



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 10:29 AM GMT

PDB ID : 3LVH
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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

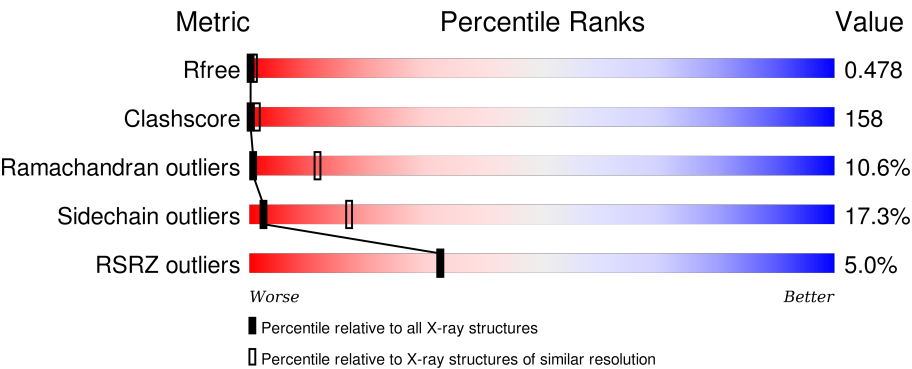
MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

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}	91344	1015 (11.50-3.66)
Clashscore	102246	1064 (11.50-3.70)
Ramachandran outliers	100387	1036 (11.50-3.66)
Sidechain outliers	100360	1006 (11.50-3.66)
RSRZ outliers	91569	1014 (11.50-3.66)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	<div><div>8%</div><div><div></div></div><div>13%51%20%5%11%</div></div>
1	B	624	<div><div>%</div><div><div></div></div><div>12%52%20%5%11%</div></div>
1	C	624	<div><div>2%</div><div><div></div></div><div>13%52%20%5%11%</div></div>
2	D	205	<div><div>2%</div><div><div></div></div><div>9%33%11%45%</div></div>
2	E	205	<div><div>11%</div><div><div></div></div><div>9%28%9%50%</div></div>

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Mol	Chain	Length	Quality of chain
2	F	205	<div><div></div><div>8%32%12%•45%</div></div>

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

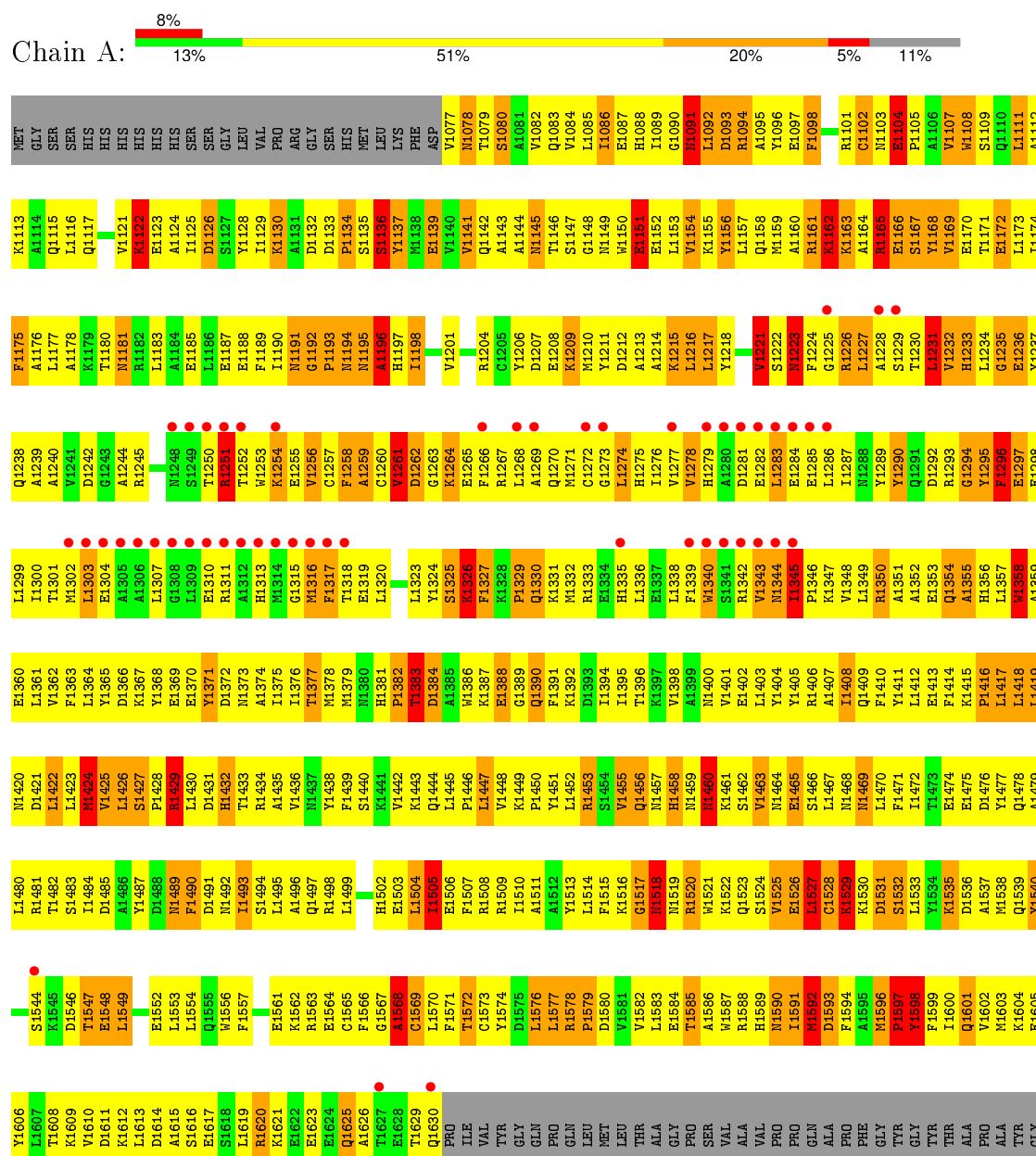
- Molecule 2 is a protein called Clathrin light chain B.

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			

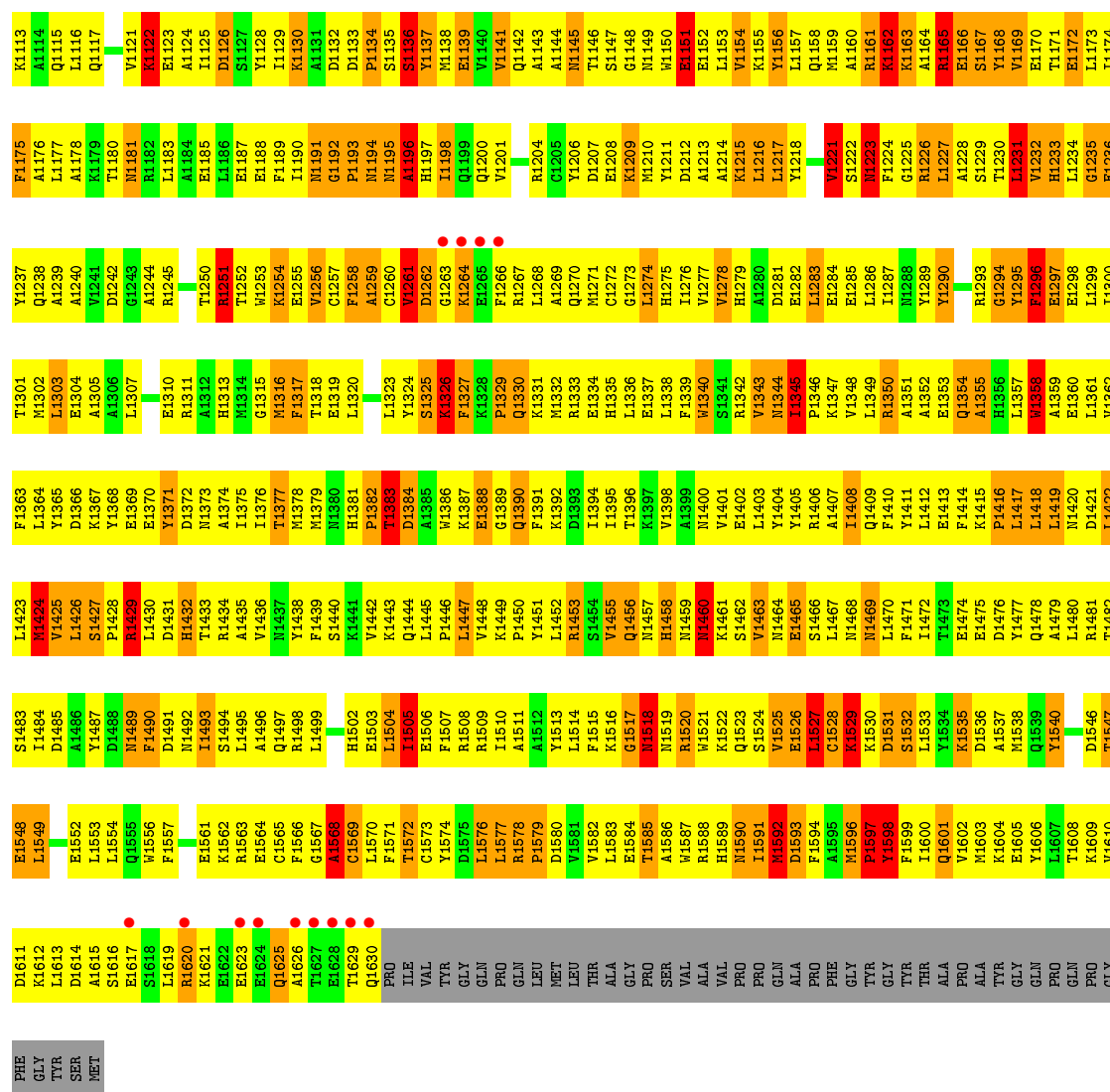
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

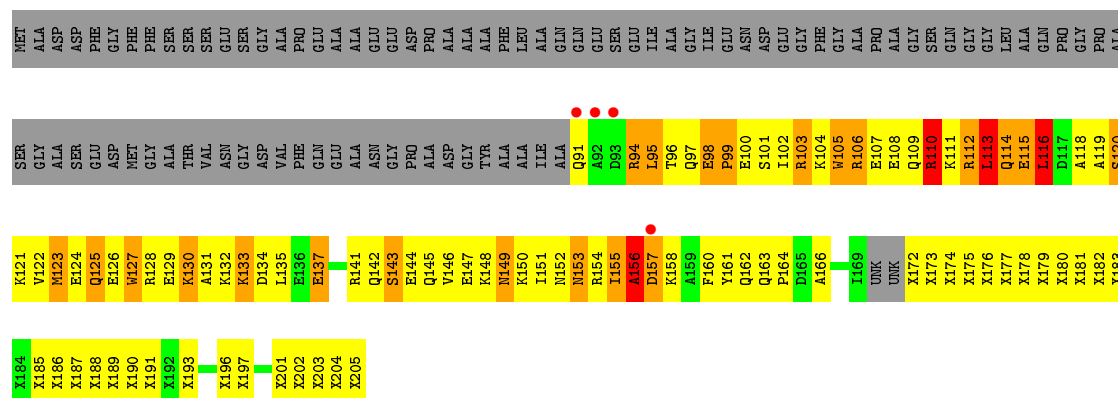
• Molecule 1: Clathrin heavy chain 1



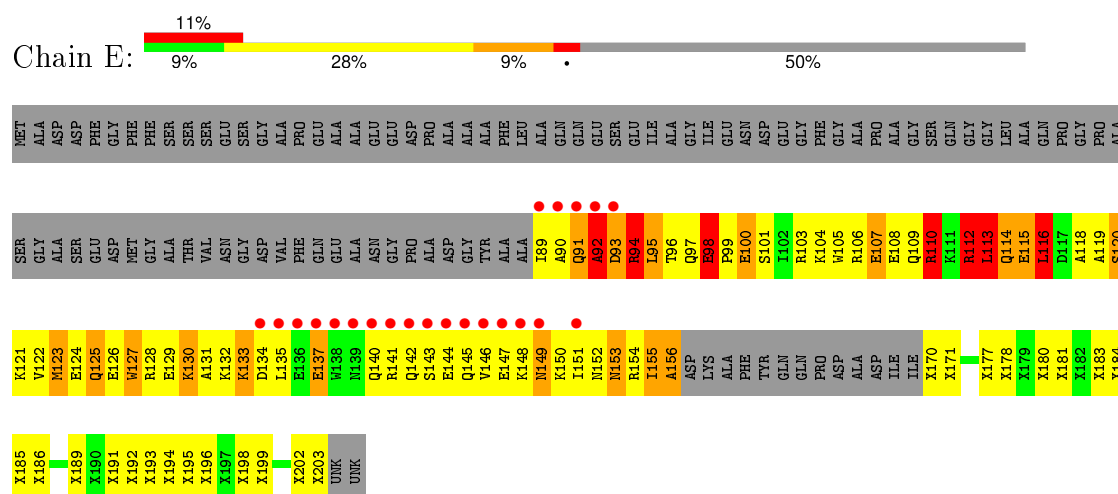
MET	GLY	SER	SER	SER	HIS	HIS	HIS	HIS	HIS	HIS	SER	SER	GLY	LEU	VAL	PRO	ARG	GLY	SER	HIS	HIS	MET	LEU	LYS	PHE	ASP	Y1077	N1078	Y1079	S1080	A1081	Y1082	Q1083	Y1084	L1085	N1086	E1087	H1088	I1089	Y1090	N1091	L1092	D1093	A1094	A1095	Y1096	E1097	F1098	R1101	C1102	N1103	E1104	P1105	A1106	Y1107	N1108	C1109	G1110	L1111	A1112
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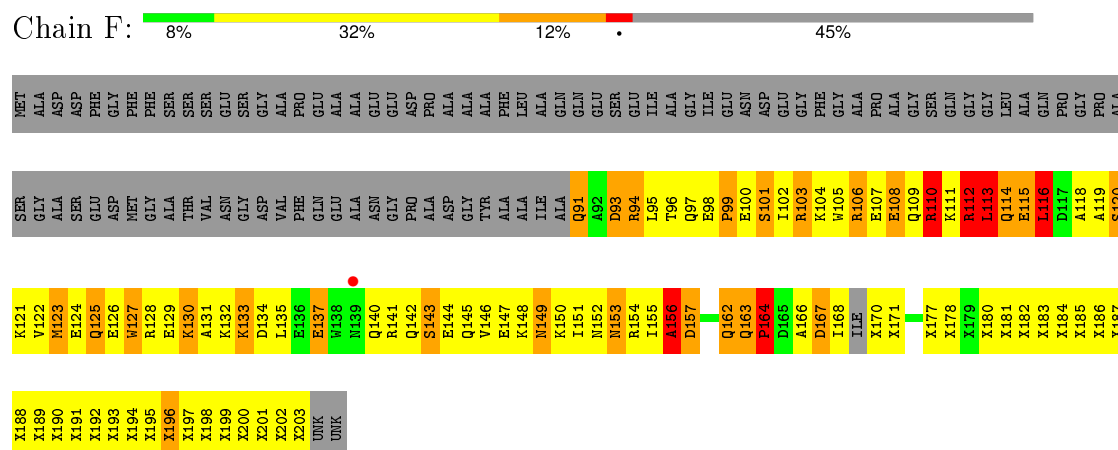
• Molecule 2: Clathrin light chain B



• Molecule 2: Clathrin light chain B



- Molecule 2: Clathrin light chain B



4 Data and refinement statistics

Property	Value	Source
Space group	P 4 ₂ 2 ₁ 2	Depositor
Cell constants a, b, c, α , β , γ	229.71Å 229.71Å 512.27Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	500.00 – 9.00 86.66 – 9.00	Depositor EDS
% Data completeness (in resolution range)	78.7 (500.00-9.00) 78.9 (86.66-9.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.18	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.66 (at 8.41Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.473 , 0.487 0.483 , 0.478	Depositor DCC
R_{free} test set	430 reflections (5.33%)	DCC
Wilson B-factor (Å ²)	604.9	Xtriage
Anisotropy	0.404	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.09 , -10.0	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.38$, $\langle L^2 \rangle = 0.21$	Xtriage
Outliers	1 of 8529 reflections (0.012%)	Xtriage
F_o, F_c correlation	0.69	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, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.48	3/4645 (0.1%)	1.41	104/6276 (1.7%)
1	B	0.36	2/4645 (0.0%)	1.38	101/6276 (1.6%)
1	C	0.36	2/4645 (0.0%)	1.38	101/6276 (1.6%)
2	D	0.74	0/647	1.15	8/866 (0.9%)
2	E	0.69	0/589	1.24	5/785 (0.6%)
2	F	0.77	0/642	1.20	8/859 (0.9%)
All	All	0.46	7/15813 (0.0%)	1.37	327/21338 (1.5%)

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 (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1196	ALA	C-N	-21.36	0.84	1.34
1	C	1136	SER	C-N	-13.41	1.03	1.34
1	B	1136	SER	C-N	-13.39	1.03	1.34
1	A	1136	SER	C-N	-13.36	1.03	1.34
1	B	1592	MET	C-N	-10.33	1.10	1.34
1	C	1592	MET	C-N	-10.33	1.10	1.34
1	A	1592	MET	C-N	-10.30	1.10	1.34

All (327) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1136	SER	C-N-CA	22.64	178.31	121.70
1	B	1136	SER	C-N-CA	22.63	178.27	121.70
1	A	1136	SER	C-N-CA	22.58	178.15	121.70
1	A	1196	ALA	CB-CA-C	21.84	142.86	110.10
1	C	1196	ALA	CB-CA-C	21.79	142.78	110.10
1	B	1196	ALA	CB-CA-C	21.77	142.75	110.10
1	B	1223	ASN	N-CA-C	19.28	163.05	111.00
1	C	1223	ASN	N-CA-C	19.26	163.00	111.00
1	A	1223	ASN	N-CA-C	19.25	162.97	111.00
1	A	1429	ARG	CB-CA-C	-18.59	73.22	110.40
1	B	1429	ARG	CB-CA-C	-18.54	73.32	110.40
1	C	1429	ARG	CB-CA-C	-18.54	73.32	110.40
1	A	1196	ALA	O-C-N	-18.42	93.23	122.70
1	C	1136	SER	O-C-N	-18.01	93.88	122.70
1	B	1136	SER	O-C-N	-18.00	93.91	122.70
1	A	1136	SER	O-C-N	-17.99	93.92	122.70
1	B	1091	ASN	CB-CA-C	-17.46	75.47	110.40
1	A	1091	ASN	CB-CA-C	-17.45	75.50	110.40
1	C	1091	ASN	CB-CA-C	-17.44	75.52	110.40
1	C	1223	ASN	CB-CA-C	-16.80	76.79	110.40
1	A	1223	ASN	CB-CA-C	-16.79	76.82	110.40
1	B	1223	ASN	CB-CA-C	-16.78	76.84	110.40
1	A	1598	TYR	CB-CA-C	16.59	143.58	110.40
1	B	1598	TYR	CB-CA-C	16.58	143.56	110.40
1	C	1598	TYR	CB-CA-C	16.51	143.42	110.40
1	A	1592	MET	CB-CA-C	-16.33	77.74	110.40
1	C	1592	MET	CB-CA-C	-16.31	77.77	110.40
1	B	1592	MET	CB-CA-C	-16.30	77.81	110.40
1	A	1418	LEU	CB-CA-C	-13.99	83.62	110.20
1	B	1418	LEU	CB-CA-C	-13.97	83.66	110.20
1	C	1418	LEU	CB-CA-C	-13.94	83.71	110.20
1	A	1456	GLN	CB-CA-C	-13.68	83.05	110.40
1	C	1456	GLN	CB-CA-C	-13.64	83.11	110.40
1	A	1592	MET	O-C-N	-13.64	100.87	122.70
1	B	1592	MET	O-C-N	-13.64	100.88	122.70
1	B	1456	GLN	CB-CA-C	-13.62	83.15	110.40
1	C	1592	MET	O-C-N	-13.59	100.96	122.70
1	C	1251	ARG	CB-CA-C	-12.31	85.78	110.40
1	B	1251	ARG	CB-CA-C	-12.30	85.79	110.40
1	A	1251	ARG	CB-CA-C	-12.29	85.83	110.40
1	C	1593	ASP	N-CA-CB	12.12	132.42	110.60
1	A	1593	ASP	N-CA-CB	12.08	132.34	110.60
1	B	1593	ASP	N-CA-CB	12.06	132.30	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1223	ASN	C-N-CA	12.04	151.79	121.70
1	C	1223	ASN	C-N-CA	12.04	151.79	121.70
1	A	1223	ASN	C-N-CA	11.99	151.68	121.70
1	A	1196	ALA	CA-C-N	11.86	143.30	117.20
1	B	1231	LEU	CB-CA-C	11.73	132.49	110.20
1	A	1231	LEU	CB-CA-C	11.69	132.41	110.20
1	C	1231	LEU	CB-CA-C	11.69	132.41	110.20
1	B	1136	SER	CA-C-N	11.69	142.92	117.20
1	C	1136	SER	CA-C-N	11.69	142.91	117.20
1	A	1136	SER	CA-C-N	11.67	142.88	117.20
1	C	1532	SER	N-CA-C	-11.26	80.59	111.00
1	A	1532	SER	N-CA-C	-11.26	80.59	111.00
1	B	1532	SER	N-CA-C	-11.25	80.61	111.00
1	A	1528	CYS	CB-CA-C	10.98	132.36	110.40
1	B	1528	CYS	CB-CA-C	10.96	132.32	110.40
1	C	1528	CYS	CB-CA-C	10.95	132.29	110.40
1	A	1196	ALA	C-N-CA	10.69	148.43	121.70
1	B	1355	ALA	N-CA-C	-10.20	83.46	111.00
1	C	1355	ALA	N-CA-C	-10.20	83.47	111.00
1	A	1355	ALA	N-CA-C	-10.18	83.50	111.00
1	A	1325	SER	N-CA-C	10.06	138.17	111.00
1	C	1325	SER	N-CA-C	10.06	138.15	111.00
1	B	1325	SER	N-CA-C	10.02	138.05	111.00
1	A	1162	LYS	CB-CA-C	9.99	130.38	110.40
1	C	1162	LYS	CB-CA-C	9.95	130.30	110.40
1	B	1598	TYR	N-CA-C	-9.94	84.16	111.00
1	B	1162	LYS	CB-CA-C	9.93	130.26	110.40
1	A	1598	TYR	N-CA-C	-9.91	84.24	111.00
1	B	1104	GLU	N-CA-C	9.90	137.74	111.00
1	C	1104	GLU	N-CA-C	9.90	137.74	111.00
1	A	1104	GLU	N-CA-C	9.89	137.71	111.00
1	C	1598	TYR	N-CA-C	-9.88	84.31	111.00
1	A	1210	MET	N-CA-C	-9.59	85.10	111.00
1	C	1210	MET	N-CA-C	-9.58	85.14	111.00
1	B	1210	MET	N-CA-C	-9.57	85.17	111.00
1	A	1256	VAL	CB-CA-C	-9.55	93.25	111.40
1	C	1256	VAL	CB-CA-C	-9.52	93.32	111.40
1	B	1256	VAL	CB-CA-C	-9.51	93.33	111.40
1	B	1181	ASN	CB-CA-C	-9.48	91.43	110.40
1	C	1181	ASN	CB-CA-C	-9.46	91.47	110.40
1	A	1181	ASN	CB-CA-C	-9.45	91.50	110.40
1	C	1358	TRP	CB-CA-C	-9.42	91.55	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1358	TRP	CB-CA-C	-9.41	91.58	110.40
1	A	1358	TRP	CB-CA-C	-9.40	91.60	110.40
1	B	1355	ALA	CB-CA-C	9.35	124.13	110.10
1	C	1355	ALA	CB-CA-C	9.33	124.09	110.10
1	A	1355	ALA	CB-CA-C	9.30	124.05	110.10
2	E	113	LEU	CA-CB-CG	9.27	136.63	115.30
1	A	1256	VAL	N-CA-C	9.23	135.93	111.00
2	F	113	LEU	CA-CB-CG	9.23	136.53	115.30
1	C	1256	VAL	N-CA-C	9.21	135.88	111.00
1	B	1256	VAL	N-CA-C	9.17	135.76	111.00
1	B	1465	GLU	CB-CA-C	-9.14	92.13	110.40
1	C	1465	GLU	CB-CA-C	-9.13	92.14	110.40
2	D	113	LEU	CA-CB-CG	9.10	136.24	115.30
1	A	1465	GLU	CB-CA-C	-9.09	92.22	110.40
1	B	1590	ASN	CB-CA-C	-9.06	92.27	110.40
1	A	1590	ASN	CB-CA-C	-9.06	92.28	110.40
1	C	1590	ASN	CB-CA-C	-9.05	92.31	110.40
1	B	1424	MET	N-CA-C	8.98	135.25	111.00
1	C	1520	ARG	CB-CA-C	-8.98	92.44	110.40
1	A	1424	MET	N-CA-C	8.97	135.22	111.00
1	B	1520	ARG	CB-CA-C	-8.97	92.47	110.40
1	C	1424	MET	N-CA-C	8.96	135.21	111.00
1	A	1520	ARG	CB-CA-C	-8.96	92.47	110.40
1	C	1527	LEU	N-CA-C	8.81	134.79	111.00
1	A	1527	LEU	N-CA-C	8.81	134.78	111.00
1	B	1527	LEU	N-CA-C	8.79	134.73	111.00
1	A	1576	LEU	CB-CA-C	8.77	126.86	110.20
1	C	1576	LEU	CB-CA-C	8.76	126.84	110.20
1	B	1576	LEU	CB-CA-C	8.76	126.83	110.20
1	A	1576	LEU	N-CA-C	-8.74	87.40	111.00
1	B	1576	LEU	N-CA-C	-8.70	87.51	111.00
1	C	1576	LEU	N-CA-C	-8.69	87.53	111.00
1	C	1326	LYS	N-CA-C	-8.52	88.00	111.00
1	A	1326	LYS	N-CA-C	-8.50	88.05	111.00
1	B	1326	LYS	N-CA-C	-8.50	88.05	111.00
1	B	1151	GLU	CB-CA-C	-8.46	93.47	110.40
1	C	1151	GLU	CB-CA-C	-8.43	93.55	110.40
1	A	1151	GLU	CB-CA-C	-8.41	93.57	110.40
2	E	92	ALA	N-CA-C	8.36	133.57	111.00
1	C	1572	THR	N-CA-C	8.29	133.38	111.00
1	A	1572	THR	N-CA-C	8.28	133.37	111.00
1	B	1572	THR	N-CA-C	8.28	133.36	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1136	SER	CB-CA-C	8.14	125.57	110.10
1	A	1136	SER	CB-CA-C	8.14	125.57	110.10
1	C	1136	SER	CB-CA-C	8.10	125.49	110.10
1	A	1325	SER	CB-CA-C	-7.97	94.96	110.10
1	C	1325	SER	CB-CA-C	-7.96	94.97	110.10
1	B	1325	SER	CB-CA-C	-7.93	95.04	110.10
1	C	1592	MET	CA-C-N	7.92	134.63	117.20
1	B	1592	MET	CA-C-N	7.92	134.62	117.20
1	A	1592	MET	CA-C-N	7.90	134.59	117.20
1	A	1590	ASN	N-CA-C	7.81	132.10	111.00
1	B	1590	ASN	N-CA-C	7.81	132.08	111.00
1	C	1590	ASN	N-CA-C	7.80	132.06	111.00
1	A	1455	VAL	CB-CA-C	-7.62	96.92	111.40
1	A	1167	SER	N-CA-C	7.59	131.50	111.00
1	B	1167	SER	N-CA-C	7.59	131.49	111.00
1	A	1529	LYS	N-CA-CB	-7.59	96.94	110.60
1	A	1531	ASP	CB-CA-C	-7.58	95.23	110.40
1	C	1167	SER	N-CA-C	7.58	131.47	111.00
1	C	1531	ASP	CB-CA-C	-7.58	95.25	110.40
1	B	1531	ASP	CB-CA-C	-7.57	95.26	110.40
1	C	1529	LYS	N-CA-CB	-7.57	96.97	110.60
1	B	1529	LYS	N-CA-CB	-7.57	96.98	110.60
1	C	1455	VAL	CB-CA-C	-7.52	97.12	111.40
1	B	1455	VAL	CB-CA-C	-7.51	97.12	111.40
1	A	1371	TYR	CB-CA-C	-7.35	95.70	110.40
1	B	1371	TYR	CB-CA-C	-7.32	95.76	110.40
1	C	1371	TYR	CB-CA-C	-7.27	95.86	110.40
1	A	1457	ASN	N-CA-C	-7.24	91.45	111.00
1	B	1457	ASN	N-CA-C	-7.23	91.49	111.00
1	C	1572	THR	CB-CA-C	-7.23	92.08	111.60
1	C	1457	ASN	N-CA-C	-7.22	91.50	111.00
1	B	1572	THR	CB-CA-C	-7.21	92.14	111.60
1	A	1572	THR	CB-CA-C	-7.20	92.16	111.60
1	A	1465	GLU	N-CA-C	7.18	130.39	111.00
1	C	1465	GLU	N-CA-C	7.18	130.39	111.00
1	B	1261	VAL	CB-CA-C	-7.18	97.76	111.40
1	B	1465	GLU	N-CA-C	7.17	130.35	111.00
1	A	1261	VAL	CB-CA-C	-7.16	97.80	111.40
1	A	1426	LEU	CB-CA-C	-7.14	96.63	110.20
1	C	1261	VAL	CB-CA-C	-7.14	97.84	111.40
1	B	1426	LEU	CB-CA-C	-7.07	96.77	110.20
1	A	1130	LYS	N-CA-C	-7.07	91.92	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1426	LEU	CB-CA-C	-7.06	96.78	110.20
1	C	1130	LYS	N-CA-C	-7.06	91.95	111.00
1	C	1463	VAL	CB-CA-C	-7.05	98.00	111.40
1	B	1130	LYS	N-CA-C	-7.05	91.97	111.00
1	B	1463	VAL	CB-CA-C	-7.04	98.02	111.40
1	A	1463	VAL	CB-CA-C	-7.04	98.02	111.40
1	A	1424	MET	CB-CA-C	-7.04	96.33	110.40
1	B	1424	MET	CB-CA-C	-7.02	96.35	110.40
1	C	1424	MET	CB-CA-C	-7.02	96.36	110.40
1	A	1231	LEU	N-CA-C	-6.96	92.22	111.00
1	C	1231	LEU	N-CA-C	-6.94	92.26	111.00
1	B	1231	LEU	N-CA-C	-6.93	92.30	111.00
1	C	1169	VAL	CB-CA-C	-6.91	98.28	111.40
1	A	1169	VAL	CB-CA-C	-6.90	98.28	111.40
1	B	1169	VAL	CB-CA-C	-6.90	98.28	111.40
1	C	1183	LEU	N-CA-C	6.77	129.28	111.00
1	A	1527	LEU	CB-CA-C	-6.76	97.35	110.20
1	B	1183	LEU	N-CA-C	6.76	129.25	111.00
1	B	1527	LEU	CB-CA-C	-6.75	97.37	110.20
1	A	1183	LEU	N-CA-C	6.75	129.22	111.00
1	C	1527	LEU	CB-CA-C	-6.74	97.40	110.20
1	B	1167	SER	CB-CA-C	-6.72	97.32	110.10
1	C	1167	SER	CB-CA-C	-6.71	97.36	110.10
1	A	1167	SER	CB-CA-C	-6.69	97.39	110.10
1	A	1137	TYR	N-CA-C	6.62	128.87	111.00
1	A	1229	SER	CB-CA-C	6.59	122.63	110.10
1	B	1137	TYR	N-CA-C	6.56	128.72	111.00
1	B	1107	VAL	N-CA-C	6.55	128.67	111.00
1	B	1229	SER	CB-CA-C	6.54	122.52	110.10
1	C	1568	ALA	CB-CA-C	6.54	119.90	110.10
1	A	1107	VAL	N-CA-C	6.53	128.64	111.00
1	A	1573	CYS	CB-CA-C	-6.53	97.35	110.40
1	B	1568	ALA	CB-CA-C	6.53	119.89	110.10
1	C	1229	SER	CB-CA-C	6.53	122.50	110.10
1	C	1137	TYR	N-CA-C	6.52	128.62	111.00
1	A	1568	ALA	CB-CA-C	6.52	119.88	110.10
1	C	1107	VAL	N-CA-C	6.52	128.60	111.00
1	B	1196	ALA	N-CA-C	-6.51	93.42	111.00
1	C	1196	ALA	N-CA-C	-6.51	93.43	111.00
1	A	1196	ALA	N-CA-C	-6.50	93.45	111.00
1	B	1535	LYS	N-CA-C	6.50	128.54	111.00
1	C	1573	CYS	CB-CA-C	-6.48	97.43	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1535	LYS	N-CA-C	6.48	128.49	111.00
1	B	1429	ARG	C-N-CA	6.47	137.86	121.70
1	B	1573	CYS	CB-CA-C	-6.47	97.47	110.40
1	A	1429	ARG	C-N-CA	6.46	137.86	121.70
1	C	1535	LYS	N-CA-C	6.46	128.45	111.00
1	C	1429	ARG	C-N-CA	6.44	137.81	121.70
1	A	1215	LYS	CB-CA-C	6.41	123.22	110.40
1	C	1195	ASN	CB-CA-C	-6.38	97.64	110.40
1	C	1215	LYS	CB-CA-C	6.38	123.15	110.40
1	B	1215	LYS	CB-CA-C	6.37	123.14	110.40
1	A	1195	ASN	CB-CA-C	-6.36	97.67	110.40
1	B	1460	ASN	CB-CA-C	-6.35	97.70	110.40
1	C	1460	ASN	CB-CA-C	-6.34	97.71	110.40
1	B	1195	ASN	CB-CA-C	-6.34	97.72	110.40
1	A	1460	ASN	CB-CA-C	-6.32	97.76	110.40
2	D	113	LEU	N-CA-CB	-6.27	97.86	110.40
2	F	164	PRO	N-CA-CB	6.22	110.76	103.30
1	A	1358	TRP	N-CA-C	6.20	127.74	111.00
1	C	1358	TRP	N-CA-C	6.19	127.71	111.00
1	B	1358	TRP	N-CA-C	6.19	127.70	111.00
2	E	112	ARG	N-CA-C	-6.18	94.31	111.00
2	F	112	ARG	N-CA-C	-6.17	94.34	111.00
2	F	110	ARG	NE-CZ-NH2	-6.11	117.24	120.30
1	A	1183	LEU	CB-CA-C	-6.11	98.60	110.20
1	C	1122	LYS	CB-CA-C	-6.10	98.19	110.40
1	B	1183	LEU	CB-CA-C	-6.09	98.63	110.20
1	B	1122	LYS	CB-CA-C	-6.07	98.26	110.40
1	C	1233	HIS	N-CA-C	-6.07	94.61	111.00
1	A	1518	ASN	CB-CA-C	-6.07	98.27	110.40
1	A	1233	HIS	N-CA-C	-6.06	94.63	111.00
1	B	1233	HIS	N-CA-C	-6.06	94.63	111.00
1	B	1518	ASN	CB-CA-C	-6.06	98.28	110.40
1	C	1183	LEU	CB-CA-C	-6.05	98.71	110.20
1	C	1518	ASN	CB-CA-C	-6.04	98.31	110.40
1	A	1122	LYS	CB-CA-C	-6.03	98.34	110.40
1	C	1569	CYS	N-CA-CB	-6.02	99.76	110.60
1	A	1569	CYS	N-CA-CB	-6.01	99.78	110.60
1	B	1569	CYS	N-CA-CB	-6.00	99.80	110.60
1	B	1235	GLY	N-CA-C	-5.98	98.15	113.10
2	E	110	ARG	NE-CZ-NH2	-5.97	117.31	120.30
1	A	1235	GLY	N-CA-C	-5.97	98.18	113.10
1	C	1235	GLY	N-CA-C	-5.96	98.20	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	110	ARG	NE-CZ-NH2	-5.92	117.34	120.30
1	B	1310	GLU	CB-CA-C	5.88	122.16	110.40
2	D	164	PRO	N-CA-CB	5.86	110.34	103.30
1	A	1310	GLU	CB-CA-C	5.85	122.10	110.40
1	C	1310	GLU	CB-CA-C	5.84	122.08	110.40
1	C	1139	GLU	CB-CA-C	-5.81	98.77	110.40
1	A	1192	GLY	C-N-CD	-5.81	107.82	120.60
1	A	1232	VAL	N-CA-CB	5.81	124.28	111.50
1	B	1232	VAL	N-CA-CB	5.79	124.23	111.50
1	C	1192	GLY	C-N-CD	-5.78	107.88	120.60
1	B	1139	GLU	CB-CA-C	-5.78	98.84	110.40
1	A	1139	GLU	CB-CA-C	-5.78	98.85	110.40
1	B	1192	GLY	C-N-CD	-5.78	107.90	120.60
1	C	1232	VAL	N-CA-CB	5.76	124.18	111.50
1	A	1383	THR	CB-CA-C	5.75	127.14	111.60
1	C	1383	THR	CB-CA-C	5.75	127.11	111.60
1	A	1210	MET	CB-CA-C	5.74	121.88	110.40
1	B	1383	THR	CB-CA-C	5.73	127.08	111.60
1	C	1094	ARG	CB-CA-C	5.72	121.85	110.40
1	B	1210	MET	CB-CA-C	5.70	121.81	110.40
1	B	1094	ARG	CB-CA-C	5.70	121.79	110.40
1	C	1210	MET	CB-CA-C	5.69	121.79	110.40
1	A	1094	ARG	CB-CA-C	5.68	121.76	110.40
1	C	1425	VAL	CB-CA-C	-5.59	100.77	111.40
1	A	1425	VAL	CB-CA-C	-5.58	100.79	111.40
1	B	1425	VAL	CB-CA-C	-5.58	100.80	111.40
1	B	1371	TYR	N-CA-C	5.52	125.90	111.00
1	A	1371	TYR	N-CA-C	5.51	125.89	111.00
1	C	1139	GLU	N-CA-C	5.51	125.88	111.00
1	B	1139	GLU	N-CA-C	5.50	125.85	111.00
1	A	1139	GLU	N-CA-C	5.49	125.82	111.00
1	C	1371	TYR	N-CA-C	5.47	125.78	111.00
1	A	1232	VAL	N-CA-C	-5.46	96.27	111.00
1	B	1623	GLU	CB-CA-C	-5.45	99.50	110.40
1	B	1232	VAL	N-CA-C	-5.45	96.29	111.00
2	D	157	ASP	N-CA-C	5.45	125.71	111.00
1	C	1232	VAL	N-CA-C	-5.44	96.31	111.00
2	F	157	ASP	N-CA-C	5.44	125.68	111.00
1	A	1623	GLU	CB-CA-C	-5.43	99.53	110.40
1	C	1623	GLU	CB-CA-C	-5.42	99.56	110.40
2	F	156	ALA	N-CA-C	-5.39	96.44	111.00
2	D	156	ALA	N-CA-C	-5.37	96.49	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1215	LYS	N-CA-C	-5.34	96.59	111.00
1	A	1593	ASP	CB-CA-C	-5.33	99.75	110.40
1	B	1151	GLU	N-CA-C	5.32	125.37	111.00
1	B	1593	ASP	CB-CA-C	-5.32	99.75	110.40
1	A	1215	LYS	N-CA-C	-5.32	96.63	111.00
1	A	1151	GLU	N-CA-C	5.32	125.35	111.00
1	C	1593	ASP	CB-CA-C	-5.31	99.78	110.40
1	C	1151	GLU	N-CA-C	5.30	125.32	111.00
1	B	1215	LYS	N-CA-C	-5.28	96.74	111.00
2	D	143	SER	N-CA-C	5.22	125.10	111.00
2	F	143	SER	N-CA-C	5.22	125.10	111.00
1	B	1440	SER	CB-CA-C	-5.22	100.19	110.10
2	E	156	ALA	N-CA-C	-5.21	96.94	111.00
1	A	1440	SER	CB-CA-C	-5.20	100.22	110.10
1	A	1598	TYR	C-N-CA	5.19	134.68	121.70
1	B	1598	TYR	C-N-CA	5.18	134.64	121.70
2	F	156	ALA	C-N-CA	5.17	134.63	121.70
1	C	1440	SER	CB-CA-C	-5.17	100.29	110.10
1	C	1598	TYR	C-N-CA	5.14	134.56	121.70
2	D	156	ALA	C-N-CA	5.14	134.56	121.70
1	A	1107	VAL	CB-CA-C	-5.14	101.64	111.40
1	B	1107	VAL	CB-CA-C	-5.13	101.66	111.40
1	C	1107	VAL	CB-CA-C	-5.12	101.67	111.40
1	B	1592	MET	C-N-CA	5.12	134.50	121.70
1	C	1453	ARG	CB-CA-C	-5.11	100.19	110.40
1	A	1592	MET	C-N-CA	5.10	134.46	121.70
1	B	1453	ARG	CB-CA-C	-5.10	100.20	110.40
1	C	1592	MET	C-N-CA	5.10	134.44	121.70
1	C	1092	LEU	N-CA-CB	5.09	120.57	110.40
1	A	1453	ARG	CB-CA-C	-5.08	100.25	110.40
1	B	1092	LEU	N-CA-CB	5.02	120.45	110.40
1	A	1092	LEU	N-CA-CB	5.00	120.40	110.40

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	Mainchain,Peptide
1	A	1223	ASN	Peptide
1	A	1326	LYS	Peptide
1	A	1429	ARG	Peptide

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Mol	Chain	Res	Type	Group
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	4457	1578	23
1	B	4550	0	4456	1511	40
1	C	4550	0	4461	1420	30
2	D	811	0	641	286	0
2	E	753	0	615	220	0
2	F	806	0	640	345	35
All	All	16020	0	15270	4959	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 158.

All (4959) 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:C:1253:TRP:CZ3	1:C:1276:ILE:HG22	1.19	1.67
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:1264:LYS:CE	1:C:1268:LEU:HD12	1.12	1.57
1:B:1292:ASP:HB3	2:D:97:GLN:CB	1.25	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:B:1292:ASP:CB	2:D:97:GLN:CA	1.82	1.54
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:1601:GLN:HG2	1:B:1587:TRP:CH2	1.52	1.45
1:A:1108:TRP:CH2	1:A:1129:ILE:CB	1.95	1.45
1:A:1382:PRO:CG	2:F:123:MET:HE3	1.44	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:1539:GLN:NE2	2:F:177:UNK:CB	1.80	1.43
1:A:1475:GLU:OE2	2:F:146:VAL:CA	1.66	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:1382:PRO:CB	2:F:123:MET:HE1	1.51	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:1167:SER:O	1:B:1171:THR:HB	1.23	1.36
1:B:1395:ILE:HG13	1:B:1404:TYR:CE2	1.58	1.36
1:C:1290:TYR:CD2	1:C:1299:LEU:HD13	1.61	1.36
1:A:1290:TYR:CD2	1:A: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
1:A:1475:GLU:CG	2:F:149:ASN:ND2	1.69	1.35
1:B:1566:PHE:HZ	2:D:179:UNK:CA	1.21	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:B:1290:TYR:CD2	1:B:1299:LEU:HD13	1.61	1.33
1:B:1253:TRP:CE3	1:B:1276:ILE:HG22	1.60	1.33
1:A:1371:TYR:HD1	1:A:1394:ILE:CG2	1.42	1.33
1:C:1409:GLN:HG3	1:C:1413:GLU:CG	1.59	1.33
1:C:1371:TYR:HD1	1:C:1394:ILE:CG2	1.42	1.33
1:B:1371:TYR:HD1	1:B:1394:ILE:CG2	1.42	1.33
1:B:1371:TYR:CD1	1:B:1394:ILE:HG23	1.64	1.33
1:C:1253:TRP:CZ3	1:C:1276:ILE:CG2	2.06	1.32
1:A:1566:PHE:CE2	2:F:180:UNK:CB	2.12	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:B:1414:PHE:C	2:D:130:LYS:HD3	1.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:A:1382:PRO:CB	2:F:123:MET:CE	2.09	1.31
1:C:1108:TRP:CH2	1:C:1129:ILE:CG2	2.11	1.31
1:B:1414:PHE:O	1:B:1416:PRO:HD3	1.25	1.31
1:A:1108:TRP:CZ3	1:A:1129:ILE:HB	1.66	1.30
1:C:1079:THR:HG22	1:C:1105:PRO:CG	1.60	1.30
1:A:1409:GLN:HG3	1:A:1413:GLU:CG	1.59	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
2:D:112:ARG:C	2:D:112:ARG:HD3	1.50	1.30
1:A:1079:THR:HG22	1:A:1105:PRO:CG	1.60	1.29
1:C:1108:TRP:CZ3	1:C:1129:ILE:HB	1.66	1.29
1:B:1409:GLN:CA	1:B:1413:GLU:HG2	1.60	1.29
1:A:1414:PHE:CE2	2:F:127:TRP:CD2	2.21	1.29
1:A:1409:GLN:HA	1:A:1413:GLU:CG	1.61	1.29
1:C:1130:LYS:HD2	1:C:1156:TYR:CE1	1.66	1.29
2:E:119:ALA:O	2:E:123:MET:HG2	1.28	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
1:A:1130:LYS:HD2	1:A:1156:TYR:CE1	1.66	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
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:C:1250:THR:O	1:C:1251:ARG:HG2	1.22	1.27
1:B:1079:THR:HG22	1:B:1105:PRO:CB	1.64	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:B:1108:TRP:HD1	1:B:1133:ASP:O	1.11	1.25
1:A:1356:HIS:CG	2:F:112:ARG:HH21	1.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:D:112:ARG:HD3	2:D:112:ARG:O	1.35	1.24
1:C:1108:TRP:HD1	1:C:1133:ASP:O	1.11	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
2:D:119:ALA:O	2:D:123:MET:HG2	1.28	1.24
1:C:1395:ILE:CG1	1:C:1404:TYR:CE2	2.19	1.24
1:A:1395:ILE:CG1	1:A:1404:TYR:CE2	2.19	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:1412:LEU:CD1	1:B:1419:LEU:HD21	1.67	1.23
2:F:114:GLN:CG	2:F:115:GLU:H	1.47	1.23
1:C:1419:LEU:O	1:C:1422:LEU:HB3	1.34	1.23
1:A:1130:LYS:HD2	1:A:1156:TYR:CD1	1.73	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:B:1414:PHE:HA	2:D:130:LYS:CD	1.66	1.22
1:A:1154:VAL:HG21	1:A:1180:THR:CG2	1.68	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:C:1429:ARG:CG	1:C:1429:ARG:O	1.73	1.22
1:B:1154:VAL:HG21	1:B:1180:THR:CG2	1.67	1.22
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:C:1602:VAL:HG11	2:E:202:UNK:O	1.39	1.20
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1279:HIS:HE1	1:C:1286:LEU:HD22	1.07	1.20
1:A:1327:PHE:CZ	2:F:104:LYS:CG	2.20	1.20
1:B:1079:THR:CG2	1:B:1105:PRO:HG3	1.71	1.20
1:A:1475:GLU:CB	2:F:149:ASN:ND2	2.03	1.20
1:B:1427:SER:HB2	1:B:1428:PRO:HD3	1.20	1.20
1:B:1279:HIS:CG	1:B:1282:GLU:HB3	1.77	1.20
1:A:1419:LEU:O	1:A:1422:LEU:HB3	1.34	1.19
1:A:1409:GLN:O	1:A:1413:GLU:HB2	1.40	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:C:1279:HIS:CD2	1:C:1282:GLU:HB3	1.78	1.19
1:A:1539:GLN:CD	2:F:177:UNK:CB	2.10	1.19
1:B:1463:VAL:O	1:B:1467:LEU:HB2	1.04	1.19
1:A:1162:LYS:HG3	1:A:1163:LYS:NZ	1.58	1.19
1:A:1605:GLU:HB2	1:B:1580:ASP:CG	1.60	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:1279:HIS:CG	1:A:1282:GLU:HB3	1.77	1.19
1:A:1079:THR:CG2	1:A:1105:PRO:CG	2.21	1.19
1:C:1361:LEU:CD2	1:C:1365:TYR:CE2	2.25	1.19
1:A:1580:ASP:OD1	1:C:1605:GLU:HB2	1.38	1.19
1:C:1588:ARG:HD2	2:D:197:UNK:CB	1.73	1.19
1:C:1326:LYS:CG	1:C:1326:LYS:O	1.90	1.18
1:B:1292:ASP:C	2:D:97:GLN:HA	1.51	1.18
2:D:114:GLN:CG	2:D:115:GLU:H	1.48	1.18
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
2:D:174:UNK:HA	2:D:176:UNK:N	1.59	1.18
1:B:1079:THR:O	1:B:1105:PRO:CG	1.91	1.18
1:B:1361:LEU:CD2	1:B:1365:TYR:CE2	2.25	1.18
1:A:1165:ARG:NH2	1:A:1194:ASN:OD1	1.76	1.18
1:B:1162:LYS:HG3	1:B:1163:LYS:NZ	1.58	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:B:1279:HIS:CD2	1:B:1282:GLU:HB3	1.78	1.17
1:A:1326:LYS:O	1:A:1326:LYS:CG	1.90	1.17
1:A:1427:SER:CB	1:A:1428:PRO:HD3	1.74	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1253:TRP:O	1:C:1289:TYR:CE2	1.96	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:1490:PHE:CE1	1:C:1492:ASN:OD1	1.98	1.17
1:C:1279:HIS:CG	1:C:1282:GLU:HB3	1.77	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:C:1165:ARG:NH2	1:C:1194:ASN:OD1	1.76	1.17
1:B:1490:PHE:CE1	1:B:1492:ASN:OD1	1.97	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:1586:ALA:HB1	1:A:1590:ASN:ND2	1.61	1.16
1:B:1586:ALA:HB1	1:B:1590:ASN:HD21	1.09	1.16
1:B:1108:TRP:CZ3	1:B:1129:ILE:CB	2.27	1.16
1:C:1079:THR:O	1:C:1105:PRO:CG	1.91	1.16
1:A:1414:PHE:CE1	2:F:127:TRP:CD1	1.89	1.16
1:B:1108:TRP:CD1	1:B:1133:ASP:O	1.98	1.16
1:C:1079:THR:CG2	1:C:1105:PRO:CG	2.21	1.16
1:B:1427:SER:CB	1:B:1428:PRO:HD3	1.75	1.16
1:A:1490:PHE:CE1	1:A:1492:ASN:OD1	1.98	1.16
1:A:1601:GLN:CG	1:B:1587:TRP:CH2	2.29	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
2:E:114:GLN:HG3	2:E:115:GLU:N	1.46	1.16
1:B:1586:ALA:HB1	1:B:1590:ASN:ND2	1.61	1.16
1:B:1358:TRP:HE3	1:B:1377:THR:CG2	1.58	1.16
1:A:1358:TRP:HE3	1:A:1377:THR:CG2	1.58	1.16
1:C:1427:SER:CB	1:C:1428:PRO:HD3	1.75	1.16
1:B:1566:PHE:CZ	2:D:179:UNK:HA	1.80	1.16
1:A:1605:GLU:CG	1:B:1580:ASP:OD2	1.94	1.16
1:B:1293:ARG:N	2:D:97:GLN:OE1	1.79	1.15
1:B:1326:LYS:CG	1:B:1326:LYS:O	1.90	1.15
1:B:1170:GLU:OE2	1:B:1195:ASN:O	1.64	1.15
1:C:1358:TRP:CH2	1:C:1381:HIS:NE2	2.15	1.15
1:A:1382:PRO:CG	2:F:123:MET:CE	2.21	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:C:1108:TRP:HH2	1:C:1129:ILE:HG22	1.12	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:1509:ARG:NH1	2:D:166:ALA:H	1.44	1.15
1:A:1148:GLY:CA	1:A:1150:TRP:CZ3	2.30	1.15
1:C:1221:VAL:HG13	1:C:1222:SER:N	1.58	1.15
1:A:1602:VAL:HG13	2:F:203:UNK:O	1.47	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:B:1148:GLY:CA	1:B:1150:TRP:CZ3	2.30	1.15
1:C:1148:GLY:CA	1:C:1150:TRP:CZ3	2.30	1.15
1:B:1221:VAL:HG13	1:B:1222:SER:N	1.58	1.15
1:A:1108:TRP:HH2	1:A:1129:ILE:HG22	1.12	1.14
1:A:1414:PHE:CA	2:F:130:LYS:HD2	1.21	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:1463:VAL:O	1:C:1467:LEU:CB	1.95	1.14
1:B:1159:MET:HA	1:B:1163:LYS:HZ3	1.10	1.14
1:C:1109:SER:HB2	1:C:1135:SER:HB3	1.25	1.14
1:A:1327:PHE:CZ	2:F:104:LYS:HG3	1.53	1.14
1:A:1327:PHE:HE1	2:F:104:LYS:CB	1.50	1.13
1:C:1586:ALA:HB1	1:C:1590:ASN:ND2	1.61	1.13
1:A:1111:LEU:HD11	1:A:1125:ILE:HG13	1.29	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:A:1159:MET:HA	1:A:1163:LYS:HZ3	1.13	1.13
1:B:1113:LYS:HA	1:B:1139:GLU:OE2	1.48	1.13
2:D:114:GLN:HG3	2:D:115:GLU:N	1.45	1.13
1:C:1358:TRP:CZ3	1:C:1381:HIS:NE2	2.16	1.13
1:C:1154:VAL:HG21	1:C:1180:THR:HG21	1.17	1.13
1:C:1361:LEU:HD21	1:C:1365:TYR:CE2	1.83	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:1170:GLU:OE2	1:C:1195:ASN:O	1.64	1.13
1:A:1605:GLU:HB2	1:B:1580:ASP:OD1	1.46	1.13
1:C:1113:LYS:HA	1:C:1139:GLU:OE2	1.48	1.13
1:B:1253:TRP:CE3	1:B:1276:ILE:HG21	1.75	1.13
1:B:1267:ARG:NH1	1:B:1298:GLU:OE2	1.82	1.13
1:B:1264:LYS:HE2	1:B:1268:LEU:CD1	1.72	1.12
1:B:1292:ASP:CB	2:D:97:GLN:CB	2.17	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1566:PHE:HE2	2:F:180:UNK:CB	1.56	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:C:1427:SER:HB2	1:C:1428:PRO:HD3	1.20	1.12
1:B:1605:GLU:HA	1:B:1608:THR:HB	1.28	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:A:1444:GLN:HG2	2:F:134:ASP:HB2	1.23	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: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:1605:GLU:HA	1:A:1608:THR:HB	1.28	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:C:1586:ALA:HB1	1:C:1590:ASN:HD21	1.09	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: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:1411:TYR:CA	1:A:1415:LYS:HB3	1.80	1.11
1:B:1279:HIS:HE1	1:B:1286:LEU:HD22	1.07	1.11
1:A:1427:SER:HB2	1:A:1428:PRO:CD	1.79	1.11
1:C:1475:GLU:OE1	2:E:141:ARG:HG2	1.47	1.11
1:C:1253:TRP:CE3	1:C:1276:ILE:HG21	1.75	1.11
1:B:1411:TYR:CA	1:B:1415:LYS:HB3	1.80	1.11
1:C:1159:MET:HA	1:C:1163:LYS:HZ1	1.05	1.11
1:C:1578:ARG:CZ	1:C:1583:LEU:HD23	1.80	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:B:1293:ARG:HA	2:D:96:THR:HG23	1.32	1.11
2:F:195:UNK:CA	2:F:197:UNK:CB	2.29	1.11
1:A:1475:GLU:HG2	2:F:149:ASN:ND2	1.66	1.11
1:C:1411:TYR:CA	1:C:1415:LYS:HB3	1.80	1.11
2:F:114:GLN:HG3	2:F:115:GLU:N	1.46	1.10
2:F:162:GLN:C	2:F:166:ALA:HB3	1.70	1.10
1:A:1279:HIS:HE1	1:A:1286:LEU:HD22	1.07	1.10
1:C:1111:LEU:HD11	1:C:1125:ILE:HG13	1.29	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1122:LYS:HA	1:C:1125:ILE:HG22	1.31	1.10
1:A:1414:PHE:CZ	2:F:127:TRP:CG	2.17	1.10
1:A:1167:SER:C	1:A:1171:THR:HB	1.71	1.10
1:A:1221:VAL:HG13	1:A:1222:SER:N	1.58	1.10
1:B:1109:SER:HB2	1:B:1135:SER:HB3	1.25	1.10
1:C:1267:ARG:NH1	1:C:1298:GLU:OE2	1.82	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:1167:SER:O	1:B:1171:THR:CB	1.99	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:1167:SER:C	1:B:1171:THR:HB	1.71	1.10
1:C:1274:LEU:HG	1:C:1302:MET:HG2	1.34	1.10
1:B:1108:TRP:CZ3	1:B:1129:ILE:CG2	2.35	1.10
1:C:1122:LYS:NZ	1:C:1147:SER:OG	1.83	1.10
1:B:1455:VAL:HG12	1:B:1456:GLN:H	1.17	1.10
1:A:1596:MET:H	1:A:1597:PRO:HD2	1.06	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:1154:VAL:HG21	1:A:1180:THR:HG21	1.17	1.09
1:A:1490:PHE:CZ	1:A:1492:ASN:OD1	2.05	1.09
1:B:1221:VAL:HG13	1:B:1222:SER:H	1.12	1.09
1:B:1596:MET:H	1:B:1597:PRO:HD2	1.06	1.09
1:C:1596:MET:H	1:C:1597:PRO:HD2	1.06	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:C:1108:TRP:CZ3	1:C:1129:ILE:CG2	2.35	1.09
1:B:1408:ILE:HG22	1:B:1412:LEU:HB3	1.20	1.09
1:B:1566:PHE:CZ	2:D:179:UNK:CB	2.28	1.09
1:A:1122:LYS:NZ	1:A:1147:SER:OG	1.83	1.09
1:B:1427:SER:HB2	1:B:1428:PRO:CD	1.79	1.09
1:B:1274:LEU:HG	1:B:1302:MET:HG2	1.34	1.09
1:B:1085:LEU:HD13	1:B:1098:PHE:HE1	1.16	1.09
1:A:1122:LYS:HA	1:A:1125:ILE:HG22	1.32	1.09
1:C:1167:SER:C	1:C:1171:THR:HB	1.71	1.09
1:A:1327:PHE:CE1	2:F:104:LYS:CB	2.26	1.09
1:A:1267:ARG:CZ	1:A:1298:GLU:OE2	2.01	1.09
1:B:1111:LEU:HD11	1:B:1125:ILE:HG13	1.29	1.09
1:A:1108:TRP:CZ3	1:A:1129:ILE:CG2	2.35	1.09
1:C:1079:THR:HG22	1:C:1105:PRO:HG3	1.21	1.09
1:A:1417:LEU:O	1:A:1418:LEU:HB2	1.50	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1358:TRP:O	1:A:1362:VAL:HG23	1.51	1.09
1:B:1504:LEU:HD22	2:D:152:ASN:HB2	1.26	1.09
2:D:181:UNK:CA	2:D:183:UNK:CB	2.30	1.09
1:C:1326:LYS:HG2	1:C:1326:LYS:O	1.31	1.08
1:B:1490:PHE:CZ	1:B:1492:ASN:OD1	2.05	1.08
1:A:1357:LEU:HD21	2:F:111:LYS:CE	1.82	1.08
1:B:1592:MET:HE2	1:B:1593:ASP:N	1.68	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: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:A:1167:SER:O	1:A:1171:THR:CB	1.99	1.08
1:B:1154:VAL:HG21	1:B:1180:THR:HG21	1.17	1.08
1:C:1264:LYS:HE2	1:C:1268:LEU:HD12	1.09	1.08
1:B:1412:LEU:HD13	1:B:1419:LEU:HD21	1.10	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:B:1326:LYS:HG2	1:B:1326:LYS:O	1.31	1.08
1:A:1107:VAL:HG12	1:A:1107:VAL:O	1.26	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:1166:GLU:O	1:A:1170:GLU:N	1.87	1.07
1:A:1109:SER:HB2	1:A:1135:SER:HB3	1.25	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
1:C:1107:VAL:CG1	1:C:1107:VAL:O	2.01	1.07
2:D:119:ALA:O	2:D:123:MET:CG	2.02	1.07
1:C:1267:ARG:CZ	1:C:1298:GLU:OE2	2.01	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: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:A:1162:LYS:HG3	1:A:1163:LYS:HZ1	1.00	1.07
1:A:1592:MET:HE2	1:A:1593:ASP:N	1.69	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:1258:PHE:CZ	2:F:93:ASP:OD1	2.06	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:C:1085:LEU:HD13	1:C:1098:PHE:HE1	1.17	1.07
2:F:163:GLN:N	2:F:166:ALA:HB3	1.70	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1504:LEU:HD11	2:F:149:ASN:O	1.54	1.07
1:B:1162:LYS:HG3	1:B:1163:LYS:HZ1	0.95	1.07
1:A:1113:LYS:CA	1:A:1139:GLU:OE2	2.02	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:1250:THR:O	1:A:1251:ARG:CG	2.04	1.06
1:A:1078:ASN:O	1:A:1102:CYS:SG	2.13	1.06
1:B:1414:PHE:C	2:D:130:LYS:CD	2.15	1.06
2:D:181:UNK:HA	2:D:183:UNK:CB	1.85	1.06
1:A:1159:MET:HA	1:A:1163:LYS:NZ	1.70	1.06
2:D:174:UNK:CB	2:D:177:UNK:CB	2.33	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:A:1079:THR:HG22	1:A:1105:PRO:HB3	1.33	1.06
1:C:1079:THR:HG22	1:C:1105:PRO:HB3	1.33	1.06
1:C:1107:VAL:HG12	1:C:1107:VAL:O	1.26	1.06
2:F:162:GLN:CA	2:F:166:ALA:CB	2.33	1.06
1:C:1605:GLU:HA	1:C:1608:THR:HB	1.28	1.06
1:B:1159:MET:CA	1:B:1163:LYS:HZ3	1.68	1.06
1:B:1159:MET:HA	1:B:1163:LYS:NZ	1.69	1.06
1:C:1504:LEU:HD11	2:E:149:ASN:HD21	1.18	1.06
2:F:195:UNK:HA	2:F:197:UNK:CB	1.84	1.06
1:A:1078:ASN:ND2	1:A:1101:ARG:C	2.08	1.06
1:C:1078:ASN:O	1:C:1102:CYS:SG	2.13	1.06
1:A:1605:GLU:CB	1:B:1580:ASP:OD2	2.03	1.06
1:B:1250:THR:O	1:B:1251:ARG:CG	2.04	1.06
1:B:1078:ASN:O	1:B:1102:CYS:HB3	1.54	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:C:1166:GLU:OE1	1:C:1169:VAL:HG23	1.53	1.06
1:B:1078:ASN:ND2	1:B:1101:ARG:C	2.08	1.05
1:C:1079:THR:CG2	1:C:1105:PRO:HB3	1.86	1.05
1:B:1166:GLU:O	1:B:1170:GLU:N	1.87	1.05
1:C:1166:GLU:O	1:C:1170:GLU:N	1.87	1.05
1:C:1162:LYS:CG	1:C:1163:LYS:HZ2	1.68	1.05
1:C:1387:LYS:HB2	1:C:1390:GLN:CB	1.86	1.05
1:C:1592:MET:HE2	1:C:1593:ASP:N	1.69	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:1264:LYS:HE2	1:B:1268:LEU:HD12	1.09	1.05
1:A:1357:LEU:HD23	2:F:111:LYS:HE3	1.29	1.05
1:C:1078:ASN:ND2	1:C:1101:ARG:C	2.08	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:B:1145:ASN:ND2	1:B:1150:TRP:HE1	1.54	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:B:1078:ASN:O	1:B:1102:CYS:SG	2.14	1.05
1:A:1159:MET:CA	1:A:1163:LYS:HZ3	1.68	1.05
1:A:1580:ASP:OD2	1:C:1605:GLU:HG3	1.57	1.05
1:B:1327:PHE:HA	2:D:104:LYS:NZ	1.72	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:A:1079:THR:CG2	1:A:1105:PRO:HB3	1.87	1.04
1:A:1279:HIS:CE1	1:A:1286:LEU:HD22	1.93	1.04
1:B:1264:LYS:HE3	1:B:1268:LEU:CD1	1.74	1.04
1:A:1085:LEU:HD13	1:A:1098:PHE:HE1	1.17	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:B:1078:ASN:HD22	1:B:1101:ARG:HB3	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:C:1279:HIS:CE1	1:C:1286:LEU:HD22	1.93	1.04
1:B:1279:HIS:CE1	1:B:1286:LEU:HD22	1.93	1.04
1:B:1107:VAL:HG12	1:B:1107:VAL:O	1.26	1.04
1:B:1107:VAL:CG1	1:B:1107:VAL:O	2.01	1.04
1:A:1107:VAL:CG1	1:A:1107:VAL:O	2.01	1.04
1:A:1145:ASN:ND2	1:A:1150:TRP:HE1	1.54	1.04
1:A:1274:LEU:HG	1:A:1302:MET:HG2	1.34	1.04
1:A:1456:GLN:O	1:A:1456:GLN:HG2	1.58	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:C:1456:GLN:O	1:C:1456:GLN:CG	1.94	1.04
2:E:155:ILE:H	2:E:155:ILE:HD12	1.19	1.04
1:B:1300:ILE:HG22	1:B:1323:LEU:HD13	1.39	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:A:1382:PRO:HB2	2:F:123:MET:HE1	1.07	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1474:GLU:O	2:F:145:GLN:HB3	1.58	1.03
1:B:1456:GLN:CG	1:B:1456:GLN:O	1.94	1.03
1:B:1475:GLU:OE1	2:D:145:GLN:CD	1.96	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:C:1264:LYS:HE2	1:C:1268:LEU:CD1	1.72	1.03
1:A:1122:LYS:CE	1:A:1147:SER:OG	2.07	1.03
1:B:1504:LEU:HG	2:D:149:ASN:HA	1.37	1.03
1:C:1408:ILE:HG22	1:C:1412:LEU:CB	1.87	1.03
1:C:1159:MET:CA	1:C:1163:LYS:HZ1	1.70	1.03
1:B:1387:LYS:HB2	1:B:1390:GLN:CB	1.87	1.03
1:C:1300:ILE:HG22	1:C:1323:LEU:HD13	1.39	1.03
1:B:1504:LEU:HG	2:D:149:ASN:O	1.58	1.03
1:C:1145:ASN:ND2	1:C:1150:TRP:HE1	1.54	1.03
1:B:1521:TRP:CE3	1:B:1522:LYS:HD2	1.94	1.03
1:A:1411:TYR:O	1:A:1415:LYS:HB3	1.58	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: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:1414:PHE:CE2	2:F:127:TRP:CG	2.42	1.03
1:C:1267:ARG:NH2	1:C:1298:GLU:OE2	1.90	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
1:C:1361:LEU:CD2	1:C:1365:TYR:HE2	1.66	1.02
1:A:1605:GLU:HB2	1:B:1580:ASP:OD2	1.58	1.02
1:A:1587:TRP:HH2	1:C:1601:GLN:HG2	1.21	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: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:1456:GLN:O	1:B:1456:GLN:HG2	1.58	1.02
1:C:1326:LYS:O	1:C:1327:PHE:CD1	2.13	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:A:1078:ASN:O	1:A:1102:CYS:CB	2.08	1.02
1:C:1122:LYS:CE	1:C:1147:SER:OG	2.07	1.02
1:C:1078:ASN:HD22	1:C:1101:ARG:HB3	1.23	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1358:TRP:CZ3	1:C:1381:HIS:CD2	2.47	1.02
1:B:1411:TYR:O	1:B:1415:LYS:HB3	1.58	1.02
1:C:1620:ARG:CB	1:C:1620:ARG:HH11	1.73	1.02
1:A:1326:LYS:O	1:A:1327:PHE:CD1	2.13	1.01
1:B:1358:TRP:CE3	1:B:1377:THR:HG23	1.94	1.01
1:B:1358:TRP:CZ3	1:B:1381:HIS:CD2	2.47	1.01
1:A:1079:THR:HG23	1:A:1105:PRO:HD3	1.41	1.01
1:C:1108:TRP:NE1	1:C:1132:ASP:OD1	1.93	1.01
1:C:1361:LEU:HD23	1:C:1361:LEU:O	1.60	1.01
1:A:1620:ARG:HB2	1:A:1620:ARG:HH11	1.23	1.01
1:B:1585:THR:O	1:B:1589:HIS:HB2	1.59	1.01
1:C:1585:THR:O	1:C:1589:HIS:HB2	1.59	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:A:1078:ASN:HD22	1:A:1101:ARG:HB3	1.23	1.01
1:C:1429:ARG:HG2	1:C:1429:ARG:O	1.20	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
1:C:1296:PHE:O	1:C:1299:LEU:N	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:A:1358:TRP:CE3	1:A:1377:THR:HG23	1.94	1.01
2:F:162:GLN:HA	2:F:166:ALA:HB2	1.03	1.01
1:B:1414:PHE:CA	2:D:130:LYS:HD2	1.83	1.01
1:A:1079:THR:CG2	1:A:1105:PRO:CB	2.39	1.01
1:A:1429:ARG:O	1:A:1429:ARG:HG2	1.20	1.01
1:A:1415:LYS:N	2:F:130:LYS:HD3	1.22	1.01
1:A:1620:ARG:CB	1:A:1620:ARG:HH11	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:A:1361:LEU:HD23	1:A:1361:LEU:O	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: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:1411:TYR:HA	1:A: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1296:PHE:O	1:A:1299:LEU:N	1.94	1.00
1:B:1078:ASN:O	1:B:1102:CYS:CB	2.08	1.00
1:A:1361:LEU:CD2	1:A:1365:TYR:HE2	1.66	1.00
1:B:1408:ILE:O	1:B:1412:LEU:N	1.93	1.00
1:A:1148:GLY:HA2	1:A:1150:TRP:CH2	1.97	1.00
1:B:1411:TYR:HA	1:B:1415:LYS:CB	1.91	1.00
1:C:1504:LEU:HD21	2:E:149:ASN:CG	1.82	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:A:1108:TRP:CH2	1:A:1129:ILE:HG22	1.86	1.00
1:C:1408:ILE:O	1:C:1412:LEU:N	1.94	1.00
1:C:1598:TYR:CE2	2:E:199:UNK:CB	2.44	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:1159:MET:C	1:C:1163:LYS:CE	2.30	1.00
1:C:1079:THR:HG23	1:C:1105:PRO:HD3	1.42	1.00
1:A:1358:TRP:CZ2	1:A:1381:HIS:ND1	2.30	1.00
2:F:119:ALA:O	2:F:123:MET:CG	2.08	1.00
1:B:1429:ARG:HG2	1:B:1429:ARG:O	1.20	1.00
1:B:1411:TYR:C	1:B:1415:LYS:HB3	1.82	1.00
1:B:1159:MET:C	1:B:1163:LYS:CE	2.30	1.00
1:A:1159:MET:C	1:A:1163:LYS:CE	2.30	0.99
1:B:1261:VAL:HG22	1:B:1295:TYR:CE2	1.96	0.99
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:A:1261:VAL:HG22	1:A:1295:TYR:CE2	1.96	0.99
1:B:1591:ILE:HG23	1:B:1592:MET:H	1.25	0.99
1:A:1108:TRP:NE1	1:A:1132:ASP:OD1	1.93	0.99
1:C:1108:TRP:CH2	1:C:1129:ILE:HG22	1.86	0.99
1:A:1358:TRP:CD1	2:F:115:GLU:HG2	1.98	0.99
1:B:1358:TRP:CZ2	1:B:1381:HIS:ND1	2.29	0.99
1:A:1411:TYR:C	1:A:1415:LYS:HB3	1.82	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:1358:TRP:HE3	1:C:1377:THR:HG23	1.26	0.99
1:C:1148:GLY:HA2	1:C:1150:TRP:CH2	1.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1598:TYR:HD2	2:E:199:UNK:N	1.53	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:B:1409:GLN:CA	1:B:1413:GLU:CG	2.30	0.99
1:B:1159:MET:CA	1:B:1163:LYS:HE2	1.93	0.99
1:C:1411:TYR:C	1:C:1415:LYS:HB3	1.82	0.98
1:C:1159:MET:CA	1:C:1163:LYS:HE2	1.93	0.98
1:C:1259:ALA:C	1:C:1293:ARG:HH12	1.66	0.98
1:A:1259:ALA:C	1:A:1293:ARG:HH12	1.66	0.98
1:B:1079:THR:HG23	1:B:1105:PRO:HD3	1.41	0.98
1:A:1456:GLN:CG	1:A:1456:GLN:O	1.94	0.98
1:B:1162:LYS:CG	1:B:1163:LYS:HZ1	1.75	0.98
1:A:1591:ILE:O	1:A:1594:PHE:N	1.96	0.98
1:C:1591:ILE:O	1:C:1594:PHE:N	1.96	0.98
1:A:1159:MET:C	1:A:1163:LYS:HE2	1.84	0.98
1:B:1259:ALA:C	1:B:1293:ARG:HH12	1.66	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:B:1108:TRP:CE3	1:B:1129:ILE:HD12	1.99	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:1290:TYR:HB3	1:B:1299:LEU:HD22	1.45	0.98
1:C:1290:TYR:HB3	1:C:1299:LEU:HD22	1.45	0.98
1:A:1079:THR:HG22	1:A:1105:PRO:HG3	1.21	0.98
1:C:1165:ARG:HH21	1:C:1194:ASN:CG	1.67	0.98
1:C:1108:TRP:CZ3	1:C:1129:ILE:HG21	1.98	0.98
1:A:1253:TRP:HE3	1:A:1276:ILE:HG21	1.17	0.97
1:A:1111:LEU:HD22	1:A:1111:LEU:O	1.64	0.97
1:C:1108:TRP:CE3	1:C:1129:ILE:HD12	1.99	0.97
1:A:1165:ARG:HH21	1:A:1194:ASN:CG	1.67	0.97
1:B:1165:ARG:HH21	1:B:1194:ASN:CG	1.67	0.97
1:A:1209:LYS:HB3	1:A:1230:THR:HG22	1.46	0.97
1:C:1301:THR:HA	1:C:1304:GLU:HG3	1.47	0.97
1:C:1111:LEU:HD22	1:C:1111:LEU:O	1.64	0.97
1:A:1159:MET:CA	1:A:1163:LYS:HE2	1.93	0.97
2:F:151:ILE:O	2:F:154:ARG:HB2	1.65	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1601:GLN:HG2	1:B:1587:TRP:HH2	1.18	0.97
1:B:1159:MET:C	1:B:1163:LYS:HE2	1.84	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:B:1209:LYS:HB3	1:B:1230:THR:HG22	1.46	0.97
1:A:1108:TRP:CZ3	1:A:1129:ILE:HG21	1.98	0.97
2:F:195:UNK:C	2:F:197:UNK:CB	2.42	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
1:A:1591:ILE:HG23	1:A:1592:MET:H	1.25	0.96
1:C:1591:ILE:HG23	1:C:1592:MET:H	1.25	0.96
2:D:174:UNK:HA	2:D:177:UNK:N	1.80	0.96
1:A:1232:VAL:HG22	1:A:1233:HIS:H	1.26	0.96
1:A:1395:ILE:HG13	1:A:1404:TYR:CZ	2.01	0.96
1:A:1162:LYS:CG	1:A:1163:LYS:HZ1	1.78	0.96
2:F:162:GLN:CA	2:F:166:ALA:HB2	1.92	0.96
1:B:1371:TYR:CD1	1:B:1394:ILE:CG2	2.33	0.96
1:C:1159:MET:C	1:C:1163:LYS:HE2	1.84	0.96
2:F:162:GLN:CA	2:F:166:ALA:HB3	1.95	0.96
1:B:1368:TYR:CD1	1:B:1370:GLU:HG2	2.00	0.96
2:E:151:ILE:O	2:E:154:ARG:HB2	1.65	0.96
1:B:1602:VAL:HG11	2:D:204:UNK:O	1.66	0.96
1:C:1282:GLU:HG3	1:C:1283:LEU:H	1.29	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: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
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: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:A:1412:LEU:CD1	1:A:1419:LEU:CD2	2.45	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
2:E:202:UNK:O	2:E:203:UNK:C	2.14	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1412:LEU:HB2	1:B:1419:LEU:CD1	1.96	0.95
1:C:1408:ILE:CG2	1:C:1412:LEU:CD2	2.45	0.95
1:C:1371:TYR:HD1	1:C:1394:ILE:HG23	0.79	0.95
1:B:1412:LEU:CD1	1:B:1419:LEU:CD2	2.44	0.95
2:E:133:LYS:HA	2:E:133:LYS:NZ	1.82	0.95
2:D:181:UNK:C	2:D:183:UNK:N	2.20	0.95
1:C:1279:HIS:CD2	1:C:1282:GLU:CB	2.49	0.95
1:A:1372:ASP:O	1:A:1376:ILE:HG13	1.65	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
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
2:E:198:UNK:O	2:E:202:UNK:CB	2.14	0.94
1:A:1584:GLU:OE2	2:E:199:UNK:CB	2.15	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:C:1161:ARG:NH1	1:C:1192:GLY:O	1.99	0.94
2:F:195:UNK:C	2:F:197:UNK:N	2.19	0.94
1:B:1085:LEU:HD23	1:B:1085:LEU:H	1.31	0.94
1:C:1395:ILE:HG13	1:C:1404:TYR:CZ	2.01	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:A:1111:LEU:HD11	1:A:1125:ILE:CG1	1.97	0.94
1:B:1293:ARG:CA	2:D:97:GLN:OE1	2.15	0.94
2:F:133:LYS:HA	2:F:133:LYS:NZ	1.82	0.94
1:A:1444:GLN:CG	2:F:134:ASP:CB	2.46	0.94
1:B:1504:LEU:HD21	2:D:152:ASN:CB	1.94	0.94
1:A:1592:MET:SD	1:A:1593:ASP:N	2.39	0.94
1:A:1472:ILE:HA	1:A:1507:PHE:HE1	1.30	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:B:1592:MET:SD	1:B:1593:ASP:N	2.39	0.94
1:A:1412:LEU:HB2	1:A:1419:LEU:CD1	1.96	0.94
1:A:1161:ARG:NH1	1:A:1192:GLY:O	1.99	0.94
2:E:104:LYS:O	2:E:108:GLU:HG2	1.66	0.94
1:C:1181:ASN:O	1:C:1185:GLU:CD	2.06	0.94
1:C:1592:MET:CE	1:C:1593:ASP:N	2.31	0.94
1:B:1408:ILE:CG2	1:B:1412:LEU:CD2	2.45	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1372:ASP:O	1:C:1376:ILE:HG13	1.65	0.94
1:A:1159:MET:O	1:A:1163:LYS:HD3	1.67	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:1181:ASN:O	1:B:1185:GLU:CD	2.06	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:1181:ASN:O	1:A:1185:GLU:CD	2.06	0.94
1:B:1221:VAL:CG1	1:B:1222:SER:N	2.30	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:B:1292:ASP:C	2:D:97:GLN:OE1	2.05	0.93
1:C:1282:GLU:O	1:C:1283:LEU:HB2	1.66	0.93
1:A:1362:VAL:HG22	1:A:1377:THR:CB	1.98	0.93
1:B:1414:PHE:HA	2:D:130:LYS:HD2	0.96	0.93
1:A:1333:ARG:HB2	1:A:1360:GLU:OE2	1.69	0.93
1:B:1592:MET:CE	1:B:1593:ASP:N	2.31	0.93
1:C:1085:LEU:H	1:C:1085:LEU:HD23	1.31	0.93
1:A:1444:GLN:HE22	2:F:131:ALA:HA	1.32	0.93
1:A:1221:VAL:CG1	1:A:1222:SER:N	2.30	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:C:1362:VAL:HG22	1:C:1377:THR:CB	1.98	0.93
1:B:1450:PRO:HA	1:B:1453:ARG:HG2	1.50	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:1145:ASN:O	1:A:1150:TRP:CZ2	2.22	0.93
1:C:1290:TYR:HD2	1:C:1299:LEU:HD13	1.02	0.93
1:A:1085:LEU:H	1:A:1085:LEU:HD23	1.31	0.93
1:C:1079:THR:CG2	1:C:1105:PRO:CB	2.39	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
2:F:133:LYS:HA	2:F:133:LYS:HZ1	1.32	0.93
1:C:1145:ASN:O	1:C:1150:TRP:CZ2	2.22	0.93
1:A:1563:ARG:HH22	2:F:182:UNK:H	0.93	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1079:THR:HG23	1:B:1105:PRO:CD	1.99	0.92
1:C:1111:LEU:HD11	1:C:1125:ILE:CG1	1.97	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:1395:ILE:HG12	1:C:1404:TYR:CE2	2.02	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:C:1244:ALA:HB3	1:C:1275:HIS:ND1	1.83	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: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
1:B:1188:GLU:HA	1:B:1191:ASN:ND2	1.85	0.92
2:D:174:UNK:N	2:D:175:UNK:CB	2.32	0.92
1:C:1253:TRP:HZ3	1:C:1276:ILE:HG22	1.30	0.92
1:C:1333:ARG:HB2	1:C:1360:GLU:OE2	1.69	0.92
1:B:1282:GLU:O	1:B:1283:LEU:HB2	1.66	0.92
1:A:1601:GLN:HG2	1:B:1587:TRP:CZ2	2.03	0.92
2:D:112:ARG:O	2:D:113:LEU:O	1.86	0.92
1:A:1450:PRO:HA	1:A:1453:ARG:HG2	1.51	0.92
1:A:1620:ARG:CG	1:A:1620:ARG:HH11	1.82	0.92
1:C:1221:VAL:CG1	1:C:1222:SER:N	2.30	0.92
1:B:1303:LEU:HD12	1:B:1320:LEU:HD13	1.52	0.92
1:B:1244:ALA:HB3	1:B:1275:HIS:ND1	1.83	0.92
1:A:1079:THR:C	1:A:1105:PRO:HG3	1.90	0.92
1:B:1145:ASN:O	1:B:1150:TRP:CZ2	2.22	0.92
1:A:1620:ARG:NH1	1:A:1620:ARG:HB2	1.85	0.92
1:A:1079:THR:HG23	1:A:1105:PRO:CD	1.99	0.92
1:C:1079:THR:C	1:C:1105:PRO:HG3	1.90	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:1585:THR:O	1:A:1589:HIS:CB	2.18	0.92
1:B:1079:THR:C	1:B:1105:PRO:HG3	1.90	0.92
1:A:1395:ILE:HG12	1:A:1404:TYR:CE2	2.02	0.92
1:B:1620:ARG:CG	1:B:1620:ARG:HH11	1.81	0.92
1:B:1411:TYR:O	1:B:1415:LYS:CA	2.18	0.92
1:C:1264:LYS:HE2	1:C:1268:LEU:HB2	1.52	0.91
1:C:1079:THR:HG23	1:C:1105:PRO:CD	1.99	0.91
1:C:1596:MET:N	1:C:1597:PRO:HD2	1.85	0.91
1:B:1444:GLN:HG2	2:D:134:ASP:CB	1.99	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:1262:ASP:HB3	1:C:1293:ARG:CZ	1.99	0.91
1:A:1411:TYR:O	1:A:1415:LYS:CA	2.18	0.91
2:E:98:GLU:HA	2:E:101:SER:HB3	1.52	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
1:C:1109:SER:CB	1:C:1135:SER:HB3	1.99	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:1188:GLU:HA	1:A:1191:ASN:ND2	1.84	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: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
1:C:1391:PHE:CG	1:C:1411:TYR:OH	2.22	0.91
1:B:1224:PHE:O	1:B:1227:LEU:HB3	1.71	0.91
1:B:1109:SER:CB	1:B:1135:SER:HB3	1.99	0.91
1:A:1244:ALA:HB3	1:A:1275:HIS:ND1	1.83	0.91
1:B:1585:THR:O	1:B:1589:HIS:CB	2.18	0.91
1:A:1409:GLN:CB	1:A:1413:GLU:HG3	2.00	0.91
1:C:1253:TRP:HE3	1:C:1276:ILE:HG21	1.17	0.90
1:C:1620:ARG:CG	1:C:1620:ARG:HH11	1.81	0.90
1:C:1371:TYR:CD1	1:C:1394:ILE:CG2	2.33	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: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:B:1620:ARG:NH1	1:B:1620:ARG:HB2	1.85	0.90
1:A:1264:LYS:HE2	1:A:1268:LEU:HB2	1.52	0.90
1:C:1585:THR:O	1:C:1589:HIS:CB	2.18	0.90
1:B:1166:GLU:HG3	1:B:1168:TYR:CE1	2.06	0.90
1:A:1505:ILE:HD11	2:F:153:ASN:HD22	1.14	0.90
1:A:1166:GLU:HG3	1:A:1168:TYR:CE1	2.06	0.90
1:C:1492:ASN:O	1:C:1493:ILE:HG12	1.72	0.90
1:A:1224:PHE:O	1:A:1227:LEU:HB3	1.71	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:1566:PHE:CZ	2:F:180:UNK:CB	2.55	0.90
1:A:1492:ASN:O	1:A:1493:ILE:HG12	1.72	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:B:1154:VAL:CG2	1:B:1180:THR:HG21	2.02	0.90
1:C:1224:PHE:O	1:C:1227:LEU:HB3	1.71	0.90
2:E:202:UNK:C	2:E:203:UNK:C	2.50	0.90
1:A:1391:PHE:CG	1:A:1411:TYR:OH	2.22	0.90
1:C:1598:TYR:CD2	2:E:198:UNK:CB	2.55	0.90
1:B:1412:LEU:HA	1:B:1419:LEU:HD22	1.54	0.90
2:E:126:GLU:HG3	2:E:130:LYS:HZ1	1.37	0.90
1:C:1170:GLU:CD	1:C:1195:ASN:O	2.11	0.90
1:A:1290:TYR:HD2	1:A:1299:LEU:CD1	1.85	0.89
1:A:1154:VAL:CG2	1:A:1180:THR:HG21	2.02	0.89
1:B:1218:TYR:HA	1:B:1221:VAL:HG12	1.54	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:C:1253:TRP:O	1:C:1289:TYR:HE2	1.55	0.89
1:B:1596:MET:N	1:B:1597:PRO:HD2	1.86	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:C:1602:VAL:HG22	2:E:203:UNK:CA	2.01	0.89
1:B:1425:VAL:HG23	1:B:1426:LEU:H	1.37	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:1412:LEU:HB2	1:C:1419:LEU:HD11	1.53	0.89
1:C:1130:LYS:CD	1:C:1156:TYR:CE1	2.55	0.89
1:A:1333:ARG:HB2	1:A:1360:GLU:CG	2.03	0.89
1:C:1584:GLU:HG3	1:C:1587:TRP:CE3	2.07	0.89
1:C:1412:LEU:HD13	1:C:1419:LEU:CD2	2.01	0.89
1:B:1253:TRP:HZ3	1:B:1276:ILE:HG22	1.30	0.89
1:A:1411:TYR:O	1:A:1415:LYS:CB	2.20	0.89
1:A:1412:LEU:HA	1:A:1419:LEU:HD22	1.53	0.89
1:A:1412:LEU:HB2	1:A:1419:LEU:HD11	1.53	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1104:GLU:HB2	1:B:1108:TRP:HZ2	1.38	0.89
2:D:112:ARG:O	2:D:112:ARG:CD	2.21	0.89
1:B:1521:TRP:HE3	1:B:1522:LYS:HD2	1.31	0.89
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
1:A:1414:PHE:CD2	2:F:127:TRP:CE3	2.60	0.88
1:A:1161:ARG:NE	1:A:1165:ARG:HD2	1.89	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
1:C:1505:ILE:HA	1:C:1508:ARG:HB2	1.55	0.88
1:C:1333:ARG:HB2	1:C:1360:GLU:CG	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:A:1408:ILE:CG2	1:A:1412:LEU:HD23	2.03	0.88
1:C:1425:VAL:HG23	1:C:1426:LEU:H	1.37	0.88
1:A:1170:GLU:CD	1:A:1195:ASN:O	2.11	0.88
1:C:1597:PRO:HG3	1:C:1600:ILE:HD12	1.54	0.88
1:B:1509:ARG:NH1	2:D:166:ALA:N	2.20	0.88
1:A:1521:TRP:HE3	1:A:1522:LYS:HD2	1.31	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:1504:LEU:CD1	2:F:149:ASN:O	2.21	0.88
1:A:1382:PRO:HB3	2:F:123:MET:HE1	1.55	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:1159:MET:HA	1:A:1163:LYS:CE	2.03	0.88
1:A:1521:TRP:HZ3	1:A:1522:LYS:HZ2	0.89	0.88
1:A:1414:PHE:CD2	2:F:127:TRP:CD2	2.61	0.88
1:B:1170:GLU:CD	1:B:1195:ASN:O	2.11	0.88
1:B:1597:PRO:HG3	1:B:1600:ILE:HD12	1.54	0.88
1:A:1409:GLN:CB	1:A:1413:GLU:CG	2.52	0.88
1:C:1161:ARG:NE	1:C:1165:ARG:HD2	1.88	0.88
1:B:1159:MET:HA	1:B:1163:LYS:CE	2.03	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:C:1104:GLU:HB2	1:C:1108:TRP:CH2	2.09	0.88
1:B:1505:ILE:HA	1:B:1508:ARG:HB2	1.55	0.88
1:A:1472:ILE:HG21	1:A:1498:ARG:HE	1.39	0.87
1:A:1596:MET:N	1:A:1597:PRO:HD2	1.86	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:114:GLN:HG3	2:F:115:GLU:H	0.72	0.87
1:C:1409:GLN:CB	1:C:1413:GLU:CG	2.52	0.87
1:B:1232:VAL:C	1:B:1234:LEU:H	1.78	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:B:1264:LYS:HE2	1:B:1268:LEU:CB	2.05	0.87
1:A:1104:GLU:HB2	1:A:1108:TRP:HZ2	1.38	0.87
1:B:1444:GLN:CG	2:D:134:ASP:CB	2.52	0.87
1:A:1580:ASP:OD1	1:C:1605:GLU:CB	2.22	0.87
1:A:1492:ASN:O	1:A:1493:ILE:CD1	2.21	0.87
1:C:1264:LYS:HE3	1:C:1268:LEU:HD12	0.88	0.87
1:A:1264:LYS:HE2	1:A:1268:LEU:CB	2.05	0.87
1:C:1586:ALA:HA	1:C:1590:ASN:OD1	1.73	0.87
1:C:1592:MET:SD	1:C:1592:MET:C	2.53	0.87
1:A:1412:LEU:HD13	1:A:1419:LEU:CD2	2.01	0.87
1:C:1290:TYR:HD2	1:C:1299:LEU:CD1	1.85	0.87
1:A:1264:LYS:HE3	1:A:1268:LEU:HD12	0.88	0.87
1:C:1591:ILE:HG23	1:C:1592:MET:N	1.89	0.87
1:B:1361:LEU:HD23	1:B:1365:TYR:CE2	2.10	0.87
1:C:1408:ILE:CG2	1:C:1412:LEU:HD23	2.03	0.87
1:B:1165:ARG:HD2	1:B:1170:GLU:OE1	1.75	0.87
1:C:1154:VAL:CG2	1:C:1180:THR:HG21	2.02	0.87
2:D:185:UNK:HA	2:D:189:UNK:C	2.03	0.87
1:C:1598:TYR:CD2	2:E:199:UNK:CA	2.56	0.87
1:B:1409:GLN:CB	1:B:1413:GLU:CG	2.52	0.87
1:B:1409:GLN:CG	1:B:1413:GLU:CG	2.30	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:1293:ARG:HA	2:D:96:THR:CG2	2.04	0.87
1:C:1361:LEU:HD23	1:C:1365:TYR:CE2	2.09	0.87
1:A:1408:ILE:HG21	1:A:1412:LEU:CD2	2.05	0.87
1:B:1508:ARG:NH2	1:B:1530:LYS:HD3	1.90	0.87
1:C:1508:ARG:NH2	1:C:1530:LYS:HD3	1.90	0.87
1:C:1472:ILE:HG21	1:C:1498:ARG:HE	1.39	0.87
1:B:1159:MET:CA	1:B:1163:LYS:CE	2.52	0.87
1:A:1357:LEU:HD23	2:F:111:LYS:CE	2.00	0.86
1:B:1264:LYS:HE3	1:B:1268:LEU:HD12	0.88	0.86
1:A:1104:GLU:HB2	1:A:1108:TRP:CH2	2.08	0.86
1:A:1356:HIS:HB3	2:F:112:ARG:HH22	1.39	0.86
1:A:1165:ARG:HD2	1:A:1170:GLU:OE1	1.75	0.86
1:B:1591:ILE:HG23	1:B:1592:MET:N	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:D:114:GLN:HG3	2:D:115:GLU:H	0.72	0.86
1:C:1082:VAL:HG13	1:C:1083:GLN:H	1.39	0.86
1:A:1345:ILE:H	1:A:1346:PRO:HD2	1.40	0.86
2:E:126:GLU:HG3	2:E:130:LYS:NZ	1.90	0.86
1:A:1629:THR:HG22	1:A:1629:THR:O	1.75	0.86
1:B:1253:TRP:O	1:B:1289:TYR:HE2	1.55	0.86
1:A:1361:LEU:HD23	1:A:1365:TYR:CE2	2.10	0.86
1:C:1159:MET:CA	1:C:1163:LYS:CE	2.52	0.86
1:B:1082:VAL:HG13	1:B:1083:GLN:H	1.39	0.86
1:A:1130:LYS:CD	1:A:1156:TYR:CE1	2.55	0.86
1:C:1521:TRP:HZ3	1:C:1522:LYS:HZ2	0.88	0.86
1:C:1252:THR:O	1:C:1256:VAL:HG23	1.75	0.86
1:A:1260:CYS:O	1:A:1263:GLY:O	1.93	0.86
1:C:1492:ASN:O	1:C:1493:ILE:CG1	2.24	0.86
1:B:1109:SER:HB2	1:B:1135:SER:CB	2.06	0.86
1:C:1598:TYR:CZ	2:E:199:UNK:CB	2.58	0.86
1:A:1109:SER:HB2	1:A:1135:SER:CB	2.06	0.86
1:C:1317:PHE:H	1:C:1317:PHE:HD2	1.24	0.86
1:B:1629:THR:HG22	1:B:1629:THR:O	1.75	0.86
1:C:1260:CYS:O	1:C:1263:GLY:O	1.93	0.86
1:A:1252:THR:O	1:A:1256:VAL:HG23	1.75	0.86
1:B:1252:THR:O	1:B:1256:VAL:HG23	1.75	0.86
1:A:1592:MET:C	1:A:1592:MET:SD	2.53	0.86
1:A:1401:VAL:HG22	1:A:1429:ARG:HE	1.40	0.86
2:F:126:GLU:HG3	2:F:130:LYS:NZ	1.90	0.86
1:B:1401:VAL:HG22	1:B:1429:ARG:HE	1.41	0.86
1:B:1130:LYS:CD	1:B:1156:TYR:CE1	2.55	0.86
1:C:1165:ARG:HD2	1:C:1170:GLU:OE1	1.75	0.86
1:A:1465:GLU:CD	1:A:1465:GLU:O	2.15	0.86
1:C:1264:LYS:HE2	1:C:1268:LEU:CB	2.05	0.86
1:C:1598:TYR:CE2	2:E:199:UNK:CA	2.59	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:1345:ILE:H	1:C:1346:PRO:HD2	1.40	0.86
1:C:1586:ALA:CB	1:C:1590:ASN:HD21	1.88	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:A:1218:TYR:HA	1:A:1221:VAL:HG12	1.54	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1274:LEU:H	1:C:1274:LEU:HD12	1.41	0.85
1:B:1292:ASP:HB3	2:D:97:GLN:CG	2.06	0.85
1:A:1591:ILE:HG23	1:A:1592:MET:N	1.89	0.85
1:A:1079:THR:HA	1:A:1102:CYS:HB3	1.58	0.85
1:B:1472:ILE:HB	1:B:1498:ARG:HH21	1.41	0.85
1:B:1504:LEU:HG	2:D:149:ASN:C	1.97	0.85
1:B:1166:GLU:HG2	1:B:1167:SER:N	1.91	0.85
1:B:1465:GLU:CD	1:B:1465:GLU:O	2.14	0.85
1:A:1274:LEU:HD12	1:A:1274:LEU:H	1.41	0.85
1:B:1269:ALA:HB3	1:B:1295:TYR:OH	1.76	0.85
1:B:1592:MET:C	1:B:1592:MET:SD	2.53	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:C:1465:GLU:CD	1:C:1465:GLU:O	2.14	0.85
1:C:1269:ALA:HB3	1:C:1295:TYR:OH	1.76	0.85
1:A:1439:PHE:O	1:A:1442:VAL:HB	1.77	0.85
1:B:1362:VAL:HG22	1:B:1377:THR:HB	1.56	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: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
2:F:194:UNK:O	2:F:197:UNK: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:A:1474:GLU:O	2:F:145:GLN:CB	2.24	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
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
2:F:142:GLN:O	2:F:146:VAL:HG13	1.76	0.85
1:C:1419:LEU:O	1:C:1422:LEU:CB	2.24	0.85
1:A:1166:GLU:HG2	1:A:1167:SER:N	1.91	0.85
1:B:1586:ALA:CB	1:B:1590:ASN:HD21	1.88	0.85
1:B:1079:THR:HA	1:B:1102:CYS:HB3	1.58	0.85
2:F:148:LYS:O	2:F:151:ILE:HG12	1.76	0.85
1:A:1492:ASN:O	1:A:1493:ILE:CG1	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1232:VAL:C	1:A:1234:LEU:H	1.78	0.85
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:1166:GLU:HG3	1:B:1168:TYR:CZ	2.12	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:C:1079:THR:HA	1:C:1102:CYS:HB3	1.58	0.84
1:B:1412:LEU:HD13	1:B:1419:LEU:CD2	2.01	0.84
1:A:1521:TRP:HZ3	1:A:1522:LYS:NZ	1.74	0.84
1:C:1166:GLU:HG3	1:C:1168:TYR:CZ	2.12	0.84
1:A:1430:LEU:HG	1:A:1432:HIS:H	1.42	0.84
1:B:1332:MET:SD	1:B:1360:GLU:HG2	2.17	0.84
1:A:1598:TYR:OH	1:B:1588:ARG:CD	2.25	0.84
1:A:1166:GLU:HG3	1:A:1168:TYR:CZ	2.12	0.84
1:C:1629:THR:O	1:C:1629:THR:HG22	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:B:1274:LEU:HD12	1:B:1274:LEU:H	1.41	0.84
1:A:1586:ALA:CB	1:A:1590:ASN:HD21	1.88	0.84
1:B:1439:PHE:O	1:B:1442:VAL:HB	1.76	0.84
1:B:1145:ASN:ND2	1:B:1150:TRP:NE1	2.24	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:C:1358:TRP:CZ3	1:C:1381:HIS:CE1	2.64	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: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:C:1166:GLU:HG2	1:C:1167:SER:N	1.91	0.84
1:B:1521:TRP:HZ3	1:B:1522:LYS:HZ2	0.88	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:C:1282:GLU:HG3	1:C:1283:LEU:N	1.92	0.84
1:A:1412:LEU:HD12	1:A:1419:LEU:CD2	2.08	0.84
1:C:1161:ARG:HH21	1:C:1170:GLU:CG	1.91	0.84
1:B:1159:MET:O	1:B:1163:LYS:HE2	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1192:GLY:N	1:B:1193:PRO:HD3	1.92	0.84
1:A:1362:VAL:HG22	1:A:1377:THR:HB	1.56	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:1181:ASN:O	1:A:1181:ASN:OD1	1.96	0.83
1:A:1387:LYS:HB2	1:A:1390:GLN:HB2	1.59	0.83
1:C:1332:MET:SD	1:C:1360:GLU:HG2	2.17	0.83
1:C:1104:GLU:HB2	1:C:1108:TRP:HZ2	1.38	0.83
1:A:1427:SER:CB	1:A:1428:PRO:CD	2.42	0.83
1:B:1404:TYR:O	1:B:1407:ALA:HB3	1.78	0.83
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:1159:MET:O	1:C:1163:LYS:HE2	1.77	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
2:F:195:UNK:O	2:F:197:UNK:CB	2.27	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:A:1159:MET:O	1:A:1163:LYS:HE2	1.77	0.83
1:C:1521:TRP:HZ3	1:C:1522:LYS:NZ	1.74	0.83
1:B:1079:THR:HG23	1:B:1105:PRO:CG	2.08	0.83
1:C:1181:ASN:OD1	1:C:1181:ASN:O	1.96	0.83
1:C:1109:SER:HB2	1:C:1135:SER:CB	2.06	0.83
1:A:1209:LYS:HB2	1:A:1231:LEU:HB3	1.61	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:C:1387:LYS:HB2	1:C:1390:GLN:HB2	1.59	0.83
1:B:1430:LEU:HG	1:B:1432:HIS:H	1.42	0.83
1:C:1325:SER:O	1:C:1355:ALA:HB1	1.77	0.83
1:B:1325:SER:O	1:B:1355:ALA:HB1	1.77	0.83
1:A:1358:TRP:HH2	1:A:1381:HIS:CE1	1.95	0.83
1:C:1445:LEU:N	1:C:1446:PRO:HD2	1.94	0.83
1:B:1279:HIS:HB2	1:B:1282:GLU:HB3	1.60	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:C:1605:GLU:HA	1:C:1608:THR:CB	2.09	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:B:1444:GLN:CD	2:D:134:ASP:OD2	2.17	0.83
1:C:1448:VAL:HB	1:C:1451:TYR:CD2	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:105:TRP:O	2:E:108:GLU:HG3	1.79	0.83
1:C:1209:LYS:HB2	1:C:1231:LEU:HB3	1.61	0.83
2:E:90:ALA:H	2:E:91:GLN:CB	1.92	0.83
1:A:1253:TRP:O	1:A:1289:TYR:HE2	1.56	0.83
1:B:1597:PRO:HB2	1:C:1587:TRP:CZ3	2.13	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:C:1405:TYR:CG	1:C:1434:ARG:NH1	2.47	0.83
1:B:1387:LYS:HB2	1:B:1390:GLN:HB2	1.59	0.83
2:D:112:ARG:C	2:D:112:ARG:CD	2.38	0.82
1:C:1404:TYR:O	1:C:1407:ALA:HB3	1.78	0.82
1:B:1181:ASN:O	1:B:1181:ASN:OD1	1.96	0.82
1:C:1232:VAL:C	1:C:1234:LEU:H	1.78	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:B:1161:ARG:HH21	1:B:1170:GLU:CG	1.91	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:1130:LYS:HE2	1:A:1156:TYR:HA	1.62	0.82
1:A:1420:ASN:OD1	1:A:1447:LEU:HD22	1.78	0.82
1:C:1438:TYR:O	1:C:1442:VAL:HG23	1.79	0.82
1:B:1161:ARG:HH21	1:B:1170:GLU:HG3	1.44	0.82
1:A:1605:GLU:HA	1:A:1608:THR:CB	2.09	0.82
1:B:1605:GLU:HA	1:B:1608:THR:CB	2.09	0.82
1:B:1332:MET:HE2	1:B:1357:LEU:HD13	1.62	0.82
1:B:1122:LYS:HG3	1:B:1123:GLU:H	1.43	0.82
2:D:180:UNK:C	2:D:183:UNK:CA	2.57	0.82
1:A:1192:GLY:N	1:A:1193:PRO:HD3	1.92	0.82
1:C:1430:LEU:HG	1:C:1432:HIS:H	1.42	0.82
1:A:1317:PHE:HD2	1:A:1317:PHE:H	1.24	0.82
1:C:1332:MET:HE2	1:C:1357:LEU:HD13	1.58	0.82
1:C:1408:ILE:HG21	1:C:1412:LEU:HD23	1.60	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:C:1412:LEU:HD12	1:C:1419:LEU:CD2	2.08	0.82
1:C:1401:VAL:HG22	1:C:1429:ARG:NE	1.93	0.82
1:C:1161:ARG:HH21	1:C:1170:GLU:HG3	1.44	0.82
1:A:1279:HIS:HB2	1:A:1282:GLU:HB3	1.60	0.82
1:B:1259:ALA:C	1:B:1293:ARG:NH1	2.32	0.82
1:C:1411:TYR:O	1:C:1415:LYS:N	2.12	0.82
1:A:1605:GLU:CD	1:B:1580:ASP:OD2	2.18	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:C:1264:LYS:HE2	1:C:1268:LEU:CG	2.08	0.82
1:A:1261:VAL:HG22	1:A:1295:TYR:HE2	1.45	0.82
1:A:1332:MET:HE2	1:A:1357:LEU:HD13	1.62	0.82
1:B:1577:LEU:O	1:B:1579:PRO:HD3	1.80	0.82
1:B:1130:LYS:HE2	1:B:1156:TYR:HA	1.61	0.82
1:C:1130:LYS:CD	1:C:1156:TYR:CD1	2.62	0.82
2:D:155:ILE:H	2:D:155:ILE:HD13	1.45	0.82
1:C:1259:ALA:C	1:C:1293:ARG:NH1	2.32	0.81
1:A:1259:ALA:C	1:A:1293:ARG:NH1	2.32	0.81
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:C:1505:ILE:HD13	1:C:1505:ILE:H	1.45	0.81
1:C:1279:HIS:CD2	1:C:1282:GLU:C	2.54	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: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:B:1206:TYR:O	1:B: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
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:C:1122:LYS:HG3	1:C:1123:GLU:H	1.43	0.81
1:A:1474:GLU:O	2:F:145:GLN:CG	2.28	0.81
1:B:1438:TYR:O	1:B:1442:VAL:HG23	1.79	0.81
1:C:1165:ARG:HH21	1:C:1194:ASN:ND2	1.79	0.81
1:A:1605:GLU:HG3	1:B:1580:ASP:OD2	1.79	0.81
1:A:1206:TYR:O	1:A:1230:THR:HG21	1.80	0.81
1:C:1279:HIS:HB2	1:C:1282:GLU:HB3	1.60	0.81
1:B:1279:HIS:CD2	1:B:1282:GLU:C	2.54	0.81
2:E:203:UNK:C	2:E:203:UNK:N	2.42	0.81
1:A:1148:GLY:HA2	1:A:1150:TRP:CE3	2.14	0.81
1:C:1148:GLY:HA2	1:C:1150:TRP:CE3	2.14	0.81
1:C:1492:ASN:O	1:C:1493:ILE:HD13	1.80	0.81
1:A:1279:HIS:CD2	1:A:1282:GLU:C	2.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1326:LYS:O	1:C:1327:PHE:CG	2.33	0.81
1:B:1292:ASP:CA	2:D:97:GLN:C	2.47	0.81
1:A:1122:LYS:HG3	1:A:1123:GLU:H	1.43	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:B:1165:ARG:HH21	1:B:1194:ASN:ND2	1.79	0.81
1:A:1161:ARG:HH21	1:A:1170:GLU:HG3	1.44	0.81
1:A:1605:GLU:CB	1:B:1580:ASP:CG	2.44	0.81
1:B:1583:LEU:O	1:B:1587:TRP:NE1	2.14	0.81
1:C:1122:LYS:O	1:C:1126:ASP:HB2	1.79	0.81
1:C:1122:LYS:NZ	1:C:1147:SER:CB	2.43	0.81
1:A:1387:LYS:CB	1:A:1390:GLN:HB2	2.10	0.81
1:B:1362:VAL:HG22	1:B:1377:THR:CG2	2.11	0.81
1:A:1166:GLU:O	1:A:1170:GLU:CB	2.28	0.81
1:A:1408:ILE:HG23	1:A:1412:LEU:HB2	1.63	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:B:1166:GLU:O	1:B:1170:GLU:CB	2.29	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:B:1387:LYS:CB	1:B:1390:GLN:HB2	2.10	0.81
1:A:1626:ALA:O	1:A:1630:GLN:HG3	1.81	0.81
1:A:1586:ALA:O	1:A:1591:ILE:N	2.14	0.81
1:C:1358:TRP:HH2	1:C:1381:HIS:CE1	1.95	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:B:1091:ASN:ND2	1:B:1092:LEU:HG	1.95	0.81
1:C:1079:THR:HG23	1:C:1105:PRO:CG	2.07	0.80
1:A:1358:TRP:CE3	1:A:1381:HIS:CD2	2.69	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: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:C:1130:LYS:HE2	1:C:1156:TYR:HA	1.62	0.80
1:A:1113:LYS:N	1:A:1139:GLU:OE2	2.14	0.80
1:B:1431:ASP:O	1:B:1433:THR:N	2.14	0.80
1:B:1626:ALA:O	1:B:1630:GLN:HG3	1.81	0.80
1:A:1539:GLN:HE22	2:F:177:UNK:CB	1.92	0.80
1:A:1395:ILE:HG12	1:A:1404:TYR:CD2	2.15	0.80
1:A:1382:PRO:HG2	2:F:123:MET:HE3	0.81	0.80
1:C:1166:GLU:O	1:C:1170:GLU:HG2	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1492:ASN:O	1:B:1493:ILE:HD13	1.80	0.80
1:A:1091:ASN:ND2	1:A:1092:LEU:HG	1.95	0.80
1:B:1326:LYS:O	1:B:1327:PHE:CG	2.33	0.80
1:B:1122:LYS:O	1:B:1126:ASP:HB2	1.79	0.80
1:A:1122:LYS:NZ	1:A:1147:SER:CB	2.43	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:1361:LEU:HD21	1:B:1365:TYR:CZ	2.15	0.80
1:B:1356:HIS:CD2	2:D:112:ARG:HE	2.00	0.80
1:A:1445:LEU:N	1:A:1446:PRO:HD2	1.94	0.80
1:C:1167:SER:O	1:C:1171:THR:CA	2.28	0.80
2:E:90:ALA:H	2:E:91:GLN:CA	1.94	0.80
1:C:1091:ASN:ND2	1:C:1092:LEU:HG	1.95	0.80
1:C:1336:LEU:HD13	1:C:1364:LEU:HD21	1.62	0.80
1:A:1414:PHE:HB2	2:F:130:LYS:NZ	1.97	0.80
1:B:1405:TYR:CG	1:B:1434:ARG:NH1	2.47	0.80
1:B:1130:LYS:CD	1:B:1156:TYR:CD1	2.62	0.80
1:B:1113:LYS:N	1:B:1139:GLU:OE2	2.14	0.80
1:B:1538:MET:HE3	1:B:1566:PHE:HB3	1.63	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
2:F:180:UNK:O	2:F:182:UNK:N	2.15	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
1:C:1206:TYR:O	1:C:1230:THR:HG21	1.80	0.80
1:B:1082:VAL:HG13	1:B:1083:GLN:N	1.97	0.80
1:C:1113:LYS:N	1:C:1139:GLU:OE2	2.14	0.80
1:B:1277:VAL:HG23	1:B:1278:VAL:H	1.47	0.80
1:A:1414:PHE:CB	2:F:130:LYS:NZ	2.45	0.80
1:B:1395:ILE:HG12	1:B:1404:TYR:CD2	2.15	0.80
1:B:1166:GLU:O	1:B:1170:GLU:HG2	1.81	0.80
1:C:1494:SER:HA	1:C:1497:GLN:CD	2.02	0.80
1:A:1601:GLN:CB	1:B:1587:TRP:CH2	2.62	0.80
1:C:1586:ALA:O	1:C:1591:ILE:N	2.14	0.80
1:A:1167:SER:O	1:A:1171:THR:CA	2.28	0.80
1:A:1621:LYS:O	1:A:1625:GLN:HG3	1.82	0.80
1:A:1431:ASP:O	1:A:1433:THR:N	2.14	0.80
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1358:TRP:O	1:A:1362:VAL:CG2	2.29	0.79
1:C:1122:LYS:CE	1:C:1147:SER:CB	2.60	0.79
1:A:1362:VAL:HG22	1:A:1377:THR:CG2	2.11	0.79
1:A:1161:ARG:HA	1:A:1165:ARG:CA	2.10	0.79
1:B:1159:MET:O	1:B:1163:LYS:CD	2.30	0.79
1:A:1492:ASN:O	1:A:1493:ILE:HD13	1.80	0.79
1:A:1253:TRP:C	1:A:1255:GLU:H	1.85	0.79
1:A:1538:MET:HE3	1:A:1566:PHE:HB3	1.63	0.79
1:C:1358:TRP:CE3	1:C:1381:HIS:CD2	2.69	0.79
1:B:1514:LEU:O	1:B:1514:LEU:HD23	1.82	0.79
1:C:1358:TRP:O	1:C:1362:VAL:CG2	2.30	0.79
1:B:1412:LEU:CA	1:B:1419:LEU:HD13	2.13	0.79
2:E:127:TRP:HA	2:E:130:LYS:HE3	1.65	0.79
1:C:1514:LEU:HD23	1:C:1514:LEU:O	1.82	0.79
1:A:1270:GLN:OE1	1:A:1298:GLU:HB3	1.83	0.79
1:C:1566:PHE:CZ	2:E:178:UNK:HA	2.16	0.79
1:B:1122:LYS:CE	1:B:1147:SER:CB	2.60	0.79
1:A:1085:LEU:O	1:A:1086:ILE:O	2.01	0.79
1:C:1082:VAL:HG13	1:C:1083:GLN:N	1.97	0.79
1:C:1361:LEU:HD21	1:C:1365:TYR:CZ	2.16	0.79
1:A:1494:SER:HA	1:A:1497:GLN:CD	2.02	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:A:1412:LEU:CA	1:A:1419:LEU:HD13	2.13	0.79
1:C:1192:GLY:N	1:C:1193:PRO:CD	2.45	0.79
1:A:1605:GLU:CA	1:A:1608:THR:HB	2.12	0.79
1:C:1159:MET:O	1:C:1163:LYS:CD	2.30	0.79
1:B:1234:LEU:HG	1:B:1235:GLY:H	1.48	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
2:D:126:GLU:O	2:D:129:GLU:HG2	1.81	0.79
1:A:1159:MET:O	1:A:1163:LYS:CD	2.30	0.79
1:C:1626:ALA:O	1:C:1630:GLN:HG3	1.81	0.79
1:B:1253:TRP:C	1:B:1255:GLU:H	1.86	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:A:1357:LEU:HD21	2:F:111:LYS:HE3	1.41	0.79
1:B:1270:GLN:OE1	1:B:1298:GLU:HB3	1.83	0.79
2:F:126:GLU:O	2:F:129:GLU:HG2	1.81	0.79
1:C:1412:LEU:CA	1:C:1419:LEU:HD13	2.13	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:B:1158:GLN:HG2	1:B:1159:MET:SD	2.23	0.79
1:B:1621:LYS:O	1:B:1625:GLN:HG3	1.82	0.79
1:C:1598:TYR:HD2	2:E:198:UNK:CB	1.95	0.79
1:C:1079:THR:O	1:C:1079:THR:HG22	1.83	0.79
1:B:1192:GLY:N	1:B:1193:PRO:CD	2.45	0.79
1:A:1192:GLY:N	1:A:1193:PRO:CD	2.45	0.79
1:C:1605:GLU:CA	1:C:1608:THR:HB	2.12	0.79
1:C:1158:GLN:HG2	1:C:1159:MET:SD	2.23	0.79
1:A:1234:LEU:HG	1:A:1235:GLY:H	1.48	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:1414:PHE:CZ	2:F:127:TRP:CD1	2.61	0.78
1:A:1158:GLN:HG2	1:A:1159:MET:SD	2.23	0.78
1:B:1494:SER:HA	1:B:1497:GLN:CD	2.02	0.78
1:A:1277:VAL:HG23	1:A:1278:VAL:H	1.47	0.78
2:F:194:UNK:C	2:F:197:UNK:CA	2.61	0.78
1:A:1505:ILE:HD12	2:F:153:ASN:ND2	1.59	0.78
1:B:1471:PHE:HB3	1:B:1480:LEU:HB2	1.66	0.78
1:B:1214:ALA:O	1:B:1218:TYR:HB2	1.84	0.78
1:C:1499:LEU:HB2	1:C:1511:ALA:HB2	1.66	0.78
1:C:1270:GLN:OE1	1:C:1298:GLU:HB3	1.83	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:B:1358:TRP:O	1:B:1362:VAL:CG2	2.30	0.78
1:B:1149:ASN:O	1:B:1153:LEU:HB2	1.83	0.78
1:A:1387:LYS:HB2	1:A:1390:GLN:HB3	1.64	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:A:1514:LEU:O	1:A:1514:LEU:HD23	1.82	0.78
1:C:1471:PHE:HB3	1:C:1480:LEU:HB2	1.66	0.78
1:C:1154:VAL:HG21	1:C:1180:THR:HG23	1.61	0.78
1:B:1609:LYS:HG2	1:B:1612:LYS:HD2	1.66	0.78
1:B:1387:LYS:HB2	1:B:1390:GLN:HB3	1.64	0.78
1:A:1444:GLN:C	1:A:1446:PRO:HD2	2.04	0.78
1:B:1168:TYR:HD1	1:B:1168:TYR:H	1.31	0.78
1:B:1091:ASN:HD21	1:B:1092:LEU:HG	1.49	0.78
1:C:1271:MET:O	1:C:1275:HIS:HB2	1.84	0.78
2:F:150:LYS:O	2:F:152:ASN:O	2.02	0.78
2:D:150:LYS:O	2:D:152:ASN:O	2.02	0.78
1:A:1609:LYS:HG2	1:A:1612:LYS:HD2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1277:VAL:HG23	1:C:1278:VAL:H	1.47	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:1598:TYR:CD2	2:E:198:UNK:C	2.66	0.78
1:C:1085:LEU:O	1:C:1086:ILE:O	2.01	0.78
1:C:1427:SER:HB3	1:C:1428:PRO:HD3	1.65	0.78
1:C:1149:ASN:O	1:C:1153:LEU:HB2	1.83	0.78
2:E:108:GLU:OE2	2:E:109:GLN:CG	2.32	0.78
1:B:1292:ASP:O	2:D:96:THR:HG23	1.82	0.78
1:A:1596:MET:H	1:A:1597:PRO:CD	1.93	0.78
1:A:1471:PHE:HB3	1:A:1480:LEU:HB2	1.66	0.78
1:A:1091:ASN:HD21	1:A:1092:LEU:HG	1.49	0.78
1:B:1108:TRP:CZ2	1:B:1129:ILE:CB	2.51	0.78
2:D:127:TRP:HA	2:D:130:LYS:HE3	1.65	0.78
1:C:1168:TYR:H	1:C:1168:TYR:HD1	1.31	0.78
2:E:151:ILE:HA	2:E:154:ARG:HD3	1.66	0.78
1:C:1361:LEU:C	1:C:1361:LEU:HD23	2.05	0.78
1:A:1471:PHE:HA	1:A:1474:GLU:HG2	1.66	0.78
2:F:151:ILE:HA	2:F:154:ARG:HD3	1.65	0.78
1:B:1444:GLN:C	1:B:1446:PRO:HD2	2.04	0.78
1:C:1444:GLN:C	1:C:1446:PRO:HD2	2.04	0.78
1:A:1166:GLU:O	1:A:1170:GLU:CA	2.32	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
1:B:1535:LYS:HE2	1:B:1535:LYS:HA	1.66	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
2:E:202:UNK:O	2:E:203:UNK:O	2.01	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
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:A:1253:TRP:O	1:A:1289:TYR:CZ	2.38	0.77
1:B:1361:LEU:HD23	1:B:1361:LEU:C	2.04	0.77
1:B:1166:GLU:O	1:B:1170:GLU:CA	2.32	0.77
1:A:1513:TYR:O	1:A:1516:LYS:HG2	1.84	0.77
1:C:1253:TRP:C	1:C:1255:GLU:H	1.86	0.77
1:B:1159:MET:CA	1:B:1163:LYS:NZ	2.37	0.77
1:C:1525:VAL:HG13	1:C:1526:GLU:OE2	1.84	0.77
1:C:1253:TRP:O	1:C:1289:TYR:CZ	2.38	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1535:LYS:HA	1:A:1535:LYS:HE2	1.66	0.77
1:C:1107:VAL:HG12	1:C:1111:LEU:HB2	1.66	0.77
1:A:1428:PRO:O	1:A:1429:ARG:CB	2.32	0.77
1:B:1428:PRO:O	1:B:1429:ARG:CB	2.32	0.77
1:A:1165:ARG:CZ	1:A:1194:ASN:OD1	2.33	0.77
1:C:1609:LYS:HG2	1:C:1612:LYS:HD2	1.66	0.77
1:C:1431:ASP:O	1:C:1433:THR:N	2.14	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:1584:GLU:HA	1:A:1587:TRP:CD2	2.20	0.77
2:F:194:UNK:O	2:F:197:UNK:HA	1.85	0.77
1:A:1079:THR:O	1:A:1079:THR:HG22	1.83	0.77
1:A:1403:LEU:HD13	1:A:1403:LEU:O	1.85	0.77
1:B:1455:VAL:HG12	1:B:1456:GLN:N	1.98	0.77
1:C:1409:GLN:O	1:C:1413:GLU:CB	2.30	0.77
1:C:1455:VAL:HG12	1:C:1456:GLN:N	1.98	0.77
1:C:1159:MET:O	1:C:1163:LYS:CE	2.33	0.77
2:E:146:VAL:HA	2:E:149:ASN:OD1	1.85	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:1279:HIS:CG	1:B:1282:GLU:CB	2.66	0.77
1:B:1079:THR:HG22	1:B:1079:THR:O	1.83	0.77
1:A:1107:VAL:HG12	1:A:1111:LEU:HB2	1.66	0.77
1:C:1472:ILE:HA	1:C:1507:PHE:CE1	2.18	0.77
1:B:1159:MET:O	1:B:1163:LYS:CE	2.33	0.77
1:B:1525:VAL:HG13	1:B:1526:GLU:OE2	1.84	0.77
1:B:1250:THR:HB	1:B:1285:GLU:OE1	1.85	0.77
1:C:1535:LYS:HA	1:C:1535:LYS:HE2	1.66	0.77
1:A:1361:LEU:HD23	1:A:1361:LEU:C	2.05	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:A:1294:GLY:HA2	2:F:100:GLU:O	1.85	0.77
2:F:190:UNK:O	2:F:191:UNK:C	2.33	0.77
1:B:1414:PHE:O	2:D:130:LYS:HE2	1.82	0.77
1:A:1130:LYS:HB2	1:A:1156:TYR:CE1	2.20	0.77
2:E:150:LYS:O	2:E:152:ASN:O	2.02	0.77
1:B:1264:LYS:NZ	1:B:1268:LEU:CD1	2.48	0.76
1:B:1253:TRP:O	1:B:1289:TYR:CZ	2.38	0.76
1:B:1584:GLU:HA	1:B:1587:TRP:CD2	2.20	0.76
1:B:1107:VAL:HG12	1:B:1111:LEU:HB2	1.67	0.76
1:A:1115:GLN:HG3	1:A:1125:ILE:HG12	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:F:118:ALA:HA	2:F:121:LYS:CE	2.15	0.76
1:C:1428:PRO:O	1:C:1429:ARG:CB	2.32	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:A:1499:LEU:HB2	1:A:1511:ALA:HB2	1.66	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
1:B:1085:LEU:O	1:B:1086:ILE:O	2.01	0.76
1:B:1403:LEU:C	1:B:1403:LEU:HD13	2.05	0.76
2:D:181:UNK:O	2:D:182:UNK:C	2.28	0.76
1:C:1214:ALA:O	1:C:1218:TYR:HB2	1.84	0.76
1:A:1232:VAL:C	1:A:1234:LEU:N	2.37	0.76
1:C:1137:TYR:O	1:C:1141:VAL:HG23	1.85	0.76
1:C:1403:LEU:HD13	1:C:1403:LEU:O	1.85	0.76
1:B:1277:VAL:HG23	1:B:1278:VAL:N	2.01	0.76
2:F:118:ALA:HA	2:F:121:LYS:HE3	1.68	0.76
2:E:133:LYS:HA	2:E:133:LYS:HZ1	1.46	0.76
1:B:1165:ARG:CZ	1:B:1194:ASN:OD1	2.33	0.76
1:B:1499:LEU:HB2	1:B:1511:ALA:HB2	1.66	0.76
1:C:1166:GLU:OE1	1:C:1168:TYR:CD2	2.39	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:B:1292:ASP:HA	2:D:97:GLN:CA	2.15	0.76
2:F:146:VAL:HA	2:F:149:ASN:OD1	1.85	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
1:B:1292:ASP:HA	2:D:97:GLN:C	2.04	0.76
1:B:1601:GLN:HG3	1:B:1604:LYS:HD2	1.67	0.76
1:C:1596:MET:H	1:C:1597:PRO:CD	1.93	0.76
1:C:1122:LYS:HG3	1:C:1123:GLU:N	1.99	0.76
1:A:1403:LEU:C	1:A:1403:LEU:HD13	2.05	0.76
1:A:1472:ILE:HA	1:A:1507:PHE:CE1	2.18	0.76
2:F:127:TRP:HA	2:F:130:LYS:HE3	1.66	0.76
1:C:1375:ILE:HD11	1:C:1394:ILE:HB	1.66	0.76
1:B:1274:LEU:C	1:B:1277:VAL:HG22	2.06	0.76
1:B:1115:GLN:HG3	1:B:1125:ILE:HG12	1.67	0.76
2:D:146:VAL:HA	2:D:149:ASN:OD1	1.85	0.76
1:C:1165:ARG:NH2	1:C:1194:ASN:CG	2.34	0.76
1:C:1159:MET:CA	1:C:1163:LYS:NZ	2.37	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1264:LYS:NZ	1:A:1268:LEU:CD1	2.48	0.76
1:A:1274:LEU:C	1:A:1277:VAL:HG22	2.06	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:1504:LEU:CG	2:D:149:ASN:HA	2.15	0.76
1:C:1403:LEU:HD13	1:C:1403:LEU:C	2.05	0.76
1:B:1130:LYS:HB2	1:B:1156:TYR:CE1	2.20	0.76
1:C:1232:VAL:C	1:C:1234:LEU:N	2.37	0.76
1:C:1296:PHE:O	1:C:1297:GLU:C	2.25	0.76
1:A:1274:LEU:HG	1:A:1302:MET:CG	2.14	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:B:1605:GLU:CA	1:B:1608:THR:HB	2.12	0.76
1:B:1137:TYR:O	1:B:1141:VAL:HG23	1.86	0.76
1:C:1261:VAL:HG22	1:C:1295:TYR:HE2	1.45	0.75
1:C:1274:LEU:C	1:C:1277:VAL:HG22	2.06	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:A:1108:TRP:CZ2	1:A:1129:ILE:CB	2.51	0.75
1:C:1471:PHE:HA	1:C:1474:GLU:HG2	1.66	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:A:1258:PHE:HZ	2:F:93:ASP:OD1	1.69	0.75
2:F:91:GLN:NE2	2:F:94:ARG:HG2	2.01	0.75
1:C:1521:TRP:O	1:C:1525:VAL:HG12	1.86	0.75
1:A:1277:VAL:HG23	1:A:1278:VAL:N	2.01	0.75
1:A:1601:GLN:HG3	1:A:1604:LYS:HD2	1.67	0.75
1:C:1598:TYR:HD2	2:E:198:UNK:C	1.97	0.75
1:B:1358:TRP:HE3	1:B:1377:THR:HG22	1.49	0.75
1:A:1079:THR:HG23	1:A:1105:PRO:CG	2.08	0.75
1:C:1601:GLN:HG3	1:C:1604:LYS:HD2	1.68	0.75
1:A:1455:VAL:HG12	1:A:1456:GLN:N	1.98	0.75
1:C:1414:PHE:O	1:C:1416:PRO:CD	2.21	0.75
1:C:1584:GLU:HA	1:C:1587:TRP:CD2	2.20	0.75
1:C:1358:TRP:CE3	1:C:1377:THR:HG22	2.22	0.75
1:A:1445:LEU:O	1:A:1448:VAL:HG22	1.87	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:C:1274:LEU:HG	1:C:1302:MET:CG	2.14	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1332:MET:CE	1:A:1357:LEU:HD13	2.17	0.75
1:B:1292:ASP:C	2:D:97:GLN:CA	2.41	0.75
1:B:1296:PHE:O	1:B:1297:GLU:C	2.25	0.75
1:B:1165:ARG:NH2	1:B:1194:ASN:CG	2.34	0.75
1:A:1250:THR:HB	1:A:1285:GLU:OE1	1.85	0.75
2:F:118:ALA:O	2:F:122:VAL:HG22	1.87	0.75
1:B:1403:LEU:O	1:B:1403:LEU:HD13	1.85	0.75
1:C:1412:LEU:HB2	1:C:1419:LEU:HD13	1.69	0.75
1:A:1292:ASP:O	2:F:96:THR:O	2.04	0.75
2:F:162:GLN:C	2:F:166:ALA:CB	2.51	0.75
1:B:1472:ILE:HA	1:B:1507:PHE:CE1	2.18	0.75
1:C:1412:LEU:HD21	1:C:1439:PHE:CE1	2.22	0.75
1:B:1166:GLU:O	1:B:1170:GLU:CG	2.35	0.75
1:B:1274:LEU:HA	1:B:1277:VAL:CG2	2.16	0.75
1:C:1362:VAL:HG22	1:C:1377:THR:HG21	1.69	0.75
1:A:1358:TRP:HE3	1:A:1377:THR:HG22	1.49	0.75
1:B:1412:LEU:HD21	1:B:1439:PHE:CE1	2.22	0.75
1:C:1445:LEU:O	1:C:1448:VAL:HG22	1.87	0.75
1:A:1166:GLU:O	1:A:1170:GLU:CG	2.35	0.75
1:C:1274:LEU:HA	1:C:1277:VAL:CG2	2.16	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:A:1188:GLU:HA	1:A:1191:ASN:HD22	1.50	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:1535:LYS:NZ	1:C:1563:ARG:HH12	1.84	0.74
1:A:1412:LEU:HD21	1:A:1439:PHE:CE1	2.22	0.74
1:C:1166:GLU:O	1:C:1170:GLU:CG	2.35	0.74
1:C:1091:ASN:HD21	1:C:1092:LEU:HG	1.49	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: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:1521:TRP:O	1:A:1525:VAL:HG12	1.86	0.74
1:A:1108:TRP:HZ3	1:A:1129:ILE:HG21	1.50	0.74
1:B:1554:LEU:HA	1:B:1557:PHE:HD2	1.53	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
2:D:118:ALA:O	2:D:122:VAL:HG22	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1188:GLU:HA	1:C:1191:ASN:HD22	1.50	0.74
1:C:1465:GLU:CD	1:C:1465:GLU:C	2.46	0.74
1:C:1332:MET:HG3	1:C:1357:LEU:CD1	2.18	0.74
1:B:1332:MET:HG3	1:B:1357:LEU:CD1	2.18	0.74
1:B:1332:MET:CE	1:B:1357:LEU:HD13	2.17	0.74
1:C:1538:MET:HE3	1:C:1566:PHE:HB3	1.68	0.74
1:A:1371:TYR:HB3	1:A:1394:ILE:HG22	1.69	0.74
1:B:1521:TRP:O	1:B:1525:VAL:HG12	1.87	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:C:1554:LEU:HA	1:C:1557:PHE:HD2	1.52	0.74
1:B:1358:TRP:HZ2	2:D:112:ARG:NH2	1.86	0.74
2:D:146:VAL:O	2:D:149:ASN:HB2	1.87	0.74
1:B:1602:VAL:O	1:B:1606:TYR:HB2	1.87	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:B:1166:GLU:OE1	1:B:1169:VAL:CG2	2.35	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:B:1465:GLU:C	1:B:1465:GLU:CD	2.46	0.74
1:C:1332:MET:CE	1:C:1357:LEU:HD13	2.17	0.74
1:A:1362:VAL:HG22	1:A:1377:THR:HG21	1.69	0.74
2:F:146:VAL:O	2:F:149:ASN:HB2	1.87	0.74
2:D:118:ALA:HA	2:D:121:LYS:HE3	1.68	0.74
1:C:1257:CYS:HA	1:C:1260:CYS:SG	2.27	0.74
1:B:1505:ILE:HD11	2:D:152:ASN:HB3	1.68	0.74
1:B:1168:TYR:CD1	1:B:1168:TYR:N	2.56	0.74
1:A:1159:MET:O	1:A:1163:LYS:CE	2.33	0.74
1:C:1159:MET:HA	1:C:1162:LYS:NZ	2.03	0.74
1:C:1387:LYS:CB	1:C:1390:GLN:CB	2.66	0.74
1:A:1465:GLU:C	1:A:1465:GLU:CD	2.47	0.74
1:C:1282:GLU:CG	1:C:1283:LEU:H	1.99	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
2:E:118:ALA:HA	2:E:121:LYS:HE3	1.68	0.73
1:A:1168:TYR:N	1:A:1168:TYR:CD1	2.56	0.73
1:C:1215:LYS:O	1:C:1217:LEU:N	2.21	0.73
1:C:1274:LEU:HA	1:C:1277:VAL:HG21	1.70	0.73
1:B:1258:PHE:O	1:B:1293:ARG:NH1	2.21	0.73
2:F:152:ASN:O	2:F:153:ASN:HB2	1.88	0.73
1:B:1419:LEU:C	1:B:1422:LEU:HB3	2.08	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1513:TYR:HD1	1:A:1516:LYS:HE2	1.53	0.73
2:F:183:UNK:O	2:F:187:UNK:N	2.21	0.73
1:A:1419:LEU:C	1:A:1422:LEU:HB3	2.08	0.73
1:B:1513:TYR:HD1	1:B:1516:LYS:HE2	1.53	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:1504:LEU:HD11	2:E:149:ASN:ND2	1.99	0.73
1:C:1496:ALA:HB2	1:C:1514:LEU:HD22	1.70	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
2:E:129:GLU:HB2	2:E:132:LYS:HZ2	1.54	0.73
1:C:1161:ARG:HA	1:C:1165:ARG:HA	1.70	0.73
2:E:155:ILE:HD12	2:E:155:ILE:N	2.02	0.73
2:E:152:ASN:O	2:E:153:ASN:HB2	1.89	0.73
1:C:1513:TYR:HD1	1:C:1516:LYS:HE2	1.53	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:A:1296:PHE:O	1:A:1297:GLU:C	2.25	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:B:1215:LYS:O	1:B:1217:LEU:N	2.21	0.73
1:B:1417:LEU:O	1:B:1418:LEU:CB	2.33	0.73
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
1:C:1371:TYR:HB3	1:C:1394:ILE:HG22	1.69	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
2:E:192:UNK:O	2:E:193:UNK:C	2.35	0.73
1:B:1282:GLU:O	1:B:1283:LEU:CB	2.37	0.73
1:A:1554:LEU:HD11	1:A:1568:ALA:HB2	1.71	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:1078:ASN:C	1:A:1102:CYS:HB3	2.09	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:C:1602:VAL:HG22	2:E:203:UNK:HA	1.70	0.72
1:A:1108:TRP:CE3	1:A:1129:ILE:HB	2.24	0.72
1:C:1078:ASN:C	1:C:1102:CYS:HB3	2.09	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1416:PRO:HG3	2:F:130:LYS:CG	1.98	0.72
1:A:1161:ARG:HH21	1:A:1170:GLU:CD	1.93	0.72
1:C:1161:ARG:HH21	1:C:1170:GLU:CD	1.92	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:B:1161:ARG:HH21	1:B:1170:GLU:CD	1.93	0.72
1:A:1580:ASP:OD2	1:C:1605:GLU:CG	2.36	0.72
1:C:1258:PHE:O	1:C:1293:ARG:NH1	2.21	0.72
1:A:1324:TYR:HD2	1:A:1332:MET:HA	1.55	0.72
1:B:1122:LYS:HZ1	1:B:1147:SER:CB	2.00	0.72
1:B:1414:PHE:O	1:B:1416:PRO:CD	2.21	0.72
1:C:1425:VAL:HG23	1:C:1426:LEU:N	2.04	0.72
1:B:1149:ASN:O	1:B:1153:LEU:CB	2.38	0.72
1:A:1166:GLU:OE1	1:A:1169:VAL:CG2	2.35	0.72
1:C:1324:TYR:HD2	1:C:1332:MET:HA	1.54	0.72
1:A:1425:VAL:HG23	1:A:1426:LEU:N	2.04	0.72
2:D:127:TRP:CD1	2:D:128:ARG:HG3	2.24	0.72
1:C:1419:LEU:C	1:C:1422:LEU:HB3	2.08	0.72
1:B:1411:TYR:O	1:B:1415:LYS:O	2.07	0.72
1:C:1167:SER:HB2	1:C:1197:HIS:N	2.05	0.72
1:B:1554:LEU:HD11	1:B:1568:ALA:HB2	1.71	0.72
1:B:1358:TRP:CE3	1:B:1377:THR:HG22	2.22	0.72
1:B:1481:ARG:NH1	1:B:1510:ILE:HG12	2.04	0.72
1:B:1496:ALA:HB2	1:B:1514:LEU:HD22	1.70	0.72
1:C:1168:TYR:CD1	1:C:1168:TYR:N	2.56	0.72
1:A:1159:MET:HA	1:A:1162:LYS:NZ	2.03	0.72
1:B:1387:LYS:CB	1:B:1390:GLN:CB	2.66	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:1150:TRP:O	1:A:1153:LEU:N	2.23	0.72
2:F:106:ARG:HH21	2:F:106:ARG:HA	1.55	0.72
1:B:1330:GLN:HG3	1:B:1331:LYS:H	1.54	0.72
1:B:1122:LYS:HE2	1:B:1147:SER:OG	1.90	0.72
1:C:1122:LYS:HE2	1:C:1147:SER:OG	1.89	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: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:A:1274:LEU:HA	1:A:1277:VAL:HG21	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1395:ILE:CG1	1:A:1404:TYR:CD2	2.72	0.72
1:B:1159:MET:HA	1:B:1162:LYS:NZ	2.03	0.72
1:B:1108:TRP:HZ3	1:B:1129:ILE:HG21	1.50	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:1468:ASN:O	1:C:1472:ILE:HG13	1.90	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:1108:TRP:CE3	1:C:1129:ILE:HB	2.24	0.71
1:A:1165:ARG:NH2	1:A:1194:ASN:CG	2.34	0.71
2:D:106:ARG:HA	2:D:106:ARG:HH21	1.55	0.71
1:C:1368:TYR:CD1	1:C:1370:GLU:CG	2.73	0.71
1:A:1266:PHE:HB2	1:A:1268:LEU:HG	1.72	0.71
1:A:1257:CYS:HB3	1:A:1289:TYR:OH	1.90	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:1108:TRP:CE3	1:B:1129:ILE:HB	2.24	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:A:1468:ASN:O	1:A:1472:ILE:HG13	1.90	0.71
1:B:1425:VAL:HG23	1:B:1426:LEU:N	2.04	0.71
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:B:1161:ARG:HA	1:B:1165:ARG:HA	1.70	0.71
2:E:105:TRP:C	2:E:108:GLU:HG3	2.10	0.71
1:B:1254:LYS:HA	1:B:1289:TYR:CD2	2.25	0.71
1:A:1362:VAL:CG2	1:A:1377:THR:HG21	2.20	0.71
1:A:1358:TRP:CE3	1:A:1377:THR:HG22	2.22	0.71
1:B:1468:ASN:O	1:B:1472:ILE:HG13	1.90	0.71
1:C:1282:GLU:O	1:C:1283:LEU:CB	2.37	0.71
1:C:1270:GLN:CD	1:C:1298:GLU:HB3	2.11	0.71
2:F:127:TRP:CD1	2:F:128:ARG:HG3	2.25	0.71
1:B:1150:TRP:O	1:B:1153:LEU:N	2.23	0.71
2:E:90:ALA:H	2:E:91:GLN:HA	1.55	0.71
1:C:1215:LYS:C	1:C:1217:LEU:H	1.93	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:B:1104:GLU:HB3	1:B:1128:TYR:O	1.90	0.71
1:B:1362:VAL:CG2	1:B:1377:THR:HG21	2.20	0.71
1:A:1358:TRP:CH2	1:A:1381:HIS:HE1	2.02	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:126:GLU:HG3	2:F:130:LYS:HZ3	1.55	0.71
1:C:1149:ASN:O	1:C:1153:LEU:CB	2.38	0.71
1:B:1167:SER:HB2	1:B:1197:HIS:N	2.05	0.71
1:A:1167:SER:HA	1:A:1171:THR:H	1.55	0.71
1:C:1167:SER:HA	1:C:1171:THR:H	1.55	0.71
1:C:1257:CYS:HB3	1:C:1289:TYR:OH	1.90	0.71
1:C:1333:ARG:HB2	1:C:1360:GLU:CD	2.10	0.71
1:A:1270:GLN:CD	1:A:1298:GLU:HB3	2.11	0.71
1:B:1270:GLN:CD	1:B:1298:GLU:HB3	2.11	0.71
1:A:1586:ALA:CB	1:A:1590:ASN:ND2	2.48	0.71
2:F:194:UNK:C	2:F:197:UNK:CB	2.68	0.71
1:B:1381:HIS:HA	2:D:115:GLU:CG	2.19	0.71
1:A:1122:LYS:HE3	1:A:1147:SER:CB	2.20	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
2:F:129:GLU:HB2	2:F:132:LYS:HZ2	1.55	0.71
1:A:1149:ASN:O	1:A:1153:LEU:CB	2.38	0.71
1:A:1181:ASN:OD1	1:A:1181:ASN:C	2.28	0.71
1:B:1078:ASN:C	1:B:1102:CYS:HB3	2.09	0.71
1:A:1122:LYS:HE2	1:A:1147:SER:OG	1.89	0.71
2:F:134:ASP:O	2:F:137:GLU:HB2	1.90	0.71
2:E:118:ALA:HA	2:E:121:LYS:NZ	2.06	0.71
1:B:1181:ASN:C	1:B:1181:ASN:OD1	2.28	0.71
1:C:1181:ASN:OD1	1:C:1181:ASN:C	2.28	0.71
1:A:1591:ILE:CG2	1:A:1592:MET:H	1.98	0.71
1:A:1356:HIS:NE2	2:F:112:ARG:CG	2.48	0.71
1:B:1466:SER:O	1:B:1470:LEU:HG	1.91	0.71
1:B:1130:LYS:HB2	1:B:1156:TYR:HE1	1.56	0.71
1:B:1108:TRP:CE2	1:B:1129:ILE:HB	2.25	0.71
1:A:1104:GLU:HB3	1:A:1128:TYR:O	1.89	0.71
1:A:1479:ALA:O	1:A:1483:SER:N	2.23	0.71
1:A:1167:SER:O	1:A:1171:THR:N	2.24	0.71
1:C:1254:LYS:HA	1:C:1289:TYR:CD2	2.25	0.70
1:A:1333:ARG:HB2	1:A:1360:GLU:CD	2.10	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
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
2:F:118:ALA:HA	2:F:121:LYS:NZ	2.06	0.70
1:B:1479:ALA:O	1:B:1483:SER:N	2.23	0.70
1:A:1215:LYS:C	1:A:1217:LEU:H	1.93	0.70

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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	0.70
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:C:1479:ALA:O	1:C:1483:SER:N	2.23	0.70
1:B:1167:SER:HA	1:B:1171:THR:H	1.55	0.70
1:C:1279:HIS:HE1	1:C:1286:LEU:CD2	1.97	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:B:1215:LYS:C	1:B:1217:LEU:H	1.93	0.70
1:A:1597:PRO:HB3	1:A:1601:GLN:HE22	1.56	0.70
1:B:1402:GLU:OE1	1:B:1402:GLU:C	2.30	0.70
1:C:1167:SER:O	1:C:1171:THR:N	2.24	0.70
2:F:200:UNK:C	2:F:202:UNK:H	2.01	0.70
1:C:1615:ALA:O	1:C:1619:LEU:HD23	1.92	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:B:1078:ASN:CG	1:B:1101:ARG:O	2.30	0.70
1:A:1122:LYS:O	1:A:1126:ASP:CB	2.40	0.70
1:C:1108:TRP:HZ3	1:C:1129:ILE:HG21	1.50	0.70
1:A:1414:PHE:HB3	2:F:127:TRP:N	2.02	0.70
2:D:118:ALA:HA	2:D:121:LYS:NZ	2.06	0.70
1:A:1615:ALA:O	1:A:1619:LEU:HD23	1.92	0.70
1:A:1330:GLN:HG3	1:A:1331:LYS:H	1.54	0.70
1:C:1597:PRO:HB3	1:C:1601:GLN:HE22	1.56	0.70
1:A:1496:ALA:HB3	1:A:1515:PHE:CZ	2.27	0.70
1:C:1412:LEU:N	1:C:1419:LEU:HD13	2.07	0.70
1:B:1167:SER:O	1:B:1171:THR:N	2.24	0.70
1:A:1159:MET:C	1:A:1163:LYS:NZ	2.45	0.70
1:C:1142:GLN:C	1:C:1142:GLN:OE1	2.30	0.70
1:A:1357:LEU:CD2	2:F:111:LYS:NZ	2.54	0.70
2:F:98:GLU:HB2	2:F:99:PRO:HD3	1.74	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
1:A:1108:TRP:CE2	1:A:1129:ILE:HB	2.25	0.70
1:A:1402:GLU:OE1	1:A:1402:GLU:C	2.30	0.70
1:A:1409:GLN:O	1:A:1413:GLU:CB	2.30	0.70
1:A:1142:GLN:OE1	1:A:1142:GLN:C	2.30	0.70
1:A:1620:ARG:HG3	1:A:1620:ARG:HH11	1.56	0.70
1:A:1104:GLU:CB	1:A:1129:ILE:HA	2.22	0.70
1:C:1108:TRP:CZ2	1:C:1129:ILE:CB	2.51	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:A:1371:TYR:CD1	1:A:1394:ILE:HG22	2.27	0.70
1:A:1475:GLU:CG	2:F:149:ASN:OD1	2.30	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
1:A:1387:LYS:CB	1:A:1390:GLN:CB	2.66	0.70
2:E:189:UNK:CA	2:E:195:UNK:N	2.55	0.70
1:A:1232:VAL:HG22	1:A:1233:HIS:N	2.06	0.70
1:B:1104:GLU:CB	1:B:1129:ILE:HA	2.22	0.69
1:C:1122:LYS:O	1:C:1126:ASP:CB	2.40	0.69
1:A:1412:LEU:N	1:A:1419:LEU:HD13	2.07	0.69
1:B:1166:GLU:CG	1:B:1168:TYR:CE1	2.74	0.69
1:C:1130:LYS:HB2	1:C:1156:TYR:HE1	1.56	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:HG3	1:B:1620:ARG:HH11	1.56	0.69
1:C:1104:GLU:CB	1:C:1129:ILE:HA	2.22	0.69
1:B:1448:VAL:HB	1:B:1451:TYR:HD2	1.57	0.69
1:C:1402:GLU:OE1	1:C:1402:GLU:C	2.30	0.69
1:A:1521:TRP:CZ3	1:A:1522:LYS:HD2	2.27	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
2:F:195:UNK:C	2:F:197:UNK:H2	2.06	0.69
1:C:1317:PHE:HD2	1:C:1317:PHE:N	1.90	0.69
1:A:1448:VAL:HB	1:A:1451:TYR:HD2	1.57	0.69
1:B:1168:TYR:HA	1:B:1172:GLU:OE2	1.92	0.69
2:D:174:UNK:N	2:D:176:UNK:N	2.41	0.69
1:B:1232:VAL:C	1:B:1234:LEU:N	2.37	0.69
1:C:1257:CYS:N	1:C:1289:TYR:OH	2.24	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:1466:SER:O	1:C:1470:LEU:HG	1.91	0.69
1:C:1166:GLU:CG	1:C:1168:TYR:CE1	2.74	0.69
1:B:1142:GLN:C	1:B:1142:GLN:OE1	2.30	0.69
1:C:1496:ALA:HB3	1:C:1515:PHE:CZ	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1357:LEU:CD2	2:F:111:LYS:HZ1	2.06	0.69
1:C:1377:THR:HA	1:C:1381:HIS:HD2	1.56	0.69
2:D:127:TRP:HA	2:D:130:LYS:CE	2.23	0.69
1:C:1494:SER:HA	1:C:1497:GLN:CG	2.22	0.69
1:C:1159:MET:C	1:C:1163:LYS:NZ	2.45	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:1482:THR:HA	1:C:1485:ASP:OD2	1.93	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
2:E:127:TRP:HA	2:E:130:LYS:CE	2.23	0.69
1:B:1167:SER:HB2	1:B:1197:HIS:H	1.58	0.69
2:E:108:GLU:OE1	2:E:108:GLU:C	2.31	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:1159:MET:CA	1:A:1163:LYS:NZ	2.37	0.69
1:B:1386:TRP:CZ2	1:B:1388:GLU:HA	2.27	0.69
1:A:1537:ALA:HA	1:A:1540:TYR:CZ	2.27	0.69
1:B:1108:TRP:CE3	1:B:1108:TRP:HA	2.28	0.69
1:C:1078:ASN:CG	1:C:1101:ARG:O	2.30	0.69
1:C:1107:VAL:CG1	1:C:1111:LEU:HB2	2.23	0.69
1:A:1408:ILE:HG23	1:A:1412:LEU:CB	2.22	0.69
1:B:1165:ARG:NH2	1:B:1194:ASN:ND2	2.40	0.69
1:A:1386:TRP:CZ2	1:A:1388:GLU:HA	2.27	0.69
1:C:1253:TRP:C	1:C:1255:GLU:N	2.46	0.69
1:C:1263:GLY:O	1:C:1264:LYS:HB3	1.93	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:A:1166:GLU:HA	1:A:1170:GLU:OE2	1.93	0.69
1:C:1166:GLU:H	1:C:1170:GLU:HB3	1.58	0.69
1:C:1620:ARG:HG3	1:C:1620:ARG:HH11	1.56	0.69
1:A:1211:TYR:HB2	1:A:1231:LEU:HD11	1.73	0.69
1:B:1108:TRP:HB3	1:B:1134:PRO:HA	1.75	0.68
1:B:1377:THR:HA	1:B:1381:HIS:HD2	1.56	0.68
1:C:1349:LEU:HA	1:C:1352:ALA:HB3	1.75	0.68
1:B:1166:GLU:HA	1:B:1170:GLU:OE2	1.93	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:1537:ALA:HA	1:C:1540:TYR:CZ	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:189:UNK:O	2:D:190:UNK:C	2.40	0.68
1:A:1303:LEU:O	1:A:1307:LEU:HD13	1.92	0.68
1:B:1358:TRP:HA	1:B:1361:LEU:HB3	1.75	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:1494:SER:HA	1:A:1497:GLN:CG	2.22	0.68
1:B:1615:ALA:O	1:B:1619:LEU:HD23	1.92	0.68
1:B:1122:LYS:HE3	1:B:1147:SER:CB	2.20	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:1159:MET:C	1:B:1163:LYS:NZ	2.45	0.68
2:E:110:ARG:HB2	2:E:110:ARG:CZ	2.24	0.68
1:A:1333:ARG:CB	1:A:1360:GLU:CG	2.72	0.68
1:C:1578:ARG:CZ	1:C:1583:LEU:CD2	2.68	0.68
1:A:1349:LEU:HA	1:A:1352:ALA:HB3	1.75	0.68
1:B:1514:LEU:C	1:B:1514:LEU:HD23	2.14	0.68
1:C:1188:GLU:OE2	1:C:1191:ASN:HB2	1.93	0.68
1:C:1218:TYR:HE2	1:C:1227:LEU:HB2	1.59	0.68
1:C:1211:TYR:HB2	1:C:1231:LEU:HD11	1.73	0.68
1:A:1326:LYS:HZ3	1:A:1354:GLN:HG2	1.58	0.68
1:A:1122:LYS:HZ1	1:A:1147:SER:HG	1.38	0.68
1:C:1122:LYS:HZ1	1:C:1147:SER:HG	1.39	0.68
1:B:1162:LYS:NZ	1:B:1163:LYS:NZ	2.42	0.68
1:C:1521:TRP:CZ3	1:C:1522:LYS:HD2	2.27	0.68
2:E:110:ARG:NH2	2:E:110:ARG:HB2	2.09	0.68
1:C:1333:ARG:CB	1:C:1360:GLU:CG	2.72	0.68
1:A:1078:ASN:CG	1:A:1101:ARG:O	2.30	0.68
1:B:1161:ARG:NH2	1:B:1170:GLU:HG3	2.08	0.68
1:A:1188:GLU:OE2	1:A:1191:ASN:HB2	1.93	0.68
1:A:1161:ARG:NH1	1:A:1193:PRO:HA	2.08	0.68
2:E:90:ALA:HB3	2:E:91:GLN:HA	1.75	0.68
2:F:195:UNK:O	2:F:196:UNK:C	2.38	0.68
1:B:1382:PRO:HG3	1:B:1410:PHE:HE1	1.57	0.68
1:A:1108:TRP:HB3	1:A:1134:PRO:HA	1.75	0.68
1:C:1358:TRP:HA	1:C:1361:LEU:HB3	1.75	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
1:A:1145:ASN:HD21	1:A:1150:TRP:HE1	1.42	0.68
1:B:1171:THR:OG1	1:B:1196:ALA:HB1	1.93	0.68
1:A:1602:VAL:HG11	2:F:202:UNK:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1537:ALA:HA	1:B:1540:TYR:CZ	2.28	0.68
1:A:1482:THR:HA	1:A:1485:ASP:OD2	1.92	0.68
1:B:1482:THR:HA	1:B:1485:ASP:OD2	1.92	0.68
1:C:1592:MET:SD	1:C:1593:ASP:OD1	2.52	0.68
1:C:1386:TRP:CZ2	1:C:1388:GLU:HA	2.27	0.68
2:E:100:GLU:OE2	2:E:103:ARG:HD2	1.94	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
1:A:1563:ARG:HH22	2:F:181:UNK:HA	1.59	0.68
1:A:1107:VAL:CG1	1:A:1111:LEU:HB2	2.23	0.68
1:A:1474:GLU:O	2:F:145:GLN:CD	2.33	0.68
1:A:1191:ASN:C	1:A:1193:PRO:HD2	2.14	0.68
2:F:110:ARG:CZ	2:F:110:ARG:HB2	2.24	0.68
1:C:1259:ALA:HA	1:C:1293:ARG:NH2	2.09	0.68
1:A:1592:MET:SD	1:A:1593:ASP:OD1	2.52	0.68
1:C:1108:TRP:HE3	1:C:1108:TRP:HA	1.59	0.68
1:C:1371:TYR:CD1	1:C:1394:ILE:HG22	2.27	0.68
1:C:1161:ARG:NH2	1:C:1170:GLU:HG3	2.08	0.68
1:C:1527:LEU:HD21	1:C:1540:TYR:OH	1.94	0.68
1:A:1259:ALA:HA	1:A:1293:ARG:NH2	2.09	0.67
1:A:1327:PHE:O	1:A:1329:PRO:HD3	1.94	0.67
1:B:1259:ALA:HA	1:B:1293:ARG:NH2	2.09	0.67
1:B:1263:GLY:O	1:B:1264:LYS:HB3	1.93	0.67
1:C:1596:MET:O	1:C:1597:PRO:O	2.12	0.67
1:C:1108:TRP:HB3	1:C:1134:PRO:HA	1.75	0.67
1:C:1132:ASP:CG	1:C:1133:ASP:H	1.97	0.67
1:A:1358:TRP:CE2	1:A:1381:HIS:ND1	2.62	0.67
1:C:1372:ASP:OD1	1:C:1373:ASN:N	2.27	0.67
1:C:1171:THR:OG1	1:C:1196:ALA:HB1	1.93	0.67
1:A:1162:LYS:NZ	1:A:1163:LYS:NZ	2.42	0.67
1:C:1514:LEU:HD23	1:C:1514:LEU:C	2.14	0.67
1:C:1279:HIS:CG	1:C:1282:GLU:CB	2.66	0.67
1:B:1333:ARG:CB	1:B:1360:GLU:CG	2.72	0.67
1:B:1349:LEU:HA	1:B:1352:ALA:HB3	1.75	0.67
1:A:1079:THR:CG2	1:A:1105:PRO:CD	2.67	0.67
1:B:1372:ASP:OD1	1:B:1373:ASN:N	2.27	0.67
1:C:1408:ILE:HG22	1:C:1412:LEU:HD23	1.77	0.67
1:B:1161:ARG:NH1	1:B:1193:PRO:HA	2.08	0.67
1:C:1191:ASN:C	1:C:1193:PRO:HD2	2.15	0.67
1:A:1317:PHE:N	1:A:1317:PHE:HD2	1.90	0.67
1:C:1327:PHE:O	1:C:1329:PRO:HD3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:1598:TYR:CE1	1:B:1588:ARG:HB2	2.29	0.67
1:B:1592:MET:SD	1:B:1593:ASP:OD1	2.52	0.67
1:A:1447:LEU:O	1:A:1450:PRO:HD2	1.95	0.67
1:C:1420:ASN:HA	1:C:1423:LEU:HG	1.76	0.67
1:B:1188:GLU:OE2	1:B:1191:ASN:HB2	1.93	0.67
1:A:1253:TRP:C	1:A:1255:GLU:N	2.46	0.67
1:A:1264:LYS:NZ	1:A:1268:LEU:HD13	2.09	0.67
1:A:1257:CYS:SG	1:A:1269:ALA:HB1	2.35	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:A:1108:TRP:CZ3	1:A:1129:ILE:CD1	2.78	0.67
1:C:1108:TRP:CE3	1:C:1108:TRP:HA	2.28	0.67
1:B:1420:ASN:HA	1:B:1423:LEU:HG	1.76	0.67
1:B:1166:GLU:H	1:B:1170:GLU:HB3	1.58	0.67
1:C:1161:ARG:NH1	1:C:1193:PRO:HA	2.08	0.67
1:A:1162:LYS:NZ	1:A:1163:LYS:HZ1	1.92	0.67
1:A:1527:LEU:HD21	1:A:1540:TYR:OH	1.94	0.67
1:B:1602:VAL:HG22	2:D:205:UNK:C	2.24	0.67
2:F:110:ARG:NH2	2:F:110:ARG:HB2	2.09	0.67
1:C:1264:LYS:NZ	1:C:1268:LEU:HD13	2.09	0.67
1:A:1332:MET:SD	1:A:1360:GLU:CG	2.83	0.67
1:B:1253:TRP:C	1:B:1255:GLU:N	2.46	0.67
2:D:133:LYS:HA	2:D:133:LYS:HZ1	1.59	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:A:1327:PHE:CZ	2:F:104:LYS:HB3	2.28	0.67
1:B:1327:PHE:O	1:B:1329:PRO:HD3	1.94	0.67
1:B:1578:ARG:HD3	1:B:1582:VAL:HB	1.77	0.67
1:B:1132:ASP:CG	1:B:1133:ASP:H	1.97	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:1408:ILE:HG22	1:B:1412:LEU:HD23	1.76	0.67
1:B:1592:MET:C	1:B:1592:MET:HE2	2.15	0.67
2:E:181:UNK:O	2:E:183:UNK:N	2.28	0.67
1:B:1362:VAL:CG2	1:B:1377:THR:CG2	2.73	0.67
1:C:1379:MET:HE1	1:C:1406:ARG:HD3	1.76	0.67
1:C:1409:GLN:HA	1:C:1413:GLU:HG2	0.75	0.67
1:C:1167:SER:HB2	1:C:1197:HIS:H	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1232:VAL:HG22	1:C:1233:HIS:N	2.06	0.67
1:C:1326:LYS:HZ3	1:C:1354:GLN:HG2	1.58	0.67
1:A:1261:VAL:CG2	1:A:1295:TYR:CE2	2.77	0.67
1:B:1261:VAL:HG13	1:B:1295:TYR:CZ	2.30	0.67
1:B:1257:CYS:SG	1:B:1269:ALA:HB1	2.34	0.67
1:B:1108:TRP:CZ3	1:B:1129:ILE:CD1	2.78	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:B:1218:TYR:HE2	1:B:1227:LEU:HB2	1.59	0.67
1:C:1261:VAL:HG13	1:C:1295:TYR:CZ	2.30	0.67
1:B:1596:MET:O	1:B:1597:PRO:O	2.12	0.67
1:B:1108:TRP:HE3	1:B:1108:TRP:HA	1.59	0.67
1:A:1414:PHE:CA	2:F:127:TRP:HA	2.21	0.67
1:B:1161:ARG:NH2	1:B:1170:GLU:OE1	2.28	0.67
2:E:104:LYS:O	2:E:108:GLU:HB3	1.92	0.67
2:D:110:ARG:HB2	2:D:110:ARG:CZ	2.23	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:A:1408:ILE:HG22	1:A:1412:LEU:HD23	1.77	0.67
1:B:1408:ILE:HG22	1:B:1412:LEU:CD2	2.25	0.67
1:B:1371:TYR:CD1	1:B:1394:ILE:HG22	2.27	0.67
1:A:1218:TYR:HE2	1:A:1227:LEU:HB2	1.59	0.67
1:C:1617:GLU:HG2	1:C:1621:LYS:HZ3	1.58	0.67
2:E:89:ILE:N	2:E:90:ALA:HA	2.08	0.67
2:D:110:ARG:HB2	2:D:110:ARG:NH2	2.09	0.67
1:A:1514:LEU:C	1:A:1514:LEU:HD23	2.14	0.66
1:A:1414:PHE:HB2	2:F:130:LYS:HZ2	1.58	0.66
2:E:134:ASP:O	2:E:137:GLU:CB	2.43	0.66
1:B:1145:ASN:HD21	1:B:1150:TRP:HE1	1.42	0.66
1:A:1130:LYS:NZ	1:A:1156:TYR:O	2.26	0.66
1:B:1154:VAL:HG11	1:B:1180:THR:OG1	1.96	0.66
1:A:1132:ASP:CG	1:A:1133:ASP:H	1.98	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: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:A:1592:MET:C	1:A:1592:MET:CE	2.64	0.66
1:B:1584:GLU:HA	1:B:1587:TRP:CE2	2.29	0.66
1:A:1108:TRP:CE2	1:A:1129:ILE:O	2.48	0.66
1:C:1108:TRP:CZ3	1:C:1129:ILE:CD1	2.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:154:ARG:HB3	2:F:154:ARG:NH1	2.11	0.66
1:B:1395:ILE:CG1	1:B:1404:TYR:HE2	2.02	0.66
2:E:119:ALA:C	2:E:123:MET:HG2	2.14	0.66
1:B:1191:ASN:C	1:B:1193:PRO:HD2	2.15	0.66
1:A:1161:ARG:NH2	1:A:1170:GLU:HG3	2.09	0.66
2:D:103:ARG:NH1	2:D:106:ARG:HG3	2.11	0.66
1:C:1362:VAL:CG2	1:C:1377:THR:CG2	2.73	0.66
1:A:1372:ASP:OD1	1:A:1373:ASN:N	2.28	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
1:A:1234:LEU:CG	1:A:1235:GLY:H	2.09	0.66
1:B:1535:LYS:HZ3	1:B:1563:ARG:HH12	1.43	0.66
1:B:1592:MET:C	1:B:1592:MET:CE	2.64	0.66
1:C:1417:LEU:O	1:C:1418:LEU:CB	2.33	0.66
1:B:1112:ALA:O	1:B:1116:LEU:HB2	1.96	0.66
1:A:1261:VAL:HG13	1:A:1295:TYR:CZ	2.30	0.66
1:A:1336:LEU:HD12	1:A:1360:GLU:HB3	1.78	0.66
1:A:1327:PHE:CZ	2:F:104:LYS:CB	2.70	0.66
1:B:1277:VAL:O	1:B:1278:VAL:C	2.33	0.66
1:B:1296:PHE:O	1:B:1298:GLU:N	2.29	0.66
1:B:1600:ILE:O	1:B:1604:LYS:HG3	1.94	0.66
1:A:1409:GLN:HA	1:A:1413:GLU:HG2	0.75	0.66
1:A:1406:ARG:O	1:A:1409:GLN:HB3	1.96	0.66
1:B:1161:ARG:NE	1:B:1170:GLU:HB2	2.09	0.66
2:E:93:ASP:OD2	2:E:97:GLN:HG2	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: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:C:1108:TRP:CE2	1:C:1129:ILE:O	2.49	0.66
1:A:1379:MET:HE1	1:A:1406:ARG:HD3	1.78	0.66
1:B:1408:ILE:CG2	1:B:1412:LEU:HD22	2.26	0.66
1:B:1406:ARG:O	1:B:1409:GLN:HB3	1.96	0.66
1:A:1112:ALA:O	1:A:1116:LEU:HB2	1.95	0.66
1:B:1332:MET:SD	1:B:1360:GLU:CG	2.83	0.66
1:A:1596:MET:O	1:A:1597:PRO:O	2.13	0.66
1:C:1578:ARG:HD3	1:C:1582:VAL:HB	1.77	0.66
1:B:1108:TRP:CZ3	1:B:1129:ILE:HD12	2.31	0.66
1:C:1108:TRP:CZ2	1:C:1129:ILE:CA	2.79	0.66
1:A:1505:ILE:HD13	1:A:1505:ILE:N	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1474:GLU:O	2:E:141:ARG:CD	2.37	0.66
1:B:1181:ASN:O	1:B:1185:GLU:OE1	2.14	0.66
1:A:1161:ARG:NH2	1:A:1170:GLU:OE1	2.28	0.66
1:C:1505:ILE:HD13	1:C:1505:ILE:N	2.11	0.66
1:B:1527:LEU:HD21	1:B:1540:TYR:OH	1.94	0.66
1:B:1290:TYR:CD2	1:B:1299:LEU:CD1	2.57	0.66
1:A:1362:VAL:CG2	1:A:1377:THR:CG2	2.73	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:C:1592:MET:CE	1:C:1592:MET:C	2.64	0.66
1:B:1108:TRP:CZ2	1:B:1129:ILE:CA	2.79	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
2:D:154:ARG:HB3	2:D:154:ARG:NH1	2.11	0.66
1:A:1161:ARG:NE	1:A:1170:GLU:HB2	2.09	0.66
1:C:1166:GLU:CG	1:C:1168:TYR:CZ	2.79	0.66
2:E:112:ARG:O	2:E:113:LEU:C	2.32	0.66
1:C:1336:LEU:HD12	1:C:1360:GLU:HB3	1.78	0.65
1:A:1277:VAL:O	1:A:1278:VAL:C	2.33	0.65
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: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
1:B:1336:LEU:HD12	1:B:1360:GLU:HB3	1.78	0.65
1:C:1130:LYS:NZ	1:C:1156:TYR:O	2.26	0.65
1:A:1154:VAL:HG11	1:A:1180:THR:OG1	1.96	0.65
1:A:1296:PHE:O	1:A:1298:GLU:N	2.29	0.65
1:B:1257:CYS:HB3	1:B:1289:TYR:CE1	2.31	0.65
1:A:1563:ARG:HH12	2:F:181:UNK:HA	1.60	0.65
2:F:112:ARG:O	2:F:113:LEU:C	2.32	0.65
1:B:1401:VAL:HA	1:B:1404:TYR:CD1	2.31	0.65
1:B:1166:GLU:CG	1:B:1168:TYR:CZ	2.79	0.65
1:C:1165:ARG:CD	1:C:1170:GLU:OE1	2.45	0.65
1:C:1277:VAL:O	1:C:1278:VAL:C	2.33	0.65
1:B:1264:LYS:NZ	1:B:1268:LEU:HD13	2.10	0.65
1:A:1085:LEU:HD12	1:A:1095:ALA:HB1	1.78	0.65
1:A:1395:ILE:HG13	1:A:1404:TYR:HE2	1.52	0.65
2:F:134:ASP:O	2:F:137:GLU:CB	2.43	0.65
1:A:1206:TYR:CG	1:A:1226:ARG:HG3	2.31	0.65
1:C:1283:LEU:HD22	1:C:1313:HIS:NE2	2.11	0.65
1:B:1264:LYS:HG3	1:B:1266:PHE:CD2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1326:LYS:HZ3	1:B:1354:GLN:HG2	1.61	0.65
2:F:184:UNK:O	2:F:185:UNK:C	2.44	0.65
1:C:1108:TRP:CD1	1:C:1132:ASP:OD1	2.50	0.65
1:A:1407:ALA:O	1:A:1409:GLN:N	2.30	0.65
1:B:1443:LYS:HG2	1:B:1443:LYS:O	1.97	0.65
2:D:133:LYS:HA	2:D:133:LYS:HZ2	1.59	0.65
1:C:1412:LEU:CB	1:C:1419:LEU:HD13	2.26	0.65
1:B:1206:TYR:CG	1:B:1226:ARG:HG3	2.31	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:A:1165:ARG:CD	1:A:1170:GLU:OE1	2.45	0.65
1:C:1181:ASN:O	1:C:1185:GLU:OE1	2.14	0.65
1:A:1142:GLN:OE1	1:A:1143:ALA:N	2.30	0.65
1:C:1360:GLU:N	1:C:1360:GLU:OE1	2.30	0.65
1:B:1591:ILE:CG2	1:B:1592:MET:H	1.98	0.65
1:C:1602:VAL:CG2	2:E:203:UNK:CA	2.75	0.65
1:C:1085:LEU:CD2	1:C:1085:LEU:H	2.05	0.65
1:A:1350:ARG:HH21	1:A:1353:GLU:HB3	1.61	0.65
1:B:1379:MET:HE1	1:B:1406:ARG:HD3	1.78	0.65
1:C:1145:ASN:HD21	1:C:1150:TRP:HE1	1.42	0.65
1:A:1166:GLU:H	1:A:1170:GLU:HB3	1.58	0.65
2:E:154:ARG:NH1	2:E:154:ARG:HB3	2.11	0.65
1:A:1264:LYS:HG3	1:A:1266:PHE:CD2	2.32	0.65
1:A:1108:TRP:CZ3	1:A:1129:ILE:HD12	2.31	0.65
1:A:1401:VAL:HA	1:A:1404:TYR:CD1	2.31	0.65
2:F:109:GLN:O	2:F:112:ARG:HB3	1.97	0.65
1:B:1475:GLU:OE1	2:D:145:GLN:CG	2.29	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:C:1261:VAL:CG2	1:C:1295:TYR:CE2	2.77	0.65
1:B:1327:PHE:CA	2:D:104:LYS:NZ	2.53	0.65
1:B:1586:ALA:CB	1:B:1590:ASN:ND2	2.48	0.65
1:B:1347:LYS:HD3	1:B:1348:VAL:N	2.12	0.65
1:C:1407:ALA:O	1:C:1409:GLN:N	2.30	0.65
1:A:1166:GLU:CG	1:A:1168:TYR:CZ	2.79	0.65
1:B:1211:TYR:OH	1:B:1239:ALA:HB2	1.97	0.65
1:A:1209:LYS:CB	1:A:1230:THR:HG22	2.26	0.65
1:A:1601:GLN:HB2	1:B:1587:TRP:CH2	2.31	0.65
1:B:1085:LEU:CD2	1:B:1085:LEU:H	2.05	0.65
1:B:1362:VAL:CG2	1:B:1377:THR:HB	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:109:GLN:O	2:D:112:ARG:HB3	1.96	0.65
1:A:1104:GLU:HB2	1:A:1129:ILE:HA	1.79	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:155:ILE:N	2:D:155:ILE:HD13	2.12	0.65
1:B:1601:GLN:HE21	1:C:1587:TRP:HH2	1.45	0.64
1:B:1408:ILE:HG21	1:B:1412:LEU:HD22	1.79	0.64
1:C:1401:VAL:HA	1:C:1404:TYR:CD1	2.31	0.64
2:F:143:SER:O	2:F:147:GLU:HB2	1.97	0.64
1:C:1262:ASP:HB3	1:C:1293:ARG:NE	2.12	0.64
1:A:1578:ARG:HD3	1:A:1582:VAL:HB	1.77	0.64
1:A:1122:LYS:HA	1:A:1125:ILE:CG2	2.18	0.64
1:C:1122:LYS:HA	1:C:1125:ILE:CG2	2.18	0.64
2:F:162:GLN:O	2:F:164:PRO:N	2.30	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: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
1:A:1181:ASN:O	1:A:1185:GLU:OE1	2.14	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: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:1108:TRP:CD1	1:B:1132:ASP:OD1	2.50	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:B:1409:GLN:HA	1:B:1413:GLU:HG2	0.75	0.64
1:C:1443:LYS:O	1:C:1443:LYS:HG2	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:B:1402:GLU:OE1	1:B:1403:LEU:N	2.30	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:C:1195:ASN:O	1:C:1196:ALA:HB2	1.97	0.64
1:B:1142:GLN:OE1	1:B:1143:ALA:N	2.30	0.64
1:A:1211:TYR:OH	1:A:1239:ALA:HB2	1.97	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:1262:ASP:HB3	1:A:1293:ARG:NE	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1401:VAL:HA	1:A:1404:TYR:CE1	2.32	0.64
1:B:1165:ARG:CD	1:B:1170:GLU:OE1	2.45	0.64
1:A:1160:ALA:O	1:A:1164:ALA:N	2.30	0.64
1:B:1222:SER:OG	1:B:1223:ASN:N	2.30	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:C:1584:GLU:O	1:C:1587:TRP:N	2.28	0.64
2:F:191:UNK:O	2:F:193:UNK:N	2.30	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:1401:VAL:HA	1:B:1404:TYR:CE1	2.32	0.64
1:B:1160:ALA:O	1:B:1164:ALA:N	2.30	0.64
2:E:89:ILE:CB	2:E:90:ALA:HA	2.28	0.64
1:B:1215:LYS:HD3	1:B:1216:LEU:N	2.12	0.64
2:E:112:ARG:O	2:E:113:LEU:O	2.16	0.64
1:B:1350:ARG:HH21	1:B:1353:GLU:HB3	1.61	0.64
1:A:1412:LEU:CB	1:A:1419:LEU:HD13	2.26	0.64
1:B:1505:ILE:N	1:B:1505:ILE:HD13	2.11	0.64
1:C:1455:VAL:CG1	1:C:1456:GLN:H	1.96	0.64
1:C:1181:ASN:O	1:C:1185:GLU:OE2	2.15	0.64
1:B:1598:TYR:HA	1:C:1584:GLU:OE1	1.98	0.64
1:C:1602:VAL:CG2	2:E:203:UNK:C	2.44	0.64
1:B:1122:LYS:HA	1:B:1125:ILE:CG2	2.18	0.64
1:A:1402:GLU:OE1	1:A:1403:LEU:N	2.30	0.64
1:A:1450:PRO:HA	1:A:1453:ARG:CG	2.27	0.64
1:B:1407:ALA:O	1:B:1409:GLN:N	2.30	0.64
2:D:116:LEU:O	2:D:119:ALA:HB3	1.98	0.64
2:E:98:GLU:CA	2:E:101:SER:HB3	2.27	0.64
1:A:1181:ASN:O	1:A:1185:GLU:OE2	2.15	0.64
1:A:1188:GLU:C	1:A:1190:ILE:H	2.01	0.64
1:C:1188:GLU:C	1:C:1190:ILE:H	2.01	0.64
1:C:1496:ALA:HB3	1:C:1515:PHE:CE1	2.33	0.64
2:D:98:GLU:HB3	2:D:99:PRO:CD	2.23	0.64
2:D:143:SER:O	2:D:147:GLU:HB2	1.97	0.64
1:C:1290:TYR:CD2	1:C:1299:LEU:CD1	2.57	0.64
1:B:1277:VAL:O	1:B:1279:HIS:ND1	2.30	0.64
1:A:1122:LYS:HZ1	1:A:1147:SER:CB	2.09	0.64
1:C:1347:LYS:HD3	1:C:1348:VAL:N	2.12	0.64
1:A:1434:ARG:O	1:A:1434:ARG:HG2	1.98	0.64
1:C:1157:LEU:CD1	1:C:1173:LEU:HA	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1360:GLU:OE1	1:A:1360:GLU:N	2.30	0.64
1:C:1584:GLU:O	1:C:1586:ALA:N	2.31	0.64
1:A:1384:ASP:OD2	2:F:115:GLU:OE1	2.04	0.64
1:A:1171:THR:OG1	1:A:1196:ALA:HA	1.98	0.64
1:C:1234:LEU:CG	1:C:1235:GLY:H	2.09	0.64
1:B:1262:ASP:HB3	1:B:1293:ARG:NE	2.12	0.63
1:A:1414:PHE:HA	2:F:130:LYS:HD2	1.64	0.63
2:E:108:GLU:OE2	2:E:109:GLN:NE2	2.31	0.63
1:B:1597:PRO:O	1:C:1584:GLU:CD	2.36	0.63
1:A:1108:TRP:CD1	1:A:1132:ASP:OD1	2.50	0.63
1:C:1350:ARG:HH21	1:C:1353:GLU:HB3	1.61	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:1171:THR:OG1	1:C:1196:ALA:HA	1.99	0.63
1:C:1142:GLN:OE1	1:C:1143:ALA:N	2.30	0.63
1:C:1215:LYS:HD3	1:C:1216:LEU:N	2.12	0.63
1:B:1292:ASP:CB	2:D:97:GLN:CD	2.66	0.63
1:C:1586:ALA:CA	1:C:1590:ASN:OD1	2.46	0.63
1:A:1083:GLN:CD	1:A:1105:PRO:O	2.37	0.63
1:C:1434:ARG:HG2	1:C:1434:ARG:O	1.98	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:A:1356:HIS:CB	2:F:112:ARG:CZ	2.59	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:B:1171:THR:OG1	1:B:1196:ALA:HA	1.99	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: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:A:1598:TYR:OH	1:B:1588:ARG:HD3	1.97	0.63
2:F:112:ARG:O	2:F:113:LEU:O	2.16	0.63
1:A:1416:PRO:CD	2:F:130:LYS:CD	2.47	0.63
1:B:1434:ARG:HG2	1:B:1434:ARG:O	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:CG	1:C:1620:ARG:NH1	2.52	0.63
1:C:1351:ALA:HA	1:C:1354:GLN:HG2	1.80	0.63
1:B:1279:HIS:HD2	1:B:1282:GLU:C	2.02	0.63
1:B:1292:ASP:HA	2:D:97:GLN:HA	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1108:TRP:CH2	1:C:1129:ILE:CA	2.81	0.63
1:C:1445:LEU:N	1:C:1446:PRO:CD	2.61	0.63
1:B:1130:LYS:NZ	1:B:1156:TYR:O	2.26	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:B:1609:LYS:HA	1:B:1612:LYS:HG3	1.80	0.63
1:A:1459:ASN:ND2	1:A:1489:ASN:HB2	2.13	0.63
1:C:1516:LYS:HB3	1:C:1523:GLN:HB2	1.81	0.63
1:A:1351:ALA:HA	1:A:1354:GLN:HG2	1.80	0.63
1:B:1332:MET:SD	1:B:1357:LEU:HD13	2.39	0.63
1:B:1584:GLU:O	1:B:1586:ALA:N	2.31	0.63
2:F:182:UNK:O	2:F:184:UNK:N	2.31	0.63
1:B:1349:LEU:HB3	1:B:1353:GLU:OE1	1.98	0.63
1:A:1108:TRP:CH2	1:A:1129:ILE:CA	2.81	0.63
1:A:1496:ALA:HB3	1:A:1515:PHE:CE1	2.33	0.63
1:B:1496:ALA:HB3	1:B:1515:PHE:CE1	2.33	0.63
1:A:1157:LEU:CD1	1:A:1173:LEU:HA	2.28	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
2:E:130:LYS:O	2:E:133:LYS:HB2	1.99	0.63
1:A:1609:LYS:HA	1:A:1612:LYS:HG3	1.80	0.63
2:D:204:UNK:O	2:D:205:UNK:C	2.47	0.63
1:C:1317:PHE:N	1:C:1317:PHE:CD2	2.63	0.63
1:A:1279:HIS:HB2	1:A:1282:GLU:CB	2.29	0.63
1:C:1083:GLN:CD	1:C:1105:PRO:O	2.37	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
2:D:129:GLU:O	2:D:132:LYS:HG2	1.99	0.63
1:C:1409:GLN:C	1:C:1413:GLU:HB2	2.18	0.63
2:E:129:GLU:O	2:E:132:LYS:HG2	1.99	0.63
1:C:1188:GLU:OE2	1:C:1192:GLY:N	2.32	0.63
1:C:1159:MET:HA	1:C:1162:LYS:HZ3	1.64	0.63
1:B:1533:LEU:HD22	2:D:163:GLN:CB	2.29	0.62
2:F:119:ALA:C	2:F:123:MET:HG2	2.17	0.62
2:F:129:GLU:O	2:F:132:LYS:HG2	1.99	0.62
1:B:1188:GLU:C	1:B:1190:ILE:H	2.01	0.62
1:C:1411:TYR:O	1:C:1415:LYS:C	2.37	0.62
1:A:1166:GLU:OE1	1:A:1168:TYR:CE2	2.52	0.62
1:C:1177:LEU:O	1:C:1185:GLU:OE2	2.16	0.62
1:B:1215:LYS:C	1:B:1217:LEU:N	2.52	0.62
1:B:1282:GLU:OE2	1:B:1285:GLU:HB3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:1503:GLU:HG3	1:B:1504:LEU:N	2.14	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:1411:TYR:O	1:B:1415:LYS:C	2.37	0.62
1:A:1159:MET:HA	1:A:1162:LYS:HZ3	1.62	0.62
1:A:1091:ASN:ND2	1:A:1091:ASN:C	2.52	0.62
1:A:1152:GLU:N	1:A:1152:GLU:OE2	2.32	0.62
1:B:1584:GLU:O	1:B:1587:TRP:N	2.28	0.62
1:C:1586:ALA:CB	1:C:1590:ASN:ND2	2.48	0.62
1:C:1079:THR:CA	1:C:1105:PRO:HG3	2.30	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: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
2:D:124:GLU:HG3	2:D:125:GLN:N	2.12	0.62
1:B:1195:ASN:O	1:B:1196:ALA:HB2	1.97	0.62
1:B:1092:LEU:O	1:B:1094:ARG:N	2.28	0.62
1:C:1152:GLU:N	1:C:1152:GLU:OE2	2.32	0.62
1:B:1152:GLU:N	1:B:1152:GLU:OE2	2.32	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:1472:ILE:HB	1:B:1498:ARG:NH2	2.14	0.62
1:B:1177:LEU:O	1:B:1185:GLU:OE2	2.16	0.62
1:C:1167:SER:C	1:C:1171:THR:CB	2.57	0.62
1:A:1490:PHE:CD1	1:A:1492:ASN:OD1	2.52	0.62
1:C:1620:ARG:HG3	1:C:1620:ARG:NH1	2.15	0.62
1:B:1459:ASN:ND2	1:B:1489:ASN:HB2	2.13	0.62
1:C:1215:LYS:C	1:C:1217:LEU:N	2.52	0.62
1:B:1279:HIS:HE1	1:B:1286:LEU:CD2	1.98	0.62
1:B:1132:ASP:CG	1:B:1133:ASP:N	2.53	0.62
1:C:1358:TRP:CH2	1:C:1381:HIS:HE1	2.02	0.62
1:A:1503:GLU:HG3	1:A:1504:LEU:N	2.13	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
1:C:1409:GLN:HG3	1:C:1413:GLU:HG3	0.64	0.62
2:E:124:GLU:HG3	2:E:125:GLN:N	2.13	0.62
1:B:1165:ARG:NH2	1:B:1194:ASN:HD21	1.97	0.62
1:C:1166:GLU:OE1	1:C:1168:TYR:CE2	2.52	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:90:ALA:N	2:E:91:GLN:HA	2.13	0.62
1:A:1516:LYS:HB3	1:A:1523:GLN:HB2	1.81	0.62
1:A:1332:MET:SD	1:A:1357:LEU:HD13	2.39	0.62
1:B:1104:GLU:HB2	1:B:1129:ILE:HA	1.80	0.62
1:A:1079:THR:CA	1:A:1105:PRO:HG3	2.30	0.62
1:A:1349:LEU:HB3	1:A:1353:GLU:OE1	1.98	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: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:1617:GLU:HA	1:A:1620:ARG:HB2	1.82	0.62
1:A:1274:LEU:CA	1:A:1277:VAL:HG22	2.30	0.62
1:C:1079:THR:O	1:C:1105:PRO:HG2	1.94	0.62
1:A:1402:GLU:HA	1:A:1405:TYR:CE2	2.35	0.62
2:D:130:LYS:O	2:D:133:LYS:HB2	1.99	0.62
1:A:1164:ALA:O	1:A:1165:ARG:C	2.38	0.62
1:A:1215:LYS:C	1:A:1217:LEU:N	2.52	0.62
1:A:1620:ARG:CG	1:A:1620:ARG:NH1	2.52	0.62
1:C:1250:THR:O	1:C:1251:ARG:CB	2.46	0.62
1:A:1277:VAL:O	1:A:1279:HIS:ND1	2.30	0.62
1:B:1083:GLN:CD	1:B:1105:PRO:O	2.37	0.62
1:A:1409:GLN:HG3	1:A:1413:GLU:HG3	0.65	0.62
1:C:1402:GLU:HA	1:C:1405:TYR:CE2	2.35	0.62
1:B:1617:GLU:HA	1:B:1620:ARG:HB2	1.82	0.62
1:C:1459:ASN:ND2	1:C:1489:ASN:HB2	2.13	0.62
1:B:1079:THR:HG21	1:B:1105:PRO:HB3	1.81	0.62
1:C:1132:ASP:CG	1:C:1133:ASP:N	2.53	0.62
1:A:1166:GLU:C	1:A:1170:GLU:HG2	2.19	0.62
1:C:1160:ALA:O	1:C:1164:ALA:N	2.30	0.62
1:C:1332:MET:SD	1:C:1357:LEU:HD13	2.39	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: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:A:1350:ARG:HH21	1:A:1353:GLU:CB	2.12	0.62
1:A:1411:TYR:O	1:A:1415:LYS:C	2.37	0.62
1:C:1412:LEU:HD12	1:C:1419:LEU:HD22	1.81	0.62
1:B:1166:GLU:C	1:B:1170:GLU:HG2	2.19	0.62
1:C:1505:ILE:O	1:C:1509:ARG:N	2.33	0.62
1:C:1279:HIS:HD2	1:C:1282:GLU:C	2.02	0.61
1:C:1333:ARG:CA	1:C:1360:GLU:HG2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1250:THR:O	1:A:1251:ARG:CB	2.47	0.61
1:C:1104:GLU:HB2	1:C:1129:ILE:HA	1.80	0.61
1:A:1442:VAL:HG12	1:A:1444:GLN:HB2	1.82	0.61
1:B:1442:VAL:HG12	1:B:1444:GLN:HB2	1.82	0.61
1:C:1165:ARG:NH2	1:C:1194:ASN:HD21	1.97	0.61
1:C:1617:GLU:HA	1:C:1620:ARG:HB2	1.82	0.61
1:B:1297:GLU:O	1:B:1300:ILE:HG13	2.01	0.61
1:A:1562:LYS:C	1:A:1564:GLU:H	2.03	0.61
1:B:1381:HIS:N	1:B:1382:PRO:HD3	2.15	0.61
2:D:112:ARG:C	2:D:113:LEU:O	2.37	0.61
1:A:1381:HIS:N	1:A:1382:PRO:HD3	2.14	0.61
1:B:1164:ALA:O	1:B:1165:ARG:C	2.38	0.61
1:B:1516:LYS:HB3	1:B:1523:GLN:HB2	1.81	0.61
1:C:1282:GLU:OE2	1:C:1285:GLU:HB3	1.99	0.61
1:B:1533:LEU:CD2	2:D:163:GLN:CB	2.78	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:A:1505:ILE:O	1:A:1509:ARG:N	2.33	0.61
2:F:121:LYS:O	2:F:124:GLU:HB3	2.00	0.61
2:D:118:ALA:HA	2:D:121:LYS:HZ2	1.64	0.61
1:C:1442:VAL:HG12	1:C:1444:GLN:HB2	1.82	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
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:C:1365:TYR:HB2	1:C:1374:ALA:HB2	1.82	0.61
1:A:1408:ILE:CG2	1:A:1412:LEU:HB2	2.21	0.61
1:B:1505:ILE:O	1:B:1509:ARG:N	2.33	0.61
1:B:1154:VAL:CG1	1:B:1180:THR:OG1	2.48	0.61
1:C:1492:ASN:C	1:C:1493:ILE:HG12	2.21	0.61
1:C:1222:SER:OG	1:C:1223:ASN:N	2.30	0.61
1:C:1602:VAL:HG11	2:E:202:UNK:C	2.25	0.61
1:B:1079:THR:CA	1:B:1105:PRO:HG3	2.30	0.61
1:A:1504:LEU:CG	2:F:149:ASN:O	2.48	0.61
1:C:1395:ILE:CG1	1:C:1404:TYR:HE2	2.02	0.61
1:C:1166:GLU:C	1:C:1170:GLU:HG2	2.20	0.61
2:D:173:UNK:O	2:D:176:UNK:CB	2.49	0.61
1:B:1492:ASN:C	1:B:1493:ILE:HG12	2.21	0.61
1:A:1222:SER:OG	1:A:1223:ASN:N	2.30	0.61
2:E:146:VAL:HA	2:E:149:ASN:CG	2.20	0.61
1:B:1578:ARG:NH1	1:B:1583:LEU:HA	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1600:ILE:HG22	1:B:1604:LYS:HE3	1.81	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
2:D:121:LYS:O	2:D:124:GLU:HB3	2.00	0.61
1:A:1166:GLU:N	1:A:1170:GLU:HB3	2.16	0.61
1:C:1092:LEU:O	1:C:1094:ARG:N	2.28	0.61
1:C:1297:GLU:O	1:C:1300:ILE:HG13	2.00	0.61
1:A:1326:LYS:HB2	2:F:108:GLU:CB	2.31	0.61
1:B:1292:ASP:CG	2:D:97:GLN:HB3	2.20	0.61
1:A:1598:TYR:HE1	1:B:1588:ARG:CB	2.14	0.61
1:C:1533:LEU:HG	1:C:1535:LYS:H	1.66	0.61
1:A:1412:LEU:HD12	1:A:1419:LEU:HD22	1.81	0.61
1:B:1407:ALA:O	1:B:1408:ILE:C	2.39	0.61
1:B:1409:GLN:C	1:B:1413:GLU:HB2	2.18	0.61
1:B:1504:LEU:HD23	2:D:149:ASN:O	1.98	0.61
1:B:1191:ASN:C	1:B:1193:PRO:CD	2.69	0.61
1:C:1173:LEU:O	1:C:1177:LEU:HG	2.01	0.61
1:C:1503:GLU:HG3	1:C:1504:LEU:N	2.14	0.61
2:E:184:UNK:O	2:E:186:UNK:N	2.33	0.61
1:C:1274:LEU:CA	1:C:1277:VAL:HG22	2.30	0.61
1:B:1333:ARG:CA	1:B:1360:GLU:HG2	2.30	0.61
1:C:1562:LYS:C	1:C:1564:GLU:H	2.03	0.61
1:A:1079:THR:O	1:A:1105:PRO:HG2	1.94	0.61
1:C:1082:VAL:CG1	1:C:1102:CYS:SG	2.89	0.61
1:B:1451:TYR:O	1:B:1455:VAL:CG2	2.48	0.61
2:D:146:VAL:HA	2:D:149:ASN:CG	2.21	0.61
1:B:1173:LEU:O	1:B:1177:LEU:HG	2.01	0.61
1:A:1191:ASN:C	1:A:1193:PRO:CD	2.69	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
1:B:1274:LEU:CA	1:B:1277:VAL:HG22	2.30	0.61
1:A:1571:PHE:O	1:A:1577:LEU:HD21	2.01	0.61
1:B:1571:PHE:O	1:B:1577:LEU:HD21	2.01	0.61
1:B:1365:TYR:HB2	1:B:1374:ALA:HB2	1.82	0.61
2:F:130:LYS:O	2:F:133:LYS:HB2	2.00	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
1:B:1166:GLU:N	1:B:1170:GLU:HB3	2.16	0.61
1:C:1154:VAL:CG1	1:C:1180:THR:OG1	2.48	0.61
1:C:1116:LEU:HD11	1:C:1143:ALA:HB1	1.83	0.61
1:B:1091:ASN:ND2	1:B:1092:LEU:N	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1471:PHE:CB	1:B:1480:LEU:HB2	2.31	0.61
1:C:1191:ASN:C	1:C:1193:PRO:CD	2.69	0.61
1:A:1154:VAL:CG1	1:A:1180:THR:OG1	2.48	0.61
1:B:1112:ALA:C	1:B:1139:GLU:OE2	2.40	0.61
1:A:1122:LYS:CA	1:A:1125:ILE:HG22	2.21	0.60
1:A:1132:ASP:CG	1:A:1133:ASP:N	2.53	0.60
1:A:1407:ALA:O	1:A:1408:ILE:C	2.39	0.60
1:A:1445:LEU:N	1:A:1446:PRO:CD	2.61	0.60
2:F:112:ARG:HD3	2:F:112:ARG:C	2.20	0.60
1:C:1451:TYR:O	1:C:1455:VAL:CG2	2.48	0.60
1:A:1173:LEU:O	1:A:1177:LEU:HG	2.01	0.60
1:A:1112:ALA:C	1:A:1139:GLU:OE2	2.39	0.60
1:A:1325:SER:O	1:A:1355:ALA:CB	2.49	0.60
1:B:1325:SER:O	1:B:1355:ALA:CB	2.49	0.60
1:A:1082:VAL:CG1	1:A:1102:CYS:SG	2.89	0.60
1:A:1416:PRO:HG2	2:F:130:LYS:HA	1.83	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:1492:ASN:C	1:A:1493:ILE:HG12	2.21	0.60
1:B:1218:TYR:CE2	1:B:1227:LEU:HB2	2.37	0.60
1:A:1620:ARG:HG3	1:A:1620:ARG:NH1	2.15	0.60
1:A:1333:ARG:HA	1:A:1360:GLU:HG2	1.83	0.60
1:A:1584:GLU:O	1:A:1587:TRP:N	2.28	0.60
1:A:1122:LYS:NZ	1:A:1147:SER:HB2	2.15	0.60
1:A:1451:TYR:O	1:A:1455:VAL:CG2	2.48	0.60
2:F:146:VAL:HA	2:F:149:ASN:CG	2.21	0.60
1:C:1398:VAL:HG12	1:C:1400:ASN:H	1.65	0.60
1:A:1188:GLU:OE2	1:A:1192:GLY:N	2.33	0.60
1:C:1160:ALA:O	1:C:1165:ARG:N	2.34	0.60
1:A:1092:LEU:O	1:A:1094:ARG:N	2.28	0.60
1:C:1091:ASN:ND2	1:C:1092:LEU:N	2.49	0.60
1:B:1295:TYR:O	1:B:1296:PHE:C	2.40	0.60
1:A:1591:ILE:HG12	1:A:1592:MET:N	2.17	0.60
1:B:1591:ILE:HG12	1:B:1592:MET:N	2.17	0.60
1:C:1591:ILE:HG12	1:C:1592:MET:N	2.17	0.60
1:C:1358:TRP:CZ3	1:C:1377:THR:HG23	2.36	0.60
1:A:1428:PRO:O	1:A:1429:ARG:HB3	2.01	0.60
1:C:1408:ILE:HG21	1:C:1412:LEU:HD22	1.79	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1160:ALA:O	1:A:1165:ARG:N	2.34	0.60
1:C:1164:ALA:O	1:C:1165:ARG:C	2.37	0.60
1:C:1166:GLU:CD	1:C:1168:TYR:CE2	2.75	0.60
1:C:1154:VAL:HG11	1:C:1180:THR:CB	2.32	0.60
1:B:1490:PHE:CD1	1:B:1492:ASN:OD1	2.52	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:C:1122:LYS:NZ	1:C:1147:SER:HB2	2.15	0.60
1:C:1407:ALA:O	1:C:1408:ILE:C	2.39	0.60
2:E:95:LEU:HD13	2:E:95:LEU:O	2.01	0.60
1:A:1166:GLU:CD	1:A:1168:TYR:CE2	2.75	0.60
1:B:1617:GLU:HG2	1:B:1621:LYS:NZ	2.17	0.60
1:C:1295:TYR:O	1:C:1296:PHE:C	2.40	0.60
1:A:1295:TYR:O	1:A:1296:PHE:C	2.40	0.60
1:B:1293:ARG:CB	2:D:97:GLN:OE1	2.50	0.60
1:B:1578:ARG:HD3	1:B:1582:VAL:CG1	2.32	0.60
1:C:1600:ILE:HG22	1:C:1604:LYS:HE3	1.81	0.60
1:B:1122:LYS:NZ	1:B:1147:SER:HB2	2.15	0.60
1:A:1377:THR:HA	1:A:1381:HIS:CD2	2.36	0.60
1:A:1358:TRP:CZ3	1:A:1381:HIS:CE1	2.64	0.60
1:A:1409:GLN:C	1:A:1413:GLU:HB2	2.18	0.60
1:B:1450:PRO:HA	1:B:1453:ARG:CG	2.27	0.60
1:B:1166:GLU:CD	1:B:1168:TYR:CE2	2.75	0.60
1:A:1154:VAL:HG11	1:A:1180:THR:CB	2.31	0.60
2:D:173:UNK:O	2:D:174:UNK:CB	2.45	0.60
1:C:1218:TYR:CE2	1:C:1227:LEU:HB2	2.37	0.60
1:A:1091:ASN:ND2	1:A:1092:LEU:N	2.49	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
1:B:1162:LYS:NZ	1:B:1163:LYS:HZ1	1.98	0.60
1:B:1091:ASN:ND2	1:B:1091:ASN:C	2.52	0.60
2:E:143:SER:O	2:E:147:GLU:HB2	2.00	0.60
1:B:1562:LYS:C	1:B:1564:GLU:H	2.04	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
2:D:119:ALA:C	2:D:123:MET:HG2	2.15	0.60
1:A:1168:TYR:O	1:A:1172:GLU:HG2	2.02	0.60
1:B:1533:LEU:HG	1:B:1535:LYS:H	1.66	0.60
1:C:1586:ALA:HB1	1:C:1590:ASN:CG	2.22	0.60
2:F:195:UNK:N	2:F:197:UNK:CB	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1384:ASP:OD1	2:F:115:GLU:OE1	2.03	0.60
2:E:121:LYS:O	2:E:124:GLU:HB3	2.01	0.60
1:A:1167:SER:C	1:A:1171:THR:CB	2.57	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
2:D:186:UNK:N	2:D:190:UNK:CB	2.65	0.60
1:A:1513:TYR:CD1	1:A:1516:LYS:HE2	2.36	0.60
1:A:1586:ALA:CA	1:A:1590:ASN:OD1	2.46	0.60
1:C:1578:ARG:NH1	1:C:1583:LEU:HA	2.15	0.60
1:B:1597:PRO:O	1:C:1584:GLU:OE2	2.20	0.60
1:B:1079:THR:O	1:B:1105:PRO:HG2	1.94	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
2:D:114:GLN:CG	2:D:115:GLU:N	2.26	0.59
1:A:1401:VAL:CG2	1:A:1429:ARG:HE	2.12	0.59
1:C:1166:GLU:CD	1:C:1168:TYR:CZ	2.76	0.59
1:A:1580:ASP:CG	1:C:1605:GLU:HG3	2.22	0.59
1:A:1617:GLU:HG2	1:A:1621:LYS:NZ	2.17	0.59
1:C:1326:LYS:HG3	1:C:1326:LYS:O	1.96	0.59
1:A:1261:VAL:HG23	1:A:1293:ARG:HD2	1.84	0.59
1:B:1277:VAL:O	1:B:1279:HIS:N	2.35	0.59
1:A:1505:ILE:O	1:A:1509:ARG:HB2	2.02	0.59
1:B:1398:VAL:HG12	1:B:1400:ASN:H	1.65	0.59
1:A:1190:ILE:HD12	1:A:1216:LEU:HD11	1.84	0.59
1:A:1159:MET:C	1:A:1163:LYS:CD	2.70	0.59
1:C:1504:LEU:CD1	2:E:149:ASN:HD21	2.05	0.59
1:B:1206:TYR:CD1	1:B:1226:ARG:HG3	2.37	0.59
1:A:1277:VAL:HG12	1:A:1286:LEU:HD11	1.85	0.59
1:B:1121:VAL:O	1:B:1123:GLU:N	2.35	0.59
1:C:1121:VAL:O	1:C:1123:GLU:N	2.35	0.59
1:A:1350:ARG:HA	1:A:1350:ARG:NE	2.17	0.59
1:B:1160:ALA:O	1:B:1165:ARG:N	2.34	0.59
1:C:1185:GLU:O	1:C:1185:GLU:HG2	2.02	0.59
1:B:1116:LEU:HD11	1:B:1143:ALA:HB1	1.83	0.59
1:C:1112:ALA:C	1:C:1139:GLU:OE2	2.40	0.59
1:C:1206:TYR:CD1	1:C:1226:ARG:HG3	2.37	0.59
2:E:112:ARG:C	2:E:112:ARG:HD3	2.20	0.59
1:C:1277:VAL:CG2	1:C:1278:VAL:H	2.16	0.59
1:A:1279:HIS:HD2	1:A:1282:GLU:C	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1602:VAL:HG21	2:D:204:UNK:C	2.31	0.59
1:C:1546:ASP:OD2	1:C:1549:LEU:HD23	2.03	0.59
1:A:1254:LYS:HD2	1:A:1285:GLU:HG3	1.84	0.59
1:B:1333:ARG:HA	1:B:1360:GLU:HG2	1.83	0.59
1:A:1578:ARG:HD3	1:A:1582:VAL:CG1	2.32	0.59
1:C:1571:PHE:O	1:C:1577:LEU:HD21	2.01	0.59
1:A:1108:TRP:CE3	1:A:1129:ILE:CD1	2.83	0.59
1:A:1395:ILE:O	1:A:1404:TYR:OH	2.17	0.59
1:C:1401:VAL:HG22	1:C:1429:ARG:CZ	2.33	0.59
2:E:120:SER:HA	2:E:123:MET:HB2	1.85	0.59
1:C:1391:PHE:CD2	1:C:1411:TYR:OH	2.52	0.59
1:C:1209:LYS:CB	1:C:1230:THR:HG22	2.26	0.59
1:A:1459:ASN:HD21	1:A:1489:ASN:HB2	1.66	0.59
1:C:1459:ASN:HD21	1:C:1489:ASN:HB2	1.66	0.59
1:C:1091:ASN:C	1:C:1091:ASN:ND2	2.52	0.59
2:D:101:SER:O	2:D:105:TRP:HB2	2.03	0.59
1:C:1277:VAL:O	1:C:1279:HIS:N	2.35	0.59
1:B:1293:ARG:HG3	2:D:97:GLN:OE1	2.03	0.59
1:B:1601:GLN:HB3	1:C:1580:ASP:CG	2.22	0.59
1:B:1358:TRP:CZ3	1:B:1377:THR:HG23	2.36	0.59
1:A:1407:ALA:C	1:A:1409:GLN:N	2.55	0.59
1:B:1505:ILE:O	1:B:1509:ARG:HB2	2.02	0.59
1:C:1401:VAL:CG2	1:C:1429:ARG:HE	2.12	0.59
1:B:1166:GLU:CD	1:B:1168:TYR:CZ	2.76	0.59
1:C:1161:ARG:CZ	1:C:1165:ARG:HD2	2.33	0.59
1:A:1162:LYS:HG3	1:A:1163:LYS:HZ2	1.63	0.59
1:B:1159:MET:HA	1:B:1162:LYS:HZ3	1.65	0.59
1:A:1206:TYR:CD1	1:A:1226:ARG:HG3	2.37	0.59
2:F:188:UNK:O	2:F:189:UNK:C	2.50	0.59
1:B:1377:THR:HA	1:B:1381:HIS:CD2	2.36	0.59
1:A:1412:LEU:CB	1:A:1419:LEU:CD1	2.75	0.59
1:B:1505:ILE:CD1	2:D:152:ASN:HB3	2.33	0.59
1:B:1391:PHE:CD2	1:B:1411:TYR:OH	2.52	0.59
2:E:95:LEU:O	2:E:99:PRO:HG2	2.01	0.59
1:A:1218:TYR:CE2	1:A:1227:LEU:HB2	2.37	0.59
1:A:1533:LEU:HG	1:A:1535:LYS:H	1.66	0.59
1:B:1601:GLN:HB3	1:C:1580:ASP:OD1	2.03	0.59
1:C:1602:VAL:HG22	2:E:203:UNK:C	2.31	0.59
1:B:1122:LYS:CA	1:B:1125:ILE:HG22	2.21	0.59
1:C:1513:TYR:CD1	1:C:1516:LYS:HE2	2.36	0.59
1:C:1260:CYS:N	1:C:1293:ARG:NH1	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1300:ILE:O	1:C:1300:ILE:HD12	2.03	0.59
1:C:1333:ARG:HA	1:C:1360:GLU:HG2	1.83	0.59
1:A:1254:LYS:HD2	1:A:1285:GLU:CG	2.33	0.59
1:A:1591:ILE:CG2	1:A:1592:MET:N	2.60	0.59
1:A:1438:TYR:O	1:A:1442:VAL:HG21	2.02	0.59
1:B:1475:GLU:HG3	2:D:145:GLN:CG	2.32	0.59
2:D:174:UNK:HA	2:D:176:UNK:C	2.32	0.59
1:A:1116:LEU:HD11	1:A:1143:ALA:HB1	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
1:C:1254:LYS:HD2	1:C:1285:GLU:CG	2.33	0.59
1:B:1254:LYS:HD2	1:B:1285:GLU:HG3	1.84	0.59
1:A:1586:ALA:HB1	1:A:1590:ASN:CG	2.22	0.59
1:B:1350:ARG:NE	1:B:1350:ARG:HA	2.17	0.59
1:C:1122:LYS:HZ1	1:C:1147:SER:CB	2.13	0.59
1:A:1401:VAL:HG22	1:A:1429:ARG:CZ	2.33	0.59
1:C:1438:TYR:O	1:C:1442:VAL:HG21	2.02	0.59
1:B:1168:TYR:O	1:B:1172:GLU:HG2	2.02	0.59
1:A:1251:ARG:O	1:A:1252:THR:OG1	2.19	0.58
1:A:1533:LEU:HG	1:A:1535:LYS:HB2	1.85	0.58
1:C:1350:ARG:HA	1:C:1350:ARG:NE	2.17	0.58
1:A:1382:PRO:HG3	1:A:1410:PHE:CE1	2.38	0.58
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:1166:GLU:CD	1:A:1168:TYR:CZ	2.76	0.58
1:B:1459:ASN:HD21	1:B:1489:ASN:HB2	1.66	0.58
1:C:1254:LYS:HD2	1:C:1285:GLU:HG3	1.84	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:B:1253:TRP:O	1:B:1255:GLU:N	2.36	0.58
1:B:1293:ARG:CG	2:D:97:GLN:OE1	2.51	0.58
1:B:1591:ILE:O	1:B:1594:PHE:CB	2.51	0.58
2:F:195:UNK:C	2:F:197:UNK:CA	2.81	0.58
1:B:1111:LEU:HD21	1:B:1115:GLN:CG	2.33	0.58
2:F:120:SER:HA	2:F:123:MET:HB2	1.85	0.58
1:B:1427:SER:CB	1:B:1428:PRO:CD	2.42	0.58
1:C:1471:PHE:CB	1:C:1480:LEU:HB2	2.31	0.58
1:B:1167:SER:C	1:B:1171:THR:CB	2.57	0.58
1:B:1185:GLU:O	1:B:1185:GLU:HG2	2.02	0.58
1:C:1168:TYR:O	1:C:1172:GLU:HG2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1546:ASP:OD2	1:A:1549:LEU:HD23	2.03	0.58
1:B:1260:CYS:N	1:B:1293:ARG:NH1	2.51	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:1361:LEU:C	1:B:1361:LEU:CD2	2.72	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
1:A:1404:TYR:O	1:A:1407:ALA:CB	2.52	0.58
1:B:1451:TYR:O	1:B:1455:VAL:HG21	2.03	0.58
2:D:120:SER:HA	2:D:123:MET:HB2	1.85	0.58
1:B:1620:ARG:NH1	1:B:1620:ARG:HG3	2.15	0.58
1:A:1537:ALA:HA	1:A:1540:TYR:CE2	2.39	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:A:1260:CYS:N	1:A:1293:ARG:NH1	2.51	0.58
1:A:1591:ILE:O	1:A:1594:PHE:CB	2.51	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
1:C:1122:LYS:CG	1:C:1123:GLU:H	2.16	0.58
1:A:1428:PRO:O	1:A:1429:ARG:HB2	2.03	0.58
1:B:1504:LEU:HD13	1:B:1506:GLU:HG3	1.86	0.58
1:C:1472:ILE:CB	1:C:1498:ARG:HH21	2.13	0.58
1:A:1161:ARG:CZ	1:A:1165:ARG:HD2	2.33	0.58
2:D:174:UNK:CB	2:D:177:UNK:CA	2.81	0.58
1:C:1530:LYS:HG2	1:C:1531:ASP:OD1	2.03	0.58
1:A:1387:LYS:HB3	1:A:1390:GLN:HB2	1.85	0.58
2:E:189:UNK:C	2:E:195:UNK:CB	2.82	0.58
1:C:1537:ALA:HA	1:C:1540:TYR:CE2	2.39	0.58
1:A:1617:GLU:HG2	1:A:1621:LYS:HZ3	1.69	0.58
1:C:1261:VAL:HG23	1:C:1293:ARG:HD2	1.84	0.58
1:B:1254:LYS:HD2	1:B:1285:GLU:CG	2.33	0.58
1:A:1444:GLN:NE2	2:F:131:ALA:HA	2.11	0.58
1:B:1401:VAL:HG22	1:B:1429:ARG:CZ	2.33	0.58
1:C:1407:ALA:C	1:C:1409:GLN:N	2.55	0.58
1:A:1185:GLU:O	1:A:1185:GLU:HG2	2.02	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:B:1513:TYR:CD1	1:B:1516:LYS:HE2	2.36	0.58
1:B:1326:LYS:HG3	1:B:1326:LYS:O	1.96	0.58
1:C:1404:TYR:OH	1:C:1429:ARG:NH1	2.37	0.58
1:B:1161:ARG:CZ	1:B:1165:ARG:HD2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1161:ARG:CA	1:C:1165:ARG:HB2	2.33	0.58
1:B:1162:LYS:HZ2	1:B:1163:LYS:NZ	2.01	0.58
1:A:1253:TRP:O	1:A:1255:GLU:N	2.36	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:A:1111:LEU:HD21	1:A:1115:GLN:CG	2.33	0.58
1:C:1079:THR:CG2	1:C:1105:PRO:CD	2.68	0.58
1:B:1530:LYS:HG2	1:B:1531:ASP:OD1	2.03	0.58
2:E:119:ALA:O	2:E:123:MET:CB	2.51	0.58
1:A:1161:ARG:HA	1:A:1165:ARG:HB2	1.86	0.58
1:C:1159:MET:C	1:C:1163:LYS:CD	2.69	0.58
1:B:1546:ASP:OD2	1:B:1549:LEU:HD23	2.03	0.58
1:A:1610:VAL:O	1:A:1614:ASP:OD1	2.22	0.58
1:B:1261:VAL:HG23	1:B:1293:ARG:HD2	1.85	0.58
1:A:1451:TYR:O	1:A:1455:VAL:HG21	2.03	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
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:1407:ALA:C	1:B:1409:GLN:N	2.55	0.58
1:B:1444:GLN:HG3	2:D:134:ASP:CB	2.31	0.58
1:A:1171:THR:HA	1:A:1174:ILE:HD12	1.86	0.58
1:B:1387:LYS:HB3	1:B:1390:GLN:HB2	1.85	0.58
1:A:1211:TYR:HB2	1:A:1231:LEU:CD1	2.34	0.58
2:E:90:ALA:N	2:E:91:GLN:CA	2.59	0.58
1:C:1325:SER:O	1:C:1355:ALA:CB	2.49	0.58
1:A:1300:ILE:O	1:A:1300:ILE:HD12	2.03	0.58
1:B:1277:VAL:CG2	1:B:1278:VAL:H	2.16	0.58
1:B:1079:THR:CG2	1:B:1105:PRO:CD	2.67	0.58
1:A:1404:TYR:OH	1:A:1429:ARG:NH1	2.37	0.58
2:F:151:ILE:HG13	2:F:152:ASN:N	2.18	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
2:D:119:ALA:O	2:D:123:MET:CB	2.52	0.58
1:C:1451:TYR:O	1:C:1455:VAL:HG21	2.03	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: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:1332:MET:CG	1:C:1357:LEU:HD13	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1456:GLN:HG2	1:A:1487:TYR:CE2	2.39	0.57
1:C:1481:ARG:HH11	1:C:1510:ILE:HG12	1.69	0.57
1:B:1333:ARG:CB	1:B:1360:GLU:HG3	2.34	0.57
1:C:1361:LEU:C	1:C:1361:LEU:CD2	2.72	0.57
1:B:1456:GLN:HG2	1:B:1487:TYR:CE2	2.39	0.57
1:B:1148:GLY:CA	1:B:1150:TRP:CE3	2.82	0.57
2:E:108:GLU:CD	2:E:109:GLN:HG2	2.24	0.57
2:D:141:ARG:HB2	2:D:141:ARG:HH21	1.69	0.57
1:C:1510:ILE:O	1:C:1514:LEU:N	2.33	0.57
1:A:1465:GLU:OE2	1:A:1465:GLU:O	2.22	0.57
1:C:1465:GLU:OE2	1:C:1465:GLU:O	2.22	0.57
1:B:1610:VAL:O	1:B:1614:ASP:OD1	2.22	0.57
1:C:1535:LYS:HZ3	1:C:1563:ARG:HH12	1.50	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:B:1395:ILE:O	1:B:1404:TYR:OH	2.17	0.57
1:A:1277:VAL:CG2	1:A:1278:VAL:H	2.16	0.57
1:B:1262:ASP:H	1:B:1293:ARG:HD3	1.70	0.57
1:A:1122:LYS:HE3	1:A:1147:SER:HB2	1.87	0.57
1:A:1358:TRP:CD2	1:A:1381:HIS:CG	2.93	0.57
2:D:181:UNK:C	2:D:183:UNK:CA	2.82	0.57
1:A:1387:LYS:O	1:A:1390:GLN:N	2.30	0.57
2:E:191:UNK:O	2:E:192:UNK:CB	2.52	0.57
1:A:1089:ILE:O	1:A:1089:ILE:HG22	2.04	0.57
1:B:1277:VAL:HG12	1:B:1286:LEU:HD11	1.85	0.57
1:B:1300:ILE:O	1:B:1300:ILE:HD12	2.03	0.57
1:B:1597:PRO:HB2	1:C:1587:TRP:HZ3	1.65	0.57
1:A:1161:ARG:CA	1:A:1165:ARG:HB2	2.33	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:C:1089:ILE:O	1:C:1089:ILE:HG22	2.04	0.57
1:A:1279:HIS:CD2	1:A:1282:GLU:CA	2.88	0.57
2:F:182:UNK:C	2:F:184:UNK:N	2.64	0.57
1:B:1108:TRP:CE3	1:B:1129:ILE:CD1	2.83	0.57
1:C:1078:ASN:ND2	1:C:1101:ARG:CA	2.67	0.57
1:B:1372:ASP:O	1:B:1376:ILE:CG1	2.48	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
1:B:1617:GLU:HG2	1:B:1621:LYS:HZ3	1.70	0.57
1:C:1333:ARG:CB	1:C:1360:GLU:HG3	2.35	0.57
1:B:1085:LEU:O	1:B:1086:ILE:C	2.43	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:141:ARG:NH2	2:E:141:ARG:HB2	2.20	0.57
1:C:1262:ASP:H	1:C:1293:ARG:HD3	1.70	0.57
1:A:1261:VAL:HB	1:A:1293:ARG:HD3	1.87	0.57
1:B:1279:HIS:CD2	1:B:1282:GLU:CA	2.88	0.57
1:B:1533:LEU:HG	1:B:1535:LYS:HB2	1.85	0.57
1:A:1122:LYS:CG	1:A:1123:GLU:H	2.16	0.57
1:A:1361:LEU:C	1:A:1361:LEU:CD2	2.72	0.57
1:B:1416:PRO:HG3	2:D:130:LYS:CG	2.33	0.57
1:C:1476:ASP:OD1	1:C:1479:ALA:HB3	2.05	0.57
1:C:1171:THR:HA	1:C:1174:ILE:HD12	1.86	0.57
1:B:1465:GLU:OE2	1:B:1465:GLU:O	2.22	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:A:1333:ARG:CB	1:A:1360:GLU:HG3	2.35	0.57
1:B:1586:ALA:HB1	1:B:1590:ASN:CG	2.22	0.57
1:B:1078:ASN:ND2	1:B:1101:ARG:CA	2.67	0.57
1:A:1085:LEU:O	1:A:1086:ILE:C	2.43	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:A:1161:ARG:HH12	1:A:1193:PRO:HA	1.69	0.57
1:C:1161:ARG:HA	1:C:1165:ARG:HB2	1.86	0.57
1:B:1159:MET:C	1:B:1163:LYS:CD	2.70	0.57
1:A:1494:SER:HA	1:A:1497:GLN:HG3	1.86	0.57
1:C:1175:PHE:CE1	1:C:1204:ARG:HB2	2.40	0.57
1:C:1255:GLU:O	1:C:1258:PHE:HB3	2.05	0.57
1:A:1255:GLU:O	1:A:1258:PHE: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:A:1476:ASP:OD1	1:A:1479:ALA:HB3	2.05	0.57
2:F:141:ARG:HB2	2:F:141:ARG:HH21	1.70	0.57
1:C:1428:PRO:O	1:C:1429:ARG:HB2	2.04	0.57
1:B:1209:LYS:CB	1:B:1230:THR:HG22	2.26	0.57
1:C:1279:HIS:CD2	1:C:1282:GLU:CA	2.88	0.56
1:B:1358:TRP:CD2	1:B:1381:HIS:CG	2.93	0.56
1:A:1505:ILE:H	1:A:1505:ILE:CD1	2.18	0.56
1:C:1290:TYR:CE2	1:C:1299:LEU:HD13	2.34	0.56
1:A:1585:THR:O	1:A:1589:HIS:HB3	2.04	0.56
1:B:1584:GLU:O	1:B:1585:THR:C	2.43	0.56
1:B:1108:TRP:CB	1:B:1134:PRO:HA	2.35	0.56
1:C:1085:LEU:O	1:C:1086:ILE:C	2.43	0.56
1:C:1122:LYS:HE3	1:C:1147:SER:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1162:LYS:HZ3	1:A:1163:LYS:NZ	2.02	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:1524:SER:O	1:A:1527:LEU:HD13	2.05	0.56
1:A:1262:ASP:H	1:A:1293:ARG:HD3	1.70	0.56
1:B:1255:GLU:O	1:B:1258:PHE:HB3	2.05	0.56
1:A:1332:MET:HG3	1:A:1357:LEU:HD13	1.86	0.56
1:B:1261:VAL:HB	1:B:1293:ARG:HD3	1.87	0.56
1:C:1533:LEU:HG	1:C:1535:LYS:HB2	1.86	0.56
1:B:1533:LEU:C	1:B:1535:LYS:H	2.08	0.56
1:B:1111:LEU:HD21	1:B:1115:GLN:HG3	1.88	0.56
1:B:1082:VAL:HG11	1:B:1102:CYS:SG	2.45	0.56
1:A:1082:VAL:HG11	1:A:1102:CYS:SG	2.45	0.56
1:A:1078:ASN:ND2	1:A:1101:ARG:CA	2.67	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: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
2:D:150:LYS:O	2:D:154:ARG:HG3	2.05	0.56
2:D:127:TRP:HD1	2:D:128:ARG:N	2.03	0.56
1:B:1161:ARG:HH12	1:B:1193:PRO:HA	1.69	0.56
2:E:105:TRP:O	2:E:108:GLU:CG	2.51	0.56
1:B:1494:SER:HA	1:B:1497:GLN:HG3	1.86	0.56
1:B:1387:LYS:O	1:B:1390:GLN:N	2.30	0.56
2:E:184:UNK:C	2:E:186:UNK:N	2.68	0.56
1:A:1529:LYS:O	1:A:1532:SER:HB3	2.05	0.56
1:B:1529:LYS:O	1:B:1532:SER:HB3	2.05	0.56
1:C:1261:VAL:HB	1:C:1293:ARG:HD3	1.87	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:108:GLU:OE2	2:E:109:GLN:CD	2.42	0.56
2:E:151:ILE:HG13	2:E:152:ASN:N	2.20	0.56
2:E:150:LYS:O	2:E:154:ARG:HG3	2.04	0.56
1:C:1499:LEU:CB	1:C:1511:ALA:HB2	2.35	0.56
1:C:1533:LEU:C	1:C:1535:LYS:H	2.08	0.56
1:C:1591:ILE:CG2	1:C:1592:MET:H	1.98	0.56
1:C:1382:PRO:HG3	1:C:1410:PHE:CE1	2.38	0.56
1:A:1416:PRO:HG2	2:F:130:LYS:HG3	1.84	0.56
1:B:1426:LEU:O	1:B:1427:SER:C	2.44	0.56
1:B:1476:ASP:OD1	1:B:1479:ALA:HB3	2.05	0.56
2:E:127:TRP:HD1	2:E:128:ARG:N	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1157:LEU:O	1:A:1160:ALA:N	2.38	0.56
2:D:141:ARG:HB2	2:D:141:ARG:NH2	2.20	0.56
1:B:1317:PHE:HD1	1:B:1339:PHE:HB3	1.71	0.56
1:C:1082:VAL:HG11	1:C:1102:CYS:SG	2.45	0.56
1:C:1079:THR:CA	1:C:1102:CYS:HB3	2.32	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:1409:GLN:HA	1:B:1413:GLU:CB	2.34	0.56
1:B:1161:ARG:HA	1:B:1165:ARG:CB	2.35	0.56
1:A:1161:ARG:HA	1:A:1165:ARG:CB	2.35	0.56
1:B:1091:ASN:HD22	1:B:1092:LEU:N	2.04	0.56
2:E:184:UNK:O	2:E:185:UNK:C	2.53	0.56
1:B:1122:LYS:HE3	1:B:1147:SER:HB2	1.87	0.56
1:C:1148:GLY:CA	1:C:1150:TRP:CE3	2.82	0.56
1:B:1161:ARG:HA	1:B:1165:ARG:HB2	1.86	0.56
1:C:1387:LYS:HD2	1:C:1390:GLN:NE2	2.21	0.56
1:B:1387:LYS:HD2	1:B:1390:GLN:NE2	2.21	0.56
1:B:1211:TYR:HB2	1:B:1231:LEU:CD1	2.34	0.56
1:A:1426:LEU:O	1:A:1427:SER:C	2.44	0.56
1:C:1584:GLU:O	1:C:1585:THR:C	2.43	0.56
1:B:1082:VAL:CG1	1:B:1083:GLN:H	2.14	0.56
1:A:1111:LEU:CD2	1:A:1115:GLN:HG2	2.36	0.56
1:A:1368:TYR:HD1	1:A:1370:GLU:HG2	1.65	0.56
1:C:1404:TYR:O	1:C:1407:ALA:CB	2.51	0.56
1:B:1524:SER:O	1:B:1527:LEU:HD13	2.05	0.56
1:C:1111:LEU:HD21	1:C:1115:GLN:HG3	1.88	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:1161:ARG:HA	1:C:1165:ARG:CB	2.35	0.55
1:C:1505:ILE:CD1	1:C:1505:ILE:H	2.18	0.55
1:A:1091:ASN:HD22	1:A:1092:LEU:N	2.04	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:1554:LEU:HA	1:C:1557:PHE:CD2	2.39	0.55
2:F:184:UNK:O	2:F:186:UNK:N	2.39	0.55
1:A:1108:TRP:CB	1:A:1134:PRO:HA	2.36	0.55
1:C:1111:LEU:CD2	1:C:1115:GLN:HG2	2.36	0.55
1:A:1448:VAL:O	1:A:1452:LEU:HG	2.06	0.55
1:B:1448:VAL:O	1:B:1452:LEU:HG	2.06	0.55
2:D:134:ASP:OD1	2:D:135:LEU:N	2.39	0.55
1:C:1448:VAL:O	1:C:1452:LEU:HG	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1166:GLU:CA	1:A:1170:GLU:OE2	2.54	0.55
2:E:184:UNK:C	2:E:186:UNK:H	2.19	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:1412:LEU:CD2	1:C:1439:PHE:CE1	2.89	0.55
2:E:127:TRP:O	2:E:130:LYS:HB2	2.06	0.55
1:C:1166:GLU:CA	1:C:1170:GLU:OE2	2.54	0.55
1:C:1504:LEU:CD2	2:E:149:ASN:CG	2.67	0.55
1:A:1387:LYS:HD2	1:A:1390:GLN:NE2	2.21	0.55
1:C:1529:LYS:O	1:C:1532:SER:HB3	2.05	0.55
1:B:1361:LEU:HD22	1:B:1365:TYR:HE2	1.68	0.55
1:A:1404:TYR:O	1:A:1407:ALA:N	2.40	0.55
2:F:127:TRP:O	2:F:130:LYS:HB2	2.07	0.55
1:A:1415:LYS:C	2:F:130:LYS:HD3	2.24	0.55
1:B:1438:TYR:O	1:B:1442:VAL:HG21	2.02	0.55
1:A:1150:TRP:O	1:A:1153:LEU:HB3	2.07	0.55
2:E:94:ARG:O	2:E:96:THR:N	2.40	0.55
1:A:1161:ARG:NE	1:A:1165:ARG:CD	2.67	0.55
1:C:1387:LYS:O	1:C:1390:GLN:N	2.30	0.55
1:C:1332:MET:HG3	1:C:1357:LEU:HD13	1.86	0.55
1:B:1261:VAL:HG13	1:B:1295:TYR:CE2	2.42	0.55
1:A:1535:LYS:CA	1:A:1535:LYS:HE2	2.36	0.55
1:A:1584:GLU:O	1:A:1585:THR:C	2.43	0.55
1:A:1082:VAL:CG1	1:A:1083:GLN:N	2.68	0.55
1:C:1108:TRP:CB	1:C:1134:PRO:HA	2.35	0.55
1:A:1412:LEU:CD2	1:A:1439:PHE:CE1	2.89	0.55
1:C:1389:GLY:O	1:C:1392:LYS:N	2.39	0.55
2:F:102:ILE:HG13	2:F:103:ARG:N	2.22	0.55
1:B:1277:VAL:CG2	1:B:1278:VAL:N	2.70	0.55
1:B:1404:TYR:O	1:B:1407:ALA:N	2.40	0.55
2:D:127:TRP:O	2:D:130:LYS:HB2	2.06	0.55
2:E:141:ARG:HH21	2:E:141:ARG:HB2	1.70	0.55
1:C:1150:TRP:O	1:C:1153:LEU:HB3	2.07	0.55
2:E:98:GLU:HA	2:E:101:SER:CB	2.31	0.55
1:B:1158:GLN:CG	1:B:1159:MET:SD	2.95	0.55
1:C:1274:LEU:CA	1:C:1277:VAL:CG2	2.85	0.55
1:B:1253:TRP:HZ3	1:B:1276:ILE:CG2	1.98	0.55
1:A:1408:ILE:HG22	1:A:1412:LEU:CD2	2.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1162:LYS:NZ	1:C:1163:LYS:HZ1	2.04	0.55
1:B:1225:GLY:C	1:B:1227:LEU:H	2.10	0.55
1:B:1389:GLY:O	1:B:1392:LYS:N	2.39	0.55
1:C:1524:SER:O	1:C:1527:LEU:HD13	2.06	0.55
1:A:1533:LEU:C	1:A:1535:LYS:H	2.08	0.55
1:B:1084:VAL:O	1:B:1084:VAL:HG12	2.07	0.55
1:A:1082:VAL:CG1	1:A:1083:GLN:H	2.14	0.55
1:A:1510:ILE:O	1:A:1514:LEU:N	2.33	0.55
2:F:151:ILE:CA	2:F:154:ARG:HD3	2.36	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:1387:LYS:HB3	1:C:1390:GLN:HB2	1.85	0.55
1:C:1234:LEU:HG	1:C:1235:GLY:N	2.19	0.55
1:A:1209:LYS:HB2	1:A:1231:LEU:HD23	1.89	0.55
2:D:186:UNK:O	2:D:188:UNK:N	2.39	0.55
2:F:170:UNK:O	2:F:171:UNK:C	2.53	0.55
1:C:1274:LEU:O	1:C:1277:VAL:HG22	2.07	0.55
1:A:1274:LEU:CA	1:A:1277:VAL:CG2	2.85	0.55
1:A:1078:ASN:ND2	1:A:1101:ARG:CB	2.65	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:B:1469:ASN:HD22	1:B:1498:ARG:HH22	1.55	0.55
1:C:1376:ILE:HA	1:C:1379:MET:SD	2.47	0.55
1:C:1144:ALA:O	1:C:1145:ASN:HB2	2.07	0.55
1:B:1166:GLU:CA	1:B:1170:GLU:OE2	2.54	0.55
1:B:1227:LEU:HD23	1:B:1228:ALA:N	2.22	0.55
1:C:1301:THR:CA	1:C:1304:GLU:HG3	2.32	0.55
1:A:1586:ALA:CB	1:A:1590:ASN:OD1	2.55	0.55
1:B:1578:ARG:NH1	1:B:1583:LEU:HD23	2.20	0.55
1:A:1111:LEU:HD21	1:A:1115:GLN:HG3	1.88	0.55
1:A:1467:LEU:HG	1:A:1471:PHE:CE2	2.42	0.55
2:F:119:ALA:O	2:F:123:MET:CB	2.55	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:B:1539:GLN:HE22	2:D:179:UNK:CB	2.20	0.55
1:A:1227:LEU:HD23	1:A:1228:ALA:N	2.22	0.55
1:A:1389:GLY:O	1:A:1392:LYS:N	2.39	0.55
1:C:1317:PHE:HD1	1:C:1339:PHE:HB3	1.71	0.55
1:A:1317:PHE:HD1	1:A:1339:PHE:HB3	1.71	0.55
1:B:1528:CYS:O	1:B:1532:SER:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:1274:LEU:O	1:B:1277:VAL:HG22	2.07	0.54
1:A:1578:ARG:NH1	1:A:1583:LEU:HD23	2.20	0.54
1:A:1079:THR:CA	1:A:1102:CYS:HB3	2.33	0.54
1:C:1084:VAL:HG12	1:C:1084:VAL:O	2.07	0.54
1:C:1122:LYS:CE	1:C:1147:SER:HB2	2.37	0.54
1:A:1403:LEU:C	1:A:1403:LEU:CD1	2.74	0.54
1:A:1358:TRP:CD1	2:F:115:GLU:CD	2.80	0.54
1:C:1467:LEU:HG	1:C:1471:PHE:CE2	2.42	0.54
1:C:1161:ARG:NE	1:C:1165:ARG:CD	2.67	0.54
1:C:1493:ILE:HG22	1:C:1494:SER:N	2.22	0.54
1:B:1209:LYS:HB2	1:B:1231:LEU:HD23	1.89	0.54
1:C:1586:ALA:CB	1:C:1590:ASN:OD1	2.56	0.54
2:F:134:ASP:OD1	2:F:135:LEU:N	2.39	0.54
1:B:1427:SER:HB2	1:B:1428:PRO:HD2	1.85	0.54
1:C:1426:LEU:O	1:C:1427:SER:C	2.44	0.54
1:A:1157:LEU:HD13	1:A:1173:LEU:HA	1.89	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
2:E:170:UNK:O	2:E:171:UNK:C	2.53	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:1377:THR:CA	1:B:1381:HIS:HD2	2.20	0.54
1:A:1122:LYS:CG	1:A:1123:GLU:N	2.69	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:1148:GLY:CA	1:A:1150:TRP:CE3	2.82	0.54
1:A:1188:GLU:CD	1:A:1191:ASN:HD22	2.11	0.54
1:A:1261:VAL:HG13	1:A:1295:TYR:CE2	2.41	0.54
1:B:1601:GLN:HA	1:B:1604:LYS:HD2	1.89	0.54
1:B:1125:ILE:O	1:B:1129:ILE:CD1	2.55	0.54
1:A:1469:ASN:HD22	1:A:1498:ARG:NH2	2.05	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:1195:ASN:OD1	1:B:1195:ASN:O	2.26	0.54
2:E:94:ARG:C	2:E:96:THR:H	2.11	0.54
1:A:1195:ASN:O	1:A:1195:ASN:OD1	2.26	0.54
1:C:1195:ASN:O	1:C:1195:ASN:OD1	2.26	0.54
1:C:1225:GLY:C	1:C:1227:LEU:H	2.10	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1602:VAL:HG13	2:F:203:UNK:C	2.30	0.54
1:B:1274:LEU:HA	1:B:1277:VAL:HG22	1.89	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:1412:LEU:CD2	1:B:1439:PHE:CE1	2.89	0.54
1:C:1157:LEU:HD13	1:C:1173:LEU:HA	1.89	0.54
1:B:1493:ILE:HG22	1:B:1494:SER:N	2.22	0.54
1:C:1227:LEU:HD23	1:C:1228:ALA:N	2.22	0.54
1:A:1225:GLY:C	1:A:1227:LEU:H	2.10	0.54
1:A:1296:PHE:CZ	2:F:100:GLU:O	2.60	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:C:1404:TYR:O	1:C:1407:ALA:N	2.40	0.54
1:B:1161:ARG:NE	1:B:1165:ARG:CD	2.67	0.54
1:B:1159:MET:N	1:B:1159:MET:SD	2.81	0.54
1:A:1278:VAL:HG12	1:A:1278:VAL:O	2.08	0.54
1:A:1296:PHE:HZ	2:F:100:GLU:O	1.90	0.54
1:C:1125:ILE:O	1:C:1129:ILE:CD1	2.55	0.54
1:A:1449:LYS:HB3	1:A:1450:PRO:CD	2.37	0.54
1:B:1449:LYS:HB3	1:B:1450:PRO:HD3	1.90	0.54
1:A:1144:ALA:O	1:A:1145:ASN:HB2	2.07	0.54
1:C:1188:GLU:CD	1:C:1191:ASN:HD22	2.11	0.54
1:C:1158:GLN:CG	1:C:1159:MET:SD	2.95	0.54
1:C:1244:ALA:HB2	1:C:1253:TRP:HH2	1.68	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:B:1078:ASN:HD22	1:B:1101:ARG:CA	2.21	0.54
1:A:1084:VAL:O	1:A:1084:VAL:HG12	2.07	0.54
2:F:127:TRP:HD1	2:F:128:ARG:HG3	1.72	0.54
1:A:1608:THR:HG23	1:B:1607:LEU:HD13	1.89	0.54
1:B:1292:ASP:HB3	2:D:97:GLN:CD	2.27	0.54
1:B:1294:GLY:HA2	1:B:1296:PHE:CZ	2.43	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:B:1376:ILE:HA	1:B:1379:MET:SD	2.47	0.54
1:B:1403:LEU:C	1:B:1403:LEU:CD1	2.75	0.54
1:B:1144:ALA:O	1:B:1145:ASN:HB2	2.07	0.54
1:C:1411:TYR:HA	1:C:1415:LYS:HB2	1.87	0.54
1:C:1162:LYS:HZ2	1:C:1163:LYS:HZ1	1.56	0.54
1:A:1493:ILE:HG22	1:A:1494:SER:N	2.22	0.54
1:B:1303:LEU:HD12	1:B:1320:LEU:CD1	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1421:ASP:HA	1:A:1424:MET:SD	2.48	0.54
1:C:1294:GLY:HA2	1:C:1296:PHE:CZ	2.43	0.54
1:B:1282:GLU:O	1:B:1283:LEU:HD13	2.08	0.54
1:B:1535:LYS:CA	1:B:1535:LYS:HE2	2.36	0.54
1:C:1535:LYS:HE2	1:C:1535:LYS:CA	2.36	0.54
1:B:1108:TRP:CZ2	1:B:1129:ILE:O	2.61	0.54
2:F:166:ALA:O	2:F:167:ASP:CB	2.55	0.54
1:C:1409:GLN:HA	1:C:1413:GLU:CB	2.34	0.54
1:C:1608:THR:O	1:C:1612:LYS:HG3	2.08	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:B:1234:LEU:HG	1:B:1235:GLY:N	2.20	0.54
2:E:89:ILE:N	2:E:90:ALA:CA	2.70	0.54
1:A:1528:CYS:O	1:A:1532:SER:HB2	2.07	0.54
1:A:1354:GLN:HG3	1:A:1354:GLN:O	2.08	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
2:E:129:GLU:HB2	2:E:132:LYS:NZ	2.24	0.53
1:B:1157:LEU:O	1:B:1160:ALA:N	2.38	0.53
1:C:1091:ASN:HD22	1:C:1092:LEU:N	2.04	0.53
1:C:1282:GLU:O	1:C:1283:LEU:HD13	2.08	0.53
1:A:1584:GLU:C	1:A:1586:ALA:N	2.60	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:A:1282:GLU:O	1:A:1283:LEU:HD13	2.08	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:A:1586:ALA:HB3	1:A:1594:PHE:CD1	2.44	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:C:1590:ASN:ND2	1:C:1591:ILE:N	2.56	0.53
1:C:1377:THR:CA	1:C:1381:HIS:HD2	2.20	0.53
1:A:1449:LYS:NZ	2:F:141:ARG:HE	2.04	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:1414:PHE:CE1	2:E:123:MET:HG3	2.44	0.53
1:B:1150:TRP:O	1:B:1153:LEU:HB3	2.07	0.53
1:B:1144:ALA:CB	1:B:1153:LEU:HD13	2.38	0.53
1:B:1608:THR:O	1:B:1612:LYS:HG3	2.08	0.53
1:A:1598:TYR:CD1	1:B:1584:GLU:OE2	2.62	0.53
1:C:1598:TYR:CD2	2:E:199:UNK:CB	2.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1403:LEU:CD1	1:C:1403:LEU:C	2.74	0.53
1:C:1159:MET:CB	1:C:1163:LYS:HE2	2.39	0.53
2:E:93:ASP:HB3	2:E:97:GLN:CG	2.38	0.53
1:B:1570:LEU:HD23	1:B:1570:LEU:O	2.08	0.53
1:A:1360:GLU:O	1:A:1364:LEU:HG	2.08	0.53
1:B:1240:ALA:C	1:B:1242:ASP:H	2.11	0.53
1:B:1586:ALA:HB3	1:B:1594:PHE:CD1	2.44	0.53
1:B:1353:GLU:OE2	1:B:1361:LEU:HD11	2.09	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:C:1471:PHE:CA	1:C:1474:GLU:HG2	2.38	0.53
1:A:1317:PHE:N	1:A:1317:PHE:CD2	2.63	0.53
1:B:1499:LEU:CB	1:B:1511:ALA:HB2	2.35	0.53
1:C:1570:LEU:HD23	1:C:1570:LEU:O	2.08	0.53
1:C:1601:GLN:HA	1:C:1604:LYS:HD2	1.90	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:A:1368:TYR:O	1:A:1369:GLU:HB2	2.09	0.53
2:F:122:VAL:CG2	2:F:123:MET:HE2	2.39	0.53
1:B:1162:LYS:HG3	1:B:1163:LYS:HZ2	1.68	0.53
1:C:1368:TYR:O	1:C:1369:GLU:HB2	2.08	0.53
2:E:93:ASP:HB3	2:E:97:GLN:HG3	1.90	0.53
1:B:1421:ASP:HA	1:B:1424:MET:SD	2.48	0.53
1:A:1240:ALA:C	1:A:1242:ASP:H	2.12	0.53
2:E:178:UNK:C	2:E:180:UNK:N	2.70	0.53
1:C:1078:ASN:HD22	1:C:1101:ARG:CA	2.21	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:A:1170:GLU:HG2	1:A:1171:THR:N	2.24	0.53
1:A:1608:THR:O	1:A:1612:LYS:HG3	2.08	0.53
1:B:1234:LEU:C	1:B:1236:GLU:H	2.09	0.53
1:C:1345:ILE:H	1:C:1346:PRO:CD	2.18	0.53
1:B:1092:LEU:C	1:B:1094:ARG:H	2.12	0.53
1:A:1499:LEU:CB	1:A:1511:ALA:HB2	2.35	0.53
1:C:1421:ASP:HA	1:C:1424:MET:SD	2.48	0.53
1:C:1278:VAL:HG12	1:C:1278:VAL:O	2.08	0.53
1:A:1277:VAL:HG12	1:A:1286:LEU:CD1	2.39	0.53
1:B:1278:VAL:HG12	1:B:1278:VAL:O	2.08	0.53
1:B:1554:LEU:HA	1:B:1557:PHE:CD2	2.40	0.53
1:B:1368:TYR:O	1:B:1369:GLU:HB2	2.09	0.53
1:B:1358:TRP:CE3	1:B:1381:HIS:CG	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:112:ARG:O	2:D:112:ARG:NH1	2.42	0.53
1:B:1510:ILE:O	1:B:1514:LEU:N	2.33	0.53
1:B:1170:GLU:HG2	1:B:1171:THR:N	2.24	0.53
1:B:1157:LEU:HB2	1:B:1173:LEU:HD13	1.91	0.53
1:A:1159:MET:SD	1:A:1159:MET:N	2.81	0.53
1:B:1159:MET:CB	1:B:1163:LYS:HE2	2.39	0.53
1:B:1525:VAL:HG22	1:B:1525:VAL:O	2.09	0.53
1:C:1525:VAL:HG22	1:C:1525:VAL:O	2.08	0.53
2:E:151:ILE:CA	2:E:154:ARG:HD3	2.36	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: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:A:1108:TRP:CZ2	1:A:1129:ILE:O	2.61	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
1:B:1188:GLU:CD	1:B:1191:ASN:HD22	2.11	0.53
1:C:1157:LEU:HB2	1:C:1173:LEU:HD13	1.91	0.53
1:A:1159:MET:CB	1:A:1163:LYS:HE2	2.39	0.53
1:C:1162:LYS:HZ2	1:C:1163:LYS:NZ	2.06	0.53
1:A:1525:VAL:HG22	1:A:1525:VAL:O	2.09	0.53
1:B:1549:LEU:O	1:B:1552:GLU:HB2	2.09	0.53
2:F:180:UNK:O	2:F:181:UNK:C	2.57	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
1:B:1170:GLU:C	1:B:1172:GLU:N	2.62	0.53
1:C:1360:GLU:O	1:C:1364:LEU:HG	2.08	0.52
1:A:1566:PHE:HZ	2:F:177:UNK:HA	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:B:1584:GLU:C	1:B:1586:ALA:N	2.60	0.52
1:C:1578:ARG:HH11	1:C:1582:VAL:HG12	1.73	0.52
1:A:1584:GLU:OE2	1:C:1598:TYR:CD1	2.61	0.52
1:A:1078:ASN:CG	1:A:1101:ARG:C	2.67	0.52
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
2:E:155:ILE:O	2:E:156:ALA:HB3	2.09	0.52
2:D:98:GLU:CB	2:D:99:PRO:HD3	2.26	0.52
1:B:1317:PHE:CD2	1:B:1317:PHE:N	2.63	0.52
1:B:1461:LYS:HG2	1:B:1489:ASN:HD21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1570:LEU:O	1:A:1570:LEU:HD23	2.08	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:B:1083:GLN:HE22	1:B:1105:PRO:N	2.08	0.52
1:B:1358:TRP:CH2	1:B:1381:HIS:ND1	2.57	0.52
1:C:1358:TRP:CE3	1:C:1381:HIS:CG	2.97	0.52
1:A:1420:ASN:OD1	1:A:1447:LEU:O	2.27	0.52
1:C:1420:ASN:OD1	1:C:1447:LEU:O	2.27	0.52
1:B:1158:GLN:O	1:B:1162:LYS:NZ	2.30	0.52
1:B:1214:ALA:O	1:B:1218:TYR:CB	2.56	0.52
2:E:90:ALA:N	2:E:91:GLN:CB	2.67	0.52
1:A:1359:ALA:HB3	1:A:1360:GLU:OE1	2.10	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:C:1085:LEU:HD12	1:C:1095:ALA:CB	2.39	0.52
1:B:1445:LEU:HD23	1:B:1448:VAL:HG22	1.91	0.52
1:C:1469:ASN:HA	1:C:1472:ILE:HD12	1.91	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:1170:GLU:C	1:C:1172:GLU:N	2.63	0.52
2:D:102:ILE:O	2:D:106:ARG:HB2	2.09	0.52
1:C:1240:ALA:C	1:C:1242:ASP:H	2.11	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:1083:GLN:HE22	1:A:1105:PRO:N	2.07	0.52
1:C:1361:LEU:HD21	1:C:1365:TYR:OH	2.09	0.52
1:A:1419:LEU:HD23	1:A:1447:LEU:CD1	2.39	0.52
2:E:127:TRP:HD1	2:E:128:ARG:HG3	1.72	0.52
1:A:1236:GLU:C	1:A:1238:GLN:H	2.13	0.52
1:C:1354:GLN:HG3	1:C:1354:GLN:O	2.08	0.52
1:C:1583:LEU:O	1:C:1587:TRP:CE2	2.62	0.52
1:C:1566:PHE:CE2	2:E:177:UNK:O	2.62	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:1412:LEU:HD12	1:A:1419:LEU:HD21	1.65	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:A:1158:GLN:CG	1:A:1159:MET:SD	2.95	0.52
1:C:1461:LYS:HG2	1:C:1489:ASN:HD21	1.74	0.52
1:C:1258:PHE:O	1:C:1293:ARG:HD2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1279:HIS:CD2	1:C:1283:LEU:N	2.78	0.52
1:B:1359:ALA:HB3	1:B:1360:GLU:OE1	2.10	0.52
1:A:1554:LEU:HA	1:A:1557:PHE:CD2	2.40	0.52
1:B:1577:LEU:HD23	1:B:1577:LEU:N	2.25	0.52
1:A:1104:GLU:O	1:A:1108:TRP:CH2	2.62	0.52
1:C:1083:GLN:HE22	1:C:1105:PRO:N	2.07	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:C:1419:LEU:HD23	1:C:1447:LEU:CD1	2.39	0.52
1:A:1157:LEU:HB2	1:A:1173:LEU:HD13	1.91	0.52
2:D:155:ILE:O	2:D:156:ALA:HB3	2.09	0.52
1:B:1284:GLU:O	1:B:1287:ILE:HG13	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
1:A:1253:TRP:CE3	1:A:1276:ILE:HB	2.45	0.52
2:E:203:UNK:C	2:E:203:UNK:CB	2.79	0.52
1:A:1125:ILE:O	1:A:1129:ILE:HD13	2.10	0.52
1:A:1445:LEU:HD23	1:A:1445:LEU:O	2.10	0.52
1:A:1480:LEU:O	1:A:1484:ILE:HG12	2.10	0.52
1:B:1480:LEU:O	1:B:1484:ILE:HG12	2.10	0.52
1:B:1157:LEU:HD13	1:B:1173:LEU:HA	1.90	0.52
2:E:98:GLU:H	2:E:99:PRO:CD	2.21	0.52
1:A:1158:GLN:O	1:A:1163:LYS:NZ	2.43	0.52
1:A:1112:ALA:O	1:A:1116:LEU:HD23	2.10	0.52
1:C:1514:LEU:C	1:C:1514:LEU:CD2	2.78	0.52
2:E:154:ARG:CB	2:E:154:ARG:NH1	2.73	0.52
2:F:155:ILE:O	2:F:156:ALA:HB3	2.09	0.52
1:B:1286:LEU:O	1:B:1286:LEU:HG	2.10	0.52
1:B:1122:LYS:O	1:B:1126:ASP:N	2.43	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:C:1122:LYS:O	1:C:1126:ASP:N	2.43	0.52
1:A:1455:VAL:CG1	1:A:1456:GLN:H	1.96	0.52
1:A:1416:PRO:CD	2:F:130:LYS:HD3	2.27	0.52
1:B:1445:LEU:O	1:B:1445:LEU:HD23	2.10	0.52
1:B:1419:LEU:HD23	1:B:1447:LEU:CD1	2.39	0.52
1:B:1209:LYS:CB	1:B:1231:LEU:HB3	2.38	0.52
1:C:1284:GLU:O	1:C:1287:ILE:HG13	2.10	0.52
1:A:1363:PHE:O	1:A:1366:ASP:HB3	2.10	0.52
1:A:1577:LEU:HD23	1:A:1577:LEU:N	2.25	0.52
1:B:1585:THR:O	1:B:1589:HIS:HB3	2.04	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1577:LEU:N	1:C:1577:LEU:HD23	2.25	0.52
2:D:154:ARG:CB	2:D:154:ARG:NH1	2.73	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:B:1234:LEU:O	1:B:1236:GLU:OE1	2.28	0.52
1:C:1259:ALA:HA	1:C:1293:ARG:CZ	2.40	0.52
1:A:1258:PHE:O	1:A:1293:ARG:CZ	2.58	0.52
1:A:1259:ALA:HA	1:A:1293:ARG:CZ	2.40	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:A:1601:GLN:CG	1:A:1604:LYS:HD2	2.38	0.52
2:F:154:ARG:CB	2:F:154:ARG:NH1	2.73	0.52
1:B:1514:LEU:CD2	1:B:1514:LEU:C	2.77	0.52
1:B:1613:LEU:O	1:B:1616:SER:HB2	2.10	0.52
1:B:1258:PHE:O	1:B:1293:ARG:CZ	2.58	0.51
1:A:1533:LEU:C	1:A:1535:LYS:N	2.64	0.51
1:A:1586:ALA:CB	1:A:1594:PHE:CD1	2.93	0.51
1:B:1601:GLN:CG	1:B:1604:LYS:HD2	2.39	0.51
1:B:1125:ILE:O	1:B:1129:ILE:HD13	2.10	0.51
1:B:1382:PRO:CG	1:B:1410:PHE:HE1	2.22	0.51
1:A:1122:LYS:CE	1:A:1147:SER:HB2	2.37	0.51
1:C:1122:LYS:HZ2	1:C:1147:SER:HB2	1.76	0.51
1:A:1420:ASN:ND2	1:A:1447:LEU:HD13	2.25	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:B:1167:SER:CA	1:B:1171:THR:CB	2.88	0.51
1:C:1345:ILE:N	1:C:1346:PRO:HD2	2.19	0.51
1:C:1548:GLU:CD	1:C:1548:GLU:H	2.14	0.51
1:C:1286:LEU:HG	1:C:1286:LEU:O	2.10	0.51
1:A:1274:LEU:O	1:A:1278:VAL:HG23	2.10	0.51
1:B:1277:VAL:HG12	1:B:1286:LEU:CD1	2.39	0.51
2:F:188:UNK:O	2:F:191:UNK:N	2.43	0.51
1:B:1343:VAL:HG22	1:B:1344:ASN:N	2.25	0.51
1:A:1356:HIS:ND1	2:F:112:ARG:NH2	2.42	0.51
1:C:1480:LEU:O	1:C:1484:ILE:HG12	2.10	0.51
1:B:1236:GLU:C	1:B:1238:GLN:H	2.12	0.51
1:A:1235:GLY:O	1:A:1236:GLU:HB2	2.10	0.51
1:B:1513:TYR:HD1	1:B:1516:LYS:CE	2.22	0.51
1:A:1336:LEU:CD1	1:A:1360:GLU:HB3	2.40	0.51
2:F:103:ARG:HG3	2:F:103:ARG:O	2.10	0.51
1:A:1578:ARG:HD3	1:A:1582:VAL:CB	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1583:LEU:O	1:A:1587:TRP:CE2	2.62	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
1:B:1362:VAL:CG2	1:B:1377:THR:CB	2.82	0.51
1:A:1085:LEU:HB3	1:A:1098:PHE:CZ	2.46	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:B:1401:VAL:HG22	1:B:1429:ARG:NH2	2.26	0.51
2:D:124:GLU:HA	2:D:127:TRP:CE2	2.45	0.51
1:C:1423:LEU:HD12	1:C:1451:TYR:HB2	1.92	0.51
2:E:114:GLN:CG	2:E:115:GLU:N	2.26	0.51
1:C:1506:GLU:O	1:C:1510:ILE:HG13	2.10	0.51
1:C:1236:GLU:C	1:C:1238:GLN:H	2.13	0.51
1:A:1232:VAL:CG2	1:A:1233:HIS:H	2.09	0.51
1:C:1549:LEU:O	1:C:1552:GLU:HB2	2.09	0.51
1:A:1284:GLU:O	1:A:1287:ILE:HG13	2.10	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: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:1332:MET:O	1:A:1336:LEU:HG	2.11	0.51
1:B:1258:PHE:O	1:B:1293:ARG:HD2	2.09	0.51
2:D:127:TRP:HD1	2:D:128:ARG:HG3	1.72	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: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:1494:SER:O	1:C:1497:GLN:HB2	2.11	0.51
1:C:1387:LYS:HB2	1:C:1390:GLN:CG	2.40	0.51
1:B:1235:GLY:O	1:B:1236:GLU:HB2	2.11	0.51
1:A:1234:LEU:HG	1:A:1235:GLY:N	2.20	0.51
1:C:1092:LEU:C	1:C:1094:ARG:H	2.12	0.51
1:C:1272:CYS:HA	1:C:1275:HIS:CB	2.41	0.51
1:B:1250:THR:CB	1:B:1285:GLU:OE1	2.58	0.51
1:A:1590:ASN:ND2	1:A:1591:ILE:H	2.08	0.51
2:F:124:GLU:HA	2:F:127:TRP:CE2	2.45	0.51
1:B:1504:LEU:HD23	2:D:152:ASN:HB2	1.67	0.51
2:D:154:ARG:HB3	2:D:154:ARG:CZ	2.40	0.51
1:C:1162:LYS:HZ3	1:C:1163:LYS:NZ	2.06	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1549:LEU:O	1:A:1552:GLU:HB2	2.10	0.51
1:C:1262:ASP:N	1:C:1293:ARG:HD3	2.26	0.51
1:A:1279:HIS:CD2	1:A:1283:LEU:N	2.78	0.51
2:F:91:GLN:OE1	2:F:95:LEU:HG	2.11	0.51
1:B:1293:ARG:HG3	2:D:97:GLN:CD	2.31	0.51
1:B:1078:ASN:CG	1:B:1101:ARG:C	2.67	0.51
1:C:1125:ILE:O	1:C:1129:ILE:HD13	2.10	0.51
1:A:1420:ASN:HD21	1:A:1447:LEU:HD13	1.75	0.51
1:B:1469:ASN:ND2	1:B:1498:ARG:HH22	2.09	0.51
1:C:1420:ASN:ND2	1:C:1447:LEU:HD13	2.26	0.51
1:A:1170:GLU:C	1:A:1172:GLU:N	2.63	0.51
1:A:1195:ASN:O	1:A:1196:ALA:CB	2.59	0.51
1:A:1461:LYS:HG2	1:A:1489:ASN:HD21	1.74	0.51
1:A:1092:LEU:C	1:A:1094:ARG:H	2.12	0.51
1:C:1151:GLU:O	1:C:1151:GLU:HG2	2.10	0.51
1:A:1286:LEU:HG	1:A:1286:LEU:O	2.10	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:1586:ALA:CB	1:B:1594:PHE:CD1	2.93	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
2:F:129:GLU:HB2	2:F:132:LYS:NZ	2.24	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:1161:ARG:O	1:B:1165:ARG:CB	2.59	0.51
1:A:1494:SER:O	1:A:1497:GLN:HB2	2.10	0.51
1:C:1214:ALA:O	1:C:1218:TYR:CB	2.56	0.51
1:B:1112:ALA:O	1:B:1116:LEU:HD23	2.10	0.51
2:E:154:ARG:CZ	2:E:154:ARG:HB3	2.40	0.51
1:C:1208:GLU:OE1	1:C:1208:GLU:HA	2.11	0.51
1:C:1613:LEU:O	1:C:1616:SER:HB2	2.10	0.51
1:B:1363:PHE:O	1:B:1366:ASP:HB3	2.10	0.51
1:C:1240:ALA:O	1:C:1275:HIS:CE1	2.63	0.51
1:A:1279:HIS:NE2	1:A:1283:LEU:CA	2.73	0.51
1:B:1273:GLY:C	1:B:1275:HIS:N	2.64	0.51
1:B:1272:CYS:HA	1:B:1275:HIS:CB	2.41	0.51
1:B:1282:GLU:C	1:B:1283:LEU:HD13	2.31	0.51
1:B:1533:LEU:C	1:B:1535:LYS:N	2.64	0.51
1:B:1591:ILE:CG2	1:B:1592:MET:N	2.60	0.51
1:C:1578:ARG:NH1	1:C:1583:LEU:HD23	2.20	0.51
1:B:1078:ASN:ND2	1:B:1101:ARG:CB	2.65	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1361:LEU:HD22	1:A:1365:TYR:HE2	1.68	0.51
1:A:1506:GLU:O	1:A:1510:ILE:HG13	2.10	0.51
1:A:1474:GLU:O	2:F:145:GLN:OE1	2.28	0.51
2:F:154:ARG:HB3	2:F:154:ARG:CZ	2.40	0.51
2:F:162:GLN:O	2:F:163:GLN:C	2.48	0.51
1:B:1420:ASN:ND2	1:B:1447:LEU:HD13	2.26	0.51
2:D:133:LYS:HA	2:D:133:LYS:CE	2.41	0.51
1:C:1165:ARG:HG3	1:C:1170:GLU:OE1	2.11	0.51
1:C:1167:SER:HB2	1:C:1196:ALA:C	2.31	0.51
1:A:1234:LEU:O	1:A:1236:GLU:OE1	2.28	0.51
1:A:1303:LEU:HD12	1:A:1320:LEU:CD1	2.34	0.51
1:C:1363:PHE:O	1:C:1366:ASP:HB3	2.10	0.51
1:C:1282:GLU:C	1:C:1283:LEU:HD13	2.31	0.51
1:B:1262:ASP:H	1:B:1293:ARG:NH1	2.09	0.51
1:B:1253:TRP:CE3	1:B:1276:ILE:HB	2.45	0.51
1:B:1293:ARG:HA	2:D:97:GLN:OE1	2.05	0.51
1:A:1597:PRO:HB3	1:A:1601:GLN:NE2	2.25	0.51
1:C:1358:TRP:CE2	1:C:1381:HIS:CG	2.99	0.51
1:A:1471:PHE:CA	1:A:1474:GLU:HG2	2.38	0.51
1:B:1420:ASN:HD21	1:B:1447:LEU:HD13	1.75	0.51
1:A:1161:ARG:O	1:A:1165:ARG:CB	2.59	0.51
1:C:1317:PHE:CD1	1:C:1339:PHE:HB3	2.46	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:A:1327:PHE:HB3	2:F:104:LYS:NZ	2.24	0.51
2:F:98:GLU:C	2:F:102:ILE:HG23	2.31	0.51
1:C:1578:ARG:NE	1:C:1583:LEU:HD23	2.23	0.51
1:C:1584:GLU:C	1:C:1586:ALA:N	2.61	0.51
1:C:1601:GLN:CG	1:C:1604:LYS:HD2	2.39	0.51
1:C:1158:GLN:O	1:C:1163:LYS:NZ	2.43	0.51
1:A:1625:GLN:HE22	1:B:1621:LYS:NZ	2.09	0.51
1:C:1234:LEU:CG	1:C:1235:GLY:N	2.74	0.51
1:A:1317:PHE:CD1	1:A:1339:PHE:HB3	2.46	0.51
1:A:1198:ILE:HA	1:A:1201:VAL:CG2	2.41	0.51
1:A:1273:GLY:C	1:A:1275:HIS:N	2.64	0.50
1:B:1292:ASP:HB2	2:D:97:GLN:CD	2.31	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
2:F:118:ALA:HA	2:F:121:LYS:HZ2	1.73	0.50
2:F:118:ALA:CA	2:F:121:LYS:HE3	2.41	0.50
1:C:1445:LEU:HD23	1:C:1445:LEU:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:1167:SER:HB2	1:A:1196:ALA:C	2.31	0.50
1:A:1157:LEU:HD12	1:A:1173:LEU:HA	1.93	0.50
1:A:1214:ALA:O	1:A:1218:TYR:CB	2.56	0.50
1:A:1227:LEU:HD23	1:A:1227:LEU:C	2.32	0.50
1:C:1234:LEU:O	1:C:1236:GLU:OE1	2.28	0.50
1:A:1209:LYS:CB	1:A:1231:LEU:HB3	2.38	0.50
2:D:203:UNK:O	2:D:204:UNK:C	2.59	0.50
1:A:1208:GLU:HA	1:A:1208:GLU:OE1	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:1272:CYS:HA	1:A:1275:HIS:CB	2.41	0.50
1:B:1085:LEU:HB3	1:B:1098:PHE:CZ	2.46	0.50
1:B:1358:TRP:CE2	1:B:1381:HIS:CG	2.99	0.50
1:A:1449:LYS:HZ3	2:F:141:ARG:HE	1.58	0.50
1:B:1469:ASN:HD21	1:B:1498:ARG:HH12	1.58	0.50
1:B:1505:ILE:CD1	1:B:1505:ILE:H	2.18	0.50
1:C:1168:TYR:O	1:C:1172:GLU:CG	2.59	0.50
1:B:1494:SER:O	1:B:1497:GLN:HB2	2.10	0.50
1:B:1609:LYS:O	1:B:1612:LYS:HB2	2.12	0.50
1:C:1235:GLY:O	1:C:1236:GLU:HB2	2.11	0.50
1:A:1548:GLU:CD	1:A:1548:GLU:H	2.14	0.50
1:B:1240:ALA:O	1:B:1275:HIS:CE1	2.63	0.50
1:B:1335:HIS:C	1:B:1335:HIS:ND1	2.65	0.50
1:B:1572:THR:HG21	1:B:1599:PHE:CE2	2.46	0.50
1:C:1590:ASN:C	1:C:1591:ILE:HG22	2.32	0.50
1:B:1122:LYS:HZ1	1:B:1147:SER:HG	1.49	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:A:1358:TRP:CE2	1:A:1381:HIS:CG	2.99	0.50
1:A:1414:PHE:CB	2:F:130:LYS:HZ1	2.21	0.50
2:E:118:ALA:HA	2:E:121:LYS:HZ2	1.76	0.50
2:E:118:ALA:CA	2:E:121:LYS:HE3	2.41	0.50
1:A:1149:ASN:O	1:A:1153:LEU:HB3	2.12	0.50
1:C:1161:ARG:O	1:C:1165:ARG:CB	2.59	0.50
1:B:1158:GLN:O	1:B:1163:LYS:NZ	2.43	0.50
1:C:1251:ARG:O	1:C:1252:THR:OG1	2.19	0.50
1:A:1282:GLU:C	1:A:1283:LEU:HD13	2.31	0.50
1:A:1262:ASP:N	1:A:1293:ARG:HD3	2.26	0.50
1:B:1262:ASP:N	1:B:1293:ARG:HD3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1566:PHE:HE2	2:E:177:UNK:O	1.94	0.50
1:B:1122:LYS:CG	1:B:1123:GLU:H	2.16	0.50
1:A:1435:ALA:O	1:A:1439:PHE:CD2	2.64	0.50
1:A:1514:LEU:C	1:A:1514:LEU:CD2	2.77	0.50
1:B:1423:LEU:HD12	1:B:1451:TYR:HB2	1.92	0.50
1:B:1168:TYR:O	1:B:1172:GLU:CG	2.59	0.50
1:B:1375:ILE:CD1	1:B:1394:ILE:HB	2.39	0.50
1:C:1195:ASN:O	1:C:1196:ALA:CB	2.59	0.50
1:A:1159:MET:HA	1:A:1163:LYS:HE2	1.70	0.50
1:A:1580:ASP:CG	1:C:1605:GLU:CG	2.79	0.50
1:B:1548:GLU:H	1:B:1548:GLU:CD	2.14	0.50
1:A:1613:LEU:O	1:A:1616:SER:HB2	2.10	0.50
1:A:1572:THR:HG21	1:A:1599:PHE:CE2	2.46	0.50
1:C:1572:THR:HG21	1:C:1599:PHE:CE2	2.46	0.50
1:C:1078:ASN:CG	1:C:1101:ARG:C	2.67	0.50
1:A:1401:VAL:HG22	1:A:1429:ARG:NH2	2.26	0.50
1:A:1382:PRO:CG	1:A:1410:PHE:HE1	2.22	0.50
2:F:127:TRP:CD1	2:F:128:ARG:N	2.80	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:1469:ASN:ND2	1:C:1498:ARG:HH22	2.09	0.50
1:B:1157:LEU:HD12	1:B:1173:LEU:HA	1.93	0.50
1:A:1168:TYR:O	1:A:1172:GLU:CG	2.59	0.50
1:A:1188:GLU:C	1:A:1190:ILE:N	2.65	0.50
1:C:1343:VAL:HG22	1:C:1344:ASN:N	2.25	0.50
1:B:1273:GLY:O	1:B:1277:VAL:HG13	2.12	0.50
1:B:1336:LEU:CD1	1:B:1360:GLU:HB3	2.40	0.50
1:A:1590:ASN:C	1:A:1591:ILE:HG22	2.32	0.50
1:C:1597:PRO:HB3	1:C:1601:GLN:NE2	2.25	0.50
2:F:192:UNK:O	2:F:195:UNK:CB	2.60	0.50
1:C:1085:LEU:HB3	1:C:1098:PHE:CZ	2.46	0.50
1:A:1448:VAL:CA	1:A:1451:TYR:HB3	2.42	0.50
2:D:129:GLU:HB2	2:D:132:LYS:NZ	2.24	0.50
1:C:1405:TYR:CE2	1:C:1434:ARG:NH1	2.80	0.50
1:C:1375:ILE:CD1	1:C:1394:ILE:HB	2.39	0.50
1:A:1165:ARG:HG3	1:A:1170:GLU:OE1	2.11	0.50
1:A:1166:GLU:C	1:A:1170:GLU:CG	2.80	0.50
1:C:1609:LYS:O	1:C:1612:LYS:HB2	2.11	0.50
1:B:1227:LEU:HD23	1:B:1227:LEU:C	2.32	0.50
1:A:1135:SER:O	1:A:1136:SER:HB2	2.12	0.50
2:D:188:UNK:C	2:D:190:UNK:H2	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1317:PHE:CD1	1:B:1339:PHE:HB3	2.46	0.50
1:B:1281:ASP:O	1:B:1281:ASP:OD1	2.30	0.50
1:C:1270:GLN:NE2	1:C:1295:TYR:CE1	2.80	0.50
1:A:1262:ASP:H	1:A:1293:ARG:NH1	2.09	0.50
2:F:114:GLN:CG	2:F:115:GLU:N	2.26	0.50
1:B:1496:ALA:HB2	1:B:1514:LEU:HD13	1.94	0.50
2:D:127:TRP:CD1	2:D:128:ARG:N	2.80	0.50
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:B:1165:ARG:HG3	1:B:1170:GLU:OE1	2.11	0.50
1:B:1198:ILE:HA	1:B:1201:VAL:CG2	2.41	0.50
1:C:1162:LYS:NZ	1:C:1163:LYS:HZ2	2.09	0.50
1:C:1135:SER:O	1:C:1136:SER:HB2	2.11	0.50
1:A:1135:SER:O	1:A:1136:SER:CB	2.60	0.50
1:B:1617:GLU:CG	1:B:1621:LYS:HZ2	2.24	0.50
1:C:1513:TYR:HA	1:C:1516:LYS:HE2	1.93	0.50
1:B:1175:PHE:HE1	1:B:1200:GLN:HB3	1.77	0.50
1:C:1273:GLY:O	1:C:1277:VAL:HG13	2.12	0.50
1:A:1335:HIS:C	1:A:1335:HIS:ND1	2.65	0.50
1:B:1270:GLN:NE2	1:B:1295:TYR:CE1	2.80	0.50
1:B:1085:LEU:CD1	1:B:1098:PHE:CE1	2.84	0.50
1:B:1377:THR:O	1:B:1381:HIS:HB2	2.11	0.50
1:C:1382:PRO:CG	1:C:1410:PHE:HE1	2.22	0.50
1:A:1455:VAL:O	1:A:1456:GLN:HB3	2.12	0.50
1:B:1395:ILE:CD1	1:B:1403:LEU:HD12	2.42	0.50
1:C:1422:LEU:HD22	1:C:1422:LEU:O	2.12	0.50
2:D:178:UNK:O	2:D:181:UNK:CB	2.60	0.50
1:C:1167:SER:OG	1:C:1168:TYR:N	2.42	0.50
1:C:1227:LEU:HD23	1:C:1227:LEU:C	2.32	0.50
1:A:1281:ASP:O	1:A:1281:ASP:OD1	2.30	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:B:1263:GLY:O	1:B:1264:LYS:CB	2.60	0.50
1:B:1277:VAL:HG11	1:B:1302:MET:HE2	1.94	0.50
1:A:1592:MET:CA	1:A:1592:MET:CE	2.90	0.50
1:B:1600:ILE:HA	1:B:1603:MET:CE	2.42	0.50
1:C:1533:LEU:C	1:C:1535:LYS:N	2.64	0.50
1:C:1578:ARG:CD	1:C:1582:VAL:HB	2.42	0.50
2:F:178:UNK:C	2:F:180:UNK:N	2.74	0.50
1:C:1377:THR:O	1:C:1381:HIS:HB2	2.11	0.50
1:A:1496:ALA:HB2	1:A:1514:LEU:HD13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1435:ALA:O	1:C:1439:PHE:CD2	2.64	0.50
2:E:127:TRP:CD1	2:E:128:ARG:N	2.80	0.50
1:A:1148:GLY:HA3	1:A:1150:TRP:CZ3	2.41	0.50
1:C:1130:LYS:CB	1:C:1156:TYR:CE1	2.94	0.50
1:A:1167:SER:CA	1:A:1171:THR:HB	2.41	0.50
1:A:1609:LYS:O	1:A:1612:LYS:HB2	2.11	0.50
1:C:1496:ALA:HB2	1:C:1514:LEU:HD13	1.94	0.50
1:C:1301:THR:O	1:C:1304:GLU:HB2	2.12	0.49
1:A:1250:THR:CB	1:A:1285:GLU:OE1	2.58	0.49
1:B:1592:MET:CE	1:B:1592:MET:CA	2.90	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: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
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
1:B:1167:SER:CA	1:B:1171:THR:HB	2.41	0.49
1:B:1162:LYS:HZ3	1:B:1163:LYS:NZ	2.10	0.49
1:C:1389:GLY:O	1:C:1392:LYS:HB2	2.12	0.49
1:B:1208:GLU:OE1	1:B:1208:GLU:HA	2.11	0.49
1:C:1335:HIS:C	1:C:1335:HIS:ND1	2.65	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: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:B:1195:ASN:O	1:B:1196:ALA:CB	2.59	0.49
1:A:1193:PRO:HG2	1:A:1194:ASN:H	1.78	0.49
1:B:1135:SER:O	1:B:1136:SER:CB	2.60	0.49
1:A:1301:THR:CA	1:A:1304:GLU:HG3	2.31	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:B:1282:GLU:CG	1:B:1283:LEU:N	2.61	0.49
1:A:1452:LEU:HD13	1:A:1467:LEU:CD1	2.42	0.49
1:C:1395:ILE:CD1	1:C:1403:LEU:HD12	2.42	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
2:E:112:ARG:HD3	2:E:113:LEU:N	2.27	0.49
1:C:1077:VAL:C	1:C:1079:THR:H	2.15	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:1414:PHE:HB2	2:F:130:LYS:HZ1	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1423:LEU:HD12	1:A:1451:TYR:HB2	1.92	0.49
2:F:126:GLU:HG3	2:F:130:LYS:HZ1	1.75	0.49
2:F:133:LYS:CE	2:F:133:LYS:HA	2.41	0.49
1:B:1435:ALA:O	1:B:1439:PHE:CD2	2.65	0.49
1:C:1402:GLU:HA	1:C:1405:TYR:CD2	2.47	0.49
1:C:1456:GLN:HG3	1:C:1456:GLN:O	2.05	0.49
1:A:1167:SER:CA	1:A:1171:THR:H	2.24	0.49
1:C:1135:SER:O	1:C:1136:SER:CB	2.59	0.49
1:A:1234:LEU:CG	1:A:1235:GLY:N	2.74	0.49
2:D:155:ILE:O	2:D:156:ALA:CB	2.60	0.49
1:A:1513:TYR:HA	1:A:1516:LYS:HE2	1.93	0.49
1:B:1284:GLU:C	1:B:1284:GLU:OE2	2.51	0.49
1:C:1281:ASP:O	1:C:1281:ASP:OD1	2.30	0.49
1:A:1277:VAL:CG2	1:A:1278:VAL:N	2.70	0.49
1:A:1600:ILE:HA	1:A:1603:MET:CE	2.42	0.49
2:F:182:UNK:O	2:F:183:UNK:C	2.61	0.49
1:A:1103:ASN:HA	1:A:1128:TYR:HE2	1.78	0.49
1:A:1377:THR:O	1:A:1381:HIS:HB2	2.11	0.49
2:F:154:ARG:HH11	2:F:154:ARG:CB	2.26	0.49
1:B:1188:GLU:C	1:B:1190:ILE:N	2.65	0.49
1:A:1389:GLY:O	1:A:1392:LYS:HB2	2.12	0.49
1:A:1234:LEU:C	1:A:1236:GLU:H	2.10	0.49
1:C:1336:LEU:CD1	1:C:1360:GLU:HB3	2.40	0.49
1:A:1592:MET:HE2	1:A:1592:MET:C	2.21	0.49
1:C:1600:ILE:HA	1:C:1603:MET:CE	2.42	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:C:1111:LEU:O	1:C:1115:GLN:HB2	2.13	0.49
1:B:1452:LEU:HD13	1:B:1467:LEU:CD1	2.42	0.49
1:C:1408:ILE:HG22	1:C:1412:LEU:CG	2.41	0.49
1:B:1167:SER:HB2	1:B:1196:ALA:C	2.31	0.49
1:A:1158:GLN:OE1	1:A:1159:MET:HE1	2.13	0.49
1:B:1230:THR:O	1:B:1231:LEU:CB	2.61	0.49
1:A:1513:TYR:HA	1:A:1516:LYS:HG2	1.95	0.49
2:F:95:LEU:O	2:F:99:PRO:HD2	2.13	0.49
1:B:1590:ASN:C	1:B:1591:ILE:HG22	2.32	0.49
1:B:1600:ILE:HA	1:B:1603:MET:HE2	1.95	0.49
1:C:1592:MET:CE	1:C:1592:MET:CA	2.90	0.49
1:A:1422:LEU:HD22	1:A:1422:LEU:O	2.12	0.49
1:A:1414:PHE:CD1	2:F:127:TRP:O	2.48	0.49
2:D:152:ASN:O	2:D:153:ASN:CB	2.58	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1167:SER:CA	1:C:1171:THR:OG1	2.61	0.49
1:B:1389:GLY:O	1:B:1392:LYS:HB2	2.13	0.49
1:B:1524:SER:C	1:B:1526:GLU:H	2.16	0.49
1:B:1211:TYR:CZ	1:B:1235:GLY:HA3	2.48	0.49
1:C:1284:GLU:C	1:C:1284:GLU:OE2	2.51	0.49
1:A:1277:VAL:HG11	1:A:1302:MET:HE2	1.95	0.49
2:F:98:GLU:O	2:F:102:ILE:N	2.45	0.49
1:A:1345:ILE:H	1:A:1346:PRO:CD	2.18	0.49
1:A:1475:GLU:HB3	2:F:149:ASN:HD22	1.67	0.49
2:F:167:ASP:O	2:F:168:ILE:O	2.31	0.49
2:D:122:VAL:CG2	2:D:123:MET:HE1	2.42	0.49
2:D:154:ARG:CB	2:D:154:ARG:HH11	2.26	0.49
1:C:1414:PHE:C	1:C:1416:PRO:HD3	2.20	0.49
1:B:1167:SER:OG	1:B:1168:TYR:N	2.42	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:1461:LYS:HG2	1:A:1489:ASN:ND2	2.28	0.49
1:C:1329:PRO:O	1:C:1332:MET:N	2.44	0.49
1:A:1244:ALA:HB2	1:A:1253:TRP:HH2	1.68	0.49
1:A:1282:GLU:CG	1:A:1283:LEU:N	2.61	0.49
1:B:1251:ARG:O	1:B:1252:THR:OG1	2.20	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:C:1569:CYS:O	1:C:1572:THR:OG1	2.31	0.49
1:C:1365:TYR:CB	1:C:1374:ALA:HB2	2.43	0.49
1:B:1422:LEU:O	1:B:1422:LEU:HD22	2.12	0.49
2:D:131:ALA:HA	2:D:134:ASP:OD2	2.13	0.49
1:B:1166:GLU:C	1:B:1170:GLU:CG	2.80	0.49
2:E:105:TRP:CA	2:E:108:GLU:HG3	2.41	0.49
1:A:1617:GLU:CG	1:A:1621:LYS:HZ2	2.26	0.49
1:A:1524:SER:C	1:A:1526:GLU:H	2.16	0.49
1:C:1211:TYR:CZ	1:C:1235:GLY:HA3	2.48	0.49
1:C:1513:TYR:HD1	1:C:1516:LYS:CE	2.22	0.49
1:B:1513:TYR:HA	1:B:1516:LYS:HE2	1.93	0.49
1:C:1329:PRO:O	1:C:1332:MET:HB3	2.13	0.49
1:B:1569:CYS:O	1:B:1572:THR:OG1	2.31	0.49
1:B:1077:VAL:C	1:B:1079:THR:H	2.15	0.49
1:A:1167:SER:CA	1:A:1171:THR:OG1	2.61	0.49
2:E:154:ARG:CB	2:E:154:ARG:HH11	2.26	0.49
1:C:1303:LEU:HD12	1:C:1320:LEU:CD1	2.34	0.49
1:C:1629:THR:O	1:C:1629:THR:CG2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1513:TYR:HA	1:C:1516:LYS:HG2	1.95	0.49
2:F:155:ILE:O	2:F:156:ALA:CB	2.61	0.49
1:C:1273:GLY:C	1:C:1275:HIS:N	2.64	0.48
2:E:180:UNK:O	2:E:181:UNK:O	2.30	0.48
1:A:1085:LEU:C	1:A:1086:ILE:O	2.52	0.48
1:C:1085:LEU:C	1:C:1086:ILE:O	2.52	0.48
1:B:1455:VAL:O	1:B:1456:GLN:HB3	2.12	0.48
1:B:1167:SER:CA	1:B:1171:THR:OG1	2.61	0.48
1:B:1167:SER:HB2	1:B:1196:ALA:HA	1.95	0.48
1:C:1193:PRO:HG2	1:C:1194:ASN:H	1.78	0.48
1:A:1284:GLU:C	1:A:1284:GLU:OE2	2.51	0.48
1:B:1244:ALA:HB3	1:B:1275:HIS:CE1	2.46	0.48
1:A:1077:VAL:HG12	1:A:1079:THR:H	1.78	0.48
1:C:1108:TRP:CD2	1:C:1129:ILE:HB	2.48	0.48
2:F:125:GLN:CD	2:F:125:GLN:C	2.72	0.48
2:E:131:ALA:HA	2:E:134:ASP:OD2	2.13	0.48
1:A:1168:TYR:CA	1:A:1172:GLU:OE2	2.61	0.48
2:E:155:ILE:O	2:E:156:ALA:CB	2.61	0.48
1:A:1461:LYS:O	1:A:1465:GLU:HB2	2.13	0.48
1:A:1151:GLU:HG2	1:A:1151:GLU:O	2.10	0.48
1:B:1553:LEU:O	1:B:1556:TRP:HB3	2.13	0.48
1:C:1553:LEU:O	1:C:1556:TRP:HB3	2.13	0.48
1:C:1260:CYS:N	1:C:1293:ARG:HH12	2.08	0.48
1:A:1329:PRO:O	1:A:1332:MET:HB3	2.13	0.48
1:B:1333:ARG:HB2	1:B:1360:GLU:HG2	1.92	0.48
1:A:1111:LEU:O	1:A:1115:GLN:HB2	2.13	0.48
1:A:1408:ILE:HG22	1:A:1412:LEU:CG	2.41	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:C:1150:TRP:HA	1:C:1153:LEU:HB3	1.95	0.48
1:A:1162:LYS:HZ2	1:A:1163:LYS:NZ	2.10	0.48
1:C:1230:THR:O	1:C:1231:LEU:CB	2.61	0.48
1:C:1461:LYS:O	1:C:1465:GLU:HB2	2.13	0.48
1:A:1513:TYR:HD1	1:A:1516:LYS:CE	2.22	0.48
1:A:1330:GLN:CG	1:A:1331:LYS:H	2.21	0.48
1:B:1335:HIS:ND1	1:B:1336:LEU:N	2.62	0.48
1:B:1292:ASP:HB2	2:D:97:GLN:NE2	2.28	0.48
1:B:1561:GLU:OE2	1:B:1561:GLU:HA	2.13	0.48
1:A:1150:TRP:HA	1:A:1153:LEU:HB3	1.95	0.48
1:B:1130:LYS:CB	1:B:1156:TYR:CE1	2.94	0.48
1:B:1387:LYS:HB2	1:B:1390:GLN:CG	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1598:TYR:CE1	1:B:1588:ARG:CB	2.92	0.48
1:B:1103:ASN:HA	1:B:1128:TYR:HE2	1.78	0.48
1:A:1077:VAL:C	1:A:1079:THR:H	2.15	0.48
1:C:1082:VAL:CG1	1:C:1083:GLN:N	2.68	0.48
1:A:1509:ARG:HH12	2:F:162:GLN:CA	2.06	0.48
1:A:1166:GLU:CG	1:A:1167:SER:N	2.72	0.48
2:D:102:ILE:O	2:D:106:ARG:CB	2.61	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
1:C:1279:HIS:CE1	1:C:1286:LEU:CD2	2.82	0.48
1:B:1279:HIS:NE2	1:B:1283:LEU:N	2.62	0.48
1:B:1567:GLY:O	1:B:1571:PHE:CD1	2.67	0.48
1:A:1083:GLN:NE2	1:A:1105:PRO:N	2.62	0.48
1:C:1083:GLN:NE2	1:C:1105:PRO:N	2.62	0.48
1:B:1395:ILE:HG23	1:B:1396:THR:N	2.29	0.48
2:D:125:GLN:CD	2:D:125:GLN:C	2.72	0.48
1:B:1416:PRO:HD3	2:D:130:LYS:HD3	1.89	0.48
1:B:1151:GLU:HG2	1:B:1151:GLU:O	2.10	0.48
1:C:1175:PHE:HE1	1:C:1200:GLN:HB3	1.77	0.48
1:A:1567:GLY:O	1:A:1571:PHE:CD1	2.67	0.48
1:A:1586:ALA:CB	1:A:1590:ASN:CG	2.81	0.48
1:C:1561:GLU:HA	1:C:1561:GLU:OE2	2.14	0.48
1:B:1079:THR:CB	1:B:1105:PRO:HG3	2.40	0.48
1:B:1111:LEU:O	1:B:1115:GLN:HB2	2.13	0.48
1:A:1375:ILE:HG23	1:A:1391:PHE:CZ	2.49	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: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:1167:SER:HB2	1:C:1196:ALA:HA	1.95	0.48
1:B:1135:SER:O	1:B:1136:SER:HB2	2.12	0.48
1:B:1461:LYS:HG2	1:B:1489:ASN:ND2	2.28	0.48
2:F:98:GLU:O	2:F:102:ILE:HG23	2.14	0.48
1:B:1329:PRO:O	1:B:1332:MET:N	2.44	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:1578:ARG:CD	1:B:1582:VAL:HB	2.42	0.48
1:B:1085:LEU:C	1:B:1086:ILE:O	2.52	0.48
1:B:1104:GLU:N	1:B:1105:PRO:HD3	2.29	0.48
2:F:112:ARG:HD3	2:F:113:LEU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:1448:VAL:O	1:C:1451:TYR:HB3	2.14	0.48
1:B:1193:PRO:HG2	1:B:1194:ASN:H	1.78	0.48
1:C:1166:GLU:C	1:C:1170:GLU:CG	2.80	0.48
1:B:1113:LYS:HG2	1:B:1117:GLN:NE2	2.29	0.48
1:C:1234:LEU:C	1:C:1236:GLU:H	2.09	0.48
1:A:1211:TYR:CZ	1:A:1235:GLY:HA3	2.48	0.48
1:B:1495:LEU:O	1:B:1499:LEU:HG	2.14	0.48
1:C:1279:HIS:NE2	1:C:1283:LEU:N	2.62	0.48
1:B:1111:LEU:HD11	1:B:1125:ILE:HG12	1.93	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
2:F:127:TRP:CA	2:F:130:LYS:HE3	2.42	0.48
1:C:1446:PRO:O	1:C:1449:LYS:HB2	2.14	0.48
1:C:1130:LYS:HD2	1:C:1156:TYR:CZ	2.40	0.48
1:B:1234:LEU:CG	1:B:1235:GLY:N	2.74	0.48
1:A:1230:THR:O	1:A:1231:LEU:CB	2.61	0.48
1:B:1513:TYR:HA	1:B:1516:LYS:HG2	1.94	0.48
1:B:1324:TYR:CD2	1:B:1332:MET:HA	2.43	0.48
1:B:1083:GLN:NE2	1:B:1105:PRO:N	2.62	0.48
1:B:1384:ASP:OD1	2:D:115:GLU:OE1	2.31	0.48
1:A:1446:PRO:O	1:A:1449:LYS:HB2	2.14	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:1277:VAL:HG11	1:C:1302:MET:HE2	1.94	0.47
1:A:1279:HIS:NE2	1:A:1283:LEU:N	2.62	0.47
1:B:1597:PRO:HG3	1:B:1600:ILE:CD1	2.37	0.47
1:C:1567:GLY:O	1:C:1571:PHE:CD1	2.67	0.47
2:F:183:UNK:N	2:F:188:UNK:CB	2.77	0.47
1:B:1108:TRP:CD2	1:B:1129:ILE:HB	2.49	0.47
1:C:1077:VAL:HG12	1:C:1079:THR:H	1.78	0.47
1:C:1085:LEU:N	1:C:1085:LEU:HD23	2.12	0.47
1:C:1103:ASN:HA	1:C:1128:TYR:HE2	1.78	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
2:D:144:GLU:O	2:D:148:LYS:N	2.45	0.47
1:C:1395:ILE:HG23	1:C:1396:THR:N	2.29	0.47
2:E:124:GLU:OE1	2:E:128:ARG:CZ	2.62	0.47
1:C:1530:LYS:HG2	1:C:1531:ASP:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1524:SER:C	1:C:1526:GLU:H	2.16	0.47
1:B:1206:TYR:CE1	1:B:1226:ARG:HA	2.49	0.47
1:A:1553:LEU:O	1:A:1556:TRP:HB3	2.13	0.47
1:C:1335:HIS:ND1	1:C:1336:LEU:N	2.62	0.47
1:A:1335:HIS:ND1	1:A:1336:LEU:N	2.62	0.47
1:B:1561:GLU:HG3	1:B:1562:LYS:N	2.30	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:B:1408:ILE:O	1:B:1412:LEU:HB3	2.15	0.47
2:D:124:GLU:OE1	2:D:128:ARG:CZ	2.62	0.47
1:C:1198:ILE:HA	1:C:1201:VAL:HG21	1.96	0.47
1:C:1490:PHE:CZ	1:C:1492:ASN:CG	2.86	0.47
1:C:1113:LYS:HG2	1:C:1117:GLN:NE2	2.29	0.47
1:A:1113:LYS:HG2	1:A:1117:GLN:NE2	2.29	0.47
1:A:1387:LYS:HB2	1:A:1390:GLN:CG	2.40	0.47
1:C:1326:LYS:HG3	1:C:1327:PHE:CE1	2.49	0.47
1:A:1326:LYS:HG3	1:A:1327:PHE:CE1	2.49	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:1586:ALA:CB	1:B:1590:ASN:CG	2.81	0.47
1:A:1111:LEU:CD2	1:A:1115:GLN:CG	2.93	0.47
1:A:1108:TRP:CD2	1:A:1129:ILE:HB	2.48	0.47
1:C:1362:VAL:CG2	1:C:1377:THR:CB	2.82	0.47
1:B:1416:PRO:O	1:B:1419:LEU:HB3	2.14	0.47
1:B:1150:TRP:HA	1:B:1153:LEU:HB3	1.95	0.47
1:C:1148:GLY:HA3	1:C:1150:TRP:CZ3	2.42	0.47
1:B:1629:THR:CG2	1:B:1629:THR:O	2.48	0.47
1:A:1610:VAL:O	1:A:1614:ASP:CG	2.53	0.47
1:A:1197:HIS:O	1:A:1201:VAL:HG23	2.14	0.47
2:D:191:UNK:O	2:D:193:UNK:N	2.48	0.47
1:A:1296:PHE:CZ	2:F:101:SER:HA	2.49	0.47
1:A:1569:CYS:O	1:A:1572:THR:OG1	2.31	0.47
1:C:1572:THR:HG22	1:C:1578:ARG:HB3	1.96	0.47
1:C:1586:ALA:CB	1:C:1590:ASN:CG	2.81	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: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
2:F:133:LYS:CA	2:F:133:LYS:CE	2.93	0.47
2:D:153:ASN:ND2	2:D:158:LYS:CB	2.77	0.47
1:B:1375:ILE:HG23	1:B:1391:PHE:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1307:LEU:HD11	1:B:1316:MET:HB3	1.96	0.47
1:C:1421:ASP:O	1:C:1424:MET:HB2	2.15	0.47
1:C:1324:TYR:CD2	1:C:1332:MET:HA	2.43	0.47
1:A:1301:THR:O	1:A:1301:THR:HG22	2.14	0.47
1:A:1572:THR:HG22	1:A:1578:ARG:HB3	1.96	0.47
1:A:1111:LEU:HD22	1:A:1111:LEU:C	2.28	0.47
1:B:1448:VAL:O	1:B:1451:TYR:HB3	2.14	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
2:D:173:UNK:C	2:D:176:UNK:CB	2.92	0.47
1:C:1206:TYR:CE1	1:C:1226:ARG:HA	2.49	0.47
1:C:1137:TYR:O	1:C:1141:VAL:CG2	2.61	0.47
1:B:1610:VAL:O	1:B:1614:ASP:CG	2.53	0.47
1:A:1250:THR:HB	1:A:1285:GLU:CD	2.35	0.47
1:A:1292:ASP:OD1	2:F:98:GLU:HG3	2.14	0.47
1:B:1244:ALA:HB2	1:B:1253:TRP:HH2	1.68	0.47
1:C:1561:GLU:HG3	1:C:1562:LYS:N	2.29	0.47
1:A:1080:SER:O	1:A:1084:VAL:HG23	2.15	0.47
2:F:124:GLU:OE1	2:F:128:ARG:CZ	2.62	0.47
1:C:1401:VAL:O	1:C:1404:TYR:HD1	1.97	0.47
1:B:1197:HIS:O	1:B:1201:VAL:HG23	2.14	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:A:1588:ARG:HB2	2:E:195:UNK:CB	2.44	0.47
1:C:1610:VAL:O	1:C:1614:ASP:CG	2.53	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:1279:HIS:HD2	1:B:1282:GLU:CA	2.27	0.47
2:F:193:UNK:C	2:F:195:UNK:N	2.76	0.47
1:A:1561:GLU:HG3	1:A:1562:LYS:N	2.29	0.47
1:A:1122:LYS:HZ2	1:A:1147:SER:HB2	1.80	0.47
1:A:1425:VAL:CG2	1:A:1426:LEU:H	2.18	0.47
1:A:1455:VAL:O	1:A:1456:GLN:CB	2.63	0.47
1:A:1530:LYS:HG2	1:A:1531:ASP:N	2.30	0.47
2:F:144:GLU:O	2:F:148:LYS:N	2.45	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
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
1:C:1427:SER:HB2	1:C:1428:PRO:HD2	1.85	0.47
2:E:125:GLN:CD	2:E:125:GLN:C	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1408:ILE:O	1:C:1412:LEU:HB3	2.15	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
1:A:1206:TYR:CE1	1:A:1226:ARG:HA	2.49	0.47
1:B:1461:LYS:O	1:B:1465:GLU:HB2	2.13	0.47
1:B:1368:TYR:CE1	1:B:1370:GLU:OE2	2.67	0.47
1:C:1104:GLU:N	1:C:1105:PRO:HD3	2.29	0.47
1:A:1469:ASN:ND2	1:A:1498:ARG:NH2	2.62	0.47
2:D:122:VAL:HG23	2:D:123:MET:SD	2.55	0.47
1:C:1375:ILE:HG23	1:C:1391:PHE:CZ	2.49	0.47
1:C:1188:GLU:C	1:C:1190:ILE:N	2.65	0.47
1:B:1605:GLU:O	1:B:1609:LYS:N	2.48	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:1333:ARG:HB2	1:A:1360:GLU:HG2	1.92	0.47
1:A:1600:ILE:HB	1:A:1601:GLN:OE1	2.15	0.47
1:B:1572:THR:HG22	1:B:1578:ARG:HB3	1.95	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
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:A:1104:GLU:N	1:A:1105:PRO:HD3	2.29	0.47
1:A:1079:THR:CB	1:A:1105:PRO:HG3	2.39	0.47
1:C:1079:THR:CB	1:C:1105:PRO:HG3	2.40	0.47
1:A:1395:ILE:HD11	1:A:1403:LEU:HD12	1.96	0.47
1:C:1395:ILE:HD11	1:C:1403:LEU:HD12	1.96	0.47
2:E:122:VAL:HG23	2:E:123:MET:SD	2.54	0.47
2:E:133:LYS:CA	2:E:133:LYS:CE	2.92	0.47
1:A:1148:GLY:C	1:A:1150:TRP:CE3	2.89	0.47
1:B:1162:LYS:HZ2	1:B:1163:LYS:HZ3	1.62	0.47
1:B:1490:PHE:CE2	1:B:1492:ASN:OD1	2.63	0.47
1:C:1301:THR:HG22	1:C:1301:THR:O	2.15	0.47
1:B:1302:MET:C	1:B:1304:GLU:N	2.69	0.47
1:A:1104:GLU:O	1:A:1108:TRP:HZ2	1.86	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:B:1198:ILE:HA	1:B:1201:VAL:HG21	1.96	0.47
1:A:1580:ASP:OD2	1:C:1605:GLU:OE2	2.33	0.47
1:C:1232:VAL:CG2	1:C:1233:HIS:H	2.08	0.47
1:A:1421:ASP:O	1:A:1424:MET:HB2	2.15	0.47
1:B:1421:ASP:O	1:B:1424:MET:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1315:GLY:O	1:B:1319:GLU:HG2	2.15	0.47
1:B:1597:PRO:HB3	1:B:1601:GLN:NE2	2.26	0.46
1:B:1080:SER:O	1:B:1084:VAL:HG23	2.15	0.46
1:A:1408:ILE:O	1:A:1412:LEU:CA	2.63	0.46
2:E:127:TRP:CA	2:E:130:LYS:HE3	2.41	0.46
1:C:1148:GLY:C	1:C:1150:TRP:CE3	2.89	0.46
1:B:1492:ASN:C	1:B:1493:ILE:CG1	2.83	0.46
1:C:1206:TYR:CD2	1:C:1226:ARG:HG3	2.50	0.46
1:B:1482:THR:HA	1:B:1485:ASP:CG	2.36	0.46
1:A:1198:ILE:HA	1:A:1201:VAL:HG21	1.96	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:B:1293:ARG:CA	2:D:96:THR:HG23	2.22	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
2:F:122:VAL:HG23	2:F:123:MET:SD	2.55	0.46
1:B:1420:ASN:HA	1:B:1423:LEU:CG	2.43	0.46
2:D:95:LEU:HA	2:D:99:PRO:HD2	1.97	0.46
1:C:1232:VAL:O	1:C:1233:HIS:CB	2.63	0.46
1:B:1232:VAL:O	1:B:1233:HIS:CB	2.63	0.46
1:A:1495:LEU:O	1:A:1499:LEU:HG	2.14	0.46
2:E:147:GLU:HA	2:E:147:GLU:OE1	2.05	0.46
1:C:1340:TRP:CD1	1:C:1340:TRP:N	2.83	0.46
1:A:1340:TRP:CD1	1:A:1340:TRP:N	2.83	0.46
1:A:1253:TRP:HZ3	1:A:1276:ILE:CG2	1.98	0.46
1:B:1600:ILE:HB	1:B:1601:GLN:OE1	2.15	0.46
1:C:1601:GLN:HA	1:C:1604:LYS:CG	2.45	0.46
1:C:1600:ILE:HB	1:C:1601:GLN:OE1	2.15	0.46
1:C:1598:TYR:OH	2:E:196:UNK:CA	2.61	0.46
1:A:1414:PHE:HB3	2:F:130:LYS:NZ	2.24	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:1148:GLY:C	1:B:1150:TRP:CE3	2.89	0.46
1:A:1605:GLU:O	1:A:1609:LYS:N	2.48	0.46
1:C:1491:ASP:O	1:C:1493:ILE:N	2.47	0.46
1:C:1214:ALA:O	1:C:1218:TYR:CG	2.68	0.46
1:A:1602:VAL:CG1	2:F:202:UNK:O	2.61	0.46
1:A:1206:TYR:CD2	1:A:1226:ARG:HG3	2.50	0.46
1:A:1307:LEU:HD11	1:A:1316:MET:HB3	1.96	0.46
1:B:1297:GLU:OE1	1:B:1297:GLU:HA	2.16	0.46
1:B:1591:ILE:O	1:B:1592:MET:C	2.53	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
1:A:1345:ILE:N	1:A:1346:PRO:HD2	2.20	0.46
1:A:1460:ASN:HB3	1:A:1463:VAL:HG23	1.98	0.46
2:F:148:LYS:O	2:F:151:ILE:HG23	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:C:1469:ASN:ND2	1:C:1498:ARG:NH2	2.62	0.46
1:C:1158:GLN:O	1:C:1162:LYS:NZ	2.30	0.46
1:C:1315:GLY:O	1:C:1319:GLU:HG2	2.15	0.46
1:C:1250:THR:CB	1:C:1285:GLU:OE1	2.58	0.46
2:F:102:ILE:O	2:F:104:LYS:N	2.49	0.46
1:A:1577:LEU:C	1:A:1579:PRO:HD3	2.36	0.46
1:A:1579:PRO:O	1:A:1583:LEU:HG	2.15	0.46
1:A:1565:CYS:SG	1:A:1596:MET:SD	3.13	0.46
1:C:1591:ILE:O	1:C:1592:MET:C	2.53	0.46
1:C:1565:CYS:SG	1:C:1596:MET:SD	3.12	0.46
1:A:1539:GLN:OE1	2:F:177:UNK:CB	2.59	0.46
2:F:187:UNK:O	2:F:188:UNK:C	2.62	0.46
1:C:1079:THR:HA	1:C:1102:CYS:CB	2.39	0.46
2:E:94:ARG:NH2	2:E:98:GLU:HG2	2.30	0.46
1:A:1167:SER:OG	1:A:1168:TYR:N	2.42	0.46
1:C:1167:SER:CA	1:C:1171:THR:HB	2.41	0.46
1:A:1580:ASP:OD1	1:C:1605:GLU:CG	2.63	0.46
1:A:1214:ALA:O	1:A:1218:TYR:CG	2.68	0.46
1:C:1206:TYR:CE1	1:C:1230:THR:OG1	2.67	0.46
2:D:204:UNK:O	2:D:205:UNK:O	2.34	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:A:1591:ILE:HG12	1:A:1592:MET:H	1.81	0.46
1:B:1577:LEU:C	1:B:1579:PRO:HD3	2.36	0.46
1:C:1598:TYR:OH	2:E:196:UNK:HA	2.15	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:CD	2.79	0.46
1:A:1108:TRP:CZ3	1:A:1129:ILE:CG1	2.97	0.46
2:E:137:GLU:HG3	2:E:141:ARG:NH2	2.31	0.46
1:B:1149:ASN:O	1:B:1153:LEU:HB3	2.12	0.46
1:A:1194:ASN:HB2	1:A:1195:ASN:H	1.48	0.46
1:B:1206:TYR:CD2	1:B:1226:ARG:HG3	2.50	0.46
1:C:1499:LEU:HB2	1:C:1511:ALA:CB	2.42	0.46
1:C:1482:THR:HA	1:C:1485:ASP:CG	2.36	0.46
1:A:1561:GLU:CG	1:A:1562:LYS:N	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1565:CYS:O	1:A:1569:CYS:SG	2.74	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:1572:THR:HG21	1:C:1599:PHE:HE2	1.81	0.46
1:A:1083:GLN:NE2	1:A:1105:PRO:HD2	2.31	0.46
1:C:1358:TRP:CH2	1:C:1381:HIS:ND1	2.57	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:B:1395:ILE:HD11	1:B:1403:LEU:HD12	1.96	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
2:E:148:LYS:O	2:E:151:ILE:HG23	2.16	0.46
2:D:185:UNK:CA	2:D:189:UNK:C	2.86	0.46
1:B:1137:TYR:O	1:B:1141:VAL:CG2	2.61	0.46
2:E:192:UNK:O	2:E:193:UNK:O	2.33	0.46
1:B:1250:THR:HB	1:B:1285:GLU:CD	2.35	0.46
1:B:1333:ARG:HA	1:B:1360:GLU:CG	2.46	0.46
1:B:1083:GLN:NE2	1:B:1105:PRO:HD2	2.31	0.46
1:A:1401:VAL:O	1:A:1404:TYR:HD1	1.97	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:B:1170:GLU:CG	1:B:1196:ALA:HB2	2.46	0.46
1:C:1167:SER:CA	1:C:1171:THR:H	2.24	0.46
1:A:1490:PHE:CZ	1:A:1492:ASN:CG	2.86	0.46
1:C:1617:GLU:CG	1:C:1621:LYS:NZ	2.79	0.46
1:A:1332:MET:SD	1:A:1360:GLU:CB	3.04	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:A:1591:ILE:O	1:A:1592:MET:C	2.53	0.46
1:A:1598:TYR:HE1	1:B:1588:ARG:HB3	1.81	0.46
1:B:1085:LEU:HD12	1:B:1095:ALA:CA	2.46	0.46
1:B:1083:GLN:NE2	1:B:1105:PRO:CD	2.79	0.46
1:A:1085:LEU:CD1	1:A:1098:PHE:CE1	2.84	0.46
1:A:1407:ALA:C	1:A:1409:GLN:H	2.19	0.46
1:C:1161:ARG:HE	1:C:1165:ARG:HD2	1.77	0.46
1:A:1572:THR:HG21	1:A:1599:PHE:HE2	1.81	0.46
1:B:1565:CYS:SG	1:B:1596:MET:SD	3.13	0.46
2:F:184:UNK:C	2:F:186:UNK:N	2.79	0.46
1:C:1455:VAL:O	1:C:1456:GLN:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:101:SER:O	2:E:105:TRP:HE3	1.99	0.46
1:A:1170:GLU:CG	1:A:1196:ALA:HB2	2.46	0.46
1:A:1159:MET:C	1:A:1163:LYS:HZ3	2.08	0.46
1:C:1307:LEU:HD11	1:C:1316:MET:HB3	1.96	0.46
1:A:1137:TYR:O	1:A:1141:VAL:CG2	2.61	0.46
1:B:1204:ARG:O	1:B:1208:GLU:N	2.48	0.46
1:C:1250:THR:HB	1:C:1285:GLU:CD	2.35	0.45
1:A:1333:ARG:CB	1:A:1360:GLU:HG2	2.46	0.45
1:A:1564:GLU:O	1:A:1568:ALA:N	2.47	0.45
1:B:1561:GLU:CG	1:B:1562:LYS:N	2.79	0.45
1:C:1561:GLU:CG	1:C:1562:LYS:N	2.79	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
1:C:1154:VAL:CG2	1:C:1180:THR:CG2	2.63	0.45
2:E:144:GLU:O	2:E:148:LYS:N	2.45	0.45
1:B:1151:GLU:HB3	1:B:1152:GLU:OE2	2.16	0.45
1:A:1520:ARG:H	1:A:1520:ARG:CD	2.29	0.45
2:E:107:GLU:OE1	2:E:107:GLU:HA	2.16	0.45
1:B:1340:TRP:CD1	1:B:1340:TRP:N	2.83	0.45
1:C:1274:LEU:O	1:C:1277:VAL:CG2	2.64	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: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: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:C:1111:LEU:HD22	1:C:1111:LEU:C	2.28	0.45
1:A:1420:ASN:HA	1:A:1423:LEU:CG	2.43	0.45
1:C:1166:GLU:CD	1:C:1169:VAL:HG23	2.32	0.45
1:C:1504:LEU:CD2	2:E:149:ASN:ND2	2.69	0.45
1:C:1151:GLU:HB3	1:C:1152:GLU:OE2	2.16	0.45
1:B:1520:ARG:H	1:B:1520:ARG:CD	2.29	0.45
1:C:1518:ASN:CG	1:C:1518:ASN:O	2.54	0.45
1:C:1520:ARG:H	1:C:1520:ARG:CD	2.29	0.45
1:C:1302:MET:C	1:C:1304:GLU:N	2.69	0.45
1:A:1297:GLU:HA	1:A:1297:GLU:OE1	2.16	0.45
1:B:1301:THR:O	1:B:1301:THR:HG22	2.15	0.45
1:A:1563:ARG:NH2	2:F:181:UNK:HA	2.27	0.45
1:C:1079:THR:HG23	1:C:1105:PRO:HG3	1.74	0.45
1:A:1400:ASN:OD1	1:A:1402:GLU:HB3	2.17	0.45
1:A:1413:GLU:HA	1:A:1413:GLU:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1474:GLU:C	1:A:1475:GLU:HG3	2.36	0.45
1:C:1420:ASN:HA	1:C:1423:LEU:CG	2.43	0.45
1:B:1130:LYS:HD2	1:B:1156:TYR:CZ	2.40	0.45
1:A:1166:GLU:CD	1:A:1169:VAL:HG23	2.32	0.45
1:B:1214:ALA:O	1:B:1218:TYR:CG	2.68	0.45
1:A:1617:GLU:CG	1:A:1621:LYS:NZ	2.79	0.45
1:A:1273:GLY:C	1:A:1275:HIS:H	2.20	0.45
1:B:1561:GLU:HG3	1:B:1563:ARG:H	1.82	0.45
1:C:1597:PRO:HG3	1:C:1600:ILE:CD1	2.37	0.45
1:A:1079:THR:HA	1:A:1102:CYS:CB	2.39	0.45
1:C:1077:VAL:HG12	1:C:1079:THR:HB	1.98	0.45
1:C:1080:SER:C	1:C:1082:VAL:N	2.70	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
2:F:137:GLU:HG3	2:F:141:ARG:NH2	2.31	0.45
1:B:1474:GLU:C	1:B:1475:GLU:HG3	2.36	0.45
1:C:1474:GLU:C	1:C:1475:GLU:HG3	2.36	0.45
1:A:1230:THR:O	1:A:1230:THR:HG22	2.17	0.45
1:C:1204:ARG:O	1:C:1208:GLU:N	2.48	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
2:F:103:ARG:HA	2:F:106:ARG:HB2	1.98	0.45
1:B:1292:ASP:O	2:D:96:THR:CG2	2.61	0.45
1:A:1601:GLN:N	1:A:1601:GLN:OE1	2.50	0.45
1:B:1572:THR:HG21	1:B:1599:PHE:HE2	1.81	0.45
1:B:1601:GLN:N	1:B:1601:GLN:OE1	2.50	0.45
1:C:1561:GLU:HG3	1:C:1563:ARG:H	1.82	0.45
1:C:1577:LEU:C	1:C:1579:PRO:HD3	2.36	0.45
1:A:1080:SER:C	1:A:1082:VAL:N	2.70	0.45
1:A:1471:PHE:HA	1:A:1474:GLU:CG	2.43	0.45
1:B:1458:HIS:C	1:B:1460:ASN:H	2.20	0.45
1:B:1474:GLU:HG3	1:B:1476:ASP:H	1.82	0.45
1:C:1407:ALA:C	1:C:1409:GLN:H	2.19	0.45
1:B:1166:GLU:CD	1:B:1169:VAL:HG23	2.32	0.45
1:B:1230:THR:O	1:B:1230:THR:HG22	2.17	0.45
1:A:1230:THR:O	1:A:1231:LEU:CG	2.64	0.45
1:A:1482:THR:HA	1:A:1485:ASP:CG	2.36	0.45
1:B:1270:GLN:CD	1:B:1298:GLU:CB	2.84	0.45
1:B:1257:CYS:CB	1:B:1289:TYR:OH	2.64	0.45
1:B:1597:PRO:CB	1:B:1601:GLN:HE22	2.28	0.45
1:A:1448:VAL:HA	1:A:1451:TYR:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1450:PRO:O	1:A:1453:ARG:HB2	2.16	0.45
1:A:1469:ASN:ND2	1:A:1469:ASN:O	2.48	0.45
1:A:1467:LEU:HG	1:A:1471:PHE:HE2	1.82	0.45
1:A:1480:LEU:HA	1:A:1483:SER:HB3	1.99	0.45
1:B:1503:GLU:HG3	1:B:1504:LEU:H	1.82	0.45
2:D:123:MET:O	2:D:127:TRP:CD2	2.70	0.45
1:B:1416:PRO:CG	2:D:130:LYS:CG	2.95	0.45
1:C:1413:GLU:HA	1:C:1413:GLU:OE1	2.17	0.45
1:C:1460:ASN:HB3	1:C:1463:VAL:HG23	1.98	0.45
1:A:1193:PRO:O	1:A:1194:ASN:C	2.55	0.45
1:A:1491:ASP:O	1:A:1493:ILE:N	2.47	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
1:C:1518:ASN:ND2	1:C:1518:ASN:O	2.50	0.45
1:B:1237:TYR:O	1:B:1237:TYR:CG	2.70	0.45
1:B:1301:THR:CA	1:B:1304:GLU:HG3	2.31	0.45
1:C:1601:GLN:N	1:C:1601:GLN:OE1	2.50	0.45
1:A:1095:ALA:HA	1:A:1098:PHE:CZ	2.52	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:A:1456:GLN:HG3	1:A:1456:GLN:O	2.05	0.45
2:F:112:ARG:C	2:F:113:LEU:O	2.54	0.45
1:B:1408:ILE:O	1:B:1412:LEU:CA	2.63	0.45
2:D:148:LYS:O	2:D:151:ILE:HG23	2.16	0.45
1:C:1452:LEU:HD13	1:C:1467:LEU:HD13	1.99	0.45
1:C:1619:LEU:N	1:C:1619:LEU:HD22	2.32	0.45
2:D:94:ARG:NE	2:D:98:GLU:OE1	2.47	0.45
1:B:1230:THR:O	1:B:1231:LEU:CG	2.64	0.45
1:C:1517:GLY:C	1:C:1519:ASN:H	2.20	0.45
1:C:1263:GLY:O	1:C:1264:LYS:CB	2.60	0.45
1:C:1270:GLN:CD	1:C:1298:GLU:CB	2.84	0.45
1:A:1601:GLN:HA	1:A:1604:LYS:CG	2.45	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:A:1237:TYR:CG	1:A:1237:TYR:O	2.70	0.45
1:A:1518:ASN:O	1:A:1518:ASN:ND2	2.50	0.45
1:B:1518:ASN:CG	1:B:1518:ASN:O	2.54	0.45
1:C:1282:GLU:C	1:C:1283:LEU:CD1	2.85	0.45
1:A:1563:ARG:NH1	2:F:181:UNK:HA	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:190:UNK:C	2:F:192:UNK:N	2.79	0.45
1:A:1458:HIS:C	1:A:1460:ASN:H	2.20	0.45
1:C:1193:PRO:O	1:C:1194:ASN:C	2.55	0.45
1:C:1490:PHE:CE2	1:C:1492:ASN:OD1	2.64	0.45
1:C:1237:TYR:CG	1:C:1237:TYR:O	2.70	0.45
1:C:1279:HIS:CD2	1:C:1282:GLU:CG	3.00	0.45
1:B:1564:GLU:O	1:B:1568:ALA:N	2.47	0.45
1:A:1077:VAL:HG12	1:A:1079:THR:HB	1.99	0.45
1:C:1085:LEU:CD2	1:C:1085:LEU:N	2.76	0.45
1:B:1395:ILE:CG2	1:B:1396:THR:N	2.80	0.45
1:C:1406:ARG:O	1:C:1409:GLN:CB	2.65	0.45
1:B:1166:GLU:CD	1:B:1169:VAL:CG2	2.85	0.45
1:C:1371:TYR:CB	1:C:1394:ILE:HG22	2.42	0.45
1:A:1162:LYS:HZ3	1:A:1163:LYS:HZ1	1.62	0.45
2:D:174:UNK:CA	2:D:175:UNK:CB	2.95	0.45
1:A:1221:VAL:CG1	1:A:1222:SER:H	1.95	0.45
1:A:1619:LEU:N	1:A:1619:LEU:HD22	2.32	0.45
1:A:1296:PHE:HB2	1:A:1297:GLU:H	1.53	0.44
2:F:94:ARG:HH21	2:F:94:ARG:CG	2.30	0.44
1:B:1596:MET:N	1:B:1597:PRO:CD	2.63	0.44
1:B:1108:TRP:CZ3	1:B:1129:ILE:CG1	2.97	0.44
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: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
2:F:123:MET:O	2:F:127:TRP:CD2	2.70	0.44
1:B:1414:PHE:C	1:B:1416:PRO:HD3	2.20	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
1:C:1166:GLU:CD	1:C:1169:VAL:CG2	2.85	0.44
2:E:189:UNK:CA	2:E:194:UNK:CB	2.96	0.44
1:B:1617:GLU:CG	1:B:1621:LYS:NZ	2.79	0.44
1:C:1206:TYR:HD1	1:C:1226:ARG:O	2.00	0.44
1:C:1230:THR:O	1:C:1230:THR:HG22	2.17	0.44
1:A:1235:GLY:O	1:A:1238:GLN:HB2	2.17	0.44
1:A:1499:LEU:HB2	1:A:1511:ALA:CB	2.42	0.44
1:B:1619:LEU:N	1:B:1619:LEU:HD22	2.32	0.44
1:A:1151:GLU:HB3	1:A:1152:GLU:OE2	2.17	0.44
1:A:1279:HIS:HD2	1:A:1282:GLU:CA	2.28	0.44
1:B:1282:GLU:C	1:B:1283:LEU:CD1	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1330:GLN:HG3	1:B:1331:LYS:HG3	2.00	0.44
1:B:1562:LYS:C	1:B:1564:GLU:N	2.70	0.44
1:B:1077:VAL:HG12	1:B:1079:THR:HB	1.99	0.44
1:A:1395:ILE:CG2	1:A:1396:THR:N	2.80	0.44
1:A:1416:PRO:O	1:A:1417:LEU:C	2.56	0.44
1:B:1480:LEU:HA	1:B:1483:SER:HB3	1.99	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:B:1155:LYS:O	1:B:1158:GLN:HB3	2.17	0.44
1:B:1162:LYS:CD	1:B:1163:LYS:HZ1	2.28	0.44
2:D:91:GLN:NE2	2:D:94:ARG:HD2	2.32	0.44
1:B:1206:TYR:CE1	1:B:1230:THR:OG1	2.67	0.44
1:B:1499:LEU:HB2	1:B:1511:ALA:CB	2.42	0.44
1:B:1546:ASP:O	1:B:1547:THR:C	2.56	0.44
1:C:1333:ARG:HA	1:C:1360:GLU:CG	2.46	0.44
1:C:1562:LYS:C	1:C:1564:GLU:N	2.70	0.44
1:B:1080:SER:C	1:B:1082:VAL:N	2.70	0.44
1:B:1104:GLU:O	1:B:1108:TRP:HZ2	1.86	0.44
1:C:1469:ASN:ND2	1:C:1498:ARG:HH12	2.16	0.44
2:E:123:MET:O	2:E:127:TRP:CD2	2.70	0.44
1:A:1166:GLU:CD	1:A:1169:VAL:CG2	2.85	0.44
1:B:1209:LYS:HG2	1:B:1230:THR:CG2	2.48	0.44
2:E:112:ARG:C	2:E:113:LEU:O	2.54	0.44
1:C:1546:ASP:O	1:C:1547:THR:C	2.56	0.44
2:D:191:UNK:C	2:D:196:UNK:CB	2.95	0.44
1:B:1436:VAL:HG11	1:B:1462:SER:HB2	2.00	0.44
1:C:1279:HIS:HD2	1:C:1282:GLU:CA	2.27	0.44
1:A:1282:GLU:C	1:A:1283:LEU:CD1	2.85	0.44
1:A:1597:PRO:CB	1:A:1601:GLN:HE22	2.28	0.44
1:B:1578:ARG:HH12	1:B:1594:PHE:HE1	1.65	0.44
1:C:1578:ARG:HH12	1:C:1594:PHE:HE1	1.66	0.44
1:C:1469:ASN:O	1:C:1469:ASN:ND2	2.48	0.44
1:A:1490:PHE:CE2	1:A:1492:ASN:OD1	2.63	0.44
1:C:1503:GLU:HG3	1:C:1504:LEU:H	1.81	0.44
1:C:1459:ASN:O	1:C:1489:ASN:HB3	2.18	0.44
1:A:1546:ASP:O	1:A:1547:THR:C	2.56	0.44
1:B:1204:ARG:NH1	1:B:1207:ASP:OD2	2.51	0.44
1:C:1298:GLU:OE1	1:C:1298:GLU:HA	2.18	0.44
1:A:1260:CYS:N	1:A:1293:ARG:HH12	2.08	0.44
1:A:1333:ARG:HA	1:A:1360:GLU:CG	2.46	0.44
1:A:1111:LEU:HD21	1:A:1115:GLN:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1451:TYR:O	1:C:1455:VAL:HG23	2.17	0.44
1:C:1458:HIS:C	1:C:1460:ASN:H	2.20	0.44
1:C:1466:SER:O	1:C:1469:ASN:HB3	2.17	0.44
1:C:1166:GLU:CG	1:C:1167:SER:N	2.72	0.44
1:A:1209:LYS:HG2	1:A:1230:THR:CG2	2.48	0.44
1:C:1277:VAL:C	1:C:1279:HIS:HD1	2.19	0.44
1:A:1279:HIS:CD2	1:A:1282:GLU:CG	3.00	0.44
1:A:1596:MET:N	1:A:1597:PRO:CD	2.63	0.44
1:C:1591:ILE:HG12	1:C:1592:MET:H	1.81	0.44
1:A:1103:ASN:HA	1:A:1128:TYR:CE2	2.52	0.44
1:A:1408:ILE:CG2	1:A:1412:LEU:CG	2.95	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:B:1451:TYR:O	1:B:1455:VAL:HG23	2.17	0.44
1:B:1187:GLU:O	1:B:1190:ILE:HG22	2.18	0.44
1:B:1161:ARG:CZ	1:B:1193:PRO:HA	2.47	0.44
1:B:1411:TYR:HA	1:B:1415:LYS:HB2	1.87	0.44
2:E:105:TRP:HA	2:E:108:GLU:CG	2.48	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:C:1170:GLU:O	1:C:1174:ILE:HG13	2.18	0.44
1:A:1324:TYR:CD2	1:A:1332:MET:HA	2.43	0.44
1:B:1298:GLU:OE1	1:B:1298:GLU:HA	2.18	0.44
1:C:1602:VAL:HG21	2:E:202:UNK:C	2.47	0.44
1:A:1086:ILE:C	1:A:1088:HIS:N	2.71	0.44
1:A:1504:LEU:HG	2:F:149:ASN:O	2.16	0.44
1:B:1407:ALA:C	1:B:1409:GLN:H	2.19	0.44
1:C:1130:LYS:CG	1:C:1156:TYR:CE1	3.01	0.44
1:A:1161:ARG:HE	1:A:1170:GLU:CB	2.26	0.44
1:A:1155:LYS:O	1:A:1158:GLN:HB3	2.17	0.44
1:C:1155:LYS:O	1:C:1158:GLN:HB3	2.17	0.44
1:C:1477:TYR:CD1	1:C:1478:GLN:N	2.86	0.44
2:D:103:ARG:CZ	2:D:106:ARG:HG3	2.48	0.44
1:A:1459:ASN:O	1:A:1489:ASN:HB3	2.18	0.44
1:A:1430:LEU:HD12	1:A:1431:ASP:H	1.83	0.44
1:B:1430:LEU:HD12	1:B:1431:ASP:H	1.83	0.44
1:A:1092:LEU:C	1:A:1094:ARG:N	2.71	0.44
2:D:147:GLU:HA	2:D:147:GLU:OE1	2.05	0.44
1:A:1204:ARG:NH1	1:A:1207:ASP:OD2	2.51	0.44
1:B:1273:GLY:C	1:B:1275:HIS:H	2.20	0.44
1:A:1561:GLU:HG3	1:A:1563:ARG:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:196:UNK:O	2:F:197:UNK:O	2.36	0.44
1:B:1086:ILE:C	1:B:1088:HIS:N	2.71	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: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
2:D:118:ALA:CA	2:D:121:LYS:HE3	2.41	0.44
1:C:1416:PRO:O	1:C:1417:LEU:C	2.56	0.44
1:B:1235:GLY:O	1:B:1238:GLN:HB2	2.17	0.44
1:B:1518:ASN:O	1:B:1518:ASN:ND2	2.50	0.44
1:C:1272:CYS:O	1:C:1276:ILE:HG23	2.18	0.44
1:C:1329:PRO:O	1:C:1330:GLN:C	2.56	0.44
1:C:1332:MET:SD	1:C:1360:GLU:HB2	2.58	0.44
1:A:1302:MET:C	1:A:1304:GLU:N	2.69	0.44
1:B:1326:LYS:O	2:D:104:LYS:CE	2.60	0.44
2:F:195:UNK:O	2:F:197:UNK:N	2.49	0.44
1:A:1452:LEU:HD13	1:A:1467:LEU:HD13	1.99	0.44
2:F:109:GLN:O	2:F:112:ARG:CB	2.66	0.44
1:B:1505:ILE:O	1:B:1506:GLU:C	2.56	0.44
1:C:1395:ILE:CG2	1:C:1396:THR:N	2.80	0.44
1:C:1444:GLN:HE21	2:E:130:LYS:HD2	1.83	0.44
1:B:1193:PRO:O	1:B:1194:ASN:C	2.55	0.44
1:B:1371:TYR:CB	1:B:1394:ILE:HG22	2.42	0.44
1:C:1477:TYR:O	1:C:1481:ARG:HB2	2.18	0.44
1:C:1430:LEU:HD12	1:C:1431:ASP:H	1.83	0.44
1:C:1204:ARG:NH1	1:C:1207:ASP:OD2	2.51	0.44
1:A:1576:LEU:HD12	1:A:1576:LEU:HA	1.78	0.44
1:C:1273:GLY:C	1:C:1275:HIS:H	2.20	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:A:1329:PRO:O	1:A:1330:GLN:C	2.56	0.43
1:B:1333:ARG:CG	1:B:1360:GLU:HG3	2.48	0.43
1:A:1362:VAL:HG23	1:A:1377:THR:HG21	1.99	0.43
1:B:1452:LEU:HD13	1:B:1467:LEU:HD13	1.99	0.43
1:C:1467:LEU:O	1:C:1470:LEU:HB2	2.18	0.43
1:A:1161:ARG:CZ	1:A:1193:PRO:HA	2.47	0.43
2:D:103:ARG:HD2	2:D:103:ARG:HA	1.59	0.43
1:C:1209:LYS:HG2	1:C:1230:THR:CG2	2.48	0.43
2:E:91:GLN:O	2:E:92:ALA:HB2	2.18	0.43
1:B:1277:VAL:C	1:B:1279:HIS:HD1	2.19	0.43
1:B:1329:PRO:O	1:B:1330:GLN:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1332:MET:SD	1:B:1360:GLU:HB2	2.58	0.43
1:C:1578:ARG:NH2	1:C:1583:LEU:HD23	2.27	0.43
1:C:1587:TRP:CD1	1:C:1587:TRP:N	2.86	0.43
1:B:1111:LEU:HD21	1:B:1125:ILE:HG12	2.00	0.43
1:B:1345:ILE:HG21	1:B:1368:TYR:HD2	1.83	0.43
1:A:1345:ILE:HG21	1:A:1368:TYR:HD2	1.83	0.43
1:B:1477:TYR:CD1	1:B:1478:GLN:N	2.86	0.43
1:C:1480:LEU:HA	1:C:1483:SER:HB3	1.99	0.43
1:B:1142:GLN:C	1:B:1142:GLN:CD	2.77	0.43
1:C:1345:ILE:HG21	1:C:1368:TYR:HD2	1.83	0.43
1:C:1175:PHE:CE1	1:C:1200:GLN:HB3	2.53	0.43
1:B:1517:GLY:C	1:B:1519:ASN:H	2.20	0.43
1:B:1272:CYS:O	1:B:1276:ILE:HG23	2.18	0.43
1:C:1591:ILE:O	1:C:1594:PHE:HB2	2.18	0.43
1:C:1086:ILE:C	1:C:1088:HIS:N	2.71	0.43
1:A:1344:ASN:CG	1:A:1345:ILE:N	2.72	0.43
1:A:1376:ILE:HA	1:A:1379:MET:HG3	2.00	0.43
1:C:1467:LEU:HG	1:C:1471:PHE:HE2	1.82	0.43
1:B:1130:LYS:CG	1:B:1156:TYR:CE1	3.01	0.43
1:A:1130:LYS:CG	1:A:1156:TYR:CE1	3.01	0.43
1:C:1609:LYS:HA	1:C:1612:LYS:CG	2.47	0.43
1:C:1588:ARG:NE	2:D:197:UNK:CB	2.81	0.43
1:C:1142:GLN:C	1:C:1142:GLN:CD	2.77	0.43
1:A:1206:TYR:HD1	1:A:1226:ARG:O	2.00	0.43
2:D:155:ILE:CD1	2:D:155:ILE:N	2.78	0.43
2:F:147:GLU:HA	2:F:147:GLU:OE1	2.05	0.43
1:A:1204:ARG:O	1:A:1208:GLU:N	2.48	0.43
1:A:1578:ARG:HH12	1:A:1594:PHE:HE1	1.66	0.43
1:B:1080:SER:C	1:B:1082:VAL:H	2.21	0.43
1:A:1505:ILE:O	1:A:1506:GLU:C	2.56	0.43
2:F:122:VAL:HG23	2:F:123:MET:HE2	2.01	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:C:1435:ALA:O	1:C:1439:PHE:HD2	2.01	0.43
1:C:1187:GLU:O	1:C:1190:ILE:HG22	2.18	0.43
1:A:1518:ASN:O	1:A:1518:ASN:CG	2.54	0.43
1:A:1272:CYS:O	1:A:1276:ILE:HG23	2.18	0.43
1:A:1591:ILE:O	1:A:1594:PHE:HB2	2.18	0.43
1:B:1344:ASN:CG	1:B:1345:ILE:N	2.72	0.43
1:B:1435:ALA:HB1	1:B:1439:PHE:HE2	1.83	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:1187:GLU:O	1:A:1190:ILE:HG22	2.18	0.43
1:A:1436:VAL:HG11	1:A:1462:SER:HB2	2.00	0.43
1:A:1298:GLU:OE1	1:A:1298:GLU:HA	2.18	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:A:1080:SER:C	1:A:1082:VAL:H	2.21	0.43
1:A:1086:ILE:O	1:A:1090:GLY:N	2.52	0.43
1:C:1348:VAL:O	1:C:1352:ALA:N	2.52	0.43
1:A:1435:ALA:HB1	1:A:1439:PHE:HE2	1.83	0.43
1:B:1476:ASP:CG	1:B:1479:ALA:HB3	2.39	0.43
1:A:1609:LYS:HA	1:A:1612:LYS:CG	2.47	0.43
1:C:1370:GLU:HA	1:C:1370:GLU:OE1	2.19	0.43
1:B:1340:TRP:CZ3	1:B:1367:LYS:HD2	2.54	0.43
1:C:1330:GLN:HG3	1:C:1331:LYS:HG3	1.99	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
2:F:91:GLN:HE21	2:F:91:GLN:HB3	1.67	0.43
1:B:1344:ASN:OD1	1:B:1345:ILE:N	2.52	0.43
1:C:1111:LEU:HD21	1:C:1125:ILE:HG12	2.00	0.43
1:A:1370:GLU:HA	1:A:1370:GLU:OE1	2.19	0.43
2:F:131:ALA:HA	2:F:134:ASP:OD2	2.13	0.43
1:B:1416:PRO:O	1:B:1417:LEU:C	2.56	0.43
1:A:1162:LYS:CD	1:A:1163:LYS:HZ1	2.28	0.43
1:C:1505:ILE:O	1:C:1506:GLU:C	2.56	0.43
1:B:1459:ASN:O	1:B:1489:ASN:HB3	2.18	0.43
1:C:1436:VAL:HG11	1:C:1462:SER:HB2	2.00	0.43
1:B:1279:HIS:CD2	1:B:1282:GLU:CG	3.00	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: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:1376:ILE:HA	1:C:1379:MET:HG3	2.00	0.43
1:A:1167:SER:HA	1:A:1171:THR:N	2.29	0.43
1:A:1177:LEU:C	1:A:1185:GLU:OE2	2.57	0.43
1:A:1492:ASN:C	1:A:1493:ILE:CG1	2.83	0.43
1:C:1344:ASN:CG	1:C:1345:ILE:N	2.72	0.43
1:C:1344:ASN:OD1	1:C:1345:ILE:N	2.52	0.43
1:C:1340:TRP:CZ3	1:C:1367:LYS:HD2	2.54	0.43
1:C:1261:VAL:HG13	1:C:1295:TYR:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:1599:PHE:CE2	1:A:1600:ILE:HG13	2.54	0.43
1:B:1587:TRP:CD1	1:B:1587:TRP:N	2.86	0.43
1:C:1584:GLU:C	1:C:1586:ALA:H	2.22	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
2:F:162:GLN:CB	2:F:166:ALA:CB	2.96	0.43
1:B:1400:ASN:OD1	1:B:1402:GLU:HB3	2.17	0.43
2:E:108:GLU:O	2:E:108:GLU:OE1	2.37	0.43
1:C:1113:LYS:CB	1:C:1139:GLU:OE2	2.65	0.43
1:B:1303:LEU:H	1:B:1303:LEU:HD23	1.84	0.43
1:C:1175:PHE:O	1:C:1178:ALA:HB3	2.19	0.43
1:A:1340:TRP:CZ3	1:A:1367:LYS:HD2	2.54	0.43
1:B:1517:GLY:C	1:B:1519:ASN:N	2.72	0.43
1:B:1279:HIS:CB	1:B:1282:GLU:CB	2.86	0.43
1:A:1562:LYS:C	1:A:1564:GLU:N	2.70	0.43
1:B:1111:LEU:HD22	1:B:1111:LEU:C	2.28	0.43
1:B:1435:ALA:O	1:B:1439:PHE:HD2	2.01	0.43
1:C:1472:ILE:CG2	1:C:1498:ARG:HE	2.20	0.43
1:B:1170:GLU:O	1:B:1174:ILE:HG13	2.18	0.43
1:B:1130:LYS:HZ3	1:B:1156:TYR:HD1	1.67	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:C:1161:ARG:HD3	1:C:1165:ARG:HD3	2.01	0.43
1:C:1161:ARG:O	1:C:1165:ARG:HB3	2.19	0.43
1:A:1390:GLN:HB2	1:A:1390:GLN:HE21	1.63	0.43
1:B:1206:TYR:HD1	1:B:1226:ARG:O	2.00	0.43
1:C:1264:LYS:HZ1	1:C:1268:LEU:HD13	1.81	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
2:F:94:ARG:HG2	2:F:94:ARG:HH21	1.84	0.42
1:B:1325:SER:OG	1:B:1326:LYS:HE3	2.19	0.42
1:B:1332:MET:HG3	1:B:1357:LEU:HD12	1.98	0.42
1:B:1107:VAL:HG12	1:B:1111:LEU:CB	2.42	0.42
1:B:1362:VAL:HG23	1:B:1377:THR:HG21	1.98	0.42
1:C:1361:LEU:HD21	1:C:1365:TYR:HH	1.83	0.42
1:B:1467:LEU:O	1:B:1470:LEU:HB2	2.18	0.42
1:B:1130:LYS:CE	1:B:1156:TYR:HA	2.42	0.42
1:A:1609:LYS:HG2	1:A:1612:LYS:CD	2.44	0.42
2:D:173:UNK:C	2:D:176:UNK:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1490:PHE:CZ	1:B:1492:ASN:CG	2.86	0.42
1:C:1162:LYS:CD	1:C:1163:LYS:HZ2	2.29	0.42
2:E:145:GLN:O	2:E:149:ASN:ND2	2.52	0.42
1:A:1303:LEU:HD23	1:A:1303:LEU:H	1.84	0.42
1:B:1213:ALA:O	1:B:1217:LEU:HB2	2.20	0.42
1:B:1517:GLY:O	1:B:1519:ASN:N	2.52	0.42
1:A:1332:MET:HG3	1:A:1357:LEU:HD12	1.98	0.42
1:B:1104:GLU:HB2	1:B:1108:TRP:HH2	1.76	0.42
1:A:1082:VAL:HB	1:A:1098:PHE:O	2.19	0.42
1:C:1417:LEU:HD22	1:C:1417:LEU:HA	1.90	0.42
1:B:1566:PHE:CE1	2:D:179:UNK:CB	2.95	0.42
1:A:1142:GLN:C	1:A:1142:GLN:CD	2.77	0.42
1:C:1504:LEU:HG	2:E:149:ASN:OD1	2.20	0.42
1:C:1257:CYS:CB	1:C:1289:TYR:OH	2.64	0.42
1:C:1333:ARG:CG	1:C:1360:GLU:HG3	2.48	0.42
1:A:1274:LEU:CD1	1:A:1274:LEU:H	2.20	0.42
1:B:1323:LEU:O	1:B:1327:PHE:CD2	2.72	0.42
1:C:1554:LEU:CD1	1:C:1568:ALA:HB2	2.44	0.42
1:B:1086:ILE:O	1:B:1090:GLY:N	2.52	0.42
1:C:1443:LYS:O	1:C:1444:GLN:HG3	2.19	0.42
1:C:1146:THR:C	1:C:1148:GLY:H	2.22	0.42
1:B:1170:GLU:O	1:B:1173:LEU:N	2.52	0.42
1:B:1177:LEU:C	1:B:1185:GLU:OE2	2.57	0.42
1:B:1174:ILE:HG12	1:B:1189:PHE:HE1	1.84	0.42
1:A:1130:LYS:HD2	1:A:1156:TYR:CZ	2.40	0.42
1:C:1230:THR:O	1:C:1231:LEU:HG	2.20	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:A:1517:GLY:C	1:A:1519:ASN:N	2.72	0.42
1:B:1261:VAL:HG13	1:B:1295:TYR:CE1	2.54	0.42
1:A:1600:ILE:HA	1:A:1603:MET:HE2	2.01	0.42
1:B:1599:PHE:CE2	1:B:1600:ILE:HG13	2.54	0.42
1:C:1362:VAL:HG23	1:C:1377:THR:HG21	1.98	0.42
1:A:1373:ASN:HA	1:A:1376:ILE:HD12	2.01	0.42
1:A:1420:ASN:C	1:A:1422:LEU:N	2.72	0.42
1:A:1443:LYS:O	1:A:1444:GLN:HG3	2.19	0.42
1:B:1471:PHE:HA	1:B:1474:GLU:CG	2.43	0.42
1:C:1469:ASN:ND2	1:C:1498:ARG:NH1	2.67	0.42
1:B:1161:ARG:HA	1:B:1165:ARG:N	2.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1492:ASN:C	1:C:1493:ILE:CG1	2.83	0.42
1:B:1521:TRP:CZ3	1:B:1522:LYS:CD	3.01	0.42
1:A:1431:ASP:C	1:A:1433:THR:N	2.72	0.42
1:A:1513:TYR:O	1:A:1516:LYS:N	2.52	0.42
1:B:1175:PHE:CE1	1:B:1200:GLN:HB3	2.53	0.42
1:A:1517:GLY:O	1:A:1519:ASN:N	2.52	0.42
1:A:1333:ARG:CG	1:A:1360:GLU:HG3	2.48	0.42
1:B:1111:LEU:HD21	1:B:1115:GLN:HG2	1.99	0.42
1:A:1111:LEU:HD21	1:A:1125:ILE:HG12	2.00	0.42
1:C:1080:SER:C	1:C:1082:VAL:H	2.21	0.42
1:C:1086:ILE:O	1:C:1090:GLY:N	2.52	0.42
1:A:1435:ALA:O	1:A:1439:PHE:HD2	2.01	0.42
1:B:1443:LYS:O	1:B:1444:GLN:HG3	2.20	0.42
1:C:1476:ASP:CG	1:C:1479:ALA:HB3	2.39	0.42
1:A:1146:THR:C	1:A:1148:GLY:H	2.22	0.42
2:E:106:ARG:C	2:E:108:GLU:H	2.23	0.42
1:A:1213:ALA:O	1:A:1217:LEU:HB2	2.19	0.42
1:C:1177:LEU:C	1:C:1185:GLU:OE2	2.57	0.42
1:A:1521:TRP:CZ3	1:A:1525:VAL:HG11	2.55	0.42
1:A:1094:ARG:O	1:A:1097:GLU:HB2	2.20	0.42
1:C:1340:TRP:H	1:C:1340:TRP:HD1	1.67	0.42
1:A:1517:GLY:C	1:A:1519:ASN:H	2.20	0.42
2:D:201:UNK:O	2:D:202:UNK:C	2.66	0.42
1:A:1456:GLN:HE22	1:A:1467:LEU:CD2	2.33	0.42
1:B:1422:LEU:C	1:B:1422:LEU:HD13	2.40	0.42
1:B:1469:ASN:ND2	1:B:1498:ARG:NH1	2.67	0.42
1:C:1456:GLN:HE22	1:C:1467:LEU:CD2	2.33	0.42
1:C:1170:GLU:CG	1:C:1171:THR:N	2.83	0.42
2:D:137:GLU:HG3	2:D:141:ARG:HH12	1.84	0.42
1:A:1387:LYS:O	1:A:1389:GLY:N	2.53	0.42
1:B:1387:LYS:O	1:B:1389:GLY:N	2.53	0.42
1:B:1388:GLU:CG	1:B:1389:GLY:N	2.82	0.42
1:A:1230:THR:O	1:A:1231:LEU:HG	2.20	0.42
1:C:1513:TYR:O	1:C:1516:LYS:N	2.52	0.42
1:A:1333:ARG:CA	1:A:1360:GLU:CG	2.97	0.42
2:F:102:ILE:C	2:F:104:LYS:H	2.23	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:A:1348:VAL:O	1:A:1352:ALA:N	2.52	0.42
1:B:1508:ARG:CZ	1:B:1530:LYS:HD3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1375:ILE:HD13	1:C:1378:MET:HE1	2.02	0.42
2:E:105:TRP:CA	2:E:108:GLU:CG	2.98	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:B:1158:GLN:OE1	1:B:1159:MET:HE1	2.19	0.42
1:C:1158:GLN:OE1	1:C:1159:MET:HE1	2.20	0.42
1:A:1340:TRP:HD1	1:A:1340:TRP:H	1.67	0.42
1:B:1340:TRP:H	1:B:1340:TRP:HD1	1.67	0.42
1:A:1325:SER:OG	1:A:1326:LYS:HE3	2.19	0.42
1:B:1258:PHE:C	1:B:1260:CYS:H	2.23	0.42
1:C:1107:VAL:HG12	1:C:1111:LEU:CB	2.42	0.42
1:A:1469:ASN:ND2	1:A:1498:ARG:NH1	2.67	0.42
1:A:1472:ILE:CG2	1:A:1498:ARG:HH21	2.33	0.42
1:A:1471:PHE:HD1	1:A:1476:ASP:HB3	1.85	0.42
1:A:1358:TRP:CE2	2:F:115:GLU:HG2	2.46	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:1472:ILE:CG2	1:C:1498:ARG:HH21	2.33	0.42
1:B:1165:ARG:CG	1:B:1170:GLU:OE1	2.68	0.42
1:B:1375:ILE:HD13	1:B:1378:MET:HE1	2.01	0.42
2:E:105:TRP:O	2:E:108:GLU:CD	2.58	0.42
1:A:1493:ILE:O	1:A:1494:SER:C	2.58	0.42
1:C:1388:GLU:CG	1:C:1389:GLY:N	2.82	0.42
1:C:1206:TYR:CZ	1:C:1226:ARG:HD2	2.55	0.42
1:B:1206:TYR:CZ	1:B:1226:ARG:HD2	2.55	0.42
1:B:1175:PHE:O	1:B:1178:ALA:HB3	2.19	0.42
1:A:1175:PHE:O	1:A:1178:ALA:HB3	2.19	0.42
1:A:1261:VAL:HG13	1:A:1295:TYR:CE1	2.54	0.42
1:A:1584:GLU:C	1:A:1586:ALA:H	2.22	0.42
1:B:1584:GLU:C	1:B:1586:ALA:H	2.22	0.42
1:A:1422:LEU:HD13	1:A:1422:LEU:C	2.40	0.42
1:B:1456:GLN:HE22	1:B:1467:LEU:CD2	2.33	0.42
2:D:145:GLN:O	2:D:149:ASN:ND2	2.52	0.42
1:B:1167:SER:O	1:B:1172:GLU:N	2.53	0.42
1:A:1161:ARG:HA	1:A:1165:ARG:N	2.34	0.42
1:A:1387:LYS:HD2	1:A:1390:GLN:CD	2.41	0.42
1:C:1521:TRP:CZ3	1:C:1525:VAL:HG11	2.54	0.42
1:A:1621:LYS:HB3	1:A:1625:GLN:NE2	2.35	0.42
1:A:1206:TYR:CZ	1:A:1226:ARG:HD2	2.55	0.42
1:C:1368:TYR:O	1:C:1368:TYR:HD1	2.03	0.42
1:B:1094:ARG:O	1:B:1097:GLU:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1513:TYR:O	1:B:1516:LYS:N	2.52	0.42
2:F:102:ILE:C	2:F:104:LYS:N	2.73	0.42
1:B:1597:PRO:HA	1:B:1599:PHE:CE1	2.55	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
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:C:1401:VAL:HG22	1:C:1429:ARG:HH21	1.84	0.42
1:C:1422:LEU:C	1:C:1422:LEU:HD13	2.40	0.42
1:C:1474:GLU:O	1:C:1475:GLU:CB	2.68	0.42
1:C:1174:ILE:HG12	1:C:1189:PHE:HE1	1.84	0.42
1:B:1609:LYS:HA	1:B:1612:LYS:CG	2.47	0.42
1:A:1388:GLU:CG	1:A:1389:GLY:N	2.82	0.42
1:B:1521:TRP:CZ3	1:B:1525:VAL:HG11	2.54	0.42
1:C:1345:ILE:HB	1:C:1368:TYR:HE2	1.84	0.42
1:C:1431:ASP:C	1:C:1433:THR:N	2.72	0.42
2:F:107:GLU:O	2:F:110:ARG:HG2	2.20	0.42
1:A:1296:PHE:HZ	2:F:101:SER:HA	1.84	0.41
1:A:1533:LEU:O	1:A:1535:LYS:N	2.53	0.41
1:C:1538:MET:CE	1:C:1566:PHE:HB3	2.46	0.41
1:B:1345:ILE:HB	1:B:1368:TYR:HE2	1.84	0.41
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:C:1373:ASN:HA	1:C:1376:ILE:HD12	2.02	0.41
1:B:1146:THR:C	1:B:1148:GLY:H	2.22	0.41
2:E:105:TRP:HA	2:E:108:GLU:OE2	2.20	0.41
1:C:1161:ARG:HA	1:C:1165:ARG:N	2.34	0.41
1:B:1154:VAL:CB	1:B:1180:THR:HG21	2.50	0.41
1:B:1609:LYS:HG2	1:B:1612:LYS:CD	2.44	0.41
1:C:1387:LYS:HD2	1:C:1390:GLN:CD	2.41	0.41
2:D:107:GLU:O	2:D:110:ARG:HG2	2.20	0.41
1:C:1258:PHE:C	1:C:1260:CYS:H	2.23	0.41
1:C:1323:LEU:O	1:C:1327:PHE:CD2	2.72	0.41
1:A:1258:PHE:C	1:A:1260:CYS:H	2.23	0.41
1:A:1323:LEU:O	1:A:1327:PHE:CD2	2.72	0.41
1:A:1554:LEU:HB2	1:A:1571:PHE:CE2	2.56	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:1596:MET:N	1:C:1597:PRO:CD	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1599:PHE:CE2	1:C:1600:ILE:HG13	2.54	0.41
1:B:1348:VAL:O	1:B:1352:ALA:N	2.52	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:1345:ILE:HB	1:A:1368:TYR:HE2	1.84	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:1358:TRP:HE1	2:F:115:GLU:HG2	1.71	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:B:1167:SER:CB	1:B:1197:HIS:H	2.30	0.41
1:A:1130:LYS:HZ3	1:A:1156:TYR:HD1	1.67	0.41
1:A:1170:GLU:CG	1:A:1171:THR:N	2.83	0.41
1:C:1154:VAL:HG13	1:C:1176:ALA:HB1	2.01	0.41
1:B:1154:VAL:HG13	1:B:1176:ALA:HB1	2.01	0.41
1:B:1493:ILE:O	1:B:1494:SER:C	2.58	0.41
1:A:1209:LYS:HB3	1:A:1230:THR:CG2	2.34	0.41
1:C:1520:ARG:H	1:C:1520:ARG:HD2	1.85	0.41
1:C:1517:GLY:O	1:C:1519:ASN:N	2.53	0.41
1:C:1329:PRO:HB2	1:C:1330:GLN:H	1.62	0.41
1:B:1533:LEU:CD2	1:B:1535:LYS:HB2	2.50	0.41
1:C:1597:PRO:HA	1:C:1599:PHE:CE1	2.55	0.41
1:B:1368:TYR:HD1	1:B:1368:TYR:O	2.03	0.41
1:C:1121:VAL:HG12	1:C:1124:ALA:HB3	2.01	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:1162:LYS:NZ	1:B:1163:LYS:HZ3	2.16	0.41
1:C:1493:ILE:O	1:C:1494:SER:C	2.58	0.41
1:B:1521:TRP:CH2	1:B:1525:VAL:HG11	2.56	0.41
1:B:1230:THR:O	1:B:1231:LEU:HG	2.20	0.41
1:C:1517:GLY:C	1:C:1519:ASN:N	2.72	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:A:1533:LEU:CD2	1:A:1535:LYS:HB2	2.50	0.41
1:C:1561:GLU:CG	1:C:1562:LYS:H	2.33	0.41
1:C:1554:LEU:HB2	1:C:1571:PHE:CE2	2.55	0.41
1:A:1358:TRP:CH2	1:A:1381:HIS:CD2	2.92	0.41
1:A:1375:ILE:HD13	1:A:1378:MET:HE1	2.01	0.41
1:A:1474:GLU:O	1:A:1475:GLU:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1476:ASP:CG	1:A:1479:ALA:HB3	2.39	0.41
2:F:163:GLN:H	2:F:166:ALA:HB3	1.75	0.41
2:E:104:LYS:C	2:E:108:GLU:HG2	2.36	0.41
1:C:1617:GLU:HA	1:C:1620:ARG:CZ	2.50	0.41
1:C:1521:TRP:CH2	1:C:1525:VAL:HG11	2.56	0.41
1:A:1521:TRP:CZ3	1:A:1522:LYS:CD	3.01	0.41
1:A:1209:LYS:HD3	1:A:1231:LEU:HB3	2.02	0.41
2:E:152:ASN:O	2:E:153:ASN:CB	2.59	0.41
1:A:1597:PRO:HA	1:A:1599:PHE:CE1	2.55	0.41
1:B:1554:LEU:HB2	1:B:1571:PHE:CE2	2.55	0.41
1:A:1598:TYR:HE1	1:B:1588:ARG:HB2	1.69	0.41
1:B:1318:THR:HG22	1:B:1347:LYS:NZ	2.35	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
2:E:134:ASP:HA	2:E:137:GLU:OE1	2.21	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:C:1170:GLU:OE1	1:C:1195:ASN:OD1	2.38	0.41
1:C:1387:LYS:O	1:C:1389:GLY:N	2.53	0.41
1:A:1392:LYS:HE2	1:A:1392:LYS:HB3	1.87	0.41
1:A:1209:LYS:HG3	1:A:1209:LYS:H	1.65	0.41
2:D:186:UNK:C	2:D:188:UNK:N	2.83	0.41
1:A:1277:VAL:C	1:A:1279:HIS:HD1	2.19	0.41
1:B:1381:HIS:N	1:B:1382:PRO:CD	2.82	0.41
1:A:1368:TYR:O	1:A:1368:TYR:HD1	2.03	0.41
1:B:1401:VAL:O	1:B:1401:VAL:HG12	2.21	0.41
1:B:1469:ASN:O	1:B:1469:ASN:ND2	2.48	0.41
2:D:148:LYS:C	2:D:151:ILE:HG23	2.41	0.41
2:E:98:GLU:HA	2:E:98:GLU:OE1	2.21	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:1154:VAL:HG13	1:A:1176:ALA:HB1	2.01	0.41
1:C:1206:TYR:CD1	1:C:1226:ARG:O	2.74	0.41
1:A:1209:LYS:HG2	1:A:1230:THR:HG23	2.03	0.41
2:E:148:LYS:C	2:E:151:ILE:HG23	2.41	0.41
1:C:1303:LEU:H	1:C:1303:LEU:HD23	1.84	0.41
1:B:1520:ARG:HD2	1:B:1520:ARG:H	1.85	0.41
1:C:1104:GLU:CB	1:C:1108:TRP:HZ2	2.22	0.41
1:A:1378:MET:SD	1:A:1391:PHE:HD2	2.44	0.41
2:F:134:ASP:HA	2:F:137:GLU:OE1	2.21	0.41
1:B:1161:ARG:HD3	1:B:1165:ARG:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1194:ASN:HB2	1:B:1195:ASN:H	1.48	0.41
1:A:1161:ARG:HD3	1:A:1165:ARG:HD3	2.02	0.41
1:C:1167:SER:O	1:C:1172:GLU:N	2.53	0.41
2:E:189:UNK:N	2:E:194:UNK:CB	2.83	0.41
1:A:1521:TRP:CH2	1:A:1525:VAL:HG11	2.56	0.41
1:B:1264:LYS:HZ1	1:B:1268:LEU:HD13	1.84	0.41
1:A:1569:CYS:C	1:A:1571:PHE:N	2.73	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:C:1078:ASN:HB2	1:C:1101:ARG:HB2	2.03	0.41
1:A:1382:PRO:O	1:A:1384:ASP:N	2.54	0.41
1:B:1467:LEU:HG	1:B:1471:PHE:HE2	1.81	0.41
2:E:134:ASP:HA	2:E:137:GLU:HB2	2.03	0.41
1:B:1161:ARG:O	1:B:1165:ARG:HB3	2.19	0.41
1:A:1161:ARG:O	1:A:1165:ARG:HB3	2.19	0.41
1:A:1113:LYS:CB	1:A:1139:GLU:OE2	2.65	0.41
1:C:1240:ALA:C	1:C:1242:ASP:N	2.74	0.41
1:A:1601:GLN:HA	1:A:1604:LYS:CD	2.51	0.41
1:B:1561:GLU:CD	1:B:1562:LYS:H	2.24	0.41
1:B:1342:ARG:O	1:B:1343:VAL:HB	2.21	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: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
2:F:134:ASP:HA	2:F:137:GLU:HB2	2.03	0.41
1:B:1402:GLU:CD	1:B:1402:GLU:C	2.79	0.41
2:D:126:GLU:OE2	2:D:129:GLU:CD	2.59	0.41
1:C:1379:MET:SD	1:C:1403:LEU:HD21	2.61	0.41
1:C:1420:ASN:HA	1:C:1423:LEU:CD1	2.51	0.41
1:C:1474:GLU:O	1:C:1475:GLU:HB2	2.21	0.41
1:C:1471:PHE:HD1	1:C:1476:ASP:HB3	1.85	0.41
2:E:120:SER:O	2:E:124:GLU:N	2.52	0.41
1:B:1148:GLY:HA3	1:B:1150:TRP:CZ3	2.42	0.41
1:B:1144:ALA:HB3	1:B:1153:LEU:HD13	2.02	0.41
1:A:1144:ALA:HB3	1:A:1153:LEU:HD13	2.02	0.41
1:B:1170:GLU:OE2	1:B:1195:ASN:OD1	2.38	0.41
1:C:1496:ALA:CB	1:C:1515:PHE:CZ	3.02	0.41
1:C:1621:LYS:HB3	1:C:1625:GLN:NE2	2.35	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:A:1625:GLN:OE1	1:B:1617:GLU:OE2	2.39	0.41
2:D:103:ARG:HA	2:D:106:ARG:HB2	2.03	0.41
1:B:1209:LYS:HD3	1:B:1231:LEU:HB3	2.03	0.41
1:A:1206:TYR:CD1	1:A:1226:ARG:O	2.74	0.41
1:A:1234:LEU:C	1:A:1236:GLU:N	2.70	0.41
1:A:1327:PHE:HE1	2:F:104:LYS:HA	1.79	0.41
1:B:1296:PHE:HB2	1:B:1297:GLU:H	1.53	0.41
1:B:1569:CYS:C	1:B:1571:PHE:N	2.74	0.41
1:B:1572:THR:CG2	1:B:1578:ARG:HB3	2.51	0.41
1:C:1533:LEU:CD2	1:C:1535:LYS:HB2	2.50	0.41
1:B:1078:ASN:HB2	1:B:1101:ARG:HB2	2.03	0.41
1:B:1346:PRO:HG2	1:B:1347:LYS:H	1.86	0.41
1:A:1401:VAL:HG12	1:A:1401:VAL:O	2.21	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:C:1401:VAL:HG12	1:C:1401:VAL:O	2.21	0.41
1:C:1402:GLU:CD	1:C:1402:GLU:C	2.79	0.41
1:C:1449:LYS:O	1:C:1453:ARG:NH1	2.54	0.41
1:C:1144:ALA:HB3	1:C:1153:LEU:HD13	2.02	0.41
2:E:94:ARG:C	2:E:96:THR:N	2.73	0.41
2:D:95:LEU:O	2:D:99:PRO:HD2	2.20	0.41
1:C:1342:ARG:O	1:C:1343:VAL:HB	2.21	0.41
1:C:1316:MET:HB2	1:C:1317:PHE:HD2	1.86	0.41
2:E:91:GLN:OE1	2:E:92:ALA:HA	2.21	0.41
1:A:1270:GLN:CD	1:A:1298:GLU:CB	2.84	0.40
1:B:1240:ALA:C	1:B:1242:ASP:N	2.73	0.40
1:B:1335:HIS:O	1:B:1338:LEU:HB2	2.21	0.40
2:E:178:UNK:O	2:E:180:UNK:N	2.54	0.40
1:A:1077:VAL:C	1:A:1079:THR:N	2.74	0.40
1:A:1085:LEU:HD23	1:A:1085:LEU:N	2.12	0.40
1:A:1346:PRO:HG2	1:A:1347:LYS:H	1.86	0.40
1:A:1402:GLU:CD	1:A:1402:GLU:C	2.79	0.40
1:A:1502:HIS:O	1:A:1508:ARG:HD2	2.21	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
2:D:126:GLU:HG3	2:D:130:LYS:CE	2.52	0.40
1:C:1401:VAL:HA	1:C:1404:TYR:HD1	1.82	0.40
1:B:1378:MET:SD	1:B:1391:PHE:HD2	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1387:LYS:HD2	1:B:1390:GLN:CD	2.41	0.40
1:A:1625:GLN:HE22	1:B:1621:LYS:HZ2	1.69	0.40
1:B:1465:GLU:C	1:B:1465:GLU:OE1	2.59	0.40
1:B:1151:GLU:CG	1:B:1151:GLU:O	2.68	0.40
1:A:1520:ARG:HD2	1:A:1520:ARG:H	1.85	0.40
1:C:1335:HIS:O	1:C:1338:LEU:HB2	2.21	0.40
1:B:1333:ARG:CB	1:B:1360:GLU:HG2	2.46	0.40
1:A:1086:ILE:HG22	1:A:1087:GLU:N	2.36	0.40
1:C:1104:GLU:HB2	1:C:1108:TRP:HH2	1.76	0.40
1:C:1358:TRP:CZ3	1:C:1381:HIS:CG	3.06	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:1466:SER:O	1:A:1470:LEU:N	2.52	0.40
2:F:148:LYS:C	2:F:151:ILE:HG23	2.41	0.40
1:B:1379:MET:SD	1:B:1403:LEU:HD21	2.61	0.40
2:D:151:ILE:CG1	2:D:152:ASN:N	2.84	0.40
1:B:1539:GLN:NE2	2:D:179:UNK:CB	2.84	0.40
1:B:1167:SER:HA	1:B:1171:THR:N	2.29	0.40
1:B:1170:GLU:C	1:B:1172:GLU:H	2.24	0.40
1:C:1167:SER:O	1:C:1171:THR:C	2.60	0.40
1:C:1170:GLU:OE2	1:C:1195:ASN:OD1	2.38	0.40
1:B:1218:TYR:CD2	1:B:1227:LEU:HD12	2.57	0.40
1:C:1619:LEU:O	1:C:1620:ARG:C	2.59	0.40
1:B:1621:LYS:HB3	1:B:1625:GLN:NE2	2.35	0.40
1:A:1232:VAL:O	1:A:1233:HIS:HB3	2.21	0.40
1:C:1465:GLU:OE1	1:C:1465:GLU:C	2.59	0.40
1:A:1335:HIS:O	1:A:1338:LEU:HB2	2.21	0.40
2:F:91:GLN:HE22	2:F:94:ARG:HG2	1.85	0.40
1:B:1578:ARG:NH2	1:B:1583:LEU:HD23	2.28	0.40
1:C:1601:GLN:HA	1:C:1604:LYS:CD	2.51	0.40
1:C:1105:PRO:O	1:C:1106:ALA:HB3	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:1502:HIS:O	1:B:1508:ARG:HD2	2.21	0.40
1:C:1444:GLN:NE2	2:E:130:LYS:HD2	2.36	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:C:1164:ALA:O	1:C:1166:GLU:HB3	2.22	0.40
1:B:1113:LYS:CB	1:B:1139:GLU:OE2	2.65	0.40
1:C:1502:HIS:O	1:C:1508:ARG:HD2	2.21	0.40
1:B:1206:TYR:CD1	1:B:1226:ARG:O	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1236:GLU:HB3	1:A:1237:TYR:H	1.78	0.40
1:B:1431:ASP:C	1:B:1433:THR:N	2.72	0.40
1:B:1091:ASN:HD22	1:B:1091:ASN:C	2.24	0.40
1:C:1137:TYR:HD2	1:C:1138:MET:H	1.69	0.40
1:B:1137:TYR:HD2	1:B:1138:MET:H	1.69	0.40
1:C:1548:GLU:CD	1:C:1548:GLU:N	2.75	0.40
1:A:1538:MET:O	1:A:1570:LEU:HD13	2.22	0.40
1:C:1538:MET:O	1:C:1570:LEU:HD13	2.22	0.40
1:C:1077:VAL:C	1:C:1079:THR:N	2.74	0.40
1:A:1508:ARG:CZ	1:A:1530:LYS:HD3	2.49	0.40
1:C:1403:LEU:HD13	1:C:1407:ALA:HB2	2.04	0.40
2:E:126:GLU:OE2	2:E:129:GLU:CD	2.59	0.40
1:B:1166:GLU:OE1	1:B:1168:TYR:CG	2.74	0.40
1:C:1378:MET:SD	1:C:1391:PHE:HD2	2.44	0.40
1:A:1161:ARG:HE	1:A:1165:ARG:HD2	1.78	0.40
1:C:1116:LEU:CD1	1:C:1143:ALA:HB1	2.51	0.40
2:D:186:UNK:C	2:D:188:UNK:H	2.34	0.40
2:D:185:UNK:CA	2:D:189:UNK:O	2.54	0.40
1:B:1316:MET:HB2	1:B:1317:PHE:HD2	1.87	0.40
1:C:1576:LEU:HA	1:C:1576:LEU:HD12	1.78	0.40
1:A:1240:ALA:C	1:A:1242:ASP:N	2.74	0.40
1:A:1279:HIS:CB	1:A:1282:GLU:CB	2.86	0.40
1:A:1578:ARG:NH2	1:A:1583:LEU:HD23	2.27	0.40
1:B:1567:GLY:O	1:B:1569:CYS:N	2.55	0.40
1:B:1077:VAL:C	1:B:1079:THR:N	2.74	0.40
1:B:1086:ILE:HG22	1:B:1087:GLU:N	2.36	0.40
2:D:109:GLN:O	2:D:112:ARG:CB	2.66	0.40
1:C:1382:PRO:O	1:C:1384:ASP:N	2.54	0.40
1:B:1412:LEU:HA	1:B:1419:LEU:HD13	1.99	0.40
1:C:1453:ARG:HG2	1:C:1453:ARG:NH1	2.37	0.40
1:B:1201:VAL:O	1:B:1205:CYS:SG	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:1504:LEU:CD2	2:E:149:ASN:OD1	2.70	0.40
1:A:1619:LEU:O	1:A:1620:ARG:C	2.59	0.40
2:E:151:ILE:CG1	2:E:152:ASN:N	2.84	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:1303:LEU:O	1:C:1338:LEU:CD2[7_645]	2.08	0.12
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: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:B:1199:GLN:CD	2:F:107:GLU:CD[5_545]	2.13	0.07
1:A:1101:ARG:NE	1:C:1101:ARG:CD[8_465]	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:1194:ASN:ND2	2:F:95:LEU:O[5_545]	2.17	0.03
1:B:1088:HIS:O	1:B:1094:ARG:CD[8_556]	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%)	1	14
1	B	552/624 (88%)	332 (60%)	166 (30%)	54 (10%)	1	14
1	C	552/624 (88%)	332 (60%)	166 (30%)	54 (10%)	1	14
2	D	77/205 (38%)	50 (65%)	16 (21%)	11 (14%)	0	6
2	E	66/205 (32%)	35 (53%)	21 (32%)	10 (15%)	0	5
2	F	76/205 (37%)	42 (55%)	20 (26%)	14 (18%)	0	4
All	All	1875/2487 (75%)	1123 (60%)	553 (30%)	199 (11%)	0	11

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%)	410 (84%)	76 (16%)	3	21
1	B	486/541 (90%)	409 (84%)	77 (16%)	3	21
1	C	486/541 (90%)	410 (84%)	76 (16%)	3	21
2	D	62/128 (48%)	45 (73%)	17 (27%)	0	4
2	E	61/128 (48%)	42 (69%)	19 (31%)	0	2
2	F	62/128 (48%)	42 (68%)	20 (32%)	0	2
All	All	1643/2007 (82%)	1358 (83%)	285 (17%)	2	17

All (285) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1091	ASN
1	A	1096	TYR
1	A	1098	PHE
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	1156	TYR
1	A	1161	ARG
1	A	1162	LYS
1	A	1163	LYS
1	A	1165	ARG
1	A	1166	GLU
1	A	1168	TYR

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Mol	Chain	Res	Type
1	A	1172	GLU
1	A	1175	PHE
1	A	1191	ASN
1	A	1194	ASN
1	A	1198	ILE
1	A	1209	LYS
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	1258	PHE
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	1311	ARG
1	A	1317	PHE
1	A	1326	LYS
1	A	1340	TRP
1	A	1344	ASN
1	A	1345	ILE
1	A	1350	ARG
1	A	1354	GLN
1	A	1377	THR
1	A	1383	THR
1	A	1384	ASP
1	A	1390	GLN
1	A	1417	LEU
1	A	1419	LEU
1	A	1422	LEU
1	A	1424	MET
1	A	1447	LEU
1	A	1458	HIS
1	A	1460	ASN
1	A	1469	ASN
1	A	1489	ASN
1	A	1490	PHE

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Mol	Chain	Res	Type
1	A	1504	LEU
1	A	1505	ILE
1	A	1526	GLU
1	A	1527	LEU
1	A	1529	LYS
1	A	1536	ASP
1	A	1540	TYR
1	A	1549	LEU
1	A	1574	TYR
1	A	1577	LEU
1	A	1578	ARG
1	A	1592	MET
1	A	1597	PRO
1	A	1598	TYR
1	A	1601	GLN
1	A	1611	ASP
1	A	1620	ARG
1	B	1091	ASN
1	B	1096	TYR
1	B	1098	PHE
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	1156	TYR
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	1175	PHE
1	B	1191	ASN
1	B	1194	ASN
1	B	1198	ILE
1	B	1209	LYS
1	B	1212	ASP
1	B	1217	LEU

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Mol	Chain	Res	Type
1	B	1221	VAL
1	B	1226	ARG
1	B	1227	LEU
1	B	1245	ARG
1	B	1258	PHE
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	1311	ARG
1	B	1317	PHE
1	B	1326	LYS
1	B	1339	PHE
1	B	1340	TRP
1	B	1344	ASN
1	B	1345	ILE
1	B	1350	ARG
1	B	1354	GLN
1	B	1377	THR
1	B	1383	THR
1	B	1384	ASP
1	B	1390	GLN
1	B	1417	LEU
1	B	1419	LEU
1	B	1422	LEU
1	B	1424	MET
1	B	1447	LEU
1	B	1458	HIS
1	B	1460	ASN
1	B	1469	ASN
1	B	1489	ASN
1	B	1490	PHE
1	B	1504	LEU
1	B	1505	ILE
1	B	1526	GLU
1	B	1527	LEU
1	B	1529	LYS
1	B	1536	ASP
1	B	1540	TYR

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Mol	Chain	Res	Type
1	B	1549	LEU
1	B	1574	TYR
1	B	1577	LEU
1	B	1578	ARG
1	B	1592	MET
1	B	1597	PRO
1	B	1598	TYR
1	B	1601	GLN
1	B	1611	ASP
1	B	1620	ARG
1	C	1091	ASN
1	C	1096	TYR
1	C	1098	PHE
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	1156	TYR
1	C	1161	ARG
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	1175	PHE
1	C	1191	ASN
1	C	1194	ASN
1	C	1198	ILE
1	C	1209	LYS
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	1258	PHE
1	C	1261	VAL
1	C	1262	ASP

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Mol	Chain	Res	Type
1	C	1274	LEU
1	C	1290	TYR
1	C	1295	TYR
1	C	1296	PHE
1	C	1303	LEU
1	C	1311	ARG
1	C	1317	PHE
1	C	1326	LYS
1	C	1340	TRP
1	C	1344	ASN
1	C	1345	ILE
1	C	1350	ARG
1	C	1354	GLN
1	C	1377	THR
1	C	1383	THR
1	C	1384	ASP
1	C	1390	GLN
1	C	1417	LEU
1	C	1419	LEU
1	C	1422	LEU
1	C	1424	MET
1	C	1447	LEU
1	C	1458	HIS
1	C	1460	ASN
1	C	1469	ASN
1	C	1489	ASN
1	C	1490	PHE
1	C	1504	LEU
1	C	1505	ILE
1	C	1526	GLU
1	C	1527	LEU
1	C	1529	LYS
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	1597	PRO
1	C	1598	TYR
1	C	1601	GLN

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Mol	Chain	Res	Type
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	110	ARG
2	D	112	ARG
2	D	114	GLN
2	D	116	LEU
2	D	120	SER
2	D	123	MET
2	D	125	GLN
2	D	127	TRP
2	D	130	LYS
2	D	133	LYS
2	D	137	GLU
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	110	ARG
2	E	112	ARG
2	E	114	GLN
2	E	116	LEU
2	E	120	SER
2	E	123	MET
2	E	125	GLN
2	E	127	TRP
2	E	130	LYS
2	E	133	LYS
2	E	137	GLU
2	E	140	GLN
2	E	153	ASN
2	E	155	ILE
2	F	91	GLN
2	F	93	ASP
2	F	94	ARG
2	F	97	GLN

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Mol	Chain	Res	Type
2	F	105	TRP
2	F	106	ARG
2	F	108	GLU
2	F	110	ARG
2	F	112	ARG
2	F	114	GLN
2	F	116	LEU
2	F	120	SER
2	F	123	MET
2	F	125	GLN
2	F	127	TRP
2	F	130	LYS
2	F	133	LYS
2	F	137	GLU
2	F	140	GLN
2	F	153	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (71) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1083	GLN
1	A	1091	ASN
1	A	1103	ASN
1	A	1117	GLN
1	A	1145	ASN
1	A	1191	ASN
1	A	1223	ASN
1	A	1354	GLN
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

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Mol	Chain	Res	Type
1	B	1083	GLN
1	B	1091	ASN
1	B	1103	ASN
1	B	1117	GLN
1	B	1145	ASN
1	B	1191	ASN
1	B	1223	ASN
1	B	1354	GLN
1	B	1356	HIS
1	B	1380	ASN
1	B	1381	HIS
1	B	1390	GLN
1	B	1444	GLN
1	B	1456	GLN
1	B	1457	ASN
1	B	1468	ASN
1	B	1469	ASN
1	B	1489	ASN
1	B	1523	GLN
1	B	1539	GLN
1	B	1630	GLN
1	C	1083	GLN
1	C	1091	ASN
1	C	1103	ASN
1	C	1117	GLN
1	C	1145	ASN
1	C	1191	ASN
1	C	1223	ASN
1	C	1354	GLN
1	C	1380	ASN
1	C	1381	HIS
1	C	1390	GLN
1	C	1444	GLN
1	C	1456	GLN
1	C	1457	ASN
1	C	1468	ASN
1	C	1469	ASN
1	C	1489	ASN
1	C	1518	ASN
1	C	1523	GLN
1	C	1539	GLN
1	C	1630	GLN

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Mol	Chain	Res	Type
2	D	91	GLN
2	D	149	ASN
2	D	153	ASN
2	E	149	ASN
2	E	153	ASN
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 carbohydrates 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 ⓘ

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	554/624 (88%)	0.10	51 (9%) 11 16	50, 50, 132, 133	0
1	B	554/624 (88%)	-0.24	4 (0%) 89 85	50, 50, 132, 133	0
1	C	554/624 (88%)	-0.34	13 (2%) 64 59	50, 50, 132, 133	0
2	D	79/205 (38%)	0.23	4 (5%) 32 32	298, 298, 298, 298	0
2	E	68/205 (33%)	1.51	22 (32%) 1 5	314, 314, 314, 314	0
2	F	78/205 (38%)	-0.12	1 (1%) 79 73	339, 339, 339, 339	0
All	All	1887/2487 (75%)	-0.08	95 (5%) 32 32	50, 50, 314, 339	0

All (95) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1313	HIS	7.4
1	A	1306	ALA	6.9
1	A	1312	ALA	6.9
1	A	1341	SER	6.5
1	A	1279	HIS	6.5
1	A	1280	ALA	6.0
2	E	91	GLN	5.8
1	A	1282	GLU	5.7
2	E	90	ALA	5.0
1	A	1344	ASN	5.0
2	E	139	ASN	4.9
2	E	149	ASN	4.9
1	A	1305	ALA	4.8
1	A	1250	THR	4.8
1	A	1285	GLU	4.8
1	A	1283	LEU	4.8
1	A	1311	ARG	4.7
2	E	143	SER	4.7
1	A	1343	VAL	4.6

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Mol	Chain	Res	Type	RSRZ
1	B	1630	GLN	4.5
1	A	1308	GLY	4.4
1	A	1286	LEU	4.4
1	A	1342	ARG	4.4
2	E	92	ALA	4.3
2	E	144	GLU	4.3
1	A	1340	TRP	4.3
1	A	1309	LEU	4.3
1	A	1310	GLU	4.1
1	A	1316	MET	4.1
2	E	145	GLN	4.1
2	E	140	GLN	4.0
1	A	1307	LEU	3.9
2	E	147	GLU	3.9
1	A	1277	VAL	3.9
2	E	89	ILE	3.8
2	E	142	GLN	3.7
1	C	1630	GLN	3.6
1	B	1629	THR	3.6
2	E	138	TRP	3.5
2	E	148	LYS	3.5
1	A	1302	MET	3.3
1	A	1315	GLY	3.2
1	A	1314	MET	3.2
1	A	1317	PHE	3.2
1	C	1627	THR	3.1
1	C	1629	THR	3.1
1	C	1265	GLU	3.1
1	A	1281	ASP	3.0
1	A	1229	SER	2.9
1	C	1626	ALA	2.9
2	E	93	ASP	2.9
2	E	136	GLU	2.9
1	A	1630	GLN	2.8
2	E	137	GLU	2.8
1	A	1318	THR	2.8
1	A	1345	ILE	2.8
2	E	141	ARG	2.8
1	C	1266	PHE	2.8
2	E	146	VAL	2.8
1	A	1254	LYS	2.8
1	C	1264	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	1251	ARG	2.7
1	C	1623	GLU	2.7
1	C	1624	GLU	2.7
2	F	139	ASN	2.7
1	A	1225	GLY	2.7
2	D	157	ASP	2.6
1	A	1252	THR	2.6
2	D	93	ASP	2.6
1	A	1273	GLY	2.5
1	C	1617	GLU	2.5
2	E	134	ASP	2.5
2	E	135	LEU	2.5
1	A	1249	SER	2.5
2	D	91	GLN	2.5
2	D	92	ALA	2.5
1	A	1303	LEU	2.4
1	A	1304	GLU	2.4
2	E	151	ILE	2.3
1	C	1263	GLY	2.3
1	B	1627	THR	2.3
1	A	1248	ASN	2.3
1	A	1339	PHE	2.3
1	A	1268	LEU	2.2
1	A	1228	ALA	2.2
1	C	1628	GLU	2.2
1	A	1272	CYS	2.2
1	A	1284	GLU	2.1
1	A	1627	THR	2.1
1	A	1269	ALA	2.1
1	A	1335	HIS	2.1
1	A	1544	SER	2.1
1	B	1626	ALA	2.0
1	C	1620	ARG	2.0
1	A	1266	PHE	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates 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.