



Full wwPDB EM Validation Report ⓘ

Dec 17, 2022 – 02:51 pm GMT

PDB ID : 6YAI
EMDB ID : EMD-10754
Title : Clathrin with bound beta2 appendage of AP2
Authors : Kovtun, O.; Kane Dickson, V.; Kelly, B.T.; Owen, D.; Briggs, J.A.G.
Deposited on : 2020-03-12
Resolution : 9.20 Å(reported)
Based on initial models : 1E42, 6SCT, 1XI4

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev43
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.3

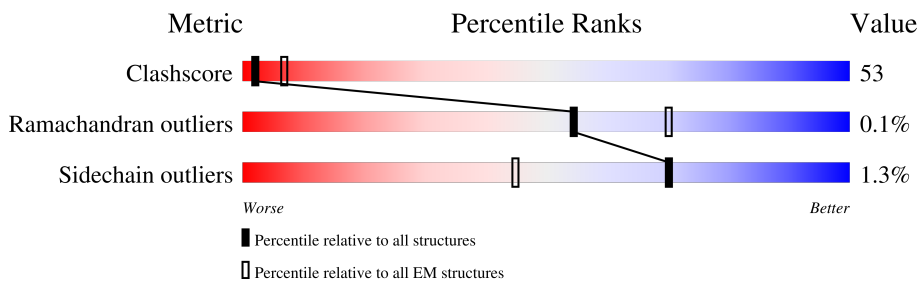
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 9.20 Å.

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





Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1630	6% 17% 77%
1	B	1630	8% 20% 71%
1	E	1630	10% 8% 36% 55%
1	H	1630	5% 10% 86%
1	J	1630	• 6% 90%
1	K	1630	5% 11% 84%
1	L	1630	10% 23% 66%
1	M	1630	9% 22% 68%

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Mol	Chain	Length	Quality of chain
2	F	233	 82% 14%
3	C	1630	 5% 24% 69%
4	D	229	 14% 31% 55%
4	I	229	 13% 13% 75%
4	N	229	 14% 21% 65%
4	O	229	 10% 16% 74%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 35282 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Clathrin heavy chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	E	726	Total 5740	C 3660	N 981	O 1066	S 33	0	0
1	M	518	Total 4213	C 2681	N 725	O 787	S 20	0	0
1	A	379	Total 3168	C 2037	N 528	O 584	S 19	0	0
1	B	468	Total 3744	C 2357	N 652	O 717	S 18	0	0
1	J	165	Total 1379	C 875	N 227	O 269	S 8	0	0
1	K	257	Total 2150	C 1377	N 358	O 404	S 11	0	0
1	L	548	Total 4458	C 2843	N 757	O 838	S 20	0	0
1	H	236	Total 1928	C 1239	N 327	O 353	S 9	0	0

- Molecule 2 is a protein called AP-2 complex subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	F	233	Total 1844	C 1189	N 307	O 337	S 11	0	0

- Molecule 3 is a protein called Clathrin heavy chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	513	Total 4133	C 2645	N 706	O 762	S 20	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	871	THR	GLU	conflict	UNP C0MHR2

- Molecule 4 is a protein called Clathrin light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	104	Total	C	N	O	S	0	0
			875	539	165	168	3		
4	O	59	Total	C	N	O		0	0
			514	312	101	101			
4	I	58	Total	C	N	O	S	0	0
			468	291	86	88	3		
4	N	80	Total	C	N	O	S	0	0
			668	412	123	130	3		

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

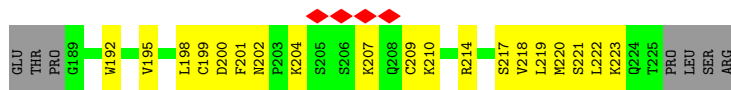
• Molecule 1: Clathrin heavy chain



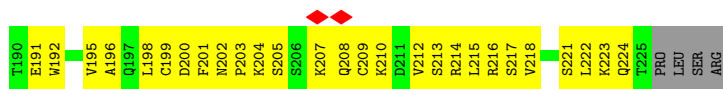
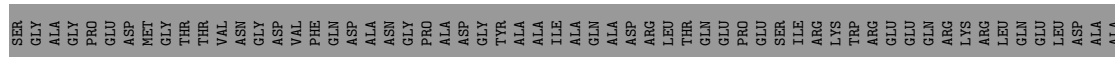
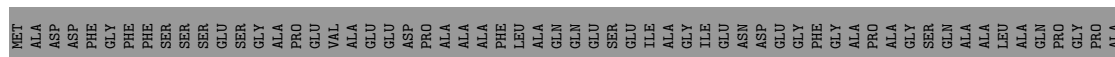
11062	V088	C926	E863	K798	1732	A669	GLU
E1063	S989	D927	A664	1802	Q733	H670	PRO
F1064	V990	R927	R865	T802	A734	Y608	LEU
E1065	T991	E929	R866	Y803	1	D909	LEU
E1066	V992	R930	H867	V804	K737	A611	TYR
E1067	K993	1931	H867	Q805	V738	A611	SER
A1068	A994	V932	C870	K806	V739	H612	VAL
F1069	F995	V933	E871	V807	Q740	I613	ASP
A1070	1	2934	E872	N808	I741	A614	ARG
I1071	L1000	N935	P873	R809	K742	Q615	LYS
F1072	P1001	E936	A874	S810	E743	L616	ASN
R1073	M1002	N937	H875	R811	V744	E618	VAL
K1074	E1003	S938	H876	L812	E745	E619	PHE
F1075	L1004	L939	H877	F813	R746	K619	ALA
ASP	I1005	F940	A878	V814	I747	L622	GLN
VAL	E1006	K941	L879	V815	C748	Q614	THR
ASN	L1007	S942	A880	R749	L623	L623	GLY
THR	L1008	K881	C817	E750	Q624	Q624	ASN
SER	E1009	S944	L882	S751	A626	I559	PRO
ALA	K1010	R945	L883	N752	V689	Q580	ALA
VAL	I1011	Y946	L884	C753	H690	I562	VAL
GLN	V1012	L947	1	D754	E691	T563	GLY
VAL	L1013	R949	1	D755	L693	F630	ALA
LEU	1	R950	N888	F756	L693	T563	VAL
TLE	S1016	K951	N889	E757	S684	L566	ALA
GLU	1	9952	P890	R758	T695	L567	ASN
HIS	S1019	D952	R892	V759	Q696	D588	ALA
ILE	E1020	F953	F893	K760	S697	A669	ALA
GLY	H1021	E954	L894	N761	L698	L570	GLN
ASN	R1022	N955	R895	F762	R638	K571	VAL
LEU	M1023	V956	S896	L763	E700	N573	GLY
ASP	L1024	G957	N897	K764	L701	N573	THR
ARG	Q1025	S958	F898	E765	F702	R574	LEU
ALA	M1026	Y959	R899	A766	S704	P575	LEU
TYR	L1027	L960	Y900	K767	8703	S576	THR
GLU	L1028	L961	D901	L768	1	E577	LEU
PHE	I1029	E962	S902	V769	1	G578	PHE
ALA	L1030	S963	R903	D770	S707	P579	THR
GLU	1	R964	V904	Q771	E708	L580	GLY
ARG	I1033	F965	V905	1	E709	L580	LEU
CYS	K1034	Y966	G906	L774	L711	Q581	VAL
ASN	1	R967	X907	L775	F712	T582	ALA
GLU	R1037	R968	C909	I776	F714	R583	GLY
PRO	T1038	V969	V846	V777	E714	L584	GLN
ALA	1	L970	A847	C778	L715	1	VAL
VAL	M1040	N971	E848	D782	1	M587	PRO
TRP	E1041	D972	R854	1	1	M588	ASP
SER	E1042	Q973	R855	D786	1	A592	GLY
GLN	Y1043	Y974	L856	L787	1	A593	LEU
LEU	I1044	Y975	R857	V788	1	Q594	THR
ALA	M1045	1	N853	L788	1	V595	ARG
LYS	R1046	1	R854	V788	1	A596	THR
ALA	L1047	1	R854	L788	1	D597	ALA
GLN	D1048	1	L855	V788	1	A598	VAL
LEU	1	1	R856	1	1	A599	GLY
GLN	D1064	1	L857	1	1	I599	THR
GLN	1	1	Y921	1	1	L600	ASN
LYS	I1068	1	L858	1	1	1	LEU
MET	Y985	1	L859	1	1	1	TYR
GLY	E986	1	R860	1	1	1	PHE
VAL	A1059	1	R861	1	1	1	GLY
1	1	1	L796	1	1	1	THR
1	1	1	L667	1	1	1	VAL
1	1	1	R668	1	1	1	GLY
1	1	1	1	1	1	1	SER
1	1	1	1	1	1	1	ASN

THR	GLY	PHE	K1441	M1379	H1313	A1240	A1176	P1105	T1038	P969	ASP	SER	PHE	PHE	GLU	GLY
GLU	ALA	ARG	V1442	M1380	M1314	V1241	L1177	A1106	R1039	L970	SER	ASP	ASP	ASP	ASP	ASP
THR	CYS	ARG	K1443	H1381	G1315	G1242	A1179	V1107	V1040	1971	GLN	GLN	GLN	GLN	GLN	GLN
GLN	LEU	ILE	P1382	P1382	M1316	G1243	K1179	M1108	M1043	D972	VAL	VAL	VAL	VAL	VAL	VAL
	PHE	ALA	L1445	T1383	F1317	A1244	N1181	S1109	Y1043	Q973	PRO	PRO	PRO	PRO	PRO	PRO
	THR	ALA	P1446	D1384	F1318	R1245	M1180	Q1110	I1044	Y974	ASP	ASP	ASP	ASP	ASP	ASP
	CYS	TYR	L1447	A1385	E1319	K1246	N1182	L1111	M1045	Y975	VAL	VAL	VAL	VAL	VAL	VAL
	TYR	LEU	V1448	M1386	I1322	A1247	L1183	A1112	R1046	Q976	VAL	VAL	VAL	VAL	VAL	VAL
	ASP	PHE	K1449	K1387	I1322	M1248	A1184	K1113	L1047	Y977	VAL	VAL	VAL	VAL	VAL	VAL
	LEU	LYS	P1450	E1388	L1323	S1249	E1185	A1114	Y1050	Q978	GLU	GLU	GLU	GLU	GLU	GLU
	LEU	GLY	F1451	G1389	Y1324	T1250	L1186	Q1115	D1051	A978	LEU	LEU	LEU	LEU	LEU	LEU
	ARG	ASN	L1452	Q1390	S1325	R1251	E1187	L1116			ARG	ARG	ARG	ARG	ARG	ARG
	PRO	ASN	R1453	F1391	K1326	T1252	F1188	G1117			ASN	ASN	ASN	ASN	ASN	ASN
	ASP	ARG	S1454	K1392	F1327	W1253	F1189	K1118			ASN	ASN	ASN	ASN	ASN	ASN
	V1455	THR	V1455	D1393	K1328	K1254	I1190	G1119			PRO	PRO	PRO	PRO	PRO	PRO
	VAL	VAL		I1394	P1329	E1254	N1195	G1119			HIS	HIS	HIS	HIS	HIS	HIS
	LEU	LEU	K1461	T1395	K1330	E1255	N1195	V1121			ALA	ALA	ALA	ALA	ALA	ALA
	GLU	GLN	S1462	T1396	K1331	K1254	I1198	W1122			ALA	ALA	ALA	ALA	ALA	ALA
	THR	VAL	V1463	K1397	R1332	F1266	F1189	E1123			VAL	VAL	VAL	VAL	VAL	VAL
	ALA	GLU	M1464	A1399	R1333	B1267	I1199	A1124			VAL	VAL	VAL	VAL	VAL	VAL
	TRP	LEU		A1399	E1334		Q1200	A1125			ALA	ALA	ALA	ALA	ALA	ALA
	ARG	CYS	M1468	M1400	H1335	G1263	I1198	Y1128			ALA	ALA	ALA	ALA	ALA	ALA
	HIS	LYS	N1469	V1401	L1336	E1265	G1202	T1129			GLY	GLY	GLY	GLY	GLY	GLY
	ASN	ASN	L1470	E1402	E1337	F1266	D1203	I1129			GLY	GLY	GLY	GLY	GLY	GLY
	ILE	ASP	F1471	L1403	L1338	R1264	R1204	K1130			GLY	GLY	GLY	GLY	GLY	GLY
	MET	SER	I1472	Y1404		C1205	C1205	A1131			CYS	CYS	CYS	CYS	CYS	CYS
	ASP	LEU	F1473	Y1405	R1342	Q1270	Y1206	S1136			D927	D927	D927	D927	D927	D927
	PHE	TYR	A1474	R1406	N1343	M1271	D1207	A1070			L928	L928	L928	L928	L928	L928
	ALA	LYS	GLU	L1407	L1344	G1279	E1208	I1071			GLY	GLY	GLY	GLY	GLY	GLY
	ASP	ASP	ASP	I1408	L1345	H1279	K1209	E1139			CYS	CYS	CYS	CYS	CYS	CYS
	PRO	ALA	TYR	Q1409	P1346	D1281	M1210	V1140			ARG	ARG	ARG	ARG	ARG	ARG
	THR	MET	GLN	F1410		D1282	Y1211	K1073			LEU	LEU	LEU	LEU	LEU	LEU
	PHE	GLN	ALA	Y1411	L1349	E1282	D1212	K1074			PRO	PRO	PRO	PRO	PRO	PRO
	ILE	LEU	LEU	L1412	R1350	L1283	A1214	F1075			VAL	VAL	VAL	VAL	VAL	VAL
	GLN	GLN	LEU	L1413	A1351	E1284	K1215	F1076			ALA	ALA	ALA	ALA	ALA	ALA
	VAL	VAL	VAL	F1414	A1352	E1285	L1215	D1076			THR	THR	THR	THR	THR	THR
	MET	SER	SER	K1415	E1353	L1286	L1216	M1149			HIS	HIS	HIS	HIS	HIS	HIS
	LYS	SER	ILE	P1416	Q1354	I1287	L1217	E1151			ASN	ASN	ASN	ASN	ASN	ASN
	GLU	LYS	ASP	L1417		M1288	Y1218	E1152			ALA	ALA	ALA	ALA	ALA	ALA
	TYR	ASP	ALA	L1418	L1357	M1288	N1219	L1153			LEU	LEU	LEU	LEU	LEU	LEU
	LEU	LEU	TYR	L1419	W1358	Y1289	M1220	V1154			LEU	LEU	LEU	LEU	LEU	LEU
	THR	THR	ASP	M1420	A1359	Q1291	V1221	K1155			VAL	VAL	VAL	VAL	VAL	VAL
	LYS	LEU	ASN	D1421	E1360	D1292	A1228	Y1156			TYR	TYR	TYR	TYR	TYR	TYR
	VAL	ALA	PHE	L1422	L1361		S1229	L1157			CYS	CYS	CYS	CYS	CYS	CYS
	ASP	GLU	ASP	L1423	V1362	Y1295	N1223	L1158			ASP	ASP	ASP	ASP	ASP	ASP
	LYS	GLU	ASN		F1363	F1296	G1225	Q1158			SER	SER	SER	SER	SER	SER
	LEU	LEU	ILE	L1426	L1364	E1297	R1226	M1159			GLU	GLU	GLU	GLU	GLU	GLU
	ASP	ASP	SER	L1429	Y1365	E1298	L1227	A1160			ASN	ASN	ASN	ASN	ASN	ASN
	ALA	ALA	LEU	R1429	D1366	L1299	A1228	R1161			VAL	VAL	VAL	VAL	VAL	VAL
	SER	SER	TRP	L1430	D1366	L1300	S1229	K1162			PRO	PRO	PRO	PRO	PRO	PRO
	GLU	GLN	PHE	D1431	E1369	T1301	T1230	A1164			GLN	GLN	GLN	GLN	GLN	GLN
	SER	ARG	ARG	H1432	E1370	M1302	L1231	R1165			ARG	ARG	ARG	ARG	ARG	ARG
	LEU	GLN	LEU	T1433	Y1371	L1303	V1232	A1095			LEU	LEU	LEU	LEU	LEU	LEU
	ARG	GLU	GLU	R1434	D1372	E1304	H1233	E1166			PHE	PHE	PHE	PHE	PHE	PHE
	LYS	GLY	LYS	A1435	M1373	A1305	E1097	S1167			LEU	LEU	LEU	LEU	LEU	LEU
	GLY	LYS	HIS	V1436	A1374	G1235	L1234	F1098			ARG	ARG	ARG	ARG	ARG	ARG
	GLU	ARG	GLU	N1437	I1375	E1236	G1235	A1098			VAL	VAL	VAL	VAL	VAL	VAL
	LEU	GLU	LEU	F1438	I1376	E1310	Y1237	E1100			ARG	ARG	ARG	ARG	ARG	ARG
	ILE	CYS	ILE	F1439	T1377	R1311	Q1238	L1101			GLY	GLY	GLY	GLY	GLY	GLY
	GLU	ALA	GLU	S1440	M1378	A1312	A1239	C1102			ASN	ASN	ASN	ASN	ASN	ASN

● Molecule 1: Clathrin heavy chain



• Molecule 4: Clathrin light chain



4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	12076	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION; CTF correction in no-vaCTF with by multiplication	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	3.2	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	6500	Depositor
Magnification	81000	Depositor
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.641	Depositor
Minimum map value	-0.445	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.056	Depositor
Recommended contour level	0.07	Depositor
Map size (Å)	284.8, 284.8, 284.8	wwPDB
Map dimensions	160, 160, 160	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.78, 1.78, 1.78	Depositor

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	0.35	0/3240	0.49	0/4375
1	B	0.32	0/3810	0.49	1/5160 (0.0%)
1	E	1.25	7/5858 (0.1%)	0.53	2/7941 (0.0%)
1	H	0.27	0/1965	0.45	0/2659
1	J	0.29	0/1405	0.43	0/1892
1	K	0.29	0/2196	0.45	0/2966
1	L	0.31	0/4547	0.47	0/6158
1	M	0.33	0/4294	0.47	0/5820
2	F	0.81	0/1886	0.99	7/2562 (0.3%)
3	C	1.34	9/4211 (0.2%)	0.98	22/5700 (0.4%)
4	D	0.30	0/887	0.44	0/1183
4	I	0.26	0/473	0.44	0/631
4	N	0.25	0/677	0.39	0/904
4	O	0.28	0/520	0.42	0/692
All	All	0.75	16/35969 (0.0%)	0.59	32/48643 (0.1%)

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	B	0	1
3	C	0	9
All	All	0	10

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	83	LYS	CD-CE	75.02	3.38	1.51
3	C	364	PHE	CE2-CZ	35.66	2.05	1.37
3	C	364	PHE	CE1-CZ	35.12	2.04	1.37
3	C	364	PHE	CD2-CE2	32.77	2.04	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	111	TRP	CE3-CZ3	32.02	1.92	1.38
3	C	364	PHE	CD1-CE1	32.00	2.03	1.39
3	C	364	PHE	CG-CD1	22.67	1.72	1.38
3	C	364	PHE	CG-CD2	22.35	1.72	1.38
1	E	111	TRP	CZ3-CH2	21.44	1.74	1.40
1	E	111	TRP	CE2-CZ2	18.59	1.71	1.39
1	E	111	TRP	CD2-CE2	16.42	1.61	1.41
1	E	111	TRP	CD2-CE3	11.36	1.57	1.40
1	E	111	TRP	CZ2-CH2	11.00	1.58	1.37
3	C	650	TRP	CB-CG	-7.73	1.36	1.50
3	C	654	TYR	CD2-CE2	-5.74	1.30	1.39
3	C	678	ASN	CA-C	-5.33	1.39	1.52

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	536	LEU	CB-CG-CD1	-11.20	91.96	111.00
3	C	457	LEU	CB-CG-CD1	-9.96	94.07	111.00
3	C	713	TYR	CA-CB-CG	-9.38	95.58	113.40
3	C	364	PHE	CB-CG-CD2	-8.90	114.57	120.80
3	C	698	LEU	CA-CB-CG	8.21	134.19	115.30
3	C	476	LEU	CA-CB-CG	8.18	134.10	115.30
3	C	701	LEU	CA-CB-CG	-7.56	97.92	115.30
2	F	752	ASP	CB-CG-OD2	7.33	124.90	118.30
2	F	783	ASP	CB-CG-OD2	7.29	124.86	118.30
3	C	580	LEU	CA-CB-CG	-7.05	99.08	115.30
1	E	83	LYS	CD-CE-NZ	7.00	127.81	111.70
3	C	558	LEU	CA-CB-CG	6.77	130.86	115.30
2	F	862	ASP	CB-CG-OD1	6.68	124.32	118.30
1	B	812	LEU	CA-CB-CG	-6.62	100.08	115.30
3	C	678	ASN	O-C-N	-6.60	112.14	122.70
3	C	623	LEU	CA-CB-CG	-6.51	100.33	115.30
3	C	678	ASN	CA-C-N	6.36	131.19	117.20
1	E	83	LYS	CG-CD-CE	6.35	130.96	111.90
2	F	891	LEU	CA-CB-CG	6.24	129.66	115.30
3	C	627	LEU	CA-CB-CG	-5.92	101.69	115.30
3	C	654	TYR	CA-CB-CG	-5.86	102.27	113.40
3	C	820	LEU	CA-CB-CG	-5.79	101.97	115.30
3	C	599	ILE	CG1-CB-CG2	-5.72	98.81	111.40
3	C	638	ARG	CG-CD-NE	5.66	123.69	111.80
3	C	589	LEU	CA-CB-CG	5.58	128.14	115.30
3	C	645	LEU	CA-CB-CG	5.49	127.92	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	770	LEU	CB-CG-CD2	-5.31	101.97	111.00
3	C	791	LEU	CA-CB-CG	-5.19	103.36	115.30
2	F	812	ASP	CB-CG-OD1	5.14	122.93	118.30
3	C	535	MET	CB-CG-SD	5.13	127.80	112.40
3	C	535	MET	CA-CB-CG	-5.09	104.65	113.30
2	F	829	ASP	CB-CG-OD2	5.03	122.83	118.30

There are no chirality outliers.

All (10) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	811	ARG	Peptide
3	C	364	PHE	Sidechain
3	C	531	GLN	Peptide
3	C	571	LYS	Peptide
3	C	622	LEU	Peptide
3	C	647	ASN	Peptide
3	C	709	GLU	Peptide
3	C	723	GLN	Peptide
3	C	754	TYR	Peptide
3	C	855	LEU	Peptide

5.2 Too-close contacts [i](#)

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	3168	0	3118	333	0
1	B	3744	0	3703	342	0
1	E	5740	0	5756	802	0
1	H	1928	0	1947	148	0
1	J	1379	0	1333	106	0
1	K	2150	0	2117	174	0
1	L	4458	0	4413	375	0
1	M	4213	0	4209	435	0
2	F	1844	0	1849	73	0
3	C	4133	0	4168	852	0
4	D	875	0	872	88	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	I	468	0	474	33	0
4	N	668	0	657	56	0
4	O	514	0	508	40	0
All	All	35282	0	35124	3741	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 53.

All (3741) 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:E:111:TRP:CE3	1:E:111:TRP:CZ3	1.92	1.56
3:C:742:LYS:HE2	1:H:641:VAL:CG1	1.30	1.54
3:C:364:PHE:CD1	3:C:364:PHE:CE1	2.03	1.47
3:C:742:LYS:CE	1:H:641:VAL:HG11	1.45	1.47
3:C:364:PHE:CE1	3:C:364:PHE:CZ	2.04	1.46
3:C:364:PHE:CE2	3:C:364:PHE:CD2	2.04	1.46
3:C:364:PHE:CZ	3:C:364:PHE:CE2	2.05	1.45
2:F:717:ALA:O	1:M:721:PHE:CZ	1.69	1.45
2:F:746:ALA:CB	1:M:721:PHE:HB2	1.50	1.39
1:E:83:LYS:CE	1:E:111:TRP:CE2	2.32	1.13
2:F:717:ALA:O	1:M:721:PHE:HZ	0.77	1.10
1:E:83:LYS:CD	1:E:111:TRP:CE3	2.35	1.09
1:E:83:LYS:CD	1:E:111:TRP:CD2	2.36	1.09
1:E:83:LYS:CE	1:E:111:TRP:CD2	2.36	1.08
1:E:83:LYS:CE	1:E:111:TRP:CE3	2.36	1.07
1:E:83:LYS:CD	1:E:111:TRP:CZ3	2.38	1.07
1:E:83:LYS:CD	1:E:111:TRP:CE2	2.38	1.06
1:E:83:LYS:CE	1:E:111:TRP:CZ3	2.38	1.05
2:F:746:ALA:CB	1:M:721:PHE:CB	2.34	1.05
2:F:746:ALA:HB2	1:M:721:PHE:CB	1.86	1.03
1:E:83:LYS:CE	1:E:111:TRP:CZ2	2.41	1.03
1:E:490:GLN:HB2	1:E:513:ASP:HB3	1.32	1.02
1:K:1601:GLN:HB2	4:N:214:ARG:HE	1.19	1.02
2:F:721:LYS:O	1:M:721:PHE:CG	1.74	1.00
3:C:510:TYR:HB2	3:C:512:PRO:HD2	1.44	1.00
1:E:83:LYS:CE	1:E:111:TRP:CH2	2.45	1.00
2:F:746:ALA:HB2	1:M:721:PHE:HB2	1.00	0.99
2:F:718:VAL:HG12	1:M:723:GLN:HG3	1.44	0.98
3:C:626:ALA:O	3:C:629:HIS:ND1	1.96	0.98
2:F:746:ALA:HA	1:M:721:PHE:HA	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:553:PHE:HD1	3:C:558:LEU:HB3	1.24	0.97
2:F:747:LEU:H	1:M:721:PHE:H	1.03	0.97
3:C:393:ARG:HA	3:C:398:ILE:HB	1.46	0.97
1:E:83:LYS:CD	1:E:111:TRP:CH2	2.48	0.97
1:L:1092:LEU:O	1:L:1096:TYR:HB3	1.64	0.97
2:F:747:LEU:HB2	1:M:720:ASN:HA	1.47	0.96
1:L:1084:VAL:O	1:L:1088:HIS:HB2	1.64	0.96
2:F:746:ALA:HB1	1:M:721:PHE:HB2	1.45	0.96
3:C:768:LEU:HG	3:C:771:GLN:HE21	1.30	0.95
3:C:566:LEU:HB3	3:C:580:LEU:HD21	1.46	0.95
1:B:1092:LEU:O	1:B:1096:TYR:HB3	1.65	0.95
1:E:83:LYS:CD	1:E:111:TRP:CZ2	2.50	0.95
3:C:505:ALA:HB3	3:C:536:LEU:HD11	1.48	0.94
3:C:436:CYS:HB2	3:C:457:LEU:HD11	1.49	0.94
1:E:480:LEU:HA	1:E:484:VAL:HG22	1.50	0.93
1:E:281:TYR:HA	1:E:297:ARG:HA	1.50	0.93
3:C:467:VAL:O	3:C:471:ASP:N	2.02	0.93
3:C:360:ALA:HB1	3:C:363:LEU:HB2	1.52	0.92
3:C:749:ARG:O	3:C:780:ARG:NH2	2.01	0.92
3:C:538:GLN:OE1	3:C:572:ASN:ND2	2.03	0.91
3:C:638:ARG:HD2	3:C:638:ARG:N	1.82	0.91
2:F:747:LEU:N	1:M:721:PHE:H	1.69	0.91
2:F:717:ALA:C	1:M:721:PHE:HZ	1.72	0.90
3:C:761:ASN:HA	3:C:764:LYS:HD2	1.51	0.90
3:C:502:VAL:O	3:C:506:LYS:HB2	1.72	0.90
3:C:531:GLN:HB2	3:C:565:PHE:HE2	1.36	0.90
3:C:742:LYS:HE2	1:H:641:VAL:HG12	1.51	0.90
3:C:706:LYS:O	3:C:737:LYS:NZ	2.03	0.90
3:C:553:PHE:CD1	3:C:558:LEU:HB3	2.06	0.89
3:C:749:ARG:HA	3:C:780:ARG:HH12	1.37	0.89
3:C:773:PRO:HA	3:C:776:ILE:HD12	1.53	0.89
3:C:566:LEU:HD13	3:C:580:LEU:HD11	1.54	0.88
1:L:1145:ASN:HA	1:L:1150:TRP:HE1	1.36	0.88
2:F:721:LYS:O	1:M:721:PHE:CB	2.21	0.88
3:C:665:GLU:HA	3:C:668:ARG:HD3	1.54	0.88
1:J:1550:ALA:O	1:J:1554:LEU:HB2	1.73	0.88
1:K:1470:LEU:O	1:K:1474:GLU:HB2	1.73	0.88
2:F:747:LEU:HD12	1:M:719:VAL:HB	1.54	0.88
3:C:686:ALA:O	3:C:690:HIS:HB3	1.72	0.88
3:C:742:LYS:HG3	1:H:641:VAL:HG21	1.55	0.88
1:K:1499:LEU:HB2	1:K:1511:ALA:HB2	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:791:LEU:HA	3:C:794:ASN:HD21	1.36	0.87
1:E:352:ALA:O	1:E:356:ASN:N	2.07	0.87
3:C:752:ASN:OD1	3:C:780:ARG:NH2	2.07	0.87
3:C:599:ILE:HG22	3:C:604:MET:HB2	1.56	0.87
2:F:747:LEU:H	1:M:721:PHE:N	1.73	0.86
3:C:476:LEU:HD23	3:C:489:ILE:HG12	1.58	0.86
1:K:1604:LYS:HZ1	4:N:213:SER:H	1.21	0.86
1:E:83:LYS:HD3	1:E:111:TRP:CE3	2.08	0.86
1:E:491:CYS:O	1:E:520:ASN:ND2	2.08	0.86
3:C:550:VAL:HG21	3:C:587:MET:HG3	1.57	0.86
3:C:755:ASP:OD1	3:C:758:ARG:N	2.08	0.85
3:C:830:LYS:HE3	3:C:857:LEU:HB3	1.55	0.85
3:C:724:ASP:O	3:C:728:HIS:ND1	2.09	0.85
1:E:112:LYS:NZ	1:E:155:ASN:OD1	2.10	0.85
3:C:473:THR:HA	3:C:476:LEU:HD12	1.56	0.85
3:C:638:ARG:HD2	3:C:638:ARG:H	1.40	0.85
3:C:757:GLU:HA	3:C:760:LYS:HG2	1.57	0.85
1:A:1558:LEU:HA	1:A:1563:ARG:HE	1.42	0.84
1:E:155:ASN:HD21	1:E:157:ARG:HD3	1.42	0.84
1:A:1312:ALA:HB1	1:A:1316:MET:HG3	1.59	0.84
1:K:1528:CYS:HB3	1:K:1537:ALA:HA	1.60	0.84
2:F:718:VAL:HA	1:M:723:GLN:NE2	1.93	0.84
3:C:570:LEU:O	3:C:603:GLN:NE2	2.09	0.84
1:E:83:LYS:HE2	1:E:111:TRP:CZ2	2.10	0.84
3:C:556:TYR:HB3	3:C:558:LEU:HD13	1.58	0.84
1:E:83:LYS:HE3	1:E:111:TRP:CZ3	2.12	0.83
1:E:79:VAL:HA	1:E:92:ASN:HA	1.60	0.83
1:M:849:VAL:HG11	1:M:855:LEU:HB3	1.59	0.83
1:E:83:LYS:HD2	1:E:111:TRP:CZ3	2.12	0.83
1:B:852:ARG:HB3	1:B:854:ARG:HD2	1.61	0.83
1:E:108:VAL:HG11	1:E:111:TRP:HB3	1.61	0.83
1:L:1295:TYR:HB3	1:L:1298:GLU:HB2	1.61	0.83
3:C:614:ALA:HA	3:C:629:HIS:HB2	1.61	0.82
3:C:696:GLN:N	3:C:696:GLN:OE1	2.11	0.82
3:C:528:GLN:NE2	3:C:557:ASN:O	2.12	0.82
3:C:440:LEU:HD13	3:C:448:LEU:HD23	1.59	0.82
1:B:908:TYR:O	1:B:912:ARG:NH1	2.12	0.82
1:E:157:ARG:HB2	1:E:166:LEU:HB3	1.59	0.82
1:E:196:GLY:HA2	1:E:220:VAL:HB	1.60	0.82
3:C:804:VAL:HG22	3:C:812:LEU:HD22	1.61	0.82
1:E:207:GLU:HB2	1:E:354:ARG:HE	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:521:VAL:HG22	3:C:524:ILE:HD12	1.60	0.82
1:E:184:TYR:HA	1:E:191:SER:HA	1.60	0.82
1:E:502:VAL:HG22	1:E:506:LYS:HE2	1.59	0.82
1:L:1105:PRO:HA	1:L:1108:TRP:HD1	1.45	0.82
1:E:490:GLN:HE21	1:E:504:TYR:HB3	1.44	0.82
1:E:202:ALA:O	1:E:215:LEU:N	2.11	0.81
3:C:468:LYS:HG2	3:C:475:ALA:CB	2.09	0.81
3:C:502:VAL:HA	3:C:536:LEU:HD12	1.62	0.81
3:C:670:MET:SD	3:C:678:ASN:HB3	2.20	0.81
3:C:742:LYS:CE	1:H:641:VAL:CG1	2.26	0.81
3:C:623:LEU:HA	3:C:626:ALA:HB3	1.63	0.81
1:J:1584:GLU:HG2	1:J:1588:ARG:HH21	1.45	0.81
1:E:371:LEU:HB2	1:E:380:ALA:HB2	1.61	0.81
1:E:587:MET:SD	1:E:591:HIS:NE2	2.53	0.81
3:C:461:GLU:HA	3:C:479:TYR:HE1	1.45	0.81
3:C:463:LEU:HD23	3:C:464:GLY:H	1.45	0.81
3:C:581:GLN:HB3	3:C:608:TYR:HB2	1.62	0.81
3:C:762:PHE:O	3:C:766:ALA:N	2.12	0.81
3:C:680:GLN:OE1	3:C:680:GLN:N	2.12	0.81
1:H:837:ARG:HD3	1:H:840:PHE:HB3	1.63	0.81
1:E:232:GLU:HB3	1:E:243:PHE:HB3	1.63	0.80
1:A:1352:ALA:O	1:A:1356:HIS:N	2.13	0.80
1:E:40:ILE:O	1:E:51:VAL:N	2.13	0.80
3:C:629:HIS:O	3:C:633:LEU:N	2.13	0.80
1:M:849:VAL:O	1:M:853:ASN:N	2.13	0.80
1:B:1250:THR:HA	1:B:1253:TRP:HD1	1.45	0.80
1:H:774:LEU:HD13	1:H:787:LEU:HD11	1.64	0.80
1:E:515:ILE:HG12	1:E:548:GLN:HE22	1.46	0.80
1:L:1199:GLN:HE21	1:L:1223:ASN:HD21	1.29	0.80
1:L:1434:ARG:NH1	1:L:1434:ARG:O	2.15	0.80
1:E:128:TYR:HB3	1:E:140:LYS:HG2	1.64	0.80
3:C:641:VAL:HA	3:C:644:HIS:NE2	1.97	0.80
1:A:1358:TRP:HA	1:A:1361:LEU:HD12	1.63	0.80
3:C:764:LYS:O	3:C:767:LYS:NZ	2.13	0.80
1:M:597:ASP:HB2	1:M:625:ARG:HH21	1.47	0.80
3:C:514:TRP:CD1	3:C:543:LEU:HG	2.17	0.79
3:C:521:VAL:HA	3:C:524:ILE:HB	1.64	0.79
3:C:578:GLY:O	3:C:582:THR:N	2.14	0.79
3:C:476:LEU:HA	3:C:489:ILE:HG13	1.63	0.79
1:K:1609:LYS:HA	1:K:1612:LYS:HE3	1.65	0.79
3:C:533:ALA:O	3:C:537:VAL:N	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:657:SER:O	1:E:690:HIS:NE2	2.14	0.79
3:C:805:GLN:HG2	3:C:806:LYS:HG3	1.63	0.79
1:A:1497:GLN:O	1:A:1501:LYS:NZ	2.16	0.79
3:C:786:ASP:N	3:C:786:ASP:OD1	2.15	0.79
1:E:145:HIS:HB2	1:E:182:GLN:HG3	1.63	0.79
1:E:168:THR:HG23	1:E:181:MET:HG2	1.65	0.79
1:M:791:LEU:HD13	1:M:796:LEU:HD21	1.64	0.79
1:E:676:ARG:HE	1:E:705:PHE:HA	1.45	0.79
1:E:157:ARG:N	1:E:166:LEU:O	2.14	0.78
2:F:746:ALA:HB1	1:M:721:PHE:N	1.98	0.78
3:C:553:PHE:O	3:C:558:LEU:N	2.16	0.78
1:E:126:ALA:HA	1:E:143:ASP:HA	1.66	0.78
3:C:817:GLY:O	3:C:852:ARG:NH2	2.16	0.78
3:C:519:ARG:HG2	3:C:523:ARG:HH12	1.47	0.78
1:M:671:LEU:HA	1:M:674:ASN:HB2	1.63	0.78
3:C:837:ARG:NH1	3:C:839:GLN:O	2.17	0.78
3:C:490:GLN:HB3	3:C:513:ASP:HB2	1.65	0.78
1:A:1251:ARG:HH11	1:A:1254:LYS:HE2	1.48	0.78
1:A:1505:ILE:HA	1:A:1508:ARG:HB2	1.65	0.78
3:C:461:GLU:O	3:C:479:TYR:OH	2.01	0.78
3:C:820:LEU:HD23	3:C:852:ARG:HB3	1.66	0.78
1:M:600:LEU:HA	1:M:604:MET:HB3	1.65	0.78
3:C:487:LYS:O	3:C:491:CYS:HB2	1.83	0.78
1:E:614:ALA:HB3	1:E:638:ARG:HH11	1.49	0.78
2:F:717:ALA:HB1	1:M:721:PHE:HE1	1.48	0.78
3:C:498:VAL:HG11	3:C:535:MET:HE3	1.66	0.78
3:C:696:GLN:O	3:C:700:GLU:HG2	1.84	0.78
1:A:1556:TRP:HA	1:A:1559:GLN:HG2	1.66	0.77
1:B:1211:TYR:HB3	1:B:1234:LEU:HG	1.66	0.77
1:L:1250:THR:OG1	1:L:1251:ARG:NH1	2.16	0.77
1:E:600:LEU:HD21	1:E:629:HIS:HA	1.64	0.77
3:C:630:PHE:O	3:C:634:TYR:N	2.17	0.77
3:C:674:ASN:OD1	3:C:674:ASN:N	2.17	0.77
1:M:805:GLN:HG3	1:M:806:LYS:HG3	1.67	0.77
1:L:993:LYS:O	1:L:997:THR:N	2.17	0.77
1:E:466:LEU:O	1:E:469:SER:OG	2.02	0.77
3:C:531:GLN:HB2	3:C:565:PHE:CE2	2.20	0.77
3:C:623:LEU:HD13	3:C:646:LEU:HD22	1.65	0.77
1:A:1532:SER:HB2	1:A:1536:ASP:HB2	1.66	0.77
1:E:611:ALA:O	1:E:638:ARG:NH1	2.18	0.77
1:M:918:CYS:SG	1:M:919:VAL:N	2.58	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1296:PHE:HA	1:L:1299:LEU:HD12	1.63	0.77
1:A:1471:PHE:O	1:A:1475:GLU:N	2.16	0.77
1:L:1396:THR:O	1:L:1429:ARG:NH1	2.18	0.77
3:C:548:GLN:HE21	3:C:552:VAL:HG23	1.48	0.77
1:L:1282:GLU:O	1:L:1285:GLU:N	2.18	0.77
3:C:560:GLN:OE1	3:C:561:GLN:NE2	2.18	0.77
3:C:854:ARG:HG3	3:C:856:LYS:HZ3	1.49	0.77
1:K:1550:ALA:O	1:K:1554:LEU:HB2	1.85	0.77
1:E:31:THR:HB	1:E:39:CYS:HB3	1.65	0.76
3:C:465:ASP:HA	3:C:468:LYS:HG3	1.65	0.76
3:C:492:PHE:HA	3:C:520:ASN:OD1	1.85	0.76
3:C:840:PHE:HE2	3:C:845:LEU:HB2	1.49	0.76
1:B:976:GLN:OE1	1:B:976:GLN:N	2.19	0.76
1:E:411:THR:O	1:E:416:GLN:NE2	2.17	0.76
1:B:927:ASP:HA	1:B:930:LEU:HD12	1.67	0.76
1:E:674:ASN:HB3	1:E:678:ASN:HB2	1.67	0.76
3:C:532:PHE:O	3:C:536:LEU:HB2	1.84	0.76
1:M:664:LEU:O	1:M:668:ARG:NH1	2.19	0.76
1:M:1023:ASN:H	1:M:1026:ASN:HD21	1.33	0.76
1:E:360:ALA:O	1:E:364:PHE:N	2.17	0.76
1:K:1517:GLY:O	1:L:1101:ARG:NH2	2.18	0.76
1:L:1218:TYR:HB3	1:L:1223:ASN:HB2	1.68	0.76
1:L:1284:GLU:HA	1:L:1287:ILE:HD12	1.66	0.76
1:E:110:PHE:O	1:E:122:VAL:N	2.19	0.76
1:E:674:ASN:O	1:E:678:ASN:N	2.15	0.76
1:B:886:SER:OG	1:B:888:ASN:ND2	2.18	0.76
3:C:852:ARG:O	3:C:854:ARG:NH1	2.17	0.76
1:A:1295:TYR:HB3	1:A:1298:GLU:HB2	1.67	0.76
3:C:467:VAL:HG23	3:C:475:ALA:HB2	1.68	0.76
3:C:603:GLN:HE21	3:C:607:HIS:CE1	2.03	0.76
3:C:756:PRO:HA	3:C:759:VAL:HB	1.66	0.76
1:B:1198:ILE:HG13	1:B:1202:GLY:HA3	1.66	0.76
1:L:1370:GLU:HG3	1:L:1373:ASN:HB2	1.68	0.76
1:E:263:ALA:HB3	1:E:276:ILE:HB	1.68	0.76
3:C:674:ASN:O	3:C:676:ARG:NH1	2.19	0.75
1:M:1059:ALA:HA	1:M:1062:ASN:HB2	1.68	0.75
1:A:1248:ASN:OD1	1:B:853:ASN:ND2	2.19	0.75
1:A:1528:CYS:O	1:A:1532:SER:N	2.18	0.75
1:L:1411:TYR:O	1:L:1415:LYS:N	2.19	0.75
1:H:810:SER:HB3	1:H:839:GLN:HG3	1.68	0.75
3:C:497:GLN:OE1	3:C:500:LYS:NZ	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:493:ALA:HB2	1:E:501:ILE:HG12	1.67	0.75
1:L:1177:LEU:HD13	1:L:1186:LEU:HD13	1.66	0.75
1:E:199:ALA:HA	1:E:218:PHE:HA	1.67	0.75
1:E:562:CYS:SG	1:E:563:THR:N	2.59	0.75
3:C:726:ASP:OD1	3:C:758:ARG:NH1	2.19	0.75
1:M:852:ARG:O	1:M:854:ARG:NH1	2.20	0.75
3:C:514:TRP:HE1	3:C:549:ILE:HG12	1.52	0.75
4:D:111:ARG:HA	4:D:114:LEU:HD12	1.68	0.75
3:C:798:LYS:O	3:C:802:ILE:N	2.17	0.75
2:F:746:ALA:HA	1:M:721:PHE:CA	2.16	0.75
3:C:502:VAL:O	3:C:506:LYS:CB	2.35	0.75
1:M:1039:ARG:O	1:M:1046:ARG:NH2	2.19	0.75
1:L:1270:GLN:NE2	1:L:1302:MET:O	2.20	0.75
3:C:600:LEU:HD12	3:C:605:PHE:HB2	1.69	0.74
3:C:735:ALA:HB1	3:C:744:VAL:HG22	1.68	0.74
4:D:146:GLN:HE21	4:D:150:ASN:HD22	1.35	0.74
1:E:128:TYR:HD2	1:E:138:PRO:HB2	1.52	0.74
1:E:656:GLY:O	1:E:660:VAL:N	2.17	0.74
3:C:506:LYS:NZ	3:C:536:LEU:O	2.20	0.74
3:C:831:ASN:O	3:C:835:VAL:N	2.15	0.74
2:F:747:LEU:CB	1:M:720:ASN:HA	2.17	0.74
3:C:468:LYS:HB3	3:C:492:PHE:HB2	1.68	0.74
1:M:741:ILE:HD12	1:M:744:VAL:HB	1.69	0.74
1:A:1505:ILE:O	1:A:1509:ARG:N	2.20	0.74
1:B:881:LYS:HA	1:B:884:ILE:HD12	1.69	0.74
3:C:554:MET:HA	3:C:559:ILE:HG13	1.68	0.74
1:E:317:GLY:O	1:E:325:LEU:N	2.21	0.74
3:C:465:ASP:N	3:C:479:TYR:OH	2.21	0.74
3:C:827:ASP:O	3:C:831:ASN:ND2	2.20	0.74
1:B:812:LEU:HA	1:B:815:VAL:HG22	1.68	0.74
1:L:1020:GLU:HG3	1:L:1022:ARG:H	1.53	0.74
1:E:52:ILE:N	1:E:62:ILE:O	2.19	0.74
1:E:171:SER:O	1:E:178:VAL:N	2.19	0.74
3:C:457:LEU:HD23	3:C:458:GLU:H	1.53	0.74
1:A:1322:ILE:O	1:A:1325:SER:OG	2.06	0.74
1:A:1393:ASP:O	1:A:1397:LYS:NZ	2.20	0.74
1:L:1314:MET:HB2	1:L:1343:VAL:HG22	1.70	0.74
1:A:1396:THR:OG1	1:A:1397:LYS:NZ	2.21	0.74
4:O:113:ARG:NH2	4:O:116:GLU:OE1	2.20	0.74
1:L:1380:ASN:OD1	1:L:1381:HIS:ND1	2.20	0.74
3:C:429:LYS:HD3	3:C:458:GLU:HG3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:678:ASN:HA	3:C:681:ILE:HB	1.70	0.74
1:E:18:LEU:O	1:E:63:ARG:NH2	2.21	0.74
3:C:790:TYR:O	3:C:794:ASN:ND2	2.21	0.74
1:B:1001:PRO:HD2	1:B:1004:LEU:HD13	1.67	0.74
1:E:21:ASN:HB3	1:E:24:ASN:HB2	1.69	0.73
1:E:684:GLN:O	1:E:687:SER:OG	2.04	0.73
3:C:849:VAL:O	3:C:853:ASN:N	2.22	0.73
1:B:1103:ASN:HA	1:B:1108:TRP:HZ2	1.53	0.73
1:M:925:GLN:HB3	1:M:950:ARG:HH22	1.53	0.73
1:L:1244:ALA:O	1:L:1248:ASN:ND2	2.22	0.73
1:E:577:GLU:HB2	1:E:580:LEU:HG	1.70	0.73
3:C:597:ASP:H	3:C:625:ARG:HH21	1.36	0.73
4:O:139:TRP:HH2	1:L:1446:PRO:HB2	1.54	0.73
1:A:1533:LEU:O	1:A:1562:LYS:NZ	2.20	0.73
1:E:84:ALA:HB3	1:E:87:THR:HB	1.68	0.73
1:K:1496:ALA:HB2	1:K:1514:LEU:HD11	1.68	0.73
1:E:52:ILE:O	1:E:62:ILE:N	2.20	0.73
1:E:209:ASN:ND2	1:E:241:GLN:O	2.21	0.73
1:E:476:LEU:HB3	1:E:500:LYS:HD2	1.70	0.73
1:M:881:LYS:HA	1:M:884:ILE:HD12	1.70	0.73
2:F:898:TRP:C	2:F:899:ILE:HD12	2.08	0.73
3:C:708:PHE:CE2	3:C:709:GLU:HB3	2.24	0.73
1:B:1139:GLU:OE1	1:B:1139:GLU:N	2.19	0.73
3:C:641:VAL:HA	3:C:644:HIS:CD2	2.24	0.73
3:C:493:ALA:O	3:C:517:LEU:HD12	1.87	0.73
3:C:784:VAL:HA	3:C:787:LEU:HB3	1.71	0.73
1:B:922:GLU:O	1:B:925:GLN:NE2	2.21	0.73
1:L:1332:MET:O	1:L:1336:LEU:HB3	1.88	0.73
1:E:206:MET:HB2	1:E:209:ASN:HD22	1.54	0.72
1:E:83:LYS:NZ	1:E:111:TRP:O	2.22	0.72
1:M:1023:ASN:HA	1:M:1027:LEU:HD23	1.71	0.72
1:E:83:LYS:HG3	1:E:88:LEU:HD13	1.70	0.72
3:C:586:GLU:O	3:C:589:LEU:HG	1.89	0.72
1:A:1399:ALA:O	1:A:1429:ARG:NH2	2.22	0.72
3:C:461:GLU:HA	3:C:479:TYR:CE1	2.23	0.72
1:M:803:TYR:OH	1:M:811:ARG:NH1	2.21	0.72
3:C:866:ILE:HA	3:C:870:CYS:HB3	1.70	0.72
1:L:1382:PRO:O	1:L:1386:TRP:N	2.22	0.72
1:E:265:GLN:O	1:E:274:PHE:N	2.21	0.72
3:C:426:GLN:NE2	3:C:427:LEU:O	2.23	0.72
3:C:468:LYS:HD2	3:C:479:TYR:HE2	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:668:ARG:HB2	3:C:668:ARG:NH2	2.05	0.72
1:K:1556:TRP:HA	1:K:1559:GLN:HG2	1.72	0.72
1:L:1416:PRO:HA	1:L:1419:LEU:HB2	1.70	0.72
1:E:400:ARG:O	1:E:403:SER:OG	2.07	0.72
1:E:510:TYR:HB2	1:E:513:ASP:HB2	1.71	0.72
3:C:690:HIS:HB2	3:C:698:LEU:HD11	1.70	0.72
3:C:707:SER:OG	3:C:737:LYS:NZ	2.23	0.72
2:F:854:ILE:HG23	2:F:912:TYR:HB2	1.72	0.72
1:A:1601:GLN:HA	1:A:1604:LYS:HE2	1.70	0.72
1:B:871:GLU:HA	1:B:876:HIS:HE2	1.53	0.72
1:L:1285:GLU:N	1:L:1285:GLU:OE1	2.23	0.72
2:F:860:ASN:HB2	2:F:862:ASP:OD1	1.89	0.72
3:C:576:SER:OG	3:C:607:HIS:ND1	2.18	0.72
1:M:1030:LEU:HA	1:M:1033:ILE:HD12	1.72	0.72
1:E:221:ARG:NH1	1:E:259:ASP:O	2.22	0.72
1:E:539:ASP:O	1:E:574:ARG:NH1	2.23	0.72
1:J:1492:ASN:HB3	1:J:1514:LEU:HD13	1.72	0.72
1:L:1037:ARG:HD2	1:L:1039:ARG:HH21	1.55	0.72
1:L:1265:GLU:OE2	1:L:1267:ARG:NH2	2.23	0.72
1:E:83:LYS:HD3	1:E:111:TRP:CD2	2.22	0.71
1:E:637:LYS:NZ	1:E:662:ASP:OD2	2.23	0.71
1:B:956:TRP:O	1:B:960:LEU:N	2.19	0.71
1:K:1398:VAL:O	1:K:1429:ARG:NH2	2.23	0.71
1:L:1065:PHE:O	1:L:1069:PHE:N	2.23	0.71
1:L:1471:PHE:HA	1:L:1474:GLU:HB2	1.72	0.71
1:H:791:LEU:HB3	1:H:796:LEU:HG	1.71	0.71
1:E:502:VAL:HG21	1:E:539:ASP:HB2	1.70	0.71
1:M:841:SER:OG	1:M:843:ASP:OD1	2.08	0.71
1:K:1562:LYS:NZ	4:N:199:CYS:SG	2.63	0.71
1:E:363:LEU:HA	1:E:366:ARG:HD2	1.73	0.71
3:C:742:LYS:CD	1:H:641:VAL:HG11	2.20	0.71
1:M:687:SER:HA	1:M:690:HIS:CD2	2.24	0.71
1:M:908:TYR:O	1:M:912:ARG:NH1	2.22	0.71
1:A:1360:GLU:OE1	1:A:1360:GLU:N	2.20	0.71
1:J:1588:ARG:HH22	4:N:221:SER:HB2	1.54	0.71
1:E:476:LEU:O	1:E:500:LYS:NZ	2.20	0.71
2:F:747:LEU:HB2	1:M:720:ASN:CA	2.20	0.71
3:C:489:ILE:HG23	3:C:490:GLN:HG3	1.71	0.71
1:M:676:ARG:HG3	1:M:679:LEU:HD22	1.72	0.71
1:E:44:VAL:HG22	1:E:49:GLN:HG3	1.72	0.71
3:C:539:ASP:OD1	3:C:572:ASN:ND2	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:837:ARG:NH1	1:M:838:GLY:O	2.23	0.71
1:A:1400:ASN:ND2	1:A:1402:GLU:OE2	2.23	0.71
1:L:1446:PRO:HA	1:L:1449:LYS:HE2	1.72	0.71
1:M:563:THR:HG23	1:M:584:LEU:HD22	1.73	0.71
1:L:1161:ARG:O	1:L:1165:ARG:NH2	2.22	0.71
1:L:1170:GLU:OE1	1:L:1170:GLU:N	2.22	0.71
1:E:484:VAL:HG13	1:E:500:LYS:HE2	1.73	0.71
1:E:453:LYS:HG2	1:E:481:ARG:HH22	1.54	0.71
3:C:519:ARG:HG2	3:C:523:ARG:HH22	1.55	0.71
1:M:872:GLU:HB2	1:M:875:THR:HG22	1.71	0.71
1:B:1158:GLN:O	1:B:1162:LYS:NZ	2.24	0.71
1:E:307:ALA:N	1:E:316:ILE:O	2.23	0.71
1:M:642:HIS:HA	1:M:645:LEU:HD13	1.73	0.71
1:M:1042:GLU:HA	1:M:1045:ASN:HD21	1.56	0.71
1:E:211:GLU:H	1:E:240:ASN:HD21	1.38	0.71
1:B:890:PRO:HB2	1:B:893:PHE:HB3	1.73	0.71
1:H:674:ASN:O	1:H:676:ARG:NH2	2.24	0.71
4:N:209:CYS:SG	4:N:210:LYS:N	2.64	0.70
1:A:1393:ASP:OD2	1:A:1393:ASP:N	2.22	0.70
1:K:1578:ARG:HH11	1:K:1580:ASP:HB3	1.55	0.70
1:L:964:ASN:HB3	1:L:967:ARG:HE	1.56	0.70
1:K:1481:ARG:NH1	1:K:1506:GLU:OE2	2.24	0.70
3:C:791:LEU:O	3:C:795:ASN:N	2.24	0.70
1:L:1109:SER:OG	1:L:1110:GLN:NE2	2.24	0.70
1:L:1151:GLU:O	1:L:1155:LYS:NZ	2.24	0.70
1:E:465:ASP:OD1	1:E:479:TYR:OH	2.07	0.70
1:A:1344:ASN:OD1	1:B:937:ASN:ND2	2.25	0.70
1:A:1460:ASN:HB3	1:A:1463:VAL:HG23	1.72	0.70
1:L:1423:LEU:HA	1:L:1426:LEU:HB2	1.73	0.70
3:C:436:CYS:CB	3:C:457:LEU:HD11	2.20	0.70
1:E:236:PRO:HG3	1:E:242:PRO:HG3	1.73	0.70
1:J:1472:ILE:O	1:J:1502:HIS:NE2	2.24	0.70
1:E:660:VAL:HB	1:E:667:LEU:HD21	1.72	0.70
1:E:681:ILE:H	1:E:681:ILE:HD12	1.57	0.70
1:A:1558:LEU:O	1:A:1563:ARG:NH2	2.24	0.70
1:H:725:PRO:HB3	1:H:754:TYR:HA	1.72	0.70
1:E:259:ASP:OD1	1:E:260:PHE:N	2.25	0.70
1:E:644:HIS:ND1	1:E:670:MET:SD	2.62	0.70
1:A:1313:HIS:CD2	1:A:1315:GLY:H	2.09	0.70
1:B:1105:PRO:HA	1:B:1108:TRP:CD1	2.27	0.70
4:D:103:ILE:HA	4:D:106:TRP:HB3	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:367:LYS:HE3	3:C:371:LEU:HD11	1.72	0.69
3:C:582:THR:HA	3:C:608:TYR:CZ	2.27	0.69
3:C:819:LEU:HD22	3:C:829:ILE:HG13	1.74	0.69
1:M:971:ILE:HA	1:M:974:VAL:HG22	1.73	0.69
1:L:1203:ASP:HA	1:L:1206:TYR:CZ	2.27	0.69
1:E:100:LYS:NZ	1:E:135:GLU:OE1	2.26	0.69
2:F:746:ALA:HB1	1:M:721:PHE:CB	2.12	0.69
3:C:798:LYS:HB3	3:C:802:ILE:HG23	1.75	0.69
3:C:820:LEU:HB3	3:C:852:ARG:HE	1.57	0.69
1:B:928:LEU:HA	1:B:931:ILE:HD12	1.74	0.69
1:E:377:TYR:O	1:E:381:ALA:HB2	1.92	0.69
3:C:438:PRO:O	3:C:442:GLN:N	2.25	0.69
3:C:542:PRO:HA	3:C:546:ILE:HD11	1.74	0.69
3:C:593:PRO:O	3:C:625:ARG:NH2	2.24	0.69
1:M:1064:LEU:HB3	1:M:1067:GLU:HB3	1.74	0.69
1:A:1324:TYR:O	1:A:1328:LYS:N	2.24	0.69
3:C:743:GLU:HA	3:C:746:ARG:CZ	2.22	0.69
1:B:891:GLU:HG2	1:B:895:ARG:HH12	1.58	0.69
1:B:1242:ASP:HA	1:B:1245:ARG:HE	1.58	0.69
1:E:486:ASN:ND2	1:E:509:GLY:O	2.26	0.69
1:J:1472:ILE:HD13	1:J:1498:ARG:HD2	1.75	0.69
1:H:668:ARG:NH1	1:H:672:SER:OG	2.26	0.69
1:E:182:GLN:HA	1:E:193:PRO:HA	1.72	0.69
3:C:477:SER:HB2	3:C:481:ARG:HE	1.58	0.69
1:A:1540:TYR:HA	1:A:1543:GLU:HG3	1.74	0.69
1:A:1574:TYR:HA	1:A:1577:LEU:HD23	1.73	0.69
4:I:218:VAL:HG22	4:I:223:LYS:HE2	1.75	0.69
1:E:273:VAL:N	1:E:285:TYR:O	2.24	0.69
1:E:534:GLN:NE2	1:E:568:ASP:OD2	2.25	0.69
3:C:745:GLU:HA	3:C:748:CYS:SG	2.32	0.69
3:C:796:LEU:HD21	3:C:800:ILE:HG22	1.75	0.69
3:C:837:ARG:HH21	3:C:838:GLY:H	1.40	0.69
3:C:863:GLU:O	3:C:867:HIS:ND1	2.22	0.69
1:M:660:VAL:HG22	1:M:662:ASP:H	1.58	0.69
1:M:928:LEU:HA	1:M:931:ILE:HD12	1.74	0.69
1:M:939:LEU:HD23	1:M:942:SER:H	1.56	0.69
1:M:970:LEU:HA	1:M:973:GLN:NE2	2.07	0.69
1:A:1493:ILE:O	1:A:1497:GLN:NE2	2.25	0.69
1:L:1242:ASP:O	1:L:1246:LYS:NZ	2.26	0.69
1:E:43:LYS:HA	1:E:48:ALA:HA	1.75	0.69
3:C:457:LEU:HD22	3:C:463:LEU:HB3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:505:ALA:CB	3:C:536:LEU:HD11	2.22	0.69
4:D:138:GLU:OE1	4:D:142:ARG:NH1	2.19	0.69
1:E:83:LYS:HE2	1:E:111:TRP:CH2	2.24	0.69
3:C:708:PHE:CD2	3:C:709:GLU:HB3	2.28	0.69
1:B:926:CYS:HB3	1:B:929:GLU:HB2	1.75	0.69
1:L:1249:SER:HB3	1:L:1252:THR:HG23	1.75	0.69
1:E:379:GLU:HA	1:E:382:LYS:HD2	1.73	0.68
1:E:454:GLU:OE1	1:E:456:LYS:NZ	2.26	0.68
1:E:568:ASP:HA	1:E:571:LYS:HD2	1.75	0.68
3:C:491:CYS:O	3:C:516:PHE:HB3	1.92	0.68
3:C:553:PHE:CG	3:C:562:CYS:HB2	2.28	0.68
1:M:817:GLY:O	1:M:852:ARG:NH2	2.25	0.68
1:A:1523:GLN:HA	1:A:1526:GLU:HB3	1.74	0.68
1:K:1397:LYS:HE3	1:L:976:GLN:HE21	1.58	0.68
4:I:195:VAL:O	4:I:199:CYS:N	2.16	0.68
1:E:433:LEU:HD21	1:E:462:GLU:HB3	1.75	0.68
1:E:593:PRO:O	1:E:625:ARG:NH1	2.26	0.68
3:C:793:ARG:HH22	1:B:1221:VAL:C	1.97	0.68
1:B:909:CYS:HA	1:B:912:ARG:HD2	1.74	0.68
1:B:1030:LEU:HA	1:B:1033:ILE:HD12	1.74	0.68
1:B:1106:ALA:O	1:B:1110:GLN:NE2	2.25	0.68
3:C:502:VAL:HG11	3:C:535:MET:HB2	1.76	0.68
3:C:659:SER:O	3:C:660:VAL:N	2.27	0.68
1:J:1500:GLU:HG3	1:J:1501:LYS:HG3	1.75	0.68
1:B:1232:VAL:HG21	1:B:1252:THR:HG21	1.76	0.68
1:K:1504:LEU:HB2	1:K:1507:PHE:HD1	1.58	0.68
1:E:475:ALA:HB1	1:E:479:TYR:HE2	1.57	0.68
1:M:657:SER:O	1:M:663:SER:OG	2.09	0.68
1:M:843:ASP:OD1	1:M:843:ASP:N	2.24	0.68
1:M:968:ARG:HD2	1:M:971:ILE:HD11	1.74	0.68
1:E:284:LEU:HG	1:E:293:ILE:HB	1.74	0.68
3:C:650:TRP:O	3:C:653:ASN:HB3	1.93	0.68
3:C:840:PHE:CE2	3:C:845:LEU:HB2	2.27	0.68
1:M:946:TYR:O	1:M:950:ARG:N	2.25	0.68
1:A:1439:PHE:HA	1:A:1442:VAL:HG22	1.73	0.68
1:L:990:VAL:HA	1:L:993:LYS:HD2	1.76	0.68
1:E:377:TYR:CG	1:E:413:PRO:HB3	2.29	0.68
1:E:411:THR:HB	1:E:416:GLN:HG2	1.74	0.68
1:A:1579:PRO:HD2	1:J:1607:LEU:HD21	1.76	0.68
1:B:945:ARG:HA	1:B:948:VAL:HG22	1.76	0.68
1:E:597:ASP:OD1	1:E:629:HIS:NE2	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:739:GLY:O	1:M:740:GLN:NE2	2.27	0.68
1:B:866:ILE:HD13	1:B:879:LEU:HD21	1.75	0.68
1:B:891:GLU:O	1:B:895:ARG:HB2	1.94	0.68
1:E:230:ILE:HB	1:E:246:LYS:HB2	1.76	0.68
1:E:266:ILE:HD13	1:E:287:LEU:HD13	1.76	0.68
1:E:283:HIS:HB3	1:E:285:TYR:HE1	1.59	0.68
1:E:283:HIS:NE2	1:E:295:MET:SD	2.66	0.68
4:D:103:ILE:HG23	4:D:106:TRP:HD1	1.59	0.68
1:K:1494:SER:O	1:K:1498:ARG:NE	2.26	0.68
1:M:741:ILE:O	1:M:745:GLU:N	2.20	0.68
1:H:760:LYS:HA	1:H:763:LEU:HD12	1.76	0.68
1:E:83:LYS:HD2	1:E:111:TRP:CH2	2.29	0.67
1:E:467:VAL:HG11	1:E:474:LEU:HB2	1.75	0.67
2:F:746:ALA:CB	1:M:721:PHE:CA	2.71	0.67
1:L:1280:ALA:HB2	1:L:1316:MET:HE1	1.75	0.67
1:E:63:ARG:O	1:E:64:ARG:NH1	2.27	0.67
3:C:650:TRP:CZ2	3:C:654:TYR:HE2	2.13	0.67
3:C:715:LEU:HB3	3:C:719:VAL:HG12	1.74	0.67
1:M:873:PRO:O	1:M:877:ASN:ND2	2.27	0.67
1:M:922:GLU:O	1:M:925:GLN:NE2	2.27	0.67
1:B:1267:ARG:HH11	1:B:1268:LEU:HG	1.59	0.67
1:H:791:LEU:O	1:H:795:ASN:N	2.26	0.67
4:N:218:VAL:HG22	4:N:223:LYS:HB2	1.76	0.67
1:E:164:TRP:HB3	1:E:183:LEU:HD11	1.76	0.67
3:C:743:GLU:OE1	3:C:743:GLU:N	2.27	0.67
1:M:655:PHE:HA	1:M:658:LEU:HB3	1.75	0.67
1:A:1377:THR:O	1:A:1381:HIS:N	2.24	0.67
4:D:138:GLU:O	4:D:141:GLN:NE2	2.28	0.67
1:M:866:ILE:HG13	1:M:879:LEU:HD11	1.76	0.67
1:A:1469:ASN:HA	1:A:1472:ILE:HD12	1.76	0.67
1:B:858:LEU:O	1:B:862:LEU:N	2.19	0.67
1:E:81:ALA:HB1	1:E:88:LEU:HD11	1.77	0.67
1:E:372:PHE:HE1	1:E:417:TYR:HE1	1.42	0.67
1:E:467:VAL:O	1:E:471:ASP:N	2.18	0.67
1:M:826:GLU:OE1	1:M:826:GLU:N	2.26	0.67
4:D:108:GLU:HA	4:D:111:ARG:HG2	1.77	0.67
1:K:1445:LEU:HA	1:K:1448:VAL:HG22	1.76	0.67
3:C:521:VAL:HG13	3:C:524:ILE:HG21	1.76	0.67
1:L:1185:GLU:N	1:L:1185:GLU:OE1	2.27	0.67
1:H:852:ARG:O	1:H:854:ARG:NH1	2.28	0.67
1:E:568:ASP:OD1	1:E:571:LYS:NZ	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:466:LEU:O	3:C:469:SER:OG	2.10	0.67
3:C:708:PHE:CG	3:C:709:GLU:N	2.63	0.67
1:L:1398:VAL:O	1:L:1429:ARG:NH2	2.28	0.67
3:C:418:PHE:HZ	3:C:447:LEU:HD13	1.57	0.67
3:C:495:THR:OG1	3:C:526:PRO:HG2	1.95	0.67
3:C:546:ILE:HB	3:C:583:ARG:HH11	1.59	0.67
1:A:1492:ASN:HA	1:A:1495:LEU:HD13	1.77	0.67
1:B:1157:LEU:HD13	1:B:1173:LEU:HA	1.77	0.67
1:E:668:ARG:HG2	1:E:698:LEU:HD11	1.75	0.67
3:C:662:ASP:O	3:C:665:GLU:N	2.26	0.67
1:B:1123:GLU:N	1:B:1123:GLU:OE2	2.27	0.67
1:E:402:GLN:HA	1:E:414:LEU:HD11	1.75	0.67
1:E:451:TRP:HB3	1:E:456:LYS:HB2	1.77	0.67
1:E:490:GLN:CB	1:E:513:ASP:HB3	2.18	0.67
1:E:576:SER:O	1:E:581:GLN:NE2	2.28	0.67
1:M:957:GLY:HA2	1:M:960:LEU:HB2	1.76	0.67
1:B:1125:ILE:HG12	1:B:1152:GLU:HG3	1.76	0.67
1:B:1143:ALA:O	1:B:1149:ASN:ND2	2.28	0.67
1:B:1203:ASP:OD1	1:B:1218:TYR:OH	2.13	0.67
1:B:1218:TYR:HB3	1:B:1227:LEU:HB3	1.76	0.67
1:E:26:GLY:O	1:E:30:LEU:N	2.29	0.66
4:D:126:GLN:OE1	4:D:129:ARG:NH1	2.28	0.66
1:J:1609:LYS:O	1:J:1613:LEU:HG	1.95	0.66
1:K:1574:TYR:OH	1:K:1601:GLN:NE2	2.28	0.66
1:E:31:THR:N	1:E:39:CYS:O	2.28	0.66
3:C:502:VAL:HG12	3:C:532:PHE:O	1.94	0.66
3:C:826:GLU:N	3:C:826:GLU:OE1	2.28	0.66
1:A:1411:TYR:O	1:A:1415:LYS:N	2.27	0.66
1:L:1136:SER:O	1:L:1140:VAL:N	2.24	0.66
1:L:1188:GLU:OE1	1:L:1188:GLU:N	2.29	0.66
1:E:38:ILE:HB	1:E:53:ILE:HB	1.78	0.66
1:E:51:VAL:HG13	1:E:63:ARG:HG2	1.76	0.66
1:E:200:SER:O	1:E:217:CYS:N	2.25	0.66
1:E:318:VAL:HG22	1:E:324:VAL:HG22	1.77	0.66
3:C:479:TYR:HB3	3:C:485:PRO:HD2	1.77	0.66
3:C:857:LEU:O	3:C:859:LEU:N	2.27	0.66
1:L:1097:GLU:N	1:L:1097:GLU:OE1	2.27	0.66
3:C:393:ARG:NH2	3:C:425:GLY:O	2.28	0.66
3:C:864:ALA:HA	3:C:867:HIS:CE1	2.29	0.66
1:E:74:ASN:ND2	1:E:116:LEU:O	2.22	0.66
1:E:181:MET:N	1:E:194:ILE:O	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:231:ILE:HG22	1:E:245:LYS:HB3	1.76	0.66
1:B:1128:TYR:OH	1:B:1136:SER:OG	2.13	0.66
4:D:118:ASP:OD1	4:D:119:ALA:N	2.28	0.66
1:E:439:VAL:HA	1:E:442:GLN:HB2	1.78	0.66
3:C:684:GLN:O	3:C:687:SER:OG	2.09	0.66
1:B:1207:ASP:O	1:B:1209:LYS:NZ	2.29	0.66
1:E:8:ARG:NH2	1:E:332:GLU:OE2	2.29	0.66
1:E:109:THR:OG1	1:E:124:ASP:OD1	2.13	0.66
1:E:676:ARG:HH21	1:E:704:SER:C	1.98	0.66
1:M:890:PRO:HB2	1:M:893:PHE:HB3	1.76	0.66
1:L:1007:LEU:HD23	1:L:1010:LYS:HZ1	1.60	0.66
1:E:31:THR:HG21	1:E:72:ILE:HA	1.76	0.66
3:C:725:PRO:C	3:C:758:ARG:HH22	1.99	0.66
1:A:1494:SER:HA	1:A:1497:GLN:HG2	1.78	0.66
1:E:90:ILE:HG21	1:E:132:MET:HB3	1.76	0.66
1:E:175:ASN:O	1:E:176:ARG:NH1	2.25	0.66
3:C:478:VAL:O	3:C:482:ALA:N	2.25	0.66
3:C:655:PHE:O	3:C:659:SER:N	2.27	0.66
1:M:709:GLU:O	1:M:712:PHE:HB3	1.96	0.66
1:E:121:LEU:N	1:E:128:TYR:O	2.23	0.66
3:C:534:GLN:HB2	3:C:565:PHE:CD1	2.30	0.66
3:C:727:VAL:O	3:C:731:TYR:HB2	1.96	0.66
1:A:1608:THR:OG1	1:A:1609:LYS:NZ	2.29	0.66
4:D:146:GLN:O	4:D:150:ASN:ND2	2.29	0.66
1:K:1526:GLU:HA	1:K:1529:LYS:HD3	1.78	0.66
3:C:668:ARG:HB2	3:C:668:ARG:HH21	1.61	0.65
1:H:825:SER:OG	1:H:827:ASP:OD1	2.13	0.65
4:N:218:VAL:O	4:N:223:LYS:N	2.29	0.65
1:K:1595:ALA:O	1:K:1599:PHE:N	2.26	0.65
1:M:567:LEU:HD23	1:M:570:LEU:HD12	1.78	0.65
1:M:802:ILE:HA	1:M:805:GLN:HG2	1.77	0.65
4:O:130:GLU:HA	4:O:133:LYS:HE2	1.78	0.65
1:K:1539:GLN:O	1:K:1542:SER:OG	2.15	0.65
1:E:172:ALA:HA	1:E:177:VAL:HA	1.77	0.65
1:M:714:PHE:O	1:M:717:SER:OG	2.13	0.65
1:A:1492:ASN:HB2	1:A:1518:ASN:HD21	1.59	0.65
1:L:1328:LYS:HB3	1:L:1331:LYS:HD3	1.77	0.65
1:E:349:LEU:HD13	1:E:367:LYS:HE3	1.76	0.65
1:A:1493:ILE:HG13	1:A:1494:SER:H	1.60	0.65
4:N:128:TRP:HA	4:N:131:LYS:HE3	1.77	0.65
1:E:289:THR:OG1	1:E:291:THR:OG1	2.13	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:615:GLN:O	3:C:618:GLU:HB3	1.97	0.65
3:C:669:ALA:O	3:C:672:SER:OG	2.14	0.65
3:C:839:GLN:N	3:C:839:GLN:OE1	2.30	0.65
1:M:1016:SER:O	1:M:1019:SER:OG	2.14	0.65
1:B:995:PHE:HA	1:B:1000:LEU:HD23	1.77	0.65
3:C:576:SER:HB3	3:C:607:HIS:HB3	1.78	0.65
1:L:1158:GLN:O	1:L:1162:LYS:NZ	2.17	0.65
1:E:183:LEU:O	1:E:192:GLN:N	2.27	0.65
1:E:267:SER:O	1:E:271:ASP:N	2.29	0.65
3:C:825:SER:OG	3:C:826:GLU:OE1	2.13	0.65
1:M:786:ASP:OD1	1:M:786:ASP:N	2.27	0.65
1:B:1111:LEU:O	1:B:1115:GLN:NE2	2.30	0.65
1:L:1352:ALA:HB1	1:L:1361:LEU:HD22	1.78	0.65
3:C:832:LEU:HA	3:C:835:VAL:HG22	1.79	0.64
1:A:1513:TYR:O	1:A:1516:LYS:HG2	1.97	0.64
1:B:849:VAL:O	1:B:853:ASN:N	2.30	0.64
1:B:1025:GLN:HE21	1:B:1050:TYR:HB2	1.62	0.64
1:L:1139:GLU:OE1	1:L:1139:GLU:N	2.22	0.64
3:C:687:SER:HB3	3:C:714:PHE:HE1	1.63	0.64
1:A:1460:ASN:ND2	1:A:1462:SER:OG	2.30	0.64
1:A:1514:LEU:O	1:A:1518:ASN:N	2.29	0.64
1:K:1503:GLU:H	1:K:1508:ARG:HH22	1.44	0.64
1:L:1129:ILE:HB	1:L:1130:LYS:HZ3	1.61	0.64
1:L:1238:GLN:NE2	1:L:1242:ASP:OD1	2.30	0.64
1:E:8:ARG:NE	1:E:330:GLU:OE1	2.30	0.64
1:E:342:LEU:O	1:E:344:ASN:ND2	2.30	0.64
1:E:505:ALA:O	1:E:514:TRP:NE1	2.29	0.64
3:C:442:GLN:HB3	3:C:444:ARG:HG2	1.79	0.64
3:C:486:ASN:HB3	3:C:510:TYR:HE1	1.61	0.64
3:C:626:ALA:C	3:C:629:HIS:HD1	1.98	0.64
3:C:793:ARG:NH2	1:B:1221:VAL:O	2.23	0.64
1:M:856:LYS:H	1:M:856:LYS:HD2	1.63	0.64
1:A:1402:GLU:OE1	1:A:1402:GLU:N	2.31	0.64
1:B:1198:ILE:HD11	1:B:1218:TYR:HD1	1.63	0.64
3:C:474:LEU:O	3:C:477:SER:OG	2.11	0.64
1:B:1002:ASN:ND2	1:B:1034:LYS:O	2.31	0.64
1:E:211:GLU:H	1:E:240:ASN:ND2	1.94	0.64
3:C:762:PHE:O	3:C:765:GLU:HG2	1.98	0.64
3:C:501:ILE:HG21	3:C:517:LEU:HD13	1.79	0.64
3:C:743:GLU:O	3:C:746:ARG:HB3	1.98	0.64
1:B:1039:ARG:HB2	1:B:1043:TYR:CZ	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:618:GLU:HG2	1:E:642:HIS:NE2	2.13	0.64
1:M:939:LEU:HD21	1:M:941:LYS:HE3	1.77	0.64
1:L:1419:LEU:O	1:L:1423:LEU:HG	1.98	0.64
1:E:275:LEU:O	1:E:283:HIS:N	2.31	0.64
1:E:524:ILE:HB	1:E:526:PRO:HG2	1.79	0.64
3:C:463:LEU:HD23	3:C:464:GLY:N	2.13	0.64
3:C:791:LEU:HB3	3:C:796:LEU:HD12	1.80	0.64
4:O:126:GLN:OE1	4:O:129:ARG:NH1	2.30	0.64
1:K:1584:GLU:OE1	1:K:1588:ARG:NH2	2.30	0.64
1:L:1128:TYR:HD1	1:L:1131:ALA:HB3	1.62	0.64
1:L:1224:PHE:O	1:L:1226:ARG:NH2	2.28	0.64
1:L:1360:GLU:OE1	1:L:1360:GLU:N	2.30	0.64
4:I:150:ASN:O	4:I:154:ASN:ND2	2.31	0.64
4:N:192:TRP:HA	4:N:195:VAL:HG22	1.80	0.64
4:D:119:ALA:HA	4:D:122:LYS:HD3	1.80	0.64
1:K:1527:LEU:HA	1:K:1530:LYS:HG3	1.78	0.64
1:L:1043:TYR:O	1:L:1047:LEU:N	2.31	0.64
1:E:1:MET:HE2	2:F:896:GLY:O	1.98	0.64
1:E:514:TRP:HH2	1:E:541:GLU:H	1.47	0.64
3:C:514:TRP:HE1	3:C:549:ILE:CG1	2.10	0.64
3:C:715:LEU:HD23	3:C:718:ILE:HD12	1.79	0.64
1:M:655:PHE:O	1:M:659:SER:N	2.25	0.64
1:B:1142:GLN:O	1:B:1146:THR:OG1	2.15	0.64
1:B:1216:LEU:O	1:B:1220:ASN:ND2	2.31	0.64
1:E:202:ALA:N	1:E:215:LEU:O	2.27	0.63
3:C:650:TRP:CE2	3:C:654:TYR:HE2	2.15	0.63
1:M:718:ILE:O	1:M:722:SER:OG	2.15	0.63
1:B:1157:LEU:HB2	1:B:1173:LEU:HD13	1.80	0.63
1:B:1221:VAL:HB	1:B:1223:ASN:HD21	1.63	0.63
1:K:1492:ASN:HB3	1:K:1514:LEU:HD13	1.80	0.63
1:K:1571:PHE:HA	1:K:1574:TYR:HB2	1.80	0.63
4:I:217:SER:O	4:I:221:SER:N	2.26	0.63
1:E:100:LYS:HG3	1:E:130:TRP:HZ2	1.64	0.63
1:E:115:SER:OG	1:E:118:THR:N	2.23	0.63
1:E:309:HIS:N	1:E:314:GLY:O	2.30	0.63
1:E:510:TYR:O	1:E:514:TRP:N	2.26	0.63
3:C:581:GLN:HE21	3:C:604:MET:HA	1.62	0.63
1:A:1378:MET:HE2	1:A:1386:TRP:HD1	1.64	0.63
1:B:828:VAL:HA	1:B:831:ASN:HD22	1.63	0.63
1:J:1557:PHE:HD2	1:J:1566:PHE:HD1	1.44	0.63
1:H:772:LEU:HG	1:H:799:TYR:HE1	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:10:GLN:O	1:E:326:SER:N	2.32	0.63
1:E:123:THR:HG23	1:E:128:TYR:CE1	2.33	0.63
1:E:166:LEU:HA	1:E:183:LEU:HA	1.80	0.63
3:C:779:ASP:OD1	3:C:779:ASP:N	2.30	0.63
1:A:1449:LYS:HA	1:A:1452:LEU:HD12	1.80	0.63
1:K:1456:GLN:OE1	1:K:1464:ASN:ND2	2.31	0.63
1:E:573:ASN:HA	1:E:576:SER:OG	1.99	0.63
3:C:426:GLN:HG3	3:C:455:ASP:O	1.99	0.63
3:C:574:ARG:HG3	3:C:575:PRO:HD3	1.80	0.63
1:M:987:GLU:HA	1:M:990:VAL:HG12	1.80	0.63
3:C:665:GLU:O	3:C:668:ARG:NH2	2.31	0.63
1:J:1617:GLU:OE1	1:J:1621:LYS:NZ	2.22	0.63
1:L:1405:TYR:HA	1:L:1408:ILE:HD12	1.79	0.63
1:E:296:ASN:OD1	1:E:297:ARG:N	2.32	0.63
1:B:813:PRO:HA	1:B:839:GLN:H	1.63	0.63
4:O:104:ARG:HE	4:O:111:ARG:HH22	1.46	0.63
1:J:1605:GLU:O	1:J:1609:LYS:HG2	1.99	0.63
1:L:1203:ASP:OD1	1:L:1218:TYR:OH	2.16	0.63
1:E:87:THR:HA	1:E:103:THR:HA	1.79	0.63
1:E:445:LYS:HA	1:E:448:LEU:HD12	1.80	0.63
3:C:440:LEU:HD12	3:C:445:LYS:HG3	1.80	0.63
3:C:762:PHE:HA	3:C:765:GLU:HG2	1.80	0.63
1:M:890:PRO:O	1:M:894:LEU:N	2.25	0.63
1:A:1605:GLU:HB2	4:D:210:LYS:HE3	1.81	0.63
1:B:1109:SER:OG	1:B:1110:GLN:NE2	2.32	0.63
4:N:205:SER:O	4:N:208:GLN:NE2	2.32	0.63
1:E:226:GLY:O	1:E:250:VAL:N	2.30	0.63
1:E:534:GLN:HG2	1:E:565:PHE:HA	1.81	0.63
3:C:498:VAL:HG13	3:C:532:PHE:HD1	1.62	0.63
3:C:812:LEU:HB2	3:C:837:ARG:NH1	2.14	0.63
1:M:687:SER:HA	1:M:690:HIS:HD2	1.61	0.63
1:K:1470:LEU:O	1:K:1474:GLU:CB	2.47	0.63
1:L:943:LEU:HD21	1:L:959:VAL:HG11	1.80	0.63
1:L:1082:VAL:HG21	1:L:1107:VAL:HG13	1.81	0.63
1:L:1234:LEU:HD22	1:L:1236:GLU:HB2	1.81	0.63
1:L:1309:LEU:HD12	1:L:1312:ALA:HB3	1.81	0.63
1:E:72:ILE:HG13	1:E:81:ALA:HB3	1.80	0.62
1:E:523:ARG:HE	1:E:552:VAL:HG11	1.63	0.62
1:E:523:ARG:HH21	1:E:552:VAL:HG21	1.64	0.62
3:C:441:GLN:OE1	3:C:441:GLN:N	2.29	0.62
3:C:519:ARG:HG2	3:C:523:ARG:NH1	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:549:ILE:O	3:C:553:PHE:HD2	1.82	0.62
1:M:826:GLU:HA	1:M:829:ILE:HD13	1.81	0.62
1:L:1444:GLN:HB3	1:L:1447:LEU:HD12	1.81	0.62
1:H:680:GLN:HG3	1:H:684:GLN:HE21	1.63	0.62
1:H:778:CYS:O	1:H:782:ASP:N	2.31	0.62
1:E:118:THR:HA	1:E:131:SER:HA	1.80	0.62
1:E:702:PHE:O	1:E:706:LYS:N	2.31	0.62
3:C:510:TYR:O	3:C:513:ASP:HB3	1.99	0.62
3:C:540:GLU:HA	3:C:569:ALA:HB1	1.81	0.62
3:C:709:GLU:O	3:C:712:PHE:HB3	1.99	0.62
1:K:1408:ILE:HG13	1:K:1419:LEU:HD22	1.79	0.62
1:L:1390:GLN:H	1:L:1390:GLN:CD	2.02	0.62
1:E:628:GLU:O	1:E:631:THR:OG1	2.15	0.62
3:C:494:GLU:HA	3:C:520:ASN:HB3	1.80	0.62
1:L:1388:GLU:HG2	1:L:1389:GLY:H	1.64	0.62
1:E:259:ASP:OD1	1:E:278:LYS:N	2.32	0.62
1:E:386:ASN:OD1	1:E:424:GLN:NE2	2.32	0.62
1:M:581:GLN:HG3	1:M:608:TYR:HE1	1.63	0.62
1:M:1008:LEU:HA	1:M:1011:ILE:HG22	1.80	0.62
1:A:1449:LYS:HE2	1:A:1453:ARG:HD3	1.79	0.62
1:L:1259:ALA:O	1:L:1263:GLY:N	2.30	0.62
1:E:180:ALA:HA	1:E:195:GLU:HA	1.81	0.62
1:E:282:ILE:N	1:E:296:ASN:O	2.26	0.62
1:E:368:PHE:CE1	1:E:383:VAL:HG23	2.34	0.62
1:E:653:ASN:HB3	1:E:674:ASN:HD21	1.65	0.62
2:F:748:GLN:CG	1:M:720:ASN:ND2	2.59	0.62
3:C:534:GLN:HB2	3:C:565:PHE:HA	1.80	0.62
3:C:677:GLN:O	3:C:680:GLN:NE2	2.31	0.62
1:B:1025:GLN:N	1:B:1025:GLN:OE1	2.33	0.62
3:C:581:GLN:CB	3:C:608:TYR:HB2	2.29	0.62
3:C:664:LEU:H	3:C:664:LEU:HD12	1.63	0.62
4:O:113:ARG:HH21	4:O:117:LEU:HG	1.65	0.62
1:L:1025:GLN:HA	1:L:1028:LEU:HB3	1.80	0.62
1:E:579:PRO:O	1:E:582:THR:OG1	2.16	0.62
3:C:514:TRP:CZ3	3:C:517:LEU:HD22	2.35	0.62
3:C:755:ASP:H	3:C:758:ARG:NH2	1.98	0.62
1:M:747:ILE:O	1:M:751:SER:N	2.27	0.62
1:B:1047:LEU:HD12	1:B:1048:ASP:H	1.64	0.62
1:L:948:VAL:HG21	1:L:978:ALA:HA	1.81	0.62
1:H:749:ARG:O	1:H:752:ASN:ND2	2.30	0.62
1:E:433:LEU:HD23	1:E:466:LEU:HD11	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:499:GLN:HA	3:C:502:VAL:HG22	1.82	0.62
3:C:518:LEU:O	3:C:522:MET:HG3	2.00	0.62
3:C:675:ILE:HA	3:C:676:ARG:NH1	2.15	0.62
3:C:742:LYS:HE2	1:H:641:VAL:HG11	0.64	0.62
1:K:1500:GLU:HA	1:K:1508:ARG:HB3	1.82	0.62
1:L:1099:ALA:HA	1:L:1102:CYS:HB2	1.80	0.62
1:H:648:PRO:HA	1:H:651:LEU:HB2	1.82	0.62
1:E:38:ILE:N	1:E:53:ILE:O	2.33	0.62
3:C:504:TYR:O	3:C:510:TYR:N	2.33	0.62
3:C:553:PHE:O	3:C:557:ASN:N	2.32	0.62
3:C:689:TYR:HA	3:C:692:GLN:NE2	2.15	0.62
1:M:574:ARG:HB3	1:M:575:PRO:HD3	1.82	0.62
1:M:610:ARG:HB2	1:M:633:LEU:HD21	1.79	0.62
1:M:717:SER:O	1:M:720:ASN:ND2	2.33	0.62
1:A:1491:ASP:OD1	1:A:1492:ASN:N	2.30	0.62
1:H:687:SER:HA	1:H:690:HIS:CD2	2.34	0.62
1:E:179:GLY:O	1:E:196:GLY:N	2.32	0.62
1:E:599:ILE:HA	1:E:602:ASN:HB2	1.82	0.62
1:E:654:TYR:HE1	1:E:680:GLN:HB2	1.65	0.62
2:F:718:VAL:HG12	1:M:723:GLN:CG	2.25	0.62
3:C:523:ARG:HG3	3:C:523:ARG:O	1.98	0.62
3:C:724:ASP:HB3	3:C:727:VAL:HG12	1.81	0.62
3:C:741:ILE:HB	3:C:745:GLU:HG2	1.81	0.62
3:C:772:LEU:HB2	3:C:775:ILE:HD13	1.81	0.62
4:O:155:ARG:NH1	4:O:158:ASP:O	2.33	0.62
1:J:1624:GLU:OE2	1:J:1625:GLN:NE2	2.33	0.62
1:E:277:THR:OG1	1:E:281:TYR:HB2	1.99	0.61
3:C:712:PHE:CE1	3:C:734:ALA:HB3	2.35	0.61
3:C:719:VAL:CG2	3:C:727:VAL:HG11	2.30	0.61
3:C:760:LYS:O	3:C:764:LYS:HG3	2.00	0.61
3:C:821:ASP:OD1	3:C:822:VAL:N	2.33	0.61
1:M:812:LEU:O	1:M:816:ILE:HG12	2.00	0.61
1:B:1201:VAL:HA	1:B:1204:ARG:HB2	1.81	0.61
1:H:715:LEU:O	1:H:719:VAL:N	2.27	0.61
1:E:217:CYS:SG	1:E:230:ILE:HG12	2.40	0.61
1:E:368:PHE:HB3	1:E:372:PHE:HE2	1.65	0.61
1:A:1445:LEU:H	1:A:1445:LEU:HD12	1.65	0.61
1:A:1596:MET:HA	1:A:1599:PHE:HD2	1.65	0.61
1:B:940:PHE:HA	1:B:943:LEU:HD23	1.82	0.61
1:B:1236:GLU:OE2	1:B:1239:ALA:N	2.33	0.61
4:D:130:GLU:HA	4:D:133:LYS:HD2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1547:THR:HG23	1:J:1548:GLU:HG2	1.81	0.61
1:K:1521:TRP:O	1:K:1522:LYS:HG2	2.01	0.61
1:L:1032:ALA:HB2	1:L:1043:TYR:HE2	1.65	0.61
1:H:682:CYS:HA	1:H:685:VAL:HG12	1.82	0.61
1:E:335:ILE:HD11	1:E:352:ALA:HB2	1.82	0.61
1:E:654:TYR:CE1	1:E:680:GLN:HB2	2.34	0.61
1:E:655:PHE:HA	1:E:658:LEU:HD12	1.81	0.61
3:C:528:GLN:HB3	3:C:561:GLN:NE2	2.15	0.61
3:C:851:LYS:HE3	3:C:852:ARG:NH1	2.14	0.61
1:M:578:GLY:HA2	1:M:607:HIS:HB3	1.81	0.61
1:M:701:LEU:O	1:M:704:SER:OG	2.17	0.61
1:K:1620:ARG:O	1:K:1624:GLU:HG2	2.00	0.61
1:H:687:SER:HA	1:H:690:HIS:HD2	1.64	0.61
1:E:527:ASP:H	1:E:531:GLN:HE22	1.48	0.61
3:C:519:ARG:CG	3:C:523:ARG:HH12	2.12	0.61
1:M:617:CYS:HB2	1:M:622:LEU:HB2	1.80	0.61
4:O:118:ASP:OD1	4:O:119:ALA:N	2.34	0.61
4:O:130:GLU:O	4:O:134:LYS:NZ	2.24	0.61
1:L:1086:ILE:HA	1:L:1090:GLY:HA2	1.81	0.61
1:L:1400:ASN:OD1	1:L:1403:LEU:N	2.30	0.61
1:E:527:ASP:N	1:E:531:GLN:HE22	1.99	0.61
3:C:577:GLU:HB2	3:C:579:PRO:HD2	1.82	0.61
1:B:971:ILE:O	1:B:975:VAL:HG13	2.01	0.61
1:B:1035:ALA:O	1:B:1037:ARG:NH1	2.33	0.61
4:D:125:GLU:HG3	4:D:129:ARG:HH22	1.64	0.61
1:L:1026:ASN:O	1:L:1030:LEU:HB2	2.00	0.61
1:L:1372:ASP:OD1	1:L:1372:ASP:N	2.30	0.61
3:C:529:GLY:H	3:C:561:GLN:HG2	1.64	0.61
3:C:553:PHE:HA	3:C:558:LEU:HB2	1.81	0.61
3:C:696:GLN:O	3:C:699:ILE:HG12	2.00	0.61
1:L:1020:GLU:OE1	1:L:1022:ARG:NH1	2.33	0.61
3:C:683:VAL:HG21	3:C:710:GLY:HA3	1.83	0.61
1:M:1040:VAL:HA	1:M:1043:TYR:CD2	2.35	0.61
1:J:1586:ALA:HA	1:J:1591:ILE:HG13	1.83	0.61
1:K:1398:VAL:HG11	1:K:1403:LEU:HD22	1.83	0.61
1:K:1609:LYS:O	1:K:1613:LEU:HG	2.01	0.61
3:C:545:ASP:OD1	3:C:545:ASP:N	2.33	0.61
1:M:970:LEU:O	1:M:974:VAL:HG13	2.01	0.61
1:B:1174:ILE:HG13	1:B:1201:VAL:HG11	1.82	0.61
1:E:83:LYS:NZ	1:E:111:TRP:CD2	2.68	0.61
1:E:708:PHE:HB3	1:E:712:PHE:CZ	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:808:LYS:HG3	2:F:813:VAL:HG22	1.82	0.61
3:C:724:ASP:O	3:C:727:VAL:HG12	2.00	0.61
1:M:901:ASP:OD2	1:M:904:VAL:N	2.28	0.61
1:A:1376:ILE:HA	1:A:1406:ARG:HH22	1.65	0.61
1:B:873:PRO:O	1:B:877:ASN:N	2.28	0.61
1:H:790:TYR:O	1:H:794:ASN:ND2	2.34	0.61
4:N:215:LEU:HA	4:N:218:VAL:HG12	1.82	0.61
1:E:224:ALA:HB1	1:E:227:LYS:HE3	1.83	0.61
3:C:472:PRO:HG2	3:C:494:GLU:H	1.66	0.61
3:C:741:ILE:HG13	3:C:742:LYS:N	2.15	0.61
3:C:770:ASP:OD1	3:C:770:ASP:N	2.32	0.61
1:M:913:ASP:HB3	1:M:916:LEU:HG	1.83	0.61
1:M:1071:ILE:HA	1:M:1074:LYS:HB3	1.81	0.61
1:B:909:CYS:HB2	1:B:912:ARG:HB2	1.83	0.61
1:E:109:THR:N	1:E:122:VAL:O	2.33	0.60
3:C:479:TYR:HD2	3:C:489:ILE:HA	1.66	0.60
3:C:837:ARG:HH11	3:C:840:PHE:HD1	1.49	0.60
1:B:955:LEU:O	1:B:958:SER:OG	2.16	0.60
1:H:748:CYS:HB2	1:H:777:VAL:HG21	1.83	0.60
1:H:815:VAL:O	1:H:819:LEU:HG	2.00	0.60
1:E:120:ALA:HA	1:E:129:HIS:HA	1.84	0.60
1:E:128:TYR:HA	1:E:140:LYS:HA	1.82	0.60
1:E:449:GLU:O	1:E:453:LYS:HG3	2.01	0.60
1:E:519:ARG:HB3	1:E:523:ARG:CZ	2.31	0.60
1:E:676:ARG:HB2	1:E:705:PHE:HD1	1.66	0.60
3:C:424:GLN:HE21	3:C:427:LEU:HD11	1.66	0.60
3:C:545:ASP:OD2	3:C:548:GLN:HB2	2.01	0.60
3:C:577:GLU:OE1	3:C:580:LEU:N	2.33	0.60
3:C:729:PHE:HD1	3:C:759:VAL:HG22	1.66	0.60
1:M:1042:GLU:HB2	1:M:1046:ARG:HH21	1.66	0.60
1:A:1440:SER:HA	1:A:1445:LEU:HD11	1.82	0.60
1:E:362:GLU:OE1	1:E:366:ARG:NH2	2.34	0.60
3:C:397:THR:HG22	3:C:400:ARG:HH21	1.67	0.60
1:M:588:ASN:O	1:M:592:ALA:N	2.34	0.60
1:M:648:PRO:HG3	1:M:653:ASN:HD22	1.65	0.60
1:M:696:GLN:OE1	1:M:696:GLN:N	2.35	0.60
1:B:1187:GLU:OE2	1:B:1220:ASN:ND2	2.34	0.60
1:J:1605:GLU:O	1:J:1608:THR:OG1	2.16	0.60
1:H:796:LEU:HD22	1:H:800:ILE:HG23	1.83	0.60
3:C:462:GLU:O	3:C:466:LEU:HG	2.01	0.60
1:M:1003:GLU:OE2	1:M:1037:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1144:ALA:HA	1:L:1149:ASN:HD21	1.65	0.60
1:E:33:GLU:HG3	1:E:113:TRP:HD1	1.67	0.60
1:M:900:TYR:O	1:M:923:ARG:NH2	2.35	0.60
1:A:1415:LYS:HB3	1:A:1418:LEU:HB2	1.84	0.60
1:B:1086:ILE:HA	1:B:1090:GLY:HA2	1.83	0.60
1:B:1260:CYS:HB3	1:B:1265:GLU:HB2	1.83	0.60
1:L:1378:MET:HE1	1:L:1387:LYS:H	1.66	0.60
1:E:182:GLN:NE2	1:E:191:SER:OG	2.33	0.60
1:E:216:PHE:N	1:E:231:ILE:O	2.30	0.60
1:E:372:PHE:HE1	1:E:417:TYR:CE1	2.19	0.60
1:E:644:HIS:CD2	1:E:666:CYS:HB3	2.36	0.60
1:E:698:LEU:HB3	1:E:702:PHE:CE2	2.36	0.60
3:C:393:ARG:HD2	3:C:431:GLU:HB3	1.83	0.60
3:C:617:CYS:O	3:C:621:GLY:N	2.32	0.60
1:M:702:PHE:O	1:M:707:SER:HB3	2.02	0.60
1:A:1265:GLU:HB3	1:A:1268:LEU:HB2	1.82	0.60
1:B:1230:THR:O	1:B:1234:LEU:HB2	2.01	0.60
4:D:114:LEU:HD23	4:D:117:LEU:HD12	1.84	0.60
1:L:1032:ALA:O	1:L:1036:ASP:N	2.32	0.60
1:L:1216:LEU:O	1:L:1220:ASN:ND2	2.35	0.60
1:L:1365:TYR:CE2	1:L:1373:ASN:HB3	2.37	0.60
1:L:1365:TYR:CZ	1:L:1373:ASN:HB3	2.37	0.60
1:E:183:LEU:HD23	1:E:192:GLN:HE21	1.65	0.60
1:E:183:LEU:N	1:E:192:GLN:O	2.33	0.60
1:M:944:SER:HA	1:M:947:LEU:HD12	1.84	0.60
1:A:1478:GLN:HA	1:A:1481:ARG:HD3	1.81	0.60
1:B:968:ARG:HD2	1:B:971:ILE:HD11	1.83	0.60
1:B:1115:GLN:O	1:B:1120:MET:N	2.34	0.60
4:O:140:ASN:HA	4:O:143:GLN:HG2	1.83	0.60
1:H:724:ASP:O	1:H:728:HIS:ND1	2.21	0.60
1:E:75:PRO:HD2	1:E:116:LEU:HA	1.84	0.60
1:E:218:PHE:CE2	1:E:229:HIS:HB2	2.37	0.60
1:E:260:PHE:O	1:E:278:LYS:N	2.34	0.60
1:E:283:HIS:HB3	1:E:285:TYR:CE1	2.37	0.60
1:E:339:THR:HG22	1:E:345:PRO:HA	1.83	0.60
1:E:506:LYS:HD3	1:E:539:ASP:O	2.02	0.60
1:E:516:PHE:O	1:E:520:ASN:ND2	2.35	0.60
3:C:772:LEU:O	3:C:775:ILE:HG12	2.01	0.60
1:M:664:LEU:O	1:M:668:ARG:HG2	2.02	0.60
1:K:1405:TYR:OH	1:K:1431:ASP:O	2.19	0.60
1:E:32:MET:HB3	1:E:305:VAL:HG11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:156:TYR:CE1	1:E:165:LEU:HB3	2.37	0.60
1:E:170:ILE:HG22	1:E:179:GLY:HA2	1.84	0.60
1:E:546:ILE:HD12	1:E:580:LEU:HD22	1.83	0.60
1:E:670:MET:O	1:E:674:ASN:ND2	2.35	0.60
3:C:468:LYS:HG2	3:C:475:ALA:HB3	1.84	0.60
3:C:493:ALA:HB1	3:C:501:ILE:HG12	1.83	0.60
1:B:1199:GLN:NE2	1:B:1223:ASN:OD1	2.27	0.60
4:O:149:LYS:O	4:O:153:ASN:ND2	2.35	0.60
3:C:418:PHE:CZ	3:C:447:LEU:HD13	2.36	0.60
3:C:845:LEU:O	3:C:849:VAL:HG12	2.01	0.60
1:B:876:HIS:HB2	1:B:900:TYR:HB3	1.84	0.60
1:L:1251:ARG:HA	1:L:1254:LYS:HE2	1.84	0.60
1:L:1265:GLU:OE1	1:L:1267:ARG:N	2.35	0.60
1:H:846:VAL:HA	1:H:849:VAL:HG22	1.84	0.60
3:C:498:VAL:HG13	3:C:532:PHE:CD1	2.36	0.59
1:M:715:LEU:HD23	1:M:731:TYR:HB2	1.82	0.59
1:B:816:ILE:O	1:B:820:LEU:HG	2.02	0.59
1:L:1150:TRP:HB3	1:L:1176:ALA:HB1	1.82	0.59
1:E:154:ILE:HD11	1:E:170:ILE:HD13	1.83	0.59
1:E:446:GLN:O	1:E:450:LYS:HG3	2.02	0.59
3:C:712:PHE:HE1	3:C:731:TYR:O	1.84	0.59
3:C:831:ASN:HA	3:C:834:LEU:HB2	1.84	0.59
1:M:848:GLU:OE2	1:M:852:ARG:NH1	2.35	0.59
1:B:1132:ASP:O	1:B:1163:LYS:NZ	2.33	0.59
1:E:209:ASN:OD1	1:E:241:GLN:N	2.28	0.59
3:C:440:LEU:HD11	3:C:470:VAL:HG21	1.83	0.59
3:C:851:LYS:HE3	3:C:852:ARG:HH12	1.67	0.59
1:A:1333:ARG:NE	1:A:1337:GLU:OE2	2.31	0.59
1:A:1532:SER:OG	1:A:1537:ALA:N	2.30	0.59
4:N:129:ARG:HG2	4:N:133:LYS:HE3	1.85	0.59
1:E:86:LYS:NZ	1:E:105:THR:O	2.25	0.59
1:E:211:GLU:N	1:E:240:ASN:HD21	2.00	0.59
1:E:366:ARG:HA	1:E:369:ASN:HD22	1.67	0.59
3:C:506:LYS:NZ	3:C:538:GLN:HE21	2.01	0.59
3:C:567:LEU:HD22	3:C:571:LYS:HE3	1.85	0.59
1:M:1023:ASN:H	1:M:1026:ASN:ND2	1.98	0.59
1:B:1166:GLU:HG3	1:B:1169:VAL:H	1.67	0.59
1:E:377:TYR:O	1:E:381:ALA:CB	2.50	0.59
3:C:411:THR:OG1	3:C:416:GLN:OE1	2.20	0.59
3:C:528:GLN:HA	3:C:558:LEU:HG	1.84	0.59
3:C:719:VAL:HG21	3:C:727:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:945:ARG:HA	1:M:948:VAL:HG22	1.84	0.59
1:A:1502:HIS:CE1	1:A:1504:LEU:HD12	2.37	0.59
1:J:1535:LYS:O	1:J:1539:GLN:N	2.34	0.59
1:K:1372:ASP:O	1:K:1376:ILE:HG12	2.03	0.59
1:K:1422:LEU:HA	1:K:1425:VAL:HG22	1.84	0.59
1:H:816:ILE:O	1:H:820:LEU:HG	2.02	0.59
1:E:52:ILE:HB	1:E:62:ILE:HB	1.84	0.59
1:E:90:ILE:N	1:E:100:LYS:O	2.35	0.59
1:E:114:ILE:HD13	1:E:120:ALA:HB2	1.84	0.59
1:E:197:HIS:CD2	1:E:220:VAL:HG23	2.37	0.59
2:F:746:ALA:CA	1:M:721:PHE:CA	2.80	0.59
3:C:421:LEU:HD13	3:C:456:LYS:HD3	1.84	0.59
3:C:690:HIS:CE1	3:C:715:LEU:HD21	2.36	0.59
3:C:729:PHE:HD2	3:C:730:LYS:HD3	1.68	0.59
1:A:1437:ASN:O	1:A:1440:SER:OG	2.16	0.59
1:B:829:ILE:O	1:B:833:ILE:HG13	2.02	0.59
1:B:1068:ALA:HA	1:B:1071:ILE:HD12	1.82	0.59
1:L:1332:MET:O	1:L:1336:LEU:CB	2.50	0.59
1:H:747:ILE:O	1:H:751:SER:N	2.32	0.59
4:N:146:GLN:HE22	4:N:149:LYS:HD2	1.67	0.59
4:N:165:PRO:HB2	4:N:198:LEU:HD12	1.83	0.59
1:E:527:ASP:O	1:E:531:GLN:NE2	2.36	0.59
3:C:435:LEU:HG	3:C:451:TRP:CZ3	2.37	0.59
3:C:650:TRP:CE2	3:C:654:TYR:CE2	2.90	0.59
1:M:684:GLN:O	1:M:687:SER:OG	2.12	0.59
1:M:771:GLN:OE1	1:M:771:GLN:N	2.29	0.59
1:M:1000:LEU:HB3	1:M:1004:LEU:HB3	1.84	0.59
1:A:1323:LEU:HD13	1:A:1326:LYS:HD2	1.84	0.59
1:J:1554:LEU:HD11	1:J:1569:CYS:HB3	1.85	0.59
1:L:1388:GLU:OE1	1:L:1388:GLU:N	2.35	0.59
3:C:468:LYS:HG2	3:C:475:ALA:HB1	1.83	0.59
3:C:498:VAL:HG11	3:C:535:MET:CE	2.32	0.59
3:C:804:VAL:O	3:C:809:PRO:HA	2.03	0.59
4:N:202:ASN:O	4:N:204:LYS:NZ	2.35	0.59
4:N:204:LYS:H	4:N:207:LYS:HZ1	1.51	0.59
4:N:217:SER:O	4:N:221:SER:N	2.27	0.59
1:A:1512:ALA:HA	1:A:1524:SER:HB2	1.83	0.59
1:J:1499:LEU:HB2	1:J:1511:ALA:HB2	1.83	0.59
1:L:1201:VAL:HG22	1:L:1204:ARG:HH11	1.68	0.59
1:E:167:LEU:O	1:E:182:GLN:N	2.36	0.59
1:E:199:ALA:HB1	1:E:216:PHE:CE1	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:214:THR:O	1:E:233:VAL:N	2.36	0.59
1:E:682:CYS:O	1:E:686:ALA:CB	2.49	0.59
3:C:371:LEU:HB2	3:C:380:ALA:HB2	1.85	0.59
3:C:546:ILE:HD13	3:C:580:LEU:HD13	1.85	0.59
3:C:692:GLN:HG3	3:C:693:LEU:HD23	1.85	0.59
1:A:1471:PHE:HA	1:A:1474:GLU:HB3	1.85	0.59
1:A:1605:GLU:O	1:A:1608:THR:OG1	2.20	0.59
4:D:142:ARG:HA	4:D:145:GLU:HG3	1.84	0.59
1:L:1129:ILE:HB	1:L:1130:LYS:NZ	2.18	0.59
4:N:146:GLN:O	4:N:150:ASN:ND2	2.35	0.59
1:E:33:GLU:OE1	1:E:113:TRP:N	2.32	0.58
3:C:608:TYR:CD1	3:C:609:ASP:N	2.69	0.58
3:C:820:LEU:HB3	3:C:852:ARG:NE	2.16	0.58
1:M:669:ALA:O	1:M:672:SER:OG	2.18	0.58
1:M:793:ARG:HH22	1:L:1221:VAL:HA	1.68	0.58
1:K:1554:LEU:HB3	1:K:1566:PHE:HZ	1.66	0.58
1:E:642:HIS:HA	1:E:645:LEU:HD12	1.85	0.58
2:F:898:TRP:O	2:F:899:ILE:HD12	2.03	0.58
3:C:654:TYR:O	3:C:688:LYS:HE2	2.02	0.58
3:C:675:ILE:HA	3:C:676:ARG:CZ	2.33	0.58
3:C:676:ARG:HA	3:C:679:LEU:CG	2.34	0.58
3:C:757:GLU:OE1	3:C:757:GLU:N	2.36	0.58
1:B:941:LYS:O	1:B:944:SER:OG	2.17	0.58
4:D:104:ARG:HH11	4:D:108:GLU:HB3	1.68	0.58
1:J:1523:GLN:O	1:J:1527:LEU:N	2.32	0.58
1:L:1203:ASP:OD1	1:L:1206:TYR:OH	2.21	0.58
1:E:6:PRO:O	1:E:330:GLU:N	2.32	0.58
1:E:658:LEU:HD21	1:E:684:GLN:HB3	1.84	0.58
3:C:424:GLN:NE2	3:C:427:LEU:HD11	2.18	0.58
3:C:724:ASP:HB3	3:C:727:VAL:CG1	2.33	0.58
3:C:749:ARG:HG3	3:C:750:GLU:HG3	1.85	0.58
3:C:762:PHE:HA	3:C:765:GLU:OE2	2.04	0.58
1:A:1402:GLU:HA	1:A:1405:TYR:HD2	1.68	0.58
1:K:1420:ASN:O	1:K:1424:MET:HG2	2.03	0.58
4:N:195:VAL:HB	4:N:223:LYS:HE2	1.83	0.58
1:E:511:THR:HA	1:E:514:TRP:HB2	1.85	0.58
2:F:717:ALA:C	1:M:721:PHE:CZ	2.59	0.58
1:M:898:PRO:HD2	1:M:899:TYR:CZ	2.39	0.58
1:A:1356:HIS:HE1	4:D:114:LEU:HD22	1.68	0.58
1:B:1165:ARG:NH1	1:B:1193:PRO:O	2.35	0.58
1:K:1471:PHE:HD1	1:K:1476:ASP:HB3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1003:GLU:HA	1:M:1007:LEU:HD21	1.85	0.58
1:A:1290:TYR:HB3	1:A:1299:LEU:HD23	1.85	0.58
1:B:921:TYR:O	1:B:925:GLN:N	2.35	0.58
1:E:284:LEU:O	1:E:293:ILE:N	2.37	0.58
1:E:661:GLU:OE2	1:E:690:HIS:ND1	2.37	0.58
3:C:597:ASP:N	3:C:625:ARG:HE	2.01	0.58
3:C:662:ASP:HB3	3:C:665:GLU:HG2	1.84	0.58
1:M:742:LYS:H	1:M:742:LYS:HD2	1.68	0.58
1:B:1208:GLU:HB2	1:B:1210:MET:HG2	1.85	0.58
1:E:478:VAL:O	1:E:482:ALA:N	2.35	0.58
1:E:521:VAL:HG11	1:E:536:LEU:HD12	1.84	0.58
2:F:854:ILE:HD13	2:F:935:LEU:HD12	1.84	0.58
3:C:581:GLN:NE2	3:C:604:MET:HA	2.19	0.58
1:K:1534:TYR:CZ	4:N:164:GLN:HB2	2.38	0.58
1:L:995:PHE:HA	1:L:1000:LEU:HB2	1.85	0.58
1:L:1231:LEU:HB3	1:L:1236:GLU:HB3	1.85	0.58
1:L:1322:ILE:O	1:L:1325:SER:OG	2.21	0.58
1:H:828:VAL:O	1:H:832:LEU:HG	2.03	0.58
1:E:228:LEU:N	1:E:248:VAL:O	2.34	0.58
1:E:513:ASP:HA	1:E:516:PHE:CD2	2.39	0.58
1:E:650:TRP:O	1:E:654:TYR:HD2	1.87	0.58
3:C:514:TRP:HA	3:C:514:TRP:CE3	2.37	0.58
3:C:760:LYS:HA	3:C:763:LEU:HG	1.86	0.58
1:M:638:ARG:HA	1:M:641:VAL:HG12	1.85	0.58
1:A:1306:ALA:HA	1:A:1309:LEU:HD21	1.85	0.58
1:A:1410:PHE:O	1:A:1414:PHE:N	2.36	0.58
1:A:1492:ASN:HD22	1:A:1495:LEU:HD22	1.67	0.58
1:A:1502:HIS:HE1	1:A:1504:LEU:HD12	1.69	0.58
1:K:1382:PRO:HB3	1:K:1410:PHE:HZ	1.69	0.58
4:I:158:ASP:O	4:I:162:TYR:N	2.36	0.58
1:E:83:LYS:HE3	1:E:111:TRP:CE3	2.36	0.58
1:E:447:LEU:HA	1:E:450:LYS:HD2	1.85	0.58
1:E:614:ALA:O	1:E:618:GLU:HG3	2.03	0.58
3:C:365:ALA:O	3:C:369:ASN:ND2	2.37	0.58
3:C:809:PRO:HB2	3:C:837:ARG:NH2	2.19	0.58
1:M:968:ARG:NH2	1:M:972:ASP:OD1	2.36	0.58
1:A:1355:ALA:HB1	1:A:1357:LEU:HG	1.86	0.58
1:A:1460:ASN:OD1	1:A:1461:LYS:N	2.36	0.58
1:L:1324:TYR:O	1:L:1328:LYS:N	2.37	0.58
1:H:642:HIS:O	1:H:646:LEU:N	2.35	0.58
1:E:227:LYS:HA	1:E:249:ASP:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:304:PHE:HE2	1:E:320:ARG:HB2	1.68	0.58
3:C:459:CYS:HB3	3:C:482:ALA:HB1	1.86	0.58
3:C:546:ILE:HG23	3:C:549:ILE:HD12	1.85	0.58
3:C:556:TYR:CB	3:C:558:LEU:HD13	2.32	0.58
1:M:689:TYR:HE2	1:M:698:LEU:HD21	1.69	0.58
1:M:778:CYS:O	1:M:782:ASP:N	2.37	0.58
1:M:1047:LEU:HG	1:M:1048:ASP:H	1.69	0.58
1:A:1411:TYR:HD2	1:A:1419:LEU:HD13	1.69	0.58
1:J:1499:LEU:HB3	1:J:1507:PHE:O	2.04	0.58
1:J:1596:MET:O	1:J:1600:ILE:HG13	2.04	0.58
1:L:1058:ILE:O	1:L:1061:SER:OG	2.16	0.58
1:E:676:ARG:NE	1:E:705:PHE:HA	2.16	0.57
3:C:599:ILE:CG2	3:C:604:MET:HB2	2.31	0.57
3:C:664:LEU:O	3:C:667:LEU:HG	2.04	0.57
1:M:909:CYS:HA	1:M:912:ARG:HD3	1.86	0.57
1:B:855:LEU:HD12	1:B:882:ILE:HB	1.86	0.57
1:B:1067:GLU:N	1:B:1067:GLU:OE1	2.34	0.57
1:L:1171:THR:O	1:L:1174:ILE:HG12	2.04	0.57
1:L:1235:GLY:HA2	1:L:1237:TYR:CZ	2.38	0.57
1:H:667:LEU:O	1:H:671:LEU:HG	2.04	0.57
1:H:754:TYR:HE2	1:H:759:VAL:HG21	1.68	0.57
1:H:830:LYS:HE3	1:H:834:LEU:HD21	1.86	0.57
4:N:195:VAL:HG21	4:N:223:LYS:HG2	1.86	0.57
1:E:379:GLU:O	1:E:383:VAL:HG22	2.04	0.57
2:F:747:LEU:H	1:M:720:ASN:HA	1.69	0.57
3:C:451:TRP:CD1	3:C:456:LYS:HD2	2.38	0.57
3:C:664:LEU:H	3:C:664:LEU:CD1	2.17	0.57
3:C:689:TYR:CE1	3:C:693:LEU:HD21	2.39	0.57
1:M:676:ARG:HA	1:M:679:LEU:HB2	1.86	0.57
1:M:856:LYS:HD2	1:M:856:LYS:N	2.18	0.57
1:A:1604:LYS:NZ	4:D:213:SER:OG	2.26	0.57
1:J:1540:TYR:HA	1:J:1543:GLU:HG3	1.85	0.57
1:L:1438:TYR:HA	1:L:1441:LYS:HE2	1.85	0.57
1:E:459:CYS:HB3	1:E:481:ARG:HB3	1.87	0.57
1:E:484:VAL:HG12	1:E:504:TYR:CE2	2.39	0.57
2:F:867:LYS:NZ	2:F:937:ASN:O	2.37	0.57
3:C:393:ARG:NE	3:C:427:LEU:HD12	2.18	0.57
1:M:761:ASN:O	1:M:764:LYS:HG2	2.04	0.57
1:B:1242:ASP:HA	1:B:1245:ARG:NE	2.19	0.57
4:D:146:GLN:O	4:D:146:GLN:NE2	2.38	0.57
1:E:433:LEU:HB3	1:E:437:ARG:CZ	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:490:GLN:HB3	3:C:513:ASP:CB	2.32	0.57
3:C:511:THR:HG23	3:C:543:LEU:HD12	1.87	0.57
1:M:1037:ARG:HB2	1:M:1039:ARG:HG2	1.84	0.57
1:A:1377:THR:HG23	1:A:1381:HIS:HD2	1.69	0.57
1:B:829:ILE:HG23	1:B:830:LYS:H	1.69	0.57
4:O:108:GLU:OE1	4:O:112:LYS:NZ	2.28	0.57
1:K:1434:ARG:HA	1:K:1437:ASN:HD22	1.68	0.57
1:H:784:VAL:HA	1:H:787:LEU:HB3	1.85	0.57
1:E:221:ARG:HA	1:E:226:GLY:HA2	1.85	0.57
2:F:746:ALA:HB1	1:M:721:PHE:CA	2.33	0.57
3:C:755:ASP:O	3:C:758:ARG:HG2	2.05	0.57
1:A:1421:ASP:N	1:A:1421:ASP:OD1	2.34	0.57
4:D:126:GLN:HE21	4:D:130:GLU:HG3	1.68	0.57
1:H:779:ASP:OD1	1:H:779:ASP:N	2.37	0.57
1:E:159:ASP:N	1:E:164:TRP:O	2.37	0.57
2:F:747:LEU:CA	1:M:720:ASN:HA	2.33	0.57
3:C:519:ARG:HG2	3:C:523:ARG:NH2	2.18	0.57
3:C:777:VAL:HA	3:C:780:ARG:HB2	1.86	0.57
1:M:566:LEU:O	1:M:570:LEU:HG	2.04	0.57
1:B:962:GLU:HG2	1:B:967:ARG:NH1	2.20	0.57
4:D:207:LYS:HG3	4:D:211:ASP:HA	1.87	0.57
1:K:1411:TYR:O	1:K:1415:LYS:N	2.38	0.57
1:L:1085:LEU:HD13	1:L:1095:ALA:HB2	1.86	0.57
1:L:1217:LEU:HA	1:L:1220:ASN:HD21	1.68	0.57
1:L:1224:PHE:HB3	1:L:1247:ALA:HB2	1.85	0.57
4:I:209:CYS:SG	4:I:210:LYS:HG2	2.43	0.57
1:E:346:ASP:HB3	1:E:350:ARG:HH21	1.70	0.57
1:E:605:PHE:HD1	1:E:610:ARG:HG2	1.68	0.57
1:E:696:GLN:NE2	1:E:726:ASP:O	2.29	0.57
3:C:592:ALA:C	3:C:594:GLN:H	2.08	0.57
3:C:808:ASN:ND2	3:C:811:ARG:HH21	2.03	0.57
1:M:654:TYR:HB3	1:M:688:LYS:HE2	1.86	0.57
1:M:744:VAL:O	1:M:747:ILE:HG12	2.04	0.57
1:M:949:ARG:HA	1:M:949:ARG:CZ	2.34	0.57
1:A:1298:GLU:OE1	1:A:1298:GLU:N	2.31	0.57
1:B:1084:VAL:HA	1:B:1087:GLU:HG3	1.85	0.57
1:J:1577:LEU:HD12	1:J:1578:ARG:H	1.70	0.57
1:K:1415:LYS:HB3	1:K:1418:LEU:HD13	1.86	0.57
1:L:1378:MET:HE2	1:L:1386:TRP:HA	1.86	0.57
1:E:70:SER:HB3	1:E:111:TRP:CH2	2.40	0.57
1:E:303:ILE:HA	1:E:319:ASN:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:349:LEU:HD21	1:E:363:LEU:HB3	1.85	0.57
3:C:510:TYR:HD2	3:C:513:ASP:H	1.53	0.57
3:C:654:TYR:O	3:C:657:SER:OG	2.21	0.57
1:M:636:ILE:O	1:M:640:VAL:HG23	2.04	0.57
1:M:760:LYS:HA	1:M:763:LEU:HD12	1.86	0.57
1:M:939:LEU:O	1:M:942:SER:OG	2.14	0.57
1:M:1000:LEU:HB2	1:M:1005:ILE:HG13	1.87	0.57
1:A:1421:ASP:O	1:A:1425:VAL:HG23	2.04	0.57
1:B:1150:TRP:HA	1:B:1153:LEU:HD12	1.87	0.57
1:J:1477:TYR:O	1:J:1481:ARG:N	2.30	0.57
1:J:1532:SER:HB2	1:J:1536:ASP:HB2	1.86	0.57
1:L:1350:ARG:NH1	1:L:1350:ARG:HA	2.20	0.57
4:I:204:LYS:HG2	4:I:207:LYS:HE2	1.87	0.57
1:E:232:GLU:OE1	1:E:243:PHE:N	2.34	0.57
1:E:488:VAL:HA	1:E:491:CYS:SG	2.45	0.57
2:F:717:ALA:HB1	1:M:721:PHE:CE1	2.36	0.57
3:C:406:ALA:HA	3:C:413:PRO:HD2	1.87	0.57
3:C:769:THR:H	3:C:771:GLN:HE22	1.53	0.57
3:C:809:PRO:O	3:C:837:ARG:NH1	2.37	0.57
1:K:1615:ALA:O	1:K:1618:SER:OG	2.17	0.57
1:E:261:PRO:HA	1:E:277:THR:HA	1.87	0.57
1:E:281:TYR:CE1	1:E:297:ARG:HB2	2.39	0.57
1:E:597:ASP:HA	1:E:600:LEU:HD12	1.87	0.57
1:E:695:THR:OG1	1:E:696:GLN:N	2.38	0.57
3:C:452:LEU:HD13	3:C:478:VAL:HG21	1.85	0.57
3:C:490:GLN:HG2	3:C:504:TYR:CD2	2.40	0.57
3:C:719:VAL:HA	3:C:722:SER:HB2	1.87	0.57
4:D:111:ARG:O	4:D:115:GLN:NE2	2.37	0.57
1:L:1310:GLU:HG2	1:L:1311:ARG:HG2	1.87	0.57
3:C:740:GLN:O	3:C:744:VAL:HG23	2.05	0.56
3:C:772:LEU:HA	3:C:775:ILE:HG23	1.86	0.56
1:M:637:LYS:HB3	1:M:638:ARG:NH2	2.19	0.56
1:A:1330:GLN:OE1	1:A:1330:GLN:N	2.38	0.56
1:A:1401:VAL:HA	1:A:1404:TYR:CD2	2.40	0.56
1:J:1574:TYR:OH	1:J:1598:TYR:O	2.23	0.56
1:K:1615:ALA:O	1:K:1619:LEU:HG	2.05	0.56
1:L:1301:THR:HA	1:L:1304:GLU:HG2	1.86	0.56
3:C:486:ASN:HA	3:C:489:ILE:HG22	1.85	0.56
3:C:670:MET:CE	3:C:679:LEU:HD23	2.35	0.56
1:B:874:ALA:O	1:B:878:ALA:N	2.34	0.56
1:B:1115:GLN:HA	1:B:1120:MET:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:125:ASN:O	1:E:144:ARG:N	2.29	0.56
1:E:699:ILE:HG23	1:E:711:LEU:HD22	1.86	0.56
3:C:491:CYS:HA	3:C:516:PHE:CD2	2.40	0.56
3:C:518:LEU:O	3:C:522:MET:N	2.37	0.56
3:C:712:PHE:CE1	3:C:731:TYR:O	2.59	0.56
3:C:747:ILE:O	3:C:751:SER:N	2.39	0.56
3:C:821:ASP:HB3	3:C:852:ARG:NH2	2.21	0.56
3:C:846:VAL:HG12	3:C:855:LEU:HD11	1.87	0.56
1:M:739:GLY:O	1:M:742:LYS:NZ	2.31	0.56
1:A:1339:PHE:HB3	1:A:1342:ARG:HB2	1.88	0.56
1:A:1457:ASN:HA	1:A:1487:TYR:OH	2.05	0.56
1:A:1471:PHE:HB3	1:A:1480:LEU:HD12	1.85	0.56
1:A:1568:ALA:HA	1:A:1571:PHE:HB3	1.85	0.56
1:B:1021:HIS:HB2	1:B:1025:GLN:CD	2.25	0.56
1:H:756:PRO:HA	1:H:759:VAL:HG22	1.86	0.56
1:H:763:LEU:HD13	1:H:774:LEU:HB3	1.86	0.56
1:E:73:MET:HA	1:E:80:ILE:HA	1.87	0.56
1:E:474:LEU:O	1:E:477:SER:OG	2.14	0.56
1:E:490:GLN:HA	1:E:517:LEU:HD21	1.86	0.56
1:E:589:LEU:HA	1:E:596:ALA:HB2	1.88	0.56
1:E:668:ARG:HB3	1:E:698:LEU:HD21	1.88	0.56
3:C:670:MET:O	3:C:674:ASN:N	2.39	0.56
3:C:683:VAL:O	3:C:686:ALA:HB3	2.06	0.56
3:C:768:LEU:HD11	3:C:771:GLN:HG3	1.88	0.56
1:M:568:ASP:HA	1:M:571:LYS:HE3	1.88	0.56
1:B:936:GLU:OE1	1:B:936:GLU:N	2.28	0.56
1:H:649:GLU:O	1:H:653:ASN:ND2	2.30	0.56
3:C:659:SER:HA	3:C:660:VAL:HB	1.87	0.56
3:C:769:THR:H	3:C:771:GLN:NE2	2.03	0.56
1:M:651:LEU:HD12	1:M:654:TYR:HB2	1.86	0.56
1:M:815:VAL:O	1:M:819:LEU:HG	2.05	0.56
1:M:1037:ARG:HD2	1:M:1039:ARG:HE	1.71	0.56
1:A:1411:TYR:HA	1:A:1415:LYS:H	1.69	0.56
1:A:1518:ASN:HA	1:B:1101:ARG:HH22	1.70	0.56
1:B:1121:VAL:O	1:B:1125:ILE:HG13	2.05	0.56
1:J:1557:PHE:HA	1:J:1560:GLU:OE2	2.06	0.56
1:K:1585:THR:HB	1:K:1588:ARG:HH21	1.70	0.56
1:E:231:ILE:HB	1:E:245:LYS:HD3	1.87	0.56
1:E:259:ASP:HB2	1:E:279:TYR:CD2	2.41	0.56
1:E:368:PHE:HB3	1:E:372:PHE:CE2	2.41	0.56
1:E:487:LYS:HA	1:E:513:ASP:OD2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:541:GLU:HA	1:E:574:ARG:HB3	1.87	0.56
3:C:553:PHE:CD2	3:C:562:CYS:HB2	2.40	0.56
1:M:584:LEU:HA	1:M:587:MET:HE2	1.87	0.56
1:A:1298:GLU:O	1:A:1301:THR:OG1	2.23	0.56
4:O:130:GLU:O	4:O:134:LYS:HG2	2.05	0.56
1:J:1579:PRO:HD2	1:K:1607:LEU:HD22	1.86	0.56
1:L:1112:ALA:HA	1:L:1115:GLN:HG2	1.88	0.56
4:N:151:LYS:O	4:N:155:ARG:HG2	2.04	0.56
1:E:616:LEU:HD23	1:E:619:LYS:HZ1	1.71	0.56
1:E:648:PRO:HB2	1:E:653:ASN:ND2	2.21	0.56
1:E:677:GLN:HG2	1:E:678:ASN:OD1	2.04	0.56
2:F:835:GLN:H	2:F:835:GLN:CD	2.08	0.56
3:C:439:VAL:HG13	3:C:448:LEU:HB2	1.86	0.56
3:C:755:ASP:HB3	3:C:758:ARG:NE	2.20	0.56
3:C:854:ARG:HG3	3:C:856:LYS:NZ	2.20	0.56
1:A:1463:VAL:O	1:A:1466:SER:OG	2.23	0.56
1:B:962:GLU:N	1:B:967:ARG:HH11	2.03	0.56
1:B:1245:ARG:O	1:B:1248:ASN:ND2	2.36	0.56
1:L:1431:ASP:OD2	1:L:1434:ARG:N	2.35	0.56
1:H:821:ASP:OD2	1:H:852:ARG:NH2	2.38	0.56
1:E:371:LEU:CB	1:E:380:ALA:HB2	2.35	0.56
3:C:468:LYS:HE3	3:C:492:PHE:HB2	1.88	0.56
3:C:517:LEU:O	3:C:521:VAL:HG23	2.06	0.56
3:C:688:LYS:HA	3:C:691:GLU:OE2	2.05	0.56
3:C:712:PHE:O	3:C:731:TYR:HE1	1.88	0.56
3:C:725:PRO:HA	3:C:753:CYS:O	2.06	0.56
3:C:809:PRO:HB2	3:C:837:ARG:HH22	1.69	0.56
1:M:1024:LEU:O	1:M:1028:LEU:N	2.37	0.56
1:M:1042:GLU:HB2	1:M:1046:ARG:NH2	2.21	0.56
1:M:1054:ASP:OD1	1:M:1054:ASP:N	2.38	0.56
1:A:1477:TYR:O	1:A:1481:ARG:N	2.33	0.56
1:H:808:ASN:HD22	1:H:811:ARG:CZ	2.19	0.56
1:E:538:GLN:NE2	1:E:568:ASP:HB3	2.20	0.56
3:C:514:TRP:HE1	3:C:549:ILE:CD1	2.18	0.56
3:C:783:PHE:CD1	3:C:783:PHE:N	2.74	0.56
1:M:864:ALA:O	1:M:867:HIS:HB3	2.06	0.56
1:B:1020:GLU:OE1	1:B:1022:ARG:NH1	2.39	0.56
4:O:107:ARG:HB3	4:O:111:ARG:HH21	1.71	0.56
1:J:1557:PHE:CZ	1:J:1565:CYS:HB2	2.40	0.56
1:K:1586:ALA:HA	1:K:1591:ILE:HG23	1.86	0.56
1:L:1201:VAL:HA	1:L:1204:ARG:HD3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1357:LEU:O	1:L:1361:LEU:HG	2.05	0.56
1:E:33:GLU:HB2	1:E:37:PHE:HZ	1.70	0.56
3:C:622:LEU:H	3:C:626:ALA:HB2	1.71	0.56
1:A:1251:ARG:NE	1:A:1255:GLU:OE2	2.38	0.56
1:B:1223:ASN:H	1:B:1227:LEU:HD23	1.71	0.56
4:O:106:TRP:O	4:O:110:GLN:HG3	2.06	0.56
1:H:637:LYS:HG3	1:H:638:ARG:HH11	1.69	0.56
3:C:702:PHE:CE2	3:C:707:SER:HA	2.41	0.55
3:C:772:LEU:N	3:C:773:PRO:HD3	2.21	0.55
1:B:866:ILE:HG13	1:B:867:HIS:N	2.21	0.55
1:J:1575:ASP:HB3	4:I:210:LYS:HB3	1.87	0.55
1:L:947:LEU:HD21	1:L:955:LEU:HB3	1.88	0.55
1:L:1054:ASP:N	1:L:1054:ASP:OD1	2.35	0.55
1:H:675:ILE:HB	1:H:677:GLN:HG3	1.88	0.55
1:E:338:ILE:O	1:E:344:ASN:N	2.36	0.55
1:E:614:ALA:HB3	1:E:638:ARG:NH1	2.19	0.55
3:C:566:LEU:CB	3:C:580:LEU:HD21	2.29	0.55
3:C:608:TYR:CE2	3:C:613:ILE:HG22	2.41	0.55
3:C:610:ARG:CG	3:C:632:ASP:HB3	2.36	0.55
1:M:599:ILE:HG22	1:M:604:MET:HB2	1.87	0.55
1:M:681:ILE:HD12	1:M:684:GLN:HB2	1.87	0.55
1:J:1539:GLN:O	1:J:1542:SER:OG	2.20	0.55
4:N:161:PHE:O	4:N:164:GLN:NE2	2.35	0.55
1:E:543:LEU:HD12	1:E:546:ILE:HG12	1.88	0.55
3:C:440:LEU:HA	3:C:445:LYS:HA	1.89	0.55
3:C:729:PHE:HB2	3:C:758:ARG:NH2	2.21	0.55
3:C:760:LYS:HD2	3:C:783:PHE:CD2	2.40	0.55
1:B:820:LEU:HD22	1:B:848:GLU:HG3	1.86	0.55
1:L:1044:ILE:HG21	1:L:1071:ILE:HD11	1.88	0.55
1:E:398:ILE:HD12	1:E:434:GLU:OE1	2.07	0.55
1:E:637:LYS:HA	1:E:640:VAL:HG22	1.88	0.55
3:C:395:PRO:HA	3:C:398:ILE:HG22	1.88	0.55
3:C:695:THR:O	3:C:698:LEU:HB3	2.05	0.55
3:C:712:PHE:O	3:C:731:TYR:CE1	2.59	0.55
1:M:1042:GLU:HA	1:M:1045:ASN:ND2	2.19	0.55
1:A:1585:THR:O	1:A:1589:HIS:ND1	2.33	0.55
1:A:1586:ALA:O	1:A:1590:ASN:N	2.39	0.55
1:B:874:ALA:HA	1:B:877:ASN:HB3	1.86	0.55
1:B:979:LEU:HD21	1:B:1011:ILE:HG13	1.87	0.55
1:B:1214:ALA:HA	1:B:1217:LEU:HD12	1.89	0.55
4:O:124:THR:O	4:O:127:GLU:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:777:VAL:HA	1:H:780:ARG:HB3	1.87	0.55
1:E:83:LYS:CG	1:E:111:TRP:CE2	2.90	0.55
1:E:364:PHE:O	1:E:368:PHE:HD2	1.89	0.55
1:E:479:TYR:HB3	1:E:485:PRO:HD2	1.88	0.55
3:C:726:ASP:HA	3:C:758:ARG:HH12	1.72	0.55
3:C:804:VAL:HG23	3:C:811:ARG:HG3	1.89	0.55
1:M:761:ASN:O	1:M:765:GLU:HG2	2.06	0.55
1:A:1372:ASP:OD1	1:A:1372:ASP:N	2.38	0.55
1:B:1005:ILE:O	1:B:1008:LEU:N	2.39	0.55
1:E:12:HIS:N	1:E:324:VAL:O	2.27	0.55
1:E:198:ALA:O	1:E:219:ALA:N	2.32	0.55
1:E:200:SER:N	1:E:217:CYS:O	2.34	0.55
1:E:335:ILE:HG23	1:E:348:ALA:HB1	1.88	0.55
1:E:350:ARG:HB3	1:E:354:ARG:CZ	2.36	0.55
3:C:783:PHE:N	3:C:783:PHE:HD1	2.03	0.55
1:M:752:ASN:HA	1:M:754:TYR:CE1	2.41	0.55
1:M:844:GLU:N	1:M:844:GLU:OE1	2.39	0.55
1:L:947:LEU:HB3	1:L:956:TRP:CE2	2.42	0.55
4:N:192:TRP:HB3	4:N:224:GLN:HA	1.87	0.55
1:E:368:PHE:CG	1:E:392:LEU:HG	2.41	0.55
1:E:508:VAL:HG22	1:E:514:TRP:HE1	1.72	0.55
3:C:802:ILE:O	3:C:805:GLN:HB3	2.05	0.55
1:M:655:PHE:HD1	1:M:658:LEU:HD23	1.71	0.55
1:M:658:LEU:HD13	1:M:688:LYS:HG2	1.88	0.55
1:B:1244:ALA:HA	1:B:1247:ALA:HB3	1.89	0.55
1:L:1205:CYS:HB2	1:L:1214:ALA:HB2	1.88	0.55
1:L:1228:ALA:HA	1:L:1231:LEU:HD12	1.88	0.55
1:L:1299:LEU:O	1:L:1303:LEU:HG	2.07	0.55
1:L:1439:PHE:O	1:L:1443:LYS:N	2.39	0.55
1:H:689:TYR:O	1:H:693:LEU:N	2.25	0.55
1:E:697:SER:O	1:E:701:LEU:HG	2.07	0.55
3:C:465:ASP:OD2	3:C:488:VAL:HB	2.06	0.55
1:M:702:PHE:HB2	1:M:711:LEU:HD13	1.88	0.55
1:A:1378:MET:HE2	1:A:1386:TRP:CD1	2.42	0.55
1:B:819:LEU:O	1:B:822:VAL:HG12	2.06	0.55
1:B:902:SER:OG	1:B:923:ARG:NH1	2.40	0.55
1:B:1198:ILE:HG21	1:B:1221:VAL:HG11	1.87	0.55
1:L:1084:VAL:O	1:L:1088:HIS:CB	2.46	0.55
1:E:490:GLN:NE2	1:E:509:GLY:O	2.39	0.55
1:E:528:GLN:HB3	1:E:561:GLN:HA	1.88	0.55
2:F:746:ALA:CA	1:M:721:PHE:HA	2.29	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:775:ILE:HG13	3:C:776:ILE:HG13	1.87	0.55
1:A:1332:MET:O	1:A:1336:LEU:HG	2.07	0.55
1:B:859:LEU:HA	1:B:862:LEU:HD12	1.87	0.55
1:B:1106:ALA:O	1:B:1109:SER:OG	2.17	0.55
4:D:112:LYS:HA	4:D:115:GLN:HG2	1.88	0.55
1:K:1475:GLU:HA	1:K:1502:HIS:HE1	1.71	0.55
1:L:1251:ARG:HE	1:L:1254:LYS:HZ1	1.54	0.55
3:C:397:THR:HG22	3:C:400:ARG:NH2	2.21	0.55
1:M:795:ASN:OD1	1:M:796:LEU:N	2.40	0.55
1:M:949:ARG:HA	1:M:949:ARG:NH1	2.22	0.55
1:B:970:LEU:O	1:B:974:VAL:HG13	2.07	0.55
1:B:1160:ALA:HA	1:B:1163:LYS:HD2	1.87	0.55
1:K:1514:LEU:O	1:K:1518:ASN:N	2.40	0.55
1:E:375:GLY:HA2	1:E:377:TYR:CE2	2.42	0.54
1:E:395:PRO:HB2	1:E:399:ARG:HE	1.72	0.54
1:E:468:LYS:HD2	1:E:479:TYR:OH	2.05	0.54
1:E:579:PRO:O	1:E:583:ARG:HG3	2.08	0.54
1:E:670:MET:SD	1:E:670:MET:N	2.80	0.54
3:C:502:VAL:HB	3:C:536:LEU:N	2.23	0.54
3:C:642:HIS:HA	3:C:645:LEU:HD12	1.89	0.54
1:M:567:LEU:HA	1:M:570:LEU:HD12	1.89	0.54
1:M:645:LEU:HD11	1:H:742:LYS:HG3	1.87	0.54
1:M:915:HIS:CD2	1:M:915:HIS:H	2.24	0.54
1:B:878:ALA:HA	1:B:881:LYS:HE3	1.87	0.54
1:B:1126:ASP:HA	1:B:1129:ILE:HD12	1.90	0.54
1:B:1249:SER:HB2	1:B:1251:ARG:HD3	1.90	0.54
1:K:1446:PRO:HG2	4:N:139:TRP:HZ2	1.71	0.54
1:L:1003:GLU:N	1:L:1006:GLU:OE1	2.32	0.54
1:L:1175:PHE:HD1	1:L:1201:VAL:HG13	1.72	0.54
1:E:157:ARG:O	1:E:166:LEU:N	2.38	0.54
3:C:393:ARG:HG3	3:C:417:TYR:OH	2.07	0.54
3:C:848:GLU:OE2	3:C:852:ARG:NH1	2.40	0.54
1:A:1451:TYR:O	1:A:1455:VAL:HG22	2.07	0.54
1:A:1607:LEU:HA	1:A:1610:VAL:HG12	1.90	0.54
1:B:971:ILE:HA	1:B:974:VAL:HG22	1.88	0.54
1:E:657:SER:HB2	1:E:685:VAL:HG21	1.89	0.54
3:C:680:GLN:NE2	3:C:681:ILE:HG12	2.22	0.54
1:M:794:ASN:OD1	1:M:795:ASN:N	2.40	0.54
1:M:865:ARG:HG2	1:M:870:CYS:SG	2.48	0.54
1:A:1526:GLU:HA	1:A:1529:LYS:HD3	1.89	0.54
4:D:128:TRP:HD1	4:D:131:LYS:HZ2	1.53	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:192:TRP:HA	4:D:195:VAL:HG12	1.90	0.54
1:L:971:ILE:HA	1:L:974:VAL:HG22	1.88	0.54
1:L:1388:GLU:HG2	1:L:1389:GLY:N	2.22	0.54
1:E:91:PHE:HA	1:E:99:MET:H	1.72	0.54
1:E:519:ARG:HE	1:E:548:GLN:HG2	1.73	0.54
3:C:505:ALA:HB3	3:C:536:LEU:CD1	2.29	0.54
3:C:762:PHE:HA	3:C:765:GLU:CG	2.37	0.54
4:D:189:GLY:O	4:D:193:GLU:N	2.30	0.54
1:K:1547:THR:HG23	1:K:1548:GLU:HG3	1.90	0.54
1:H:852:ARG:HB3	1:H:854:ARG:HH11	1.71	0.54
3:C:449:GLU:HB3	3:C:453:LYS:NZ	2.22	0.54
3:C:490:GLN:OE1	3:C:513:ASP:HB2	2.08	0.54
3:C:573:ASN:HA	3:C:607:HIS:HE1	1.72	0.54
3:C:746:ARG:O	3:C:749:ARG:HG2	2.07	0.54
3:C:849:VAL:HG21	3:C:855:LEU:HA	1.89	0.54
1:M:821:ASP:HB2	1:M:852:ARG:NH2	2.21	0.54
1:A:1350:ARG:O	1:A:1354:GLN:HG2	2.07	0.54
1:A:1419:LEU:O	1:A:1423:LEU:HG	2.07	0.54
1:B:826:GLU:H	1:B:826:GLU:CD	2.11	0.54
1:B:841:SER:OG	1:B:842:THR:N	2.40	0.54
1:B:891:GLU:HG2	1:B:895:ARG:NH1	2.22	0.54
1:B:1224:PHE:HA	1:B:1227:LEU:HG	1.90	0.54
4:D:192:TRP:CG	4:D:222:LEU:HB2	2.42	0.54
4:O:125:GLU:HG3	4:O:129:ARG:HH22	1.73	0.54
1:L:1122:LYS:HA	1:L:1125:ILE:HD12	1.90	0.54
1:H:768:LEU:HD23	1:H:771:GLN:HA	1.90	0.54
1:E:35:ASP:OD1	1:E:35:ASP:N	2.40	0.54
1:E:288:GLU:OE1	1:E:354:ARG:NH1	2.40	0.54
1:E:463:LEU:O	1:E:467:VAL:HG23	2.08	0.54
1:E:463:LEU:HB2	1:E:478:VAL:HG11	1.88	0.54
1:E:519:ARG:HB3	1:E:523:ARG:NH1	2.22	0.54
1:E:711:LEU:O	1:E:715:LEU:HG	2.06	0.54
3:C:582:THR:HA	3:C:608:TYR:CE2	2.42	0.54
3:C:685:VAL:HG12	3:C:688:LYS:HD3	1.90	0.54
1:M:689:TYR:CZ	1:M:693:LEU:HB2	2.42	0.54
1:A:1526:GLU:O	1:A:1530:LYS:NZ	2.21	0.54
1:K:1381:HIS:HB2	1:K:1385:ALA:HB3	1.88	0.54
1:L:1344:ASN:ND2	1:L:1346:PRO:HD2	2.22	0.54
1:L:1375:ILE:HA	1:L:1391:PHE:HZ	1.73	0.54
1:E:448:LEU:HA	1:E:451:TRP:CD1	2.43	0.54
1:E:465:ASP:OD1	1:E:488:VAL:HG11	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:388:PRO:O	3:C:389:LYS:HG3	2.08	0.54
3:C:464:GLY:O	3:C:467:VAL:HG23	2.08	0.54
3:C:679:LEU:O	3:C:683:VAL:HG23	2.07	0.54
3:C:791:LEU:HD23	3:C:796:LEU:HG	1.90	0.54
1:M:888:ASN:ND2	1:M:889:ASN:H	2.04	0.54
1:M:962:GLU:OE2	1:M:967:ARG:NH2	2.41	0.54
1:A:1296:PHE:O	1:A:1300:ILE:HG23	2.08	0.54
4:O:113:ARG:HE	4:O:117:LEU:HG	1.73	0.54
1:K:1504:LEU:HD21	4:N:154:ASN:HB3	1.88	0.54
1:L:1155:LYS:HA	1:L:1158:GLN:HB3	1.88	0.54
1:E:80:ILE:N	1:E:91:PHE:O	2.29	0.54
1:E:371:LEU:O	1:E:376:ASN:N	2.38	0.54
2:F:891:LEU:HD13	2:F:899:ILE:HB	1.90	0.54
3:C:445:LYS:HG2	3:C:449:GLU:OE1	2.07	0.54
3:C:495:THR:HA	3:C:532:PHE:CZ	2.42	0.54
1:A:1616:SER:O	1:A:1620:ARG:HG2	2.08	0.54
4:D:122:LYS:O	4:D:125:GLU:HG2	2.07	0.54
4:D:147:VAL:HA	4:D:150:ASN:HD21	1.73	0.54
1:K:1561:GLU:OE2	1:K:1563:ARG:NH2	2.41	0.54
1:L:1030:LEU:O	1:L:1034:LYS:HG2	2.08	0.54
3:C:510:TYR:CD2	3:C:513:ASP:N	2.75	0.54
3:C:608:TYR:HD1	3:C:609:ASP:H	1.48	0.54
3:C:637:LYS:O	3:C:641:VAL:HG13	2.08	0.54
1:A:1251:ARG:HA	1:A:1254:LYS:NZ	2.22	0.54
1:B:920:ALA:O	1:B:924:GLY:N	2.40	0.54
1:B:1171:THR:OG1	1:B:1172:GLU:OE2	2.22	0.54
1:H:724:ASP:HB3	1:H:727:VAL:HG22	1.90	0.54
1:E:522:MET:HG3	1:E:549:ILE:HG23	1.89	0.54
3:C:749:ARG:HG3	3:C:750:GLU:N	2.23	0.54
1:M:871:GLU:HA	1:M:876:HIS:HE2	1.72	0.54
1:M:1007:LEU:HA	1:M:1010:LYS:HZ2	1.73	0.54
1:M:1010:LYS:O	1:M:1013:LEU:HG	2.08	0.54
1:A:1297:GLU:O	1:A:1300:ILE:HG12	2.07	0.54
1:B:1218:TYR:HA	1:B:1223:ASN:ND2	2.23	0.54
4:D:128:TRP:O	4:D:131:LYS:HG2	2.07	0.54
1:K:1620:ARG:NE	1:K:1620:ARG:HA	2.23	0.54
1:H:675:ILE:HB	1:H:677:GLN:HE21	1.74	0.54
1:E:506:LYS:NZ	1:E:539:ASP:HB3	2.22	0.53
3:C:533:ALA:O	3:C:537:VAL:HG22	2.08	0.53
1:A:1377:THR:HG23	1:A:1381:HIS:CD2	2.44	0.53
1:A:1441:LYS:O	1:A:1443:LYS:NZ	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1215:LYS:NZ	1:B:1216:LEU:HG	2.23	0.53
4:D:210:LYS:HD2	4:D:212:VAL:HG12	1.88	0.53
1:L:1156:TYR:HD1	1:L:1159:MET:HE3	1.72	0.53
1:L:1333:ARG:NE	1:L:1337:GLU:OE2	2.41	0.53
1:E:309:HIS:O	1:E:313:ALA:N	2.41	0.53
3:C:398:ILE:HD13	3:C:417:TYR:CZ	2.43	0.53
3:C:457:LEU:HD22	3:C:463:LEU:HD13	1.90	0.53
3:C:735:ALA:O	3:C:739:GLY:HA2	2.08	0.53
1:B:872:GLU:O	1:B:875:THR:OG1	2.16	0.53
1:K:1442:VAL:HG13	1:K:1444:GLN:H	1.72	0.53
1:K:1449:LYS:O	1:K:1453:ARG:HG2	2.08	0.53
1:E:691:GLU:HB3	1:E:723:GLN:CD	2.29	0.53
2:F:748:GLN:HG3	1:M:720:ASN:ND2	1.95	0.53
3:C:473:THR:OG1	3:C:496:GLY:HA3	2.07	0.53
3:C:572:ASN:C	3:C:575:PRO:HD2	2.29	0.53
3:C:760:LYS:HE2	3:C:783:PHE:CG	2.43	0.53
3:C:791:LEU:HD12	3:C:794:ASN:HD21	1.74	0.53
1:M:728:HIS:O	1:M:732:ILE:HG12	2.07	0.53
1:M:881:LYS:NZ	1:M:908:TYR:OH	2.40	0.53
1:A:1283:LEU:O	1:A:1287:ILE:HG12	2.08	0.53
1:B:1168:TYR:O	1:B:1172:GLU:HG2	2.08	0.53
4:D:151:LYS:O	4:D:155:ARG:HG2	2.08	0.53
1:L:1419:LEU:O	1:L:1422:LEU:HG	2.07	0.53
4:I:200:ASP:OD1	4:I:200:ASP:N	2.39	0.53
1:E:41:ARG:HH12	1:E:43:LYS:HG3	1.74	0.53
1:E:131:SER:O	1:E:136:SER:OG	2.25	0.53
1:E:439:VAL:HB	1:E:448:LEU:HD21	1.89	0.53
1:E:493:ALA:HB3	1:E:521:VAL:HG22	1.90	0.53
1:E:654:TYR:O	1:E:657:SER:OG	2.24	0.53
1:E:682:CYS:O	1:E:686:ALA:HB2	2.07	0.53
3:C:546:ILE:HB	3:C:583:ARG:NH1	2.24	0.53
3:C:700:GLU:HA	3:C:700:GLU:OE1	2.09	0.53
1:M:722:SER:O	1:M:728:HIS:NE2	2.42	0.53
1:A:1261:VAL:HG21	1:A:1286:LEU:HD11	1.90	0.53
1:A:1301:THR:HA	1:A:1304:GLU:HG2	1.89	0.53
1:B:1198:ILE:HA	1:B:1202:GLY:H	1.74	0.53
1:B:1198:ILE:HD13	1:B:1221:VAL:HB	1.89	0.53
1:B:1216:LEU:H	1:B:1216:LEU:HD12	1.73	0.53
1:L:1065:PHE:HA	1:L:1068:ALA:HB3	1.90	0.53
1:L:1096:TYR:O	1:L:1100:GLU:HB3	2.09	0.53
1:L:1117:GLN:OE1	1:L:1118:LYS:NZ	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:651:LEU:HB3	1:E:655:PHE:CE2	2.44	0.53
3:C:755:ASP:HB3	3:C:758:ARG:CD	2.37	0.53
1:M:1069:PHE:HA	1:M:1072:PHE:CD2	2.43	0.53
1:A:1250:THR:HA	1:A:1253:TRP:HD1	1.73	0.53
1:A:1413:GLU:OE2	4:D:129:ARG:NE	2.38	0.53
4:O:126:GLN:NE2	4:O:126:GLN:O	2.42	0.53
1:J:1505:ILE:N	1:J:1508:ARG:HH21	2.07	0.53
1:L:964:ASN:H	1:L:967:ARG:HH21	1.56	0.53
1:L:1228:ALA:O	1:L:1232:VAL:HG23	2.09	0.53
1:L:1251:ARG:O	1:L:1255:GLU:HG2	2.08	0.53
1:L:1350:ARG:O	1:L:1354:GLN:NE2	2.32	0.53
1:L:1375:ILE:HA	1:L:1391:PHE:CZ	2.44	0.53
1:E:531:GLN:H	1:E:534:GLN:HB2	1.74	0.53
1:E:586:GLU:HG3	1:E:616:LEU:HD13	1.91	0.53
1:E:615:GLN:HG3	1:E:638:ARG:NH1	2.23	0.53
3:C:709:GLU:O	3:C:713:TYR:CD2	2.62	0.53
1:M:559:ILE:O	1:M:563:THR:OG1	2.21	0.53
1:M:658:LEU:HB2	1:M:688:LYS:NZ	2.22	0.53
1:K:1370:GLU:O	1:K:1374:ALA:N	2.38	0.53
1:K:1437:ASN:O	1:K:1441:LYS:HG2	2.08	0.53
1:L:968:ARG:NH2	1:L:972:ASP:OD1	2.42	0.53
1:L:1242:ASP:HA	1:L:1245:ARG:HH21	1.72	0.53
4:N:218:VAL:HG22	4:N:223:LYS:H	1.73	0.53
1:E:72:ILE:O	1:E:113:TRP:NE1	2.37	0.53
3:C:589:LEU:HD12	3:C:590:MET:HG3	1.91	0.53
3:C:759:VAL:O	3:C:763:LEU:HG	2.09	0.53
1:M:689:TYR:CE2	1:M:698:LEU:HD21	2.43	0.53
1:M:891:GLU:O	1:M:895:ARG:HG3	2.09	0.53
1:A:1400:ASN:OD1	1:A:1400:ASN:N	2.41	0.53
1:A:1439:PHE:O	1:A:1443:LYS:N	2.40	0.53
1:B:1050:TYR:HE2	1:B:1055:ILE:HG21	1.74	0.53
1:K:1617:GLU:O	1:K:1621:LYS:HG2	2.09	0.53
1:L:970:LEU:O	1:L:974:VAL:HG13	2.09	0.53
1:L:1026:ASN:O	1:L:1030:LEU:CB	2.56	0.53
1:L:1227:LEU:O	1:L:1231:LEU:HG	2.08	0.53
1:L:1382:PRO:HG3	1:L:1410:PHE:HZ	1.74	0.53
1:E:181:MET:O	1:E:194:ILE:N	2.31	0.53
1:E:402:GLN:HA	1:E:414:LEU:HD21	1.91	0.53
1:E:556:TYR:HB2	1:E:558:LEU:HG	1.91	0.53
1:E:597:ASP:O	1:E:600:LEU:HB2	2.09	0.53
3:C:452:LEU:HD21	3:C:467:VAL:HG11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:701:LEU:HA	3:C:704:SER:OG	2.08	0.53
3:C:797:GLN:HB3	3:C:799:TYR:CE2	2.43	0.53
1:B:1248:ASN:HD22	1:B:1275:HIS:CE1	2.27	0.53
1:H:762:PHE:O	1:H:766:ALA:N	2.30	0.53
1:E:72:ILE:HD12	1:E:113:TRP:CD1	2.44	0.53
1:E:479:TYR:O	1:E:484:VAL:N	2.33	0.53
3:C:514:TRP:NE1	3:C:549:ILE:HG12	2.22	0.53
3:C:729:PHE:CD2	3:C:730:LYS:HD3	2.44	0.53
3:C:804:VAL:HG23	3:C:811:ARG:CG	2.39	0.53
1:A:1363:PHE:HA	1:A:1366:ASP:OD1	2.09	0.53
1:A:1604:LYS:HE3	4:D:210:LYS:HZ1	1.74	0.53
1:B:1054:ASP:O	1:B:1058:ILE:HG12	2.09	0.53
4:D:207:LYS:HE2	4:D:211:ASP:HA	1.91	0.53
1:K:1499:LEU:HB3	1:K:1507:PHE:O	2.09	0.53
1:K:1619:LEU:HB2	1:K:1620:ARG:NH1	2.24	0.53
1:H:647:ASN:O	1:H:651:LEU:HD23	2.08	0.53
1:E:370:ALA:O	1:E:374:GLN:N	2.32	0.53
1:E:545:ASP:H	1:E:548:GLN:CD	2.13	0.53
3:C:420:ILE:O	3:C:424:GLN:HB3	2.09	0.53
3:C:546:ILE:HA	3:C:549:ILE:HD12	1.90	0.53
1:M:797:GLN:OE1	1:M:797:GLN:N	2.42	0.53
1:B:1005:ILE:HA	1:B:1008:LEU:HD23	1.91	0.53
1:K:1412:LEU:HD23	1:K:1416:PRO:HB3	1.91	0.53
1:L:961:LEU:HD23	1:L:961:LEU:H	1.74	0.53
1:H:812:LEU:O	1:H:816:ILE:HG12	2.09	0.53
1:E:81:ALA:HA	1:E:90:ILE:HA	1.89	0.52
1:E:451:TRP:CE3	1:E:456:LYS:HD2	2.44	0.52
3:C:495:THR:HG23	3:C:524:ILE:HD11	1.91	0.52
3:C:822:VAL:HG23	3:C:824:CYS:SG	2.50	0.52
1:M:570:LEU:O	1:M:576:SER:OG	2.27	0.52
1:M:651:LEU:HA	1:M:654:TYR:CD2	2.44	0.52
1:M:1059:ALA:HB1	1:M:1064:LEU:HB2	1.90	0.52
1:A:1493:ILE:HG13	1:A:1494:SER:N	2.24	0.52
1:A:1593:ASP:N	1:A:1593:ASP:OD1	2.40	0.52
1:B:890:PRO:HG2	1:B:894:LEU:HD23	1.91	0.52
1:B:891:GLU:OE1	1:B:891:GLU:N	2.42	0.52
1:L:1360:GLU:O	1:L:1364:LEU:HG	2.09	0.52
1:L:1411:TYR:HD2	1:L:1415:LYS:HB2	1.74	0.52
1:E:338:ILE:HG22	1:E:344:ASN:HB2	1.90	0.52
1:E:416:GLN:O	1:E:420:ILE:HG13	2.09	0.52
1:E:518:LEU:HB3	1:E:549:ILE:HG13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:585:LEU:HD22	1:E:599:ILE:HG21	1.90	0.52
3:C:476:LEU:HB3	3:C:500:LYS:HE3	1.90	0.52
1:M:961:LEU:HD23	1:M:961:LEU:H	1.75	0.52
1:A:1521:TRP:O	1:A:1523:GLN:N	2.42	0.52
1:A:1566:PHE:HA	1:A:1569:CYS:SG	2.49	0.52
1:H:827:ASP:O	1:H:831:ASN:ND2	2.43	0.52
1:E:84:ALA:N	1:E:87:THR:O	2.37	0.52
1:E:627:LEU:O	1:E:631:THR:HG23	2.09	0.52
3:C:718:ILE:O	3:C:722:SER:OG	2.21	0.52
3:C:812:LEU:HB2	3:C:837:ARG:HH11	1.75	0.52
1:M:1025:GLN:NE2	1:M:1048:ASP:O	2.40	0.52
1:A:1450:PRO:HA	1:A:1453:ARG:HH21	1.74	0.52
1:B:1097:GLU:OE1	1:B:1097:GLU:N	2.29	0.52
4:D:107:ARG:HA	4:D:110:GLN:OE1	2.10	0.52
1:K:1475:GLU:HA	1:K:1502:HIS:CE1	2.44	0.52
1:L:1323:LEU:HA	1:L:1326:LYS:HB2	1.92	0.52
1:L:1409:GLN:HG2	1:L:1412:LEU:HD23	1.91	0.52
1:L:1469:ASN:HA	1:L:1472:ILE:HD12	1.92	0.52
1:H:809:PRO:HG2	1:H:839:GLN:HG2	1.91	0.52
1:E:267:SER:HB3	1:E:274:PHE:CE2	2.44	0.52
1:E:302:THR:HB	1:E:304:PHE:CE1	2.44	0.52
3:C:833:ILE:HG21	3:C:858:LEU:HD21	1.90	0.52
1:A:1250:THR:HA	1:A:1253:TRP:CD1	2.44	0.52
1:K:1620:ARG:HH21	1:K:1623:GLU:HG2	1.75	0.52
4:I:202:ASN:H	4:I:204:LYS:NZ	2.07	0.52
1:E:398:ILE:HA	1:E:401:PHE:CD2	2.45	0.52
1:E:428:ASN:N	1:E:431:GLU:OE1	2.39	0.52
1:E:438:PRO:O	1:E:442:GLN:N	2.33	0.52
1:E:578:GLY:O	1:E:582:THR:HG23	2.10	0.52
3:C:576:SER:HG	3:C:607:HIS:CG	2.21	0.52
3:C:765:GLU:HA	3:C:767:LYS:NZ	2.25	0.52
1:A:1445:LEU:HA	1:A:1448:VAL:HG22	1.90	0.52
1:A:1494:SER:O	1:A:1498:ARG:HG3	2.08	0.52
1:B:813:PRO:HA	1:B:839:GLN:HG3	1.91	0.52
1:J:1576:LEU:O	1:J:1578:ARG:NH1	2.42	0.52
4:I:146:GLN:O	4:I:150:ASN:ND2	2.42	0.52
1:E:124:ASP:O	1:E:144:ARG:NE	2.41	0.52
1:M:637:LYS:HE3	1:M:638:ARG:HH21	1.74	0.52
1:A:1515:PHE:HD1	1:A:1520:ARG:HB3	1.75	0.52
1:B:826:GLU:N	1:B:826:GLU:OE2	2.43	0.52
1:B:1228:ALA:O	1:B:1232:VAL:HG23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1578:ARG:NH1	1:K:1580:ASP:OD2	2.42	0.52
1:K:1598:TYR:O	1:K:1602:VAL:HG23	2.09	0.52
1:L:1000:LEU:HB3	1:L:1004:LEU:HD22	1.91	0.52
1:L:1186:LEU:O	1:L:1190:ILE:HG12	2.10	0.52
1:L:1198:ILE:HD12	1:L:1198:ILE:H	1.75	0.52
1:L:1204:ARG:HA	1:L:1207:ASP:HB2	1.90	0.52
1:E:34:SER:OG	1:E:75:PRO:O	2.13	0.52
1:E:266:ILE:HG21	1:E:287:LEU:HD13	1.91	0.52
3:C:479:TYR:O	3:C:484:VAL:HA	2.09	0.52
3:C:819:LEU:HA	3:C:822:VAL:HG22	1.92	0.52
1:M:597:ASP:HB2	1:M:625:ARG:NH2	2.22	0.52
1:M:756:PRO:HA	1:M:759:VAL:HB	1.92	0.52
1:M:759:VAL:O	1:M:763:LEU:HG	2.10	0.52
1:M:859:LEU:HD12	1:M:860:PRO:HD3	1.92	0.52
1:M:1006:GLU:OE1	1:M:1006:GLU:N	2.43	0.52
1:A:1253:TRP:HA	1:A:1256:VAL:HG12	1.91	0.52
1:A:1608:THR:O	1:A:1612:LYS:HG2	2.09	0.52
1:A:1617:GLU:O	1:A:1621:LYS:HG2	2.09	0.52
1:B:809:PRO:O	1:B:812:LEU:HD12	2.10	0.52
1:B:990:VAL:HA	1:B:993:LYS:HD2	1.90	0.52
1:J:1621:LYS:HA	1:J:1624:GLU:HG3	1.91	0.52
1:L:968:ARG:HD2	1:L:971:ILE:HD11	1.92	0.52
1:E:92:ASN:ND2	1:E:95:MET:H	2.08	0.52
1:E:642:HIS:O	1:E:646:LEU:N	2.34	0.52
3:C:568:ASP:HA	3:C:571:LYS:HD2	1.92	0.52
3:C:743:GLU:HA	3:C:746:ARG:NH1	2.25	0.52
3:C:833:ILE:HD13	3:C:858:LEU:HD21	1.90	0.52
1:M:611:ALA:HA	1:M:633:LEU:HD11	1.90	0.52
1:M:719:VAL:HA	1:M:722:SER:HB2	1.91	0.52
1:M:989:SER:O	1:M:993:LYS:HG2	2.10	0.52
1:A:1281:ASP:N	1:A:1281:ASP:OD1	2.43	0.52
1:A:1541:ALA:O	1:A:1544:SER:OG	2.18	0.52
1:K:1404:TYR:OH	1:K:1429:ARG:NH2	2.27	0.52
1:E:121:LEU:O	1:E:128:TYR:N	2.29	0.52
1:E:156:TYR:HE1	1:E:165:LEU:HB3	1.73	0.52
1:E:541:GLU:HB3	1:E:542:PRO:HD2	1.92	0.52
1:E:663:SER:OG	1:E:663:SER:O	2.27	0.52
3:C:519:ARG:O	3:C:523:ARG:NH1	2.43	0.52
3:C:546:ILE:HG21	3:C:580:LEU:CD1	2.40	0.52
3:C:637:LYS:HB3	3:C:638:ARG:NH1	2.24	0.52
1:M:724:ASP:O	1:M:727:VAL:HG22	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1026:ASN:O	1:M:1030:LEU:HG	2.09	0.52
1:A:1289:TYR:O	1:A:1293:ARG:HD3	2.09	0.52
1:A:1450:PRO:HA	1:A:1453:ARG:HE	1.75	0.52
1:B:1071:ILE:HA	1:B:1074:LYS:HE3	1.91	0.52
4:D:193:GLU:HA	4:D:223:LYS:HD2	1.92	0.52
4:D:212:VAL:HG21	4:D:214:ARG:HE	1.75	0.52
1:L:1322:ILE:HG22	1:L:1323:LEU:HD22	1.92	0.52
1:E:498:VAL:HG22	1:E:532:PHE:HD1	1.74	0.52
1:E:525:SER:N	1:E:526:PRO:HD2	2.25	0.52
3:C:483:ASN:ND2	3:C:485:PRO:HG3	2.25	0.52
3:C:512:PRO:HA	3:C:515:ILE:HG13	1.92	0.52
3:C:673:ALA:O	3:C:675:ILE:HG12	2.10	0.52
3:C:692:GLN:HG3	3:C:693:LEU:CD2	2.40	0.52
1:M:725:PRO:HA	1:M:728:HIS:HD2	1.74	0.52
1:A:1404:TYR:H	1:A:1404:TYR:HD2	1.58	0.52
1:L:946:TYR:O	1:L:950:ARG:N	2.39	0.52
1:E:265:GLN:NE2	1:E:266:ILE:O	2.43	0.51
3:C:808:ASN:OD1	3:C:808:ASN:N	2.39	0.51
1:M:1042:GLU:OE1	1:M:1046:ARG:NH2	2.43	0.51
1:B:944:SER:O	1:B:948:VAL:HG13	2.10	0.51
4:N:218:VAL:HG23	4:N:222:LEU:HB2	1.91	0.51
1:E:230:ILE:HD13	1:E:287:LEU:O	2.10	0.51
1:E:400:ARG:O	1:E:404:VAL:HG23	2.10	0.51
3:C:724:ASP:CG	3:C:727:VAL:H	2.13	0.51
3:C:810:SER:HB3	3:C:839:GLN:HE21	1.74	0.51
4:O:103:ILE:HA	4:O:106:TRP:HE1	1.74	0.51
1:K:1451:TYR:O	1:K:1455:VAL:HG22	2.11	0.51
1:H:652:VAL:HA	1:H:655:PHE:CD2	2.45	0.51
1:E:5:LEU:O	1:E:337:TYR:OH	2.21	0.51
1:E:581:GLN:HA	1:E:584:LEU:HD12	1.92	0.51
1:E:677:GLN:OE1	1:E:677:GLN:N	2.43	0.51
3:C:444:ARG:HB2	3:C:447:LEU:HB2	1.93	0.51
3:C:546:ILE:O	3:C:549:ILE:HB	2.10	0.51
3:C:683:VAL:CG1	3:C:714:PHE:HB2	2.41	0.51
3:C:774:LEU:O	3:C:778:CYS:HB3	2.10	0.51
1:J:1563:ARG:HB3	1:J:1594:PHE:HZ	1.75	0.51
1:L:1084:VAL:HA	1:L:1087:GLU:HG3	1.92	0.51
1:L:1187:GLU:OE1	1:L:1220:ASN:ND2	2.43	0.51
1:L:1408:ILE:HA	1:L:1419:LEU:HD21	1.92	0.51
1:L:1416:PRO:O	1:L:1419:LEU:HB2	2.11	0.51
1:H:680:GLN:HG3	1:H:684:GLN:NE2	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:92:ASN:HD21	1:E:94:GLU:HB3	1.75	0.51
1:E:675:ILE:HG23	1:E:707:SER:HB3	1.91	0.51
3:C:401:PHE:HZ	3:C:416:GLN:HE21	1.57	0.51
3:C:561:GLN:HB3	3:C:565:PHE:CE2	2.46	0.51
1:B:1161:ARG:HB3	1:B:1162:LYS:NZ	2.24	0.51
1:J:1499:LEU:HD23	1:J:1507:PHE:CD2	2.46	0.51
1:J:1593:ASP:N	1:J:1593:ASP:OD1	2.42	0.51
1:K:1604:LYS:HZ1	4:N:213:SER:N	2.01	0.51
1:H:689:TYR:HD1	1:H:692:GLN:HE21	1.59	0.51
1:E:37:PHE:HE1	1:E:75:PRO:HA	1.75	0.51
1:E:51:VAL:HA	1:E:63:ARG:HA	1.92	0.51
1:E:468:LYS:HZ3	1:E:488:VAL:C	2.13	0.51
3:C:486:ASN:HB3	3:C:510:TYR:CE1	2.44	0.51
3:C:491:CYS:HA	3:C:516:PHE:CG	2.46	0.51
3:C:540:GLU:N	3:C:575:PRO:HB3	2.26	0.51
1:A:1251:ARG:HA	1:A:1254:LYS:HZ2	1.74	0.51
1:B:892:ARG:HA	1:B:895:ARG:HB3	1.92	0.51
1:B:1174:ILE:HA	1:B:1177:LEU:HD12	1.93	0.51
4:D:129:ARG:HG2	4:D:133:LYS:HE3	1.92	0.51
1:L:1077:VAL:O	1:L:1080:SER:OG	2.21	0.51
4:N:143:GLN:O	4:N:147:VAL:HG23	2.09	0.51
1:E:335:ILE:HD12	1:E:358:ALA:O	2.11	0.51
1:E:508:VAL:HG11	1:E:511:THR:HG23	1.93	0.51
3:C:436:CYS:HA	3:C:448:LEU:HD13	1.92	0.51
3:C:761:ASN:HA	3:C:764:LYS:CD	2.33	0.51
3:C:826:GLU:HG2	3:C:827:ASP:OD1	2.11	0.51
3:C:852:ARG:O	3:C:854:ARG:HD2	2.10	0.51
1:M:787:LEU:O	1:M:791:LEU:HG	2.11	0.51
1:A:1304:GLU:HA	1:A:1307:LEU:HG	1.92	0.51
1:A:1376:ILE:O	1:A:1380:ASN:ND2	2.44	0.51
1:A:1477:TYR:HA	1:A:1480:LEU:HB3	1.92	0.51
1:K:1571:PHE:CE1	4:N:212:VAL:HG11	2.45	0.51
1:L:987:GLU:O	1:L:991:THR:HG23	2.11	0.51
1:L:1229:SER:O	1:L:1233:HIS:ND1	2.43	0.51
1:L:1313:HIS:O	1:L:1316:MET:HG2	2.10	0.51
3:C:401:PHE:CD1	3:C:417:TYR:HB2	2.45	0.51
3:C:536:LEU:HD23	3:C:537:VAL:HG13	1.92	0.51
3:C:624:GLN:HG2	3:C:649:GLU:OE1	2.11	0.51
3:C:634:TYR:O	3:C:636:ILE:HG12	2.10	0.51
1:A:1290:TYR:O	1:A:1295:TYR:N	2.30	0.51
1:A:1408:ILE:HG13	1:A:1409:GLN:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1436:VAL:HG21	1:A:1462:SER:HB2	1.93	0.51
1:B:985:PRO:HB3	1:B:1018:PHE:HE2	1.76	0.51
4:D:125:GLU:HG3	4:D:129:ARG:NH2	2.25	0.51
4:D:202:ASN:HB2	4:D:204:LYS:HG3	1.92	0.51
1:K:1540:TYR:HA	1:K:1543:GLU:HG3	1.92	0.51
1:L:1227:LEU:HD12	1:L:1228:ALA:N	2.26	0.51
1:L:1391:PHE:HA	1:L:1394:ILE:HG12	1.92	0.51
4:N:139:TRP:O	4:N:143:GLN:HG2	2.10	0.51
1:E:163:LYS:HA	1:E:186:VAL:HB	1.93	0.51
1:E:346:ASP:O	1:E:350:ARG:HG3	2.11	0.51
1:E:494:GLU:CD	1:E:520:ASN:HB3	2.31	0.51
1:E:534:GLN:HG3	1:E:565:PHE:CD1	2.46	0.51
3:C:440:LEU:HB3	3:C:441:GLN:OE1	2.11	0.51
3:C:497:GLN:HB3	3:C:500:LYS:HZ3	1.75	0.51
3:C:708:PHE:HD1	3:C:708:PHE:H	1.58	0.51
3:C:808:ASN:HD22	3:C:811:ARG:HH21	1.59	0.51
1:A:1538:MET:O	1:A:1542:SER:OG	2.19	0.51
1:B:847:ALA:HA	1:B:850:GLU:OE1	2.11	0.51
1:B:913:ASP:OD1	1:B:915:HIS:N	2.38	0.51
4:D:220:MET:O	4:D:225:THR:OG1	2.24	0.51
1:L:1401:VAL:HA	1:L:1404:TYR:CE2	2.46	0.51
1:E:278:LYS:O	1:E:302:THR:OG1	2.18	0.51
1:E:583:ARG:HA	1:E:586:GLU:OE1	2.11	0.51
3:C:439:VAL:CG1	3:C:448:LEU:HD13	2.41	0.51
3:C:749:ARG:HA	3:C:780:ARG:NH1	2.16	0.51
3:C:759:VAL:O	3:C:762:PHE:HB3	2.10	0.51
3:C:768:LEU:HD12	3:C:770:ASP:H	1.76	0.51
3:C:831:ASN:O	3:C:835:VAL:HG13	2.10	0.51
1:M:732:ILE:HG23	1:M:741:ILE:HD13	1.93	0.51
1:M:840:PHE:CZ	1:M:845:LEU:HD13	2.46	0.51
1:A:1317:PHE:O	1:A:1320:LEU:HB3	2.10	0.51
1:B:1253:TRP:CE3	1:B:1272:CYS:HB3	2.46	0.51
1:L:1025:GLN:OE1	1:L:1025:GLN:N	2.43	0.51
1:L:1065:PHE:HB3	1:L:1088:HIS:CE1	2.46	0.51
1:H:803:TYR:OH	1:H:811:ARG:HB2	2.11	0.51
1:E:484:VAL:O	1:E:504:TYR:OH	2.13	0.51
3:C:440:LEU:HB2	3:C:448:LEU:HD22	1.92	0.51
3:C:479:TYR:CD2	3:C:489:ILE:HA	2.46	0.51
3:C:685:VAL:HA	3:C:688:LYS:HB2	1.93	0.51
3:C:803:TYR:CZ	3:C:808:ASN:ND2	2.73	0.51
1:M:757:GLU:O	1:M:760:LYS:HG2	2.12	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1455:VAL:O	1:A:1458:HIS:ND1	2.44	0.51
1:A:1545:LYS:O	1:A:1545:LYS:HD2	2.10	0.51
1:B:1028:LEU:O	1:B:1031:THR:OG1	2.26	0.51
1:K:1526:GLU:OE1	1:K:1530:LYS:NZ	2.43	0.51
1:L:1051:ASP:OD1	1:L:1051:ASP:N	2.39	0.51
1:L:1125:ILE:HD13	1:L:1152:GLU:HG3	1.93	0.51
1:L:1297:GLU:OE2	1:L:1298:GLU:HG2	2.10	0.51
1:H:726:ASP:HA	1:H:758:ARG:HH12	1.76	0.51
4:N:202:ASN:HB2	4:N:204:LYS:HZ2	1.75	0.51
1:E:283:HIS:CE1	1:E:295:MET:HG3	2.46	0.50
1:E:532:PHE:O	1:E:536:LEU:HG	2.11	0.50
1:E:615:GLN:HG3	1:E:638:ARG:CZ	2.41	0.50
3:C:573:ASN:HA	3:C:607:HIS:CE1	2.45	0.50
3:C:689:TYR:HA	3:C:692:GLN:HE21	1.75	0.50
3:C:797:GLN:HB3	3:C:799:TYR:CZ	2.45	0.50
1:M:741:ILE:HG13	1:M:745:GLU:HB3	1.94	0.50
1:M:955:LEU:O	1:M:959:VAL:HG23	2.11	0.50
1:M:995:PHE:HB3	1:M:1005:ILE:HG12	1.93	0.50
1:B:992:VAL:HA	1:B:995:PHE:CD2	2.46	0.50
1:B:1113:LYS:HG3	1:B:1117:GLN:NE2	2.26	0.50
1:B:1128:TYR:O	1:B:1132:ASP:N	2.44	0.50
4:D:165:PRO:HG2	4:D:194:LYS:HZ2	1.76	0.50
1:L:1448:VAL:HG22	1:L:1451:TYR:HB3	1.92	0.50
1:H:741:ILE:O	1:H:745:GLU:N	2.35	0.50
4:I:201:PHE:HB2	4:I:204:LYS:HZ1	1.77	0.50
1:E:316:ILE:HA	1:E:326:SER:HA	1.94	0.50
1:E:434:GLU:HA	1:E:437:ARG:HD2	1.93	0.50
1:E:518:LEU:HD12	1:E:544:ALA:C	2.31	0.50
1:E:598:ALA:O	1:E:602:ASN:ND2	2.44	0.50
1:E:616:LEU:O	1:E:620:ALA:N	2.44	0.50
1:E:617:CYS:HB2	1:E:630:PHE:CZ	2.47	0.50
2:F:747:LEU:HD12	1:M:719:VAL:CB	2.36	0.50
3:C:463:LEU:O	3:C:467:VAL:HG22	2.12	0.50
3:C:490:GLN:HB2	3:C:510:TYR:OH	2.10	0.50
3:C:517:LEU:O	3:C:521:VAL:N	2.43	0.50
3:C:604:MET:O	3:C:608:TYR:HB3	2.11	0.50
1:M:828:VAL:HA	1:M:831:ASN:ND2	2.26	0.50
1:M:858:LEU:O	1:M:862:LEU:HD12	2.11	0.50
1:M:935:ASN:OD1	1:M:935:ASN:N	2.42	0.50
1:M:966:TYR:O	1:M:970:LEU:N	2.30	0.50
1:A:1324:TYR:HB3	1:A:1332:MET:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1550:ALA:HA	1:A:1553:LEU:HD12	1.93	0.50
1:B:855:LEU:HB2	1:B:882:ILE:HG22	1.94	0.50
1:B:1010:LYS:HD2	1:B:1013:LEU:HD13	1.93	0.50
1:J:1557:PHE:CZ	1:J:1562:LYS:HB3	2.47	0.50
1:K:1584:GLU:OE2	1:K:1588:ARG:NH1	2.44	0.50
4:N:158:ASP:HA	4:N:161:PHE:CD2	2.46	0.50
1:E:52:ILE:HG12	1:E:73:MET:SD	2.51	0.50
1:E:206:MET:SD	1:E:243:PHE:HB2	2.51	0.50
1:E:418:PHE:HA	1:E:421:LEU:HD12	1.93	0.50
1:E:612:HIS:HA	1:E:615:GLN:OE1	2.11	0.50
3:C:440:LEU:CD1	3:C:445:LYS:HG3	2.41	0.50
3:C:549:ILE:HG22	3:C:562:CYS:SG	2.51	0.50
3:C:597:ASP:H	3:C:625:ARG:NH2	2.05	0.50
3:C:615:GLN:HA	3:C:618:GLU:OE1	2.11	0.50
3:C:635:ASP:CG	3:C:638:ARG:HD3	2.31	0.50
3:C:676:ARG:HA	3:C:679:LEU:HG	1.93	0.50
1:M:789:LEU:HD11	1:M:793:ARG:NH2	2.25	0.50
1:A:1478:GLN:OE1	1:A:1478:GLN:N	2.34	0.50
1:B:1136:SER:O	1:B:1140:VAL:HG23	2.10	0.50
4:D:109:GLU:O	4:D:112:LYS:HG3	2.11	0.50
1:L:1442:VAL:HG23	1:L:1444:GLN:HB2	1.94	0.50
1:H:652:VAL:HG13	1:H:688:LYS:HE3	1.93	0.50
1:H:666:CYS:O	1:H:670:MET:HG3	2.12	0.50
1:E:574:ARG:HB2	1:E:575:PRO:HD3	1.93	0.50
3:C:524:ILE:HG23	3:C:526:PRO:O	2.10	0.50
3:C:816:ILE:HG12	3:C:829:ILE:HG21	1.93	0.50
1:M:802:ILE:HA	1:M:805:GLN:HE21	1.75	0.50
1:M:830:LYS:O	1:M:834:LEU:HG	2.11	0.50
1:M:1058:ILE:O	1:M:1062:ASN:N	2.45	0.50
1:A:1596:MET:O	1:A:1600:ILE:HG13	2.11	0.50
1:B:956:TRP:HE3	1:B:960:LEU:HD11	1.77	0.50
4:O:100:PRO:HG2	4:O:102:SER:HB3	1.94	0.50
1:L:1314:MET:SD	1:L:1315:GLY:N	2.84	0.50
1:L:1330:GLN:CD	1:L:1330:GLN:H	2.15	0.50
1:L:1358:TRP:CD1	1:L:1361:LEU:HD12	2.45	0.50
1:H:774:LEU:O	1:H:778:CYS:HB3	2.12	0.50
1:E:257:GLN:O	1:E:279:TYR:OH	2.13	0.50
1:E:370:ALA:HB1	1:E:374:GLN:NE2	2.25	0.50
1:E:412:SER:O	1:E:416:GLN:HG3	2.12	0.50
3:C:486:ASN:O	3:C:510:TYR:OH	2.24	0.50
3:C:514:TRP:CH2	3:C:532:PHE:HB2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:207:LYS:HE2	4:D:212:VAL:N	2.27	0.50
4:O:103:ILE:HA	4:O:106:TRP:NE1	2.27	0.50
1:K:1567:GLY:O	1:K:1570:LEU:HG	2.11	0.50
1:L:1245:ARG:C	1:L:1248:ASN:HD21	2.15	0.50
1:L:1334:GLU:HA	1:L:1337:GLU:OE1	2.12	0.50
1:H:668:ARG:NH1	1:H:668:ARG:O	2.39	0.50
1:E:218:PHE:HE1	1:E:231:ILE:HG12	1.76	0.50
1:E:338:ILE:HA	1:E:342:LEU:HD12	1.94	0.50
1:E:439:VAL:HG13	1:E:444:ARG:HD2	1.92	0.50
3:C:387:ALA:HB3	3:C:391:ILE:HG22	1.94	0.50
3:C:495:THR:HA	3:C:532:PHE:HZ	1.76	0.50
1:M:1074:LYS:HG2	1:M:1075:PHE:CD1	2.47	0.50
1:A:1494:SER:OG	1:A:1498:ARG:NH1	2.41	0.50
1:B:1079:THR:OG1	1:B:1080:SER:N	2.45	0.50
4:D:131:LYS:HA	4:D:134:LYS:HG2	1.94	0.50
3:C:661:GLU:O	3:C:664:LEU:HD13	2.12	0.50
3:C:774:LEU:HD12	3:C:778:CYS:HB2	1.94	0.50
1:M:855:LEU:H	1:M:856:LYS:HZ2	1.58	0.50
1:M:979:LEU:HD23	1:M:1011:ILE:HD11	1.94	0.50
1:B:971:ILE:O	1:B:974:VAL:HG22	2.10	0.50
1:L:1284:GLU:O	1:L:1287:ILE:HB	2.12	0.50
1:E:291:THR:O	1:E:293:ILE:HG13	2.12	0.50
1:E:655:PHE:O	1:E:659:SER:OG	2.21	0.50
1:E:690:HIS:O	1:E:692:GLN:HG3	2.12	0.50
2:F:747:LEU:N	1:M:720:ASN:HA	2.26	0.50
3:C:554:MET:HA	3:C:559:ILE:CG1	2.39	0.50
3:C:610:ARG:O	3:C:613:ILE:HG12	2.11	0.50
3:C:611:ALA:O	3:C:615:GLN:HG3	2.12	0.50
3:C:622:LEU:O	3:C:625:ARG:N	2.45	0.50
3:C:689:TYR:O	3:C:692:GLN:HG2	2.11	0.50
1:A:1345:ILE:HG13	1:A:1368:TYR:CZ	2.47	0.50
1:A:1358:TRP:O	1:A:1362:VAL:HG23	2.11	0.50
1:A:1431:ASP:OD2	1:A:1434:ARG:HD3	2.11	0.50
1:B:842:THR:O	1:B:846:VAL:HG13	2.11	0.50
1:B:1177:LEU:HB2	1:B:1186:LEU:HD22	1.94	0.50
1:B:1185:GLU:OE1	1:B:1185:GLU:N	2.29	0.50
4:O:133:LYS:HB2	4:O:134:LYS:NZ	2.27	0.50
1:K:1596:MET:HA	1:K:1599:PHE:CD2	2.47	0.50
1:L:1115:GLN:HB3	1:L:1120:MET:O	2.12	0.50
1:L:1153:LEU:O	1:L:1157:LEU:HG	2.12	0.50
1:L:1236:GLU:OE2	1:L:1239:ALA:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1430:LEU:HD12	1:L:1431:ASP:N	2.26	0.50
1:E:104:MET:SD	1:E:138:PRO:HG3	2.51	0.50
1:E:648:PRO:HB2	1:E:653:ASN:HD21	1.77	0.50
3:C:662:ASP:HA	3:C:664:LEU:HD13	1.94	0.50
3:C:696:GLN:HA	3:C:699:ILE:HG12	1.93	0.50
1:A:1326:LYS:HG3	1:A:1327:PHE:CD1	2.47	0.50
1:A:1620:ARG:NH1	1:J:1620:ARG:HG3	2.26	0.50
1:B:901:ASP:OD2	1:B:904:VAL:N	2.35	0.50
1:B:954:GLU:OE2	1:B:954:GLU:N	2.34	0.50
1:J:1575:ASP:N	1:J:1575:ASP:OD1	2.43	0.50
1:L:1270:GLN:HE22	1:L:1305:ALA:H	1.60	0.50
1:E:129:HIS:CG	1:E:141:MET:HG3	2.46	0.49
1:E:201:PHE:HD1	1:E:233:VAL:HG21	1.77	0.49
1:E:690:HIS:HB2	1:E:692:GLN:HG2	1.93	0.49
3:C:614:ALA:O	3:C:629:HIS:CD2	2.65	0.49
1:M:623:LEU:O	1:M:627:LEU:HG	2.12	0.49
1:A:1565:CYS:HA	4:D:195:VAL:HG23	1.93	0.49
1:B:1150:TRP:CE2	1:B:1179:LYS:HG2	2.47	0.49
1:B:1154:VAL:HG21	1:B:1182:ARG:NH1	2.27	0.49
1:L:1375:ILE:O	1:L:1379:MET:HG2	2.12	0.49
4:I:147:VAL:HA	4:I:150:ASN:HD21	1.76	0.49
4:N:147:VAL:HA	4:N:150:ASN:HD21	1.77	0.49
4:N:192:TRP:HB3	4:N:224:GLN:CA	2.42	0.49
1:E:41:ARG:HA	1:E:50:VAL:HA	1.94	0.49
1:E:650:TRP:HB3	1:E:654:TYR:CE2	2.46	0.49
2:F:746:ALA:HB2	1:M:721:PHE:CG	2.46	0.49
3:C:435:LEU:HG	3:C:451:TRP:CE3	2.47	0.49
3:C:436:CYS:SG	3:C:466:LEU:HD12	2.52	0.49
3:C:581:GLN:HE22	3:C:607:HIS:HB2	1.78	0.49
3:C:610:ARG:HG3	3:C:632:ASP:HB3	1.93	0.49
3:C:670:MET:HE3	3:C:679:LEU:HD23	1.94	0.49
3:C:728:HIS:O	3:C:732:ILE:HG13	2.12	0.49
3:C:804:VAL:CG2	3:C:812:LEU:HD22	2.39	0.49
1:M:593:PRO:O	1:M:625:ARG:NH1	2.45	0.49
1:M:695:THR:OG1	1:M:697:SER:OG	2.14	0.49
1:M:954:GLU:OE1	1:M:954:GLU:N	2.34	0.49
1:M:971:ILE:O	1:M:975:VAL:HG22	2.11	0.49
1:A:1526:GLU:O	1:A:1529:LYS:HB2	2.12	0.49
1:B:1070:ALA:HA	1:B:1073:ARG:CZ	2.42	0.49
1:L:1170:GLU:O	1:L:1174:ILE:HG23	2.12	0.49
1:L:1324:TYR:HD2	1:L:1332:MET:HB3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:166:LEU:HD11	1:E:181:MET:HB3	1.94	0.49
1:E:641:VAL:HA	1:E:644:HIS:CD2	2.46	0.49
3:C:520:ASN:O	3:C:524:ILE:HB	2.13	0.49
3:C:654:TYR:N	3:C:654:TYR:CD1	2.72	0.49
1:A:1433:THR:HA	1:A:1436:VAL:HG22	1.93	0.49
1:A:1619:LEU:HA	1:A:1622:GLU:HG3	1.94	0.49
1:J:1469:ASN:O	1:J:1473:THR:HG23	2.12	0.49
1:J:1604:LYS:O	1:J:1608:THR:HG23	2.13	0.49
1:L:1402:GLU:HA	1:L:1405:TYR:CD2	2.47	0.49
1:H:857:LEU:HD23	1:H:857:LEU:H	1.77	0.49
1:E:476:LEU:HD12	1:E:496:GLY:HA3	1.94	0.49
3:C:434:GLU:O	3:C:438:PRO:HD2	2.13	0.49
3:C:567:LEU:O	3:C:571:LYS:HG3	2.13	0.49
3:C:676:ARG:HA	3:C:679:LEU:HD11	1.94	0.49
1:M:827:ASP:HA	1:M:830:LYS:HD2	1.94	0.49
1:M:904:VAL:O	1:M:907:LYS:HG3	2.13	0.49
1:B:909:CYS:HA	1:B:912:ARG:HH11	1.77	0.49
1:H:671:LEU:HA	1:H:674:ASN:HB2	1.95	0.49
1:E:218:PHE:CZ	1:E:229:HIS:HB2	2.47	0.49
1:E:276:ILE:HD13	1:E:303:ILE:HD12	1.94	0.49
1:E:387:ALA:CB	1:E:392:LEU:H	2.26	0.49
1:E:451:TRP:O	1:E:455:ASP:N	2.46	0.49
1:E:671:LEU:HD12	1:E:698:LEU:HD13	1.95	0.49
1:B:1176:ALA:O	1:B:1180:THR:HG22	2.13	0.49
1:L:1025:GLN:O	1:L:1029:ILE:N	2.35	0.49
1:L:1365:TYR:O	1:L:1369:GLU:N	2.45	0.49
1:H:635:ASP:O	1:H:638:ARG:HD3	2.13	0.49
1:H:726:ASP:O	1:H:730:LYS:HG2	2.12	0.49
1:E:49:GLN:HG2	1:E:65:PRO:HA	1.95	0.49
1:E:395:PRO:O	1:E:399:ARG:HG3	2.12	0.49
3:C:461:GLU:HB2	3:C:488:VAL:HG11	1.94	0.49
3:C:794:ASN:OD1	3:C:795:ASN:N	2.40	0.49
3:C:812:LEU:O	3:C:816:ILE:HG13	2.12	0.49
1:M:964:ASN:HD21	1:M:966:TYR:HB2	1.77	0.49
1:M:1030:LEU:O	1:M:1034:LYS:HG2	2.12	0.49
1:A:1267:ARG:HA	1:A:1270:GLN:CD	2.33	0.49
1:A:1326:LYS:O	4:D:106:TRP:NE1	2.46	0.49
1:A:1411:TYR:HB3	1:A:1419:LEU:HB2	1.94	0.49
1:B:848:GLU:O	1:B:852:ARG:NH1	2.45	0.49
1:B:1041:MET:HA	1:B:1044:ILE:HD12	1.94	0.49
1:B:1107:VAL:HA	1:B:1110:GLN:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1171:THR:HG22	1:B:1197:HIS:H	1.77	0.49
1:L:973:GLN:O	1:L:977:THR:HG23	2.12	0.49
1:L:1111:LEU:O	1:L:1115:GLN:NE2	2.33	0.49
1:H:811:ARG:O	1:H:815:VAL:HG23	2.13	0.49
1:E:226:GLY:C	1:E:250:VAL:H	2.16	0.49
3:C:429:LYS:HA	3:C:458:GLU:HG3	1.95	0.49
3:C:706:LYS:C	3:C:706:LYS:HD3	2.33	0.49
3:C:808:ASN:ND2	3:C:811:ARG:HE	2.10	0.49
1:B:985:PRO:HD3	1:B:1018:PHE:HZ	1.77	0.49
4:D:151:LYS:O	4:D:155:ARG:NH1	2.45	0.49
4:D:159:LYS:HA	4:D:162:TYR:CD2	2.48	0.49
4:O:113:ARG:NH2	4:O:116:GLU:HB3	2.27	0.49
1:L:1096:TYR:HB2	1:L:1111:LEU:HD21	1.95	0.49
1:L:1149:ASN:OD1	1:L:1153:LEU:HD11	2.12	0.49
1:L:1326:LYS:HD3	1:L:1326:LYS:HA	1.56	0.49
1:L:1371:TYR:O	1:L:1375:ILE:HG12	2.13	0.49
1:E:394:THR:OG1	1:E:397:THR:HG23	2.12	0.49
1:E:472:PRO:O	1:E:476:LEU:HG	2.13	0.49
1:E:615:GLN:O	1:E:618:GLU:HB2	2.13	0.49
3:C:401:PHE:HZ	3:C:416:GLN:HG2	1.77	0.49
3:C:474:LEU:O	3:C:478:VAL:HG23	2.13	0.49
3:C:490:GLN:OE1	3:C:504:TYR:HB3	2.13	0.49
3:C:534:GLN:HB2	3:C:565:PHE:CA	2.42	0.49
3:C:562:CYS:O	3:C:566:LEU:HG	2.13	0.49
3:C:658:LEU:HB2	3:C:688:LYS:NZ	2.28	0.49
1:M:876:HIS:CG	1:M:899:TYR:HB2	2.48	0.49
1:M:930:LEU:HG	1:M:943:LEU:HD11	1.95	0.49
1:A:1306:ALA:O	1:A:1309:LEU:HG	2.13	0.49
1:A:1580:ASP:N	1:A:1580:ASP:OD1	2.45	0.49
1:A:1605:GLU:HG2	1:A:1609:LYS:HE2	1.93	0.49
1:A:1609:LYS:HA	1:A:1612:LYS:HE3	1.95	0.49
4:D:110:GLN:O	4:D:114:LEU:HG	2.12	0.49
1:J:1563:ARG:NH1	1:J:1593:ASP:OD2	2.31	0.49
1:K:1532:SER:O	1:K:1537:ALA:N	2.45	0.49
1:E:50:VAL:O	1:E:64:ARG:N	2.40	0.49
1:E:263:ALA:O	1:E:275:LEU:HD12	2.13	0.49
1:E:272:VAL:HB	1:E:284:LEU:HD11	1.94	0.49
1:E:347:LEU:HD23	1:E:350:ARG:HD2	1.95	0.49
1:E:709:GLU:HB3	1:E:713:TYR:CE2	2.48	0.49
3:C:393:ARG:NH1	3:C:435:LEU:HD22	2.28	0.49
3:C:510:TYR:HD2	3:C:513:ASP:N	2.08	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:756:PRO:HG3	3:C:781:PHE:CZ	2.47	0.49
3:C:854:ARG:CG	3:C:856:LYS:HZ3	2.23	0.49
1:M:696:GLN:O	1:M:699:ILE:HG12	2.13	0.49
1:M:816:ILE:HA	1:M:819:LEU:HG	1.94	0.49
1:B:1253:TRP:HE3	1:B:1272:CYS:HB3	1.77	0.49
4:O:122:LYS:HA	4:O:125:GLU:HG2	1.94	0.49
1:J:1622:GLU:HA	1:J:1625:GLN:HG2	1.95	0.49
1:K:1513:TYR:HA	1:K:1516:LYS:NZ	2.27	0.49
1:K:1527:LEU:HD12	1:K:1530:LYS:HB2	1.93	0.49
1:L:1238:GLN:O	1:L:1241:VAL:HG22	2.12	0.49
1:E:90:ILE:O	1:E:100:LYS:N	2.43	0.49
1:E:630:PHE:CG	1:E:639:ALA:HB2	2.47	0.49
1:E:707:SER:O	1:E:711:LEU:HG	2.12	0.49
3:C:517:LEU:HD11	3:C:532:PHE:CD2	2.48	0.49
3:C:534:GLN:HB2	3:C:565:PHE:CG	2.47	0.49
3:C:545:ASP:CG	3:C:548:GLN:HB2	2.33	0.49
3:C:729:PHE:CE1	3:C:758:ARG:HG3	2.47	0.49
3:C:745:GLU:HB3	3:C:773:PRO:HG3	1.94	0.49
3:C:782:ASP:HA	3:C:784:VAL:HG13	1.95	0.49
1:M:675:ILE:HG23	1:M:676:ARG:NH2	2.28	0.49
1:M:683:VAL:HG21	1:M:710:GLY:HA3	1.94	0.49
1:A:1411:TYR:HB2	1:A:1419:LEU:HD22	1.95	0.49
1:A:1605:GLU:O	1:A:1609:LYS:HG2	2.13	0.49
1:B:816:ILE:HG23	1:B:839:GLN:NE2	2.28	0.49
1:B:1137:TYR:O	1:B:1141:VAL:HG23	2.13	0.49
1:L:945:ARG:O	1:L:949:ARG:N	2.46	0.49
1:E:40:ILE:N	1:E:51:VAL:O	2.33	0.48
1:E:49:GLN:CG	1:E:65:PRO:HA	2.43	0.48
1:E:173:GLN:HG2	1:E:174:GLN:HG3	1.95	0.48
1:E:211:GLU:HB2	1:E:237:PRO:HG2	1.95	0.48
3:C:490:GLN:CB	3:C:513:ASP:HB2	2.41	0.48
3:C:528:GLN:HG2	3:C:558:LEU:HD12	1.95	0.48
1:M:840:PHE:CZ	1:M:842:THR:HA	2.48	0.48
1:A:1537:ALA:O	1:A:1541:ALA:N	2.28	0.48
1:B:942:SER:HA	1:B:945:ARG:HD2	1.95	0.48
1:B:1092:LEU:HD21	1:B:1115:GLN:HE22	1.78	0.48
1:B:1148:GLY:HA2	1:B:1150:TRP:CZ3	2.48	0.48
1:L:1236:GLU:OE1	1:L:1240:ALA:N	2.46	0.48
1:H:771:GLN:HB2	1:H:773:PRO:HD2	1.94	0.48
1:E:122:VAL:HG13	1:E:127:VAL:HG22	1.96	0.48
1:E:386:ASN:C	1:E:393:ARG:HH21	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:484:VAL:HG12	1:E:504:TYR:HE2	1.76	0.48
1:E:543:LEU:HB2	1:E:546:ILE:HG13	1.95	0.48
1:E:571:LYS:HA	1:E:603:GLN:HE22	1.78	0.48
3:C:623:LEU:HD23	3:C:626:ALA:HB3	1.94	0.48
3:C:706:LYS:O	3:C:707:SER:OG	2.31	0.48
1:A:1389:GLY:O	1:A:1392:LYS:HB2	2.12	0.48
1:B:1021:HIS:HB3	1:B:1049:ASN:OD1	2.12	0.48
1:B:1166:GLU:OE2	1:B:1168:TYR:N	2.29	0.48
1:J:1588:ARG:NH2	4:N:221:SER:HB2	2.25	0.48
1:L:927:ASP:CG	1:L:928:LEU:H	2.16	0.48
1:E:338:ILE:HB	1:E:348:ALA:HB2	1.94	0.48
1:E:567:LEU:HD21	1:E:599:ILE:HG12	1.94	0.48
3:C:627:LEU:HA	3:C:630:PHE:HD2	1.78	0.48
3:C:706:LYS:NZ	3:C:708:PHE:HA	2.29	0.48
3:C:793:ARG:NH2	1:B:1221:VAL:CG1	2.76	0.48
3:C:794:ASN:CG	3:C:795:ASN:H	2.15	0.48
1:J:1526:GLU:OE1	1:J:1530:LYS:NZ	2.43	0.48
1:J:1597:PRO:C	4:I:214:ARG:HH21	2.17	0.48
1:K:1419:LEU:O	1:K:1423:LEU:HG	2.14	0.48
1:L:1115:GLN:O	1:L:1120:MET:N	2.47	0.48
1:L:1144:ALA:CA	1:L:1149:ASN:HD21	2.26	0.48
1:L:1242:ASP:HA	1:L:1245:ARG:NH2	2.27	0.48
1:E:243:PHE:CZ	1:E:246:LYS:HG2	2.49	0.48
1:E:339:THR:O	1:E:343:GLN:HA	2.13	0.48
1:E:351:MET:O	1:E:355:ASN:HB2	2.13	0.48
1:E:522:MET:HG3	1:E:549:ILE:HA	1.94	0.48
1:E:552:VAL:HA	1:E:555:GLU:OE1	2.13	0.48
3:C:392:LEU:HD23	3:C:397:THR:HB	1.95	0.48
3:C:429:LYS:HD3	3:C:458:GLU:CG	2.39	0.48
3:C:510:TYR:CD2	3:C:512:PRO:HB2	2.48	0.48
1:M:577:GLU:O	1:M:581:GLN:HG2	2.14	0.48
1:M:952:ASP:HB3	1:M:955:LEU:HD23	1.96	0.48
1:B:858:LEU:HB3	1:B:861:TRP:HE3	1.78	0.48
1:J:1492:ASN:HD22	1:J:1514:LEU:HB2	1.77	0.48
1:J:1579:PRO:O	1:K:1603:MET:HE1	2.12	0.48
1:K:1558:LEU:HD23	1:K:1563:ARG:HB3	1.95	0.48
1:L:1225:GLY:O	1:L:1229:SER:N	2.28	0.48
1:H:810:SER:O	1:H:813:PRO:HD2	2.13	0.48
1:E:267:SER:HB3	1:E:274:PHE:HE2	1.78	0.48
3:C:392:LEU:HD13	3:C:401:PHE:CE2	2.48	0.48
3:C:436:CYS:SG	3:C:457:LEU:HD11	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:599:ILE:HG22	3:C:604:MET:CB	2.35	0.48
3:C:709:GLU:O	3:C:713:TYR:HD2	1.97	0.48
3:C:755:ASP:H	3:C:758:ARG:HH21	1.61	0.48
1:A:1586:ALA:O	1:A:1591:ILE:N	2.29	0.48
1:B:1103:ASN:HA	1:B:1108:TRP:CZ2	2.42	0.48
1:B:1223:ASN:N	1:B:1227:LEU:HD23	2.28	0.48
1:B:1260:CYS:HB2	1:B:1269:ALA:HB2	1.96	0.48
4:D:148:GLU:HA	4:D:151:LYS:HE2	1.95	0.48
1:L:981:GLU:OE2	1:L:984:ASP:N	2.31	0.48
1:H:701:LEU:O	1:H:704:SER:OG	2.23	0.48
4:N:201:PHE:CE2	4:N:203:PRO:HG3	2.48	0.48
1:E:266:ILE:HG12	1:E:273:VAL:HG13	1.95	0.48
1:E:502:VAL:HG23	1:E:540:GLU:HG3	1.95	0.48
1:E:527:ASP:HA	1:E:561:GLN:NE2	2.29	0.48
1:E:603:GLN:HB3	1:E:607:HIS:HB2	1.95	0.48
1:E:605:PHE:HE1	1:E:633:LEU:HG	1.78	0.48
3:C:450:LYS:HB3	3:C:454:GLU:OE1	2.14	0.48
3:C:610:ARG:NH2	3:C:632:ASP:OD1	2.47	0.48
3:C:617:CYS:SG	3:C:626:ALA:HA	2.53	0.48
3:C:665:GLU:HA	3:C:668:ARG:HH21	1.78	0.48
1:M:788:VAL:HA	1:M:791:LEU:HB2	1.95	0.48
1:A:1547:THR:OG1	1:A:1548:GLU:N	2.46	0.48
1:A:1554:LEU:HA	1:A:1557:PHE:HB3	1.96	0.48
1:A:1571:PHE:HD1	4:D:214:ARG:CZ	2.26	0.48
1:B:1198:ILE:C	1:B:1200:GLN:H	2.17	0.48
1:J:1509:ARG:HG2	1:J:1510:ILE:HD13	1.96	0.48
1:J:1555:GLN:HA	1:J:1558:LEU:HD12	1.95	0.48
1:L:1451:TYR:O	1:L:1454:SER:OG	2.26	0.48
1:H:741:ILE:O	1:H:745:GLU:HG3	2.14	0.48
2:F:834:ARG:HB3	2:F:835:GLN:OE1	2.13	0.48
3:C:468:LYS:HE2	3:C:488:VAL:O	2.13	0.48
3:C:472:PRO:HG2	3:C:494:GLU:N	2.28	0.48
3:C:473:THR:CG2	3:C:497:GLN:H	2.27	0.48
3:C:837:ARG:CZ	3:C:840:PHE:HB2	2.44	0.48
3:C:841:SER:OG	3:C:844:GLU:HG2	2.13	0.48
3:C:859:LEU:N	3:C:860:PRO:HD2	2.29	0.48
1:B:973:GLN:O	1:B:977:THR:OG1	2.19	0.48
1:B:1067:GLU:O	1:B:1071:ILE:HG13	2.13	0.48
4:D:215:LEU:HD12	4:D:215:LEU:H	1.78	0.48
1:J:1536:ASP:HA	1:J:1539:GLN:HB3	1.95	0.48
1:E:62:ILE:HG23	1:E:64:ARG:CZ	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:112:LYS:NZ	1:E:156:TYR:O	2.34	0.48
1:E:152:GLN:N	1:E:170:ILE:O	2.42	0.48
1:E:265:GLN:HB2	1:E:315:ILE:HD12	1.96	0.48
1:E:309:HIS:ND1	1:E:326:SER:OG	2.47	0.48
1:E:605:PHE:HB3	1:E:610:ARG:HE	1.79	0.48
1:E:668:ARG:NH2	1:E:694:SER:OG	2.47	0.48
2:F:746:ALA:CB	1:M:721:PHE:N	2.71	0.48
3:C:498:VAL:HA	3:C:532:PHE:CE1	2.49	0.48
3:C:558:LEU:O	3:C:561:GLN:N	2.46	0.48
3:C:577:GLU:HG3	3:C:580:LEU:H	1.79	0.48
1:M:1006:GLU:O	1:M:1010:LYS:HG3	2.13	0.48
1:M:1059:ALA:HB1	1:M:1064:LEU:HD12	1.94	0.48
1:A:1267:ARG:O	1:A:1270:GLN:HB2	2.13	0.48
1:A:1300:ILE:O	1:A:1303:LEU:HB3	2.13	0.48
1:A:1377:THR:HA	1:A:1380:ASN:OD1	2.14	0.48
1:A:1615:ALA:O	1:A:1619:LEU:HD23	2.14	0.48
1:B:1025:GLN:HA	1:B:1028:LEU:HB3	1.95	0.48
1:B:1032:ALA:HB1	1:B:1040:VAL:HG12	1.94	0.48
1:B:1148:GLY:HA2	1:B:1150:TRP:HZ3	1.78	0.48
1:K:1579:PRO:O	1:K:1583:LEU:HG	2.14	0.48
1:L:1040:VAL:HA	1:L:1043:TYR:CD2	2.49	0.48
1:L:1152:GLU:N	1:L:1152:GLU:OE1	2.46	0.48
1:L:1199:GLN:HE22	1:L:1221:VAL:HG11	1.79	0.48
1:H:857:LEU:O	1:H:860:PRO:HD2	2.13	0.48
1:E:38:ILE:O	1:E:53:ILE:N	2.43	0.48
1:E:197:HIS:HB3	1:E:261:PRO:O	2.14	0.48
1:E:349:LEU:HG	1:E:363:LEU:HD13	1.96	0.48
1:E:682:CYS:HA	1:E:714:PHE:CE2	2.48	0.48
3:C:393:ARG:NH1	3:C:427:LEU:HB2	2.28	0.48
3:C:501:ILE:HD12	3:C:532:PHE:CE1	2.48	0.48
3:C:553:PHE:CE1	3:C:561:GLN:HB2	2.49	0.48
3:C:597:ASP:O	3:C:600:LEU:HB3	2.14	0.48
3:C:610:ARG:HH22	3:C:629:HIS:CA	2.27	0.48
1:M:749:ARG:O	1:M:752:ASN:ND2	2.28	0.48
1:M:812:LEU:O	1:M:815:VAL:HG22	2.14	0.48
1:M:897:ASN:OD1	1:M:899:TYR:N	2.47	0.48
1:M:933:VAL:O	1:M:936:GLU:HG2	2.14	0.48
1:B:934:CYS:SG	1:B:935:ASN:N	2.86	0.48
1:L:1105:PRO:HA	1:L:1108:TRP:CD1	2.37	0.48
1:L:1176:ALA:O	1:L:1179:LYS:HB2	2.14	0.48
1:H:819:LEU:HB3	1:H:824:CYS:SG	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:306:THR:HA	1:E:317:GLY:CA	2.43	0.48
3:C:473:THR:HG21	3:C:497:GLN:H	1.79	0.48
3:C:540:GLU:HG2	3:C:569:ALA:C	2.34	0.48
3:C:610:ARG:NH2	3:C:629:HIS:HA	2.29	0.48
3:C:778:CYS:O	3:C:782:ASP:N	2.46	0.48
1:M:604:MET:HG3	1:M:608:TYR:CD2	2.49	0.48
1:M:983:GLN:NE2	1:B:890:PRO:HA	2.29	0.48
1:M:1021:HIS:O	1:M:1025:GLN:N	2.34	0.48
1:A:1365:TYR:CZ	1:A:1373:ASN:HB2	2.49	0.48
1:L:1176:ALA:O	1:L:1180:THR:HG22	2.14	0.48
1:L:1215:LYS:HG2	1:L:1216:LEU:HD23	1.96	0.48
1:L:1296:PHE:O	1:L:1300:ILE:HG12	2.14	0.48
1:E:625:ARG:O	1:E:629:HIS:HD2	1.97	0.47
3:C:506:LYS:HZ3	3:C:538:GLN:HE21	1.62	0.47
3:C:509:GLY:HA2	3:C:510:TYR:HA	1.54	0.47
3:C:537:VAL:HB	3:C:569:ALA:HB2	1.96	0.47
1:M:663:SER:HA	1:M:666:CYS:HB3	1.96	0.47
1:M:791:LEU:HB3	1:M:796:LEU:HG	1.96	0.47
1:K:1460:ASN:HB3	1:K:1463:VAL:HG12	1.95	0.47
1:L:1117:GLN:HB2	1:L:1118:LYS:HZ3	1.77	0.47
1:L:1248:ASN:HA	1:L:1253:TRP:CZ2	2.48	0.47
1:H:768:LEU:HG	1:H:770:ASP:OD1	2.14	0.47
1:E:22:PRO:HA	1:E:25:ILE:HD12	1.96	0.47
1:E:155:ASN:OD1	1:E:156:TYR:N	2.46	0.47
1:E:426:GLN:HG3	1:E:455:ASP:O	2.15	0.47
3:C:476:LEU:CB	3:C:500:LYS:HE3	2.44	0.47
3:C:675:ILE:HG21	3:C:677:GLN:HE21	1.79	0.47
1:M:1007:LEU:HA	1:M:1010:LYS:NZ	2.29	0.47
1:A:1343:VAL:HG13	1:A:1348:VAL:HG11	1.95	0.47
1:A:1528:CYS:HA	1:A:1531:ASP:HB2	1.95	0.47
1:K:1504:LEU:O	1:K:1508:ARG:HG2	2.14	0.47
1:K:1554:LEU:HB3	1:K:1566:PHE:CZ	2.47	0.47
1:K:1575:ASP:HA	4:N:210:LYS:HZ3	1.79	0.47
1:H:749:ARG:O	1:H:780:ARG:NH2	2.47	0.47
1:H:849:VAL:HG11	1:H:858:LEU:HD22	1.96	0.47
1:E:80:ILE:O	1:E:91:PHE:N	2.41	0.47
1:E:274:PHE:CD1	1:E:284:LEU:HD13	2.48	0.47
1:E:372:PHE:CZ	1:E:380:ALA:HB1	2.48	0.47
1:E:594:GLN:HA	1:E:625:ARG:NH2	2.29	0.47
2:F:718:VAL:CG1	1:M:723:GLN:HG3	2.30	0.47
3:C:360:ALA:HB2	3:C:363:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:483:ASN:OD1	3:C:483:ASN:N	2.47	0.47
3:C:483:ASN:C	3:C:485:PRO:HD3	2.35	0.47
3:C:554:MET:C	3:C:557:ASN:H	2.17	0.47
1:M:700:GLU:HA	1:M:703:GLU:HG3	1.97	0.47
1:M:789:LEU:O	1:M:793:ARG:HG2	2.14	0.47
1:M:927:ASP:OD1	1:M:946:TYR:OH	2.20	0.47
1:A:1511:ALA:O	1:A:1514:LEU:HG	2.14	0.47
1:K:1538:MET:HG2	1:K:1572:THR:HG21	1.96	0.47
1:H:804:VAL:HG13	1:H:809:PRO:HA	1.96	0.47
1:E:21:ASN:ND2	1:E:23:ALA:HB3	2.30	0.47
1:E:344:ASN:HB3	1:E:347:LEU:HB2	1.96	0.47
1:E:437:ARG:HA	1:E:440:LEU:HD12	1.96	0.47
1:E:508:VAL:HA	1:E:509:GLY:C	2.34	0.47
1:E:545:ASP:OD2	1:E:548:GLN:NE2	2.48	0.47
3:C:524:ILE:HD11	3:C:526:PRO:HB2	1.96	0.47
3:C:543:LEU:HD23	3:C:549:ILE:HD11	1.96	0.47
3:C:608:TYR:CZ	3:C:613:ILE:HG22	2.50	0.47
3:C:635:ASP:OD1	3:C:638:ARG:NH1	2.47	0.47
3:C:765:GLU:HA	3:C:767:LYS:HZ3	1.79	0.47
3:C:782:ASP:OD1	3:C:784:VAL:HG22	2.15	0.47
3:C:793:ARG:NH2	1:B:1221:VAL:HG13	2.29	0.47
1:M:570:LEU:HD11	1:M:584:LEU:HD12	1.95	0.47
1:M:798:LYS:O	1:M:802:ILE:N	2.31	0.47
1:M:889:ASN:HB2	1:M:891:GLU:OE1	2.13	0.47
1:B:1025:GLN:O	1:B:1028:LEU:HB3	2.14	0.47
1:B:1158:GLN:O	1:B:1162:LYS:HG2	2.13	0.47
1:J:1580:ASP:OD1	1:J:1581:VAL:N	2.43	0.47
1:J:1582:VAL:HG21	1:J:1598:TYR:CZ	2.50	0.47
1:K:1462:SER:O	1:K:1465:GLU:HG3	2.15	0.47
1:L:1037:ARG:HB2	1:L:1039:ARG:HE	1.80	0.47
1:L:1213:ALA:O	1:L:1216:LEU:N	2.46	0.47
1:L:1290:TYR:O	1:L:1295:TYR:HB2	2.14	0.47
1:L:1430:LEU:HD12	1:L:1431:ASP:H	1.79	0.47
1:E:70:SER:HB3	1:E:111:TRP:CZ2	2.49	0.47
1:E:83:LYS:HG3	1:E:111:TRP:CE2	2.48	0.47
1:E:108:VAL:HG13	1:E:121:LEU:HB3	1.97	0.47
1:E:129:HIS:O	1:E:139:VAL:N	2.40	0.47
1:E:604:MET:HA	1:E:608:TYR:HB2	1.95	0.47
1:E:648:PRO:HB3	1:E:670:MET:CE	2.44	0.47
2:F:854:ILE:HD13	2:F:935:LEU:CD1	2.44	0.47
3:C:627:LEU:HD23	3:C:630:PHE:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:701:LEU:HA	3:C:701:LEU:HD23	1.64	0.47
3:C:772:LEU:H	3:C:773:PRO:HD3	1.79	0.47
3:C:810:SER:HA	3:C:839:GLN:HG2	1.96	0.47
1:M:825:SER:O	1:M:828:VAL:HG22	2.14	0.47
1:M:848:GLU:HA	1:M:851:LYS:HE3	1.96	0.47
1:A:1328:LYS:HB3	1:A:1331:LYS:HB3	1.97	0.47
1:A:1558:LEU:HA	1:A:1563:ARG:NE	2.22	0.47
1:J:1534:TYR:HA	1:J:1562:LYS:NZ	2.29	0.47
1:L:1420:ASN:ND2	1:L:1448:VAL:HA	2.30	0.47
4:N:125:GLU:HB2	4:N:129:ARG:HH22	1.80	0.47
1:E:8:ARG:N	1:E:328:CYS:O	2.43	0.47
1:E:15:LEU:HG	1:E:322:GLY:O	2.15	0.47
3:C:376:ASN:ND2	3:C:379:GLU:OE2	2.43	0.47
3:C:452:LEU:HD12	3:C:453:LYS:HG3	1.97	0.47
3:C:834:LEU:HG	3:C:860:PRO:HG3	1.96	0.47
1:M:711:LEU:HA	1:M:714:PHE:CB	2.45	0.47
1:M:1042:GLU:C	1:M:1046:ARG:HE	2.17	0.47
1:A:1356:HIS:CE1	4:D:114:LEU:HD13	2.48	0.47
1:A:1405:TYR:HA	1:A:1408:ILE:HG12	1.96	0.47
1:B:1203:ASP:HA	1:B:1206:TYR:CE2	2.50	0.47
1:J:1504:LEU:HD12	1:J:1507:PHE:CE1	2.50	0.47
1:K:1456:GLN:NE2	1:K:1463:VAL:HG22	2.30	0.47
1:L:1388:GLU:O	1:L:1392:LYS:HG3	2.14	0.47
1:E:14:GLN:HG2	1:E:17:ASN:H	1.80	0.47
1:E:166:LEU:HD12	1:E:182:GLN:C	2.35	0.47
1:E:368:PHE:CD2	1:E:392:LEU:HG	2.50	0.47
1:E:395:PRO:HD3	1:E:430:TYR:CG	2.49	0.47
1:E:453:LYS:HG2	1:E:481:ARG:NH2	2.25	0.47
1:E:559:ILE:H	1:E:559:ILE:HD12	1.80	0.47
1:E:650:TRP:HB3	1:E:654:TYR:HE2	1.79	0.47
3:C:383:VAL:O	3:C:387:ALA:HB2	2.14	0.47
3:C:452:LEU:HD13	3:C:478:VAL:CG2	2.44	0.47
3:C:570:LEU:HD11	3:C:581:GLN:HG2	1.95	0.47
3:C:610:ARG:HH22	3:C:629:HIS:HA	1.80	0.47
3:C:614:ALA:CA	3:C:629:HIS:HB2	2.39	0.47
3:C:674:ASN:O	3:C:675:ILE:HD13	2.14	0.47
3:C:752:ASN:CG	3:C:780:ARG:HH21	2.14	0.47
1:M:581:GLN:HB2	1:M:608:TYR:OH	2.15	0.47
1:M:703:GLU:HA	1:M:707:SER:OG	2.14	0.47
1:M:903:ARG:NE	1:M:926:CYS:SG	2.87	0.47
1:M:947:LEU:HB3	1:M:956:TRP:CH2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1021:HIS:HB2	1:M:1025:GLN:HB2	1.96	0.47
1:B:1251:ARG:O	1:B:1255:GLU:HG2	2.14	0.47
1:J:1566:PHE:HA	1:J:1569:CYS:SG	2.55	0.47
1:K:1529:LYS:O	1:K:1533:LEU:HD21	2.15	0.47
1:L:1230:THR:O	1:L:1234:LEU:HB2	2.15	0.47
1:H:809:PRO:HD2	1:H:839:GLN:NE2	2.29	0.47
1:E:25:ILE:HD13	1:E:322:GLY:HA3	1.97	0.47
1:E:163:LYS:HB2	1:E:164:TRP:CZ3	2.50	0.47
1:E:335:ILE:N	1:E:336:PRO:HD2	2.29	0.47
1:E:446:GLN:HA	1:E:449:GLU:CD	2.35	0.47
1:E:511:THR:N	1:E:512:PRO:HD2	2.30	0.47
3:C:464:GLY:O	3:C:468:LYS:HG3	2.15	0.47
3:C:531:GLN:HA	3:C:532:PHE:CD2	2.50	0.47
3:C:594:GLN:HA	3:C:594:GLN:OE1	2.15	0.47
3:C:760:LYS:C	3:C:764:LYS:HE3	2.34	0.47
3:C:762:PHE:CA	3:C:765:GLU:HG2	2.44	0.47
3:C:798:LYS:O	3:C:802:ILE:HG12	2.14	0.47
3:C:800:ILE:O	3:C:804:VAL:HG12	2.15	0.47
3:C:842:THR:O	3:C:846:VAL:HG22	2.15	0.47
1:M:711:LEU:O	1:M:711:LEU:HD23	2.15	0.47
1:M:715:LEU:O	1:M:719:VAL:N	2.42	0.47
1:M:762:PHE:O	1:M:766:ALA:N	2.38	0.47
1:M:879:LEU:HA	1:M:882:ILE:HG12	1.97	0.47
1:M:891:GLU:HA	1:M:894:LEU:HD12	1.96	0.47
1:M:1070:ALA:O	1:M:1074:LYS:CB	2.63	0.47
1:A:1554:LEU:O	1:A:1558:LEU:HG	2.15	0.47
1:B:967:ARG:HH21	1:B:1000:LEU:HD11	1.80	0.47
1:B:1167:SER:HA	1:B:1170:GLU:OE1	2.15	0.47
4:D:109:GLU:OE1	4:D:113:ARG:NH2	2.34	0.47
1:K:1442:VAL:HG22	1:K:1444:GLN:HG2	1.97	0.47
1:K:1535:LYS:HG2	1:K:1538:MET:HE3	1.95	0.47
1:L:953:PRO:HA	1:L:956:TRP:HB2	1.97	0.47
1:L:1349:LEU:HD23	1:L:1350:ARG:HD2	1.97	0.47
1:E:89:GLN:HA	1:E:101:ALA:HA	1.95	0.47
1:E:146:SER:HA	1:E:149:ALA:HB2	1.96	0.47
1:E:613:ILE:HA	1:E:616:LEU:HG	1.97	0.47
3:C:465:ASP:OD2	3:C:479:TYR:OH	2.32	0.47
3:C:660:VAL:O	3:C:660:VAL:HG13	2.14	0.47
3:C:725:PRO:O	3:C:758:ARG:NH2	2.47	0.47
1:M:805:GLN:HG3	1:M:806:LYS:N	2.30	0.47
1:M:829:ILE:H	1:M:829:ILE:HD12	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:847:ALA:O	1:M:851:LYS:HG3	2.15	0.47
1:A:1603:MET:O	1:A:1607:LEU:HB2	2.15	0.47
1:B:842:THR:O	1:B:845:LEU:HG	2.15	0.47
1:K:1554:LEU:HD21	1:K:1570:LEU:HA	1.97	0.47
1:L:1279:HIS:HB3	1:L:1281:ASP:OD1	2.14	0.47
1:L:1319:GLU:HA	1:L:1322:ILE:HD12	1.95	0.47
1:H:779:ASP:HB2	1:H:811:ARG:CZ	2.44	0.47
1:E:13:LEU:O	1:E:323:GLN:HA	2.14	0.47
3:C:464:GLY:HA3	3:C:479:TYR:CZ	2.50	0.47
3:C:468:LYS:HA	3:C:472:PRO:HA	1.97	0.47
3:C:540:GLU:OE1	3:C:580:LEU:HD22	2.15	0.47
3:C:609:ASP:O	3:C:613:ILE:HG23	2.14	0.47
1:M:711:LEU:HA	1:M:714:PHE:HB2	1.97	0.47
1:A:1260:CYS:O	1:A:1264:LYS:N	2.48	0.47
1:A:1495:LEU:HA	1:A:1498:ARG:HD2	1.97	0.47
4:D:207:LYS:HE3	4:D:212:VAL:HG22	1.96	0.47
1:K:1433:THR:OG1	1:K:1434:ARG:N	2.48	0.47
1:K:1476:ASP:OD1	1:K:1477:TYR:N	2.48	0.47
1:L:1199:GLN:NE2	1:L:1221:VAL:HG11	2.30	0.47
1:E:201:PHE:HA	1:E:216:PHE:HA	1.97	0.46
3:C:532:PHE:O	3:C:536:LEU:CB	2.60	0.46
3:C:610:ARG:NH1	3:C:629:HIS:HA	2.30	0.46
1:A:1347:LYS:HA	1:A:1350:ARG:NH2	2.30	0.46
1:A:1384:ASP:OD1	1:A:1384:ASP:N	2.48	0.46
1:B:858:LEU:HD22	1:B:861:TRP:CE3	2.50	0.46
1:B:1168:TYR:O	1:B:1171:THR:OG1	2.33	0.46
1:L:971:ILE:O	1:L:975:VAL:HG13	2.15	0.46
1:L:1376:ILE:O	1:L:1380:ASN:ND2	2.49	0.46
4:N:196:ALA:O	4:N:200:ASP:HB2	2.15	0.46
2:F:752:ASP:O	2:F:808:LYS:HE2	2.14	0.46
2:F:899:ILE:HD12	2:F:899:ILE:N	2.28	0.46
3:C:437:ARG:HB3	3:C:438:PRO:HD3	1.97	0.46
3:C:506:LYS:HD2	3:C:536:LEU:HA	1.97	0.46
3:C:519:ARG:O	3:C:523:ARG:HG2	2.15	0.46
3:C:534:GLN:HB2	3:C:565:PHE:CB	2.44	0.46
3:C:841:SER:O	3:C:844:GLU:HG2	2.14	0.46
1:A:1588:ARG:HH22	4:I:220:MET:C	2.18	0.46
1:B:1010:LYS:HZ1	1:B:1013:LEU:HD22	1.80	0.46
1:B:1222:SER:HB3	1:B:1224:PHE:CZ	2.50	0.46
1:K:1563:ARG:HD2	1:K:1594:PHE:HZ	1.80	0.46
1:K:1619:LEU:O	1:K:1622:GLU:HG3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1043:TYR:O	1:L:1046:ARG:N	2.45	0.46
1:L:1309:LEU:HD11	1:L:1317:PHE:CE1	2.51	0.46
1:L:1310:GLU:OE1	1:L:1310:GLU:N	2.48	0.46
1:E:7:ILE:HA	1:E:330:GLU:H	1.79	0.46
1:E:113:TRP:HZ3	1:E:117:ASN:C	2.18	0.46
1:E:309:HIS:NE2	1:E:311:ALA:HB3	2.31	0.46
1:E:664:LEU:O	1:E:668:ARG:HG3	2.16	0.46
3:C:392:LEU:HD23	3:C:392:LEU:HA	1.79	0.46
3:C:498:VAL:HG22	3:C:532:PHE:CE1	2.50	0.46
3:C:610:ARG:HH12	3:C:629:HIS:HA	1.80	0.46
1:M:629:HIS:O	1:M:633:LEU:N	2.48	0.46
1:A:1373:ASN:HA	1:A:1376:ILE:HD12	1.97	0.46
1:A:1586:ALA:HB1	1:A:1591:ILE:O	2.15	0.46
1:B:819:LEU:HD11	1:B:829:ILE:HD13	1.97	0.46
1:B:984:ASP:HB2	1:B:986:GLU:OE2	2.15	0.46
1:B:1251:ARG:HA	1:B:1254:LYS:HE2	1.97	0.46
1:J:1469:ASN:HA	1:J:1472:ILE:HD12	1.97	0.46
1:L:995:PHE:HB3	1:L:1005:ILE:HG12	1.96	0.46
1:E:414:LEU:HA	1:E:417:TYR:HD2	1.80	0.46
1:E:658:LEU:HD22	1:E:689:TYR:CZ	2.51	0.46
1:E:702:PHE:HB3	1:E:707:SER:OG	2.15	0.46
2:F:892:LYS:HE3	2:F:898:TRP:CZ2	2.50	0.46
3:C:533:ALA:O	3:C:536:LEU:HB3	2.16	0.46
3:C:676:ARG:HG3	3:C:679:LEU:HD11	1.97	0.46
3:C:802:ILE:HA	3:C:805:GLN:HB3	1.98	0.46
1:M:743:GLU:O	1:M:746:ARG:NE	2.48	0.46
1:M:991:THR:HG22	1:M:995:PHE:CZ	2.51	0.46
1:B:1084:VAL:O	1:B:1088:HIS:HB2	2.15	0.46
1:B:1250:THR:HA	1:B:1253:TRP:CD1	2.37	0.46
1:J:1615:ALA:O	1:J:1619:LEU:HD23	2.15	0.46
1:K:1515:PHE:O	1:K:1519:ASN:N	2.48	0.46
1:L:1023:ASN:HD21	1:L:1027:LEU:HD23	1.81	0.46
1:E:83:LYS:CG	1:E:111:TRP:CZ2	2.99	0.46
1:E:657:SER:HA	1:E:667:LEU:HD22	1.97	0.46
1:E:708:PHE:HA	1:E:711:LEU:HD12	1.97	0.46
3:C:676:ARG:HA	3:C:679:LEU:CD1	2.46	0.46
1:A:1300:ILE:O	1:A:1304:GLU:HG2	2.16	0.46
1:B:864:ALA:HA	1:B:867:HIS:ND1	2.31	0.46
1:B:919:VAL:O	1:B:922:GLU:HB3	2.15	0.46
1:B:1052:ALA:N	1:B:1053:PRO:HD2	2.30	0.46
1:J:1552:GLU:HG2	1:J:1553:LEU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1477:TYR:HA	1:K:1480:LEU:HB3	1.96	0.46
1:K:1544:SER:O	1:K:1545:LYS:HG2	2.15	0.46
1:K:1555:GLN:HA	1:K:1558:LEU:HD12	1.97	0.46
1:L:947:LEU:HD22	1:L:956:TRP:CD1	2.51	0.46
1:L:1091:ASN:OD1	1:L:1094:ARG:N	2.47	0.46
1:L:1314:MET:HA	1:L:1317:PHE:CD2	2.50	0.46
1:H:798:LYS:O	1:H:802:ILE:HG12	2.16	0.46
1:E:10:GLN:N	1:E:326:SER:O	2.45	0.46
1:E:260:PHE:CD1	1:E:278:LYS:HB2	2.50	0.46
1:E:301:GLU:HG3	1:E:321:LYS:HE2	1.98	0.46
1:E:518:LEU:HD12	1:E:545:ASP:N	2.31	0.46
1:E:658:LEU:HB3	1:E:689:TYR:CE1	2.50	0.46
1:E:676:ARG:HB2	1:E:705:PHE:CD1	2.48	0.46
3:C:480:LEU:HD12	3:C:504:TYR:OH	2.14	0.46
3:C:487:LYS:HA	3:C:510:TYR:OH	2.15	0.46
3:C:780:ARG:HB3	3:C:781:PHE:CD2	2.51	0.46
3:C:813:PRO:O	3:C:816:ILE:HB	2.15	0.46
1:M:1026:ASN:OD1	1:M:1026:ASN:N	2.46	0.46
1:A:1324:TYR:CD2	1:A:1332:MET:HA	2.51	0.46
1:A:1557:PHE:HA	1:A:1560:GLU:OE2	2.15	0.46
4:O:122:LYS:O	4:O:125:GLU:HG2	2.15	0.46
1:J:1585:THR:HG1	1:J:1589:HIS:HD1	1.63	0.46
1:K:1566:PHE:HB3	1:K:1594:PHE:CD2	2.51	0.46
1:L:986:GLU:N	1:L:986:GLU:OE1	2.48	0.46
1:L:1213:ALA:O	1:L:1217:LEU:HG	2.16	0.46
1:L:1434:ARG:HH12	1:L:1438:TYR:N	2.13	0.46
1:H:647:ASN:ND2	1:H:650:TRP:H	2.13	0.46
4:I:192:TRP:HA	4:I:195:VAL:HG12	1.98	0.46
1:E:33:GLU:HG3	1:E:113:TRP:CD1	2.48	0.46
1:E:434:GLU:HG3	1:E:437:ARG:HH11	1.81	0.46
1:E:633:LEU:HB3	1:E:635:ASP:OD2	2.16	0.46
1:E:644:HIS:NE2	1:E:666:CYS:HB3	2.31	0.46
3:C:510:TYR:HE2	3:C:516:PHE:CE2	2.33	0.46
3:C:574:ARG:CG	3:C:575:PRO:HD3	2.44	0.46
3:C:717:SER:HG	3:C:721:PHE:HE2	1.64	0.46
3:C:755:ASP:H	3:C:758:ARG:CZ	2.29	0.46
3:C:798:LYS:HD3	3:C:801:GLU:OE1	2.15	0.46
1:M:658:LEU:HB2	1:M:688:LYS:HZ3	1.79	0.46
1:M:774:LEU:HD23	1:M:775:ILE:H	1.80	0.46
1:M:984:ASP:HB2	1:M:986:GLU:OE1	2.16	0.46
1:A:1314:MET:HB2	1:A:1342:ARG:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:904:VAL:HA	1:B:907:LYS:HG3	1.96	0.46
4:D:216:ARG:HG2	4:D:217:SER:N	2.31	0.46
4:O:155:ARG:O	4:O:155:ARG:HD3	2.16	0.46
1:L:1242:ASP:HA	1:L:1245:ARG:HE	1.81	0.46
1:L:1267:ARG:O	1:L:1271:MET:HG3	2.16	0.46
1:L:1409:GLN:HB2	1:L:1438:TYR:OH	2.16	0.46
1:L:1417:LEU:HG	1:L:1418:LEU:N	2.31	0.46
1:E:21:ASN:HB3	1:E:24:ASN:HD22	1.79	0.46
3:C:398:ILE:CD1	3:C:417:TYR:CZ	2.98	0.46
3:C:439:VAL:HG23	3:C:444:ARG:HG3	1.96	0.46
3:C:448:LEU:HD11	3:C:457:LEU:CD1	2.46	0.46
3:C:502:VAL:HB	3:C:536:LEU:CA	2.46	0.46
3:C:507:LYS:HB3	3:C:507:LYS:HE2	1.61	0.46
1:M:680:GLN:HG3	1:M:684:GLN:HE21	1.81	0.46
1:M:808:ASN:ND2	1:M:810:SER:OG	2.48	0.46
4:D:149:LYS:O	4:D:152:ILE:HG12	2.15	0.46
1:J:1566:PHE:CD2	1:J:1570:LEU:HD23	2.51	0.46
1:K:1502:HIS:HB3	1:K:1507:PHE:HB3	1.96	0.46
1:L:1287:ILE:HG22	1:L:1291:GLN:OE1	2.15	0.46
1:L:1422:LEU:O	1:L:1426:LEU:HD23	2.14	0.46
1:E:1:MET:CE	2:F:896:GLY:O	2.64	0.46
1:E:199:ALA:HB1	1:E:216:PHE:CZ	2.50	0.46
1:E:522:MET:HA	1:E:553:PHE:CZ	2.50	0.46
1:E:627:LEU:HD23	1:E:630:PHE:HD2	1.81	0.46
2:F:860:ASN:CB	2:F:862:ASP:OD1	2.61	0.46
3:C:697:SER:O	3:C:700:GLU:HB2	2.16	0.46
3:C:798:LYS:O	3:C:801:GLU:HB3	2.16	0.46
3:C:825:SER:OG	3:C:826:GLU:N	2.47	0.46
1:M:876:HIS:HA	1:M:879:LEU:HD12	1.97	0.46
1:M:890:PRO:O	1:M:894:LEU:HG	2.16	0.46
1:M:945:ARG:CZ	1:M:949:ARG:HG3	2.46	0.46
1:M:1025:GLN:O	1:M:1029:ILE:N	2.45	0.46
1:A:1296:PHE:O	1:A:1299:LEU:HG	2.16	0.46
1:A:1461:LYS:HZ2	1:A:1489:ASN:C	2.19	0.46
1:K:1370:GLU:HA	1:K:1373:ASN:HB3	1.98	0.46
1:K:1504:LEU:N	1:K:1508:ARG:HH12	2.14	0.46
1:L:1217:LEU:O	1:L:1221:VAL:HG23	2.16	0.46
1:E:129:HIS:CE1	1:E:141:MET:HB2	2.51	0.46
1:E:163:LYS:HB2	1:E:164:TRP:CE3	2.51	0.46
1:E:710:GLY:HA2	1:E:713:TYR:CD2	2.51	0.46
2:F:770:LEU:HD11	2:F:784:VAL:HG11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:465:ASP:CA	3:C:468:LYS:HG3	2.41	0.46
3:C:468:LYS:CB	3:C:492:PHE:HB2	2.40	0.46
3:C:534:GLN:HG3	3:C:568:ASP:OD2	2.16	0.46
3:C:803:TYR:O	3:C:807:VAL:HB	2.16	0.46
1:M:921:TYR:O	1:M:925:GLN:N	2.48	0.46
1:M:939:LEU:HD23	1:M:942:SER:N	2.26	0.46
1:A:1515:PHE:CG	1:A:1524:SER:HB3	2.51	0.46
1:A:1549:LEU:O	1:A:1553:LEU:HG	2.16	0.46
1:B:864:ALA:HA	1:B:867:HIS:CE1	2.51	0.46
1:B:1215:LYS:HG2	1:B:1219:ASN:HD21	1.81	0.46
4:D:154:ASN:HB2	4:D:155:ARG:HH12	1.81	0.46
1:J:1471:PHE:HB3	1:J:1476:ASP:HB3	1.98	0.46
1:K:1493:ILE:O	1:K:1497:GLN:NE2	2.32	0.46
1:E:152:GLN:HB3	1:E:170:ILE:HG13	1.99	0.45
3:C:436:CYS:SG	3:C:448:LEU:HD11	2.56	0.45
3:C:849:VAL:HA	3:C:852:ARG:HB2	1.97	0.45
1:M:615:GLN:O	1:M:619:LYS:HG2	2.16	0.45
1:M:760:LYS:O	1:M:764:LYS:HE3	2.16	0.45
1:M:872:GLU:O	1:M:876:HIS:HD2	1.98	0.45
1:A:1279:HIS:HB3	1:A:1281:ASP:OD1	2.16	0.45
1:B:823:ASP:OD1	1:B:852:ARG:NE	2.39	0.45
4:O:114:LEU:HD23	4:O:117:LEU:HD12	1.98	0.45
1:L:1205:CYS:HA	1:L:1210:MET:HG3	1.98	0.45
1:L:1334:GLU:HG2	1:L:1335:HIS:H	1.81	0.45
1:H:637:LYS:HE2	1:H:638:ARG:HH12	1.81	0.45
1:E:129:HIS:N	1:E:139:VAL:O	2.35	0.45
1:E:167:LEU:N	1:E:182:GLN:O	2.29	0.45
1:E:184:TYR:CE2	1:E:186:VAL:HA	2.50	0.45
1:E:243:PHE:HZ	1:E:246:LYS:HG2	1.81	0.45
1:E:270:HIS:HB2	1:E:272:VAL:HG22	1.99	0.45
1:E:280:GLY:HA3	1:E:299:SER:O	2.17	0.45
1:E:522:MET:HG3	1:E:549:ILE:HG12	1.98	0.45
1:E:664:LEU:HA	1:E:667:LEU:HD12	1.98	0.45
3:C:542:PRO:HG3	3:C:577:GLU:OE2	2.16	0.45
3:C:747:ILE:HA	3:C:750:GLU:HB2	1.98	0.45
1:M:948:VAL:O	1:M:949:ARG:HD2	2.17	0.45
1:M:960:LEU:HA	1:M:967:ARG:HH21	1.81	0.45
1:A:1497:GLN:HA	1:A:1500:GLU:CD	2.37	0.45
1:J:1570:LEU:HD21	1:J:1594:PHE:CD2	2.51	0.45
1:L:1025:GLN:HG3	1:L:1047:LEU:HD11	1.98	0.45
1:L:1177:LEU:O	1:L:1181:ASN:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:689:TYR:O	1:H:692:GLN:HG2	2.15	0.45
1:H:784:VAL:O	1:H:788:VAL:HG22	2.16	0.45
1:E:119:VAL:O	1:E:130:TRP:N	2.32	0.45
3:C:491:CYS:O	3:C:492:PHE:HD1	1.99	0.45
3:C:538:GLN:C	3:C:569:ALA:HA	2.37	0.45
3:C:627:LEU:HB2	3:C:649:GLU:OE2	2.17	0.45
1:M:741:ILE:O	1:M:744:VAL:N	2.43	0.45
1:M:860:PRO:HA	1:M:863:GLU:CD	2.37	0.45
1:M:937:ASN:OD1	1:M:937:ASN:N	2.47	0.45
1:A:1262:ASP:O	1:A:1264:LYS:HE2	2.16	0.45
1:A:1387:LYS:HD3	1:A:1389:GLY:N	2.32	0.45
1:B:1220:ASN:OD1	1:B:1221:VAL:HG23	2.16	0.45
1:H:699:ILE:HG22	1:H:714:PHE:HE2	1.80	0.45
1:E:83:LYS:NZ	1:E:111:TRP:CE2	2.84	0.45
1:E:451:TRP:O	1:E:456:LYS:N	2.49	0.45
1:E:486:ASN:O	1:E:490:GLN:HG3	2.16	0.45
1:E:508:VAL:HG22	1:E:514:TRP:NE1	2.32	0.45
1:E:567:LEU:HD21	1:E:599:ILE:HG23	1.98	0.45
3:C:571:LYS:HA	3:C:603:GLN:HE22	1.81	0.45
3:C:677:GLN:O	3:C:681:ILE:HG12	2.15	0.45
3:C:717:SER:O	3:C:721:PHE:CD2	2.70	0.45
3:C:790:TYR:HA	3:C:793:ARG:HD3	1.97	0.45
3:C:791:LEU:HA	3:C:794:ASN:ND2	2.17	0.45
1:M:680:GLN:O	1:M:684:GLN:HG3	2.16	0.45
1:M:967:ARG:O	1:M:970:LEU:HG	2.16	0.45
1:A:1521:TRP:C	1:A:1522:LYS:HG2	2.37	0.45
1:B:854:ARG:O	1:B:857:LEU:HG	2.16	0.45
1:J:1575:ASP:N	4:I:210:LYS:HD3	2.31	0.45
1:J:1595:ALA:N	1:J:1597:PRO:HD2	2.32	0.45
1:K:1375:ILE:HD13	1:K:1391:PHE:CZ	2.52	0.45
1:L:1008:LEU:HA	1:L:1011:ILE:HG12	1.99	0.45
1:H:738:THR:O	1:H:740:GLN:HG2	2.16	0.45
1:H:757:GLU:O	1:H:760:LYS:HG2	2.17	0.45
1:E:64:ARG:O	1:E:66:ILE:N	2.45	0.45
1:E:230:ILE:O	1:E:246:LYS:N	2.23	0.45
1:E:414:LEU:HD22	1:E:418:PHE:CZ	2.52	0.45
1:E:523:ARG:HH21	1:E:552:VAL:CG2	2.30	0.45
1:E:599:ILE:O	1:E:604:MET:HB2	2.17	0.45
3:C:728:HIS:O	3:C:731:TYR:HB3	2.16	0.45
1:M:612:HIS:CE1	1:M:616:LEU:HD11	2.52	0.45
1:M:650:TRP:CE3	1:M:651:LEU:HB2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:750:GLU:O	1:M:752:ASN:ND2	2.49	0.45
1:M:871:GLU:OE1	1:M:871:GLU:N	2.46	0.45
1:A:1333:ARG:O	1:A:1337:GLU:HG2	2.16	0.45
1:A:1408:ILE:HG22	1:A:1419:LEU:HD11	1.98	0.45
1:A:1433:THR:O	1:A:1436:VAL:HG22	2.17	0.45
1:J:1512:ALA:HA	1:J:1515:PHE:CD2	2.52	0.45
1:K:1477:TYR:O	1:K:1481:ARG:N	2.38	0.45
1:L:1054:ASP:HA	1:L:1057:ASN:HD22	1.81	0.45
1:L:1099:ALA:HB3	1:L:1107:VAL:HG11	1.99	0.45
1:E:91:PHE:CE1	1:E:101:ALA:HB2	2.52	0.45
1:E:266:ILE:HG12	1:E:273:VAL:HG22	1.99	0.45
1:E:284:LEU:N	1:E:294:TYR:O	2.35	0.45
1:E:345:PRO:HB2	1:E:363:LEU:HD21	1.97	0.45
1:E:399:ARG:HA	1:E:402:GLN:OE1	2.17	0.45
1:E:468:LYS:HG3	1:E:475:ALA:CB	2.47	0.45
2:F:718:VAL:CB	1:M:723:GLN:HE21	2.30	0.45
2:F:861:ALA:HB1	2:F:887:LEU:HD21	1.97	0.45
3:C:813:PRO:HG3	3:C:840:PHE:CE1	2.52	0.45
1:M:879:LEU:O	1:M:882:ILE:HG12	2.17	0.45
1:M:955:LEU:O	1:M:958:SER:OG	2.17	0.45
1:A:1288:ASN:HA	1:A:1291:GLN:NE2	2.31	0.45
1:A:1313:HIS:HD2	1:A:1314:MET:SD	2.40	0.45
1:B:826:GLU:HG2	1:B:827:ASP:H	1.82	0.45
1:B:829:ILE:HG13	1:B:833:ILE:HD11	1.99	0.45
1:B:1072:PHE:O	1:B:1076:ASP:N	2.49	0.45
1:B:1251:ARG:N	1:B:1251:ARG:HD2	2.31	0.45
1:J:1581:VAL:O	1:J:1585:THR:HG22	2.17	0.45
1:K:1493:ILE:H	1:K:1493:ILE:HD12	1.82	0.45
1:K:1502:HIS:HB3	1:K:1507:PHE:CB	2.46	0.45
1:L:1324:TYR:CD2	1:L:1332:MET:HB3	2.52	0.45
1:L:1436:VAL:HG21	1:L:1462:SER:OG	2.17	0.45
1:H:671:LEU:O	1:H:674:ASN:HB2	2.17	0.45
1:H:714:PHE:O	1:H:717:SER:OG	2.23	0.45
1:H:772:LEU:HD23	1:H:775:ILE:HD11	1.99	0.45
1:E:88:LEU:N	1:E:102:HIS:O	2.50	0.45
1:E:445:LYS:O	1:E:449:GLU:HG3	2.16	0.45
1:E:685:VAL:O	1:E:689:TYR:HB2	2.17	0.45
3:C:503:LEU:O	3:C:507:LYS:HB3	2.17	0.45
3:C:525:SER:OG	3:C:526:PRO:HD3	2.16	0.45
3:C:723:GLN:HG2	3:C:724:ASP:N	2.31	0.45
1:M:613:ILE:HA	1:M:616:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1326:LYS:HG3	1:A:1327:PHE:HD1	1.81	0.45
1:A:1365:TYR:HD1	1:A:1370:GLU:HB3	1.82	0.45
1:A:1547:THR:HG23	1:A:1548:GLU:HG3	1.99	0.45
4:O:129:ARG:HG3	1:L:1413:GLU:HG3	1.99	0.45
1:K:1506:GLU:OE1	1:K:1509:ARG:NH1	2.49	0.45
1:L:1376:ILE:HD12	1:L:1406:ARG:HH12	1.81	0.45
1:E:69:ASP:N	1:E:83:LYS:O	2.45	0.45
1:E:433:LEU:HD13	1:E:437:ARG:NH2	2.32	0.45
1:E:434:GLU:HG3	1:E:437:ARG:NH1	2.32	0.45
1:E:559:ILE:HA	1:E:562:CYS:SG	2.57	0.45
2:F:891:LEU:CD1	2:F:899:ILE:HB	2.47	0.45
3:C:605:PHE:HE1	3:C:610:ARG:HE	1.63	0.45
3:C:778:CYS:SG	3:C:783:PHE:HB2	2.57	0.45
1:M:1070:ALA:O	1:M:1074:LYS:HB2	2.16	0.45
1:A:1376:ILE:HA	1:A:1406:ARG:NH2	2.31	0.45
1:A:1566:PHE:CD1	1:A:1569:CYS:HB2	2.52	0.45
1:B:1107:VAL:O	1:B:1111:LEU:HG	2.16	0.45
1:K:1481:ARG:NH1	1:K:1510:ILE:HD11	2.32	0.45
1:K:1603:MET:O	1:K:1607:LEU:N	2.37	0.45
1:L:1006:GLU:HG2	1:L:1010:LYS:NZ	2.32	0.45
1:L:1381:HIS:HB3	1:L:1384:ASP:OD2	2.17	0.45
1:E:79:VAL:HG22	1:E:92:ASN:HB2	1.98	0.45
1:E:159:ASP:C	1:E:162:GLN:H	2.19	0.45
1:E:204:PHE:CE2	1:E:206:MET:HA	2.51	0.45
1:E:414:LEU:HA	1:E:414:LEU:HD23	1.80	0.45
1:E:510:TYR:HB3	1:E:512:PRO:HD2	1.99	0.45
1:E:697:SER:HA	1:E:700:GLU:OE1	2.16	0.45
3:C:493:ALA:O	3:C:494:GLU:C	2.55	0.45
3:C:803:TYR:CE1	3:C:807:VAL:HG11	2.52	0.45
1:M:638:ARG:HE	1:H:806:LYS:NZ	2.15	0.45
1:M:728:HIS:O	1:M:731:TYR:HB3	2.17	0.45
1:M:903:ARG:NH1	1:M:929:GLU:OE2	2.50	0.45
1:M:1000:LEU:HB3	1:M:1004:LEU:CB	2.47	0.45
1:M:1020:GLU:O	1:M:1024:LEU:HD12	2.16	0.45
1:A:1400:ASN:HB2	1:A:1402:GLU:OE1	2.16	0.45
1:A:1525:VAL:HA	1:A:1528:CYS:SG	2.57	0.45
1:A:1587:TRP:CH2	1:J:1597:PRO:HD3	2.52	0.45
1:B:1140:VAL:HG21	1:B:1156:TYR:CZ	2.51	0.45
4:D:100:PRO:HG2	4:D:101:GLU:OE2	2.17	0.45
1:J:1512:ALA:O	1:J:1515:PHE:HB2	2.17	0.45
1:K:1372:ASP:OD1	1:K:1373:ASN:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1396:THR:O	1:K:1429:ARG:NH1	2.49	0.45
1:L:1469:ASN:O	1:L:1472:ILE:HB	2.17	0.45
1:E:15:LEU:HD12	1:E:322:GLY:HA2	1.98	0.45
1:E:90:ILE:O	1:E:99:MET:HB3	2.17	0.45
1:E:159:ASP:HB3	1:E:163:LYS:N	2.32	0.45
1:E:462:GLU:O	1:E:466:LEU:HG	2.17	0.45
2:F:716:PRO:HG2	2:F:719:LYS:HD2	1.99	0.45
2:F:899:ILE:N	2:F:899:ILE:CD1	2.80	0.45
3:C:398:ILE:HD11	3:C:402:GLN:NE2	2.32	0.45
3:C:508:VAL:HA	3:C:509:GLY:HA2	1.49	0.45
3:C:579:PRO:HA	3:C:582:THR:HB	1.98	0.45
3:C:603:GLN:NE2	3:C:607:HIS:CE1	2.80	0.45
3:C:627:LEU:HA	3:C:627:LEU:HD23	1.61	0.45
1:A:1380:ASN:O	1:A:1381:HIS:ND1	2.50	0.45
1:A:1478:GLN:O	1:A:1482:THR:HG23	2.16	0.45
1:J:1570:LEU:HD21	1:J:1594:PHE:HD2	1.82	0.45
1:H:786:ASP:N	1:H:786:ASP:OD1	2.46	0.45
1:E:477:SER:O	1:E:480:LEU:HB2	2.17	0.44
1:E:586:GLU:CG	1:E:616:LEU:HD22	2.47	0.44
1:E:699:ILE:HD13	1:E:715:LEU:HD21	1.99	0.44
3:C:421:LEU:O	3:C:425:GLY:N	2.38	0.44
3:C:436:CYS:SG	3:C:448:LEU:HD21	2.57	0.44
3:C:714:PHE:O	3:C:718:ILE:HG13	2.17	0.44
1:M:725:PRO:HA	1:M:728:HIS:CD2	2.52	0.44
1:M:1063:GLU:HG2	1:M:1064:LEU:HD23	1.99	0.44
1:A:1314:MET:O	1:A:1318:THR:HG23	2.17	0.44
1:A:1387:LYS:HD3	1:A:1389:GLY:H	1.82	0.44
1:A:1535:LYS:O	1:A:1538:MET:N	2.49	0.44
1:A:1609:LYS:O	1:A:1612:LYS:HG3	2.17	0.44
1:B:862:LEU:O	1:B:866:ILE:HG12	2.17	0.44
1:B:962:GLU:H	1:B:967:ARG:HH11	1.63	0.44
1:B:1034:LYS:HA	1:B:1034:LYS:HD3	1.85	0.44
1:B:1152:GLU:OE1	1:B:1152:GLU:N	2.50	0.44
4:D:134:LYS:HA	4:D:137:GLU:OE1	2.17	0.44
4:O:118:ASP:O	4:O:121:SER:OG	2.29	0.44
1:K:1513:TYR:HD2	1:K:1516:LYS:HE2	1.81	0.44
1:L:936:GLU:N	1:L:936:GLU:OE2	2.49	0.44
1:L:1209:LYS:HG3	1:L:1211:TYR:OH	2.16	0.44
1:L:1288:ASN:HD22	1:L:1291:GLN:NE2	2.14	0.44
1:L:1388:GLU:H	1:L:1388:GLU:CD	2.20	0.44
1:E:506:LYS:HZ1	1:E:539:ASP:HB3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:594:GLN:H	1:E:594:GLN:HG3	1.47	0.44
2:F:797:MET:HE3	2:F:802:ASN:HB3	1.99	0.44
3:C:585:LEU:HD13	3:C:608:TYR:CE2	2.51	0.44
1:A:1285:GLU:HA	1:A:1288:ASN:HD22	1.81	0.44
1:A:1402:GLU:HA	1:A:1405:TYR:CD2	2.50	0.44
1:A:1557:PHE:HE2	1:A:1566:PHE:HB2	1.82	0.44
1:B:858:LEU:HD22	1:B:861:TRP:CD2	2.52	0.44
1:B:883:TYR:HE2	1:B:893:PHE:CE2	2.34	0.44
1:K:1395:ILE:O	1:K:1429:ARG:NH2	2.51	0.44
1:L:1166:GLU:O	1:L:1195:ASN:ND2	2.49	0.44
1:L:1209:LYS:HA	1:L:1211:TYR:CE1	2.52	0.44
4:I:195:VAL:HA	4:I:198:LEU:HB3	1.97	0.44
1:E:188:ARG:NH1	1:E:234:GLY:HA2	2.31	0.44
1:E:630:PHE:HA	1:E:633:LEU:HD12	1.99	0.44
3:C:506:LYS:HD2	3:C:536:LEU:O	2.17	0.44
3:C:623:LEU:O	3:C:627:LEU:HG	2.17	0.44
3:C:711:LEU:O	3:C:714:PHE:HB3	2.18	0.44
3:C:798:LYS:HA	3:C:798:LYS:HE2	1.98	0.44
3:C:828:VAL:HG13	3:C:829:ILE:H	1.83	0.44
1:M:827:ASP:OD1	1:M:828:VAL:N	2.47	0.44
1:M:906:GLY:HA2	1:M:909:CYS:SG	2.58	0.44
1:A:1248:ASN:ND2	1:B:852:ARG:HA	2.32	0.44
1:A:1509:ARG:HG2	1:A:1510:ILE:HD13	1.98	0.44
1:A:1521:TRP:O	1:A:1522:LYS:HG2	2.17	0.44
1:A:1567:GLY:O	1:A:1570:LEU:HG	2.16	0.44
1:A:1621:LYS:HZ1	1:K:1616:SER:HB2	1.81	0.44
1:B:861:TRP:CH2	1:B:865:ARG:HD2	2.51	0.44
1:B:1115:GLN:HB3	1:B:1120:MET:O	2.17	0.44
1:B:1144:ALA:HA	1:B:1149:ASN:HD21	1.82	0.44
1:B:1212:ASP:H	1:B:1234:LEU:HD11	1.82	0.44
1:B:1221:VAL:O	1:B:1221:VAL:HG12	2.18	0.44
4:D:109:GLU:OE2	4:D:110:GLN:HG3	2.17	0.44
4:O:132:ALA:HA	4:O:135:ASP:OD2	2.16	0.44
1:J:1492:ASN:O	1:J:1496:ALA:N	2.43	0.44
1:K:1452:LEU:HB2	1:K:1453:ARG:NH1	2.32	0.44
1:K:1511:ALA:O	1:K:1514:LEU:HG	2.16	0.44
1:L:1020:GLU:O	1:L:1024:LEU:HD22	2.17	0.44
1:L:1150:TRP:HA	1:L:1153:LEU:HD12	1.99	0.44
1:H:678:ASN:HA	1:H:681:ILE:HD11	1.99	0.44
1:H:829:ILE:O	1:H:833:ILE:HG12	2.17	0.44
1:E:44:VAL:N	1:E:47:GLN:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:86:LYS:O	1:E:104:MET:HG2	2.17	0.44
1:E:130:TRP:NE1	1:E:136:SER:O	2.48	0.44
1:E:200:SER:OG	1:E:264:MET:SD	2.61	0.44
1:E:554:MET:C	1:E:557:ASN:H	2.21	0.44
1:E:650:TRP:CZ2	1:E:678:ASN:OD1	2.70	0.44
3:C:494:GLU:O	3:C:495:THR:HG23	2.18	0.44
1:M:576:SER:HB3	1:M:603:GLN:OE1	2.18	0.44
1:M:891:GLU:HA	1:M:894:LEU:HB2	1.98	0.44
1:M:961:LEU:HG	1:M:963:SER:H	1.83	0.44
1:A:1372:ASP:O	1:A:1376:ILE:HG13	2.17	0.44
1:A:1386:TRP:HZ2	1:A:1388:GLU:CD	2.21	0.44
1:B:1039:ARG:HA	1:B:1042:GLU:OE2	2.17	0.44
4:O:107:ARG:HD2	4:O:107:ARG:HA	1.85	0.44
1:J:1500:GLU:O	1:J:1508:ARG:HG2	2.17	0.44
1:J:1549:LEU:HD21	1:J:1553:LEU:HD13	1.99	0.44
1:J:1560:GLU:HG2	1:J:1560:GLU:O	2.17	0.44
1:K:1547:THR:OG1	1:K:1548:GLU:N	2.50	0.44
1:K:1563:ARG:HA	1:K:1566:PHE:HB2	2.00	0.44
1:L:1449:LYS:O	1:L:1453:ARG:HG3	2.17	0.44
1:H:809:PRO:HG2	1:H:839:GLN:H	1.82	0.44
1:H:827:ASP:OD1	1:H:827:ASP:N	2.50	0.44
1:H:840:PHE:HA	1:H:844:GLU:OE2	2.17	0.44
1:E:502:VAL:O	1:E:506:LYS:HG3	2.17	0.44
1:E:615:GLN:HA	1:E:618:GLU:HG3	2.00	0.44
3:C:479:TYR:CB	3:C:489:ILE:HB	2.47	0.44
3:C:724:ASP:HA	3:C:725:PRO:HD2	1.87	0.44
1:M:693:LEU:HB3	1:M:695:THR:HG23	2.00	0.44
1:B:1238:GLN:NE2	1:B:1242:ASP:OD1	2.51	0.44
1:J:1572:THR:O	4:I:210:LYS:NZ	2.31	0.44
1:K:1515:PHE:HB3	1:K:1520:ARG:O	2.18	0.44
1:K:1565:CYS:SG	4:N:195:VAL:HA	2.57	0.44
1:L:1317:PHE:HE2	1:L:1342:ARG:NH1	2.16	0.44
1:L:1402:GLU:HA	1:L:1405:TYR:HD2	1.83	0.44
4:I:209:CYS:SG	4:I:210:LYS:N	2.91	0.44
1:E:285:TYR:HA	1:E:291:THR:O	2.17	0.44
1:E:614:ALA:HA	1:E:633:LEU:HD13	1.99	0.44
1:E:661:GLU:HA	1:E:667:LEU:HD11	1.99	0.44
3:C:401:PHE:HZ	3:C:416:GLN:CG	2.30	0.44
3:C:427:LEU:HD13	3:C:431:GLU:CD	2.38	0.44
3:C:457:LEU:HD13	3:C:463:LEU:HD12	2.00	0.44
3:C:610:ARG:CZ	3:C:613:ILE:HD11	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:614:ALA:HA	3:C:629:HIS:CB	2.41	0.44
3:C:758:ARG:CG	3:C:759:VAL:N	2.81	0.44
1:M:745:GLU:O	1:M:749:ARG:HG2	2.17	0.44
1:M:760:LYS:HG3	1:M:764:LYS:HZ1	1.83	0.44
1:M:891:GLU:HG2	1:M:892:ARG:N	2.33	0.44
1:M:911:LYS:HZ1	1:M:912:ARG:HG3	1.82	0.44
1:A:1311:ARG:HH21	1:B:885:ASP:HA	1.83	0.44
1:B:1029:ILE:HD13	1:B:1055:ILE:HG12	2.00	0.44
4:D:102:SER:HA	4:D:105:LYS:HE2	2.00	0.44
4:D:134:LYS:O	4:D:138:GLU:HG3	2.18	0.44
1:J:1539:GLN:HG2	1:J:1540:TYR:CD1	2.53	0.44
1:J:1613:LEU:O	1:J:1617:GLU:HG3	2.16	0.44
1:L:962:GLU:N	1:L:967:ARG:HH22	2.14	0.44
1:E:349:LEU:HB3	1:E:367:LYS:NZ	2.32	0.44
1:E:467:VAL:HG12	1:E:471:ASP:O	2.18	0.44
3:C:445:LYS:HE3	3:C:470:VAL:HG23	1.99	0.44
3:C:506:LYS:HA	3:C:541:GLU:OE2	2.18	0.44
3:C:610:ARG:HA	3:C:610:ARG:HD2	1.57	0.44
3:C:790:TYR:CZ	3:C:794:ASN:ND2	2.86	0.44
3:C:791:LEU:HA	3:C:791:LEU:HD12	1.45	0.44
1:M:680:GLN:HG3	1:M:684:GLN:NE2	2.33	0.44
1:M:1000:LEU:HB2	1:M:1005:ILE:CG1	2.47	0.44
1:A:1285:GLU:HA	1:A:1288:ASN:ND2	2.33	0.44
1:A:1535:LYS:HA	1:A:1538:MET:HE1	2.00	0.44
1:B:941:LYS:O	1:B:945:ARG:HG3	2.18	0.44
1:B:992:VAL:O	1:B:996:MET:HG2	2.18	0.44
1:B:1009:GLU:OE1	1:B:1031:THR:OG1	2.35	0.44
1:B:1209:LYS:HA	1:B:1211:TYR:CE1	2.53	0.44
1:L:1125:ILE:HD13	1:L:1152:GLU:CG	2.47	0.44
1:L:1415:LYS:O	1:L:1419:LEU:N	2.45	0.44
1:H:658:LEU:O	1:H:663:SER:OG	2.31	0.44
1:H:800:ILE:O	1:H:804:VAL:HG23	2.18	0.44
4:I:219:LEU:HA	4:I:223:LYS:HE3	1.99	0.44
1:E:21:ASN:HD21	1:E:23:ALA:HB3	1.82	0.44
1:E:37:PHE:HA	1:E:54:ASP:HA	1.98	0.44
1:E:78:LYS:O	1:E:93:ILE:HG22	2.18	0.44
1:E:426:GLN:N	1:E:455:ASP:O	2.50	0.44
1:E:508:VAL:CG1	1:E:509:GLY:HA2	2.47	0.44
1:E:719:VAL:O	1:E:722:SER:N	2.50	0.44
3:C:711:LEU:HA	3:C:714:PHE:HB3	2.00	0.44
1:M:630:PHE:CD1	1:M:635:ASP:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1323:LEU:O	1:A:1327:PHE:N	2.49	0.44
1:A:1334:GLU:H	1:A:1334:GLU:CD	2.20	0.44
1:A:1438:TYR:HD1	1:A:1441:LYS:HZ3	1.66	0.44
1:A:1499:LEU:HA	1:A:1502:HIS:HB2	1.99	0.44
1:B:902:SER:HA	1:B:905:VAL:HG22	1.99	0.44
1:B:933:VAL:O	1:B:936:GLU:HB2	2.18	0.44
1:L:992:VAL:O	1:L:995:PHE:HB2	2.17	0.44
1:L:995:PHE:CZ	1:L:1008:LEU:HD13	2.53	0.44
1:L:1043:TYR:HD1	1:L:1046:ARG:HE	1.66	0.44
1:L:1128:TYR:HA	1:L:1131:ALA:HB3	2.00	0.44
1:L:1158:GLN:O	1:L:1161:ARG:HB3	2.18	0.44
1:L:1174:ILE:HG22	1:L:1186:LEU:HD11	2.00	0.44
1:L:1345:ILE:HG13	1:L:1346:PRO:CD	2.48	0.44
4:N:204:LYS:HE2	4:N:204:LYS:HB2	1.91	0.44
3:C:405:PRO:O	3:C:413:PRO:HG3	2.17	0.44
3:C:519:ARG:HG2	3:C:523:ARG:CZ	2.48	0.44
3:C:521:VAL:HA	3:C:524:ILE:CB	2.40	0.44
3:C:610:ARG:HG2	3:C:632:ASP:HB3	2.00	0.44
3:C:712:PHE:HD2	3:C:713:TYR:CE2	2.36	0.44
1:M:570:LEU:CD1	1:M:581:GLN:HB3	2.48	0.44
1:M:667:LEU:HA	1:M:667:LEU:HD23	1.88	0.44
1:M:826:GLU:HB2	1:M:857:LEU:CD2	2.48	0.44
1:A:1286:LEU:HD11	1:A:1290:TYR:HE1	1.83	0.44
1:A:1381:HIS:HB3	1:A:1384:ASP:OD2	2.18	0.44
1:A:1438:TYR:O	1:A:1442:VAL:HG13	2.18	0.44
1:A:1479:ALA:O	1:A:1482:THR:OG1	2.28	0.44
1:B:827:ASP:HA	1:B:830:LYS:NZ	2.33	0.44
1:J:1538:MET:HA	1:J:1541:ALA:HB3	2.00	0.44
1:L:1050:TYR:HH	1:L:1075:PHE:HE1	1.64	0.44
1:L:1097:GLU:HA	1:L:1100:GLU:OE1	2.18	0.44
1:L:1468:ASN:O	1:L:1472:ILE:HG13	2.18	0.44
1:E:13:LEU:HD13	1:E:18:LEU:HD11	1.99	0.43
1:E:147:SER:OG	1:E:193:PRO:HB3	2.18	0.43
1:E:159:ASP:HB3	1:E:163:LYS:H	1.83	0.43
1:E:267:SER:O	1:E:267:SER:OG	2.30	0.43
1:E:391:ILE:HG22	1:E:392:LEU:HD22	2.00	0.43
1:E:392:LEU:C	1:E:397:THR:HG21	2.38	0.43
1:E:395:PRO:O	1:E:398:ILE:N	2.51	0.43
1:E:439:VAL:CG1	1:E:444:ARG:HB2	2.48	0.43
1:E:485:PRO:O	1:E:489:ILE:HD12	2.18	0.43
1:E:641:VAL:O	1:E:645:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:654:TYR:CG	1:E:681:ILE:HG13	2.53	0.43
1:E:709:GLU:HB3	1:E:713:TYR:CZ	2.53	0.43
3:C:540:GLU:H	3:C:575:PRO:CB	2.30	0.43
3:C:610:ARG:HH22	3:C:629:HIS:N	2.16	0.43
3:C:643:THR:HA	3:C:646:LEU:HG	1.99	0.43
3:C:742:LYS:HB2	3:C:743:GLU:OE1	2.18	0.43
1:M:897:ASN:HA	1:M:899:TYR:CE2	2.53	0.43
1:M:1003:GLU:N	1:M:1006:GLU:OE2	2.23	0.43
1:M:1065:PHE:CG	1:M:1066:GLU:N	2.86	0.43
1:A:1547:THR:C	1:A:1548:GLU:HG3	2.39	0.43
1:B:1006:GLU:OE1	1:B:1006:GLU:N	2.51	0.43
1:B:1020:GLU:HG2	1:B:1021:HIS:N	2.33	0.43
1:B:1245:ARG:HA	1:B:1275:HIS:CE1	2.52	0.43
1:K:1446:PRO:HB2	4:N:139:TRP:HE1	1.83	0.43
1:L:1067:GLU:H	1:L:1067:GLU:CD	2.18	0.43
1:L:1082:VAL:HG12	1:L:1095:ALA:HB1	2.00	0.43
1:L:1250:THR:O	1:L:1254:LYS:HG2	2.17	0.43
1:H:764:LYS:HZ3	1:H:787:LEU:HA	1.82	0.43
1:E:74:ASN:ND2	1:E:132:MET:SD	2.90	0.43
1:E:263:ALA:O	1:E:276:ILE:N	2.29	0.43
1:E:429:LYS:O	1:E:433:LEU:HB2	2.17	0.43
1:E:509:GLY:HA2	1:E:510:TYR:HA	1.61	0.43
1:E:587:MET:HA	1:E:591:HIS:CD2	2.53	0.43
3:C:404:VAL:HG13	3:C:413:PRO:HB3	1.99	0.43
3:C:439:VAL:HG23	3:C:444:ARG:CG	2.48	0.43
3:C:623:LEU:HA	3:C:623:LEU:HD23	1.65	0.43
3:C:638:ARG:H	3:C:638:ARG:CD	2.21	0.43
3:C:660:VAL:C	3:C:662:ASP:H	2.22	0.43
3:C:772:LEU:HB2	3:C:775:ILE:CD1	2.48	0.43
3:C:805:GLN:O	3:C:809:PRO:HD3	2.19	0.43
3:C:837:ARG:HH21	3:C:838:GLY:N	2.11	0.43
1:M:718:ILE:HG22	1:M:722:SER:OG	2.18	0.43
1:M:829:ILE:O	1:M:832:LEU:HG	2.18	0.43
1:M:954:GLU:HG2	1:M:955:LEU:HD22	2.00	0.43
1:M:1001:PRO:O	1:M:1004:LEU:HB2	2.17	0.43
1:A:1344:ASN:CG	1:A:1346:PRO:HD2	2.38	0.43
1:A:1411:TYR:CD2	1:A:1419:LEU:HD13	2.52	0.43
1:B:1042:GLU:HA	1:B:1045:ASN:ND2	2.33	0.43
4:D:126:GLN:NE2	4:D:126:GLN:O	2.50	0.43
1:J:1568:ALA:HA	4:I:199:CYS:SG	2.59	0.43
1:J:1621:LYS:O	1:J:1625:GLN:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1456:GLN:HG3	1:K:1487:TYR:CE1	2.54	0.43
1:K:1604:LYS:NZ	4:N:213:SER:H	2.04	0.43
1:L:995:PHE:CE1	1:L:1000:LEU:HD12	2.53	0.43
1:H:757:GLU:CD	1:H:757:GLU:H	2.20	0.43
4:N:191:GLU:O	4:N:195:VAL:HG13	2.17	0.43
1:E:371:LEU:HB3	1:E:376:ASN:HB2	2.00	0.43
3:C:613:ILE:HG13	3:C:614:ALA:N	2.33	0.43
3:C:743:GLU:HG3	3:C:746:ARG:HH12	1.83	0.43
1:A:1470:LEU:O	1:A:1474:GLU:CB	2.65	0.43
1:B:858:LEU:HB3	1:B:862:LEU:HG	1.99	0.43
4:D:126:GLN:NE2	4:D:130:GLU:HG3	2.33	0.43
4:D:142:ARG:HA	4:D:145:GLU:CG	2.48	0.43
1:J:1597:PRO:HB2	4:I:214:ARG:HH21	1.83	0.43
1:J:1602:VAL:O	1:J:1605:GLU:HG2	2.17	0.43
1:L:945:ARG:HA	1:L:948:VAL:HG12	1.99	0.43
1:L:1082:VAL:O	1:L:1086:ILE:HG12	2.17	0.43
1:L:1198:ILE:HG22	1:L:1199:GLN:N	2.33	0.43
1:H:744:VAL:O	1:H:747:ILE:HG12	2.18	0.43
4:N:165:PRO:HG2	4:N:198:LEU:HA	2.00	0.43
4:N:202:ASN:HB2	4:N:204:LYS:NZ	2.33	0.43
1:E:127:VAL:HG12	1:E:129:HIS:CE1	2.53	0.43
1:E:185:SER:HG	1:E:190:VAL:H	1.65	0.43
1:E:299:SER:OG	1:E:301:GLU:O	2.23	0.43
1:E:559:ILE:O	1:E:563:THR:HG23	2.18	0.43
3:C:392:LEU:HD13	3:C:401:PHE:CD2	2.54	0.43
3:C:472:PRO:HG2	3:C:494:GLU:HB2	2.01	0.43
3:C:528:GLN:CD	3:C:558:LEU:HA	2.38	0.43
3:C:531:GLN:HA	3:C:532:PHE:CE2	2.54	0.43
3:C:537:VAL:HB	3:C:569:ALA:CB	2.49	0.43
3:C:662:ASP:C	3:C:664:LEU:N	2.70	0.43
3:C:846:VAL:O	3:C:850:GLU:HB2	2.18	0.43
1:B:833:ILE:HD13	1:B:858:LEU:HD23	1.99	0.43
1:B:1057:ASN:HA	1:B:1060:ILE:HG22	2.00	0.43
1:B:1223:ASN:O	1:B:1227:LEU:N	2.41	0.43
1:J:1595:ALA:O	1:J:1598:TYR:HB3	2.18	0.43
1:L:1231:LEU:O	1:L:1236:GLU:N	2.52	0.43
1:L:1251:ARG:HE	1:L:1254:LYS:NZ	2.16	0.43
1:L:1401:VAL:HG23	1:L:1404:TYR:CD2	2.54	0.43
1:H:777:VAL:HG13	1:H:780:ARG:HD3	1.99	0.43
1:H:840:PHE:HZ	1:H:845:LEU:HD22	1.83	0.43
4:I:158:ASP:HA	4:I:161:PHE:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:57:ASP:OD1	1:E:59:SER:OG	2.35	0.43
1:E:100:LYS:HG3	1:E:130:TRP:CZ2	2.47	0.43
1:E:306:THR:HA	1:E:317:GLY:HA2	1.99	0.43
1:E:460:SER:OG	1:E:463:LEU:HG	2.19	0.43
1:E:508:VAL:HG12	1:E:509:GLY:HA2	1.99	0.43
1:E:680:GLN:O	1:E:683:VAL:HG22	2.19	0.43
3:C:460:SER:N	3:C:463:LEU:HD22	2.33	0.43
3:C:772:LEU:N	3:C:773:PRO:CD	2.81	0.43
1:M:655:PHE:CZ	1:M:659:SER:HB3	2.53	0.43
1:M:734:ALA:HA	1:M:737:LYS:HG2	2.00	0.43
1:M:849:VAL:O	1:M:852:ARG:N	2.52	0.43
1:A:1356:HIS:HB2	1:A:1358:TRP:CH2	2.53	0.43
1:A:1414:PHE:HZ	4:D:129:ARG:HH21	1.66	0.43
1:B:913:ASP:OD1	1:B:915:HIS:ND1	2.44	0.43
1:B:964:ASN:HD21	1:B:966:TYR:HB2	1.84	0.43
1:B:1082:VAL:O	1:B:1086:ILE:HG12	2.18	0.43
1:B:1144:ALA:HA	1:B:1149:ASN:ND2	2.33	0.43
1:K:1444:GLN:HB3	1:K:1447:LEU:HB3	2.00	0.43
1:K:1510:ILE:HA	1:K:1513:TYR:HB3	2.00	0.43
1:K:1596:MET:O	1:K:1600:ILE:HG13	2.19	0.43
1:L:1208:GLU:HB2	1:L:1210:MET:HG2	1.99	0.43
1:H:755:ASP:OD1	1:H:758:ARG:NH2	2.52	0.43
4:N:213:SER:OG	4:N:216:ARG:NH1	2.52	0.43
1:E:402:GLN:CA	1:E:414:LEU:HD21	2.48	0.43
1:E:446:GLN:HA	1:E:449:GLU:OE1	2.18	0.43
3:C:540:GLU:HG3	3:C:575:PRO:O	2.19	0.43
3:C:553:PHE:HB3	3:C:558:LEU:C	2.38	0.43
1:M:635:ASP:HB3	1:M:638:ARG:HD2	2.00	0.43
1:M:855:LEU:N	1:M:856:LYS:HZ2	2.17	0.43
1:A:1378:MET:HE3	1:A:1386:TRP:HA	2.00	0.43
1:A:1527:LEU:HG	1:A:1531:ASP:OD2	2.18	0.43
4:I:202:ASN:N	4:I:202:ASN:OD1	2.51	0.43
4:N:200:ASP:OD1	4:N:224:GLN:NE2	2.51	0.43
1:E:14:GLN:HE21	1:E:16:GLN:HB2	1.84	0.43
1:E:37:PHE:CZ	1:E:73:MET:HB2	2.54	0.43
1:E:349:LEU:CG	1:E:363:LEU:HB3	2.48	0.43
1:E:448:LEU:O	1:E:452:LEU:HG	2.18	0.43
1:E:553:PHE:O	1:E:558:LEU:N	2.31	0.43
1:E:654:TYR:CD2	1:E:681:ILE:HG13	2.53	0.43
3:C:367:LYS:HE2	3:C:383:VAL:HG11	2.01	0.43
3:C:492:PHE:HE1	3:C:519:ARG:NH1	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:686:ALA:C	1:M:688:LYS:H	2.22	0.43
1:A:1314:MET:SD	1:A:1314:MET:N	2.92	0.43
1:B:897:ASN:HB3	1:B:900:TYR:CE1	2.54	0.43
1:B:1134:PRO:HD3	1:B:1163:LYS:HZ2	1.83	0.43
1:J:1484:ILE:HG21	1:J:1495:LEU:HD21	2.01	0.43
1:J:1609:LYS:HA	1:J:1612:LYS:HZ2	1.84	0.43
1:K:1566:PHE:HA	1:K:1569:CYS:SG	2.58	0.43
1:L:1025:GLN:HG3	1:L:1047:LEU:HD21	2.00	0.43
1:L:1106:ALA:O	1:L:1109:SER:OG	2.19	0.43
1:L:1449:LYS:HE3	1:L:1470:LEU:HD21	2.01	0.43
1:E:89:GLN:HG2	1:E:101:ALA:HB1	2.01	0.43
1:E:176:ARG:HD3	1:E:176:ARG:HA	1.71	0.43
1:E:270:HIS:CE1	1:E:331:GLU:HB3	2.54	0.43
1:E:570:LEU:HD22	1:E:581:GLN:HG2	2.01	0.43
3:C:457:LEU:HB3	3:C:463:LEU:CD1	2.49	0.43
3:C:667:LEU:HD12	3:C:668:ARG:N	2.33	0.43
3:C:792:TYR:CD1	3:C:792:TYR:O	2.72	0.43
1:M:786:ASP:HA	1:M:789:LEU:HB3	2.01	0.43
1:M:791:LEU:HB3	1:M:796:LEU:CG	2.49	0.43
1:M:875:THR:O	1:M:879:LEU:HG	2.19	0.43
1:M:981:GLU:CD	1:M:983:GLN:H	2.22	0.43
1:A:1310:GLU:HG3	1:A:1311:ARG:HG3	2.01	0.43
1:A:1333:ARG:HE	1:A:1337:GLU:CD	2.20	0.43
1:A:1390:GLN:O	1:A:1394:ILE:HG12	2.18	0.43
1:A:1540:TYR:HA	1:A:1543:GLU:CG	2.45	0.43
1:A:1561:GLU:HA	1:A:1563:ARG:HD3	2.01	0.43
1:B:866:ILE:HG13	1:B:867:HIS:H	1.84	0.43
1:B:879:LEU:O	1:B:882:ILE:HG12	2.18	0.43
1:B:921:TYR:HE2	1:B:933:VAL:HG11	1.84	0.43
4:D:155:ARG:NE	4:D:155:ARG:HA	2.33	0.43
1:K:1391:PHE:CZ	1:K:1403:LEU:HD21	2.53	0.43
1:K:1401:VAL:HA	1:K:1404:TYR:CE2	2.54	0.43
1:K:1528:CYS:SG	1:K:1532:SER:OG	2.75	0.43
1:K:1553:LEU:O	1:K:1556:TRP:HE3	2.02	0.43
1:K:1598:TYR:O	1:K:1601:GLN:HB3	2.18	0.43
1:L:1334:GLU:O	1:L:1338:LEU:HG	2.19	0.43
1:L:1449:LYS:HA	1:L:1452:LEU:HD12	2.01	0.43
4:I:151:LYS:HB2	4:I:151:LYS:HE3	1.86	0.43
1:E:317:GLY:N	1:E:325:LEU:O	2.27	0.43
1:E:459:CYS:O	1:E:482:ALA:HB2	2.19	0.43
3:C:494:GLU:CA	3:C:520:ASN:HB3	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:511:THR:CG2	3:C:544:ALA:H	2.31	0.43
3:C:538:GLN:H	3:C:538:GLN:HG3	1.59	0.43
3:C:745:GLU:HB3	3:C:773:PRO:HB3	2.01	0.43
3:C:819:LEU:HD12	3:C:824:CYS:HB2	2.00	0.43
3:C:820:LEU:HD23	3:C:852:ARG:CB	2.43	0.43
3:C:820:LEU:HA	3:C:820:LEU:HD12	1.41	0.43
1:M:583:ARG:O	1:M:587:MET:HG3	2.19	0.43
1:M:1069:PHE:HD1	1:M:1072:PHE:HD2	1.66	0.43
1:B:921:TYR:HB3	1:B:926:CYS:HB2	1.99	0.43
1:B:967:ARG:HA	1:B:970:LEU:HD21	2.01	0.43
1:B:995:PHE:HB3	1:B:1005:ILE:HD11	2.00	0.43
1:B:1080:SER:HA	1:B:1083:GLN:HB3	2.00	0.43
4:D:127:GLU:O	4:D:131:LYS:HE3	2.18	0.43
1:L:1251:ARG:HH21	1:L:1254:LYS:HZ3	1.67	0.43
1:H:696:GLN:O	1:H:699:ILE:HG12	2.19	0.43
1:E:83:LYS:HA	1:E:88:LEU:HA	2.00	0.43
1:E:338:ILE:H	1:E:338:ILE:HG13	1.56	0.43
1:E:590:MET:O	1:E:622:LEU:HD11	2.18	0.43
3:C:514:TRP:HH2	3:C:532:PHE:HB2	1.84	0.43
3:C:854:ARG:HA	3:C:856:LYS:HZ3	1.82	0.43
1:M:741:ILE:HA	1:M:744:VAL:HB	2.01	0.43
1:A:1394:ILE:O	1:A:1397:LYS:HE2	2.19	0.43
1:B:1085:LEU:HD21	1:B:1091:ASN:HB3	2.00	0.43
4:I:214:ARG:O	4:I:217:SER:OG	2.23	0.43
1:E:128:TYR:N	1:E:128:TYR:CD1	2.87	0.42
1:E:197:HIS:CE1	1:E:221:ARG:H	2.37	0.42
3:C:777:VAL:HA	3:C:780:ARG:CB	2.47	0.42
3:C:839:GLN:H	3:C:839:GLN:CD	2.23	0.42
1:M:715:LEU:O	1:M:718:ILE:N	2.52	0.42
1:A:1265:GLU:HB3	1:A:1268:LEU:HD13	2.00	0.42
1:A:1344:ASN:HD22	1:A:1347:LYS:HD3	1.83	0.42
1:A:1438:TYR:HA	1:A:1441:LYS:HD3	2.01	0.42
1:A:1535:LYS:HA	1:A:1538:MET:CE	2.49	0.42
1:B:1200:GLN:O	1:B:1204:ARG:HG3	2.20	0.42
1:K:1578:ARG:HA	1:K:1579:PRO:HD3	1.93	0.42
1:K:1585:THR:O	1:K:1588:ARG:HG2	2.19	0.42
1:L:1085:LEU:HG	1:L:1089:ILE:HG12	2.01	0.42
1:H:818:GLY:HA2	1:H:821:ASP:OD1	2.19	0.42
1:H:845:LEU:O	1:H:849:VAL:HG13	2.19	0.42
4:N:213:SER:HB2	4:N:216:ARG:HD3	2.01	0.42
1:E:510:TYR:HB2	1:E:513:ASP:CB	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:518:LEU:HD22	1:E:549:ILE:HD11	2.01	0.42
1:E:534:GLN:HG3	1:E:565:PHE:HD1	1.84	0.42
3:C:472:PRO:HB3	3:C:492:PHE:C	2.39	0.42
3:C:516:PHE:O	3:C:519:ARG:HB3	2.19	0.42
3:C:729:PHE:HE1	3:C:759:VAL:HA	1.83	0.42
3:C:791:LEU:HG	3:C:795:ASN:O	2.20	0.42
3:C:827:ASP:OD1	3:C:827:ASP:N	2.52	0.42
1:A:1419:LEU:HG	1:A:1423:LEU:HD21	2.01	0.42
1:B:829:ILE:O	1:B:832:LEU:N	2.52	0.42
4:D:212:VAL:HG11	4:D:214:ARG:CZ	2.49	0.42
1:L:1070:ALA:HA	1:L:1073:ARG:HE	1.84	0.42
1:L:1377:THR:O	1:L:1381:HIS:N	2.38	0.42
4:I:192:TRP:CE3	4:I:222:LEU:HD22	2.54	0.42
1:E:24:ASN:ND2	1:E:42:GLU:HG3	2.35	0.42
1:E:155:ASN:ND2	1:E:157:ARG:HD3	2.22	0.42
1:E:220:VAL:O	1:E:227:LYS:N	2.48	0.42
1:E:452:LEU:HD22	1:E:459:CYS:HA	2.01	0.42
1:E:495:THR:HA	1:E:532:PHE:CE2	2.55	0.42
1:E:554:MET:SD	1:E:591:HIS:CD2	3.13	0.42
1:E:563:THR:HG22	1:E:588:ASN:HB3	2.01	0.42
1:E:674:ASN:HB3	1:E:681:ILE:HD13	2.01	0.42
3:C:717:SER:OG	3:C:721:PHE:HE2	2.02	0.42
3:C:776:ILE:O	3:C:780:ARG:HB2	2.19	0.42
1:M:623:LEU:HA	1:M:626:ALA:HB3	2.01	0.42
1:M:855:LEU:C	1:M:857:LEU:H	2.22	0.42
1:M:902:SER:HA	1:M:905:VAL:HG22	2.01	0.42
1:A:1466:SER:O	1:A:1470:LEU:HD23	2.20	0.42
1:A:1561:GLU:HG3	1:A:1563:ARG:HH11	1.84	0.42
1:A:1611:ASP:OD2	1:A:1612:LYS:N	2.52	0.42
1:B:829:ILE:O	1:B:832:LEU:HG	2.19	0.42
1:B:848:GLU:O	1:B:852:ARG:HG2	2.20	0.42
1:B:907:LYS:O	1:B:910:GLU:HG2	2.19	0.42
1:B:955:LEU:O	1:B:959:VAL:HG23	2.19	0.42
1:B:995:PHE:O	1:B:1000:LEU:N	2.38	0.42
1:B:1242:ASP:HA	1:B:1245:ARG:HH21	1.84	0.42
4:D:154:ASN:HB2	4:D:155:ARG:NH1	2.33	0.42
1:J:1534:TYR:C	1:J:1536:ASP:H	2.21	0.42
1:J:1535:LYS:HD2	4:I:198:LEU:HG	2.01	0.42
1:J:1617:GLU:O	1:J:1621:LYS:HG2	2.19	0.42
1:K:1397:LYS:HD3	1:K:1397:LYS:HA	1.65	0.42
1:L:1287:ILE:HD11	1:L:1319:GLU:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:771:GLN:OE1	1:H:774:LEU:HG	2.19	0.42
1:E:197:HIS:ND1	1:E:260:PHE:HB2	2.34	0.42
1:E:211:GLU:HB2	1:E:240:ASN:HD21	1.84	0.42
1:E:275:LEU:HB3	1:E:283:HIS:HB2	1.99	0.42
1:E:335:ILE:HA	1:E:338:ILE:HD12	2.00	0.42
1:E:586:GLU:HG3	1:E:616:LEU:HD22	2.00	0.42
2:F:718:VAL:HA	1:M:723:GLN:HE21	1.78	0.42
3:C:610:ARG:NE	3:C:613:ILE:HD11	2.34	0.42
3:C:657:SER:HG	3:C:658:LEU:H	1.66	0.42
3:C:812:LEU:HA	3:C:812:LEU:HD13	1.84	0.42
1:M:702:PHE:CD2	1:M:707:SER:HB2	2.55	0.42
1:M:793:ARG:NH2	1:L:1221:VAL:HA	2.31	0.42
1:M:940:PHE:HB2	1:M:973:GLN:HG3	2.01	0.42
1:M:1006:GLU:O	1:M:1009:GLU:HB2	2.19	0.42
1:A:1284:GLU:HA	1:A:1287:ILE:HG12	1.99	0.42
1:A:1353:GLU:OE2	1:A:1354:GLN:NE2	2.48	0.42
1:A:1426:LEU:HD13	1:A:1430:LEU:HD21	2.00	0.42
1:A:1454:SER:OG	1:A:1455:VAL:N	2.52	0.42
1:A:1497:GLN:HA	1:A:1500:GLU:OE1	2.19	0.42
1:A:1530:LYS:HE2	1:A:1530:LYS:HB2	1.87	0.42
1:B:1209:LYS:HA	1:B:1211:TYR:CZ	2.54	0.42
1:J:1574:TYR:OH	1:J:1601:GLN:HB3	2.20	0.42
1:K:1494:SER:HA	1:K:1497:GLN:HG2	2.01	0.42
1:L:931:ILE:HA	1:L:934:CYS:SG	2.59	0.42
1:L:1323:LEU:HD12	1:L:1327:PHE:CE2	2.54	0.42
1:L:1461:LYS:O	1:L:1464:ASN:HB3	2.19	0.42
1:E:92:ASN:OD1	1:E:94:GLU:HB3	2.19	0.42
1:E:158:THR:HA	1:E:165:LEU:HA	2.00	0.42
1:E:163:LYS:O	1:E:186:VAL:N	2.42	0.42
1:E:166:LEU:HD22	1:E:216:PHE:CZ	2.54	0.42
1:E:395:PRO:HD3	1:E:430:TYR:CD1	2.55	0.42
2:F:905:ILE:HG23	2:F:912:TYR:CE1	2.54	0.42
3:C:741:ILE:C	3:C:743:GLU:N	2.71	0.42
3:C:821:ASP:N	3:C:852:ARG:HH21	2.17	0.42
1:M:803:TYR:CE1	1:M:808:ASN:HB3	2.54	0.42
1:M:884:ILE:HG21	1:M:908:TYR:CE2	2.55	0.42
1:A:1451:TYR:O	1:A:1454:SER:OG	2.13	0.42
1:B:1037:ARG:O	1:B:1040:VAL:HG13	2.19	0.42
1:B:1084:VAL:HA	1:B:1087:GLU:CG	2.49	0.42
1:B:1182:ARG:HB3	1:B:1185:GLU:OE2	2.19	0.42
4:D:120:ALA:O	4:D:123:VAL:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1536:ASP:HA	1:K:1539:GLN:HB3	2.00	0.42
1:H:735:ALA:HB2	1:H:744:VAL:HG21	2.02	0.42
1:E:42:GLU:N	1:E:49:GLN:O	2.31	0.42
1:E:91:PHE:CG	1:E:98:LYS:HA	2.54	0.42
1:E:117:ASN:O	1:E:131:SER:HA	2.20	0.42
1:E:252:PHE:HD1	1:E:259:ASP:HB3	1.84	0.42
1:E:553:PHE:CD1	1:E:558:LEU:HB2	2.54	0.42
1:E:637:LYS:O	1:E:641:VAL:HG23	2.18	0.42
3:C:524:ILE:HG12	3:C:526:PRO:HD2	2.00	0.42
3:C:592:ALA:C	3:C:594:GLN:N	2.72	0.42
3:C:626:ALA:O	3:C:630:PHE:CD2	2.72	0.42
3:C:670:MET:O	3:C:674:ASN:CA	2.68	0.42
3:C:690:HIS:CE1	3:C:694:SER:HB3	2.54	0.42
3:C:733:GLN:HA	3:C:736:CYS:SG	2.59	0.42
3:C:741:ILE:HG13	3:C:742:LYS:H	1.81	0.42
1:M:733:GLN:HE22	1:M:737:LYS:HD3	1.85	0.42
1:M:953:PRO:HA	1:M:956:TRP:CD1	2.54	0.42
1:M:1022:ARG:C	1:M:1024:LEU:H	2.23	0.42
1:A:1389:GLY:HA2	1:A:1392:LYS:HE2	2.01	0.42
1:A:1499:LEU:HB3	1:A:1511:ALA:HB2	2.02	0.42
1:A:1566:PHE:CE2	1:A:1570:LEU:HD23	2.54	0.42
1:B:986:GLU:O	1:B:989:SER:OG	2.31	0.42
1:B:1150:TRP:HD1	1:B:1176:ALA:HB1	1.84	0.42
1:B:1155:LYS:HD2	1:B:1156:TYR:N	2.35	0.42
4:D:103:ILE:HB	4:D:107:ARG:HH11	1.84	0.42
1:J:1592:MET:O	1:J:1596:MET:HG2	2.20	0.42
1:K:1596:MET:HB2	1:K:1597:PRO:HD3	2.00	0.42
1:L:1067:GLU:OE1	1:L:1067:GLU:N	2.39	0.42
1:H:728:HIS:O	1:H:732:ILE:HG13	2.19	0.42
1:H:787:LEU:O	1:H:791:LEU:HD23	2.19	0.42
4:N:201:PHE:CZ	4:N:203:PRO:HG3	2.54	0.42
1:E:349:LEU:HD23	1:E:360:ALA:HB1	2.01	0.42
1:E:515:ILE:HG23	1:E:548:GLN:NE2	2.35	0.42
1:E:530:GLN:HA	1:E:534:GLN:OE1	2.20	0.42
1:E:570:LEU:HD11	1:E:584:LEU:HD13	2.01	0.42
1:E:627:LEU:HD22	1:E:639:ALA:HB1	2.01	0.42
2:F:747:LEU:CD1	1:M:719:VAL:HB	2.38	0.42
3:C:438:PRO:O	3:C:442:GLN:HB2	2.19	0.42
3:C:457:LEU:HD22	3:C:463:LEU:CB	2.48	0.42
3:C:528:GLN:CA	3:C:558:LEU:HG	2.48	0.42
3:C:633:LEU:HA	3:C:633:LEU:HD12	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:637:LYS:HB3	3:C:638:ARG:CZ	2.50	0.42
3:C:800:ILE:HD12	3:C:803:TYR:HD2	1.85	0.42
3:C:818:GLY:O	3:C:822:VAL:HG22	2.18	0.42
1:M:646:LEU:HG	1:M:647:ASN:H	1.85	0.42
1:M:650:TRP:HE3	1:M:651:LEU:HB2	1.84	0.42
1:M:808:ASN:HD22	1:M:811:ARG:NH1	2.17	0.42
1:M:812:LEU:HB2	1:M:813:PRO:HD3	2.01	0.42
1:M:1021:HIS:HB2	1:M:1025:GLN:CB	2.50	0.42
1:A:1287:ILE:HG22	1:A:1291:GLN:OE1	2.19	0.42
1:A:1324:TYR:CD1	1:A:1328:LYS:HB2	2.55	0.42
1:A:1434:ARG:HA	1:A:1437:ASN:HD22	1.84	0.42
1:B:928:LEU:O	1:B:932:ASN:ND2	2.53	0.42
1:B:1023:ASN:OD1	1:B:1026:ASN:HB2	2.20	0.42
4:O:126:GLN:HA	4:O:129:ARG:NH1	2.34	0.42
1:K:1437:ASN:O	1:K:1440:SER:OG	2.28	0.42
1:K:1593:ASP:C	1:K:1595:ALA:H	2.22	0.42
1:L:1417:LEU:HG	1:L:1418:LEU:H	1.85	0.42
1:E:219:ALA:HA	1:E:228:LEU:HA	2.00	0.42
1:E:319:ASN:HD21	1:E:323:GLN:CD	2.22	0.42
1:E:349:LEU:HD22	1:E:367:LYS:HZ2	1.85	0.42
1:E:503:LEU:HD22	1:E:507:LYS:NZ	2.35	0.42
1:E:562:CYS:O	1:E:565:PHE:N	2.52	0.42
1:E:612:HIS:O	1:E:616:LEU:HG	2.20	0.42
1:E:623:LEU:CD1	1:E:647:ASN:HB2	2.50	0.42
2:F:746:ALA:CA	1:M:721:PHE:N	2.83	0.42
3:C:432:SER:HB2	3:C:457:LEU:HA	2.01	0.42
3:C:514:TRP:CH2	3:C:533:ALA:N	2.87	0.42
3:C:830:LYS:HZ2	3:C:858:LEU:HB2	1.85	0.42
1:M:986:GLU:O	1:M:989:SER:OG	2.30	0.42
1:A:1365:TYR:O	1:A:1369:GLU:N	2.48	0.42
1:A:1595:ALA:O	1:A:1598:TYR:HB3	2.19	0.42
1:A:1608:THR:HA	1:A:1611:ASP:OD1	2.19	0.42
1:B:886:SER:HG	1:B:888:ASN:ND2	2.14	0.42
1:B:1063:GLU:OE1	1:B:1063:GLU:N	2.50	0.42
4:D:146:GLN:OE1	4:D:149:LYS:HD3	2.20	0.42
4:O:104:ARG:HE	4:O:111:ARG:NH2	2.14	0.42
1:J:1574:TYR:OH	1:J:1602:VAL:HG23	2.20	0.42
1:J:1609:LYS:O	1:J:1612:LYS:HG2	2.20	0.42
1:K:1500:GLU:OE2	1:K:1501:LYS:NZ	2.52	0.42
1:K:1551:GLU:H	1:K:1551:GLU:CD	2.21	0.42
1:L:1111:LEU:C	1:L:1115:GLN:HE21	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1328:LYS:HB3	1:L:1331:LYS:CD	2.48	0.42
1:H:715:LEU:HB3	1:H:719:VAL:HG23	2.01	0.42
1:E:55:MET:O	1:E:58:PRO:HD3	2.20	0.42
1:E:336:PRO:O	1:E:340:ASN:ND2	2.53	0.42
1:E:366:ARG:HA	1:E:369:ASN:ND2	2.33	0.42
1:E:368:PHE:CD1	1:E:392:LEU:HG	2.55	0.42
1:E:401:PHE:HB3	1:E:417:TYR:CE2	2.55	0.42
1:E:522:MET:O	1:E:523:ARG:HG3	2.20	0.42
3:C:368:PHE:CD1	3:C:384:ALA:HB2	2.54	0.42
3:C:426:GLN:HG2	3:C:456:LYS:O	2.18	0.42
3:C:472:PRO:HG2	3:C:494:GLU:CB	2.50	0.42
3:C:723:GLN:OE1	3:C:723:GLN:N	2.43	0.42
1:M:988:VAL:O	1:M:992:VAL:HG13	2.20	0.42
1:M:1048:ASP:N	1:M:1048:ASP:OD1	2.53	0.42
1:B:826:GLU:HG2	1:B:827:ASP:N	2.35	0.42
4:D:155:ARG:O	4:D:159:LYS:HD3	2.20	0.42
4:O:114:LEU:HA	4:O:117:LEU:HD12	2.02	0.42
1:L:1156:TYR:HA	1:L:1159:MET:HE2	2.02	0.42
1:L:1251:ARG:H	1:L:1251:ARG:HG2	1.69	0.42
1:L:1349:LEU:HD23	1:L:1350:ARG:HH11	1.85	0.42
1:L:1451:TYR:CE1	1:L:1455:VAL:HG11	2.55	0.42
1:E:72:ILE:CG1	1:E:81:ALA:HB3	2.47	0.42
1:E:173:GLN:N	1:E:176:ARG:O	2.53	0.42
1:E:227:LYS:HB3	1:E:229:HIS:CE1	2.55	0.42
1:E:265:GLN:HG3	1:E:308:PRO:HA	2.02	0.42
1:E:281:TYR:CD2	1:E:297:ARG:HG3	2.54	0.42
3:C:477:SER:HB2	3:C:481:ARG:HH21	1.84	0.42
3:C:498:VAL:HG12	3:C:502:VAL:CG1	2.50	0.42
3:C:665:GLU:HA	3:C:668:ARG:NH2	2.35	0.42
3:C:740:GLN:O	3:C:743:GLU:HB2	2.20	0.42
3:C:762:PHE:HA	3:C:765:GLU:CD	2.40	0.42
1:M:650:TRP:CE2	1:M:654:TYR:HE2	2.38	0.42
1:M:768:LEU:HG	1:M:770:ASP:OD1	2.20	0.42
1:A:1499:LEU:HA	1:A:1499:LEU:HD23	1.83	0.42
1:A:1584:GLU:OE2	1:A:1588:ARG:NE	2.53	0.42
1:A:1592:MET:O	1:A:1596:MET:N	2.53	0.42
1:A:1604:LYS:HE3	4:D:210:LYS:NZ	2.34	0.42
4:D:222:LEU:HA	4:D:225:THR:HB	2.02	0.42
1:K:1434:ARG:HA	1:K:1437:ASN:ND2	2.34	0.42
1:K:1475:GLU:HG3	1:K:1502:HIS:HE1	1.85	0.42
1:L:1002:ASN:O	1:L:1003:GLU:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1404:TYR:CD1	1:L:1404:TYR:N	2.87	0.42
1:L:1433:THR:O	1:L:1436:VAL:HG22	2.19	0.42
1:L:1435:ALA:HB1	1:L:1439:PHE:CZ	2.55	0.42
1:H:657:SER:OG	1:H:658:LEU:HG	2.20	0.42
1:E:273:VAL:O	1:E:284:LEU:HD12	2.20	0.41
1:E:485:PRO:O	1:E:489:ILE:HB	2.19	0.41
3:C:589:LEU:HD21	3:C:616:LEU:HD22	2.01	0.41
3:C:792:TYR:O	3:C:795:ASN:HA	2.20	0.41
1:M:846:VAL:HA	1:M:849:VAL:HB	2.01	0.41
1:M:986:GLU:OE1	1:M:986:GLU:N	2.53	0.41
1:M:1039:ARG:HA	1:M:1042:GLU:OE1	2.19	0.41
1:A:1404:TYR:CD2	1:A:1404:TYR:N	2.88	0.41
1:B:956:TRP:O	1:B:960:LEU:HG	2.20	0.41
1:B:988:VAL:O	1:B:991:THR:HG22	2.19	0.41
4:O:104:ARG:NE	4:O:111:ARG:HH22	2.12	0.41
1:K:1449:LYS:HG3	1:K:1453:ARG:NH1	2.35	0.41
1:K:1471:PHE:CG	1:K:1480:LEU:HB2	2.55	0.41
1:L:1331:LYS:HA	1:L:1334:GLU:OE2	2.19	0.41
1:L:1334:GLU:HG2	1:L:1335:HIS:N	2.35	0.41
1:H:640:VAL:HB	1:H:670:MET:HG2	2.02	0.41
4:I:159:LYS:HA	4:I:162:TYR:CD2	2.54	0.41
1:E:33:GLU:HB2	1:E:37:PHE:CZ	2.54	0.41
1:E:432:SER:HB3	1:E:458:GLU:H	1.85	0.41
1:E:533:ALA:O	1:E:537:VAL:HG23	2.19	0.41
1:E:627:LEU:HA	1:E:630:PHE:HD2	1.85	0.41
3:C:681:ILE:O	3:C:685:VAL:HG22	2.20	0.41
3:C:693:LEU:HD23	3:C:693:LEU:N	2.36	0.41
3:C:808:ASN:CG	3:C:811:ARG:HE	2.23	0.41
3:C:845:LEU:HD11	3:C:858:LEU:CD2	2.50	0.41
3:C:854:ARG:HA	3:C:856:LYS:NZ	2.34	0.41
3:C:855:LEU:HD23	3:C:855:LEU:O	2.19	0.41
1:M:640:VAL:HG11	1:M:669:ALA:HB3	2.02	0.41
1:M:898:PRO:HD2	1:M:899:TYR:CE2	2.55	0.41
1:M:967:ARG:HA	1:M:970:LEU:CD2	2.50	0.41
1:A:1347:LYS:HG3	1:A:1350:ARG:NH2	2.35	0.41
1:A:1384:ASP:OD1	1:A:1385:ALA:N	2.53	0.41
1:A:1434:ARG:HA	1:A:1437:ASN:ND2	2.35	0.41
1:B:941:LYS:H	1:B:973:GLN:NE2	2.18	0.41
1:B:952:ASP:HB3	1:B:955:LEU:HD13	2.02	0.41
1:B:1002:ASN:O	1:B:1003:GLU:HB2	2.19	0.41
1:B:1085:LEU:HD23	1:B:1086:ILE:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:139:TRP:O	4:O:143:GLN:HG2	2.20	0.41
1:K:1386:TRP:CZ3	1:K:1415:LYS:HD3	2.54	0.41
1:K:1426:LEU:O	1:K:1430:LEU:HD12	2.20	0.41
1:L:1281:ASP:OD1	1:L:1281:ASP:N	2.49	0.41
1:L:1319:GLU:HG2	1:L:1323:LEU:HD23	2.02	0.41
1:H:743:GLU:HA	1:H:746:ARG:NE	2.35	0.41
1:H:764:LYS:HA	1:H:767:LYS:NZ	2.35	0.41
1:H:777:VAL:O	1:H:780:ARG:HB3	2.20	0.41
1:H:808:ASN:ND2	1:H:811:ARG:HG3	2.35	0.41
4:N:138:GLU:O	4:N:141:GLN:NE2	2.53	0.41
1:E:32:MET:HB3	1:E:305:VAL:CG1	2.48	0.41
1:E:37:PHE:CE2	1:E:73:MET:HB2	2.54	0.41
1:E:41:ARG:HG3	1:E:50:VAL:HG22	2.02	0.41
1:E:152:GLN:HB3	1:E:170:ILE:CG1	2.50	0.41
1:E:166:LEU:HD11	1:E:181:MET:CB	2.50	0.41
1:E:201:PHE:CD1	1:E:233:VAL:HG21	2.55	0.41
1:E:273:VAL:HG23	1:E:287:LEU:HA	2.01	0.41
1:E:288:GLU:OE1	1:E:354:ARG:HD3	2.19	0.41
1:E:654:TYR:OH	1:E:680:GLN:HB2	2.19	0.41
1:E:698:LEU:HA	1:E:698:LEU:HD23	1.60	0.41
3:C:670:MET:HE1	3:C:675:ILE:O	2.20	0.41
3:C:726:ASP:O	3:C:730:LYS:HG2	2.20	0.41
3:C:864:ALA:HA	3:C:867:HIS:HE1	1.80	0.41
1:M:644:HIS:NE2	1:M:673:ALA:O	2.47	0.41
1:M:968:ARG:HE	1:M:968:ARG:HB3	1.55	0.41
1:M:995:PHE:HB3	1:M:1005:ILE:CD1	2.50	0.41
1:A:1357:LEU:HB3	1:A:1360:GLU:CD	2.40	0.41
1:B:861:TRP:CZ3	1:B:862:LEU:HD23	2.55	0.41
1:B:918:CYS:SG	1:B:919:VAL:N	2.93	0.41
1:B:919:VAL:O	1:B:923:ARG:HG2	2.20	0.41
1:B:1126:ASP:HB2	1:B:1130:LYS:NZ	2.36	0.41
1:B:1152:GLU:O	1:B:1155:LYS:HG3	2.20	0.41
4:D:113:ARG:O	4:D:117:LEU:HG	2.20	0.41
4:D:201:PHE:O	4:D:202:ASN:ND2	2.53	0.41
1:H:659:SER:HA	1:H:663:SER:H	1.86	0.41
1:H:849:VAL:HB	1:H:855:LEU:HA	2.01	0.41
1:E:91:PHE:HE2	1:E:98:LYS:HZ2	1.67	0.41
1:E:286:ASP:HB3	1:E:291:THR:H	1.86	0.41
1:E:301:GLU:HG3	1:E:321:LYS:HG2	2.02	0.41
1:E:350:ARG:O	1:E:354:ARG:HD2	2.20	0.41
1:E:510:TYR:HB2	1:E:513:ASP:OD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:748:GLN:N	1:M:720:ASN:HB3	2.35	0.41
3:C:748:CYS:O	3:C:780:ARG:NH1	2.54	0.41
1:M:699:ILE:HD13	1:M:727:VAL:HG12	2.02	0.41
1:M:808:ASN:HD22	1:M:811:ARG:CZ	2.34	0.41
1:M:911:LYS:NZ	1:M:912:ARG:HG3	2.35	0.41
1:A:1331:LYS:HE3	1:A:1335:HIS:HB2	2.03	0.41
1:A:1332:MET:HG2	1:A:1336:LEU:HD11	2.03	0.41
1:A:1373:ASN:HD22	1:A:1376:ILE:HD12	1.85	0.41
1:B:829:ILE:HG23	1:B:830:LYS:N	2.32	0.41
4:O:151:LYS:HB2	4:O:151:LYS:HE3	1.82	0.41
1:K:1547:THR:C	1:K:1548:GLU:HG3	2.40	0.41
1:L:967:ARG:HA	1:L:967:ARG:HD3	1.78	0.41
1:L:1008:LEU:O	1:L:1012:VAL:HG22	2.19	0.41
1:L:1411:TYR:HB2	1:L:1419:LEU:HG	2.02	0.41
1:H:640:VAL:O	1:H:643:THR:OG1	2.23	0.41
1:H:744:VAL:O	1:H:747:ILE:N	2.53	0.41
1:H:830:LYS:O	1:H:834:LEU:HG	2.19	0.41
4:N:128:TRP:HD1	4:N:131:LYS:HZ1	1.68	0.41
1:E:26:GLY:O	1:E:29:THR:N	2.54	0.41
1:E:181:MET:HB2	1:E:194:ILE:HG12	2.02	0.41
1:E:205:LYS:HA	1:E:212:GLU:HA	2.03	0.41
1:E:369:ASN:OD1	1:E:400:ARG:NH2	2.51	0.41
3:C:686:ALA:C	3:C:688:LYS:H	2.24	0.41
3:C:738:THR:O	3:C:738:THR:OG1	2.38	0.41
3:C:819:LEU:HG	3:C:820:LEU:N	2.34	0.41
1:M:561:GLN:OE1	1:M:561:GLN:N	2.54	0.41
1:M:1071:ILE:HG12	1:M:1074:LYS:HE3	2.02	0.41
1:B:904:VAL:HA	1:B:907:LYS:CG	2.50	0.41
1:B:1126:ASP:HA	1:B:1129:ILE:HB	2.02	0.41
1:K:1398:VAL:HB	1:K:1404:TYR:OH	2.21	0.41
1:L:929:GLU:O	1:L:933:VAL:HG13	2.20	0.41
1:L:1089:ILE:HG13	1:L:1091:ASN:H	1.85	0.41
1:L:1183:LEU:HA	1:L:1186:LEU:HB3	2.02	0.41
1:L:1242:ASP:HA	1:L:1245:ARG:NE	2.35	0.41
1:L:1345:ILE:HG13	1:L:1346:PRO:HD3	2.02	0.41
1:H:764:LYS:NZ	1:H:787:LEU:HA	2.36	0.41
1:E:259:ASP:HB2	1:E:279:TYR:CE2	2.56	0.41
1:E:654:TYR:CD1	1:E:681:ILE:HG13	2.56	0.41
1:E:701:LEU:HG	1:E:701:LEU:H	1.62	0.41
2:F:746:ALA:CA	1:M:721:PHE:H	2.33	0.41
3:C:489:ILE:HD13	3:C:489:ILE:HG21	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:597:ASP:H	3:C:625:ARG:HE	1.68	0.41
3:C:678:ASN:O	3:C:682:CYS:HB2	2.21	0.41
1:M:778:CYS:SG	1:M:787:LEU:HD13	2.60	0.41
1:M:882:ILE:HG13	1:M:883:TYR:CD1	2.55	0.41
1:A:1252:THR:HA	1:A:1255:GLU:OE1	2.20	0.41
1:B:989:SER:HB2	1:B:993:LYS:HE3	2.02	0.41
1:B:1227:LEU:O	1:B:1231:LEU:HD13	2.21	0.41
4:O:118:ASP:O	4:O:122:LYS:HG3	2.20	0.41
1:K:1382:PRO:HB3	1:K:1410:PHE:CZ	2.53	0.41
1:K:1595:ALA:N	1:K:1597:PRO:HD2	2.35	0.41
1:L:1080:SER:HA	1:L:1083:GLN:NE2	2.36	0.41
1:L:1149:ASN:O	1:L:1153:LEU:HG	2.20	0.41
1:L:1226:ARG:O	1:L:1230:THR:HG23	2.21	0.41
1:L:1264:LYS:HA	1:L:1264:LYS:HD3	1.75	0.41
1:L:1292:ASP:OD1	1:L:1292:ASP:N	2.53	0.41
1:L:1397:LYS:HE2	1:L:1397:LYS:HB2	1.86	0.41
1:L:1440:SER:HB3	1:L:1445:LEU:HD11	2.01	0.41
1:H:828:VAL:HA	1:H:831:ASN:HD22	1.86	0.41
1:E:206:MET:SD	1:E:206:MET:N	2.94	0.41
1:E:438:PRO:HA	1:E:441:GLN:OE1	2.21	0.41
1:E:502:VAL:HB	1:E:536:LEU:CD2	2.50	0.41
1:E:554:MET:SD	1:E:591:HIS:CG	3.13	0.41
1:E:630:PHE:CB	1:E:639:ALA:HB2	2.51	0.41
2:F:868:LEU:HB3	2:F:873:VAL:HB	2.03	0.41
3:C:572:ASN:CB	3:C:575:PRO:HG2	2.51	0.41
3:C:614:ALA:CB	3:C:633:LEU:HD22	2.51	0.41
1:M:680:GLN:OE1	1:M:683:VAL:HB	2.20	0.41
1:M:775:ILE:HG13	1:M:776:ILE:N	2.36	0.41
1:M:1064:LEU:HD13	1:M:1067:GLU:HG2	2.01	0.41
1:A:1370:GLU:HG3	1:A:1372:ASP:OD1	2.20	0.41
1:A:1372:ASP:OD1	1:A:1373:ASN:N	2.48	0.41
1:A:1426:LEU:H	1:A:1426:LEU:HG	1.78	0.41
1:A:1620:ARG:HH12	1:J:1621:LYS:HA	1.86	0.41
1:B:844:GLU:OE1	1:B:845:LEU:N	2.54	0.41
1:B:858:LEU:HD13	1:B:861:TRP:CZ3	2.55	0.41
1:B:909:CYS:SG	1:B:917:ALA:HB2	2.61	0.41
1:B:941:LYS:HB3	1:B:977:THR:HG21	2.03	0.41
1:B:1254:LYS:HA	1:B:1257:CYS:HB3	2.03	0.41
1:J:1527:LEU:HA	1:J:1530:LYS:HG3	2.02	0.41
1:J:1610:VAL:HG13	1:J:1611:ASP:OD1	2.21	0.41
1:K:1429:ARG:H	1:K:1429:ARG:HG2	1.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1439:PHE:CG	1:K:1448:VAL:HG11	2.55	0.41
1:K:1471:PHE:HB3	1:K:1480:LEU:HD22	2.03	0.41
1:K:1512:ALA:O	1:K:1515:PHE:HB2	2.21	0.41
1:L:1401:VAL:HA	1:L:1404:TYR:CD2	2.56	0.41
1:H:676:ARG:HD3	1:H:679:LEU:HD13	2.02	0.41
1:E:230:ILE:HG21	1:E:287:LEU:O	2.21	0.41
1:E:349:LEU:CD2	1:E:363:LEU:HB3	2.49	0.41
1:E:453:LYS:HG2	1:E:481:ARG:HH12	1.86	0.41
1:E:472:PRO:HG2	1:E:495:THR:OG1	2.20	0.41
1:E:552:VAL:HA	1:E:555:GLU:CD	2.40	0.41
1:E:589:LEU:HD22	1:E:629:HIS:CE1	2.56	0.41
1:E:648:PRO:HB3	1:E:670:MET:HE1	2.02	0.41
1:E:664:LEU:HD13	1:E:694:SER:HB2	2.03	0.41
3:C:402:GLN:HB3	3:C:442:GLN:HE22	1.86	0.41
3:C:472:PRO:HB3	3:C:492:PHE:O	2.20	0.41
3:C:712:PHE:HD2	3:C:713:TYR:CZ	2.38	0.41
3:C:777:VAL:O	3:C:781:PHE:HD2	2.04	0.41
3:C:821:ASP:OD1	3:C:821:ASP:C	2.59	0.41
1:M:796:LEU:HD23	1:M:796:LEU:HA	1.92	0.41
1:M:811:ARG:O	1:M:815:VAL:HG13	2.21	0.41
1:M:1037:ARG:O	1:M:1040:VAL:HG22	2.21	0.41
1:A:1283:LEU:O	1:A:1286:LEU:HB3	2.20	0.41
1:A:1430:LEU:HB2	1:A:1432:HIS:CD2	2.55	0.41
1:B:929:GLU:O	1:B:933:VAL:HG22	2.20	0.41
1:B:1000:LEU:HD13	1:B:1000:LEU:HA	1.92	0.41
1:B:1114:ALA:HA	1:B:1117:GLN:OE1	2.20	0.41
1:B:1218:TYR:HB3	1:B:1223:ASN:HB2	2.01	0.41
1:J:1493:ILE:H	1:J:1493:ILE:HD12	1.85	0.41
1:J:1504:LEU:HD12	1:J:1507:PHE:CD1	2.56	0.41
1:L:995:PHE:CD1	1:L:1000:LEU:HD12	2.56	0.41
1:L:1115:GLN:HB2	1:L:1124:ALA:HB2	2.03	0.41
1:L:1152:GLU:HA	1:L:1155:LYS:NZ	2.36	0.41
1:H:820:LEU:HD13	1:H:852:ARG:HG2	2.03	0.41
1:H:862:LEU:O	1:H:866:ILE:HG12	2.21	0.41
4:I:155:ARG:HD3	4:I:155:ARG:HA	1.80	0.41
1:E:9:PHE:C	1:E:10:GLN:HG3	2.41	0.41
1:E:21:ASN:O	1:E:25:ILE:N	2.54	0.41
1:E:123:THR:H	1:E:123:THR:HG1	1.64	0.41
1:E:301:GLU:HB3	1:E:320:ARG:HB3	2.02	0.41
1:E:318:VAL:HA	1:E:323:GLN:O	2.20	0.41
1:E:566:LEU:HD13	1:E:584:LEU:HD22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:604:MET:HG3	1:E:613:ILE:HD13	2.02	0.41
1:E:610:ARG:HD3	1:E:633:LEU:O	2.20	0.41
1:E:617:CYS:HB3	1:E:626:ALA:HB1	2.03	0.41
1:E:668:ARG:NE	1:E:694:SER:OG	2.54	0.41
2:F:753:PHE:HA	2:F:808:LYS:O	2.21	0.41
2:F:854:ILE:O	2:F:854:ILE:CG1	2.66	0.41
3:C:574:ARG:CD	3:C:575:PRO:HD3	2.51	0.41
3:C:668:ARG:HB2	3:C:668:ARG:CZ	2.51	0.41
3:C:675:ILE:HG23	3:C:676:ARG:NH2	2.36	0.41
3:C:693:LEU:HG	3:C:695:THR:HG23	2.03	0.41
3:C:757:GLU:HA	3:C:760:LYS:NZ	2.36	0.41
3:C:784:VAL:HA	3:C:787:LEU:CB	2.45	0.41
3:C:834:LEU:HA	3:C:834:LEU:HD23	1.82	0.41
3:C:859:LEU:HA	3:C:862:LEU:HB3	2.03	0.41
1:M:595:VAL:O	1:M:599:ILE:HG13	2.21	0.41
1:M:871:GLU:HA	1:M:876:HIS:NE2	2.36	0.41
1:M:925:GLN:HB3	1:M:950:ARG:NH2	2.29	0.41
1:M:945:ARG:O	1:M:948:VAL:HG22	2.20	0.41
1:A:1391:PHE:HE2	1:A:1422:LEU:HD13	1.86	0.41
1:A:1520:ARG:HG2	1:A:1523:GLN:OE1	2.21	0.41
1:A:1532:SER:OG	1:A:1532:SER:O	2.32	0.41
1:A:1575:ASP:N	1:A:1575:ASP:OD1	2.53	0.41
1:A:1620:ARG:HH22	1:J:1621:LYS:HB3	1.86	0.41
1:A:1621:LYS:O	1:A:1624:GLU:HG3	2.21	0.41
1:B:943:LEU:O	1:B:947:LEU:HG	2.21	0.41
1:B:967:ARG:NH2	1:B:1000:LEU:HD11	2.36	0.41
1:B:995:PHE:HB3	1:B:1000:LEU:HB2	2.03	0.41
1:B:1166:GLU:O	1:B:1170:GLU:HG3	2.21	0.41
4:D:221:SER:O	4:D:222:LEU:HD22	2.21	0.41
4:O:139:TRP:CE2	4:O:143:GLN:HG3	2.56	0.41
1:J:1465:GLU:HA	1:J:1468:ASN:ND2	2.36	0.41
1:J:1475:GLU:OE1	4:I:147:VAL:HG13	2.20	0.41
1:K:1475:GLU:HG3	1:K:1502:HIS:CE1	2.56	0.41
1:K:1504:LEU:HD11	4:N:154:ASN:OD1	2.21	0.41
1:L:1056:ALA:O	1:L:1060:ILE:HG12	2.21	0.41
1:L:1073:ARG:HD2	1:L:1074:LYS:N	2.36	0.41
1:L:1199:GLN:HE22	1:L:1221:VAL:HG21	1.86	0.41
1:L:1461:LYS:N	1:L:1461:LYS:HD2	2.36	0.41
1:H:702:PHE:HE2	1:H:711:LEU:N	2.18	0.41
1:H:747:ILE:HA	1:H:750:GLU:HB2	2.02	0.41
1:H:778:CYS:SG	1:H:783:PHE:HB2	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:8:ARG:O	1:E:327:VAL:HA	2.21	0.41
1:E:228:LEU:HD12	1:E:229:HIS:H	1.85	0.41
1:E:369:ASN:OD1	1:E:400:ARG:NH1	2.53	0.41
1:E:598:ALA:C	1:E:602:ASN:HD22	2.24	0.41
3:C:449:GLU:HA	3:C:452:LEU:HG	2.02	0.41
3:C:467:VAL:O	3:C:470:VAL:N	2.48	0.41
3:C:476:LEU:HB3	3:C:500:LYS:CE	2.51	0.41
3:C:514:TRP:HH2	3:C:533:ALA:N	2.19	0.41
3:C:712:PHE:HZ	3:C:735:ALA:HB2	1.86	0.41
3:C:755:ASP:O	3:C:759:VAL:HG23	2.21	0.41
3:C:760:LYS:HE2	3:C:783:PHE:CD1	2.55	0.41
3:C:828:VAL:HG13	3:C:829:ILE:N	2.36	0.41
1:M:948:VAL:O	1:M:949:ARG:NH1	2.47	0.41
1:M:961:LEU:HD11	1:M:964:ASN:HB2	2.03	0.41
1:A:1376:ILE:CA	1:A:1406:ARG:HH22	2.32	0.41
1:A:1401:VAL:O	1:A:1404:TYR:N	2.53	0.41
1:B:1022:ARG:N	1:B:1024:LEU:HD13	2.36	0.41
1:B:1126:ASP:N	1:B:1126:ASP:OD1	2.54	0.41
1:K:1501:LYS:HA	1:K:1508:ARG:HH21	1.86	0.41
1:K:1592:MET:O	1:K:1596:MET:HG2	2.21	0.41
1:L:1114:ALA:O	1:L:1118:LYS:HE2	2.21	0.41
1:L:1434:ARG:HD2	1:L:1434:ARG:HA	1.71	0.41
1:H:752:ASN:HD21	1:H:780:ARG:HH21	1.69	0.41
1:E:14:GLN:NE2	1:E:16:GLN:HB2	2.36	0.40
1:E:111:TRP:HB2	1:E:121:LEU:HG	2.02	0.40
1:E:124:ASP:O	1:E:144:ARG:NH2	2.54	0.40
1:E:185:SER:N	1:E:190:VAL:O	2.36	0.40
1:E:362:GLU:HB3	1:E:366:ARG:HH21	1.86	0.40
1:E:511:THR:O	1:E:514:TRP:HB2	2.21	0.40
3:C:511:THR:HG21	3:C:544:ALA:N	2.36	0.40
3:C:638:ARG:HA	3:C:641:VAL:HG22	2.02	0.40
3:C:828:VAL:HG13	3:C:829:ILE:HG12	2.03	0.40
3:C:859:LEU:HG	3:C:860:PRO:HD3	2.03	0.40
1:M:714:PHE:O	1:M:718:ILE:HG13	2.21	0.40
1:A:1412:LEU:HD23	1:A:1413:GLU:N	2.36	0.40
1:A:1470:LEU:O	1:A:1474:GLU:HB2	2.21	0.40
1:B:952:ASP:HB2	1:B:955:LEU:HB2	2.02	0.40
1:B:1227:LEU:HD12	1:B:1228:ALA:N	2.36	0.40
4:D:158:ASP:HB3	4:D:162:TYR:CZ	2.56	0.40
1:J:1475:GLU:HG2	1:J:1504:LEU:HD11	2.03	0.40
1:K:1558:LEU:HD21	1:K:1566:PHE:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:988:VAL:O	1:L:991:THR:OG1	2.23	0.40
1:H:649:GLU:OE1	1:H:649:GLU:N	2.54	0.40
1:E:86:LYS:NZ	1:E:106:ASP:HA	2.37	0.40
1:E:86:LYS:O	1:E:103:THR:HA	2.21	0.40
1:E:603:GLN:HB2	1:E:608:TYR:CE2	2.56	0.40
3:C:390:GLY:O	3:C:394:THR:HG23	2.21	0.40
3:C:514:TRP:CH2	3:C:517:LEU:HD22	2.56	0.40
3:C:726:ASP:HA	3:C:758:ARG:NH1	2.34	0.40
3:C:760:LYS:HA	3:C:763:LEU:CG	2.51	0.40
3:C:791:LEU:HD12	3:C:794:ASN:ND2	2.35	0.40
1:M:743:GLU:OE1	1:M:743:GLU:N	2.47	0.40
1:M:826:GLU:O	1:M:830:LYS:HG3	2.21	0.40
1:M:874:ALA:HA	1:M:877:ASN:HD21	1.85	0.40
1:A:1276:ILE:H	1:A:1276:ILE:HD12	1.86	0.40
1:A:1575:ASP:CG	1:A:1576:LEU:HG	2.42	0.40
1:A:1613:LEU:O	1:A:1617:GLU:HG3	2.20	0.40
1:B:1042:GLU:HA	1:B:1045:ASN:HD22	1.85	0.40
1:B:1085:LEU:HD13	1:B:1095:ALA:HB2	2.03	0.40
1:B:1177:LEU:CB	1:B:1186:LEU:HD22	2.51	0.40
1:B:1205:CYS:SG	1:B:1213:ALA:HB3	2.61	0.40
1:B:1251:ARG:O	1:B:1254:LYS:HG2	2.21	0.40
1:J:1563:ARG:HA	1:J:1566:PHE:HB2	2.02	0.40
1:L:967:ARG:O	1:L:971:ILE:HG12	2.21	0.40
1:L:1160:ALA:HA	1:L:1163:LYS:HD3	2.03	0.40
1:L:1166:GLU:CD	1:L:1167:SER:H	2.24	0.40
1:L:1183:LEU:HD12	1:L:1183:LEU:H	1.85	0.40
1:L:1270:GLN:CD	1:L:1305:ALA:HB3	2.41	0.40
1:L:1363:PHE:O	1:L:1366:ASP:HB3	2.21	0.40
1:E:257:GLN:HG2	1:E:258:ASN:ND2	2.36	0.40
1:E:259:ASP:CG	1:E:279:TYR:H	2.23	0.40
1:E:365:ALA:O	1:E:369:ASN:ND2	2.54	0.40
1:E:540:GLU:O	1:E:574:ARG:HD2	2.21	0.40
1:E:585:LEU:HA	1:E:588:ASN:HB2	2.03	0.40
1:E:598:ALA:O	1:E:602:ASN:N	2.54	0.40
1:E:682:CYS:O	1:E:686:ALA:HB3	2.20	0.40
3:C:498:VAL:HG21	3:C:535:MET:HE1	2.04	0.40
3:C:529:GLY:H	3:C:561:GLN:CG	2.32	0.40
3:C:726:ASP:CA	3:C:758:ARG:HH12	2.33	0.40
3:C:758:ARG:HA	3:C:761:ASN:HB3	2.02	0.40
3:C:853:ASN:HB2	3:C:854:ARG:CZ	2.52	0.40
1:M:580:LEU:O	1:M:584:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:944:SER:O	1:M:948:VAL:HG13	2.21	0.40
1:M:1008:LEU:O	1:M:1012:VAL:HG13	2.22	0.40
1:A:1290:TYR:CA	1:A:1295:TYR:HB2	2.51	0.40
1:A:1345:ILE:HG13	1:A:1368:TYR:OH	2.21	0.40
1:A:1350:ARG:HA	1:A:1353:GLU:HG3	2.02	0.40
1:A:1404:TYR:O	1:A:1408:ILE:HG12	2.21	0.40
1:A:1535:LYS:HG2	1:A:1538:MET:HB2	2.04	0.40
1:B:979:LEU:HD12	1:B:979:LEU:H	1.87	0.40
1:B:1113:LYS:HA	1:B:1113:LYS:HD2	1.75	0.40
4:D:139:TRP:HA	4:D:142:ARG:NH1	2.36	0.40
1:J:1515:PHE:CD2	1:J:1523:GLN:HG3	2.57	0.40
1:K:1574:TYR:O	1:K:1577:LEU:HG	2.21	0.40
1:K:1582:VAL:HG11	1:K:1598:TYR:CD2	2.56	0.40
1:K:1604:LYS:HA	1:K:1607:LEU:HB3	2.03	0.40
1:L:1025:GLN:HG2	1:L:1050:TYR:HB3	2.04	0.40
1:L:1199:GLN:HE21	1:L:1223:ASN:ND2	2.08	0.40
1:L:1405:TYR:O	1:L:1408:ILE:HB	2.22	0.40
1:H:674:ASN:HA	1:H:678:ASN:OD1	2.21	0.40
1:H:708:PHE:CE2	1:H:709:GLU:HG2	2.56	0.40
4:I:218:VAL:O	4:I:223:LYS:HB3	2.22	0.40
1:E:83:LYS:HB2	1:E:111:TRP:CZ2	2.56	0.40
1:E:108:VAL:HG22	1:E:128:TYR:OH	2.21	0.40
1:E:578:GLY:HA2	1:E:581:GLN:OE1	2.22	0.40
3:C:471:ASP:OD2	3:C:474:LEU:N	2.32	0.40
3:C:479:TYR:HB2	3:C:489:ILE:CG1	2.52	0.40
3:C:533:ALA:HB3	3:C:565:PHE:CD2	2.56	0.40
3:C:755:ASP:HB3	3:C:758:ARG:HD3	2.03	0.40
3:C:772:LEU:N	3:C:772:LEU:HD23	2.36	0.40
1:M:573:ASN:OD1	1:M:603:GLN:NE2	2.55	0.40
1:M:671:LEU:HD12	1:M:674:ASN:HD22	1.86	0.40
1:M:692:GLN:HG2	1:M:693:LEU:N	2.37	0.40
1:M:939:LEU:HD21	1:M:941:LYS:HB3	2.04	0.40
1:A:1250:THR:H	1:A:1250:THR:HG23	1.68	0.40
1:A:1293:ARG:HB3	1:A:1295:TYR:CZ	2.57	0.40
1:A:1294:GLY:HA2	1:A:1296:PHE:CE2	2.56	0.40
1:A:1432:HIS:O	1:A:1436:VAL:HG13	2.22	0.40
1:A:1554:LEU:HD23	1:A:1566:PHE:HE1	1.85	0.40
1:B:1248:ASN:HA	1:B:1275:HIS:CE1	2.56	0.40
4:D:111:ARG:O	4:D:115:GLN:HG2	2.22	0.40
1:J:1580:ASP:OD1	1:J:1580:ASP:N	2.55	0.40
1:K:1378:MET:HE2	1:K:1378:MET:HB2	1.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1262:ASP:OD2	1:L:1289:TYR:OH	2.40	0.40
1:H:709:GLU:HA	1:H:712:PHE:HB3	2.03	0.40
4:N:148:GLU:HA	4:N:151:LYS:HE2	2.04	0.40
1:E:153:ILE:HA	1:E:168:THR:O	2.21	0.40
1:E:272:VAL:HA	1:E:287:LEU:H	1.87	0.40
1:E:436:CYS:SG	1:E:463:LEU:HD22	2.62	0.40
3:C:439:VAL:HG23	3:C:444:ARG:CD	2.51	0.40
3:C:556:TYR:HB3	3:C:558:LEU:CD1	2.39	0.40
3:C:576:SER:HG	3:C:607:HIS:CE1	2.24	0.40
3:C:758:ARG:HG2	3:C:759:VAL:N	2.37	0.40
1:A:1336:LEU:C	1:A:1338:LEU:H	2.25	0.40
1:A:1379:MET:HG3	1:A:1406:ARG:NH2	2.36	0.40
1:B:901:ASP:OD2	1:B:903:ARG:HB2	2.22	0.40
1:B:968:ARG:O	1:B:971:ILE:HG12	2.21	0.40
4:D:104:ARG:O	4:D:107:ARG:HG2	2.22	0.40
4:D:129:ARG:O	4:D:133:LYS:HG3	2.21	0.40
1:L:1262:ASP:O	1:L:1264:LYS:HE2	2.21	0.40
1:L:1387:LYS:HB3	1:L:1390:GLN:OE1	2.22	0.40
1:L:1434:ARG:NH1	1:L:1437:ASN:HB2	2.36	0.40
1:H:723:GLN:HA	1:H:753:CYS:SG	2.61	0.40
1:H:796:LEU:HD23	1:H:796:LEU:HA	1.84	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	377/1630 (23%)	328 (87%)	49 (13%)	0	100	100
1	B	466/1630 (29%)	398 (85%)	67 (14%)	1 (0%)	47	81
1	E	724/1630 (44%)	610 (84%)	114 (16%)	0	100	100
1	H	234/1630 (14%)	204 (87%)	29 (12%)	1 (0%)	34	72

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	J	163/1630 (10%)	145 (89%)	18 (11%)	0	100	100
1	K	255/1630 (16%)	229 (90%)	25 (10%)	1 (0%)	34	72
1	L	546/1630 (34%)	466 (85%)	80 (15%)	0	100	100
1	M	516/1630 (32%)	433 (84%)	83 (16%)	0	100	100
2	F	231/233 (99%)	228 (99%)	3 (1%)	0	100	100
3	C	508/1630 (31%)	424 (84%)	82 (16%)	2 (0%)	34	72
4	D	100/229 (44%)	91 (91%)	9 (9%)	0	100	100
4	I	54/229 (24%)	50 (93%)	4 (7%)	0	100	100
4	N	76/229 (33%)	71 (93%)	5 (7%)	0	100	100
4	O	57/229 (25%)	53 (93%)	4 (7%)	0	100	100
All	All	4307/15819 (27%)	3730 (87%)	572 (13%)	5 (0%)	54	86

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	C	674	ASN
1	K	1594	PHE
3	C	438	PRO
1	B	855	LEU
1	H	773	PRO

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	342/1437 (24%)	338 (99%)	4 (1%)	71	83
1	B	407/1437 (28%)	403 (99%)	4 (1%)	76	86
1	E	629/1437 (44%)	627 (100%)	2 (0%)	92	95
1	H	219/1437 (15%)	219 (100%)	0	100	100
1	J	150/1437 (10%)	149 (99%)	1 (1%)	84	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	K	236/1437 (16%)	234 (99%)	2 (1%)	81	89
1	L	482/1437 (34%)	477 (99%)	5 (1%)	76	86
1	M	471/1437 (33%)	463 (98%)	8 (2%)	60	78
2	F	204/209 (98%)	196 (96%)	8 (4%)	32	56
3	C	457/1437 (32%)	441 (96%)	16 (4%)	36	59
4	D	96/184 (52%)	95 (99%)	1 (1%)	76	86
4	I	53/184 (29%)	53 (100%)	0	100	100
4	N	74/184 (40%)	74 (100%)	0	100	100
4	O	55/184 (30%)	55 (100%)	0	100	100
All	All	3875/13878 (28%)	3824 (99%)	51 (1%)	70	81

All (51) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	128	TYR
1	E	678	ASN
2	F	749	HIS
2	F	834	ARG
2	F	835	GLN
2	F	854	ILE
2	F	869	GLN
2	F	879	ARG
2	F	891	LEU
2	F	899	ILE
3	C	389	LYS
3	C	467	VAL
3	C	495	THR
3	C	513	ASP
3	C	664	LEU
3	C	674	ASN
3	C	676	ARG
3	C	679	LEU
3	C	754	TYR
3	C	761	ASN
3	C	779	ASP
3	C	783	PHE
3	C	786	ASP
3	C	808	ASN
3	C	812	LEU

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Mol	Chain	Res	Type
3	C	819	LEU
1	M	638	ARG
1	M	676	ARG
1	M	762	PHE
1	M	843	ASP
1	M	856	LYS
1	M	907	LYS
1	M	927	ASP
1	M	1022	ARG
1	A	1393	ASP
1	A	1535	LYS
1	A	1563	ARG
1	A	1571	PHE
1	B	812	LEU
1	B	907	LYS
1	B	1155	LYS
1	B	1267	ARG
4	D	112	LYS
1	J	1578	ARG
1	K	1498	ARG
1	K	1604	LYS
1	L	1162	LYS
1	L	1267	ARG
1	L	1314	MET
1	L	1397	LYS
1	L	1443	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (110) such sidechains are listed below:

Mol	Chain	Res	Type
1	E	14	GLN
1	E	24	ASN
1	E	102	HIS
1	E	182	GLN
1	E	192	GLN
1	E	229	HIS
1	E	240	ASN
1	E	258	ASN
1	E	340	ASN
1	E	344	ASN
1	E	486	ASN
1	E	490	GLN

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Mol	Chain	Res	Type
1	E	520	ASN
1	E	531	GLN
1	E	560	GLN
1	E	572	ASN
1	E	602	ASN
1	E	603	GLN
1	E	607	HIS
1	E	653	ASN
1	E	674	ASN
1	E	678	ASN
1	E	720	ASN
2	F	869	GLN
3	C	426	GLN
3	C	538	GLN
3	C	548	GLN
3	C	572	ASN
3	C	603	GLN
3	C	677	GLN
3	C	720	ASN
3	C	771	GLN
3	C	785	HIS
3	C	808	ASN
3	C	831	ASN
3	C	853	ASN
1	M	581	GLN
1	M	588	ASN
1	M	591	HIS
1	M	607	HIS
1	M	642	HIS
1	M	653	ASN
1	M	684	GLN
1	M	720	ASN
1	M	761	ASN
1	M	805	GLN
1	M	808	ASN
1	M	888	ASN
1	M	889	ASN
1	M	964	ASN
1	A	1248	ASN
1	A	1275	HIS
1	A	1313	HIS
1	A	1344	ASN

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Mol	Chain	Res	Type
1	A	1356	HIS
1	A	1381	HIS
1	A	1437	ASN
1	A	1460	ASN
1	A	1469	ASN
1	A	1492	ASN
1	A	1555	GLN
1	A	1601	GLN
1	B	831	ASN
1	B	853	ASN
1	B	888	ASN
1	B	932	ASN
1	B	937	ASN
1	B	1045	ASN
1	B	1057	ASN
1	B	1083	GLN
1	B	1110	GLN
1	B	1142	GLN
1	B	1219	ASN
1	B	1233	HIS
1	B	1238	GLN
1	B	1275	HIS
4	D	150	ASN
4	D	202	ASN
1	J	1559	GLN
1	J	1601	GLN
1	J	1625	GLN
1	K	1373	ASN
1	K	1409	GLN
1	K	1437	ASN
1	K	1444	GLN
1	K	1559	GLN
1	K	1601	GLN
1	L	937	ASN
1	L	976	GLN
1	L	1057	ASN
1	L	1110	GLN
1	L	1149	ASN
1	L	1199	GLN
1	L	1220	ASN
1	L	1238	GLN
1	L	1248	ASN

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Mol	Chain	Res	Type
1	L	1270	GLN
1	L	1275	HIS
1	L	1291	GLN
1	L	1313	HIS
1	L	1458	HIS
1	L	1468	ASN
1	H	677	GLN
1	H	684	GLN
1	H	690	HIS
1	H	761	ASN
1	H	831	ASN
4	I	154	ASN
4	N	146	GLN
4	N	150	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
3	C	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	870:CYS	C	871:THR	N	7.18
1	C	659:SER	C	660:VAL	N	3.20

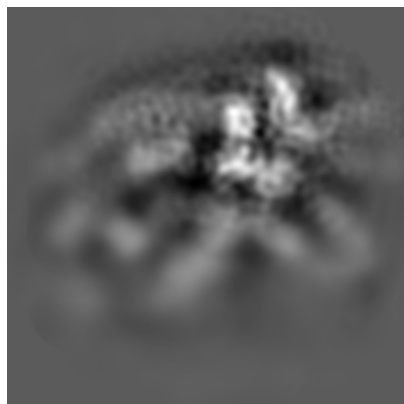
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-10754. These allow visual inspection of the internal detail of the map and identification of artifacts.

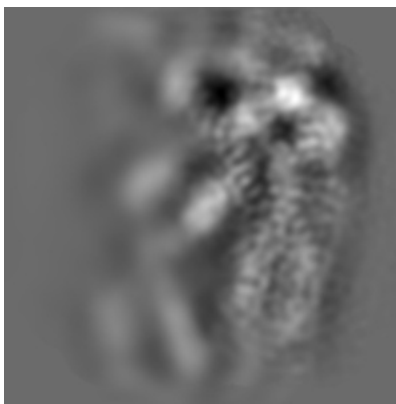
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

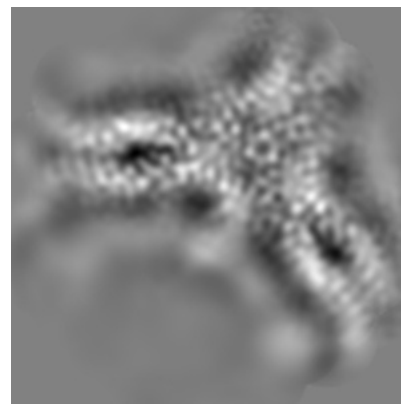
6.1.1 Primary map



X

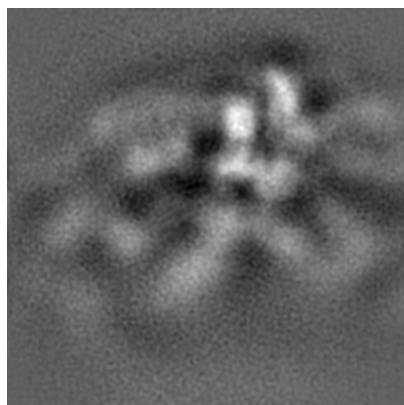


Y

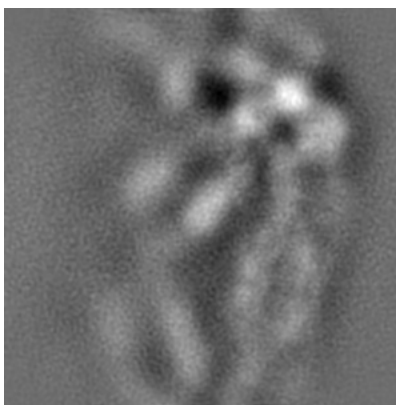


Z

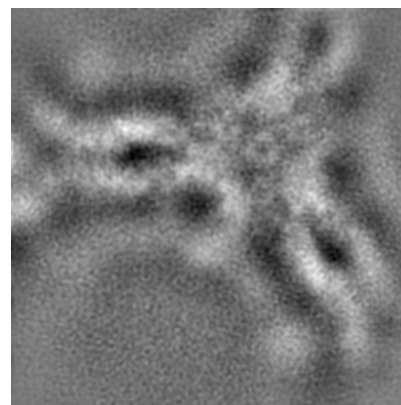
6.1.2 Raw map



X



Y

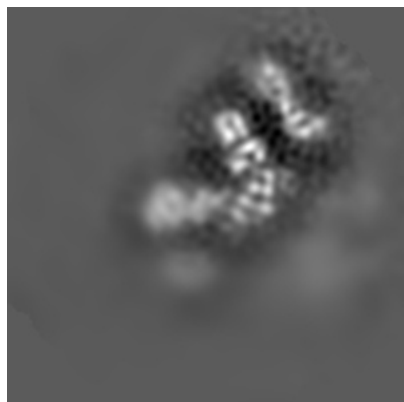


Z

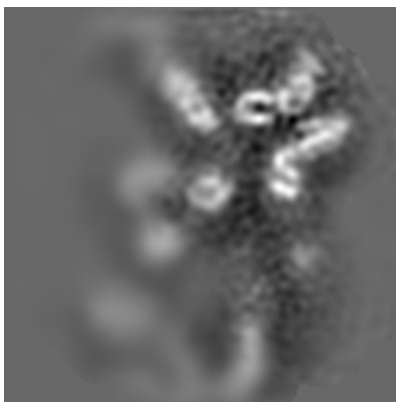
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

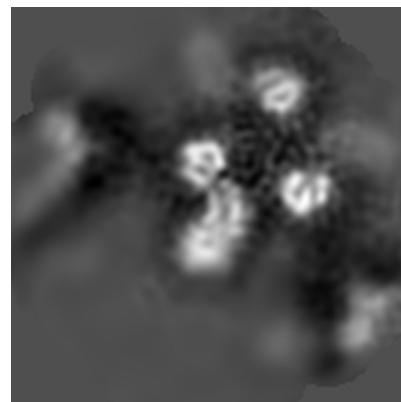
6.2.1 Primary map



X Index: 80

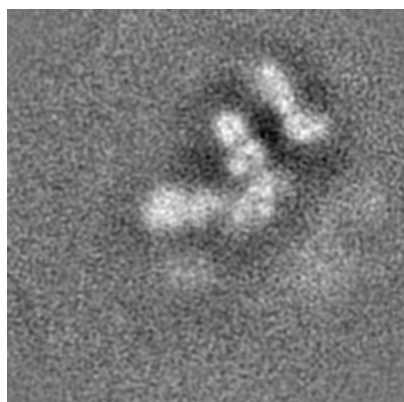


Y Index: 80



Z Index: 80

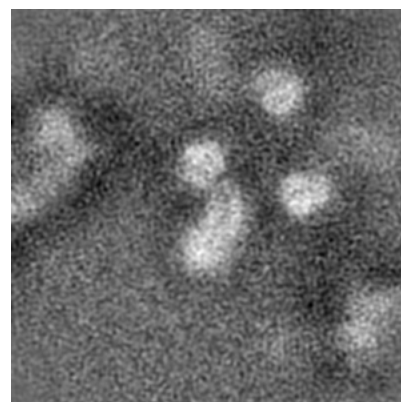
6.2.2 Raw map



X Index: 80



Y Index: 80

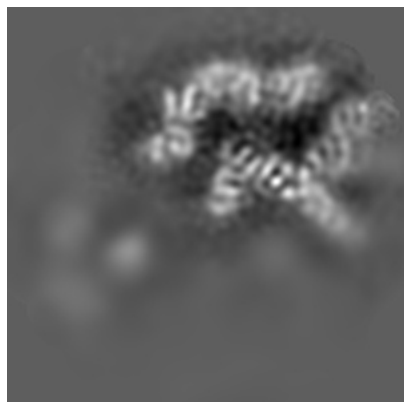


Z Index: 80

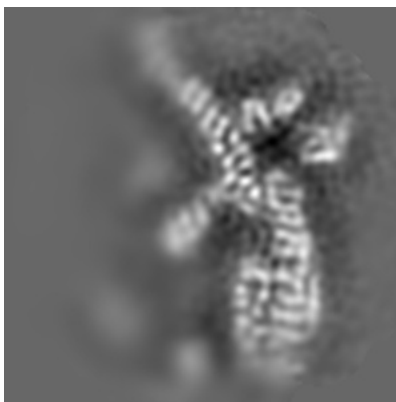
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

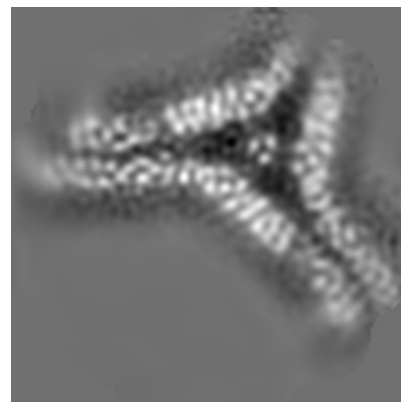
6.3.1 Primary map



X Index: 110

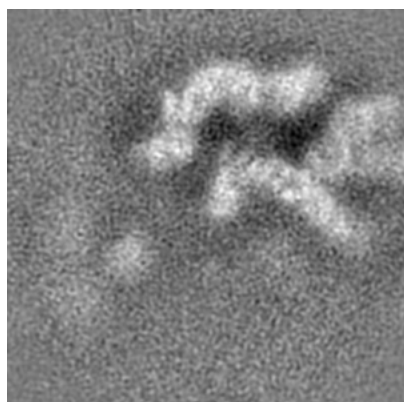


Y Index: 90



Z Index: 110

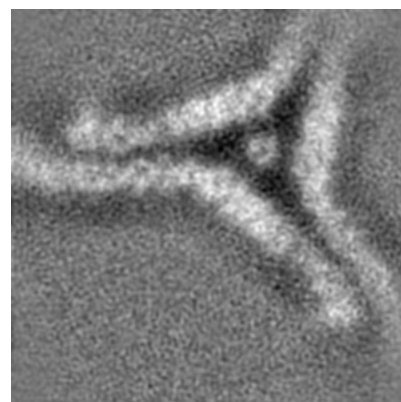
6.3.2 Raw map



X Index: 110



Y Index: 90

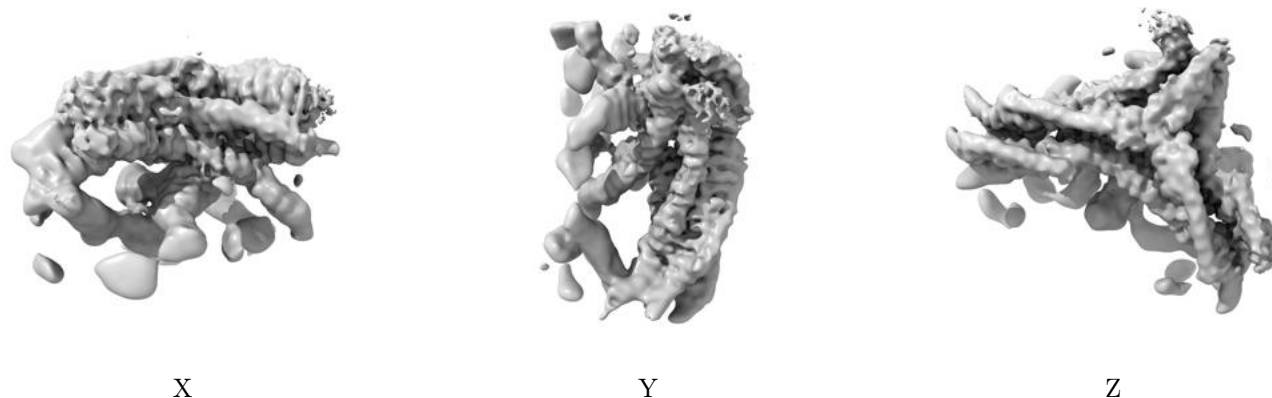


Z Index: 111

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

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.07. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.4.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

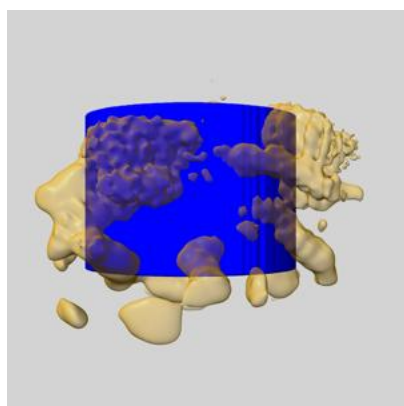
6.5 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

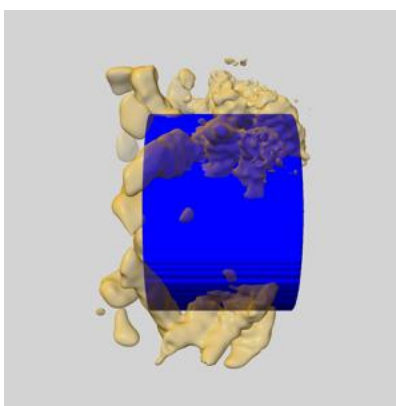
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

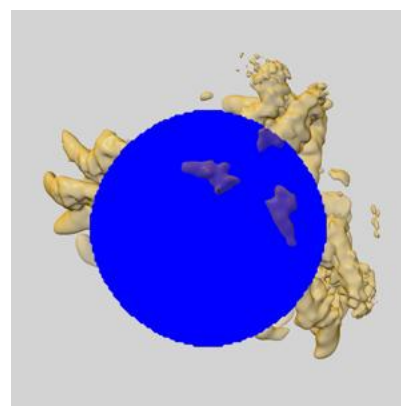
6.5.1 emd_10754_msk_1.map [i](#)



X



Y

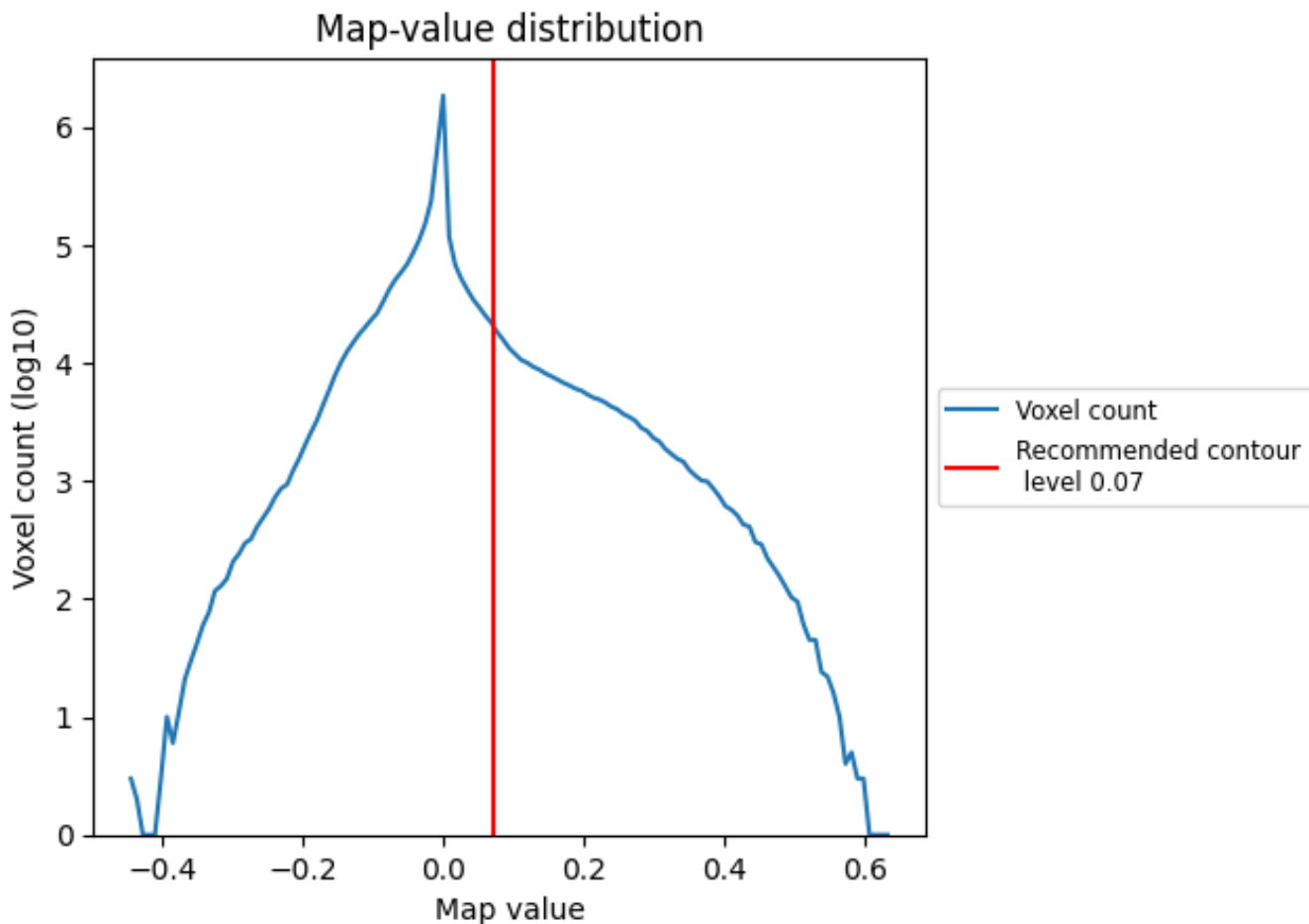


Z

7 Map analysis [i](#)

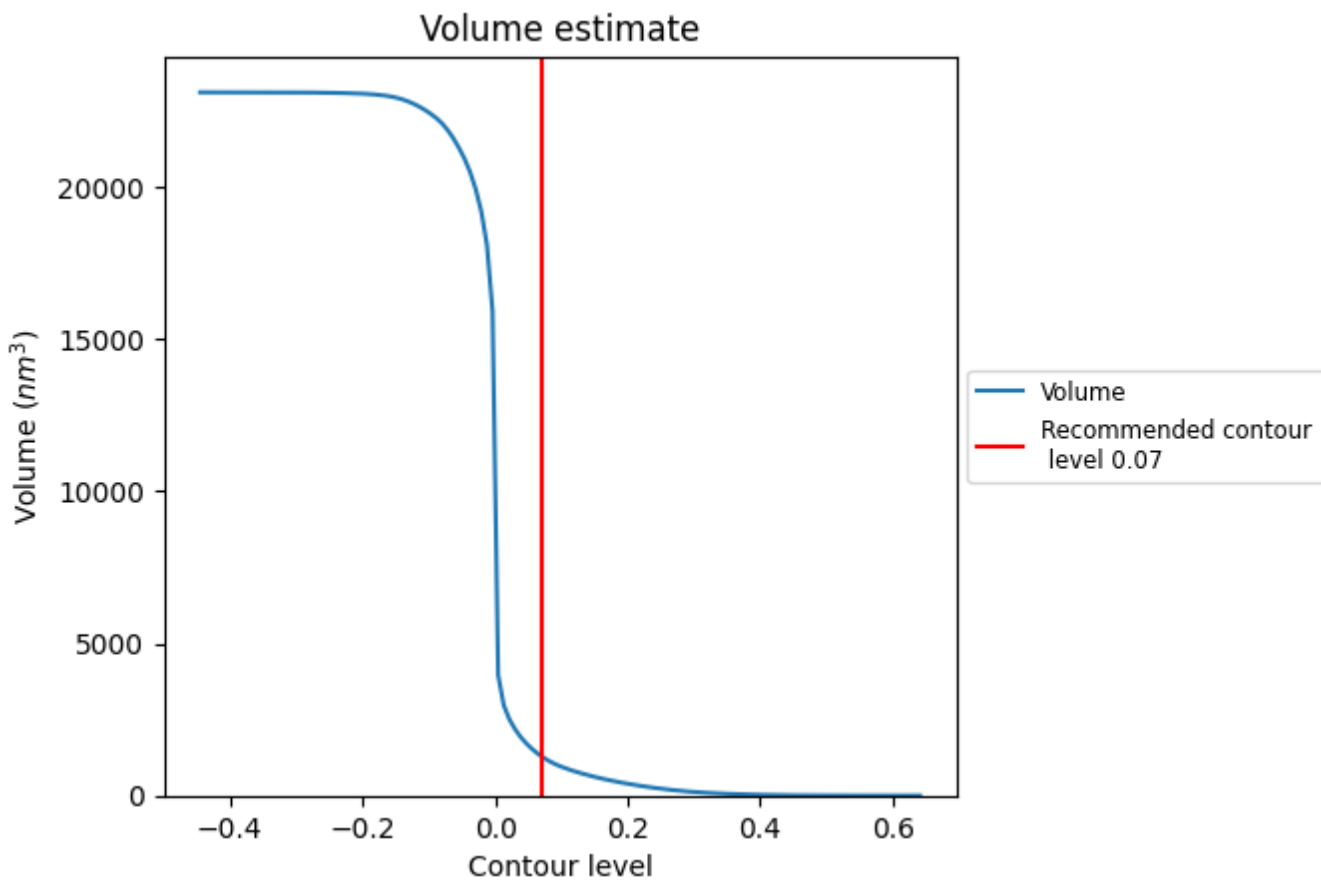
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

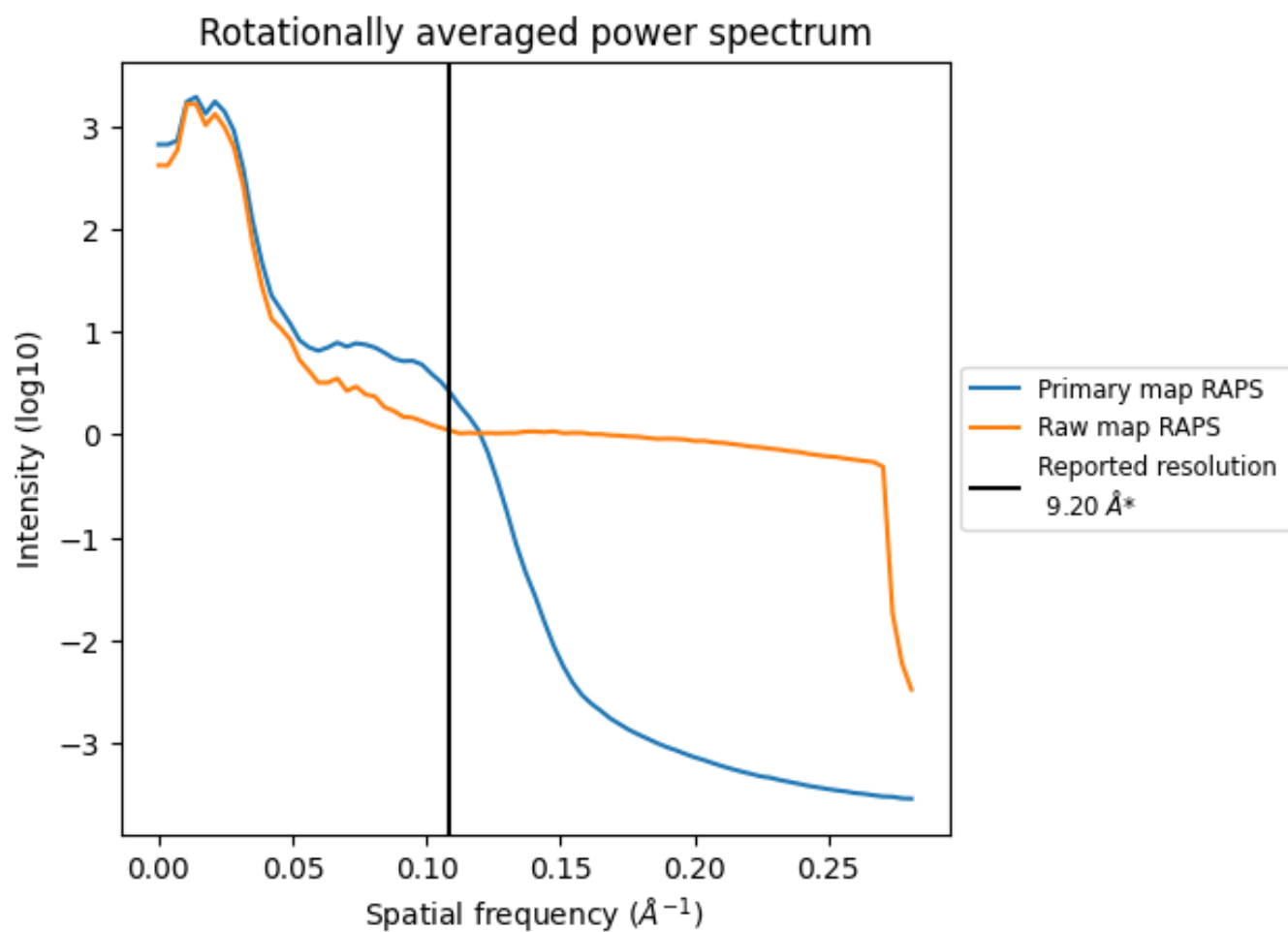
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1289 nm^3 ; this corresponds to an approximate mass of 1164 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)

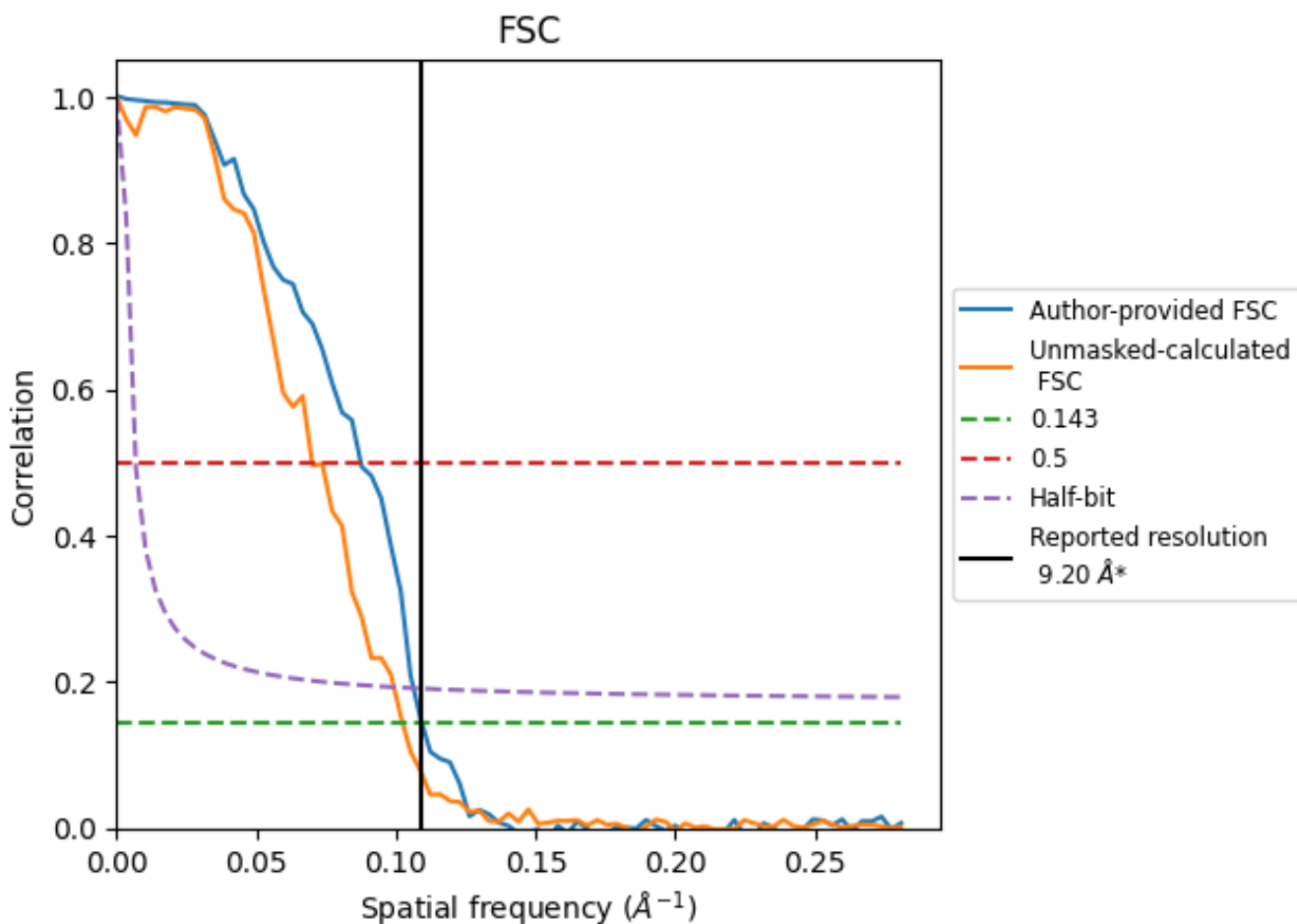


*Reported resolution corresponds to spatial frequency of 0.109 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.109\AA^{-1}

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	9.20	-	-
Author-provided FSC curve	9.14	11.44	9.40
Unmasked-calculated*	9.76	14.27	10.06

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

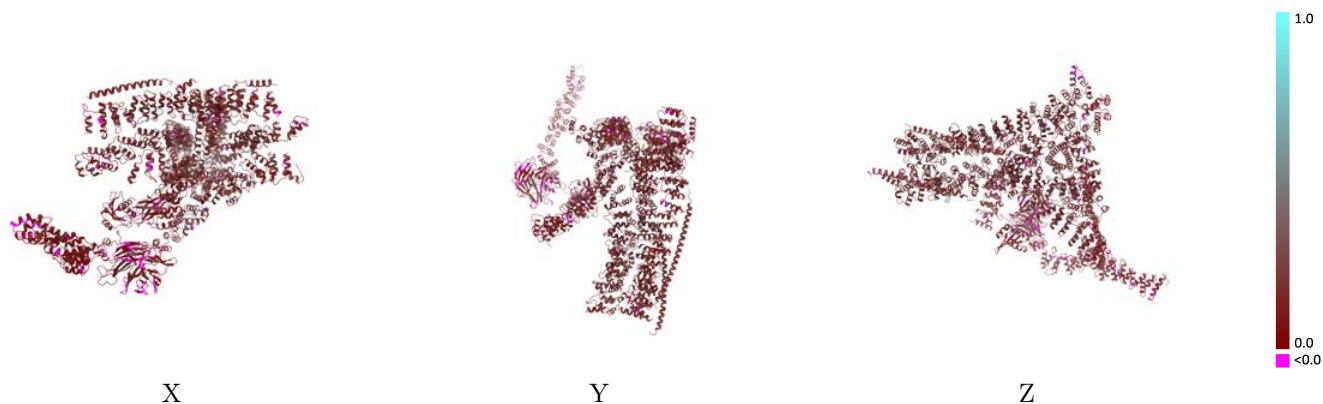
This section contains information regarding the fit between EMDB map EMD-10754 and PDB model 6YAI. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



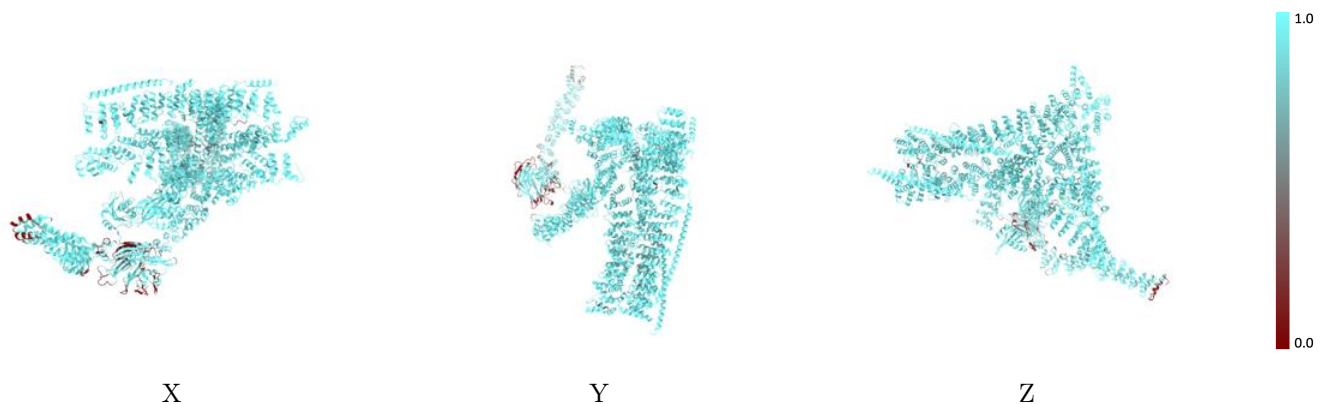
The images above show the 3D surface view of the map at the recommended contour level 0.07 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



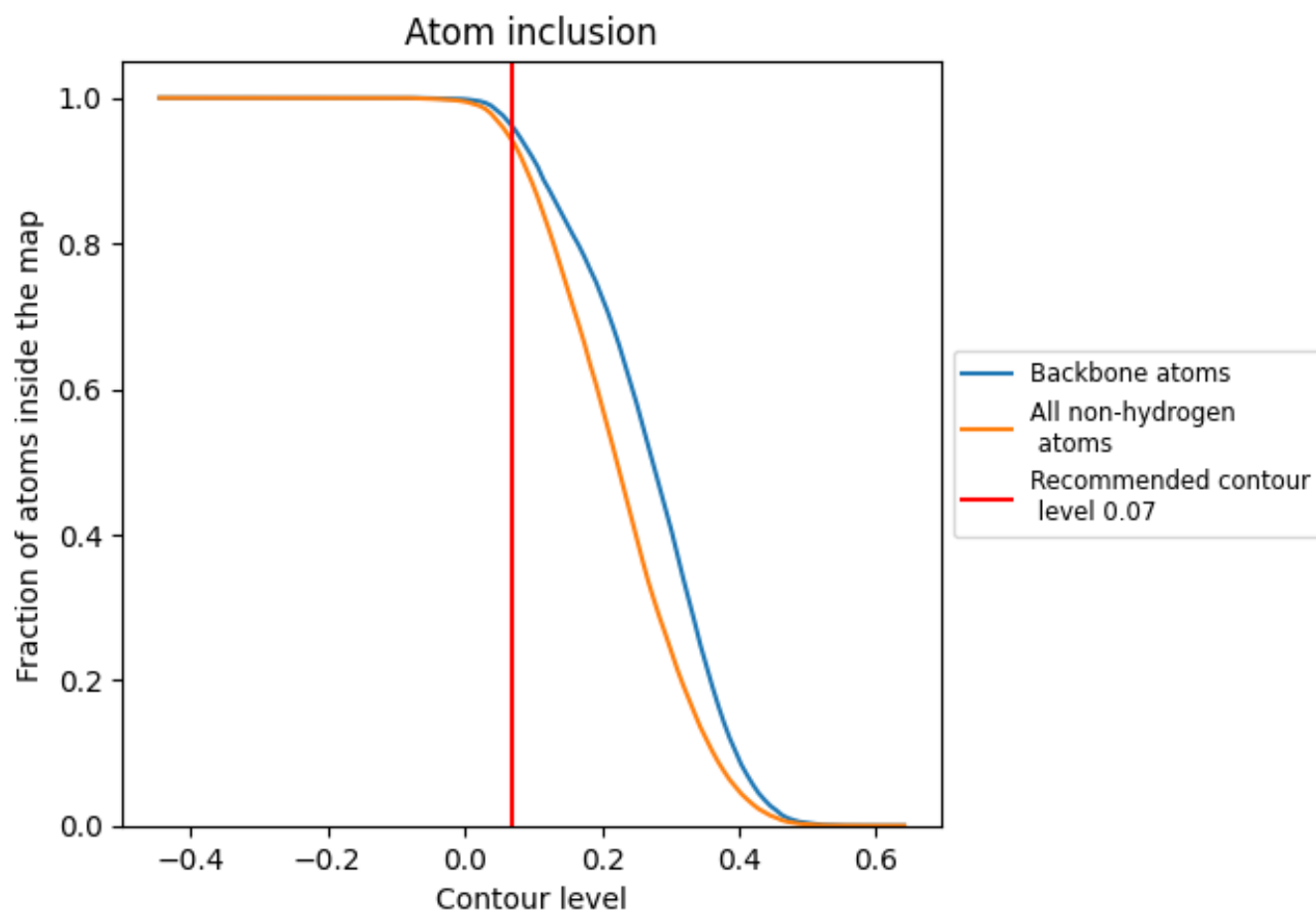
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.07).































9.4 Atom inclusion [i](#)



At the recommended contour level, 96% of all backbone atoms, 94% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.07) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9397	 0.1710
A	 0.9626	 0.2040
B	 0.9773	 0.2040
C	 0.9823	 0.1750
D	 0.9718	 0.2210
E	 0.7609	 0.0710
F	 0.9781	 0.1190
H	 0.9572	 0.1940
I	 0.9435	 0.2100
J	 0.9793	 0.1790
K	 0.9663	 0.1740
L	 0.9817	 0.1980
M	 0.9775	 0.2010
N	 0.9694	 0.1920
O	 0.9980	 0.2210

