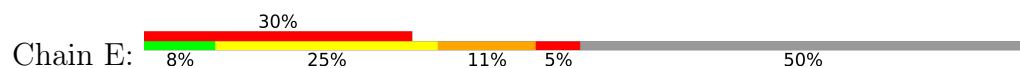


• Molecule 2: Clathrin light chain B

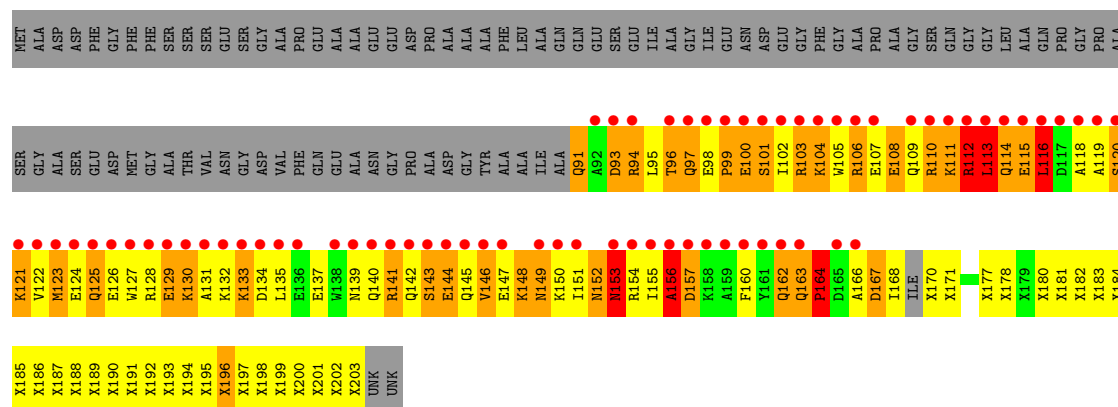
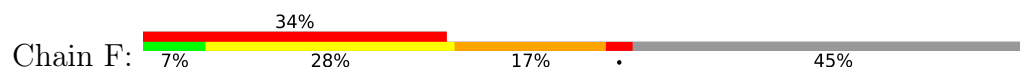




• Molecule 2: Clathrin light chain B



• Molecule 2: Clathrin light chain B



4 Data and refinement statistics

Property	Value	Source
Space group	P 42 21 2	Depositor
Cell constants a, b, c, α , β , γ	229.71 Å 229.71 Å 512.27 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	500.00 – 9.00 256.13 – 9.00	Depositor EDS
% Data completeness (in resolution range)	78.7 (500.00-9.00) 78.8 (256.13-9.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.18	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.66 (at 8.41 Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.473 , 0.487 0.482 , 0.479	Depositor DCC
R_{free} test set	430 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	604.9	Xtriage
Anisotropy	0.404	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.47 , 358.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.38$, $\langle L^2 \rangle = 0.21$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.73	EDS
Total number of atoms	16020	wwPDB-VP
Average B, all atoms (Å ²)	103.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.04% 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	0.72	3/4645 (0.1%)	2.03	175/6276 (2.8%)
1	B	0.50	2/4645 (0.0%)	1.98	176/6276 (2.8%)
1	C	0.50	2/4645 (0.0%)	1.99	174/6276 (2.8%)
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	22/859 (2.6%)
All	All	0.64	13/15813 (0.1%)	1.97	583/21338 (2.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	7
1	B	0	6
1	C	0	6
2	F	0	1
All	All	0	20

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1196	ALA	C-N	-34.74	0.84	1.33
1	C	1136	SER	C-N	-21.53	1.03	1.33
1	B	1136	SER	C-N	-21.49	1.03	1.33
1	A	1136	SER	C-N	-21.45	1.03	1.33
1	B	1592	MET	C-N	-16.82	1.10	1.33
1	C	1592	MET	C-N	-16.82	1.10	1.33
1	A	1592	MET	C-N	-16.77	1.10	1.33
2	D	112	ARG	CA-CB	-6.54	1.45	1.53
2	F	157	ASP	N-CA	6.21	1.54	1.46
2	D	157	ASP	N-CA	6.12	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	160	PHE	CA-CB	5.34	1.61	1.53
2	E	96	THR	N-CA	5.18	1.52	1.46
2	E	95	LEU	CA-C	5.13	1.59	1.52

All (583) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1223	ASN	N-CA-C	37.88	163.05	111.54
1	C	1223	ASN	N-CA-C	37.84	163.00	111.54
1	A	1223	ASN	N-CA-C	37.82	162.97	111.54
1	C	1136	SER	CA-C-N	31.45	178.31	121.70
1	C	1136	SER	C-N-CA	31.45	178.31	121.70
1	B	1136	SER	CA-C-N	31.43	178.27	121.70
1	B	1136	SER	C-N-CA	31.43	178.27	121.70
1	A	1136	SER	CA-C-N	31.36	178.15	121.70
1	A	1136	SER	C-N-CA	31.36	178.15	121.70
1	A	1256	VAL	N-CA-C	24.71	135.93	110.23
1	C	1256	VAL	N-CA-C	24.66	135.88	110.23
1	B	1256	VAL	N-CA-C	24.55	135.76	110.23
1	C	1223	ASN	CB-CA-C	-23.98	76.79	111.80
1	A	1223	ASN	CB-CA-C	-23.96	76.82	111.80
1	B	1223	ASN	CB-CA-C	-23.95	76.84	111.80
1	A	1196	ALA	O-C-N	-22.07	93.23	122.59
1	B	1091	ASN	CB-CA-C	-21.67	75.47	110.14
1	A	1091	ASN	CB-CA-C	-21.65	75.50	110.14
1	C	1091	ASN	CB-CA-C	-21.64	75.52	110.14
1	C	1136	SER	O-C-N	-21.58	93.88	122.59
1	B	1136	SER	O-C-N	-21.57	93.91	122.59
1	A	1136	SER	O-C-N	-21.55	93.92	122.59
1	C	1572	THR	N-CA-C	20.85	133.38	111.07
1	A	1572	THR	N-CA-C	20.84	133.37	111.07
1	B	1572	THR	N-CA-C	20.83	133.36	111.07
1	A	1456	GLN	CB-CA-C	-20.20	83.05	111.73
1	C	1456	GLN	CB-CA-C	-20.15	83.11	111.73
1	B	1456	GLN	CB-CA-C	-20.12	83.15	111.73
1	A	1429	ARG	CB-CA-C	-18.69	73.22	110.42
1	B	1429	ARG	CB-CA-C	-18.64	73.32	110.42
1	C	1429	ARG	CB-CA-C	-18.64	73.32	110.42
1	B	1223	ASN	CA-C-N	18.61	151.79	120.71
1	B	1223	ASN	C-N-CA	18.61	151.79	120.71
1	C	1223	ASN	CA-C-N	18.61	151.79	120.71
1	C	1223	ASN	C-N-CA	18.61	151.79	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1223	ASN	CA-C-N	18.55	151.68	120.71
1	A	1223	ASN	C-N-CA	18.55	151.68	120.71
1	A	1457	ASN	N-CA-C	-17.72	91.45	114.31
1	A	1196	ALA	CA-C-N	17.70	148.43	122.41
1	A	1196	ALA	C-N-CA	17.70	148.43	122.41
1	B	1457	ASN	N-CA-C	-17.69	91.49	114.31
1	C	1457	ASN	N-CA-C	-17.69	91.50	114.31
1	C	1196	ALA	CB-CA-C	17.14	142.78	110.56
1	A	1598	TYR	CB-CA-C	16.67	143.58	110.42
1	B	1598	TYR	CB-CA-C	16.66	143.56	110.42
1	C	1598	TYR	CB-CA-C	16.58	143.42	110.42
1	A	1592	MET	CB-CA-C	-16.42	77.74	110.42
1	C	1592	MET	CB-CA-C	-16.41	77.77	110.42
1	B	1592	MET	CB-CA-C	-16.39	77.81	110.42
1	A	1592	MET	O-C-N	-16.33	100.87	122.59
1	B	1592	MET	O-C-N	-16.32	100.88	122.59
1	A	1196	ALA	CB-CA-C	16.30	142.86	110.42
1	C	1592	MET	O-C-N	-16.26	100.96	122.59
1	B	1196	ALA	CB-CA-C	16.25	142.75	110.42
1	C	1532	SER	N-CA-C	-16.15	80.59	108.20
1	A	1532	SER	N-CA-C	-16.14	80.59	108.20
1	B	1532	SER	N-CA-C	-16.13	80.61	108.20
1	C	1527	LEU	N-CA-C	15.74	134.79	111.34
1	A	1527	LEU	N-CA-C	15.73	134.78	111.34
1	B	1527	LEU	N-CA-C	15.70	134.73	111.34
1	A	1418	LEU	CB-CA-C	-14.99	83.62	111.06
1	B	1418	LEU	CB-CA-C	-14.97	83.66	111.06
1	C	1183	LEU	N-CA-C	14.97	129.28	111.02
1	C	1418	LEU	CB-CA-C	-14.95	83.71	111.06
1	B	1183	LEU	N-CA-C	14.95	129.25	111.02
1	A	1183	LEU	N-CA-C	14.92	129.22	111.02
1	B	1355	ALA	N-CA-C	-14.83	83.46	107.93
1	C	1355	ALA	N-CA-C	-14.82	83.47	107.93
1	A	1355	ALA	N-CA-C	-14.80	83.50	107.93
1	A	1256	VAL	CB-CA-C	-14.42	93.25	111.70
1	C	1256	VAL	CB-CA-C	-14.36	93.32	111.70
1	B	1256	VAL	CB-CA-C	-14.35	93.33	111.70
1	C	1139	GLU	N-CA-C	13.68	125.88	110.97
1	B	1139	GLU	N-CA-C	13.65	125.85	110.97
1	A	1139	GLU	N-CA-C	13.63	125.82	110.97
1	A	1210	MET	N-CA-C	-13.39	85.10	108.13
1	C	1210	MET	N-CA-C	-13.37	85.14	108.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1210	MET	N-CA-C	-13.35	85.17	108.13
1	C	1169	VAL	CB-CA-C	-12.89	98.28	110.91
1	A	1169	VAL	CB-CA-C	-12.89	98.28	110.91
1	B	1169	VAL	CB-CA-C	-12.89	98.28	110.91
1	A	1325	SER	N-CA-C	12.85	138.17	110.80
1	C	1325	SER	N-CA-C	12.84	138.15	110.80
1	B	1325	SER	N-CA-C	12.79	138.05	110.80
1	A	1576	LEU	N-CA-C	-12.76	87.40	108.32
1	B	1576	LEU	N-CA-C	-12.69	87.51	108.32
1	C	1576	LEU	N-CA-C	-12.67	87.53	108.32
1	B	1104	GLU	N-CA-C	12.64	137.74	109.81
1	C	1104	GLU	N-CA-C	12.64	137.74	109.81
1	A	1104	GLU	N-CA-C	12.62	137.71	109.81
1	C	1233	HIS	N-CA-C	-12.57	94.61	113.72
1	A	1233	HIS	N-CA-C	-12.56	94.63	113.72
1	B	1233	HIS	N-CA-C	-12.56	94.63	113.72
1	B	1598	TYR	N-CA-C	-12.51	84.16	110.80
1	A	1463	VAL	N-CA-C	12.50	122.17	110.42
1	C	1463	VAL	N-CA-C	12.48	122.16	110.42
1	A	1598	TYR	N-CA-C	-12.47	84.24	110.80
1	C	1598	TYR	N-CA-C	-12.43	84.31	110.80
1	B	1463	VAL	N-CA-C	12.42	122.10	110.42
1	C	1251	ARG	CB-CA-C	-12.38	85.78	110.42
1	B	1251	ARG	CB-CA-C	-12.38	85.79	110.42
1	A	1251	ARG	CB-CA-C	-12.36	85.83	110.42
1	C	1572	THR	CB-CA-C	-11.97	92.08	110.88
1	B	1572	THR	CB-CA-C	-11.94	92.14	110.88
1	A	1572	THR	CB-CA-C	-11.92	92.16	110.88
1	C	1593	ASP	N-CA-CB	11.52	132.42	114.45
1	B	1424	MET	N-CA-C	11.48	135.25	110.80
1	A	1593	ASP	N-CA-CB	11.47	132.34	114.45
1	A	1424	MET	N-CA-C	11.46	135.22	110.80
1	C	1424	MET	N-CA-C	11.46	135.21	110.80
1	B	1593	ASP	N-CA-CB	11.44	132.30	114.45
2	F	111	LYS	N-CA-C	-11.11	99.72	113.38
1	B	1231	LEU	CB-CA-C	11.09	132.49	110.42
1	A	1231	LEU	CB-CA-C	11.05	132.41	110.42
1	C	1231	LEU	CB-CA-C	11.05	132.41	110.42
1	A	1528	CYS	CB-CA-C	11.03	132.36	110.42
1	B	1528	CYS	CB-CA-C	11.01	132.32	110.42
1	C	1528	CYS	CB-CA-C	10.99	132.29	110.42
1	B	1261	VAL	CB-CA-C	-10.90	97.76	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1261	VAL	CB-CA-C	-10.87	97.80	112.04
1	C	1261	VAL	CB-CA-C	-10.84	97.84	112.04
2	E	111	LYS	N-CA-C	-10.80	99.56	113.17
2	D	111	LYS	N-CA-C	-10.78	99.59	113.17
1	C	1463	VAL	CB-CA-C	-10.75	98.00	111.87
1	B	1463	VAL	CB-CA-C	-10.74	98.02	111.87
1	A	1463	VAL	CB-CA-C	-10.73	98.02	111.87
1	C	1426	LEU	N-CA-C	10.70	124.28	111.33
1	A	1426	LEU	N-CA-C	10.70	124.27	111.33
2	E	92	ALA	N-CA-C	10.69	133.57	110.80
1	B	1426	LEU	N-CA-C	10.68	124.25	111.33
1	B	1235	GLY	N-CA-C	-10.29	98.15	115.34
1	A	1235	GLY	N-CA-C	-10.28	98.18	115.34
1	C	1235	GLY	N-CA-C	-10.26	98.20	115.34
1	A	1531	ASP	CB-CA-C	-10.22	95.23	111.48
1	C	1531	ASP	CB-CA-C	-10.21	95.25	111.48
1	B	1531	ASP	CB-CA-C	-10.20	95.26	111.48
2	D	100	GLU	N-CA-C	-10.12	100.34	112.89
1	A	1576	LEU	CB-CA-C	10.04	126.86	109.89
1	A	1162	LYS	CB-CA-C	10.03	130.38	110.42
1	C	1576	LEU	CB-CA-C	10.03	126.84	109.89
1	B	1576	LEU	CB-CA-C	10.03	126.83	109.89
1	A	1590	ASN	N-CA-C	10.00	132.10	110.80
1	B	1590	ASN	N-CA-C	9.99	132.08	110.80
1	C	1162	LYS	CB-CA-C	9.99	130.30	110.42
1	C	1590	ASN	N-CA-C	9.98	132.06	110.80
2	E	153	ASN	N-CA-C	-9.98	100.40	112.58
1	B	1162	LYS	CB-CA-C	9.97	130.26	110.42
2	F	153	ASN	N-CA-C	-9.91	100.48	112.58
2	D	153	ASN	N-CA-C	-9.87	100.54	112.58
1	B	1355	ALA	CB-CA-C	9.85	124.13	110.34
1	C	1355	ALA	CB-CA-C	9.82	124.09	110.34
1	A	1355	ALA	CB-CA-C	9.79	124.05	110.34
1	A	1527	LEU	CB-CA-C	-9.78	97.35	112.31
1	B	1527	LEU	CB-CA-C	-9.77	97.37	112.31
1	C	1520	ARG	N-CA-C	9.75	124.28	112.38
1	C	1527	LEU	CB-CA-C	-9.75	97.40	112.31
1	A	1520	ARG	N-CA-C	9.73	124.25	112.38
1	A	1167	SER	N-CA-C	9.72	131.50	110.80
1	B	1167	SER	N-CA-C	9.71	131.49	110.80
1	B	1520	ARG	N-CA-C	9.71	124.23	112.38
1	C	1167	SER	N-CA-C	9.71	131.47	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1351	ALA	N-CA-C	-9.64	100.40	114.39
1	B	1351	ALA	N-CA-C	-9.62	100.44	114.39
1	A	1230	THR	N-CA-C	9.62	124.02	108.63
1	C	1326	LYS	N-CA-C	-9.61	88.00	107.41
1	B	1230	THR	N-CA-C	9.60	124.00	108.63
1	A	1351	ALA	N-CA-C	-9.59	100.48	114.39
1	A	1326	LYS	N-CA-C	-9.59	88.05	107.41
1	C	1230	THR	N-CA-C	9.59	123.97	108.63
1	B	1326	LYS	N-CA-C	-9.58	88.05	107.41
1	A	1130	LYS	N-CA-C	-9.54	91.92	108.52
1	C	1130	LYS	N-CA-C	-9.52	91.95	108.52
1	B	1092	LEU	N-CA-C	9.52	122.78	108.31
1	B	1130	LYS	N-CA-C	-9.51	91.97	108.52
1	C	1358	TRP	CB-CA-C	-9.48	91.55	110.42
1	B	1358	TRP	CB-CA-C	-9.47	91.58	110.42
1	A	1358	TRP	CB-CA-C	-9.46	91.60	110.42
1	A	1092	LEU	N-CA-C	9.45	122.67	108.31
2	E	100	GLU	N-CA-C	-9.45	100.52	112.90
1	C	1606	TYR	N-CA-C	-9.43	101.08	111.36
1	C	1092	LEU	N-CA-C	9.43	122.64	108.31
1	A	1606	TYR	N-CA-C	-9.37	101.15	111.36
1	B	1606	TYR	N-CA-C	-9.30	101.22	111.36
1	B	1107	VAL	N-CA-C	9.29	128.67	109.34
1	A	1107	VAL	N-CA-C	9.28	128.64	109.34
1	C	1107	VAL	N-CA-C	9.26	128.60	109.34
1	A	1465	GLU	N-CA-C	9.20	130.39	110.80
2	F	96	THR	N-CA-C	-9.20	102.19	113.50
1	C	1465	GLU	N-CA-C	9.20	130.39	110.80
1	B	1465	GLU	CB-CA-C	-9.19	92.13	110.42
1	C	1465	GLU	CB-CA-C	-9.19	92.14	110.42
1	B	1465	GLU	N-CA-C	9.18	130.35	110.80
1	A	1465	GLU	CB-CA-C	-9.14	92.22	110.42
2	D	96	THR	N-CA-C	-9.12	102.14	113.18
1	B	1590	ASN	CB-CA-C	-9.12	92.27	110.42
1	A	1590	ASN	CB-CA-C	-9.12	92.28	110.42
1	C	1590	ASN	CB-CA-C	-9.10	92.31	110.42
1	B	1261	VAL	N-CA-C	9.10	120.99	110.62
1	B	1104	GLU	CA-C-N	9.05	131.15	119.84
1	B	1104	GLU	C-N-CA	9.05	131.15	119.84
1	A	1261	VAL	N-CA-C	9.04	120.93	110.62
1	C	1104	GLU	CA-C-N	9.03	131.12	119.84
1	C	1104	GLU	C-N-CA	9.03	131.12	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1261	VAL	N-CA-C	9.02	120.90	110.62
1	A	1104	GLU	CA-C-N	8.97	131.05	119.84
1	A	1104	GLU	C-N-CA	8.97	131.05	119.84
1	C	1196	ALA	N-CA-C	-8.88	93.43	107.73
1	A	1455	VAL	CB-CA-C	-8.76	96.92	111.29
1	A	1231	LEU	N-CA-C	-8.72	92.22	110.80
1	C	1231	LEU	N-CA-C	-8.70	92.26	110.80
1	B	1231	LEU	N-CA-C	-8.69	92.30	110.80
1	B	1181	ASN	CB-CA-C	-8.66	91.43	111.09
1	C	1181	ASN	CB-CA-C	-8.64	91.47	111.09
1	C	1455	VAL	CB-CA-C	-8.64	97.12	111.29
1	B	1455	VAL	CB-CA-C	-8.64	97.12	111.29
1	A	1181	ASN	CB-CA-C	-8.63	91.50	111.09
1	B	1151	GLU	CB-CA-C	-8.52	93.47	110.42
1	B	1429	ARG	CA-C-N	8.49	137.86	122.92
1	B	1429	ARG	C-N-CA	8.49	137.86	122.92
1	A	1429	ARG	CA-C-N	8.49	137.86	122.92
1	A	1429	ARG	C-N-CA	8.49	137.86	122.92
1	C	1151	GLU	CB-CA-C	-8.48	93.55	110.42
1	C	1520	ARG	CB-CA-C	-8.47	92.44	110.32
1	A	1151	GLU	CB-CA-C	-8.47	93.57	110.42
1	B	1520	ARG	CB-CA-C	-8.46	92.47	110.32
1	A	1520	ARG	CB-CA-C	-8.46	92.47	110.32
1	C	1429	ARG	CA-C-N	8.46	137.81	122.92
1	C	1429	ARG	C-N-CA	8.46	137.81	122.92
1	A	1383	THR	CB-CA-C	8.40	127.14	110.42
1	C	1383	THR	CB-CA-C	8.39	127.11	110.42
1	B	1383	THR	CB-CA-C	8.37	127.08	110.42
1	A	1598	TYR	CA-C-N	8.37	134.68	120.71
1	A	1598	TYR	C-N-CA	8.37	134.68	120.71
2	F	160	PHE	N-CA-C	-8.36	103.56	112.93
1	B	1598	TYR	CA-C-N	8.34	134.64	120.71
1	B	1598	TYR	C-N-CA	8.34	134.64	120.71
1	B	1535	LYS	N-CA-C	8.33	128.54	110.80
1	A	1535	LYS	N-CA-C	8.30	128.49	110.80
1	A	1250	THR	CB-CA-C	-8.30	98.17	109.71
1	C	1598	TYR	CA-C-N	8.29	134.56	120.71
1	C	1598	TYR	C-N-CA	8.29	134.56	120.71
1	C	1535	LYS	N-CA-C	8.29	128.45	110.80
1	C	1271	MET	N-CA-C	-8.27	101.31	111.40
1	A	1426	LEU	CB-CA-C	-8.27	96.63	110.68
1	B	1271	MET	N-CA-C	-8.24	101.34	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1250	THR	CB-CA-C	-8.24	98.26	109.71
1	B	1250	THR	CB-CA-C	-8.23	98.27	109.71
1	A	1271	MET	N-CA-C	-8.23	101.36	111.40
1	B	1426	LEU	CB-CA-C	-8.18	96.77	110.68
1	C	1426	LEU	CB-CA-C	-8.18	96.78	110.68
1	B	1196	ALA	N-CA-C	-8.16	93.42	110.80
1	A	1270	GLN	N-CA-C	-8.15	103.93	114.04
1	B	1440	SER	N-CA-C	8.15	120.89	111.11
1	A	1196	ALA	N-CA-C	-8.15	93.45	110.80
1	C	1195	ASN	CB-CA-C	-8.13	97.64	109.84
1	C	1440	SER	N-CA-C	8.12	120.86	111.11
1	C	1270	GLN	N-CA-C	-8.12	103.97	114.04
1	A	1195	ASN	CB-CA-C	-8.11	97.67	109.84
1	B	1195	ASN	CB-CA-C	-8.08	97.72	109.84
1	B	1270	GLN	N-CA-C	-8.08	104.02	114.04
1	A	1440	SER	N-CA-C	8.05	120.77	111.11
1	A	1529	LYS	N-CA-CB	-8.02	96.94	110.49
1	C	1529	LYS	N-CA-CB	-8.00	96.97	110.49
1	B	1529	LYS	N-CA-CB	-8.00	96.98	110.49
1	A	1210	MET	CB-CA-C	7.97	121.88	110.24
1	A	1358	TRP	N-CA-C	7.95	127.74	110.80
1	C	1358	TRP	N-CA-C	7.94	127.71	110.80
1	B	1358	TRP	N-CA-C	7.94	127.70	110.80
1	B	1210	MET	CB-CA-C	7.92	121.81	110.24
1	C	1139	GLU	CB-CA-C	-7.91	98.77	110.96
1	C	1210	MET	CB-CA-C	7.91	121.79	110.24
1	A	1232	VAL	N-CA-CB	7.91	124.28	111.23
1	B	1232	VAL	N-CA-CB	7.88	124.23	111.23
1	B	1139	GLU	CB-CA-C	-7.87	98.84	110.96
1	A	1139	GLU	CB-CA-C	-7.87	98.85	110.96
1	C	1232	VAL	N-CA-CB	7.85	124.18	111.23
1	A	1421	ASP	N-CA-C	-7.84	102.81	112.38
1	C	1421	ASP	N-CA-C	-7.84	102.82	112.38
1	B	1421	ASP	N-CA-C	-7.78	102.88	112.38
1	A	1325	SER	CB-CA-C	-7.77	94.96	110.42
1	C	1325	SER	CB-CA-C	-7.76	94.97	110.42
1	A	1183	LEU	CB-CA-C	-7.75	98.60	110.92
2	E	112	ARG	N-CA-C	-7.74	94.31	110.80
1	B	1183	LEU	CB-CA-C	-7.73	98.63	110.92
1	B	1325	SER	CB-CA-C	-7.73	95.04	110.42
2	F	112	ARG	N-CA-C	-7.73	94.34	110.80
1	A	1511	ALA	N-CA-C	-7.70	102.85	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1511	ALA	N-CA-C	-7.69	102.86	111.71
1	C	1183	LEU	CB-CA-C	-7.68	98.71	110.92
1	B	1511	ALA	N-CA-C	-7.67	102.89	111.71
1	B	1136	SER	CB-CA-C	7.61	125.57	110.42
1	A	1136	SER	CB-CA-C	7.61	125.57	110.42
1	C	1136	SER	CB-CA-C	7.57	125.49	110.42
2	D	113	LEU	N-CA-CB	-7.47	97.86	110.49
1	C	1266	PHE	N-CA-C	-7.40	104.23	113.18
1	A	1371	TYR	CB-CA-C	-7.40	95.70	110.42
1	A	1266	PHE	N-CA-C	-7.40	104.23	113.18
1	B	1266	PHE	N-CA-C	-7.39	104.24	113.18
1	B	1371	TYR	CB-CA-C	-7.37	95.76	110.42
1	B	1209	LYS	N-CA-C	7.37	120.52	109.25
1	A	1209	LYS	N-CA-C	7.34	120.49	109.25
2	F	139	ASN	N-CA-C	7.33	123.39	111.37
1	C	1371	TYR	CB-CA-C	-7.32	95.86	110.42
1	C	1209	LYS	N-CA-C	7.27	120.37	109.25
2	F	164	PRO	N-CA-CB	7.15	110.76	103.25
1	B	1171	THR	N-CA-C	-7.12	103.70	112.38
1	B	1371	TYR	N-CA-C	7.09	125.90	110.80
1	A	1371	TYR	N-CA-C	7.08	125.89	110.80
1	A	1424	MET	CB-CA-C	-7.08	96.33	110.42
1	B	1424	MET	CB-CA-C	-7.07	96.35	110.42
1	C	1424	MET	CB-CA-C	-7.07	96.36	110.42
2	F	104	LYS	N-CA-C	-7.05	103.53	111.14
1	C	1171	THR	N-CA-C	-7.04	103.80	112.38
1	C	1371	TYR	N-CA-C	7.03	125.78	110.80
2	D	157	ASP	N-CA-C	7.00	125.71	110.80
1	B	1447	LEU	N-CA-C	-6.99	103.67	111.28
2	F	157	ASP	N-CA-C	6.99	125.68	110.80
1	A	1447	LEU	N-CA-C	-6.98	103.67	111.28
2	E	96	THR	N-CA-C	-6.97	106.67	114.62
1	A	1171	THR	N-CA-C	-6.96	103.89	112.38
2	D	104	LYS	N-CA-C	-6.92	103.66	111.07
1	C	1508	ARG	N-CA-C	-6.89	104.84	113.18
1	A	1508	ARG	N-CA-C	-6.87	104.87	113.18
1	C	1447	LEU	N-CA-C	-6.87	103.80	111.28
1	B	1508	ARG	N-CA-C	-6.86	104.88	113.18
2	F	156	ALA	CA-C-N	6.85	134.63	121.54
2	F	156	ALA	C-N-CA	6.85	134.63	121.54
1	B	1151	GLU	N-CA-C	6.84	125.37	110.80
1	A	1151	GLU	N-CA-C	6.83	125.35	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1593	ASP	CB-CA-C	-6.82	99.75	110.04
2	D	110	ARG	N-CA-C	-6.82	105.00	113.38
1	C	1151	GLU	N-CA-C	6.82	125.32	110.80
2	D	156	ALA	CA-C-N	6.82	134.56	121.54
2	D	156	ALA	C-N-CA	6.82	134.56	121.54
1	B	1593	ASP	CB-CA-C	-6.81	99.75	110.04
1	C	1593	ASP	CB-CA-C	-6.80	99.78	110.04
1	A	1610	VAL	N-CA-C	-6.78	102.13	111.89
1	C	1610	VAL	N-CA-C	-6.78	102.13	111.89
1	B	1623	GLU	CB-CA-C	-6.77	99.50	110.74
1	B	1610	VAL	N-CA-C	-6.76	102.15	111.89
1	C	1195	ASN	N-CA-C	6.76	120.18	110.24
2	F	110	ARG	N-CA-C	-6.76	105.07	113.38
1	A	1623	GLU	CB-CA-C	-6.75	99.53	110.74
1	B	1195	ASN	N-CA-C	6.75	120.17	110.24
1	A	1195	ASN	N-CA-C	6.75	120.16	110.24
1	B	1460	ASN	CB-CA-C	-6.75	97.70	109.64
2	F	156	ALA	N-CA-C	-6.74	96.44	110.80
1	C	1460	ASN	CB-CA-C	-6.74	97.71	109.64
1	C	1623	GLU	CB-CA-C	-6.74	99.56	110.74
2	D	156	ALA	N-CA-C	-6.72	96.49	110.80
2	D	143	SER	N-CA-C	6.71	125.10	110.80
1	A	1460	ASN	CB-CA-C	-6.71	97.76	109.64
2	F	143	SER	N-CA-C	6.71	125.10	110.80
1	C	1503	GLU	N-CA-C	-6.70	105.11	113.55
1	B	1211	TYR	N-CA-C	6.68	120.69	112.54
2	E	139	ASN	N-CA-C	6.67	122.31	111.37
1	C	1215	LYS	N-CA-C	-6.67	96.59	110.80
1	A	1215	LYS	N-CA-C	-6.65	96.63	110.80
1	B	1503	GLU	N-CA-C	-6.65	105.17	113.55
1	A	1211	TYR	N-CA-C	6.65	120.65	112.54
1	C	1211	TYR	N-CA-C	6.64	120.65	112.54
1	B	1440	SER	CB-CA-C	-6.64	100.19	110.81
1	C	1237	TYR	N-CA-C	-6.63	105.59	113.21
1	A	1440	SER	CB-CA-C	-6.62	100.22	110.81
1	A	1503	GLU	N-CA-C	-6.61	105.22	113.55
1	B	1472	ILE	N-CA-C	6.61	116.75	110.74
1	B	1215	LYS	N-CA-C	-6.60	96.74	110.80
2	F	100	GLU	N-CA-C	-6.60	103.97	113.21
1	B	1237	TYR	N-CA-C	-6.59	105.64	113.21
1	B	1167	SER	CB-CA-C	-6.58	97.32	110.42
1	A	1472	ILE	N-CA-C	6.58	116.73	110.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1440	SER	CB-CA-C	-6.58	100.29	110.81
1	A	1588	ARG	N-CA-C	-6.58	104.36	112.38
1	B	1588	ARG	N-CA-C	-6.58	104.36	112.38
1	C	1588	ARG	N-CA-C	-6.57	104.36	112.38
1	A	1573	CYS	CB-CA-C	-6.57	97.35	110.42
1	C	1167	SER	CB-CA-C	-6.57	97.36	110.42
1	A	1237	TYR	N-CA-C	-6.55	105.67	113.21
1	A	1167	SER	CB-CA-C	-6.55	97.39	110.42
1	A	1542	SER	N-CA-C	6.54	122.16	111.37
1	C	1472	ILE	N-CA-C	6.54	116.69	110.74
1	C	1542	SER	N-CA-C	6.54	122.16	111.37
1	C	1573	CYS	CB-CA-C	-6.53	97.43	110.42
1	B	1573	CYS	CB-CA-C	-6.51	97.47	110.42
1	A	1488	ASP	N-CA-C	6.50	119.91	112.57
1	B	1542	SER	N-CA-C	6.50	122.09	111.37
2	F	97	GLN	N-CA-C	6.48	118.01	111.07
1	A	1444	GLN	CA-C-N	6.48	127.77	120.06
1	A	1444	GLN	C-N-CA	6.48	127.77	120.06
1	B	1488	ASP	N-CA-C	6.47	119.88	112.57
1	B	1353	GLU	N-CA-C	-6.47	105.25	113.01
1	A	1354	GLN	N-CA-C	-6.46	105.27	113.02
1	B	1225	GLY	N-CA-C	-6.45	104.79	113.24
1	B	1326	LYS	CA-C-N	6.45	133.85	121.54
1	B	1326	LYS	C-N-CA	6.45	133.85	121.54
1	C	1444	GLN	CA-C-N	6.44	127.73	120.06
1	C	1444	GLN	C-N-CA	6.44	127.73	120.06
1	B	1354	GLN	N-CA-C	-6.44	105.29	113.02
1	A	1215	LYS	CB-CA-C	6.43	123.22	110.42
1	C	1488	ASP	N-CA-C	6.43	119.84	112.57
1	C	1326	LYS	CA-C-N	6.42	133.80	121.54
1	C	1326	LYS	C-N-CA	6.42	133.80	121.54
1	C	1425	VAL	CB-CA-C	-6.42	100.77	111.29
1	C	1472	ILE	CB-CA-C	-6.42	103.47	111.94
1	B	1444	GLN	CA-C-N	6.41	127.69	120.06
1	B	1444	GLN	C-N-CA	6.41	127.69	120.06
1	A	1425	VAL	CB-CA-C	-6.40	100.79	111.29
1	C	1215	LYS	CB-CA-C	6.40	123.15	110.42
1	A	1472	ILE	CB-CA-C	-6.40	103.49	111.94
1	B	1425	VAL	CB-CA-C	-6.40	100.80	111.29
1	B	1215	LYS	CB-CA-C	6.39	123.14	110.42
1	C	1353	GLU	N-CA-C	-6.39	105.34	113.01
1	C	1354	GLN	N-CA-C	-6.39	105.36	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1137	TYR	N-CA-C	6.38	128.87	111.00
1	C	1225	GLY	N-CA-C	-6.38	104.88	113.24
1	A	1353	GLU	N-CA-C	-6.38	105.36	113.01
1	B	1472	ILE	CB-CA-C	-6.38	103.52	111.94
2	E	93	ASP	N-CA-C	6.38	124.38	110.80
1	A	1225	GLY	N-CA-C	-6.37	104.90	113.24
2	D	164	PRO	N-CA-CB	6.37	110.34	103.33
1	A	1326	LYS	CA-C-N	6.36	133.68	121.54
1	A	1326	LYS	C-N-CA	6.36	133.68	121.54
1	B	1137	TYR	N-CA-C	6.33	128.72	111.00
1	C	1604	LYS	N-CA-C	6.33	118.06	111.03
1	A	1604	LYS	N-CA-C	6.32	118.04	111.03
1	A	1573	CYS	N-CA-C	6.30	124.22	110.80
1	B	1604	LYS	N-CA-C	6.29	118.02	111.03
1	C	1137	TYR	N-CA-C	6.29	128.62	111.00
1	C	1573	CYS	N-CA-C	6.29	124.20	110.80
1	A	1232	VAL	N-CA-C	-6.28	96.27	109.34
1	C	1196	ALA	CA-C-N	6.28	132.35	122.17
1	C	1196	ALA	C-N-CA	6.28	132.35	122.17
1	A	1569	CYS	N-CA-CB	-6.28	99.78	110.33
1	B	1573	CYS	N-CA-C	6.28	124.18	110.80
1	B	1232	VAL	N-CA-C	-6.27	96.29	109.34
1	B	1569	CYS	N-CA-CB	-6.27	99.80	110.33
1	C	1232	VAL	N-CA-C	-6.27	96.31	109.34
2	E	94	ARG	N-CA-C	6.27	124.15	110.80
1	A	1623	GLU	N-CA-C	6.26	121.70	111.37
1	B	1196	ALA	CA-C-N	6.26	132.31	122.17
1	B	1196	ALA	C-N-CA	6.26	132.31	122.17
2	E	110	ARG	N-CA-C	-6.21	105.49	114.12
1	B	1559	GLN	N-CA-C	6.21	120.46	113.01
2	E	143	SER	N-CA-C	6.21	124.02	110.80
1	C	1559	GLN	N-CA-C	6.20	120.45	113.01
1	A	1559	GLN	N-CA-C	6.18	120.43	113.01
1	B	1623	GLU	N-CA-C	6.17	121.56	111.37
1	B	1607	LEU	N-CA-C	-6.17	106.43	112.97
1	C	1623	GLU	N-CA-C	6.17	121.55	111.37
1	A	1607	LEU	N-CA-C	-6.17	106.43	112.97
1	C	1607	LEU	N-CA-C	-6.17	106.43	112.97
1	C	1122	LYS	CB-CA-C	-6.14	98.19	110.42
1	A	1229	SER	CB-CA-C	6.13	122.63	110.42
1	A	1521	TRP	N-CA-C	6.13	117.96	111.28
1	B	1122	LYS	CB-CA-C	-6.11	98.26	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1521	TRP	N-CA-C	6.11	117.94	111.28
1	A	1518	ASN	CB-CA-C	-6.11	98.27	110.42
1	B	1518	ASN	CB-CA-C	-6.10	98.28	110.42
1	C	1453	ARG	N-CA-C	6.10	123.79	110.80
2	E	104	LYS	N-CA-C	6.09	121.37	111.37
1	A	1453	ARG	N-CA-C	6.09	123.77	110.80
1	C	1521	TRP	N-CA-C	6.09	117.92	111.28
1	C	1518	ASN	CB-CA-C	-6.08	98.31	110.42
1	B	1229	SER	CB-CA-C	6.08	122.52	110.42
1	B	1453	ARG	N-CA-C	6.08	123.75	110.80
1	A	1122	LYS	CB-CA-C	-6.07	98.34	110.42
1	C	1229	SER	CB-CA-C	6.07	122.50	110.42
1	A	1570	LEU	N-CA-C	-6.05	105.00	112.38
1	C	1122	LYS	N-CA-C	6.04	123.67	110.80
1	B	1326	LYS	CB-CA-C	-6.03	101.16	111.41
1	A	1220	ASN	N-CA-C	-6.02	103.57	113.50
1	C	1220	ASN	N-CA-C	-6.01	103.58	113.50
1	A	1326	LYS	CB-CA-C	-6.00	101.20	111.41
1	B	1122	LYS	N-CA-C	6.00	123.59	110.80
1	C	1226	ARG	N-CA-C	-5.99	106.33	113.21
1	A	1122	LYS	N-CA-C	5.98	123.54	110.80
1	A	1226	ARG	N-CA-C	-5.98	106.33	113.21
1	B	1220	ASN	N-CA-C	-5.98	103.64	113.50
1	B	1570	LEU	N-CA-C	-5.97	105.09	112.38
1	C	1326	LYS	CB-CA-C	-5.96	101.28	111.41
1	C	1570	LEU	N-CA-C	-5.96	105.11	112.38
1	B	1226	ARG	N-CA-C	-5.96	106.36	113.21
1	A	1107	VAL	CB-CA-C	-5.88	101.64	111.29
1	B	1310	GLU	CB-CA-C	5.88	122.16	110.17
1	B	1107	VAL	CB-CA-C	-5.87	101.66	111.29
1	C	1569	CYS	N-CA-CB	-5.87	99.76	110.27
1	C	1107	VAL	CB-CA-C	-5.87	101.67	111.29
1	A	1310	GLU	CB-CA-C	5.85	122.10	110.17
2	F	152	ASN	N-CA-C	-5.84	102.67	110.55
1	C	1310	GLU	CB-CA-C	5.84	122.08	110.17
2	D	152	ASN	N-CA-C	-5.82	102.69	110.55
2	E	113	LEU	CA-CB-CG	5.81	136.63	116.30
2	F	113	LEU	CA-CB-CG	5.78	136.53	116.30
2	E	152	ASN	N-CA-C	-5.75	102.79	110.55
1	C	1094	ARG	CB-CA-C	5.74	121.85	110.42
1	B	1094	ARG	CB-CA-C	5.71	121.79	110.42
1	A	1542	SER	CB-CA-C	-5.71	101.26	110.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1094	ARG	CB-CA-C	5.70	121.76	110.42
2	D	113	LEU	CA-CB-CG	5.70	136.24	116.30
1	C	1556	TRP	CB-CA-C	-5.69	101.18	110.85
1	B	1556	TRP	CB-CA-C	-5.68	101.19	110.85
1	B	1542	SER	CB-CA-C	-5.68	101.31	110.74
1	C	1092	LEU	CB-CA-C	-5.67	110.02	116.54
1	B	1092	LEU	CB-CA-C	-5.66	110.03	116.54
1	C	1542	SER	CB-CA-C	-5.66	101.34	110.74
1	A	1556	TRP	CB-CA-C	-5.65	101.25	110.85
1	A	1092	LEU	CB-CA-C	-5.60	110.10	116.54
1	B	1082	VAL	N-CA-C	5.56	120.90	109.34
1	C	1082	VAL	N-CA-C	5.56	120.90	109.34
1	A	1408	ILE	CB-CA-C	5.55	120.39	111.29
1	B	1408	ILE	CB-CA-C	5.55	120.39	111.29
1	A	1082	VAL	N-CA-C	5.54	120.87	109.34
1	C	1408	ILE	CB-CA-C	5.54	120.38	111.29
1	A	1173	LEU	N-CA-C	-5.47	105.21	111.07
1	A	1247	ALA	N-CA-C	5.43	122.38	110.80
1	B	1173	LEU	N-CA-C	-5.42	105.27	111.07
1	A	1532	SER	CB-CA-C	5.41	119.44	110.78
1	B	1267	ARG	N-CA-C	-5.41	104.68	111.92
1	B	1247	ALA	N-CA-C	5.40	122.30	110.80
1	C	1608	THR	N-CA-C	-5.40	106.43	114.64
1	C	1173	LEU	N-CA-C	-5.40	105.30	111.07
1	C	1247	ALA	N-CA-C	5.40	122.30	110.80
1	C	1532	SER	CB-CA-C	5.40	119.42	110.78
1	A	1608	THR	N-CA-C	-5.39	106.45	114.64
1	B	1532	SER	CB-CA-C	5.37	119.37	110.78
1	C	1368	TYR	N-CA-C	-5.36	105.84	112.38
1	A	1267	ARG	N-CA-C	-5.35	104.75	111.92
2	E	119	ALA	N-CA-C	5.35	122.20	110.80
1	B	1608	THR	N-CA-C	-5.35	106.50	114.64
1	A	1455	VAL	N-CA-C	-5.35	98.21	109.34
1	A	1368	TYR	N-CA-C	-5.34	105.86	112.38
1	B	1368	TYR	N-CA-C	-5.34	105.87	112.38
2	D	119	ALA	N-CA-C	5.33	122.15	110.80
2	E	96	THR	CB-CA-C	-5.33	102.20	109.28
1	C	1455	VAL	N-CA-C	-5.32	98.27	109.34
1	B	1455	VAL	N-CA-C	-5.32	98.28	109.34
1	C	1267	ARG	N-CA-C	-5.30	104.81	111.92
1	B	1444	GLN	CB-CA-C	5.29	118.86	109.75
1	C	1444	GLN	CB-CA-C	5.29	118.86	109.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1303	LEU	N-CA-C	-5.27	105.49	112.34
1	A	1444	GLN	CB-CA-C	5.27	118.81	109.75
1	C	1425	VAL	N-CA-C	5.25	120.27	109.34
1	C	1303	LEU	N-CA-C	-5.25	105.52	112.34
1	B	1425	VAL	N-CA-C	5.24	120.25	109.34
1	B	1303	LEU	N-CA-C	-5.24	105.53	112.34
2	F	148	LYS	N-CA-C	-5.24	105.75	111.82
2	F	96	THR	CA-C-N	5.24	127.25	120.44
2	F	96	THR	C-N-CA	5.24	127.25	120.44
1	A	1425	VAL	N-CA-C	5.23	120.22	109.34
1	A	1451	TYR	N-CA-C	-5.21	106.03	112.38
1	A	1288	ASN	N-CA-C	-5.15	99.83	110.80
2	E	148	LYS	N-CA-C	-5.15	105.85	111.82
1	B	1451	TYR	N-CA-C	-5.14	106.11	112.38
1	C	1453	ARG	CB-CA-C	-5.14	100.19	110.42
1	C	1288	ASN	N-CA-C	-5.14	99.85	110.80
1	B	1350	ARG	N-CA-C	-5.14	106.86	112.72
1	B	1453	ARG	CB-CA-C	-5.14	100.20	110.42
1	A	1453	ARG	CB-CA-C	-5.11	100.25	110.42
1	B	1288	ASN	N-CA-C	-5.11	99.92	110.80
1	A	1219	ASN	N-CA-C	-5.10	107.22	112.93
1	C	1219	ASN	N-CA-C	-5.09	107.23	112.93
1	B	1460	ASN	N-CA-C	5.08	116.84	110.24
2	D	148	LYS	N-CA-C	-5.07	105.94	111.82
1	A	1460	ASN	N-CA-C	5.06	116.82	110.24
1	C	1460	ASN	N-CA-C	5.06	116.82	110.24
2	E	129	GLU	N-CA-C	-5.05	106.22	112.38
1	A	1350	ARG	N-CA-C	-5.04	106.97	112.72
1	C	1135	SER	CB-CA-C	-5.04	101.88	112.82
1	B	1219	ASN	N-CA-C	-5.04	107.29	112.93
1	C	1523	GLN	N-CA-C	5.04	121.53	110.80
1	A	1135	SER	CB-CA-C	-5.03	101.90	112.82
2	F	129	GLU	N-CA-C	-5.03	106.24	112.38
1	A	1523	GLN	N-CA-C	5.03	121.52	110.80
1	B	1135	SER	CB-CA-C	-5.03	101.90	112.82
1	C	1350	ARG	N-CA-C	-5.03	106.99	112.72
1	B	1512	ALA	N-CA-C	-5.03	105.69	111.07
2	E	156	ALA	N-CA-C	-5.02	96.94	111.00
1	B	1523	GLN	N-CA-C	5.02	121.49	110.80
1	C	1451	TYR	N-CA-C	-5.01	106.26	112.38
1	C	1512	ALA	N-CA-C	-5.01	105.71	111.07
1	A	1512	ALA	N-CA-C	-5.01	105.71	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1392	LYS	N-CA-C	5.00	117.62	111.82
1	B	1602	VAL	N-CA-C	-5.00	105.52	110.62

There are no chirality outliers.

All (20) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1136	SER	Mainchain
1	A	1196	ALA	Peptide,Mainchain
1	A	1223	ASN	Peptide
1	A	1326	LYS	Peptide
1	A	1429	ARG	Peptide
1	A	1592	MET	Mainchain
1	B	1136	SER	Mainchain
1	B	1196	ALA	Peptide
1	B	1223	ASN	Peptide
1	B	1326	LYS	Peptide
1	B	1429	ARG	Peptide
1	B	1592	MET	Mainchain
1	C	1136	SER	Mainchain
1	C	1196	ALA	Peptide
1	C	1223	ASN	Peptide
1	C	1326	LYS	Peptide
1	C	1429	ARG	Peptide
1	C	1592	MET	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	4550	0	4458	1637	23
1	B	4550	0	4457	1575	40
1	C	4550	0	4462	1483	30
2	D	811	0	641	292	0
2	E	753	0	615	225	0
2	F	806	0	640	351	35

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	16020	0	15273	5158	70

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 165.

All (5158) 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:1253:TRP:CZ3	1:A:1276:ILE:HG22	1.19	1.67
1:B:1253:TRP:CZ3	1:B:1276:ILE:HG22	1.19	1.67
1:C:1253:TRP:CZ3	1:C:1276:ILE:HG22	1.19	1.67
2:E:203:UNK:C	2:E:203:UNK:CA	1.76	1.62
1:B:1108:TRP:CH2	1:B:1129:ILE:HB	1.34	1.61
1:B:1358:TRP:CH2	1:B:1381:HIS:CE1	1.89	1.60
1:A:1108:TRP:CH2	1:A:1129:ILE:HB	1.34	1.59
1:C:1108:TRP:CH2	1:C:1129:ILE:HB	1.34	1.58
1:A:1382:PRO:CG	2:F:123:MET:HE3	1.25	1.58
1:B:1292:ASP:HB3	2:D:97:GLN:CB	1.25	1.57
1:C:1264:LYS:CE	1:C:1268:LEU:HD12	1.12	1.57
1:B:1264:LYS:CE	1:B:1268:LEU:HD12	1.12	1.57
1:C:1358:TRP:CH2	1:C:1381:HIS:CE1	1.89	1.56
1:A:1358:TRP:CH2	1:A:1381:HIS:CE1	1.89	1.56
1:A:1416:PRO:HD3	2:F:130:LYS:CG	1.13	1.55
1:A:1264:LYS:CE	1:A:1268:LEU:HD12	1.12	1.54
1:B:1292:ASP:CA	2:D:97:GLN:HA	1.35	1.54
1:B:1504:LEU:CD2	2:D:152:ASN:HB2	1.30	1.53
1:A:1416:PRO:CD	2:F:130:LYS:CG	1.83	1.52
1:C:1409:GLN:CG	1:C:1413:GLU:HG3	1.37	1.52
1:B:1566:PHE:HD2	2:D:182:UNK:CB	1.23	1.51
1:B:1566:PHE:CD2	2:D:182:UNK:CB	1.90	1.51
1:C:1598:TYR:CD2	2:E:199:UNK:N	1.77	1.51
1:A:1409:GLN:CG	1:A:1413:GLU:HG3	1.37	1.50
1:B:1409:GLN:CG	1:B:1413:GLU:HG3	1.37	1.50
1:C:1108:TRP:CH2	1:C:1129:ILE:CB	1.95	1.49
1:A:1505:ILE:CD1	2:F:153:ASN:ND2	1.74	1.48
1:B:1148:GLY:HA2	1:B:1150:TRP:CZ3	1.49	1.48
1:A:1148:GLY:HA2	1:A:1150:TRP:CZ3	1.49	1.47
1:C:1253:TRP:CE3	1:C:1276:ILE:CG2	1.97	1.46
1:C:1148:GLY:HA2	1:C:1150:TRP:CZ3	1.49	1.46
1:A:1253:TRP:CE3	1:A:1276:ILE:CG2	1.97	1.45
1:A:1108:TRP:CH2	1:A:1129:ILE:CB	1.95	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1601:GLN:HG2	1:B:1587:TRP:CH2	1.52	1.45
1:B:1108:TRP:CH2	1:B:1129:ILE:CB	1.95	1.44
1:A:1356:HIS:CB	2:F:112:ARG:NH2	1.80	1.44
1:B:1253:TRP:CE3	1:B:1276:ILE:CG2	1.97	1.44
1:A:1475:GLU:OE2	2:F:146:VAL:CA	1.66	1.43
1:A:1539:GLN:NE2	2:F:177:UNK:CB	1.80	1.43
1:A:1416:PRO:CD	2:F:130:LYS:HG3	1.40	1.43
1:C:1598:TYR:CE2	2:E:199:UNK:N	1.84	1.43
1:A:1415:LYS:CA	2:F:130:LYS:HD3	1.50	1.42
1:B:1292:ASP:HB3	2:D:97:GLN:CA	1.20	1.41
1:A:1414:PHE:HB3	2:F:127:TRP:CA	1.10	1.41
1:A:1414:PHE:CB	2:F:127:TRP:HA	1.28	1.41
1:A:1264:LYS:CE	1:A:1268:LEU:CD1	1.99	1.40
1:C:1264:LYS:CE	1:C:1268:LEU:CD1	1.99	1.40
1:B:1264:LYS:CE	1:B:1268:LEU:CD1	1.99	1.39
1:C:1395:ILE:HG13	1:C:1404:TYR:CE2	1.58	1.38
1:A:1395:ILE:HG13	1:A:1404:TYR:CE2	1.58	1.38
1:A:1356:HIS:HB3	2:F:112:ARG:NH2	1.31	1.38
1:A:1416:PRO:HD3	2:F:130:LYS:CD	1.52	1.37
1:B:1414:PHE:C	2:D:130:LYS:HD3	1.49	1.37
1:B:1167:SER:O	1:B:1171:THR:HB	1.23	1.36
1:B:1292:ASP:CB	2:D:97:GLN:CA	1.82	1.36
1:B:1395:ILE:HG13	1:B:1404:TYR:CE2	1.58	1.36
1:A:1290:TYR:CD2	1:A:1299:LEU:HD13	1.61	1.36
1:C:1290:TYR:CD2	1:C:1299:LEU:HD13	1.61	1.36
1:B:1414:PHE:O	2:D:130:LYS:CD	1.72	1.35
1:A:1078:ASN:ND2	1:A:1101:ARG:O	1.59	1.35
2:D:112:ARG:C	2:D:112:ARG:HD3	1.50	1.34
1:B:1566:PHE:HZ	2:D:179:UNK:CA	1.21	1.34
1:A:1382:PRO:CB	2:F:123:MET:HE3	1.58	1.34
1:B:1108:TRP:CH2	1:B:1129:ILE:CG2	2.10	1.34
1:A:1108:TRP:CH2	1:A:1129:ILE:CG2	2.10	1.33
1:A:1108:TRP:HD1	1:A:1133:ASP:O	1.11	1.33
1:B:1566:PHE:HZ	2:D:179:UNK:CB	1.41	1.33
1:C:1253:TRP:CE3	1:C:1276:ILE:HG22	1.60	1.33
1:A:1253:TRP:CZ3	1:A:1276:ILE:CG2	2.06	1.33
1:A:1371:TYR:CD1	1:A:1394:ILE:HG23	1.64	1.33
1:A:1371:TYR:HD1	1:A:1394:ILE:CG2	1.42	1.33
1:B:1253:TRP:CE3	1:B:1276:ILE:HG22	1.60	1.33
1:B:1290:TYR:CD2	1:B:1299:LEU:HD13	1.61	1.33
1:B:1371:TYR:CD1	1:B:1394:ILE:HG23	1.64	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1371:TYR:HD1	1:B:1394:ILE:CG2	1.42	1.33
1:C:1371:TYR:HD1	1:C:1394:ILE:CG2	1.42	1.33
1:C:1409:GLN:HG3	1:C:1413:GLU:CG	1.59	1.33
1:A:1566:PHE:CE2	2:F:180:UNK:CB	2.12	1.32
1:C:1253:TRP:CZ3	1:C:1276:ILE:CG2	2.06	1.32
1:B:1253:TRP:CZ3	1:B:1276:ILE:CG2	2.06	1.32
1:B:1409:GLN:HG3	1:B:1413:GLU:CG	1.59	1.32
1:C:1409:GLN:CA	1:C:1413:GLU:HG2	1.60	1.32
1:A:1505:ILE:HD11	2:F:153:ASN:ND2	1.34	1.31
1:C:1371:TYR:CD1	1:C:1394:ILE:HG23	1.64	1.31
1:B:1078:ASN:ND2	1:B:1101:ARG:O	1.60	1.31
1:A:1253:TRP:CE3	1:A:1276:ILE:HG22	1.60	1.31
1:B:1250:THR:O	1:B:1251:ARG:HG2	1.22	1.31
1:A:1382:PRO:CB	2:F:123:MET:CE	2.09	1.31
1:B:1079:THR:HG22	1:B:1105:PRO:CG	1.60	1.31
1:C:1078:ASN:ND2	1:C:1101:ARG:O	1.60	1.31
1:B:1414:PHE:O	1:B:1416:PRO:HD3	1.25	1.31
1:C:1108:TRP:CH2	1:C:1129:ILE:CG2	2.11	1.31
1:A:1108:TRP:CZ3	1:A:1129:ILE:HB	1.66	1.30
1:A:1409:GLN:HG3	1:A:1413:GLU:CG	1.59	1.30
1:A:1475:GLU:CG	2:F:149:ASN:ND2	1.69	1.30
1:C:1079:THR:HG22	1:C:1105:PRO:CG	1.60	1.30
1:B:1130:LYS:HD2	1:B:1156:TYR:CE1	1.66	1.30
1:A:1409:GLN:CA	1:A:1413:GLU:HG2	1.60	1.30
1:A:1414:PHE:O	1:A:1416:PRO:HD3	1.25	1.30
1:B:1292:ASP:CB	2:D:97:GLN:HA	1.49	1.30
1:A:1079:THR:HG22	1:A:1105:PRO:CG	1.60	1.29
1:B:1409:GLN:CA	1:B:1413:GLU:HG2	1.60	1.29
1:C:1108:TRP:CZ3	1:C:1129:ILE:HB	1.66	1.29
1:A:1409:GLN:HA	1:A:1413:GLU:CG	1.61	1.29
1:A:1414:PHE:CE2	2:F:127:TRP:CD2	2.21	1.29
1:C:1130:LYS:HD2	1:C:1156:TYR:CE1	1.66	1.29
1:A:1130:LYS:HD2	1:A:1156:TYR:CE1	1.66	1.28
1:C:1414:PHE:O	1:C:1416:PRO:HD3	1.25	1.28
2:E:104:LYS:O	2:E:108:GLU:CG	1.79	1.28
2:E:119:ALA:O	2:E:123:MET:HG2	1.28	1.28
1:B:1108:TRP:CZ3	1:B:1129:ILE:HB	1.66	1.28
1:A:1250:THR:O	1:A:1251:ARG:HG2	1.22	1.28
1:B:1409:GLN:HA	1:B:1413:GLU:CG	1.61	1.28
1:C:1409:GLN:HA	1:C:1413:GLU:CG	1.61	1.28
1:A:1563:ARG:NH2	2:F:182:UNK:H	1.29	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1167:SER:O	1:A:1171:THR:HB	1.23	1.27
1:A:1356:HIS:CB	2:F:112:ARG:HH21	1.38	1.27
1:B:1079:THR:HG22	1:B:1105:PRO:CB	1.64	1.27
1:C:1250:THR:O	1:C:1251:ARG:HG2	1.22	1.27
1:A:1357:LEU:CD2	2:F:111:LYS:HE3	1.63	1.26
1:B:1358:TRP:CZ2	1:B:1381:HIS:CE1	2.24	1.26
1:C:1167:SER:O	1:C:1171:THR:HB	1.23	1.26
1:A:1356:HIS:CG	2:F:112:ARG:HH21	1.23	1.25
1:B:1108:TRP:HD1	1:B:1133:ASP:O	1.11	1.25
1:B:1414:PHE:O	2:D:130:LYS:HD3	1.14	1.25
1:A:1358:TRP:CZ2	1:A:1381:HIS:CE1	2.24	1.25
1:A:1079:THR:HG22	1:A:1105:PRO:CB	1.64	1.25
1:B:1566:PHE:CZ	2:D:179:UNK:CA	1.98	1.25
1:C:1079:THR:HG22	1:C:1105:PRO:CB	1.64	1.25
1:C:1358:TRP:CZ2	1:C:1381:HIS:CE1	2.24	1.25
1:B:1419:LEU:O	1:B:1422:LEU:HB3	1.34	1.24
1:C:1412:LEU:CD1	1:C:1419:LEU:HD21	1.68	1.24
1:A:1416:PRO:CG	2:F:130:LYS:CG	2.14	1.24
1:B:1395:ILE:CG1	1:B:1404:TYR:CE2	2.19	1.24
1:C:1108:TRP:HD1	1:C:1133:ASP:O	1.11	1.24
1:C:1395:ILE:CG1	1:C:1404:TYR:CE2	2.19	1.24
2:D:112:ARG:HD3	2:D:112:ARG:O	1.35	1.24
2:D:119:ALA:O	2:D:123:MET:HG2	1.28	1.24
1:A:1395:ILE:CG1	1:A:1404:TYR:CE2	2.19	1.24
1:A:1539:GLN:CD	2:F:177:UNK:CB	2.10	1.24
1:A:1605:GLU:HB2	1:B:1580:ASP:CG	1.60	1.24
1:B:1079:THR:O	1:B:1105:PRO:HG3	1.35	1.24
1:C:1130:LYS:HD2	1:C:1156:TYR:CD1	1.73	1.24
1:B:1292:ASP:C	2:D:97:GLN:HA	1.51	1.23
1:B:1412:LEU:CD1	1:B:1419:LEU:HD21	1.67	1.23
1:A:1130:LYS:HD2	1:A:1156:TYR:CD1	1.73	1.23
1:C:1419:LEU:O	1:C:1422:LEU:HB3	1.34	1.23
2:F:114:GLN:CG	2:F:115:GLU:H	1.47	1.23
1:C:1154:VAL:HG21	1:C:1180:THR:CG2	1.68	1.23
1:A:1079:THR:O	1:A:1105:PRO:HG3	1.35	1.22
1:A:1154:VAL:HG21	1:A:1180:THR:CG2	1.68	1.22
1:B:1414:PHE:HA	2:D:130:LYS:CD	1.66	1.22
1:A:1414:PHE:CE2	2:F:127:TRP:CE3	2.27	1.22
1:A:1414:PHE:CZ	2:F:127:TRP:CD2	2.28	1.22
1:B:1154:VAL:HG21	1:B:1180:THR:CG2	1.67	1.22
1:C:1429:ARG:CG	1:C:1429:ARG:O	1.73	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1429:ARG:CG	1:A:1429:ARG:O	1.73	1.22
1:B:1130:LYS:HD2	1:B:1156:TYR:CD1	1.73	1.22
1:A:1412:LEU:CD1	1:A:1419:LEU:HD21	1.68	1.22
2:E:114:GLN:CG	2:E:115:GLU:H	1.48	1.21
1:C:1079:THR:O	1:C:1105:PRO:HG3	1.35	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:A:1079:THR:CG2	1:A:1105:PRO:HG3	1.70	1.21
1:B:1409:GLN:O	1:B:1413:GLU:HB2	1.40	1.21
1:B:1108:TRP:CZ2	1:B:1129:ILE:HB	1.74	1.20
1:C:1079:THR:CG2	1:C:1105:PRO:HG3	1.70	1.20
1:C:1602:VAL:HG11	2:E:202:UNK:O	1.39	1.20
1:A:1108:TRP:CZ2	1:A:1129:ILE:HB	1.74	1.20
1:C:1108:TRP:CZ2	1:C:1129:ILE:HB	1.74	1.20
1:A:1327:PHE:CZ	2:F:104:LYS:CG	2.20	1.20
1:A:1475:GLU:CB	2:F:149:ASN:ND2	2.03	1.20
1:B:1079:THR:CG2	1:B:1105:PRO:HG3	1.71	1.20
1:B:1427:SER:HB2	1:B:1428:PRO:HD3	1.20	1.20
1:C:1279:HIS:HE1	1:C:1286:LEU:HD22	1.07	1.20
1:B:1279:HIS:CG	1:B:1282:GLU:HB3	1.77	1.20
1:A:1409:GLN:O	1:A:1413:GLU:HB2	1.40	1.19
1:A:1419:LEU:O	1:A:1422:LEU:HB3	1.34	1.19
1:B:1414:PHE:O	2:D:130:LYS:CE	1.90	1.19
1:A:1382:PRO:HG2	2:F:123:MET:CE	1.71	1.19
1:C:1463:VAL:O	1:C:1467:LEU:HB2	1.04	1.19
1:A:1162:LYS:HG3	1:A:1163:LYS:NZ	1.58	1.19
1:B:1463:VAL:O	1:B:1467:LEU:HB2	1.04	1.19
1:C:1279:HIS:CD2	1:C:1282:GLU:HB3	1.78	1.19
1:A:1444:GLN:HG2	2:F:134:ASP:CB	1.54	1.19
1:C:1409:GLN:O	1:C:1413:GLU:HB2	1.40	1.19
1:A:1079:THR:CG2	1:A:1105:PRO:CG	2.21	1.19
1:A:1279:HIS:CG	1:A:1282:GLU:HB3	1.77	1.19
1:A:1580:ASP:OD1	1:C:1605:GLU:HB2	1.38	1.19
1:C:1361:LEU:CD2	1:C:1365:TYR:CE2	2.25	1.19
1:C:1588:ARG:HD2	2:D:197:UNK:CB	1.73	1.19
1:A:1361:LEU:CD2	1:A:1365:TYR:CE2	2.25	1.18
1:A:1475:GLU:OE2	2:F:146:VAL:HA	1.04	1.18
1:C:1326:LYS:CG	1:C:1326:LYS:O	1.90	1.18
2:D:114:GLN:CG	2:D:115:GLU:H	1.48	1.18
2:D:174:UNK:HA	2:D:176:UNK:N	1.59	1.18
1:A:1165:ARG:NH2	1:A:1194:ASN:OD1	1.76	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1079:THR:O	1:B:1105:PRO:CG	1.91	1.18
1:B:1162:LYS:HG3	1:B:1163:LYS:NZ	1.58	1.18
1:B:1361:LEU:CD2	1:B:1365:TYR:CE2	2.25	1.18
1:B:1253:TRP:O	1:B:1289:TYR:CE2	1.96	1.18
1:B:1165:ARG:NH2	1:B:1194:ASN:OD1	1.76	1.18
1:A:1253:TRP:O	1:A:1289:TYR:CE2	1.96	1.18
1:A:1427:SER:HB2	1:A:1428:PRO:HD3	1.20	1.18
1:C:1408:ILE:HG22	1:C:1412:LEU:HB3	1.20	1.18
1:A:1159:MET:HA	1:A:1163:LYS:HZ3	1.04	1.17
1:A:1326:LYS:CG	1:A:1326:LYS:O	1.90	1.17
1:A:1427:SER:CB	1:A:1428:PRO:HD3	1.74	1.17
1:B:1279:HIS:CD2	1:B:1282:GLU:HB3	1.78	1.17
1:B:1079:THR:CG2	1:B:1105:PRO:CG	2.21	1.17
1:C:1108:TRP:CD1	1:C:1133:ASP:O	1.98	1.17
1:C:1253:TRP:O	1:C:1289:TYR:CE2	1.96	1.17
1:C:1490:PHE:CE1	1:C:1492:ASN:OD1	1.98	1.17
1:A:1279:HIS:CD2	1:A:1282:GLU:HB3	1.78	1.17
1:A:1463:VAL:O	1:A:1467:LEU:HB2	1.04	1.17
1:A:1505:ILE:CD1	2:F:153:ASN:HD21	1.41	1.17
1:B:1490:PHE:CE1	1:B:1492:ASN:OD1	1.97	1.17
1:C:1165:ARG:NH2	1:C:1194:ASN:OD1	1.76	1.17
1:C:1279:HIS:CG	1:C:1282:GLU:HB3	1.77	1.17
1:A:1079:THR:O	1:A:1105:PRO:CG	1.91	1.17
1:A:1416:PRO:CG	2:F:130:LYS:HG2	1.72	1.17
1:C:1162:LYS:HG3	1:C:1163:LYS:NZ	1.58	1.17
1:C:1358:TRP:HE3	1:C:1377:THR:CG2	1.58	1.16
1:A:1414:PHE:CE1	2:F:127:TRP:CD1	1.89	1.16
1:A:1586:ALA:HB1	1:A:1590:ASN:ND2	1.61	1.16
1:B:1108:TRP:CZ3	1:B:1129:ILE:CB	2.27	1.16
1:B:1586:ALA:HB1	1:B:1590:ASN:HD21	1.09	1.16
1:C:1079:THR:O	1:C:1105:PRO:CG	1.91	1.16
1:A:1490:PHE:CE1	1:A:1492:ASN:OD1	1.98	1.16
1:B:1108:TRP:CD1	1:B:1133:ASP:O	1.98	1.16
1:B:1427:SER:CB	1:B:1428:PRO:HD3	1.75	1.16
1:C:1079:THR:CG2	1:C:1105:PRO:CG	2.21	1.16
1:A:1108:TRP:CD1	1:A:1133:ASP:O	1.98	1.16
1:A:1170:GLU:OE2	1:A:1195:ASN:O	1.64	1.16
1:A:1601:GLN:CG	1:B:1587:TRP:CH2	2.29	1.16
2:E:114:GLN:HG3	2:E:115:GLU:N	1.46	1.16
1:A:1358:TRP:HE3	1:A:1377:THR:CG2	1.58	1.16
1:A:1605:GLU:CG	1:B:1580:ASP:OD2	1.94	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1358:TRP:HE3	1:B:1377:THR:CG2	1.58	1.16
1:B:1566:PHE:CZ	2:D:179:UNK:HA	1.80	1.16
1:B:1586:ALA:HB1	1:B:1590:ASN:ND2	1.61	1.16
1:C:1427:SER:CB	1:C:1428:PRO:HD3	1.75	1.16
1:B:1170:GLU:OE2	1:B:1195:ASN:O	1.64	1.15
1:B:1293:ARG:N	2:D:97:GLN:OE1	1.79	1.15
1:B:1326:LYS:O	1:B:1326:LYS:CG	1.90	1.15
1:A:1382:PRO:CG	2:F:123:MET:CE	2.21	1.15
1:C:1358:TRP:CH2	1:C:1381:HIS:NE2	2.15	1.15
2:F:162:GLN:C	2:F:166:ALA:HB3	1.70	1.15
1:A:1167:SER:C	1:A:1171:THR:HB	1.71	1.15
1:A:1586:ALA:HB1	1:A:1590:ASN:HD21	1.09	1.15
1:B:1083:GLN:OE1	1:B:1105:PRO:O	1.64	1.15
1:A:1148:GLY:CA	1:A:1150:TRP:CZ3	2.30	1.15
1:A:1358:TRP:CH2	1:A:1381:HIS:NE2	2.15	1.15
1:A:1382:PRO:HB2	2:F:123:MET:CE	1.68	1.15
1:A:1602:VAL:HG13	2:F:203:UNK:O	1.47	1.15
1:B:1509:ARG:NH1	2:D:166:ALA:H	1.44	1.15
1:C:1108:TRP:HH2	1:C:1129:ILE:HG22	1.12	1.15
1:B:1148:GLY:CA	1:B:1150:TRP:CZ3	2.30	1.15
1:B:1167:SER:C	1:B:1171:THR:HB	1.71	1.15
1:B:1221:VAL:HG13	1:B:1222:SER:N	1.58	1.15
1:B:1358:TRP:CH2	1:B:1381:HIS:NE2	2.15	1.15
1:C:1083:GLN:OE1	1:C:1105:PRO:O	1.64	1.15
1:C:1148:GLY:CA	1:C:1150:TRP:CZ3	2.30	1.15
1:A:1108:TRP:HH2	1:A:1129:ILE:HG22	1.12	1.14
1:B:1414:PHE:CA	2:D:130:LYS:CD	2.22	1.14
2:F:183:UNK:HA	2:F:188:UNK:N	1.61	1.14
1:A:1083:GLN:OE1	1:A:1105:PRO:O	1.64	1.14
1:A:1463:VAL:O	1:A:1467:LEU:CB	1.95	1.14
1:C:1109:SER:HB2	1:C:1135:SER:HB3	1.25	1.14
1:C:1463:VAL:O	1:C:1467:LEU:CB	1.95	1.14
1:A:1327:PHE:CZ	2:F:104:LYS:HG3	1.53	1.14
1:C:1167:SER:C	1:C:1171:THR:HB	1.71	1.14
1:A:1111:LEU:HD11	1:A:1125:ILE:HG13	1.29	1.13
1:A:1327:PHE:HE1	2:F:104:LYS:CB	1.50	1.13
1:A:1358:TRP:NE1	2:F:115:GLU:HG2	1.63	1.13
1:C:1474:GLU:O	2:E:141:ARG:HD3	1.48	1.13
1:C:1586:ALA:HB1	1:C:1590:ASN:ND2	1.61	1.13
1:B:1113:LYS:HA	1:B:1139:GLU:OE2	1.48	1.13
1:C:1154:VAL:HG21	1:C:1180:THR:HG21	1.17	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1358:TRP:CZ3	1:C:1381:HIS:NE2	2.16	1.13
2:D:114:GLN:HG3	2:D:115:GLU:N	1.45	1.13
1:A:1605:GLU:HB2	1:B:1580:ASP:OD1	1.46	1.13
1:B:1429:ARG:CG	1:B:1429:ARG:O	1.73	1.13
1:B:1463:VAL:O	1:B:1467:LEU:CB	1.95	1.13
1:C:1113:LYS:HA	1:C:1139:GLU:OE2	1.48	1.13
1:C:1170:GLU:OE2	1:C:1195:ASN:O	1.64	1.13
1:C:1361:LEU:HD21	1:C:1365:TYR:CE2	1.83	1.13
1:A:1566:PHE:HE2	2:F:180:UNK:CB	1.56	1.12
1:B:1253:TRP:CE3	1:B:1276:ILE:HG21	1.75	1.13
1:B:1264:LYS:HE2	1:B:1268:LEU:CD1	1.72	1.12
1:B:1267:ARG:NH1	1:B:1298:GLU:OE2	1.82	1.13
1:B:1292:ASP:CB	2:D:97:GLN:CB	2.17	1.12
1:B:1444:GLN:HG2	2:D:134:ASP:HB3	1.14	1.12
1:B:1504:LEU:CD2	2:D:152:ASN:CB	2.27	1.12
1:B:1605:GLU:HA	1:B:1608:THR:HB	1.28	1.12
1:C:1427:SER:HB2	1:C:1428:PRO:HD3	1.20	1.12
1:A:1382:PRO:HB2	2:F:123:MET:HE1	1.23	1.12
1:A:1444:GLN:HG2	2:F:134:ASP:HB2	1.23	1.12
1:A:1578:ARG:CZ	1:A:1583:LEU:HD23	1.80	1.12
1:B:1578:ARG:CZ	1:B:1583:LEU:HD23	1.80	1.12
1:C:1427:SER:HB2	1:C:1428:PRO:CD	1.79	1.12
1:A:1326:LYS:O	1:A:1326:LYS:HG2	1.31	1.12
1:A:1605:GLU:HA	1:A:1608:THR:HB	1.28	1.12
1:B:1358:TRP:CZ3	1:B:1381:HIS:NE2	2.16	1.12
1:C:1108:TRP:CZ3	1:C:1129:ILE:CB	2.27	1.12
1:A:1267:ARG:NH1	1:A:1298:GLU:OE2	1.82	1.12
1:A:1358:TRP:CZ3	1:A:1381:HIS:NE2	2.16	1.12
1:A:1361:LEU:HD21	1:A:1365:TYR:CE2	1.83	1.12
1:C:1411:TYR:HA	1:C:1415:LYS:HB3	1.30	1.12
1:A:1108:TRP:CZ3	1:A:1129:ILE:CB	2.27	1.12
1:A:1113:LYS:HA	1:A:1139:GLU:OE2	1.49	1.12
1:C:1586:ALA:HB1	1:C:1590:ASN:HD21	1.09	1.12
1:A:1411:TYR:CA	1:A:1415:LYS:HB3	1.80	1.11
1:B:1122:LYS:NZ	1:B:1147:SER:OG	1.83	1.11
1:B:1361:LEU:HD21	1:B:1365:TYR:CE2	1.83	1.11
1:A:1427:SER:HB2	1:A:1428:PRO:CD	1.79	1.11
1:B:1279:HIS:HE1	1:B:1286:LEU:HD22	1.07	1.11
1:C:1221:VAL:HG13	1:C:1222:SER:N	1.58	1.11
1:C:1475:GLU:OE1	2:E:141:ARG:HG2	1.47	1.11
1:B:1411:TYR:CA	1:B:1415:LYS:HB3	1.80	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1414:PHE:C	2:D:130:LYS:CD	2.15	1.11
1:C:1159:MET:HA	1:C:1163:LYS:HZ1	1.05	1.11
1:C:1253:TRP:CE3	1:C:1276:ILE:HG21	1.75	1.11
1:A:1411:TYR:HA	1:A:1415:LYS:HB3	1.30	1.11
1:B:1411:TYR:HA	1:B:1415:LYS:HB3	1.30	1.11
1:C:1167:SER:O	1:C:1171:THR:CB	1.99	1.11
1:C:1578:ARG:CZ	1:C:1583:LEU:HD23	1.80	1.11
1:A:1078:ASN:ND2	1:A:1101:ARG:C	2.08	1.11
1:A:1475:GLU:HG2	2:F:149:ASN:ND2	1.66	1.11
1:B:1293:ARG:HA	2:D:96:THR:HG23	1.32	1.11
1:C:1411:TYR:CA	1:C:1415:LYS:HB3	1.80	1.11
2:F:195:UNK:CA	2:F:197:UNK:CB	2.29	1.11
1:A:1122:LYS:NZ	1:A:1147:SER:OG	1.83	1.10
2:F:114:GLN:HG3	2:F:115:GLU:N	1.46	1.10
1:A:1221:VAL:HG13	1:A:1222:SER:N	1.58	1.10
1:A:1279:HIS:HE1	1:A:1286:LEU:HD22	1.07	1.10
1:A:1414:PHE:CZ	2:F:127:TRP:CG	2.17	1.10
1:B:1109:SER:HB2	1:B:1135:SER:HB3	1.25	1.10
1:C:1111:LEU:HD11	1:C:1125:ILE:HG13	1.29	1.10
1:C:1122:LYS:HA	1:C:1125:ILE:HG22	1.31	1.10
1:A:1357:LEU:CD2	2:F:111:LYS:CE	2.29	1.10
1:A:1408:ILE:HG22	1:A:1412:LEU:HB3	1.20	1.10
1:B:1078:ASN:ND2	1:B:1101:ARG:C	2.08	1.10
1:B:1167:SER:O	1:B:1171:THR:CB	1.99	1.10
1:C:1267:ARG:NH1	1:C:1298:GLU:OE2	1.82	1.10
1:A:1253:TRP:CE3	1:A:1276:ILE:HG21	1.74	1.10
1:B:1292:ASP:CA	2:D:97:GLN:CA	2.17	1.10
1:B:1108:TRP:CZ3	1:B:1129:ILE:CG2	2.35	1.10
1:B:1455:VAL:HG12	1:B:1456:GLN:H	1.17	1.10
1:C:1078:ASN:ND2	1:C:1101:ARG:C	2.08	1.10
1:C:1122:LYS:NZ	1:C:1147:SER:OG	1.83	1.10
1:C:1274:LEU:HG	1:C:1302:MET:HG2	1.34	1.10
1:A:1154:VAL:HG21	1:A:1180:THR:HG21	1.17	1.09
1:A:1416:PRO:CD	2:F:130:LYS:HG2	1.73	1.09
1:A:1416:PRO:CG	2:F:130:LYS:HG3	1.80	1.09
1:A:1490:PHE:CZ	1:A:1492:ASN:OD1	2.05	1.09
1:A:1596:MET:H	1:A:1597:PRO:HD2	1.06	1.09
1:B:1221:VAL:HG13	1:B:1222:SER:H	1.12	1.09
1:B:1108:TRP:HH2	1:B:1129:ILE:HG22	1.12	1.09
1:B:1358:TRP:O	1:B:1362:VAL:HG23	1.51	1.09
1:B:1408:ILE:HG22	1:B:1412:LEU:HB3	1.20	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1566:PHE:CZ	2:D:179:UNK:CB	2.28	1.09
1:B:1596:MET:H	1:B:1597:PRO:HD2	1.06	1.09
1:C:1108:TRP:CZ3	1:C:1129:ILE:CG2	2.35	1.09
1:C:1596:MET:H	1:C:1597:PRO:HD2	1.06	1.09
1:B:1427:SER:HB2	1:B:1428:PRO:CD	1.79	1.09
1:A:1122:LYS:HA	1:A:1125:ILE:HG22	1.32	1.09
1:B:1085:LEU:HD13	1:B:1098:PHE:HE1	1.16	1.09
1:B:1274:LEU:HG	1:B:1302:MET:HG2	1.34	1.09
1:A:1108:TRP:CZ3	1:A:1129:ILE:CG2	2.35	1.09
1:A:1267:ARG:CZ	1:A:1298:GLU:OE2	2.01	1.09
1:A:1327:PHE:CE1	2:F:104:LYS:CB	2.26	1.09
1:A:1358:TRP:O	1:A:1362:VAL:HG23	1.51	1.09
1:A:1417:LEU:O	1:A:1418:LEU:HB2	1.50	1.09
1:B:1111:LEU:HD11	1:B:1125:ILE:HG13	1.29	1.09
1:B:1159:MET:HA	1:B:1163:LYS:HZ3	1.06	1.09
1:B:1504:LEU:HD22	2:D:152:ASN:HB2	1.26	1.09
1:C:1079:THR:HG22	1:C:1105:PRO:HG3	1.21	1.09
2:D:181:UNK:CA	2:D:183:UNK:CB	2.30	1.09
1:B:1490:PHE:CZ	1:B:1492:ASN:OD1	2.05	1.08
1:C:1326:LYS:O	1:C:1326:LYS:HG2	1.31	1.08
1:A:1162:LYS:CG	1:A:1163:LYS:HZ1	1.66	1.08
1:A:1167:SER:O	1:A:1171:THR:CB	1.99	1.08
1:A:1357:LEU:HD21	2:F:111:LYS:CE	1.82	1.08
1:A:1414:PHE:CB	2:F:127:TRP:CA	1.75	1.08
1:A:1455:VAL:HG12	1:A:1456:GLN:H	1.17	1.08
1:B:1154:VAL:HG21	1:B:1180:THR:HG21	1.17	1.08
1:B:1475:GLU:OE1	2:D:145:GLN:CD	1.96	1.08
1:C:1455:VAL:HG12	1:C:1456:GLN:H	1.17	1.08
2:E:119:ALA:O	2:E:123:MET:CG	2.01	1.08
1:B:1412:LEU:HD13	1:B:1419:LEU:HD21	1.10	1.08
1:C:1264:LYS:HE2	1:C:1268:LEU:HD12	1.09	1.08
2:E:104:LYS:O	2:E:108:GLU:HG3	1.51	1.08
1:C:1113:LYS:CA	1:C:1139:GLU:OE2	2.02	1.08
1:A:1107:VAL:HG12	1:A:1107:VAL:O	1.26	1.08
1:B:1326:LYS:O	1:B:1326:LYS:HG2	1.31	1.08
1:C:1358:TRP:O	1:C:1362:VAL:HG23	1.51	1.08
1:C:1490:PHE:CZ	1:C:1492:ASN:OD1	2.05	1.08
1:A:1109:SER:HB2	1:A:1135:SER:HB3	1.25	1.07
1:A:1166:GLU:O	1:A:1170:GLU:N	1.87	1.07
1:B:1079:THR:HG22	1:B:1105:PRO:HB3	1.33	1.07
1:B:1122:LYS:HA	1:B:1125:ILE:HG22	1.32	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1107:VAL:O	1:C:1107:VAL:CG1	2.01	1.07
2:D:119:ALA:O	2:D:123:MET:CG	2.02	1.07
1:A:1475:GLU:HB3	2:F:149:ASN:ND2	1.69	1.07
1:B:1166:GLU:OE1	1:B:1169:VAL:HG23	1.53	1.07
1:B:1267:ARG:CZ	1:B:1298:GLU:OE2	2.01	1.07
1:C:1078:ASN:O	1:C:1102:CYS:HB3	1.54	1.07
1:C:1267:ARG:CZ	1:C:1298:GLU:OE2	2.01	1.07
1:B:1361:LEU:CD2	1:B:1365:TYR:HE2	1.66	1.07
1:C:1104:GLU:HB2	1:C:1108:TRP:CZ2	1.89	1.07
1:A:1078:ASN:O	1:A:1102:CYS:HB3	1.54	1.07
1:A:1104:GLU:HB2	1:A:1108:TRP:CZ2	1.89	1.07
1:A:1113:LYS:CA	1:A:1139:GLU:OE2	2.02	1.07
1:A:1258:PHE:CZ	2:F:93:ASP:OD1	2.06	1.07
1:A:1504:LEU:HD11	2:F:149:ASN:O	1.54	1.07
1:C:1085:LEU:HD13	1:C:1098:PHE:HE1	1.17	1.07
1:B:1113:LYS:CA	1:B:1139:GLU:OE2	2.02	1.06
2:D:137:GLU:O	2:D:141:ARG:NH2	1.88	1.06
1:A:1078:ASN:O	1:A:1102:CYS:SG	2.13	1.06
1:A:1159:MET:HA	1:A:1163:LYS:NZ	1.70	1.06
1:A:1250:THR:O	1:A:1251:ARG:CG	2.04	1.06
2:D:174:UNK:CB	2:D:177:UNK:CB	2.33	1.06
2:D:181:UNK:HA	2:D:183:UNK:CB	1.85	1.06
1:A:1079:THR:HG22	1:A:1105:PRO:HB3	1.33	1.06
1:B:1159:MET:HA	1:B:1163:LYS:NZ	1.69	1.06
1:B:1292:ASP:HB3	2:D:97:GLN:HB3	1.35	1.06
1:B:1327:PHE:HA	2:D:104:LYS:HZ1	0.95	1.06
1:C:1079:THR:HG22	1:C:1105:PRO:HB3	1.33	1.06
1:C:1107:VAL:O	1:C:1107:VAL:HG12	1.26	1.06
1:C:1504:LEU:HD11	2:E:149:ASN:HD21	1.18	1.06
1:C:1605:GLU:HA	1:C:1608:THR:HB	1.28	1.06
2:F:162:GLN:CA	2:F:166:ALA:CB	2.33	1.06
2:F:163:GLN:N	2:F:166:ALA:HB3	1.70	1.06
1:A:1605:GLU:CB	1:B:1580:ASP:OD2	2.03	1.06
1:C:1078:ASN:O	1:C:1102:CYS:SG	2.13	1.06
2:F:195:UNK:HA	2:F:197:UNK:CB	1.84	1.06
1:B:1078:ASN:O	1:B:1102:CYS:HB3	1.54	1.06
1:B:1250:THR:O	1:B:1251:ARG:CG	2.04	1.06
1:C:1166:GLU:OE1	1:C:1169:VAL:HG23	1.53	1.06
1:C:1412:LEU:HD13	1:C:1419:LEU:HD21	1.09	1.06
1:C:1417:LEU:O	1:C:1418:LEU:HB2	1.50	1.06
1:B:1166:GLU:O	1:B:1170:GLU:N	1.87	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1079:THR:CG2	1:C:1105:PRO:HB3	1.86	1.05
1:C:1162:LYS:CG	1:C:1163:LYS:HZ2	1.68	1.05
1:C:1166:GLU:O	1:C:1170:GLU:N	1.87	1.05
1:C:1387:LYS:HB2	1:C:1390:GLN:CB	1.86	1.05
1:A:1166:GLU:OE1	1:A:1169:VAL:HG23	1.53	1.05
1:A:1264:LYS:HE2	1:A:1268:LEU:HD12	1.09	1.05
1:A:1300:ILE:HG22	1:A:1323:LEU:HD13	1.39	1.05
1:B:1079:THR:CG2	1:B:1105:PRO:HB3	1.87	1.05
1:B:1108:TRP:CH2	1:B:1129:ILE:HG22	1.86	1.05
1:C:1159:MET:HA	1:C:1163:LYS:NZ	1.69	1.05
1:A:1357:LEU:HD23	2:F:111:LYS:HE3	1.29	1.05
1:B:1145:ASN:ND2	1:B:1150:TRP:HE1	1.54	1.05
1:B:1264:LYS:HE2	1:B:1268:LEU:HD12	1.09	1.05
1:B:1408:ILE:HG22	1:B:1412:LEU:CB	1.87	1.05
1:B:1417:LEU:O	1:B:1418:LEU:HB2	1.50	1.05
1:A:1580:ASP:OD2	1:C:1605:GLU:HG3	1.57	1.05
1:B:1078:ASN:O	1:B:1102:CYS:SG	2.14	1.05
1:B:1159:MET:C	1:B:1163:LYS:CE	2.30	1.05
1:C:1250:THR:O	1:C:1251:ARG:CG	2.04	1.05
1:C:1264:LYS:HE3	1:C:1268:LEU:CD1	1.74	1.05
1:C:1504:LEU:HD21	2:E:149:ASN:CG	1.82	1.05
1:A:1079:THR:CG2	1:A:1105:PRO:HB3	1.87	1.04
1:A:1267:ARG:NH2	1:A:1298:GLU:OE2	1.90	1.04
1:B:1104:GLU:HB2	1:B:1108:TRP:CZ2	1.89	1.04
1:B:1327:PHE:HA	2:D:104:LYS:NZ	1.72	1.04
1:B:1411:TYR:C	1:B:1415:LYS:HB3	1.82	1.04
1:C:1159:MET:C	1:C:1163:LYS:CE	2.30	1.04
1:A:1085:LEU:HD13	1:A:1098:PHE:HE1	1.17	1.04
1:A:1159:MET:C	1:A:1163:LYS:CE	2.30	1.04
1:A:1279:HIS:CE1	1:A:1286:LEU:HD22	1.93	1.04
1:A:1411:TYR:C	1:A:1415:LYS:HB3	1.82	1.04
1:B:1264:LYS:HE3	1:B:1268:LEU:CD1	1.74	1.04
1:B:1504:LEU:HD21	2:D:152:ASN:HB2	1.11	1.04
1:C:1620:ARG:HB2	1:C:1620:ARG:HH11	1.23	1.04
1:A:1221:VAL:HG13	1:A:1222:SER:H	1.12	1.04
1:A:1387:LYS:HB2	1:A:1390:GLN:CB	1.87	1.04
1:B:1078:ASN:HD22	1:B:1101:ARG:HB3	1.23	1.04
1:B:1159:MET:CA	1:B:1163:LYS:HZ3	1.69	1.04
1:A:1107:VAL:O	1:A:1107:VAL:CG1	2.01	1.04
1:A:1145:ASN:ND2	1:A:1150:TRP:HE1	1.54	1.04
1:B:1107:VAL:O	1:B:1107:VAL:CG1	2.01	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1107:VAL:O	1:B:1107:VAL:HG12	1.26	1.04
1:B:1279:HIS:CE1	1:B:1286:LEU:HD22	1.93	1.04
1:C:1279:HIS:CE1	1:C:1286:LEU:HD22	1.93	1.04
1:A:1274:LEU:HG	1:A:1302:MET:HG2	1.34	1.04
1:A:1412:LEU:HD13	1:A:1419:LEU:HD21	1.10	1.04
1:A:1416:PRO:HG3	2:F:130:LYS:HG2	1.30	1.04
1:A:1456:GLN:O	1:A:1456:GLN:HG2	1.58	1.04
1:C:1456:GLN:CG	1:C:1456:GLN:O	1.94	1.04
2:E:155:ILE:HD12	2:E:155:ILE:H	1.19	1.04
1:A:1474:GLU:O	2:F:145:GLN:HB3	1.58	1.03
1:A:1601:GLN:CG	1:B:1587:TRP:HH2	1.68	1.03
1:B:1079:THR:HG22	1:B:1105:PRO:HG3	1.21	1.03
1:B:1300:ILE:HG22	1:B:1323:LEU:HD13	1.39	1.03
1:B:1456:GLN:CG	1:B:1456:GLN:O	1.94	1.03
2:D:174:UNK:H	2:D:175:UNK:CB	1.70	1.03
2:E:189:UNK:O	2:E:195:UNK:CB	2.06	1.03
1:A:1122:LYS:CE	1:A:1147:SER:OG	2.07	1.03
1:B:1162:LYS:CG	1:B:1163:LYS:HZ1	1.70	1.03
1:B:1387:LYS:HB2	1:B:1390:GLN:CB	1.87	1.03
1:B:1504:LEU:HG	2:D:149:ASN:HA	1.37	1.03
1:C:1159:MET:CA	1:C:1163:LYS:HZ1	1.70	1.03
1:C:1259:ALA:C	1:C:1293:ARG:HH12	1.66	1.03
1:C:1264:LYS:HE2	1:C:1268:LEU:CD1	1.72	1.03
1:C:1408:ILE:HG22	1:C:1412:LEU:CB	1.87	1.03
1:C:1411:TYR:C	1:C:1415:LYS:HB3	1.82	1.03
1:A:1159:MET:C	1:A:1163:LYS:HE2	1.84	1.03
1:A:1259:ALA:C	1:A:1293:ARG:HH12	1.66	1.03
1:B:1504:LEU:HG	2:D:149:ASN:O	1.58	1.03
1:B:1521:TRP:CE3	1:B:1522:LYS:HD2	1.94	1.03
1:C:1145:ASN:ND2	1:C:1150:TRP:HE1	1.54	1.03
1:C:1300:ILE:HG22	1:C:1323:LEU:HD13	1.39	1.03
1:A:1411:TYR:O	1:A:1415:LYS:HB3	1.58	1.03
1:B:1259:ALA:C	1:B:1293:ARG:HH12	1.66	1.03
1:B:1444:GLN:CG	2:D:134:ASP:HB3	1.88	1.03
1:C:1521:TRP:CE3	1:C:1522:LYS:HD2	1.94	1.03
1:A:1414:PHE:CE2	2:F:127:TRP:CG	2.42	1.03
1:A:1585:THR:O	1:A:1589:HIS:HB2	1.59	1.03
1:C:1358:TRP:CE3	1:C:1377:THR:HG23	1.94	1.03
1:A:1605:GLU:HB2	1:B:1580:ASP:OD2	1.58	1.02
1:B:1267:ARG:NH2	1:B:1298:GLU:OE2	1.90	1.02
1:C:1104:GLU:O	1:C:1108:TRP:CZ2	2.12	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1165:ARG:HH21	1:C:1194:ASN:CG	1.67	1.02
1:C:1267:ARG:NH2	1:C:1298:GLU:OE2	1.90	1.02
1:C:1361:LEU:CD2	1:C:1365:TYR:HE2	1.66	1.02
1:A:1159:MET:CA	1:A:1163:LYS:HZ3	1.71	1.02
1:A:1358:TRP:CZ3	1:A:1381:HIS:CD2	2.47	1.02
1:A:1408:ILE:HG22	1:A:1412:LEU:CB	1.87	1.02
1:A:1587:TRP:HH2	1:C:1601:GLN:HG2	1.21	1.02
1:B:1162:LYS:HG3	1:B:1163:LYS:HZ1	0.88	1.02
1:A:1165:ARG:HH21	1:A:1194:ASN:CG	1.67	1.02
1:B:1122:LYS:CE	1:B:1147:SER:OG	2.07	1.02
1:C:1078:ASN:O	1:C:1102:CYS:CB	2.08	1.02
1:A:1104:GLU:O	1:A:1108:TRP:CZ2	2.13	1.02
1:A:1371:TYR:CD1	1:A:1394:ILE:CG2	2.33	1.02
1:A:1505:ILE:HD12	2:F:153:ASN:HD21	0.85	1.02
1:B:1165:ARG:HH21	1:B:1194:ASN:CG	1.67	1.02
1:B:1456:GLN:O	1:B:1456:GLN:HG2	1.58	1.02
1:A:1078:ASN:O	1:A:1102:CYS:CB	2.08	1.02
1:A:1327:PHE:CE1	2:F:104:LYS:HB3	1.90	1.02
1:B:1108:TRP:NE1	1:B:1132:ASP:OD1	1.93	1.02
1:B:1411:TYR:O	1:B:1415:LYS:HB3	1.58	1.02
1:C:1078:ASN:HD22	1:C:1101:ARG:HB3	1.23	1.02
1:C:1122:LYS:CE	1:C:1147:SER:OG	2.07	1.02
1:C:1326:LYS:O	1:C:1327:PHE:CD1	2.13	1.02
1:C:1358:TRP:CZ3	1:C:1381:HIS:CD2	2.47	1.02
1:C:1620:ARG:HH11	1:C:1620:ARG:CB	1.73	1.02
1:A:1079:THR:HG23	1:A:1105:PRO:HD3	1.41	1.01
1:A:1326:LYS:O	1:A:1327:PHE:CD1	2.13	1.01
1:A:1620:ARG:HH11	1:A:1620:ARG:HB2	1.23	1.01
1:B:1159:MET:C	1:B:1163:LYS:HE2	1.84	1.01
1:B:1358:TRP:CZ3	1:B:1381:HIS:CD2	2.47	1.01
1:B:1358:TRP:CE3	1:B:1377:THR:HG23	1.94	1.01
1:C:1108:TRP:NE1	1:C:1132:ASP:OD1	1.93	1.01
1:C:1361:LEU:O	1:C:1361:LEU:HD23	1.60	1.01
1:A:1078:ASN:HD22	1:A:1101:ARG:HB3	1.23	1.01
1:B:1104:GLU:O	1:B:1108:TRP:CZ2	2.12	1.01
1:B:1361:LEU:HD23	1:B:1361:LEU:O	1.60	1.01
1:B:1585:THR:O	1:B:1589:HIS:HB2	1.59	1.01
1:C:1429:ARG:O	1:C:1429:ARG:HG2	1.20	1.01
1:C:1585:THR:O	1:C:1589:HIS:HB2	1.59	1.01
1:C:1411:TYR:O	1:C:1415:LYS:HB3	1.58	1.01
2:D:98:GLU:HB3	2:D:99:PRO:HD3	1.40	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1358:TRP:CE3	1:A:1377:THR:HG23	1.94	1.01
1:A:1563:ARG:NH2	2:F:182:UNK:N	2.08	1.01
1:B:1079:THR:CG2	1:B:1105:PRO:CB	2.39	1.01
1:B:1414:PHE:CA	2:D:130:LYS:HD2	1.83	1.01
1:C:1296:PHE:O	1:C:1299:LEU:N	1.94	1.01
2:F:162:GLN:HA	2:F:166:ALA:HB2	1.03	1.01
1:A:1079:THR:CG2	1:A:1105:PRO:CB	2.39	1.01
1:A:1415:LYS:N	2:F:130:LYS:HD3	1.22	1.01
1:A:1429:ARG:O	1:A:1429:ARG:HG2	1.20	1.01
1:A:1620:ARG:HH11	1:A:1620:ARG:CB	1.73	1.01
1:B:1620:ARG:HH11	1:B:1620:ARG:CB	1.73	1.01
1:B:1620:ARG:HH11	1:B:1620:ARG:HB2	1.23	1.01
1:C:1159:MET:C	1:C:1163:LYS:HE2	1.84	1.01
1:A:1361:LEU:O	1:A:1361:LEU:HD23	1.60	1.00
1:A:1408:ILE:O	1:A:1412:LEU:N	1.94	1.00
1:A:1409:GLN:CA	1:A:1413:GLU:CG	2.30	1.00
1:A:1521:TRP:CE3	1:A:1522:LYS:HD2	1.94	1.00
1:A:1264:LYS:HE2	1:A:1268:LEU:CD1	1.72	1.00
1:A:1411:TYR:HA	1:A:1415:LYS:CB	1.91	1.00
1:B:1244:ALA:HB2	1:B:1253:TRP:CH2	1.96	1.00
1:B:1326:LYS:O	1:B:1327:PHE:CD1	2.14	1.00
1:C:1358:TRP:CE3	1:C:1377:THR:CG2	2.44	1.00
1:A:1148:GLY:HA2	1:A:1150:TRP:CH2	1.97	1.00
1:A:1296:PHE:O	1:A:1299:LEU:N	1.94	1.00
1:A:1361:LEU:CD2	1:A:1365:TYR:HE2	1.66	1.00
1:B:1078:ASN:O	1:B:1102:CYS:CB	2.08	1.00
1:B:1408:ILE:O	1:B:1412:LEU:N	1.93	1.00
1:B:1411:TYR:HA	1:B:1415:LYS:CB	1.91	1.00
1:C:1244:ALA:HB2	1:C:1253:TRP:CH2	1.96	1.00
1:C:1261:VAL:HG22	1:C:1295:TYR:CE2	1.96	1.00
1:A:1108:TRP:CH2	1:A:1129:ILE:HG22	1.86	1.00
1:A:1244:ALA:HB2	1:A:1253:TRP:CH2	1.96	1.00
1:B:1358:TRP:CE3	1:B:1377:THR:CG2	2.44	1.00
1:C:1408:ILE:O	1:C:1412:LEU:N	1.94	1.00
1:C:1409:GLN:CA	1:C:1413:GLU:CG	2.30	1.00
1:C:1411:TYR:HA	1:C:1415:LYS:CB	1.91	1.00
1:C:1598:TYR:CE2	2:E:199:UNK:CB	2.44	1.00
1:A:1358:TRP:CZ2	1:A:1381:HIS:ND1	2.30	1.00
1:B:1429:ARG:O	1:B:1429:ARG:HG2	1.20	1.00
1:C:1079:THR:HG23	1:C:1105:PRO:HD3	1.42	1.00
2:F:119:ALA:O	2:F:123:MET:CG	2.08	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1085:LEU:HD13	1:A:1098:PHE:CE1	1.96	0.99
1:A:1358:TRP:CE3	1:A:1377:THR:CG2	2.44	0.99
1:B:1261:VAL:HG22	1:B:1295:TYR:CE2	1.96	0.99
1:A:1108:TRP:NE1	1:A:1132:ASP:OD1	1.93	0.99
1:A:1261:VAL:HG22	1:A:1295:TYR:CE2	1.96	0.99
1:A:1358:TRP:CD1	2:F:115:GLU:HG2	1.98	0.99
1:B:1591:ILE:HG23	1:B:1592:MET:H	1.25	0.99
1:C:1108:TRP:CH2	1:C:1129:ILE:HG22	1.86	0.99
1:B:1358:TRP:CZ2	1:B:1381:HIS:ND1	2.29	0.99
1:C:1162:LYS:HG3	1:C:1163:LYS:HZ2	0.85	0.99
1:A:1601:GLN:CB	1:B:1587:TRP:HH2	1.75	0.99
1:B:1085:LEU:HD13	1:B:1098:PHE:CE1	1.96	0.99
1:C:1148:GLY:HA2	1:C:1150:TRP:CH2	1.97	0.99
1:C:1358:TRP:HE3	1:C:1377:THR:HG23	1.26	0.99
1:B:1296:PHE:O	1:B:1299:LEU:N	1.94	0.99
1:B:1566:PHE:CE2	2:D:182:UNK:CB	2.46	0.99
1:C:1232:VAL:HG22	1:C:1233:HIS:H	1.26	0.99
1:A:1264:LYS:HE3	1:A:1268:LEU:CD1	1.74	0.99
1:A:1409:GLN:CG	1:A:1413:GLU:CG	2.30	0.99
1:B:1148:GLY:HA2	1:B:1150:TRP:CH2	1.97	0.99
1:B:1232:VAL:HG22	1:B:1233:HIS:H	1.26	0.99
1:C:1085:LEU:HD13	1:C:1098:PHE:CE1	1.96	0.99
1:C:1358:TRP:CZ2	1:C:1381:HIS:ND1	2.29	0.99
1:C:1598:TYR:HD2	2:E:199:UNK:N	1.53	0.99
1:B:1159:MET:CA	1:B:1163:LYS:HE2	1.93	0.99
1:B:1409:GLN:CA	1:B:1413:GLU:CG	2.30	0.99
1:C:1181:ASN:O	1:C:1185:GLU:CD	2.06	0.99
1:C:1159:MET:CA	1:C:1163:LYS:HE2	1.93	0.98
1:A:1456:GLN:O	1:A:1456:GLN:CG	1.94	0.98
1:B:1079:THR:HG23	1:B:1105:PRO:HD3	1.41	0.98
1:A:1591:ILE:O	1:A:1594:PHE:N	1.96	0.98
1:B:1181:ASN:O	1:B:1185:GLU:CD	2.06	0.98
1:C:1591:ILE:O	1:C:1594:PHE:N	1.96	0.98
1:B:1591:ILE:O	1:B:1594:PHE:N	1.96	0.98
1:C:1456:GLN:O	1:C:1456:GLN:HG2	1.58	0.98
1:A:1356:HIS:CG	2:F:112:ARG:NH2	1.81	0.98
1:A:1358:TRP:HE3	1:A:1377:THR:HG23	1.26	0.98
1:B:1108:TRP:CE3	1:B:1129:ILE:HD12	1.99	0.98
1:B:1292:ASP:C	2:D:97:GLN:OE1	2.05	0.98
1:B:1290:TYR:HB3	1:B:1299:LEU:HD22	1.45	0.98
1:A:1079:THR:HG22	1:A:1105:PRO:HG3	1.21	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1290:TYR:HB3	1:C:1299:LEU:HD22	1.45	0.98
1:C:1108:TRP:CZ3	1:C:1129:ILE:HG21	1.98	0.98
1:A:1181:ASN:O	1:A:1185:GLU:CD	2.06	0.97
1:A:1253:TRP:HE3	1:A:1276:ILE:HG21	1.17	0.97
1:A:1111:LEU:O	1:A:1111:LEU:HD22	1.64	0.97
1:C:1108:TRP:CE3	1:C:1129:ILE:HD12	1.99	0.97
1:A:1209:LYS:HB3	1:A:1230:THR:HG22	1.46	0.97
1:A:1159:MET:CA	1:A:1163:LYS:HE2	1.93	0.97
1:C:1111:LEU:O	1:C:1111:LEU:HD22	1.64	0.97
1:C:1301:THR:HA	1:C:1304:GLU:HG3	1.47	0.97
2:D:151:ILE:O	2:D:154:ARG:HB2	1.65	0.97
2:D:181:UNK:C	2:D:183:UNK:CB	2.41	0.97
2:F:151:ILE:O	2:F:154:ARG:HB2	1.65	0.97
1:A:1601:GLN:HG2	1:B:1587:TRP:HH2	1.18	0.97
1:B:1209:LYS:HB3	1:B:1230:THR:HG22	1.46	0.97
1:B:1408:ILE:CG2	1:B:1412:LEU:CB	2.43	0.97
2:E:108:GLU:OE2	2:E:109:GLN:HG2	1.62	0.97
1:A:1108:TRP:CZ3	1:A:1129:ILE:HG21	1.98	0.97
1:A:1079:THR:C	1:A:1105:PRO:HG3	1.90	0.96
1:A:1108:TRP:CE3	1:A:1129:ILE:HD12	1.99	0.96
1:C:1368:TYR:CD1	1:C:1370:GLU:HG2	2.00	0.96
2:F:195:UNK:C	2:F:197:UNK:CB	2.42	0.96
1:A:1591:ILE:HG23	1:A:1592:MET:H	1.25	0.96
1:C:1079:THR:C	1:C:1105:PRO:HG3	1.90	0.96
1:C:1591:ILE:HG23	1:C:1592:MET:H	1.25	0.96
1:A:1232:VAL:HG22	1:A:1233:HIS:H	1.26	0.96
1:B:1079:THR:C	1:B:1105:PRO:HG3	1.90	0.96
2:D:174:UNK:HA	2:D:177:UNK:N	1.80	0.96
1:A:1395:ILE:HG13	1:A:1404:TYR:CZ	2.01	0.96
1:B:1371:TYR:CD1	1:B:1394:ILE:CG2	2.33	0.96
2:F:162:GLN:CA	2:F:166:ALA:HB2	1.92	0.96
1:B:1368:TYR:CD1	1:B:1370:GLU:HG2	2.00	0.96
1:B:1602:VAL:HG11	2:D:204:UNK:O	1.66	0.96
2:E:151:ILE:O	2:E:154:ARG:HB2	1.65	0.96
1:A:1162:LYS:HG3	1:A:1163:LYS:HZ1	0.81	0.96
1:A:1301:THR:HA	1:A:1304:GLU:HG3	1.47	0.96
1:B:1279:HIS:CD2	1:B:1282:GLU:CB	2.49	0.96
1:C:1282:GLU:HG3	1:C:1283:LEU:H	1.29	0.96
1:C:1414:PHE:CD1	2:E:123:MET:HG3	2.00	0.96
1:B:1253:TRP:HE3	1:B:1276:ILE:HG21	1.17	0.96
1:B:1372:ASP:O	1:B:1376:ILE:HG13	1.65	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1408:ILE:CG2	1:C:1412:LEU:CB	2.43	0.96
1:C:1592:MET:SD	1:C:1593:ASP:N	2.39	0.95
1:A:1368:TYR:CD1	1:A:1370:GLU:HG2	2.00	0.95
1:A:1412:LEU:CD1	1:A:1419:LEU:CD2	2.45	0.95
1:B:1108:TRP:CZ3	1:B:1129:ILE:HG21	1.98	0.95
1:B:1111:LEU:O	1:B:1111:LEU:HD22	1.64	0.95
1:B:1395:ILE:HG13	1:B:1404:TYR:CZ	2.01	0.95
1:B:1301:THR:HA	1:B:1304:GLU:HG3	1.47	0.95
1:B:1371:TYR:HD1	1:B:1394:ILE:HG23	0.79	0.95
1:C:1221:VAL:HG13	1:C:1222:SER:H	1.12	0.95
1:A:1290:TYR:HB3	1:A:1299:LEU:HD22	1.45	0.95
1:A:1327:PHE:HZ	2:F:104:LYS:HG3	1.25	0.95
1:B:1412:LEU:HB2	1:B:1419:LEU:CD1	1.96	0.95
1:C:1371:TYR:HD1	1:C:1394:ILE:HG23	0.79	0.95
1:C:1408:ILE:CG2	1:C:1412:LEU:CD2	2.45	0.95
2:E:202:UNK:O	2:E:203:UNK:C	2.14	0.95
1:B:1412:LEU:CD1	1:B:1419:LEU:CD2	2.44	0.95
2:D:181:UNK:C	2:D:183:UNK:N	2.20	0.95
2:E:133:LYS:HA	2:E:133:LYS:NZ	1.82	0.95
1:A:1372:ASP:O	1:A:1376:ILE:HG13	1.65	0.95
1:C:1279:HIS:CD2	1:C:1282:GLU:CB	2.49	0.95
1:B:1111:LEU:HD11	1:B:1125:ILE:CG1	1.97	0.95
1:C:1412:LEU:CD1	1:C:1419:LEU:CD2	2.44	0.95
2:D:112:ARG:C	2:D:112:ARG:CD	2.38	0.95
1:A:1282:GLU:HG3	1:A:1283:LEU:H	1.29	0.95
1:C:1405:TYR:CD2	1:C:1434:ARG:NH1	2.35	0.95
1:A:1408:ILE:CG2	1:A:1412:LEU:CB	2.43	0.95
1:C:1472:ILE:HA	1:C:1507:PHE:HE1	1.31	0.95
1:A:1279:HIS:CD2	1:A:1282:GLU:CB	2.49	0.94
1:A:1371:TYR:HD1	1:A:1394:ILE:HG23	0.79	0.94
1:A:1408:ILE:CG2	1:A:1412:LEU:CD2	2.45	0.94
1:A:1584:GLU:OE2	2:E:199:UNK:CB	2.15	0.94
1:C:1161:ARG:NH1	1:C:1192:GLY:O	1.99	0.94
2:E:198:UNK:O	2:E:202:UNK:CB	2.14	0.94
1:B:1085:LEU:HD23	1:B:1085:LEU:H	1.31	0.94
1:B:1161:ARG:NH1	1:B:1192:GLY:O	1.99	0.94
1:C:1159:MET:O	1:C:1163:LYS:HD3	1.67	0.94
1:C:1395:ILE:HG13	1:C:1404:TYR:CZ	2.01	0.94
2:F:195:UNK:C	2:F:197:UNK:N	2.19	0.94
1:A:1111:LEU:HD11	1:A:1125:ILE:CG1	1.97	0.94
1:A:1382:PRO:CB	2:F:123:MET:HE1	1.86	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1293:ARG:CA	2:D:97:GLN:OE1	2.15	0.94
1:B:1504:LEU:HD21	2:D:152:ASN:CB	1.94	0.94
1:C:1170:GLU:CD	1:C:1195:ASN:O	2.11	0.94
2:F:133:LYS:HA	2:F:133:LYS:NZ	1.82	0.94
1:A:1472:ILE:HA	1:A:1507:PHE:HE1	1.30	0.94
1:A:1592:MET:SD	1:A:1593:ASP:N	2.39	0.94
1:B:1504:LEU:HG	2:D:149:ASN:CA	1.97	0.94
1:C:1209:LYS:HB3	1:C:1230:THR:HG22	1.46	0.94
1:A:1161:ARG:NH1	1:A:1192:GLY:O	1.99	0.94
1:A:1412:LEU:HB2	1:A:1419:LEU:CD1	1.96	0.94
1:B:1592:MET:SD	1:B:1593:ASP:N	2.39	0.94
2:E:104:LYS:O	2:E:108:GLU:HG2	1.66	0.94
1:A:1159:MET:O	1:A:1163:LYS:HD3	1.67	0.94
1:B:1408:ILE:CG2	1:B:1412:LEU:CD2	2.45	0.94
1:C:1372:ASP:O	1:C:1376:ILE:HG13	1.65	0.94
1:C:1592:MET:CE	1:C:1593:ASP:N	2.31	0.94
2:D:185:UNK:HA	2:D:189:UNK:O	1.68	0.94
1:C:1412:LEU:HB2	1:C:1419:LEU:CD1	1.96	0.94
1:B:1221:VAL:CG1	1:B:1222:SER:N	2.30	0.94
1:B:1282:GLU:HG3	1:B:1283:LEU:H	1.30	0.94
1:B:1504:LEU:CD2	2:D:149:ASN:O	2.15	0.94
2:D:133:LYS:HA	2:D:133:LYS:NZ	1.82	0.94
1:A:1262:ASP:HB3	1:A:1293:ARG:CZ	1.98	0.93
1:A:1405:TYR:CD2	1:A:1434:ARG:NH1	2.35	0.93
1:C:1450:PRO:HA	1:C:1453:ARG:HG2	1.50	0.93
2:D:174:UNK:CA	2:D:177:UNK:N	2.31	0.93
2:E:189:UNK:HA	2:E:195:UNK:N	1.83	0.93
1:B:1159:MET:O	1:B:1163:LYS:HD3	1.67	0.93
1:C:1282:GLU:O	1:C:1283:LEU:HB2	1.66	0.93
1:A:1170:GLU:CD	1:A:1195:ASN:O	2.11	0.93
1:A:1362:VAL:HG22	1:A:1377:THR:CB	1.98	0.93
1:B:1332:MET:HE2	1:B:1357:LEU:HD13	1.51	0.93
1:B:1414:PHE:HA	2:D:130:LYS:HD2	0.96	0.93
1:A:1221:VAL:CG1	1:A:1222:SER:N	2.30	0.93
1:A:1333:ARG:HB2	1:A:1360:GLU:OE2	1.69	0.93
1:A:1444:GLN:HE22	2:F:131:ALA:HA	1.32	0.93
1:B:1592:MET:CE	1:B:1593:ASP:N	2.31	0.93
1:C:1085:LEU:HD23	1:C:1085:LEU:H	1.31	0.93
1:B:1395:ILE:HG12	1:B:1404:TYR:CE2	2.02	0.93
1:A:1282:GLU:O	1:A:1283:LEU:HB2	1.66	0.93
1:B:1450:PRO:HA	1:B:1453:ARG:HG2	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1362:VAL:HG22	1:C:1377:THR:CB	1.98	0.93
1:A:1145:ASN:O	1:A:1150:TRP:CZ2	2.22	0.93
1:A:1332:MET:HE2	1:A:1357:LEU:HD13	1.51	0.93
1:B:1262:ASP:HB3	1:B:1293:ARG:CZ	1.99	0.93
1:B:1358:TRP:HE3	1:B:1377:THR:HG23	1.26	0.93
1:B:1362:VAL:HG22	1:B:1377:THR:CB	1.97	0.93
1:A:1085:LEU:HD23	1:A:1085:LEU:H	1.31	0.93
1:A:1408:ILE:CG2	1:A:1412:LEU:HB3	1.98	0.93
1:A:1415:LYS:HA	2:F:130:LYS:HD3	1.47	0.93
1:B:1170:GLU:CD	1:B:1195:ASN:O	2.11	0.93
1:C:1079:THR:CG2	1:C:1105:PRO:CB	2.39	0.93
1:C:1145:ASN:O	1:C:1150:TRP:CZ2	2.22	0.93
1:C:1290:TYR:HD2	1:C:1299:LEU:HD13	1.02	0.93
2:F:133:LYS:HA	2:F:133:LYS:HZ1	1.32	0.93
1:A:1563:ARG:HH22	2:F:182:UNK:H	0.93	0.92
1:B:1079:THR:HG23	1:B:1105:PRO:CD	1.99	0.92
1:B:1405:TYR:CD2	1:B:1434:ARG:NH1	2.35	0.92
1:B:1472:ILE:HA	1:B:1507:PHE:HE1	1.30	0.92
1:B:1475:GLU:OE1	2:D:145:GLN:OE1	1.57	0.92
1:C:1111:LEU:HD11	1:C:1125:ILE:CG1	1.97	0.92
1:A:1109:SER:CB	1:A:1135:SER:HB3	1.99	0.92
1:A:1303:LEU:HD12	1:A:1320:LEU:HD13	1.52	0.92
1:B:1600:ILE:HA	1:B:1603:MET:HE3	1.51	0.92
1:C:1395:ILE:HG12	1:C:1404:TYR:CE2	2.02	0.92
1:C:1600:ILE:HA	1:C:1603:MET:HE3	1.51	0.92
1:A:1256:VAL:O	1:A:1260:CYS:SG	2.27	0.92
1:A:1592:MET:CE	1:A:1593:ASP:N	2.31	0.92
1:B:1188:GLU:HA	1:B:1191:ASN:ND2	1.85	0.92
1:C:1244:ALA:HB3	1:C:1275:HIS:ND1	1.83	0.92
1:C:1408:ILE:CG2	1:C:1412:LEU:HB3	1.98	0.92
1:C:1427:SER:CB	1:C:1428:PRO:CD	2.42	0.92
2:D:174:UNK:N	2:D:175:UNK:CB	2.32	0.92
1:A:1450:PRO:HA	1:A:1453:ARG:HG2	1.51	0.92
1:A:1601:GLN:HG2	1:B:1587:TRP:CZ2	2.03	0.92
1:A:1620:ARG:HH11	1:A:1620:ARG:CG	1.82	0.92
1:B:1282:GLU:O	1:B:1283:LEU:HB2	1.66	0.92
1:C:1253:TRP:HZ3	1:C:1276:ILE:HG22	1.30	0.92
1:C:1332:MET:HE2	1:C:1357:LEU:HD13	1.51	0.92
1:C:1333:ARG:HB2	1:C:1360:GLU:OE2	1.69	0.92
2:D:112:ARG:O	2:D:113:LEU:O	1.86	0.92
2:F:162:GLN:CA	2:F:166:ALA:HB3	1.95	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1600:ILE:HA	1:A:1603:MET:HE3	1.52	0.92
1:B:1303:LEU:HD12	1:B:1320:LEU:HD13	1.52	0.92
1:C:1221:VAL:CG1	1:C:1222:SER:N	2.30	0.92
1:A:1620:ARG:HB2	1:A:1620:ARG:NH1	1.85	0.92
1:B:1145:ASN:O	1:B:1150:TRP:CZ2	2.22	0.92
1:B:1232:VAL:C	1:B:1234:LEU:H	1.78	0.92
1:B:1244:ALA:HB3	1:B:1275:HIS:ND1	1.83	0.92
1:C:1232:VAL:C	1:C:1234:LEU:H	1.78	0.92
1:A:1079:THR:HG23	1:A:1105:PRO:CD	1.99	0.92
1:B:1292:ASP:C	2:D:97:GLN:CA	2.41	0.92
1:B:1408:ILE:CG2	1:B:1412:LEU:HB3	1.98	0.92
1:C:1188:GLU:HA	1:C:1191:ASN:ND2	1.85	0.92
1:A:1395:ILE:HG12	1:A:1404:TYR:CE2	2.02	0.92
1:A:1585:THR:O	1:A:1589:HIS:CB	2.18	0.92
1:B:1620:ARG:HH11	1:B:1620:ARG:CG	1.81	0.92
1:B:1411:TYR:O	1:B:1415:LYS:CA	2.18	0.92
1:C:1592:MET:SD	1:C:1592:MET:C	2.53	0.92
1:C:1079:THR:HG23	1:C:1105:PRO:CD	1.99	0.91
1:C:1264:LYS:HE2	1:C:1268:LEU:HB2	1.52	0.91
1:B:1444:GLN:HG2	2:D:134:ASP:CB	1.99	0.91
1:C:1596:MET:N	1:C:1597:PRO:HD2	1.85	0.91
1:C:1620:ARG:HB2	1:C:1620:ARG:NH1	1.85	0.91
1:C:1411:TYR:O	1:C:1415:LYS:CA	2.18	0.91
2:D:174:UNK:CB	2:D:177:UNK:N	2.33	0.91
1:A:1411:TYR:O	1:A:1415:LYS:CA	2.18	0.91
1:C:1262:ASP:HB3	1:C:1293:ARG:CZ	1.99	0.91
2:E:98:GLU:HA	2:E:101:SER:HB3	1.52	0.91
1:C:1109:SER:CB	1:C:1135:SER:HB3	1.99	0.91
1:C:1256:VAL:O	1:C:1260:CYS:SG	2.27	0.91
1:C:1409:GLN:CB	1:C:1413:GLU:HG3	2.00	0.91
2:D:174:UNK:HA	2:D:175:UNK:C	2.00	0.91
2:E:126:GLU:HG3	2:E:130:LYS:HZ1	1.36	0.91
1:A:1188:GLU:HA	1:A:1191:ASN:ND2	1.84	0.91
1:A:1356:HIS:NE2	2:F:112:ARG:HG2	1.83	0.91
1:B:1409:GLN:CB	1:B:1413:GLU:HG3	2.00	0.91
1:A:1279:HIS:CB	1:A:1282:GLU:HB3	2.01	0.91
1:B:1256:VAL:O	1:B:1260:CYS:SG	2.27	0.91
1:B:1279:HIS:CB	1:B:1282:GLU:HB3	2.01	0.91
1:C:1465:GLU:O	1:C:1465:GLU:CD	2.14	0.91
1:C:1521:TRP:HE3	1:C:1522:LYS:HD2	1.31	0.91
1:A:1253:TRP:HZ3	1:A:1276:ILE:HG22	1.30	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1109:SER:CB	1:B:1135:SER:HB3	1.99	0.91
1:B:1224:PHE:O	1:B:1227:LEU:HB3	1.71	0.91
1:C:1391:PHE:CG	1:C:1411:TYR:OH	2.22	0.91
1:A:1244:ALA:HB3	1:A:1275:HIS:ND1	1.83	0.91
1:A:1409:GLN:CB	1:A:1413:GLU:HG3	2.00	0.91
1:A:1592:MET:SD	1:A:1592:MET:C	2.53	0.91
1:B:1585:THR:O	1:B:1589:HIS:CB	2.18	0.91
1:A:1465:GLU:O	1:A:1465:GLU:CD	2.15	0.90
1:C:1253:TRP:HE3	1:C:1276:ILE:HG21	1.17	0.90
1:C:1620:ARG:HH11	1:C:1620:ARG:CG	1.81	0.90
1:B:1391:PHE:CG	1:B:1411:TYR:OH	2.22	0.90
1:C:1166:GLU:HG3	1:C:1168:TYR:CE1	2.06	0.90
1:C:1371:TYR:CD1	1:C:1394:ILE:CG2	2.33	0.90
1:B:1620:ARG:HB2	1:B:1620:ARG:NH1	1.85	0.90
1:C:1279:HIS:CB	1:C:1282:GLU:HB3	2.01	0.90
1:C:1412:LEU:HA	1:C:1419:LEU:HD22	1.53	0.90
1:A:1264:LYS:HE2	1:A:1268:LEU:HB2	1.52	0.90
1:B:1166:GLU:HG3	1:B:1168:TYR:CE1	2.06	0.90
1:B:1465:GLU:O	1:B:1465:GLU:CD	2.14	0.90
1:B:1504:LEU:HG	2:D:149:ASN:C	1.97	0.90
1:B:1592:MET:SD	1:B:1592:MET:C	2.53	0.90
1:C:1585:THR:O	1:C:1589:HIS:CB	2.18	0.90
1:A:1166:GLU:HG3	1:A:1168:TYR:CE1	2.06	0.90
1:A:1224:PHE:O	1:A:1227:LEU:HB3	1.71	0.90
1:A:1505:ILE:HD11	2:F:153:ASN:HD22	1.14	0.90
1:C:1492:ASN:O	1:C:1493:ILE:HG12	1.72	0.90
1:B:1412:LEU:HB2	1:B:1419:LEU:HD11	1.53	0.90
1:B:1492:ASN:O	1:B:1493:ILE:HG12	1.72	0.90
1:A:1492:ASN:O	1:A:1493:ILE:HG12	1.72	0.90
1:A:1566:PHE:CZ	2:F:180:UNK:CB	2.55	0.90
1:B:1290:TYR:HD2	1:B:1299:LEU:CD1	1.85	0.90
1:B:1333:ARG:HB2	1:B:1360:GLU:OE2	1.69	0.90
1:B:1154:VAL:CG2	1:B:1180:THR:HG21	2.02	0.90
1:C:1145:ASN:HD22	1:C:1150:TRP:NE1	1.70	0.90
1:C:1224:PHE:O	1:C:1227:LEU:HB3	1.71	0.90
1:C:1566:PHE:HZ	2:E:178:UNK:HA	1.37	0.90
1:C:1602:VAL:CG1	2:E:202:UNK:O	2.19	0.90
1:A:1391:PHE:CG	1:A:1411:TYR:OH	2.22	0.90
2:E:202:UNK:C	2:E:203:UNK:C	2.50	0.90
1:B:1412:LEU:HA	1:B:1419:LEU:HD22	1.54	0.90
1:C:1598:TYR:CD2	2:E:198:UNK:CB	2.55	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1154:VAL:CG2	1:A:1180:THR:HG21	2.02	0.89
1:A:1290:TYR:HD2	1:A:1299:LEU:CD1	1.85	0.89
1:B:1218:TYR:HA	1:B:1221:VAL:HG12	1.54	0.89
1:C:1592:MET:HE2	1:C:1593:ASP:N	1.86	0.89
1:B:1592:MET:HE2	1:B:1593:ASP:N	1.86	0.89
1:A:1592:MET:HE2	1:A:1593:ASP:N	1.86	0.89
1:B:1504:LEU:CG	2:D:149:ASN:O	2.19	0.89
1:C:1409:GLN:CG	1:C:1413:GLU:CG	2.30	0.89
1:B:1596:MET:N	1:B:1597:PRO:HD2	1.86	0.89
1:C:1253:TRP:O	1:C:1289:TYR:HE2	1.55	0.89
1:C:1504:LEU:HD21	2:E:149:ASN:ND2	1.86	0.89
1:B:1264:LYS:HE2	1:B:1268:LEU:HB2	1.52	0.89
1:B:1333:ARG:HB2	1:B:1360:GLU:CG	2.03	0.89
1:B:1425:VAL:HG23	1:B:1426:LEU:H	1.37	0.89
1:C:1602:VAL:HG22	2:E:203:UNK:CA	2.01	0.89
2:E:114:GLN:HG3	2:E:115:GLU:H	0.73	0.89
1:A:1587:TRP:CH2	1:C:1601:GLN:HG2	2.06	0.89
1:C:1130:LYS:CD	1:C:1156:TYR:CE1	2.55	0.89
1:C:1412:LEU:HB2	1:C:1419:LEU:HD11	1.53	0.89
1:A:1333:ARG:HB2	1:A:1360:GLU:CG	2.03	0.89
1:C:1412:LEU:HD13	1:C:1419:LEU:CD2	2.01	0.89
1:C:1584:GLU:HG3	1:C:1587:TRP:CE3	2.07	0.89
1:A:1145:ASN:HD22	1:A:1150:TRP:NE1	1.70	0.89
1:A:1411:TYR:O	1:A:1415:LYS:CB	2.20	0.89
1:A:1412:LEU:HB2	1:A:1419:LEU:HD11	1.53	0.89
1:A:1412:LEU:HA	1:A:1419:LEU:HD22	1.53	0.89
1:B:1253:TRP:HZ3	1:B:1276:ILE:HG22	1.30	0.89
1:B:1408:ILE:CG2	1:B:1412:LEU:HD23	2.03	0.89
1:C:1492:ASN:O	1:C:1493:ILE:CD1	2.21	0.89
1:B:1104:GLU:HB2	1:B:1108:TRP:HZ2	1.38	0.89
1:B:1521:TRP:HE3	1:B:1522:LYS:HD2	1.31	0.89
1:B:1584:GLU:HG3	1:B:1587:TRP:CE3	2.07	0.89
1:B:1586:ALA:HA	1:B:1590:ASN:OD1	1.73	0.89
2:D:112:ARG:O	2:D:112:ARG:CD	2.21	0.89
1:A:1161:ARG:NE	1:A:1165:ARG:HD2	1.89	0.88
1:A:1232:VAL:C	1:A:1234:LEU:H	1.78	0.88
1:A:1414:PHE:CD2	2:F:127:TRP:CE3	2.60	0.88
1:A:1584:GLU:HG3	1:A:1587:TRP:CE3	2.07	0.88
1:C:1598:TYR:HE2	2:E:199:UNK:N	1.68	0.88
2:F:198:UNK:HA	2:F:201:UNK:CB	2.01	0.88
1:C:1411:TYR:O	1:C:1415:LYS:CB	2.20	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1505:ILE:HA	1:C:1508:ARG:HB2	1.55	0.88
1:A:1408:ILE:CG2	1:A:1412:LEU:HD23	2.03	0.88
1:A:1597:PRO:HG3	1:A:1600:ILE:HD12	1.54	0.88
1:A:1598:TYR:OH	1:B:1588:ARG:HD2	1.72	0.88
1:C:1333:ARG:HB2	1:C:1360:GLU:CG	2.03	0.88
1:C:1425:VAL:HG23	1:C:1426:LEU:H	1.37	0.88
1:A:1521:TRP:HE3	1:A:1522:LYS:HD2	1.31	0.88
1:B:1145:ASN:HD22	1:B:1150:TRP:NE1	1.70	0.88
1:B:1509:ARG:NH1	2:D:166:ALA:N	2.20	0.88
1:C:1597:PRO:HG3	1:C:1600:ILE:HD12	1.54	0.88
1:A:1586:ALA:HA	1:A:1590:ASN:OD1	1.73	0.88
1:B:1492:ASN:O	1:B:1493:ILE:CD1	2.21	0.88
1:C:1159:MET:HA	1:C:1163:LYS:CE	2.03	0.88
2:D:155:ILE:HG12	2:D:161:TYR:CB	2.02	0.88
1:A:1159:MET:HA	1:A:1163:LYS:CE	2.03	0.88
1:A:1504:LEU:CD1	2:F:149:ASN:O	2.21	0.88
1:A:1521:TRP:HZ3	1:A:1522:LYS:HZ2	0.89	0.88
1:B:1161:ARG:NE	1:B:1165:ARG:HD2	1.88	0.88
1:B:1411:TYR:O	1:B:1415:LYS:CB	2.20	0.88
1:A:1414:PHE:CD2	2:F:127:TRP:CD2	2.61	0.88
1:A:1409:GLN:CB	1:A:1413:GLU:CG	2.52	0.88
1:B:1159:MET:HA	1:B:1163:LYS:CE	2.03	0.88
1:B:1597:PRO:HG3	1:B:1600:ILE:HD12	1.54	0.88
1:C:1161:ARG:NE	1:C:1165:ARG:HD2	1.88	0.88
1:C:1218:TYR:HA	1:C:1221:VAL:HG12	1.54	0.88
1:C:1303:LEU:HD12	1:C:1320:LEU:HD13	1.52	0.88
1:B:1505:ILE:HA	1:B:1508:ARG:HB2	1.55	0.88
1:C:1104:GLU:HB2	1:C:1108:TRP:CH2	2.09	0.88
1:A:1472:ILE:HG21	1:A:1498:ARG:HE	1.39	0.87
1:B:1444:GLN:CD	2:D:134:ASP:OD2	2.17	0.87
1:A:1596:MET:N	1:A:1597:PRO:HD2	1.86	0.87
1:C:1409:GLN:CB	1:C:1413:GLU:CG	2.52	0.87
2:F:114:GLN:HG3	2:F:115:GLU:H	0.72	0.87
1:A:1082:VAL:HG13	1:A:1083:GLN:H	1.39	0.87
1:B:1472:ILE:HG21	1:B:1498:ARG:HE	1.39	0.87
1:A:1104:GLU:HB2	1:A:1108:TRP:HZ2	1.38	0.87
1:A:1492:ASN:O	1:A:1493:ILE:CD1	2.21	0.87
1:A:1580:ASP:OD1	1:C:1605:GLU:CB	2.22	0.87
1:B:1264:LYS:HE2	1:B:1268:LEU:CB	2.05	0.87
1:B:1444:GLN:CG	2:D:134:ASP:CB	2.52	0.87
1:A:1264:LYS:HE2	1:A:1268:LEU:CB	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1412:LEU:HD13	1:A:1419:LEU:CD2	2.01	0.87
1:C:1259:ALA:C	1:C:1293:ARG:NH1	2.32	0.87
1:C:1264:LYS:HE3	1:C:1268:LEU:HD12	0.88	0.87
1:C:1586:ALA:HA	1:C:1590:ASN:OD1	1.73	0.87
1:A:1264:LYS:HE3	1:A:1268:LEU:HD12	0.88	0.87
1:B:1165:ARG:HD2	1:B:1170:GLU:OE1	1.75	0.87
1:B:1361:LEU:HD23	1:B:1365:TYR:CE2	2.10	0.87
1:C:1154:VAL:CG2	1:C:1180:THR:HG21	2.02	0.87
1:C:1290:TYR:HD2	1:C:1299:LEU:CD1	1.85	0.87
1:C:1408:ILE:CG2	1:C:1412:LEU:HD23	2.03	0.87
1:C:1591:ILE:HG23	1:C:1592:MET:N	1.89	0.87
2:D:185:UNK:HA	2:D:189:UNK:C	2.03	0.87
1:A:1159:MET:CA	1:A:1163:LYS:CE	2.52	0.87
1:A:1602:VAL:CG1	2:F:203:UNK:O	2.22	0.87
1:B:1409:GLN:CG	1:B:1413:GLU:CG	2.30	0.87
1:B:1409:GLN:CB	1:B:1413:GLU:CG	2.52	0.87
1:C:1598:TYR:CD2	2:E:199:UNK:CA	2.56	0.87
1:A:1408:ILE:HG21	1:A:1412:LEU:CD2	2.05	0.87
1:B:1293:ARG:HA	2:D:96:THR:CG2	2.04	0.87
1:B:1508:ARG:NH2	1:B:1530:LYS:HD3	1.90	0.87
1:C:1361:LEU:HD23	1:C:1365:TYR:CE2	2.09	0.87
1:C:1508:ARG:NH2	1:C:1530:LYS:HD3	1.90	0.87
1:B:1159:MET:CA	1:B:1163:LYS:CE	2.52	0.87
1:B:1259:ALA:C	1:B:1293:ARG:NH1	2.32	0.87
1:C:1472:ILE:HG21	1:C:1498:ARG:HE	1.39	0.87
1:A:1104:GLU:HB2	1:A:1108:TRP:CH2	2.08	0.86
1:A:1165:ARG:HD2	1:A:1170:GLU:OE1	1.75	0.86
1:A:1356:HIS:HB3	2:F:112:ARG:HH22	1.39	0.86
1:A:1357:LEU:HD23	2:F:111:LYS:CE	2.00	0.86
1:A:1605:GLU:CD	1:B:1580:ASP:OD2	2.18	0.86
1:B:1264:LYS:HE3	1:B:1268:LEU:HD12	0.88	0.86
1:A:1345:ILE:H	1:A:1346:PRO:HD2	1.40	0.86
1:A:1629:THR:O	1:A:1629:THR:HG22	1.75	0.86
1:B:1078:ASN:HD22	1:B:1101:ARG:CB	1.88	0.86
1:B:1104:GLU:HB2	1:B:1108:TRP:CH2	2.09	0.86
1:B:1591:ILE:HG23	1:B:1592:MET:N	1.89	0.86
1:C:1082:VAL:HG13	1:C:1083:GLN:H	1.39	0.86
2:D:114:GLN:HG3	2:D:115:GLU:H	0.72	0.86
2:E:126:GLU:HG3	2:E:130:LYS:NZ	1.90	0.86
1:A:1361:LEU:HD23	1:A:1365:TYR:CE2	2.10	0.86
1:B:1253:TRP:O	1:B:1289:TYR:HE2	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1130:LYS:CD	1:A:1156:TYR:CE1	2.55	0.86
1:A:1279:HIS:CD2	1:A:1282:GLU:C	2.54	0.86
1:B:1082:VAL:HG13	1:B:1083:GLN:H	1.39	0.86
1:C:1521:TRP:HZ3	1:C:1522:LYS:HZ2	0.88	0.86
1:A:1259:ALA:C	1:A:1293:ARG:NH1	2.32	0.86
1:A:1260:CYS:O	1:A:1263:GLY:O	1.93	0.86
1:B:1109:SER:HB2	1:B:1135:SER:CB	2.06	0.86
1:C:1252:THR:O	1:C:1256:VAL:HG23	1.75	0.86
1:C:1279:HIS:CD2	1:C:1282:GLU:C	2.54	0.86
1:C:1492:ASN:O	1:C:1493:ILE:CG1	2.24	0.86
1:A:1109:SER:HB2	1:A:1135:SER:CB	2.06	0.86
1:B:1629:THR:O	1:B:1629:THR:HG22	1.75	0.86
1:C:1317:PHE:H	1:C:1317:PHE:HD2	1.24	0.86
1:C:1598:TYR:CZ	2:E:199:UNK:CB	2.58	0.86
1:A:1252:THR:O	1:A:1256:VAL:HG23	1.75	0.86
1:A:1401:VAL:HG22	1:A:1429:ARG:HE	1.40	0.86
1:B:1252:THR:O	1:B:1256:VAL:HG23	1.75	0.86
1:B:1279:HIS:CD2	1:B:1282:GLU:C	2.54	0.86
1:C:1260:CYS:O	1:C:1263:GLY:O	1.93	0.86
2:F:126:GLU:HG3	2:F:130:LYS:NZ	1.90	0.86
1:B:1130:LYS:CD	1:B:1156:TYR:CE1	2.55	0.86
1:B:1292:ASP:CA	2:D:97:GLN:C	2.47	0.86
1:B:1401:VAL:HG22	1:B:1429:ARG:HE	1.41	0.86
1:C:1159:MET:CA	1:C:1163:LYS:CE	2.52	0.86
1:C:1165:ARG:HD2	1:C:1170:GLU:OE1	1.75	0.86
1:A:1425:VAL:HG23	1:A:1426:LEU:H	1.37	0.86
1:A:1508:ARG:NH2	1:A:1530:LYS:HD3	1.90	0.86
1:B:1408:ILE:HG21	1:B:1412:LEU:CD2	2.05	0.86
1:C:1264:LYS:HE2	1:C:1268:LEU:CB	2.05	0.86
1:C:1345:ILE:H	1:C:1346:PRO:HD2	1.40	0.86
1:C:1598:TYR:CE2	2:E:199:UNK:CA	2.59	0.86
1:A:1218:TYR:HA	1:A:1221:VAL:HG12	1.54	0.85
1:A:1416:PRO:HD3	2:F:130:LYS:HG3	1.03	0.85
1:C:1401:VAL:HG22	1:C:1429:ARG:HE	1.40	0.85
1:C:1586:ALA:CB	1:C:1590:ASN:HD21	1.88	0.85
1:A:1079:THR:HA	1:A:1102:CYS:HB3	1.58	0.85
1:A:1591:ILE:HG23	1:A:1592:MET:N	1.89	0.85
1:B:1166:GLU:HG2	1:B:1167:SER:N	1.91	0.85
1:B:1292:ASP:HB3	2:D:97:GLN:CG	2.06	0.85
1:B:1472:ILE:HB	1:B:1498:ARG:HH21	1.41	0.85
1:C:1274:LEU:H	1:C:1274:LEU:HD12	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1274:LEU:H	1:A:1274:LEU:HD12	1.41	0.85
1:A:1414:PHE:HB2	2:F:130:LYS:HZ2	1.41	0.85
1:B:1269:ALA:HB3	1:B:1295:TYR:OH	1.76	0.85
1:B:1345:ILE:H	1:B:1346:PRO:HD2	1.40	0.85
2:D:126:GLU:HG3	2:D:130:LYS:NZ	1.90	0.85
2:D:142:GLN:O	2:D:146:VAL:HG13	1.76	0.85
2:D:148:LYS:O	2:D:151:ILE:HG12	1.77	0.85
2:D:174:UNK:CA	2:D:176:UNK:N	2.39	0.85
1:A:1078:ASN:HD22	1:A:1101:ARG:CB	1.88	0.85
1:A:1419:LEU:O	1:A:1422:LEU:CB	2.24	0.85
1:A:1605:GLU:CB	1:B:1580:ASP:CG	2.44	0.85
1:A:1439:PHE:O	1:A:1442:VAL:HB	1.77	0.85
1:C:1269:ALA:HB3	1:C:1295:TYR:OH	1.76	0.85
1:A:1472:ILE:HB	1:A:1498:ARG:HH21	1.41	0.85
1:A:1505:ILE:HA	1:A:1508:ARG:HB2	1.55	0.85
1:B:1362:VAL:HG22	1:B:1377:THR:HB	1.56	0.85
1:B:1492:ASN:O	1:B:1493:ILE:CG1	2.24	0.85
1:A:1290:TYR:HD2	1:A:1299:LEU:HD13	1.02	0.85
1:A:1474:GLU:O	2:F:145:GLN:CB	2.24	0.85
1:C:1078:ASN:HD22	1:C:1101:ARG:CB	1.89	0.85
1:C:1362:VAL:HG22	1:C:1377:THR:HB	1.56	0.85
1:C:1439:PHE:O	1:C:1442:VAL:HB	1.76	0.85
2:D:180:UNK:O	2:D:183:UNK:CB	2.25	0.85
2:F:194:UNK:O	2:F:197:UNK:CB	2.24	0.85
1:A:1166:GLU:HG2	1:A:1167:SER:N	1.91	0.85
1:A:1282:GLU:HG3	1:A:1283:LEU:N	1.92	0.85
1:A:1475:GLU:HG2	2:F:149:ASN:OD1	1.74	0.85
1:C:1419:LEU:O	1:C:1422:LEU:CB	2.24	0.85
2:F:142:GLN:O	2:F:146:VAL:HG13	1.76	0.85
1:A:1492:ASN:O	1:A:1493:ILE:CG1	2.24	0.85
1:B:1079:THR:HA	1:B:1102:CYS:HB3	1.58	0.85
1:B:1586:ALA:CB	1:B:1590:ASN:HD21	1.88	0.85
2:F:148:LYS:O	2:F:151:ILE:HG12	1.76	0.85
1:B:1166:GLU:HG3	1:B:1168:TYR:CZ	2.12	0.84
1:B:1292:ASP:CB	2:D:97:GLN:HB3	1.95	0.84
1:B:1358:TRP:HH2	1:B:1381:HIS:CE1	1.95	0.84
1:B:1521:TRP:HZ3	1:B:1522:LYS:NZ	1.74	0.84
2:E:148:LYS:O	2:E:151:ILE:HG12	1.77	0.84
1:A:1294:GLY:CA	2:F:100:GLU:O	2.25	0.84
1:A:1332:MET:SD	1:A:1360:GLU:HG2	2.17	0.84
1:A:1521:TRP:HZ3	1:A:1522:LYS:NZ	1.74	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1412:LEU:HD13	1:B:1419:LEU:CD2	2.01	0.84
1:C:1079:THR:HA	1:C:1102:CYS:HB3	1.58	0.84
1:A:1430:LEU:HG	1:A:1432:HIS:H	1.42	0.84
1:C:1166:GLU:HG3	1:C:1168:TYR:CZ	2.12	0.84
1:A:1166:GLU:HG3	1:A:1168:TYR:CZ	2.12	0.84
1:A:1598:TYR:OH	1:B:1588:ARG:CD	2.25	0.84
1:B:1332:MET:SD	1:B:1360:GLU:HG2	2.17	0.84
1:C:1629:THR:HG22	1:C:1629:THR:O	1.75	0.84
1:A:1269:ALA:HB3	1:A:1295:TYR:OH	1.76	0.84
1:B:1260:CYS:O	1:B:1263:GLY:O	1.93	0.84
1:B:1282:GLU:HG3	1:B:1283:LEU:N	1.92	0.84
1:C:1192:GLY:N	1:C:1193:PRO:HD3	1.92	0.84
1:A:1586:ALA:CB	1:A:1590:ASN:HD21	1.88	0.84
1:B:1145:ASN:ND2	1:B:1150:TRP:NE1	2.24	0.84
1:B:1274:LEU:H	1:B:1274:LEU:HD12	1.41	0.84
1:B:1439:PHE:O	1:B:1442:VAL:HB	1.76	0.84
1:C:1145:ASN:ND2	1:C:1150:TRP:NE1	2.24	0.84
2:E:142:GLN:O	2:E:146:VAL:HG13	1.77	0.84
1:A:1145:ASN:ND2	1:A:1150:TRP:NE1	2.24	0.84
1:A:1161:ARG:HH21	1:A:1170:GLU:CG	1.91	0.84
1:A:1448:VAL:HB	1:A:1451:TYR:CD2	2.13	0.84
1:B:1401:VAL:HG22	1:B:1429:ARG:NE	1.93	0.84
1:B:1521:TRP:HZ3	1:B:1522:LYS:HZ2	0.88	0.84
1:C:1166:GLU:HG2	1:C:1167:SER:N	1.91	0.84
1:C:1358:TRP:CZ3	1:C:1381:HIS:CE1	2.64	0.84
1:A:1264:LYS:HE2	1:A:1268:LEU:CG	2.08	0.84
1:B:1412:LEU:HD12	1:B:1419:LEU:CD2	2.08	0.84
1:C:1588:ARG:CD	2:D:197:UNK:CB	2.55	0.84
1:A:1253:TRP:C	1:A:1255:GLU:H	1.85	0.84
1:A:1412:LEU:HD12	1:A:1419:LEU:CD2	2.08	0.84
1:B:1159:MET:O	1:B:1163:LYS:HE2	1.76	0.84
1:C:1161:ARG:HH21	1:C:1170:GLU:CG	1.91	0.84
1:B:1192:GLY:N	1:B:1193:PRO:HD3	1.92	0.84
1:A:1181:ASN:O	1:A:1181:ASN:OD1	1.96	0.83
1:A:1362:VAL:HG22	1:A:1377:THR:HB	1.56	0.83
1:A:1387:LYS:HB2	1:A:1390:GLN:HB2	1.59	0.83
1:A:1401:VAL:HG22	1:A:1429:ARG:NE	1.93	0.83
1:B:1420:ASN:OD1	1:B:1447:LEU:HD22	1.78	0.83
1:A:1427:SER:CB	1:A:1428:PRO:CD	2.42	0.83
1:A:1494:SER:HA	1:A:1497:GLN:CD	2.02	0.83
1:B:1404:TYR:O	1:B:1407:ALA:HB3	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1504:LEU:HD22	2:D:152:ASN:CB	2.01	0.83
1:B:1509:ARG:CZ	2:D:166:ALA:H	1.91	0.83
1:C:1104:GLU:HB2	1:C:1108:TRP:HZ2	1.38	0.83
1:C:1159:MET:O	1:C:1163:LYS:HE2	1.77	0.83
1:C:1332:MET:SD	1:C:1360:GLU:HG2	2.17	0.83
1:C:1494:SER:HA	1:C:1497:GLN:CD	2.02	0.83
1:A:1325:SER:O	1:A:1355:ALA:HB1	1.77	0.83
1:B:1264:LYS:HE2	1:B:1268:LEU:CG	2.08	0.83
1:B:1408:ILE:HG21	1:B:1412:LEU:HD23	1.60	0.83
1:B:1448:VAL:HB	1:B:1451:TYR:CD2	2.13	0.83
1:C:1521:TRP:HZ3	1:C:1522:LYS:NZ	1.74	0.83
2:F:195:UNK:O	2:F:197:UNK:CB	2.27	0.83
1:A:1209:LYS:HB2	1:A:1231:LEU:HB3	1.61	0.83
1:B:1079:THR:HG23	1:B:1105:PRO:CG	2.08	0.83
1:C:1109:SER:HB2	1:C:1135:SER:CB	2.06	0.83
1:C:1181:ASN:O	1:C:1181:ASN:OD1	1.96	0.83
1:B:1465:GLU:CD	1:B:1465:GLU:C	2.46	0.83
1:B:1494:SER:HA	1:B:1497:GLN:CD	2.02	0.83
1:A:1465:GLU:CD	1:A:1465:GLU:C	2.47	0.83
1:B:1430:LEU:HG	1:B:1432:HIS:H	1.42	0.83
1:C:1387:LYS:HB2	1:C:1390:GLN:HB2	1.59	0.83
1:C:1408:ILE:HG21	1:C:1412:LEU:CD2	2.05	0.83
1:C:1420:ASN:OD1	1:C:1447:LEU:HD22	1.78	0.83
1:C:1472:ILE:HB	1:C:1498:ARG:HH21	1.41	0.83
1:A:1358:TRP:HH2	1:A:1381:HIS:CE1	1.95	0.83
1:B:1325:SER:O	1:B:1355:ALA:HB1	1.77	0.83
1:C:1325:SER:O	1:C:1355:ALA:HB1	1.77	0.83
1:C:1445:LEU:N	1:C:1446:PRO:HD2	1.94	0.83
1:A:1122:LYS:O	1:A:1126:ASP:HB2	1.79	0.83
1:A:1438:TYR:O	1:A:1442:VAL:HG23	1.79	0.83
1:A:1444:GLN:CG	2:F:134:ASP:CB	2.46	0.83
1:B:1279:HIS:HB2	1:B:1282:GLU:HB3	1.60	0.83
1:C:1605:GLU:HA	1:C:1608:THR:CB	2.09	0.83
1:A:1159:MET:O	1:A:1163:LYS:HE2	1.77	0.83
1:A:1404:TYR:O	1:A:1407:ALA:HB3	1.78	0.83
1:A:1408:ILE:HG21	1:A:1412:LEU:HD23	1.60	0.83
1:A:1444:GLN:C	1:A:1446:PRO:HD2	2.04	0.83
1:C:1209:LYS:HB2	1:C:1231:LEU:HB3	1.61	0.83
1:C:1282:GLU:HG3	1:C:1283:LEU:N	1.92	0.83
1:C:1448:VAL:HB	1:C:1451:TYR:CD2	2.13	0.83
1:C:1465:GLU:CD	1:C:1465:GLU:C	2.46	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:90:ALA:H	2:E:91:GLN:CB	1.92	0.83
2:E:105:TRP:O	2:E:108:GLU:HG3	1.79	0.83
1:A:1253:TRP:O	1:A:1289:TYR:HE2	1.56	0.83
1:B:1387:LYS:HB2	1:B:1390:GLN:HB2	1.59	0.83
1:B:1419:LEU:O	1:B:1422:LEU:CB	2.24	0.83
1:B:1445:LEU:N	1:B:1446:PRO:HD2	1.94	0.83
1:B:1597:PRO:HB2	1:C:1587:TRP:CZ3	2.13	0.83
1:C:1405:TYR:CG	1:C:1434:ARG:NH1	2.47	0.83
1:B:1181:ASN:O	1:B:1181:ASN:OD1	1.96	0.82
1:C:1404:TYR:O	1:C:1407:ALA:HB3	1.78	0.82
1:A:1382:PRO:HG2	2:F:123:MET:HE3	0.85	0.82
1:B:1161:ARG:HH21	1:B:1170:GLU:CG	1.91	0.82
1:C:1577:LEU:O	1:C:1579:PRO:HD3	1.79	0.82
2:D:181:UNK:O	2:D:183:UNK:CB	2.26	0.82
1:A:1130:LYS:HE2	1:A:1156:TYR:HA	1.62	0.82
1:A:1411:TYR:O	1:A:1415:LYS:N	2.13	0.82
2:E:104:LYS:O	2:E:108:GLU:CB	2.25	0.82
1:A:1420:ASN:OD1	1:A:1447:LEU:HD22	1.78	0.82
1:A:1605:GLU:HA	1:A:1608:THR:CB	2.09	0.82
1:B:1161:ARG:HH21	1:B:1170:GLU:HG3	1.44	0.82
1:B:1444:GLN:C	1:B:1446:PRO:HD2	2.04	0.82
1:B:1605:GLU:HA	1:B:1608:THR:CB	2.09	0.82
1:C:1361:LEU:HD23	1:C:1361:LEU:C	2.05	0.82
1:C:1438:TYR:O	1:C:1442:VAL:HG23	1.79	0.82
1:A:1192:GLY:N	1:A:1193:PRO:HD3	1.92	0.82
1:A:1317:PHE:H	1:A:1317:PHE:HD2	1.24	0.82
1:B:1122:LYS:HG3	1:B:1123:GLU:H	1.43	0.82
1:C:1253:TRP:C	1:C:1255:GLU:H	1.86	0.82
1:C:1430:LEU:HG	1:C:1432:HIS:H	1.42	0.82
1:C:1444:GLN:C	1:C:1446:PRO:HD2	2.04	0.82
2:D:180:UNK:C	2:D:183:UNK:CA	2.57	0.82
1:C:1408:ILE:HG21	1:C:1412:LEU:HD23	1.60	0.82
1:C:1592:MET:C	1:C:1592:MET:HE2	2.05	0.82
1:A:1356:HIS:HD2	2:F:112:ARG:HA	1.43	0.82
1:A:1405:TYR:CG	1:A:1434:ARG:NH1	2.47	0.82
1:B:1361:LEU:HD23	1:B:1361:LEU:C	2.04	0.82
1:C:1161:ARG:HH21	1:C:1170:GLU:HG3	1.44	0.82
1:C:1401:VAL:HG22	1:C:1429:ARG:NE	1.93	0.82
1:C:1412:LEU:HD12	1:C:1419:LEU:CD2	2.08	0.82
1:A:1279:HIS:HB2	1:A:1282:GLU:HB3	1.60	0.82
1:C:1411:TYR:O	1:C:1415:LYS:N	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1438:TYR:O	1:A:1442:VAL:CG2	2.28	0.82
1:B:1154:VAL:HG21	1:B:1180:THR:HG23	1.61	0.82
1:B:1317:PHE:H	1:B:1317:PHE:HD2	1.24	0.82
1:A:1261:VAL:HG22	1:A:1295:TYR:HE2	1.45	0.82
1:B:1130:LYS:HE2	1:B:1156:TYR:HA	1.61	0.82
1:B:1577:LEU:O	1:B:1579:PRO:HD3	1.80	0.82
1:C:1130:LYS:CD	1:C:1156:TYR:CD1	2.62	0.82
1:C:1264:LYS:HE2	1:C:1268:LEU:CG	2.08	0.82
2:D:155:ILE:H	2:D:155:ILE:HD13	1.45	0.82
1:A:1361:LEU:HD21	1:A:1365:TYR:CZ	2.15	0.81
1:A:1505:ILE:HD13	1:A:1505:ILE:H	1.45	0.81
1:B:1148:GLY:HA2	1:B:1150:TRP:CE3	2.13	0.81
1:B:1253:TRP:C	1:B:1255:GLU:H	1.86	0.81
1:C:1505:ILE:HD13	1:C:1505:ILE:H	1.45	0.81
1:B:1206:TYR:O	1:B:1230:THR:HG21	1.80	0.81
1:B:1411:TYR:O	1:B:1415:LYS:N	2.12	0.81
1:C:1387:LYS:CB	1:C:1390:GLN:HB2	2.10	0.81
1:C:1395:ILE:HG12	1:C:1404:TYR:CD2	2.15	0.81
2:D:180:UNK:O	2:D:183:UNK:CA	2.27	0.81
1:A:1206:TYR:O	1:A:1230:THR:HG21	1.80	0.81
1:A:1292:ASP:OD1	2:F:98:GLU:N	1.94	0.81
1:A:1326:LYS:O	1:A:1327:PHE:CG	2.33	0.81
1:A:1361:LEU:HD23	1:A:1361:LEU:C	2.05	0.81
1:A:1474:GLU:O	2:F:145:GLN:CG	2.28	0.81
1:A:1605:GLU:HG3	1:B:1580:ASP:OD2	1.79	0.81
1:B:1438:TYR:O	1:B:1442:VAL:HG23	1.79	0.81
1:C:1122:LYS:HG3	1:C:1123:GLU:H	1.43	0.81
1:C:1165:ARG:HH21	1:C:1194:ASN:ND2	1.79	0.81
2:F:190:UNK:O	2:F:192:UNK:N	2.13	0.81
2:F:194:UNK:O	2:F:197:UNK:CA	2.29	0.81
1:A:1148:GLY:HA2	1:A:1150:TRP:CE3	2.14	0.81
1:B:1538:MET:HE3	1:B:1566:PHE:HB3	1.62	0.81
1:C:1148:GLY:HA2	1:C:1150:TRP:CE3	2.14	0.81
1:C:1279:HIS:HB2	1:C:1282:GLU:HB3	1.60	0.81
1:C:1492:ASN:O	1:C:1493:ILE:HD13	1.80	0.81
2:E:203:UNK:C	2:E:203:UNK:N	2.42	0.81
1:A:1154:VAL:HG21	1:A:1180:THR:HG23	1.61	0.81
1:B:1209:LYS:HB2	1:B:1231:LEU:HB3	1.61	0.81
1:B:1403:LEU:HD13	1:B:1403:LEU:C	2.05	0.81
1:A:1122:LYS:HG3	1:A:1123:GLU:H	1.43	0.81
1:A:1161:ARG:HH21	1:A:1170:GLU:HG3	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1165:ARG:HH21	1:B:1194:ASN:ND2	1.79	0.81
1:B:1438:TYR:O	1:B:1442:VAL:CG2	2.28	0.81
1:B:1505:ILE:H	1:B:1505:ILE:HD13	1.45	0.81
1:C:1326:LYS:O	1:C:1327:PHE:CG	2.33	0.81
1:A:1387:LYS:CB	1:A:1390:GLN:HB2	2.10	0.81
1:A:1592:MET:C	1:A:1592:MET:HE2	2.05	0.81
1:B:1583:LEU:O	1:B:1587:TRP:NE1	2.14	0.81
1:C:1122:LYS:NZ	1:C:1147:SER:CB	2.43	0.81
1:C:1122:LYS:O	1:C:1126:ASP:HB2	1.79	0.81
1:A:1166:GLU:O	1:A:1170:GLU:CB	2.28	0.81
1:B:1362:VAL:HG22	1:B:1377:THR:CG2	2.11	0.81
1:A:1130:LYS:CD	1:A:1156:TYR:CD1	2.62	0.81
1:A:1166:GLU:O	1:A:1170:GLU:HG2	1.81	0.81
1:A:1408:ILE:HG23	1:A:1412:LEU:HB2	1.63	0.81
1:A:1626:ALA:O	1:A:1630:GLN:HG3	1.81	0.81
1:B:1166:GLU:O	1:B:1170:GLU:CB	2.29	0.81
1:B:1387:LYS:CB	1:B:1390:GLN:HB2	2.10	0.81
1:B:1408:ILE:HG23	1:B:1412:LEU:HB2	1.63	0.81
1:C:1408:ILE:HG23	1:C:1412:LEU:HB2	1.63	0.81
1:A:1403:LEU:C	1:A:1403:LEU:HD13	2.05	0.81
1:A:1586:ALA:O	1:A:1591:ILE:N	2.14	0.81
1:B:1091:ASN:ND2	1:B:1092:LEU:HG	1.95	0.81
1:B:1292:ASP:HA	2:D:97:GLN:C	2.04	0.81
1:C:1161:ARG:HA	1:C:1165:ARG:CA	2.10	0.81
1:C:1166:GLU:O	1:C:1170:GLU:CB	2.28	0.81
1:C:1358:TRP:HH2	1:C:1381:HIS:CE1	1.95	0.81
1:A:1113:LYS:N	1:A:1139:GLU:OE2	2.14	0.80
1:A:1358:TRP:CE3	1:A:1381:HIS:CD2	2.69	0.80
1:B:1161:ARG:HA	1:B:1165:ARG:CA	2.10	0.80
1:B:1167:SER:O	1:B:1171:THR:CA	2.28	0.80
1:B:1431:ASP:O	1:B:1433:THR:N	2.14	0.80
1:B:1592:MET:C	1:B:1592:MET:HE2	2.05	0.80
1:B:1626:ALA:O	1:B:1630:GLN:HG3	1.81	0.80
1:C:1079:THR:HG23	1:C:1105:PRO:CG	2.07	0.80
1:C:1130:LYS:HE2	1:C:1156:TYR:HA	1.62	0.80
1:C:1165:ARG:NH2	1:C:1194:ASN:CG	2.34	0.80
1:C:1438:TYR:O	1:C:1442:VAL:CG2	2.28	0.80
2:E:126:GLU:O	2:E:129:GLU:HG2	1.81	0.80
1:A:1091:ASN:ND2	1:A:1092:LEU:HG	1.95	0.80
1:A:1274:LEU:C	1:A:1277:VAL:HG22	2.06	0.80
1:A:1395:ILE:HG12	1:A:1404:TYR:CD2	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1539:GLN:HE22	2:F:177:UNK:CB	1.92	0.80
1:B:1492:ASN:O	1:B:1493:ILE:HD13	1.80	0.80
1:C:1166:GLU:O	1:C:1170:GLU:HG2	1.81	0.80
1:C:1403:LEU:C	1:C:1403:LEU:HD13	2.05	0.80
1:A:1122:LYS:NZ	1:A:1147:SER:CB	2.43	0.80
1:B:1122:LYS:O	1:B:1126:ASP:HB2	1.79	0.80
1:B:1326:LYS:O	1:B:1327:PHE:CG	2.33	0.80
1:C:1296:PHE:O	1:C:1297:GLU:C	2.25	0.80
1:A:1445:LEU:N	1:A:1446:PRO:HD2	1.94	0.80
1:A:1577:LEU:O	1:A:1579:PRO:HD3	1.79	0.80
1:B:1122:LYS:NZ	1:B:1147:SER:CB	2.43	0.80
1:B:1356:HIS:CD2	2:D:112:ARG:HE	2.00	0.80
1:B:1361:LEU:HD21	1:B:1365:TYR:CZ	2.15	0.80
1:C:1091:ASN:ND2	1:C:1092:LEU:HG	1.95	0.80
1:C:1167:SER:O	1:C:1171:THR:CA	2.28	0.80
1:C:1274:LEU:C	1:C:1277:VAL:HG22	2.06	0.80
2:E:90:ALA:H	2:E:91:GLN:CA	1.94	0.80
2:F:162:GLN:C	2:F:166:ALA:CB	2.51	0.80
1:A:1414:PHE:HB2	2:F:130:LYS:NZ	1.97	0.80
1:B:1113:LYS:N	1:B:1139:GLU:OE2	2.14	0.80
1:B:1130:LYS:CD	1:B:1156:TYR:CD1	2.62	0.80
1:B:1405:TYR:CG	1:B:1434:ARG:NH1	2.47	0.80
1:C:1336:LEU:HD13	1:C:1364:LEU:HD21	1.62	0.80
1:A:1165:ARG:HH21	1:A:1194:ASN:ND2	1.79	0.80
1:A:1605:GLU:CB	1:B:1580:ASP:OD1	2.28	0.80
2:E:155:ILE:H	2:E:155:ILE:CD1	1.95	0.80
1:A:1583:LEU:O	1:A:1587:TRP:NE1	2.14	0.80
1:C:1206:TYR:O	1:C:1230:THR:HG21	1.80	0.80
1:C:1362:VAL:HG22	1:C:1377:THR:CG2	2.11	0.80
1:C:1621:LYS:O	1:C:1625:GLN:HG3	1.82	0.80
2:F:180:UNK:O	2:F:182:UNK:N	2.15	0.80
1:B:1274:LEU:C	1:B:1277:VAL:HG22	2.06	0.80
1:B:1296:PHE:O	1:B:1297:GLU:C	2.25	0.80
1:C:1113:LYS:N	1:C:1139:GLU:OE2	2.14	0.80
1:A:1414:PHE:CB	2:F:130:LYS:NZ	2.45	0.80
1:B:1165:ARG:NH2	1:B:1194:ASN:CG	2.34	0.80
1:B:1166:GLU:O	1:B:1170:GLU:HG2	1.81	0.80
1:B:1277:VAL:HG23	1:B:1278:VAL:H	1.47	0.80
1:B:1395:ILE:HG12	1:B:1404:TYR:CD2	2.15	0.80
1:A:1167:SER:O	1:A:1171:THR:CA	2.28	0.80
1:A:1431:ASP:O	1:A:1433:THR:N	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1601:GLN:CB	1:B:1587:TRP:CH2	2.62	0.80
1:A:1621:LYS:O	1:A:1625:GLN:HG3	1.82	0.80
1:C:1586:ALA:O	1:C:1591:ILE:N	2.14	0.80
1:A:1159:MET:CA	1:A:1163:LYS:NZ	2.37	0.79
1:A:1358:TRP:O	1:A:1362:VAL:CG2	2.29	0.79
1:B:1586:ALA:O	1:B:1591:ILE:N	2.14	0.79
1:C:1583:LEU:O	1:C:1587:TRP:NE1	2.14	0.79
1:A:1161:ARG:HA	1:A:1165:ARG:CA	2.10	0.79
1:A:1362:VAL:HG22	1:A:1377:THR:CG2	2.11	0.79
1:A:1492:ASN:O	1:A:1493:ILE:HD13	1.80	0.79
1:B:1159:MET:O	1:B:1163:LYS:CD	2.30	0.79
1:C:1122:LYS:CE	1:C:1147:SER:CB	2.60	0.79
1:A:1538:MET:HE3	1:A:1566:PHE:HB3	1.63	0.79
1:B:1514:LEU:O	1:B:1514:LEU:HD23	1.82	0.79
1:C:1358:TRP:CE3	1:C:1381:HIS:CD2	2.69	0.79
1:B:1412:LEU:CA	1:B:1419:LEU:HD13	2.13	0.79
1:C:1358:TRP:O	1:C:1362:VAL:CG2	2.30	0.79
1:C:1514:LEU:HD23	1:C:1514:LEU:O	1.82	0.79
2:E:127:TRP:HA	2:E:130:LYS:HE3	1.65	0.79
1:A:1085:LEU:O	1:A:1086:ILE:O	2.01	0.79
1:A:1270:GLN:OE1	1:A:1298:GLU:HB3	1.83	0.79
1:B:1122:LYS:CE	1:B:1147:SER:CB	2.60	0.79
1:C:1361:LEU:HD21	1:C:1365:TYR:CZ	2.16	0.79
1:C:1566:PHE:CZ	2:E:178:UNK:HA	2.16	0.79
1:A:1412:LEU:CA	1:A:1419:LEU:HD13	2.13	0.79
1:A:1605:GLU:CA	1:A:1608:THR:HB	2.12	0.79
1:B:1234:LEU:HG	1:B:1235:GLY:H	1.48	0.79
1:B:1261:VAL:HG22	1:B:1295:TYR:HE2	1.45	0.79
1:B:1381:HIS:HA	2:D:115:GLU:HG3	1.64	0.79
1:C:1159:MET:O	1:C:1163:LYS:CD	2.30	0.79
1:C:1192:GLY:N	1:C:1193:PRO:CD	2.45	0.79
1:A:1159:MET:O	1:A:1163:LYS:CD	2.30	0.79
1:A:1232:VAL:C	1:A:1234:LEU:N	2.37	0.79
1:B:1336:LEU:HD13	1:B:1364:LEU:HD21	1.62	0.79
1:B:1358:TRP:CE3	1:B:1381:HIS:CD2	2.69	0.79
1:C:1626:ALA:O	1:C:1630:GLN:HG3	1.81	0.79
2:D:126:GLU:O	2:D:129:GLU:HG2	1.81	0.79
1:A:1414:PHE:HE1	2:F:127:TRP:CD1	1.94	0.79
1:B:1161:ARG:HE	1:B:1170:GLU:HB2	1.48	0.79
1:C:1538:MET:HE3	1:C:1566:PHE:HB3	1.62	0.79
1:A:1149:ASN:O	1:A:1153:LEU:HB2	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1161:ARG:HE	1:A:1170:GLU:HB2	1.47	0.79
1:A:1357:LEU:HD21	2:F:111:LYS:HE3	1.41	0.79
1:B:1158:GLN:HG2	1:B:1159:MET:SD	2.23	0.79
1:B:1270:GLN:OE1	1:B:1298:GLU:HB3	1.83	0.79
1:B:1621:LYS:O	1:B:1625:GLN:HG3	1.82	0.79
1:C:1412:LEU:CA	1:C:1419:LEU:HD13	2.13	0.79
2:F:126:GLU:O	2:F:129:GLU:HG2	1.81	0.79
1:A:1192:GLY:N	1:A:1193:PRO:CD	2.45	0.79
1:A:1234:LEU:HG	1:A:1235:GLY:H	1.48	0.79
1:B:1192:GLY:N	1:B:1193:PRO:CD	2.45	0.79
1:C:1079:THR:HG22	1:C:1079:THR:O	1.83	0.79
1:C:1158:GLN:HG2	1:C:1159:MET:SD	2.23	0.79
1:C:1598:TYR:HD2	2:E:198:UNK:CB	1.95	0.79
1:C:1605:GLU:CA	1:C:1608:THR:HB	2.12	0.79
1:A:1082:VAL:HG13	1:A:1083:GLN:N	1.97	0.78
1:A:1122:LYS:CE	1:A:1147:SER:CB	2.60	0.78
1:A:1158:GLN:HG2	1:A:1159:MET:SD	2.23	0.78
1:A:1414:PHE:CZ	2:F:127:TRP:CD1	2.61	0.78
1:A:1277:VAL:HG23	1:A:1278:VAL:H	1.47	0.78
1:A:1505:ILE:HD12	2:F:153:ASN:ND2	1.59	0.78
1:B:1214:ALA:O	1:B:1218:TYR:HB2	1.84	0.78
1:B:1471:PHE:HB3	1:B:1480:LEU:HB2	1.66	0.78
1:C:1499:LEU:HB2	1:C:1511:ALA:HB2	1.66	0.78
2:F:194:UNK:C	2:F:197:UNK:CA	2.61	0.78
1:A:1271:MET:O	1:A:1275:HIS:HB2	1.83	0.78
1:A:1336:LEU:HD13	1:A:1364:LEU:HD21	1.62	0.78
1:A:1387:LYS:HB2	1:A:1390:GLN:HB3	1.64	0.78
1:B:1149:ASN:O	1:B:1153:LEU:HB2	1.83	0.78
1:B:1358:TRP:O	1:B:1362:VAL:CG2	2.30	0.78
1:C:1270:GLN:OE1	1:C:1298:GLU:HB3	1.83	0.78
1:A:1514:LEU:HD23	1:A:1514:LEU:O	1.82	0.78
1:B:1271:MET:O	1:B:1275:HIS:HB2	1.83	0.78
1:B:1327:PHE:CA	2:D:104:LYS:HZ1	1.88	0.78
1:B:1387:LYS:HB2	1:B:1390:GLN:HB3	1.64	0.78
1:B:1419:LEU:C	1:B:1422:LEU:HB3	2.08	0.78
1:B:1609:LYS:HG2	1:B:1612:LYS:HD2	1.66	0.78
1:C:1154:VAL:HG21	1:C:1180:THR:HG23	1.61	0.78
1:C:1471:PHE:HB3	1:C:1480:LEU:HB2	1.66	0.78
1:A:1419:LEU:C	1:A:1422:LEU:HB3	2.08	0.78
1:B:1091:ASN:HD21	1:B:1092:LEU:HG	1.49	0.78
1:B:1168:TYR:H	1:B:1168:TYR:HD1	1.31	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1609:LYS:HG2	1:A:1612:LYS:HD2	1.66	0.78
1:C:1271:MET:O	1:C:1275:HIS:HB2	1.84	0.78
2:D:150:LYS:O	2:D:152:ASN:O	2.02	0.78
2:F:150:LYS:O	2:F:152:ASN:O	2.02	0.78
1:A:1327:PHE:CG	2:F:104:LYS:NZ	2.20	0.78
1:B:1326:LYS:O	2:D:104:LYS:HE2	1.78	0.78
1:C:1085:LEU:O	1:C:1086:ILE:O	2.01	0.78
1:C:1149:ASN:O	1:C:1153:LEU:HB2	1.83	0.78
1:C:1277:VAL:HG23	1:C:1278:VAL:H	1.47	0.78
1:C:1427:SER:HB3	1:C:1428:PRO:HD3	1.65	0.78
1:C:1598:TYR:CD2	2:E:198:UNK:C	2.66	0.78
2:E:108:GLU:OE2	2:E:109:GLN:CG	2.32	0.78
1:A:1091:ASN:HD21	1:A:1092:LEU:HG	1.49	0.78
1:A:1471:PHE:HB3	1:A:1480:LEU:HB2	1.66	0.78
1:A:1596:MET:H	1:A:1597:PRO:CD	1.93	0.78
1:B:1292:ASP:O	2:D:96:THR:HG23	1.82	0.78
1:A:1296:PHE:O	1:A:1297:GLU:C	2.25	0.78
1:B:1108:TRP:CZ2	1:B:1129:ILE:CB	2.51	0.78
1:C:1168:TYR:HD1	1:C:1168:TYR:H	1.31	0.78
2:D:127:TRP:HA	2:D:130:LYS:HE3	1.65	0.78
2:E:151:ILE:HA	2:E:154:ARG:HD3	1.66	0.78
1:A:1166:GLU:O	1:A:1170:GLU:CA	2.32	0.78
1:A:1471:PHE:HA	1:A:1474:GLU:HG2	1.66	0.78
1:A:1617:GLU:HA	1:A:1620:ARG:NH1	1.99	0.78
1:B:1617:GLU:HA	1:B:1620:ARG:NH1	1.99	0.78
1:C:1513:TYR:O	1:C:1516:LYS:HG2	1.84	0.78
2:F:151:ILE:HA	2:F:154:ARG:HD3	1.65	0.78
1:B:1535:LYS:HE2	1:B:1535:LYS:HA	1.66	0.77
1:C:1232:VAL:C	1:C:1234:LEU:N	2.37	0.77
1:C:1387:LYS:HB2	1:C:1390:GLN:HB3	1.64	0.77
1:C:1617:GLU:HA	1:C:1620:ARG:NH1	1.99	0.77
1:A:1078:ASN:C	1:A:1102:CYS:HB3	2.09	0.77
1:A:1214:ALA:O	1:A:1218:TYR:HB2	1.83	0.77
1:A:1525:VAL:HG13	1:A:1526:GLU:OE2	1.84	0.77
1:B:1375:ILE:HD11	1:B:1394:ILE:HB	1.66	0.77
2:D:172:UNK:O	2:D:175:UNK:CB	2.31	0.77
2:E:202:UNK:O	2:E:203:UNK:O	2.01	0.77
1:A:1161:ARG:HH21	1:A:1170:GLU:CD	1.93	0.77
1:A:1253:TRP:O	1:A:1289:TYR:CZ	2.38	0.77
1:A:1513:TYR:O	1:A:1516:LYS:HG2	1.84	0.77
1:B:1166:GLU:O	1:B:1170:GLU:CA	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1082:VAL:HG13	1:C:1083:GLN:N	1.97	0.77
1:B:1159:MET:CA	1:B:1163:LYS:NZ	2.37	0.77
1:C:1078:ASN:C	1:C:1102:CYS:HB3	2.09	0.77
1:C:1161:ARG:HH21	1:C:1170:GLU:CD	1.92	0.77
1:C:1525:VAL:HG13	1:C:1526:GLU:OE2	1.84	0.77
1:A:1165:ARG:CZ	1:A:1194:ASN:OD1	2.33	0.77
1:A:1428:PRO:O	1:A:1429:ARG:CB	2.32	0.77
1:A:1535:LYS:HA	1:A:1535:LYS:HE2	1.66	0.77
1:B:1161:ARG:HH21	1:B:1170:GLU:CD	1.93	0.77
1:B:1428:PRO:O	1:B:1429:ARG:CB	2.32	0.77
1:C:1107:VAL:HG12	1:C:1111:LEU:HB2	1.66	0.77
1:C:1253:TRP:O	1:C:1289:TYR:CZ	2.38	0.77
1:C:1419:LEU:C	1:C:1422:LEU:HB3	2.08	0.77
1:C:1431:ASP:O	1:C:1433:THR:N	2.14	0.77
1:C:1609:LYS:HG2	1:C:1612:LYS:HD2	1.66	0.77
2:D:126:GLU:HG3	2:D:130:LYS:HZ1	1.49	0.77
1:B:1471:PHE:HA	1:B:1474:GLU:HG2	1.66	0.77
1:C:1166:GLU:O	1:C:1170:GLU:CA	2.32	0.77
1:A:1079:THR:HG22	1:A:1079:THR:O	1.83	0.77
1:A:1403:LEU:HD13	1:A:1403:LEU:O	1.85	0.77
1:A:1584:GLU:HA	1:A:1587:TRP:CD2	2.20	0.77
1:C:1409:GLN:O	1:C:1413:GLU:CB	2.30	0.77
2:E:146:VAL:HA	2:E:149:ASN:OD1	1.85	0.77
2:F:194:UNK:O	2:F:197:UNK:HA	1.85	0.77
1:A:1107:VAL:HG12	1:A:1111:LEU:HB2	1.66	0.77
1:A:1279:HIS:CG	1:A:1282:GLU:CB	2.66	0.77
1:A:1290:TYR:CD2	1:A:1299:LEU:CD1	2.57	0.77
1:B:1079:THR:HG22	1:B:1079:THR:O	1.83	0.77
1:B:1159:MET:O	1:B:1163:LYS:CE	2.33	0.77
1:B:1279:HIS:CG	1:B:1282:GLU:CB	2.66	0.77
1:B:1525:VAL:HG13	1:B:1526:GLU:OE2	1.84	0.77
1:C:1472:ILE:HA	1:C:1507:PHE:CE1	2.18	0.77
1:B:1250:THR:HB	1:B:1285:GLU:OE1	1.85	0.77
1:C:1130:LYS:HB2	1:C:1156:TYR:CE1	2.20	0.77
1:C:1234:LEU:HG	1:C:1235:GLY:H	1.48	0.77
1:C:1535:LYS:HE2	1:C:1535:LYS:HA	1.66	0.77
1:A:1130:LYS:HB2	1:A:1156:TYR:CE1	2.20	0.77
1:A:1294:GLY:HA2	2:F:100:GLU:O	1.85	0.77
1:B:1414:PHE:O	2:D:130:LYS:HE2	1.82	0.77
2:E:150:LYS:O	2:E:152:ASN:O	2.02	0.77
2:F:190:UNK:O	2:F:191:UNK:C	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1115:GLN:HG3	1:A:1125:ILE:HG12	1.67	0.76
1:A:1375:ILE:HD11	1:A:1394:ILE:HB	1.66	0.76
1:A:1427:SER:HB3	1:A:1428:PRO:HD3	1.65	0.76
1:A:1499:LEU:HB2	1:A:1511:ALA:HB2	1.66	0.76
1:B:1107:VAL:HG12	1:B:1111:LEU:HB2	1.67	0.76
1:B:1253:TRP:O	1:B:1289:TYR:CZ	2.38	0.76
1:B:1264:LYS:NZ	1:B:1268:LEU:CD1	2.48	0.76
1:B:1584:GLU:HA	1:B:1587:TRP:CD2	2.20	0.76
1:C:1161:ARG:HE	1:C:1170:GLU:HB2	1.48	0.76
1:C:1165:ARG:CZ	1:C:1194:ASN:OD1	2.33	0.76
1:C:1428:PRO:O	1:C:1429:ARG:CB	2.32	0.76
2:F:118:ALA:HA	2:F:121:LYS:CE	2.15	0.76
1:A:1165:ARG:NH2	1:A:1194:ASN:CG	2.34	0.76
1:B:1085:LEU:O	1:B:1086:ILE:O	2.01	0.76
1:C:1137:TYR:O	1:C:1141:VAL:HG23	1.85	0.76
1:C:1214:ALA:O	1:C:1218:TYR:HB2	1.84	0.76
1:C:1250:THR:HB	1:C:1285:GLU:OE1	1.85	0.76
1:C:1264:LYS:NZ	1:C:1268:LEU:CD1	2.48	0.76
2:D:181:UNK:O	2:D:182:UNK:C	2.28	0.76
1:C:1403:LEU:HD13	1:C:1403:LEU:O	1.85	0.76
1:B:1165:ARG:CZ	1:B:1194:ASN:OD1	2.33	0.76
1:B:1277:VAL:HG23	1:B:1278:VAL:N	2.01	0.76
1:B:1499:LEU:HB2	1:B:1511:ALA:HB2	1.66	0.76
2:E:105:TRP:C	2:E:108:GLU:HG3	2.10	0.76
2:E:133:LYS:HA	2:E:133:LYS:HZ1	1.46	0.76
2:F:118:ALA:HA	2:F:121:LYS:HE3	1.68	0.76
1:A:1137:TYR:O	1:A:1141:VAL:HG23	1.86	0.76
1:B:1513:TYR:O	1:B:1516:LYS:HG2	1.84	0.76
1:C:1166:GLU:OE1	1:C:1168:TYR:CD2	2.39	0.76
1:B:1292:ASP:HA	2:D:97:GLN:CA	2.15	0.76
2:D:118:ALA:HA	2:D:121:LYS:CE	2.15	0.76
2:D:151:ILE:HA	2:D:154:ARG:HD3	1.66	0.76
2:F:146:VAL:HA	2:F:149:ASN:OD1	1.85	0.76
1:A:1472:ILE:HA	1:A:1507:PHE:CE1	2.18	0.76
1:B:1601:GLN:HG3	1:B:1604:LYS:HD2	1.67	0.76
1:C:1122:LYS:HG3	1:C:1123:GLU:N	1.99	0.76
1:C:1375:ILE:HD11	1:C:1394:ILE:HB	1.66	0.76
1:C:1596:MET:H	1:C:1597:PRO:CD	1.93	0.76
2:F:127:TRP:HA	2:F:130:LYS:HE3	1.66	0.76
1:A:1270:GLN:CD	1:A:1298:GLU:HB3	2.11	0.76
1:B:1115:GLN:HG3	1:B:1125:ILE:HG12	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1270:GLN:CD	1:B:1298:GLU:HB3	2.11	0.76
1:C:1159:MET:CA	1:C:1163:LYS:NZ	2.37	0.76
1:C:1333:ARG:HB2	1:C:1360:GLU:CD	2.10	0.76
2:D:146:VAL:HA	2:D:149:ASN:OD1	1.85	0.76
1:A:1181:ASN:OD1	1:A:1181:ASN:C	2.28	0.76
1:A:1264:LYS:NZ	1:A:1268:LEU:CD1	2.48	0.76
1:A:1282:GLU:CG	1:A:1283:LEU:H	1.99	0.76
1:A:1357:LEU:HD21	2:F:111:LYS:HE2	1.66	0.76
1:A:1535:LYS:NZ	1:A:1563:ARG:HH12	1.84	0.76
1:B:1130:LYS:HB2	1:B:1156:TYR:CE1	2.20	0.76
1:B:1181:ASN:OD1	1:B:1181:ASN:C	2.28	0.76
1:B:1504:LEU:CG	2:D:149:ASN:HA	2.15	0.76
1:A:1122:LYS:HG3	1:A:1123:GLU:N	1.99	0.76
1:A:1166:GLU:OE1	1:A:1168:TYR:CD2	2.38	0.76
1:A:1274:LEU:HG	1:A:1302:MET:CG	2.14	0.76
1:B:1078:ASN:C	1:B:1102:CYS:HB3	2.09	0.76
1:B:1137:TYR:O	1:B:1141:VAL:HG23	1.86	0.76
1:B:1605:GLU:CA	1:B:1608:THR:HB	2.12	0.76
1:C:1181:ASN:OD1	1:C:1181:ASN:C	2.28	0.76
1:A:1108:TRP:CZ2	1:A:1129:ILE:CB	2.51	0.75
1:A:1274:LEU:HA	1:A:1277:VAL:CG2	2.16	0.75
1:A:1327:PHE:HE1	2:F:104:LYS:HB3	1.31	0.75
1:B:1122:LYS:HG3	1:B:1123:GLU:N	1.99	0.75
1:B:1166:GLU:OE1	1:B:1168:TYR:CD2	2.39	0.75
1:B:1188:GLU:HA	1:B:1191:ASN:HD22	1.50	0.75
1:C:1261:VAL:HG22	1:C:1295:TYR:HE2	1.45	0.75
1:C:1471:PHE:HA	1:C:1474:GLU:HG2	1.66	0.75
1:A:1258:PHE:HZ	2:F:93:ASP:OD1	1.69	0.75
1:B:1232:VAL:C	1:B:1234:LEU:N	2.37	0.75
1:C:1521:TRP:O	1:C:1525:VAL:HG12	1.86	0.75
2:F:91:GLN:NE2	2:F:94:ARG:HG2	2.01	0.75
1:A:1079:THR:HG23	1:A:1105:PRO:CG	2.08	0.75
1:A:1215:LYS:C	1:A:1217:LEU:H	1.93	0.75
1:A:1277:VAL:HG23	1:A:1278:VAL:N	2.01	0.75
1:A:1333:ARG:HB2	1:A:1360:GLU:CD	2.10	0.75
1:A:1592:MET:HE2	1:A:1592:MET:CA	2.17	0.75
1:A:1601:GLN:HG3	1:A:1604:LYS:HD2	1.67	0.75
1:B:1082:VAL:HG13	1:B:1083:GLN:N	1.97	0.75
1:B:1358:TRP:HE3	1:B:1377:THR:HG22	1.49	0.75
1:C:1270:GLN:CD	1:C:1298:GLU:HB3	2.11	0.75
1:C:1598:TYR:HD2	2:E:198:UNK:C	1.97	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1333:ARG:HB2	1:B:1360:GLU:CD	2.10	0.75
1:C:1414:PHE:O	1:C:1416:PRO:CD	2.21	0.75
1:C:1601:GLN:HG3	1:C:1604:LYS:HD2	1.68	0.75
1:A:1445:LEU:O	1:A:1448:VAL:HG22	1.87	0.75
1:C:1358:TRP:CE3	1:C:1377:THR:HG22	2.22	0.75
1:C:1584:GLU:HA	1:C:1587:TRP:CD2	2.20	0.75
2:E:118:ALA:HA	2:E:121:LYS:CE	2.15	0.75
2:E:118:ALA:O	2:E:122:VAL:HG22	1.87	0.75
1:A:1332:MET:CE	1:A:1357:LEU:HD13	2.17	0.75
1:B:1402:GLU:C	1:B:1402:GLU:OE1	2.30	0.75
1:C:1274:LEU:HG	1:C:1302:MET:CG	2.14	0.75
1:A:1250:THR:HB	1:A:1285:GLU:OE1	1.85	0.75
1:B:1403:LEU:HD13	1:B:1403:LEU:O	1.85	0.75
1:C:1412:LEU:HB2	1:C:1419:LEU:HD13	1.69	0.75
2:F:118:ALA:O	2:F:122:VAL:HG22	1.87	0.75
1:A:1292:ASP:O	2:F:96:THR:O	2.04	0.75
1:B:1078:ASN:CG	1:B:1101:ARG:O	2.30	0.75
1:B:1166:GLU:O	1:B:1170:GLU:CG	2.35	0.75
1:B:1472:ILE:HA	1:B:1507:PHE:CE1	2.18	0.75
1:C:1215:LYS:C	1:C:1217:LEU:H	1.93	0.75
1:C:1412:LEU:HD21	1:C:1439:PHE:CE1	2.22	0.75
1:A:1166:GLU:O	1:A:1170:GLU:CG	2.35	0.75
1:A:1358:TRP:HE3	1:A:1377:THR:HG22	1.49	0.75
1:B:1215:LYS:C	1:B:1217:LEU:H	1.93	0.75
1:B:1274:LEU:HA	1:B:1277:VAL:CG2	2.16	0.75
1:B:1412:LEU:HD21	1:B:1439:PHE:CE1	2.22	0.75
1:C:1142:GLN:C	1:C:1142:GLN:OE1	2.30	0.75
1:C:1362:VAL:HG22	1:C:1377:THR:HG21	1.69	0.75
1:C:1445:LEU:O	1:C:1448:VAL:HG22	1.87	0.75
1:A:1142:GLN:OE1	1:A:1142:GLN:C	2.30	0.74
1:A:1159:MET:C	1:A:1163:LYS:NZ	2.45	0.74
1:A:1188:GLU:HA	1:A:1191:ASN:HD22	1.50	0.74
1:B:1290:TYR:HD2	1:B:1299:LEU:HD13	1.02	0.74
1:C:1115:GLN:HG3	1:C:1125:ILE:HG12	1.67	0.74
1:C:1274:LEU:HA	1:C:1277:VAL:CG2	2.16	0.74
1:A:1412:LEU:HD21	1:A:1439:PHE:CE1	2.22	0.74
1:B:1535:LYS:NZ	1:B:1563:ARG:HH12	1.84	0.74
1:B:1596:MET:H	1:B:1597:PRO:CD	1.93	0.74
1:C:1091:ASN:HD21	1:C:1092:LEU:HG	1.49	0.74
1:C:1166:GLU:O	1:C:1170:GLU:CG	2.35	0.74
1:C:1402:GLU:C	1:C:1402:GLU:OE1	2.30	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1535:LYS:NZ	1:C:1563:ARG:HH12	1.84	0.74
1:A:1257:CYS:HA	1:A:1260:CYS:SG	2.27	0.74
1:A:1332:MET:HG3	1:A:1357:LEU:CD1	2.18	0.74
1:A:1521:TRP:O	1:A:1525:VAL:HG12	1.86	0.74
1:B:1274:LEU:HA	1:B:1277:VAL:HG21	1.70	0.74
1:B:1282:GLU:CG	1:B:1283:LEU:H	1.99	0.74
1:C:1602:VAL:O	1:C:1606:TYR:HB2	1.87	0.74
2:E:146:VAL:O	2:E:149:ASN:HB2	1.87	0.74
1:A:1108:TRP:HZ3	1:A:1129:ILE:HG21	1.50	0.74
1:B:1592:MET:HE2	1:B:1592:MET:CA	2.17	0.74
1:B:1409:GLN:O	1:B:1413:GLU:CB	2.30	0.74
1:B:1427:SER:HB3	1:B:1428:PRO:HD3	1.65	0.74
1:B:1554:LEU:HA	1:B:1557:PHE:HD2	1.53	0.74
1:C:1188:GLU:HA	1:C:1191:ASN:HD22	1.50	0.74
1:C:1592:MET:HE2	1:C:1592:MET:CA	2.17	0.74
2:D:118:ALA:O	2:D:122:VAL:HG22	1.87	0.74
1:A:1371:TYR:HB3	1:A:1394:ILE:HG22	1.69	0.74
1:B:1332:MET:CE	1:B:1357:LEU:HD13	2.17	0.74
1:B:1332:MET:HG3	1:B:1357:LEU:CD1	2.18	0.74
1:B:1521:TRP:O	1:B:1525:VAL:HG12	1.87	0.74
1:C:1332:MET:HG3	1:C:1357:LEU:CD1	2.18	0.74
1:A:1354:GLN:O	2:F:108:GLU:OE1	2.05	0.74
1:A:1554:LEU:HA	1:A:1557:PHE:HD2	1.52	0.74
1:B:1142:GLN:C	1:B:1142:GLN:OE1	2.30	0.74
1:B:1358:TRP:HZ2	2:D:112:ARG:NH2	1.86	0.74
1:B:1602:VAL:O	1:B:1606:TYR:HB2	1.87	0.74
1:C:1554:LEU:HA	1:C:1557:PHE:HD2	1.52	0.74
2:D:146:VAL:O	2:D:149:ASN:HB2	1.87	0.74
1:A:1161:ARG:HA	1:A:1165:ARG:HA	1.70	0.74
1:A:1168:TYR:HD1	1:A:1168:TYR:H	1.31	0.74
1:A:1402:GLU:C	1:A:1402:GLU:OE1	2.30	0.74
1:B:1166:GLU:OE1	1:B:1169:VAL:CG2	2.35	0.74
1:B:1274:LEU:HG	1:B:1302:MET:CG	2.14	0.74
1:B:1362:VAL:HG22	1:B:1377:THR:HG21	1.69	0.74
1:A:1362:VAL:HG22	1:A:1377:THR:HG21	1.69	0.74
1:C:1332:MET:CE	1:C:1357:LEU:HD13	2.17	0.74
2:D:118:ALA:HA	2:D:121:LYS:HE3	1.68	0.74
2:F:146:VAL:O	2:F:149:ASN:HB2	1.87	0.74
1:A:1159:MET:O	1:A:1163:LYS:CE	2.33	0.74
1:B:1168:TYR:N	1:B:1168:TYR:CD1	2.56	0.74
1:B:1505:ILE:HD11	2:D:152:ASN:HB3	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1159:MET:HA	1:C:1162:LYS:NZ	2.03	0.74
1:C:1159:MET:C	1:C:1163:LYS:NZ	2.45	0.74
1:C:1257:CYS:HA	1:C:1260:CYS:SG	2.27	0.74
1:C:1387:LYS:CB	1:C:1390:GLN:CB	2.66	0.74
1:A:1168:TYR:CD1	1:A:1168:TYR:N	2.56	0.73
1:A:1496:ALA:HB2	1:A:1514:LEU:HD22	1.70	0.73
1:B:1445:LEU:O	1:B:1448:VAL:HG22	1.87	0.73
1:C:1215:LYS:O	1:C:1217:LEU:N	2.21	0.73
1:C:1282:GLU:CG	1:C:1283:LEU:H	1.99	0.73
2:E:118:ALA:HA	2:E:121:LYS:HE3	1.68	0.73
1:A:1513:TYR:HD1	1:A:1516:LYS:HE2	1.53	0.73
1:B:1258:PHE:O	1:B:1293:ARG:NH1	2.21	0.73
1:C:1274:LEU:HA	1:C:1277:VAL:HG21	1.70	0.73
2:E:108:GLU:OE1	2:E:108:GLU:C	2.31	0.73
2:F:152:ASN:O	2:F:153:ASN:HB2	1.88	0.73
1:B:1513:TYR:HD1	1:B:1516:LYS:HE2	1.53	0.73
1:C:1078:ASN:CG	1:C:1101:ARG:O	2.30	0.73
2:F:183:UNK:O	2:F:187:UNK:N	2.21	0.73
1:A:1417:LEU:O	1:A:1418:LEU:CB	2.34	0.73
1:B:1412:LEU:HB2	1:B:1419:LEU:HD13	1.69	0.73
1:C:1496:ALA:HB2	1:C:1514:LEU:HD22	1.70	0.73
1:C:1504:LEU:HD11	2:E:149:ASN:ND2	1.99	0.73
1:B:1257:CYS:HA	1:B:1260:CYS:SG	2.27	0.73
1:B:1412:LEU:HD12	1:B:1419:LEU:HD21	1.65	0.73
1:C:1161:ARG:HA	1:C:1165:ARG:HA	1.70	0.73
1:C:1513:TYR:HD1	1:C:1516:LYS:HE2	1.53	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:1078:ASN:CG	1:A:1101:ARG:O	2.30	0.73
1:C:1253:TRP:CE3	1:C:1276:ILE:CB	2.72	0.73
1:C:1277:VAL:HG23	1:C:1278:VAL:N	2.00	0.73
1:C:1455:VAL:HG12	1:C:1456:GLN:N	1.98	0.73
1:B:1159:MET:C	1:B:1163:LYS:NZ	2.45	0.73
1:B:1215:LYS:O	1:B:1217:LEU:N	2.21	0.73
1:B:1253:TRP:CE3	1:B:1276:ILE:CB	2.72	0.73
1:C:1554:LEU:HD11	1:C:1568:ALA:HB2	1.71	0.73
1:A:1215:LYS:O	1:A:1217:LEU:N	2.21	0.73
1:A:1602:VAL:O	1:A:1606:TYR:HB2	1.87	0.73
1:B:1417:LEU:O	1:B:1418:LEU:CB	2.33	0.73
1:B:1514:LEU:HD23	1:B:1514:LEU:C	2.14	0.73
1:C:1371:TYR:HB3	1:C:1394:ILE:HG22	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:152:ASN:O	2:D:153:ASN:HB2	1.88	0.73
2:E:134:ASP:O	2:E:137:GLU:HB2	1.89	0.73
2:E:192:UNK:O	2:E:193:UNK:C	2.35	0.73
1:A:1554:LEU:HD11	1:A:1568:ALA:HB2	1.71	0.73
1:B:1282:GLU:O	1:B:1283:LEU:CB	2.37	0.73
1:C:1166:GLU:OE1	1:C:1169:VAL:CG2	2.35	0.73
1:A:1258:PHE:O	1:A:1293:ARG:NH1	2.21	0.73
1:A:1481:ARG:NH1	1:A:1510:ILE:HG12	2.04	0.73
1:B:1371:TYR:HB3	1:B:1394:ILE:HG22	1.69	0.73
1:C:1481:ARG:NH1	1:C:1510:ILE:HG12	2.04	0.73
1:B:1326:LYS:HG3	2:D:104:LYS:HB3	1.70	0.72
1:B:1602:VAL:CG2	2:D:205:UNK:C	2.67	0.72
1:A:1108:TRP:CE3	1:A:1129:ILE:HB	2.24	0.72
1:A:1416:PRO:HG3	2:F:130:LYS:CG	1.98	0.72
1:C:1602:VAL:HG22	2:E:203:UNK:HA	1.70	0.72
1:A:1191:ASN:C	1:A:1193:PRO:HD2	2.14	0.72
1:A:1253:TRP:CE3	1:A:1276:ILE:CB	2.72	0.72
1:A:1412:LEU:HB2	1:A:1419:LEU:HD13	1.69	0.72
1:A:1580:ASP:OD2	1:C:1605:GLU:CG	2.36	0.72
1:A:1166:GLU:OE1	1:A:1169:VAL:CG2	2.35	0.72
1:A:1324:TYR:HD2	1:A:1332:MET:HA	1.55	0.72
1:A:1474:GLU:O	2:F:145:GLN:CD	2.33	0.72
1:B:1122:LYS:HZ1	1:B:1147:SER:CB	2.00	0.72
1:B:1149:ASN:O	1:B:1153:LEU:CB	2.38	0.72
1:B:1414:PHE:O	1:B:1416:PRO:CD	2.21	0.72
1:C:1258:PHE:O	1:C:1293:ARG:NH1	2.21	0.72
1:C:1425:VAL:HG23	1:C:1426:LEU:N	2.04	0.72
1:C:1514:LEU:HD23	1:C:1514:LEU:C	2.14	0.72
1:A:1167:SER:C	1:A:1171:THR:CB	2.57	0.72
1:A:1425:VAL:HG23	1:A:1426:LEU:N	2.04	0.72
1:B:1411:TYR:O	1:B:1415:LYS:O	2.07	0.72
1:C:1132:ASP:CG	1:C:1133:ASP:H	1.97	0.72
1:C:1167:SER:HB2	1:C:1197:HIS:N	2.05	0.72
1:C:1191:ASN:C	1:C:1193:PRO:HD2	2.15	0.72
1:C:1324:TYR:HD2	1:C:1332:MET:HA	1.54	0.72
2:D:127:TRP:CD1	2:D:128:ARG:HG3	2.24	0.72
1:A:1159:MET:HA	1:A:1162:LYS:NZ	2.03	0.72
1:B:1277:VAL:HG21	1:B:1302:MET:HE2	1.72	0.72
1:B:1358:TRP:CE3	1:B:1377:THR:HG22	2.22	0.72
1:B:1387:LYS:CB	1:B:1390:GLN:CB	2.66	0.72
1:B:1481:ARG:NH1	1:B:1510:ILE:HG12	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1496:ALA:HB2	1:B:1514:LEU:HD22	1.70	0.72
1:B:1554:LEU:HD11	1:B:1568:ALA:HB2	1.71	0.72
1:C:1168:TYR:CD1	1:C:1168:TYR:N	2.56	0.72
1:A:1150:TRP:O	1:A:1153:LEU:N	2.23	0.72
1:A:1327:PHE:CB	2:F:104:LYS:NZ	2.53	0.72
1:A:1414:PHE:CZ	2:F:127:TRP:CE2	2.78	0.72
1:A:1475:GLU:OE2	2:F:146:VAL:N	2.01	0.72
2:E:127:TRP:CD1	2:E:128:ARG:HG3	2.25	0.72
1:A:1358:TRP:CD1	2:F:115:GLU:CG	2.72	0.72
1:A:1368:TYR:CD1	1:A:1370:GLU:CG	2.73	0.72
1:B:1122:LYS:HE2	1:B:1147:SER:OG	1.90	0.72
1:B:1330:GLN:HG3	1:B:1331:LYS:H	1.54	0.72
1:C:1122:LYS:HE2	1:C:1147:SER:OG	1.89	0.72
2:F:106:ARG:HA	2:F:106:ARG:HH21	1.55	0.72
1:A:1274:LEU:HA	1:A:1277:VAL:HG21	1.70	0.72
1:A:1395:ILE:CG1	1:A:1404:TYR:CD2	2.72	0.72
1:B:1132:ASP:CG	1:B:1133:ASP:H	1.97	0.72
1:B:1159:MET:HA	1:B:1162:LYS:NZ	2.03	0.72
1:C:1266:PHE:HB2	1:C:1268:LEU:HG	1.72	0.72
1:C:1330:GLN:HG3	1:C:1331:LYS:H	1.54	0.72
1:B:1108:TRP:HZ3	1:B:1129:ILE:HG21	1.50	0.72
1:B:1253:TRP:C	1:B:1255:GLU:N	2.46	0.72
1:C:1104:GLU:HB3	1:C:1128:TYR:O	1.90	0.72
1:C:1108:TRP:CE2	1:C:1129:ILE:HB	2.25	0.72
1:C:1122:LYS:HE3	1:C:1147:SER:CB	2.20	0.72
1:C:1150:TRP:O	1:C:1153:LEU:N	2.23	0.72
1:C:1411:TYR:O	1:C:1415:LYS:O	2.08	0.72
1:C:1468:ASN:O	1:C:1472:ILE:HG13	1.90	0.72
1:C:1108:TRP:CE3	1:C:1129:ILE:HB	2.24	0.71
1:C:1368:TYR:CD1	1:C:1370:GLU:CG	2.73	0.71
2:D:106:ARG:HH21	2:D:106:ARG:HA	1.55	0.71
1:A:1257:CYS:HB3	1:A:1289:TYR:OH	1.90	0.71
1:A:1266:PHE:HB2	1:A:1268:LEU:HG	1.72	0.71
1:A:1468:ASN:O	1:A:1472:ILE:HG13	1.90	0.71
1:B:1108:TRP:CE3	1:B:1129:ILE:HB	2.24	0.71
1:B:1161:ARG:HA	1:B:1165:ARG:HA	1.70	0.71
1:B:1257:CYS:HB3	1:B:1289:TYR:OH	1.90	0.71
1:B:1324:TYR:HD2	1:B:1332:MET:HA	1.54	0.71
1:B:1368:TYR:CD1	1:B:1370:GLU:CG	2.73	0.71
1:B:1384:ASP:HB2	2:D:115:GLU:OE2	1.90	0.71
1:B:1425:VAL:HG23	1:B:1426:LEU:N	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1463:VAL:HG12	1:B:1467:LEU:HD22	1.72	0.71
2:D:129:GLU:HB2	2:D:132:LYS:HZ2	1.54	0.71
1:A:1358:TRP:CE3	1:A:1377:THR:HG22	2.22	0.71
1:A:1362:VAL:CG2	1:A:1377:THR:HG21	2.20	0.71
1:B:1254:LYS:HA	1:B:1289:TYR:CD2	2.25	0.71
1:B:1468:ASN:O	1:B:1472:ILE:HG13	1.90	0.71
1:A:1357:LEU:CD2	2:F:111:LYS:HZ1	2.04	0.71
1:B:1150:TRP:O	1:B:1153:LEU:N	2.23	0.71
1:C:1282:GLU:O	1:C:1283:LEU:CB	2.37	0.71
2:E:90:ALA:H	2:E:91:GLN:HA	1.55	0.71
2:F:127:TRP:CD1	2:F:128:ARG:HG3	2.25	0.71
1:A:1167:SER:HA	1:A:1171:THR:H	1.55	0.71
1:A:1254:LYS:HA	1:A:1289:TYR:CD2	2.25	0.71
1:A:1257:CYS:N	1:A:1289:TYR:OH	2.24	0.71
1:A:1358:TRP:CH2	1:A:1381:HIS:HE1	2.02	0.71
1:B:1104:GLU:HB3	1:B:1128:TYR:O	1.90	0.71
1:B:1167:SER:HB2	1:B:1197:HIS:N	2.05	0.71
1:B:1362:VAL:CG2	1:B:1377:THR:HG21	2.20	0.71
1:C:1149:ASN:O	1:C:1153:LEU:CB	2.38	0.71
1:C:1159:MET:O	1:C:1163:LYS:CE	2.33	0.71
1:C:1167:SER:HA	1:C:1171:THR:H	1.55	0.71
1:A:1122:LYS:HE3	1:A:1147:SER:CB	2.20	0.71
1:A:1132:ASP:CG	1:A:1133:ASP:H	1.98	0.71
1:A:1514:LEU:HD23	1:A:1514:LEU:C	2.14	0.71
1:A:1586:ALA:CB	1:A:1590:ASN:ND2	2.48	0.71
1:B:1381:HIS:HA	2:D:115:GLU:CG	2.19	0.71
1:C:1257:CYS:HB3	1:C:1289:TYR:OH	1.90	0.71
2:E:119:ALA:C	2:E:123:MET:HG2	2.14	0.71
2:F:194:UNK:C	2:F:197:UNK:CB	2.68	0.71
1:A:1149:ASN:O	1:A:1153:LEU:CB	2.38	0.71
1:A:1282:GLU:O	1:A:1283:LEU:CB	2.37	0.71
1:A:1411:TYR:O	1:A:1415:LYS:O	2.08	0.71
1:B:1191:ASN:C	1:B:1193:PRO:HD2	2.15	0.71
1:A:1122:LYS:HE2	1:A:1147:SER:OG	1.89	0.71
2:E:118:ALA:HA	2:E:121:LYS:NZ	2.06	0.71
2:F:134:ASP:O	2:F:137:GLU:HB2	1.90	0.71
1:A:1356:HIS:NE2	2:F:112:ARG:CG	2.48	0.71
1:A:1591:ILE:CG2	1:A:1592:MET:H	1.98	0.71
1:B:1130:LYS:HB2	1:B:1156:TYR:HE1	1.56	0.71
1:B:1466:SER:O	1:B:1470:LEU:HG	1.91	0.71
1:A:1104:GLU:HB3	1:A:1128:TYR:O	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1167:SER:O	1:A:1171:THR:N	2.24	0.71
1:A:1479:ALA:O	1:A:1483:SER:N	2.23	0.71
1:B:1108:TRP:CE2	1:B:1129:ILE:HB	2.25	0.71
1:B:1277:VAL:O	1:B:1278:VAL:C	2.33	0.71
1:A:1463:VAL:HG12	1:A:1467:LEU:HD22	1.72	0.70
1:A:1466:SER:O	1:A:1470:LEU:HG	1.91	0.70
1:B:1479:ALA:O	1:B:1483:SER:N	2.23	0.70
1:C:1254:LYS:HA	1:C:1289:TYR:CD2	2.25	0.70
1:C:1358:TRP:HE3	1:C:1377:THR:HG22	1.49	0.70
1:C:1362:VAL:CG2	1:C:1377:THR:HG21	2.20	0.70
2:F:118:ALA:HA	2:F:121:LYS:NZ	2.06	0.70
1:A:1277:VAL:HG21	1:A:1302:MET:HE2	1.72	0.70
1:B:1167:SER:HA	1:B:1171:THR:H	1.55	0.70
1:C:1479:ALA:O	1:C:1483:SER:N	2.23	0.70
2:F:191:UNK:O	2:F:192:UNK:C	2.39	0.70
2:F:194:UNK:C	2:F:197:UNK:HA	2.20	0.70
1:A:1327:PHE:HE1	2:F:104:LYS:CA	2.04	0.70
1:B:1266:PHE:HB2	1:B:1268:LEU:HG	1.72	0.70
1:C:1279:HIS:HE1	1:C:1286:LEU:CD2	1.97	0.70
1:A:1597:PRO:HB3	1:A:1601:GLN:HE22	1.56	0.70
1:C:1167:SER:O	1:C:1171:THR:N	2.24	0.70
1:C:1592:MET:CE	1:C:1592:MET:C	2.64	0.70
1:C:1615:ALA:O	1:C:1619:LEU:HD23	1.92	0.70
2:E:112:ARG:O	2:E:113:LEU:C	2.32	0.70
2:F:200:UNK:C	2:F:202:UNK:H	2.01	0.70
1:A:1277:VAL:O	1:A:1278:VAL:C	2.33	0.70
1:A:1563:ARG:HH22	2:F:181:UNK:C	2.04	0.70
1:B:1395:ILE:CG1	1:B:1404:TYR:CD2	2.73	0.70
1:C:1168:TYR:HA	1:C:1172:GLU:OE2	1.92	0.70
1:A:1122:LYS:O	1:A:1126:ASP:CB	2.40	0.70
1:A:1414:PHE:HB3	2:F:127:TRP:N	2.02	0.70
1:A:1615:ALA:O	1:A:1619:LEU:HD23	1.92	0.70
1:C:1108:TRP:HZ3	1:C:1129:ILE:HG21	1.50	0.70
1:C:1167:SER:C	1:C:1171:THR:CB	2.57	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:1330:GLN:HG3	1:A:1331:LYS:H	1.54	0.70
1:A:1496:ALA:HB3	1:A:1515:PHE:CZ	2.27	0.70
1:B:1167:SER:O	1:B:1171:THR:N	2.24	0.70
1:C:1412:LEU:N	1:C:1419:LEU:HD13	2.07	0.70
1:C:1597:PRO:HB3	1:C:1601:GLN:HE22	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:112:ARG:O	2:F:113:LEU:C	2.32	0.70
1:A:1108:TRP:CE2	1:A:1129:ILE:HB	2.25	0.70
1:A:1357:LEU:CD2	2:F:111:LYS:NZ	2.54	0.70
1:A:1409:GLN:O	1:A:1413:GLU:CB	2.30	0.70
1:A:1620:ARG:HH11	1:A:1620:ARG:HG3	1.56	0.70
1:C:1253:TRP:C	1:C:1255:GLU:N	2.46	0.70
1:C:1277:VAL:O	1:C:1278:VAL:C	2.33	0.70
1:C:1563:ARG:NH2	2:E:181:UNK:CB	2.55	0.70
2:E:180:UNK:O	2:E:181:UNK:C	2.40	0.70
2:F:98:GLU:HB2	2:F:99:PRO:HD3	1.74	0.70
1:A:1104:GLU:CB	1:A:1129:ILE:HA	2.22	0.70
1:A:1166:GLU:CG	1:A:1168:TYR:CE1	2.74	0.70
1:B:1211:TYR:HB2	1:B:1231:LEU:HD11	1.73	0.70
1:B:1232:VAL:HG22	1:B:1233:HIS:N	2.06	0.70
1:B:1317:PHE:HD2	1:B:1317:PHE:N	1.90	0.70
1:C:1108:TRP:CZ2	1:C:1129:ILE:CB	2.51	0.70
1:A:1232:VAL:HG22	1:A:1233:HIS:N	2.06	0.70
1:A:1371:TYR:CD1	1:A:1394:ILE:HG22	2.27	0.70
1:A:1387:LYS:CB	1:A:1390:GLN:CB	2.66	0.70
1:A:1475:GLU:CG	2:F:149:ASN:OD1	2.30	0.70
1:A:1563:ARG:HH21	2:F:182:UNK:H	1.33	0.70
1:C:1382:PRO:HG3	1:C:1410:PHE:HE1	1.57	0.70
1:C:1463:VAL:HG12	1:C:1467:LEU:HD22	1.72	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:1412:LEU:N	1:A:1419:LEU:HD13	2.07	0.69
1:B:1104:GLU:CB	1:B:1129:ILE:HA	2.22	0.69
1:B:1166:GLU:CG	1:B:1168:TYR:CE1	2.74	0.69
1:B:1494:SER:HA	1:B:1497:GLN:CG	2.22	0.69
1:B:1521:TRP:CZ3	1:B:1522:LYS:HD2	2.27	0.69
1:B:1620:ARG:HH11	1:B:1620:ARG:HG3	1.56	0.69
1:C:1122:LYS:O	1:C:1126:ASP:CB	2.40	0.69
1:C:1130:LYS:HB2	1:C:1156:TYR:HE1	1.56	0.69
1:A:1521:TRP:CZ3	1:A:1522:LYS:HD2	2.27	0.69
1:B:1448:VAL:HB	1:B:1451:TYR:HD2	1.57	0.69
1:C:1104:GLU:CB	1:C:1129:ILE:HA	2.22	0.69
2:F:129:GLU:HB2	2:F:132:LYS:HZ2	1.55	0.69
1:B:1257:CYS:N	1:B:1289:TYR:OH	2.24	0.69
1:B:1597:PRO:HB3	1:B:1601:GLN:HE22	1.56	0.69
1:C:1317:PHE:HD2	1:C:1317:PHE:N	1.90	0.69
2:F:195:UNK:C	2:F:197:UNK:H2	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1448:VAL:HB	1:A:1451:TYR:HD2	1.57	0.69
1:A:1455:VAL:HG12	1:A:1456:GLN:N	1.98	0.69
1:B:1168:TYR:HA	1:B:1172:GLU:OE2	1.92	0.69
1:C:1277:VAL:HG21	1:C:1302:MET:HE2	1.72	0.69
2:D:174:UNK:N	2:D:176:UNK:N	2.41	0.69
1:A:1263:GLY:O	1:A:1264:LYS:HB3	1.93	0.69
1:A:1382:PRO:HG3	1:A:1410:PHE:HE1	1.57	0.69
1:B:1412:LEU:N	1:B:1419:LEU:HD13	2.07	0.69
1:C:1166:GLU:CG	1:C:1168:TYR:CE1	2.74	0.69
1:C:1257:CYS:N	1:C:1289:TYR:OH	2.24	0.69
1:C:1466:SER:O	1:C:1470:LEU:HG	1.91	0.69
1:C:1496:ALA:HB3	1:C:1515:PHE:CZ	2.27	0.69
1:B:1303:LEU:O	1:B:1307:LEU:HD13	1.92	0.69
1:C:1303:LEU:O	1:C:1307:LEU:HD13	1.92	0.69
1:C:1377:THR:HA	1:C:1381:HIS:HD2	1.56	0.69
1:C:1482:THR:HA	1:C:1485:ASP:OD2	1.93	0.69
1:C:1494:SER:HA	1:C:1497:GLN:CG	2.22	0.69
2:D:127:TRP:HA	2:D:130:LYS:CE	2.23	0.69
1:B:1122:LYS:O	1:B:1126:ASP:CB	2.40	0.69
1:B:1496:ALA:HB3	1:B:1515:PHE:CZ	2.27	0.69
1:A:1130:LYS:HB2	1:A:1156:TYR:HE1	1.56	0.69
1:A:1165:ARG:NH2	1:A:1194:ASN:ND2	2.40	0.69
1:A:1171:THR:OG1	1:A:1196:ALA:HB1	1.93	0.69
1:A:1537:ALA:HA	1:A:1540:TYR:CZ	2.27	0.69
1:B:1167:SER:HB2	1:B:1197:HIS:H	1.58	0.69
1:B:1386:TRP:CZ2	1:B:1388:GLU:HA	2.27	0.69
2:E:127:TRP:HA	2:E:130:LYS:CE	2.23	0.69
1:A:1386:TRP:CZ2	1:A:1388:GLU:HA	2.27	0.69
1:A:1408:ILE:HG23	1:A:1412:LEU:CB	2.22	0.69
1:B:1108:TRP:CE3	1:B:1108:TRP:HA	2.28	0.69
1:C:1107:VAL:CG1	1:C:1111:LEU:HB2	2.23	0.69
1:A:1166:GLU:HA	1:A:1170:GLU:OE2	1.93	0.69
1:A:1211:TYR:HB2	1:A:1231:LEU:HD11	1.73	0.69
1:A:1563:ARG:HH22	2:F:181:UNK:CA	2.06	0.69
1:B:1358:TRP:CZ2	2:D:112:ARG:NH2	2.61	0.69
1:B:1409:GLN:CB	1:B:1413:GLU:HG2	2.20	0.69
1:C:1166:GLU:H	1:C:1170:GLU:HB3	1.58	0.69
1:C:1263:GLY:O	1:C:1264:LYS:HB3	1.93	0.69
1:C:1620:ARG:HH11	1:C:1620:ARG:HG3	1.56	0.69
1:A:1303:LEU:O	1:A:1307:LEU:HD13	1.92	0.68
1:B:1108:TRP:HB3	1:B:1134:PRO:HA	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1166:GLU:HA	1:B:1170:GLU:OE2	1.93	0.68
1:B:1377:THR:HA	1:B:1381:HIS:HD2	1.56	0.68
1:C:1165:ARG:NH2	1:C:1194:ASN:ND2	2.40	0.68
1:C:1166:GLU:HA	1:C:1170:GLU:OE2	1.93	0.68
1:C:1349:LEU:HA	1:C:1352:ALA:HB3	1.75	0.68
1:C:1537:ALA:HA	1:C:1540:TYR:CZ	2.27	0.68
2:D:189:UNK:O	2:D:190:UNK:C	2.40	0.68
1:A:1108:TRP:CE3	1:A:1108:TRP:HA	2.28	0.68
1:A:1168:TYR:HA	1:A:1172:GLU:OE2	1.92	0.68
1:A:1188:GLU:C	1:A:1190:ILE:H	2.01	0.68
1:A:1494:SER:HA	1:A:1497:GLN:CG	2.22	0.68
1:B:1358:TRP:HA	1:B:1361:LEU:HB3	1.75	0.68
1:B:1615:ALA:O	1:B:1619:LEU:HD23	1.92	0.68
1:A:1358:TRP:HA	1:A:1361:LEU:HB3	1.75	0.68
1:A:1377:THR:HA	1:A:1381:HIS:HD2	1.56	0.68
1:B:1122:LYS:HE3	1:B:1147:SER:CB	2.20	0.68
2:E:110:ARG:CZ	2:E:110:ARG:HB2	2.24	0.68
1:A:1333:ARG:CB	1:A:1360:GLU:CG	2.72	0.68
1:A:1349:LEU:HA	1:A:1352:ALA:HB3	1.75	0.68
1:B:1597:PRO:O	1:C:1584:GLU:CD	2.36	0.68
1:C:1188:GLU:OE2	1:C:1191:ASN:HB2	1.93	0.68
1:C:1211:TYR:HB2	1:C:1231:LEU:HD11	1.73	0.68
1:C:1218:TYR:HE2	1:C:1227:LEU:HB2	1.59	0.68
1:C:1578:ARG:CZ	1:C:1583:LEU:CD2	2.68	0.68
1:B:1162:LYS:NZ	1:B:1163:LYS:NZ	2.42	0.68
1:C:1409:GLN:C	1:C:1413:GLU:HB2	2.18	0.68
1:C:1521:TRP:CZ3	1:C:1522:LYS:HD2	2.27	0.68
2:E:110:ARG:HB2	2:E:110:ARG:NH2	2.09	0.68
2:F:126:GLU:HG3	2:F:130:LYS:HZ1	1.57	0.68
1:A:1083:GLN:CD	1:A:1105:PRO:O	2.37	0.68
1:A:1161:ARG:NH1	1:A:1193:PRO:HA	2.08	0.68
1:A:1188:GLU:OE2	1:A:1191:ASN:HB2	1.93	0.68
1:B:1161:ARG:NH2	1:B:1170:GLU:HG3	2.08	0.68
1:B:1292:ASP:CB	2:D:97:GLN:CD	2.66	0.68
1:C:1333:ARG:CB	1:C:1360:GLU:CG	2.72	0.68
2:E:90:ALA:HB3	2:E:91:GLN:HA	1.75	0.68
1:A:1108:TRP:HB3	1:A:1134:PRO:HA	1.75	0.68
1:A:1145:ASN:HD21	1:A:1150:TRP:HE1	1.42	0.68
1:A:1409:GLN:CB	1:A:1413:GLU:HG2	2.20	0.68
1:A:1414:PHE:HB3	2:F:130:LYS:CE	2.23	0.68
1:A:1414:PHE:CB	2:F:130:LYS:CE	2.72	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1482:THR:HA	1:A:1485:ASP:OD2	1.92	0.68
1:A:1602:VAL:HG11	2:F:202:UNK:O	1.94	0.68
1:B:1171:THR:OG1	1:B:1196:ALA:HB1	1.93	0.68
1:B:1279:HIS:HD2	1:B:1282:GLU:C	2.02	0.68
1:B:1382:PRO:HG3	1:B:1410:PHE:HE1	1.57	0.68
1:B:1482:THR:HA	1:B:1485:ASP:OD2	1.92	0.68
1:B:1537:ALA:HA	1:B:1540:TYR:CZ	2.28	0.68
1:C:1358:TRP:HA	1:C:1361:LEU:HB3	1.75	0.68
2:F:195:UNK:O	2:F:196:UNK:C	2.38	0.68
1:B:1326:LYS:HZ3	1:B:1354:GLN:HG2	1.58	0.68
1:C:1188:GLU:C	1:C:1190:ILE:H	2.01	0.68
1:C:1386:TRP:CZ2	1:C:1388:GLU:HA	2.27	0.68
1:C:1592:MET:SD	1:C:1593:ASP:OD1	2.52	0.68
2:E:100:GLU:OE2	2:E:103:ARG:HD2	1.94	0.68
1:A:1107:VAL:CG1	1:A:1111:LEU:HB2	2.23	0.68
1:A:1414:PHE:CB	2:F:130:LYS:HZ2	2.05	0.68
1:A:1563:ARG:HH22	2:F:181:UNK:HA	1.59	0.68
1:C:1584:GLU:HA	1:C:1587:TRP:CE2	2.29	0.68
1:C:1600:ILE:O	1:C:1604:LYS:HG3	1.94	0.68
2:F:110:ARG:CZ	2:F:110:ARG:HB2	2.24	0.68
1:A:1592:MET:SD	1:A:1593:ASP:OD1	2.52	0.68
1:C:1108:TRP:HA	1:C:1108:TRP:HE3	1.59	0.68
1:C:1161:ARG:NH2	1:C:1170:GLU:HG3	2.08	0.68
1:C:1259:ALA:HA	1:C:1293:ARG:NH2	2.09	0.68
1:C:1371:TYR:CD1	1:C:1394:ILE:HG22	2.27	0.68
1:C:1527:LEU:HD21	1:C:1540:TYR:OH	1.94	0.68
1:A:1162:LYS:NZ	1:A:1163:LYS:NZ	2.42	0.67
1:A:1259:ALA:HA	1:A:1293:ARG:NH2	2.09	0.67
1:A:1326:LYS:HZ3	1:A:1354:GLN:HG2	1.59	0.67
1:A:1327:PHE:O	1:A:1329:PRO:HD3	1.94	0.67
1:A:1358:TRP:CE2	1:A:1381:HIS:ND1	2.62	0.67
1:B:1259:ALA:HA	1:B:1293:ARG:NH2	2.09	0.67
1:B:1535:LYS:HZ3	1:B:1563:ARG:HH12	1.42	0.67
1:C:1108:TRP:HB3	1:C:1134:PRO:HA	1.75	0.67
1:C:1171:THR:OG1	1:C:1196:ALA:HB1	1.93	0.67
1:C:1372:ASP:OD1	1:C:1373:ASN:N	2.27	0.67
1:C:1596:MET:O	1:C:1597:PRO:O	2.12	0.67
1:A:1079:THR:CG2	1:A:1105:PRO:CD	2.67	0.67
1:A:1317:PHE:HD2	1:A:1317:PHE:N	1.90	0.67
1:B:1161:ARG:NH1	1:B:1193:PRO:HA	2.08	0.67
1:B:1333:ARG:CB	1:B:1360:GLU:CG	2.72	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1349:LEU:HA	1:B:1352:ALA:HB3	1.75	0.67
1:B:1372:ASP:OD1	1:B:1373:ASN:N	2.27	0.67
1:C:1083:GLN:CD	1:C:1105:PRO:O	2.37	0.67
1:C:1279:HIS:CG	1:C:1282:GLU:CB	2.66	0.67
1:C:1408:ILE:HG22	1:C:1412:LEU:HD23	1.77	0.67
2:E:129:GLU:HB2	2:E:132:LYS:HZ2	1.58	0.67
1:A:1447:LEU:O	1:A:1450:PRO:HD2	1.95	0.67
1:A:1598:TYR:CE1	1:B:1588:ARG:HB2	2.29	0.67
1:A:1598:TYR:CG	1:B:1584:GLU:OE2	2.47	0.67
1:A:1600:ILE:O	1:A:1604:LYS:HG3	1.94	0.67
1:B:1188:GLU:OE2	1:B:1191:ASN:HB2	1.93	0.67
1:B:1592:MET:SD	1:B:1593:ASP:OD1	2.52	0.67
1:C:1327:PHE:O	1:C:1329:PRO:HD3	1.94	0.67
1:C:1411:TYR:O	1:C:1415:LYS:C	2.37	0.67
1:C:1420:ASN:HA	1:C:1423:LEU:HG	1.76	0.67
2:F:119:ALA:C	2:F:123:MET:HG2	2.17	0.67
1:A:1091:ASN:ND2	1:A:1091:ASN:C	2.52	0.67
1:A:1108:TRP:CZ3	1:A:1129:ILE:CD1	2.78	0.67
1:A:1257:CYS:SG	1:A:1269:ALA:HB1	2.35	0.67
1:A:1264:LYS:NZ	1:A:1268:LEU:HD13	2.09	0.67
1:A:1279:HIS:HD2	1:A:1282:GLU:C	2.02	0.67
1:A:1527:LEU:HD21	1:A:1540:TYR:OH	1.94	0.67
1:A:1584:GLU:HA	1:A:1587:TRP:CE2	2.29	0.67
1:B:1107:VAL:CG1	1:B:1111:LEU:HB2	2.23	0.67
1:B:1166:GLU:H	1:B:1170:GLU:HB3	1.58	0.67
1:B:1411:TYR:O	1:B:1415:LYS:C	2.37	0.67
1:B:1420:ASN:HA	1:B:1423:LEU:HG	1.76	0.67
1:B:1602:VAL:HG22	2:D:205:UNK:C	2.24	0.67
1:C:1108:TRP:CE3	1:C:1108:TRP:HA	2.28	0.67
1:C:1161:ARG:NH1	1:C:1193:PRO:HA	2.08	0.67
2:F:110:ARG:HB2	2:F:110:ARG:NH2	2.09	0.67
1:A:1332:MET:SD	1:A:1360:GLU:CG	2.83	0.67
1:B:1166:GLU:C	1:B:1170:GLU:HG2	2.19	0.67
1:B:1188:GLU:C	1:B:1190:ILE:H	2.01	0.67
1:B:1409:GLN:C	1:B:1413:GLU:HB2	2.18	0.67
1:C:1161:ARG:NE	1:C:1170:GLU:HB2	2.09	0.67
1:C:1161:ARG:NH2	1:C:1170:GLU:OE1	2.28	0.67
1:C:1162:LYS:NZ	1:C:1163:LYS:NZ	2.42	0.67
1:C:1264:LYS:NZ	1:C:1268:LEU:HD13	2.09	0.67
2:D:133:LYS:HA	2:D:133:LYS:HZ1	1.59	0.67
1:A:1327:PHE:CZ	2:F:104:LYS:HB3	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1165:ARG:NH2	1:B:1194:ASN:ND2	2.40	0.67
1:B:1327:PHE:O	1:B:1329:PRO:HD3	1.94	0.67
1:B:1408:ILE:HG22	1:B:1412:LEU:HD23	1.76	0.67
1:B:1578:ARG:HD3	1:B:1582:VAL:HB	1.77	0.67
1:C:1358:TRP:CE2	1:C:1381:HIS:ND1	2.63	0.67
2:F:127:TRP:HA	2:F:130:LYS:CE	2.23	0.67
1:B:1132:ASP:CG	1:B:1133:ASP:N	2.53	0.67
1:B:1263:GLY:O	1:B:1264:LYS:HB3	1.93	0.67
1:B:1362:VAL:CG2	1:B:1377:THR:CG2	2.73	0.67
1:C:1167:SER:HB2	1:C:1197:HIS:H	1.58	0.67
1:C:1232:VAL:HG22	1:C:1233:HIS:N	2.06	0.67
1:C:1409:GLN:HA	1:C:1413:GLU:HG2	0.75	0.67
2:E:181:UNK:O	2:E:183:UNK:N	2.28	0.67
1:A:1261:VAL:CG2	1:A:1295:TYR:CE2	2.77	0.67
1:B:1108:TRP:CZ3	1:B:1129:ILE:CD1	2.78	0.67
1:B:1218:TYR:HE2	1:B:1227:LEU:HB2	1.59	0.67
1:B:1257:CYS:SG	1:B:1269:ALA:HB1	2.34	0.67
1:B:1261:VAL:HG13	1:B:1295:TYR:CZ	2.30	0.67
1:B:1358:TRP:CE2	1:B:1381:HIS:ND1	2.62	0.67
1:C:1448:VAL:HB	1:C:1451:TYR:HD2	1.57	0.67
1:A:1164:ALA:O	1:A:1165:ARG:C	2.38	0.67
1:A:1378:MET:HE1	1:A:1394:ILE:HD12	1.77	0.67
1:A:1414:PHE:CA	2:F:127:TRP:HA	2.21	0.67
1:B:1108:TRP:HA	1:B:1108:TRP:HE3	1.59	0.67
1:B:1161:ARG:NH2	1:B:1170:GLU:OE1	2.28	0.67
1:B:1596:MET:O	1:B:1597:PRO:O	2.12	0.67
1:C:1261:VAL:HG13	1:C:1295:TYR:CZ	2.30	0.67
2:D:110:ARG:HB2	2:D:110:ARG:CZ	2.23	0.67
2:E:104:LYS:O	2:E:108:GLU:HB3	1.92	0.67
1:A:1218:TYR:HE2	1:A:1227:LEU:HB2	1.59	0.67
1:A:1408:ILE:HG22	1:A:1412:LEU:HD23	1.77	0.67
1:B:1083:GLN:CD	1:B:1105:PRO:O	2.37	0.67
1:B:1371:TYR:CD1	1:B:1394:ILE:HG22	2.27	0.67
1:B:1408:ILE:HG22	1:B:1412:LEU:CD2	2.25	0.67
1:C:1122:LYS:HZ1	1:C:1147:SER:HG	1.39	0.67
1:C:1257:CYS:SG	1:C:1269:ALA:HB1	2.35	0.67
1:C:1332:MET:SD	1:C:1360:GLU:CG	2.83	0.67
1:C:1362:VAL:CG2	1:C:1377:THR:HB	2.25	0.67
1:C:1617:GLU:HG2	1:C:1621:LYS:HZ3	1.58	0.67
2:D:110:ARG:HB2	2:D:110:ARG:NH2	2.09	0.67
2:E:89:ILE:N	2:E:90:ALA:HA	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1166:GLU:C	1:A:1170:GLU:HG2	2.19	0.66
1:A:1411:TYR:O	1:A:1415:LYS:C	2.37	0.66
1:B:1145:ASN:HD21	1:B:1150:TRP:HE1	1.42	0.66
1:B:1154:VAL:HG11	1:B:1180:THR:OG1	1.96	0.66
1:C:1215:LYS:C	1:C:1217:LEU:N	2.52	0.66
1:C:1326:LYS:HZ3	1:C:1354:GLN:HG2	1.59	0.66
2:E:134:ASP:O	2:E:137:GLU:CB	2.43	0.66
1:A:1358:TRP:NE1	2:F:115:GLU:CG	2.51	0.66
1:B:1509:ARG:CZ	2:D:166:ALA:N	2.52	0.66
1:A:1108:TRP:CE2	1:A:1129:ILE:O	2.48	0.66
1:A:1161:ARG:NH2	1:A:1170:GLU:HG3	2.09	0.66
1:A:1257:CYS:HB3	1:A:1289:TYR:CE1	2.31	0.66
1:B:1261:VAL:CG2	1:B:1295:TYR:CE2	2.77	0.66
1:B:1395:ILE:CG1	1:B:1404:TYR:HE2	2.02	0.66
1:B:1584:GLU:HA	1:B:1587:TRP:CE2	2.29	0.66
1:B:1592:MET:CE	1:B:1592:MET:C	2.64	0.66
1:C:1108:TRP:CZ3	1:C:1129:ILE:CD1	2.78	0.66
1:C:1132:ASP:CG	1:C:1133:ASP:N	2.53	0.66
2:D:103:ARG:NH1	2:D:106:ARG:HG3	2.11	0.66
2:F:154:ARG:NH1	2:F:154:ARG:HB3	2.11	0.66
1:A:1234:LEU:CG	1:A:1235:GLY:H	2.09	0.66
1:A:1372:ASP:OD1	1:A:1373:ASN:N	2.28	0.66
1:B:1164:ALA:O	1:B:1165:ARG:C	2.38	0.66
1:C:1362:VAL:CG2	1:C:1377:THR:CG2	2.73	0.66
1:C:1395:ILE:CG1	1:C:1404:TYR:CD2	2.73	0.66
1:C:1408:ILE:HG22	1:C:1412:LEU:CD2	2.25	0.66
2:D:112:ARG:C	2:D:113:LEU:O	2.37	0.66
1:B:1112:ALA:O	1:B:1116:LEU:HB2	1.96	0.66
1:B:1562:LYS:C	1:B:1564:GLU:H	2.04	0.66
1:C:1279:HIS:HD2	1:C:1282:GLU:C	2.02	0.66
1:C:1417:LEU:O	1:C:1418:LEU:CB	2.33	0.66
1:A:1261:VAL:HG13	1:A:1295:TYR:CZ	2.30	0.66
1:A:1327:PHE:CZ	2:F:104:LYS:CB	2.70	0.66
1:A:1336:LEU:HD12	1:A:1360:GLU:HB3	1.78	0.66
1:A:1406:ARG:O	1:A:1409:GLN:HB3	1.96	0.66
1:A:1409:GLN:HA	1:A:1413:GLU:HG2	0.75	0.66
1:B:1161:ARG:NE	1:B:1170:GLU:HB2	2.09	0.66
1:B:1296:PHE:O	1:B:1298:GLU:N	2.29	0.66
1:B:1414:PHE:C	2:D:130:LYS:CE	2.50	0.66
1:B:1600:ILE:O	1:B:1604:LYS:HG3	1.94	0.66
1:C:1166:GLU:C	1:C:1170:GLU:HG2	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1492:ASN:C	1:C:1493:ILE:HG12	2.21	0.66
2:E:93:ASP:OD2	2:E:97:GLN:HG2	1.95	0.66
1:A:1108:TRP:CZ2	1:A:1129:ILE:CA	2.79	0.66
1:A:1108:TRP:HA	1:A:1108:TRP:HE3	1.59	0.66
1:A:1112:ALA:O	1:A:1116:LEU:HB2	1.95	0.66
1:A:1578:ARG:CZ	1:A:1583:LEU:CD2	2.68	0.66
1:B:1085:LEU:HD12	1:B:1095:ALA:HB1	1.78	0.66
1:B:1108:TRP:CE2	1:B:1129:ILE:O	2.49	0.66
1:B:1406:ARG:O	1:B:1409:GLN:HB3	1.96	0.66
1:B:1408:ILE:CG2	1:B:1412:LEU:HD22	2.26	0.66
1:B:1455:VAL:HG12	1:B:1456:GLN:N	1.98	0.66
1:B:1492:ASN:C	1:B:1493:ILE:HG12	2.21	0.66
1:C:1108:TRP:CE2	1:C:1129:ILE:O	2.49	0.66
2:E:146:VAL:HA	2:E:149:ASN:CG	2.20	0.66
1:A:1161:ARG:NH2	1:A:1170:GLU:OE1	2.28	0.66
1:A:1505:ILE:HD13	1:A:1505:ILE:N	2.11	0.66
1:A:1596:MET:O	1:A:1597:PRO:O	2.13	0.66
1:B:1108:TRP:CZ3	1:B:1129:ILE:HD12	2.31	0.66
1:B:1181:ASN:O	1:B:1185:GLU:OE1	2.14	0.66
1:B:1332:MET:SD	1:B:1360:GLU:CG	2.83	0.66
1:B:1527:LEU:HD21	1:B:1540:TYR:OH	1.94	0.66
1:C:1108:TRP:CZ2	1:C:1129:ILE:CA	2.79	0.66
1:C:1474:GLU:O	2:E:141:ARG:CD	2.37	0.66
1:C:1505:ILE:HD13	1:C:1505:ILE:N	2.11	0.66
1:C:1578:ARG:HD3	1:C:1582:VAL:HB	1.77	0.66
1:A:1362:VAL:CG2	1:A:1377:THR:CG2	2.73	0.66
1:A:1562:LYS:C	1:A:1564:GLU:H	2.03	0.66
1:B:1290:TYR:CD2	1:B:1299:LEU:CD1	2.57	0.66
1:B:1292:ASP:CG	2:D:97:GLN:HB3	2.20	0.66
1:B:1407:ALA:O	1:B:1408:ILE:C	2.39	0.66
1:B:1447:LEU:O	1:B:1450:PRO:HD2	1.95	0.66
1:C:1154:VAL:HG11	1:C:1180:THR:OG1	1.95	0.66
1:A:1161:ARG:NE	1:A:1170:GLU:HB2	2.09	0.66
1:A:1191:ASN:C	1:A:1193:PRO:CD	2.69	0.66
1:A:1408:ILE:CG2	1:A:1412:LEU:HD22	2.26	0.66
1:A:1420:ASN:HA	1:A:1423:LEU:HG	1.76	0.66
1:B:1108:TRP:CZ2	1:B:1129:ILE:CA	2.79	0.66
1:B:1378:MET:HE1	1:B:1394:ILE:HD12	1.77	0.66
1:C:1166:GLU:CG	1:C:1168:TYR:CZ	2.79	0.66
2:D:154:ARG:HB3	2:D:154:ARG:NH1	2.11	0.66
1:A:1215:LYS:C	1:A:1217:LEU:N	2.52	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1108:TRP:CZ3	1:C:1129:ILE:HD12	2.31	0.65
1:C:1112:ALA:O	1:C:1116:LEU:HB2	1.96	0.65
1:C:1336:LEU:HD12	1:C:1360:GLU:HB3	1.78	0.65
1:A:1112:ALA:C	1:A:1139:GLU:OE2	2.39	0.65
1:A:1154:VAL:HG11	1:A:1180:THR:OG1	1.96	0.65
1:B:1112:ALA:C	1:B:1139:GLU:OE2	2.40	0.65
1:B:1159:MET:C	1:B:1163:LYS:CD	2.70	0.65
1:B:1336:LEU:HD12	1:B:1360:GLU:HB3	1.78	0.65
1:C:1191:ASN:C	1:C:1193:PRO:CD	2.69	0.65
1:C:1257:CYS:HB3	1:C:1289:TYR:CE1	2.31	0.65
1:C:1264:LYS:HG3	1:C:1266:PHE:CD2	2.32	0.65
2:D:146:VAL:HA	2:D:149:ASN:CG	2.21	0.65
1:A:1122:LYS:HZ2	1:A:1147:SER:HB2	1.60	0.65
1:A:1166:GLU:CD	1:A:1168:TYR:CE2	2.75	0.65
1:A:1296:PHE:O	1:A:1298:GLU:N	2.29	0.65
1:A:1407:ALA:O	1:A:1408:ILE:C	2.39	0.65
1:A:1563:ARG:HH12	2:F:181:UNK:HA	1.60	0.65
1:B:1166:GLU:CG	1:B:1168:TYR:CZ	2.79	0.65
1:B:1257:CYS:HB3	1:B:1289:TYR:CE1	2.31	0.65
1:B:1401:VAL:HA	1:B:1404:TYR:CD1	2.31	0.65
1:C:1165:ARG:CD	1:C:1170:GLU:OE1	2.45	0.65
1:A:1085:LEU:HD12	1:A:1095:ALA:HB1	1.78	0.65
1:A:1132:ASP:CG	1:A:1133:ASP:N	2.53	0.65
1:A:1206:TYR:CG	1:A:1226:ARG:HG3	2.31	0.65
1:A:1395:ILE:HG13	1:A:1404:TYR:HE2	1.52	0.65
1:A:1492:ASN:C	1:A:1493:ILE:HG12	2.21	0.65
1:B:1264:LYS:NZ	1:B:1268:LEU:HD13	2.10	0.65
1:C:1159:MET:C	1:C:1163:LYS:CD	2.69	0.65
1:C:1504:LEU:CD2	2:E:149:ASN:CG	2.67	0.65
2:F:134:ASP:O	2:F:137:GLU:CB	2.43	0.65
1:A:1407:ALA:O	1:A:1409:GLN:N	2.30	0.65
1:B:1206:TYR:CG	1:B:1226:ARG:HG3	2.31	0.65
1:B:1264:LYS:HG3	1:B:1266:PHE:CD2	2.32	0.65
1:B:1443:LYS:HG2	1:B:1443:LYS:O	1.97	0.65
1:C:1108:TRP:CD1	1:C:1132:ASP:OD1	2.50	0.65
1:C:1283:LEU:HD22	1:C:1313:HIS:NE2	2.11	0.65
1:C:1412:LEU:CB	1:C:1419:LEU:HD13	2.26	0.65
2:D:133:LYS:HA	2:D:133:LYS:HZ2	1.59	0.65
2:F:112:ARG:C	2:F:112:ARG:HD3	2.20	0.65
2:F:146:VAL:HA	2:F:149:ASN:CG	2.21	0.65
2:F:184:UNK:O	2:F:185:UNK:C	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1142:GLN:OE1	1:A:1143:ALA:N	2.30	0.65
1:A:1165:ARG:CD	1:A:1170:GLU:OE1	2.45	0.65
1:B:1295:TYR:O	1:B:1296:PHE:C	2.40	0.65
1:C:1164:ALA:O	1:C:1165:ARG:C	2.37	0.65
1:C:1166:GLU:CD	1:C:1168:TYR:CE2	2.75	0.65
1:C:1181:ASN:O	1:C:1185:GLU:OE1	2.14	0.65
1:C:1277:VAL:O	1:C:1279:HIS:ND1	2.30	0.65
1:C:1296:PHE:O	1:C:1298:GLU:N	2.29	0.65
1:C:1402:GLU:OE1	1:C:1403:LEU:N	2.30	0.65
1:C:1562:LYS:C	1:C:1564:GLU:H	2.03	0.65
1:A:1166:GLU:H	1:A:1170:GLU:HB3	1.58	0.65
1:A:1350:ARG:HH21	1:A:1353:GLU:HB3	1.61	0.65
1:B:1591:ILE:CG2	1:B:1592:MET:H	1.98	0.65
1:C:1085:LEU:H	1:C:1085:LEU:CD2	2.05	0.65
1:C:1145:ASN:HD21	1:C:1150:TRP:HE1	1.42	0.65
1:C:1360:GLU:N	1:C:1360:GLU:OE1	2.30	0.65
1:C:1407:ALA:O	1:C:1408:ILE:C	2.39	0.65
1:C:1602:VAL:CG2	2:E:203:UNK:CA	2.75	0.65
2:E:154:ARG:HB3	2:E:154:ARG:NH1	2.11	0.65
1:A:1108:TRP:CZ3	1:A:1129:ILE:HD12	2.31	0.65
1:A:1264:LYS:HG3	1:A:1266:PHE:CD2	2.32	0.65
1:A:1295:TYR:O	1:A:1296:PHE:C	2.40	0.65
1:A:1401:VAL:HA	1:A:1404:TYR:CD1	2.31	0.65
1:A:1409:GLN:C	1:A:1413:GLU:HB2	2.18	0.65
1:B:1091:ASN:ND2	1:B:1091:ASN:C	2.52	0.65
1:B:1181:ASN:O	1:B:1185:GLU:OE2	2.15	0.65
1:B:1234:LEU:CG	1:B:1235:GLY:H	2.09	0.65
1:B:1475:GLU:OE1	2:D:145:GLN:CG	2.29	0.65
1:C:1295:TYR:O	1:C:1296:PHE:C	2.40	0.65
2:F:109:GLN:O	2:F:112:ARG:HB3	1.97	0.65
1:A:1166:GLU:CG	1:A:1168:TYR:CZ	2.79	0.65
1:A:1209:LYS:CB	1:A:1230:THR:HG22	2.26	0.65
1:B:1166:GLU:CD	1:B:1168:TYR:CE2	2.75	0.65
1:B:1211:TYR:OH	1:B:1239:ALA:HB2	1.97	0.65
1:B:1327:PHE:CA	2:D:104:LYS:NZ	2.53	0.65
1:B:1347:LYS:HD3	1:B:1348:VAL:N	2.12	0.65
1:B:1586:ALA:HB1	1:B:1590:ASN:CG	2.22	0.65
1:B:1586:ALA:CB	1:B:1590:ASN:ND2	2.48	0.65
1:C:1261:VAL:CG2	1:C:1295:TYR:CE2	2.77	0.65
1:C:1378:MET:HE1	1:C:1394:ILE:HD12	1.77	0.65
1:C:1407:ALA:O	1:C:1409:GLN:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1104:GLU:HB2	1:A:1129:ILE:HA	1.79	0.65
1:A:1159:MET:C	1:A:1163:LYS:CD	2.70	0.65
1:A:1601:GLN:HB2	1:B:1587:TRP:CH2	2.31	0.65
1:B:1085:LEU:H	1:B:1085:LEU:CD2	2.05	0.65
1:B:1191:ASN:C	1:B:1193:PRO:CD	2.69	0.65
1:B:1362:VAL:CG2	1:B:1377:THR:HB	2.25	0.65
1:C:1406:ARG:O	1:C:1409:GLN:HB3	1.96	0.65
1:C:1409:GLN:CB	1:C:1413:GLU:HG2	2.20	0.65
2:D:109:GLN:O	2:D:112:ARG:HB3	1.96	0.65
2:D:155:ILE:HD13	2:D:155:ILE:N	2.12	0.65
1:B:1408:ILE:HG21	1:B:1412:LEU:HD22	1.79	0.64
1:B:1601:GLN:HE21	1:C:1587:TRP:HH2	1.45	0.64
1:C:1401:VAL:HA	1:C:1404:TYR:CD1	2.31	0.64
1:C:1586:ALA:HB1	1:C:1590:ASN:CG	2.22	0.64
2:F:143:SER:O	2:F:147:GLU:HB2	1.97	0.64
1:A:1122:LYS:HA	1:A:1125:ILE:CG2	2.18	0.64
1:A:1181:ASN:O	1:A:1185:GLU:OE1	2.14	0.64
1:A:1578:ARG:HD3	1:A:1582:VAL:HB	1.77	0.64
1:B:1412:LEU:CB	1:B:1419:LEU:HD13	2.26	0.64
1:B:1471:PHE:HB2	1:B:1480:LEU:HD13	1.80	0.64
1:C:1122:LYS:HA	1:C:1125:ILE:CG2	2.18	0.64
1:C:1206:TYR:CG	1:C:1226:ARG:HG3	2.31	0.64
1:C:1211:TYR:OH	1:C:1239:ALA:HB2	1.97	0.64
1:C:1262:ASP:HB3	1:C:1293:ARG:NE	2.12	0.64
1:C:1401:VAL:HA	1:C:1404:TYR:CE1	2.32	0.64
1:C:1447:LEU:O	1:C:1450:PRO:HD2	1.95	0.64
2:F:162:GLN:O	2:F:164:PRO:N	2.30	0.64
1:A:1085:LEU:H	1:A:1085:LEU:CD2	2.05	0.64
1:A:1362:VAL:CG2	1:A:1377:THR:HB	2.25	0.64
1:A:1580:ASP:CG	1:C:1605:GLU:HG3	2.22	0.64
1:B:1108:TRP:CD1	1:B:1132:ASP:OD1	2.50	0.64
1:B:1283:LEU:HD22	1:B:1313:HIS:NE2	2.11	0.64
1:B:1326:LYS:O	1:B:1327:PHE:CE1	2.51	0.64
1:B:1409:GLN:HA	1:B:1413:GLU:HG2	0.75	0.64
1:C:1166:GLU:CD	1:C:1168:TYR:CZ	2.76	0.64
1:C:1443:LYS:O	1:C:1443:LYS:HG2	1.97	0.64
1:A:1211:TYR:OH	1:A:1239:ALA:HB2	1.97	0.64
1:A:1257:CYS:HB3	1:A:1289:TYR:CZ	2.33	0.64
1:A:1414:PHE:CD2	2:F:127:TRP:HE3	2.16	0.64
1:A:1592:MET:CE	1:A:1592:MET:C	2.64	0.64
1:B:1142:GLN:OE1	1:B:1143:ALA:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1402:GLU:OE1	1:B:1403:LEU:N	2.30	0.64
1:B:1601:GLN:HB3	1:C:1580:ASP:CG	2.22	0.64
1:C:1195:ASN:O	1:C:1196:ALA:HB2	1.97	0.64
1:C:1408:ILE:CG2	1:C:1412:LEU:HD22	2.26	0.64
2:E:116:LEU:O	2:E:119:ALA:HB3	1.98	0.64
1:A:1160:ALA:O	1:A:1164:ALA:N	2.30	0.64
1:A:1262:ASP:HB3	1:A:1293:ARG:NE	2.12	0.64
1:A:1401:VAL:HA	1:A:1404:TYR:CE1	2.32	0.64
1:B:1165:ARG:CD	1:B:1170:GLU:OE1	2.45	0.64
1:B:1222:SER:OG	1:B:1223:ASN:N	2.30	0.64
1:B:1360:GLU:OE1	1:B:1360:GLU:N	2.30	0.64
1:C:1085:LEU:HD12	1:C:1095:ALA:HB1	1.78	0.64
1:C:1112:ALA:C	1:C:1139:GLU:OE2	2.40	0.64
1:C:1257:CYS:HB3	1:C:1289:TYR:CZ	2.33	0.64
1:C:1326:LYS:O	1:C:1327:PHE:CE1	2.51	0.64
1:A:1283:LEU:HD22	1:A:1313:HIS:NE2	2.11	0.64
1:A:1326:LYS:O	1:A:1327:PHE:CE1	2.51	0.64
1:A:1347:LYS:HD3	1:A:1348:VAL:N	2.12	0.64
1:A:1408:ILE:HG21	1:A:1412:LEU:HD22	1.80	0.64
1:A:1471:PHE:HB2	1:A:1480:LEU:HD13	1.79	0.64
1:B:1160:ALA:O	1:B:1164:ALA:N	2.30	0.64
1:B:1215:LYS:HD3	1:B:1216:LEU:N	2.12	0.64
1:B:1401:VAL:HA	1:B:1404:TYR:CE1	2.32	0.64
1:C:1091:ASN:ND2	1:C:1091:ASN:C	2.52	0.64
1:C:1584:GLU:O	1:C:1587:TRP:N	2.28	0.64
2:E:89:ILE:CB	2:E:90:ALA:HA	2.28	0.64
2:E:112:ARG:O	2:E:113:LEU:O	2.16	0.64
2:F:191:UNK:O	2:F:193:UNK:N	2.30	0.64
1:A:1412:LEU:CB	1:A:1419:LEU:HD13	2.26	0.64
1:A:1586:ALA:HB1	1:A:1590:ASN:CG	2.22	0.64
1:B:1159:MET:HA	1:B:1162:LYS:HZ3	1.62	0.64
1:B:1166:GLU:CD	1:B:1168:TYR:CZ	2.76	0.64
1:B:1350:ARG:HH21	1:B:1353:GLU:HB3	1.61	0.64
1:B:1505:ILE:HD13	1:B:1505:ILE:N	2.11	0.64
1:C:1181:ASN:O	1:C:1185:GLU:OE2	2.15	0.64
1:C:1455:VAL:CG1	1:C:1456:GLN:H	1.96	0.64
1:A:1181:ASN:O	1:A:1185:GLU:OE2	2.15	0.64
1:A:1402:GLU:OE1	1:A:1403:LEU:N	2.30	0.64
1:A:1407:ALA:C	1:A:1409:GLN:N	2.55	0.64
1:A:1450:PRO:HA	1:A:1453:ARG:CG	2.27	0.64
1:B:1122:LYS:HA	1:B:1125:ILE:CG2	2.18	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1407:ALA:O	1:B:1409:GLN:N	2.30	0.64
1:B:1598:TYR:HA	1:C:1584:GLU:OE1	1.98	0.64
1:C:1496:ALA:HB3	1:C:1515:PHE:CE1	2.33	0.64
1:C:1602:VAL:CG2	2:E:203:UNK:C	2.44	0.64
2:D:98:GLU:HB3	2:D:99:PRO:CD	2.23	0.64
2:D:116:LEU:O	2:D:119:ALA:HB3	1.98	0.64
2:D:143:SER:O	2:D:147:GLU:HB2	1.97	0.64
2:E:98:GLU:CA	2:E:101:SER:HB3	2.27	0.64
2:E:112:ARG:C	2:E:112:ARG:HD3	2.20	0.64
1:A:1166:GLU:CD	1:A:1168:TYR:CZ	2.76	0.64
1:B:1277:VAL:O	1:B:1279:HIS:ND1	2.30	0.64
1:C:1157:LEU:CD1	1:C:1173:LEU:HA	2.28	0.64
1:C:1290:TYR:CD2	1:C:1299:LEU:CD1	2.57	0.64
1:C:1347:LYS:HD3	1:C:1348:VAL:N	2.12	0.64
1:A:1171:THR:OG1	1:A:1196:ALA:HA	1.98	0.64
1:A:1360:GLU:OE1	1:A:1360:GLU:N	2.30	0.64
1:A:1384:ASP:OD2	2:F:115:GLU:OE1	2.04	0.64
1:C:1234:LEU:CG	1:C:1235:GLY:H	2.09	0.64
1:C:1584:GLU:O	1:C:1586:ALA:N	2.31	0.64
1:B:1262:ASP:HB3	1:B:1293:ARG:NE	2.12	0.63
2:E:108:GLU:OE2	2:E:109:GLN:NE2	2.31	0.63
1:A:1108:TRP:CD1	1:A:1132:ASP:OD1	2.50	0.63
1:A:1443:LYS:O	1:A:1443:LYS:HG2	1.97	0.63
1:B:1157:LEU:CD1	1:B:1173:LEU:HA	2.28	0.63
1:C:1142:GLN:OE1	1:C:1143:ALA:N	2.30	0.63
1:C:1171:THR:OG1	1:C:1196:ALA:HA	1.99	0.63
1:C:1215:LYS:HD3	1:C:1216:LEU:N	2.12	0.63
1:C:1350:ARG:HH21	1:C:1353:GLU:HB3	1.61	0.63
1:C:1434:ARG:HG2	1:C:1434:ARG:O	1.98	0.63
1:C:1586:ALA:CA	1:C:1590:ASN:OD1	2.46	0.63
1:A:1253:TRP:C	1:A:1255:GLU:N	2.46	0.63
1:A:1356:HIS:CB	2:F:112:ARG:CZ	2.59	0.63
1:B:1171:THR:OG1	1:B:1196:ALA:HA	1.99	0.63
1:C:1279:HIS:HB2	1:C:1282:GLU:CB	2.29	0.63
1:C:1349:LEU:HB3	1:C:1353:GLU:OE1	1.99	0.63
1:C:1408:ILE:CG2	1:C:1412:LEU:HB2	2.21	0.63
1:C:1412:LEU:CB	1:C:1419:LEU:CD1	2.75	0.63
1:C:1609:LYS:HA	1:C:1612:LYS:HG3	1.80	0.63
1:A:1279:HIS:HE1	1:A:1286:LEU:CD2	1.97	0.63
1:A:1416:PRO:CD	2:F:130:LYS:CD	2.47	0.63
1:A:1598:TYR:OH	1:B:1588:ARG:HD3	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1279:HIS:HB2	1:B:1282:GLU:CB	2.29	0.63
1:B:1351:ALA:HA	1:B:1354:GLN:HG2	1.80	0.63
1:B:1361:LEU:CD2	1:B:1361:LEU:C	2.72	0.63
1:B:1434:ARG:O	1:B:1434:ARG:HG2	1.98	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	2.27	0.63
1:C:1471:PHE:HB2	1:C:1480:LEU:HD13	1.79	0.63
1:C:1620:ARG:NH1	1:C:1620:ARG:CG	2.52	0.63
2:F:112:ARG:O	2:F:113:LEU:O	2.16	0.63
1:A:1177:LEU:O	1:A:1185:GLU:OE2	2.16	0.63
1:A:1195:ASN:O	1:A:1196:ALA:HB2	1.97	0.63
1:A:1459:ASN:ND2	1:A:1489:ASN:HB2	2.13	0.63
1:B:1292:ASP:HA	2:D:97:GLN:HA	1.63	0.63
1:B:1609:LYS:HA	1:B:1612:LYS:HG3	1.80	0.63
1:C:1108:TRP:CH2	1:C:1129:ILE:CA	2.81	0.63
1:C:1351:ALA:HA	1:C:1354:GLN:HG2	1.80	0.63
1:C:1445:LEU:N	1:C:1446:PRO:CD	2.61	0.63
1:C:1516:LYS:HB3	1:C:1523:GLN:HB2	1.81	0.63
1:A:1108:TRP:CH2	1:A:1129:ILE:CA	2.81	0.63
1:A:1157:LEU:CD1	1:A:1173:LEU:HA	2.28	0.63
1:A:1351:ALA:HA	1:A:1354:GLN:HG2	1.80	0.63
1:A:1496:ALA:HB3	1:A:1515:PHE:CE1	2.33	0.63
1:B:1332:MET:SD	1:B:1357:LEU:HD13	2.39	0.63
1:B:1349:LEU:HB3	1:B:1353:GLU:OE1	1.98	0.63
1:B:1496:ALA:HB3	1:B:1515:PHE:CE1	2.33	0.63
1:B:1584:GLU:O	1:B:1586:ALA:N	2.31	0.63
1:C:1407:ALA:C	1:C:1409:GLN:N	2.55	0.63
2:F:182:UNK:O	2:F:184:UNK:N	2.31	0.63
1:A:1609:LYS:HA	1:A:1612:LYS:HG3	1.80	0.63
1:B:1250:THR:O	1:B:1251:ARG:CB	2.46	0.63
1:B:1257:CYS:HB3	1:B:1289:TYR:CZ	2.33	0.63
1:C:1317:PHE:N	1:C:1317:PHE:CD2	2.63	0.63
2:D:204:UNK:O	2:D:205:UNK:C	2.47	0.63
2:E:130:LYS:O	2:E:133:LYS:HB2	1.99	0.63
1:A:1279:HIS:HB2	1:A:1282:GLU:CB	2.29	0.63
1:A:1414:PHE:HB3	2:F:130:LYS:HE3	1.80	0.63
1:B:1412:LEU:HD12	1:B:1419:LEU:HD22	1.81	0.63
1:C:1159:MET:HA	1:C:1162:LYS:HZ3	1.64	0.63
1:C:1188:GLU:OE2	1:C:1192:GLY:N	2.32	0.63
2:D:129:GLU:O	2:D:132:LYS:HG2	1.99	0.63
2:E:129:GLU:O	2:E:132:LYS:HG2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1166:GLU:OE1	1:A:1168:TYR:CE2	2.52	0.62
1:B:1407:ALA:C	1:B:1409:GLN:N	2.55	0.62
1:B:1533:LEU:HD22	2:D:163:GLN:CB	2.29	0.62
1:C:1177:LEU:O	1:C:1185:GLU:OE2	2.16	0.62
2:F:129:GLU:O	2:F:132:LYS:HG2	1.99	0.62
1:A:1152:GLU:N	1:A:1152:GLU:OE2	2.32	0.62
1:A:1159:MET:HA	1:A:1162:LYS:HZ3	1.62	0.62
1:B:1166:GLU:OE1	1:B:1168:TYR:CE2	2.52	0.62
1:B:1188:GLU:OE2	1:B:1192:GLY:N	2.32	0.62
1:B:1282:GLU:OE2	1:B:1285:GLU:HB3	1.99	0.62
1:B:1503:GLU:HG3	1:B:1504:LEU:N	2.14	0.62
2:F:116:LEU:O	2:F:119:ALA:HB3	1.98	0.62
2:F:124:GLU:HG3	2:F:125:GLN:N	2.12	0.62
1:A:1395:ILE:CG1	1:A:1404:TYR:HE2	2.02	0.62
1:A:1419:LEU:HD12	1:A:1422:LEU:HD12	1.80	0.62
1:B:1092:LEU:O	1:B:1094:ARG:N	2.28	0.62
1:B:1152:GLU:OE2	1:B:1152:GLU:N	2.32	0.62
1:B:1195:ASN:O	1:B:1196:ALA:HB2	1.97	0.62
1:B:1584:GLU:O	1:B:1587:TRP:N	2.28	0.62
1:C:1079:THR:CA	1:C:1105:PRO:HG3	2.30	0.62
1:C:1152:GLU:N	1:C:1152:GLU:OE2	2.32	0.62
1:C:1350:ARG:HH21	1:C:1353:GLU:CB	2.12	0.62
1:C:1381:HIS:N	1:C:1382:PRO:HD3	2.14	0.62
1:C:1586:ALA:CB	1:C:1590:ASN:ND2	2.48	0.62
2:D:124:GLU:HG3	2:D:125:GLN:N	2.12	0.62
1:A:1078:ASN:CG	1:A:1101:ARG:C	2.67	0.62
1:A:1490:PHE:CD1	1:A:1492:ASN:OD1	2.52	0.62
1:A:1584:GLU:O	1:A:1586:ALA:N	2.31	0.62
1:A:1598:TYR:HA	1:B:1584:GLU:OE2	1.99	0.62
1:B:1108:TRP:CH2	1:B:1129:ILE:CA	2.81	0.62
1:B:1177:LEU:O	1:B:1185:GLU:OE2	2.16	0.62
1:B:1414:PHE:C	1:B:1416:PRO:HD3	2.20	0.62
1:B:1459:ASN:ND2	1:B:1489:ASN:HB2	2.13	0.62
1:B:1472:ILE:HB	1:B:1498:ARG:NH2	2.14	0.62
1:C:1620:ARG:NH1	1:C:1620:ARG:HG3	2.15	0.62
1:A:1503:GLU:HG3	1:A:1504:LEU:N	2.13	0.62
1:A:1516:LYS:HB3	1:A:1523:GLN:HB2	1.81	0.62
1:B:1165:ARG:NH2	1:B:1194:ASN:HD21	1.97	0.62
1:B:1279:HIS:HE1	1:B:1286:LEU:CD2	1.98	0.62
1:B:1402:GLU:HA	1:B:1405:TYR:CE2	2.35	0.62
1:B:1419:LEU:HD12	1:B:1422:LEU:HD12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1166:GLU:OE1	1:C:1168:TYR:CE2	2.52	0.62
1:C:1358:TRP:CH2	1:C:1381:HIS:HE1	2.02	0.62
1:C:1361:LEU:CD2	1:C:1361:LEU:C	2.72	0.62
1:C:1409:GLN:HG3	1:C:1413:GLU:HG3	0.64	0.62
2:E:90:ALA:N	2:E:91:GLN:HA	2.13	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:1079:THR:CA	1:A:1105:PRO:HG3	2.30	0.62
1:A:1165:ARG:NH2	1:A:1194:ASN:HD21	1.97	0.62
1:A:1215:LYS:HD3	1:A:1216:LEU:N	2.13	0.62
1:A:1332:MET:SD	1:A:1357:LEU:HD13	2.39	0.62
1:A:1349:LEU:HB3	1:A:1353:GLU:OE1	1.98	0.62
1:A:1617:GLU:HA	1:A:1620:ARG:HB2	1.82	0.62
1:B:1104:GLU:HB2	1:B:1129:ILE:HA	1.80	0.62
1:B:1412:LEU:CB	1:B:1419:LEU:CD1	2.75	0.62
1:B:1445:LEU:N	1:B:1446:PRO:CD	2.61	0.62
1:C:1414:PHE:C	1:C:1416:PRO:HD3	2.20	0.62
1:A:1402:GLU:HA	1:A:1405:TYR:CE2	2.35	0.62
1:A:1620:ARG:CG	1:A:1620:ARG:NH1	2.52	0.62
1:C:1079:THR:O	1:C:1105:PRO:HG2	1.94	0.62
2:D:130:LYS:O	2:D:133:LYS:HB2	1.99	0.62
1:A:1277:VAL:O	1:A:1279:HIS:ND1	2.30	0.62
1:A:1409:GLN:HG3	1:A:1413:GLU:HG3	0.65	0.62
1:B:1167:SER:C	1:B:1171:THR:CB	2.57	0.62
1:B:1617:GLU:HA	1:B:1620:ARG:HB2	1.82	0.62
1:C:1250:THR:O	1:C:1251:ARG:CB	2.46	0.62
1:C:1402:GLU:HA	1:C:1405:TYR:CE2	2.35	0.62
1:C:1459:ASN:ND2	1:C:1489:ASN:HB2	2.13	0.62
1:A:1274:LEU:CA	1:A:1277:VAL:HG22	2.30	0.62
1:B:1079:THR:HG21	1:B:1105:PRO:HB3	1.81	0.62
1:B:1085:LEU:O	1:B:1086:ILE:C	2.43	0.62
1:C:1160:ALA:O	1:C:1164:ALA:N	2.30	0.62
1:A:1282:GLU:OE2	1:A:1285:GLU:HB3	1.99	0.62
1:A:1333:ARG:CA	1:A:1360:GLU:HG2	2.30	0.62
1:A:1350:ARG:HH21	1:A:1353:GLU:CB	2.12	0.62
1:A:1578:ARG:NH1	1:A:1583:LEU:HA	2.15	0.62
1:A:1600:ILE:HG22	1:A:1604:LYS:HE3	1.81	0.62
1:C:1332:MET:SD	1:C:1357:LEU:HD13	2.39	0.62
1:C:1412:LEU:HD12	1:C:1419:LEU:HD22	1.81	0.62
1:C:1505:ILE:O	1:C:1509:ARG:N	2.33	0.62
1:A:1250:THR:O	1:A:1251:ARG:CB	2.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1442:VAL:HG12	1:A:1444:GLN:HB2	1.82	0.61
1:B:1215:LYS:C	1:B:1217:LEU:N	2.52	0.61
1:B:1442:VAL:HG12	1:B:1444:GLN:HB2	1.82	0.61
1:C:1078:ASN:CG	1:C:1101:ARG:C	2.67	0.61
1:C:1104:GLU:HB2	1:C:1129:ILE:HA	1.80	0.61
1:C:1165:ARG:NH2	1:C:1194:ASN:HD21	1.97	0.61
1:C:1333:ARG:CA	1:C:1360:GLU:HG2	2.30	0.61
1:C:1617:GLU:HA	1:C:1620:ARG:HB2	1.82	0.61
1:A:1085:LEU:O	1:A:1086:ILE:C	2.43	0.61
1:A:1361:LEU:CD2	1:A:1361:LEU:C	2.72	0.61
1:A:1381:HIS:N	1:A:1382:PRO:HD3	2.14	0.61
1:B:1297:GLU:O	1:B:1300:ILE:HG13	2.01	0.61
1:B:1381:HIS:N	1:B:1382:PRO:HD3	2.15	0.61
1:B:1516:LYS:HB3	1:B:1523:GLN:HB2	1.81	0.61
1:A:1505:ILE:O	1:A:1509:ARG:N	2.33	0.61
1:B:1082:VAL:CG1	1:B:1102:CYS:SG	2.88	0.61
1:B:1350:ARG:HH21	1:B:1353:GLU:CB	2.12	0.61
1:B:1533:LEU:CD2	2:D:163:GLN:CB	2.78	0.61
1:C:1282:GLU:OE2	1:C:1285:GLU:HB3	1.99	0.61
1:C:1442:VAL:HG12	1:C:1444:GLN:HB2	1.82	0.61
2:D:118:ALA:HA	2:D:121:LYS:HZ2	1.64	0.61
2:D:174:UNK:HA	2:D:176:UNK:CA	2.30	0.61
2:E:189:UNK:CB	2:E:195:UNK:N	2.63	0.61
2:F:121:LYS:O	2:F:124:GLU:HB3	2.00	0.61
1:A:1297:GLU:O	1:A:1300:ILE:HG13	2.01	0.61
1:A:1326:LYS:HB2	2:F:108:GLU:HB3	1.82	0.61
1:A:1408:ILE:CG2	1:A:1412:LEU:HB2	2.21	0.61
1:A:1434:ARG:HG2	1:A:1434:ARG:O	1.98	0.61
1:B:1154:VAL:CG1	1:B:1180:THR:OG1	2.48	0.61
1:B:1505:ILE:O	1:B:1509:ARG:N	2.33	0.61
1:B:1533:LEU:C	1:B:1535:LYS:H	2.08	0.61
1:C:1222:SER:OG	1:C:1223:ASN:N	2.30	0.61
1:C:1365:TYR:HB2	1:C:1374:ALA:HB2	1.82	0.61
1:A:1222:SER:OG	1:A:1223:ASN:N	2.30	0.61
1:A:1504:LEU:CG	2:F:149:ASN:O	2.48	0.61
1:B:1079:THR:CA	1:B:1105:PRO:HG3	2.30	0.61
1:B:1584:GLU:O	1:B:1585:THR:C	2.43	0.61
1:C:1085:LEU:O	1:C:1086:ILE:C	2.43	0.61
1:C:1395:ILE:CG1	1:C:1404:TYR:HE2	2.02	0.61
1:C:1602:VAL:HG11	2:E:202:UNK:C	2.25	0.61
2:D:173:UNK:O	2:D:176:UNK:CB	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1166:GLU:N	1:A:1170:GLU:HB3	2.16	0.61
1:A:1365:TYR:HB2	1:A:1374:ALA:HB2	1.82	0.61
1:A:1471:PHE:CB	1:A:1480:LEU:HB2	2.31	0.61
1:B:1578:ARG:NH1	1:B:1583:LEU:HA	2.15	0.61
1:B:1600:ILE:HG22	1:B:1604:LYS:HE3	1.81	0.61
1:C:1092:LEU:O	1:C:1094:ARG:N	2.28	0.61
2:D:121:LYS:O	2:D:124:GLU:HB3	2.00	0.61
1:A:1326:LYS:HB2	2:F:108:GLU:CB	2.31	0.61
1:A:1412:LEU:HD12	1:A:1419:LEU:HD22	1.81	0.61
1:A:1598:TYR:HE1	1:B:1588:ARG:CB	2.14	0.61
1:B:1504:LEU:HD23	2:D:149:ASN:O	1.98	0.61
1:C:1173:LEU:O	1:C:1177:LEU:HG	2.01	0.61
1:C:1297:GLU:O	1:C:1300:ILE:HG13	2.00	0.61
1:C:1503:GLU:HG3	1:C:1504:LEU:N	2.14	0.61
1:C:1533:LEU:HG	1:C:1535:LYS:H	1.66	0.61
2:E:184:UNK:O	2:E:186:UNK:N	2.33	0.61
1:A:1079:THR:O	1:A:1105:PRO:HG2	1.94	0.61
1:B:1173:LEU:O	1:B:1177:LEU:HG	2.01	0.61
1:B:1333:ARG:CA	1:B:1360:GLU:HG2	2.30	0.61
1:B:1451:TYR:O	1:B:1455:VAL:CG2	2.48	0.61
1:C:1082:VAL:CG1	1:C:1102:CYS:SG	2.89	0.61
1:C:1166:GLU:N	1:C:1170:GLU:HB3	2.15	0.61
2:D:102:ILE:O	2:D:106:ARG:N	2.34	0.61
2:E:108:GLU:OE2	2:E:109:GLN:CD	2.42	0.61
1:A:1571:PHE:O	1:A:1577:LEU:HD21	2.01	0.61
1:B:1091:ASN:ND2	1:B:1092:LEU:N	2.49	0.61
1:B:1166:GLU:N	1:B:1170:GLU:HB3	2.16	0.61
1:B:1274:LEU:CA	1:B:1277:VAL:HG22	2.30	0.61
1:B:1365:TYR:HB2	1:B:1374:ALA:HB2	1.82	0.61
1:B:1571:PHE:O	1:B:1577:LEU:HD21	2.01	0.61
1:C:1116:LEU:HD11	1:C:1143:ALA:HB1	1.83	0.61
1:C:1154:VAL:CG1	1:C:1180:THR:OG1	2.48	0.61
1:C:1428:PRO:O	1:C:1429:ARG:HB3	2.01	0.61
1:C:1472:ILE:HB	1:C:1498:ARG:NH2	2.14	0.61
2:F:130:LYS:O	2:F:133:LYS:HB2	2.00	0.61
1:A:1154:VAL:CG1	1:A:1180:THR:OG1	2.48	0.61
1:A:1357:LEU:HD23	2:F:111:LYS:NZ	2.14	0.61
1:B:1409:GLN:HG3	1:B:1413:GLU:HG3	0.65	0.61
1:B:1426:LEU:O	1:B:1427:SER:C	2.44	0.61
1:B:1471:PHE:CB	1:B:1480:LEU:HB2	2.31	0.61
1:C:1274:LEU:CA	1:C:1277:VAL:HG22	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1533:LEU:C	1:C:1535:LYS:H	2.08	0.61
1:A:1122:LYS:CA	1:A:1125:ILE:HG22	2.21	0.60
1:A:1173:LEU:O	1:A:1177:LEU:HG	2.01	0.60
1:A:1445:LEU:N	1:A:1446:PRO:CD	2.61	0.60
1:C:1451:TYR:O	1:C:1455:VAL:CG2	2.48	0.60
1:A:1082:VAL:CG1	1:A:1102:CYS:SG	2.89	0.60
1:A:1122:LYS:HZ2	1:A:1147:SER:CB	2.13	0.60
1:A:1325:SER:O	1:A:1355:ALA:CB	2.49	0.60
1:A:1416:PRO:HG2	2:F:130:LYS:HA	1.83	0.60
1:A:1620:ARG:NH1	1:A:1620:ARG:HG3	2.15	0.60
1:B:1218:TYR:CE2	1:B:1227:LEU:HB2	2.37	0.60
1:B:1325:SER:O	1:B:1355:ALA:CB	2.49	0.60
1:B:1428:PRO:O	1:B:1429:ARG:HB3	2.01	0.60
1:C:1395:ILE:O	1:C:1404:TYR:OH	2.17	0.60
1:C:1490:PHE:CD1	1:C:1492:ASN:OD1	2.52	0.60
1:A:1092:LEU:O	1:A:1094:ARG:N	2.28	0.60
1:A:1122:LYS:NZ	1:A:1147:SER:HB2	2.15	0.60
1:A:1188:GLU:OE2	1:A:1192:GLY:N	2.33	0.60
1:A:1333:ARG:HA	1:A:1360:GLU:HG2	1.83	0.60
1:A:1426:LEU:O	1:A:1427:SER:C	2.44	0.60
1:A:1451:TYR:O	1:A:1455:VAL:CG2	2.48	0.60
1:A:1584:GLU:O	1:A:1587:TRP:N	2.28	0.60
1:C:1091:ASN:ND2	1:C:1092:LEU:N	2.49	0.60
1:C:1160:ALA:O	1:C:1165:ARG:N	2.34	0.60
1:C:1398:VAL:HG12	1:C:1400:ASN:H	1.65	0.60
1:C:1403:LEU:C	1:C:1403:LEU:CD1	2.74	0.60
1:A:1160:ALA:O	1:A:1165:ARG:N	2.34	0.60
1:A:1428:PRO:O	1:A:1429:ARG:HB3	2.01	0.60
1:A:1591:ILE:HG12	1:A:1592:MET:N	2.17	0.60
1:B:1078:ASN:CG	1:B:1101:ARG:C	2.67	0.60
1:B:1490:PHE:CD1	1:B:1492:ASN:OD1	2.52	0.60
1:B:1591:ILE:HG12	1:B:1592:MET:N	2.17	0.60
1:C:1154:VAL:HG11	1:C:1180:THR:CB	2.32	0.60
1:C:1358:TRP:CZ3	1:C:1377:THR:HG23	2.36	0.60
1:C:1408:ILE:HG21	1:C:1412:LEU:HD22	1.79	0.60
1:C:1584:GLU:O	1:C:1585:THR:C	2.43	0.60
1:C:1591:ILE:HG12	1:C:1592:MET:N	2.17	0.60
2:E:90:ALA:H	2:E:91:GLN:HB3	1.64	0.60
1:B:1578:ARG:CZ	1:B:1583:LEU:CD2	2.68	0.60
1:B:1586:ALA:CA	1:B:1590:ASN:OD1	2.46	0.60
1:B:1617:GLU:HG2	1:B:1621:LYS:NZ	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1122:LYS:NZ	1:C:1147:SER:HB2	2.15	0.60
2:E:95:LEU:O	2:E:95:LEU:HD13	2.01	0.60
1:A:1091:ASN:ND2	1:A:1092:LEU:N	2.49	0.60
1:A:1154:VAL:HG11	1:A:1180:THR:CB	2.31	0.60
1:A:1358:TRP:CZ3	1:A:1381:HIS:CE1	2.64	0.60
1:A:1377:THR:HA	1:A:1381:HIS:CD2	2.36	0.60
1:B:1122:LYS:NZ	1:B:1147:SER:HB2	2.15	0.60
1:B:1293:ARG:CB	2:D:97:GLN:OE1	2.50	0.60
1:B:1450:PRO:HA	1:B:1453:ARG:CG	2.27	0.60
1:B:1578:ARG:HD3	1:B:1582:VAL:CG1	2.32	0.60
1:C:1218:TYR:CE2	1:C:1227:LEU:HB2	2.37	0.60
1:C:1600:ILE:HG22	1:C:1604:LYS:HE3	1.81	0.60
2:D:173:UNK:O	2:D:174:UNK:CB	2.45	0.60
1:A:1122:LYS:HZ1	1:A:1147:SER:HG	1.48	0.60
1:A:1162:LYS:NZ	1:A:1163:LYS:HZ3	1.99	0.60
1:A:1277:VAL:O	1:A:1279:HIS:N	2.35	0.60
1:B:1358:TRP:CZ3	1:B:1381:HIS:CE1	2.64	0.60
2:E:143:SER:O	2:E:147:GLU:HB2	2.00	0.60
1:A:1168:TYR:O	1:A:1172:GLU:HG2	2.02	0.60
1:A:1415:LYS:C	2:F:130:LYS:HD3	2.24	0.60
1:A:1584:GLU:O	1:A:1585:THR:C	2.43	0.60
1:C:1082:VAL:CG1	1:C:1083:GLN:H	2.14	0.60
1:C:1377:THR:HA	1:C:1381:HIS:CD2	2.36	0.60
1:A:1403:LEU:C	1:A:1403:LEU:CD1	2.74	0.60
1:A:1513:TYR:CD1	1:A:1516:LYS:HE2	2.36	0.60
1:B:1154:VAL:HG11	1:B:1180:THR:CB	2.32	0.60
1:B:1159:MET:HA	1:B:1163:LYS:HE2	1.71	0.60
1:B:1533:LEU:HG	1:B:1535:LYS:H	1.66	0.60
2:D:186:UNK:N	2:D:190:UNK:CB	2.65	0.60
2:E:121:LYS:O	2:E:124:GLU:HB3	2.01	0.60
2:F:195:UNK:N	2:F:197:UNK:CB	2.65	0.60
1:A:1398:VAL:HG12	1:A:1400:ASN:H	1.66	0.60
1:A:1472:ILE:HB	1:A:1498:ARG:NH2	2.14	0.60
1:A:1586:ALA:CA	1:A:1590:ASN:OD1	2.46	0.60
1:B:1079:THR:O	1:B:1105:PRO:HG2	1.94	0.60
1:B:1340:TRP:CD1	1:B:1340:TRP:H	2.20	0.60
1:B:1597:PRO:O	1:C:1584:GLU:OE2	2.20	0.60
1:C:1578:ARG:NH1	1:C:1583:LEU:HA	2.15	0.60
1:A:1358:TRP:CD1	2:F:115:GLU:CD	2.80	0.59
1:A:1401:VAL:CG2	1:A:1429:ARG:HE	2.12	0.59
1:A:1617:GLU:HG2	1:A:1621:LYS:NZ	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1225:GLY:C	1:B:1227:LEU:H	2.10	0.59
2:D:114:GLN:CG	2:D:115:GLU:N	2.26	0.59
1:A:1190:ILE:HD12	1:A:1216:LEU:HD11	1.84	0.59
1:A:1261:VAL:HG23	1:A:1293:ARG:HD2	1.84	0.59
1:A:1505:ILE:O	1:A:1509:ARG:HB2	2.02	0.59
1:A:1533:LEU:C	1:A:1535:LYS:H	2.08	0.59
1:A:1617:GLU:HG2	1:A:1621:LYS:HZ3	1.68	0.59
1:B:1206:TYR:CD1	1:B:1226:ARG:HG3	2.37	0.59
1:B:1277:VAL:O	1:B:1279:HIS:N	2.35	0.59
1:B:1398:VAL:HG12	1:B:1400:ASN:H	1.65	0.59
1:C:1326:LYS:O	1:C:1326:LYS:HG3	1.96	0.59
1:C:1504:LEU:CD1	2:E:149:ASN:HD21	2.05	0.59
1:A:1277:VAL:HG12	1:A:1286:LEU:HD11	1.85	0.59
1:A:1350:ARG:NE	1:A:1350:ARG:HA	2.17	0.59
1:B:1116:LEU:HD11	1:B:1143:ALA:HB1	1.83	0.59
1:B:1121:VAL:O	1:B:1123:GLU:N	2.35	0.59
1:B:1160:ALA:O	1:B:1165:ARG:N	2.34	0.59
1:C:1121:VAL:O	1:C:1123:GLU:N	2.35	0.59
1:C:1206:TYR:CD1	1:C:1226:ARG:HG3	2.37	0.59
1:C:1234:LEU:C	1:C:1236:GLU:H	2.09	0.59
1:A:1121:VAL:O	1:A:1123:GLU:N	2.35	0.59
1:A:1358:TRP:CZ3	1:A:1377:THR:HG23	2.36	0.59
1:B:1602:VAL:HG21	2:D:204:UNK:C	2.31	0.59
1:C:1277:VAL:CG2	1:C:1278:VAL:H	2.16	0.59
1:C:1546:ASP:OD2	1:C:1549:LEU:HD23	2.03	0.59
1:A:1108:TRP:CE3	1:A:1129:ILE:CD1	2.83	0.59
1:A:1254:LYS:HD2	1:A:1285:GLU:HG3	1.84	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	1.66	0.59
1:A:1578:ARG:HD3	1:A:1582:VAL:CG1	2.32	0.59
1:B:1333:ARG:HA	1:B:1360:GLU:HG2	1.83	0.59
1:C:1209:LYS:CB	1:C:1230:THR:HG22	2.26	0.59
1:C:1391:PHE:CD2	1:C:1411:TYR:OH	2.52	0.59
1:C:1401:VAL:HG22	1:C:1429:ARG:CZ	2.33	0.59
1:C:1459:ASN:HD21	1:C:1489:ASN:HB2	1.66	0.59
1:C:1571:PHE:O	1:C:1577:LEU:HD21	2.01	0.59
2:D:101:SER:O	2:D:105:TRP:HB2	2.03	0.59
2:E:120:SER:HA	2:E:123:MET:HB2	1.85	0.59
1:A:1206:TYR:CD1	1:A:1226:ARG:HG3	2.37	0.59
1:B:1293:ARG:HG3	2:D:97:GLN:OE1	2.03	0.59
1:B:1358:TRP:CZ3	1:B:1377:THR:HG23	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1505:ILE:O	1:B:1509:ARG:HB2	2.02	0.59
1:C:1161:ARG:CZ	1:C:1165:ARG:HD2	2.33	0.59
1:C:1277:VAL:O	1:C:1279:HIS:N	2.35	0.59
1:C:1401:VAL:CG2	1:C:1429:ARG:HE	2.12	0.59
1:C:1426:LEU:O	1:C:1427:SER:C	2.44	0.59
1:A:1188:GLU:CD	1:A:1191:ASN:HD22	2.11	0.59
1:A:1218:TYR:CE2	1:A:1227:LEU:HB2	2.37	0.59
1:A:1412:LEU:CB	1:A:1419:LEU:CD1	2.75	0.59
1:B:1377:THR:HA	1:B:1381:HIS:CD2	2.36	0.59
1:B:1391:PHE:CD2	1:B:1411:TYR:OH	2.52	0.59
1:B:1505:ILE:CD1	2:D:152:ASN:HB3	2.33	0.59
2:E:95:LEU:O	2:E:99:PRO:HG2	2.01	0.59
2:F:188:UNK:O	2:F:189:UNK:C	2.50	0.59
1:A:1533:LEU:HG	1:A:1535:LYS:H	1.66	0.59
1:B:1122:LYS:CA	1:B:1125:ILE:HG22	2.21	0.59
1:B:1601:GLN:HB3	1:C:1580:ASP:OD1	2.03	0.59
1:C:1225:GLY:C	1:C:1227:LEU:H	2.10	0.59
1:C:1513:TYR:CD1	1:C:1516:LYS:HE2	2.36	0.59
1:C:1602:VAL:HG22	2:E:203:UNK:C	2.31	0.59
2:E:94:ARG:C	2:E:96:THR:H	2.11	0.59
1:A:1116:LEU:HD11	1:A:1143:ALA:HB1	1.83	0.59
1:A:1225:GLY:C	1:A:1227:LEU:H	2.10	0.59
1:A:1254:LYS:HD2	1:A:1285:GLU:CG	2.33	0.59
1:A:1438:TYR:O	1:A:1442:VAL:HG21	2.02	0.59
1:A:1591:ILE:CG2	1:A:1592:MET:N	2.60	0.59
1:B:1475:GLU:HG3	2:D:145:GLN:CG	2.32	0.59
1:C:1188:GLU:CD	1:C:1191:ASN:HD22	2.11	0.59
1:C:1260:CYS:N	1:C:1293:ARG:NH1	2.51	0.59
1:C:1300:ILE:HD12	1:C:1300:ILE:O	2.03	0.59
1:C:1333:ARG:HA	1:C:1360:GLU:HG2	1.83	0.59
1:C:1505:ILE:O	1:C:1509:ARG:HB2	2.02	0.59
1:C:1617:GLU:HG2	1:C:1621:LYS:NZ	2.17	0.59
2:D:174:UNK:HA	2:D:176:UNK:C	2.32	0.59
1:A:1401:VAL:HG22	1:A:1429:ARG:CZ	2.33	0.59
1:B:1168:TYR:O	1:B:1172:GLU:HG2	2.02	0.59
1:B:1254:LYS:HD2	1:B:1285:GLU:HG3	1.84	0.59
1:B:1350:ARG:NE	1:B:1350:ARG:HA	2.17	0.59
1:B:1403:LEU:C	1:B:1403:LEU:CD1	2.75	0.59
1:C:1254:LYS:HD2	1:C:1285:GLU:CG	2.33	0.59
1:C:1438:TYR:O	1:C:1442:VAL:HG21	2.02	0.59
1:A:1382:PRO:HG3	1:A:1410:PHE:CE1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1391:PHE:CD2	1:A:1411:TYR:OH	2.52	0.58
1:A:1504:LEU:HD13	1:A:1506:GLU:HG3	1.85	0.58
1:A:1530:LYS:HG2	1:A:1531:ASP:OD1	2.03	0.58
1:A:1533:LEU:HG	1:A:1535:LYS:HB2	1.85	0.58
1:B:1459:ASN:HD21	1:B:1489:ASN:HB2	1.66	0.58
1:C:1350:ARG:HA	1:C:1350:ARG:NE	2.17	0.58
1:A:1111:LEU:HD22	1:A:1111:LEU:C	2.28	0.58
1:A:1326:LYS:O	1:A:1326:LYS:HG3	1.96	0.58
1:A:1332:MET:CG	1:A:1357:LEU:HD13	2.33	0.58
1:A:1546:ASP:OD2	1:A:1549:LEU:HD23	2.03	0.58
1:B:1111:LEU:HD21	1:B:1115:GLN:CG	2.33	0.58
1:B:1185:GLU:HG2	1:B:1185:GLU:O	2.02	0.58
1:B:1293:ARG:CG	2:D:97:GLN:OE1	2.51	0.58
1:B:1427:SER:CB	1:B:1428:PRO:CD	2.42	0.58
1:B:1591:ILE:O	1:B:1594:PHE:CB	2.51	0.58
1:C:1111:LEU:HD22	1:C:1111:LEU:C	2.28	0.58
1:C:1168:TYR:O	1:C:1172:GLU:HG2	2.02	0.58
1:C:1254:LYS:HD2	1:C:1285:GLU:HG3	1.84	0.58
1:C:1471:PHE:CB	1:C:1480:LEU:HB2	2.31	0.58
2:F:120:SER:HA	2:F:123:MET:HB2	1.85	0.58
2:F:195:UNK:C	2:F:197:UNK:CA	2.81	0.58
1:A:1404:TYR:O	1:A:1407:ALA:CB	2.52	0.58
1:A:1537:ALA:HA	1:A:1540:TYR:CE2	2.39	0.58
1:B:1292:ASP:HB3	2:D:97:GLN:CD	2.27	0.58
1:B:1357:LEU:HD23	2:D:111:LYS:HE3	1.85	0.58
1:B:1358:TRP:CH2	1:B:1381:HIS:HE1	2.02	0.58
1:B:1451:TYR:O	1:B:1455:VAL:HG21	2.03	0.58
1:B:1620:ARG:NH1	1:B:1620:ARG:HG3	2.15	0.58
1:C:1079:THR:HG21	1:C:1105:PRO:HB3	1.81	0.58
1:C:1111:LEU:HD21	1:C:1115:GLN:CG	2.33	0.58
2:D:120:SER:HA	2:D:123:MET:HB2	1.85	0.58
1:A:1161:ARG:CZ	1:A:1165:ARG:HD2	2.33	0.58
1:A:1387:LYS:HB3	1:A:1390:GLN:HB2	1.85	0.58
1:A:1428:PRO:O	1:A:1429:ARG:HB2	2.03	0.58
1:A:1591:ILE:O	1:A:1594:PHE:CB	2.51	0.58
1:B:1504:LEU:HD13	1:B:1506:GLU:HG3	1.86	0.58
1:C:1122:LYS:CG	1:C:1123:GLU:H	2.16	0.58
1:C:1253:TRP:O	1:C:1255:GLU:N	2.36	0.58
1:C:1277:VAL:HG12	1:C:1286:LEU:HD11	1.85	0.58
1:C:1472:ILE:CB	1:C:1498:ARG:HH21	2.13	0.58
1:C:1530:LYS:HG2	1:C:1531:ASP:OD1	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1537:ALA:HA	1:C:1540:TYR:CE2	2.39	0.58
1:C:1578:ARG:HD3	1:C:1582:VAL:CG1	2.32	0.58
1:C:1591:ILE:O	1:C:1594:PHE:CB	2.51	0.58
2:D:174:UNK:CB	2:D:177:UNK:CA	2.81	0.58
2:E:189:UNK:C	2:E:195:UNK:CB	2.82	0.58
1:A:1185:GLU:O	1:A:1185:GLU:HG2	2.02	0.58
1:A:1379:MET:HE1	1:A:1406:ARG:HD3	1.85	0.58
1:A:1444:GLN:NE2	2:F:131:ALA:HA	2.11	0.58
1:B:1254:LYS:HD2	1:B:1285:GLU:CG	2.33	0.58
1:B:1401:VAL:HG22	1:B:1429:ARG:CZ	2.33	0.58
1:B:1513:TYR:CD1	1:B:1516:LYS:HE2	2.36	0.58
1:C:1261:VAL:HG23	1:C:1293:ARG:HD2	1.84	0.58
2:D:99:PRO:O	2:D:102:ILE:HG12	2.02	0.58
2:E:90:ALA:N	2:E:91:GLN:HB3	2.18	0.58
1:A:1584:GLU:C	1:A:1586:ALA:N	2.60	0.58
1:B:1130:LYS:NZ	1:B:1156:TYR:O	2.26	0.58
1:B:1161:ARG:CZ	1:B:1165:ARG:HD2	2.33	0.58
1:B:1162:LYS:HZ3	1:B:1163:LYS:NZ	2.02	0.58
1:B:1326:LYS:O	1:B:1326:LYS:HG3	1.96	0.58
1:C:1161:ARG:CA	1:C:1165:ARG:HB2	2.33	0.58
1:C:1404:TYR:OH	1:C:1429:ARG:NH1	2.37	0.58
1:A:1111:LEU:HD21	1:A:1115:GLN:CG	2.33	0.58
1:A:1161:ARG:HA	1:A:1165:ARG:HB2	1.86	0.58
1:A:1253:TRP:O	1:A:1255:GLU:N	2.36	0.58
1:A:1340:TRP:CD1	1:A:1340:TRP:H	2.20	0.58
1:A:1610:VAL:O	1:A:1614:ASP:OD1	2.22	0.58
1:B:1111:LEU:HD22	1:B:1111:LEU:C	2.28	0.58
1:B:1332:MET:CG	1:B:1357:LEU:HD13	2.33	0.58
1:B:1382:PRO:HG3	1:B:1410:PHE:CE1	2.38	0.58
1:B:1530:LYS:HG2	1:B:1531:ASP:OD1	2.03	0.58
1:B:1546:ASP:OD2	1:B:1549:LEU:HD23	2.03	0.58
1:C:1079:THR:CG2	1:C:1105:PRO:CD	2.68	0.58
1:C:1185:GLU:O	1:C:1185:GLU:HG2	2.02	0.58
1:C:1240:ALA:C	1:C:1242:ASP:H	2.11	0.58
2:E:119:ALA:O	2:E:123:MET:CB	2.51	0.58
1:A:1451:TYR:O	1:A:1455:VAL:HG21	2.03	0.58
1:B:1261:VAL:HG23	1:B:1293:ARG:HD2	1.85	0.58
1:B:1401:VAL:CG2	1:B:1429:ARG:HE	2.12	0.58
1:C:1456:GLN:HG2	1:C:1487:TYR:CE2	2.39	0.58
1:C:1610:VAL:O	1:C:1614:ASP:OD1	2.22	0.58
2:D:125:GLN:CD	2:D:125:GLN:C	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1171:THR:HA	1:A:1174:ILE:HD12	1.86	0.58
1:A:1211:TYR:HB2	1:A:1231:LEU:CD1	2.34	0.58
1:A:1240:ALA:C	1:A:1242:ASP:H	2.12	0.58
1:A:1290:TYR:CE2	1:A:1299:LEU:HD13	2.34	0.58
1:B:1332:MET:HG3	1:B:1357:LEU:HD13	1.86	0.58
1:B:1387:LYS:HB3	1:B:1390:GLN:HB2	1.85	0.58
1:B:1444:GLN:HG3	2:D:134:ASP:CB	2.31	0.58
1:C:1379:MET:HE1	1:C:1406:ARG:HD3	1.85	0.58
2:E:90:ALA:N	2:E:91:GLN:CA	2.59	0.58
2:F:125:GLN:C	2:F:125:GLN:CD	2.72	0.58
1:A:1300:ILE:HD12	1:A:1300:ILE:O	2.03	0.58
1:A:1404:TYR:OH	1:A:1429:ARG:NH1	2.37	0.58
1:A:1565:CYS:HA	1:A:1596:MET:HE1	1.86	0.58
1:B:1079:THR:CG2	1:B:1105:PRO:CD	2.67	0.58
1:B:1161:ARG:CA	1:B:1165:ARG:HB2	2.33	0.58
1:B:1171:THR:HA	1:B:1174:ILE:HD12	1.86	0.58
1:B:1277:VAL:CG2	1:B:1278:VAL:H	2.16	0.58
1:B:1404:TYR:OH	1:B:1429:ARG:NH1	2.37	0.58
1:B:1472:ILE:CB	1:B:1498:ARG:HH21	2.13	0.58
1:B:1537:ALA:HA	1:B:1540:TYR:CE2	2.39	0.58
1:C:1211:TYR:HB2	1:C:1231:LEU:CD1	2.33	0.58
1:C:1325:SER:O	1:C:1355:ALA:CB	2.49	0.58
1:C:1451:TYR:O	1:C:1455:VAL:HG21	2.03	0.58
2:D:119:ALA:O	2:D:123:MET:CB	2.52	0.58
2:F:151:ILE:HG13	2:F:152:ASN:N	2.18	0.58
1:A:1456:GLN:HG2	1:A:1487:TYR:CE2	2.39	0.57
1:B:1092:LEU:C	1:B:1094:ARG:H	2.12	0.57
1:C:1332:MET:CG	1:C:1357:LEU:HD13	2.33	0.57
1:C:1481:ARG:HH11	1:C:1510:ILE:HG12	1.69	0.57
1:A:1130:LYS:NZ	1:A:1156:TYR:O	2.26	0.57
1:A:1465:GLU:O	1:A:1465:GLU:OE2	2.22	0.57
1:B:1148:GLY:CA	1:B:1150:TRP:CE3	2.82	0.57
1:B:1333:ARG:CB	1:B:1360:GLU:HG3	2.34	0.57
1:B:1456:GLN:HG2	1:B:1487:TYR:CE2	2.39	0.57
1:B:1610:VAL:O	1:B:1614:ASP:OD1	2.22	0.57
1:C:1340:TRP:H	1:C:1340:TRP:CD1	2.21	0.57
1:C:1465:GLU:O	1:C:1465:GLU:OE2	2.22	0.57
1:C:1510:ILE:O	1:C:1514:LEU:N	2.33	0.57
2:D:141:ARG:HH21	2:D:141:ARG:HB2	1.69	0.57
1:B:1188:GLU:CD	1:B:1191:ASN:HD22	2.11	0.57
1:B:1260:CYS:N	1:B:1293:ARG:NH1	2.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1395:ILE:O	1:B:1404:TYR:OH	2.17	0.57
1:C:1078:ASN:ND2	1:C:1101:ARG:CB	2.65	0.57
2:F:150:LYS:O	2:F:154:ARG:HG3	2.04	0.57
1:A:1089:ILE:HG22	1:A:1089:ILE:O	2.04	0.57
1:A:1122:LYS:HE3	1:A:1147:SER:HB2	1.87	0.57
1:A:1277:VAL:CG2	1:A:1278:VAL:H	2.16	0.57
1:A:1358:TRP:CD2	1:A:1381:HIS:CG	2.93	0.57
1:A:1387:LYS:O	1:A:1390:GLN:N	2.30	0.57
1:B:1262:ASP:H	1:B:1293:ARG:HD3	1.70	0.57
2:D:181:UNK:C	2:D:183:UNK:CA	2.82	0.57
2:E:191:UNK:O	2:E:192:UNK:CB	2.52	0.57
1:A:1161:ARG:CA	1:A:1165:ARG:HB2	2.33	0.57
1:B:1234:LEU:C	1:B:1236:GLU:H	2.09	0.57
1:B:1253:TRP:O	1:B:1255:GLU:N	2.36	0.57
1:B:1277:VAL:HG12	1:B:1286:LEU:HD11	1.85	0.57
1:B:1300:ILE:HD12	1:B:1300:ILE:O	2.03	0.57
1:B:1597:PRO:HB2	1:C:1587:TRP:HZ3	1.65	0.57
1:C:1089:ILE:HG22	1:C:1089:ILE:O	2.04	0.57
1:C:1368:TYR:HD1	1:C:1370:GLU:HG2	1.64	0.57
2:D:186:UNK:O	2:D:187:UNK:C	2.51	0.57
1:A:1279:HIS:CD2	1:A:1282:GLU:CA	2.88	0.57
1:B:1108:TRP:CE3	1:B:1129:ILE:CD1	2.83	0.57
1:B:1372:ASP:O	1:B:1376:ILE:CG1	2.48	0.57
1:C:1078:ASN:ND2	1:C:1101:ARG:CA	2.67	0.57
2:D:151:ILE:HG13	2:D:152:ASN:N	2.20	0.57
2:E:105:TRP:O	2:E:109:GLN:HG2	2.04	0.57
2:F:182:UNK:C	2:F:184:UNK:N	2.64	0.57
1:B:1240:ALA:C	1:B:1242:ASP:H	2.11	0.57
1:C:1333:ARG:CB	1:C:1360:GLU:HG3	2.35	0.57
2:E:141:ARG:HB2	2:E:141:ARG:NH2	2.20	0.57
1:A:1122:LYS:CG	1:A:1123:GLU:H	2.16	0.57
1:A:1260:CYS:N	1:A:1293:ARG:NH1	2.51	0.57
1:A:1261:VAL:HB	1:A:1293:ARG:HD3	1.87	0.57
1:B:1089:ILE:O	1:B:1089:ILE:HG22	2.04	0.57
1:B:1175:PHE:CE1	1:B:1204:ARG:HB2	2.40	0.57
1:B:1279:HIS:CD2	1:B:1282:GLU:CA	2.88	0.57
1:B:1379:MET:HE1	1:B:1406:ARG:HD3	1.85	0.57
1:B:1416:PRO:HG3	2:D:130:LYS:CG	2.33	0.57
1:B:1465:GLU:O	1:B:1465:GLU:OE2	2.22	0.57
1:B:1533:LEU:HG	1:B:1535:LYS:HB2	1.85	0.57
1:C:1171:THR:HA	1:C:1174:ILE:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1262:ASP:H	1:C:1293:ARG:HD3	1.70	0.57
1:C:1476:ASP:OD1	1:C:1479:ALA:HB3	2.05	0.57
1:A:1161:ARG:HH12	1:A:1193:PRO:HA	1.69	0.57
1:A:1236:GLU:C	1:A:1238:GLN:H	2.13	0.57
1:A:1333:ARG:CB	1:A:1360:GLU:HG3	2.35	0.57
1:A:1494:SER:HA	1:A:1497:GLN:HG3	1.86	0.57
1:B:1078:ASN:ND2	1:B:1101:ARG:CA	2.67	0.57
1:B:1404:TYR:O	1:B:1407:ALA:CB	2.52	0.57
1:B:1444:GLN:NE2	2:D:134:ASP:OD2	2.38	0.57
1:C:1161:ARG:HA	1:C:1165:ARG:HB2	1.86	0.57
1:C:1175:PHE:CE1	1:C:1204:ARG:HB2	2.40	0.57
1:C:1565:CYS:HA	1:C:1596:MET:HE1	1.86	0.57
1:A:1255:GLU:O	1:A:1258:PHE:HB3	2.05	0.57
1:A:1476:ASP:OD1	1:A:1479:ALA:HB3	2.05	0.57
1:A:1584:GLU:OE2	1:C:1598:TYR:CE1	2.58	0.57
1:B:1079:THR:CA	1:B:1102:CYS:HB3	2.33	0.57
1:B:1209:LYS:CB	1:B:1230:THR:HG22	2.26	0.57
1:C:1255:GLU:O	1:C:1258:PHE:HB3	2.05	0.57
1:C:1428:PRO:O	1:C:1429:ARG:HB2	2.04	0.57
2:F:141:ARG:HH21	2:F:141:ARG:HB2	1.70	0.57
1:A:1505:ILE:CD1	1:A:1505:ILE:H	2.18	0.56
1:B:1358:TRP:CD2	1:B:1381:HIS:CG	2.93	0.56
1:C:1279:HIS:CD2	1:C:1282:GLU:CA	2.88	0.56
1:A:1162:LYS:HZ3	1:A:1163:LYS:NZ	2.02	0.56
1:A:1524:SER:O	1:A:1527:LEU:HD13	2.05	0.56
1:A:1585:THR:O	1:A:1589:HIS:HB3	2.04	0.56
1:B:1108:TRP:CB	1:B:1134:PRO:HA	2.35	0.56
1:B:1236:GLU:C	1:B:1238:GLN:H	2.12	0.56
1:C:1122:LYS:HE3	1:C:1147:SER:HB2	1.87	0.56
1:C:1290:TYR:CE2	1:C:1299:LEU:HD13	2.34	0.56
1:C:1494:SER:HA	1:C:1497:GLN:HG3	1.86	0.56
1:C:1504:LEU:HD13	1:C:1506:GLU:HG3	1.86	0.56
1:A:1078:ASN:ND2	1:A:1101:ARG:CA	2.67	0.56
1:A:1082:VAL:HG11	1:A:1102:CYS:SG	2.45	0.56
1:A:1262:ASP:H	1:A:1293:ARG:HD3	1.70	0.56
1:A:1332:MET:HG3	1:A:1357:LEU:HD13	1.86	0.56
1:A:1372:ASP:O	1:A:1376:ILE:CG1	2.48	0.56
1:A:1472:ILE:CB	1:A:1498:ARG:HH21	2.13	0.56
1:A:1529:LYS:O	1:A:1532:SER:HB3	2.05	0.56
1:B:1082:VAL:HG11	1:B:1102:CYS:SG	2.45	0.56
1:B:1111:LEU:HD21	1:B:1115:GLN:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1161:ARG:HH12	1:B:1193:PRO:HA	1.69	0.56
1:B:1255:GLU:O	1:B:1258:PHE:HB3	2.05	0.56
1:B:1261:VAL:HB	1:B:1293:ARG:HD3	1.87	0.56
1:B:1387:LYS:O	1:B:1390:GLN:N	2.30	0.56
1:B:1494:SER:HA	1:B:1497:GLN:HG3	1.86	0.56
1:B:1529:LYS:O	1:B:1532:SER:HB3	2.05	0.56
1:C:1122:LYS:CA	1:C:1125:ILE:HG22	2.20	0.56
1:C:1358:TRP:CD2	1:C:1381:HIS:CG	2.93	0.56
1:C:1533:LEU:HG	1:C:1535:LYS:HB2	1.86	0.56
2:D:127:TRP:HD1	2:D:128:ARG:N	2.03	0.56
2:D:150:LYS:O	2:D:154:ARG:HG3	2.05	0.56
2:E:105:TRP:O	2:E:108:GLU:CG	2.51	0.56
2:E:125:GLN:C	2:E:125:GLN:CD	2.72	0.56
2:E:184:UNK:C	2:E:186:UNK:N	2.68	0.56
1:B:1514:LEU:C	1:B:1514:LEU:CD2	2.77	0.56
1:B:1565:CYS:HA	1:B:1596:MET:HE1	1.86	0.56
1:C:1261:VAL:HB	1:C:1293:ARG:HD3	1.87	0.56
1:C:1499:LEU:CB	1:C:1511:ALA:HB2	2.35	0.56
1:C:1514:LEU:C	1:C:1514:LEU:CD2	2.78	0.56
1:C:1548:GLU:CD	1:C:1548:GLU:H	2.14	0.56
1:C:1585:THR:O	1:C:1589:HIS:HB3	2.04	0.56
2:D:181:UNK:N	2:D:183:UNK:CB	2.67	0.56
2:E:118:ALA:HA	2:E:121:LYS:HZ2	1.69	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:C:1382:PRO:HG3	1:C:1410:PHE:CE1	2.38	0.56
1:C:1591:ILE:CG2	1:C:1592:MET:H	1.98	0.56
1:A:1157:LEU:O	1:A:1160:ALA:N	2.38	0.56
1:A:1416:PRO:HG2	2:F:130:LYS:HG3	1.84	0.56
1:B:1317:PHE:HD1	1:B:1339:PHE:HB3	1.71	0.56
1:B:1476:ASP:OD1	1:B:1479:ALA:HB3	2.05	0.56
2:D:141:ARG:NH2	2:D:141:ARG:HB2	2.20	0.56
2:E:127:TRP:HD1	2:E:128:ARG:N	2.03	0.56
1:A:1161:ARG:HA	1:A:1165:ARG:CB	2.35	0.56
1:A:1332:MET:HE1	1:A:1360:GLU:CD	2.31	0.56
1:B:1091:ASN:HD22	1:B:1092:LEU:N	2.04	0.56
1:B:1161:ARG:HA	1:B:1165:ARG:CB	2.35	0.56
1:B:1409:GLN:HA	1:B:1413:GLU:CB	2.34	0.56
1:B:1617:GLU:HG2	1:B:1621:LYS:HZ3	1.71	0.56
1:C:1079:THR:CA	1:C:1102:CYS:HB3	2.32	0.56
1:C:1082:VAL:HG11	1:C:1102:CYS:SG	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1092:LEU:C	1:C:1094:ARG:H	2.12	0.56
2:E:184:UNK:O	2:E:185:UNK:C	2.53	0.56
2:F:127:TRP:HD1	2:F:128:ARG:N	2.03	0.56
2:F:141:ARG:HB2	2:F:141:ARG:NH2	2.20	0.56
1:B:1122:LYS:HE3	1:B:1147:SER:HB2	1.87	0.56
1:B:1161:ARG:HA	1:B:1165:ARG:HB2	1.86	0.56
1:B:1211:TYR:HB2	1:B:1231:LEU:CD1	2.34	0.56
1:B:1387:LYS:HD2	1:B:1390:GLN:NE2	2.21	0.56
1:C:1148:GLY:CA	1:C:1150:TRP:CE3	2.82	0.56
1:C:1387:LYS:HD2	1:C:1390:GLN:NE2	2.21	0.56
1:A:1092:LEU:C	1:A:1094:ARG:H	2.12	0.56
1:C:1332:MET:HE1	1:C:1360:GLU:CD	2.31	0.56
1:A:1111:LEU:CD2	1:A:1115:GLN:HG2	2.36	0.56
1:A:1170:GLU:C	1:A:1172:GLU:N	2.63	0.56
1:A:1368:TYR:HD1	1:A:1370:GLU:HG2	1.65	0.56
1:B:1082:VAL:CG1	1:B:1083:GLN:H	2.14	0.56
1:B:1293:ARG:HG3	2:D:97:GLN:CD	2.31	0.56
1:B:1524:SER:O	1:B:1527:LEU:HD13	2.05	0.56
1:C:1404:TYR:O	1:C:1407:ALA:CB	2.51	0.56
1:A:1091:ASN:HD22	1:A:1092:LEU:N	2.04	0.55
1:A:1481:ARG:HH11	1:A:1510:ILE:HG12	1.69	0.55
1:B:1412:LEU:HA	1:B:1419:LEU:CD2	2.32	0.55
1:C:1111:LEU:HD21	1:C:1115:GLN:HG3	1.88	0.55
1:C:1161:ARG:HA	1:C:1165:ARG:CB	2.35	0.55
1:C:1167:SER:HB2	1:C:1196:ALA:C	2.31	0.55
1:C:1505:ILE:H	1:C:1505:ILE:CD1	2.18	0.55
2:F:162:GLN:O	2:F:163:GLN:C	2.48	0.55
1:A:1108:TRP:CB	1:A:1134:PRO:HA	2.36	0.55
1:A:1162:LYS:HZ2	1:A:1163:LYS:HZ3	1.54	0.55
1:A:1166:GLU:CA	1:A:1170:GLU:OE2	2.54	0.55
1:A:1448:VAL:O	1:A:1452:LEU:HG	2.06	0.55
1:B:1332:MET:HE1	1:B:1360:GLU:CD	2.31	0.55
1:B:1448:VAL:O	1:B:1452:LEU:HG	2.06	0.55
1:C:1111:LEU:CD2	1:C:1115:GLN:HG2	2.36	0.55
1:C:1261:VAL:HG13	1:C:1295:TYR:CE2	2.41	0.55
1:C:1277:VAL:CG2	1:C:1278:VAL:N	2.70	0.55
1:C:1282:GLU:C	1:C:1283:LEU:HD13	2.31	0.55
1:C:1448:VAL:O	1:C:1452:LEU:HG	2.06	0.55
1:C:1554:LEU:HA	1:C:1557:PHE:CD2	2.39	0.55
2:D:134:ASP:OD1	2:D:135:LEU:N	2.39	0.55
2:E:184:UNK:C	2:E:186:UNK:H	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:98:GLU:C	2:F:102:ILE:HG23	2.31	0.55
2:F:184:UNK:O	2:F:186:UNK:N	2.39	0.55
1:A:1387:LYS:HD2	1:A:1390:GLN:NE2	2.21	0.55
1:B:1282:GLU:C	1:B:1283:LEU:HD13	2.31	0.55
1:B:1290:TYR:CE2	1:B:1299:LEU:HD13	2.34	0.55
1:B:1428:PRO:O	1:B:1429:ARG:HB2	2.03	0.55
1:B:1469:ASN:HD22	1:B:1498:ARG:NH2	2.05	0.55
1:C:1166:GLU:CA	1:C:1170:GLU:OE2	2.54	0.55
1:C:1412:LEU:CD2	1:C:1439:PHE:CE1	2.89	0.55
1:C:1529:LYS:O	1:C:1532:SER:HB3	2.05	0.55
1:C:1533:LEU:C	1:C:1535:LYS:N	2.64	0.55
2:E:127:TRP:O	2:E:130:LYS:HB2	2.06	0.55
1:A:1150:TRP:O	1:A:1153:LEU:HB3	2.07	0.55
1:A:1158:GLN:OE1	1:A:1159:MET:HE1	2.06	0.55
1:A:1161:ARG:NE	1:A:1165:ARG:CD	2.67	0.55
1:A:1227:LEU:HD23	1:A:1227:LEU:C	2.32	0.55
1:A:1404:TYR:O	1:A:1407:ALA:N	2.40	0.55
1:B:1361:LEU:HD22	1:B:1365:TYR:HE2	1.68	0.55
1:B:1438:TYR:O	1:B:1442:VAL:HG21	2.02	0.55
1:C:1387:LYS:O	1:C:1390:GLN:N	2.30	0.55
2:E:94:ARG:O	2:E:96:THR:N	2.40	0.55
2:F:127:TRP:O	2:F:130:LYS:HB2	2.07	0.55
1:A:1082:VAL:CG1	1:A:1083:GLN:N	2.68	0.55
1:A:1167:SER:HB2	1:A:1196:ALA:C	2.31	0.55
1:A:1412:LEU:CD2	1:A:1439:PHE:CE1	2.89	0.55
1:A:1535:LYS:HE2	1:A:1535:LYS:CA	2.36	0.55
1:B:1261:VAL:HG13	1:B:1295:TYR:CE2	2.42	0.55
1:B:1292:ASP:HB2	2:D:97:GLN:CD	2.31	0.55
1:C:1108:TRP:CB	1:C:1134:PRO:HA	2.35	0.55
1:C:1332:MET:HG3	1:C:1357:LEU:HD13	1.86	0.55
1:C:1389:GLY:O	1:C:1392:LYS:N	2.39	0.55
1:A:1548:GLU:H	1:A:1548:GLU:CD	2.14	0.55
1:B:1158:GLN:CG	1:B:1159:MET:SD	2.95	0.55
1:B:1277:VAL:CG2	1:B:1278:VAL:N	2.70	0.55
1:B:1335:HIS:C	1:B:1335:HIS:ND1	2.65	0.55
1:B:1404:TYR:O	1:B:1407:ALA:N	2.40	0.55
1:B:1584:GLU:C	1:B:1586:ALA:N	2.60	0.55
1:C:1150:TRP:O	1:C:1153:LEU:HB3	2.07	0.55
1:C:1590:ASN:C	1:C:1591:ILE:HG22	2.32	0.55
2:D:127:TRP:O	2:D:130:LYS:HB2	2.06	0.55
2:E:98:GLU:HA	2:E:101:SER:CB	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:141:ARG:HB2	2:E:141:ARG:HH21	1.70	0.55
2:F:102:ILE:HG13	2:F:103:ARG:N	2.22	0.55
1:A:1282:GLU:C	1:A:1283:LEU:HD13	2.31	0.55
1:A:1408:ILE:HG22	1:A:1412:LEU:CD2	2.26	0.55
1:A:1514:LEU:C	1:A:1514:LEU:CD2	2.77	0.55
1:B:1253:TRP:HZ3	1:B:1276:ILE:CG2	1.98	0.55
1:B:1389:GLY:O	1:B:1392:LYS:N	2.39	0.55
1:C:1158:GLN:OE1	1:C:1159:MET:HE1	2.06	0.55
1:C:1162:LYS:NZ	1:C:1163:LYS:HZ1	2.04	0.55
1:C:1274:LEU:CA	1:C:1277:VAL:CG2	2.85	0.55
1:C:1524:SER:O	1:C:1527:LEU:HD13	2.06	0.55
2:D:151:ILE:CA	2:D:154:ARG:HD3	2.36	0.55
2:E:134:ASP:OD1	2:E:135:LEU:N	2.39	0.55
1:A:1082:VAL:CG1	1:A:1083:GLN:H	2.14	0.55
1:A:1188:GLU:C	1:A:1190:ILE:N	2.65	0.55
1:A:1209:LYS:HB2	1:A:1231:LEU:HD23	1.89	0.55
1:A:1510:ILE:O	1:A:1514:LEU:N	2.33	0.55
1:B:1084:VAL:O	1:B:1084:VAL:HG12	2.07	0.55
1:B:1414:PHE:O	2:D:130:LYS:NZ	2.32	0.55
1:B:1467:LEU:HG	1:B:1471:PHE:CE2	2.42	0.55
1:C:1234:LEU:HG	1:C:1235:GLY:N	2.19	0.55
1:C:1387:LYS:HB3	1:C:1390:GLN:HB2	1.85	0.55
2:D:186:UNK:O	2:D:188:UNK:N	2.39	0.55
2:F:151:ILE:CA	2:F:154:ARG:HD3	2.36	0.55
2:F:170:UNK:O	2:F:171:UNK:C	2.53	0.55
1:A:1078:ASN:ND2	1:A:1101:ARG:CB	2.65	0.55
1:A:1274:LEU:CA	1:A:1277:VAL:CG2	2.85	0.55
1:A:1376:ILE:HA	1:A:1379:MET:SD	2.47	0.55
1:A:1377:THR:CA	1:A:1381:HIS:HD2	2.20	0.55
1:A:1412:LEU:HA	1:A:1419:LEU:CD2	2.32	0.55
1:A:1590:ASN:C	1:A:1591:ILE:HG22	2.32	0.55
1:B:1166:GLU:CA	1:B:1170:GLU:OE2	2.54	0.55
1:B:1227:LEU:HD23	1:B:1227:LEU:C	2.32	0.55
1:B:1227:LEU:HD23	1:B:1228:ALA:N	2.22	0.55
1:B:1469:ASN:HD22	1:B:1498:ARG:HH22	1.55	0.55
1:C:1144:ALA:O	1:C:1145:ASN:HB2	2.07	0.55
1:C:1274:LEU:O	1:C:1277:VAL:HG22	2.07	0.55
1:C:1376:ILE:HA	1:C:1379:MET:SD	2.47	0.55
1:A:1111:LEU:HD21	1:A:1115:GLN:HG3	1.88	0.55
1:A:1227:LEU:HD23	1:A:1228:ALA:N	2.22	0.55
1:A:1317:PHE:HD1	1:A:1339:PHE:HB3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1382:PRO:HB3	2:F:123:MET:CE	2.29	0.55
1:A:1389:GLY:O	1:A:1392:LYS:N	2.39	0.55
1:A:1467:LEU:HG	1:A:1471:PHE:CE2	2.42	0.55
1:A:1586:ALA:CB	1:A:1590:ASN:OD1	2.55	0.55
1:B:1158:GLN:OE1	1:B:1159:MET:HE1	2.06	0.55
1:B:1528:CYS:O	1:B:1532:SER:HB2	2.07	0.55
1:B:1539:GLN:HE22	2:D:179:UNK:CB	2.20	0.55
1:B:1578:ARG:NH1	1:B:1583:LEU:HD23	2.20	0.55
1:C:1236:GLU:C	1:C:1238:GLN:H	2.13	0.55
1:C:1301:THR:CA	1:C:1304:GLU:HG3	2.32	0.55
1:C:1317:PHE:HD1	1:C:1339:PHE:HB3	1.71	0.55
1:C:1449:LYS:HB3	1:C:1450:PRO:CD	2.37	0.55
1:C:1469:ASN:HD22	1:C:1498:ARG:NH2	2.05	0.55
1:C:1584:GLU:C	1:C:1586:ALA:N	2.61	0.55
2:F:119:ALA:O	2:F:123:MET:CB	2.55	0.55
1:A:1079:THR:CA	1:A:1102:CYS:HB3	2.33	0.54
1:A:1274:LEU:O	1:A:1277:VAL:HG22	2.07	0.54
1:A:1279:HIS:CE1	1:A:1286:LEU:CD2	2.82	0.54
1:A:1335:HIS:C	1:A:1335:HIS:ND1	2.65	0.54
1:A:1578:ARG:NH1	1:A:1583:LEU:HD23	2.20	0.54
1:B:1209:LYS:HB2	1:B:1231:LEU:HD23	1.89	0.54
1:B:1274:LEU:O	1:B:1277:VAL:HG22	2.07	0.54
1:B:1548:GLU:H	1:B:1548:GLU:CD	2.14	0.54
1:C:1084:VAL:O	1:C:1084:VAL:HG12	2.07	0.54
1:C:1122:LYS:CE	1:C:1147:SER:HB2	2.37	0.54
1:C:1161:ARG:NE	1:C:1165:ARG:CD	2.67	0.54
1:C:1227:LEU:C	1:C:1227:LEU:HD23	2.32	0.54
1:C:1467:LEU:HG	1:C:1471:PHE:CE2	2.42	0.54
1:C:1493:ILE:HG22	1:C:1494:SER:N	2.22	0.54
1:A:1157:LEU:HD13	1:A:1173:LEU:HA	1.89	0.54
1:B:1427:SER:HB2	1:B:1428:PRO:HD2	1.85	0.54
1:C:1161:ARG:HH12	1:C:1193:PRO:HA	1.69	0.54
1:C:1528:CYS:O	1:C:1532:SER:HB2	2.07	0.54
1:C:1586:ALA:CB	1:C:1590:ASN:OD1	2.56	0.54
2:E:170:UNK:O	2:E:171:UNK:C	2.53	0.54
2:F:134:ASP:OD1	2:F:135:LEU:N	2.39	0.54
1:A:1122:LYS:CG	1:A:1123:GLU:N	2.69	0.54
1:A:1148:GLY:CA	1:A:1150:TRP:CE3	2.82	0.54
1:B:1111:LEU:CD2	1:B:1115:GLN:HG2	2.37	0.54
1:B:1122:LYS:CE	1:B:1147:SER:HB2	2.37	0.54
1:B:1170:GLU:C	1:B:1172:GLU:N	2.62	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1377:THR:CA	1:B:1381:HIS:HD2	2.20	0.54
1:C:1079:THR:O	1:C:1105:PRO:CB	2.55	0.54
1:C:1085:LEU:CD1	1:C:1098:PHE:CE1	2.84	0.54
1:C:1372:ASP:O	1:C:1376:ILE:CG1	2.48	0.54
1:A:1166:GLU:C	1:A:1170:GLU:CG	2.80	0.54
1:A:1195:ASN:O	1:A:1195:ASN:OD1	2.26	0.54
1:A:1261:VAL:HG13	1:A:1295:TYR:CE2	2.41	0.54
1:A:1469:ASN:HD22	1:A:1498:ARG:NH2	2.05	0.54
1:A:1580:ASP:CG	1:C:1605:GLU:CG	2.79	0.54
1:A:1602:VAL:HG13	2:F:203:UNK:C	2.30	0.54
1:B:1125:ILE:O	1:B:1129:ILE:CD1	2.55	0.54
1:B:1195:ASN:O	1:B:1195:ASN:OD1	2.26	0.54
1:B:1449:LYS:HB3	1:B:1450:PRO:CD	2.37	0.54
1:B:1481:ARG:HH11	1:B:1510:ILE:HG12	1.69	0.54
1:B:1601:GLN:HA	1:B:1604:LYS:HD2	1.89	0.54
1:C:1195:ASN:O	1:C:1195:ASN:OD1	2.26	0.54
1:C:1335:HIS:C	1:C:1335:HIS:ND1	2.65	0.54
1:A:1250:THR:C	1:A:1251:ARG:HG2	2.22	0.54
1:A:1590:ASN:ND2	1:A:1591:ILE:N	2.56	0.54
1:A:1601:GLN:HA	1:A:1604:LYS:HD2	1.89	0.54
1:B:1274:LEU:HA	1:B:1277:VAL:HG22	1.89	0.54
1:B:1412:LEU:CD2	1:B:1439:PHE:CE1	2.89	0.54
1:B:1493:ILE:HG22	1:B:1494:SER:N	2.22	0.54
1:C:1157:LEU:HD13	1:C:1173:LEU:HA	1.89	0.54
1:C:1227:LEU:HD23	1:C:1228:ALA:N	2.22	0.54
1:A:1078:ASN:HD22	1:A:1101:ARG:CA	2.21	0.54
1:A:1125:ILE:O	1:A:1129:ILE:CD1	2.55	0.54
1:A:1296:PHE:CZ	2:F:100:GLU:O	2.60	0.54
1:B:1159:MET:SD	1:B:1159:MET:N	2.81	0.54
1:B:1161:ARG:NE	1:B:1165:ARG:CD	2.67	0.54
1:B:1284:GLU:OE2	1:B:1284:GLU:C	2.51	0.54
1:C:1404:TYR:O	1:C:1407:ALA:N	2.40	0.54
2:F:126:GLU:HG3	2:F:130:LYS:HZ3	1.72	0.54
1:A:1144:ALA:O	1:A:1145:ASN:HB2	2.07	0.54
1:A:1296:PHE:HZ	2:F:100:GLU:O	1.90	0.54
1:A:1449:LYS:HB3	1:A:1450:PRO:CD	2.37	0.54
1:B:1167:SER:HB2	1:B:1196:ALA:C	2.31	0.54
1:B:1449:LYS:HB3	1:B:1450:PRO:HD3	1.90	0.54
1:C:1077:VAL:C	1:C:1079:THR:H	2.15	0.54
1:C:1125:ILE:O	1:C:1129:ILE:CD1	2.55	0.54
1:C:1158:GLN:CG	1:C:1159:MET:SD	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1084:VAL:O	1:A:1084:VAL:HG12	2.07	0.54
1:A:1294:GLY:HA2	1:A:1296:PHE:CZ	2.43	0.54
1:A:1294:GLY:HA3	2:F:100:GLU:O	2.05	0.54
1:A:1608:THR:HG23	1:B:1607:LEU:HD13	1.89	0.54
1:B:1078:ASN:HD22	1:B:1101:ARG:CA	2.21	0.54
1:B:1188:GLU:C	1:B:1190:ILE:N	2.65	0.54
1:C:1122:LYS:HZ2	1:C:1147:SER:HB2	1.73	0.54
1:C:1188:GLU:C	1:C:1190:ILE:N	2.65	0.54
1:C:1244:ALA:HB2	1:C:1253:TRP:HH2	1.68	0.54
2:F:127:TRP:HD1	2:F:128:ARG:HG3	1.72	0.54
1:A:1421:ASP:HA	1:A:1424:MET:SD	2.48	0.54
1:A:1493:ILE:HG22	1:A:1494:SER:N	2.22	0.54
1:B:1144:ALA:O	1:B:1145:ASN:HB2	2.07	0.54
1:B:1294:GLY:HA2	1:B:1296:PHE:CZ	2.43	0.54
1:B:1303:LEU:HD12	1:B:1320:LEU:CD1	2.34	0.54
1:B:1376:ILE:HA	1:B:1379:MET:SD	2.47	0.54
1:B:1524:SER:C	1:B:1526:GLU:H	2.16	0.54
1:B:1586:ALA:CB	1:B:1590:ASN:CG	2.81	0.54
1:B:1586:ALA:CB	1:B:1590:ASN:OD1	2.56	0.54
1:C:1108:TRP:CZ2	1:C:1129:ILE:O	2.61	0.54
1:C:1162:LYS:HZ2	1:C:1163:LYS:HZ1	1.56	0.54
1:C:1284:GLU:C	1:C:1284:GLU:OE2	2.51	0.54
1:C:1411:TYR:HA	1:C:1415:LYS:HB2	1.87	0.54
1:A:1273:GLY:C	1:A:1275:HIS:N	2.64	0.54
1:A:1528:CYS:O	1:A:1532:SER:HB2	2.07	0.54
1:B:1108:TRP:CZ2	1:B:1129:ILE:O	2.61	0.54
1:B:1234:LEU:HG	1:B:1235:GLY:N	2.20	0.54
1:B:1282:GLU:O	1:B:1283:LEU:HD13	2.08	0.54
1:B:1535:LYS:HE2	1:B:1535:LYS:CA	2.36	0.54
1:B:1590:ASN:C	1:B:1591:ILE:HG22	2.32	0.54
1:C:1159:MET:SD	1:C:1159:MET:N	2.81	0.54
1:C:1209:LYS:HB2	1:C:1231:LEU:HD23	1.89	0.54
1:C:1294:GLY:HA2	1:C:1296:PHE:CZ	2.43	0.54
1:C:1409:GLN:HA	1:C:1413:GLU:CB	2.34	0.54
1:C:1535:LYS:HE2	1:C:1535:LYS:CA	2.36	0.54
1:C:1608:THR:O	1:C:1612:LYS:HG3	2.08	0.54
2:E:89:ILE:N	2:E:90:ALA:CA	2.70	0.54
2:F:166:ALA:O	2:F:167:ASP:CB	2.55	0.54
1:A:1234:LEU:C	1:A:1236:GLU:H	2.10	0.53
1:A:1354:GLN:O	1:A:1354:GLN:HG3	2.08	0.53
1:A:1524:SER:C	1:A:1526:GLU:H	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1157:LEU:O	1:B:1160:ALA:N	2.38	0.53
1:B:1274:LEU:CA	1:B:1277:VAL:CG2	2.85	0.53
1:B:1358:TRP:HZ2	2:D:112:ARG:HH22	1.49	0.53
1:C:1091:ASN:HD22	1:C:1092:LEU:N	2.04	0.53
2:E:129:GLU:HB2	2:E:132:LYS:NZ	2.24	0.53
1:B:1077:VAL:C	1:B:1079:THR:H	2.15	0.53
1:B:1079:THR:O	1:B:1105:PRO:CB	2.55	0.53
1:B:1345:ILE:H	1:B:1346:PRO:CD	2.18	0.53
1:C:1282:GLU:O	1:C:1283:LEU:HD13	2.08	0.53
1:A:1085:LEU:C	1:A:1086:ILE:O	2.52	0.53
1:A:1282:GLU:O	1:A:1283:LEU:HD13	2.08	0.53
1:A:1449:LYS:NZ	2:F:141:ARG:HE	2.04	0.53
1:A:1586:ALA:HB3	1:A:1594:PHE:CD1	2.44	0.53
1:B:1144:ALA:CB	1:B:1153:LEU:HD13	2.38	0.53
1:B:1150:TRP:O	1:B:1153:LEU:HB3	2.07	0.53
1:B:1354:GLN:HG3	1:B:1354:GLN:O	2.08	0.53
1:B:1360:GLU:O	1:B:1364:LEU:HG	2.08	0.53
1:B:1578:ARG:HH11	1:B:1582:VAL:HG12	1.73	0.53
1:B:1590:ASN:ND2	1:B:1591:ILE:N	2.56	0.53
1:B:1608:THR:O	1:B:1612:LYS:HG3	2.08	0.53
1:C:1085:LEU:C	1:C:1086:ILE:O	2.52	0.53
1:C:1377:THR:CA	1:C:1381:HIS:HD2	2.20	0.53
1:C:1414:PHE:CE1	2:E:123:MET:HG3	2.44	0.53
1:C:1449:LYS:HB3	1:C:1450:PRO:HD3	1.90	0.53
1:C:1469:ASN:HD22	1:C:1498:ARG:HH22	1.55	0.53
1:C:1590:ASN:ND2	1:C:1591:ILE:N	2.56	0.53
1:A:1284:GLU:OE2	1:A:1284:GLU:C	2.51	0.53
1:A:1598:TYR:CD1	1:B:1584:GLU:OE2	2.62	0.53
1:B:1490:PHE:CZ	1:B:1492:ASN:CG	2.86	0.53
1:B:1570:LEU:O	1:B:1570:LEU:HD23	2.08	0.53
1:C:1159:MET:CB	1:C:1163:LYS:HE2	2.39	0.53
1:C:1598:TYR:CD2	2:E:199:UNK:CB	2.89	0.53
2:E:93:ASP:HB3	2:E:97:GLN:CG	2.38	0.53
1:A:1317:PHE:N	1:A:1317:PHE:CD2	2.63	0.53
1:A:1360:GLU:O	1:A:1364:LEU:HG	2.08	0.53
1:A:1361:LEU:HD21	1:A:1365:TYR:OH	2.09	0.53
1:A:1449:LYS:HB3	1:A:1450:PRO:HD3	1.89	0.53
1:B:1166:GLU:C	1:B:1170:GLU:CG	2.80	0.53
1:B:1353:GLU:OE2	1:B:1361:LEU:HD11	2.09	0.53
1:B:1499:LEU:CB	1:B:1511:ALA:HB2	2.35	0.53
1:B:1586:ALA:HB3	1:B:1594:PHE:CD1	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1166:GLU:C	1:C:1170:GLU:CG	2.80	0.53
1:C:1273:GLY:C	1:C:1275:HIS:N	2.64	0.53
1:C:1471:PHE:CA	1:C:1474:GLU:HG2	2.38	0.53
1:A:1077:VAL:C	1:A:1079:THR:H	2.15	0.53
1:A:1368:TYR:O	1:A:1369:GLU:HB2	2.09	0.53
1:B:1085:LEU:HD12	1:B:1095:ALA:CB	2.39	0.53
1:B:1361:LEU:HD21	1:B:1365:TYR:OH	2.09	0.53
1:B:1421:ASP:HA	1:B:1424:MET:SD	2.48	0.53
1:C:1368:TYR:O	1:C:1369:GLU:HB2	2.08	0.53
1:C:1570:LEU:O	1:C:1570:LEU:HD23	2.08	0.53
1:C:1601:GLN:HA	1:C:1604:LYS:HD2	1.90	0.53
2:E:93:ASP:HB3	2:E:97:GLN:HG3	1.90	0.53
1:A:1170:GLU:HG2	1:A:1171:THR:N	2.24	0.53
1:A:1499:LEU:CB	1:A:1511:ALA:HB2	2.35	0.53
1:A:1608:THR:O	1:A:1612:LYS:HG3	2.08	0.53
1:C:1078:ASN:HD22	1:C:1101:ARG:CA	2.21	0.53
1:C:1345:ILE:H	1:C:1346:PRO:CD	2.18	0.53
1:C:1353:GLU:OE2	1:C:1361:LEU:HD11	2.09	0.53
1:C:1361:LEU:HD22	1:C:1365:TYR:HE2	1.68	0.53
1:C:1421:ASP:HA	1:C:1424:MET:SD	2.48	0.53
2:E:178:UNK:C	2:E:180:UNK:N	2.70	0.53
1:A:1159:MET:SD	1:A:1159:MET:N	2.81	0.53
1:A:1277:VAL:HG12	1:A:1286:LEU:CD1	2.39	0.53
1:B:1142:GLN:C	1:B:1142:GLN:CD	2.77	0.53
1:B:1157:LEU:HB2	1:B:1173:LEU:HD13	1.91	0.53
1:B:1159:MET:CB	1:B:1163:LYS:HE2	2.39	0.53
1:B:1170:GLU:HG2	1:B:1171:THR:N	2.24	0.53
1:B:1278:VAL:O	1:B:1278:VAL:HG12	2.08	0.53
1:B:1358:TRP:CE3	1:B:1381:HIS:CG	2.97	0.53
1:B:1510:ILE:O	1:B:1514:LEU:N	2.33	0.53
1:B:1554:LEU:HA	1:B:1557:PHE:CD2	2.40	0.53
1:C:1142:GLN:C	1:C:1142:GLN:CD	2.77	0.53
1:C:1278:VAL:O	1:C:1278:VAL:HG12	2.08	0.53
1:C:1525:VAL:O	1:C:1525:VAL:HG22	2.08	0.53
2:D:112:ARG:O	2:D:112:ARG:NH1	2.42	0.53
2:E:151:ILE:CA	2:E:154:ARG:HD3	2.36	0.53
1:A:1108:TRP:CZ2	1:A:1129:ILE:O	2.61	0.53
1:A:1159:MET:CB	1:A:1163:LYS:HE2	2.39	0.53
1:A:1353:GLU:OE2	1:A:1361:LEU:HD11	2.09	0.53
1:A:1358:TRP:CE3	1:A:1381:HIS:CG	2.97	0.53
1:A:1469:ASN:HD22	1:A:1498:ARG:HH22	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1578:ARG:HH11	1:A:1582:VAL:HG12	1.73	0.53
1:B:1082:VAL:CG1	1:B:1083:GLN:N	2.68	0.53
1:B:1085:LEU:C	1:B:1086:ILE:O	2.52	0.53
1:B:1250:THR:C	1:B:1251:ARG:HG2	2.22	0.53
1:B:1368:TYR:O	1:B:1369:GLU:HB2	2.09	0.53
1:B:1549:LEU:O	1:B:1552:GLU:HB2	2.09	0.53
1:C:1157:LEU:HB2	1:C:1173:LEU:HD13	1.91	0.53
1:C:1162:LYS:HZ2	1:C:1163:LYS:NZ	2.06	0.53
1:C:1277:VAL:HG12	1:C:1286:LEU:CD1	2.39	0.53
1:C:1333:ARG:HB2	1:C:1360:GLU:HG3	1.89	0.53
1:A:1144:ALA:CB	1:A:1153:LEU:HD13	2.39	0.53
1:C:1144:ALA:CB	1:C:1153:LEU:HD13	2.39	0.53
2:F:180:UNK:O	2:F:181:UNK:C	2.57	0.53
1:A:1079:THR:HG21	1:A:1105:PRO:HB3	1.81	0.52
1:A:1167:SER:CA	1:A:1171:THR:CB	2.88	0.52
1:A:1566:PHE:HZ	2:F:177:UNK:HA	1.74	0.52
1:A:1584:GLU:OE2	1:C:1598:TYR:CD1	2.61	0.52
1:B:1317:PHE:N	1:B:1317:PHE:CD2	2.63	0.52
1:B:1461:LYS:HG2	1:B:1489:ASN:HD21	1.74	0.52
1:B:1578:ARG:HD3	1:B:1582:VAL:CB	2.39	0.52
1:B:1583:LEU:O	1:B:1587:TRP:CE2	2.62	0.52
1:C:1360:GLU:O	1:C:1364:LEU:HG	2.08	0.52
1:C:1578:ARG:HH11	1:C:1582:VAL:HG12	1.73	0.52
2:D:98:GLU:CB	2:D:99:PRO:HD3	2.26	0.52
2:E:155:ILE:O	2:E:156:ALA:HB3	2.09	0.52
1:A:1420:ASN:OD1	1:A:1447:LEU:O	2.27	0.52
1:A:1570:LEU:HD23	1:A:1570:LEU:O	2.08	0.52
1:B:1083:GLN:HE22	1:B:1105:PRO:N	2.08	0.52
1:B:1214:ALA:O	1:B:1218:TYR:CB	2.56	0.52
1:B:1358:TRP:CH2	1:B:1381:HIS:ND1	2.57	0.52
1:B:1578:ARG:NE	1:B:1583:LEU:HD23	2.23	0.52
1:B:1590:ASN:ND2	1:B:1591:ILE:H	2.08	0.52
1:C:1358:TRP:CE3	1:C:1381:HIS:CG	2.97	0.52
1:C:1420:ASN:OD1	1:C:1447:LEU:O	2.27	0.52
2:E:90:ALA:N	2:E:91:GLN:CB	2.67	0.52
1:A:1278:VAL:O	1:A:1278:VAL:HG12	2.08	0.52
1:A:1359:ALA:HB3	1:A:1360:GLU:OE1	2.10	0.52
1:A:1533:LEU:C	1:A:1535:LYS:N	2.64	0.52
1:B:1274:LEU:O	1:B:1278:VAL:HG23	2.10	0.52
1:B:1279:HIS:CD2	1:B:1283:LEU:N	2.78	0.52
1:B:1445:LEU:HD23	1:B:1448:VAL:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1085:LEU:HD12	1:C:1095:ALA:CB	2.39	0.52
1:C:1157:LEU:O	1:C:1160:ALA:N	2.38	0.52
1:C:1167:SER:CA	1:C:1171:THR:CB	2.87	0.52
1:C:1469:ASN:HA	1:C:1472:ILE:HD12	1.91	0.52
1:C:1524:SER:C	1:C:1526:GLU:H	2.16	0.52
2:D:102:ILE:O	2:D:106:ARG:HB2	2.09	0.52
1:A:1083:GLN:HE22	1:A:1105:PRO:N	2.07	0.52
1:A:1419:LEU:HD23	1:A:1447:LEU:CD1	2.39	0.52
1:A:1586:ALA:CB	1:A:1590:ASN:CG	2.81	0.52
1:C:1361:LEU:HD21	1:C:1365:TYR:OH	2.09	0.52
1:C:1490:PHE:CZ	1:C:1492:ASN:CG	2.86	0.52
1:C:1610:VAL:O	1:C:1614:ASP:CG	2.53	0.52
2:E:127:TRP:HD1	2:E:128:ARG:HG3	1.72	0.52
2:E:181:UNK:C	2:E:183:UNK:N	2.71	0.52
2:F:197:UNK:C	2:F:199:UNK:N	2.64	0.52
1:A:1079:THR:O	1:A:1105:PRO:CB	2.55	0.52
1:A:1085:LEU:HD12	1:A:1095:ALA:CB	2.39	0.52
1:A:1122:LYS:O	1:A:1126:ASP:N	2.43	0.52
1:A:1158:GLN:CG	1:A:1159:MET:SD	2.95	0.52
1:A:1412:LEU:HD12	1:A:1419:LEU:HD21	1.65	0.52
1:A:1610:VAL:O	1:A:1614:ASP:CG	2.53	0.52
1:B:1162:LYS:NZ	1:B:1163:LYS:HZ1	2.06	0.52
1:B:1420:ASN:OD1	1:B:1447:LEU:O	2.27	0.52
1:B:1504:LEU:HD21	2:D:152:ASN:H	1.75	0.52
1:B:1525:VAL:HG22	1:B:1525:VAL:O	2.09	0.52
1:C:1354:GLN:HG3	1:C:1354:GLN:O	2.08	0.52
1:C:1461:LYS:HG2	1:C:1489:ASN:HD21	1.74	0.52
1:C:1566:PHE:CE2	2:E:177:UNK:O	2.62	0.52
1:C:1583:LEU:O	1:C:1587:TRP:CE2	2.62	0.52
1:C:1586:ALA:CB	1:C:1590:ASN:CG	2.81	0.52
1:A:1104:GLU:O	1:A:1108:TRP:CH2	2.62	0.52
1:A:1157:LEU:HB2	1:A:1173:LEU:HD13	1.91	0.52
1:A:1415:LYS:HA	2:F:130:LYS:CD	2.30	0.52
1:A:1445:LEU:HD23	1:A:1448:VAL:HG22	1.91	0.52
1:A:1554:LEU:HA	1:A:1557:PHE:CD2	2.40	0.52
1:B:1284:GLU:O	1:B:1287:ILE:HG13	2.10	0.52
1:B:1359:ALA:HB3	1:B:1360:GLU:OE1	2.10	0.52
1:B:1577:LEU:HD23	1:B:1577:LEU:N	2.25	0.52
1:C:1083:GLN:HE22	1:C:1105:PRO:N	2.07	0.52
1:C:1258:PHE:O	1:C:1293:ARG:HD2	2.09	0.52
1:C:1279:HIS:CD2	1:C:1283:LEU:N	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1419:LEU:HD23	1:C:1447:LEU:CD1	2.39	0.52
1:C:1535:LYS:HZ3	1:C:1563:ARG:HH12	1.56	0.52
2:D:155:ILE:O	2:D:156:ALA:HB3	2.09	0.52
1:A:1112:ALA:O	1:A:1116:LEU:HD23	2.10	0.52
1:A:1125:ILE:O	1:A:1129:ILE:HD13	2.10	0.52
1:A:1158:GLN:O	1:A:1163:LYS:NZ	2.43	0.52
1:A:1253:TRP:CE3	1:A:1276:ILE:HB	2.45	0.52
1:A:1445:LEU:O	1:A:1445:LEU:HD23	2.10	0.52
1:A:1480:LEU:O	1:A:1484:ILE:HG12	2.10	0.52
1:B:1157:LEU:HD13	1:B:1173:LEU:HA	1.90	0.52
1:B:1480:LEU:O	1:B:1484:ILE:HG12	2.10	0.52
1:C:1253:TRP:CE3	1:C:1276:ILE:HB	2.45	0.52
1:C:1359:ALA:HB3	1:C:1360:GLU:OE1	2.10	0.52
2:E:98:GLU:H	2:E:99:PRO:CD	2.21	0.52
2:E:154:ARG:NH1	2:E:154:ARG:CB	2.73	0.52
2:E:203:UNK:C	2:E:203:UNK:CB	2.79	0.52
2:F:155:ILE:O	2:F:156:ALA:HB3	2.09	0.52
1:A:1250:THR:HB	1:A:1285:GLU:CD	2.35	0.52
1:A:1363:PHE:O	1:A:1366:ASP:HB3	2.10	0.52
1:A:1416:PRO:CD	2:F:130:LYS:HD3	2.27	0.52
1:A:1455:VAL:CG1	1:A:1456:GLN:H	1.96	0.52
1:A:1525:VAL:HG22	1:A:1525:VAL:O	2.09	0.52
1:B:1122:LYS:O	1:B:1126:ASP:N	2.43	0.52
1:B:1209:LYS:CB	1:B:1231:LEU:HB3	2.38	0.52
1:B:1286:LEU:O	1:B:1286:LEU:HG	2.10	0.52
1:B:1361:LEU:HD21	1:B:1365:TYR:HE2	1.37	0.52
1:B:1368:TYR:HD1	1:B:1370:GLU:HG2	1.64	0.52
1:B:1382:PRO:HG2	2:D:123:MET:HE3	1.90	0.52
1:B:1419:LEU:HD23	1:B:1447:LEU:CD1	2.39	0.52
1:B:1445:LEU:O	1:B:1445:LEU:HD23	2.10	0.52
1:B:1610:VAL:O	1:B:1614:ASP:CG	2.53	0.52
1:C:1122:LYS:O	1:C:1126:ASP:N	2.43	0.52
1:C:1284:GLU:O	1:C:1287:ILE:HG13	2.10	0.52
1:A:1577:LEU:N	1:A:1577:LEU:HD23	2.25	0.52
1:B:1234:LEU:O	1:B:1236:GLU:OE1	2.28	0.52
1:B:1585:THR:O	1:B:1589:HIS:HB3	2.04	0.52
1:C:1112:ALA:O	1:C:1116:LEU:HD23	2.10	0.52
1:C:1209:LYS:CB	1:C:1231:LEU:HB3	2.38	0.52
1:C:1577:LEU:N	1:C:1577:LEU:HD23	2.25	0.52
2:D:154:ARG:NH1	2:D:154:ARG:CB	2.73	0.52
1:A:1258:PHE:O	1:A:1293:ARG:CZ	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1259:ALA:HA	1:A:1293:ARG:CZ	2.40	0.52
1:A:1601:GLN:CG	1:A:1604:LYS:HD2	2.38	0.52
1:B:1330:GLN:CG	1:B:1331:LYS:H	2.21	0.52
1:B:1332:MET:O	1:B:1336:LEU:HG	2.11	0.52
1:B:1613:LEU:O	1:B:1616:SER:HB2	2.10	0.52
1:C:1259:ALA:HA	1:C:1293:ARG:CZ	2.40	0.52
2:F:154:ARG:NH1	2:F:154:ARG:CB	2.73	0.52
1:A:1122:LYS:CE	1:A:1147:SER:HB2	2.37	0.51
1:A:1142:GLN:C	1:A:1142:GLN:CD	2.77	0.51
1:A:1420:ASN:ND2	1:A:1447:LEU:HD13	2.25	0.51
1:A:1586:ALA:CB	1:A:1594:PHE:CD1	2.93	0.51
1:B:1125:ILE:O	1:B:1129:ILE:HD13	2.10	0.51
1:B:1167:SER:CA	1:B:1171:THR:CB	2.88	0.51
1:B:1258:PHE:O	1:B:1293:ARG:CZ	2.58	0.51
1:B:1382:PRO:CG	1:B:1410:PHE:HE1	2.22	0.51
1:B:1601:GLN:CG	1:B:1604:LYS:HD2	2.39	0.51
1:C:1345:ILE:N	1:C:1346:PRO:HD2	2.19	0.51
1:C:1420:ASN:HD21	1:C:1447:LEU:HD13	1.75	0.51
2:E:133:LYS:HA	2:E:133:LYS:HZ2	1.72	0.51
1:A:1148:GLY:C	1:A:1150:TRP:CE3	2.89	0.51
1:A:1274:LEU:O	1:A:1278:VAL:HG23	2.10	0.51
1:A:1356:HIS:ND1	2:F:112:ARG:NH2	2.42	0.51
1:B:1277:VAL:HG12	1:B:1286:LEU:CD1	2.39	0.51
1:B:1343:VAL:HG22	1:B:1344:ASN:N	2.25	0.51
1:B:1513:TYR:HD1	1:B:1516:LYS:CE	2.22	0.51
1:C:1286:LEU:HG	1:C:1286:LEU:O	2.10	0.51
1:C:1480:LEU:O	1:C:1484:ILE:HG12	2.10	0.51
2:F:188:UNK:O	2:F:191:UNK:N	2.43	0.51
1:A:1085:LEU:HB3	1:A:1098:PHE:CZ	2.46	0.51
1:A:1232:VAL:CG2	1:A:1233:HIS:H	2.09	0.51
1:A:1284:GLU:O	1:A:1287:ILE:HG13	2.10	0.51
1:A:1336:LEU:CD1	1:A:1360:GLU:HB3	2.40	0.51
1:A:1375:ILE:CD1	1:A:1394:ILE:HB	2.39	0.51
1:A:1469:ASN:HA	1:A:1472:ILE:HD12	1.91	0.51
1:A:1469:ASN:ND2	1:A:1498:ARG:HH22	2.09	0.51
1:A:1578:ARG:HD3	1:A:1582:VAL:CB	2.40	0.51
1:A:1583:LEU:O	1:A:1587:TRP:CE2	2.62	0.51
1:B:1362:VAL:CG2	1:B:1377:THR:CB	2.82	0.51
1:B:1401:VAL:HG22	1:B:1429:ARG:NH2	2.26	0.51
1:C:1170:GLU:C	1:C:1172:GLU:N	2.63	0.51
1:C:1423:LEU:HD12	1:C:1451:TYR:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1506:GLU:O	1:C:1510:ILE:HG13	2.10	0.51
1:C:1549:LEU:O	1:C:1552:GLU:HB2	2.09	0.51
1:C:1578:ARG:HD3	1:C:1582:VAL:CB	2.40	0.51
1:C:1586:ALA:HB3	1:C:1594:PHE:CD1	2.44	0.51
2:D:124:GLU:HA	2:D:127:TRP:CE2	2.45	0.51
2:E:114:GLN:CG	2:E:115:GLU:N	2.26	0.51
2:F:103:ARG:HG3	2:F:103:ARG:O	2.10	0.51
1:A:1234:LEU:HG	1:A:1235:GLY:N	2.20	0.51
1:A:1240:ALA:O	1:A:1275:HIS:CE1	2.63	0.51
1:A:1258:PHE:O	1:A:1293:ARG:HD2	2.09	0.51
1:A:1270:GLN:CD	1:A:1298:GLU:CB	2.84	0.51
1:A:1332:MET:O	1:A:1336:LEU:HG	2.11	0.51
1:B:1148:GLY:C	1:B:1150:TRP:CE3	2.89	0.51
1:B:1235:GLY:O	1:B:1236:GLU:HB2	2.11	0.51
1:B:1258:PHE:O	1:B:1293:ARG:HD2	2.09	0.51
1:B:1482:THR:HA	1:B:1485:ASP:CG	2.36	0.51
1:B:1492:ASN:C	1:B:1493:ILE:CG1	2.83	0.51
1:C:1130:LYS:NZ	1:C:1156:TYR:O	2.26	0.51
1:C:1157:LEU:HD12	1:C:1173:LEU:HA	1.93	0.51
1:C:1170:GLU:HG2	1:C:1171:THR:N	2.24	0.51
1:C:1274:LEU:O	1:C:1278:VAL:HG23	2.10	0.51
1:C:1332:MET:O	1:C:1336:LEU:HG	2.10	0.51
1:C:1387:LYS:HB2	1:C:1390:GLN:CG	2.40	0.51
1:C:1401:VAL:HG22	1:C:1429:ARG:NH2	2.26	0.51
1:C:1445:LEU:HD23	1:C:1448:VAL:HG22	1.91	0.51
1:C:1469:ASN:HD21	1:C:1498:ARG:HH12	1.59	0.51
1:C:1494:SER:O	1:C:1497:GLN:HB2	2.11	0.51
2:D:127:TRP:HD1	2:D:128:ARG:HG3	1.72	0.51
1:A:1375:ILE:HA	1:A:1378:MET:HE3	1.93	0.51
1:A:1549:LEU:O	1:A:1552:GLU:HB2	2.10	0.51
1:A:1590:ASN:ND2	1:A:1591:ILE:H	2.08	0.51
1:B:1250:THR:CB	1:B:1285:GLU:OE1	2.58	0.51
1:B:1504:LEU:HD23	2:D:152:ASN:HB2	1.67	0.51
1:B:1617:GLU:CG	1:B:1621:LYS:HZ2	2.23	0.51
1:C:1162:LYS:HZ3	1:C:1163:LYS:NZ	2.06	0.51
1:C:1272:CYS:HA	1:C:1275:HIS:CB	2.41	0.51
2:D:154:ARG:HB3	2:D:154:ARG:CZ	2.40	0.51
2:F:124:GLU:HA	2:F:127:TRP:CE2	2.45	0.51
1:A:1195:ASN:O	1:A:1196:ALA:CB	2.59	0.51
1:A:1279:HIS:CD2	1:A:1283:LEU:N	2.78	0.51
1:A:1420:ASN:HD21	1:A:1447:LEU:HD13	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1461:LYS:HG2	1:A:1489:ASN:HD21	1.74	0.51
1:B:1469:ASN:ND2	1:B:1498:ARG:HH22	2.09	0.51
1:B:1591:ILE:O	1:B:1592:MET:C	2.53	0.51
1:C:1125:ILE:O	1:C:1129:ILE:HD13	2.10	0.51
1:C:1148:GLY:C	1:C:1150:TRP:CE3	2.89	0.51
1:C:1151:GLU:O	1:C:1151:GLU:HG2	2.10	0.51
1:C:1262:ASP:N	1:C:1293:ARG:HD3	2.26	0.51
1:C:1420:ASN:ND2	1:C:1447:LEU:HD13	2.26	0.51
2:F:91:GLN:OE1	2:F:95:LEU:HG	2.11	0.51
1:A:1277:VAL:C	1:A:1279:HIS:HD1	2.19	0.51
1:A:1286:LEU:HG	1:A:1286:LEU:O	2.10	0.51
1:A:1494:SER:O	1:A:1497:GLN:HB2	2.10	0.51
1:A:1577:LEU:C	1:A:1579:PRO:HD3	2.36	0.51
1:B:1112:ALA:O	1:B:1116:LEU:HD23	2.10	0.51
1:B:1161:ARG:O	1:B:1165:ARG:CB	2.59	0.51
1:B:1259:ALA:HA	1:B:1293:ARG:CZ	2.41	0.51
1:B:1279:HIS:NE2	1:B:1283:LEU:CA	2.73	0.51
1:B:1363:PHE:O	1:B:1366:ASP:HB3	2.10	0.51
1:B:1469:ASN:HA	1:B:1472:ILE:HD12	1.91	0.51
1:B:1506:GLU:O	1:B:1510:ILE:HG13	2.10	0.51
1:B:1586:ALA:CB	1:B:1594:PHE:CD1	2.93	0.51
1:C:1208:GLU:OE1	1:C:1208:GLU:HA	2.11	0.51
1:C:1214:ALA:O	1:C:1218:TYR:CB	2.56	0.51
1:C:1586:ALA:CB	1:C:1594:PHE:CD1	2.93	0.51
1:C:1590:ASN:ND2	1:C:1591:ILE:H	2.08	0.51
1:C:1613:LEU:O	1:C:1616:SER:HB2	2.10	0.51
2:E:154:ARG:HB3	2:E:154:ARG:CZ	2.40	0.51
2:F:129:GLU:HB2	2:F:132:LYS:NZ	2.24	0.51
1:A:1234:LEU:O	1:A:1236:GLU:OE1	2.28	0.51
1:A:1279:HIS:NE2	1:A:1283:LEU:CA	2.73	0.51
1:A:1303:LEU:HD12	1:A:1320:LEU:CD1	2.34	0.51
1:A:1361:LEU:HD22	1:A:1365:TYR:HE2	1.68	0.51
1:A:1474:GLU:O	2:F:145:GLN:OE1	2.28	0.51
1:A:1506:GLU:O	1:A:1510:ILE:HG13	2.10	0.51
1:B:1078:ASN:ND2	1:B:1101:ARG:CB	2.65	0.51
1:B:1272:CYS:HA	1:B:1275:HIS:CB	2.41	0.51
1:B:1420:ASN:ND2	1:B:1447:LEU:HD13	2.26	0.51
1:B:1577:LEU:C	1:B:1579:PRO:HD3	2.36	0.51
1:B:1591:ILE:CG2	1:B:1592:MET:N	2.60	0.51
1:C:1165:ARG:HG3	1:C:1170:GLU:OE1	2.11	0.51
1:C:1240:ALA:O	1:C:1275:HIS:CE1	2.63	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1363:PHE:O	1:C:1366:ASP:HB3	2.10	0.51
1:C:1578:ARG:NH1	1:C:1583:LEU:HD23	2.20	0.51
2:D:133:LYS:HA	2:D:133:LYS:CE	2.41	0.51
2:F:154:ARG:HB3	2:F:154:ARG:CZ	2.40	0.51
1:A:1161:ARG:O	1:A:1165:ARG:CB	2.59	0.51
1:A:1471:PHE:CA	1:A:1474:GLU:HG2	2.38	0.51
1:A:1597:PRO:HB3	1:A:1601:GLN:NE2	2.25	0.51
1:B:1162:LYS:NZ	1:B:1163:LYS:HZ3	2.07	0.51
1:B:1253:TRP:CE3	1:B:1276:ILE:HB	2.45	0.51
1:B:1262:ASP:H	1:B:1293:ARG:NH1	2.09	0.51
1:B:1293:ARG:HA	2:D:97:GLN:OE1	2.05	0.51
1:B:1420:ASN:HD21	1:B:1447:LEU:HD13	1.75	0.51
1:C:1317:PHE:CD1	1:C:1339:PHE:HB3	2.46	0.51
1:C:1358:TRP:CE2	1:C:1381:HIS:CG	2.99	0.51
1:C:1482:THR:HA	1:C:1485:ASP:CG	2.36	0.51
1:C:1591:ILE:O	1:C:1592:MET:C	2.53	0.51
1:A:1198:ILE:HA	1:A:1201:VAL:CG2	2.41	0.51
1:A:1235:GLY:O	1:A:1236:GLU:HB2	2.10	0.51
1:A:1317:PHE:CD1	1:A:1339:PHE:HB3	2.46	0.51
1:A:1327:PHE:HB3	2:F:104:LYS:NZ	2.24	0.51
1:A:1358:TRP:NE1	2:F:112:ARG:HH22	2.07	0.51
1:A:1625:GLN:HE22	1:B:1621:LYS:NZ	2.09	0.51
1:C:1158:GLN:O	1:C:1163:LYS:NZ	2.43	0.51
1:C:1234:LEU:CG	1:C:1235:GLY:N	2.74	0.51
1:C:1258:PHE:O	1:C:1293:ARG:CZ	2.58	0.51
1:C:1262:ASP:H	1:C:1293:ARG:NH1	2.09	0.51
1:C:1578:ARG:NE	1:C:1583:LEU:HD23	2.23	0.51
1:C:1601:GLN:CG	1:C:1604:LYS:HD2	2.39	0.51
1:A:1157:LEU:HD12	1:A:1173:LEU:HA	1.93	0.50
1:A:1208:GLU:OE1	1:A:1208:GLU:HA	2.11	0.50
1:A:1209:LYS:CB	1:A:1231:LEU:HB3	2.38	0.50
1:A:1214:ALA:O	1:A:1218:TYR:CB	2.56	0.50
1:A:1343:VAL:HG22	1:A:1344:ASN:N	2.25	0.50
1:A:1356:HIS:CD2	2:F:112:ARG:HA	2.34	0.50
1:A:1490:PHE:CZ	1:A:1492:ASN:CG	2.86	0.50
1:B:1250:THR:HB	1:B:1285:GLU:CD	2.35	0.50
1:C:1234:LEU:O	1:C:1236:GLU:OE1	2.28	0.50
1:C:1445:LEU:O	1:C:1445:LEU:HD23	2.10	0.50
2:D:203:UNK:O	2:D:204:UNK:C	2.59	0.50
2:E:124:GLU:HA	2:E:127:TRP:CE2	2.46	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:F:118:ALA:CA	2:F:121:LYS:HE3	2.41	0.50
1:A:1272:CYS:HA	1:A:1275:HIS:CB	2.41	0.50
1:A:1591:ILE:O	1:A:1592:MET:C	2.53	0.50
1:B:1085:LEU:HB3	1:B:1098:PHE:CZ	2.46	0.50
1:B:1273:GLY:C	1:B:1275:HIS:N	2.64	0.50
1:B:1358:TRP:CE2	1:B:1381:HIS:CG	2.99	0.50
1:B:1402:GLU:C	1:B:1402:GLU:CD	2.79	0.50
1:B:1469:ASN:HD21	1:B:1498:ARG:HH12	1.58	0.50
1:B:1494:SER:O	1:B:1497:GLN:HB2	2.10	0.50
1:B:1505:ILE:H	1:B:1505:ILE:CD1	2.18	0.50
1:B:1609:LYS:O	1:B:1612:LYS:HB2	2.12	0.50
1:C:1168:TYR:O	1:C:1172:GLU:CG	2.59	0.50
1:C:1235:GLY:O	1:C:1236:GLU:HB2	2.11	0.50
1:C:1279:HIS:NE2	1:C:1283:LEU:CA	2.74	0.50
1:C:1330:GLN:CG	1:C:1331:LYS:H	2.21	0.50
1:A:1149:ASN:O	1:A:1153:LEU:HB3	2.12	0.50
1:A:1358:TRP:CE2	1:A:1381:HIS:CG	2.99	0.50
1:A:1407:ALA:C	1:A:1409:GLN:H	2.19	0.50
1:B:1122:LYS:HZ1	1:B:1147:SER:HG	1.49	0.50
1:B:1158:GLN:O	1:B:1163:LYS:NZ	2.43	0.50
1:B:1240:ALA:O	1:B:1275:HIS:CE1	2.63	0.50
1:B:1572:THR:HG21	1:B:1599:PHE:CE2	2.46	0.50
1:C:1104:GLU:O	1:C:1108:TRP:CH2	2.62	0.50
1:C:1104:GLU:O	1:C:1108:TRP:HZ2	1.87	0.50
1:C:1161:ARG:O	1:C:1165:ARG:CB	2.59	0.50
1:C:1250:THR:HB	1:C:1285:GLU:CD	2.35	0.50
2:E:118:ALA:CA	2:E:121:LYS:HE3	2.41	0.50
1:A:1159:MET:HA	1:A:1163:LYS:HE2	1.70	0.50
1:A:1262:ASP:N	1:A:1293:ARG:HD3	2.26	0.50
1:A:1435:ALA:O	1:A:1439:PHE:CD2	2.64	0.50
1:A:1474:GLU:C	1:A:1475:GLU:HG3	2.36	0.50
1:A:1613:LEU:O	1:A:1616:SER:HB2	2.10	0.50
1:B:1122:LYS:CG	1:B:1123:GLU:H	2.16	0.50
1:B:1168:TYR:O	1:B:1172:GLU:CG	2.59	0.50
1:B:1262:ASP:N	1:B:1293:ARG:HD3	2.26	0.50
1:B:1375:ILE:CD1	1:B:1394:ILE:HB	2.39	0.50
1:B:1423:LEU:HD12	1:B:1451:TYR:HB2	1.92	0.50
1:C:1195:ASN:O	1:C:1196:ALA:CB	2.59	0.50
1:C:1251:ARG:O	1:C:1252:THR:OG1	2.19	0.50
1:C:1566:PHE:HE2	2:E:177:UNK:O	1.94	0.50
1:A:1168:TYR:O	1:A:1172:GLU:CG	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1382:PRO:CG	1:A:1410:PHE:HE1	2.22	0.50
1:A:1401:VAL:HG22	1:A:1429:ARG:NH2	2.26	0.50
1:A:1572:THR:HG21	1:A:1599:PHE:CE2	2.46	0.50
1:B:1157:LEU:HD12	1:B:1173:LEU:HA	1.93	0.50
1:B:1402:GLU:HA	1:B:1405:TYR:CD2	2.47	0.50
1:B:1416:PRO:HG3	2:D:130:LYS:HG2	1.91	0.50
1:C:1166:GLU:CD	1:C:1169:VAL:HG23	2.32	0.50
1:C:1343:VAL:HG22	1:C:1344:ASN:N	2.25	0.50
1:C:1402:GLU:C	1:C:1402:GLU:CD	2.79	0.50
1:C:1469:ASN:ND2	1:C:1498:ARG:HH22	2.09	0.50
1:C:1572:THR:HG21	1:C:1599:PHE:CE2	2.46	0.50
2:F:127:TRP:CD1	2:F:128:ARG:N	2.80	0.50
1:A:1165:ARG:HG3	1:A:1170:GLU:OE1	2.11	0.50
1:A:1166:GLU:CD	1:A:1169:VAL:HG23	2.32	0.50
1:A:1448:VAL:CA	1:A:1451:TYR:HB3	2.42	0.50
1:B:1273:GLY:O	1:B:1277:VAL:HG13	2.12	0.50
1:B:1281:ASP:O	1:B:1281:ASP:OD1	2.30	0.50
1:B:1317:PHE:CD1	1:B:1339:PHE:HB3	2.46	0.50
1:B:1336:LEU:CD1	1:B:1360:GLU:HB3	2.40	0.50
1:C:1085:LEU:HB3	1:C:1098:PHE:CZ	2.46	0.50
1:C:1302:MET:C	1:C:1304:GLU:N	2.69	0.50
1:C:1375:ILE:CD1	1:C:1394:ILE:HB	2.39	0.50
1:C:1405:TYR:CE2	1:C:1434:ARG:NH1	2.80	0.50
1:C:1597:PRO:HB3	1:C:1601:GLN:NE2	2.25	0.50
1:C:1609:LYS:O	1:C:1612:LYS:HB2	2.11	0.50
2:D:129:GLU:HB2	2:D:132:LYS:NZ	2.24	0.50
2:D:188:UNK:C	2:D:190:UNK:H2	2.24	0.50
2:F:192:UNK:O	2:F:195:UNK:CB	2.60	0.50
1:A:1135:SER:O	1:A:1136:SER:CB	2.60	0.50
1:A:1262:ASP:H	1:A:1293:ARG:NH1	2.09	0.50
1:A:1402:GLU:C	1:A:1402:GLU:CD	2.79	0.50
1:B:1165:ARG:HG3	1:B:1170:GLU:OE1	2.11	0.50
1:B:1175:PHE:HE1	1:B:1200:GLN:HB3	1.77	0.50
1:B:1198:ILE:HA	1:B:1201:VAL:CG2	2.41	0.50
1:B:1270:GLN:CD	1:B:1298:GLU:CB	2.84	0.50
1:B:1375:ILE:HA	1:B:1378:MET:HE3	1.93	0.50
1:B:1496:ALA:HB2	1:B:1514:LEU:HD13	1.94	0.50
1:C:1080:SER:C	1:C:1082:VAL:N	2.70	0.50
1:C:1135:SER:O	1:C:1136:SER:HB2	2.11	0.50
1:C:1162:LYS:NZ	1:C:1163:LYS:HZ2	2.09	0.50
1:C:1270:GLN:NE2	1:C:1295:TYR:CE1	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1412:LEU:HA	1:C:1419:LEU:CD2	2.32	0.50
1:C:1448:VAL:CA	1:C:1451:TYR:HB3	2.42	0.50
1:C:1513:TYR:HA	1:C:1516:LYS:HE2	1.93	0.50
2:D:127:TRP:CD1	2:D:128:ARG:N	2.80	0.50
2:F:114:GLN:CG	2:F:115:GLU:N	2.26	0.50
1:A:1281:ASP:OD1	1:A:1281:ASP:O	2.30	0.50
1:A:1455:VAL:O	1:A:1456:GLN:HB3	2.12	0.50
1:A:1482:THR:HA	1:A:1485:ASP:CG	2.36	0.50
1:B:1085:LEU:CD1	1:B:1098:PHE:CE1	2.84	0.50
1:B:1166:GLU:CD	1:B:1169:VAL:HG23	2.32	0.50
1:B:1270:GLN:NE2	1:B:1295:TYR:CE1	2.80	0.50
1:B:1377:THR:O	1:B:1381:HIS:HB2	2.11	0.50
1:B:1395:ILE:CD1	1:B:1403:LEU:HD12	2.42	0.50
1:B:1458:HIS:C	1:B:1460:ASN:H	2.20	0.50
1:B:1474:GLU:C	1:B:1475:GLU:HG3	2.36	0.50
1:C:1167:SER:OG	1:C:1168:TYR:N	2.42	0.50
1:C:1273:GLY:O	1:C:1277:VAL:HG13	2.12	0.50
1:C:1382:PRO:CG	1:C:1410:PHE:HE1	2.22	0.50
1:C:1422:LEU:O	1:C:1422:LEU:HD22	2.12	0.50
1:C:1474:GLU:C	1:C:1475:GLU:HG3	2.36	0.50
1:C:1577:LEU:C	1:C:1579:PRO:HD3	2.36	0.50
2:D:178:UNK:O	2:D:181:UNK:CB	2.60	0.50
1:A:1148:GLY:HA3	1:A:1150:TRP:CZ3	2.41	0.50
1:A:1167:SER:CA	1:A:1171:THR:HB	2.41	0.50
1:A:1193:PRO:O	1:A:1194:ASN:C	2.55	0.50
1:A:1263:GLY:O	1:A:1264:LYS:CB	2.60	0.50
1:A:1270:GLN:NE2	1:A:1295:TYR:CE1	2.80	0.50
1:A:1496:ALA:HB2	1:A:1514:LEU:HD13	1.94	0.50
1:A:1609:LYS:O	1:A:1612:LYS:HB2	2.11	0.50
1:B:1263:GLY:O	1:B:1264:LYS:CB	2.60	0.50
1:B:1533:LEU:C	1:B:1535:LYS:N	2.64	0.50
1:C:1130:LYS:CB	1:C:1156:TYR:CE1	2.94	0.50
1:C:1377:THR:O	1:C:1381:HIS:HB2	2.11	0.50
1:C:1435:ALA:O	1:C:1439:PHE:CD2	2.64	0.50
1:C:1496:ALA:HB2	1:C:1514:LEU:HD13	1.94	0.50
1:C:1578:ARG:CD	1:C:1582:VAL:HB	2.42	0.50
2:E:127:TRP:CD1	2:E:128:ARG:N	2.80	0.50
2:F:178:UNK:C	2:F:180:UNK:N	2.74	0.50
1:A:1250:THR:CB	1:A:1285:GLU:OE1	2.58	0.49
1:A:1402:GLU:HA	1:A:1405:TYR:CD2	2.47	0.49
1:A:1469:ASN:HD21	1:A:1498:ARG:HH12	1.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1167:SER:CA	1:B:1171:THR:HB	2.41	0.49
1:B:1208:GLU:OE1	1:B:1208:GLU:HA	2.11	0.49
1:B:1345:ILE:N	1:B:1346:PRO:HD2	2.20	0.49
1:C:1108:TRP:CE3	1:C:1129:ILE:CD1	2.83	0.49
1:C:1301:THR:O	1:C:1304:GLU:HB2	2.12	0.49
1:C:1389:GLY:O	1:C:1392:LYS:HB2	2.12	0.49
1:C:1407:ALA:C	1:C:1409:GLN:H	2.19	0.49
1:C:1452:LEU:HD13	1:C:1467:LEU:CD1	2.42	0.49
1:C:1455:VAL:O	1:C:1456:GLN:HB3	2.12	0.49
2:F:112:ARG:C	2:F:113:LEU:O	2.54	0.49
2:F:118:ALA:HA	2:F:121:LYS:HZ2	1.74	0.49
1:A:1080:SER:C	1:A:1082:VAL:N	2.70	0.49
1:A:1135:SER:O	1:A:1136:SER:HB2	2.12	0.49
1:A:1193:PRO:HG2	1:A:1194:ASN:H	1.78	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:B:1135:SER:O	1:B:1136:SER:CB	2.60	0.49
1:B:1162:LYS:HZ2	1:B:1163:LYS:NZ	2.10	0.49
1:B:1195:ASN:O	1:B:1196:ALA:CB	2.59	0.49
1:B:1301:THR:O	1:B:1304:GLU:HB2	2.12	0.49
1:B:1448:VAL:CA	1:B:1451:TYR:HB3	2.42	0.49
1:A:1301:THR:CA	1:A:1304:GLU:HG3	2.31	0.49
1:A:1452:LEU:HD13	1:A:1467:LEU:CD1	2.42	0.49
1:B:1407:ALA:C	1:B:1409:GLN:H	2.19	0.49
1:B:1518:ASN:CG	1:B:1518:ASN:O	2.54	0.49
1:C:1149:ASN:O	1:C:1153:LEU:HB3	2.12	0.49
1:C:1198:ILE:HA	1:C:1201:VAL:CG2	2.41	0.49
1:C:1395:ILE:CD1	1:C:1403:LEU:HD12	2.42	0.49
2:E:112:ARG:HD3	2:E:113:LEU:N	2.27	0.49
2:F:94:ARG:NE	2:F:98:GLU:OE2	2.39	0.49
2:F:99:PRO:HA	2:F:102:ILE:HG12	1.93	0.49
1:A:1167:SER:CA	1:A:1171:THR:H	2.24	0.49
1:A:1395:ILE:CD1	1:A:1403:LEU:HD12	2.42	0.49
1:A:1409:GLN:HA	1:A:1413:GLU:CB	2.34	0.49
1:A:1423:LEU:HD12	1:A:1451:TYR:HB2	1.92	0.49
1:A:1458:HIS:C	1:A:1460:ASN:H	2.20	0.49
1:A:1513:TYR:HA	1:A:1516:LYS:HE2	1.93	0.49
1:B:1166:GLU:CD	1:B:1169:VAL:CG2	2.85	0.49
1:B:1435:ALA:O	1:B:1439:PHE:CD2	2.65	0.49
1:C:1135:SER:O	1:C:1136:SER:CB	2.59	0.49
1:C:1281:ASP:OD1	1:C:1281:ASP:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1282:GLU:C	1:C:1283:LEU:CD1	2.85	0.49
1:C:1375:ILE:HA	1:C:1378:MET:HE3	1.93	0.49
1:C:1402:GLU:HA	1:C:1405:TYR:CD2	2.47	0.49
1:C:1456:GLN:O	1:C:1456:GLN:HG3	2.05	0.49
2:D:155:ILE:O	2:D:156:ALA:CB	2.60	0.49
2:F:133:LYS:HA	2:F:133:LYS:CE	2.41	0.49
1:A:1103:ASN:HA	1:A:1128:TYR:HE2	1.78	0.49
1:A:1166:GLU:CD	1:A:1169:VAL:CG2	2.85	0.49
1:A:1277:VAL:CG2	1:A:1278:VAL:N	2.70	0.49
1:A:1377:THR:O	1:A:1381:HIS:HB2	2.11	0.49
1:A:1389:GLY:O	1:A:1392:LYS:HB2	2.12	0.49
1:C:1166:GLU:CD	1:C:1169:VAL:CG2	2.85	0.49
2:F:154:ARG:CB	2:F:154:ARG:HH11	2.26	0.49
2:F:182:UNK:O	2:F:183:UNK:C	2.61	0.49
1:A:1416:PRO:O	1:A:1417:LEU:C	2.56	0.49
1:A:1513:TYR:HA	1:A:1516:LYS:HG2	1.95	0.49
1:B:1078:ASN:ND2	1:B:1101:ARG:HB3	2.08	0.49
1:B:1104:GLU:O	1:B:1108:TRP:CH2	2.62	0.49
1:B:1230:THR:O	1:B:1231:LEU:CB	2.61	0.49
1:B:1452:LEU:HD13	1:B:1467:LEU:CD1	2.42	0.49
1:B:1546:ASP:O	1:B:1547:THR:C	2.56	0.49
1:C:1111:LEU:O	1:C:1115:GLN:HB2	2.13	0.49
1:C:1336:LEU:CD1	1:C:1360:GLU:HB3	2.40	0.49
1:C:1408:ILE:HG22	1:C:1412:LEU:CG	2.41	0.49
1:C:1592:MET:HE2	1:C:1592:MET:HA	1.94	0.49
1:A:1422:LEU:O	1:A:1422:LEU:HD22	2.12	0.49
1:B:1211:TYR:CZ	1:B:1235:GLY:HA3	2.48	0.49
1:B:1282:GLU:C	1:B:1283:LEU:CD1	2.85	0.49
1:B:1389:GLY:O	1:B:1392:LYS:HB2	2.13	0.49
1:C:1167:SER:CA	1:C:1171:THR:OG1	2.61	0.49
1:C:1193:PRO:O	1:C:1194:ASN:C	2.55	0.49
1:C:1546:ASP:O	1:C:1547:THR:C	2.56	0.49
2:D:152:ASN:O	2:D:153:ASN:CB	2.58	0.49
2:E:112:ARG:C	2:E:113:LEU:O	2.54	0.49
2:F:95:LEU:O	2:F:99:PRO:HD2	2.13	0.49
1:A:1130:LYS:CB	1:A:1156:TYR:CE1	2.94	0.49
1:A:1167:SER:HB2	1:A:1196:ALA:HA	1.95	0.49
1:A:1345:ILE:H	1:A:1346:PRO:CD	2.18	0.49
1:A:1461:LYS:HG2	1:A:1489:ASN:ND2	2.28	0.49
1:A:1475:GLU:HB3	2:F:149:ASN:HD22	1.67	0.49
1:A:1562:LYS:C	1:A:1564:GLU:N	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1080:SER:C	1:B:1082:VAL:H	2.21	0.49
1:B:1167:SER:OG	1:B:1168:TYR:N	2.42	0.49
2:D:154:ARG:CB	2:D:154:ARG:HH11	2.26	0.49
2:F:98:GLU:O	2:F:102:ILE:N	2.45	0.49
2:F:167:ASP:O	2:F:168:ILE:O	2.31	0.49
1:A:1244:ALA:HB2	1:A:1253:TRP:HH2	1.68	0.49
1:A:1282:GLU:C	1:A:1283:LEU:CD1	2.85	0.49
1:A:1282:GLU:CG	1:A:1283:LEU:N	2.61	0.49
1:A:1384:ASP:OD1	2:F:115:GLU:OE1	2.03	0.49
1:A:1578:ARG:NE	1:A:1583:LEU:HD23	2.23	0.49
1:A:1597:PRO:HG3	1:A:1600:ILE:CD1	2.37	0.49
1:B:1162:LYS:HZ2	1:B:1163:LYS:HZ3	1.61	0.49
1:B:1251:ARG:O	1:B:1252:THR:OG1	2.20	0.49
1:B:1422:LEU:O	1:B:1422:LEU:HD22	2.12	0.49
1:B:1513:TYR:HA	1:B:1516:LYS:HE2	1.93	0.49
1:C:1211:TYR:CZ	1:C:1235:GLY:HA3	2.48	0.49
1:C:1329:PRO:O	1:C:1332:MET:N	2.44	0.49
1:C:1365:TYR:CB	1:C:1374:ALA:HB2	2.43	0.49
1:C:1513:TYR:HD1	1:C:1516:LYS:CE	2.22	0.49
1:C:1569:CYS:O	1:C:1572:THR:OG1	2.31	0.49
2:D:131:ALA:HA	2:D:134:ASP:OD2	2.13	0.49
2:E:105:TRP:CA	2:E:108:GLU:HG3	2.41	0.49
1:A:1167:SER:CA	1:A:1171:THR:OG1	2.61	0.49
1:B:1292:ASP:C	2:D:97:GLN:CD	2.80	0.49
1:B:1569:CYS:O	1:B:1572:THR:OG1	2.31	0.49
1:C:1092:LEU:C	1:C:1094:ARG:N	2.71	0.49
1:C:1277:VAL:C	1:C:1279:HIS:HD1	2.19	0.49
1:C:1303:LEU:HD12	1:C:1320:LEU:CD1	2.34	0.49
1:C:1329:PRO:O	1:C:1332:MET:HB3	2.13	0.49
1:C:1458:HIS:C	1:C:1460:ASN:H	2.20	0.49
1:C:1513:TYR:HA	1:C:1516:LYS:HG2	1.95	0.49
1:C:1629:THR:O	1:C:1629:THR:CG2	2.48	0.49
2:E:108:GLU:C	2:E:108:GLU:CD	2.81	0.49
2:E:154:ARG:CB	2:E:154:ARG:HH11	2.26	0.49
2:F:155:ILE:O	2:F:156:ALA:CB	2.61	0.49
1:B:1167:SER:HB2	1:B:1196:ALA:HA	1.95	0.48
1:B:1167:SER:CA	1:B:1171:THR:OG1	2.61	0.48
1:B:1455:VAL:O	1:B:1456:GLN:HB3	2.12	0.48
1:C:1193:PRO:HG2	1:C:1194:ASN:H	1.78	0.48
2:E:180:UNK:O	2:E:181:UNK:O	2.30	0.48
1:A:1077:VAL:HG12	1:A:1079:THR:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1151:GLU:O	1:A:1151:GLU:HG2	2.10	0.48
1:A:1168:TYR:CA	1:A:1172:GLU:OE2	2.61	0.48
1:A:1461:LYS:O	1:A:1465:GLU:HB2	2.13	0.48
1:B:1244:ALA:HB3	1:B:1275:HIS:CE1	2.46	0.48
1:B:1553:LEU:O	1:B:1556:TRP:HB3	2.13	0.48
1:C:1108:TRP:CD2	1:C:1129:ILE:HB	2.48	0.48
1:C:1416:PRO:O	1:C:1417:LEU:C	2.56	0.48
1:C:1553:LEU:O	1:C:1556:TRP:HB3	2.13	0.48
2:E:131:ALA:HA	2:E:134:ASP:OD2	2.13	0.48
2:E:155:ILE:O	2:E:156:ALA:CB	2.61	0.48
1:A:1111:LEU:O	1:A:1115:GLN:HB2	2.13	0.48
1:A:1302:MET:C	1:A:1304:GLU:N	2.69	0.48
1:A:1329:PRO:O	1:A:1332:MET:HB3	2.13	0.48
1:A:1408:ILE:HG22	1:A:1412:LEU:CG	2.41	0.48
1:A:1513:TYR:HD1	1:A:1516:LYS:CE	2.22	0.48
1:B:1193:PRO:O	1:B:1194:ASN:C	2.55	0.48
1:B:1333:ARG:HB2	1:B:1360:GLU:HG2	1.92	0.48
1:B:1405:TYR:CE2	1:B:1434:ARG:NH1	2.80	0.48
1:B:1471:PHE:CA	1:B:1474:GLU:HG2	2.38	0.48
1:B:1505:ILE:O	1:B:1506:GLU:C	2.56	0.48
1:C:1150:TRP:HA	1:C:1153:LEU:HB3	1.95	0.48
1:C:1230:THR:O	1:C:1231:LEU:CB	2.61	0.48
1:C:1260:CYS:N	1:C:1293:ARG:HH12	2.08	0.48
1:C:1329:PRO:O	1:C:1330:GLN:C	2.56	0.48
1:C:1461:LYS:O	1:C:1465:GLU:HB2	2.13	0.48
1:C:1592:MET:CE	1:C:1592:MET:CA	2.90	0.48
1:A:1150:TRP:HA	1:A:1153:LEU:HB3	1.95	0.48
1:A:1330:GLN:CG	1:A:1331:LYS:H	2.21	0.48
1:A:1546:ASP:O	1:A:1547:THR:C	2.56	0.48
1:B:1130:LYS:CB	1:B:1156:TYR:CE1	2.94	0.48
1:B:1273:GLY:C	1:B:1275:HIS:H	2.20	0.48
1:B:1292:ASP:HB2	2:D:97:GLN:NE2	2.28	0.48
1:B:1335:HIS:ND1	1:B:1336:LEU:N	2.62	0.48
1:B:1387:LYS:HB2	1:B:1390:GLN:CG	2.40	0.48
1:B:1517:GLY:C	1:B:1519:ASN:H	2.20	0.48
1:B:1561:GLU:HA	1:B:1561:GLU:OE2	2.13	0.48
1:A:1080:SER:C	1:A:1082:VAL:H	2.21	0.48
1:A:1166:GLU:CG	1:A:1167:SER:N	2.72	0.48
1:A:1273:GLY:C	1:A:1275:HIS:H	2.20	0.48
1:A:1509:ARG:HH12	2:F:162:GLN:CA	2.06	0.48
1:A:1598:TYR:CE1	1:B:1588:ARG:CB	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1103:ASN:HA	1:B:1128:TYR:HE2	1.78	0.48
1:B:1206:TYR:CE1	1:B:1230:THR:OG1	2.67	0.48
1:B:1277:VAL:C	1:B:1279:HIS:HD1	2.19	0.48
1:B:1302:MET:C	1:B:1304:GLU:N	2.69	0.48
1:C:1082:VAL:CG1	1:C:1083:GLN:N	2.68	0.48
1:C:1368:TYR:CE1	1:C:1370:GLU:OE2	2.67	0.48
1:C:1461:LYS:HG2	1:C:1489:ASN:ND2	2.28	0.48
2:D:102:ILE:O	2:D:106:ARG:CB	2.61	0.48
1:A:1083:GLN:NE2	1:A:1105:PRO:N	2.62	0.48
1:A:1344:ASN:CG	1:A:1345:ILE:N	2.72	0.48
1:B:1151:GLU:HG2	1:B:1151:GLU:O	2.10	0.48
1:B:1279:HIS:NE2	1:B:1283:LEU:N	2.62	0.48
1:B:1329:PRO:O	1:B:1330:GLN:C	2.56	0.48
1:B:1416:PRO:HD3	2:D:130:LYS:HD3	1.89	0.48
1:B:1567:GLY:O	1:B:1571:PHE:CD1	2.67	0.48
1:C:1083:GLN:NE2	1:C:1105:PRO:N	2.62	0.48
1:C:1175:PHE:HE1	1:C:1200:GLN:HB3	1.77	0.48
1:C:1273:GLY:C	1:C:1275:HIS:H	2.20	0.48
1:C:1279:HIS:CE1	1:C:1286:LEU:CD2	2.82	0.48
1:A:1375:ILE:HG23	1:A:1391:PHE:CZ	2.49	0.48
1:A:1505:ILE:O	1:A:1506:GLU:C	2.56	0.48
1:A:1518:ASN:O	1:A:1518:ASN:CG	2.54	0.48
1:A:1567:GLY:O	1:A:1571:PHE:CD1	2.67	0.48
1:B:1079:THR:CB	1:B:1105:PRO:HG3	2.40	0.48
1:B:1086:ILE:C	1:B:1088:HIS:N	2.71	0.48
1:B:1111:LEU:O	1:B:1115:GLN:HB2	2.13	0.48
1:B:1135:SER:O	1:B:1136:SER:HB2	2.12	0.48
1:B:1401:VAL:O	1:B:1404:TYR:HD1	1.97	0.48
1:B:1408:ILE:HG22	1:B:1412:LEU:CG	2.41	0.48
1:B:1416:PRO:CG	2:D:130:LYS:HG3	2.43	0.48
1:B:1461:LYS:HG2	1:B:1489:ASN:ND2	2.28	0.48
1:C:1167:SER:HB2	1:C:1196:ALA:HA	1.95	0.48
1:C:1416:PRO:O	1:C:1419:LEU:HB3	2.14	0.48
1:C:1425:VAL:CG2	1:C:1426:LEU:H	2.18	0.48
1:C:1561:GLU:HA	1:C:1561:GLU:OE2	2.14	0.48
1:A:1162:LYS:HZ2	1:A:1163:LYS:NZ	2.10	0.48
1:A:1211:TYR:CZ	1:A:1235:GLY:HA3	2.48	0.48
1:A:1306:ALA:O	1:A:1316:MET:HE1	2.14	0.48
1:A:1561:GLU:OE2	1:A:1561:GLU:HA	2.14	0.48
1:A:1578:ARG:CD	1:A:1582:VAL:HB	2.42	0.48
1:B:1104:GLU:N	1:B:1105:PRO:HD3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1113:LYS:HG2	1:B:1117:GLN:NE2	2.29	0.48
1:B:1193:PRO:HG2	1:B:1194:ASN:H	1.78	0.48
1:B:1329:PRO:O	1:B:1332:MET:N	2.44	0.48
1:B:1344:ASN:CG	1:B:1345:ILE:N	2.72	0.48
1:B:1446:PRO:O	1:B:1449:LYS:HB2	2.14	0.48
1:B:1469:ASN:ND2	1:B:1498:ARG:NH2	2.62	0.48
1:B:1495:LEU:O	1:B:1499:LEU:HG	2.14	0.48
1:B:1562:LYS:C	1:B:1564:GLU:N	2.70	0.48
1:B:1578:ARG:CD	1:B:1582:VAL:HB	2.42	0.48
1:C:1448:VAL:O	1:C:1451:TYR:HB3	2.14	0.48
1:C:1517:GLY:C	1:C:1519:ASN:H	2.20	0.48
2:F:98:GLU:O	2:F:102:ILE:HG23	2.14	0.48
2:F:112:ARG:HD3	2:F:113:LEU:N	2.28	0.48
1:A:1230:THR:O	1:A:1231:LEU:CB	2.61	0.48
1:A:1395:ILE:HG23	1:A:1396:THR:N	2.29	0.48
1:A:1405:TYR:CE2	1:A:1434:ARG:NH1	2.80	0.48
1:B:1111:LEU:HD11	1:B:1125:ILE:HG12	1.93	0.48
1:B:1513:TYR:HA	1:B:1516:LYS:HG2	1.94	0.48
1:C:1130:LYS:HD2	1:C:1156:TYR:CZ	2.40	0.48
1:C:1279:HIS:NE2	1:C:1283:LEU:N	2.62	0.48
1:C:1446:PRO:O	1:C:1449:LYS:HB2	2.14	0.48
2:F:127:TRP:CA	2:F:130:LYS:HE3	2.42	0.48
1:A:1446:PRO:O	1:A:1449:LYS:HB2	2.14	0.48
1:A:1469:ASN:HD22	1:A:1469:ASN:C	2.20	0.48
1:B:1083:GLN:NE2	1:B:1105:PRO:N	2.62	0.48
1:B:1324:TYR:CD2	1:B:1332:MET:HA	2.43	0.48
1:B:1384:ASP:OD1	2:D:115:GLU:OE1	2.31	0.48
1:B:1395:ILE:HG13	1:B:1404:TYR:HE2	1.52	0.48
1:B:1491:ASP:O	1:B:1493:ILE:N	2.47	0.48
1:C:1495:LEU:O	1:C:1499:LEU:HG	2.14	0.48
1:C:1505:ILE:O	1:C:1506:GLU:C	2.56	0.48
1:A:1177:LEU:C	1:A:1185:GLU:OE2	2.57	0.47
1:A:1279:HIS:NE2	1:A:1283:LEU:N	2.62	0.47
1:A:1329:PRO:O	1:A:1330:GLN:C	2.56	0.47
1:A:1368:TYR:CE1	1:A:1370:GLU:OE2	2.67	0.47
1:A:1416:PRO:HG2	2:F:133:LYS:HG3	1.95	0.47
1:A:1476:ASP:CG	1:A:1479:ALA:HB3	2.39	0.47
1:A:1553:LEU:O	1:A:1556:TRP:HB3	2.13	0.47
1:B:1108:TRP:CD2	1:B:1129:ILE:HB	2.49	0.47
1:B:1206:TYR:CE1	1:B:1226:ARG:HA	2.49	0.47
1:B:1597:PRO:HG3	1:B:1600:ILE:CD1	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1077:VAL:HG12	1:C:1079:THR:H	1.78	0.47
1:C:1085:LEU:HD23	1:C:1085:LEU:N	2.12	0.47
1:C:1103:ASN:HA	1:C:1128:TYR:HE2	1.78	0.47
1:C:1270:GLN:CD	1:C:1298:GLU:CB	2.84	0.47
1:C:1344:ASN:CG	1:C:1345:ILE:N	2.72	0.47
1:C:1395:ILE:HG23	1:C:1396:THR:N	2.29	0.47
1:C:1530:LYS:HG2	1:C:1531:ASP:N	2.29	0.47
1:C:1567:GLY:O	1:C:1571:PHE:CD1	2.67	0.47
2:D:144:GLU:O	2:D:148:LYS:N	2.45	0.47
2:E:124:GLU:OE1	2:E:128:ARG:CZ	2.62	0.47
2:F:183:UNK:N	2:F:188:UNK:CB	2.77	0.47
1:A:1085:LEU:CD2	1:A:1085:LEU:N	2.76	0.47
1:A:1111:LEU:HD11	1:A:1125:ILE:HG12	1.92	0.47
1:A:1113:LYS:HG2	1:A:1117:GLN:NE2	2.29	0.47
1:A:1335:HIS:ND1	1:A:1336:LEU:N	2.62	0.47
1:A:1387:LYS:HB2	1:A:1390:GLN:CG	2.40	0.47
1:A:1617:GLU:CG	1:A:1621:LYS:HZ2	2.27	0.47
1:B:1408:ILE:O	1:B:1412:LEU:HB3	2.15	0.47
1:B:1561:GLU:HG3	1:B:1562:LYS:N	2.30	0.47
1:B:1592:MET:CE	1:B:1592:MET:CA	2.90	0.47
1:C:1113:LYS:HG2	1:C:1117:GLN:NE2	2.29	0.47
1:C:1198:ILE:HA	1:C:1201:VAL:HG21	1.96	0.47
1:C:1335:HIS:ND1	1:C:1336:LEU:N	2.62	0.47
1:C:1584:GLU:C	1:C:1586:ALA:H	2.22	0.47
2:D:124:GLU:OE1	2:D:128:ARG:CZ	2.62	0.47
1:A:1092:LEU:C	1:A:1094:ARG:N	2.71	0.47
1:A:1108:TRP:CD2	1:A:1129:ILE:HB	2.48	0.47
1:A:1111:LEU:CD2	1:A:1115:GLN:CG	2.93	0.47
1:A:1197:HIS:O	1:A:1201:VAL:HG23	2.14	0.47
1:A:1326:LYS:HG3	1:A:1327:PHE:CE1	2.49	0.47
1:B:1150:TRP:HA	1:B:1153:LEU:HB3	1.95	0.47
1:B:1306:ALA:O	1:B:1316:MET:HE1	2.14	0.47
1:B:1326:LYS:HG3	1:B:1327:PHE:CE1	2.49	0.47
1:B:1329:PRO:O	1:B:1332:MET:HB3	2.13	0.47
1:B:1416:PRO:O	1:B:1419:LEU:HB3	2.14	0.47
1:B:1629:THR:O	1:B:1629:THR:CG2	2.48	0.47
1:C:1148:GLY:HA3	1:C:1150:TRP:CZ3	2.42	0.47
1:C:1326:LYS:HG3	1:C:1327:PHE:CE1	2.49	0.47
1:C:1362:VAL:CG2	1:C:1377:THR:CB	2.82	0.47
1:C:1535:LYS:HZ1	1:C:1563:ARG:HH12	1.61	0.47
2:D:191:UNK:O	2:D:193:UNK:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1296:PHE:CZ	2:F:101:SER:HA	2.49	0.47
1:A:1365:TYR:CB	1:A:1374:ALA:HB2	2.44	0.47
1:A:1408:ILE:O	1:A:1412:LEU:HB3	2.15	0.47
1:A:1492:ASN:C	1:A:1493:ILE:CG1	2.83	0.47
1:A:1569:CYS:O	1:A:1572:THR:OG1	2.31	0.47
1:B:1307:LEU:HD11	1:B:1316:MET:HB3	1.96	0.47
1:B:1375:ILE:HG23	1:B:1391:PHE:CZ	2.49	0.47
1:C:1078:ASN:ND2	1:C:1101:ARG:HB3	2.08	0.47
1:C:1108:TRP:CZ2	1:C:1129:ILE:HA	2.49	0.47
1:C:1306:ALA:O	1:C:1316:MET:HE1	2.14	0.47
1:C:1421:ASP:O	1:C:1424:MET:HB2	2.15	0.47
1:C:1572:THR:HG22	1:C:1578:ARG:HB3	1.96	0.47
2:D:153:ASN:ND2	2:D:158:LYS:CB	2.77	0.47
2:F:133:LYS:CE	2:F:133:LYS:CA	2.93	0.47
1:A:1301:THR:O	1:A:1301:THR:HG22	2.14	0.47
1:A:1505:ILE:CD1	2:F:153:ASN:CG	2.74	0.47
1:A:1572:THR:HG22	1:A:1578:ARG:HB3	1.96	0.47
1:B:1080:SER:C	1:B:1082:VAL:N	2.70	0.47
1:B:1167:SER:CA	1:B:1171:THR:H	2.24	0.47
1:B:1168:TYR:CA	1:B:1172:GLU:OE2	2.61	0.47
1:B:1177:LEU:C	1:B:1185:GLU:OE2	2.57	0.47
1:B:1448:VAL:O	1:B:1451:TYR:HB3	2.14	0.47
1:B:1476:ASP:CG	1:B:1479:ALA:HB3	2.39	0.47
1:C:1137:TYR:O	1:C:1141:VAL:CG2	2.61	0.47
1:C:1206:TYR:CE1	1:C:1226:ARG:HA	2.49	0.47
1:C:1324:TYR:CD2	1:C:1332:MET:HA	2.43	0.47
2:D:173:UNK:C	2:D:176:UNK:CB	2.92	0.47
1:A:1080:SER:O	1:A:1084:VAL:HG23	2.15	0.47
1:A:1292:ASP:OD1	2:F:98:GLU:HG3	2.14	0.47
1:A:1588:ARG:HB2	2:E:195:UNK:CB	2.44	0.47
1:B:1197:HIS:O	1:B:1201:VAL:HG23	2.14	0.47
1:B:1244:ALA:HB2	1:B:1253:TRP:HH2	1.68	0.47
1:C:1146:THR:C	1:C:1148:GLY:H	2.22	0.47
1:C:1168:TYR:CA	1:C:1172:GLU:OE2	2.61	0.47
1:C:1197:HIS:O	1:C:1201:VAL:HG23	2.14	0.47
1:C:1401:VAL:O	1:C:1404:TYR:HD1	1.97	0.47
1:C:1561:GLU:HG3	1:C:1562:LYS:N	2.29	0.47
2:F:124:GLU:OE1	2:F:128:ARG:CZ	2.62	0.47
1:A:1146:THR:C	1:A:1148:GLY:H	2.22	0.47
1:A:1206:TYR:CE1	1:A:1226:ARG:HA	2.49	0.47
1:A:1425:VAL:CG2	1:A:1426:LEU:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1431:ASP:C	1:A:1433:THR:N	2.72	0.47
1:A:1455:VAL:O	1:A:1456:GLN:CB	2.63	0.47
1:A:1561:GLU:HG3	1:A:1562:LYS:N	2.29	0.47
1:B:1279:HIS:HD2	1:B:1282:GLU:CA	2.27	0.47
1:B:1296:PHE:HZ	2:D:100:GLU:HG3	1.79	0.47
1:B:1357:LEU:HD23	2:D:111:LYS:CE	2.44	0.47
1:B:1416:PRO:O	1:B:1417:LEU:C	2.56	0.47
1:B:1461:LYS:O	1:B:1465:GLU:HB2	2.13	0.47
1:B:1504:LEU:HD21	2:D:149:ASN:O	2.09	0.47
1:B:1530:LYS:HG2	1:B:1531:ASP:N	2.30	0.47
1:C:1177:LEU:C	1:C:1185:GLU:OE2	2.57	0.47
1:C:1408:ILE:O	1:C:1412:LEU:HB3	2.15	0.47
1:C:1427:SER:HB2	1:C:1428:PRO:HD2	1.85	0.47
1:C:1476:ASP:CG	1:C:1479:ALA:HB3	2.39	0.47
1:C:1518:ASN:CG	1:C:1518:ASN:O	2.54	0.47
1:C:1605:GLU:O	1:C:1609:LYS:N	2.48	0.47
2:D:102:ILE:HG13	2:D:103:ARG:N	2.30	0.47
2:D:127:TRP:CA	2:D:130:LYS:HE3	2.41	0.47
2:D:133:LYS:CE	2:D:133:LYS:CA	2.93	0.47
2:F:144:GLU:O	2:F:148:LYS:N	2.45	0.47
2:F:193:UNK:C	2:F:195:UNK:N	2.76	0.47
1:A:1232:VAL:O	1:A:1233:HIS:CB	2.62	0.47
1:A:1315:GLY:O	1:A:1319:GLU:HG2	2.15	0.47
1:A:1469:ASN:ND2	1:A:1498:ARG:NH2	2.62	0.47
1:B:1368:TYR:CE1	1:B:1370:GLU:OE2	2.67	0.47
1:B:1395:ILE:HG23	1:B:1396:THR:N	2.29	0.47
1:B:1422:LEU:C	1:B:1422:LEU:HD13	2.40	0.47
1:B:1517:GLY:C	1:B:1519:ASN:N	2.72	0.47
1:B:1605:GLU:O	1:B:1609:LYS:N	2.48	0.47
1:C:1104:GLU:N	1:C:1105:PRO:HD3	2.29	0.47
1:C:1375:ILE:HG23	1:C:1391:PHE:CZ	2.49	0.47
2:D:122:VAL:HG23	2:D:123:MET:SD	2.55	0.47
1:A:1079:THR:CB	1:A:1105:PRO:HG3	2.39	0.47
1:A:1104:GLU:N	1:A:1105:PRO:HD3	2.29	0.47
1:A:1258:PHE:C	1:A:1260:CYS:H	2.23	0.47
1:A:1333:ARG:HB2	1:A:1360:GLU:HG2	1.92	0.47
1:A:1395:ILE:HD11	1:A:1403:LEU:HD12	1.96	0.47
1:A:1420:ASN:C	1:A:1422:LEU:N	2.72	0.47
1:A:1600:ILE:HB	1:A:1601:GLN:OE1	2.15	0.47
1:B:1077:VAL:HG12	1:B:1079:THR:H	1.78	0.47
1:B:1108:TRP:CZ2	1:B:1129:ILE:HA	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1111:LEU:CD2	1:B:1115:GLN:CG	2.93	0.47
1:B:1365:TYR:CB	1:B:1374:ALA:HB2	2.43	0.47
1:B:1490:PHE:CE2	1:B:1492:ASN:OD1	2.63	0.47
1:B:1572:THR:HG22	1:B:1578:ARG:HB3	1.95	0.47
1:C:1079:THR:CB	1:C:1105:PRO:HG3	2.40	0.47
1:C:1395:ILE:HD11	1:C:1403:LEU:HD12	1.96	0.47
1:C:1469:ASN:HD22	1:C:1469:ASN:C	2.20	0.47
2:E:122:VAL:HG23	2:E:123:MET:SD	2.54	0.47
2:E:133:LYS:CE	2:E:133:LYS:CA	2.92	0.47
2:F:102:ILE:C	2:F:104:LYS:H	2.23	0.47
1:A:1104:GLU:O	1:A:1108:TRP:HZ2	1.86	0.47
1:A:1421:ASP:O	1:A:1424:MET:HB2	2.15	0.47
1:A:1493:ILE:O	1:A:1494:SER:C	2.58	0.47
1:A:1517:GLY:C	1:A:1519:ASN:N	2.72	0.47
1:A:1580:ASP:OD2	1:C:1605:GLU:OE2	2.33	0.47
1:B:1198:ILE:HA	1:B:1201:VAL:HG21	1.96	0.47
1:B:1258:PHE:C	1:B:1260:CYS:H	2.23	0.47
1:B:1315:GLY:O	1:B:1319:GLU:HG2	2.15	0.47
1:B:1421:ASP:O	1:B:1424:MET:HB2	2.15	0.47
1:B:1584:GLU:C	1:B:1586:ALA:H	2.22	0.47
1:C:1080:SER:C	1:C:1082:VAL:H	2.21	0.47
1:C:1080:SER:O	1:C:1084:VAL:HG23	2.15	0.47
1:C:1108:TRP:CZ3	1:C:1129:ILE:CG1	2.97	0.47
1:C:1232:VAL:CG2	1:C:1233:HIS:H	2.08	0.47
1:C:1301:THR:O	1:C:1301:THR:HG22	2.15	0.47
2:E:105:TRP:O	2:E:108:GLU:CD	2.58	0.47
1:A:1198:ILE:HA	1:A:1201:VAL:HG21	1.96	0.46
1:A:1387:LYS:HD2	1:A:1390:GLN:CD	2.41	0.46
1:A:1408:ILE:O	1:A:1412:LEU:CA	2.63	0.46
1:A:1422:LEU:HD13	1:A:1422:LEU:C	2.40	0.46
1:B:1080:SER:O	1:B:1084:VAL:HG23	2.15	0.46
1:B:1597:PRO:HB3	1:B:1601:GLN:NE2	2.26	0.46
1:C:1206:TYR:CD2	1:C:1226:ARG:HG3	2.50	0.46
1:C:1387:LYS:HD2	1:C:1390:GLN:CD	2.41	0.46
2:E:127:TRP:CA	2:E:130:LYS:HE3	2.41	0.46
1:A:1086:ILE:C	1:A:1088:HIS:N	2.71	0.46
1:A:1340:TRP:CD1	1:A:1340:TRP:N	2.83	0.46
1:A:1416:PRO:O	1:A:1419:LEU:HB3	2.14	0.46
1:A:1448:VAL:O	1:A:1451:TYR:HB3	2.14	0.46
1:A:1495:LEU:O	1:A:1499:LEU:HG	2.14	0.46
1:B:1232:VAL:O	1:B:1233:HIS:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1293:ARG:CA	2:D:96:THR:HG23	2.22	0.46
1:B:1420:ASN:HA	1:B:1423:LEU:CG	2.43	0.46
1:C:1232:VAL:O	1:C:1233:HIS:CB	2.63	0.46
1:C:1253:TRP:HZ3	1:C:1276:ILE:CG2	1.98	0.46
1:C:1297:GLU:OE1	1:C:1297:GLU:HA	2.15	0.46
1:C:1340:TRP:CD1	1:C:1340:TRP:N	2.83	0.46
1:C:1422:LEU:HD13	1:C:1422:LEU:C	2.40	0.46
1:C:1431:ASP:C	1:C:1433:THR:N	2.72	0.46
2:D:95:LEU:HA	2:D:99:PRO:HD2	1.97	0.46
2:E:106:ARG:C	2:E:108:GLU:H	2.23	0.46
2:F:122:VAL:HG23	2:F:123:MET:SD	2.55	0.46
1:A:1206:TYR:CD2	1:A:1226:ARG:HG3	2.50	0.46
1:A:1253:TRP:HZ3	1:A:1276:ILE:CG2	1.98	0.46
1:A:1307:LEU:HD11	1:A:1316:MET:HB3	1.96	0.46
1:A:1414:PHE:HB3	2:F:130:LYS:NZ	2.24	0.46
1:A:1517:GLY:C	1:A:1519:ASN:H	2.20	0.46
1:A:1530:LYS:HG2	1:A:1531:ASP:N	2.30	0.46
1:A:1584:GLU:C	1:A:1586:ALA:H	2.22	0.46
1:A:1592:MET:CE	1:A:1592:MET:CA	2.90	0.46
1:A:1602:VAL:CG1	2:F:202:UNK:O	2.61	0.46
1:A:1605:GLU:O	1:A:1609:LYS:N	2.48	0.46
1:B:1146:THR:C	1:B:1148:GLY:H	2.22	0.46
1:B:1448:VAL:HA	1:B:1451:TYR:HB3	1.97	0.46
1:B:1455:VAL:O	1:B:1456:GLN:CB	2.63	0.46
1:B:1600:ILE:HB	1:B:1601:GLN:OE1	2.15	0.46
1:C:1214:ALA:O	1:C:1218:TYR:CG	2.68	0.46
1:C:1491:ASP:O	1:C:1493:ILE:N	2.47	0.46
1:C:1598:TYR:OH	2:E:196:UNK:CA	2.61	0.46
1:C:1600:ILE:HB	1:C:1601:GLN:OE1	2.15	0.46
1:C:1601:GLN:HA	1:C:1604:LYS:CG	2.45	0.46
1:A:1345:ILE:N	1:A:1346:PRO:HD2	2.20	0.46
1:A:1424:MET:O	1:A:1427:SER:OG	2.31	0.46
1:A:1460:ASN:HB3	1:A:1463:VAL:HG23	1.98	0.46
1:B:1297:GLU:OE1	1:B:1297:GLU:HA	2.16	0.46
1:B:1450:PRO:O	1:B:1453:ARG:HB2	2.16	0.46
1:B:1460:ASN:HB3	1:B:1463:VAL:HG23	1.98	0.46
1:B:1493:ILE:O	1:B:1494:SER:C	2.58	0.46
1:C:1158:GLN:O	1:C:1162:LYS:NZ	2.30	0.46
1:C:1258:PHE:C	1:C:1260:CYS:H	2.23	0.46
1:C:1315:GLY:O	1:C:1319:GLU:HG2	2.15	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:1564:GLU:O	1:C:1568:ALA:N	2.46	0.46
2:E:148:LYS:C	2:E:151:ILE:HG23	2.41	0.46
2:F:148:LYS:O	2:F:151:ILE:HG23	2.16	0.46
1:A:1214:ALA:O	1:A:1218:TYR:CG	2.68	0.46
1:A:1539:GLN:OE1	2:F:177:UNK:CB	2.59	0.46
1:A:1565:CYS:SG	1:A:1596:MET:SD	3.13	0.46
1:A:1579:PRO:O	1:A:1583:LEU:HG	2.15	0.46
1:A:1580:ASP:OD1	1:C:1605:GLU:CG	2.63	0.46
1:C:1079:THR:HA	1:C:1102:CYS:CB	2.39	0.46
1:C:1206:TYR:CE1	1:C:1230:THR:OG1	2.67	0.46
1:C:1250:THR:CB	1:C:1285:GLU:OE1	2.58	0.46
1:C:1493:ILE:O	1:C:1494:SER:C	2.58	0.46
1:C:1565:CYS:SG	1:C:1596:MET:SD	3.12	0.46
2:D:108:GLU:C	2:D:108:GLU:CD	2.83	0.46
2:D:204:UNK:O	2:D:205:UNK:O	2.34	0.46
2:E:94:ARG:NH2	2:E:98:GLU:HG2	2.30	0.46
2:F:102:ILE:C	2:F:104:LYS:N	2.73	0.46
2:F:102:ILE:O	2:F:104:LYS:N	2.49	0.46
2:F:187:UNK:O	2:F:188:UNK:C	2.62	0.46
1:A:1083:GLN:NE2	1:A:1105:PRO:CD	2.79	0.46
1:A:1108:TRP:CZ3	1:A:1129:ILE:CG1	2.97	0.46
1:A:1194:ASN:HB2	1:A:1195:ASN:H	1.48	0.46
1:A:1591:ILE:HG12	1:A:1592:MET:H	1.81	0.46
1:B:1149:ASN:O	1:B:1153:LEU:HB3	2.12	0.46
1:B:1206:TYR:CD2	1:B:1226:ARG:HG3	2.50	0.46
1:C:1244:ALA:HB3	1:C:1275:HIS:CE1	2.46	0.46
1:C:1332:MET:SD	1:C:1360:GLU:CB	3.04	0.46
1:C:1499:LEU:HB2	1:C:1511:ALA:CB	2.42	0.46
1:C:1517:GLY:C	1:C:1519:ASN:N	2.72	0.46
1:C:1598:TYR:OH	2:E:196:UNK:HA	2.15	0.46
2:E:104:LYS:C	2:E:108:GLU:CG	2.77	0.46
2:E:104:LYS:C	2:E:108:GLU:HG2	2.36	0.46
2:E:137:GLU:HG3	2:E:141:ARG:NH2	2.31	0.46
2:F:191:UNK:O	2:F:194:UNK:N	2.49	0.46
1:A:1083:GLN:NE2	1:A:1105:PRO:HD2	2.31	0.46
1:A:1345:ILE:HB	1:A:1368:TYR:CE2	2.51	0.46
1:A:1381:HIS:HA	2:F:115:GLU:HG3	1.98	0.46
1:A:1411:TYR:HA	1:A:1415:LYS:HB2	1.87	0.46
1:A:1561:GLU:CG	1:A:1562:LYS:N	2.79	0.46
1:A:1565:CYS:O	1:A:1569:CYS:SG	2.74	0.46
1:B:1137:TYR:O	1:B:1141:VAL:CG2	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1395:ILE:HD11	1:B:1403:LEU:HD12	1.96	0.46
1:B:1579:PRO:O	1:B:1583:LEU:HG	2.16	0.46
1:B:1591:ILE:HG12	1:B:1592:MET:H	1.81	0.46
1:C:1358:TRP:CH2	1:C:1381:HIS:ND1	2.57	0.46
1:C:1448:VAL:HA	1:C:1451:TYR:HB3	1.97	0.46
1:C:1450:PRO:O	1:C:1453:ARG:HB2	2.16	0.46
1:C:1455:VAL:CG1	1:C:1456:GLN:N	2.66	0.46
1:C:1572:THR:HG21	1:C:1599:PHE:HE2	1.81	0.46
2:D:185:UNK:CA	2:D:189:UNK:C	2.86	0.46
2:E:148:LYS:O	2:E:151:ILE:HG23	2.16	0.46
2:E:192:UNK:O	2:E:193:UNK:O	2.33	0.46
1:A:1250:THR:C	1:A:1251:ARG:CG	2.87	0.46
1:A:1401:VAL:O	1:A:1404:TYR:HD1	1.97	0.46
1:B:1083:GLN:NE2	1:B:1105:PRO:HD2	2.31	0.46
1:B:1170:GLU:CG	1:B:1196:ALA:HB2	2.46	0.46
1:B:1333:ARG:HA	1:B:1360:GLU:CG	2.46	0.46
1:C:1167:SER:CA	1:C:1171:THR:H	2.24	0.46
1:C:1408:ILE:O	1:C:1412:LEU:CA	2.63	0.46
1:C:1414:PHE:CD1	2:E:123:MET:CG	2.88	0.46
1:C:1617:GLU:CG	1:C:1621:LYS:NZ	2.79	0.46
1:A:1085:LEU:CD1	1:A:1098:PHE:CE1	2.84	0.46
1:A:1332:MET:SD	1:A:1360:GLU:CB	3.04	0.46
1:A:1449:LYS:HZ3	2:F:141:ARG:HE	1.63	0.46
1:A:1598:TYR:HE1	1:B:1588:ARG:HB3	1.81	0.46
1:B:1083:GLN:NE2	1:B:1105:PRO:CD	2.79	0.46
1:B:1085:LEU:HD12	1:B:1095:ALA:CA	2.46	0.46
1:B:1274:LEU:O	1:B:1277:VAL:CG2	2.64	0.46
1:B:1332:MET:SD	1:B:1360:GLU:CB	3.04	0.46
1:C:1161:ARG:HE	1:C:1165:ARG:HD2	1.77	0.46
1:A:1137:TYR:O	1:A:1141:VAL:CG2	2.61	0.46
1:A:1170:GLU:CG	1:A:1196:ALA:HB2	2.46	0.46
1:A:1572:THR:HG21	1:A:1599:PHE:HE2	1.81	0.46
1:B:1204:ARG:O	1:B:1208:GLU:N	2.48	0.46
1:B:1465:GLU:C	1:B:1465:GLU:OE1	2.59	0.46
1:B:1565:CYS:SG	1:B:1596:MET:SD	3.13	0.46
1:C:1077:VAL:C	1:C:1079:THR:N	2.74	0.46
1:C:1307:LEU:HD11	1:C:1316:MET:HB3	1.96	0.46
1:C:1455:VAL:O	1:C:1456:GLN:CB	2.63	0.46
2:D:148:LYS:C	2:D:151:ILE:HG23	2.41	0.46
2:E:101:SER:O	2:E:105:TRP:HE3	1.99	0.46
2:F:184:UNK:C	2:F:186:UNK:N	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1333:ARG:CB	1:A:1360:GLU:HG2	2.46	0.45
1:A:1520:ARG:H	1:A:1520:ARG:CD	2.29	0.45
1:A:1564:GLU:O	1:A:1568:ALA:N	2.47	0.45
1:B:1151:GLU:HB3	1:B:1152:GLU:OE2	2.16	0.45
1:B:1340:TRP:CD1	1:B:1340:TRP:N	2.83	0.45
1:B:1561:GLU:CG	1:B:1562:LYS:N	2.79	0.45
1:C:1154:VAL:CG2	1:C:1180:THR:CG2	2.63	0.45
1:C:1565:CYS:O	1:C:1569:CYS:SG	2.74	0.45
2:D:179:UNK:C	2:D:181:UNK:N	2.78	0.45
2:E:107:GLU:HA	2:E:107:GLU:OE1	2.16	0.45
2:E:144:GLU:O	2:E:148:LYS:N	2.45	0.45
2:F:108:GLU:CD	2:F:108:GLU:C	2.84	0.45
1:A:1420:ASN:HA	1:A:1423:LEU:CG	2.43	0.45
1:B:1095:ALA:HA	1:B:1098:PHE:CZ	2.51	0.45
1:B:1345:ILE:HB	1:B:1368:TYR:CE2	2.51	0.45
1:B:1520:ARG:CD	1:B:1520:ARG:H	2.29	0.45
1:B:1561:GLU:CD	1:B:1562:LYS:H	2.24	0.45
1:B:1565:CYS:O	1:B:1569:CYS:SG	2.74	0.45
1:B:1601:GLN:HA	1:B:1604:LYS:CG	2.45	0.45
1:C:1086:ILE:C	1:C:1088:HIS:N	2.71	0.45
1:C:1151:GLU:HB3	1:C:1152:GLU:OE2	2.16	0.45
1:C:1274:LEU:O	1:C:1277:VAL:CG2	2.64	0.45
1:C:1504:LEU:CD2	2:E:149:ASN:ND2	2.69	0.45
1:C:1520:ARG:H	1:C:1520:ARG:CD	2.29	0.45
1:C:1579:PRO:O	1:C:1583:LEU:HG	2.15	0.45
2:F:183:UNK:HA	2:F:188:UNK:CB	2.45	0.45
1:A:1162:LYS:NZ	1:A:1163:LYS:HZ1	2.14	0.45
1:A:1400:ASN:OD1	1:A:1402:GLU:HB3	2.17	0.45
1:A:1413:GLU:OE1	1:A:1413:GLU:HA	2.16	0.45
1:A:1563:ARG:NH2	2:F:181:UNK:HA	2.27	0.45
1:A:1617:GLU:CG	1:A:1621:LYS:NZ	2.79	0.45
1:B:1130:LYS:HD2	1:B:1156:TYR:CZ	2.40	0.45
1:B:1214:ALA:O	1:B:1218:TYR:CG	2.68	0.45
1:B:1301:THR:O	1:B:1301:THR:HG22	2.15	0.45
1:C:1079:THR:HG23	1:C:1105:PRO:HG3	1.74	0.45
1:C:1420:ASN:HA	1:C:1423:LEU:CG	2.43	0.45
1:C:1562:LYS:C	1:C:1564:GLU:N	2.70	0.45
1:A:1079:THR:HA	1:A:1102:CYS:CB	2.39	0.45
1:A:1230:THR:HG22	1:A:1230:THR:O	2.17	0.45
1:B:1387:LYS:HD2	1:B:1390:GLN:CD	2.41	0.45
1:B:1561:GLU:HG3	1:B:1563:ARG:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1569:CYS:C	1:B:1571:PHE:N	2.74	0.45
1:C:1077:VAL:HG12	1:C:1079:THR:HB	1.98	0.45
1:C:1083:GLN:NE2	1:C:1105:PRO:CD	2.79	0.45
1:C:1083:GLN:NE2	1:C:1105:PRO:HD2	2.31	0.45
1:C:1204:ARG:O	1:C:1208:GLU:N	2.48	0.45
1:C:1465:GLU:C	1:C:1465:GLU:OE1	2.59	0.45
1:C:1597:PRO:HG3	1:C:1600:ILE:CD1	2.37	0.45
2:D:126:GLU:OE2	2:D:129:GLU:CD	2.59	0.45
2:F:137:GLU:HG3	2:F:141:ARG:NH2	2.31	0.45
1:A:1077:VAL:C	1:A:1079:THR:N	2.74	0.45
1:A:1230:THR:O	1:A:1231:LEU:CG	2.64	0.45
1:A:1234:LEU:C	1:A:1236:GLU:N	2.70	0.45
1:A:1244:ALA:HB3	1:A:1275:HIS:CE1	2.46	0.45
1:A:1274:LEU:O	1:A:1277:VAL:CG2	2.64	0.45
1:A:1471:PHE:HA	1:A:1474:GLU:CG	2.43	0.45
1:A:1601:GLN:OE1	1:A:1601:GLN:N	2.50	0.45
1:B:1230:THR:HG22	1:B:1230:THR:O	2.17	0.45
1:B:1292:ASP:O	2:D:96:THR:CG2	2.61	0.45
1:B:1474:GLU:HG3	1:B:1476:ASP:H	1.82	0.45
1:B:1572:THR:HG21	1:B:1599:PHE:HE2	1.81	0.45
1:B:1601:GLN:OE1	1:B:1601:GLN:N	2.50	0.45
1:C:1167:SER:O	1:C:1171:THR:C	2.60	0.45
1:C:1561:GLU:HG3	1:C:1563:ARG:H	1.82	0.45
1:C:1561:GLU:CD	1:C:1562:LYS:H	2.24	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
1:A:1448:VAL:HA	1:A:1451:TYR:HB3	1.97	0.45
1:A:1450:PRO:O	1:A:1453:ARG:HB2	2.16	0.45
1:A:1467:LEU:HG	1:A:1471:PHE:HE2	1.82	0.45
1:A:1469:ASN:ND2	1:A:1469:ASN:O	2.48	0.45
1:A:1480:LEU:HA	1:A:1483:SER:HB3	1.99	0.45
1:A:1491:ASP:O	1:A:1493:ILE:N	2.47	0.45
1:B:1237:TYR:CG	1:B:1237:TYR:O	2.70	0.45
1:B:1257:CYS:CB	1:B:1289:TYR:OH	2.64	0.45
1:B:1416:PRO:CG	2:D:130:LYS:CG	2.95	0.45
1:B:1431:ASP:C	1:B:1433:THR:N	2.72	0.45
1:B:1503:GLU:HG3	1:B:1504:LEU:H	1.82	0.45
1:B:1597:PRO:CB	1:B:1601:GLN:HE22	2.28	0.45
1:C:1230:THR:O	1:C:1231:LEU:CG	2.64	0.45
1:C:1235:GLY:O	1:C:1238:GLN:HB2	2.17	0.45
1:C:1345:ILE:HB	1:C:1368:TYR:CE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1413:GLU:OE1	1:C:1413:GLU:HA	2.17	0.45
1:C:1460:ASN:HB3	1:C:1463:VAL:HG23	1.98	0.45
1:C:1518:ASN:O	1:C:1518:ASN:ND2	2.50	0.45
2:D:123:MET:O	2:D:127:TRP:CD2	2.70	0.45
1:A:1095:ALA:HA	1:A:1098:PHE:CZ	2.52	0.45
1:A:1456:GLN:O	1:A:1456:GLN:HG3	2.05	0.45
1:B:1091:ASN:C	1:B:1091:ASN:HD22	2.24	0.45
1:B:1230:THR:O	1:B:1231:LEU:CG	2.64	0.45
1:B:1301:THR:CA	1:B:1304:GLU:HG3	2.31	0.45
1:B:1408:ILE:O	1:B:1412:LEU:CA	2.63	0.45
1:C:1085:LEU:HD12	1:C:1095:ALA:CA	2.46	0.45
1:C:1095:ALA:HA	1:C:1098:PHE:CZ	2.51	0.45
1:C:1452:LEU:HD13	1:C:1467:LEU:HD13	1.99	0.45
1:C:1601:GLN:OE1	1:C:1601:GLN:N	2.50	0.45
1:C:1619:LEU:HD22	1:C:1619:LEU:N	2.32	0.45
2:D:94:ARG:NE	2:D:98:GLU:OE1	2.47	0.45
2:D:148:LYS:O	2:D:151:ILE:HG23	2.16	0.45
2:F:148:LYS:C	2:F:151:ILE:HG23	2.41	0.45
1:A:1237:TYR:O	1:A:1237:TYR:CG	2.70	0.45
1:A:1518:ASN:O	1:A:1518:ASN:ND2	2.50	0.45
1:A:1601:GLN:HA	1:A:1604:LYS:CG	2.45	0.45
1:A:1619:LEU:O	1:A:1620:ARG:C	2.59	0.45
1:B:1103:ASN:HA	1:B:1128:TYR:CE2	2.52	0.45
1:B:1413:GLU:OE1	1:B:1413:GLU:HA	2.17	0.45
1:B:1469:ASN:ND2	1:B:1498:ARG:HH12	2.15	0.45
1:C:1263:GLY:O	1:C:1264:LYS:CB	2.60	0.45
1:C:1561:GLU:CG	1:C:1562:LYS:N	2.79	0.45
2:E:126:GLU:OE2	2:E:129:GLU:CD	2.59	0.45
1:A:1167:SER:O	1:A:1171:THR:C	2.60	0.45
1:A:1563:ARG:NH1	2:F:181:UNK:HA	2.28	0.45
1:C:1237:TYR:CG	1:C:1237:TYR:O	2.70	0.45
1:C:1490:PHE:CE2	1:C:1492:ASN:OD1	2.64	0.45
2:F:126:GLU:OE2	2:F:129:GLU:CD	2.59	0.45
2:F:190:UNK:C	2:F:192:UNK:N	2.79	0.45
1:A:1077:VAL:HG12	1:A:1079:THR:HB	1.99	0.45
1:A:1221:VAL:CG1	1:A:1222:SER:H	1.95	0.45
1:A:1297:GLU:OE1	1:A:1297:GLU:HA	2.16	0.45
1:A:1569:CYS:C	1:A:1571:PHE:N	2.73	0.45
1:A:1619:LEU:N	1:A:1619:LEU:HD22	2.32	0.45
1:B:1395:ILE:CG2	1:B:1396:THR:N	2.80	0.45
1:B:1564:GLU:O	1:B:1568:ALA:N	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1085:LEU:CD2	1:C:1085:LEU:N	2.76	0.45
1:C:1279:HIS:CD2	1:C:1282:GLU:CG	3.00	0.45
1:C:1371:TYR:CB	1:C:1394:ILE:HG22	2.42	0.45
1:C:1406:ARG:O	1:C:1409:GLN:CB	2.65	0.45
2:D:174:UNK:CA	2:D:175:UNK:CB	2.95	0.45
1:A:1085:LEU:HD12	1:A:1095:ALA:CA	2.47	0.44
1:A:1108:TRP:CZ2	1:A:1129:ILE:HA	2.50	0.44
1:A:1151:GLU:HB3	1:A:1152:GLU:OE2	2.17	0.44
1:A:1235:GLY:O	1:A:1238:GLN:HB2	2.17	0.44
1:A:1296:PHE:HB2	1:A:1297:GLU:H	1.53	0.44
1:A:1451:TYR:O	1:A:1455:VAL:HG23	2.17	0.44
1:A:1466:SER:O	1:A:1469:ASN:HB3	2.17	0.44
1:A:1499:LEU:HB2	1:A:1511:ALA:CB	2.42	0.44
1:B:1108:TRP:CZ3	1:B:1129:ILE:CG1	2.97	0.44
1:B:1596:MET:N	1:B:1597:PRO:CD	2.63	0.44
1:B:1617:GLU:CG	1:B:1621:LYS:NZ	2.79	0.44
1:B:1619:LEU:N	1:B:1619:LEU:HD22	2.32	0.44
1:C:1206:TYR:HD1	1:C:1226:ARG:O	2.00	0.44
1:C:1230:THR:HG22	1:C:1230:THR:O	2.17	0.44
1:C:1400:ASN:OD1	1:C:1402:GLU:HB3	2.17	0.44
1:C:1464:ASN:O	1:C:1468:ASN:N	2.41	0.44
1:C:1474:GLU:HG3	1:C:1476:ASP:H	1.82	0.44
2:E:189:UNK:CA	2:E:194:UNK:CB	2.96	0.44
2:F:94:ARG:HH21	2:F:94:ARG:CG	2.30	0.44
2:F:123:MET:O	2:F:127:TRP:CD2	2.70	0.44
1:A:1279:HIS:HD2	1:A:1282:GLU:CA	2.28	0.44
1:A:1395:ILE:CG2	1:A:1396:THR:N	2.80	0.44
1:B:1077:VAL:C	1:B:1079:THR:N	2.74	0.44
1:B:1077:VAL:HG12	1:B:1079:THR:HB	1.99	0.44
1:B:1155:LYS:O	1:B:1158:GLN:HB3	2.17	0.44
1:B:1170:GLU:C	1:B:1172:GLU:H	2.24	0.44
1:B:1330:GLN:HG3	1:B:1331:LYS:HG3	2.00	0.44
1:B:1480:LEU:HA	1:B:1483:SER:HB3	1.99	0.44
1:B:1499:LEU:HB2	1:B:1511:ALA:CB	2.42	0.44
1:B:1516:LYS:O	1:B:1517:GLY:C	2.60	0.44
1:C:1161:ARG:CZ	1:C:1193:PRO:HA	2.47	0.44
1:C:1170:GLU:CG	1:C:1196:ALA:HB2	2.46	0.44
1:C:1574:TYR:O	1:C:1575:ASP:C	2.61	0.44
2:D:91:GLN:NE2	2:D:94:ARG:HD2	2.32	0.44
1:A:1475:GLU:OE2	2:F:146:VAL:C	2.52	0.44
1:A:1516:LYS:O	1:A:1517:GLY:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1104:GLU:O	1:B:1108:TRP:HZ2	1.86	0.44
1:B:1209:LYS:HG2	1:B:1230:THR:CG2	2.48	0.44
1:B:1436:VAL:HG11	1:B:1462:SER:HB2	2.00	0.44
1:C:1083:GLN:HE22	1:C:1104:GLU:C	2.26	0.44
1:C:1333:ARG:HA	1:C:1360:GLU:CG	2.46	0.44
1:C:1469:ASN:ND2	1:C:1498:ARG:HH12	2.16	0.44
2:D:191:UNK:C	2:D:196:UNK:CB	2.95	0.44
2:E:123:MET:O	2:E:127:TRP:CD2	2.70	0.44
1:A:1490:PHE:CE2	1:A:1492:ASN:OD1	2.63	0.44
1:A:1597:PRO:CB	1:A:1601:GLN:HE22	2.28	0.44
1:B:1167:SER:O	1:B:1171:THR:C	2.59	0.44
1:B:1204:ARG:NH1	1:B:1207:ASP:OD2	2.51	0.44
1:B:1578:ARG:HH12	1:B:1594:PHE:HE1	1.65	0.44
1:B:1592:MET:HE2	1:B:1592:MET:HA	1.94	0.44
1:C:1279:HIS:HD2	1:C:1282:GLU:CA	2.27	0.44
1:C:1459:ASN:O	1:C:1489:ASN:HB3	2.18	0.44
1:C:1469:ASN:ND2	1:C:1469:ASN:O	2.48	0.44
1:C:1503:GLU:HG3	1:C:1504:LEU:H	1.81	0.44
1:C:1578:ARG:HH12	1:C:1594:PHE:HE1	1.66	0.44
1:A:1111:LEU:HD21	1:A:1115:GLN:HG2	1.98	0.44
1:A:1209:LYS:HG2	1:A:1230:THR:CG2	2.48	0.44
1:A:1333:ARG:HA	1:A:1360:GLU:CG	2.46	0.44
1:A:1561:GLU:CD	1:A:1562:LYS:H	2.24	0.44
1:B:1243:GLY:C	1:B:1245:ARG:H	2.25	0.44
1:C:1166:GLU:CG	1:C:1167:SER:N	2.72	0.44
1:C:1240:ALA:C	1:C:1242:ASP:N	2.74	0.44
1:C:1298:GLU:OE1	1:C:1298:GLU:HA	2.18	0.44
1:C:1451:TYR:O	1:C:1455:VAL:HG23	2.17	0.44
1:C:1466:SER:O	1:C:1469:ASN:HB3	2.17	0.44
1:C:1516:LYS:O	1:C:1517:GLY:C	2.60	0.44
1:C:1590:ASN:CG	1:C:1591:ILE:H	2.25	0.44
1:A:1083:GLN:HE22	1:A:1104:GLU:C	2.26	0.44
1:A:1103:ASN:HA	1:A:1128:TYR:CE2	2.52	0.44
1:A:1166:GLU:O	1:A:1170:GLU:HB3	2.16	0.44
1:A:1170:GLU:O	1:A:1174:ILE:HG13	2.18	0.44
1:A:1279:HIS:CD2	1:A:1282:GLU:CG	3.00	0.44
1:A:1408:ILE:CG2	1:A:1412:LEU:CG	2.95	0.44
1:A:1465:GLU:C	1:A:1465:GLU:OE1	2.59	0.44
1:A:1469:ASN:ND2	1:A:1498:ARG:HH12	2.15	0.44
1:A:1477:TYR:CD1	1:A:1478:GLN:N	2.86	0.44
1:A:1596:MET:N	1:A:1597:PRO:CD	2.63	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1161:ARG:CZ	1:B:1193:PRO:HA	2.47	0.44
1:B:1187:GLU:O	1:B:1190:ILE:HG22	2.18	0.44
1:B:1411:TYR:HA	1:B:1415:LYS:HB2	1.87	0.44
1:B:1451:TYR:O	1:B:1455:VAL:HG23	2.17	0.44
1:C:1158:GLN:C	1:C:1162:LYS:HZ2	2.21	0.44
1:C:1170:GLU:O	1:C:1174:ILE:HG13	2.18	0.44
1:C:1591:ILE:HG12	1:C:1592:MET:H	1.81	0.44
2:E:105:TRP:HA	2:E:108:GLU:CG	2.48	0.44
1:A:1155:LYS:O	1:A:1158:GLN:HB3	2.17	0.44
1:A:1161:ARG:HE	1:A:1170:GLU:CB	2.26	0.44
1:A:1204:ARG:NH1	1:A:1207:ASP:OD2	2.51	0.44
1:A:1324:TYR:CD2	1:A:1332:MET:HA	2.43	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:A:1504:LEU:HG	2:F:149:ASN:O	2.16	0.44
1:B:1298:GLU:OE1	1:B:1298:GLU:HA	2.18	0.44
1:B:1430:LEU:HD12	1:B:1431:ASP:H	1.83	0.44
1:C:1130:LYS:CG	1:C:1156:TYR:CE1	3.01	0.44
1:C:1155:LYS:O	1:C:1158:GLN:HB3	2.17	0.44
1:C:1250:THR:C	1:C:1251:ARG:HG2	2.22	0.44
1:C:1477:TYR:CD1	1:C:1478:GLN:N	2.86	0.44
1:C:1602:VAL:HG21	2:E:202:UNK:C	2.47	0.44
2:D:103:ARG:CZ	2:D:106:ARG:HG3	2.48	0.44
2:D:147:GLU:OE1	2:D:147:GLU:HA	2.05	0.44
1:A:1243:GLY:C	1:A:1245:ARG:H	2.25	0.44
1:A:1474:GLU:HG3	1:A:1476:ASP:H	1.82	0.44
1:A:1503:GLU:HG3	1:A:1504:LEU:H	1.81	0.44
1:A:1548:GLU:CD	1:A:1548:GLU:N	2.75	0.44
1:A:1561:GLU:HG3	1:A:1563:ARG:H	1.82	0.44
1:B:1083:GLN:HE22	1:B:1104:GLU:C	2.26	0.44
1:B:1235:GLY:O	1:B:1238:GLN:HB2	2.17	0.44
1:B:1469:ASN:HD22	1:B:1469:ASN:C	2.20	0.44
1:B:1518:ASN:O	1:B:1518:ASN:ND2	2.50	0.44
1:C:1103:ASN:HA	1:C:1128:TYR:CE2	2.52	0.44
1:C:1111:LEU:CD2	1:C:1115:GLN:CG	2.93	0.44
1:C:1431:ASP:C	1:C:1433:THR:H	2.17	0.44
2:D:118:ALA:CA	2:D:121:LYS:HE3	2.41	0.44
2:F:196:UNK:O	2:F:197:UNK:O	2.36	0.44
1:A:1336:LEU:C	1:A:1338:LEU:N	2.76	0.44
1:A:1452:LEU:HD13	1:A:1467:LEU:HD13	1.99	0.44
1:A:1576:LEU:HD12	1:A:1576:LEU:HA	1.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1592:MET:HE2	1:A:1592:MET:HA	1.94	0.44
1:B:1282:GLU:CG	1:B:1283:LEU:N	2.61	0.44
1:B:1303:LEU:C	1:B:1305:ALA:H	2.26	0.44
1:B:1326:LYS:O	2:D:104:LYS:CE	2.60	0.44
1:B:1336:LEU:C	1:B:1338:LEU:N	2.76	0.44
1:B:1371:TYR:CB	1:B:1394:ILE:HG22	2.42	0.44
1:C:1204:ARG:NH1	1:C:1207:ASP:OD2	2.51	0.44
1:C:1272:CYS:O	1:C:1276:ILE:HG23	2.18	0.44
1:C:1332:MET:SD	1:C:1360:GLU:HB2	2.58	0.44
1:C:1395:ILE:CG2	1:C:1396:THR:N	2.80	0.44
1:C:1430:LEU:HD12	1:C:1431:ASP:H	1.83	0.44
1:C:1444:GLN:HE21	2:E:130:LYS:HD2	1.83	0.44
1:C:1477:TYR:O	1:C:1481:ARG:HB2	2.18	0.44
2:F:109:GLN:O	2:F:112:ARG:CB	2.66	0.44
2:F:195:UNK:O	2:F:197:UNK:N	2.49	0.44
1:A:1158:GLN:C	1:A:1162:LYS:HZ2	2.20	0.43
1:A:1161:ARG:CZ	1:A:1193:PRO:HA	2.47	0.43
1:A:1206:TYR:CE1	1:A:1230:THR:OG1	2.67	0.43
1:A:1362:VAL:HG23	1:A:1377:THR:HG21	1.99	0.43
1:B:1333:ARG:CG	1:B:1360:GLU:HG3	2.48	0.43
1:B:1444:GLN:CG	2:D:134:ASP:CG	2.91	0.43
1:B:1452:LEU:HD13	1:B:1467:LEU:HD13	1.99	0.43
1:C:1209:LYS:HG2	1:C:1230:THR:CG2	2.48	0.43
1:C:1332:MET:HG3	1:C:1357:LEU:HD12	1.98	0.43
1:C:1333:ARG:HB2	1:C:1360:GLU:HG2	1.92	0.43
1:C:1420:ASN:C	1:C:1422:LEU:N	2.72	0.43
1:C:1467:LEU:O	1:C:1470:LEU:HB2	2.18	0.43
2:D:103:ARG:HA	2:D:103:ARG:HD2	1.59	0.43
2:E:91:GLN:O	2:E:92:ALA:HB2	2.18	0.43
1:A:1345:ILE:HG21	1:A:1368:TYR:HD2	1.83	0.43
1:A:1458:HIS:C	1:A:1460:ASN:N	2.76	0.43
1:A:1600:ILE:C	1:A:1601:GLN:OE1	2.61	0.43
1:B:1111:LEU:HD21	1:B:1125:ILE:HG12	2.00	0.43
1:B:1234:LEU:C	1:B:1236:GLU:N	2.70	0.43
1:B:1332:MET:SD	1:B:1360:GLU:HB2	2.58	0.43
1:B:1345:ILE:HG21	1:B:1368:TYR:HD2	1.83	0.43
1:B:1347:LYS:HD3	1:B:1347:LYS:C	2.43	0.43
1:B:1477:TYR:CD1	1:B:1478:GLN:N	2.86	0.43
1:B:1548:GLU:CD	1:B:1548:GLU:N	2.75	0.43
1:C:1175:PHE:CE1	1:C:1200:GLN:HB3	2.53	0.43
1:C:1345:ILE:HG21	1:C:1368:TYR:HD2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1480:LEU:HA	1:C:1483:SER:HB3	1.99	0.43
1:C:1578:ARG:NH2	1:C:1583:LEU:HD23	2.27	0.43
1:C:1587:TRP:N	1:C:1587:TRP:CD1	2.86	0.43
1:A:1130:LYS:CG	1:A:1156:TYR:CE1	3.01	0.43
1:A:1204:ARG:O	1:A:1208:GLU:N	2.48	0.43
1:A:1206:TYR:HD1	1:A:1226:ARG:O	2.00	0.43
1:A:1376:ILE:HA	1:A:1379:MET:HG3	2.00	0.43
1:A:1504:LEU:HG	2:F:149:ASN:C	2.43	0.43
1:A:1590:ASN:CG	1:A:1591:ILE:H	2.26	0.43
1:B:1130:LYS:CG	1:B:1156:TYR:CE1	3.01	0.43
1:B:1272:CYS:O	1:B:1276:ILE:HG23	2.18	0.43
1:B:1619:LEU:O	1:B:1620:ARG:C	2.59	0.43
1:C:1358:TRP:C	1:C:1385:ALA:HB2	2.43	0.43
1:C:1467:LEU:HG	1:C:1471:PHE:HE2	1.82	0.43
1:C:1588:ARG:NE	2:D:197:UNK:CB	2.81	0.43
1:C:1591:ILE:O	1:C:1594:PHE:HB2	2.18	0.43
1:C:1609:LYS:HA	1:C:1612:LYS:CG	2.47	0.43
2:D:155:ILE:N	2:D:155:ILE:CD1	2.78	0.43
2:F:147:GLU:OE1	2:F:147:GLU:HA	2.05	0.43
1:A:1578:ARG:HH12	1:A:1594:PHE:HE1	1.66	0.43
1:A:1590:ASN:CG	1:A:1591:ILE:N	2.76	0.43
1:B:1302:MET:C	1:B:1302:MET:SD	3.01	0.43
1:B:1303:LEU:C	1:B:1305:ALA:N	2.76	0.43
1:B:1466:SER:O	1:B:1469:ASN:HB3	2.17	0.43
1:B:1477:TYR:O	1:B:1481:ARG:HB2	2.18	0.43
1:B:1590:ASN:CG	1:B:1591:ILE:H	2.25	0.43
1:B:1600:ILE:C	1:B:1601:GLN:OE1	2.61	0.43
1:B:1606:TYR:C	1:B:1608:THR:H	2.27	0.43
1:C:1187:GLU:O	1:C:1190:ILE:HG22	2.18	0.43
1:C:1435:ALA:O	1:C:1439:PHE:HD2	2.01	0.43
1:A:1091:ASN:C	1:A:1091:ASN:HD22	2.24	0.43
1:A:1187:GLU:O	1:A:1190:ILE:HG22	2.18	0.43
1:A:1272:CYS:O	1:A:1276:ILE:HG23	2.18	0.43
1:A:1302:MET:C	1:A:1302:MET:SD	3.01	0.43
1:A:1436:VAL:HG11	1:A:1462:SER:HB2	2.00	0.43
1:A:1591:ILE:O	1:A:1594:PHE:HB2	2.18	0.43
1:B:1321:ALA:C	1:B:1323:LEU:N	2.76	0.43
1:B:1424:MET:O	1:B:1427:SER:OG	2.31	0.43
1:B:1435:ALA:HB1	1:B:1439:PHE:HE2	1.83	0.43
1:C:1170:GLU:C	1:C:1172:GLU:H	2.25	0.43
1:C:1419:LEU:HD23	1:C:1447:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1086:ILE:O	1:A:1090:GLY:N	2.52	0.43
1:A:1170:GLU:C	1:A:1172:GLU:H	2.25	0.43
1:A:1298:GLU:OE1	1:A:1298:GLU:HA	2.18	0.43
1:A:1347:LYS:HD3	1:A:1347:LYS:C	2.43	0.43
1:A:1435:ALA:HB1	1:A:1439:PHE:HE2	1.83	0.43
1:A:1609:LYS:HA	1:A:1612:LYS:CG	2.47	0.43
1:B:1340:TRP:CZ3	1:B:1367:LYS:HD2	2.54	0.43
1:B:1440:SER:C	1:B:1442:VAL:H	2.27	0.43
1:B:1554:LEU:CD1	1:B:1568:ALA:HB2	2.44	0.43
1:B:1591:ILE:O	1:B:1594:PHE:HB2	2.18	0.43
1:C:1348:VAL:O	1:C:1352:ALA:N	2.52	0.43
1:C:1370:GLU:HA	1:C:1370:GLU:OE1	2.19	0.43
1:A:1303:LEU:C	1:A:1305:ALA:H	2.26	0.43
1:A:1303:LEU:C	1:A:1305:ALA:N	2.76	0.43
1:A:1330:GLN:HG3	1:A:1331:LYS:HG3	2.00	0.43
1:A:1333:ARG:HB2	1:A:1360:GLU:HG3	1.89	0.43
1:A:1370:GLU:OE1	1:A:1370:GLU:HA	2.19	0.43
1:A:1440:SER:C	1:A:1442:VAL:H	2.27	0.43
1:B:1344:ASN:OD1	1:B:1345:ILE:N	2.52	0.43
1:B:1420:ASN:C	1:B:1422:LEU:N	2.72	0.43
1:B:1459:ASN:O	1:B:1489:ASN:HB3	2.18	0.43
1:B:1590:ASN:CG	1:B:1591:ILE:N	2.76	0.43
1:C:1111:LEU:HD21	1:C:1125:ILE:HG12	2.00	0.43
1:C:1302:MET:C	1:C:1302:MET:SD	3.01	0.43
1:C:1330:GLN:HG3	1:C:1331:LYS:HG3	1.99	0.43
1:C:1347:LYS:HD3	1:C:1347:LYS:C	2.43	0.43
1:C:1436:VAL:HG11	1:C:1462:SER:HB2	2.00	0.43
1:C:1569:CYS:C	1:C:1571:PHE:N	2.74	0.43
1:C:1600:ILE:C	1:C:1601:GLN:OE1	2.61	0.43
2:F:91:GLN:HE21	2:F:91:GLN:HB3	1.67	0.43
2:F:131:ALA:HA	2:F:134:ASP:OD2	2.13	0.43
1:A:1167:SER:HA	1:A:1171:THR:N	2.29	0.43
1:A:1371:TYR:CB	1:A:1394:ILE:HG22	2.42	0.43
1:A:1412:LEU:HA	1:A:1419:LEU:HD13	1.99	0.43
1:A:1477:TYR:O	1:A:1481:ARG:HB2	2.18	0.43
1:B:1279:HIS:CD2	1:B:1282:GLU:CG	3.00	0.43
1:B:1318:THR:HG22	1:B:1347:LYS:HZ1	1.84	0.43
1:B:1376:ILE:HA	1:B:1379:MET:HG3	2.00	0.43
1:B:1401:VAL:HG22	1:B:1429:ARG:HH21	1.84	0.43
1:B:1425:VAL:CG2	1:B:1426:LEU:H	2.18	0.43
1:C:1146:THR:C	1:C:1148:GLY:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1340:TRP:CZ3	1:C:1367:LYS:HD2	2.54	0.43
1:C:1344:ASN:OD1	1:C:1345:ILE:N	2.52	0.43
1:C:1376:ILE:HA	1:C:1379:MET:HG3	2.00	0.43
1:A:1340:TRP:CZ3	1:A:1367:LYS:HD2	2.54	0.43
1:A:1344:ASN:OD1	1:A:1345:ILE:N	2.52	0.43
1:A:1358:TRP:CZ2	2:F:112:ARG:NH2	2.87	0.43
1:A:1599:PHE:CE2	1:A:1600:ILE:HG13	2.54	0.43
1:B:1146:THR:C	1:B:1148:GLY:N	2.76	0.43
1:B:1303:LEU:HD23	1:B:1303:LEU:H	1.84	0.43
1:B:1400:ASN:OD1	1:B:1402:GLU:HB3	2.17	0.43
1:B:1587:TRP:N	1:B:1587:TRP:CD1	2.86	0.43
1:C:1113:LYS:CB	1:C:1139:GLU:OE2	2.65	0.43
1:C:1175:PHE:O	1:C:1178:ALA:HB3	2.19	0.43
1:C:1261:VAL:HG13	1:C:1295:TYR:CE1	2.54	0.43
1:C:1325:SER:OG	1:C:1326:LYS:HE3	2.19	0.43
1:C:1333:ARG:CB	1:C:1360:GLU:HG2	2.46	0.43
2:E:108:GLU:OE1	2:E:108:GLU:O	2.37	0.43
2:F:162:GLN:CB	2:F:166:ALA:CB	2.96	0.43
1:A:1146:THR:C	1:A:1148:GLY:N	2.76	0.43
1:A:1170:GLU:O	1:A:1173:LEU:N	2.52	0.43
1:A:1174:ILE:HG12	1:A:1189:PHE:HE1	1.84	0.43
1:A:1390:GLN:HB2	1:A:1390:GLN:HE21	1.63	0.43
1:B:1170:GLU:O	1:B:1174:ILE:HG13	2.18	0.43
1:B:1206:TYR:HD1	1:B:1226:ARG:O	2.00	0.43
1:B:1279:HIS:CB	1:B:1282:GLU:CB	2.86	0.43
1:B:1435:ALA:O	1:B:1439:PHE:HD2	2.01	0.43
1:B:1574:TYR:O	1:B:1575:ASP:C	2.61	0.43
1:C:1161:ARG:O	1:C:1165:ARG:HB3	2.19	0.43
1:C:1161:ARG:HD3	1:C:1165:ARG:HD3	2.01	0.43
1:C:1387:LYS:O	1:C:1388:GLU:C	2.61	0.43
1:C:1440:SER:C	1:C:1442:VAL:H	2.27	0.43
1:C:1472:ILE:CG2	1:C:1498:ARG:HE	2.20	0.43
1:A:1303:LEU:HD23	1:A:1303:LEU:H	1.84	0.42
1:A:1329:PRO:O	1:A:1332:MET:N	2.45	0.42
1:A:1332:MET:SD	1:A:1360:GLU:HB2	2.58	0.42
1:A:1609:LYS:HG2	1:A:1612:LYS:CD	2.44	0.42
1:B:1107:VAL:HG12	1:B:1111:LEU:CB	2.42	0.42
1:B:1130:LYS:CE	1:B:1156:TYR:HA	2.42	0.42
1:B:1213:ALA:O	1:B:1217:LEU:HB2	2.20	0.42
1:B:1325:SER:OG	1:B:1326:LYS:HE3	2.19	0.42
1:B:1326:LYS:C	1:B:1327:PHE:CG	2.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1332:MET:HG3	1:B:1357:LEU:HD12	1.98	0.42
1:B:1362:VAL:HG23	1:B:1377:THR:HG21	1.98	0.42
1:B:1458:HIS:C	1:B:1460:ASN:N	2.76	0.42
1:B:1467:LEU:O	1:B:1470:LEU:HB2	2.18	0.42
1:B:1517:GLY:O	1:B:1519:ASN:N	2.52	0.42
1:C:1162:LYS:CD	1:C:1163:LYS:HZ2	2.29	0.42
1:C:1377:THR:C	1:C:1381:HIS:HD2	2.27	0.42
1:C:1606:TYR:C	1:C:1608:THR:H	2.27	0.42
2:D:173:UNK:C	2:D:176:UNK:N	2.82	0.42
2:E:134:ASP:C	2:E:137:GLU:HB2	2.44	0.42
2:E:145:GLN:O	2:E:149:ASN:ND2	2.52	0.42
2:F:94:ARG:HG2	2:F:94:ARG:HH21	1.84	0.42
2:F:134:ASP:C	2:F:137:GLU:HB2	2.44	0.42
1:A:1082:VAL:HB	1:A:1098:PHE:O	2.19	0.42
1:A:1332:MET:HG3	1:A:1357:LEU:HD12	1.98	0.42
1:A:1358:TRP:C	1:A:1385:ALA:HB2	2.43	0.42
1:A:1387:LYS:O	1:A:1388:GLU:C	2.61	0.42
1:B:1104:GLU:HB2	1:B:1108:TRP:HH2	1.76	0.42
1:B:1240:ALA:C	1:B:1242:ASP:N	2.73	0.42
1:B:1277:VAL:HG11	1:B:1302:MET:HE2	2.01	0.42
1:B:1401:VAL:C	1:B:1404:TYR:HD1	2.27	0.42
1:B:1566:PHE:CE1	2:D:179:UNK:CB	2.95	0.42
1:C:1303:LEU:C	1:C:1305:ALA:N	2.76	0.42
1:C:1417:LEU:HD22	1:C:1417:LEU:HA	1.90	0.42
1:C:1458:HIS:C	1:C:1460:ASN:N	2.76	0.42
1:C:1504:LEU:HG	2:E:149:ASN:OD1	2.20	0.42
2:E:98:GLU:C	2:E:101:SER:HB3	2.43	0.42
1:A:1130:LYS:HD2	1:A:1156:TYR:CZ	2.40	0.42
1:A:1274:LEU:H	1:A:1274:LEU:CD1	2.20	0.42
1:A:1277:VAL:HG11	1:A:1302:MET:HE2	2.01	0.42
1:B:1086:ILE:O	1:B:1090:GLY:N	2.52	0.42
1:B:1170:GLU:O	1:B:1173:LEU:N	2.52	0.42
1:B:1174:ILE:HG12	1:B:1189:PHE:HE1	1.84	0.42
1:B:1323:LEU:O	1:B:1327:PHE:CD2	2.72	0.42
1:B:1358:TRP:C	1:B:1385:ALA:HB2	2.44	0.42
1:B:1377:THR:C	1:B:1381:HIS:HD2	2.27	0.42
1:C:1094:ARG:O	1:C:1097:GLU:HB2	2.20	0.42
1:C:1213:ALA:O	1:C:1217:LEU:HB2	2.19	0.42
1:C:1230:THR:O	1:C:1231:LEU:HG	2.20	0.42
1:C:1257:CYS:CB	1:C:1289:TYR:OH	2.64	0.42
1:C:1303:LEU:C	1:C:1305:ALA:H	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1333:ARG:CG	1:C:1360:GLU:HG3	2.48	0.42
1:C:1443:LYS:O	1:C:1444:GLN:HG3	2.19	0.42
1:C:1445:LEU:HD23	1:C:1445:LEU:C	2.45	0.42
1:C:1524:SER:C	1:C:1526:GLU:N	2.77	0.42
1:C:1554:LEU:CD1	1:C:1568:ALA:HB2	2.44	0.42
1:A:1373:ASN:HA	1:A:1376:ILE:HD12	2.01	0.42
1:A:1443:LYS:O	1:A:1444:GLN:HG3	2.19	0.42
1:A:1513:TYR:O	1:A:1516:LYS:N	2.52	0.42
1:A:1517:GLY:O	1:A:1519:ASN:N	2.52	0.42
1:B:1161:ARG:HA	1:B:1165:ARG:N	2.34	0.42
1:B:1175:PHE:CE1	1:B:1200:GLN:HB3	2.53	0.42
1:B:1261:VAL:HG13	1:B:1295:TYR:CE1	2.54	0.42
1:B:1471:PHE:HA	1:B:1474:GLU:CG	2.43	0.42
1:B:1521:TRP:CZ3	1:B:1522:LYS:CD	3.01	0.42
1:B:1599:PHE:CE2	1:B:1600:ILE:HG13	2.54	0.42
1:C:1165:ARG:CG	1:C:1170:GLU:OE1	2.68	0.42
1:C:1170:GLU:O	1:C:1173:LEU:N	2.52	0.42
1:C:1362:VAL:HG23	1:C:1377:THR:HG21	1.98	0.42
1:C:1469:ASN:ND2	1:C:1498:ARG:NH1	2.67	0.42
1:C:1492:ASN:C	1:C:1493:ILE:CG1	2.83	0.42
1:A:1094:ARG:O	1:A:1097:GLU:HB2	2.20	0.42
1:A:1111:LEU:HD21	1:A:1125:ILE:HG12	2.00	0.42
1:A:1213:ALA:O	1:A:1217:LEU:HB2	2.19	0.42
1:A:1333:ARG:CG	1:A:1360:GLU:HG3	2.48	0.42
1:A:1435:ALA:O	1:A:1439:PHE:HD2	2.01	0.42
1:A:1521:TRP:CZ3	1:A:1525:VAL:HG11	2.55	0.42
1:B:1111:LEU:HD21	1:B:1115:GLN:HG2	1.99	0.42
1:B:1443:LYS:O	1:B:1444:GLN:HG3	2.20	0.42
1:C:1082:VAL:C	1:C:1084:VAL:N	2.77	0.42
1:C:1086:ILE:O	1:C:1090:GLY:N	2.52	0.42
1:C:1243:GLY:C	1:C:1245:ARG:H	2.25	0.42
1:C:1277:VAL:HG11	1:C:1302:MET:HE2	2.01	0.42
1:C:1340:TRP:H	1:C:1340:TRP:HD1	1.67	0.42
2:D:201:UNK:O	2:D:202:UNK:C	2.66	0.42
1:A:1086:ILE:C	1:A:1088:HIS:H	2.28	0.42
1:A:1230:THR:O	1:A:1231:LEU:HG	2.20	0.42
1:A:1240:ALA:C	1:A:1242:ASP:N	2.74	0.42
1:A:1387:LYS:O	1:A:1389:GLY:N	2.53	0.42
1:A:1456:GLN:HE22	1:A:1467:LEU:CD2	2.33	0.42
1:B:1225:GLY:C	1:B:1227:LEU:N	2.77	0.42
1:B:1387:LYS:O	1:B:1389:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1388:GLU:CG	1:B:1389:GLY:N	2.82	0.42
1:B:1469:ASN:ND2	1:B:1498:ARG:NH1	2.67	0.42
1:C:1170:GLU:CG	1:C:1171:THR:N	2.83	0.42
1:C:1456:GLN:HE22	1:C:1467:LEU:CD2	2.33	0.42
1:C:1513:TYR:O	1:C:1516:LYS:N	2.52	0.42
1:C:1590:ASN:CG	1:C:1591:ILE:N	2.76	0.42
2:D:137:GLU:HG3	2:D:141:ARG:HH12	1.84	0.42
1:A:1165:ARG:CG	1:A:1170:GLU:OE1	2.68	0.42
1:A:1170:GLU:OE1	1:A:1195:ASN:OD1	2.38	0.42
1:A:1333:ARG:CA	1:A:1360:GLU:CG	2.97	0.42
1:A:1340:TRP:H	1:A:1340:TRP:HD1	1.67	0.42
1:A:1348:VAL:O	1:A:1352:ALA:N	2.52	0.42
1:A:1561:GLU:CG	1:A:1562:LYS:H	2.33	0.42
1:B:1085:LEU:CD2	1:B:1085:LEU:N	2.76	0.42
1:B:1121:VAL:HG12	1:B:1124:ALA:HB3	2.01	0.42
1:B:1340:TRP:H	1:B:1340:TRP:HD1	1.67	0.42
1:B:1387:LYS:O	1:B:1388:GLU:C	2.61	0.42
1:B:1508:ARG:CZ	1:B:1530:LYS:HD3	2.49	0.42
1:C:1401:VAL:C	1:C:1404:TYR:HD1	2.27	0.42
2:D:114:GLN:O	2:D:115:GLU:C	2.63	0.42
2:E:105:TRP:CA	2:E:108:GLU:CG	2.98	0.42
1:A:1175:PHE:O	1:A:1178:ALA:HB3	2.19	0.42
1:A:1325:SER:OG	1:A:1326:LYS:HE3	2.19	0.42
1:A:1358:TRP:CE2	2:F:115:GLU:HG2	2.46	0.42
1:A:1469:ASN:ND2	1:A:1498:ARG:NH1	2.67	0.42
1:A:1471:PHE:HD1	1:A:1476:ASP:HB3	1.85	0.42
1:A:1472:ILE:CG2	1:A:1498:ARG:HH21	2.33	0.42
1:B:1165:ARG:CG	1:B:1170:GLU:OE1	2.68	0.42
1:B:1175:PHE:O	1:B:1178:ALA:HB3	2.19	0.42
1:B:1206:TYR:CZ	1:B:1226:ARG:HD2	2.55	0.42
1:B:1419:LEU:HD23	1:B:1447:LEU:HD13	2.01	0.42
1:B:1472:ILE:CG2	1:B:1498:ARG:HE	2.21	0.42
1:C:1091:ASN:C	1:C:1091:ASN:HD22	2.24	0.42
1:C:1107:VAL:HG12	1:C:1111:LEU:CB	2.42	0.42
1:C:1206:TYR:CZ	1:C:1226:ARG:HD2	2.55	0.42
1:C:1388:GLU:CG	1:C:1389:GLY:N	2.82	0.42
1:C:1472:ILE:CG2	1:C:1498:ARG:HH21	2.33	0.42
1:A:1082:VAL:C	1:A:1084:VAL:N	2.77	0.42
1:A:1161:ARG:HA	1:A:1165:ARG:N	2.34	0.42
1:A:1206:TYR:CZ	1:A:1226:ARG:HD2	2.55	0.42
1:A:1261:VAL:HG13	1:A:1295:TYR:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1445:LEU:HD23	1:A:1445:LEU:C	2.45	0.42
1:A:1621:LYS:HB3	1:A:1625:GLN:NE2	2.35	0.42
1:B:1082:VAL:C	1:B:1084:VAL:N	2.77	0.42
1:B:1094:ARG:O	1:B:1097:GLU:HB2	2.20	0.42
1:B:1167:SER:O	1:B:1172:GLU:N	2.53	0.42
1:B:1456:GLN:HE22	1:B:1467:LEU:CD2	2.33	0.42
1:B:1513:TYR:O	1:B:1516:LYS:N	2.52	0.42
1:B:1548:GLU:C	1:B:1550:ALA:N	2.77	0.42
1:C:1225:GLY:C	1:C:1227:LEU:N	2.77	0.42
1:C:1333:ARG:O	1:C:1334:GLU:C	2.62	0.42
1:C:1368:TYR:HD1	1:C:1368:TYR:O	2.03	0.42
1:C:1521:TRP:CZ3	1:C:1525:VAL:HG11	2.54	0.42
2:D:145:GLN:O	2:D:149:ASN:ND2	2.52	0.42
2:E:114:GLN:O	2:E:115:GLU:C	2.63	0.42
2:E:119:ALA:HA	2:E:123:MET:HE2	2.02	0.42
1:A:1388:GLU:CG	1:A:1389:GLY:N	2.82	0.42
1:A:1401:VAL:C	1:A:1404:TYR:HD1	2.27	0.42
1:B:1079:THR:HA	1:B:1102:CYS:CB	2.39	0.42
1:B:1082:VAL:HB	1:B:1098:PHE:O	2.19	0.42
1:B:1370:GLU:OE1	1:B:1370:GLU:HA	2.19	0.42
1:B:1505:ILE:HD11	2:D:162:GLN:CB	2.49	0.42
1:B:1521:TRP:CZ3	1:B:1525:VAL:HG11	2.54	0.42
1:B:1597:PRO:HA	1:B:1599:PHE:CE1	2.55	0.42
1:B:1609:LYS:HA	1:B:1612:LYS:CG	2.47	0.42
1:C:1174:ILE:HG12	1:C:1189:PHE:HE1	1.84	0.42
1:C:1345:ILE:HB	1:C:1368:TYR:HE2	1.84	0.42
1:C:1401:VAL:HG22	1:C:1429:ARG:HH21	1.84	0.42
1:C:1474:GLU:O	1:C:1475:GLU:CB	2.68	0.42
1:C:1533:LEU:O	1:C:1535:LYS:N	2.53	0.42
1:C:1597:PRO:CB	1:C:1601:GLN:HE22	2.27	0.42
2:E:94:ARG:C	2:E:96:THR:N	2.73	0.42
2:E:147:GLU:OE1	2:E:147:GLU:HA	2.05	0.42
2:F:107:GLU:O	2:F:110:ARG:HG2	2.20	0.42
2:F:119:ALA:HA	2:F:123:MET:HE2	2.02	0.42
1:A:1296:PHE:HZ	2:F:101:SER:HA	1.84	0.41
1:A:1326:LYS:C	1:A:1327:PHE:CG	2.94	0.41
1:A:1377:THR:C	1:A:1381:HIS:HD2	2.27	0.41
1:A:1533:LEU:O	1:A:1535:LYS:N	2.53	0.41
1:B:1111:LEU:C	1:B:1111:LEU:HD13	2.44	0.41
1:B:1154:VAL:CB	1:B:1180:THR:HG21	2.50	0.41
1:B:1345:ILE:HB	1:B:1368:TYR:HE2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1373:ASN:HA	1:B:1376:ILE:HD12	2.02	0.41
1:B:1406:ARG:O	1:B:1409:GLN:CB	2.64	0.41
1:B:1609:LYS:HG2	1:B:1612:LYS:CD	2.44	0.41
1:C:1161:ARG:HA	1:C:1165:ARG:N	2.34	0.41
1:C:1373:ASN:HA	1:C:1376:ILE:HD12	2.02	0.41
2:D:107:GLU:O	2:D:110:ARG:HG2	2.20	0.41
2:E:105:TRP:HA	2:E:108:GLU:OE2	2.20	0.41
1:A:1107:VAL:HG12	1:A:1111:LEU:CB	2.42	0.41
1:A:1121:VAL:HG12	1:A:1124:ALA:HB3	2.01	0.41
1:A:1209:LYS:HB3	1:A:1230:THR:CG2	2.34	0.41
1:A:1323:LEU:O	1:A:1327:PHE:CD2	2.72	0.41
1:A:1345:ILE:HB	1:A:1368:TYR:HE2	1.84	0.41
1:A:1350:ARG:C	1:A:1354:GLN:HB3	2.45	0.41
1:A:1358:TRP:HE1	2:F:115:GLU:HG2	1.71	0.41
1:A:1401:VAL:HG22	1:A:1429:ARG:HH21	1.84	0.41
1:A:1406:ARG:O	1:A:1409:GLN:CB	2.65	0.41
1:A:1419:LEU:HD23	1:A:1447:LEU:HD13	2.01	0.41
1:A:1554:LEU:HB2	1:A:1571:PHE:CE2	2.56	0.41
1:B:1154:VAL:HG13	1:B:1176:ALA:HB1	2.01	0.41
1:B:1162:LYS:CD	1:B:1163:LYS:HZ1	2.29	0.41
1:B:1167:SER:CB	1:B:1197:HIS:H	2.30	0.41
1:B:1348:VAL:O	1:B:1352:ALA:N	2.52	0.41
1:B:1350:ARG:C	1:B:1354:GLN:HB3	2.45	0.41
1:B:1445:LEU:HD23	1:B:1445:LEU:C	2.44	0.41
1:B:1448:VAL:O	1:B:1449:LYS:C	2.63	0.41
1:B:1533:LEU:O	1:B:1535:LYS:N	2.53	0.41
1:B:1561:GLU:CG	1:B:1562:LYS:H	2.33	0.41
1:C:1154:VAL:HG13	1:C:1176:ALA:HB1	2.01	0.41
1:C:1234:LEU:C	1:C:1236:GLU:N	2.70	0.41
1:C:1323:LEU:O	1:C:1327:PHE:CD2	2.72	0.41
1:C:1412:LEU:HA	1:C:1419:LEU:HD13	1.98	0.41
1:C:1435:ALA:HB1	1:C:1439:PHE:HE2	1.83	0.41
1:C:1517:GLY:O	1:C:1519:ASN:N	2.53	0.41
1:C:1520:ARG:H	1:C:1520:ARG:HD2	1.85	0.41
1:C:1596:MET:N	1:C:1597:PRO:CD	2.63	0.41
1:C:1599:PHE:CE2	1:C:1600:ILE:HG13	2.54	0.41
1:A:1326:LYS:C	1:A:1327:PHE:CD1	2.94	0.41
1:A:1342:ARG:O	1:A:1343:VAL:HB	2.21	0.41
1:A:1464:ASN:O	1:A:1468:ASN:N	2.41	0.41
1:A:1474:GLU:O	1:A:1475:GLU:CB	2.68	0.41
1:B:1092:LEU:C	1:B:1094:ARG:N	2.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1230:THR:O	1:B:1231:LEU:HG	2.20	0.41
1:B:1368:TYR:O	1:B:1368:TYR:HD1	2.03	0.41
1:B:1521:TRP:CH2	1:B:1525:VAL:HG11	2.56	0.41
1:B:1533:LEU:CD2	1:B:1535:LYS:HB2	2.50	0.41
1:C:1121:VAL:HG12	1:C:1124:ALA:HB3	2.01	0.41
1:C:1329:PRO:HB2	1:C:1330:GLN:H	1.62	0.41
1:C:1448:VAL:O	1:C:1449:LYS:C	2.63	0.41
1:C:1597:PRO:HA	1:C:1599:PHE:CE1	2.55	0.41
1:A:1177:LEU:O	1:A:1178:ALA:C	2.64	0.41
1:A:1209:LYS:HD3	1:A:1231:LEU:HB3	2.02	0.41
1:A:1358:TRP:CH2	1:A:1381:HIS:CD2	2.92	0.41
1:A:1474:GLU:O	1:A:1475:GLU:HB2	2.21	0.41
1:A:1521:TRP:CZ3	1:A:1522:LYS:CD	3.01	0.41
1:A:1533:LEU:CD2	1:A:1535:LYS:HB2	2.50	0.41
1:A:1574:TYR:O	1:A:1575:ASP:C	2.61	0.41
1:B:1291:GLN:O	1:B:1294:GLY:N	2.42	0.41
1:B:1327:PHE:CB	2:D:104:LYS:NZ	2.81	0.41
1:C:1086:ILE:C	1:C:1088:HIS:H	2.28	0.41
1:C:1236:GLU:C	1:C:1238:GLN:N	2.78	0.41
1:C:1469:ASN:ND2	1:C:1469:ASN:C	2.78	0.41
1:C:1521:TRP:CH2	1:C:1525:VAL:HG11	2.56	0.41
1:C:1548:GLU:C	1:C:1550:ALA:N	2.77	0.41
1:C:1554:LEU:HB2	1:C:1571:PHE:CE2	2.55	0.41
1:C:1561:GLU:CG	1:C:1562:LYS:H	2.33	0.41
1:C:1617:GLU:HA	1:C:1620:ARG:CZ	2.50	0.41
2:E:152:ASN:O	2:E:153:ASN:CB	2.59	0.41
2:F:163:GLN:H	2:F:166:ALA:HB3	1.75	0.41
1:A:1111:LEU:C	1:A:1111:LEU:HD13	2.45	0.41
1:A:1209:LYS:H	1:A:1209:LYS:HG3	1.65	0.41
1:A:1332:MET:HB3	1:A:1332:MET:HE3	1.76	0.41
1:A:1379:MET:C	1:A:1380:ASN:HD22	2.28	0.41
1:A:1392:LYS:HB3	1:A:1392:LYS:HE2	1.87	0.41
1:A:1420:ASN:HA	1:A:1423:LEU:CD1	2.50	0.41
1:A:1467:LEU:O	1:A:1470:LEU:HB2	2.18	0.41
1:A:1597:PRO:HA	1:A:1599:PHE:CE1	2.55	0.41
1:A:1598:TYR:HE1	1:B:1588:ARG:HB2	1.69	0.41
1:B:1086:ILE:C	1:B:1088:HIS:H	2.28	0.41
1:B:1170:GLU:OE1	1:B:1195:ASN:OD1	2.38	0.41
1:B:1170:GLU:CG	1:B:1171:THR:N	2.83	0.41
1:B:1318:THR:HG22	1:B:1347:LYS:NZ	2.35	0.41
1:B:1352:ALA:C	1:B:1354:GLN:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1554:LEU:HB2	1:B:1571:PHE:CE2	2.55	0.41
1:C:1111:LEU:C	1:C:1111:LEU:HD13	2.45	0.41
1:C:1170:GLU:OE1	1:C:1195:ASN:OD1	2.38	0.41
1:C:1352:ALA:C	1:C:1354:GLN:H	2.28	0.41
1:C:1387:LYS:O	1:C:1389:GLY:N	2.53	0.41
2:D:186:UNK:C	2:D:188:UNK:N	2.83	0.41
2:E:134:ASP:HA	2:E:137:GLU:OE1	2.21	0.41
1:A:1154:VAL:HG13	1:A:1176:ALA:HB1	2.01	0.41
1:A:1167:SER:O	1:A:1172:GLU:N	2.53	0.41
1:A:1170:GLU:OE2	1:A:1195:ASN:OD1	2.39	0.41
1:A:1209:LYS:HG2	1:A:1230:THR:HG23	2.03	0.41
1:A:1368:TYR:HD1	1:A:1368:TYR:O	2.03	0.41
1:A:1609:LYS:C	1:A:1611:ASP:N	2.75	0.41
1:B:1082:VAL:C	1:B:1084:VAL:H	2.29	0.41
1:B:1333:ARG:O	1:B:1334:GLU:C	2.62	0.41
1:B:1381:HIS:N	1:B:1382:PRO:CD	2.82	0.41
1:B:1401:VAL:O	1:B:1401:VAL:HG12	2.21	0.41
1:B:1469:ASN:ND2	1:B:1469:ASN:O	2.48	0.41
1:B:1520:ARG:H	1:B:1520:ARG:HD2	1.85	0.41
1:B:1530:LYS:C	1:B:1532:SER:N	2.78	0.41
1:C:1206:TYR:CD1	1:C:1226:ARG:O	2.74	0.41
1:C:1303:LEU:HD23	1:C:1303:LEU:H	1.84	0.41
1:C:1336:LEU:C	1:C:1338:LEU:N	2.76	0.41
1:C:1350:ARG:C	1:C:1354:GLN:HB3	2.45	0.41
2:E:98:GLU:HA	2:E:98:GLU:OE1	2.21	0.41
1:A:1161:ARG:HD3	1:A:1165:ARG:HD3	2.02	0.41
1:A:1378:MET:SD	1:A:1391:PHE:HD2	2.44	0.41
1:A:1521:TRP:CH2	1:A:1525:VAL:HG11	2.56	0.41
1:B:1161:ARG:HD3	1:B:1165:ARG:HD3	2.02	0.41
1:B:1194:ASN:HB2	1:B:1195:ASN:H	1.48	0.41
1:C:1104:GLU:CB	1:C:1108:TRP:HZ2	2.22	0.41
1:C:1167:SER:O	1:C:1172:GLU:N	2.53	0.41
1:C:1424:MET:O	1:C:1427:SER:OG	2.31	0.41
1:C:1530:LYS:C	1:C:1532:SER:N	2.78	0.41
1:C:1621:LYS:O	1:C:1622:GLU:C	2.64	0.41
2:E:189:UNK:N	2:E:194:UNK:CB	2.83	0.41
2:F:114:GLN:O	2:F:115:GLU:C	2.63	0.41
2:F:134:ASP:HA	2:F:137:GLU:OE1	2.21	0.41
1:A:1113:LYS:CB	1:A:1139:GLU:OE2	2.65	0.41
1:A:1161:ARG:O	1:A:1165:ARG:HB3	2.19	0.41
1:A:1274:LEU:C	1:A:1277:VAL:CG2	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1333:ARG:O	1:A:1334:GLU:C	2.62	0.41
1:A:1352:ALA:C	1:A:1354:GLN:N	2.76	0.41
1:A:1382:PRO:O	1:A:1384:ASP:N	2.54	0.41
1:B:1161:ARG:O	1:B:1165:ARG:HB3	2.19	0.41
1:B:1264:LYS:HZ1	1:B:1268:LEU:HD13	1.84	0.41
1:B:1447:LEU:C	1:B:1449:LYS:H	2.29	0.41
1:B:1467:LEU:HG	1:B:1471:PHE:HE2	1.81	0.41
1:B:1516:LYS:HD3	1:B:1523:GLN:CD	2.46	0.41
1:B:1609:LYS:C	1:B:1611:ASP:N	2.75	0.41
1:C:1078:ASN:HB2	1:C:1101:ARG:HB2	2.03	0.41
1:C:1082:VAL:C	1:C:1084:VAL:H	2.29	0.41
1:C:1326:LYS:C	1:C:1327:PHE:CD1	2.94	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:1144:ALA:HB3	1:A:1153:LEU:HD13	2.02	0.41
1:A:1206:TYR:CD1	1:A:1226:ARG:O	2.74	0.41
1:A:1236:GLU:C	1:A:1238:GLN:N	2.78	0.41
1:A:1358:TRP:CZ3	1:A:1381:HIS:CG	3.06	0.41
1:A:1427:SER:HB2	1:A:1428:PRO:HD2	1.85	0.41
1:A:1449:LYS:O	1:A:1453:ARG:NH1	2.54	0.41
1:A:1456:GLN:NE2	1:A:1467:LEU:CD2	2.84	0.41
1:A:1601:GLN:HA	1:A:1604:LYS:CD	2.51	0.41
1:A:1606:TYR:C	1:A:1608:THR:H	2.27	0.41
1:A:1625:GLN:OE1	1:B:1617:GLU:OE2	2.39	0.41
1:B:1144:ALA:HB3	1:B:1153:LEU:HD13	2.02	0.41
1:B:1148:GLY:HA3	1:B:1150:TRP:CZ3	2.42	0.41
1:B:1170:GLU:OE2	1:B:1195:ASN:OD1	2.38	0.41
1:B:1209:LYS:HD3	1:B:1231:LEU:HB3	2.03	0.41
1:B:1326:LYS:C	1:B:1327:PHE:CD1	2.94	0.41
1:B:1342:ARG:O	1:B:1343:VAL:HB	2.21	0.41
1:B:1379:MET:CE	1:B:1406:ARG:HD3	2.51	0.41
1:C:1082:VAL:HB	1:C:1098:PHE:O	2.19	0.41
1:C:1086:ILE:HG22	1:C:1087:GLU:N	2.36	0.41
1:C:1318:THR:HG22	1:C:1347:LYS:NZ	2.35	0.41
1:C:1379:MET:SD	1:C:1403:LEU:HD21	2.61	0.41
1:C:1379:MET:C	1:C:1380:ASN:HD22	2.28	0.41
1:C:1420:ASN:HA	1:C:1423:LEU:CD1	2.51	0.41
1:C:1471:PHE:HD1	1:C:1476:ASP:HB3	1.85	0.41
1:C:1474:GLU:O	1:C:1475:GLU:HB2	2.21	0.41
1:C:1496:ALA:CB	1:C:1515:PHE:CZ	3.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1521:TRP:CZ3	1:C:1522:LYS:CD	3.01	0.41
1:C:1621:LYS:HB3	1:C:1625:GLN:NE2	2.35	0.41
2:D:103:ARG:HA	2:D:106:ARG:HB2	2.03	0.41
2:E:120:SER:O	2:E:124:GLU:N	2.52	0.41
2:F:134:ASP:HA	2:F:137:GLU:HB2	2.03	0.41
2:F:167:ASP:O	2:F:168:ILE:C	2.63	0.41
1:A:1327:PHE:HE1	2:F:104:LYS:HA	1.79	0.41
1:A:1401:VAL:O	1:A:1401:VAL:HG12	2.21	0.41
1:A:1621:LYS:O	1:A:1622:GLU:C	2.64	0.41
1:B:1078:ASN:HB2	1:B:1101:ARG:HB2	2.03	0.41
1:B:1170:GLU:OE2	1:B:1195:ASN:C	2.54	0.41
1:B:1296:PHE:HB2	1:B:1297:GLU:H	1.53	0.41
1:B:1346:PRO:HG2	1:B:1347:LYS:H	1.86	0.41
1:B:1379:MET:C	1:B:1380:ASN:HD22	2.29	0.41
1:B:1471:PHE:HD1	1:B:1476:ASP:HB3	1.85	0.41
1:B:1472:ILE:CG2	1:B:1498:ARG:HH21	2.33	0.41
1:B:1572:THR:CG2	1:B:1578:ARG:HB3	2.51	0.41
1:C:1144:ALA:HB3	1:C:1153:LEU:HD13	2.02	0.41
1:C:1316:MET:HB2	1:C:1317:PHE:HD2	1.86	0.41
1:C:1342:ARG:O	1:C:1343:VAL:HB	2.21	0.41
1:C:1401:VAL:O	1:C:1401:VAL:HG12	2.21	0.41
1:C:1449:LYS:O	1:C:1453:ARG:NH1	2.54	0.41
1:C:1533:LEU:CD2	1:C:1535:LYS:HB2	2.50	0.41
1:C:1548:GLU:CD	1:C:1548:GLU:N	2.75	0.41
2:D:95:LEU:O	2:D:99:PRO:HD2	2.20	0.41
2:E:91:GLN:OE1	2:E:92:ALA:HA	2.21	0.41
1:A:1085:LEU:HD23	1:A:1085:LEU:N	2.12	0.40
1:A:1171:THR:OG1	1:A:1196:ALA:CB	2.66	0.40
1:A:1218:TYR:CD2	1:A:1227:LEU:HD12	2.57	0.40
1:A:1346:PRO:HG2	1:A:1347:LYS:H	1.86	0.40
1:A:1469:ASN:ND2	1:A:1469:ASN:C	2.78	0.40
1:A:1502:HIS:O	1:A:1508:ARG:HD2	2.21	0.40
1:A:1520:ARG:H	1:A:1520:ARG:HD2	1.85	0.40
1:B:1335:HIS:O	1:B:1338:LEU:HB2	2.21	0.40
1:B:1376:ILE:C	1:B:1378:MET:H	2.29	0.40
1:B:1378:MET:SD	1:B:1391:PHE:HD2	2.44	0.40
1:B:1449:LYS:O	1:B:1453:ARG:NH1	2.54	0.40
1:B:1456:GLN:O	1:B:1456:GLN:HG3	2.05	0.40
1:C:1332:MET:HB3	1:C:1332:MET:HE3	1.76	0.40
1:C:1401:VAL:HA	1:C:1404:TYR:HD1	1.82	0.40
1:C:1450:PRO:C	1:C:1452:LEU:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:126:GLU:HG3	2:D:130:LYS:CE	2.52	0.40
2:E:178:UNK:O	2:E:180:UNK:N	2.54	0.40
1:A:1086:ILE:HG22	1:A:1087:GLU:N	2.36	0.40
1:A:1157:LEU:O	1:A:1158:GLN:C	2.65	0.40
1:A:1167:SER:OG	1:A:1168:TYR:N	2.42	0.40
1:A:1232:VAL:O	1:A:1233:HIS:HB3	2.21	0.40
1:A:1234:LEU:CG	1:A:1235:GLY:N	2.74	0.40
1:A:1318:THR:HG22	1:A:1347:LYS:NZ	2.36	0.40
1:A:1381:HIS:N	1:A:1382:PRO:CD	2.82	0.40
1:A:1412:LEU:O	1:A:1413:GLU:C	2.65	0.40
1:A:1466:SER:O	1:A:1470:LEU:N	2.52	0.40
1:B:1167:SER:HA	1:B:1171:THR:N	2.29	0.40
1:B:1218:TYR:CD2	1:B:1227:LEU:HD12	2.57	0.40
1:B:1333:ARG:CB	1:B:1360:GLU:HG2	2.46	0.40
1:B:1379:MET:SD	1:B:1403:LEU:HD21	2.61	0.40
1:B:1528:CYS:O	1:B:1529:LYS:C	2.64	0.40
1:B:1539:GLN:NE2	2:D:179:UNK:CB	2.84	0.40
1:B:1621:LYS:HB3	1:B:1625:GLN:NE2	2.35	0.40
1:C:1104:GLU:HB2	1:C:1108:TRP:HH2	1.76	0.40
1:C:1170:GLU:OE2	1:C:1195:ASN:OD1	2.38	0.40
1:C:1335:HIS:O	1:C:1338:LEU:HB2	2.21	0.40
1:C:1358:TRP:CZ3	1:C:1381:HIS:CG	3.06	0.40
2:D:151:ILE:CG1	2:D:152:ASN:N	2.84	0.40
1:A:1236:GLU:HB3	1:A:1237:TYR:H	1.78	0.40
1:A:1335:HIS:O	1:A:1338:LEU:HB2	2.21	0.40
1:A:1379:MET:SD	1:A:1403:LEU:HD21	2.61	0.40
1:A:1467:LEU:HA	1:A:1470:LEU:HD12	2.04	0.40
1:B:1113:LYS:CB	1:B:1139:GLU:OE2	2.65	0.40
1:B:1137:TYR:HD2	1:B:1138:MET:H	1.69	0.40
1:B:1182:ARG:HA	1:B:1185:GLU:HB3	2.03	0.40
1:B:1187:GLU:O	1:B:1191:ASN:ND2	2.52	0.40
1:B:1206:TYR:CD1	1:B:1226:ARG:O	2.74	0.40
1:B:1243:GLY:C	1:B:1245:ARG:N	2.79	0.40
1:B:1412:LEU:O	1:B:1413:GLU:C	2.65	0.40
1:B:1502:HIS:O	1:B:1508:ARG:HD2	2.21	0.40
1:B:1578:ARG:NH2	1:B:1583:LEU:HD23	2.28	0.40
1:C:1105:PRO:O	1:C:1106:ALA:HB3	2.21	0.40
1:C:1137:TYR:HD2	1:C:1138:MET:H	1.69	0.40
1:C:1164:ALA:O	1:C:1166:GLU:HB3	2.22	0.40
1:C:1177:LEU:O	1:C:1178:ALA:C	2.63	0.40
1:C:1243:GLY:C	1:C:1245:ARG:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1444:GLN:NE2	2:E:130:LYS:HD2	2.36	0.40
1:C:1502:HIS:O	1:C:1508:ARG:HD2	2.21	0.40
1:C:1516:LYS:HD3	1:C:1523:GLN:CD	2.46	0.40
1:C:1601:GLN:HA	1:C:1604:LYS:CD	2.51	0.40
1:C:1601:GLN:N	1:C:1601:GLN:CD	2.80	0.40
2:F:91:GLN:HE22	2:F:94:ARG:HG2	1.85	0.40
1:A:1161:ARG:HE	1:A:1165:ARG:HD2	1.78	0.40
1:A:1508:ARG:CZ	1:A:1530:LYS:HD3	2.49	0.40
1:A:1528:CYS:O	1:A:1529:LYS:C	2.65	0.40
1:A:1538:MET:O	1:A:1570:LEU:HD13	2.22	0.40
1:A:1601:GLN:N	1:A:1601:GLN:CD	2.80	0.40
1:B:1166:GLU:OE1	1:B:1168:TYR:CG	2.74	0.40
1:B:1316:MET:HB2	1:B:1317:PHE:HD2	1.87	0.40
1:B:1352:ALA:C	1:B:1354:GLN:N	2.76	0.40
1:C:1116:LEU:CD1	1:C:1143:ALA:HB1	2.51	0.40
1:C:1378:MET:SD	1:C:1391:PHE:HD2	2.44	0.40
1:C:1403:LEU:HD13	1:C:1407:ALA:HB2	2.04	0.40
1:C:1538:MET:O	1:C:1570:LEU:HD13	2.22	0.40
1:C:1576:LEU:HD12	1:C:1576:LEU:HA	1.78	0.40
2:D:185:UNK:CA	2:D:189:UNK:O	2.54	0.40
2:D:186:UNK:C	2:D:188:UNK:H	2.34	0.40
2:F:146:VAL:C	2:F:149:ASN:HB2	2.46	0.40
1:A:1279:HIS:CB	1:A:1282:GLU:CB	2.86	0.40
1:A:1321:ALA:C	1:A:1323:LEU:N	2.76	0.40
1:A:1409:GLN:C	1:A:1413:GLU:CB	2.92	0.40
1:A:1448:VAL:O	1:A:1449:LYS:C	2.63	0.40
1:A:1516:LYS:HD3	1:A:1523:GLN:CD	2.46	0.40
1:A:1578:ARG:NH2	1:A:1583:LEU:HD23	2.27	0.40
1:B:1086:ILE:HG22	1:B:1087:GLU:N	2.36	0.40
1:B:1177:LEU:O	1:B:1178:ALA:C	2.64	0.40
1:B:1201:VAL:O	1:B:1205:CYS:SG	2.80	0.40
1:B:1412:LEU:HA	1:B:1419:LEU:HD13	1.99	0.40
1:B:1567:GLY:O	1:B:1569:CYS:N	2.55	0.40
1:B:1601:GLN:N	1:B:1601:GLN:CD	2.80	0.40
1:C:1157:LEU:HD13	1:C:1173:LEU:CA	2.51	0.40
1:C:1161:ARG:HE	1:C:1170:GLU:CB	2.27	0.40
1:C:1376:ILE:C	1:C:1378:MET:H	2.29	0.40
1:C:1382:PRO:O	1:C:1384:ASP:N	2.54	0.40
1:C:1453:ARG:HG2	1:C:1453:ARG:NH1	2.37	0.40
1:C:1504:LEU:CD2	2:E:149:ASN:OD1	2.70	0.40
2:D:109:GLN:O	2:D:112:ARG:CB	2.66	0.40

All (70) 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:1198:ILE:N	2:F:103:ARG:NH1[5_545]	0.57	1.63
1:B:1199:GLN:N	2:F:103:ARG:NH2[5_545]	0.64	1.56
1:A:1097:GLU:OE1	1:C:1094:ARG:CG[8_465]	0.90	1.30
1:A:1097:GLU:CD	1:C:1094:ARG:CG[8_465]	0.92	1.28
1:B:1198:ILE:CD1	2:F:103:ARG:CB[5_545]	0.98	1.22
1:B:1198:ILE:CG1	2:F:103:ARG:CD[5_545]	1.03	1.17
1:A:1101:ARG:NH2	1:C:1101:ARG:CG[8_465]	1.13	1.07
1:B:1194:ASN:CB	2:F:99:PRO:CG[5_545]	1.14	1.06
1:B:1197:HIS:C	2:F:103:ARG:NH1[5_545]	1.19	1.01
1:B:1194:ASN:CA	2:F:99:PRO:CG[5_545]	1.23	0.97
1:B:1220:ASN:CB	2:F:100:GLU:OE1[5_545]	1.30	0.90
1:A:1101:ARG:CZ	1:C:1101:ARG:CG[8_465]	1.35	0.85
1:B:1199:GLN:N	2:F:103:ARG:CZ[5_545]	1.39	0.81
1:A:1097:GLU:OE1	1:C:1094:ARG:CB[8_465]	1.40	0.80
1:A:1101:ARG:NE	1:C:1101:ARG:NE[8_465]	1.45	0.75
1:B:1199:GLN:CD	2:F:107:GLU:OE2[5_545]	1.48	0.72
1:B:1199:GLN:NE2	2:F:107:GLU:OE1[5_545]	1.48	0.72
1:B:1198:ILE:CA	2:F:103:ARG:NH1[5_545]	1.51	0.69
1:B:1199:GLN:OE1	2:F:107:GLU:OE2[5_545]	1.53	0.67
1:B:1199:GLN:CA	2:F:103:ARG:NH2[5_545]	1.53	0.67
1:B:1199:GLN:NE2	2:F:107:GLU:CD[5_545]	1.56	0.64
1:B:1220:ASN:CG	2:F:100:GLU:OE1[5_545]	1.56	0.64
1:C:1304:GLU:O	1:C:1338:LEU:CA[7_645]	1.56	0.64
1:B:1199:GLN:NE2	2:F:107:GLU:OE2[5_545]	1.58	0.62
1:B:1198:ILE:CD1	2:F:103:ARG:CG[5_545]	1.68	0.52
1:B:1198:ILE:N	2:F:103:ARG:CZ[5_545]	1.69	0.51
1:B:1198:ILE:C	2:F:103:ARG:CZ[5_545]	1.72	0.48
1:B:1194:ASN:CA	2:F:99:PRO:CB[5_545]	1.78	0.42
1:A:1097:GLU:OE1	1:C:1094:ARG:CA[8_465]	1.84	0.36
1:A:1101:ARG:CZ	1:C:1101:ARG:CB[8_465]	1.84	0.36
1:C:1304:GLU:O	1:C:1338:LEU:N[7_645]	1.84	0.36
1:B:1198:ILE:CA	2:F:103:ARG:CZ[5_545]	1.85	0.35
1:A:1097:GLU:OE2	1:C:1094:ARG:CG[8_465]	1.86	0.34
1:C:1304:GLU:O	1:C:1338:LEU:CB[7_645]	1.86	0.34
1:B:1088:HIS:O	1:B:1094:ARG:NE[8_556]	1.88	0.32
1:B:1198:ILE:CG1	2:F:103:ARG:CG[5_545]	1.89	0.31
1:B:1194:ASN:CB	2:F:99:PRO:CD[5_545]	1.90	0.30
1:B:1198:ILE:C	2:F:103:ARG:NH2[5_545]	1.90	0.30
1:A:1101:ARG:NH1	1:C:1101:ARG:CB[8_465]	1.91	0.29
1:A:1097:GLU:CD	1:C:1094:ARG:CD[8_465]	1.93	0.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1304:GLU:O	1:C:1338:LEU:CG[7_645]	1.93	0.27
1:C:1305:ALA:CB	1:C:1337:GLU:O[7_645]	1.95	0.25
1:A:1093:ASP:OD2	1:C:1094:ARG:NH1[8_465]	1.96	0.24
1:B:1094:ARG:NH2	1:B:1094:ARG:NH2[8_556]	1.96	0.24
1:A:1097:GLU:CG	1:C:1094:ARG:CG[8_465]	1.97	0.23
1:B:1197:HIS:O	2:F:103:ARG:NH1[5_545]	1.97	0.23
1:A:1101:ARG:NH2	1:C:1101:ARG:CD[8_465]	1.98	0.22
1:B:1194:ASN:N	2:F:99:PRO:CG[5_545]	2.01	0.19
1:B:1198:ILE:CB	2:F:103:ARG:CD[5_545]	2.03	0.17
1:A:1094:ARG:CG	1:C:1097:GLU:OE1[8_465]	2.04	0.16
1:A:1093:ASP:O	1:C:1094:ARG:CD[8_465]	2.05	0.15
1:A:1097:GLU:CG	1:C:1094:ARG:CD[8_465]	2.06	0.14
1:A:1101:ARG:NH1	1:C:1101:ARG:N[8_465]	2.07	0.13
1:A:1094:ARG:CD	1:C:1097:GLU:OE1[8_465]	2.08	0.12
1:B:1088:HIS:O	1:B:1094:ARG:CZ[8_556]	2.08	0.12
1:B:1194:ASN:CG	2:F:99:PRO:CG[5_545]	2.08	0.12
1:C:1303:LEU:O	1:C:1338:LEU:CD2[7_645]	2.08	0.12
1:B:1199:GLN:CB	2:F:103:ARG:NH2[5_545]	2.09	0.11
1:B:1220:ASN:ND2	2:F:100:GLU:OE1[5_545]	2.10	0.10
1:B:1198:ILE:CD1	2:F:103:ARG:CD[5_545]	2.12	0.08
1:A:1101:ARG:NE	1:C:1101:ARG:CD[8_465]	2.13	0.07
1:B:1199:GLN:CD	2:F:107:GLU:CD[5_545]	2.13	0.07
1:A:1101:ARG:NE	1:C:1101:ARG:CG[8_465]	2.15	0.05
1:A:1265:GLU:OE2	1:B:1215:LYS:CE[5_555]	2.16	0.04
1:B:1088:HIS:O	1:B:1094:ARG:CD[8_556]	2.17	0.03
1:B:1194:ASN:ND2	2:F:95:LEU:O[5_545]	2.17	0.03
1:A:1093:ASP:CB	1:C:1094:ARG:NH1[8_465]	2.18	0.02
1:B:1198:ILE:CG1	2:F:103:ARG:CB[5_545]	2.18	0.02
1:C:1304:GLU:C	1:C:1338:LEU:CD2[7_645]	2.18	0.02
1:C:1304:GLU:OE2	1:C:1334:GLU:OE2[7_645]	2.19	0.01

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	552/624 (88%)	332 (60%)	164 (30%)	56 (10%)	0	7
1	B	552/624 (88%)	332 (60%)	166 (30%)	54 (10%)	0	7
1	C	552/624 (88%)	332 (60%)	166 (30%)	54 (10%)	0	7
2	D	77/205 (38%)	50 (65%)	16 (21%)	11 (14%)	0	3
2	E	66/205 (32%)	35 (53%)	21 (32%)	10 (15%)	0	3
2	F	76/205 (37%)	42 (55%)	20 (26%)	14 (18%)	0	2
All	All	1875/2487 (75%)	1123 (60%)	553 (30%)	199 (11%)	0	6

All (199) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1086	ILE
1	A	1122	LYS
1	A	1193	PRO
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	1597	PRO
1	B	1086	ILE
1	B	1122	LYS
1	B	1193	PRO
1	B	1231	LEU
1	B	1251	ARG
1	B	1278	VAL
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	1597	PRO

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Mol	Chain	Res	Type
1	C	1086	ILE
1	C	1122	LYS
1	C	1193	PRO
1	C	1231	LEU
1	C	1251	ARG
1	C	1278	VAL
1	C	1283	LEU
1	C	1297	GLU
1	C	1327	PHE
1	C	1329	PRO
1	C	1330	GLN
1	C	1427	SER
1	C	1493	ILE
1	C	1547	THR
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	1134	PRO
1	A	1136	SER
1	A	1145	ASN
1	A	1151	GLU
1	A	1296	PHE
1	A	1358	TRP
1	A	1382	PRO
1	A	1383	THR
1	A	1416	PRO
1	A	1517	GLY
1	A	1585	THR
1	B	1093	ASP
1	B	1134	PRO
1	B	1136	SER
1	B	1145	ASN
1	B	1296	PHE
1	B	1358	TRP
1	B	1382	PRO

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Mol	Chain	Res	Type
1	B	1383	THR
1	B	1416	PRO
1	B	1505	ILE
1	B	1517	GLY
1	B	1585	THR
1	C	1093	ASP
1	C	1134	PRO
1	C	1136	SER
1	C	1145	ASN
1	C	1151	GLU
1	C	1296	PHE
1	C	1358	TRP
1	C	1382	PRO
1	C	1383	THR
1	C	1416	PRO
1	C	1517	GLY
1	C	1585	THR
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	1165	ARG
1	A	1216	LEU
1	A	1236	GLU
1	A	1254	LYS
1	A	1345	ILE
1	A	1388	GLU
1	A	1408	ILE
1	A	1432	HIS
1	A	1505	ILE
1	A	1568	ALA
1	A	1596	MET
1	B	1151	GLU
1	B	1165	ARG
1	B	1216	LEU
1	B	1236	GLU
1	B	1254	LYS
1	B	1345	ILE
1	B	1388	GLU

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Mol	Chain	Res	Type
1	B	1408	ILE
1	B	1432	HIS
1	B	1568	ALA
1	B	1596	MET
1	C	1165	ARG
1	C	1216	LEU
1	C	1236	GLU
1	C	1254	LYS
1	C	1345	ILE
1	C	1388	GLU
1	C	1408	ILE
1	C	1432	HIS
1	C	1505	ILE
1	C	1568	ALA
1	C	1596	MET
2	D	95	LEU
2	D	98	GLU
2	E	107	GLU
2	F	101	SER
2	F	162	GLN
1	A	1078	ASN
1	A	1104	GLU
1	A	1196	ALA
1	A	1221	VAL
1	A	1259	ALA
1	A	1264	LYS
1	A	1518	ASN
1	A	1548	GLU
1	A	1591	ILE
1	B	1078	ASN
1	B	1104	GLU
1	B	1221	VAL
1	B	1259	ALA
1	B	1264	LYS
1	B	1518	ASN
1	B	1548	GLU
1	B	1591	ILE
1	B	1625	GLN
1	C	1078	ASN
1	C	1104	GLU
1	C	1221	VAL
1	C	1259	ALA

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Mol	Chain	Res	Type
1	C	1264	LYS
1	C	1518	ASN
1	C	1548	GLU
1	C	1591	ILE
2	E	94	ARG
2	F	103	ARG
1	A	1080	SER
1	A	1316	MET
1	A	1625	GLN
1	B	1080	SER
1	B	1316	MET
1	C	1080	SER
1	C	1316	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	1141	VAL
1	A	1294	GLY
1	A	1544	SER
1	B	1141	VAL
1	B	1294	GLY
1	C	1141	VAL
1	C	1294	GLY
2	D	149	ASN
2	E	149	ASN
2	F	164	PRO
1	A	1525	VAL
1	B	1525	VAL
1	C	1525	VAL
2	F	99	PRO
1	A	1343	VAL
1	A	1579	PRO
1	B	1343	VAL
1	B	1579	PRO
1	C	1343	VAL
1	C	1579	PRO

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Mol	Chain	Res	Type
2	D	99	PRO

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	486/541 (90%)	419 (86%)	67 (14%)	3	14
1	B	486/541 (90%)	419 (86%)	67 (14%)	3	14
1	C	486/541 (90%)	419 (86%)	67 (14%)	3	14
2	D	62/128 (48%)	44 (71%)	18 (29%)	0	2
2	E	61/128 (48%)	42 (69%)	19 (31%)	0	2
2	F	62/128 (48%)	41 (66%)	21 (34%)	0	1
All	All	1643/2007 (82%)	1384 (84%)	259 (16%)	2	11

All (259) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1096	TYR
1	A	1102	CYS
1	A	1104	GLU
1	A	1108	TRP
1	A	1111	LEU
1	A	1126	ASP
1	A	1136	SER
1	A	1154	VAL
1	A	1161	ARG
1	A	1162	LYS
1	A	1163	LYS
1	A	1165	ARG
1	A	1166	GLU
1	A	1168	TYR
1	A	1172	GLU
1	A	1191	ASN
1	A	1194	ASN

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Mol	Chain	Res	Type
1	A	1198	ILE
1	A	1212	ASP
1	A	1217	LEU
1	A	1221	VAL
1	A	1226	ARG
1	A	1227	LEU
1	A	1245	ARG
1	A	1261	VAL
1	A	1262	ASP
1	A	1274	LEU
1	A	1290	TYR
1	A	1295	TYR
1	A	1296	PHE
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	1505	ILE
1	A	1526	GLU
1	A	1527	LEU
1	A	1536	ASP
1	A	1540	TYR
1	A	1549	LEU
1	A	1574	TYR

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Mol	Chain	Res	Type
1	A	1577	LEU
1	A	1578	ARG
1	A	1592	MET
1	A	1593	ASP
1	A	1597	PRO
1	A	1601	GLN
1	A	1611	ASP
1	A	1620	ARG
1	B	1096	TYR
1	B	1102	CYS
1	B	1104	GLU
1	B	1108	TRP
1	B	1111	LEU
1	B	1126	ASP
1	B	1136	SER
1	B	1154	VAL
1	B	1161	ARG
1	B	1162	LYS
1	B	1163	LYS
1	B	1165	ARG
1	B	1166	GLU
1	B	1168	TYR
1	B	1172	GLU
1	B	1191	ASN
1	B	1194	ASN
1	B	1198	ILE
1	B	1212	ASP
1	B	1217	LEU
1	B	1221	VAL
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	1290	TYR
1	B	1295	TYR
1	B	1296	PHE
1	B	1303	LEU
1	B	1304	GLU
1	B	1317	PHE
1	B	1345	ILE

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Mol	Chain	Res	Type
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	1505	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	1592	MET
1	B	1593	ASP
1	B	1597	PRO
1	B	1601	GLN
1	B	1611	ASP
1	B	1620	ARG
1	C	1096	TYR
1	C	1102	CYS
1	C	1104	GLU
1	C	1108	TRP
1	C	1111	LEU
1	C	1126	ASP
1	C	1136	SER
1	C	1154	VAL
1	C	1161	ARG

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Mol	Chain	Res	Type
1	C	1162	LYS
1	C	1163	LYS
1	C	1165	ARG
1	C	1166	GLU
1	C	1168	TYR
1	C	1172	GLU
1	C	1191	ASN
1	C	1194	ASN
1	C	1198	ILE
1	C	1212	ASP
1	C	1217	LEU
1	C	1221	VAL
1	C	1226	ARG
1	C	1227	LEU
1	C	1245	ARG
1	C	1261	VAL
1	C	1262	ASP
1	C	1274	LEU
1	C	1290	TYR
1	C	1295	TYR
1	C	1296	PHE
1	C	1303	LEU
1	C	1304	GLU
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

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Mol	Chain	Res	Type
1	C	1504	LEU
1	C	1505	ILE
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	1592	MET
1	C	1593	ASP
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
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

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Mol	Chain	Res	Type
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
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 (67) 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	1191	ASN
1	A	1354	GLN

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Mol	Chain	Res	Type
1	A	1356	HIS
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	1103	ASN
1	B	1145	ASN
1	B	1191	ASN
1	B	1354	GLN
1	B	1356	HIS
1	B	1380	ASN
1	B	1381	HIS
1	B	1390	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	1625	GLN
1	B	1630	GLN
1	C	1083	GLN
1	C	1091	ASN
1	C	1103	ASN
1	C	1145	ASN
1	C	1191	ASN
1	C	1354	GLN
1	C	1380	ASN
1	C	1381	HIS

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Mol	Chain	Res	Type
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	1625	GLN
1	C	1630	GLN
2	D	149	ASN
2	D	153	ASN
2	E	149	ASN
2	E	153	ASN
2	F	140	GLN
2	F	142	GLN
2	F	153	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	3
1	B	2
1	C	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	1592:MET	C	1593:ASP	N	1.10
1	B	1592:MET	C	1593:ASP	N	1.10
1	C	1592:MET	C	1593:ASP	N	1.10
1	A	1136:SER	C	1137:TYR	N	1.03
1	B	1136:SER	C	1137:TYR	N	1.03
1	C	1136:SER	C	1137:TYR	N	1.03
1	A	1196:ALA	C	1197:HIS	N	0.84

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	554/624 (88%)	7.36	476 (85%)  	50, 50, 132, 133	0
1	B	554/624 (88%)	5.76	443 (79%)  	50, 50, 132, 133	0
1	C	554/624 (88%)	5.45	415 (74%)  	50, 50, 132, 133	0
2	D	79/205 (38%)	9.14	74 (93%)  	298, 298, 298, 298	0
2	E	68/205 (33%)	6.35	61 (89%)  	314, 314, 314, 314	0
2	F	78/205 (38%)	6.25	69 (88%)  	339, 339, 339, 339	0
All	All	1887/2487 (75%)	6.32	1538 (81%)  	50, 50, 314, 339	0

All (1538) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1459	ASN	49.6
1	B	1503	GLU	47.2
1	A	1195	ASN	45.5
2	D	145	GLN	44.2
1	B	1475	GLU	42.9
1	A	1489	ASN	41.0
1	A	1165	ARG	40.1
1	A	1222	SER	37.2
2	D	142	GLN	35.1
2	D	144	GLU	34.3
1	A	1194	ASN	33.9
2	D	146	VAL	33.1
1	A	1559	GLN	32.2
1	A	1170	GLU	31.6
1	A	1290	TYR	31.0
1	C	1102	CYS	30.7
1	B	1501	LYS	29.5
1	B	1476	ASP	29.5
1	C	1428	PRO	28.2

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Mol	Chain	Res	Type	RSRZ
2	D	131	ALA	27.4
1	B	1504	LEU	26.7
1	A	1319	GLU	26.5
2	D	132	LYS	26.1
1	C	1195	ASN	25.9
1	A	1324	TYR	25.8
2	D	147	GLU	25.6
1	A	1199	GLN	25.3
1	C	1230	THR	25.1
1	C	1457	ASN	25.0
1	A	1193	PRO	24.9
1	B	1078	ASN	24.5
2	F	135	LEU	24.3
1	A	1316	MET	24.3
1	A	1416	PRO	23.7
1	A	1268	LEU	23.6
1	C	1489	ASN	23.6
1	A	1317	PHE	23.5
1	C	1313	HIS	23.4
1	B	1474	GLU	23.1
1	B	1502	HIS	23.1
1	A	1296	PHE	22.8
1	C	1170	GLU	22.8
1	C	1104	GLU	22.7
1	A	1196	ALA	22.5
1	A	1278	VAL	22.4
1	A	1142	GLN	22.3
1	B	1079	THR	22.3
1	B	1622	GLU	22.0
1	B	1196	ALA	21.8
1	A	1457	ASN	21.5
1	B	1473	THR	21.3
1	A	1320	LEU	21.2
1	C	1310	GLU	21.2
1	A	1104	GLU	20.9
1	A	1269	ALA	20.9
1	A	1299	LEU	20.7
1	A	1266	PHE	20.5
1	B	1498	ARG	20.5
1	A	1223	ASN	20.5
1	C	1079	THR	20.4
1	C	1078	ASN	20.3

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Mol	Chain	Res	Type	RSRZ
1	A	1167	SER	20.2
1	C	1128	TYR	20.1
2	D	149	ASN	20.1
1	C	1397	LYS	20.0
1	C	1133	ASP	20.0
1	A	1192	GLY	20.0
1	A	1093	ASP	19.8
1	B	1443	LYS	19.6
1	A	1295	TYR	19.6
2	F	131	ALA	19.6
2	E	131	ALA	19.0
1	A	1488	ASP	18.8
2	F	109	GLN	18.8
2	D	134	ASP	18.7
1	B	1625	GLN	18.7
2	D	138	TRP	18.6
1	C	1314	MET	18.3
1	A	1078	ASN	18.3
1	A	1102	CYS	18.1
1	C	1100	GLU	18.1
1	C	1354	GLN	18.1
1	A	1315	GLY	18.0
1	A	1151	GLU	18.0
1	A	1146	THR	17.9
1	A	1382	PRO	17.9
1	C	1206	TYR	17.7
1	A	1232	VAL	17.7
1	A	1168	TYR	17.7
1	A	1197	HIS	17.3
1	A	1307	LEU	17.2
1	A	1212	ASP	17.2
1	B	1572	THR	17.2
2	D	128	ARG	17.2
2	F	156	ALA	17.1
1	C	1229	SER	17.1
1	A	1286	LEU	17.0
1	C	1132	ASP	17.0
1	A	1303	LEU	17.0
1	A	1077	VAL	16.9
1	C	1433	THR	16.9
1	C	1105	PRO	16.9
1	A	1145	ASN	16.8

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Mol	Chain	Res	Type	RSRZ
1	A	1589	HIS	16.7
1	B	1093	ASP	16.6
2	D	148	LYS	16.6
1	A	1079	THR	16.4
1	B	1176	ALA	16.4
1	B	1313	HIS	16.3
1	C	1209	LYS	16.3
1	A	1274	LEU	16.2
1	B	1449	LYS	16.2
1	A	1428	PRO	16.1
1	A	1277	VAL	16.1
1	B	1469	ASN	16.1
1	A	1270	GLN	16.1
1	C	1570	LEU	16.0
1	A	1164	ALA	16.0
2	F	93	ASP	15.9
1	C	1166	GLU	15.9
1	B	1440	SER	15.9
1	C	1429	ARG	15.8
2	D	129	GLU	15.8
1	C	1241	VAL	15.8
1	B	1482	THR	15.6
1	A	1276	ILE	15.6
1	A	1622	GLU	15.5
1	A	1166	GLU	15.3
1	B	1077	VAL	15.2
1	B	1487	TYR	15.1
2	D	111	LYS	15.1
1	A	1363	PHE	15.0
1	A	1458	HIS	15.0
1	C	1624	GLU	15.0
1	B	1179	LYS	15.0
1	A	1339	PHE	14.9
1	B	1580	ASP	14.8
1	C	1311	ARG	14.8
1	C	1547	THR	14.7
1	A	1283	LEU	14.7
1	A	1237	TYR	14.7
1	B	1465	GLU	14.5
1	C	1093	ASP	14.4
1	A	1272	CYS	14.4
1	C	1212	ASP	14.3

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Mol	Chain	Res	Type	RSRZ
1	A	1345	ILE	14.2
1	B	1144	ALA	14.0
1	C	1543	GLU	14.0
1	A	1302	MET	14.0
2	D	108	GLU	14.0
2	D	140	GLN	13.8
1	A	1313	HIS	13.7
1	B	1448	VAL	13.7
1	A	1171	THR	13.6
1	C	1142	GLN	13.5
1	A	1306	ALA	13.5
2	D	159	ALA	13.5
1	C	1542	SER	13.4
1	C	1145	ASN	13.4
1	A	1233	HIS	13.4
1	B	1142	GLN	13.3
1	A	1609	LYS	13.3
1	B	1171	THR	13.3
1	A	1253	TRP	13.2
1	A	1147	SER	13.2
1	B	1464	ASN	13.2
1	A	1092	LEU	13.2
1	A	1461	LYS	13.1
1	A	1398	VAL	13.1
1	C	1528	CYS	13.1
1	A	1613	LEU	13.1
1	A	1280	ALA	13.1
1	B	1496	ALA	13.0
1	C	1103	ASN	13.0
1	A	1080	SER	12.9
1	B	1624	GLU	12.9
1	C	1573	CYS	12.9
1	C	1237	TYR	12.9
1	C	1184	ALA	12.8
1	C	1165	ARG	12.6
1	A	1103	ASN	12.6
1	B	1153	LEU	12.6
1	B	1120	MET	12.6
1	C	1577	LEU	12.6
2	E	127	TRP	12.5
1	C	1550	ALA	12.5
1	A	1429	ARG	12.5

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Mol	Chain	Res	Type	RSRZ
1	B	1214	ALA	12.4
1	A	1101	ARG	12.4
1	A	1344	ASN	12.4
1	A	1523	GLN	12.4
1	C	1280	ALA	12.3
1	B	1385	ALA	12.3
1	B	1147	SER	12.3
1	B	1123	GLU	12.3
1	B	1613	LEU	12.2
1	B	1305	ALA	12.2
1	B	1454	SER	12.2
1	A	1323	LEU	12.2
1	B	1619	LEU	12.2
1	B	1277	VAL	12.2
1	A	1560	GLU	12.2
1	C	1393	ASP	12.1
2	E	135	LEU	12.1
1	B	1097	GLU	12.1
1	B	1573	CYS	12.1
1	C	1131	ALA	12.1
1	B	1442	VAL	12.1
1	B	1483	SER	12.0
1	A	1236	GLU	12.0
1	C	1088	HIS	11.9
1	A	1301	THR	11.9
1	B	1507	PHE	11.9
1	A	1343	VAL	11.8
1	B	1466	SER	11.8
1	A	1476	ASP	11.8
1	A	1128	TYR	11.8
1	A	1561	GLU	11.7
1	C	1101	ARG	11.7
1	C	1312	ALA	11.7
1	B	1342	ARG	11.7
1	A	1321	ALA	11.7
1	A	1254	LYS	11.7
1	B	1539	GLN	11.6
1	A	1271	MET	11.6
2	D	136	GLU	11.6
1	B	1167	SER	11.6
1	A	1240	ALA	11.6
2	D	143	SER	11.6

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Mol	Chain	Res	Type	RSRZ
2	E	109	GLN	11.5
1	B	1623	GLU	11.5
1	A	1535	LYS	11.4
1	C	1580	ASP	11.4
1	A	1460	ASN	11.4
1	C	1077	VAL	11.4
1	A	1322	ILE	11.4
1	A	1347	LYS	11.3
1	B	1242	ASP	11.3
1	A	1335	HIS	11.3
2	E	110	ARG	11.3
2	E	105	TRP	11.3
1	A	1511	ALA	11.3
1	B	1141	VAL	11.2
1	C	1167	SER	11.2
2	E	126	GLU	11.2
1	B	1152	GLU	11.1
1	C	1475	GLU	11.1
1	A	1625	GLN	11.1
1	B	1404	TYR	11.1
1	A	1368	TYR	11.1
1	C	1109	SER	11.1
2	E	99	PRO	11.0
1	B	1392	LYS	11.0
1	A	1300	ILE	11.0
1	B	1500	GLU	11.0
1	A	1617	GLU	10.9
1	C	1414	PHE	10.9
2	E	96	THR	10.9
1	B	1241	VAL	10.9
1	C	1355	ALA	10.9
1	C	1371	TYR	10.9
1	A	1183	LEU	10.9
1	A	1294	GLY	10.9
2	D	114	GLN	10.9
1	B	1341	SER	10.8
1	B	1100	GLU	10.8
1	A	1419	LEU	10.8
2	E	107	GLU	10.7
1	A	1264	LYS	10.7
1	C	1199	GLN	10.7
1	B	1195	ASN	10.7

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Mol	Chain	Res	Type	RSRZ
1	B	1208	GLU	10.6
1	A	1263	GLY	10.6
2	E	145	GLN	10.6
1	C	1357	LEU	10.6
1	C	1360	GLU	10.5
1	B	1159	MET	10.5
2	F	153	ASN	10.5
1	A	1333	ARG	10.5
1	C	1447	LEU	10.5
2	E	116	LEU	10.5
1	A	1275	HIS	10.5
1	A	1624	GLU	10.5
1	C	1245	ARG	10.5
1	C	1516	LYS	10.4
1	B	1314	MET	10.4
1	A	1563	ARG	10.4
1	A	1238	GLN	10.4
1	C	1210	MET	10.4
1	A	1252	THR	10.4
1	A	1318	THR	10.4
1	C	1106	ALA	10.3
1	B	1080	SER	10.3
1	B	1581	VAL	10.3
1	A	1605	GLU	10.3
1	A	1337	GLU	10.3
1	A	1612	LYS	10.3
1	B	1508	ARG	10.2
1	C	1520	ARG	10.2
1	C	1625	GLN	10.2
1	B	1130	LYS	10.2
1	A	1160	ALA	10.2
2	F	106	ARG	10.2
1	C	1617	GLU	10.2
2	F	102	ILE	10.1
2	F	116	LEU	10.1
1	C	1203	ASP	10.1
1	C	1380	ASN	10.1
1	C	1458	HIS	10.1
1	B	1446	PRO	10.0
1	B	1395	ILE	10.0
1	A	1386	TRP	10.0
1	C	1622	GLU	9.9

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Mol	Chain	Res	Type	RSRZ
1	B	1333	ARG	9.9
2	E	97	GLN	9.9
1	B	1304	GLU	9.9
1	B	1506	GLU	9.9
1	A	1539	GLN	9.9
2	D	150	LYS	9.9
1	C	1574	TYR	9.9
1	B	1139	GLU	9.8
1	C	1460	ASN	9.8
1	A	1105	PRO	9.8
1	C	1136	SER	9.8
2	E	132	LYS	9.8
1	A	1279	HIS	9.8
1	B	1197	HIS	9.8
2	D	141	ARG	9.8
1	B	1479	ALA	9.8
1	C	1315	GLY	9.7
2	D	135	LEU	9.7
1	C	1180	THR	9.7
1	C	1477	TYR	9.7
1	A	1512	ALA	9.7
2	D	107	GLU	9.7
1	B	1416	PRO	9.6
1	A	1370	GLU	9.6
2	F	114	GLN	9.6
1	B	1605	GLU	9.6
1	A	1588	ARG	9.6
1	B	1569	CYS	9.6
1	B	1450	PRO	9.6
1	A	1161	ARG	9.6
1	C	1473	THR	9.6
1	C	1135	SER	9.6
1	B	1511	ALA	9.5
1	C	1226	ARG	9.5
1	A	1289	TYR	9.5
1	B	1101	ARG	9.5
1	C	1137	TYR	9.4
1	C	1588	ARG	9.4
1	A	1547	THR	9.4
2	E	108	GLU	9.4
1	A	1340	TRP	9.4
1	C	1124	ALA	9.4

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Mol	Chain	Res	Type	RSRZ
2	E	133	LYS	9.4
1	A	1257	CYS	9.4
1	A	1284	GLU	9.4
1	B	1087	GLU	9.4
1	B	1312	ALA	9.4
1	C	1351	ALA	9.3
1	C	1579	PRO	9.3
1	B	1145	ASN	9.3
1	A	1225	GLY	9.3
1	C	1219	ASN	9.3
1	A	1131	ALA	9.3
1	B	1462	SER	9.3
2	E	128	ARG	9.3
1	A	1431	ASP	9.2
1	B	1494	SER	9.2
1	C	1183	LEU	9.2
1	C	1492	ASN	9.2
2	E	146	VAL	9.2
2	D	125	GLN	9.2
1	A	1138	MET	9.2
1	A	1312	ALA	9.2
2	F	121	LYS	9.2
1	B	1472	ILE	9.2
1	A	1464	ASN	9.1
1	B	1499	LEU	9.1
1	C	1254	LYS	9.1
1	B	1390	GLN	9.1
2	F	143	SER	9.1
1	B	1565	CYS	9.1
1	B	1222	SER	9.0
1	C	1396	THR	9.0
1	B	1278	VAL	9.0
1	A	1267	ARG	9.0
1	B	1102	CYS	9.0
1	A	1247	ALA	9.0
1	C	1155	LYS	9.0
1	A	1261	VAL	9.0
1	A	1629	THR	9.0
2	F	107	GLU	8.9
1	B	1194	ASN	8.9
1	C	1437	ASN	8.9
1	C	1164	ALA	8.9

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Mol	Chain	Res	Type	RSRZ
1	C	1416	PRO	8.9
1	A	1132	ASP	8.9
1	A	1485	ASP	8.9
1	C	1618	SER	8.9
1	A	1273	GLY	8.9
1	A	1117	GLN	8.9
1	C	1168	TYR	8.9
1	A	1531	ASP	8.8
1	B	1146	THR	8.8
1	B	1383	THR	8.8
1	B	1491	ASP	8.8
1	C	1146	THR	8.8
1	A	1190	ILE	8.8
1	A	1176	ALA	8.8
1	A	1585	THR	8.8
2	D	118	ALA	8.8
1	A	1298	GLU	8.8
1	A	1342	ARG	8.8
1	A	1108	TRP	8.7
2	E	149	ASN	8.7
1	C	1187	GLU	8.7
1	C	1236	GLU	8.7
1	B	1180	THR	8.7
1	C	1431	ASP	8.6
1	B	1456	GLN	8.6
2	F	125	GLN	8.6
1	C	1487	TYR	8.6
1	C	1094	ARG	8.6
2	F	105	TRP	8.6
1	A	1381	HIS	8.6
1	C	1610	VAL	8.6
1	A	1255	GLU	8.6
1	B	1337	GLU	8.6
1	C	1529	LYS	8.6
2	D	122	VAL	8.6
2	F	155	ILE	8.6
2	F	138	TRP	8.6
1	B	1626	ALA	8.6
1	B	1345	ILE	8.6
1	B	1615	ALA	8.6
1	C	1519	ASN	8.6
1	B	1547	THR	8.5

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Mol	Chain	Res	Type	RSRZ
1	C	1563	ARG	8.5
1	A	1314	MET	8.5
1	C	1207	ASP	8.5
1	A	1620	ARG	8.5
1	B	1318	THR	8.5
1	A	1520	ARG	8.5
1	B	1588	ARG	8.5
1	A	1623	GLU	8.4
1	B	1534	TYR	8.4
1	B	1478	GLN	8.4
1	B	1362	VAL	8.4
1	C	1398	VAL	8.4
1	C	1356	HIS	8.4
1	C	1623	GLU	8.4
1	A	1399	ALA	8.4
1	B	1172	GLU	8.4
1	C	1252	THR	8.4
2	F	157	ASP	8.3
1	A	1309	LEU	8.3
1	C	1108	TRP	8.3
1	B	1488	ASP	8.3
1	A	1449	LYS	8.3
1	C	1482	THR	8.3
2	F	101	SER	8.3
1	A	1262	ASP	8.3
1	A	1265	GLU	8.3
1	A	1593	ASP	8.2
1	B	1463	VAL	8.2
1	A	1106	ALA	8.2
2	D	99	PRO	8.2
1	A	1155	LYS	8.2
2	F	139	ASN	8.2
2	E	120	SER	8.2
2	E	98	GLU	8.2
1	A	1379	MET	8.2
1	B	1366	ASP	8.2
1	A	1215	LYS	8.1
1	A	1415	LYS	8.1
1	B	1600	ILE	8.1
1	C	1129	ILE	8.1
1	B	1452	LEU	8.1
1	A	1479	ALA	8.1

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Mol	Chain	Res	Type	RSRZ
1	A	1221	VAL	8.1
1	A	1163	LYS	8.1
1	A	1282	GLU	8.1
1	A	1503	GLU	8.1
1	B	1109	SER	8.0
1	C	1381	HIS	8.0
1	B	1227	LEU	8.0
1	A	1109	SER	8.0
1	B	1530	LYS	8.0
1	B	1237	TYR	8.0
1	A	1244	ALA	8.0
1	C	1341	SER	8.0
1	C	1626	ALA	8.0
2	E	117	ASP	8.0
1	C	1613	LEU	8.0
2	F	132	LYS	8.0
1	B	1620	ARG	8.0
1	A	1281	ASP	7.9
1	A	1401	VAL	7.9
1	A	1360	GLU	7.9
1	A	1259	ALA	7.9
1	C	1162	LYS	7.9
1	B	1168	TYR	7.9
2	E	134	ASP	7.9
1	B	1243	GLY	7.9
2	E	124	GLU	7.9
1	A	1120	MET	7.9
1	C	1231	LEU	7.9
1	B	1191	ASN	7.9
1	C	1620	ARG	7.9
1	B	1279	HIS	7.9
2	D	113	LEU	7.9
1	A	1466	SER	7.9
1	B	1272	CYS	7.9
2	D	126	GLU	7.9
1	C	1197	HIS	7.8
1	B	1516	LYS	7.8
2	E	121	LYS	7.8
1	A	1536	ASP	7.8
1	A	1519	ASN	7.8
1	C	1220	ASN	7.8
1	C	1427	SER	7.8

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Mol	Chain	Res	Type	RSRZ
1	C	1560	GLU	7.8
1	A	1113	LYS	7.8
2	D	133	LYS	7.8
1	A	1619	LEU	7.8
1	B	1206	TYR	7.8
1	A	1287	ILE	7.8
1	C	1261	VAL	7.8
1	A	1181	ASN	7.8
1	A	1384	ASP	7.8
1	C	1358	TRP	7.8
1	B	1211	TYR	7.7
2	D	130	LYS	7.7
2	F	150	LYS	7.7
1	A	1515	PHE	7.7
1	A	1228	ALA	7.7
2	D	109	GLN	7.7
1	B	1460	ASN	7.7
1	A	1626	ALA	7.7
1	C	1352	ALA	7.7
1	B	1593	ASP	7.7
1	A	1486	ALA	7.7
1	B	1317	PHE	7.7
1	B	1162	LYS	7.7
1	B	1378	MET	7.7
1	B	1372	ASP	7.6
1	B	1193	PRO	7.6
1	A	1338	LEU	7.6
1	B	1612	LYS	7.6
1	C	1461	LYS	7.5
1	B	1127	SER	7.5
1	B	1480	LEU	7.5
1	B	1617	GLU	7.5
1	A	1203	ASP	7.5
2	D	110	ARG	7.5
1	C	1420	ASN	7.5
2	D	124	GLU	7.5
2	E	142	GLN	7.5
1	B	1471	PHE	7.5
1	A	1372	ASP	7.5
1	C	1532	SER	7.5
1	A	1198	ILE	7.5
1	C	1181	ASN	7.4

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Mol	Chain	Res	Type	RSRZ
1	C	1459	ASN	7.4
1	A	1209	LYS	7.4
1	A	1433	THR	7.4
1	C	1483	SER	7.4
1	B	1154	VAL	7.4
2	F	119	ALA	7.4
1	A	1304	GLU	7.4
1	C	1188	GLU	7.4
1	A	1437	ASN	7.4
1	A	1159	MET	7.3
1	A	1341	SER	7.3
1	B	1579	PRO	7.3
1	A	1248	ASN	7.3
1	B	1106	ALA	7.3
1	B	1614	ASP	7.3
1	A	1542	SER	7.3
2	F	113	LEU	7.3
1	B	1559	GLN	7.3
2	F	133	LYS	7.3
1	A	1359	ALA	7.3
1	A	1367	LYS	7.3
2	E	137	GLU	7.3
1	C	1589	HIS	7.3
1	C	1368	TYR	7.3
1	A	1393	ASP	7.2
1	B	1308	GLY	7.2
1	C	1629	THR	7.2
1	B	1550	ALA	7.2
2	F	97	GLN	7.2
2	F	147	GLU	7.2
2	E	104	LYS	7.2
1	C	1627	THR	7.2
1	B	1334	GLU	7.1
2	F	115	GLU	7.1
1	A	1328	LYS	7.1
2	D	137	GLU	7.1
1	C	1221	VAL	7.1
1	C	1464	ASN	7.1
1	C	1139	GLU	7.1
1	B	1396	THR	7.1
1	A	1137	TYR	7.1
1	A	1129	ILE	7.1

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Mol	Chain	Res	Type	RSRZ
1	A	1513	TYR	7.0
1	C	1562	LYS	7.0
1	A	1615	ALA	7.0
1	A	1285	GLU	7.0
1	B	1126	ASP	7.0
1	B	1453	ARG	7.0
1	C	1117	GLN	7.0
1	C	1289	TYR	7.0
1	B	1560	GLU	7.0
1	C	1151	GLU	7.0
1	A	1421	ASP	7.0
1	C	1202	GLY	6.9
1	A	1162	LYS	6.9
1	B	1163	LYS	6.9
2	F	134	ASP	6.9
1	C	1486	ALA	6.9
1	A	1348	VAL	6.9
1	A	1180	THR	6.9
1	A	1346	PRO	6.9
1	A	1453	ARG	6.9
1	B	1178	ALA	6.9
1	B	1149	ASN	6.9
1	C	1503	GLU	6.9
1	C	1462	SER	6.9
1	B	1117	GLN	6.9
1	B	1119	GLY	6.8
1	A	1200	GLN	6.8
1	B	1223	ASN	6.8
1	A	1521	TRP	6.8
1	C	1389	GLY	6.8
1	A	1551	GLU	6.8
1	C	1365	TYR	6.8
1	A	1383	THR	6.8
1	A	1158	GLN	6.8
1	A	1154	VAL	6.7
2	E	156	ALA	6.7
2	E	101	SER	6.7
1	B	1143	ALA	6.7
1	B	1571	PHE	6.7
1	A	1427	SER	6.7
1	A	1308	GLY	6.7
1	A	1595	ALA	6.7

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Mol	Chain	Res	Type	RSRZ
1	C	1434	ARG	6.7
1	A	1500	GLU	6.7
1	C	1080	SER	6.7
2	D	112	ARG	6.7
1	B	1394	ILE	6.6
2	D	166	ALA	6.6
1	B	1393	ASP	6.6
1	B	1444	GLN	6.6
1	C	1123	GLU	6.6
1	A	1127	SER	6.6
1	B	1603	MET	6.6
2	D	104	LYS	6.6
2	E	106	ARG	6.6
2	F	142	GLN	6.6
1	B	1164	ALA	6.6
1	A	1291	GLN	6.6
1	A	1288	ASN	6.6
1	B	1505	ILE	6.6
1	B	1290	TYR	6.6
1	C	1325	SER	6.6
1	A	1239	ALA	6.5
1	A	1510	ILE	6.5
1	B	1388	GLU	6.5
1	A	1150	TRP	6.5
1	C	1257	CYS	6.5
1	A	1580	ASP	6.5
1	A	1380	ASN	6.5
1	B	1157	LEU	6.5
1	C	1616	SER	6.5
2	E	100	GLU	6.5
1	B	1599	PHE	6.5
1	A	1325	SER	6.5
1	A	1579	PRO	6.5
1	B	1497	GLN	6.5
1	A	1487	TYR	6.5
1	B	1199	GLN	6.5
1	A	1148	GLY	6.4
1	C	1581	VAL	6.4
2	D	93	ASP	6.4
2	D	139	ASN	6.4
1	A	1627	THR	6.4
1	B	1429	ARG	6.4

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Mol	Chain	Res	Type	RSRZ
1	B	1535	LYS	6.4
1	A	1241	VAL	6.4
1	A	1297	GLU	6.4
1	B	1104	GLU	6.4
1	B	1400	ASN	6.4
1	B	1268	LEU	6.4
2	F	117	ASP	6.4
1	A	1184	ALA	6.4
1	A	1608	THR	6.4
1	A	1477	TYR	6.4
1	C	1119	GLY	6.4
1	C	1223	ASN	6.4
1	A	1182	ARG	6.4
1	A	1583	LEU	6.4
1	C	1150	TRP	6.4
1	C	1350	ARG	6.4
1	C	1384	ASP	6.3
1	B	1250	THR	6.3
1	A	1349	LEU	6.3
2	F	110	ARG	6.3
1	A	1224	PHE	6.3
1	A	1573	CYS	6.3
2	F	98	GLU	6.3
1	C	1561	GLU	6.3
1	B	1510	ILE	6.3
2	F	118	ALA	6.3
2	F	96	THR	6.3
1	A	1420	ASN	6.3
1	B	1577	LEU	6.3
2	F	149	ASN	6.3
1	B	1371	TYR	6.3
1	C	1505	ILE	6.3
1	C	1614	ASP	6.3
1	B	1629	THR	6.3
1	C	1418	LEU	6.3
2	E	139	ASN	6.3
1	A	1492	ASN	6.2
1	C	1605	GLU	6.2
1	B	1160	ALA	6.2
1	A	1448	VAL	6.2
1	C	1449	LYS	6.2
1	B	1509	ARG	6.2

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Mol	Chain	Res	Type	RSRZ
1	B	1253	TRP	6.2
1	C	1377	THR	6.2
1	B	1616	SER	6.2
2	E	114	GLN	6.2
1	C	1628	GLU	6.2
1	B	1205	CYS	6.1
1	A	1235	GLY	6.1
1	B	1281	ASP	6.1
2	F	136	GLU	6.1
1	B	1555	GLN	6.1
1	A	1250	THR	6.1
1	C	1593	ASP	6.1
1	B	1273	GLY	6.1
1	A	1124	ALA	6.1
1	A	1456	GLN	6.1
1	B	1405	TYR	6.1
1	A	1543	GLU	6.1
1	A	1256	VAL	6.1
1	C	1545	LYS	6.1
1	B	1389	GLY	6.1
1	B	1618	SER	6.1
1	B	1548	GLU	6.1
2	F	129	GLU	6.1
1	A	1352	ALA	6.0
1	B	1492	ASN	6.0
1	B	1088	HIS	6.0
1	C	1192	GLY	6.0
1	A	1088	HIS	6.0
1	C	1244	ALA	6.0
1	B	1420	ASN	6.0
1	B	1434	ARG	6.0
1	C	1345	ILE	6.0
1	A	1234	LEU	6.0
1	B	1447	LEU	6.0
1	C	1279	HIS	6.0
1	C	1630	GLN	5.9
1	A	1334	GLU	5.9
1	B	1468	ASN	5.9
2	F	120	SER	5.9
1	B	1136	SER	5.9
1	B	1200	GLN	5.9
1	C	1292	ASP	5.9

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Mol	Chain	Res	Type	RSRZ
1	B	1455	VAL	5.9
1	B	1561	GLU	5.9
1	C	1540	TYR	5.9
1	B	1091	ASN	5.9
1	C	1598	TYR	5.9
1	B	1490	PHE	5.9
1	A	1374	ALA	5.9
1	A	1497	GLN	5.9
1	A	1584	GLU	5.9
1	C	1160	ALA	5.9
1	B	1343	VAL	5.8
1	C	1518	ASN	5.8
1	A	1610	VAL	5.8
1	C	1127	SER	5.8
1	A	1576	LEU	5.8
1	B	1628	GLU	5.8
1	C	1225	GLY	5.8
1	A	1630	GLN	5.8
1	C	1600	ILE	5.8
1	C	1548	GLU	5.8
1	A	1550	ALA	5.8
1	B	1150	TRP	5.8
1	C	1159	MET	5.8
1	A	1185	GLU	5.8
1	C	1388	GLU	5.8
1	B	1092	LEU	5.8
1	B	1307	LEU	5.8
1	C	1399	ALA	5.7
1	B	1266	PHE	5.7
1	B	1368	TYR	5.7
1	A	1378	MET	5.7
1	A	1091	ASN	5.7
2	E	103	ARG	5.7
1	A	1365	TYR	5.7
1	C	1171	THR	5.7
1	C	1608	THR	5.7
1	C	1204	ARG	5.7
1	A	1220	ASN	5.7
1	A	1565	CYS	5.7
2	D	121	LYS	5.7
1	A	1218	TYR	5.7
1	C	1421	ASP	5.6

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Mol	Chain	Res	Type	RSRZ
1	C	1604	LYS	5.6
1	C	1615	ALA	5.6
1	C	1612	LYS	5.6
1	C	1585	THR	5.6
1	B	1552	GLU	5.6
1	A	1305	ALA	5.6
1	A	1525	VAL	5.6
1	B	1470	LEU	5.6
1	B	1431	ASP	5.6
1	C	1571	PHE	5.6
1	B	1216	LEU	5.6
2	E	129	GLU	5.6
1	C	1392	LYS	5.6
1	B	1303	LEU	5.6
1	A	1123	GLU	5.6
2	D	92	ALA	5.5
1	A	1249	SER	5.5
1	B	1610	VAL	5.5
1	B	1607	LEU	5.5
1	C	1385	ALA	5.5
1	B	1583	LEU	5.5
1	C	1233	HIS	5.5
1	C	1370	GLU	5.5
1	C	1415	LYS	5.5
1	C	1576	LEU	5.5
1	B	1543	GLU	5.5
1	C	1176	ALA	5.5
1	A	1552	GLU	5.5
1	A	1562	LYS	5.5
2	F	159	ALA	5.5
1	C	1535	LYS	5.5
1	A	1119	GLY	5.5
1	B	1481	ARG	5.5
1	B	1140	VAL	5.4
1	C	1575	ASP	5.4
1	B	1271	MET	5.4
2	E	94	ARG	5.4
1	C	1621	LYS	5.4
2	F	145	GLN	5.4
1	C	1266	PHE	5.4
1	C	1485	ASP	5.4
1	B	1344	ASN	5.4

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Mol	Chain	Res	Type	RSRZ
1	A	1369	GLU	5.4
1	B	1356	HIS	5.4
1	A	1357	LEU	5.4
1	B	1427	SER	5.4
1	B	1451	TYR	5.4
1	B	1441	LYS	5.4
1	A	1534	TYR	5.4
1	B	1105	PRO	5.4
1	B	1161	ARG	5.4
1	B	1299	LEU	5.3
1	A	1351	ALA	5.3
1	A	1336	LEU	5.3
1	A	1462	SER	5.3
1	B	1544	SER	5.3
1	C	1454	SER	5.3
1	C	1317	PHE	5.3
1	A	1188	GLU	5.3
1	B	1520	ARG	5.3
1	A	1606	TYR	5.3
1	B	1355	ALA	5.3
1	B	1374	ALA	5.3
1	B	1316	MET	5.3
1	B	1445	LEU	5.3
1	C	1422	LEU	5.2
1	B	1094	ARG	5.2
1	C	1533	LEU	5.2
1	B	1181	ASN	5.2
1	C	1497	GLN	5.2
1	B	1280	ALA	5.2
1	C	1619	LEU	5.2
1	C	1222	SER	5.2
1	A	1569	CYS	5.2
1	B	1158	GLN	5.2
1	B	1467	LEU	5.2
1	B	1477	TYR	5.2
1	C	1301	THR	5.2
1	C	1450	PRO	5.2
1	B	1546	ASP	5.2
2	D	105	TRP	5.2
1	A	1533	LEU	5.2
1	B	1148	GLY	5.2
1	B	1300	ILE	5.2

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Mol	Chain	Res	Type	RSRZ
1	B	1495	LEU	5.2
2	D	157	ASP	5.2
1	B	1220	ASN	5.1
1	C	1404	TYR	5.1
1	C	1238	GLN	5.1
1	A	1219	ASN	5.1
1	B	1551	GLU	5.1
1	C	1353	GLU	5.1
1	B	1399	ALA	5.1
2	F	160	PHE	5.1
1	A	1207	ASP	5.1
1	B	1238	GLN	5.1
1	B	1401	VAL	5.1
1	C	1322	ILE	5.1
1	B	1418	LEU	5.1
1	C	1182	ARG	5.1
2	E	112	ARG	5.1
2	E	152	ASN	5.1
2	F	104	LYS	5.1
2	F	146	VAL	5.1
1	C	1246	LYS	5.1
2	F	122	VAL	5.1
1	A	1097	GLU	5.1
1	C	1148	GLY	5.1
1	C	1601	GLN	5.1
2	E	143	SER	5.0
1	A	1361	LEU	5.0
1	A	1567	GLY	5.0
1	C	1152	GLU	5.0
1	A	1483	SER	5.0
1	C	1488	ASP	5.0
1	C	1097	GLU	5.0
1	A	1538	MET	5.0
1	B	1414	PHE	5.0
1	C	1566	PHE	5.0
1	A	1364	LEU	5.0
1	C	1099	ALA	5.0
1	A	1628	GLU	5.0
1	A	1373	ASN	5.0
1	C	1154	VAL	5.0
1	C	1361	LEU	5.0
1	C	1318	THR	5.0

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Mol	Chain	Res	Type	RSRZ
1	C	1559	GLN	5.0
1	C	1130	LYS	5.0
1	A	1133	ASP	4.9
1	B	1103	ASN	4.9
1	B	1086	ILE	4.9
1	B	1184	ALA	4.9
1	B	1306	ALA	4.9
1	C	1269	ALA	4.9
1	C	1478	GLN	4.9
1	C	1208	GLU	4.9
1	C	1607	LEU	4.9
1	A	1087	GLU	4.9
2	D	165	ASP	4.9
1	C	1456	GLN	4.9
1	C	1281	ASP	4.9
1	B	1219	ASN	4.9
1	A	1587	TRP	4.9
1	B	1630	GLN	4.9
2	E	123	MET	4.9
1	C	1552	GLU	4.8
2	F	112	ARG	4.8
1	A	1311	ARG	4.8
1	C	1501	LYS	4.8
1	C	1110	GLN	4.8
1	B	1247	ALA	4.8
1	B	1461	LYS	4.8
2	F	161	TYR	4.8
1	C	1158	GLN	4.8
1	B	1276	ILE	4.8
1	B	1627	THR	4.8
1	C	1250	THR	4.8
1	B	1096	TYR	4.8
1	B	1224	PHE	4.8
1	C	1143	ALA	4.8
1	C	1496	ALA	4.8
1	C	1506	GLU	4.8
2	F	126	GLU	4.8
1	C	1597	PRO	4.8
1	C	1366	ASP	4.8
1	B	1113	LYS	4.8
1	B	1340	TRP	4.8
1	C	1121	VAL	4.8

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Mol	Chain	Res	Type	RSRZ
1	B	1437	ASN	4.8
1	C	1194	ASN	4.8
1	B	1188	GLU	4.7
1	A	1616	SER	4.7
1	A	1251	ARG	4.7
1	B	1108	TRP	4.7
1	C	1401	VAL	4.7
1	A	1394	ILE	4.7
1	C	1344	ASN	4.7
2	F	124	GLU	4.7
1	B	1175	PHE	4.7
1	A	1358	TRP	4.7
1	B	1359	ALA	4.7
1	B	1367	LYS	4.7
2	D	106	ARG	4.7
1	B	1421	ASP	4.7
1	B	1611	ASP	4.7
1	C	1413	GLU	4.7
1	B	1155	LYS	4.7
1	C	1446	PRO	4.7
1	B	1302	MET	4.7
1	A	1396	THR	4.7
1	B	1201	VAL	4.7
1	A	1454	SER	4.7
1	A	1443	LYS	4.7
1	B	1422	LEU	4.7
2	E	111	LYS	4.7
1	A	1532	SER	4.7
1	A	1152	GLU	4.7
1	A	1614	ASP	4.7
1	C	1534	TYR	4.6
1	A	1229	SER	4.6
1	C	1436	VAL	4.6
1	A	1578	ARG	4.6
1	C	1546	ASP	4.6
1	B	1433	THR	4.6
2	F	144	GLU	4.6
1	A	1327	PHE	4.6
2	F	127	TRP	4.6
1	B	1562	LYS	4.6
1	B	1249	SER	4.6
1	C	1319	GLU	4.6

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Mol	Chain	Res	Type	RSRZ
1	C	1476	ASP	4.5
1	C	1606	TYR	4.5
2	E	144	GLU	4.5
1	B	1601	GLN	4.5
2	F	99	PRO	4.5
1	C	1578	ARG	4.5
2	D	103	ARG	4.5
1	A	1455	VAL	4.5
1	B	1514	LEU	4.5
2	D	116	LEU	4.5
2	E	141	ARG	4.5
1	C	1163	LYS	4.5
1	A	1243	GLY	4.5
1	C	1386	TRP	4.5
1	A	1331	LYS	4.5
2	F	128	ARG	4.5
2	F	94	ARG	4.5
1	A	1526	GLU	4.5
2	F	92	ALA	4.5
1	A	1450	PRO	4.4
1	A	1438	TYR	4.4
1	B	1267	ARG	4.4
1	C	1611	ASP	4.4
1	B	1609	LYS	4.4
1	C	1551	GLU	4.4
1	C	1609	LYS	4.4
1	A	1397	LYS	4.4
1	C	1333	ARG	4.4
1	B	1386	TRP	4.4
1	C	1405	TYR	4.4
2	D	167	ASP	4.4
1	B	1310	GLU	4.4
1	B	1369	GLU	4.4
1	C	1539	GLN	4.4
2	D	98	GLU	4.4
1	C	1291	GLN	4.4
1	A	1107	VAL	4.3
1	B	1107	VAL	4.3
1	C	1235	GLY	4.3
1	A	1242	ASP	4.3
1	B	1215	LYS	4.3
1	A	1574	TYR	4.3

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Mol	Chain	Res	Type	RSRZ
1	B	1597	PRO	4.3
2	E	136	GLU	4.3
2	E	130	LYS	4.3
1	A	1081	ALA	4.3
1	A	1143	ALA	4.3
1	B	1595	ALA	4.3
1	A	1204	ARG	4.3
1	A	1376	ILE	4.3
1	B	1513	TYR	4.3
1	C	1502	HIS	4.3
1	C	1536	ASP	4.3
1	A	1496	ALA	4.3
1	A	1226	ARG	4.3
1	B	1090	GLY	4.3
2	D	95	LEU	4.3
1	B	1301	THR	4.3
1	B	1169	VAL	4.3
1	B	1248	ASN	4.3
1	A	1577	LEU	4.3
1	A	1208	GLU	4.3
1	B	1528	CYS	4.3
1	C	1472	ILE	4.2
1	C	1369	GLU	4.2
1	A	1522	LYS	4.2
1	C	1134	PRO	4.2
2	E	102	ILE	4.2
1	A	1410	PHE	4.2
1	C	1603	MET	4.2
1	A	1509	ARG	4.2
1	C	1161	ARG	4.2
1	C	1469	ASN	4.2
1	B	1156	TYR	4.2
1	B	1286	LEU	4.2
1	C	1248	ASN	4.2
1	A	1566	PHE	4.2
1	C	1583	LEU	4.2
1	A	1556	TRP	4.2
1	B	1110	GLN	4.2
2	D	169	ILE	4.2
1	B	1402	GLU	4.2
1	B	1532	SER	4.2
1	C	1569	CYS	4.2

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Mol	Chain	Res	Type	RSRZ
1	C	1508	ARG	4.2
1	C	1096	TYR	4.1
1	C	1409	GLN	4.1
1	A	1385	ALA	4.1
2	E	125	GLN	4.1
1	A	1418	LEU	4.1
1	C	1316	MET	4.1
1	A	1621	LYS	4.1
2	E	148	LYS	4.1
2	F	154	ARG	4.1
1	C	1107	VAL	4.1
2	D	117	ASP	4.1
1	C	1526	GLU	4.1
1	B	1364	LEU	4.1
1	A	1413	GLU	4.0
1	B	1116	LEU	4.0
1	B	1254	LYS	4.0
1	C	1390	GLN	4.0
1	A	1206	TYR	4.0
1	A	1491	ASP	4.0
1	C	1378	MET	4.0
1	B	1533	LEU	4.0
1	C	1120	MET	4.0
1	B	1426	LEU	4.0
1	C	1430	LEU	4.0
1	A	1136	SER	4.0
1	A	1100	GLU	4.0
1	A	1187	GLU	4.0
1	B	1526	GLU	4.0
1	B	1122	LYS	4.0
1	B	1387	LYS	4.0
1	C	1268	LEU	3.9
1	C	1549	LEU	3.9
2	E	95	LEU	3.9
1	C	1334	GLU	3.9
2	D	91	GLN	3.9
1	C	1490	PHE	3.9
1	B	1576	LEU	3.9
2	E	147	GLU	3.9
1	B	1275	HIS	3.9
1	B	1129	ILE	3.9
1	B	1578	ARG	3.9

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Mol	Chain	Res	Type	RSRZ
1	C	1138	MET	3.9
1	B	1151	GLU	3.9
1	A	1230	THR	3.9
1	B	1523	GLN	3.9
1	C	1417	LEU	3.9
1	C	1113	LYS	3.8
1	C	1537	ALA	3.8
1	A	1546	ASP	3.8
1	C	1342	ARG	3.8
1	A	1555	GLN	3.8
1	B	1173	LEU	3.8
2	E	153	ASN	3.8
1	C	1253	TRP	3.8
1	A	1211	TYR	3.8
1	B	1384	ASP	3.8
1	B	1489	ASN	3.8
1	A	1371	TYR	3.8
1	B	1132	ASP	3.8
1	C	1285	GLU	3.8
1	A	1191	ASN	3.8
1	A	1581	VAL	3.8
1	A	1210	MET	3.8
2	D	155	ILE	3.8
1	C	1504	LEU	3.8
1	B	1363	PHE	3.7
1	B	1575	ASP	3.7
1	A	1481	ARG	3.7
1	C	1147	SER	3.7
1	B	1608	THR	3.7
1	C	1517	GLY	3.7
1	B	1542	SER	3.7
1	B	1131	ALA	3.7
1	B	1269	ALA	3.7
1	C	1332	MET	3.7
1	C	1081	ALA	3.7
1	A	1094	ARG	3.7
1	C	1443	LYS	3.7
1	C	1544	SER	3.7
1	C	1509	ARG	3.7
1	A	1540	TYR	3.7
1	B	1226	ARG	3.6
1	B	1229	SER	3.6

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Mol	Chain	Res	Type	RSRZ
1	A	1116	LEU	3.6
1	A	1502	HIS	3.6
1	A	1172	GLU	3.6
1	C	1270	GLN	3.6
1	B	1596	MET	3.6
1	A	1469	ASN	3.6
2	D	96	THR	3.6
1	A	1392	LYS	3.6
1	B	1428	PRO	3.6
2	D	123	MET	3.6
1	A	1407	ALA	3.6
1	B	1245	ARG	3.6
2	D	94	ARG	3.6
1	A	1506	GLU	3.6
1	C	1511	ALA	3.6
1	A	1572	THR	3.6
1	B	1230	THR	3.6
1	B	1347	LYS	3.6
1	C	1330	GLN	3.6
1	A	1362	VAL	3.5
1	B	1099	ALA	3.5
1	C	1213	ALA	3.5
1	A	1524	SER	3.5
1	C	1335	HIS	3.5
1	A	1564	GLU	3.5
1	C	1564	GLU	3.5
2	F	130	LYS	3.5
1	A	1596	MET	3.5
2	D	115	GLU	3.5
1	B	1177	LEU	3.5
1	A	1557	PHE	3.5
1	B	1410	PHE	3.5
1	C	1247	ALA	3.5
1	A	1245	ARG	3.5
1	A	1440	SER	3.5
1	B	1373	ASN	3.5
1	A	1387	LYS	3.5
1	B	1621	LYS	3.5
1	A	1423	LEU	3.5
1	B	1485	ASP	3.5
1	C	1115	GLN	3.5
1	A	1231	LEU	3.4

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Mol	Chain	Res	Type	RSRZ
1	A	1139	GLU	3.4
1	A	1389	GLY	3.4
1	A	1130	LYS	3.4
1	B	1084	VAL	3.4
1	B	1536	ASP	3.4
1	A	1083	GLN	3.4
1	B	1338	LEU	3.4
1	B	1457	ASN	3.4
1	C	1306	ALA	3.4
1	C	1595	ALA	3.4
1	C	1211	TYR	3.4
1	A	1135	SER	3.4
1	B	1438	TYR	3.4
1	A	1490	PHE	3.4
2	D	156	ALA	3.4
2	E	150	LYS	3.4
1	B	1138	MET	3.4
1	B	1210	MET	3.4
1	C	1196	ALA	3.4
2	E	140	GLN	3.4
1	B	1602	VAL	3.4
1	C	1525	VAL	3.4
1	B	1112	ALA	3.3
1	C	1343	VAL	3.3
1	C	1479	ALA	3.3
1	B	1098	PHE	3.3
1	A	1201	VAL	3.3
1	A	1598	TYR	3.3
1	C	1349	LEU	3.3
1	C	1558	LEU	3.3
2	D	168	ILE	3.3
1	B	1563	ARG	3.3
1	B	1436	VAL	3.3
1	C	1572	THR	3.3
1	B	1187	GLU	3.3
1	C	1294	GLY	3.3
1	A	1446	PRO	3.3
1	A	1504	LEU	3.3
1	C	1263	GLY	3.3
2	D	160	PHE	3.3
2	D	102	ILE	3.3
2	D	127	TRP	3.3

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Mol	Chain	Res	Type	RSRZ
2	D	153	ASN	3.2
2	F	162	GLN	3.2
1	C	1091	ASN	3.2
1	C	1098	PHE	3.2
1	A	1375	ILE	3.2
1	B	1567	GLY	3.2
1	A	1310	GLU	3.2
1	A	1213	ALA	3.2
1	A	1590	ASN	3.2
1	A	1473	THR	3.2
1	B	1252	THR	3.2
1	C	1083	GLN	3.2
2	F	151	ILE	3.2
1	A	1350	ARG	3.2
1	C	1491	ASP	3.2
1	C	1191	ASN	3.2
1	C	1373	ASN	3.2
1	B	1111	LEU	3.2
1	B	1128	TYR	3.2
1	C	1169	VAL	3.2
1	C	1406	ARG	3.2
1	C	1287	ILE	3.2
1	B	1166	GLU	3.1
2	D	151	ILE	3.1
1	C	1465	GLU	3.1
1	C	1295	TYR	3.1
1	C	1329	PRO	3.1
2	E	118	ALA	3.1
1	B	1339	PHE	3.1
1	A	1156	TYR	3.1
1	A	1568	ALA	3.1
2	D	119	ALA	3.1
1	A	1518	ASN	3.1
1	A	1482	THR	3.1
1	A	1177	LEU	3.1
1	C	1419	LEU	3.1
1	A	1202	GLY	3.1
1	B	1365	TYR	3.1
1	C	1271	MET	3.1
1	B	1589	HIS	3.1
1	B	1545	LYS	3.0
1	C	1282	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
1	B	1349	LEU	3.0
1	A	1544	SER	3.0
1	C	1126	ASP	3.0
1	B	1484	ILE	3.0
1	A	1186	LEU	3.0
1	A	1549	LEU	3.0
1	B	1261	VAL	3.0
1	A	1494	SER	3.0
1	B	1570	LEU	3.0
1	A	1594	PHE	3.0
1	A	1442	VAL	3.0
1	C	1498	ARG	3.0
1	C	1440	SER	3.0
1	B	1225	GLY	3.0
1	A	1430	LEU	2.9
1	B	1346	PRO	2.9
2	D	164	PRO	2.9
1	B	1170	GLU	2.9
1	C	1302	MET	2.9
2	F	140	GLN	2.9
1	B	1529	LYS	2.9
1	B	1566	PHE	2.9
2	D	161	TYR	2.9
2	F	166	ALA	2.9
1	A	1570	LEU	2.9
1	A	1441	LYS	2.9
1	A	1258	PHE	2.9
1	B	1190	ILE	2.9
1	B	1309	LEU	2.9
1	C	1453	ARG	2.9
1	C	1149	ASN	2.9
1	B	1415	LYS	2.9
1	B	1124	ALA	2.9
1	A	1122	LYS	2.9
1	A	1082	VAL	2.9
1	A	1434	ARG	2.9
1	A	1548	GLU	2.9
2	E	113	LEU	2.9
1	B	1351	ALA	2.8
1	C	1112	ALA	2.8
1	A	1400	ASN	2.8
1	A	1498	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	1598	TYR	2.8
1	C	1592	MET	2.8
1	A	1216	LEU	2.8
1	C	1596	MET	2.8
1	A	1411	TYR	2.8
1	B	1133	ASP	2.8
1	B	1354	GLN	2.8
1	C	1156	TYR	2.8
1	B	1165	ARG	2.8
1	C	1538	MET	2.8
1	A	1409	GLN	2.8
1	C	1411	TYR	2.8
1	A	1173	LEU	2.8
1	B	1417	LEU	2.8
1	C	1441	LYS	2.8
1	A	1390	GLN	2.8
1	B	1185	GLU	2.8
1	B	1213	ALA	2.8
1	A	1096	TYR	2.7
1	B	1083	GLN	2.7
1	A	1174	ILE	2.7
1	C	1522	LYS	2.7
1	C	1242	ASP	2.7
1	C	1481	ARG	2.7
1	C	1243	GLY	2.7
1	C	1284	GLU	2.7
1	A	1618	SER	2.7
1	C	1424	MET	2.7
1	A	1575	ASP	2.7
1	A	1611	ASP	2.7
1	B	1315	GLY	2.7
1	A	1293	ARG	2.7
1	C	1602	VAL	2.7
1	B	1274	LEU	2.7
1	B	1352	ALA	2.7
1	C	1321	ALA	2.7
1	C	1493	ILE	2.7
1	A	1501	LYS	2.7
1	C	1179	LYS	2.7
2	E	138	TRP	2.7
1	A	1405	TYR	2.6
1	A	1084	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	1529	LYS	2.6
1	B	1522	LYS	2.6
1	B	1204	ARG	2.6
1	B	1095	ALA	2.6
2	E	90	ALA	2.6
1	C	1326	LYS	2.6
1	A	1495	LEU	2.6
1	A	1110	GLN	2.6
1	A	1508	ARG	2.6
1	C	1521	TRP	2.6
1	B	1192	GLY	2.6
1	A	1484	ILE	2.6
1	B	1322	ILE	2.6
2	E	119	ALA	2.6
1	C	1251	ARG	2.6
1	C	1383	THR	2.6
1	B	1289	TYR	2.6
1	A	1292	ASP	2.6
1	B	1232	VAL	2.6
1	A	1356	HIS	2.6
1	B	1270	GLN	2.6
1	A	1417	LEU	2.6
1	A	1452	LEU	2.6
1	C	1082	VAL	2.6
1	C	1114	ALA	2.6
2	D	101	SER	2.6
1	A	1480	LEU	2.6
1	C	1555	GLN	2.6
1	C	1590	ASN	2.6
2	D	152	ASN	2.6
1	B	1411	TYR	2.6
1	C	1556	TRP	2.5
1	B	1298	GLU	2.5
1	B	1360	GLU	2.5
1	B	1134	PRO	2.5
1	C	1346	PRO	2.5
1	C	1468	ASN	2.5
1	A	1597	PRO	2.5
1	C	1584	GLU	2.5
2	F	163	GLN	2.5
1	C	1347	LYS	2.5
1	A	1089	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	1505	ILE	2.5
2	D	162	GLN	2.5
1	C	1249	SER	2.5
1	B	1264	LYS	2.5
2	F	158	LYS	2.5
1	C	1193	PRO	2.5
1	A	1432	HIS	2.5
1	B	1564	GLU	2.5
1	B	1375	ILE	2.5
2	F	123	MET	2.5
1	A	1516	LYS	2.5
1	B	1183	LEU	2.4
2	F	141	ARG	2.4
1	B	1397	LYS	2.4
2	F	165	ASP	2.4
1	C	1293	ARG	2.4
1	C	1367	LYS	2.4
1	B	1189	PHE	2.4
1	A	1332	MET	2.4
1	A	1475	GLU	2.4
2	F	111	LYS	2.4
1	C	1455	VAL	2.4
1	B	1556	TRP	2.4
1	B	1370	GLU	2.4
1	B	1515	PHE	2.4
1	C	1095	ALA	2.4
1	C	1591	ILE	2.4
1	A	1471	PHE	2.3
1	A	1517	GLY	2.3
1	B	1377	THR	2.3
1	A	1527	LEU	2.3
1	A	1465	GLU	2.3
1	B	1424	MET	2.3
2	D	154	ARG	2.3
1	A	1445	LEU	2.3
1	B	1574	TYR	2.3
1	C	1500	GLU	2.3
1	B	1540	TYR	2.3
1	B	1207	ASP	2.3
1	B	1212	ASP	2.3
2	E	93	ASP	2.3
1	A	1406	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
1	C	1328	LYS	2.3
2	E	115	GLU	2.3
2	F	100	GLU	2.3
1	C	1288	ASN	2.3
1	B	1604	LYS	2.3
1	C	1582	VAL	2.3
1	A	1545	LYS	2.3
1	A	1157	LEU	2.3
1	B	1114	ALA	2.3
1	C	1554	LEU	2.2
1	B	1174	ILE	2.2
1	C	1599	PHE	2.2
1	A	1377	THR	2.2
1	C	1391	PHE	2.2
1	C	1304	GLU	2.2
2	F	103	ARG	2.2
1	B	1527	LEU	2.2
1	A	1412	LEU	2.2
1	B	1295	TYR	2.2
1	B	1297	GLU	2.2
1	B	1538	MET	2.2
1	C	1374	ALA	2.2
1	B	1531	ASP	2.1
1	A	1391	PHE	2.1
1	C	1394	ILE	2.1
1	A	1125	ILE	2.1
1	C	1565	CYS	2.1
1	C	1141	VAL	2.1
1	B	1458	HIS	2.1
1	A	1444	GLN	2.1
1	C	1327	PHE	2.1
1	C	1426	LEU	2.1
1	A	1472	ILE	2.1
1	B	1265	GLU	2.1
1	B	1521	TRP	2.1
1	B	1085	LEU	2.1
1	C	1331	LYS	2.1
1	A	1169	VAL	2.1
1	A	1403	LEU	2.0
1	B	1361	LEU	2.0
1	A	1468	ASN	2.0
1	B	1330	GLN	2.0

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Mol	Chain	Res	Type	RSRZ
1	B	1240	ALA	2.0
1	B	1236	GLU	2.0
1	B	1584	GLU	2.0
1	A	1179	LYS	2.0
1	B	1285	GLU	2.0
1	B	1519	ASN	2.0
1	C	1177	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.