



Full wwPDB EM Validation Report ⓘ

May 28, 2026 – 04:41 PM JST

PDB ID : 9VM8 / pdb_00009vm8
EMDB ID : EMD-65180
Title : Structure of DOCK6 octamer
Authors : Kukimoto-Niino, M.; Katsura, K.; Ishizuka-Katsura, Y.; Yonemochi, M.;
Hanada, K.; Shirouzu, M.
Deposited on : 2025-06-27
Resolution : 7.53 Å(reported)

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:

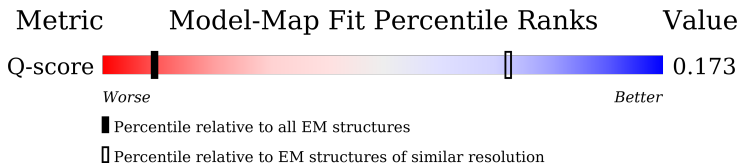
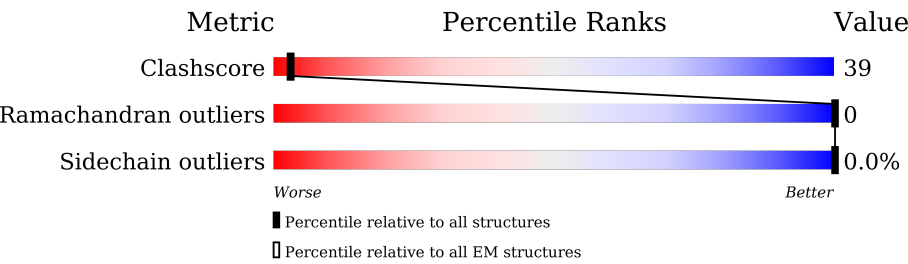
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 7.53 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.






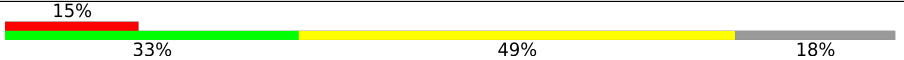
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	374 (7.04 - 8.01)

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	2053	<div><div>6%</div><div>29%</div><div>53%</div><div>18%</div></div>
1	B	2053	<div><div>6%</div><div>29%</div><div>53%</div><div>18%</div></div>
1	C	2053	<div><div>5%</div><div>28%</div><div>54%</div><div>18%</div></div>
1	D	2053	<div><div>5%</div><div>29%</div><div>53%</div><div>18%</div></div>

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Mol	Chain	Length	Quality of chain
1	E	2053	
1	F	2053	
1	G	2053	
1	H	2053	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 107608 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 Dedicator of cytokinesis protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		
1	C	1689	Total	C	N	O	S	0	0
			13477	8609	2332	2477	59		
1	D	1689	Total	C	N	O	S	0	0
			13477	8609	2332	2477	59		
1	B	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		
1	E	1689	Total	C	N	O	S	0	0
			13477	8609	2332	2477	59		
1	F	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		
1	G	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		
1	H	1689	Total	C	N	O	S	0	0
			13477	8609	2332	2477	59		

There are 48 discrepancies between the modelled and reference sequences:

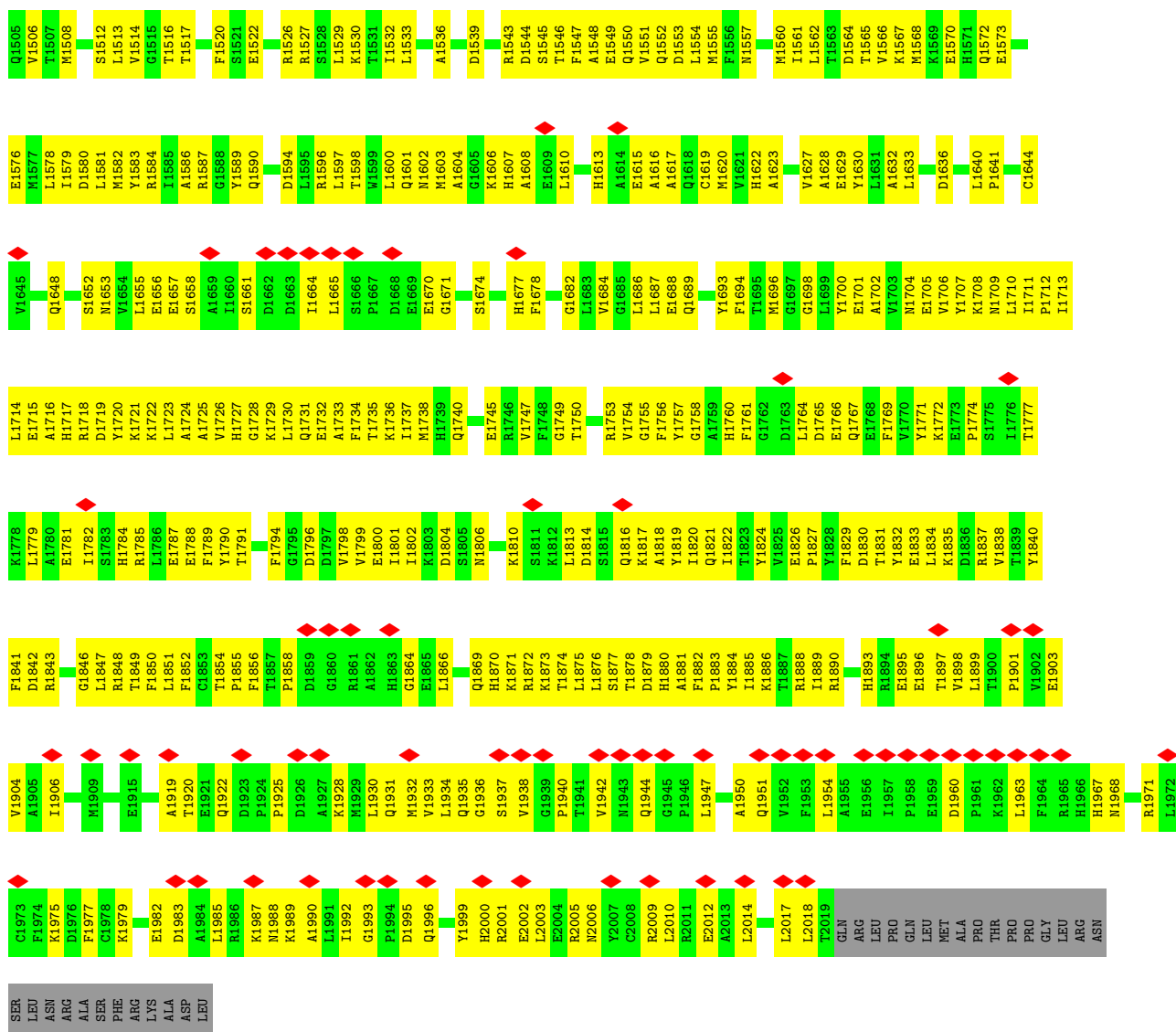
Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	expression tag	UNP Q96HP0
A	-4	GLY	-	expression tag	UNP Q96HP0
A	-3	SER	-	expression tag	UNP Q96HP0
A	-2	GLY	-	expression tag	UNP Q96HP0
A	-1	GLY	-	expression tag	UNP Q96HP0
A	0	SER	-	expression tag	UNP Q96HP0
C	-5	GLY	-	expression tag	UNP Q96HP0
C	-4	GLY	-	expression tag	UNP Q96HP0
C	-3	SER	-	expression tag	UNP Q96HP0
C	-2	GLY	-	expression tag	UNP Q96HP0
C	-1	GLY	-	expression tag	UNP Q96HP0
C	0	SER	-	expression tag	UNP Q96HP0
D	-5	GLY	-	expression tag	UNP Q96HP0
D	-4	GLY	-	expression tag	UNP Q96HP0

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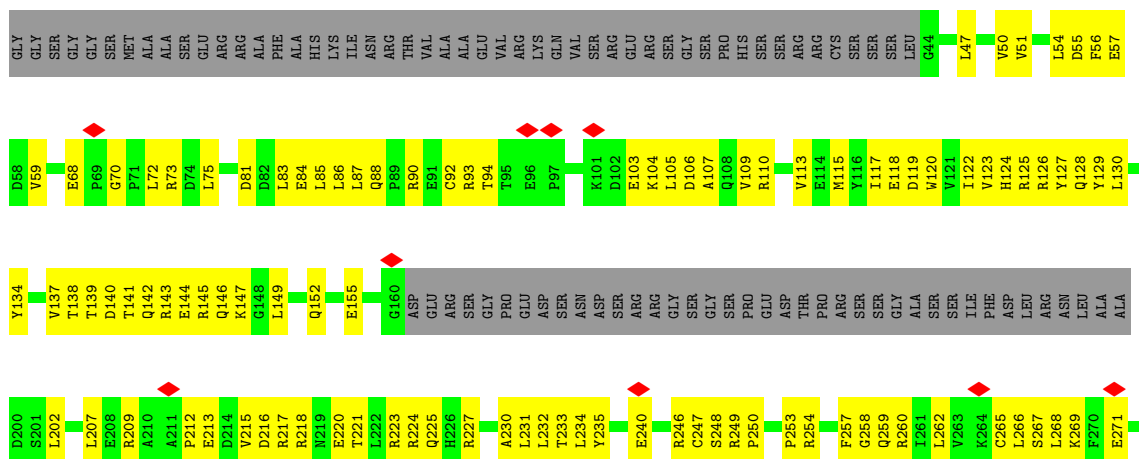
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Chain	Residue	Modelled	Actual	Comment	Reference
D	-3	SER	-	expression tag	UNP Q96HP0
D	-2	GLY	-	expression tag	UNP Q96HP0
D	-1	GLY	-	expression tag	UNP Q96HP0
D	0	SER	-	expression tag	UNP Q96HP0
B	-5	GLY	-	expression tag	UNP Q96HP0
B	-4	GLY	-	expression tag	UNP Q96HP0
B	-3	SER	-	expression tag	UNP Q96HP0
B	-2	GLY	-	expression tag	UNP Q96HP0
B	-1	GLY	-	expression tag	UNP Q96HP0
B	0	SER	-	expression tag	UNP Q96HP0
E	-5	GLY	-	expression tag	UNP Q96HP0
E	-4	GLY	-	expression tag	UNP Q96HP0
E	-3	SER	-	expression tag	UNP Q96HP0
E	-2	GLY	-	expression tag	UNP Q96HP0
E	-1	GLY	-	expression tag	UNP Q96HP0
E	0	SER	-	expression tag	UNP Q96HP0
F	-5	GLY	-	expression tag	UNP Q96HP0
F	-4	GLY	-	expression tag	UNP Q96HP0
F	-3	SER	-	expression tag	UNP Q96HP0
F	-2	GLY	-	expression tag	UNP Q96HP0
F	-1	GLY	-	expression tag	UNP Q96HP0
F	0	SER	-	expression tag	UNP Q96HP0
G	-5	GLY	-	expression tag	UNP Q96HP0
G	-4	GLY	-	expression tag	UNP Q96HP0
G	-3	SER	-	expression tag	UNP Q96HP0
G	-2	GLY	-	expression tag	UNP Q96HP0
G	-1	GLY	-	expression tag	UNP Q96HP0
G	0	SER	-	expression tag	UNP Q96HP0
H	-5	GLY	-	expression tag	UNP Q96HP0
H	-4	GLY	-	expression tag	UNP Q96HP0
H	-3	SER	-	expression tag	UNP Q96HP0
H	-2	GLY	-	expression tag	UNP Q96HP0
H	-1	GLY	-	expression tag	UNP Q96HP0
H	0	SER	-	expression tag	UNP Q96HP0





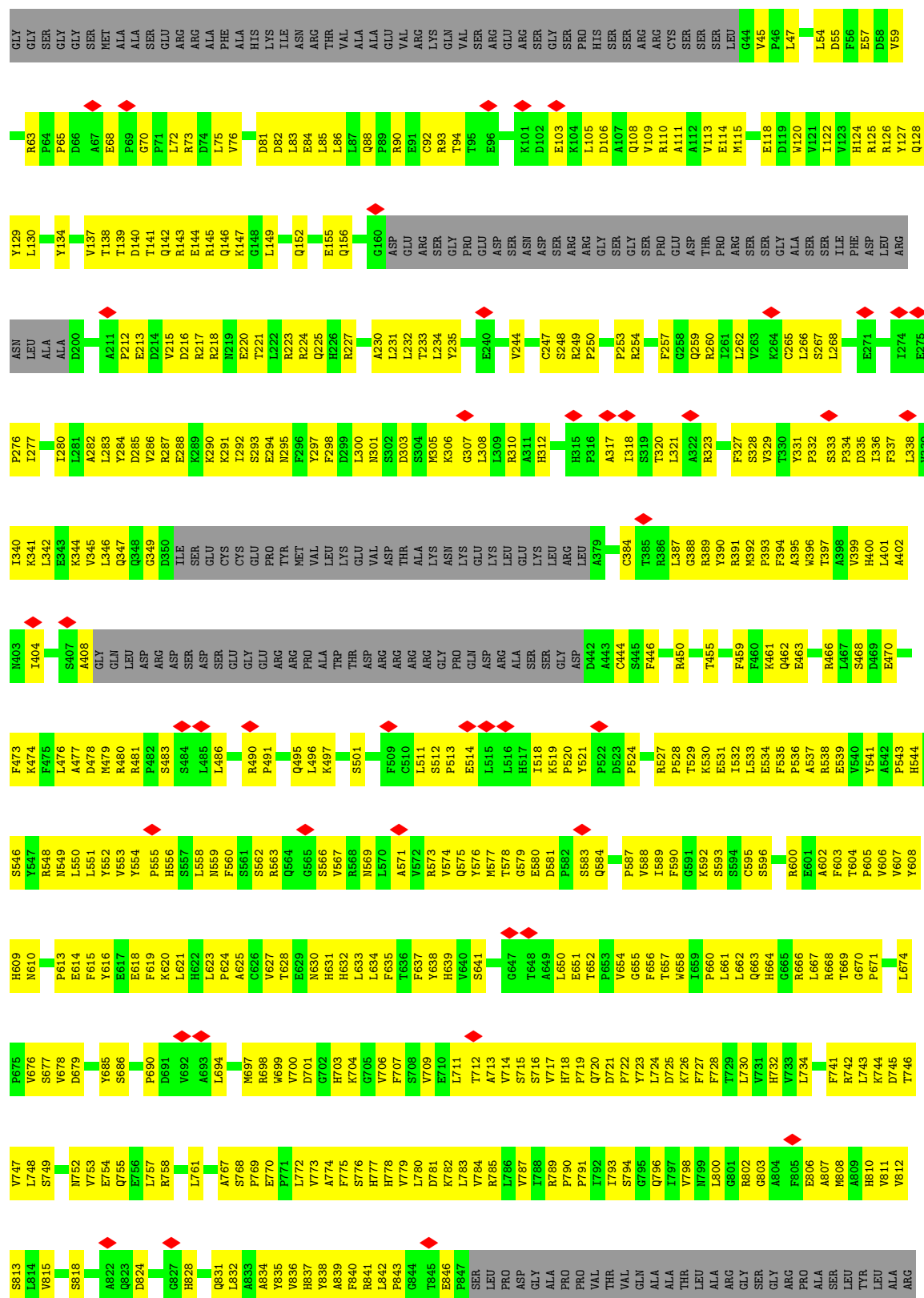
• Molecule 1: Dedicator of cytokinesis protein 6





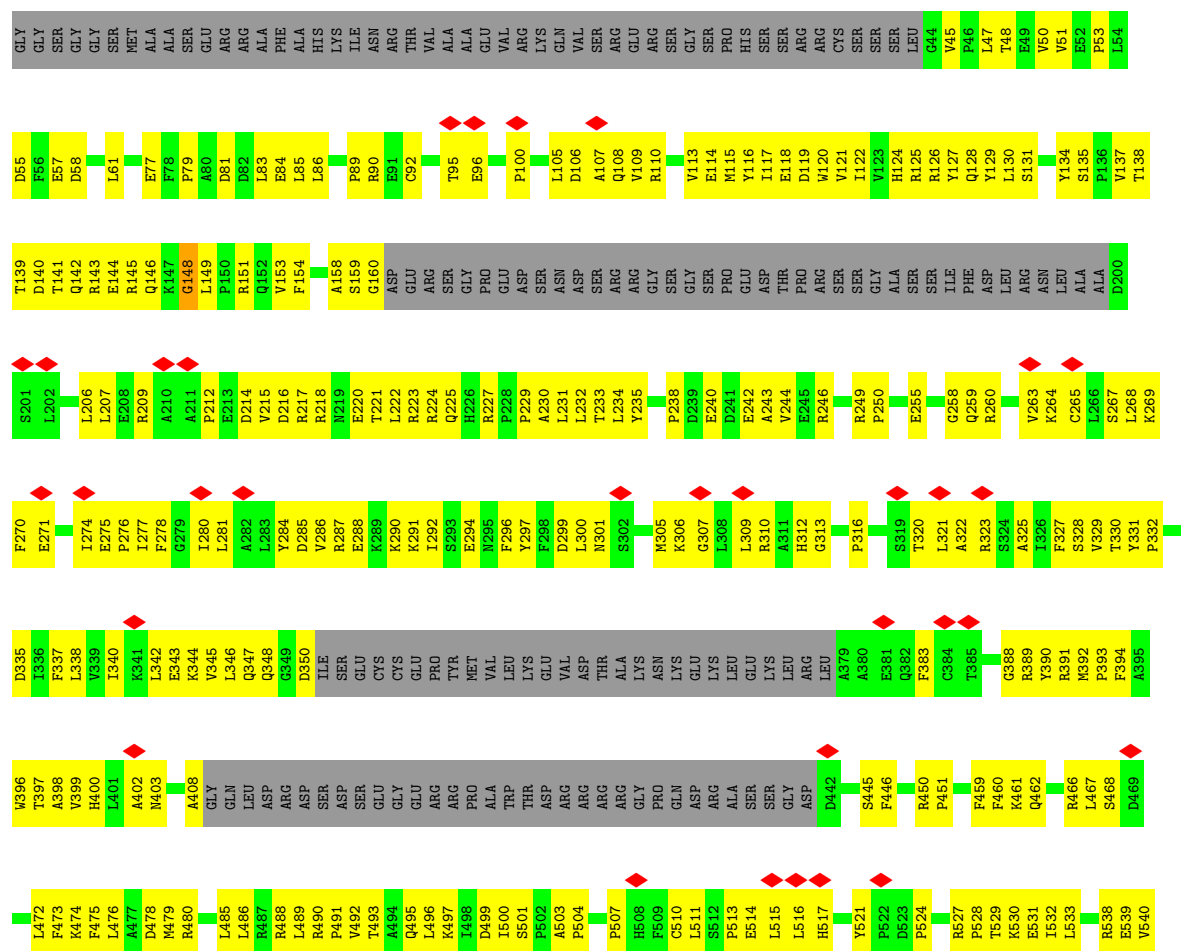


● Molecule 1: Dedicator of cytokinesis protein 6



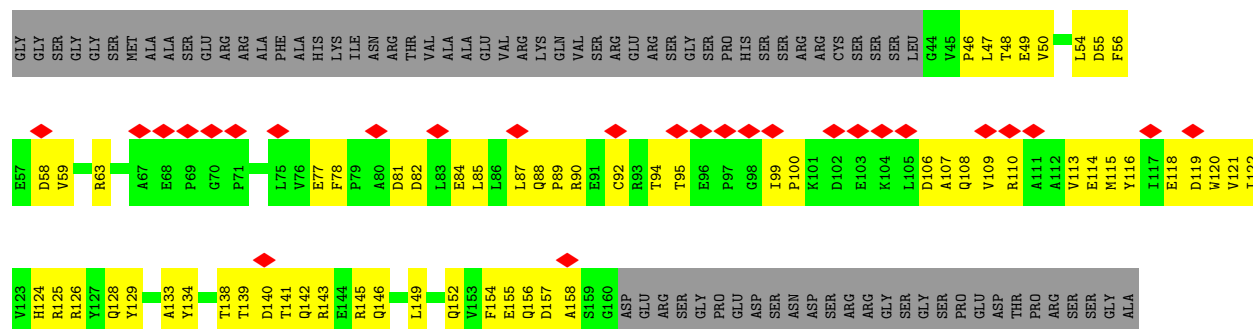
I1711	C1644	E1670	V1506	L1384	ARG	V1257	ASP	F1129	ALA	V1008	SER	L944
P1712	F1647	E1573	T1507	A1385	LEU	L1258	SER	L1130	SER	D1009	LYS	L947
L1714			M1508	E1387	GLU	V1259	ASP	L1131	PRO	G1010	ILE	L948
E1715	I1650	L1578	L1510	A1388	ALA	W1260	THR	H1132	SER	G1011	SER	
H1716		L1579	L1450	S1389	ILE	K1261	GLY	K1133	PRO	F1012	SER	
H1717	M1653	D1580	L1451	S1390	LEU	K1262	GLY	K1134	SER	V1013	SER	
D1718		L1581	F1452	L1391	GLY	N1263	GLU	A1135	VAL	F1014	ASN	L952
R1719	E1656	M1582	G1453	V1392	THR	T1264	ASP	I1136	SER	S1015	ASN	D953
K1720	E1657	Y1583	T1516	L1393	ILE	P1265	ASP	S1137	SER	L1016	PRO	P954
K1721	S1658	R1584	T1517	D1394	GLY	A1266	ILE	A1138	THR	V1017	ASP	P955
K1722		I1585	Q1518	L1395	ALA	A1267	GLY	V1139	THR	R1018	LEU	R956
L1723	A1659	I1586	M1519	T1396	ARG	L1268	THR	H1141	SER	A1019	ALA	
A1724	I1660	R1587	F1520	L1397	GLN	Q1270	ILE	L1142	GLN	H1020	VAL	R959
V1725	S1661	G1588	S1521	E1398	GLU	W1271	ASN		SER	Y1021	ALA	P960
H1726	D1662	Y1589	E1522	I1399	GLU	T1272	PRO	H1146	THR	Q1022	PRO	P961
H1727	L1663	E1523	E1523	V1400	VAL	W1273	SER		PHE	K1024	GLY	G962
K1728	L1664	L1462	H1524	Q1401	ARG	L1276	VAL	D1149	SER	A1025	SER	R963
K1729	L1665	C1463	L1525	T1402	ARG	T1277	ALA		ALA	T1026		P964
L1730		V1403	V1403	SER	SER	T1278	MET	A1153	SER	R1027		P965
L1731	S1666	M1404	L1405	ARG	GLU	F1279	ALA	E1154	ALA	L1028		D966
E1732	P1667	L1466	S1406	GLU	ILE	Q1280	ILE		A1088	G1029		E967
A1733	P1667	L1467	E1407	ARG	L1281	L1281	GLY	K1158	P1089	S1030		P968
F1734	D1668	R1468	R1468	SER	G1282	G1282	GLY	A1159	P1091	T1031		P969
F1735		H1469	H1469	PRO	L1284	L1284	GLY	R1160	K1092	P1032		L970
K1736	G1671	C1470	E1471	PHE	L1285	L1285	PRO	V1161	V1093	N1033		L971
K1737	F1672	L1471	S1472	GLY	D1286	D1286	LEU	A1162	K1094	G1034		P972
M1738	S1674	L1412	V1413	PRO	L1287	L1287	ALA	E1163	T1095	A1035		S973
H1739	G1675	L1413	L1413	GLU	L1288	L1288	PRO	L1164	S1095	A1036		P975
Q1740	K1676	G1414	G1414	ASN	Y1289	Y1289	SER	L1166	M1096	L1037		G976
S1741		L1476	T1476	VAL	L1290	L1290	ARG	P1167	E1098	L1038		L977
E1745		R1477	F1477	ARG	C1291	C1291	ARG	L1168	L1099	T1039		E978
R1746		L1478	R1478	ARG	L1416	L1416	ALA	P1169	S1100	L1040		E979
V1747		T1479	H1479	TRP	L1417	L1417	SER	L1169	G1101	R1041		E980
F1748		H1480	H1480	ARG	K1418	K1418	ILE	S1170	P1102	M1042		E981
G1749		A1481	A1481	LYS	V1419	V1419	GLN	I1171	F1103	E1043		R982
T1750		S1482	S1482	SER	V1420	V1420	GLY	A1172	F1104	F1044		P983
V1751		A1483	A1483	VAL	L1421	L1421	GLY	R1173	Q1105	T1045		H984
F1752		L1484	L1484	THR	Y1422	Y1422	PRO	D1174	Q1106	R1046		K985
R1753		Y1485	Y1485	HIS	S1423	S1423	THR	T1175	H1107	I1047		P986
R1754		L1486	L1486	LYS	G1425	G1425	ALA	P1177	F1108	L1048		V987
V1755		L1487	L1487	LYS	S1426	S1426	SER	P1177	L1109	C1049		E988
G1756		L1488	L1488	GLN	A1427	A1427	ARG	R1178	A1110	S1050		E991
Y1757		M1489	M1489	THR	Q1428	Q1428	ALA	L1179	G1111	H1051		H992
G1758		R1490	R1490	SER			GLY	F1182	L1112	E1052		L993
A1759		Q1491	Q1491	ASP	L1431	L1431	ASP	A1183	L1113	H1053		P994
H1760		N1492	N1492	VAL	F1432	F1432	VAL	E1184	T1114	Y1054		A995
F1761		F1493	F1493	ASP	L1433	L1433	ASP	GLY	E1116	T1056		S996
G1762		E1494	E1494	LYS	Q1434	Q1434	SER	PRO	L1117	L1057		L997
D1763		L1495	L1495	LYS	H1435	H1435	THR	GLY	A1118	N1058		A996
L1764		G1496	G1496	THR	G1436	G1436	PHE	GLN	A1119	L1059		P999
L1765		H1497	H1497	LYS	L1437	L1437	LYS	ARG	L1120	P1060		F1000
E1766		F1498	F1498	LYS	M1374	M1374	SER	S1249	A1121	C1061		F934
Q1767		A1500	A1500	THR	E1375	E1375	LYS	S1250	E1122	S1002		P935
E1768		R1501	R1501	LEU	A1378	A1378	SER	T1252	ARG	D1003		Q936
F1769		V1502	V1502	ASP			LEU	L1253	P1123	L1004		L937
V1770		K1503	K1503	MET			ALA	E1124	E1125	L1005		M938
Y1771		M1504	M1504	LYS	G1382	G1382	MET	A1255	A1126	S1006		V939
K1772		V1444	V1444	ALA	N1383	N1383	C1256	LEU	A1128	L1007		K940
										PRO		S941

- Molecule 1: Dedicator of cytokinesis protein 6



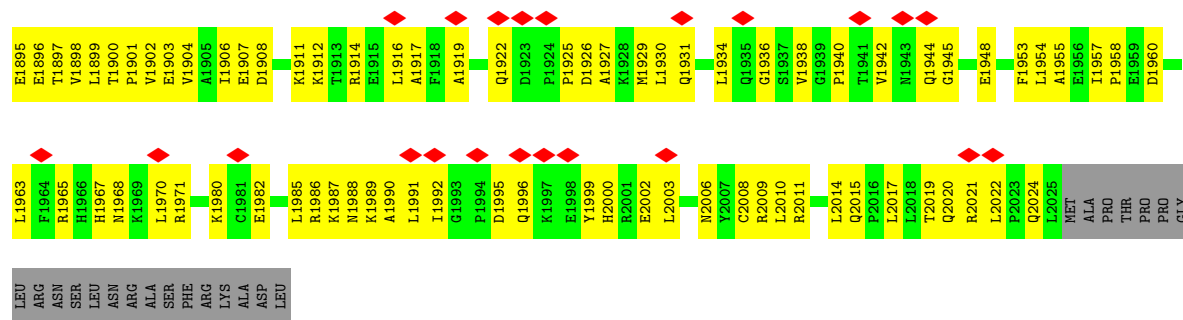
S1389	ALA	M1263	GLU	S1441	SER	L1007	L944	A807	K744	V607	Y641
L1390	ILE	T1264	GLY	L1142	VAL	V1008	H945	M808	D745	Y608	T545
V1391	LEU	E1265	ASP	L1143	SER	R1009	L946	A909	L746	H609	
V1392	GLY	P1266	ILE	C1144	SER	R1010	L947	H810	V747	N610	
L1393	THR	A1267	THR	G1145	THR	G1011		V811	L748	K611	R548
D1394	ILE	H1268	ALA	H1146	THR	F1012	Q950	S813	S749	S612	N549
T1395	THR	L1269	THR	D1147	SER	V1013	R951	L814	E750	P813	L550
L1396	ALA	Q1270	ILE	T1148	GLN	F1014	L952	D953	G751	E614	L551
E1397	ARG	R1271	ASN	D1149	SER	L1015	R953	V815	V753	F615	Y552
I1398	GLN	A1272	PRO	R1150	PRO	T954	T954	H816	E754	E616	V553
I1399	GLU	R1273	SER	R1151	THR	P955	P955	R817	ASP	E617	
V1400	VAL	A1274	VAL	P1152	PHE	R1018	R956	S818	ASP	E618	L558
Q1401	VAL	A1153	ALA	A1153	SER	R1019	K957	S819	T755	F619	N559
T1402	ARG	E1154	MET	E1154	SER	H1020	L958		L757	K820	F560
V1403	ARG	V1157	ALA	V1157	Q1087	Y1021	R959	R826	R758	L621	S561
M1404	SER	K1158	ILE	K1158	A1088	K1022	F960	G827	V692	H622	S562
S1406	GLU	A1159	ALA	A1159	P1089	V1024	P961	H828	V697	L623	R563
E1407	ARG	R1160	GLY	R1160	D1090	A1025	F964	P830	M697	T628	Q564
A1408	SER	V1161	PRO	V1161	P1091	T1026	L965	Q831	R698	E629	G565
R1409	LEU	E1162	LEU	E1162	K1092	R1027	D966	L832	V699	N630	S566
E1410	PHE	L1284	ALA	L1163	V1093	L1028	D967	A833	V700	H631	V567
S1411	GLY	L1164	PRO	L1164	T1094	Q1029	P968	Y835	D701	H632	R568
V1412	ASN	Y1165	GLY	Y1165	S1095		T969	Y836	G702	L633	N569
L1413	PRO	L1166	SER	L1166	M1096	N1033	A970	H837	H703	L634	L570
G1414	GLU	P1167	ARG	P1167		P1034	L971	H837	K704		A571
A1415	ASN	L1168	ALA	L1168	L1099	A1035	V972	H837	F707	Y638	V572
L1416	VAL	L1169	SER	L1169	R1104	A1036	G973	Y838	S708	H639	R573
L1417	TRP	S1170	ILE	S1170	Q1105	L1037	S974	A839	V640	Q575	V574
K1418	ARG	T1171	GLN	T1171	Q1105	L1038	V975	F840	S776	Q541	Y576
V1419	LYS	A1172	GLY	A1172	F1108	T1039	G976		H777	C642	M577
SER	PRO	R1173	GLY	R1173	L1109	L1040	L977		H778		T578
T1420	THR	D1174	PRO	D1174	A1110	R1041	S978	LEU	T712	R645	G579
V1421	VAL	T1175	PRO	T1175	E1112	E1042	V979	PRO	A713	P646	E580
S1422	THR	L1176	THR	L1176	G1113	E1043	T981	ASP	S715	G647	D581
G1299	ALA	P1177	ALA	P1177	L1112	F1044	R982	GLY	S716	T648	P582
K1300	SER	R1178	SER	R1178	L1113	T1045	R983	ALA	S716	A649	S583
K1301	ARG	L1179	ARG	L1179	L1114	R1046	V983	PRO	S717		Q584
A1302	ALA		ALA		T1115	T1047	H984	PRO	H718		A585
F1303	GLY	F1182	GLY	F1182	E1116	L1048	K985	VAL	P719	T652	L586
ARG	GLU	A1183	C1243	A1183	L1117	C1049	D986	THR	Q720	P653	P587
ILE	ILE	E1184	A1244	E1184	A1118	S1050	V987	VAL	V654	V654	V588
ASN	ASN	GLY	L1245	GLY	L1119	E1052	L989	GLN	P722	G655	I589
SER	SER	PRO	A1247	PRO	A1120	E1052	A990	ALA	P791	F656	F590
LEU	LEU	GLN	E1248	GLN	L1121	H1053	E991	ALA	I792	T657	G591
PHE	PHE	SER	S1249	SER	E1124	V1055	H992	THR	L724	T657	K592
LYS	LYS	ARG	R1251	ARG	A1128	T1056	L993	ALA	K726	I659	S593
LYS	LYS	LEU	T1262	LEU	F1129	L1057	N994	ARG	G727	P660	S594
SER	SER	ALA	L1253	ALA	L1130	N1058	A995	GLY	F728	L661	C595
LEU	LEU	SER	L1254	SER	L1131		S996	GLY	T729	L662	S596
ASP	ASP	NET	A1265	NET	H1132	S1065	A998	GLY	L730	Q663	E597
MET	MET	LEU	C1266	LEU	K1133	PRO	F999	ARG	V731	H664	F598
LYS	LYS	ASP	V1257	ASP	K1134	PRO	F934	PRO	H732	G665	T599
ALA	ALA	SER	L1258	SER	A1135	ALA	F1000	ALA	V733	R666	R600
ARG	ARG	ASP	W1259	ASP	I1136	SER	L1001	SER	L734	L667	E601
LEU	LEU	THR	V1260	THR	I1136	PRO	S1002	LEU	E735	R668	A602
GLU	GLU	GLY	L1261	GLY	S1137	SER	L1004	THR	E736	T669	F603
T1386			K1262		A1138	PRO		LYR	F741	C673	T604
					V1139	PRO	K940	ALA	R742	L674	P605
					H1140				L743	P675	V606

- Molecule 1: Dedicator of cytokinesis protein 6

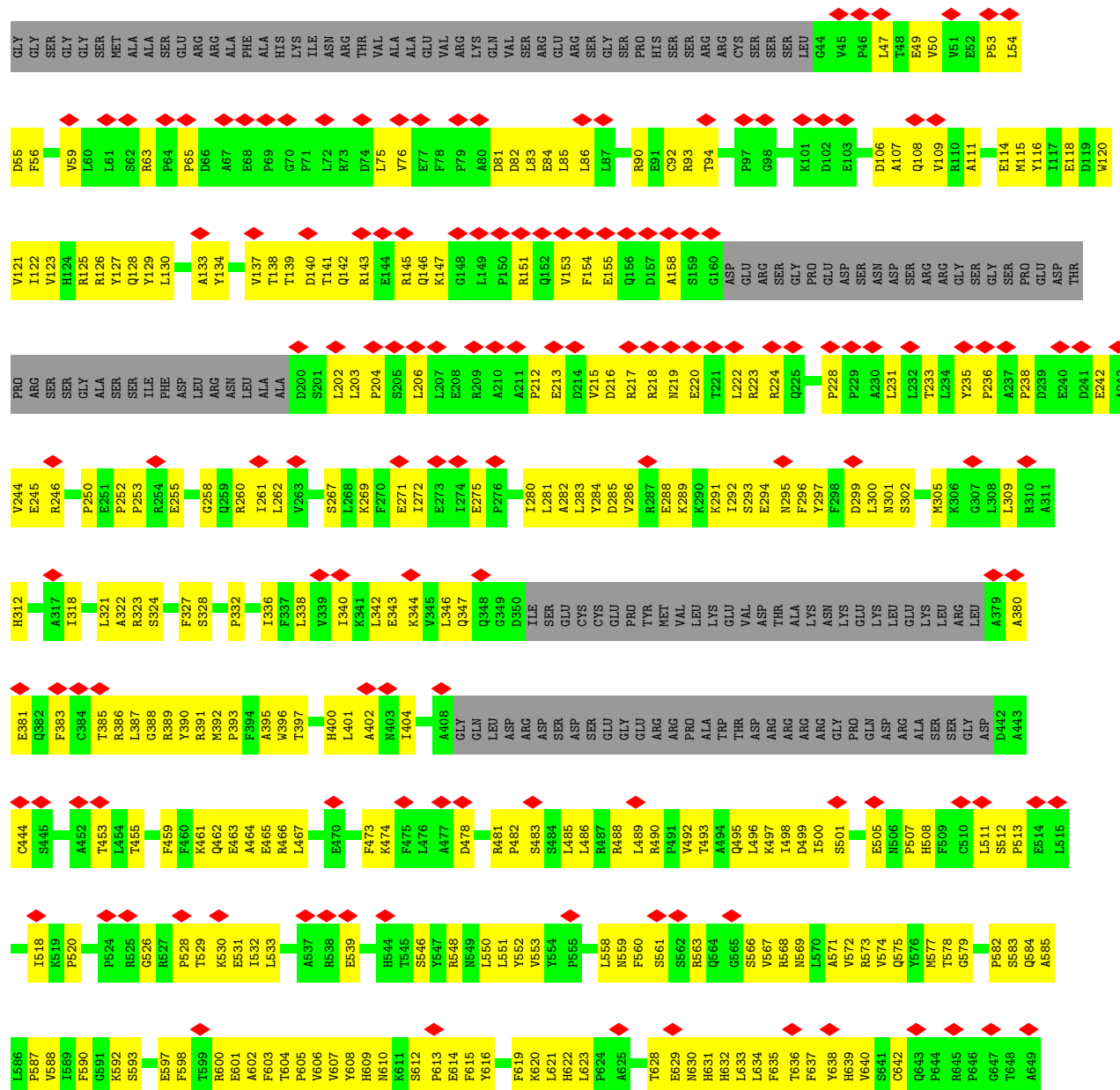




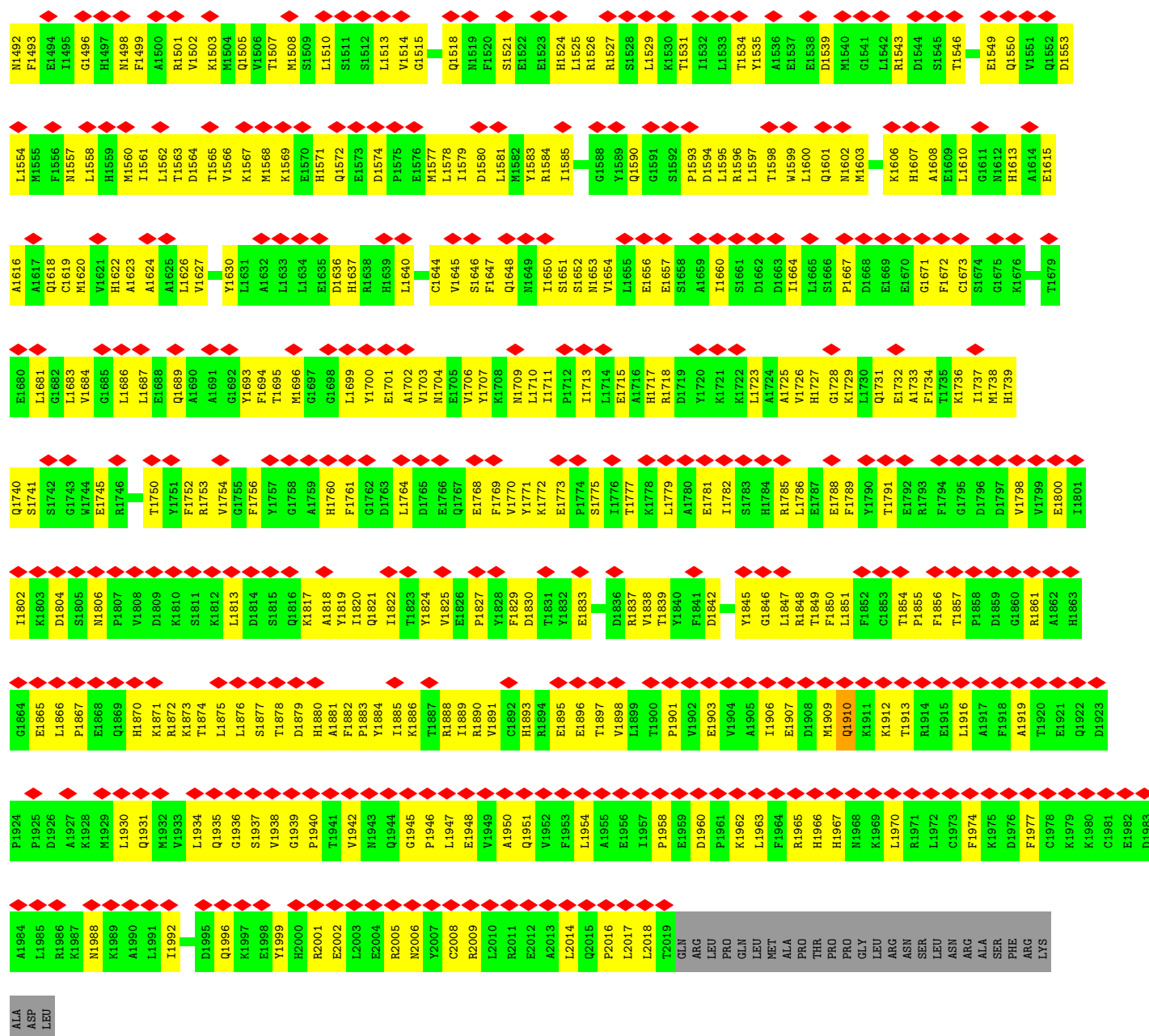




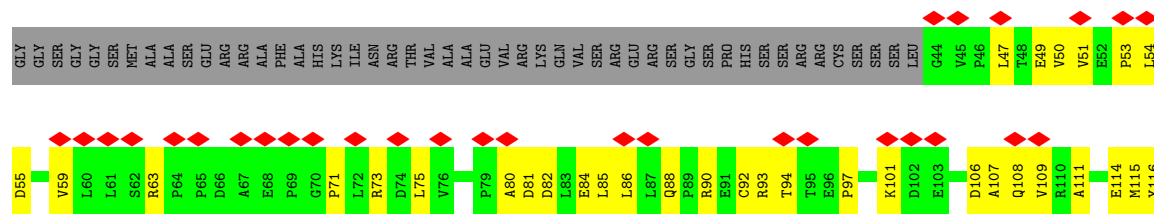
● Molecule 1: Dedicator of cytokinesis protein 6



A1430	L1431	F1432	L1433	Q1434	H1435	G1436	L1437	A1438	T1439	Q1440	R1441	A1442	L1443	V1444	S1445	K1446	F1447	P1448	E1449	L1450	L1451	F1452	D1455	L1458	C1459	A1460	D1461	L1462	C1463	L1464	R1465	L1466	L1467	R1468	H1469	G1470	G1471	S1472	R1473	L1474	S1475	T1476	L1477	R1478	T1479	H1480	A1481	S1482	A1483	S1484	L1485	Y1486	L1487	L1488	M1489	R1490	Q1491		
T1370	K1371	D1372	E1373	M1374	H1375	H1376	E1377	A1378	L1379	V1380	E1381	G1382	N1383	L1384	A1385	T1386	E1387	A1388	S1389	L1390	V1391	V1392	L1393	D1394	T1395	L1396	I1397	I1398	I1399	V1400	Q1401	L1402	V1403	M1404	L1405	S1406	E1407	A1408	R1409	E1410	S1411	V1412	G1413	A1414	A1415	E1416	L1417	K1418	V1419	V1420	L1421	Y1422	S1423	L1424	G1425	S1426	L1427	Q1428	S1429
THR	PHE	LYS	LYS	SER	LEU	ASP	MET	LYS	ALA	GLU	GLU	ALA	LEU	GLY	THR	ILE	GLY	ALA	ARG	GLN	GLU	MET	VAL	ARG	ARG	SER	ASN	GLU	ARG	PRO	PHE	GLY	ASN	PRO	GLU	VAL	ARG	TRP	ARG	LYS	SER	VAL	THR	HIS	TRP	LYS	GLN	THR	SER	ASP	ARG	VAL	ASP	LYS					
C1243	A1244	S1245	S1246	S1249	E1250	R1251	T1252	L1253	L1254	A1255	C1256	V1257	L1258	W1259	V1260	L1261	K1262	N1263	T1264	E1265	P1266	A1267	L1268	L1269	Q1270	R1271	W1272	L1276	T1277	L1278	P1279	Q1280	L1281	G1282	R1283	L1287	L1288	Y1289	L1290	C1291	A1294	F1295	E1296	Y1297	K1300	K1301	A1302	F1303	GLU	ARG	ILE	ASN	SER	LEU					
E1082	H1053	Y1054	V1055	T1056	L1057	M1058	L1059	P1060	C1061	L1064	S1065	PRO	PRO	ALA	SER	PRO	SER	PRO	SER	VAL	SER	SER	THR	THR	GLN	SER	SER	THR	PHE	SER	Q1087	A1088	P1089	D1090	K1091	K1092	V1093	T1094	S1095	M1096	F1097	E1098	S1100	G1101	P1102	F1103	R1104	Q1105	Q1106	H1107	F1108	L1109	A1110	G1111	L1112				
K985	D986	V987	E988	E991	H992	L993	N994	F1000	L1001	S1002	D1003	L1004	L1005	S1006	L1007	V1008	D1009	R1010	G1011	F1012	V1013	F1014	S1015	L1016	V1017	R1018	A1019	H1020	Y1021	Q1022	Q1023	V1024	A1025	T1026	R1027	L1028	Q1029	S1030	S1031	P1034	L1037	L1038	T1039	L1040	R1041	M1042	E1043	F1044	T1045	R1046	I1047	L1048	S1050	C1049	H1051				
L914	Q915	W916	V917	V918	R924	I927	L928	Q929	H930	A931	W932	F933	F934	F935	Q936	L937	M938	V939	K940	S941	L944	L947	L952	D953	T954	P955	R956	R959	F960	P961	R963	F964	L965	D966	D967	I968	T969	A970	L971	L972	G973	S974	V975	G976	L977	E978	V979	L980	T981	R982	L983	H984							
L788	R789	P790	V791	I792	Q796	I797	V798	N799	L800	G801	R802	G803	A804	F805	E806	A807	M808	A809	H810	V811	V812	S813	L814	V815	H816	R817	S818	L819	E820	A821	A822	Q823	D824	A825	R826	G827	H828	C829	L832	Y835	V836	H837	Y838	A839	F840	R841	L842	P843	G844	T845	E846	P847	SER	LEU	PRO	ASP			
L650	E651	T652	P653	V654	G655	T657	W658	I659	P660	L661	G662	Q663	H664	G665	R666	L667	R668	T669	F672	G673	L674	S677	V678	S684	Y685	S686	V687	P690	D691	V692	A693	G696	W697	R698	W699	V700	D701	G702	H703	F706	S708	L711	T712	A713	T714	S715	S716	V717	H718	P719									
Y723	L724	W725	K726	V727	F728	T729	L730	V731	H732	V733	L734	E735	E736	G737	F741	M742	L743	SER	K744	D745	T746	V747	L748	S749	E750	G751	N752	Y753	E754	Q755	E756	L757	R758	A759	S760	L761	A762	A763	L764	A767	E770	F771	L772	V773	S776	V779	L780	D781	K782	L783	V784	S785	L786	V787					



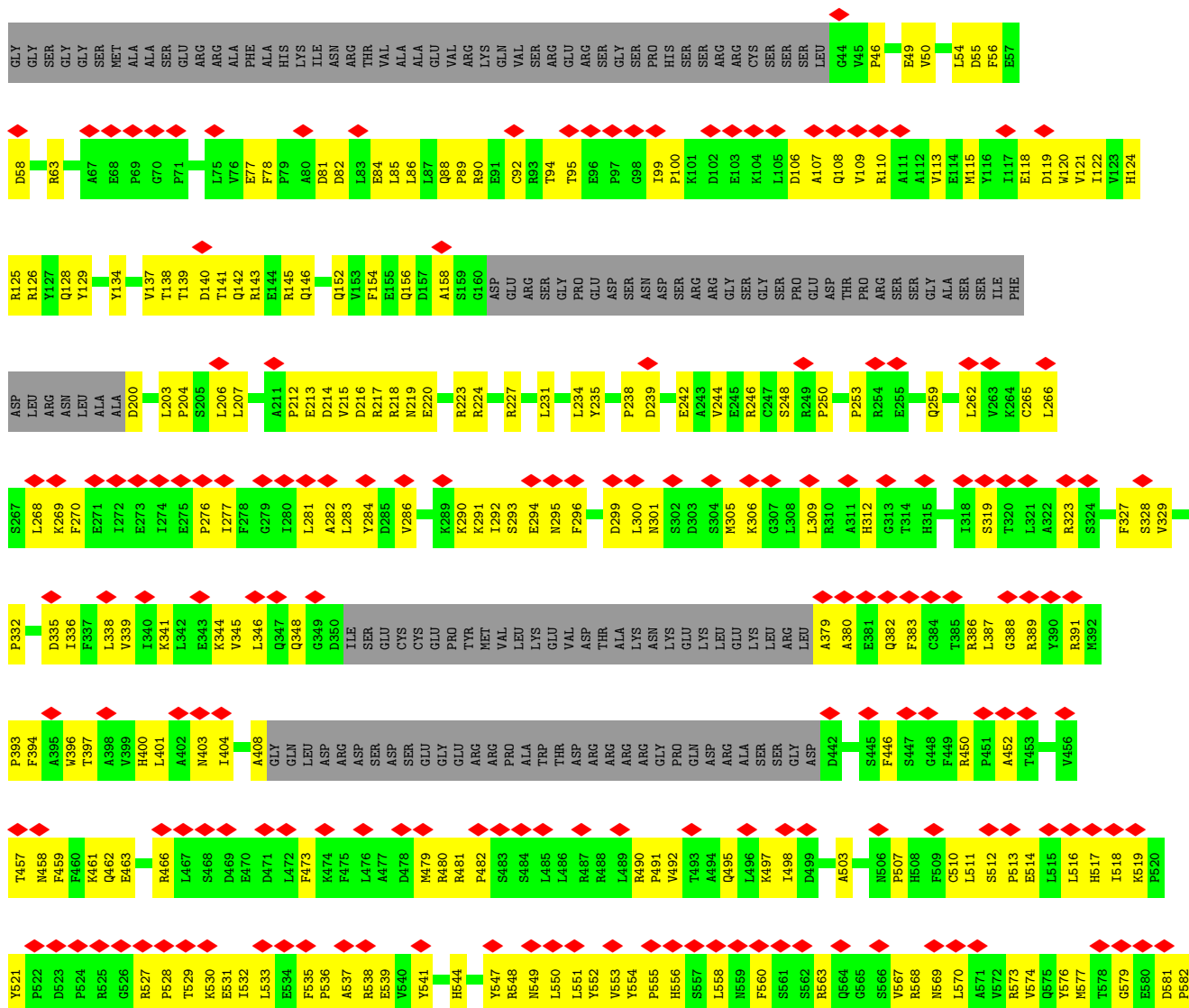
• Molecule 1: Dedicator of cytokinesis protein 6



G962	R963	F964	L965	D966	D967	L968	T969	A970	L971	V972	G973	S974	V975	G976	L977	E978	V979	L980	T981	R982	V983	L984	K985	D986	N984	A998	D1003	L1004	L1005	S1006	L1007	V1008	D1009	R1010	G1011	F1012	V1013	F1014	S1015	L1016	V1017	R1018	A1019	H1020	Y1021	K1022	Q1023	V1024	A1025	T1026	R1027	L1028	Q1029	S1030	S1031	
LEU	ALA	VAL	ALA	PRO	GLY	SER	VAL	D896	D897	E898	V899	S900	R901	L902	L903	A904	S905	K906	L907	L908	H909	E910	E911	A912	A913	Q915	W916	V917	R924	E925	A926	I927	L928	Q929	H930	A931	W932	F933	M938	M942	A943	V1017	L944	L947	R951	L952	D953	T954	P955	R956	R959	F960	P961			
D824	D825	H828	L832	Y835	V836	H837	V838	A839	L842	P843	G844	T845	L846	R847	SER	LEU	PRO	ASP	GLY	ALA	PRO	PRO	VAL	VAL	GLN	ALA	ALA	THR	LEU	ALA	ARG	GLY	SER	GLY	ARG	PRO	ALA	SER	LEU	TYR	ALA	M808	A809	H810	W811	W812	S813	H816	R817	A821						
L742	L743	T746	V747	L748	S749	E750	V753	E754	Q755	E756	L757	R758	L761	A762	A763	L764	R765	V773	S776	H777	L780	D781	L782	L783	V784	R785	L786	V787	L788	R789	P790	F791	I792	Q796	L800	A804	F805	E806	A807	M808	A809	H810	W811	W812	S813	H816	R817	A821								
L674	S677	F683	S684	V685	S686	V687	L688	T689	P690	A693	L694	P695	G696	H697	A763	L764	R765	V773	S776	H777	L780	D781	L782	L783	V784	R785	L786	V787	L788	R789	P790	F791	I792	Q796	L800	A804	F805	E806	A807	M808	A809	H810	W811	W812	S813	H816	R817	A821								
T604	F605	V606	V607	H608	N610	K611	S612	P613	E614	F615	V616	E617	S618	F619	K620	L621	H622	S623	L624	A625	T628	E629	H630	H631	H632	L633	L634	T636	F637	V638	H639	V640	C642	Q643	G647	T648	A649	L650	E651	G655	F656	T657	W658	T659	P660	L661	L662	Q663	R666	L667	R668					
F535	F536	A537	R538	E539	H544	Y547	R548	N549	L550	L551	T552	V553	Y554	P555	H556	S557	L558	N559	F560	S561	S562	R563	Q564	S565	L566	V567	R568	N569	A571	L570	V572	R573	V574	Q575	V576	N577	T578	C579	L511	S512	P513	E514	L515	L516	H517	L518	R519	P520	P524	R525	T529	X530	E531	L532	L533	E534
Q462	E463	A464	E465	R466	L472	F473	K474	F475	L476	A477	D478	R481	S483	S484	L485	R488	A494	Q495	L496	K497	L498	D499	T500	S501	F502	A503	P504	TRP	VAL	LEU	ASP	ARG	ARG	GLY	PRO	GLN	ASP	ASN	LYS	GLY	LEU	LEU	A379	A380	F383	C384	T385									
R386	L387	G388	R389	Y390	R391	M392	P393	F394	A395	V396	H400	L401	A402	N403	A408	GLY	GLN	LEU	ASP	ARG	ASP	SER	ASP	SER	GLY	GLY	GLY	PRO	ALA	THR	ASP	ARG	ARG	ARG	GLY	PRO	GLN	ASP	ASN	LYS	GLY	LEU	LEU	A379	A380	F383	C384	T385								
E245	R246	P250	E255	Q259	R260	I261	L262	V263	K264	C265	K269	F270	E271	I272	E273	I274	E275	P276	I277	E278	G279	I280	L281	A282	L283	Y284	D285	V286	R287	E288	R289	K290	K291	I292	S293	E294	N295	F296	Y297	F298	D299	L300	N301	ASP	M305	K306	G307	H312	H315	P316	A317	I318				
ARG	SER	GLY	ALA	SER	SER	ILE	SER	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L207	E208	R209	A210	P211	P212	E213	D214	V215	D216	R217	R218	N219	E220	T221	L222	R223	R224	Q225	P228	P229	A230	L231	L232	T233	L234	Y235	P236	A237	P238	D239	E240	D241	E242	A243	V244

G1795	D1796	T1797	V1798	V1799	I1800	I1801	I1802	K1803	D1804	S1805	N1806	P1807	V1808	D1809	S1810	S1811	X1812	L1813	D1814	S1815	Q1816	L1817	A1818	I1819	I1820	Q1821	I1822	I1823	Y1824	V1825	V1826	P1827	Y1828	V1770	Y1771	K1772	E1773	P1774	S1775	I1776	T1777	K1778	L1779	A1780	E1781	I1782	S1783	H1784	R1785	L1786	G1846	L1847	R1848	T1849	F1850	L1851	F1852	C1853	T1854	
T1735	K1736	I1737	M1738	H1739	Q1740	S1741	S1742	G1743	W1744	E1745	R1746	V1747	F1748	G1749	T1750	Y1751	F1752	R1753	V1754	G1755	F1756	Y1757	G1758	A1759	H1760	F1761	G1762	D1763	L1764	D1765	E1766	Q1767	E1768	F1769	V1770	Y1771	K1772	E1773	P1774	S1775	I1776	T1777	K1778	L1779	A1780	E1781	I1782	S1783	H1784	R1785	L1786	G1846	L1847	R1848	T1849	F1850	L1851	F1852	C1853	T1854
F1672	C1673	S1674	G1675	H1676	H1677	F1678	T1679	E1680	L1681	G1682	L1683	V1684	G1685	G1686	L1687	E1688	Q1689	A1690	A1691	G1692	Y1693	F1694	T1695	M1696	L1699	Y1700	E1701	A1702	N1703	N1704	E1705	V1706	N1709	L1710	I1711	P1712	I1713	L1714	H1717	R1718	D1719	Y1720	K1721	K1722	L1723	A1724	A1725	V1726	H1727	G1728	K1729	L1730	Q1731	E1732	Y1790	T1791	E1792	R1793	F1794	
A1608	E1609	L1610	G1611	M1612	H1613	A1614	E1615	A1616	A1617	M1620	V1621	H1622	A1623	A1624	A1625	V1627	Y1630	L1631	A1632	L1633	L1634	E1635	D1636	H1637	R1638	H1639	L1640	P1641	V1642	G1643	V1644	V1645	S1646	Q1647	Q1648	N1649	I1650	M1653	V1654	L1655	E1656	A1659	I1660	S1661	D1662	D1663	I1664	L1665	S1666	P1667	D1668	E1669	G1605	K1606	H1607					
F1547	A1548	E1549	Q1550	V1551	Q1552	D1553	M1554	M1555	F1556	N1557	H1558	H1559	M1560	I1561	L1562	T1563	D1564	T1565	V1566	K1567	M1568	K1569	E1570	Q1572	E1573	D1574	P1575	E1576	M1577	L1578	I1579	D1580	L1581	M1582	Y1583	R1584	I1585	G1588	Y1589	Q1590	G1591	S1592	P1593	D1594	L1595	R1596	L1597	T1598	V1599	L1600	Q1601	M1602	M1603	A1604	G1605	K1606	H1607			
L1487	L1488	M1489	R1490	Q1491	N1492	F1493	E1494	F1495	G1496	H1497	N1498	F1499	A1500	R1501	V1502	K1503	M1504	Q1505	V1506	T1507	M1508	S1509	L1510	S1511	S1512	L1513	G1514	T1516	L1517	Q1518	M1519	F1520	E1522	E1523	H1524	L1525	R1526	R1527	S1528	L1529	T1531	I1532	L1533	T1534	Y1535	A1536	E1537	E1538	D1539	M1540	G1541	L1542	R1543	D1544	T1546					
L1424	G1425	S1426	A1427	Q1428	S1429	A1430	L1431	F1432	L1433	Q1434	H1435	G1436	L1437	A1438	T1439	Q1440	R1441	A1442	L1443	V1444	S1445	F1447	L1450	L1451	F1452	D1455	E1457	L1458	C1459	A1460	D1461	L1464	R1465	L1466	R1468	H1469	G1470	G1471	S1472	R1473	L1474	S1475	T1476	I1477	R1478	T1479	H1480	A1481	S1482	A1483	S1484	Y1486								
L1487	L1488	M1489	R1490	Q1491	N1492	F1493	E1494	F1495	G1496	H1497	N1498	F1499	A1500	R1501	V1502	K1503	M1504	Q1505	V1506	T1507	M1508	S1509	L1510	S1511	S1512	L1513	G1514	T1516	L1517	Q1518	M1519	F1520	E1522	E1523	H1524	L1525	R1526	R1527	S1528	L1529	T1531	I1532	L1533	T1534	Y1535	A1536	E1537	E1538	D1539	M1540	G1541	L1542	R1543	D1544	T1546					
F1547	A1548	E1549	Q1550	V1551	Q1552	D1553	M1554	M1555	F1556	N1557	H1558	H1559	M1560	I1561	L1562	T1563	D1564	T1565	V1566	K1567	M1568	K1569	E1570	Q1572	E1573	D1574	P1575	E1576	M1577	L1578	I1579	D1580	L1581	M1582	Y1583	R1584	I1585	G1588	Y1589	Q1590	G1591	S1592	P1593	D1594	L1595	R1596	L1597	T1598	V1599	L1600	Q1601	M1602	M1603	A1604	G1605	K1606	H1607			
A1608	E1609	L1610	G1611	M1612	H1613	A1614	E1615	A1616	A1617	M1620	V1621	H1622	A1623	A1624	A1625	V1627	Y1630	L1631	A1632	L1633	L1634	E1635	D1636	H1637	R1638	H1639	L1640	P1641	V1642	G1643	V1644	V1645	S1646	Q1647	Q1648	N1649	I1650	M1653	V1654	L1655	E1656	A1659	I1660	S1661	D1662	D1663	I1664	L1665	S1666	P1667	D1668	E1669	G1605	K1606	H1607					
F1672	C1673	S1674	G1675	H1676	H1677	F1678	T1679	E1680	L1681	G1682	L1683	V1684	G1685	G1686	L1687	E1688	Q1689	A1690	A1691	G1692	Y1693	F1694	T1695	M1696	L1699	Y1700	E1701	A1702	N1703	N1704	E1705	V1706	N1709	L1710	I1711	P1712	I1713	L1714	H1717	R1718	D1719	Y1720	K1721	K1722	L1723	A1724	A1725	V1726	H1727	G1728	K1729	L1730	Q1731	E1732	Y1790	T1791	E1792	R1793	F1794	
T1735	K1736	I1737	M1738	H1739	Q1740	S1741	S1742	G1743	W1744	E1745	R1746	V1747	F1748	G1749	T1750	Y1751	F1752	R1753	V1754	G1755	F1756	Y1757	G1758	A1759	H1760	F1761	G1762	D1763	L1764	D1765	E1766	Q1767	E1768	F1769	V1770	Y1771	K1772	E1773	P1774	S1775	I1776	T1777	K1778	L1779	A1780	E1781	I1782	S1783	H1784	R1785	L1786	G1846	L1847	R1848	T1849	F1850	L1851	F1852	C1853	T1854

- Molecule 1: Dedicator of cytokinesis protein 6







4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	102384	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50.1	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	64000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.075	Depositor
Minimum map value	-0.038	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.003	Depositor
Recommended contour level	0.008	Depositor
Map size (Å)	452.2, 452.2, 452.2	wwPDB
Map dimensions	340, 340, 340	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.33, 1.33, 1.33	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.29	0/13741	0.61	5/18646 (0.0%)
1	B	0.29	0/13741	0.58	2/18646 (0.0%)
1	C	0.30	0/13794	0.61	3/18718 (0.0%)
1	D	0.29	0/13794	0.59	0/18718
1	E	0.23	0/13794	0.55	0/18718
1	F	0.21	0/13741	0.56	4/18646 (0.0%)
1	G	0.21	0/13741	0.53	0/18646
1	H	0.23	0/13794	0.55	2/18718 (0.0%)
All	All	0.26	0/110140	0.57	16/149456 (0.0%)

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	C	0	1
1	D	0	1
1	H	0	1
All	All	0	3

There are no bond length outliers.

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	489	LEU	CA-C-N	16.87	144.44	120.49
1	F	489	LEU	C-N-CA	16.87	144.44	120.49
1	A	489	LEU	CA-C-N	13.31	142.59	121.83
1	A	489	LEU	C-N-CA	13.31	142.59	121.83
1	C	1914	ARG	CB-CG-CD	7.93	129.53	111.30
1	F	706	VAL	N-CA-C	-7.36	106.13	113.20
1	B	148	GLY	CA-C-N	-6.77	110.15	123.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	148	GLY	C-N-CA	-6.77	110.15	123.56
1	A	148	GLY	CA-C-N	-6.53	110.64	123.56
1	A	148	GLY	C-N-CA	-6.53	110.64	123.56
1	F	1102	PRO	CA-N-CD	-6.26	103.24	112.00
1	C	1914	ARG	N-CA-CB	5.52	118.84	110.28
1	C	1603	MET	CG-SD-CE	5.42	112.82	100.90
1	A	697	MET	CG-SD-CE	5.40	112.78	100.90
1	H	1825	VAL	CA-C-N	-5.13	106.03	121.98
1	H	1825	VAL	C-N-CA	-5.13	106.03	121.98

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	1277	THR	Peptide
1	D	1277	THR	Peptide
1	H	1516	THR	Peptide

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	13425	0	13390	1202	0
1	B	13425	0	13390	1220	0
1	C	13477	0	13448	1206	0
1	D	13477	0	13448	1173	0
1	E	13477	0	13448	996	0
1	F	13425	0	13390	845	0
1	G	13425	0	13390	835	0
1	H	13477	0	13448	983	0
All	All	107608	0	107352	8321	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 39.

All (8321) 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:G:674:LEU:O	1:G:707:PHE:HB3	1.37	1.20
1:F:674:LEU:O	1:F:707:PHE:HB3	1.47	1.15
1:B:674:LEU:O	1:B:707:PHE:HB3	1.48	1.12
1:A:674:LEU:O	1:A:707:PHE:HB3	1.51	1.10
1:A:772:LEU:O	1:A:776:SER:HB3	1.50	1.10
1:B:772:LEU:O	1:B:776:SER:HB3	1.51	1.06
1:E:1711:ILE:O	1:E:1715:GLU:HB2	1.54	1.05
1:E:1753:ARG:HH12	1:E:1821:GLN:HG3	1.18	1.03
1:C:1911:LYS:HB3	1:C:1914:ARG:HH11	1.20	1.03
1:C:1723:LEU:O	1:C:1727:HIS:HB2	1.58	1.02
1:A:784:VAL:HG13	1:A:808:MET:HE1	1.44	1.00
1:D:1099:LEU:HD11	1:D:1104:ARG:HH22	1.27	0.99
1:H:1711:ILE:O	1:H:1715:GLU:HB2	1.64	0.98
1:E:1727:HIS:O	1:E:1731:GLN:NE2	1.97	0.97
1:D:674:LEU:O	1:D:707:PHE:HB3	1.64	0.97
1:C:1753:ARG:O	1:C:1822:ILE:HA	1.65	0.97
1:A:1761:PHE:HB3	1:A:1764:LEU:HB2	1.46	0.96
1:D:1723:LEU:O	1:D:1727:HIS:HB2	1.65	0.95
1:C:1507:THR:HA	1:C:1558:LEU:HD11	1.49	0.95
1:C:674:LEU:O	1:C:707:PHE:HB3	1.68	0.94
1:B:632:HIS:HE2	1:B:685:TYR:HH	1.06	0.94
1:A:1529:LEU:HD21	1:A:1562:LEU:HD11	1.49	0.94
1:D:1753:ARG:O	1:D:1822:ILE:HA	1.68	0.94
1:A:478:ASP:HA	1:A:480:ARG:HH11	1.32	0.93
1:D:1770:VAL:O	1:D:1888:ARG:HA	1.70	0.92
1:C:781:ASP:HB3	1:C:785:ARG:HH21	1.34	0.92
1:A:927:ILE:O	1:A:931:ALA:HB2	1.70	0.91
1:B:141:THR:HB	1:B:145:ARG:HH12	1.36	0.91
1:F:108:GLN:HG3	1:F:732:HIS:HD2	1.35	0.91
1:B:1529:LEU:HD21	1:B:1562:LEU:HD11	1.52	0.90
1:E:927:ILE:O	1:E:931:ALA:HB2	1.72	0.90
1:H:466:ARG:HB3	1:H:614:GLU:HB3	1.54	0.90
1:C:1425:GLY:HA3	1:C:1465:ARG:HH11	1.37	0.89
1:A:141:THR:HB	1:A:145:ARG:HH12	1.36	0.89
1:D:924:ARG:HA	1:D:927:ILE:HD12	1.53	0.89
1:A:632:HIS:HE2	1:A:685:TYR:HH	1.15	0.89
1:B:1761:PHE:HB3	1:B:1764:LEU:HB2	1.53	0.89
1:A:223:ARG:HH11	1:A:227:ARG:HH22	1.21	0.88
1:E:1856:PHE:HE1	1:E:1872:ARG:HB2	1.37	0.88
1:H:1727:HIS:O	1:H:1731:GLN:NE2	2.05	0.88
1:A:235:TYR:HH	1:A:1252:THR:HG1	1.09	0.88
1:E:758:ARG:HH22	1:G:1022:LYS:HB2	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1168:LEU:HD21	1:C:1257:VAL:HA	1.56	0.88
1:H:1856:PHE:HE1	1:H:1872:ARG:HB2	1.38	0.88
1:A:1855:PRO:HA	1:A:1871:LYS:HA	1.55	0.88
1:B:541:TYR:HE2	1:B:770:GLU:HG3	1.38	0.87
1:F:916:TRP:HZ2	1:F:934:PHE:HB3	1.39	0.87
1:A:1034:PRO:HA	1:A:1037:LEU:HD13	1.57	0.87
1:B:1711:ILE:HG13	1:B:1712:PRO:HD3	1.54	0.87
1:A:125:ARG:HB2	1:A:128:GLN:HB2	1.57	0.87
1:C:1503:LYS:HD2	1:C:1554:LEU:HD13	1.55	0.87
1:D:1607:HIS:HB2	1:D:1616:ALA:HB2	1.54	0.87
1:B:461:LYS:HG2	1:B:492:VAL:HG21	1.57	0.87
1:H:927:ILE:O	1:H:931:ALA:HB2	1.75	0.87
1:C:1754:VAL:HA	1:C:1821:GLN:O	1.75	0.87
1:B:344:LYS:HG2	1:B:394:PHE:HB2	1.56	0.86
1:B:836:VAL:O	1:B:940:LYS:NZ	2.09	0.86
1:E:1876:LEU:HD12	1:E:1891:VAL:HG11	1.57	0.86
1:B:125:ARG:NH2	1:B:1003:ASP:OD1	2.09	0.86
1:C:1607:HIS:HB2	1:C:1616:ALA:HB2	1.57	0.86
1:B:1253:LEU:HD22	1:B:1254:LEU:HD22	1.58	0.86
1:B:1272:TRP:O	1:B:1276:LEU:HB2	1.76	0.86
1:H:1091:PRO:HA	1:H:1094:THR:HG22	1.57	0.85
1:C:1121:LEU:HD13	1:C:1132:HIS:HD2	1.40	0.85
1:H:1916:LEU:HD23	1:H:1980:LYS:HB3	1.58	0.85
1:C:340:ILE:H	1:C:397:THR:HG22	1.42	0.85
1:C:1582:MET:HE3	1:C:1603:MET:HE3	1.59	0.85
1:C:1731:GLN:OE1	1:D:1727:HIS:ND1	2.09	0.85
1:G:388:GLY:O	1:G:391:ARG:NH1	2.09	0.85
1:G:1423:SER:O	1:G:1428:GLN:NE2	2.10	0.85
1:A:1253:LEU:HD22	1:A:1254:LEU:HD22	1.59	0.85
1:D:723:TYR:HA	1:D:726:LYS:HD2	1.56	0.84
1:E:1869:GLN:NE2	1:E:1870:HIS:O	2.10	0.84
1:F:699:TRP:HB3	1:F:703:HIS:H	1.41	0.84
1:E:1091:PRO:HA	1:E:1094:THR:HG22	1.59	0.84
1:A:573:ARG:HA	1:A:602:ALA:O	1.77	0.84
1:C:1090:ASP:HB3	1:C:1093:VAL:HG12	1.56	0.84
1:B:1104:ARG:O	1:B:1108:PHE:HA	1.77	0.84
1:E:1753:ARG:NH1	1:E:1821:GLN:HG3	1.92	0.84
1:D:1090:ASP:HB3	1:D:1093:VAL:HG12	1.57	0.84
1:F:106:ASP:OD2	1:F:732:HIS:NE2	2.11	0.84
1:D:663:GLN:OE1	1:D:666:ARG:NH2	2.10	0.84
1:H:231:LEU:HB3	1:H:1259:TRP:HD1	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1809:ASP:OD1	1:C:1812:LYS:NZ	2.11	0.84
1:D:916:TRP:O	1:D:924:ARG:NH1	2.11	0.84
1:C:143:ARG:HE	1:C:147:LYS:HZ3	1.22	0.83
1:D:266:LEU:HB2	1:D:497:LYS:HB3	1.59	0.83
1:A:284:TYR:HA	1:A:292:ILE:HG12	1.60	0.83
1:A:632:HIS:NE2	1:A:685:TYR:OH	2.10	0.83
1:B:1607:HIS:HB2	1:B:1616:ALA:HB2	1.58	0.83
1:E:1128:ALA:HA	1:E:1131:LEU:HD13	1.59	0.83
1:D:549:ASN:HD21	1:D:623:LEU:HB3	1.44	0.83
1:B:927:ILE:O	1:B:931:ALA:HB2	1.76	0.83
1:E:666:ARG:HH21	1:E:667:LEU:HB2	1.43	0.83
1:C:1371:LYS:O	1:C:1375:GLU:HB2	1.79	0.83
1:B:1034:PRO:HA	1:B:1037:LEU:HD13	1.59	0.83
1:B:1019:ALA:O	1:B:1023:GLN:NE2	2.12	0.83
1:A:231:LEU:HB2	1:A:1262:LYS:HZ3	1.43	0.83
1:A:1607:HIS:HB2	1:A:1616:ALA:HB2	1.58	0.82
1:D:1102:PRO:O	1:D:1106:GLN:NE2	2.12	0.82
1:G:1593:PRO:HA	1:G:1596:ARG:HE	1.44	0.82
1:A:677:SER:OG	1:A:679:ASP:OD2	1.97	0.82
1:C:1705:GLU:HA	1:C:1708:LYS:HD3	1.58	0.82
1:F:1423:SER:O	1:F:1428:GLN:NE2	2.12	0.82
1:D:548:ARG:HH11	1:D:550:LEU:HG	1.42	0.82
1:F:1018:ARG:HH11	1:F:1022:LYS:HZ1	1.28	0.82
1:B:553:VAL:HG22	1:B:711:LEU:HD13	1.60	0.82
1:D:1846:GLY:O	1:D:1848:ARG:NH1	2.12	0.82
1:E:1577:MET:SD	1:E:1888:ARG:NH1	2.52	0.82
1:D:143:ARG:HE	1:D:147:LYS:HZ3	1.24	0.82
1:F:1761:PHE:HB3	1:F:1764:LEU:HB2	1.60	0.82
1:C:723:TYR:HA	1:C:726:LYS:HD2	1.62	0.82
1:C:1727:HIS:ND1	1:D:1731:GLN:OE1	2.13	0.82
1:C:1848:ARG:O	1:C:1877:SER:HA	1.79	0.82
1:D:1168:LEU:HD21	1:D:1257:VAL:HA	1.61	0.82
1:B:592:LYS:HD3	1:B:620:LYS:HZ1	1.42	0.81
1:D:734:LEU:HB3	1:D:791:PRO:HG3	1.61	0.81
1:E:1423:SER:O	1:E:1428:GLN:NE2	2.13	0.81
1:C:574:VAL:HB	1:C:602:ALA:HB3	1.62	0.81
1:D:1130:LEU:HD13	1:D:1133:LYS:HD3	1.60	0.81
1:B:663:GLN:HB2	1:B:668:ARG:HD2	1.60	0.81
1:E:1848:ARG:NH1	1:E:1878:THR:OG1	2.13	0.81
1:A:565:GLY:O	1:A:568:ARG:NH1	2.13	0.81
1:D:1754:VAL:HA	1:D:1821:GLN:O	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1487:LEU:O	1:C:1491:GLN:NE2	2.13	0.81
1:A:826:ARG:HB3	1:A:828:HIS:HD2	1.45	0.81
1:C:1716:ALA:O	1:C:1718:ARG:NH1	2.14	0.81
1:C:1892:CYS:HA	1:E:1893:HIS:CE1	2.15	0.81
1:D:1487:LEU:O	1:D:1491:GLN:NE2	2.14	0.81
1:C:1851:LEU:HD11	1:C:1873:LYS:HB2	1.63	0.81
1:A:86:LEU:HB2	1:A:122:ILE:HB	1.63	0.81
1:C:109:VAL:HG12	1:C:717:VAL:HG21	1.63	0.81
1:B:214:ASP:OD1	1:B:217:ARG:NH2	2.13	0.81
1:E:1574:ASP:O	1:E:1578:LEU:HB2	1.81	0.81
1:D:927:ILE:O	1:D:931:ALA:HB2	1.80	0.81
1:F:1620:MET:HB3	1:F:1689:GLN:HE22	1.44	0.81
1:A:951:ARG:HE	1:A:954:THR:HB	1.46	0.80
1:A:1128:ALA:O	1:A:1132:HIS:ND1	2.14	0.80
1:C:141:THR:HB	1:C:145:ARG:HH12	1.44	0.80
1:A:1117:LEU:HD23	1:A:1135:ALA:HB1	1.62	0.80
1:E:911:GLU:O	1:E:915:GLN:NE2	2.15	0.80
1:A:587:PRO:HB2	1:A:598:PHE:HB3	1.64	0.80
1:C:663:GLN:N	1:C:666:ARG:O	2.15	0.80
1:B:1128:ALA:O	1:B:1132:HIS:ND1	2.14	0.80
1:F:106:ASP:OD2	1:F:107:ALA:N	2.13	0.80
1:E:242:GLU:O	1:E:1046:ARG:NH1	2.14	0.80
1:A:1501:ARG:NH2	1:A:1670:GLU:O	2.14	0.80
1:B:1501:ARG:NH2	1:B:1670:GLU:O	2.15	0.80
1:A:1285:LEU:HD13	1:A:1288:LEU:HD12	1.64	0.80
1:C:1911:LYS:O	1:C:1914:ARG:HD3	1.82	0.80
1:C:285:ASP:HA	1:C:336:ILE:HA	1.64	0.80
1:F:312:HIS:HB3	1:F:389:ARG:HB2	1.64	0.80
1:G:1597:LEU:HD23	1:G:1601:GLN:HE22	1.45	0.80
1:B:235:TYR:OH	1:B:1251:ARG:NE	2.14	0.80
1:H:1038:LEU:HD23	1:H:1041:ARG:HG3	1.63	0.80
1:A:919:SER:O	1:A:924:ARG:NH1	2.14	0.79
1:D:912:LEU:HD23	1:D:938:MET:HB3	1.63	0.79
1:D:285:ASP:HA	1:D:336:ILE:HA	1.64	0.79
1:B:216:ASP:OD1	1:B:1401:GLN:NE2	2.15	0.79
1:G:231:LEU:HD22	1:G:1262:LYS:HD3	1.64	0.79
1:H:579:GLY:HA2	1:H:630:ASN:HB3	1.64	0.79
1:A:131:SER:O	1:A:135:SER:HB3	1.83	0.79
1:A:235:TYR:OH	1:A:1251:ARG:NE	2.14	0.79
1:C:1720:TYR:HH	1:D:1741:SER:HG	1.29	0.79
1:C:1770:VAL:O	1:C:1888:ARG:HA	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1855:PRO:HA	1:B:1871:LYS:HA	1.64	0.79
1:F:731:VAL:HG21	1:F:782:LYS:HG2	1.64	0.79
1:A:1021:TYR:HA	1:A:1024:VAL:HG12	1.63	0.79
1:D:1844:ASN:HA	1:D:1847:LEU:HD11	1.63	0.79
1:B:1508:MET:HE1	1:B:1594:ASP:HB3	1.64	0.79
1:H:911:GLU:O	1:H:915:GLN:NE2	2.14	0.79
1:E:1297:TYR:HE1	1:E:1381:GLU:HG3	1.46	0.79
1:H:212:PRO:HB3	1:H:1446:LYS:HD2	1.64	0.79
1:D:141:THR:HB	1:D:145:ARG:HH12	1.46	0.79
1:H:242:GLU:O	1:H:1046:ARG:NH1	2.16	0.79
1:D:1114:LEU:HD23	1:D:1117:LEU:HD12	1.65	0.79
1:D:1716:ALA:O	1:D:1718:ARG:NH1	2.15	0.79
1:A:1476:THR:O	1:A:1480:HIS:ND1	2.15	0.78
1:B:206:LEU:O	1:B:209:ARG:NH2	2.16	0.78
1:H:979:VAL:HB	1:H:993:LEU:HD23	1.63	0.78
1:C:1939:GLY:HA3	1:C:2006:ASN:HD21	1.46	0.78
1:E:916:TRP:O	1:E:924:ARG:NH1	2.15	0.78
1:E:1957:ILE:HG23	1:E:2022:LEU:HD13	1.65	0.78
1:H:915:GLN:O	1:H:919:SER:HB2	1.81	0.78
1:A:585:ALA:O	1:A:600:ARG:NH1	2.16	0.78
1:D:1909:MET:HE1	1:D:1946:PRO:HA	1.65	0.78
1:B:284:TYR:HA	1:B:292:ILE:HG12	1.65	0.78
1:B:664:HIS:HB2	1:B:744:LYS:HD3	1.64	0.78
1:G:142:GLN:O	1:G:146:GLN:NE2	2.16	0.78
1:G:1574:ASP:O	1:G:1578:LEU:HB2	1.84	0.78
1:C:105:LEU:HB2	1:C:110:ARG:HG3	1.66	0.78
1:C:1285:LEU:HD13	1:C:1288:LEU:HD12	1.64	0.78
1:D:1285:LEU:HD13	1:D:1288:LEU:HD12	1.65	0.78
1:B:986:ASP:OD1	1:B:987:VAL:N	2.16	0.78
1:F:1597:LEU:HD23	1:F:1601:GLN:HE22	1.48	0.78
1:C:677:SER:OG	1:C:679:ASP:OD2	2.02	0.78
1:E:1451:LEU:HB3	1:E:1459:CYS:HB2	1.64	0.78
1:G:1600:LEU:HA	1:G:1603:MET:HE2	1.66	0.78
1:B:743:LEU:HG	1:B:748:LEU:HD11	1.66	0.78
1:G:577:MET:O	1:G:631:HIS:HA	1.82	0.78
1:H:1879:ASP:HB3	1:H:1889:ILE:HD11	1.65	0.78
1:B:677:SER:OG	1:B:679:ASP:OD2	2.01	0.78
1:H:1451:LEU:HB3	1:H:1459:CYS:HB2	1.66	0.78
1:H:1487:LEU:O	1:H:1491:GLN:NE2	2.17	0.78
1:A:53:PRO:HG3	1:A:1018:ARG:HE	1.47	0.78
1:E:1989:LYS:HB2	1:E:2000:HIS:HE1	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1830:ASP:O	1:H:1834:LEU:HB2	1.83	0.78
1:E:1778:LYS:N	1:E:1781:GLU:OE2	2.17	0.78
1:F:231:LEU:HD22	1:F:1262:LYS:HD3	1.66	0.78
1:D:1687:LEU:HB3	1:D:1710:LEU:HD21	1.66	0.78
1:E:466:ARG:HB3	1:E:614:GLU:HB2	1.65	0.78
1:F:1619:CYS:HB2	1:F:1620:MET:HE2	1.64	0.78
1:G:108:GLN:HG3	1:G:732:HIS:HD2	1.47	0.78
1:A:286:VAL:HB	1:A:335:ASP:HB3	1.65	0.77
1:A:981:THR:O	1:A:984:HIS:NE2	2.17	0.77
1:A:1954:LEU:HB2	1:A:2017:LEU:HD22	1.67	0.77
1:D:579:GLY:HA2	1:D:630:ASN:HB3	1.65	0.77
1:D:677:SER:OG	1:D:679:ASP:OD2	2.00	0.77
1:H:282:ALA:HB3	1:H:339:VAL:HB	1.65	0.77
1:H:2008:CYS:SG	1:H:2011:ARG:NH2	2.58	0.77
1:A:348:GLN:NE2	1:A:642:CYS:O	2.14	0.77
1:C:104:LYS:HA	1:C:110:ARG:HH21	1.48	0.77
1:D:105:LEU:HG	1:D:110:ARG:HH21	1.49	0.77
1:D:1514:VAL:HG21	1:D:1565:THR:HG21	1.66	0.77
1:B:274:ILE:HG22	1:B:275:GLU:HG2	1.66	0.77
1:C:924:ARG:HA	1:C:927:ILE:HD12	1.65	0.77
1:C:1168:LEU:HD11	1:C:1257:VAL:HG22	1.67	0.77
1:B:674:LEU:HD22	1:B:690:PRO:HG2	1.67	0.77
1:B:1099:LEU:HD22	1:B:1114:LEU:HB2	1.64	0.77
1:B:1503:LYS:HD2	1:B:1554:LEU:HD13	1.67	0.77
1:F:1521:SER:HG	1:F:1524:HIS:HD1	1.31	0.77
1:C:699:TRP:HB2	1:C:703:HIS:H	1.50	0.77
1:G:1008:VAL:HG22	1:G:1009:ASP:H	1.49	0.77
1:H:1021:TYR:HD2	1:H:1041:ARG:HH12	1.30	0.77
1:C:1130:LEU:HD13	1:C:1133:LYS:HD3	1.66	0.77
1:D:836:VAL:HA	1:D:840:PHE:HB2	1.67	0.77
1:E:282:ALA:HB3	1:E:339:VAL:HB	1.66	0.77
1:E:1417:LEU:HD22	1:E:1450:LEU:HD22	1.66	0.77
1:G:568:ARG:HB2	1:G:611:LYS:HA	1.67	0.77
1:D:340:ILE:H	1:D:397:THR:HG22	1.50	0.77
1:B:663:GLN:HB3	1:B:666:ARG:HG2	1.67	0.77
1:H:806:GLU:HG2	1:H:923:VAL:HG21	1.67	0.77
1:C:1720:TYR:OH	1:D:1741:SER:OG	2.00	0.77
1:B:1410:GLU:HG2	1:B:1411:SER:H	1.49	0.77
1:C:1478:ARG:HD3	1:C:1524:HIS:HB3	1.65	0.77
1:C:1604:ALA:HB2	1:C:1620:MET:HE3	1.67	0.77
1:C:1791:THR:O	1:C:1795:GLY:N	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1693:TYR:HA	1:E:1696:MET:HG3	1.66	0.77
1:B:1431:LEU:O	1:B:1435:HIS:ND1	2.18	0.77
1:E:1122:GLU:HG3	1:E:1124:GLU:H	1.49	0.77
1:B:1604:ALA:HB2	1:B:1620:MET:HE3	1.64	0.77
1:F:917:VAL:O	1:F:924:ARG:NH2	2.18	0.77
1:D:1121:LEU:HD13	1:D:1132:HIS:HD2	1.50	0.76
1:G:573:ARG:HA	1:G:602:ALA:O	1.86	0.76
1:G:1521:SER:HG	1:G:1524:HIS:HD1	1.26	0.76
1:D:1401:GLN:HA	1:D:1404:MET:HE1	1.66	0.76
1:F:1403:VAL:HG21	1:F:1412:VAL:HG11	1.68	0.76
1:A:781:ASP:OD2	1:A:785:ARG:NH2	2.19	0.76
1:A:1001:LEU:HA	1:A:1004:LEU:HD12	1.67	0.76
1:C:223:ARG:NH2	1:C:1397:GLU:OE1	2.18	0.76
1:B:1476:THR:O	1:B:1480:HIS:ND1	2.15	0.76
1:E:579:GLY:HA2	1:E:630:ASN:HB3	1.67	0.76
1:D:1176:LEU:HA	1:D:1179:LEU:HD13	1.68	0.76
1:D:1925:PRO:HG2	1:D:1991:LEU:HD21	1.67	0.76
1:B:222:LEU:HD13	1:B:1434:GLN:HE22	1.50	0.76
1:C:1800:GLU:HB3	1:C:1819:TYR:HA	1.67	0.76
1:D:1403:VAL:HG12	1:D:1409:ARG:HD3	1.65	0.76
1:B:1785:ARG:NH1	1:B:1785:ARG:O	2.18	0.76
1:G:302:SER:H	1:G:305:MET:HE2	1.49	0.76
1:G:1878:THR:HG22	1:G:1891:VAL:HG22	1.67	0.76
1:D:549:ASN:OD1	1:D:623:LEU:N	2.19	0.76
1:B:1798:VAL:O	1:B:1818:ALA:N	2.17	0.76
1:F:1768:GLU:HG2	1:F:1890:ARG:HH21	1.50	0.76
1:C:1476:THR:O	1:C:1480:HIS:ND1	2.15	0.76
1:B:131:SER:O	1:B:135:SER:HB3	1.86	0.76
1:F:1289:TYR:OH	1:F:1418:LYS:NZ	2.19	0.76
1:H:1656:GLU:OE2	1:H:1880:HIS:NE2	2.18	0.76
1:A:1423:SER:O	1:A:1428:GLN:NE2	2.19	0.76
1:C:1370:THR:OG1	1:C:1372:ASP:OD1	2.03	0.76
1:C:1869:GLN:NE2	1:C:1870:HIS:O	2.18	0.76
1:D:1503:LYS:HD2	1:D:1554:LEU:HD13	1.66	0.76
1:B:1423:SER:O	1:B:1428:GLN:NE2	2.19	0.76
1:E:789:ARG:NH2	1:E:844:GLY:O	2.19	0.76
1:A:743:LEU:HG	1:A:748:LEU:HD11	1.66	0.76
1:A:1931:GLN:HB3	1:A:1999:TYR:HE2	1.51	0.76
1:C:1401:GLN:HA	1:C:1404:MET:HE1	1.68	0.76
1:E:1828:TYR:HB2	1:E:1851:LEU:HB2	1.66	0.76
1:A:301:ASN:HB3	1:A:305:MET:HB2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:931:ALA:HA	1:A:934:PHE:HD2	1.51	0.75
1:A:1019:ALA:O	1:A:1023:GLN:NE2	2.19	0.75
1:D:83:LEU:HA	1:D:124:HIS:O	1.85	0.75
1:B:215:VAL:HB	1:B:1441:ARG:HH12	1.51	0.75
1:B:587:PRO:HB2	1:B:598:PHE:HB3	1.67	0.75
1:B:1110:ALA:HA	1:B:1113:LEU:HD13	1.66	0.75
1:E:266:LEU:HB2	1:E:497:LYS:HG3	1.68	0.75
1:F:574:VAL:HB	1:F:602:ALA:HB3	1.68	0.75
1:F:752:ASN:HA	1:F:755:GLN:HE22	1.50	0.75
1:F:563:ARG:HD2	1:F:700:VAL:HG13	1.67	0.75
1:F:785:ARG:HH22	1:F:843:PRO:HD2	1.50	0.75
1:G:927:ILE:O	1:G:931:ALA:HB2	1.85	0.75
1:C:977:LEU:HD11	1:B:802:ARG:HH12	1.51	0.75
1:C:1403:VAL:HG12	1:C:1409:ARG:HD3	1.66	0.75
1:D:1705:GLU:HA	1:D:1708:LYS:HD3	1.67	0.75
1:B:1243:CYS:SG	1:B:1244:ALA:N	2.58	0.75
1:G:85:LEU:HG	1:G:947:LEU:HD13	1.68	0.75
1:G:1104:ARG:NH1	1:G:1115:THR:OG1	2.20	0.75
1:A:730:LEU:HD23	1:A:757:LEU:HD23	1.69	0.75
1:C:85:LEU:HG	1:C:947:LEU:HD13	1.69	0.75
1:C:220:GLU:OE1	1:C:223:ARG:NH2	2.19	0.75
1:D:1957:ILE:HG23	1:D:2022:LEU:HD13	1.67	0.75
1:B:1879:ASP:HB2	1:B:1889:ILE:HD11	1.69	0.75
1:E:1830:ASP:O	1:E:1834:LEU:HB2	1.86	0.75
1:H:553:VAL:HG12	1:H:555:PRO:HD3	1.69	0.75
1:H:1767:GLN:OE1	1:H:1890:ARG:NH1	2.20	0.75
1:A:1720:TYR:HA	1:A:1723:LEU:HD13	1.66	0.75
1:A:312:HIS:HB3	1:A:389:ARG:HB2	1.67	0.75
1:C:1911:LYS:HB3	1:C:1914:ARG:NH1	1.99	0.75
1:C:1911:LYS:HD3	1:C:1914:ARG:HD2	1.69	0.75
1:D:1423:SER:O	1:D:1428:GLN:NE2	2.20	0.75
1:B:142:GLN:O	1:B:146:GLN:NE2	2.20	0.75
1:E:1837:ARG:NH1	1:E:1842:ASP:O	2.19	0.75
1:D:934:PHE:HA	1:D:937:LEU:HD12	1.69	0.75
1:D:1168:LEU:HD11	1:D:1257:VAL:HG22	1.69	0.75
1:D:1846:GLY:H	1:D:1883:PRO:HD2	1.52	0.75
1:G:1768:GLU:HG2	1:G:1890:ARG:HH21	1.51	0.75
1:C:981:THR:OG1	1:C:1027:ARG:NH1	2.20	0.75
1:C:1423:SER:O	1:C:1428:GLN:NE2	2.19	0.75
1:D:961:PRO:HB2	1:D:964:PHE:H	1.52	0.75
1:D:1140:HIS:HD1	1:D:1256:CYS:HG	1.33	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:388:GLY:O	1:F:391:ARG:NH1	2.18	0.75
1:H:1968:ASN:HA	1:H:1971:ARG:HE	1.50	0.75
1:C:86:LEU:HB2	1:C:122:ILE:HB	1.69	0.75
1:C:934:PHE:HA	1:C:937:LEU:HD12	1.68	0.75
1:C:1058:ASN:HA	1:C:1109:LEU:HD13	1.68	0.75
1:D:220:GLU:OE1	1:D:223:ARG:NH2	2.20	0.75
1:F:238:PRO:HB3	1:F:1140:HIS:HD2	1.52	0.75
1:H:54:LEU:H	1:H:1108:PHE:HZ	1.35	0.75
1:H:983:VAL:HG21	1:H:1037:LEU:HD21	1.69	0.75
1:A:1758:GLY:N	1:A:1765:ASP:OD1	2.20	0.74
1:C:1582:MET:HE1	1:C:1599:TRP:HB3	1.69	0.74
1:D:223:ARG:NH2	1:D:1397:GLU:OE1	2.19	0.74
1:B:972:VAL:HA	1:B:975:VAL:HG12	1.69	0.74
1:E:982:ARG:HH11	1:E:990:ALA:HA	1.52	0.74
1:F:108:GLN:HG3	1:F:732:HIS:CD2	2.21	0.74
1:G:628:THR:HG22	1:G:629:GLU:H	1.49	0.74
1:H:1600:LEU:HA	1:H:1603:MET:HE2	1.68	0.74
1:C:1877:SER:O	1:C:1892:CYS:N	2.19	0.74
1:D:1829:PHE:HB3	1:D:1833:GLU:HG2	1.69	0.74
1:D:1866:LEU:HA	1:D:1869:GLN:HB3	1.69	0.74
1:E:1386:THR:HG22	1:E:1429:SER:HB3	1.68	0.74
1:F:142:GLN:O	1:F:146:GLN:NE2	2.20	0.74
1:E:90:ARG:NH1	1:E:118:GLU:O	2.20	0.74
1:E:806:GLU:HG2	1:E:923:VAL:HG21	1.67	0.74
1:E:1765:ASP:O	1:E:1767:GLN:NE2	2.20	0.74
1:E:1957:ILE:HG12	1:E:2022:LEU:HD22	1.70	0.74
1:G:1521:SER:OG	1:G:1524:HIS:ND1	2.17	0.74
1:D:699:TRP:HB2	1:D:703:HIS:H	1.51	0.74
1:D:1182:PHE:H	1:D:1290:LEU:HD11	1.52	0.74
1:E:142:GLN:O	1:E:146:GLN:NE2	2.21	0.74
1:G:1024:VAL:HG11	1:G:1041:ARG:HH11	1.52	0.74
1:A:1444:VAL:HB	1:A:1448:PRO:HB3	1.67	0.74
1:C:1520:PHE:O	1:C:1569:LYS:NZ	2.20	0.74
1:C:1604:ALA:HA	1:C:1616:ALA:HB1	1.69	0.74
1:C:1846:GLY:O	1:C:1848:ARG:NH1	2.19	0.74
1:D:1476:THR:O	1:D:1480:HIS:ND1	2.14	0.74
1:B:527:ARG:HH11	1:B:528:PRO:HD2	1.51	0.74
1:E:956:ARG:HA	1:E:959:ARG:HB2	1.67	0.74
1:F:1574:ASP:O	1:F:1578:LEU:HB2	1.88	0.74
1:G:551:LEU:HB2	1:G:621:LEU:HB2	1.69	0.74
1:C:579:GLY:HA2	1:C:630:ASN:HB3	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1711:ILE:O	1:D:1715:GLU:HB2	1.88	0.74
1:H:544:HIS:H	1:H:777:HIS:CE1	2.06	0.74
1:H:789:ARG:NH2	1:H:844:GLY:O	2.16	0.74
1:H:916:TRP:O	1:H:924:ARG:NH1	2.20	0.74
1:A:142:GLN:O	1:A:146:GLN:NE2	2.21	0.74
1:C:1687:LEU:HB3	1:C:1710:LEU:HD21	1.69	0.74
1:G:916:TRP:HE3	1:G:971:LEU:HD21	1.52	0.74
1:C:1529:LEU:HA	1:C:1532:ILE:HD12	1.70	0.74
1:D:1780:ALA:O	1:D:1784:HIS:ND1	2.20	0.74
1:B:553:VAL:HB	1:B:619:PHE:HD2	1.53	0.74
1:B:1890:ARG:NH1	1:B:1891:VAL:O	2.21	0.74
1:A:206:LEU:O	1:A:209:ARG:NH2	2.21	0.74
1:C:982:ARG:HH21	1:C:985:LYS:HB2	1.52	0.74
1:D:1261:LEU:O	1:D:1264:THR:OG1	2.06	0.74
1:F:1687:LEU:HB3	1:F:1710:LEU:HD21	1.70	0.74
1:H:539:GLU:HB2	1:H:770:GLU:HG2	1.70	0.74
1:H:1716:ALA:O	1:H:1718:ARG:NH1	2.21	0.74
1:H:109:VAL:HG21	1:H:625:ALA:HB1	1.69	0.73
1:A:1431:LEU:O	1:A:1435:HIS:ND1	2.20	0.73
1:C:115:MET:HE1	1:C:777:HIS:HD2	1.53	0.73
1:C:231:LEU:HD12	1:C:1262:LYS:HD3	1.70	0.73
1:C:1034:PRO:HA	1:C:1037:LEU:HB2	1.71	0.73
1:D:1034:PRO:HA	1:D:1037:LEU:HB2	1.70	0.73
1:B:285:ASP:HB2	1:B:292:ILE:HD13	1.69	0.73
1:B:1064:LEU:HB2	1:B:1092:LYS:HG3	1.68	0.73
1:H:1765:ASP:O	1:H:1767:GLN:NE2	2.22	0.73
1:H:1913:THR:HG23	1:H:1980:LYS:HE3	1.69	0.73
1:D:981:THR:OG1	1:D:1027:ARG:NH1	2.20	0.73
1:B:931:ALA:HA	1:B:934:PHE:HD2	1.53	0.73
1:H:480:ARG:HB3	1:H:481:ARG:HH11	1.53	0.73
1:A:105:LEU:H	1:A:110:ARG:HH21	1.37	0.73
1:C:478:ASP:HA	1:C:480:ARG:HH11	1.51	0.73
1:F:952:LEU:O	1:F:959:ARG:NH2	2.22	0.73
1:F:1443:LEU:HD23	1:F:1446:LYS:HE2	1.70	0.73
1:F:1568:MET:HA	1:F:1578:LEU:HD11	1.69	0.73
1:F:1878:THR:HG22	1:F:1891:VAL:HG22	1.69	0.73
1:A:248:SER:HB3	1:A:826:ARG:HH22	1.54	0.73
1:C:103:GLU:O	1:C:110:ARG:NH2	2.21	0.73
1:D:513:PRO:HG3	1:D:531:GLU:HG2	1.68	0.73
1:D:1026:THR:O	1:D:1029:GLN:NE2	2.21	0.73
1:D:1765:ASP:O	1:D:1767:GLN:NE2	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:553:VAL:HG12	1:E:555:PRO:HD3	1.69	0.73
1:F:1018:ARG:NH1	1:F:1022:LYS:HZ1	1.85	0.73
1:H:1386:THR:HG22	1:H:1429:SER:HB3	1.70	0.73
1:C:466:ARG:NH2	1:C:606:VAL:O	2.21	0.73
1:C:1091:PRO:HA	1:C:1094:THR:HG22	1.70	0.73
1:D:84:GLU:HB2	1:D:126:ARG:NH1	2.04	0.73
1:D:1877:SER:O	1:D:1892:CYS:N	2.21	0.73
1:E:212:PRO:HB3	1:E:1446:LYS:HD2	1.71	0.73
1:E:513:PRO:HG2	1:E:533:LEU:HG	1.69	0.73
1:F:1026:THR:HG21	1:H:758:ARG:HG3	1.70	0.73
1:A:1503:LYS:HD2	1:A:1554:LEU:HD13	1.70	0.73
1:C:1026:THR:O	1:C:1029:GLN:NE2	2.20	0.73
1:C:1942:VAL:HG12	1:C:1944:GLN:H	1.52	0.73
1:D:86:LEU:HB2	1:D:122:ILE:HB	1.70	0.73
1:H:461:LYS:HG3	1:H:492:VAL:HG21	1.71	0.73
1:H:951:ARG:NH1	1:H:959:ARG:O	2.22	0.73
1:H:1637:HIS:H	1:H:1640:LEU:HG	1.54	0.73
1:C:1400:VAL:HA	1:C:1409:ARG:HH12	1.54	0.73
1:D:1253:LEU:HD22	1:D:1254:LEU:HD22	1.70	0.73
1:B:1058:ASN:OD1	1:B:1109:LEU:HB2	1.87	0.73
1:E:915:GLN:O	1:E:919:SER:HB2	1.89	0.73
1:E:1767:GLN:OE1	1:E:1890:ARG:NH1	2.21	0.73
1:G:312:HIS:HB3	1:G:389:ARG:HB2	1.68	0.73
1:G:785:ARG:HH22	1:G:843:PRO:HD2	1.52	0.73
1:H:142:GLN:O	1:H:146:GLN:NE2	2.22	0.73
1:A:297:TYR:OH	1:A:618:GLU:O	2.06	0.73
1:A:782:LYS:HD3	1:A:785:ARG:HH22	1.53	0.73
1:A:1546:THR:O	1:A:1550:GLN:CB	2.37	0.73
1:C:956:ARG:HA	1:C:959:ARG:HB2	1.69	0.73
1:C:1253:LEU:HD22	1:C:1254:LEU:HD22	1.69	0.73
1:E:109:VAL:HG21	1:E:625:ALA:HB1	1.70	0.73
1:G:238:PRO:HB3	1:G:1140:HIS:HD2	1.53	0.73
1:H:348:GLN:NE2	1:H:642:CYS:O	2.21	0.73
1:A:826:ARG:HB3	1:A:828:HIS:CD2	2.23	0.73
1:D:1400:VAL:HA	1:D:1409:ARG:HH12	1.52	0.73
1:H:294:GLU:OE1	1:H:530:LYS:NZ	2.22	0.73
1:A:1261:LEU:O	1:A:1264:THR:OG1	2.06	0.72
1:C:1858:PRO:HG3	1:C:1870:HIS:CE1	2.24	0.72
1:D:730:LEU:HD23	1:D:757:LEU:HD13	1.70	0.72
1:D:1851:LEU:HD11	1:D:1873:LYS:HB2	1.69	0.72
1:B:105:LEU:HB2	1:B:110:ARG:HE	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1712:PRO:HA	1:B:1715:GLU:HB3	1.71	0.72
1:E:956:ARG:NH1	1:E:1007:LEU:O	2.22	0.72
1:C:656:PHE:N	1:C:677:SER:O	2.19	0.72
1:F:302:SER:H	1:F:305:MET:HE2	1.55	0.72
1:G:265:CYS:HB3	1:G:300:LEU:HD11	1.71	0.72
1:G:1508:MET:HE1	1:G:1595:LEU:HD22	1.71	0.72
1:G:1700:TYR:HB2	1:G:1737:ILE:HD11	1.70	0.72
1:H:674:LEU:O	1:H:707:PHE:HB3	1.89	0.72
1:A:1403:VAL:HG13	1:A:1406:SER:HB3	1.71	0.72
1:C:318:ILE:HD13	1:C:524:PRO:HB2	1.72	0.72
1:C:511:LEU:N	1:C:529:THR:O	2.15	0.72
1:C:1617:ALA:HB3	1:C:1694:PHE:CE1	2.24	0.72
1:D:1758:GLY:N	1:D:1765:ASP:OD1	2.20	0.72
1:B:1728:GLY:HA2	1:B:1731:GLN:HG2	1.71	0.72
1:E:1752:PHE:HB2	1:E:1771:TYR:HB2	1.70	0.72
1:E:1872:ARG:HA	1:E:1897:THR:O	1.90	0.72
1:F:956:ARG:NH1	1:F:1007:LEU:O	2.22	0.72
1:H:1876:LEU:HD12	1:H:1891:VAL:HG11	1.71	0.72
1:A:1028:LEU:HB3	1:A:1041:ARG:HH22	1.55	0.72
1:C:1182:PHE:H	1:C:1290:LEU:HD11	1.53	0.72
1:C:1814:ASP:HB3	1:C:1817:LYS:HB3	1.71	0.72
1:F:1008:VAL:HG22	1:F:1009:ASP:H	1.54	0.72
1:G:1437:LEU:HG	1:G:1440:GLN:HE21	1.55	0.72
1:B:1444:VAL:HB	1:B:1448:PRO:HB3	1.71	0.72
1:E:259:GLN:OE1	1:E:445:SER:OG	2.08	0.72
1:E:983:VAL:HG21	1:E:1037:LEU:HD21	1.70	0.72
1:E:1954:LEU:HD21	1:E:1970:LEU:HB3	1.72	0.72
1:A:1886:LYS:HG3	1:A:1888:ARG:H	1.55	0.72
1:C:1102:PRO:O	1:C:1106:GLN:NE2	2.23	0.72
1:C:1123:PRO:HB3	1:C:1178:ARG:HE	1.54	0.72
1:D:511:LEU:N	1:D:529:THR:O	2.19	0.72
1:D:1753:ARG:HH22	1:D:1805:SER:HA	1.52	0.72
1:G:235:TYR:OH	1:G:1251:ARG:NE	2.18	0.72
1:H:1285:LEU:HD13	1:H:1288:LEU:HD12	1.69	0.72
1:B:1009:ASP:HB3	1:B:1012:PHE:HD2	1.55	0.72
1:A:1734:PHE:HZ	1:B:1720:TYR:HB2	1.55	0.72
1:C:1099:LEU:HD12	1:C:1103:PHE:HB3	1.72	0.72
1:D:466:ARG:NH2	1:D:606:VAL:O	2.23	0.72
1:D:663:GLN:N	1:D:666:ARG:O	2.23	0.72
1:B:1574:ASP:HB2	1:B:1793:ARG:HH21	1.54	0.72
1:E:1428:GLN:HB2	1:E:1433:LEU:HG	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1828:TYR:HB2	1:H:1851:LEU:HB2	1.71	0.72
1:C:1451:LEU:HB3	1:C:1459:CYS:HB2	1.72	0.72
1:D:250:PRO:O	1:D:838:TYR:OH	2.08	0.72
1:D:574:VAL:HB	1:D:602:ALA:HB3	1.72	0.72
1:D:1123:PRO:HB3	1:D:1178:ARG:HE	1.54	0.72
1:E:916:TRP:CD1	1:E:927:ILE:HD13	2.24	0.72
1:E:1914:ARG:HH21	1:E:1980:LYS:HZ1	1.38	0.72
1:H:956:ARG:HA	1:H:959:ARG:HB2	1.70	0.72
1:A:1142:LEU:O	1:A:1146:HIS:ND1	2.23	0.71
1:D:1040:LEU:HA	1:D:1043:GLU:HG2	1.72	0.71
1:F:1731:GLN:HE22	1:G:1727:HIS:HE1	1.37	0.71
1:H:1982:GLU:HB3	1:H:1986:ARG:HH22	1.54	0.71
1:A:972:VAL:HA	1:A:975:VAL:HG12	1.70	0.71
1:C:556:HIS:ND1	1:C:615:PHE:O	2.23	0.71
1:D:318:ILE:HD13	1:D:524:PRO:HB2	1.72	0.71
1:D:1771:TYR:OH	1:D:1888:ARG:NH1	2.22	0.71
1:B:920:SER:O	1:B:924:ARG:HB2	1.90	0.71
1:A:393:PRO:HD3	1:A:466:ARG:HH21	1.55	0.71
1:A:802:ARG:HH12	1:D:977:LEU:HD11	1.53	0.71
1:C:1925:PRO:HB2	1:C:1930:LEU:HD22	1.72	0.71
1:E:1061:CYS:SG	1:E:1160:ARG:NH1	2.59	0.71
1:H:1128:ALA:O	1:H:1132:HIS:ND1	2.23	0.71
1:A:541:TYR:CE2	1:A:770:GLU:HG3	2.25	0.71
1:C:1128:ALA:O	1:C:1132:HIS:ND1	2.23	0.71
1:E:54:LEU:H	1:E:1108:PHE:HZ	1.35	0.71
1:E:1551:VAL:HG23	1:E:1552:GLN:HE21	1.54	0.71
1:E:1698:GLY:HA2	1:E:1700:TYR:CZ	2.25	0.71
1:A:461:LYS:HB2	1:A:492:VAL:HG21	1.72	0.71
1:G:1735:THR:HG23	1:G:1738:MET:HE2	1.73	0.71
1:H:982:ARG:HH11	1:H:990:ALA:HA	1.53	0.71
1:H:1698:GLY:HA2	1:H:1700:TYR:CZ	2.25	0.71
1:H:1796:ASP:O	1:H:1817:LYS:NZ	2.23	0.71
1:H:1853:CYS:HB3	1:H:1871:LYS:HE2	1.71	0.71
1:C:253:PRO:HG3	1:C:834:ALA:HB1	1.70	0.71
1:D:1791:THR:O	1:D:1795:GLY:N	2.23	0.71
1:B:83:LEU:HA	1:B:124:HIS:O	1.90	0.71
1:B:321:LEU:O	1:B:527:ARG:NH2	2.21	0.71
1:B:1038:LEU:HA	1:B:1041:ARG:HG3	1.72	0.71
1:E:231:LEU:HB3	1:E:1259:TRP:HD1	1.55	0.71
1:E:1476:THR:O	1:E:1480:HIS:ND1	2.24	0.71
1:E:1636:ASP:OD1	1:E:1637:HIS:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:90:ARG:NH1	1:H:118:GLU:O	2.24	0.71
1:C:916:TRP:O	1:C:924:ARG:NH1	2.18	0.71
1:B:1121:LEU:HA	1:B:1132:HIS:CD2	2.25	0.71
1:B:1285:LEU:HD13	1:B:1288:LEU:HD12	1.72	0.71
1:F:590:PHE:HB2	1:F:620:LYS:HG3	1.71	0.71
1:H:1461:ASP:HA	1:H:1464:LEU:HD12	1.71	0.71
1:A:223:ARG:HH11	1:A:227:ARG:NH2	1.87	0.71
1:A:1425:GLY:HA3	1:A:1465:ARG:HH11	1.55	0.71
1:C:1501:ARG:NH1	1:C:1671:GLY:O	2.23	0.71
1:B:1142:LEU:O	1:B:1146:HIS:ND1	2.21	0.71
1:B:1451:LEU:HB3	1:B:1459:CYS:HB2	1.72	0.71
1:B:1487:LEU:O	1:B:1491:GLN:NE2	2.23	0.71
1:E:925:GLU:OE1	1:E:929:GLN:NE2	2.23	0.71
1:G:51:VAL:HG12	1:G:1104:ARG:HG2	1.73	0.71
1:A:783:LEU:HD22	1:A:808:MET:HE3	1.73	0.71
1:D:82:ASP:O	1:D:125:ARG:HA	1.91	0.71
1:D:1604:ALA:HB2	1:D:1620:MET:HE3	1.70	0.71
1:B:573:ARG:HA	1:B:602:ALA:O	1.90	0.71
1:B:2014:LEU:O	1:B:2018:LEU:N	2.23	0.71
1:F:758:ARG:HH22	1:H:1022:LYS:HB3	1.55	0.71
1:F:927:ILE:O	1:F:931:ALA:HB2	1.90	0.71
1:F:1434:GLN:HG2	1:F:1480:HIS:CE1	2.26	0.71
1:C:725:ASP:HA	1:C:728:PHE:HD2	1.55	0.71
1:B:86:LEU:HB2	1:B:122:ILE:HB	1.73	0.71
1:B:1727:HIS:O	1:B:1731:GLN:NE2	2.15	0.71
1:G:1590:GLN:O	1:G:1596:ARG:NH2	2.24	0.71
1:G:1597:LEU:O	1:G:1601:GLN:NE2	2.24	0.71
1:H:570:LEU:HD21	1:H:613:PRO:HG3	1.72	0.71
1:H:666:ARG:HH21	1:H:667:LEU:HB2	1.56	0.71
1:H:1297:TYR:CE1	1:H:1381:GLU:HG3	2.26	0.71
1:C:1810:LYS:HD2	1:C:1813:LEU:HB2	1.73	0.70
1:D:1058:ASN:HA	1:D:1109:LEU:HD13	1.73	0.70
1:D:1835:LYS:HZ1	1:H:1662:ASP:HB2	1.56	0.70
1:B:1587:ARG:NH2	1:B:1657:GLU:OE2	2.22	0.70
1:E:1700:TYR:HB2	1:E:1737:ILE:HD11	1.72	0.70
1:G:1604:ALA:HB2	1:G:1620:MET:HE3	1.71	0.70
1:H:563:ARG:HH22	1:H:567:VAL:HG11	1.56	0.70
1:B:294:GLU:HB2	1:B:532:ILE:HG23	1.73	0.70
1:B:1598:THR:O	1:B:1602:ASN:ND2	2.23	0.70
1:E:294:GLU:HB2	1:E:532:ILE:HG23	1.72	0.70
1:E:294:GLU:OE1	1:E:530:LYS:NZ	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1010:ARG:HE	1:F:1057:LEU:HD22	1.56	0.70
1:F:1099:LEU:HD11	1:F:1104:ARG:HG3	1.73	0.70
1:G:1403:VAL:HG21	1:G:1412:VAL:HG11	1.73	0.70
1:G:1855:PRO:HA	1:G:1871:LYS:HA	1.73	0.70
1:A:453:THR:HG22	1:A:497:LYS:HE3	1.72	0.70
1:D:1800:GLU:HB2	1:D:1817:LYS:HE3	1.73	0.70
1:G:1800:GLU:HB3	1:G:1819:TYR:HA	1.72	0.70
1:A:93:ARG:HG2	1:A:518:ILE:HD12	1.74	0.70
1:C:788:ILE:HG23	1:C:789:ARG:HG2	1.73	0.70
1:C:790:PRO:HG2	1:C:797:ILE:HD12	1.74	0.70
1:C:1261:LEU:O	1:C:1264:THR:OG1	2.09	0.70
1:C:1849:THR:HA	1:C:1876:LEU:O	1.91	0.70
1:D:47:LEU:HG	1:D:1115:THR:HG23	1.73	0.70
1:D:1128:ALA:O	1:D:1132:HIS:ND1	2.24	0.70
1:B:805:PHE:HA	1:B:808:MET:HE2	1.74	0.70
1:E:511:LEU:N	1:E:529:THR:O	2.24	0.70
1:E:1297:TYR:CE1	1:E:1381:GLU:HG3	2.26	0.70
1:A:342:LEU:HB2	1:A:395:ALA:HB3	1.73	0.70
1:A:982:ARG:NH1	1:A:982:ARG:O	2.24	0.70
1:A:1931:GLN:NE2	1:A:1988:ASN:OD1	2.25	0.70
1:C:836:VAL:HA	1:C:840:PHE:HB2	1.73	0.70
1:D:466:ARG:HH12	1:D:605:PRO:HB2	1.57	0.70
1:D:1417:LEU:HA	1:D:1420:VAL:HG12	1.74	0.70
1:D:1529:LEU:HA	1:D:1532:ILE:HD12	1.73	0.70
1:E:286:VAL:HB	1:E:335:ASP:HB3	1.71	0.70
1:E:1770:VAL:O	1:E:1888:ARG:HA	1.90	0.70
1:E:1796:ASP:O	1:E:1817:LYS:NZ	2.25	0.70
1:F:577:MET:O	1:F:631:HIS:HA	1.92	0.70
1:H:1958:PRO:HG3	1:H:1967:HIS:ND1	2.07	0.70
1:A:1162:ALA:HA	1:A:1165:TYR:CD2	2.26	0.70
1:C:972:VAL:HA	1:C:975:VAL:HG12	1.74	0.70
1:D:1162:ALA:HA	1:D:1165:TYR:HD2	1.57	0.70
1:D:1478:ARG:HD3	1:D:1524:HIS:HB3	1.72	0.70
1:E:1636:ASP:HA	1:E:1640:LEU:HD11	1.73	0.70
1:H:1989:LYS:HB2	1:H:2000:HIS:HE1	1.56	0.70
1:D:1140:HIS:ND1	1:D:1256:CYS:SG	2.58	0.70
1:D:1869:GLN:NE2	1:D:1870:HIS:O	2.25	0.70
1:D:1938:VAL:HA	1:D:2010:LEU:HD22	1.74	0.70
1:B:1850:PHE:HB2	1:B:1876:LEU:HB2	1.73	0.70
1:F:978:GLU:HG2	1:H:920:SER:HB2	1.73	0.70
1:G:917:VAL:O	1:G:924:ARG:NH2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:ARG:HE	1:A:1390:LEU:HD21	1.56	0.70
1:A:1617:ALA:HB1	1:A:1694:PHE:CD1	2.26	0.70
1:A:1798:VAL:O	1:A:1818:ALA:N	2.21	0.70
1:D:1501:ARG:NH1	1:D:1671:GLY:O	2.24	0.70
1:D:1963:LEU:O	1:D:1967:HIS:ND1	2.15	0.70
1:B:951:ARG:NH1	1:B:959:ARG:O	2.25	0.70
1:F:86:LEU:HB3	1:F:122:ILE:HB	1.73	0.70
1:C:1598:THR:O	1:C:1602:ASN:ND2	2.22	0.70
1:B:1261:LEU:O	1:B:1264:THR:OG1	2.08	0.70
1:F:731:VAL:HA	1:F:734:LEU:HD12	1.74	0.70
1:H:1587:ARG:NH2	1:H:1657:GLU:OE1	2.25	0.70
1:C:334:PRO:O	1:C:400:HIS:NE2	2.24	0.70
1:C:802:ARG:HH22	1:B:977:LEU:HD11	1.57	0.70
1:C:1947:LEU:HA	1:C:2014:LEU:HD21	1.73	0.70
1:D:674:LEU:HD22	1:D:690:PRO:HG2	1.73	0.70
1:E:1170:SER:O	1:E:1173:ARG:HG2	1.91	0.70
1:F:235:TYR:OH	1:F:1251:ARG:NE	2.17	0.70
1:H:823:GLN:HA	1:H:830:PRO:HD3	1.73	0.70
1:C:342:LEU:HD12	1:C:395:ALA:HB3	1.72	0.69
1:C:392:MET:HE1	1:C:608:TYR:H	1.57	0.69
1:C:1001:LEU:HD23	1:C:1004:LEU:HD12	1.72	0.69
1:C:1878:THR:OG1	1:C:1880:HIS:O	2.09	0.69
1:D:1091:PRO:HA	1:D:1094:THR:HG22	1.73	0.69
1:B:812:VAL:HA	1:B:815:VAL:HG22	1.74	0.69
1:E:50:VAL:HG21	1:E:1018:ARG:HB2	1.73	0.69
1:A:783:LEU:HB3	1:A:808:MET:HE3	1.74	0.69
1:D:280:ILE:HG21	1:D:295:ASN:HD22	1.57	0.69
1:D:972:VAL:HA	1:D:975:VAL:HG12	1.74	0.69
1:E:1618:GLN:O	1:E:1622:HIS:ND1	2.25	0.69
1:E:1838:VAL:HG13	1:E:1839:THR:HG23	1.73	0.69
1:H:1018:ARG:HA	1:H:1021:TYR:CD1	2.27	0.69
1:A:294:GLU:HB2	1:A:532:ILE:HG23	1.75	0.69
1:C:674:LEU:HD22	1:C:690:PRO:HG2	1.72	0.69
1:C:1020:HIS:CE1	1:C:1041:ARG:HH22	2.10	0.69
1:D:321:LEU:HD23	1:D:527:ARG:HE	1.57	0.69
1:E:231:LEU:HD22	1:E:1259:TRP:HB2	1.73	0.69
1:E:1741:SER:OG	1:H:1720:TYR:OH	2.10	0.69
1:F:1022:LYS:HB2	1:H:758:ARG:HH22	1.57	0.69
1:A:265:CYS:HB3	1:A:300:LEU:HD11	1.73	0.69
1:A:1410:GLU:HG2	1:A:1411:SER:H	1.56	0.69
1:C:912:LEU:O	1:C:915:GLN:HG2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1560:MET:HE1	1:E:1965:ARG:H	1.57	0.69
1:B:127:TYR:HB3	1:B:130:LEU:HD12	1.73	0.69
1:B:1410:GLU:HG2	1:B:1411:SER:N	2.06	0.69
1:E:570:LEU:HD21	1:E:613:PRO:HG3	1.73	0.69
1:F:267:SER:O	1:F:269:LYS:NZ	2.25	0.69
1:F:1954:LEU:HA	1:F:1967:HIS:HD2	1.58	0.69
1:H:379:ALA:O	1:H:382:GLN:NE2	2.25	0.69
1:A:541:TYR:HE2	1:A:770:GLU:HG3	1.57	0.69
1:D:1421:LEU:HD23	1:D:1424:LEU:HD21	1.74	0.69
1:B:312:HIS:O	1:B:389:ARG:NH2	2.25	0.69
1:E:951:ARG:NH1	1:E:959:ARG:O	2.25	0.69
1:G:952:LEU:O	1:G:959:ARG:NH2	2.26	0.69
1:A:151:ARG:HH22	1:A:158:ALA:HB2	1.58	0.69
1:A:934:PHE:HA	1:A:937:LEU:HD12	1.74	0.69
1:A:1243:CYS:SG	1:A:1244:ALA:N	2.58	0.69
1:D:553:VAL:HG12	1:D:555:PRO:HD3	1.74	0.69
1:D:1644:CYS:HB2	1:D:1647:PHE:HB2	1.74	0.69
1:B:1750:THR:HB	1:B:1824:TYR:HE1	1.58	0.69
1:E:674:LEU:HB3	1:E:690:PRO:HG2	1.75	0.69
1:F:573:ARG:HA	1:F:602:ALA:O	1.92	0.69
1:A:1009:ASP:HB3	1:A:1012:PHE:CD2	2.27	0.69
1:A:1437:LEU:O	1:A:1440:GLN:NE2	2.26	0.69
1:A:1501:ARG:HH21	1:A:1504:MET:HE1	1.57	0.69
1:A:1804:ASP:O	1:A:1821:GLN:NE2	2.26	0.69
1:C:1121:LEU:HA	1:C:1132:HIS:CD2	2.27	0.69
1:D:725:ASP:HA	1:D:728:PHE:HD2	1.57	0.69
1:B:115:MET:SD	1:B:778:HIS:NE2	2.65	0.69
1:B:1117:LEU:HD23	1:B:1135:ALA:HB1	1.73	0.69
1:E:90:ARG:NH2	1:E:115:MET:SD	2.65	0.69
1:E:1853:CYS:HB3	1:E:1871:LYS:HE2	1.72	0.69
1:F:63:ARG:NE	1:F:1061:CYS:O	2.26	0.69
1:F:1728:GLY:HA2	1:F:1731:GLN:HG2	1.74	0.69
1:G:260:ARG:NH1	1:G:505:GLU:O	2.25	0.69
1:G:294:GLU:HB2	1:G:532:ILE:HG23	1.73	0.69
1:G:1434:GLN:HG2	1:G:1480:HIS:CE1	2.27	0.69
1:G:1903:GLU:HA	1:G:1906:ILE:HG12	1.73	0.69
1:H:294:GLU:HB2	1:H:532:ILE:HG23	1.75	0.69
1:A:977:LEU:O	1:A:981:THR:OG1	2.10	0.69
1:C:1450:LEU:HA	1:C:1453:GLU:HG3	1.75	0.69
1:D:1046:ARG:HH21	1:D:1047:ILE:HD11	1.57	0.69
1:D:1590:GLN:OE1	1:D:1596:ARG:NH1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1931:GLN:HE22	1:D:1932:MET:HE2	1.58	0.69
1:B:743:LEU:HB2	1:B:746:THR:H	1.58	0.69
1:B:919:SER:HB3	1:B:924:ARG:HD2	1.73	0.69
1:B:1028:LEU:HB3	1:B:1041:ARG:NH2	2.08	0.69
1:E:1877:SER:O	1:E:1892:CYS:N	2.24	0.69
1:E:1982:GLU:HB3	1:E:1986:ARG:HH22	1.57	0.69
1:G:699:TRP:HB3	1:G:703:HIS:H	1.57	0.69
1:H:284:TYR:OH	1:H:295:ASN:ND2	2.26	0.69
1:H:956:ARG:NH1	1:H:1007:LEU:O	2.25	0.69
1:H:1683:LEU:O	1:H:1687:LEU:HG	1.93	0.69
1:H:1703:VAL:HA	1:H:1706:VAL:HG12	1.75	0.69
1:A:915:GLN:HA	1:A:918:VAL:HG22	1.73	0.69
1:C:971:LEU:O	1:C:974:SER:OG	2.11	0.69
1:D:231:LEU:HB3	1:D:1259:TRP:CD1	2.28	0.69
1:D:789:ARG:NH2	1:D:846:GLU:OE2	2.25	0.69
1:D:1810:LYS:HD2	1:D:1813:LEU:HB2	1.74	0.69
1:B:1582:MET:HG3	1:B:1603:MET:HE1	1.75	0.69
1:F:1521:SER:OG	1:F:1524:HIS:ND1	2.20	0.69
1:F:1847:LEU:HB3	1:F:1850:PHE:CE1	2.28	0.69
1:G:1604:ALA:HA	1:G:1616:ALA:HB1	1.75	0.69
1:H:106:ASP:OD1	1:H:732:HIS:NE2	2.24	0.69
1:H:1856:PHE:CE1	1:H:1872:ARG:HB2	2.27	0.69
1:A:1105:GLN:HA	1:A:1108:PHE:HE2	1.58	0.69
1:C:1767:GLN:OE1	1:C:1890:ARG:NH1	2.25	0.69
1:C:2009:ARG:NH1	1:C:2012:GLU:OE2	2.26	0.69
1:D:1153:ALA:O	1:D:1158:LYS:NZ	2.25	0.69
1:B:1001:LEU:HA	1:B:1004:LEU:HD12	1.74	0.69
1:F:260:ARG:NH1	1:F:505:GLU:O	2.25	0.69
1:G:239:ASP:OD2	1:G:1133:LYS:NZ	2.26	0.69
1:H:790:PRO:HD2	1:H:903:LEU:HA	1.74	0.69
1:H:1476:THR:O	1:H:1480:HIS:ND1	2.26	0.69
1:A:478:ASP:HA	1:A:480:ARG:NH1	2.06	0.68
1:C:789:ARG:NH2	1:C:844:GLY:O	2.25	0.68
1:D:971:LEU:O	1:D:974:SER:OG	2.11	0.68
1:E:1250:SER:HA	1:E:1253:LEU:HD12	1.75	0.68
1:H:511:LEU:N	1:H:529:THR:O	2.25	0.68
1:H:1455:ASP:OD1	1:H:1676:LYS:NZ	2.26	0.68
1:A:312:HIS:O	1:A:389:ARG:NH2	2.25	0.68
1:A:743:LEU:HD12	1:A:746:THR:HB	1.75	0.68
1:A:1110:ALA:HA	1:A:1113:LEU:HD12	1.74	0.68
1:D:548:ARG:O	1:D:716:SER:HB3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1001:LEU:HD23	1:D:1004:LEU:HD12	1.73	0.68
1:D:1015:SER:O	1:D:1018:ARG:NH1	2.26	0.68
1:D:1769:PHE:HA	1:D:1889:ILE:O	1.93	0.68
1:B:338:LEU:N	1:B:399:VAL:O	2.23	0.68
1:B:1491:GLN:O	1:B:1495:ILE:HG12	1.92	0.68
1:B:1552:GLN:HA	1:B:1555:MET:SD	2.34	0.68
1:F:743:LEU:HD12	1:F:746:THR:HB	1.74	0.68
1:F:1954:LEU:HD21	1:F:1970:LEU:HB3	1.75	0.68
1:A:780:LEU:HA	1:A:808:MET:HE2	1.76	0.68
1:A:1712:PRO:HA	1:A:1715:GLU:HB3	1.74	0.68
1:C:1128:ALA:HA	1:C:1131:LEU:HD23	1.75	0.68
1:C:1925:PRO:HG2	1:C:1991:LEU:HD11	1.74	0.68
1:B:260:ARG:NH1	1:B:504:PRO:O	2.26	0.68
1:B:1425:GLY:HA3	1:B:1465:ARG:HH11	1.57	0.68
1:B:1687:LEU:HB3	1:B:1710:LEU:HD21	1.75	0.68
1:F:2001:ARG:HH21	1:F:2005:ARG:HB3	1.58	0.68
1:G:1627:VAL:HG23	1:G:1683:LEU:HD23	1.75	0.68
1:H:674:LEU:HB3	1:H:690:PRO:HG2	1.75	0.68
1:H:1409:ARG:HD2	1:H:1413:LEU:HD22	1.75	0.68
1:H:1504:MET:HE1	1:H:1671:GLY:HA3	1.75	0.68
1:A:991:GLU:OE2	1:A:992:HIS:ND1	2.27	0.68
1:A:1090:ASP:HB3	1:A:1093:VAL:HG22	1.75	0.68
1:C:1730:LEU:HG	1:D:1727:HIS:CE1	2.28	0.68
1:D:284:TYR:HD1	1:D:291:LYS:HA	1.57	0.68
1:D:342:LEU:HD12	1:D:395:ALA:HB3	1.75	0.68
1:B:398:ALA:HB3	1:B:479:MET:HG2	1.75	0.68
1:B:935:PHE:HA	1:B:938:MET:SD	2.33	0.68
1:B:1054:TYR:CE1	1:B:1109:LEU:HD23	2.29	0.68
1:E:790:PRO:HD2	1:E:903:LEU:HA	1.74	0.68
1:F:1034:PRO:HA	1:F:1037:LEU:HB2	1.76	0.68
1:G:723:TYR:HA	1:G:726:LYS:HD2	1.76	0.68
1:H:1428:GLN:HB2	1:H:1433:LEU:HG	1.75	0.68
1:A:1033:ASN:OD1	1:A:1036:ALA:N	2.24	0.68
1:A:1557:ASN:O	1:A:1561:ILE:HG12	1.94	0.68
1:C:1020:HIS:CE1	1:C:1041:ARG:NH2	2.62	0.68
1:C:1568:MET:HA	1:C:1578:LEU:HD11	1.75	0.68
1:C:1926:ASP:O	1:C:1930:LEU:HB3	1.94	0.68
1:C:1957:ILE:HG23	1:C:2022:LEU:HD13	1.76	0.68
1:D:1700:TYR:HB2	1:D:1737:ILE:HD11	1.76	0.68
1:G:82:ASP:O	1:G:125:ARG:HA	1.92	0.68
1:H:1170:SER:O	1:H:1173:ARG:HG2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1872:ARG:HD3	1:H:1896:GLU:HB3	1.74	0.68
1:A:758:ARG:NH1	1:D:1026:THR:OG1	2.27	0.68
1:C:1778:LYS:HG2	1:C:1781:GLU:CD	2.18	0.68
1:E:764:LEU:HD21	1:E:807:ALA:HB1	1.76	0.68
1:F:513:PRO:HG2	1:F:533:LEU:HG	1.74	0.68
1:F:1855:PRO:HA	1:F:1871:LYS:HA	1.75	0.68
1:G:590:PHE:HB2	1:G:620:LYS:HG3	1.76	0.68
1:H:1872:ARG:HA	1:H:1897:THR:O	1.93	0.68
1:A:1451:LEU:HB3	1:A:1459:CYS:HB2	1.75	0.68
1:C:907:LEU:O	1:C:910:GLU:HG2	1.93	0.68
1:C:1417:LEU:HA	1:C:1420:VAL:HG12	1.74	0.68
1:C:1437:LEU:HD23	1:C:1441:ARG:HE	1.59	0.68
1:C:1758:GLY:N	1:C:1765:ASP:OD1	2.22	0.68
1:D:81:ASP:HA	1:D:126:ARG:HH21	1.59	0.68
1:D:1751:TYR:HE1	1:D:1772:LYS:HD3	1.59	0.68
1:B:309:LEU:HG	1:B:313:GLY:HA3	1.74	0.68
1:B:541:TYR:CE2	1:B:770:GLU:HG3	2.25	0.68
1:B:1110:ALA:O	1:B:1114:LEU:HD12	1.94	0.68
1:E:1128:ALA:O	1:E:1132:HIS:ND1	2.23	0.68
1:F:466:ARG:HH11	1:F:616:TYR:H	1.42	0.68
1:H:1447:PHE:HD2	1:H:1450:LEU:HD23	1.57	0.68
1:A:127:TYR:HB3	1:A:130:LEU:HD12	1.76	0.68
1:C:268:LEU:HB2	1:C:300:LEU:HD13	1.76	0.68
1:C:548:ARG:O	1:C:716:SER:HB3	1.93	0.68
1:D:556:HIS:ND1	1:D:615:PHE:O	2.27	0.68
1:G:754:GLU:HA	1:G:757:LEU:HD12	1.75	0.68
1:H:1417:LEU:HA	1:H:1420:VAL:HG12	1.75	0.68
1:A:1727:HIS:ND1	1:B:1731:GLN:OE1	2.26	0.68
1:C:1046:ARG:HH21	1:C:1047:ILE:HD11	1.59	0.68
1:D:125:ARG:HB2	1:D:128:GLN:HB2	1.76	0.68
1:G:1437:LEU:HD21	1:G:1484:SER:HB3	1.76	0.68
1:G:1496:GLY:O	1:G:1498:ASN:ND2	2.26	0.68
1:G:1989:LYS:HB3	1:G:2000:HIS:CE1	2.29	0.68
1:A:451:PRO:HG3	1:A:501:SER:HA	1.75	0.68
1:A:1590:GLN:OE1	1:A:1596:ARG:NH1	2.27	0.68
1:A:1879:ASP:OD2	1:A:1890:ARG:HB3	1.94	0.68
1:C:721:ASP:HB3	1:C:724:LEU:HD13	1.76	0.68
1:D:1121:LEU:HA	1:D:1132:HIS:CD2	2.29	0.68
1:D:1467:LEU:HB3	1:D:1513:LEU:HD22	1.74	0.68
1:B:105:LEU:O	1:B:110:ARG:NH2	2.26	0.68
1:E:106:ASP:OD1	1:E:732:HIS:NE2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1250:SER:HA	1:H:1253:LEU:HD12	1.76	0.68
1:H:1749:GLY:HA2	1:H:1774:PRO:HA	1.74	0.68
1:A:1785:ARG:NH1	1:A:1785:ARG:O	2.25	0.67
1:A:1848:ARG:HG3	1:A:1881:ALA:HB2	1.77	0.67
1:D:513:PRO:HA	1:D:530:LYS:HE2	1.76	0.67
1:B:1409:ARG:HD2	1:B:1413:LEU:HG	1.75	0.67
1:B:1723:LEU:O	1:B:1727:HIS:HB2	1.94	0.67
1:E:1038:LEU:HD23	1:E:1041:ARG:HG3	1.75	0.67
1:G:1279:PRO:HB2	1:G:1283:ARG:HH12	1.59	0.67
1:H:341:LYS:HE2	1:H:462:GLN:HE22	1.59	0.67
1:H:1877:SER:O	1:H:1892:CYS:N	2.27	0.67
1:C:1008:VAL:HG22	1:C:1009:ASP:H	1.59	0.67
1:C:1590:GLN:OE1	1:C:1596:ARG:NH1	2.28	0.67
1:D:1008:VAL:HG22	1:D:1009:ASP:H	1.60	0.67
1:B:956:ARG:HA	1:B:959:ARG:HB2	1.76	0.67
1:B:1012:PHE:O	1:B:1015:SER:OG	2.13	0.67
1:B:1167:PRO:O	1:B:1170:SER:N	2.27	0.67
1:E:824:ASP:OD1	1:E:828:HIS:N	2.27	0.67
1:E:1413:LEU:HA	1:E:1416:VAL:HB	1.76	0.67
1:F:275:GLU:OE2	1:F:347:GLN:NE2	2.27	0.67
1:G:466:ARG:HD3	1:G:616:TYR:HD1	1.59	0.67
1:G:1903:GLU:HG2	1:G:1906:ILE:HD11	1.75	0.67
1:H:819:LEU:HD22	1:H:822:ALA:HB3	1.75	0.67
1:H:835:TYR:O	1:H:840:PHE:N	2.27	0.67
1:H:1423:SER:O	1:H:1428:GLN:NE2	2.27	0.67
1:H:1770:VAL:O	1:H:1888:ARG:HA	1.94	0.67
1:A:1719:ASP:OD2	1:A:1721:LYS:NZ	2.19	0.67
1:A:1735:THR:HA	1:A:1738:MET:SD	2.33	0.67
1:C:1137:SER:O	1:C:1140:HIS:HB3	1.94	0.67
1:C:1530:LYS:HA	1:C:1533:LEU:HD13	1.77	0.67
1:B:1397:GLU:HG3	1:B:1401:GLN:HE22	1.60	0.67
1:F:578:THR:HG23	1:F:584:GLN:HE21	1.60	0.67
1:H:262:LEU:HB2	1:H:503:ALA:HB2	1.77	0.67
1:A:912:LEU:HA	1:A:915:GLN:HE21	1.58	0.67
1:A:2014:LEU:O	1:A:2018:LEU:N	2.23	0.67
1:C:1644:CYS:HB2	1:C:1647:PHE:HB2	1.76	0.67
1:B:451:PRO:HG3	1:B:501:SER:HA	1.75	0.67
1:F:551:LEU:HB2	1:F:621:LEU:HB2	1.75	0.67
1:F:1652:SER:O	1:F:1848:ARG:NH2	2.27	0.67
1:H:698:ARG:NH1	1:H:699:TRP:O	2.28	0.67
1:H:1259:TRP:O	1:H:1263:ASN:ND2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1618:GLN:O	1:H:1622:HIS:ND1	2.27	0.67
1:A:105:LEU:O	1:A:110:ARG:NH2	2.27	0.67
1:A:994:ASN:HD21	1:A:1040:LEU:HD12	1.58	0.67
1:B:1650:ILE:O	1:B:1845:TYR:OH	2.08	0.67
1:E:1593:PRO:HG2	1:E:1673:CYS:SG	2.34	0.67
1:E:1838:VAL:HG11	1:H:1718:ARG:HH21	1.59	0.67
1:G:1507:THR:HG23	1:G:1558:LEU:HD21	1.75	0.67
1:G:1974:PHE:HB3	1:G:2018:LEU:HD21	1.76	0.67
1:H:118:GLU:OE2	1:H:841:ARG:NH1	2.28	0.67
1:H:1922:GLN:NE2	1:H:1929:MET:SD	2.67	0.67
1:A:1128:ALA:HA	1:A:1131:LEU:HD23	1.76	0.67
1:B:563:ARG:HH22	1:B:567:VAL:HG11	1.59	0.67
1:E:1530:LYS:HA	1:E:1533:LEU:HD13	1.76	0.67
1:F:120:TRP:HZ3	1:F:839:ALA:HB2	1.59	0.67
1:F:656:PHE:N	1:F:677:SER:O	2.27	0.67
1:G:466:ARG:HH11	1:G:616:TYR:H	1.40	0.67
1:A:285:ASP:HB2	1:A:292:ILE:HD13	1.77	0.67
1:C:775:PHE:O	1:C:778:HIS:N	2.28	0.67
1:B:658:TRP:CD1	1:B:660:PRO:HD3	2.30	0.67
1:F:1754:VAL:HA	1:F:1821:GLN:O	1.95	0.67
1:G:108:GLN:HG3	1:G:732:HIS:CD2	2.28	0.67
1:A:527:ARG:NH1	1:A:529:THR:OG1	2.28	0.67
1:A:743:LEU:HB2	1:A:746:THR:H	1.59	0.67
1:C:788:ILE:O	1:C:789:ARG:NH1	2.28	0.67
1:C:1015:SER:O	1:C:1018:ARG:NH1	2.27	0.67
1:D:129:TYR:HA	1:D:134:TYR:HB3	1.76	0.67
1:D:231:LEU:HD12	1:D:1262:LYS:HD3	1.77	0.67
1:G:1523:GLU:OE2	1:G:1527:ARG:NH2	2.27	0.67
1:H:1510:LEU:HD21	1:H:1558:LEU:HD22	1.75	0.67
1:A:811:VAL:O	1:A:814:LEU:HG	1.95	0.67
1:A:1410:GLU:HG2	1:A:1411:SER:N	2.07	0.67
1:A:1866:LEU:HA	1:A:1869:GLN:HB3	1.77	0.67
1:C:824:ASP:OD1	1:C:828:HIS:N	2.28	0.67
1:B:1931:GLN:NE2	1:B:1988:ASN:OD1	2.23	0.67
1:E:1683:LEU:O	1:E:1687:LEU:HG	1.95	0.67
1:F:283:LEU:HD12	1:F:336:ILE:HG22	1.77	0.67
1:F:1043:GLU:OE1	1:F:1046:ARG:NH2	2.18	0.67
1:G:806:GLU:O	1:G:810:HIS:ND1	2.27	0.67
1:H:281:LEU:HD22	1:H:338:LEU:HD11	1.77	0.67
1:H:1856:PHE:O	1:H:1869:GLN:NE2	2.28	0.67
1:A:663:GLN:OE1	1:A:668:ARG:NH2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1704:ASN:OD1	1:A:1708:LYS:NZ	2.27	0.67
1:D:109:VAL:HG12	1:D:717:VAL:HG21	1.77	0.67
1:D:334:PRO:O	1:D:400:HIS:NE2	2.25	0.67
1:D:1909:MET:HG3	1:D:1970:LEU:HD11	1.75	0.67
1:B:776:SER:HA	1:B:779:VAL:HG22	1.77	0.67
1:F:568:ARG:NH1	1:F:569:ASN:OD1	2.27	0.67
1:F:908:LEU:HD23	1:F:941:SER:HB2	1.76	0.67
1:H:1693:TYR:HA	1:H:1696:MET:HG3	1.76	0.67
1:H:2015:GLN:O	1:H:2019:THR:OG1	2.11	0.67
1:A:581:ASP:HB3	1:A:584:GLN:HG2	1.77	0.66
1:A:1723:LEU:HB3	1:B:1734:PHE:HZ	1.58	0.66
1:C:754:GLU:O	1:C:758:ARG:HG2	1.95	0.66
1:C:1564:ASP:O	1:C:1567:LYS:HG2	1.95	0.66
1:B:772:LEU:O	1:B:776:SER:CB	2.37	0.66
1:E:1417:LEU:HA	1:E:1420:VAL:HG12	1.76	0.66
1:E:1751:TYR:HA	1:E:1771:TYR:O	1.95	0.66
1:F:1734:PHE:HA	1:F:1737:ILE:HD12	1.77	0.66
1:G:260:ARG:HH12	1:G:507:PRO:HD3	1.60	0.66
1:A:669:THR:HA	1:A:711:LEU:HD23	1.77	0.66
1:C:284:TYR:HD1	1:C:291:LYS:HA	1.60	0.66
1:C:749:SER:N	1:C:752:ASN:OD1	2.28	0.66
1:B:974:SER:HA	1:B:977:LEU:HD12	1.77	0.66
1:B:1796:ASP:O	1:B:1817:LYS:NZ	2.26	0.66
1:F:1507:THR:HG22	1:F:1595:LEU:HD11	1.76	0.66
1:G:86:LEU:HB3	1:G:122:ILE:HB	1.76	0.66
1:G:632:HIS:HA	1:G:661:LEU:HG	1.77	0.66
1:A:467:LEU:HD23	1:A:472:LEU:HD13	1.76	0.66
1:A:783:LEU:HD21	1:A:804:ALA:HB1	1.76	0.66
1:A:1010:ARG:HB3	1:A:1014:PHE:HE2	1.61	0.66
1:A:1292:LEU:HD13	1:A:1295:PHE:HB2	1.75	0.66
1:A:2005:ARG:HD2	1:A:2009:ARG:HH22	1.60	0.66
1:C:962:GLY:HA2	1:C:965:LEU:HD12	1.76	0.66
1:D:1520:PHE:O	1:D:1569:LYS:NZ	2.28	0.66
1:D:1549:GLU:HA	1:D:1552:GLN:HG2	1.75	0.66
1:B:979:VAL:HB	1:B:993:LEU:HD23	1.77	0.66
1:B:1090:ASP:HB3	1:B:1093:VAL:HG22	1.76	0.66
1:F:390:TYR:HE1	1:F:603:PHE:HB3	1.59	0.66
1:G:513:PRO:HG2	1:G:533:LEU:HG	1.77	0.66
1:C:50:VAL:HG21	1:C:1112:LEU:HD21	1.76	0.66
1:C:129:TYR:HA	1:C:134:TYR:HB3	1.77	0.66
1:C:824:ASP:HB3	1:C:830:PRO:HG3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1590:GLN:OE1	1:B:1596:ARG:NH1	2.29	0.66
1:B:1856:PHE:HE1	1:B:1872:ARG:HB3	1.60	0.66
1:F:261:ILE:HB	1:F:327:PHE:HB2	1.75	0.66
1:H:764:LEU:HD21	1:H:807:ALA:HB1	1.77	0.66
1:A:1025:ALA:HA	1:A:1028:LEU:HD23	1.78	0.66
1:A:1300:LYS:HZ1	1:A:1374:MET:HB3	1.61	0.66
1:C:342:LEU:N	1:C:395:ALA:O	2.29	0.66
1:D:1461:ASP:HA	1:D:1464:LEU:HD12	1.78	0.66
1:F:1090:ASP:HB3	1:F:1093:VAL:HG22	1.77	0.66
1:F:1178:ARG:NH1	1:F:1243:CYS:O	2.28	0.66
1:H:1577:MET:SD	1:H:1888:ARG:NH1	2.68	0.66
1:H:1908:ASP:HA	1:H:1911:LYS:HE2	1.78	0.66
1:A:951:ARG:CZ	1:A:959:ARG:HA	2.26	0.66
1:A:1278:LEU:HA	1:A:1281:LEU:HD12	1.78	0.66
1:D:783:LEU:HD13	1:D:808:MET:HG2	1.78	0.66
1:B:278:PHE:HZ	1:B:309:LEU:HD22	1.60	0.66
1:B:1258:LEU:HD13	1:B:1261:LEU:HD12	1.78	0.66
1:B:1711:ILE:O	1:B:1715:GLU:HB2	1.96	0.66
1:E:379:ALA:O	1:E:382:GLN:NE2	2.26	0.66
1:E:1703:VAL:HA	1:E:1706:VAL:HG12	1.77	0.66
1:F:1447:PHE:HD2	1:F:1450:LEU:HB2	1.61	0.66
1:G:283:LEU:HD12	1:G:336:ILE:HG22	1.75	0.66
1:G:563:ARG:HH12	1:G:567:VAL:HB	1.61	0.66
1:H:457:THR:HA	1:H:495:GLN:HG3	1.77	0.66
1:C:580:GLU:OE2	1:C:686:SER:OG	2.14	0.66
1:B:285:ASP:OD1	1:B:286:VAL:N	2.29	0.66
1:E:674:LEU:O	1:E:707:PHE:HB3	1.94	0.66
1:E:755:GLN:HE21	1:G:1026:THR:HA	1.61	0.66
1:F:1400:VAL:HG11	1:F:1446:LYS:HE3	1.78	0.66
1:G:1508:MET:HE3	1:G:1594:ASP:HB3	1.77	0.66
1:H:223:ARG:HD3	1:H:1393:LEU:HD22	1.76	0.66
1:H:977:LEU:O	1:H:1027:ARG:NH1	2.27	0.66
1:H:1869:GLN:NE2	1:H:1870:HIS:O	2.15	0.66
1:A:309:LEU:HG	1:A:313:GLY:HA3	1.77	0.66
1:A:1172:ALA:O	1:A:1175:THR:OG1	2.11	0.66
1:D:755:GLN:CD	1:D:755:GLN:H	2.03	0.66
1:B:146:GLN:O	1:B:1376:HIS:NE2	2.29	0.66
1:B:589:ILE:HG12	1:B:621:LEU:HG	1.78	0.66
1:B:912:LEU:HD12	1:B:915:GLN:NE2	2.11	0.66
1:B:1024:VAL:HG13	1:B:1041:ARG:NH1	2.10	0.66
1:E:1903:GLU:HA	1:E:1906:ILE:HD12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1424:LEU:HD11	1:G:1436:GLY:HA3	1.77	0.66
1:H:1764:LEU:O	1:H:1767:GLN:HG2	1.96	0.66
1:A:141:THR:HB	1:A:145:ARG:NH1	2.09	0.66
1:A:935:PHE:HA	1:A:938:MET:SD	2.36	0.66
1:D:1137:SER:O	1:D:1140:HIS:HB3	1.96	0.66
1:E:223:ARG:HD3	1:E:1393:LEU:HD22	1.77	0.66
1:E:231:LEU:HD13	1:E:1259:TRP:HA	1.78	0.66
1:E:463:GLU:OE2	1:E:490:ARG:NH1	2.28	0.66
1:E:990:ALA:O	1:E:994:ASN:ND2	2.28	0.66
1:E:1872:ARG:HD3	1:E:1896:GLU:HB3	1.77	0.66
1:F:1753:ARG:HD3	1:F:1876:LEU:HD21	1.78	0.66
1:G:92:CYS:SG	1:G:94:THR:OG1	2.53	0.66
1:A:1491:GLN:O	1:A:1495:ILE:HG12	1.96	0.66
1:C:1810:LYS:NZ	1:C:1813:LEU:O	2.29	0.66
1:D:265:CYS:O	1:D:323:ARG:NH1	2.27	0.66
1:D:982:ARG:HH21	1:D:985:LYS:HB2	1.61	0.66
1:D:2005:ARG:NH1	1:D:2006:ASN:OD1	2.29	0.66
1:B:1139:VAL:O	1:B:1142:LEU:HB3	1.96	0.66
1:B:1278:LEU:HA	1:B:1281:LEU:HD12	1.76	0.66
1:B:1498:ASN:OD1	1:B:1501:ARG:NH1	2.28	0.66
1:E:235:TYR:HE1	1:E:1251:ARG:HE	1.43	0.66
1:F:1447:PHE:CD2	1:F:1450:LEU:HB2	2.31	0.66
1:G:141:THR:HB	1:G:145:ARG:HH12	1.60	0.66
1:G:574:VAL:HB	1:G:602:ALA:HB3	1.78	0.66
1:A:146:GLN:O	1:A:1376:HIS:NE2	2.29	0.65
1:C:972:VAL:HG21	1:C:1016:LEU:HD22	1.77	0.65
1:D:715:SER:OG	1:D:718:HIS:ND1	2.25	0.65
1:B:1403:VAL:HG13	1:B:1406:SER:HB3	1.77	0.65
1:B:1754:VAL:HA	1:B:1821:GLN:O	1.97	0.65
1:E:1487:LEU:O	1:E:1491:GLN:NE2	2.29	0.65
1:E:1686:LEU:O	1:E:1689:GLN:NE2	2.29	0.65
1:E:1723:LEU:HB3	1:E:1727:HIS:CE1	2.31	0.65
1:F:1437:LEU:HD21	1:F:1484:SER:HB3	1.79	0.65
1:G:1954:LEU:HD21	1:G:1970:LEU:HB3	1.76	0.65
1:A:806:GLU:O	1:A:810:HIS:ND1	2.29	0.65
1:C:835:TYR:O	1:C:839:ALA:N	2.29	0.65
1:D:754:GLU:O	1:D:758:ARG:HG2	1.96	0.65
1:D:1564:ASP:HA	1:D:1567:LYS:HE3	1.77	0.65
1:B:934:PHE:HA	1:B:937:LEU:HD12	1.78	0.65
1:E:262:LEU:HB2	1:E:503:ALA:HB2	1.78	0.65
1:H:556:HIS:HA	1:H:615:PHE:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:806:GLU:O	1:H:810:HIS:ND1	2.29	0.65
1:H:1604:ALA:HB2	1:H:1620:MET:HE3	1.76	0.65
1:A:105:LEU:HB2	1:A:110:ARG:HE	1.61	0.65
1:A:1508:MET:HE1	1:A:1594:ASP:HB3	1.76	0.65
1:C:544:HIS:NE2	1:C:546:SER:O	2.29	0.65
1:C:678:VAL:HG23	1:C:698:ARG:NH1	2.10	0.65
1:C:1514:VAL:HG21	1:C:1565:THR:HG21	1.77	0.65
1:D:1856:PHE:N	1:D:1869:GLN:HE22	1.93	0.65
1:B:1021:TYR:HA	1:B:1024:VAL:HG12	1.79	0.65
1:E:1142:LEU:O	1:E:1146:HIS:ND1	2.25	0.65
1:F:1600:LEU:HA	1:F:1603:MET:HE2	1.78	0.65
1:G:50:VAL:HA	1:G:1104:ARG:CZ	2.25	0.65
1:G:345:VAL:O	1:G:347:GLN:NE2	2.29	0.65
1:G:1753:ARG:HD3	1:G:1876:LEU:HD21	1.77	0.65
1:G:1785:ARG:NH1	1:G:1785:ARG:O	2.29	0.65
1:A:754:GLU:HA	1:A:757:LEU:HD12	1.76	0.65
1:A:1879:ASP:HB2	1:A:1889:ILE:HD11	1.77	0.65
1:A:2006:ASN:OD1	1:A:2009:ARG:NH1	2.29	0.65
1:D:85:LEU:HD21	1:D:948:LEU:HD21	1.78	0.65
1:D:2015:GLN:O	1:D:2019:THR:N	2.29	0.65
1:B:719:PRO:HG2	1:B:721:ASP:H	1.61	0.65
1:E:1595:LEU:O	1:E:1598:THR:OG1	2.13	0.65
1:F:571:ALA:HB2	1:F:606:VAL:HG22	1.78	0.65
1:F:1593:PRO:HA	1:F:1596:ARG:HD3	1.78	0.65
1:G:585:ALA:O	1:G:600:ARG:NH2	2.29	0.65
1:G:589:ILE:O	1:G:599:THR:OG1	2.15	0.65
1:A:1546:THR:O	1:A:1550:GLN:HB2	1.96	0.65
1:C:657:THR:HG21	1:C:676:VAL:HG22	1.79	0.65
1:D:1392:VAL:O	1:D:1395:THR:OG1	2.12	0.65
1:D:1568:MET:HA	1:D:1578:LEU:HD11	1.79	0.65
1:B:1489:MET:HG3	1:B:1502:VAL:HG11	1.78	0.65
1:E:1008:VAL:HG22	1:E:1009:ASP:H	1.62	0.65
1:E:1856:PHE:CE1	1:E:1872:ARG:HB2	2.27	0.65
1:F:138:THR:O	1:F:141:THR:OG1	2.12	0.65
1:A:1938:VAL:HG12	1:A:2010:LEU:HD22	1.79	0.65
1:C:47:LEU:HG	1:C:1115:THR:HG23	1.78	0.65
1:C:663:GLN:OE1	1:C:666:ARG:NH2	2.29	0.65
1:C:832:LEU:HB3	1:C:933:PHE:CE1	2.31	0.65
1:B:105:LEU:H	1:B:110:ARG:HH21	1.45	0.65
1:B:269:LYS:HB2	1:B:495:GLN:HB2	1.79	0.65
1:B:393:PRO:HB2	1:B:462:GLN:HB3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1546:THR:O	1:B:1550:GLN:CB	2.44	0.65
1:E:806:GLU:O	1:E:810:HIS:ND1	2.30	0.65
1:E:1501:ARG:HH12	1:E:1670:GLU:C	2.04	0.65
1:F:238:PRO:HB3	1:F:1140:HIS:CD2	2.31	0.65
1:F:730:LEU:HD23	1:F:757:LEU:HD23	1.78	0.65
1:F:1016:LEU:O	1:F:1020:HIS:ND1	2.30	0.65
1:G:138:THR:O	1:G:141:THR:OG1	2.14	0.65
1:H:1711:ILE:O	1:H:1715:GLU:CB	2.41	0.65
1:H:1830:ASP:O	1:H:1834:LEU:CB	2.45	0.65
1:C:513:PRO:HA	1:C:530:LYS:HE2	1.78	0.65
1:C:1780:ALA:O	1:C:1784:HIS:ND1	2.29	0.65
1:D:656:PHE:N	1:D:677:SER:O	2.19	0.65
1:D:1099:LEU:HD11	1:D:1104:ARG:NH2	2.07	0.65
1:B:912:LEU:HA	1:B:915:GLN:HE21	1.61	0.65
1:F:1121:LEU:HD12	1:F:1132:HIS:HD2	1.62	0.65
1:G:1024:VAL:O	1:G:1028:LEU:HG	1.96	0.65
1:H:1168:LEU:HD13	1:H:1260:VAL:HG21	1.79	0.65
1:H:1535:TYR:HA	1:H:1538:GLU:HG2	1.79	0.65
1:A:1026:THR:OG1	1:D:758:ARG:NH1	2.30	0.65
1:A:1121:LEU:HA	1:A:1132:HIS:CD2	2.32	0.65
1:A:1543:ARG:HH21	1:A:1548:ALA:HB2	1.62	0.65
1:A:1687:LEU:HB3	1:A:1710:LEU:HD21	1.77	0.65
1:C:142:GLN:O	1:C:146:GLN:NE2	2.30	0.65
1:D:1714:LEU:O	1:D:1718:ARG:N	2.28	0.65
1:B:281:LEU:HB2	1:B:296:PHE:HB3	1.78	0.65
1:B:316:PRO:HA	1:B:595:CYS:HA	1.79	0.65
1:B:515:LEU:HD13	1:B:597:GLU:HG3	1.79	0.65
1:B:1493:PHE:HZ	1:B:1545:SER:HB3	1.62	0.65
1:E:457:THR:HA	1:E:495:GLN:HG3	1.79	0.65
1:H:463:GLU:OE2	1:H:490:ARG:NH1	2.30	0.65
1:A:1552:GLN:HA	1:A:1555:MET:SD	2.36	0.65
1:A:2014:LEU:HD23	1:A:2017:LEU:HD12	1.79	0.65
1:C:664:HIS:HB3	1:C:743:LEU:HA	1.78	0.65
1:C:1826:GLU:N	1:C:1851:LEU:O	2.27	0.65
1:D:539:GLU:HB2	1:D:770:GLU:HG2	1.78	0.65
1:D:676:VAL:O	1:D:700:VAL:N	2.24	0.65
1:D:835:TYR:O	1:D:839:ALA:N	2.29	0.65
1:F:85:LEU:HG	1:F:947:LEU:HD13	1.78	0.65
1:F:964:PHE:O	1:F:968:ILE:HD12	1.96	0.65
1:F:1507:THR:HG23	1:F:1558:LEU:HD21	1.77	0.65
1:H:573:ARG:HA	1:H:602:ALA:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1027:ARG:O	1:A:1030:SER:OG	2.15	0.65
1:A:1733:ALA:O	1:A:1737:ILE:HG12	1.97	0.65
1:C:539:GLU:HB2	1:C:770:GLU:HG2	1.79	0.65
1:C:994:ASN:HD21	1:C:1040:LEU:HD12	1.62	0.65
1:C:1392:VAL:O	1:C:1395:THR:OG1	2.11	0.65
1:D:392:MET:HE1	1:D:608:TYR:H	1.62	0.65
1:D:790:PRO:HB3	1:D:798:VAL:HB	1.78	0.65
1:D:1028:LEU:HD13	1:D:1038:LEU:HD11	1.78	0.65
1:B:1677:HIS:HA	1:B:1682:GLY:HA3	1.78	0.65
1:G:228:PRO:O	1:G:1262:LYS:NZ	2.30	0.65
1:G:551:LEU:HD21	1:G:623:LEU:HB2	1.78	0.65
1:G:1607:HIS:HB2	1:G:1616:ALA:HB2	1.79	0.65
1:H:1018:ARG:HA	1:H:1021:TYR:HD1	1.60	0.65
1:A:393:PRO:HB2	1:A:462:GLN:HB3	1.79	0.64
1:A:1272:TRP:O	1:A:1276:LEU:HB2	1.95	0.64
1:C:259:GLN:OE1	1:C:445:SER:OG	2.10	0.64
1:D:232:LEU:HG	1:D:1259:TRP:CD1	2.31	0.64
1:D:1045:THR:O	1:D:1048:LEU:HG	1.98	0.64
1:B:1866:LEU:HA	1:B:1869:GLN:HB3	1.77	0.64
1:E:1486:TYR:HA	1:E:1489:MET:SD	2.37	0.64
1:E:1656:GLU:OE2	1:E:1884:TYR:OH	2.08	0.64
1:G:743:LEU:HD12	1:G:746:THR:HB	1.77	0.64
1:G:1617:ALA:HB1	1:G:1694:PHE:CD2	2.32	0.64
1:G:1798:VAL:O	1:G:1818:ALA:N	2.28	0.64
1:H:235:TYR:OH	1:H:1248:GLU:OE2	2.15	0.64
1:D:390:TYR:O	1:D:391:ARG:NH1	2.30	0.64
1:D:580:GLU:OE2	1:D:686:SER:OG	2.13	0.64
1:B:747:VAL:O	1:B:752:ASN:ND2	2.31	0.64
1:F:723:TYR:HA	1:F:726:LYS:HD2	1.79	0.64
1:G:1029:GLN:OE1	1:G:1029:GLN:N	2.30	0.64
1:G:1178:ARG:NH1	1:G:1243:CYS:O	2.31	0.64
1:H:1008:VAL:HG22	1:H:1009:ASP:H	1.62	0.64
1:H:1954:LEU:HD21	1:H:1970:LEU:HB3	1.78	0.64
1:A:231:LEU:HB3	1:A:1259:TRP:CD1	2.33	0.64
1:C:628:THR:HA	1:C:662:LEU:HD22	1.78	0.64
1:D:85:LEU:HD11	1:D:947:LEU:HB3	1.79	0.64
1:B:982:ARG:HH12	1:B:985:LYS:HB2	1.62	0.64
1:E:916:TRP:CE3	1:E:971:LEU:HD21	2.32	0.64
1:F:1019:ALA:HA	1:F:1022:LYS:NZ	2.11	0.64
1:F:1518:GLN:O	1:F:1569:LYS:NZ	2.29	0.64
1:F:1549:GLU:OE2	1:F:1550:GLN:NE2	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:GLU:OE2	1:A:1010:ARG:NH2	2.30	0.64
1:A:1054:TYR:CZ	1:A:1109:LEU:HB3	2.32	0.64
1:A:1827:PRO:HB3	1:A:1847:LEU:HD13	1.78	0.64
1:A:1855:PRO:HD3	1:A:1871:LYS:HE3	1.80	0.64
1:C:90:ARG:NH1	1:C:118:GLU:O	2.31	0.64
1:C:715:SER:OG	1:C:718:HIS:ND1	2.24	0.64
1:C:777:HIS:O	1:C:780:LEU:HG	1.97	0.64
1:C:1510:LEU:HD22	1:C:1558:LEU:HD12	1.79	0.64
1:C:1684:VAL:HA	1:C:1687:LEU:HD12	1.79	0.64
1:C:1856:PHE:O	1:C:1869:GLN:NE2	2.30	0.64
1:D:962:GLY:HA2	1:D:965:LEU:HD12	1.79	0.64
1:E:1060:PRO:HB2	1:E:1160:ARG:HH11	1.62	0.64
1:E:1097:PHE:HZ	1:E:1268:LEU:HD12	1.62	0.64
1:E:1720:TYR:HA	1:E:1723:LEU:HB2	1.80	0.64
1:E:1942:VAL:HG12	1:E:1944:GLN:H	1.61	0.64
1:F:969:THR:HG22	1:F:1016:LEU:HD21	1.80	0.64
1:F:1738:MET:SD	1:F:1739:HIS:ND1	2.71	0.64
1:H:244:VAL:HG12	1:H:1047:ILE:HG12	1.78	0.64
1:H:666:ARG:HE	1:H:667:LEU:N	1.96	0.64
1:H:1154:GLU:OE1	1:H:1157:VAL:N	2.29	0.64
1:A:221:THR:O	1:A:225:GLN:NE2	2.22	0.64
1:A:1996:GLN:HG3	1:A:1999:TYR:HB3	1.79	0.64
1:C:778:HIS:O	1:C:782:LYS:NZ	2.28	0.64
1:C:1564:ASP:HA	1:C:1567:LYS:HE3	1.78	0.64
1:D:977:LEU:O	1:D:1027:ARG:NH1	2.23	0.64
1:B:1771:TYR:CE1	1:B:1888:ARG:HD3	2.32	0.64
1:E:90:ARG:HA	1:E:120:TRP:HE1	1.63	0.64
1:E:312:HIS:NE2	1:E:386:ARG:O	2.30	0.64
1:E:1607:HIS:HB2	1:E:1616:ALA:HB2	1.79	0.64
1:G:977:LEU:O	1:G:1027:ARG:NH1	2.26	0.64
1:G:1771:TYR:OH	1:G:1888:ARG:NH1	2.29	0.64
1:H:1486:TYR:HA	1:H:1489:MET:SD	2.37	0.64
1:H:1526:ARG:HG3	1:H:1559:HIS:HE1	1.62	0.64
1:H:1919:ALA:HB1	1:H:1930:LEU:HA	1.77	0.64
1:A:1038:LEU:HD23	1:A:1041:ARG:HD2	1.80	0.64
1:A:1137:SER:O	1:A:1140:HIS:HB3	1.98	0.64
1:C:1587:ARG:HH12	1:C:1657:GLU:HA	1.60	0.64
1:D:1038:LEU:HA	1:D:1041:ARG:HB3	1.80	0.64
1:E:1171:ILE:O	1:E:1175:THR:HG23	1.97	0.64
1:E:1764:LEU:O	1:E:1767:GLN:HG2	1.97	0.64
1:F:991:GLU:OE2	1:F:992:HIS:ND1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:120:TRP:HZ3	1:G:839:ALA:HB2	1.62	0.64
1:A:83:LEU:HA	1:A:124:HIS:O	1.98	0.64
1:A:121:VAL:N	1:A:838:TYR:O	2.28	0.64
1:A:1711:ILE:O	1:A:1715:GLU:HB2	1.98	0.64
1:C:554:TYR:HE1	1:C:618:GLU:HA	1.63	0.64
1:C:1140:HIS:ND1	1:C:1256:CYS:SG	2.59	0.64
1:C:1246:SER:O	1:C:1249:SER:OG	2.13	0.64
1:D:400:HIS:CE1	1:D:402:ALA:HB3	2.32	0.64
1:D:698:ARG:HH12	1:D:700:VAL:HG23	1.61	0.64
1:D:1937:SER:HB3	1:D:1977:PHE:HZ	1.63	0.64
1:B:1015:SER:O	1:B:1018:ARG:NH1	2.31	0.64
1:B:1740:GLN:HG2	1:B:1746:ARG:HD3	1.80	0.64
1:E:259:GLN:HG2	1:E:329:VAL:O	1.98	0.64
1:E:1800:GLU:HB3	1:E:1819:TYR:HA	1.78	0.64
1:G:1403:VAL:O	1:G:1409:ARG:NH1	2.30	0.64
1:G:1693:TYR:HA	1:G:1696:MET:HG2	1.80	0.64
1:A:261:ILE:O	1:A:326:ILE:HA	1.97	0.64
1:A:334:PRO:O	1:A:400:HIS:NE2	2.31	0.64
1:A:927:ILE:O	1:A:931:ALA:CB	2.46	0.64
1:A:1598:THR:O	1:A:1602:ASN:ND2	2.31	0.64
1:C:393:PRO:HD3	1:C:466:ARG:NH2	2.12	0.64
1:C:781:ASP:HB2	1:C:782:LYS:HZ2	1.62	0.64
1:C:1058:ASN:O	1:C:1107:HIS:ND1	2.31	0.64
1:C:1104:ARG:HH11	1:C:1111:GLY:HA3	1.62	0.64
1:D:1020:HIS:CE1	1:D:1041:ARG:HH22	2.16	0.64
1:D:1671:GLY:O	1:D:1674:SER:N	2.30	0.64
1:D:1710:LEU:HA	1:D:1713:ILE:HD12	1.78	0.64
1:B:388:GLY:O	1:B:391:ARG:NH1	2.29	0.64
1:B:632:HIS:CD2	1:B:658:TRP:HB2	2.32	0.64
1:B:1999:TYR:O	1:B:2002:GLU:HG3	1.96	0.64
1:G:1593:PRO:HA	1:G:1596:ARG:NE	2.13	0.64
1:H:916:TRP:NE1	1:H:927:ILE:HD13	2.13	0.64
1:H:972:VAL:HA	1:H:975:VAL:HG12	1.80	0.64
1:H:1297:TYR:HE1	1:H:1381:GLU:HG3	1.61	0.64
1:A:663:GLN:HB2	1:A:668:ARG:HH12	1.62	0.64
1:C:143:ARG:NE	1:C:147:LYS:HZ3	1.94	0.64
1:C:513:PRO:HG3	1:C:531:GLU:HG2	1.78	0.64
1:D:286:VAL:N	1:D:335:ASP:O	2.31	0.64
1:B:151:ARG:HH22	1:B:158:ALA:HB2	1.62	0.64
1:B:1025:ALA:HA	1:B:1028:LEU:HD23	1.78	0.64
1:B:1758:GLY:N	1:B:1765:ASP:OD1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:238:PRO:HB3	1:G:1140:HIS:CD2	2.33	0.64
1:H:404:ILE:HG23	1:H:452:ALA:HB3	1.79	0.64
1:A:1012:PHE:O	1:A:1015:SER:OG	2.12	0.64
1:B:1437:LEU:O	1:B:1440:GLN:NE2	2.29	0.64
1:E:1168:LEU:HD13	1:E:1260:VAL:HG21	1.80	0.64
1:E:1691:ALA:HA	1:E:1694:PHE:CD1	2.33	0.64
1:E:1968:ASN:HA	1:E:1971:ARG:NE	2.12	0.64
1:G:1409:ARG:O	1:G:1413:LEU:HG	1.97	0.64
1:H:916:TRP:HE1	1:H:927:ILE:HD13	1.61	0.64
1:H:1607:HIS:HB2	1:H:1616:ALA:HB2	1.79	0.64
1:A:51:VAL:HG21	1:A:1105:GLN:HG3	1.79	0.63
1:A:108:GLN:HG3	1:A:732:HIS:HD2	1.63	0.63
1:A:286:VAL:N	1:A:335:ASP:O	2.31	0.63
1:A:1258:LEU:HD13	1:A:1261:LEU:HD12	1.80	0.63
1:A:1728:GLY:HA2	1:A:1731:GLN:HG2	1.80	0.63
1:C:1387:GLU:HA	1:C:1390:LEU:HD12	1.79	0.63
1:C:1735:THR:HA	1:C:1738:MET:HE3	1.78	0.63
1:D:404:ILE:HG23	1:D:408:ALA:HB3	1.80	0.63
1:B:514:GLU:OE2	1:B:548:ARG:NH1	2.31	0.63
1:E:698:ARG:NH1	1:E:699:TRP:O	2.31	0.63
1:F:1043:GLU:OE2	1:F:1134:LYS:NZ	2.31	0.63
1:A:206:LEU:HD11	1:A:1483:ALA:HB1	1.80	0.63
1:A:1503:LYS:HZ3	1:A:1554:LEU:HB2	1.63	0.63
1:A:1572:GLN:HA	1:A:1578:LEU:HD22	1.79	0.63
1:D:86:LEU:HD12	1:D:88:GLN:HE22	1.62	0.63
1:D:231:LEU:HB3	1:D:1259:TRP:HD1	1.62	0.63
1:D:558:LEU:HD13	1:D:707:PHE:HB2	1.78	0.63
1:D:576:TYR:HD1	1:D:633:LEU:HD23	1.63	0.63
1:D:1911:LYS:HD2	1:D:1914:ARG:HH21	1.63	0.63
1:B:1128:ALA:HA	1:B:1131:LEU:HD23	1.80	0.63
1:B:1300:LYS:HE2	1:B:1378:ALA:HB2	1.80	0.63
1:B:1802:ILE:N	1:B:1820:ILE:O	2.26	0.63
1:F:550:LEU:HD11	1:F:552:TYR:HE2	1.64	0.63
1:F:781:ASP:OD1	1:F:835:TYR:OH	2.16	0.63
1:G:1121:LEU:HD12	1:G:1132:HIS:HD2	1.63	0.63
1:H:109:VAL:HG12	1:H:717:VAL:HG21	1.79	0.63
1:H:789:ARG:HB3	1:H:903:LEU:HD12	1.79	0.63
1:H:1243:CYS:SG	1:H:1244:ALA:N	2.71	0.63
1:H:1452:PHE:HA	1:H:1456:THR:HG22	1.79	0.63
1:A:573:ARG:HD3	1:A:638:TYR:HE1	1.62	0.63
1:A:1026:THR:O	1:A:1029:GLN:NE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1636:ASP:HA	1:C:1640:LEU:HD21	1.80	0.63
1:D:1503:LYS:NZ	1:D:1553:ASP:OD1	2.31	0.63
1:D:1848:ARG:O	1:D:1877:SER:HA	1.97	0.63
1:B:1710:LEU:HA	1:B:1713:ILE:HD12	1.80	0.63
1:B:1765:ASP:O	1:B:1767:GLN:NE2	2.29	0.63
1:F:344:LYS:O	1:F:392:MET:N	2.29	0.63
1:F:575:GLN:HE22	1:F:601:GLU:HG3	1.64	0.63
1:F:1785:ARG:NH1	1:F:1785:ARG:O	2.32	0.63
1:C:562:SER:OG	1:C:701:ASP:OD2	2.09	0.63
1:D:1387:GLU:HA	1:D:1390:LEU:HD12	1.81	0.63
1:D:1814:ASP:H	1:D:1819:TYR:HE2	1.46	0.63
1:B:344:LYS:HB2	1:B:392:MET:SD	2.38	0.63
1:B:533:LEU:HD13	1:B:548:ARG:HD3	1.81	0.63
1:B:2015:GLN:HA	1:B:2018:LEU:HB2	1.81	0.63
1:E:1618:GLN:HG3	1:E:1884:TYR:HA	1.80	0.63
1:F:546:SER:OG	1:F:548:ARG:NH2	2.32	0.63
1:F:559:ASN:HB3	1:F:706:VAL:HG11	1.79	0.63
1:G:261:ILE:HB	1:G:327:PHE:HB2	1.78	0.63
1:G:786:LEU:HD11	1:G:800:LEU:HD21	1.79	0.63
1:G:1090:ASP:HB3	1:G:1093:VAL:HG22	1.79	0.63
1:G:1744:TRP:CD1	1:G:1745:GLU:HG2	2.32	0.63
1:H:925:GLU:OE1	1:H:929:GLN:NE2	2.31	0.63
1:A:53:PRO:HA	1:A:1108:PHE:CZ	2.34	0.63
1:A:478:ASP:HB3	1:A:486:LEU:HD11	1.79	0.63
1:A:663:GLN:OE1	1:A:666:ARG:NH2	2.32	0.63
1:A:674:LEU:HB2	1:A:707:PHE:HD2	1.62	0.63
1:A:982:ARG:HH12	1:A:985:LYS:HB2	1.64	0.63
1:A:1054:TYR:HA	1:A:1057:LEU:HD12	1.81	0.63
1:A:1182:PHE:CG	1:A:1294:ALA:HA	2.34	0.63
1:C:1738:MET:HA	1:C:1741:SER:OG	1.98	0.63
1:D:93:ARG:HB3	1:D:518:ILE:HG23	1.81	0.63
1:D:1603:MET:HB3	1:D:1619:CYS:SG	2.39	0.63
1:B:131:SER:HA	1:B:1052:GLU:HB3	1.80	0.63
1:B:141:THR:HB	1:B:145:ARG:NH1	2.09	0.63
1:B:403:ASN:OD1	1:B:480:ARG:NH1	2.31	0.63
1:B:1162:ALA:HA	1:B:1165:TYR:HD2	1.62	0.63
1:B:1274:THR:HG22	1:B:1402:THR:HG23	1.79	0.63
1:B:1617:ALA:HB1	1:B:1694:PHE:CD1	2.34	0.63
1:B:1753:ARG:HD3	1:B:1876:LEU:HD11	1.79	0.63
1:E:555:PRO:HB3	1:E:707:PHE:HE1	1.62	0.63
1:F:203:LEU:HB3	1:F:206:LEU:HD23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1053:HIS:HB3	1:F:1056:THR:HB	1.81	0.63
1:G:1507:THR:HG22	1:G:1595:LEU:HD11	1.79	0.63
1:H:1425:GLY:O	1:H:1465:ARG:NH2	2.31	0.63
1:D:1564:ASP:O	1:D:1567:LYS:HG2	1.99	0.63
1:D:1604:ALA:HA	1:D:1616:ALA:HB1	1.80	0.63
1:E:63:ARG:HD2	1:E:1063:PRO:HD3	1.80	0.63
1:E:145:ARG:HH12	1:E:1148:THR:HA	1.64	0.63
1:E:789:ARG:HB3	1:E:903:LEU:HD12	1.80	0.63
1:E:1620:MET:HE3	1:E:1693:TYR:HD2	1.62	0.63
1:F:1297:TYR:HE1	1:F:1381:GLU:HG3	1.64	0.63
1:F:1496:GLY:O	1:F:1498:ASN:ND2	2.31	0.63
1:G:1053:HIS:HB3	1:G:1056:THR:HB	1.80	0.63
1:G:1443:LEU:HA	1:G:1446:LYS:HZ2	1.62	0.63
1:G:1954:LEU:HA	1:G:1967:HIS:CD2	2.33	0.63
1:A:345:VAL:HG22	1:A:391:ARG:CZ	2.29	0.63
1:A:445:SER:OG	1:A:446:PHE:N	2.30	0.63
1:A:568:ARG:HG2	1:A:611:LYS:HA	1.81	0.63
1:A:1711:ILE:O	1:A:1715:GLU:CB	2.47	0.63
1:D:742:ARG:O	1:D:743:LEU:HD22	1.99	0.63
1:D:776:SER:O	1:D:779:VAL:HG22	1.99	0.63
1:B:1284:LEU:O	1:B:1287:LEU:HB3	1.99	0.63
1:E:1855:PRO:HD3	1:E:1871:LYS:HE3	1.80	0.63
1:F:285:ASP:HB2	1:F:292:ILE:HD13	1.81	0.63
1:F:1741:SER:OG	1:G:1720:TYR:OH	2.13	0.63
1:G:1123:PRO:HG3	1:G:1178:ARG:HE	1.64	0.63
1:H:231:LEU:HD13	1:H:1259:TRP:HA	1.80	0.63
1:H:312:HIS:NE2	1:H:386:ARG:O	2.32	0.63
1:A:388:GLY:O	1:A:391:ARG:NH1	2.27	0.63
1:A:925:GLU:HA	1:A:928:LEU:HD12	1.81	0.63
1:A:1130:LEU:HA	1:A:1133:LYS:HG3	1.79	0.63
1:C:927:ILE:HA	1:C:931:ALA:HB2	1.79	0.63
1:C:1139:VAL:O	1:C:1142:LEU:HB3	1.99	0.63
1:C:1142:LEU:O	1:C:1146:HIS:ND1	2.26	0.63
1:D:1489:MET:HG3	1:D:1502:VAL:HG11	1.81	0.63
1:B:466:ARG:HB3	1:B:614:GLU:HB2	1.80	0.63
1:E:972:VAL:HA	1:E:975:VAL:HG12	1.81	0.63
1:E:1856:PHE:O	1:E:1869:GLN:NE2	2.32	0.63
1:E:1922:GLN:NE2	1:E:1929:MET:SD	2.72	0.63
1:F:1179:LEU:HA	1:F:1245:LEU:HD13	1.81	0.63
1:F:1837:ARG:HB3	1:F:1842:ASP:HB3	1.81	0.63
1:F:1912:LYS:HE3	1:F:1946:PRO:HG2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1254:LEU:HD13	1:G:1291:CYS:HA	1.80	0.63
1:H:990:ALA:O	1:H:994:ASN:ND2	2.31	0.63
1:A:1099:LEU:HA	1:A:1103:PHE:HD2	1.64	0.63
1:A:1374:MET:HE1	1:C:488:ARG:HD3	1.81	0.63
1:A:1604:ALA:HB2	1:A:1620:MET:HE3	1.79	0.63
1:D:634:LEU:HA	1:D:658:TRP:HA	1.81	0.63
1:D:1500:ALA:HA	1:D:1503:LYS:HG2	1.81	0.63
1:D:1598:THR:O	1:D:1602:ASN:ND2	2.30	0.63
1:D:1937:SER:HB3	1:D:1977:PHE:CZ	2.33	0.63
1:B:277:ILE:HG12	1:B:344:LYS:HD2	1.81	0.63
1:B:811:VAL:O	1:B:814:LEU:HG	1.99	0.63
1:B:1049:CYS:SG	1:B:1113:LEU:HD11	2.39	0.63
1:B:1800:GLU:HB3	1:B:1819:TYR:HA	1.80	0.63
1:F:1451:LEU:HB3	1:F:1459:CYS:HB2	1.81	0.63
1:G:1906:ILE:HG22	1:G:1970:LEU:HD13	1.79	0.63
1:H:1501:ARG:HH12	1:H:1670:GLU:C	2.06	0.63
1:A:993:LEU:O	1:A:996:SER:OG	2.16	0.62
1:C:231:LEU:HB3	1:C:1259:TRP:HD1	1.64	0.62
1:C:912:LEU:HD23	1:C:938:MET:HE3	1.80	0.62
1:E:1830:ASP:O	1:E:1834:LEU:CB	2.46	0.62
1:H:936:GLN:HA	1:H:939:VAL:HG22	1.81	0.62
1:A:343:GLU:OE1	1:A:616:TYR:OH	2.16	0.62
1:C:240:GLU:OE1	1:C:246:ARG:NH2	2.21	0.62
1:D:342:LEU:N	1:D:395:ALA:O	2.31	0.62
1:D:912:LEU:O	1:D:915:GLN:NE2	2.32	0.62
1:D:1492:ASN:O	1:D:1497:HIS:N	2.23	0.62
1:B:944:LEU:HA	1:B:947:LEU:HB2	1.79	0.62
1:B:1054:TYR:HA	1:B:1057:LEU:HD12	1.81	0.62
1:B:1389:SER:HB2	1:B:1432:PHE:CZ	2.34	0.62
1:F:1616:ALA:O	1:F:1620:MET:HG2	1.99	0.62
1:G:508:HIS:HA	1:G:520:PRO:HD2	1.80	0.62
1:G:1121:LEU:HA	1:G:1132:HIS:CD2	2.33	0.62
1:G:1837:ARG:NH1	1:G:1845:TYR:O	2.32	0.62
1:C:92:CYS:HG	1:C:94:THR:HG1	1.47	0.62
1:C:396:TRP:HZ3	1:C:476:LEU:HD21	1.63	0.62
1:C:912:LEU:HD23	1:C:938:MET:HB3	1.82	0.62
1:C:993:LEU:O	1:C:996:SER:OG	2.12	0.62
1:C:1012:PHE:O	1:C:1015:SER:OG	2.15	0.62
1:D:461:LYS:HZ1	1:D:463:GLU:HA	1.64	0.62
1:B:1033:ASN:OD1	1:B:1036:ALA:N	2.27	0.62
1:B:1711:ILE:HG13	1:B:1712:PRO:CD	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:396:TRP:CD1	1:E:462:GLN:HG3	2.34	0.62
1:E:1916:LEU:HD23	1:E:1980:LYS:HB3	1.81	0.62
1:F:141:THR:HB	1:F:145:ARG:HH12	1.63	0.62
1:G:263:VAL:HG12	1:G:500:ILE:HA	1.80	0.62
1:H:1008:VAL:O	1:H:1010:ARG:NH1	2.32	0.62
1:H:1855:PRO:HD3	1:H:1871:LYS:HE3	1.80	0.62
1:A:698:ARG:HG2	1:A:699:TRP:N	2.13	0.62
1:A:1392:VAL:O	1:A:1395:THR:OG1	2.13	0.62
1:A:1463:CYS:HA	1:A:1466:LEU:HD12	1.81	0.62
1:A:1498:ASN:OD1	1:A:1501:ARG:NH1	2.31	0.62
1:D:927:ILE:O	1:D:931:ALA:CB	2.48	0.62
1:D:1761:PHE:HB3	1:D:1764:LEU:HB2	1.82	0.62
1:B:1026:THR:O	1:B:1029:GLN:NE2	2.32	0.62
1:B:1292:LEU:HA	1:B:1295:PHE:HB2	1.81	0.62
1:B:1292:LEU:HD13	1:B:1295:PHE:HB2	1.81	0.62
1:B:1931:GLN:HB3	1:B:1999:TYR:HE2	1.64	0.62
1:E:480:ARG:HB2	1:E:481:ARG:HH11	1.65	0.62
1:F:656:PHE:O	1:F:677:SER:N	2.31	0.62
1:F:1903:GLU:HA	1:F:1906:ILE:HD12	1.79	0.62
1:G:1687:LEU:HB3	1:G:1710:LEU:HD21	1.81	0.62
1:A:986:ASP:OD1	1:A:987:VAL:N	2.31	0.62
1:A:1734:PHE:CZ	1:B:1720:TYR:HB2	2.34	0.62
1:A:1761:PHE:CZ	1:A:1818:ALA:HB1	2.35	0.62
1:D:1437:LEU:HD23	1:D:1441:ARG:HE	1.64	0.62
1:B:590:PHE:O	1:B:592:LYS:NZ	2.33	0.62
1:B:1557:ASN:O	1:B:1561:ILE:HG12	2.00	0.62
1:B:2014:LEU:HD23	1:B:2017:LEU:HD12	1.81	0.62
1:G:688:LEU:HD12	1:G:694:LEU:HD21	1.81	0.62
1:G:1034:PRO:HA	1:G:1037:LEU:HB2	1.79	0.62
1:G:1595:LEU:HD12	1:G:1599:TRP:CZ3	2.35	0.62
1:A:514:GLU:OE2	1:A:548:ARG:NH1	2.32	0.62
1:A:1139:VAL:O	1:A:1142:LEU:HB3	2.00	0.62
1:A:1409:ARG:HD2	1:A:1413:LEU:HG	1.81	0.62
1:C:280:ILE:HD12	1:C:295:ASN:HB3	1.81	0.62
1:C:1752:PHE:O	1:C:1770:VAL:HA	1.99	0.62
1:D:994:ASN:HD21	1:D:1040:LEU:HD12	1.63	0.62
1:B:312:HIS:HB3	1:B:389:ARG:HB2	1.81	0.62
1:B:1856:PHE:HZ	1:B:1898:VAL:HG13	1.64	0.62
1:F:1130:LEU:HA	1:F:1133:LYS:HE2	1.80	0.62
1:H:1779:LEU:HD11	1:H:1823:THR:HA	1.80	0.62
1:A:261:ILE:HG12	1:A:446:PHE:CE1	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1999:TYR:O	1:A:2002:GLU:HG3	2.00	0.62
1:C:1425:GLY:HA3	1:C:1465:ARG:NH1	2.13	0.62
1:C:1663:ASP:H	1:E:1835:LYS:HZ2	1.46	0.62
1:C:1671:GLY:O	1:C:1674:SER:N	2.33	0.62
1:B:1543:ARG:HH21	1:B:1548:ALA:HB2	1.64	0.62
1:B:1856:PHE:CE1	1:B:1872:ARG:HB3	2.35	0.62
1:E:1243:CYS:SG	1:E:1244:ALA:N	2.69	0.62
1:E:1279:PRO:HB2	1:E:1283:ARG:HH12	1.65	0.62
1:E:1431:LEU:O	1:E:1435:HIS:ND1	2.33	0.62
1:F:1837:ARG:NH1	1:F:1845:TYR:O	2.32	0.62
1:A:521:TYR:HE2	1:A:524:PRO:HA	1.64	0.62
1:A:836:VAL:HA	1:A:840:PHE:HB2	1.82	0.62
1:A:1162:ALA:HA	1:A:1165:TYR:HD2	1.65	0.62
1:A:1169:LEU:HD21	1:A:1261:LEU:HD21	1.81	0.62
1:A:1750:THR:HB	1:A:1824:TYR:HE1	1.65	0.62
1:C:1892:CYS:HA	1:E:1893:HIS:HE1	1.62	0.62
1:B:945:HIS:ND1	1:B:946:LEU:HD12	2.14	0.62
1:B:1270:GLN:O	1:B:1274:THR:HG23	1.99	0.62
1:E:1154:GLU:OE1	1:E:1157:VAL:N	2.27	0.62
1:E:1919:ALA:HB1	1:E:1930:LEU:HA	1.80	0.62
1:F:817:ARG:NH2	1:F:929:GLN:OE1	2.33	0.62
1:G:63:ARG:NE	1:G:1061:CYS:O	2.33	0.62
1:G:786:LEU:HD23	1:G:804:ALA:HB2	1.82	0.62
1:A:390:TYR:OH	1:A:651:GLU:OE1	2.17	0.62
1:A:912:LEU:HD21	1:A:938:MET:HE3	1.82	0.62
1:C:1444:VAL:HB	1:C:1448:PRO:HB3	1.81	0.62
1:D:1034:PRO:HA	1:D:1037:LEU:HD13	1.81	0.62
1:D:1058:ASN:OD1	1:D:1109:LEU:HB2	1.99	0.62
1:D:1826:GLU:O	1:D:1851:LEU:N	2.29	0.62
1:B:912:LEU:HD21	1:B:938:MET:HE3	1.80	0.62
1:E:1016:LEU:O	1:E:1020:HIS:ND1	2.33	0.62
1:E:1633:LEU:HD22	1:E:1665:LEU:HD11	1.81	0.62
1:H:1016:LEU:O	1:H:1020:HIS:ND1	2.32	0.62
1:H:1420:VAL:O	1:H:1423:SER:OG	2.16	0.62
1:H:1938:VAL:HB	1:H:2006:ASN:HB3	1.81	0.62
1:A:947:LEU:O	1:A:950:GLN:NE2	2.33	0.62
1:A:961:PRO:HB3	1:A:963:ARG:CZ	2.30	0.62
1:A:1041:ARG:O	1:A:1045:THR:HG23	2.00	0.62
1:B:301:ASN:HB3	1:B:305:MET:HB2	1.81	0.62
1:E:656:PHE:N	1:E:677:SER:O	2.31	0.62
1:F:1503:LYS:HD2	1:F:1554:LEU:HD22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1798:VAL:O	1:F:1818:ALA:N	2.29	0.62
1:G:979:VAL:HG21	1:G:994:ASN:OD1	2.00	0.62
1:A:85:LEU:HD11	1:A:947:LEU:HB3	1.81	0.61
1:A:1129:PHE:CE2	1:A:1130:LEU:HG	2.34	0.61
1:A:1587:ARG:NH2	1:A:1657:GLU:OE1	2.21	0.61
1:C:767:ALA:HB3	1:C:772:LEU:HD11	1.82	0.61
1:C:797:ILE:HG13	1:C:902:ILE:HD13	1.81	0.61
1:D:544:HIS:O	1:D:777:HIS:NE2	2.33	0.61
1:B:581:ASP:HB3	1:B:584:GLN:HG2	1.80	0.61
1:B:655:GLY:HA2	1:B:678:VAL:HA	1.81	0.61
1:B:920:SER:OG	1:B:923:VAL:N	2.21	0.61
1:B:1572:GLN:HA	1:B:1578:LEU:HD22	1.82	0.61
1:E:109:VAL:HG12	1:E:717:VAL:HG21	1.82	0.61
1:E:1394:ASP:O	1:E:1398:ILE:HG12	1.99	0.61
1:E:1727:HIS:C	1:E:1731:GLN:HE22	2.05	0.61
1:F:262:LEU:N	1:F:501:SER:O	2.31	0.61
1:F:1731:GLN:HG3	1:G:1731:GLN:HG3	1.81	0.61
1:H:63:ARG:HD2	1:H:1063:PRO:HD3	1.82	0.61
1:H:1686:LEU:O	1:H:1689:GLN:NE2	2.33	0.61
1:H:1729:LYS:HA	1:H:1732:GLU:HG3	1.81	0.61
1:C:400:HIS:CE1	1:C:402:ALA:HB3	2.34	0.61
1:C:1045:THR:O	1:C:1048:LEU:HG	1.99	0.61
1:F:1410:GLU:HG2	1:F:1411:SER:H	1.65	0.61
1:G:269:LYS:HB2	1:G:495:GLN:HB2	1.82	0.61
1:H:108:GLN:HG3	1:H:732:HIS:HD2	1.65	0.61
1:H:782:LYS:HG3	1:H:785:ARG:HH12	1.65	0.61
1:A:466:ARG:HH12	1:A:605:PRO:HB2	1.65	0.61
1:A:558:LEU:HD23	1:A:613:PRO:HG2	1.82	0.61
1:A:909:HIS:HB2	1:A:964:PHE:HE1	1.65	0.61
1:A:1105:GLN:HA	1:A:1108:PHE:CE2	2.36	0.61
1:C:549:ASN:ND2	1:C:623:LEU:HB3	2.15	0.61
1:C:623:LEU:HD11	1:C:627:VAL:HG22	1.83	0.61
1:D:105:LEU:HD12	1:D:110:ARG:HE	1.64	0.61
1:D:268:LEU:HB2	1:D:300:LEU:HD13	1.82	0.61
1:B:345:VAL:HG22	1:B:391:ARG:CZ	2.31	0.61
1:B:1503:LYS:HZ3	1:B:1554:LEU:HB2	1.66	0.61
1:E:920:SER:HB2	1:G:978:GLU:HG2	1.82	0.61
1:E:979:VAL:HG23	1:E:982:ARG:HH12	1.64	0.61
1:E:1539:ASP:HB3	1:E:1543:ARG:HH12	1.65	0.61
1:E:1754:VAL:HG22	1:E:1822:ILE:HG23	1.81	0.61
1:F:59:VAL:HG11	1:F:1059:LEU:HD21	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:82:ASP:O	1:F:125:ARG:HA	1.99	0.61
1:G:1772:LYS:HZ1	1:G:1884:TYR:H	1.47	0.61
1:H:386:ARG:NH2	1:H:643:GLN:O	2.33	0.61
1:H:555:PRO:HB3	1:H:707:PHE:HE1	1.65	0.61
1:H:768:SER:OG	1:H:770:GLU:OE1	2.13	0.61
1:H:1468:ARG:NH1	1:H:1517:THR:OG1	2.32	0.61
1:C:742:ARG:O	1:C:743:LEU:HD22	2.00	0.61
1:D:1179:LEU:HA	1:D:1245:LEU:HB2	1.83	0.61
1:D:1248:GLU:HA	1:D:1251:ARG:HG2	1.82	0.61
1:E:328:SER:OG	1:E:531:GLU:OE1	2.18	0.61
1:E:1656:GLU:OE1	1:E:1880:HIS:NE2	2.33	0.61
1:F:1909:MET:HA	1:F:1912:LYS:HG2	1.81	0.61
1:H:1021:TYR:HD2	1:H:1041:ARG:NH1	1.97	0.61
1:H:1431:LEU:O	1:H:1435:HIS:ND1	2.33	0.61
1:A:299:ASP:OD1	1:A:301:ASN:ND2	2.34	0.61
1:C:293:SER:HA	1:C:534:GLU:HA	1.82	0.61
1:C:717:VAL:HB	1:C:718:HIS:CE1	2.35	0.61
1:C:1714:LEU:HD23	1:C:1717:HIS:CD2	2.35	0.61
1:D:479:MET:HA	1:D:486:LEU:HD11	1.80	0.61
1:D:1425:GLY:HA3	1:D:1465:ARG:HH11	1.66	0.61
1:D:1450:LEU:HA	1:D:1453:GLU:HG3	1.81	0.61
1:B:991:GLU:OE2	1:B:992:HIS:ND1	2.33	0.61
1:E:783:LEU:HD13	1:E:808:MET:HB3	1.81	0.61
1:F:588:VAL:HB	1:F:622:HIS:HB3	1.81	0.61
1:F:698:ARG:NH1	1:F:699:TRP:O	2.34	0.61
1:H:916:TRP:NE1	1:H:927:ILE:HG21	2.15	0.61
1:H:1168:LEU:HD21	1:H:1257:VAL:HG22	1.81	0.61
1:H:1753:ARG:HH12	1:H:1821:GLN:HG3	1.64	0.61
1:A:919:SER:HG	1:A:924:ARG:N	1.98	0.61
1:A:1874:THR:HG23	1:A:1896:GLU:HG2	1.82	0.61
1:C:1715:GLU:OE2	1:C:1718:ARG:NH2	2.33	0.61
1:C:1749:GLY:HA3	1:C:1772:LYS:HE2	1.83	0.61
1:B:1038:LEU:HD23	1:B:1041:ARG:HD2	1.82	0.61
1:B:1412:VAL:O	1:B:1416:VAL:HG23	2.00	0.61
1:F:294:GLU:HB2	1:F:532:ILE:HG23	1.82	0.61
1:F:1590:GLN:HA	1:F:1596:ARG:HD2	1.81	0.61
1:G:206:LEU:HD12	1:G:1487:LEU:HD11	1.81	0.61
1:H:286:VAL:HG21	1:H:480:ARG:HH12	1.64	0.61
1:H:1394:ASP:O	1:H:1398:ILE:HG12	2.00	0.61
1:H:1712:PRO:HA	1:H:1715:GLU:HB3	1.83	0.61
1:A:811:VAL:O	1:A:815:VAL:HG13	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1500:ALA:HA	1:C:1503:LYS:HG2	1.83	0.61
1:C:1909:MET:SD	1:C:1970:LEU:HD11	2.41	0.61
1:D:1108:PHE:O	1:D:1112:LEU:HG	2.00	0.61
1:D:1879:ASP:OD2	1:D:1890:ARG:HB3	2.01	0.61
1:E:768:SER:OG	1:E:770:GLU:OE1	2.13	0.61
1:E:1870:HIS:CD2	1:E:1900:THR:HA	2.35	0.61
1:F:741:PHE:HB2	1:F:748:LEU:HB2	1.83	0.61
1:F:1054:TYR:O	1:F:1058:ASN:ND2	2.33	0.61
1:G:125:ARG:NH1	1:G:1003:ASP:OD1	2.34	0.61
1:A:1178:ARG:HG2	1:A:1245:LEU:HD12	1.83	0.61
1:A:1546:THR:O	1:A:1550:GLN:HB3	1.99	0.61
1:C:1422:TYR:HA	1:C:1465:ARG:NH1	2.15	0.61
1:C:1530:LYS:HD3	1:C:1533:LEU:HD22	1.83	0.61
1:D:999:PHE:O	1:D:1002:SER:OG	2.18	0.61
1:D:1893:HIS:HE2	1:H:1892:CYS:HA	1.64	0.61
1:B:51:VAL:HG12	1:B:1104:ARG:HD2	1.82	0.61
1:B:576:TYR:HE2	1:B:586:LEU:HD12	1.66	0.61
1:E:1472:SER:O	1:E:1478:ARG:NH1	2.28	0.61
1:G:139:THR:HA	1:G:142:GLN:HG2	1.81	0.61
1:G:1136:ILE:HG22	1:G:1253:LEU:HD21	1.82	0.61
1:H:312:HIS:HB3	1:H:389:ARG:HB2	1.83	0.61
1:A:390:TYR:O	1:A:391:ARG:NH1	2.33	0.61
1:A:397:THR:HB	1:A:459:PHE:HA	1.82	0.61
1:A:1173:ARG:HA	1:A:1176:LEU:HD23	1.83	0.61
1:C:84:GLU:OE2	1:C:124:HIS:ND1	2.34	0.61
1:C:286:VAL:N	1:C:335:ASP:O	2.30	0.61
1:C:558:LEU:HD13	1:C:707:PHE:HB2	1.82	0.61
1:C:634:LEU:HA	1:C:658:TRP:HA	1.83	0.61
1:C:775:PHE:HA	1:C:777:HIS:CE1	2.36	0.61
1:C:1558:LEU:HA	1:C:1561:ILE:HD12	1.83	0.61
1:D:678:VAL:HG23	1:D:698:ARG:NH1	2.16	0.61
1:B:223:ARG:HH21	1:B:224:ARG:NH1	1.98	0.61
1:F:231:LEU:HD13	1:F:1262:LYS:HZ2	1.65	0.61
1:G:481:ARG:NH1	1:G:482:PRO:O	2.33	0.61
1:H:1500:ALA:HA	1:H:1503:LYS:HG2	1.83	0.61
1:H:1714:LEU:HD12	1:H:1717:HIS:ND1	2.15	0.61
1:A:1180:HIS:CE1	1:A:1182:PHE:HA	2.36	0.61
1:A:1982:GLU:HA	1:A:1985:LEU:HD12	1.82	0.61
1:C:290:LYS:HZ2	1:C:292:ILE:HA	1.66	0.61
1:D:1000:PHE:CE2	1:D:1004:LEU:HD11	2.36	0.61
1:E:1008:VAL:O	1:E:1010:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2015:GLN:O	1:E:2019:THR:OG1	2.16	0.61
1:G:656:PHE:O	1:G:677:SER:N	2.31	0.61
1:G:1437:LEU:HD13	1:G:1480:HIS:HB3	1.81	0.61
1:H:591:GLY:HA2	1:H:599:THR:HG23	1.82	0.61
1:H:1727:HIS:C	1:H:1731:GLN:HE22	2.09	0.61
1:A:979:VAL:HG21	1:A:994:ASN:HB3	1.83	0.60
1:A:1727:HIS:O	1:A:1731:GLN:NE2	2.15	0.60
1:C:589:ILE:HG21	1:C:602:ALA:HB2	1.83	0.60
1:C:1549:GLU:HA	1:C:1552:GLN:HG2	1.82	0.60
1:D:70:GLY:O	1:D:73:ARG:NH1	2.28	0.60
1:D:1435:HIS:O	1:D:1439:THR:OG1	2.13	0.60
1:B:659:ILE:HG13	1:B:674:LEU:HD11	1.81	0.60
1:B:1686:LEU:O	1:B:1689:GLN:NE2	2.32	0.60
1:E:94:THR:O	1:E:519:LYS:NZ	2.33	0.60
1:E:573:ARG:HA	1:E:602:ALA:O	2.01	0.60
1:E:823:GLN:HA	1:E:830:PRO:HD3	1.83	0.60
1:E:916:TRP:HE3	1:E:971:LEU:HD21	1.66	0.60
1:E:1285:LEU:HD21	1:E:1399:ILE:HD13	1.82	0.60
1:F:758:ARG:NH1	1:H:1026:THR:OG1	2.34	0.60
1:F:1954:LEU:HA	1:F:1967:HIS:CD2	2.35	0.60
1:G:1020:HIS:CD2	1:G:1041:ARG:HH12	2.19	0.60
1:G:1767:GLN:HE21	1:G:1890:ARG:HD3	1.66	0.60
1:H:1012:PHE:O	1:H:1015:SER:OG	2.16	0.60
1:H:1778:LYS:H	1:H:1781:GLU:CD	2.08	0.60
1:A:734:LEU:HD21	1:A:757:LEU:HD11	1.82	0.60
1:C:730:LEU:HB3	1:C:757:LEU:CD1	2.31	0.60
1:C:1153:ALA:O	1:C:1158:LYS:NZ	2.34	0.60
1:C:1633:LEU:HD13	1:C:1665:LEU:HD11	1.83	0.60
1:D:230:ALA:O	1:D:233:THR:OG1	2.16	0.60
1:D:1286:ASP:O	1:D:1289:TYR:HB3	2.01	0.60
1:B:125:ARG:HB2	1:B:128:GLN:HB2	1.83	0.60
1:B:568:ARG:HE	1:B:611:LYS:HE2	1.65	0.60
1:B:1169:LEU:HD21	1:B:1261:LEU:HD21	1.83	0.60
1:E:1176:LEU:HB2	1:E:1287:LEU:HD12	1.83	0.60
1:F:786:LEU:HD23	1:F:804:ALA:HB2	1.83	0.60
1:G:513:PRO:HA	1:G:530:LYS:HE2	1.83	0.60
1:G:637:PHE:HB2	1:G:655:GLY:HA3	1.81	0.60
1:H:396:TRP:HD1	1:H:462:GLN:HG3	1.65	0.60
1:H:541:TYR:CE1	1:H:818:SER:HB2	2.36	0.60
1:A:576:TYR:HE2	1:A:586:LEU:HD12	1.65	0.60
1:A:1246:SER:O	1:A:1249:SER:OG	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:139:THR:HA	1:C:142:GLN:HG2	1.82	0.60
1:C:755:GLN:HG3	1:C:758:ARG:NH2	2.16	0.60
1:C:1835:LYS:HZ3	1:E:1663:ASP:N	2.00	0.60
1:C:1850:PHE:O	1:C:1875:LEU:HA	2.01	0.60
1:C:1895:GLU:N	1:C:1895:GLU:OE1	2.34	0.60
1:D:812:VAL:HA	1:D:815:VAL:HG22	1.83	0.60
1:B:1490:ARG:HA	1:B:1547:PHE:HE1	1.65	0.60
1:E:556:HIS:HA	1:E:615:PHE:HB2	1.82	0.60
1:E:788:ILE:HG13	1:E:906:LYS:O	2.01	0.60
1:E:1018:ARG:HA	1:E:1021:TYR:HD1	1.67	0.60
1:G:456:VAL:N	1:G:496:LEU:O	2.28	0.60
1:G:1437:LEU:O	1:G:1441:ARG:HG3	2.01	0.60
1:A:563:ARG:HH22	1:A:567:VAL:HG11	1.67	0.60
1:A:931:ALA:HA	1:A:934:PHE:CD2	2.35	0.60
1:A:1015:SER:O	1:A:1018:ARG:NH1	2.34	0.60
1:A:1054:TYR:CE1	1:A:1109:LEU:HD23	2.36	0.60
1:B:550:LEU:HB3	1:B:552:TYR:CZ	2.37	0.60
1:B:1711:ILE:O	1:B:1715:GLU:CB	2.48	0.60
1:E:404:ILE:HG23	1:E:452:ALA:HB3	1.82	0.60
1:E:835:TYR:O	1:E:840:PHE:N	2.34	0.60
1:E:1012:PHE:O	1:E:1015:SER:OG	2.15	0.60
1:F:346:LEU:HD23	1:F:387:LEU:HB3	1.83	0.60
1:F:1487:LEU:O	1:F:1491:GLN:NE2	2.34	0.60
1:G:223:ARG:HB3	1:G:1390:LEU:HD11	1.83	0.60
1:G:391:ARG:HB2	1:G:605:PRO:HB3	1.84	0.60
1:H:788:ILE:HG13	1:H:906:LYS:O	2.01	0.60
1:A:322:ALA:HB2	1:A:528:PRO:HG2	1.81	0.60
1:A:674:LEU:HD22	1:A:690:PRO:HG2	1.82	0.60
1:A:1686:LEU:O	1:A:1689:GLN:NE2	2.32	0.60
1:A:1850:PHE:HB2	1:A:1876:LEU:HB2	1.81	0.60
1:D:139:THR:HA	1:D:142:GLN:HG2	1.83	0.60
1:D:143:ARG:NE	1:D:147:LYS:HZ3	1.98	0.60
1:D:730:LEU:HD23	1:D:757:LEU:HA	1.83	0.60
1:D:1590:GLN:NE2	1:D:1657:GLU:OE2	2.32	0.60
1:D:1935:GLN:OE1	1:D:1999:TYR:OH	2.19	0.60
1:B:1116:GLU:HA	1:B:1119:LEU:HG	1.81	0.60
1:B:2005:ARG:HD2	1:B:2009:ARG:HH12	1.66	0.60
1:E:301:ASN:HB2	1:E:306:LYS:HE3	1.83	0.60
1:F:120:TRP:CZ3	1:F:839:ALA:HB2	2.37	0.60
1:F:322:ALA:HA	1:F:528:PRO:HG2	1.83	0.60
1:F:1401:GLN:HA	1:F:1404:MET:HE1	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1437:LEU:HD13	1:F:1480:HIS:HB3	1.84	0.60
1:F:1847:LEU:HB3	1:F:1850:PHE:HE1	1.66	0.60
1:G:262:LEU:N	1:G:501:SER:O	2.35	0.60
1:G:390:TYR:OH	1:G:651:GLU:OE2	2.18	0.60
1:G:916:TRP:CE3	1:G:971:LEU:HD21	2.34	0.60
1:H:1099:LEU:HD11	1:H:1104:ARG:HB2	1.84	0.60
1:A:131:SER:HA	1:A:1052:GLU:HB3	1.82	0.60
1:A:283:LEU:HB3	1:A:336:ILE:HD11	1.83	0.60
1:A:783:LEU:CD2	1:A:808:MET:HE3	2.31	0.60
1:A:1698:GLY:HA2	1:A:1700:TYR:CZ	2.37	0.60
1:A:1716:ALA:O	1:A:1718:ARG:NH2	2.34	0.60
1:C:1393:LEU:HA	1:C:1396:LEU:HD12	1.83	0.60
1:C:1922:GLN:HB2	1:C:1925:PRO:HA	1.84	0.60
1:C:2012:GLU:HA	1:C:2015:GLN:HG2	1.84	0.60
1:C:2014:LEU:HD23	1:C:2017:LEU:HD12	1.84	0.60
1:D:1714:LEU:HD23	1:D:1717:HIS:CD2	2.36	0.60
1:D:2011:ARG:O	1:D:2015:GLN:HG2	2.01	0.60
1:B:108:GLN:HG3	1:B:732:HIS:HD2	1.67	0.60
1:B:259:GLN:OE1	1:B:445:SER:OG	2.15	0.60
1:B:343:GLU:OE1	1:B:616:TYR:OH	2.19	0.60
1:B:925:GLU:HA	1:B:928:LEU:HD12	1.83	0.60
1:E:390:TYR:OH	1:E:651:GLU:OE2	2.19	0.60
1:E:1099:LEU:HD11	1:E:1104:ARG:HB2	1.83	0.60
1:E:1425:GLY:HA2	1:E:1465:ARG:HE	1.66	0.60
1:F:342:LEU:N	1:F:395:ALA:O	2.30	0.60
1:F:1424:LEU:HD12	1:F:1433:LEU:HD23	1.82	0.60
1:G:222:LEU:HG	1:G:1435:HIS:CD2	2.36	0.60
1:G:1133:LYS:NZ	1:G:1137:SER:OG	2.35	0.60
1:G:1487:LEU:O	1:G:1491:GLN:NE2	2.34	0.60
1:H:656:PHE:N	1:H:677:SER:O	2.32	0.60
1:H:1055:VAL:HB	1:H:1160:ARG:HH12	1.67	0.60
1:A:1864:GLY:N	1:A:1869:GLN:OE1	2.35	0.60
1:C:758:ARG:NH1	1:B:1026:THR:OG1	2.34	0.60
1:D:408:ALA:O	1:D:450:ARG:N	2.34	0.60
1:D:835:TYR:CZ	1:D:840:PHE:HA	2.36	0.60
1:B:929:GLN:HA	1:B:989:LEU:HD11	1.83	0.60
1:B:1821:GLN:OE1	1:B:1823:THR:OG1	2.19	0.60
1:E:108:GLN:HG3	1:E:732:HIS:HD2	1.65	0.60
1:E:396:TRP:HD1	1:E:462:GLN:HG3	1.65	0.60
1:E:1738:MET:SD	1:H:1721:LYS:HD2	2.42	0.60
1:F:1788:GLU:HA	1:F:1791:THR:HB	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1426:SER:H	1:G:1428:GLN:HE22	1.50	0.60
1:H:88:GLN:HB2	1:H:120:TRP:HB2	1.82	0.60
1:H:1565:THR:HA	1:H:1568:MET:HG3	1.83	0.60
1:C:1608:ALA:HA	1:C:1613:HIS:CD2	2.37	0.60
1:D:90:ARG:HD3	1:D:118:GLU:O	2.01	0.60
1:D:280:ILE:HD12	1:D:295:ASN:HB3	1.84	0.60
1:D:717:VAL:HB	1:D:718:HIS:CE1	2.36	0.60
1:D:1603:MET:O	1:D:1607:HIS:ND1	2.34	0.60
1:D:1647:PHE:HA	1:D:1650:ILE:HD12	1.83	0.60
1:B:238:PRO:HB3	1:B:1140:HIS:CD2	2.37	0.60
1:E:1518:GLN:HA	1:E:1569:LYS:HZ3	1.67	0.60
1:E:1756:PHE:HB3	1:E:1761:PHE:CD2	2.37	0.60
1:G:1513:LEU:HD12	1:G:1517:THR:HB	1.84	0.60
1:G:1590:GLN:OE1	1:G:1596:ARG:NH1	2.33	0.60
1:H:589:ILE:HD13	1:H:602:ALA:HB2	1.84	0.60
1:H:1700:TYR:HB2	1:H:1737:ILE:HD11	1.84	0.60
1:H:1735:THR:O	1:H:1738:MET:HB2	2.01	0.60
1:C:231:LEU:HB3	1:C:1259:TRP:CD1	2.36	0.60
1:C:1258:LEU:HD13	1:C:1261:LEU:HD12	1.84	0.60
1:D:1539:ASP:HB3	1:D:1543:ARG:HH22	1.67	0.60
1:B:724:LEU:HD11	1:B:772:LEU:HD21	1.83	0.60
1:B:1734:PHE:CE2	1:B:1738:MET:HE1	2.37	0.60
1:B:1827:PRO:HB3	1:B:1847:LEU:HD13	1.82	0.60
1:E:259:GLN:HE22	1:E:332:PRO:HB3	1.66	0.60
1:F:140:ASP:O	1:F:143:ARG:HG2	2.00	0.60
1:F:632:HIS:CD2	1:F:658:TRP:HB2	2.37	0.60
1:F:1851:LEU:HD11	1:F:1873:LYS:HB3	1.84	0.60
1:G:560:PHE:CE1	1:G:700:VAL:HG11	2.37	0.60
1:G:563:ARG:HD2	1:G:700:VAL:HG13	1.82	0.60
1:H:1579:ILE:HD11	1:H:1606:LYS:HG2	1.84	0.60
1:A:109:VAL:HG12	1:A:717:VAL:HG21	1.84	0.60
1:C:1663:ASP:H	1:E:1835:LYS:NZ	2.00	0.60
1:D:755:GLN:HG3	1:D:758:ARG:HH21	1.66	0.60
1:D:1403:VAL:HG13	1:D:1406:SER:HB3	1.82	0.60
1:D:1549:GLU:OE1	1:D:1549:GLU:N	2.33	0.60
1:D:1908:ASP:OD1	1:D:1911:LYS:HE2	2.02	0.60
1:B:2002:GLU:HA	1:B:2005:ARG:HG2	1.84	0.60
1:F:632:HIS:NE2	1:F:634:LEU:HB2	2.17	0.60
1:F:1800:GLU:HB3	1:F:1819:TYR:HA	1.82	0.60
1:G:485:LEU:HA	1:G:488:ARG:HD3	1.82	0.60
1:G:727:PHE:HA	1:G:730:LEU:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1597:LEU:HA	1:G:1600:LEU:HD12	1.84	0.60
1:A:203:LEU:HB3	1:A:206:LEU:HD23	1.84	0.59
1:A:1064:LEU:HB2	1:A:1092:LYS:HG3	1.84	0.59
1:A:1636:ASP:HA	1:A:1640:LEU:HD21	1.84	0.59
1:A:1875:LEU:HB2	1:A:1895:GLU:HG2	1.84	0.59
1:C:780:LEU:HB2	1:C:808:MET:HE1	1.84	0.59
1:C:1051:HIS:CE1	1:C:1053:HIS:H	2.19	0.59
1:D:152:GLN:OE1	1:D:1383:ASN:ND2	2.35	0.59
1:B:1568:MET:HA	1:B:1578:LEU:HD11	1.83	0.59
1:E:281:LEU:HD22	1:E:338:LEU:HD11	1.84	0.59
1:E:731:VAL:HA	1:E:734:LEU:HD12	1.84	0.59
1:F:1913:THR:HG22	1:F:1977:PHE:HB2	1.84	0.59
1:G:231:LEU:HD23	1:G:1259:TRP:HA	1.83	0.59
1:G:1733:ALA:O	1:G:1737:ILE:HG12	2.02	0.59
1:H:235:TYR:OH	1:H:1251:ARG:NH2	2.35	0.59
1:H:335:ASP:OD1	1:H:480:ARG:NH2	2.35	0.59
1:H:916:TRP:CE3	1:H:971:LEU:HD21	2.36	0.59
1:H:1300:LYS:NZ	1:H:1377:GLU:OE1	2.35	0.59
1:H:1746:ARG:HH21	1:H:1748:PHE:HZ	1.47	0.59
1:A:1000:PHE:CE2	1:A:1004:LEU:HD11	2.37	0.59
1:C:141:THR:HB	1:C:145:ARG:NH1	2.15	0.59
1:C:538:ARG:NH2	1:C:539:GLU:OE2	2.34	0.59
1:C:841:ARG:HH21	1:C:843:PRO:HA	1.67	0.59
1:C:1005:LEU:HD22	1:C:1013:VAL:HG11	1.84	0.59
1:D:1041:ARG:O	1:D:1045:THR:HG23	2.02	0.59
1:D:1393:LEU:HA	1:D:1396:LEU:HD12	1.83	0.59
1:B:977:LEU:O	1:B:981:THR:OG1	2.11	0.59
1:B:1246:SER:O	1:B:1249:SER:OG	2.12	0.59
1:B:1879:ASP:OD2	1:B:1890:ARG:HB3	2.02	0.59
1:E:203:LEU:HD11	1:E:1479:THR:HB	1.84	0.59
1:H:94:THR:O	1:H:519:LYS:NZ	2.34	0.59
1:H:265:CYS:HB3	1:H:300:LEU:HD11	1.84	0.59
1:H:1733:ALA:O	1:H:1737:ILE:HG12	2.02	0.59
1:A:153:VAL:HG11	1:A:1474:ILE:HG13	1.83	0.59
1:A:841:ARG:HE	1:A:843:PRO:HA	1.68	0.59
1:A:912:LEU:HD12	1:A:915:GLN:NE2	2.17	0.59
1:A:944:LEU:HA	1:A:947:LEU:HD12	1.84	0.59
1:A:1010:ARG:HB3	1:A:1014:PHE:CE2	2.36	0.59
1:C:523:ASP:OD2	1:C:526:GLY:N	2.36	0.59
1:C:1146:HIS:HA	1:C:1149:ASP:OD2	2.03	0.59
1:C:1874:THR:HG23	1:C:1896:GLU:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1022:LYS:O	1:D:1026:THR:OG1	2.16	0.59
1:B:1790:TYR:HB3	1:B:1799:VAL:HG21	1.84	0.59
1:E:1630:TYR:CZ	1:E:1673:CYS:HB2	2.37	0.59
1:F:699:TRP:HB3	1:F:703:HIS:N	2.13	0.59
1:G:346:LEU:HD13	1:G:606:VAL:HB	1.83	0.59
1:G:1110:ALA:HB2	1:G:1164:LEU:HD13	1.83	0.59
1:G:1464:LEU:O	1:G:1468:ARG:HG2	2.03	0.59
1:G:1913:THR:HG22	1:G:1977:PHE:HB2	1.84	0.59
1:H:234:LEU:HB3	1:H:1384:LEU:HD12	1.83	0.59
1:A:264:LYS:HD3	1:A:323:ARG:HH12	1.68	0.59
1:A:490:ARG:HD3	1:A:490:ARG:H	1.66	0.59
1:A:772:LEU:O	1:A:776:SER:CB	2.39	0.59
1:A:1091:PRO:O	1:A:1095:SER:OG	2.19	0.59
1:A:1257:VAL:O	1:A:1261:LEU:HG	2.03	0.59
1:C:388:GLY:O	1:C:391:ARG:NH1	2.26	0.59
1:C:1846:GLY:HA2	1:C:1881:ALA:HB1	1.83	0.59
1:C:1938:VAL:HA	1:C:2010:LEU:HD22	1.85	0.59
1:D:931:ALA:O	1:D:934:PHE:N	2.35	0.59
1:B:579:GLY:HA2	1:B:630:ASN:HB2	1.84	0.59
1:B:678:VAL:HG23	1:B:698:ARG:HD2	1.84	0.59
1:B:761:LEU:HA	1:B:764:LEU:HD23	1.84	0.59
1:E:202:LEU:HD12	1:E:204:PRO:HD3	1.84	0.59
1:E:276:PRO:HG2	1:E:309:LEU:HG	1.84	0.59
1:F:343:GLU:HG3	1:F:393:PRO:HA	1.84	0.59
1:F:1128:ALA:HA	1:F:1131:LEU:HD23	1.84	0.59
1:F:1596:ARG:NH2	1:F:1657:GLU:OE2	2.35	0.59
1:G:1007:LEU:HD12	1:G:1008:VAL:HB	1.84	0.59
1:H:200:ASP:HB3	1:H:1479:THR:HG22	1.83	0.59
1:H:1413:LEU:HA	1:H:1416:VAL:HB	1.84	0.59
1:H:1870:HIS:CD2	1:H:1900:THR:HA	2.37	0.59
1:H:1903:GLU:HA	1:H:1906:ILE:HD12	1.83	0.59
1:A:1300:LYS:HE2	1:A:1378:ALA:HB2	1.85	0.59
1:A:1800:GLU:HB3	1:A:1819:TYR:HD1	1.68	0.59
1:A:1802:ILE:N	1:A:1820:ILE:O	2.31	0.59
1:C:912:LEU:HA	1:C:915:GLN:OE1	2.02	0.59
1:C:1034:PRO:HA	1:C:1037:LEU:HD13	1.84	0.59
1:B:231:LEU:HB3	1:B:1259:TRP:CD1	2.37	0.59
1:B:1054:TYR:CZ	1:B:1109:LEU:HB3	2.38	0.59
1:B:1407:GLU:OE1	1:B:1407:GLU:N	2.35	0.59
1:B:1546:THR:O	1:B:1550:GLN:HB2	2.02	0.59
1:E:1879:ASP:HB3	1:E:1889:ILE:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1266:PRO:O	1:F:1270:GLN:NE2	2.36	0.59
1:F:1268:LEU:HD13	1:F:1271:ARG:HD3	1.84	0.59
1:F:1717:HIS:C	1:F:1718:ARG:HD3	2.26	0.59
1:G:571:ALA:HB2	1:G:606:VAL:HG22	1.85	0.59
1:H:301:ASN:HB2	1:H:306:LYS:HE3	1.83	0.59
1:H:512:SER:OG	1:H:516:LEU:N	2.29	0.59
1:H:1491:GLN:HA	1:H:1494:GLU:OE1	2.02	0.59
1:H:1691:ALA:HA	1:H:1694:PHE:CD1	2.36	0.59
1:A:70:GLY:O	1:A:73:ARG:NH1	2.34	0.59
1:A:842:LEU:HD23	1:A:844:GLY:H	1.68	0.59
1:A:924:ARG:CZ	1:D:924:ARG:HD2	2.33	0.59
1:C:569:ASN:OD1	1:C:609:HIS:N	2.35	0.59
1:D:956:ARG:HA	1:D:959:ARG:HB2	1.84	0.59
1:B:259:GLN:HE21	1:B:329:VAL:HB	1.68	0.59
1:B:757:LEU:O	1:B:761:LEU:HG	2.03	0.59
1:B:1636:ASP:HA	1:B:1640:LEU:HD21	1.84	0.59
1:B:1769:PHE:HB3	1:B:1888:ARG:HB2	1.85	0.59
1:B:1856:PHE:O	1:B:1869:GLN:NE2	2.36	0.59
1:E:200:ASP:HB3	1:E:1479:THR:HG22	1.84	0.59
1:E:323:ARG:HE	1:E:527:ARG:HH11	1.51	0.59
1:E:539:GLU:HB2	1:E:770:GLU:HG2	1.84	0.59
1:F:299:ASP:OD1	1:F:301:ASN:ND2	2.36	0.59
1:F:1026:THR:O	1:F:1029:GLN:NE2	2.36	0.59
1:F:1753:ARG:NH1	1:F:1874:THR:HG21	2.18	0.59
1:G:1717:HIS:C	1:G:1718:ARG:HD3	2.28	0.59
1:G:1788:GLU:HA	1:G:1791:THR:HB	1.84	0.59
1:H:408:ALA:O	1:H:450:ARG:N	2.34	0.59
1:H:1580:ASP:O	1:H:1583:TYR:HB3	2.03	0.59
1:A:664:HIS:HB2	1:A:744:LYS:HD3	1.85	0.59
1:C:140:ASP:O	1:C:143:ARG:HG2	2.03	0.59
1:C:317:ALA:HB3	1:C:596:SER:HA	1.83	0.59
1:C:1768:GLU:HG2	1:C:1890:ARG:HH21	1.68	0.59
1:D:1963:LEU:HB3	1:D:1967:HIS:CE1	2.37	0.59
1:B:280:ILE:HG12	1:B:297:TYR:HA	1.83	0.59
1:B:344:LYS:HG2	1:B:394:PHE:CB	2.31	0.59
1:B:741:PHE:HB2	1:B:748:LEU:HD22	1.84	0.59
1:E:1710:LEU:HA	1:E:1713:ILE:HB	1.83	0.59
1:G:466:ARG:NH1	1:G:616:TYR:H	2.00	0.59
1:H:1539:ASP:HB3	1:H:1543:ARG:HH12	1.68	0.59
1:A:1004:LEU:C	1:A:1008:VAL:HG12	2.27	0.59
1:C:1965:ARG:HD3	1:E:1560:MET:HE2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:106:ASP:OD1	1:D:732:HIS:NE2	2.35	0.59
1:D:259:GLN:O	1:D:328:SER:HA	2.02	0.59
1:D:303:ASP:HA	1:D:306:LYS:HD2	1.84	0.59
1:D:538:ARG:NH2	1:D:539:GLU:OE2	2.34	0.59
1:D:794:SER:OG	1:D:796:GLN:OE1	2.15	0.59
1:B:139:THR:HA	1:B:142:GLN:HG2	1.83	0.59
1:B:569:ASN:HB3	1:B:642:CYS:SG	2.43	0.59
1:E:54:LEU:HD13	1:E:1105:GLN:HB3	1.85	0.59
1:E:479:MET:HE3	1:E:479:MET:O	2.03	0.59
1:E:556:HIS:HD1	1:E:615:PHE:C	2.10	0.59
1:E:1097:PHE:HD2	1:E:1272:TRP:HE3	1.51	0.59
1:F:92:CYS:SG	1:F:94:THR:OG1	2.60	0.59
1:F:632:HIS:HA	1:F:661:LEU:HG	1.85	0.59
1:F:1128:ALA:O	1:F:1132:HIS:ND1	2.22	0.59
1:G:220:GLU:OE2	1:G:224:ARG:NH2	2.35	0.59
1:G:1020:HIS:CD2	1:G:1041:ARG:HH22	2.21	0.59
1:G:1128:ALA:O	1:G:1132:HIS:ND1	2.20	0.59
1:G:1856:PHE:HE1	1:G:1872:ARG:HE	1.51	0.59
1:H:783:LEU:HD13	1:H:808:MET:HB3	1.83	0.59
1:A:468:SER:OG	1:A:614:GLU:OE2	2.17	0.59
1:A:696:GLY:O	1:A:697:MET:HE2	2.03	0.59
1:A:988:GLU:O	1:A:991:GLU:HG3	2.02	0.59
1:A:1121:LEU:HA	1:A:1132:HIS:NE2	2.17	0.59
1:C:1058:ASN:OD1	1:C:1109:LEU:HB2	2.02	0.59
1:C:1698:GLY:HA2	1:C:1700:TYR:CZ	2.38	0.59
1:C:1725:ALA:O	1:C:1729:LYS:HG3	2.03	0.59
1:D:253:PRO:HG3	1:D:834:ALA:HB1	1.85	0.59
1:D:1009:ASP:O	1:D:1013:VAL:HG23	2.02	0.59
1:B:408:ALA:O	1:B:450:ARG:N	2.31	0.59
1:B:568:ARG:HB2	1:B:611:LYS:HA	1.85	0.59
1:E:899:VAL:O	1:E:903:LEU:HD23	2.03	0.59
1:E:1168:LEU:HD21	1:E:1257:VAL:HG22	1.84	0.59
1:E:1461:ASP:HA	1:E:1464:LEU:HD12	1.85	0.59
1:F:137:VAL:HA	1:F:141:THR:HG21	1.85	0.59
1:F:660:PRO:O	1:F:668:ARG:NE	2.27	0.59
1:F:982:ARG:NE	1:F:982:ARG:O	2.36	0.59
1:F:1597:LEU:HA	1:F:1600:LEU:HD12	1.83	0.59
1:G:90:ARG:NH1	1:G:116:TYR:O	2.36	0.59
1:G:282:ALA:HB2	1:G:295:ASN:HA	1.85	0.59
1:H:946:LEU:HA	1:H:951:ARG:HD2	1.85	0.59
1:A:741:PHE:HB2	1:A:748:LEU:HD22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1028:LEU:HB3	1:A:1041:ARG:NH2	2.18	0.59
1:A:1292:LEU:HA	1:A:1295:PHE:HB2	1.85	0.59
1:A:1677:HIS:HA	1:A:1682:GLY:HA3	1.85	0.59
1:C:1107:HIS:CD2	1:C:1164:LEU:HD22	2.37	0.59
1:C:1728:GLY:HA2	1:C:1731:GLN:HG2	1.85	0.59
1:C:1802:ILE:HD11	1:C:1819:TYR:HD1	1.68	0.59
1:D:657:THR:HG21	1:D:676:VAL:HG22	1.83	0.59
1:B:954:THR:O	1:B:959:ARG:NE	2.35	0.59
1:B:1182:PHE:CG	1:B:1294:ALA:HA	2.38	0.59
1:B:1695:THR:HG23	1:B:1700:TYR:HE1	1.68	0.59
1:E:47:LEU:HB2	1:E:1115:THR:HG23	1.84	0.59
1:E:758:ARG:NH1	1:G:1026:THR:OG1	2.36	0.59
1:E:1179:LEU:HA	1:E:1245:LEU:HD13	1.83	0.59
1:E:1498:ASN:O	1:E:1501:ARG:HG2	2.03	0.59
1:F:146:GLN:O	1:F:1376:HIS:NE2	2.21	0.59
1:G:281:LEU:HB2	1:G:296:PHE:HB3	1.85	0.59
1:G:1565:THR:HA	1:G:1568:MET:HG2	1.85	0.59
1:G:1753:ARG:NH1	1:G:1874:THR:HG21	2.17	0.59
1:A:260:ARG:HB3	1:A:503:ALA:HB3	1.85	0.58
1:A:919:SER:OG	1:A:924:ARG:N	2.35	0.58
1:A:1583:TYR:HB2	1:A:1603:MET:HE3	1.85	0.58
1:C:1580:ASP:O	1:C:1584:ARG:HG2	2.03	0.58
1:B:1735:THR:HA	1:B:1738:MET:SD	2.42	0.58
1:E:591:GLY:HA2	1:E:599:THR:HG23	1.85	0.58
1:E:976:GLY:O	1:E:979:VAL:HG12	2.03	0.58
1:E:1026:THR:OG1	1:G:758:ARG:NH1	2.36	0.58
1:E:1438:ALA:HA	1:E:1441:ARG:HE	1.67	0.58
1:E:1716:ALA:O	1:E:1718:ARG:NH1	2.36	0.58
1:F:93:ARG:HB2	1:F:518:ILE:HG23	1.84	0.58
1:H:50:VAL:HG21	1:H:1018:ARG:HB2	1.85	0.58
1:H:231:LEU:HD22	1:H:1259:TRP:HB2	1.84	0.58
1:A:281:LEU:HB2	1:A:296:PHE:HB3	1.84	0.58
1:A:533:LEU:HD13	1:A:548:ARG:HD3	1.84	0.58
1:A:551:LEU:O	1:A:621:LEU:HB2	2.02	0.58
1:A:1430:ALA:HA	1:A:1477:ILE:HD11	1.85	0.58
1:A:1630:TYR:HA	1:A:1633:LEU:HD12	1.85	0.58
1:A:1753:ARG:HH11	1:A:1876:LEU:HD11	1.66	0.58
1:C:1286:ASP:O	1:C:1289:TYR:HB3	2.03	0.58
1:D:590:PHE:O	1:D:592:LYS:NZ	2.32	0.58
1:D:978:GLU:O	1:D:981:THR:N	2.37	0.58
1:D:1136:ILE:HD13	1:D:1253:LEU:HD12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1270:GLN:HG3	1:D:1398:ILE:HG23	1.85	0.58
1:D:1876:LEU:HD12	1:D:1891:VAL:HG11	1.85	0.58
1:D:1893:HIS:NE2	1:H:1892:CYS:HA	2.18	0.58
1:B:565:GLY:O	1:B:568:ARG:NH2	2.36	0.58
1:B:1279:PRO:HB2	1:B:1283:ARG:HH12	1.68	0.58
1:B:1431:LEU:O	1:B:1434:GLN:HG3	2.03	0.58
1:B:1701:GLU:CD	1:B:1701:GLU:H	2.11	0.58
1:E:1270:GLN:OE1	1:E:1398:ILE:HD12	2.04	0.58
1:E:1557:ASN:O	1:E:1561:ILE:HG12	2.03	0.58
1:E:1938:VAL:HB	1:E:2006:ASN:HB3	1.85	0.58
1:F:1727:HIS:O	1:F:1731:GLN:NE2	2.32	0.58
1:G:674:LEU:HB2	1:G:707:PHE:HD2	1.68	0.58
1:G:1406:SER:OG	1:G:1407:GLU:N	2.37	0.58
1:G:1447:PHE:CD2	1:G:1450:LEU:HB2	2.38	0.58
1:H:90:ARG:HA	1:H:120:TRP:HE1	1.68	0.58
1:H:276:PRO:HG2	1:H:309:LEU:HG	1.84	0.58
1:H:899:VAL:O	1:H:903:LEU:HD23	2.03	0.58
1:H:1958:PRO:HG3	1:H:1967:HIS:CE1	2.39	0.58
1:A:698:ARG:HH22	1:A:700:VAL:HG22	1.67	0.58
1:A:1417:LEU:HA	1:A:1420:VAL:HG12	1.84	0.58
1:C:1243:CYS:SG	1:C:1244:ALA:N	2.75	0.58
1:C:1431:LEU:HG	1:C:1435:HIS:CE1	2.39	0.58
1:B:264:LYS:HD3	1:B:323:ARG:HH12	1.67	0.58
1:B:807:ALA:O	1:B:811:VAL:HG23	2.03	0.58
1:E:1139:VAL:O	1:E:1143:LEU:HG	2.03	0.58
1:F:1026:THR:HA	1:H:755:GLN:HE21	1.68	0.58
1:F:1856:PHE:HE1	1:F:1872:ARG:HB2	1.68	0.58
1:G:697:MET:HB3	1:G:699:TRP:CH2	2.38	0.58
1:G:1719:ASP:OD2	1:G:1721:LYS:NZ	2.29	0.58
1:H:916:TRP:HE1	1:H:927:ILE:HG21	1.67	0.58
1:H:1406:SER:OG	1:H:1407:GLU:N	2.36	0.58
1:A:591:GLY:HA2	1:A:599:THR:HG23	1.85	0.58
1:A:1114:LEU:HA	1:A:1117:LEU:HD12	1.85	0.58
1:A:1475:SER:O	1:A:1479:THR:HG23	2.02	0.58
1:A:1919:ALA:HB1	1:A:1930:LEU:HA	1.86	0.58
1:A:2005:ARG:HD2	1:A:2009:ARG:NH2	2.18	0.58
1:C:390:TYR:O	1:C:391:ARG:NH1	2.34	0.58
1:C:1452:PHE:HZ	1:C:1505:GLN:HE22	1.52	0.58
1:C:1875:LEU:HB2	1:C:1895:GLU:HG2	1.86	0.58
1:D:589:ILE:HG21	1:D:602:ALA:HB2	1.85	0.58
1:B:993:LEU:O	1:B:996:SER:OG	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1501:ARG:HH21	1:B:1504:MET:HE1	1.69	0.58
1:E:589:ILE:HD13	1:E:602:ALA:HB2	1.85	0.58
1:E:1173:ARG:HD2	1:E:1280:GLN:CD	2.27	0.58
1:E:1761:PHE:CZ	1:E:1818:ALA:HB1	2.38	0.58
1:H:1543:ARG:HE	1:H:1548:ALA:HB2	1.68	0.58
1:A:1054:TYR:CD1	1:A:1109:LEU:HD23	2.38	0.58
1:C:1827:PRO:HA	1:C:1850:PHE:CD2	2.38	0.58
1:D:227:ARG:HH21	1:D:1391:VAL:HG12	1.68	0.58
1:D:824:ASP:OD1	1:D:828:HIS:N	2.36	0.58
1:D:841:ARG:HH21	1:D:843:PRO:HA	1.67	0.58
1:D:1012:PHE:O	1:D:1015:SER:OG	2.15	0.58
1:D:1243:CYS:SG	1:D:1244:ALA:N	2.72	0.58
1:D:1725:ALA:O	1:D:1729:LYS:HG3	2.02	0.58
1:B:325:ALA:HA	1:B:530:LYS:O	2.03	0.58
1:B:1010:ARG:O	1:B:1013:VAL:N	2.37	0.58
1:B:1417:LEU:HA	1:B:1420:VAL:HG12	1.85	0.58
1:E:1529:LEU:HA	1:E:1532:ILE:HD12	1.85	0.58
1:F:139:THR:HA	1:F:142:GLN:HG2	1.84	0.58
1:F:513:PRO:HA	1:F:530:LYS:HE2	1.85	0.58
1:F:982:ARG:NE	1:F:986:ASP:HB3	2.19	0.58
1:F:1103:PHE:HZ	1:F:1164:LEU:HA	1.68	0.58
1:F:1437:LEU:O	1:F:1441:ARG:HG3	2.03	0.58
1:F:1935:GLN:OE1	1:F:1999:TYR:OH	2.21	0.58
1:G:133:ALA:HB1	1:G:246:ARG:HA	1.84	0.58
1:G:1761:PHE:HB3	1:G:1764:LEU:HG	1.85	0.58
1:H:1858:PRO:HG3	1:H:1870:HIS:CE1	2.37	0.58
1:A:139:THR:HA	1:A:142:GLN:HG2	1.85	0.58
1:A:1412:VAL:O	1:A:1416:VAL:HG23	2.03	0.58
1:C:1615:GLU:HB2	1:C:1885:ILE:HA	1.84	0.58
1:C:1741:SER:HG	1:D:1720:TYR:HH	1.51	0.58
1:C:1879:ASP:HA	1:C:1892:CYS:SG	2.43	0.58
1:D:1253:LEU:O	1:D:1257:VAL:HG23	2.04	0.58
1:D:1684:VAL:HA	1:D:1687:LEU:HD12	1.84	0.58
1:B:663:GLN:O	1:B:744:LYS:NZ	2.32	0.58
1:B:1279:PRO:HB2	1:B:1283:ARG:NH1	2.19	0.58
1:B:1620:MET:HE2	1:B:1620:MET:N	2.18	0.58
1:B:1809:ASP:OD1	1:B:1810:LYS:N	2.37	0.58
1:E:84:GLU:OE1	1:E:126:ARG:NH2	2.36	0.58
1:E:100:PRO:HG2	1:E:625:ALA:HB2	1.84	0.58
1:E:1468:ARG:HA	1:E:1520:PHE:CZ	2.39	0.58
1:E:1564:ASP:O	1:E:1567:LYS:HG2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1590:GLN:HA	1:E:1596:ARG:HH11	1.69	0.58
1:E:1701:GLU:O	1:E:1704:ASN:HB3	2.03	0.58
1:F:551:LEU:HD11	1:F:623:LEU:HB2	1.84	0.58
1:F:916:TRP:HE3	1:F:971:LEU:HD21	1.67	0.58
1:F:1695:THR:OG1	1:F:1703:VAL:HG21	2.02	0.58
1:G:980:ILE:HD13	1:G:1023:GLN:HE22	1.68	0.58
1:G:1051:HIS:HE1	1:G:1053:HIS:HB2	1.68	0.58
1:G:1597:LEU:HD23	1:G:1601:GLN:NE2	2.17	0.58
1:G:1644:CYS:HB2	1:G:1647:PHE:HB2	1.86	0.58
1:H:1090:ASP:HB3	1:H:1093:VAL:HG22	1.85	0.58
1:H:1279:PRO:HB2	1:H:1283:ARG:HH12	1.69	0.58
1:A:461:LYS:HB3	1:A:490:ARG:NE	2.18	0.58
1:A:723:TYR:HA	1:A:726:LYS:HD2	1.84	0.58
1:A:1182:PHE:CD2	1:A:1294:ALA:HA	2.39	0.58
1:A:1772:LYS:HB2	1:A:1882:PHE:CE2	2.38	0.58
1:A:1895:GLU:OE1	1:A:1895:GLU:N	2.36	0.58
1:C:54:LEU:HD13	1:C:1105:GLN:HB3	1.86	0.58
1:C:1009:ASP:O	1:C:1013:VAL:HG23	2.03	0.58
1:C:1272:TRP:CZ2	1:C:1276:LEU:HD22	2.39	0.58
1:C:1963:LEU:HB3	1:C:1967:HIS:CE1	2.38	0.58
1:D:704:LYS:HG2	1:D:706:VAL:HG13	1.85	0.58
1:D:1508:MET:HB2	1:D:1598:THR:HG21	1.85	0.58
1:D:1581:LEU:O	1:D:1585:ILE:HG12	2.04	0.58
1:D:1906:ILE:HD13	1:D:1966:HIS:HB3	1.86	0.58
1:D:1906:ILE:HG12	1:D:1970:LEU:HB2	1.85	0.58
1:E:235:TYR:OH	1:E:1251:ARG:NH2	2.35	0.58
1:E:312:HIS:HB3	1:E:389:ARG:HB2	1.86	0.58
1:E:668:ARG:HB3	1:E:672:PHE:HZ	1.69	0.58
1:F:1596:ARG:O	1:F:1600:LEU:HG	2.04	0.58
1:H:386:ARG:NH2	1:H:641:SER:O	2.36	0.58
1:H:1514:VAL:HG21	1:H:1565:THR:HG21	1.85	0.58
1:A:550:LEU:HB3	1:A:552:TYR:CZ	2.39	0.58
1:A:976:GLY:O	1:A:979:VAL:HG12	2.04	0.58
1:A:1652:SER:O	1:A:1848:ARG:NH2	2.35	0.58
1:C:1257:VAL:O	1:C:1261:LEU:HG	2.04	0.58
1:C:1691:ALA:O	1:C:1695:THR:HG23	2.03	0.58
1:C:1876:LEU:HD12	1:C:1891:VAL:HG11	1.84	0.58
1:D:396:TRP:HZ3	1:D:476:LEU:HD21	1.68	0.58
1:D:567:VAL:HG13	1:D:639:HIS:HB2	1.85	0.58
1:D:1999:TYR:O	1:D:2002:GLU:HG3	2.03	0.58
1:B:1947:LEU:HB2	1:B:2010:LEU:HD11	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1406:SER:OG	1:E:1407:GLU:N	2.37	0.58
1:F:658:TRP:CD1	1:F:686:SER:HA	2.38	0.58
1:F:1147:ASP:OD1	1:F:1259:TRP:NE1	2.37	0.58
1:G:1255:ALA:HB2	1:G:1295:PHE:HZ	1.69	0.58
1:G:1909:MET:O	1:G:1913:THR:HG23	2.04	0.58
1:A:394:PHE:O	1:A:462:GLN:N	2.30	0.58
1:A:747:VAL:O	1:A:752:ASN:ND2	2.36	0.58
1:A:753:VAL:O	1:A:757:LEU:HG	2.04	0.58
1:A:1018:ARG:HG2	1:A:1022:LYS:NZ	2.19	0.58
1:C:1248:GLU:OE1	1:C:1248:GLU:N	2.26	0.58
1:C:1270:GLN:HG3	1:C:1398:ILE:HG23	1.86	0.58
1:C:1796:ASP:O	1:C:1817:LYS:NZ	2.37	0.58
1:D:753:VAL:O	1:D:757:LEU:HD23	2.04	0.58
1:D:1830:ASP:N	1:D:1833:GLU:OE2	2.23	0.58
1:B:218:ARG:HH12	1:B:222:LEU:HG	1.68	0.58
1:B:730:LEU:HD23	1:B:757:LEU:HD12	1.85	0.58
1:E:563:ARG:HH22	1:E:567:VAL:HG11	1.67	0.58
1:E:1278:LEU:HA	1:E:1281:LEU:HD12	1.84	0.58
1:F:569:ASN:H	1:F:639:HIS:HE1	1.52	0.58
1:F:1597:LEU:O	1:F:1601:GLN:NE2	2.37	0.58
1:F:1608:ALA:HA	1:F:1613:HIS:CD2	2.39	0.58
1:G:106:ASP:OD1	1:G:107:ALA:N	2.32	0.58
1:G:1118:ALA:HB2	1:G:1171:ILE:HG12	1.86	0.58
1:G:1487:LEU:HA	1:G:1490:ARG:HG2	1.86	0.58
1:H:231:LEU:HB3	1:H:1259:TRP:CD1	2.31	0.58
1:H:1139:VAL:O	1:H:1143:LEU:HG	2.03	0.58
1:H:1872:ARG:NH1	1:H:1896:GLU:OE2	2.27	0.58
1:A:212:PRO:HG3	1:A:1446:LYS:HZ2	1.68	0.58
1:A:951:ARG:O	1:A:959:ARG:NH1	2.37	0.58
1:D:627:VAL:HG21	1:D:667:LEU:HD11	1.85	0.58
1:D:1637:HIS:H	1:D:1640:LEU:HG	1.69	0.58
1:D:1733:ALA:O	1:D:1737:ILE:HG12	2.04	0.58
1:B:227:ARG:NH2	1:B:1394:ASP:OD2	2.37	0.58
1:B:1000:PHE:CE2	1:B:1004:LEU:HD11	2.38	0.58
1:B:1415:ALA:HA	1:B:1418:LYS:HE2	1.86	0.58
1:B:1491:GLN:HA	1:B:1494:GLU:OE1	2.04	0.58
1:B:1864:GLY:N	1:B:1869:GLN:OE1	2.37	0.58
1:F:693:ALA:HB1	1:F:699:TRP:CZ2	2.39	0.58
1:G:345:VAL:HA	1:G:391:ARG:HD3	1.86	0.58
1:G:1117:LEU:HD23	1:G:1135:ALA:HB1	1.85	0.58
1:G:1243:CYS:SG	1:G:1244:ALA:N	2.73	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1499:PHE:HE2	1:G:1503:LYS:HE3	1.69	0.58
1:H:916:TRP:CD1	1:H:927:ILE:HD13	2.38	0.58
1:A:1167:PRO:O	1:A:1170:SER:N	2.35	0.57
1:A:1837:ARG:NH1	1:A:1842:ASP:O	2.37	0.57
1:C:86:LEU:HB3	1:C:88:GLN:OE1	2.04	0.57
1:C:134:TYR:OH	1:C:247:CYS:O	2.16	0.57
1:C:1710:LEU:HA	1:C:1713:ILE:HD12	1.85	0.57
1:D:980:ILE:O	1:D:983:VAL:HG22	2.04	0.57
1:D:1280:GLN:H	1:D:1280:GLN:CD	2.11	0.57
1:B:1154:GLU:OE1	1:B:1157:VAL:N	2.36	0.57
1:B:1178:ARG:HG2	1:B:1245:LEU:HD12	1.86	0.57
1:B:1257:VAL:O	1:B:1261:LEU:HG	2.03	0.57
1:E:1673:CYS:HA	1:E:1677:HIS:HE1	1.68	0.57
1:E:1963:LEU:HB3	1:E:1967:HIS:CE1	2.39	0.57
1:F:754:GLU:HA	1:F:757:LEU:HD12	1.85	0.57
1:H:1064:LEU:HD12	1:H:1092:LYS:HG2	1.86	0.57
1:A:244:VAL:HG12	1:A:1047:ILE:HG12	1.85	0.57
1:A:974:SER:HA	1:A:977:LEU:HD12	1.86	0.57
1:A:1029:GLN:OE1	1:A:1029:GLN:N	2.34	0.57
1:A:1413:LEU:HA	1:A:1416:VAL:HB	1.86	0.57
1:A:1933:VAL:O	1:A:1937:SER:OG	2.21	0.57
1:C:576:TYR:HD1	1:C:633:LEU:HD23	1.70	0.57
1:C:1253:LEU:O	1:C:1257:VAL:HG23	2.04	0.57
1:C:1426:SER:OG	1:C:1427:ALA:N	2.37	0.57
1:C:1457:GLU:HA	1:C:1460:ALA:HB3	1.86	0.57
1:C:1753:ARG:NH2	1:C:1805:SER:O	2.37	0.57
1:B:816:HIS:HA	1:B:819:LEU:HG	1.87	0.57
1:E:946:LEU:HA	1:E:951:ARG:HD2	1.87	0.57
1:F:390:TYR:O	1:F:391:ARG:NH1	2.37	0.57
1:F:463:GLU:OE2	1:F:488:ARG:NH1	2.31	0.57
1:F:1595:LEU:HD12	1:F:1599:TRP:CZ3	2.39	0.57
1:G:109:VAL:HA	1:G:717:VAL:HG21	1.86	0.57
1:G:632:HIS:CD2	1:G:658:TRP:HB2	2.39	0.57
1:H:1173:ARG:HD2	1:H:1280:GLN:CD	2.28	0.57
1:H:1573:GLU:HG2	1:H:1793:ARG:HH22	1.70	0.57
1:H:1578:LEU:O	1:H:1582:MET:HG3	2.05	0.57
1:H:1636:ASP:HA	1:H:1640:LEU:HD11	1.85	0.57
1:A:654:VAL:O	1:A:678:VAL:HG22	2.04	0.57
1:A:661:LEU:O	1:A:667:LEU:HA	2.04	0.57
1:A:1279:PRO:HB2	1:A:1283:ARG:NH1	2.19	0.57
1:A:1544:ASP:OD1	1:A:1545:SER:N	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:641:SER:HB2	1:C:650:LEU:HD12	1.86	0.57
1:C:753:VAL:O	1:C:757:LEU:HD23	2.03	0.57
1:C:1114:LEU:HA	1:C:1117:LEU:HD12	1.86	0.57
1:D:915:GLN:HA	1:D:918:VAL:HG22	1.86	0.57
1:B:396:TRP:O	1:B:460:PHE:N	2.30	0.57
1:E:90:ARG:HG2	1:E:120:TRP:CE2	2.40	0.57
1:E:1776:ILE:HD11	1:F:699:TRP:HZ3	1.68	0.57
1:F:125:ARG:HB2	1:F:128:GLN:HB2	1.85	0.57
1:F:1505:GLN:HA	1:F:1508:MET:HE2	1.86	0.57
1:G:730:LEU:HD23	1:G:757:LEU:HD23	1.84	0.57
1:H:1300:LYS:HE2	1:H:1378:ALA:HB2	1.86	0.57
1:H:1526:ARG:O	1:H:1530:LYS:HG2	2.04	0.57
1:A:1790:TYR:HB3	1:A:1799:VAL:HG21	1.86	0.57
1:C:554:TYR:CE1	1:C:618:GLU:HA	2.39	0.57
1:C:1283:ARG:HH21	1:C:1286:ASP:HB2	1.70	0.57
1:C:1489:MET:HG3	1:C:1502:VAL:HG11	1.87	0.57
1:D:1096:MET:HB3	1:D:1166:LEU:HD12	1.85	0.57
1:D:1257:VAL:O	1:D:1261:LEU:HG	2.03	0.57
1:D:1258:LEU:HD13	1:D:1261:LEU:HD12	1.85	0.57
1:B:105:LEU:HB2	1:B:110:ARG:NE	2.19	0.57
1:B:1015:SER:HA	1:B:1018:ARG:NE	2.20	0.57
1:B:1804:ASP:O	1:B:1821:GLN:NE2	2.37	0.57
1:E:1670:GLU:HG3	1:E:1671:GLY:H	1.69	0.57
1:F:258:GLY:H	1:F:328:SER:HB3	1.70	0.57
1:F:1038:LEU:HA	1:F:1041:ARG:HG3	1.86	0.57
1:F:1045:THR:HG21	1:F:1116:GLU:HG3	1.87	0.57
1:F:1113:LEU:O	1:F:1117:LEU:HG	2.04	0.57
1:G:146:GLN:O	1:G:1376:HIS:NE2	2.23	0.57
1:G:1529:LEU:HB3	1:G:1555:MET:HE2	1.85	0.57
1:G:1754:VAL:HA	1:G:1821:GLN:O	2.05	0.57
1:A:57:GLU:O	1:A:61:LEU:HG	2.04	0.57
1:A:515:LEU:HD13	1:A:597:GLU:HG3	1.87	0.57
1:A:658:TRP:NE1	1:A:690:PRO:HD3	2.18	0.57
1:A:687:VAL:HG13	1:A:688:LEU:HG	1.86	0.57
1:A:789:ARG:HA	1:A:903:LEU:HD12	1.87	0.57
1:A:1008:VAL:HG22	1:A:1009:ASP:H	1.70	0.57
1:A:1017:VAL:HG12	1:A:1021:TYR:HE1	1.68	0.57
1:A:1720:TYR:O	1:B:1738:MET:HE2	2.05	0.57
1:C:1440:GLN:HA	1:C:1443:LEU:HD12	1.85	0.57
1:D:1139:VAL:O	1:D:1142:LEU:HB3	2.05	0.57
1:B:832:LEU:HB3	1:B:933:PHE:CE1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:976:GLY:O	1:B:979:VAL:HG12	2.05	0.57
1:B:1464:LEU:O	1:B:1468:ARG:HG2	2.05	0.57
1:B:1475:SER:O	1:B:1479:THR:HG23	2.05	0.57
1:B:1630:TYR:HA	1:B:1633:LEU:HD12	1.86	0.57
1:B:1754:VAL:HG13	1:B:1822:ILE:HG13	1.86	0.57
1:E:1527:ARG:HH21	1:E:1531:THR:N	2.02	0.57
1:E:1858:PRO:HG3	1:E:1870:HIS:CE1	2.40	0.57
1:F:283:LEU:N	1:F:293:SER:OG	2.37	0.57
1:G:93:ARG:HB2	1:G:518:ILE:HG23	1.86	0.57
1:G:579:GLY:N	1:G:584:GLN:HG2	2.20	0.57
1:G:699:TRP:HB3	1:G:703:HIS:N	2.19	0.57
1:G:1786:LEU:HD13	1:G:1822:ILE:HG12	1.86	0.57
1:H:663:GLN:HG2	1:H:664:HIS:CD2	2.40	0.57
1:H:943:ALA:HA	1:H:946:LEU:HD12	1.84	0.57
1:H:988:GLU:OE2	1:H:992:HIS:ND1	2.37	0.57
1:H:1119:LEU:O	1:H:1122:GLU:HG2	2.03	0.57
1:H:1687:LEU:HB3	1:H:1710:LEU:HD21	1.85	0.57
1:H:1701:GLU:O	1:H:1704:ASN:HB3	2.03	0.57
1:A:555:PRO:HA	1:A:709:VAL:HA	1.87	0.57
1:A:815:VAL:O	1:A:818:SER:OG	2.19	0.57
1:A:973:GLY:O	1:A:977:LEU:HG	2.04	0.57
1:A:1437:LEU:HA	1:A:1440:GLN:HG3	1.87	0.57
1:A:1617:ALA:HB1	1:A:1694:PHE:HD1	1.68	0.57
1:C:964:PHE:O	1:C:968:ILE:HG12	2.05	0.57
1:D:235:TYR:HE1	1:D:1295:PHE:HZ	1.52	0.57
1:D:532:ILE:HB	1:D:534:GLU:OE2	2.04	0.57
1:D:1761:PHE:CZ	1:D:1818:ALA:HB1	2.40	0.57
1:B:1714:LEU:O	1:B:1718:ARG:N	2.38	0.57
1:E:1500:ALA:HA	1:E:1503:LYS:HG2	1.85	0.57
1:F:742:ARG:H	1:F:742:ARG:HD3	1.69	0.57
1:F:1176:LEU:HA	1:F:1179:LEU:HG	1.86	0.57
1:F:1583:TYR:OH	1:F:1656:GLU:OE1	2.22	0.57
1:G:289:LYS:HD2	1:G:473:PHE:HB3	1.86	0.57
1:A:223:ARG:HD2	1:A:1394:ASP:OD1	2.05	0.57
1:A:227:ARG:HH21	1:A:1390:LEU:HD11	1.69	0.57
1:A:1622:HIS:NE2	1:A:1653:ASN:O	2.26	0.57
1:A:1791:THR:OG1	1:A:1796:ASP:OD1	2.22	0.57
1:A:1989:LYS:HB2	1:A:2000:HIS:HE1	1.68	0.57
1:C:1094:THR:HA	1:C:1097:PHE:HB2	1.86	0.57
1:C:1727:HIS:CE1	1:D:1730:LEU:HG	2.39	0.57
1:D:294:GLU:HG2	1:D:618:GLU:OE1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:445:SER:OG	1:B:446:PHE:N	2.36	0.57
1:B:1726:VAL:HA	1:B:1729:LYS:HD2	1.87	0.57
1:E:265:CYS:HB3	1:E:300:LEU:HD11	1.87	0.57
1:E:1027:ARG:O	1:E:1030:SER:OG	2.22	0.57
1:E:1064:LEU:HD12	1:E:1092:LYS:HG2	1.86	0.57
1:E:1510:LEU:HD21	1:E:1558:LEU:HD22	1.85	0.57
1:E:1768:GLU:HG2	1:E:1890:ARG:HH21	1.69	0.57
1:E:2014:LEU:HA	1:E:2017:LEU:HD12	1.85	0.57
1:F:637:PHE:HB2	1:F:655:GLY:HA3	1.86	0.57
1:F:1567:LYS:HE3	1:F:1581:LEU:HD13	1.86	0.57
1:G:660:PRO:HB2	1:G:668:ARG:NH2	2.19	0.57
1:G:1410:GLU:HG2	1:G:1411:SER:H	1.69	0.57
1:G:1487:LEU:HB3	1:G:1491:GLN:HE22	1.70	0.57
1:H:1034:PRO:HA	1:H:1037:LEU:HD12	1.85	0.57
1:H:1603:MET:HB3	1:H:1607:HIS:CE1	2.39	0.57
1:C:294:GLU:HG2	1:C:618:GLU:OE1	2.05	0.57
1:C:303:ASP:HA	1:C:306:LYS:HD2	1.85	0.57
1:C:544:HIS:N	1:C:774:ALA:O	2.29	0.57
1:C:722:PRO:O	1:C:726:LYS:HG3	2.04	0.57
1:D:388:GLY:O	1:D:391:ARG:NH1	2.26	0.57
1:D:544:HIS:NE2	1:D:546:SER:O	2.38	0.57
1:D:832:LEU:HB3	1:D:933:PHE:CE1	2.40	0.57
1:B:788:ILE:HG12	1:B:789:ARG:HD2	1.86	0.57
1:B:1176:LEU:HD21	1:B:1287:LEU:HD13	1.86	0.57
1:B:1481:ALA:O	1:B:1484:SER:OG	2.21	0.57
1:E:663:GLN:HG2	1:E:664:HIS:CD2	2.40	0.57
1:E:920:SER:HB2	1:G:978:GLU:CG	2.35	0.57
1:E:1409:ARG:HD2	1:E:1413:LEU:HD22	1.85	0.57
1:E:1573:GLU:HG2	1:E:1793:ARG:HH22	1.69	0.57
1:E:1741:SER:HG	1:H:1720:TYR:HH	1.44	0.57
1:F:727:PHE:HA	1:F:730:LEU:HB2	1.86	0.57
1:F:902:ILE:O	1:F:905:SER:OG	2.22	0.57
1:F:1426:SER:H	1:F:1428:GLN:HE22	1.53	0.57
1:G:285:ASP:HB2	1:G:292:ILE:HD13	1.86	0.57
1:H:1720:TYR:HA	1:H:1723:LEU:HB2	1.86	0.57
1:A:785:ARG:HA	1:A:788:ILE:HG22	1.86	0.57
1:A:1415:ALA:HA	1:A:1418:LYS:HE2	1.85	0.57
1:A:1714:LEU:O	1:A:1718:ARG:N	2.36	0.57
1:C:512:SER:HB3	1:C:518:ILE:HD11	1.86	0.57
1:C:551:LEU:HB2	1:C:621:LEU:HB3	1.86	0.57
1:C:980:ILE:O	1:C:983:VAL:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:933:PHE:O	1:D:937:LEU:HG	2.05	0.57
1:D:1020:HIS:CE1	1:D:1041:ARG:NH2	2.73	0.57
1:D:1386:THR:O	1:D:1389:SER:OG	2.20	0.57
1:D:1465:ARG:HA	1:D:1468:ARG:HG2	1.87	0.57
1:D:2000:HIS:O	1:D:2004:GLU:HG3	2.05	0.57
1:B:109:VAL:HG12	1:B:717:VAL:HG21	1.86	0.57
1:B:231:LEU:HB2	1:B:1262:LYS:NZ	2.20	0.57
1:B:322:ALA:HA	1:B:527:ARG:NH1	2.19	0.57
1:B:743:LEU:HD12	1:B:746:THR:HB	1.85	0.57
1:B:1162:ALA:HA	1:B:1165:TYR:CD2	2.40	0.57
1:B:1171:ILE:O	1:B:1175:THR:HG23	2.04	0.57
1:B:1906:ILE:HA	1:B:1970:LEU:HD13	1.85	0.57
1:E:955:PRO:HG2	1:E:958:LEU:HD21	1.86	0.57
1:E:1580:ASP:O	1:E:1583:TYR:HB3	2.05	0.57
1:E:1595:LEU:HD12	1:E:1599:TRP:CZ3	2.40	0.57
1:F:1620:MET:HB3	1:F:1689:GLN:NE2	2.16	0.57
1:G:912:LEU:O	1:G:915:GLN:HG3	2.05	0.57
1:G:1018:ARG:HG2	1:G:1022:LYS:NZ	2.19	0.57
1:H:156:GLN:HE21	1:H:1297:TYR:HD2	1.52	0.57
1:H:1270:GLN:OE1	1:H:1398:ILE:HD12	2.05	0.57
1:A:259:GLN:O	1:A:328:SER:HA	2.05	0.57
1:A:1279:PRO:HB2	1:A:1283:ARG:HH12	1.69	0.57
1:A:1285:LEU:HD21	1:A:1399:ILE:HD13	1.87	0.57
1:C:90:ARG:HD3	1:C:118:GLU:O	2.04	0.57
1:C:1121:LEU:HD11	1:C:1136:ILE:HD11	1.87	0.57
1:C:1733:ALA:HA	1:C:1736:LYS:NZ	2.19	0.57
1:C:1821:GLN:OE1	1:C:1823:THR:OG1	2.23	0.57
1:D:1139:VAL:HG23	1:D:1142:LEU:HD23	1.86	0.57
1:D:1756:PHE:O	1:D:1766:GLU:N	2.34	0.57
1:B:915:GLN:HA	1:B:918:VAL:HG22	1.87	0.57
1:B:956:ARG:NH1	1:B:1007:LEU:O	2.38	0.57
1:B:1017:VAL:HG12	1:B:1021:TYR:CE2	2.39	0.57
1:B:1158:LYS:HG3	1:B:1263:ASN:OD1	2.05	0.57
1:B:1392:VAL:O	1:B:1395:THR:OG1	2.14	0.57
1:B:1628:ALA:HB1	1:B:1641:PRO:HD2	1.87	0.57
1:E:88:GLN:HB2	1:E:120:TRP:HB2	1.86	0.57
1:F:1947:LEU:HD13	1:F:2014:LEU:HG	1.85	0.57
1:G:234:LEU:HB2	1:G:1384:LEU:HD12	1.85	0.57
1:H:1558:LEU:HD23	1:H:1561:ILE:HD12	1.86	0.57
1:A:812:VAL:HA	1:A:815:VAL:HG22	1.87	0.56
1:A:980:ILE:HG21	1:A:1027:ARG:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1557:ASN:O	1:A:1560:MET:HG2	2.06	0.56
1:C:120:TRP:CZ3	1:C:839:ALA:HB2	2.40	0.56
1:C:924:ARG:O	1:C:928:LEU:HG	2.05	0.56
1:C:931:ALA:O	1:C:934:PHE:N	2.38	0.56
1:C:1162:ALA:HA	1:C:1165:TYR:HD2	1.70	0.56
1:C:1861:ARG:NH1	1:C:1863:HIS:O	2.38	0.56
1:D:1453:GLU:OE1	1:D:1454:GLU:HG2	2.05	0.56
1:B:286:VAL:HB	1:B:335:ASP:HB3	1.87	0.56
1:B:1396:LEU:HD21	1:B:1443:LEU:HD11	1.87	0.56
1:B:1810:LYS:HD2	1:B:1813:LEU:HD12	1.87	0.56
1:B:1838:VAL:O	1:B:1843:ARG:NH1	2.37	0.56
1:E:755:GLN:HA	1:E:758:ARG:NE	2.20	0.56
1:E:782:LYS:HG3	1:E:785:ARG:HH12	1.69	0.56
1:F:674:LEU:HB2	1:F:707:PHE:HD2	1.70	0.56
1:G:97:PRO:HG3	1:G:117:ILE:HD13	1.87	0.56
1:G:561:SER:N	1:G:612:SER:HB3	2.19	0.56
1:G:1005:LEU:HD22	1:G:1010:ARG:HG3	1.87	0.56
1:G:1054:TYR:O	1:G:1058:ASN:ND2	2.38	0.56
1:G:1599:TRP:HA	1:G:1602:ASN:HD22	1.69	0.56
1:A:788:ILE:HG13	1:A:906:LYS:O	2.04	0.56
1:A:933:PHE:O	1:A:937:LEU:HG	2.05	0.56
1:C:676:VAL:O	1:C:700:VAL:N	2.26	0.56
1:C:1845:TYR:HA	1:C:1883:PRO:HD2	1.86	0.56
1:D:1856:PHE:O	1:D:1869:GLN:NE2	2.38	0.56
1:D:1922:GLN:HB2	1:D:1925:PRO:HA	1.87	0.56
1:B:106:ASP:HB3	1:B:109:VAL:HG22	1.87	0.56
1:B:108:GLN:HG3	1:B:732:HIS:CD2	2.40	0.56
1:B:1604:ALA:HA	1:B:1616:ALA:HB1	1.87	0.56
1:B:1791:THR:OG1	1:B:1796:ASP:OD1	2.22	0.56
1:E:145:ARG:HH22	1:E:1148:THR:HA	1.69	0.56
1:E:207:LEU:HB3	1:E:1535:TYR:HE1	1.70	0.56
1:E:723:TYR:HD2	1:E:767:ALA:HB2	1.70	0.56
1:E:1138:ALA:O	1:E:1142:LEU:HG	2.05	0.56
1:E:1268:LEU:HD13	1:E:1271:ARG:HG3	1.85	0.56
1:E:1687:LEU:HB3	1:E:1710:LEU:HD21	1.88	0.56
1:E:1721:LYS:HD3	1:H:1738:MET:HE1	1.87	0.56
1:F:660:PRO:HB2	1:F:668:ARG:NH2	2.19	0.56
1:G:281:LEU:HD22	1:G:338:LEU:HD11	1.87	0.56
1:G:312:HIS:CG	1:G:389:ARG:H	2.23	0.56
1:G:558:LEU:HD13	1:G:707:PHE:HA	1.86	0.56
1:G:1838:VAL:HG13	1:G:1839:THR:HG23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1884:TYR:CE2	1:G:1889:ILE:HD13	2.40	0.56
1:H:328:SER:OG	1:H:531:GLU:OE2	2.20	0.56
1:H:388:GLY:O	1:H:391:ARG:NH1	2.38	0.56
1:A:151:ARG:NH1	1:A:153:VAL:HA	2.20	0.56
1:A:749:SER:OG	1:A:750:GLU:N	2.38	0.56
1:A:1009:ASP:HB3	1:A:1012:PHE:CE2	2.40	0.56
1:A:1154:GLU:OE1	1:A:1157:VAL:N	2.34	0.56
1:A:1490:ARG:HA	1:A:1547:PHE:HE1	1.70	0.56
1:A:1760:HIS:ND1	1:A:1798:VAL:HG11	2.20	0.56
1:C:259:GLN:O	1:C:328:SER:HA	2.05	0.56
1:C:835:TYR:CZ	1:C:840:PHE:HA	2.40	0.56
1:C:935:PHE:HA	1:C:938:MET:SD	2.45	0.56
1:C:1606:LYS:HD3	1:C:1609:GLU:OE2	2.05	0.56
1:D:141:THR:HB	1:D:145:ARG:NH1	2.18	0.56
1:D:623:LEU:HD11	1:D:627:VAL:HG22	1.87	0.56
1:D:993:LEU:O	1:D:996:SER:OG	2.16	0.56
1:D:1008:VAL:O	1:D:1010:ARG:HD2	2.06	0.56
1:D:1041:ARG:NH2	1:D:1044:PHE:CD2	2.73	0.56
1:D:1285:LEU:HA	1:D:1288:LEU:HD12	1.88	0.56
1:D:1394:ASP:O	1:D:1398:ILE:HD12	2.06	0.56
1:D:1444:VAL:HB	1:D:1448:PRO:HB3	1.86	0.56
1:B:984:HIS:ND1	1:B:985:LYS:HG2	2.20	0.56
1:E:537:ALA:O	1:E:538:ARG:NH1	2.38	0.56
1:E:1120:ALA:HA	1:E:1131:LEU:HD23	1.87	0.56
1:E:1729:LYS:O	1:E:1732:GLU:HG3	2.05	0.56
1:F:916:TRP:O	1:F:924:ARG:NH1	2.37	0.56
1:F:1121:LEU:HD12	1:F:1132:HIS:CD2	2.40	0.56
1:F:1279:PRO:O	1:F:1283:ARG:HG2	2.05	0.56
1:F:1906:ILE:HD11	1:F:1966:HIS:HB3	1.87	0.56
1:F:1936:GLY:HA2	1:F:1940:PRO:HB3	1.87	0.56
1:G:698:ARG:NH1	1:G:699:TRP:O	2.38	0.56
1:G:965:LEU:O	1:G:969:THR:HG23	2.05	0.56
1:H:100:PRO:HG2	1:H:625:ALA:HB2	1.86	0.56
1:H:396:TRP:CD1	1:H:462:GLN:HG3	2.40	0.56
1:H:592:LYS:N	1:H:595:CYS:SG	2.79	0.56
1:H:1142:LEU:O	1:H:1146:HIS:ND1	2.24	0.56
1:H:1266:PRO:HA	1:H:1269:LEU:HD12	1.87	0.56
1:A:259:GLN:HE22	1:A:332:PRO:HB3	1.70	0.56
1:A:396:TRP:CH2	1:A:475:PHE:HB3	2.40	0.56
1:A:548:ARG:C	1:A:716:SER:HB3	2.31	0.56
1:A:553:VAL:O	1:A:619:PHE:HD2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:589:ILE:HG12	1:A:621:LEU:HG	1.87	0.56
1:A:676:VAL:O	1:A:700:VAL:HG23	2.06	0.56
1:A:681:PRO:HA	1:A:697:MET:HE3	1.86	0.56
1:A:1419:VAL:HA	1:A:1422:TYR:HD2	1.71	0.56
1:A:1628:ALA:HB1	1:A:1641:PRO:HD2	1.86	0.56
1:A:1720:TYR:OH	1:B:1741:SER:OG	2.19	0.56
1:A:1796:ASP:O	1:A:1817:LYS:NZ	2.30	0.56
1:A:1988:ASN:O	1:A:1992:ILE:HG12	2.05	0.56
1:C:287:ARG:NE	1:C:333:SER:OG	2.39	0.56
1:D:83:LEU:HD21	1:D:125:ARG:HG2	1.88	0.56
1:D:259:GLN:HG2	1:D:329:VAL:O	2.06	0.56
1:D:1403:VAL:HB	1:D:1409:ARG:HH11	1.71	0.56
1:B:1130:LEU:HD23	1:B:1133:LYS:HD2	1.87	0.56
1:B:1761:PHE:CZ	1:B:1818:ALA:HB1	2.41	0.56
1:E:1711:ILE:HB	1:E:1712:PRO:HD3	1.87	0.56
1:F:567:VAL:HG13	1:F:639:HIS:HB2	1.87	0.56
1:F:1600:LEU:O	1:F:1620:MET:HE1	2.04	0.56
1:F:1622:HIS:CD2	1:F:1654:VAL:HA	2.40	0.56
1:G:632:HIS:NE2	1:G:634:LEU:HB2	2.21	0.56
1:G:656:PHE:N	1:G:677:SER:O	2.38	0.56
1:H:235:TYR:HE1	1:H:1251:ARG:HE	1.52	0.56
1:H:400:HIS:CD2	1:H:401:LEU:H	2.23	0.56
1:H:824:ASP:OD1	1:H:828:HIS:N	2.38	0.56
1:H:1397:GLU:OE2	1:H:1439:THR:HG23	2.06	0.56
1:H:1551:VAL:O	1:H:1555:MET:HG2	2.06	0.56
1:H:1564:ASP:O	1:H:1567:LYS:HG2	2.05	0.56
1:H:1917:ALA:HB2	1:H:1980:LYS:NZ	2.21	0.56
1:A:754:GLU:O	1:A:758:ARG:HG2	2.06	0.56
1:A:899:VAL:O	1:A:903:LEU:HD23	2.06	0.56
1:C:86:LEU:HD12	1:C:88:GLN:HE22	1.69	0.56
1:C:2021:ARG:HH21	1:E:1552:GLN:HG3	1.70	0.56
1:D:1096:MET:HA	1:D:1103:PHE:CD2	2.41	0.56
1:D:1420:VAL:O	1:D:1423:SER:OG	2.21	0.56
1:D:1573:GLU:OE1	1:D:1573:GLU:N	2.36	0.56
1:B:151:ARG:NH1	1:B:153:VAL:HA	2.21	0.56
1:B:558:LEU:HD23	1:B:613:PRO:HG2	1.87	0.56
1:B:899:VAL:O	1:B:903:LEU:HD23	2.04	0.56
1:B:1008:VAL:HG22	1:B:1009:ASP:H	1.70	0.56
1:B:1574:ASP:HB2	1:B:1793:ARG:NH2	2.20	0.56
1:E:139:THR:O	1:E:142:GLN:HG2	2.06	0.56
1:G:658:TRP:CD1	1:G:686:SER:HA	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:902:ILE:O	1:G:905:SER:OG	2.21	0.56
1:G:1401:GLN:HA	1:G:1404:MET:HE1	1.87	0.56
1:H:658:TRP:NE1	1:H:688:LEU:O	2.35	0.56
1:H:916:TRP:HE3	1:H:971:LEU:HD21	1.69	0.56
1:H:1827:PRO:HA	1:H:1850:PHE:HA	1.87	0.56
1:H:1857:THR:HG21	1:H:1861:ARG:HB2	1.87	0.56
1:H:1902:VAL:HG22	1:H:1953:PHE:CE1	2.41	0.56
1:A:954:THR:HG22	1:A:958:LEU:HD21	1.87	0.56
1:A:1171:ILE:O	1:A:1175:THR:HG23	2.06	0.56
1:A:1849:THR:HA	1:A:1876:LEU:O	2.06	0.56
1:C:549:ASN:HB3	1:C:622:HIS:CE1	2.40	0.56
1:C:1630:TYR:HA	1:C:1633:LEU:HD12	1.86	0.56
1:D:90:ARG:NH1	1:D:118:GLU:O	2.39	0.56
1:D:1103:PHE:HZ	1:D:1164:LEU:HA	1.71	0.56
1:B:968:ILE:O	1:B:971:LEU:HB3	2.06	0.56
1:B:1508:MET:CE	1:B:1594:ASP:HB3	2.34	0.56
1:E:138:THR:O	1:E:141:THR:OG1	2.18	0.56
1:E:309:LEU:HD21	1:E:391:ARG:HH22	1.70	0.56
1:E:1693:TYR:HA	1:E:1696:MET:CG	2.36	0.56
1:F:129:TYR:HA	1:F:134:TYR:HB3	1.88	0.56
1:F:466:ARG:HD3	1:F:616:TYR:CD1	2.41	0.56
1:F:1243:CYS:SG	1:F:1244:ALA:N	2.70	0.56
1:G:1572:GLN:HA	1:G:1578:LEU:HD22	1.88	0.56
1:H:90:ARG:HG2	1:H:120:TRP:CE2	2.41	0.56
1:H:323:ARG:HE	1:H:527:ARG:HH11	1.51	0.56
1:H:1179:LEU:HD23	1:H:1245:LEU:HD22	1.88	0.56
1:H:1958:PRO:HG3	1:H:1967:HIS:HD1	1.71	0.56
1:A:1548:ALA:O	1:A:1552:GLN:HG2	2.05	0.56
1:A:1712:PRO:O	1:A:1716:ALA:N	2.36	0.56
1:C:658:TRP:NE1	1:C:686:SER:HA	2.21	0.56
1:C:757:LEU:O	1:C:761:LEU:HG	2.06	0.56
1:C:1531:THR:O	1:C:1534:THR:OG1	2.20	0.56
1:C:1720:TYR:HB2	1:D:1734:PHE:CZ	2.41	0.56
1:C:2008:CYS:O	1:C:2011:ARG:HG3	2.06	0.56
1:D:917:VAL:O	1:D:924:ARG:NH2	2.37	0.56
1:D:1440:GLN:HA	1:D:1443:LEU:HD12	1.87	0.56
1:B:259:GLN:HG2	1:B:329:VAL:O	2.05	0.56
1:B:1409:ARG:HA	1:B:1412:VAL:HB	1.88	0.56
1:B:1712:PRO:O	1:B:1716:ALA:N	2.34	0.56
1:B:1743:GLY:HA2	1:B:1746:ARG:HH21	1.70	0.56
1:E:669:THR:HG21	1:E:720:GLN:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1805:SER:HB3	1:E:1852:PHE:HE2	1.71	0.56
1:F:1474:ILE:HD13	1:F:1477:ILE:HD12	1.88	0.56
1:H:730:LEU:HD23	1:H:757:LEU:HA	1.87	0.56
1:A:587:PRO:HD3	1:A:600:ARG:CZ	2.36	0.56
1:A:1046:ARG:HH21	1:A:1047:ILE:HD11	1.70	0.56
1:A:1284:LEU:O	1:A:1287:LEU:HB3	2.05	0.56
1:A:1297:TYR:HE1	1:A:1381:GLU:HG3	1.70	0.56
1:C:220:GLU:HA	1:C:223:ARG:HH21	1.71	0.56
1:C:475:PHE:O	1:C:479:MET:HG3	2.06	0.56
1:C:1280:GLN:CD	1:C:1280:GLN:H	2.14	0.56
1:C:1578:LEU:HD12	1:C:1581:LEU:HD21	1.88	0.56
1:D:664:HIS:HB3	1:D:743:LEU:HA	1.88	0.56
1:D:803:GLY:O	1:D:806:GLU:HB2	2.05	0.56
1:B:1129:PHE:CE2	1:B:1130:LEU:HG	2.41	0.56
1:B:1425:GLY:HA3	1:B:1465:ARG:NH1	2.20	0.56
1:B:1495:ILE:HG13	1:B:1496:GLY:N	2.20	0.56
1:E:2008:CYS:O	1:E:2011:ARG:HG2	2.06	0.56
1:F:1051:HIS:HE1	1:F:1053:HIS:HB2	1.71	0.56
1:G:49:GLU:O	1:G:1104:ARG:NH2	2.38	0.56
1:G:1562:LEU:HA	1:G:1565:THR:HG22	1.88	0.56
1:H:558:LEU:HB3	1:H:613:PRO:HG2	1.88	0.56
1:A:280:ILE:HG12	1:A:297:TYR:HA	1.87	0.56
1:A:1399:ILE:O	1:A:1402:THR:OG1	2.21	0.56
1:C:294:GLU:CD	1:C:533:LEU:HB2	2.30	0.56
1:C:1179:LEU:HA	1:C:1245:LEU:HD13	1.87	0.56
1:C:1558:LEU:HD13	1:C:1561:ILE:HD12	1.88	0.56
1:D:972:VAL:HG21	1:D:1016:LEU:HD22	1.88	0.56
1:D:1457:GLU:HA	1:D:1460:ALA:HB3	1.87	0.56
1:B:47:LEU:HD13	1:B:1119:LEU:HB3	1.88	0.56
1:B:490:ARG:H	1:B:490:ARG:HD3	1.71	0.56
1:B:521:TYR:HE2	1:B:524:PRO:HA	1.70	0.56
1:B:1508:MET:HG3	1:B:1598:THR:HG21	1.88	0.56
1:E:1105:GLN:HA	1:E:1108:PHE:CE1	2.41	0.56
1:E:1865:GLU:N	1:E:1868:GLU:OE2	2.39	0.56
1:F:1437:LEU:O	1:F:1440:GLN:HG3	2.04	0.56
1:G:125:ARG:HB2	1:G:128:GLN:HB2	1.87	0.56
1:H:266:LEU:HD12	1:H:497:LYS:HG2	1.87	0.56
1:H:1178:ARG:NH1	1:H:1243:CYS:O	2.39	0.56
1:H:1543:ARG:NE	1:H:1548:ALA:HB2	2.21	0.56
1:H:1711:ILE:HB	1:H:1712:PRO:HD3	1.86	0.56
1:A:276:PRO:HD2	1:A:345:VAL:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:570:LEU:HA	1:A:638:TYR:O	2.05	0.56
1:A:581:ASP:OD2	1:A:584:GLN:NE2	2.35	0.56
1:A:1604:ALA:HB1	1:A:1693:TYR:CE2	2.41	0.56
1:A:1928:LYS:O	1:A:1932:MET:HG2	2.06	0.56
1:C:51:VAL:HG11	1:C:1105:GLN:HG2	1.88	0.56
1:C:230:ALA:O	1:C:233:THR:OG1	2.24	0.56
1:C:321:LEU:HD23	1:C:527:ARG:HE	1.71	0.56
1:C:1000:PHE:CE2	1:C:1004:LEU:HD11	2.41	0.56
1:C:1104:ARG:NH2	1:C:1112:LEU:HG	2.21	0.56
1:C:1386:THR:O	1:C:1389:SER:OG	2.21	0.56
1:C:1858:PRO:HG3	1:C:1870:HIS:HE1	1.70	0.56
1:B:467:LEU:HD11	1:B:475:PHE:HE2	1.70	0.56
1:B:982:ARG:HH22	1:B:985:LYS:HB2	1.70	0.56
1:B:1622:HIS:HB3	1:B:1657:GLU:HG3	1.87	0.56
1:E:56:PHE:CG	1:E:1010:ARG:HB2	2.41	0.56
1:E:556:HIS:ND1	1:E:615:PHE:O	2.34	0.56
1:E:741:PHE:HB2	1:E:748:LEU:HD12	1.87	0.56
1:F:927:ILE:O	1:F:931:ALA:CB	2.54	0.56
1:G:348:GLN:HB3	1:G:643:GLN:HA	1.88	0.56
1:G:1157:VAL:HG13	1:G:1160:ARG:HH21	1.70	0.56
1:H:294:GLU:OE2	1:H:552:TYR:OH	2.24	0.56
1:H:723:TYR:HA	1:H:726:LYS:HE3	1.88	0.56
1:H:1558:LEU:O	1:H:1562:LEU:HG	2.06	0.56
1:A:1403:VAL:HG11	1:A:1412:VAL:HG11	1.88	0.55
1:A:1587:ARG:NH1	1:A:1656:GLU:O	2.39	0.55
1:C:265:CYS:O	1:C:323:ARG:NH1	2.36	0.55
1:C:607:VAL:HB	1:C:613:PRO:HB3	1.88	0.55
1:C:1533:LEU:HD21	1:C:1555:MET:HE1	1.88	0.55
1:C:1751:TYR:HE1	1:C:1772:LYS:HD3	1.69	0.55
1:C:1893:HIS:NE2	1:C:1895:GLU:HB3	2.20	0.55
1:D:639:HIS:HB3	1:D:652:THR:OG1	2.07	0.55
1:D:924:ARG:O	1:D:928:LEU:HG	2.05	0.55
1:D:1391:VAL:O	1:D:1395:THR:HG23	2.07	0.55
1:D:1850:PHE:HB2	1:D:1876:LEU:HB2	1.88	0.55
1:D:1890:ARG:HG2	1:D:1890:ARG:HH11	1.72	0.55
1:B:912:LEU:O	1:B:915:GLN:NE2	2.40	0.55
1:B:1653:ASN:ND2	1:B:1848:ARG:HH21	2.04	0.55
1:B:1802:ILE:HD11	1:B:1819:TYR:HB3	1.88	0.55
1:E:1535:TYR:HA	1:E:1538:GLU:HG2	1.88	0.55
1:H:754:GLU:O	1:H:758:ARG:HG2	2.06	0.55
1:A:231:LEU:HD12	1:A:1262:LYS:HD3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:767:ALA:HB3	1:A:772:LEU:HD11	1.87	0.55
1:A:841:ARG:HH21	1:A:843:PRO:HA	1.72	0.55
1:A:1041:ARG:O	1:A:1044:PHE:HB3	2.06	0.55
1:A:1425:GLY:HA3	1:A:1465:ARG:NH1	2.22	0.55
1:A:1486:TYR:OH	1:A:1536:ALA:HA	2.07	0.55
1:A:1714:LEU:HB2	1:A:1723:LEU:HD11	1.88	0.55
1:A:1903:GLU:HA	1:A:1906:ILE:HD12	1.88	0.55
1:C:1808:VAL:HG23	1:C:1812:LYS:HE2	1.88	0.55
1:D:140:ASP:O	1:D:143:ARG:HG2	2.07	0.55
1:D:562:SER:OG	1:D:701:ASP:OD2	2.13	0.55
1:B:220:GLU:HA	1:B:223:ARG:HG2	1.88	0.55
1:B:1579:ILE:HD11	1:B:1606:LYS:HB3	1.88	0.55
1:B:1814:ASP:OD1	1:B:1815:SER:N	2.40	0.55
1:E:1838:VAL:HG11	1:H:1718:ARG:NH2	2.21	0.55
1:E:1934:LEU:HD21	1:E:1985:LEU:HG	1.88	0.55
1:F:912:LEU:HD12	1:F:915:GLN:NE2	2.21	0.55
1:G:394:PHE:O	1:G:462:GLN:N	2.25	0.55
1:H:84:GLU:OE1	1:H:126:ARG:NH2	2.39	0.55
1:H:290:LYS:HZ2	1:H:292:ILE:HA	1.71	0.55
1:H:798:VAL:HG13	1:H:800:LEU:HD23	1.88	0.55
1:H:1707:TYR:O	1:H:1711:ILE:HG13	2.06	0.55
1:H:1800:GLU:HB2	1:H:1817:LYS:HE3	1.88	0.55
1:A:90:ARG:NH1	1:A:118:GLU:O	2.39	0.55
1:A:1785:ARG:HH22	1:A:1789:PHE:HB2	1.71	0.55
1:C:1926:ASP:O	1:C:1930:LEU:CB	2.54	0.55
1:D:138:THR:O	1:D:141:THR:OG1	2.17	0.55
1:D:548:ARG:NH1	1:D:714:VAL:HG23	2.21	0.55
1:D:627:VAL:HB	1:D:662:LEU:HD13	1.88	0.55
1:D:658:TRP:NE1	1:D:686:SER:HA	2.21	0.55
1:D:1849:THR:HA	1:D:1876:LEU:O	2.06	0.55
1:B:574:VAL:HB	1:B:602:ALA:HB3	1.88	0.55
1:B:785:ARG:CZ	1:B:788:ILE:HG21	2.36	0.55
1:B:1421:LEU:O	1:B:1465:ARG:NH1	2.38	0.55
1:B:1600:LEU:HD13	1:B:1623:ALA:HB2	1.87	0.55
1:E:1646:SER:HB2	1:E:1709:ASN:ND2	2.22	0.55
1:F:1623:ALA:HB3	1:F:1686:LEU:HD21	1.88	0.55
1:G:129:TYR:HA	1:G:134:TYR:HB3	1.87	0.55
1:G:466:ARG:HB3	1:G:614:GLU:HB2	1.88	0.55
1:G:1737:ILE:O	1:G:1741:SER:OG	2.13	0.55
1:H:95:THR:N	1:H:517:HIS:O	2.23	0.55
1:H:1171:ILE:O	1:H:1175:THR:HG23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1285:LEU:HD21	1:H:1399:ILE:HD13	1.88	0.55
1:H:1646:SER:HB2	1:H:1709:ASN:ND2	2.21	0.55
1:H:1962:LYS:HB3	1:H:1965:ARG:HH12	1.71	0.55
1:A:730:LEU:HD23	1:A:757:LEU:HA	1.86	0.55
1:A:1015:SER:HA	1:A:1018:ARG:NE	2.21	0.55
1:A:1526:ARG:HD2	1:A:1527:ARG:N	2.21	0.55
1:A:1707:TYR:O	1:A:1711:ILE:HG23	2.05	0.55
1:C:408:ALA:O	1:C:450:ARG:N	2.39	0.55
1:C:573:ARG:HA	1:C:602:ALA:O	2.06	0.55
1:C:1013:VAL:HA	1:C:1016:LEU:HD12	1.89	0.55
1:D:86:LEU:HD23	1:D:124:HIS:HB3	1.88	0.55
1:D:1879:ASP:HA	1:D:1892:CYS:SG	2.46	0.55
1:B:654:VAL:O	1:B:678:VAL:HG22	2.06	0.55
1:B:697:MET:HA	1:B:697:MET:HE3	1.89	0.55
1:E:754:GLU:O	1:E:758:ARG:HG2	2.07	0.55
1:E:1581:LEU:HD23	1:E:1584:ARG:HD2	1.87	0.55
1:F:956:ARG:HA	1:F:959:ARG:HB2	1.87	0.55
1:F:1727:HIS:ND1	1:G:1731:GLN:OE1	2.36	0.55
1:A:106:ASP:HB3	1:A:109:VAL:HG22	1.89	0.55
1:A:976:GLY:HA2	1:A:979:VAL:HG12	1.89	0.55
1:A:1731:GLN:OE1	1:B:1727:HIS:ND1	2.39	0.55
1:A:1856:PHE:O	1:A:1869:GLN:NE2	2.39	0.55
1:C:271:GLU:HB2	1:C:493:THR:HG21	1.89	0.55
1:C:312:HIS:CD2	1:C:389:ARG:HB2	2.41	0.55
1:C:1023:GLN:HG3	1:B:758:ARG:NH1	2.21	0.55
1:C:1097:PHE:CD2	1:C:1272:TRP:HD1	2.24	0.55
1:C:1403:VAL:HG13	1:C:1406:SER:HB3	1.87	0.55
1:C:1403:VAL:HB	1:C:1409:ARG:HH11	1.72	0.55
1:C:1626:LEU:HD12	1:C:1660:ILE:HD11	1.88	0.55
1:D:103:GLU:C	1:D:110:ARG:HH22	2.15	0.55
1:D:283:LEU:N	1:D:293:SER:OG	2.39	0.55
1:B:50:VAL:HG13	1:B:1104:ARG:HD3	1.87	0.55
1:B:207:LEU:O	1:B:209:ARG:NH1	2.40	0.55
1:B:952:LEU:HD12	1:B:959:ARG:HH22	1.72	0.55
1:B:1895:GLU:OE1	1:B:1895:GLU:N	2.40	0.55
1:F:250:PRO:HG2	1:F:838:TYR:HE2	1.71	0.55
1:F:391:ARG:HB2	1:F:605:PRO:HB3	1.88	0.55
1:F:1024:VAL:O	1:F:1028:LEU:HG	2.07	0.55
1:G:294:GLU:HG2	1:G:535:PHE:CZ	2.42	0.55
1:H:480:ARG:C	1:H:481:ARG:HD2	2.31	0.55
1:H:1096:MET:HG3	1:H:1166:LEU:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1167:PRO:O	1:H:1170:SER:N	2.40	0.55
1:H:1468:ARG:HA	1:H:1520:PHE:CZ	2.41	0.55
1:A:1389:SER:HB2	1:A:1432:PHE:CZ	2.42	0.55
1:A:1495:ILE:HG13	1:A:1496:GLY:N	2.21	0.55
1:A:1508:MET:CE	1:A:1594:ASP:HB3	2.36	0.55
1:D:81:ASP:OD2	1:D:127:TYR:OH	2.15	0.55
1:D:806:GLU:O	1:D:810:HIS:ND1	2.40	0.55
1:D:961:PRO:HB3	1:D:963:ARG:CZ	2.37	0.55
1:D:1410:GLU:HG2	1:D:1411:SER:H	1.72	0.55
1:B:674:LEU:HB2	1:B:707:PHE:HD2	1.72	0.55
1:B:1029:GLN:OE1	1:B:1029:GLN:N	2.35	0.55
1:B:1468:ARG:HA	1:B:1520:PHE:HZ	1.71	0.55
1:E:294:GLU:OE2	1:E:552:TYR:OH	2.24	0.55
1:E:1493:PHE:HZ	1:E:1545:SER:HB3	1.72	0.55
1:E:1955:ALA:HA	1:E:2020:GLN:HE22	1.71	0.55
1:F:271:GLU:HB2	1:F:493:THR:CG2	2.37	0.55
1:F:1020:HIS:O	1:F:1023:GLN:NE2	2.39	0.55
1:G:86:LEU:HD21	1:G:88:GLN:HB2	1.87	0.55
1:G:1986:ARG:HA	1:G:1989:LYS:HG2	1.89	0.55
1:H:544:HIS:H	1:H:777:HIS:HE1	1.49	0.55
1:H:1105:GLN:HA	1:H:1108:PHE:CE1	2.41	0.55
1:H:1476:THR:O	1:H:1479:THR:OG1	2.22	0.55
1:C:933:PHE:O	1:C:937:LEU:HG	2.07	0.55
1:D:1028:LEU:HD23	1:D:1037:LEU:HD23	1.89	0.55
1:D:1129:PHE:HA	1:D:1132:HIS:ND1	2.22	0.55
1:D:1473:ARG:HG2	1:D:1524:HIS:CE1	2.42	0.55
1:B:1300:LYS:NZ	1:B:1374:MET:HB3	2.22	0.55
1:E:1176:LEU:HA	1:E:1179:LEU:HD12	1.89	0.55
1:F:719:PRO:HD2	1:F:725:ASP:CG	2.31	0.55
1:F:1825:VAL:HG12	1:F:1850:PHE:HB3	1.87	0.55
1:H:749:SER:N	1:H:752:ASN:OD1	2.36	0.55
1:H:1740:GLN:HA	1:H:1745:GLU:HB2	1.88	0.55
1:H:2014:LEU:HA	1:H:2017:LEU:HD12	1.88	0.55
1:A:220:GLU:OE2	1:A:223:ARG:NH2	2.39	0.55
1:A:1049:CYS:SG	1:A:1113:LEU:HD21	2.47	0.55
1:A:1464:LEU:O	1:A:1468:ARG:HG2	2.06	0.55
1:C:259:GLN:HG2	1:C:329:VAL:O	2.07	0.55
1:C:1394:ASP:O	1:C:1398:ILE:HD12	2.06	0.55
1:C:1453:GLU:OE1	1:C:1454:GLU:HG2	2.07	0.55
1:C:1999:TYR:O	1:C:2002:GLU:HG3	2.07	0.55
1:D:1801:ILE:HA	1:D:1820:ILE:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1297:TYR:HE1	1:B:1381:GLU:HG3	1.72	0.55
1:B:1300:LYS:HZ1	1:B:1374:MET:HB3	1.72	0.55
1:E:1875:LEU:HB2	1:E:1895:GLU:HG2	1.88	0.55
1:F:566:SER:O	1:F:639:HIS:NE2	2.40	0.55
1:G:401:LEU:HD22	1:G:500:ILE:HD13	1.88	0.55
1:G:749:SER:OG	1:G:750:GLU:N	2.37	0.55
1:H:643:GLN:OE1	1:H:645:ARG:NH2	2.39	0.55
1:A:1024:VAL:HG13	1:A:1041:ARG:NH1	2.22	0.55
1:A:1108:PHE:O	1:A:1112:LEU:HG	2.06	0.55
1:A:1720:TYR:HD2	1:B:1738:MET:HE3	1.72	0.55
1:C:956:ARG:HH11	1:C:1009:ASP:HA	1.72	0.55
1:D:323:ARG:HB3	1:D:527:ARG:HH11	1.71	0.55
1:D:1562:LEU:O	1:D:1566:VAL:HG23	2.07	0.55
1:B:220:GLU:OE2	1:B:224:ARG:NE	2.40	0.55
1:B:682:PRO:O	1:B:685:TYR:HB3	2.06	0.55
1:B:997:LEU:O	1:B:1001:LEU:HG	2.07	0.55
1:B:1172:ALA:O	1:B:1175:THR:OG1	2.19	0.55
1:G:607:VAL:HG21	1:G:614:GLU:O	2.07	0.55
1:G:982:ARG:NE	1:G:986:ASP:HB3	2.22	0.55
1:G:1031:SER:O	1:G:1034:PRO:HD3	2.06	0.55
1:G:1828:TYR:HB3	1:G:1849:THR:HG22	1.88	0.55
1:G:1954:LEU:HB2	1:G:2017:LEU:HD22	1.88	0.55
1:H:269:LYS:HB2	1:H:495:GLN:HB2	1.88	0.55
1:H:556:HIS:HD1	1:H:615:PHE:C	2.14	0.55
1:H:980:ILE:HG21	1:H:1027:ARG:HD3	1.89	0.55
1:A:1706:VAL:O	1:A:1709:ASN:HB2	2.07	0.55
1:D:912:LEU:O	1:D:915:GLN:HG3	2.07	0.55
1:D:1117:LEU:HD23	1:D:1135:ALA:HB1	1.89	0.55
1:D:1371:LYS:NZ	1:D:1375:GLU:OE1	2.39	0.55
1:D:1737:ILE:O	1:D:1741:SER:OG	2.25	0.55
1:B:749:SER:OG	1:B:750:GLU:N	2.37	0.55
1:B:1773:GLU:HG2	1:B:1777:THR:HG21	1.89	0.55
1:B:1872:ARG:HA	1:B:1897:THR:O	2.07	0.55
1:B:1989:LYS:HB2	1:B:2000:HIS:HE1	1.70	0.55
1:E:139:THR:HA	1:E:142:GLN:CD	2.32	0.55
1:E:400:HIS:CE1	1:E:402:ALA:HB3	2.42	0.55
1:E:798:VAL:HG13	1:E:800:LEU:HD23	1.87	0.55
1:E:1382:GLY:O	1:E:1386:THR:HG23	2.07	0.55
1:E:1425:GLY:CA	1:E:1465:ARG:HE	2.20	0.55
1:E:1438:ALA:HA	1:E:1441:ARG:NE	2.22	0.55
1:F:1464:LEU:HD22	1:F:1468:ARG:HH12	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:106:ASP:OD1	1:G:732:HIS:NE2	2.38	0.55
1:G:1603:MET:O	1:G:1607:HIS:ND1	2.39	0.55
1:H:805:PHE:CE1	1:H:912:LEU:HD13	2.42	0.55
1:H:1417:LEU:HD22	1:H:1458:LEU:HD23	1.88	0.55
1:A:220:GLU:CD	1:A:223:ARG:HH21	2.15	0.54
1:A:1421:LEU:O	1:A:1465:ARG:NH1	2.40	0.54
1:C:780:LEU:O	1:C:784:VAL:HG23	2.07	0.54
1:C:1041:ARG:O	1:C:1045:THR:HG23	2.07	0.54
1:C:1170:SER:O	1:C:1173:ARG:HG3	2.07	0.54
1:D:466:ARG:HD2	1:D:614:GLU:O	2.07	0.54
1:D:1874:THR:HG23	1:D:1896:GLU:HG2	1.88	0.54
1:B:140:ASP:OD1	1:B:141:THR:N	2.40	0.54
1:B:742:ARG:HD3	1:B:742:ARG:H	1.71	0.54
1:B:791:PRO:HG2	1:B:798:VAL:HG21	1.89	0.54
1:E:656:PHE:O	1:E:677:SER:N	2.39	0.54
1:E:1042:MET:HE1	1:E:1134:LYS:C	2.32	0.54
1:F:1024:VAL:HG21	1:F:1041:ARG:HH11	1.72	0.54
1:H:397:THR:OG1	1:H:458:ASN:O	2.15	0.54
1:H:1128:ALA:HA	1:H:1131:LEU:HD23	1.88	0.54
1:A:84:GLU:OE1	1:A:86:LEU:HD22	2.07	0.54
1:A:332:PRO:HG3	1:A:445:SER:HB2	1.89	0.54
1:A:627:VAL:HG12	1:A:662:LEU:HD13	1.88	0.54
1:A:758:ARG:HG3	1:D:1026:THR:HG21	1.88	0.54
1:A:1270:GLN:HB2	1:A:1402:THR:HG22	1.87	0.54
1:A:1409:ARG:HA	1:A:1412:VAL:HB	1.89	0.54
1:A:1749:GLY:O	1:A:1772:LYS:NZ	2.37	0.54
1:C:551:LEU:HD12	1:C:621:LEU:HG	1.89	0.54
1:C:637:PHE:HB2	1:C:655:GLY:HA3	1.88	0.54
1:C:715:SER:OG	1:C:718:HIS:N	2.40	0.54
1:C:946:LEU:HD23	1:C:951:ARG:HD2	1.88	0.54
1:D:802:ARG:O	1:D:806:GLU:HG3	2.07	0.54
1:D:1013:VAL:O	1:D:1016:LEU:HB2	2.08	0.54
1:D:1173:ARG:NH1	1:D:1174:ASP:OD1	2.40	0.54
1:D:1246:SER:O	1:D:1249:SER:OG	2.19	0.54
1:D:1856:PHE:CE1	1:D:1872:ARG:HB2	2.43	0.54
1:B:138:THR:OG1	1:B:140:ASP:OD1	2.24	0.54
1:B:260:ARG:HB3	1:B:503:ALA:HB3	1.89	0.54
1:B:1091:PRO:HA	1:B:1094:THR:HG22	1.88	0.54
1:B:1276:LEU:HG	1:B:1281:LEU:HG	1.89	0.54
1:B:1391:VAL:O	1:B:1395:THR:HG23	2.07	0.54
1:E:1501:ARG:NH2	1:E:1670:GLU:O	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1701:GLU:CD	1:E:1701:GLU:H	2.14	0.54
1:E:1701:GLU:HG3	1:E:1841:PHE:CD2	2.42	0.54
1:F:222:LEU:HB3	1:F:1435:HIS:CD2	2.43	0.54
1:F:558:LEU:HD13	1:F:707:PHE:HA	1.89	0.54
1:F:1524:HIS:CD2	1:F:1527:ARG:HH21	2.24	0.54
1:F:1599:TRP:HA	1:F:1602:ASN:HD22	1.72	0.54
1:G:250:PRO:HG2	1:G:838:TYR:HE2	1.71	0.54
1:H:138:THR:O	1:H:141:THR:OG1	2.18	0.54
1:H:1485:LEU:HG	1:H:1489:MET:HE1	1.87	0.54
1:H:1710:LEU:HA	1:H:1713:ILE:HB	1.89	0.54
1:A:55:ASP:N	1:A:55:ASP:OD1	2.41	0.54
1:A:988:GLU:HA	1:A:991:GLU:HG3	1.88	0.54
1:A:1144:CYS:O	1:A:1147:ASP:HB2	2.06	0.54
1:A:1779:LEU:HA	1:A:1782:ILE:HG22	1.89	0.54
1:C:234:LEU:HB2	1:C:1384:LEU:HD13	1.89	0.54
1:C:259:GLN:NE2	1:C:446:PHE:HD2	2.06	0.54
1:C:266:LEU:HD23	1:C:323:ARG:HH12	1.72	0.54
1:C:566:SER:O	1:C:639:HIS:NE2	2.40	0.54
1:C:1104:ARG:NH1	1:C:1111:GLY:HA3	2.22	0.54
1:C:1113:LEU:O	1:C:1117:LEU:HG	2.07	0.54
1:C:1503:LYS:NZ	1:C:1553:ASP:OD1	2.40	0.54
1:C:1594:ASP:HA	1:C:1678:PHE:CE2	2.42	0.54
1:D:320:THR:OG1	1:D:595:CYS:N	2.38	0.54
1:D:1052:GLU:HG3	1:D:1053:HIS:H	1.73	0.54
1:B:1028:LEU:HB3	1:B:1041:ARG:HH22	1.72	0.54
1:B:1500:ALA:HA	1:B:1503:LYS:HG2	1.89	0.54
1:B:1963:LEU:HD12	1:B:1967:HIS:HE1	1.71	0.54
1:E:386:ARG:NH2	1:E:643:GLN:O	2.41	0.54
1:F:1849:THR:HA	1:F:1876:LEU:O	2.08	0.54
1:H:99:ILE:HD12	1:H:113:VAL:HG11	1.89	0.54
1:H:1029:GLN:H	1:H:1029:GLN:CD	2.15	0.54
1:H:1157:VAL:O	1:H:1160:ARG:HG3	2.08	0.54
1:H:1442:ALA:O	1:H:1446:LYS:HG2	2.07	0.54
1:A:586:LEU:HA	1:A:600:ARG:NH1	2.21	0.54
1:A:719:PRO:HG2	1:A:721:ASP:H	1.72	0.54
1:A:757:LEU:O	1:A:761:LEU:HG	2.07	0.54
1:C:137:VAL:HG23	1:C:145:ARG:HH22	1.73	0.54
1:D:57:GLU:H	1:D:57:GLU:CD	2.15	0.54
1:B:788:ILE:HG23	1:B:789:ARG:HD3	1.88	0.54
1:B:961:PRO:O	1:B:965:LEU:HG	2.08	0.54
1:B:1413:LEU:HA	1:B:1416:VAL:HB	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:107:ALA:HB3	1:E:732:HIS:CD2	2.43	0.54
1:E:1471:GLY:HA3	1:E:1520:PHE:CD1	2.42	0.54
1:E:1686:LEU:HG	1:E:1689:GLN:NE2	2.23	0.54
1:E:1945:GLY:O	1:E:1948:GLU:HG3	2.07	0.54
1:E:1995:ASP:OD1	1:E:1996:GLN:N	2.41	0.54
1:F:1525:LEU:HD23	1:F:1562:LEU:HD22	1.90	0.54
1:G:53:PRO:HG3	1:G:1018:ARG:HD2	1.88	0.54
1:G:556:HIS:NE2	1:G:710:GLU:OE1	2.40	0.54
1:G:568:ARG:HE	1:G:569:ASN:HD21	1.56	0.54
1:G:587:PRO:HB2	1:G:598:PHE:HB3	1.88	0.54
1:G:1564:ASP:O	1:G:1567:LYS:HG2	2.08	0.54
1:H:513:PRO:HG2	1:H:533:LEU:HG	1.88	0.54
1:H:791:PRO:HD2	1:H:798:VAL:HB	1.90	0.54
1:H:1473:ARG:NH2	1:H:1519:ASN:O	2.41	0.54
1:H:1694:PHE:HB3	1:H:1699:LEU:HB2	1.88	0.54
1:H:1761:PHE:HB3	1:H:1764:LEU:HB2	1.89	0.54
1:H:1790:TYR:HB3	1:H:1799:VAL:HG22	1.89	0.54
1:A:247:CYS:SG	1:A:828:HIS:NE2	2.78	0.54
1:A:577:MET:SD	1:A:582:PRO:HA	2.47	0.54
1:A:1175:THR:C	1:A:1179:LEU:HG	2.33	0.54
1:C:216:ASP:OD1	1:C:217:ARG:N	2.40	0.54
1:C:553:VAL:HG12	1:C:555:PRO:HD3	1.90	0.54
1:C:698:ARG:HD3	1:C:699:TRP:N	2.22	0.54
1:C:782:LYS:O	1:C:785:ARG:HG2	2.07	0.54
1:C:1391:VAL:O	1:C:1395:THR:HG23	2.06	0.54
1:C:1573:GLU:HG2	1:C:1793:ARG:HH22	1.72	0.54
1:C:1700:TYR:HB2	1:C:1737:ILE:HD11	1.89	0.54
1:D:259:GLN:HG2	1:D:329:VAL:HB	1.89	0.54
1:D:810:HIS:O	1:D:813:SER:OG	2.23	0.54
1:D:1272:TRP:CZ2	1:D:1276:LEU:HD22	2.42	0.54
1:D:1608:ALA:HA	1:D:1613:HIS:HD2	1.72	0.54
1:B:687:VAL:HG13	1:B:688:LEU:HG	1.89	0.54
1:B:722:PRO:O	1:B:726:LYS:HG3	2.06	0.54
1:B:1548:ALA:O	1:B:1552:GLN:HG2	2.07	0.54
1:B:1729:LYS:HA	1:B:1732:GLU:CD	2.33	0.54
1:E:1637:HIS:H	1:E:1640:LEU:HG	1.72	0.54
1:F:86:LEU:O	1:F:121:VAL:HA	2.07	0.54
1:F:490:ARG:HD3	1:F:490:ARG:H	1.73	0.54
1:F:916:TRP:CZ2	1:F:934:PHE:HB3	2.31	0.54
1:F:1422:TYR:HD1	1:F:1465:ARG:HH22	1.55	0.54
1:F:1909:MET:O	1:F:1913:THR:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1958:PRO:HG3	1:F:1967:HIS:CE1	2.42	0.54
1:H:1132:HIS:O	1:H:1136:ILE:HG12	2.08	0.54
1:A:396:TRP:O	1:A:460:PHE:N	2.35	0.54
1:A:461:LYS:HB3	1:A:490:ARG:HE	1.72	0.54
1:A:1039:THR:O	1:A:1042:MET:HB3	2.07	0.54
1:A:1466:LEU:HD13	1:A:1485:LEU:HD23	1.90	0.54
1:A:1838:VAL:O	1:A:1843:ARG:NH1	2.40	0.54
1:A:1870:HIS:CE1	1:A:1901:PRO:HD3	2.42	0.54
1:C:811:VAL:O	1:C:815:VAL:HG13	2.08	0.54
1:C:1635:GLU:HB3	1:C:1637:HIS:CE1	2.43	0.54
1:C:1731:GLN:HG3	1:D:1731:GLN:HG3	1.89	0.54
1:D:944:LEU:HA	1:D:947:LEU:HD12	1.88	0.54
1:D:983:VAL:HA	1:D:986:ASP:O	2.08	0.54
1:D:1292:LEU:HD21	1:D:1392:VAL:HG21	1.90	0.54
1:D:1856:PHE:HE1	1:D:1872:ARG:HB2	1.73	0.54
1:B:617:GLU:HG2	1:B:619:PHE:HE1	1.73	0.54
1:B:815:VAL:O	1:B:818:SER:OG	2.24	0.54
1:B:983:VAL:HA	1:B:986:ASP:O	2.07	0.54
1:B:1546:THR:O	1:B:1550:GLN:HB3	2.08	0.54
1:E:1029:GLN:H	1:E:1029:GLN:CD	2.14	0.54
1:F:806:GLU:O	1:F:810:HIS:ND1	2.40	0.54
1:F:1785:ARG:O	1:F:1789:PHE:HB2	2.08	0.54
1:G:511:LEU:N	1:G:529:THR:O	2.40	0.54
1:G:1026:THR:O	1:G:1029:GLN:NE2	2.38	0.54
1:H:90:ARG:NH1	1:H:115:MET:O	2.40	0.54
1:H:554:TYR:HB3	1:H:556:HIS:NE2	2.23	0.54
1:H:1508:MET:SD	1:H:1594:ASP:HB3	2.48	0.54
1:H:1756:PHE:CD2	1:H:1764:LEU:HB3	2.43	0.54
1:A:994:ASN:HA	1:A:997:LEU:HB3	1.89	0.54
1:A:1040:LEU:HA	1:A:1043:GLU:OE1	2.08	0.54
1:A:1178:ARG:HG3	1:A:1244:ALA:HA	1.88	0.54
1:C:81:ASP:HB2	1:C:126:ARG:CZ	2.38	0.54
1:C:120:TRP:HZ3	1:C:839:ALA:HB2	1.73	0.54
1:C:259:GLN:HG2	1:C:329:VAL:HB	1.89	0.54
1:C:639:HIS:HB3	1:C:652:THR:OG1	2.07	0.54
1:D:694:LEU:HB2	1:D:697:MET:HB2	1.89	0.54
1:D:1582:MET:HE2	1:D:1603:MET:HE3	1.90	0.54
1:D:1957:ILE:HG12	1:D:2022:LEU:HD22	1.89	0.54
1:B:590:PHE:O	1:B:620:LYS:NZ	2.40	0.54
1:B:927:ILE:O	1:B:931:ALA:CB	2.51	0.54
1:E:805:PHE:CE1	1:E:912:LEU:HD13	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:560:PHE:CE1	1:F:700:VAL:HG11	2.42	0.54
1:F:1060:PRO:HB2	1:F:1160:ARG:HD3	1.88	0.54
1:F:1417:LEU:HB3	1:F:1458:LEU:HD11	1.90	0.54
1:G:203:LEU:HB3	1:G:206:LEU:HD23	1.89	0.54
1:G:1428:GLN:OE1	1:G:1433:LEU:HD21	2.07	0.54
1:G:1804:ASP:O	1:G:1821:GLN:NE2	2.41	0.54
1:H:46:PRO:HG2	1:H:49:GLU:HB2	1.90	0.54
1:H:731:VAL:HA	1:H:734:LEU:HD12	1.90	0.54
1:H:1526:ARG:HG3	1:H:1559:HIS:CE1	2.41	0.54
1:H:1968:ASN:HA	1:H:1971:ARG:NE	2.20	0.54
1:A:108:GLN:HG3	1:A:732:HIS:CD2	2.43	0.54
1:A:733:VAL:HG11	1:A:748:LEU:HD23	1.90	0.54
1:A:782:LYS:HA	1:A:785:ARG:NH1	2.22	0.54
1:C:660:PRO:C	1:C:668:ARG:HE	2.15	0.54
1:C:1711:ILE:O	1:C:1715:GLU:HB2	2.08	0.54
1:C:1835:LYS:HZ1	1:E:1662:ASP:HB2	1.73	0.54
1:C:1954:LEU:HD23	1:C:1967:HIS:HD2	1.72	0.54
1:D:1468:ARG:HA	1:D:1520:PHE:HZ	1.73	0.54
1:D:1471:GLY:HA3	1:D:1520:PHE:CD1	2.43	0.54
1:D:1636:ASP:HA	1:D:1640:LEU:HD21	1.89	0.54
1:D:1773:GLU:CD	1:D:1774:PRO:HD2	2.33	0.54
1:B:269:LYS:HE3	1:B:497:LYS:N	2.23	0.54
1:B:931:ALA:HA	1:B:934:PHE:CD2	2.37	0.54
1:B:1001:LEU:HD23	1:B:1004:LEU:HD12	1.89	0.54
1:E:1581:LEU:HD23	1:E:1584:ARG:HH11	1.72	0.54
1:E:1720:TYR:OH	1:H:1737:ILE:HG22	2.08	0.54
1:F:401:LEU:HD22	1:F:500:ILE:HD13	1.89	0.54
1:G:561:SER:H	1:G:612:SER:HB3	1.72	0.54
1:G:1425:GLY:HA3	1:G:1465:ARG:HD3	1.90	0.54
1:G:1504:MET:O	1:G:1508:MET:HG2	2.07	0.54
1:G:1700:TYR:CB	1:G:1737:ILE:HD11	2.38	0.54
1:H:1828:TYR:HB3	1:H:1849:THR:HG22	1.90	0.54
1:H:1969:LYS:HA	1:H:1972:LEU:HD12	1.89	0.54
1:A:294:GLU:OE1	1:A:533:LEU:N	2.37	0.54
1:A:722:PRO:O	1:A:726:LYS:HG3	2.07	0.54
1:A:1947:LEU:O	1:A:1951:GLN:HG2	2.08	0.54
1:C:567:VAL:HG13	1:C:639:HIS:HB2	1.89	0.54
1:C:1024:VAL:HG21	1:C:1041:ARG:NH1	2.23	0.54
1:C:1503:LYS:NZ	1:C:1554:LEU:HB2	2.23	0.54
1:D:105:LEU:HD22	1:D:625:ALA:HB2	1.90	0.54
1:D:294:GLU:CD	1:D:533:LEU:HB2	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:980:ILE:HG21	1:D:1027:ARG:HD2	1.89	0.54
1:D:1403:VAL:HB	1:D:1409:ARG:NH1	2.23	0.54
1:D:1543:ARG:HH21	1:D:1547:PHE:HD2	1.56	0.54
1:B:267:SER:O	1:B:496:LEU:HD12	2.08	0.54
1:B:1104:ARG:O	1:B:1108:PHE:CA	2.55	0.54
1:B:1403:VAL:HG11	1:B:1412:VAL:HG21	1.90	0.54
1:E:512:SER:OG	1:E:516:LEU:N	2.28	0.54
1:E:954:THR:O	1:E:959:ARG:NH2	2.40	0.54
1:E:1725:ALA:HB1	1:E:1729:LYS:HZ1	1.72	0.54
1:E:1988:ASN:O	1:E:1992:ILE:HG12	2.08	0.54
1:F:553:VAL:HG22	1:F:711:LEU:HD12	1.89	0.54
1:F:1121:LEU:HA	1:F:1132:HIS:CD2	2.43	0.54
1:F:1441:ARG:HD2	1:F:1487:LEU:HD12	1.90	0.54
1:G:663:GLN:HB3	1:G:666:ARG:HG2	1.90	0.54
1:G:1535:TYR:HA	1:G:1538:GLU:HG2	1.90	0.54
1:H:1028:LEU:HD11	1:H:1038:LEU:HD21	1.90	0.54
1:H:1876:LEU:HD13	1:H:1894:ARG:HA	1.90	0.54
1:A:731:VAL:HA	1:A:734:LEU:HD12	1.90	0.54
1:A:1267:ALA:O	1:A:1271:ARG:HD3	2.08	0.54
1:A:1482:SER:HA	1:A:1485:LEU:HD12	1.90	0.54
1:A:1568:MET:HA	1:A:1578:LEU:HD11	1.90	0.54
1:C:955:PRO:HG2	1:C:958:LEU:HD21	1.90	0.54
1:C:979:VAL:HG21	1:C:994:ASN:HB3	1.90	0.54
1:C:1039:THR:O	1:C:1043:GLU:HG2	2.07	0.54
1:C:1285:LEU:HA	1:C:1288:LEU:HD12	1.90	0.54
1:C:1856:PHE:N	1:C:1869:GLN:HE22	2.06	0.54
1:D:669:THR:HB	1:D:711:LEU:HD22	1.89	0.54
1:D:784:VAL:HA	1:D:787:VAL:HG22	1.88	0.54
1:D:1109:LEU:H	1:D:1109:LEU:HD12	1.73	0.54
1:D:1630:TYR:HA	1:D:1633:LEU:HD12	1.89	0.54
1:B:231:LEU:HB2	1:B:1262:LYS:HZ3	1.73	0.54
1:B:1052:GLU:HG3	1:B:1053:HIS:H	1.73	0.54
1:B:1706:VAL:O	1:B:1709:ASN:HB2	2.08	0.54
1:E:819:LEU:HD22	1:E:822:ALA:HB3	1.90	0.54
1:E:1709:ASN:O	1:E:1712:PRO:HD2	2.08	0.54
1:F:1600:LEU:HD13	1:F:1623:ALA:HB2	1.90	0.54
1:F:1931:GLN:HG2	1:F:1988:ASN:ND2	2.23	0.54
1:G:1012:PHE:O	1:G:1015:SER:OG	2.16	0.54
1:H:266:LEU:HG	1:H:498:ILE:HA	1.90	0.54
1:A:393:PRO:HD3	1:A:466:ARG:NH2	2.22	0.53
1:A:1096:MET:HG2	1:A:1166:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1734:PHE:CZ	1:B:1723:LEU:HD22	2.43	0.53
1:A:1878:THR:HB	1:A:1889:ILE:HG13	1.89	0.53
1:C:1013:VAL:O	1:C:1016:LEU:HB2	2.08	0.53
1:C:1104:ARG:HH12	1:C:1108:PHE:HA	1.73	0.53
1:C:1122:GLU:HB2	1:C:1124:GLU:HG2	1.89	0.53
1:C:1614:ALA:HA	1:C:1694:PHE:CE1	2.42	0.53
1:D:45:VAL:HG11	1:D:1101:GLY:HA3	1.90	0.53
1:D:521:TYR:HE2	1:D:524:PRO:HA	1.73	0.53
1:D:726:LYS:O	1:D:730:LEU:HB2	2.08	0.53
1:D:1415:ALA:HA	1:D:1418:LYS:HE2	1.90	0.53
1:D:1727:HIS:O	1:D:1731:GLN:NE2	2.26	0.53
1:D:1732:GLU:HG2	1:D:1736:LYS:HZ1	1.73	0.53
1:B:976:GLY:HA2	1:B:979:VAL:HG12	1.89	0.53
1:B:1622:HIS:NE2	1:B:1653:ASN:O	2.24	0.53
1:B:1772:LYS:HB2	1:B:1882:PHE:CE2	2.43	0.53
1:E:1452:PHE:CD1	1:E:1456:THR:HG23	2.43	0.53
1:E:1884:TYR:CE2	1:E:1885:ILE:HG12	2.42	0.53
1:F:93:ARG:NH2	1:F:255:GLU:OE1	2.41	0.53
1:F:761:LEU:HD23	1:F:764:LEU:HD21	1.90	0.53
1:F:1514:VAL:HB	1:F:1565:THR:OG1	2.07	0.53
1:G:719:PRO:HD2	1:G:725:ASP:CG	2.34	0.53
1:G:1132:HIS:O	1:G:1136:ILE:HG23	2.08	0.53
1:G:1756:PHE:HB3	1:G:1761:PHE:CD2	2.42	0.53
1:G:1786:LEU:HD22	1:G:1822:ILE:HD11	1.90	0.53
1:H:755:GLN:HA	1:H:758:ARG:NE	2.23	0.53
1:H:1246:SER:HG	1:H:1249:SER:HG	1.56	0.53
1:H:1907:GLU:HB2	1:H:1911:LYS:HZ3	1.74	0.53
1:A:231:LEU:HD13	1:A:1259:TRP:HD1	1.72	0.53
1:A:956:ARG:HH22	1:A:1007:LEU:HD13	1.73	0.53
1:A:1765:ASP:O	1:A:1767:GLN:NE2	2.42	0.53
1:C:125:ARG:HB2	1:C:128:GLN:HB2	1.89	0.53
1:C:1004:LEU:O	1:C:1008:VAL:HG12	2.08	0.53
1:C:1025:ALA:HA	1:C:1028:LEU:HD12	1.89	0.53
1:C:1945:GLY:O	1:C:1948:GLU:HG3	2.08	0.53
1:D:82:ASP:OD1	1:D:125:ARG:HD3	2.08	0.53
1:D:566:SER:O	1:D:639:HIS:NE2	2.41	0.53
1:D:815:VAL:O	1:D:818:SER:OG	2.16	0.53
1:D:1146:HIS:HA	1:D:1149:ASP:OD2	2.07	0.53
1:D:1503:LYS:NZ	1:D:1554:LEU:HB2	2.24	0.53
1:D:1767:GLN:HB3	1:D:1890:ARG:HE	1.73	0.53
1:E:89:PRO:HA	1:E:119:ASP:OD1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:266:LEU:HG	1:E:498:ILE:HA	1.90	0.53
1:E:832:LEU:HB2	1:E:932:TRP:HH2	1.72	0.53
1:E:1267:ALA:HA	1:E:1270:GLN:NE2	2.24	0.53
1:E:1582:MET:HE3	1:E:1603:MET:HE1	1.89	0.53
1:F:578:THR:HG23	1:F:584:GLN:NE2	2.23	0.53
1:F:1255:ALA:HB2	1:F:1295:PHE:HZ	1.73	0.53
1:F:1438:ALA:HA	1:F:1441:ARG:HE	1.74	0.53
1:G:86:LEU:O	1:G:121:VAL:HA	2.07	0.53
1:G:972:VAL:HA	1:G:975:VAL:HG12	1.90	0.53
1:G:1039:THR:O	1:G:1043:GLU:HG2	2.07	0.53
1:G:1508:MET:CE	1:G:1594:ASP:HB3	2.38	0.53
1:H:1017:VAL:HG12	1:H:1021:TYR:CE1	2.43	0.53
1:A:968:ILE:O	1:A:971:LEU:HB3	2.08	0.53
1:A:1461:ASP:HA	1:A:1464:LEU:HD12	1.89	0.53
1:A:1522:GLU:CD	1:A:1566:VAL:HG21	2.33	0.53
1:A:1989:LYS:HB2	1:A:2000:HIS:CE1	2.43	0.53
1:C:262:LEU:N	1:C:501:SER:O	2.27	0.53
1:C:999:PHE:O	1:C:1002:SER:OG	2.20	0.53
1:C:1001:LEU:HA	1:C:1004:LEU:HD12	1.91	0.53
1:C:1020:HIS:O	1:C:1024:VAL:HG13	2.07	0.53
1:C:1706:VAL:O	1:C:1709:ASN:HB3	2.08	0.53
1:D:935:PHE:HA	1:D:938:MET:SD	2.48	0.53
1:D:1493:PHE:HZ	1:D:1545:SER:HB3	1.74	0.53
1:D:1767:GLN:HB3	1:D:1890:ARG:NE	2.24	0.53
1:D:1947:LEU:O	1:D:1951:GLN:HG2	2.08	0.53
1:D:1963:LEU:HB3	1:D:1967:HIS:HE1	1.73	0.53
1:B:268:LEU:HD11	1:B:270:PHE:CE2	2.44	0.53
1:B:466:ARG:HD3	1:B:616:TYR:HD1	1.74	0.53
1:B:754:GLU:O	1:B:758:ARG:HG2	2.08	0.53
1:B:754:GLU:O	1:B:757:LEU:HB3	2.08	0.53
1:E:231:LEU:HB3	1:E:1259:TRP:CD1	2.40	0.53
1:E:518:ILE:O	1:E:521:TYR:HB2	2.09	0.53
1:E:1051:HIS:CE1	1:E:1053:HIS:H	2.26	0.53
1:E:1451:LEU:O	1:E:1456:THR:HA	2.07	0.53
1:F:281:LEU:HB2	1:F:296:PHE:HD2	1.73	0.53
1:F:1827:PRO:HB2	1:F:1829:PHE:CZ	2.44	0.53
1:G:741:PHE:HB3	1:G:748:LEU:HB3	1.90	0.53
1:G:1005:LEU:HG	1:G:1013:VAL:HG11	1.89	0.53
1:H:979:VAL:HG23	1:H:982:ARG:NH1	2.23	0.53
1:H:1051:HIS:CE1	1:H:1053:HIS:H	2.26	0.53
1:H:1120:ALA:HA	1:H:1131:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1178:ARG:HG2	1:H:1245:LEU:HD12	1.90	0.53
1:A:112:ALA:HA	1:A:778:HIS:HE1	1.73	0.53
1:A:1481:ALA:O	1:A:1484:SER:OG	2.24	0.53
1:A:1514:VAL:HG21	1:A:1565:THR:HG21	1.90	0.53
1:A:1600:LEU:O	1:A:1603:MET:HB2	2.09	0.53
1:C:1015:SER:O	1:C:1018:ARG:HD3	2.08	0.53
1:D:555:PRO:HD2	1:D:619:PHE:CE2	2.44	0.53
1:D:698:ARG:HD3	1:D:699:TRP:N	2.23	0.53
1:D:901:ARG:HE	1:D:902:ILE:HG23	1.72	0.53
1:D:1024:VAL:O	1:D:1028:LEU:HG	2.08	0.53
1:D:1878:THR:OG1	1:D:1880:HIS:O	2.24	0.53
1:B:116:TYR:HH	1:B:777:HIS:HE2	1.54	0.53
1:B:553:VAL:H	1:B:619:PHE:HB2	1.73	0.53
1:B:581:ASP:CG	1:B:583:SER:HG	2.15	0.53
1:B:1041:ARG:O	1:B:1045:THR:HG23	2.08	0.53
1:B:1903:GLU:HA	1:B:1906:ILE:HD12	1.89	0.53
1:B:1906:ILE:HG12	1:B:1970:LEU:HB2	1.90	0.53
1:E:790:PRO:HG2	1:E:797:ILE:HD11	1.90	0.53
1:E:791:PRO:HD2	1:E:798:VAL:HB	1.89	0.53
1:E:1753:ARG:HG3	1:E:1823:THR:O	2.07	0.53
1:E:1788:GLU:HA	1:E:1791:THR:HB	1.90	0.53
1:F:143:ARG:O	1:F:147:LYS:HG2	2.09	0.53
1:F:552:TYR:O	1:F:711:LEU:HA	2.09	0.53
1:F:747:VAL:O	1:F:752:ASN:ND2	2.41	0.53
1:F:1110:ALA:O	1:F:1114:LEU:HG	2.08	0.53
1:H:345:VAL:HA	1:H:391:ARG:NH1	2.23	0.53
1:H:789:ARG:NH2	1:H:846:GLU:OE2	2.31	0.53
1:H:1492:ASN:O	1:H:1497:HIS:N	2.42	0.53
1:H:1539:ASP:O	1:H:1543:ARG:NH1	2.41	0.53
1:A:114:GLU:O	1:A:118:GLU:HG2	2.09	0.53
1:A:478:ASP:OD1	1:A:480:ARG:NH1	2.42	0.53
1:C:285:ASP:OD2	1:C:288:GLU:N	2.38	0.53
1:C:301:ASN:HB3	1:C:305:MET:HB2	1.90	0.53
1:C:835:TYR:O	1:C:840:PHE:N	2.42	0.53
1:C:1393:LEU:HD11	1:C:1436:GLY:HA2	1.89	0.53
1:C:1530:LYS:NZ	1:E:2024:GLN:HE21	2.06	0.53
1:D:789:ARG:HA	1:D:903:LEU:HD12	1.91	0.53
1:D:1594:ASP:HA	1:D:1678:PHE:CE2	2.43	0.53
1:B:1009:ASP:HB3	1:B:1012:PHE:CD2	2.40	0.53
1:B:1419:VAL:HA	1:B:1422:TYR:HD2	1.73	0.53
1:E:99:ILE:HD12	1:E:113:VAL:HG11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:386:ARG:NH2	1:E:641:SER:O	2.42	0.53
1:E:1018:ARG:HA	1:E:1021:TYR:CD1	2.43	0.53
1:E:1022:LYS:HB3	1:G:758:ARG:HH22	1.74	0.53
1:E:1034:PRO:HA	1:E:1037:LEU:HD12	1.91	0.53
1:F:575:GLN:NE2	1:F:601:GLU:HG3	2.24	0.53
1:F:691:ASP:O	1:F:703:HIS:NE2	2.40	0.53
1:F:1490:ARG:NH1	1:F:1491:GLN:OE1	2.37	0.53
1:F:1733:ALA:O	1:F:1737:ILE:HG13	2.08	0.53
1:G:131:SER:N	1:G:1052:GLU:HB3	2.23	0.53
1:G:961:PRO:HB3	1:G:963:ARG:CZ	2.38	0.53
1:G:1278:LEU:HG	1:G:1408:ALA:HB3	1.90	0.53
1:G:1451:LEU:HD23	1:G:1458:LEU:HG	1.89	0.53
1:H:724:LEU:HD11	1:H:772:LEU:HD23	1.90	0.53
1:H:1945:GLY:O	1:H:1948:GLU:HG3	2.07	0.53
1:A:140:ASP:OD1	1:A:141:THR:N	2.40	0.53
1:C:466:ARG:HD2	1:C:614:GLU:O	2.09	0.53
1:C:1492:ASN:O	1:C:1497:HIS:N	2.38	0.53
1:C:1865:GLU:OE1	1:C:1867:PRO:HD2	2.09	0.53
1:D:109:VAL:HG12	1:D:717:VAL:HG11	1.91	0.53
1:D:575:GLN:NE2	1:D:600:ARG:O	2.40	0.53
1:D:907:LEU:O	1:D:910:GLU:HG2	2.08	0.53
1:D:1283:ARG:HH21	1:D:1286:ASP:HB2	1.73	0.53
1:D:1751:TYR:HA	1:D:1771:TYR:O	2.08	0.53
1:D:1756:PHE:HB3	1:D:1761:PHE:CD2	2.44	0.53
1:B:107:ALA:HB3	1:B:732:HIS:CD2	2.43	0.53
1:B:322:ALA:HA	1:B:527:ARG:HH12	1.74	0.53
1:B:577:MET:SD	1:B:582:PRO:HA	2.49	0.53
1:B:1557:ASN:O	1:B:1560:MET:HG2	2.09	0.53
1:B:2005:ARG:HH11	1:B:2009:ARG:HH12	1.56	0.53
1:E:234:LEU:HB3	1:E:1384:LEU:HD12	1.91	0.53
1:E:281:LEU:HB2	1:E:296:PHE:HB3	1.91	0.53
1:E:581:ASP:OD2	1:E:584:GLN:HG3	2.08	0.53
1:E:1738:MET:HA	1:E:1741:SER:HG	1.73	0.53
1:F:107:ALA:HB3	1:F:732:HIS:NE2	2.22	0.53
1:F:753:VAL:O	1:F:756:GLU:HG3	2.08	0.53
1:F:1136:ILE:HG22	1:F:1253:LEU:HD13	1.89	0.53
1:F:1422:TYR:HD1	1:F:1465:ARG:NH2	2.07	0.53
1:G:137:VAL:HA	1:G:141:THR:HG21	1.89	0.53
1:G:141:THR:HB	1:G:145:ARG:NH1	2.23	0.53
1:G:927:ILE:O	1:G:931:ALA:CB	2.56	0.53
1:H:518:ILE:O	1:H:521:TYR:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:260:ARG:NH1	1:A:505:GLU:HA	2.24	0.53
1:A:1159:ALA:O	1:A:1163:GLU:HG3	2.08	0.53
1:A:1714:LEU:HD23	1:A:1717:HIS:CD2	2.43	0.53
1:A:1920:THR:HG21	1:A:1983:ASP:HB3	1.91	0.53
1:C:480:ARG:O	1:C:481:ARG:NE	2.42	0.53
1:C:1041:ARG:NH2	1:C:1044:PHE:CD2	2.75	0.53
1:C:1370:THR:N	1:C:1373:GLU:HB3	2.23	0.53
1:C:1510:LEU:HD23	1:C:1562:LEU:HD21	1.90	0.53
1:D:974:SER:HA	1:D:977:LEU:HD12	1.91	0.53
1:D:1958:PRO:HG3	1:D:1967:HIS:CG	2.44	0.53
1:B:1968:ASN:O	1:B:1971:ARG:HG2	2.08	0.53
1:E:1599:TRP:HA	1:E:1602:ASN:OD1	2.09	0.53
1:E:1606:LYS:O	1:E:1609:GLU:HG3	2.09	0.53
1:E:1760:HIS:CE1	1:E:1798:VAL:HG21	2.43	0.53
1:F:606:VAL:HG21	1:F:640:VAL:HG11	1.90	0.53
1:G:548:ARG:O	1:G:548:ARG:HD2	2.08	0.53
1:G:974:SER:HA	1:G:977:LEU:HD12	1.90	0.53
1:G:1950:ALA:CB	1:G:2017:LEU:HD13	2.39	0.53
1:H:656:PHE:O	1:H:677:SER:N	2.36	0.53
1:H:991:GLU:OE2	1:H:992:HIS:ND1	2.41	0.53
1:H:1024:VAL:HG21	1:H:1041:ARG:HD3	1.91	0.53
1:H:1278:LEU:HA	1:H:1281:LEU:HD12	1.90	0.53
1:H:1475:SER:O	1:H:1479:THR:HG23	2.08	0.53
1:H:1729:LYS:O	1:H:1732:GLU:HG3	2.09	0.53
1:A:138:THR:OG1	1:A:140:ASP:OD1	2.25	0.53
1:A:473:PHE:HA	1:A:476:LEU:HD12	1.90	0.53
1:A:1565:THR:O	1:A:1568:MET:HB2	2.09	0.53
1:A:1800:GLU:HB3	1:A:1819:TYR:CD1	2.43	0.53
1:A:1968:ASN:O	1:A:1971:ARG:HG2	2.09	0.53
1:C:834:ALA:O	1:C:838:TYR:HB2	2.08	0.53
1:C:1494:GLU:O	1:C:1497:HIS:NE2	2.41	0.53
1:D:285:ASP:OD2	1:D:288:GLU:N	2.40	0.53
1:D:581:ASP:OD2	1:D:583:SER:OG	2.20	0.53
1:D:811:VAL:O	1:D:815:VAL:HG13	2.09	0.53
1:D:1558:LEU:O	1:D:1562:LEU:HG	2.09	0.53
1:D:1845:TYR:HA	1:D:1883:PRO:CD	2.39	0.53
1:B:473:PHE:HA	1:B:476:LEU:HD12	1.90	0.53
1:E:1024:VAL:HG11	1:E:1041:ARG:HD2	1.90	0.53
1:E:1475:SER:O	1:E:1479:THR:HG23	2.08	0.53
1:E:1690:ALA:HB1	1:E:1694:PHE:CZ	2.44	0.53
1:E:1989:LYS:HE2	1:E:2000:HIS:CE1	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:773:VAL:HA	1:F:776:SER:HB3	1.90	0.53
1:G:1578:LEU:O	1:G:1581:LEU:HG	2.09	0.53
1:H:281:LEU:HB2	1:H:296:PHE:HB3	1.91	0.53
1:H:346:LEU:HB3	1:H:387:LEU:HB3	1.90	0.53
1:A:469:ASP:HA	1:A:472:LEU:HB3	1.91	0.53
1:A:570:LEU:HD23	1:A:639:HIS:HA	1.89	0.53
1:C:535:PHE:CD1	1:C:536:PRO:HD2	2.44	0.53
1:C:724:LEU:O	1:C:727:PHE:HB3	2.09	0.53
1:C:1720:TYR:HB2	1:D:1734:PHE:HZ	1.73	0.53
1:C:1765:ASP:OD2	1:C:1766:GLU:HG2	2.09	0.53
1:C:1988:ASN:ND2	1:C:2000:HIS:HD2	2.07	0.53
1:D:331:TYR:HD2	1:D:537:ALA:HB3	1.74	0.53
1:D:607:VAL:HB	1:D:613:PRO:HB3	1.91	0.53
1:D:757:LEU:O	1:D:761:LEU:HG	2.09	0.53
1:D:1013:VAL:HA	1:D:1016:LEU:HD12	1.90	0.53
1:D:1021:TYR:OH	1:D:1045:THR:HG22	2.09	0.53
1:D:1587:ARG:NH1	1:D:1657:GLU:OE1	2.42	0.53
1:B:287:ARG:H	1:B:335:ASP:HB3	1.74	0.53
1:B:504:PRO:HG2	1:B:507:PRO:HA	1.90	0.53
1:B:1603:MET:O	1:B:1607:HIS:ND1	2.42	0.53
1:E:1449:GLU:HB3	1:E:1453:GLU:HG2	1.91	0.53
1:E:1729:LYS:HA	1:E:1732:GLU:HG3	1.91	0.53
1:E:1733:ALA:O	1:E:1737:ILE:HG12	2.08	0.53
1:F:206:LEU:HD12	1:F:1487:LEU:HD11	1.91	0.53
1:F:1727:HIS:HE1	1:G:1731:GLN:HE22	1.56	0.53
1:G:1730:LEU:HD22	1:G:1731:GLN:HE22	1.74	0.53
1:G:1827:PRO:HB2	1:G:1829:PHE:CZ	2.44	0.53
1:H:137:VAL:HG11	1:H:238:PRO:HD2	1.89	0.53
1:H:1270:GLN:HG3	1:H:1398:ILE:HG23	1.91	0.53
1:H:1284:LEU:O	1:H:1288:LEU:HG	2.08	0.53
1:H:1626:LEU:HD13	1:H:1657:GLU:HG3	1.91	0.53
1:H:1751:TYR:HA	1:H:1771:TYR:O	2.08	0.53
1:A:285:ASP:OD1	1:A:286:VAL:N	2.42	0.53
1:A:1401:GLN:HA	1:A:1404:MET:HE1	1.91	0.53
1:A:1451:LEU:HD23	1:A:1458:LEU:HB3	1.91	0.53
1:A:1490:ARG:O	1:A:1493:PHE:HB3	2.08	0.53
1:C:332:PRO:HB2	1:C:444:CYS:O	2.08	0.53
1:C:555:PRO:HD2	1:C:619:PHE:CD2	2.44	0.53
1:C:1176:LEU:HA	1:C:1179:LEU:HD12	1.91	0.53
1:C:1178:ARG:HG2	1:C:1244:ALA:HA	1.91	0.53
1:C:1576:GLU:OE2	1:C:1888:ARG:HD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1753:ARG:CZ	1:C:1821:GLN:HG2	2.39	0.53
1:D:142:GLN:O	1:D:146:GLN:NE2	2.42	0.53
1:D:284:TYR:O	1:D:337:PHE:N	2.37	0.53
1:D:633:LEU:HG	1:D:661:LEU:HD11	1.91	0.53
1:D:952:LEU:O	1:D:959:ARG:NH2	2.42	0.53
1:D:1468:ARG:HA	1:D:1520:PHE:CZ	2.44	0.53
1:B:159:SER:OG	1:B:1473:ARG:NH2	2.34	0.53
1:B:340:ILE:HD13	1:B:496:LEU:HD23	1.90	0.53
1:B:539:GLU:N	1:B:539:GLU:OE2	2.40	0.53
1:B:777:HIS:HB2	1:B:835:TYR:CE1	2.44	0.53
1:B:1018:ARG:HG2	1:B:1022:LYS:HZ1	1.73	0.53
1:B:1105:GLN:HA	1:B:1108:PHE:HD1	1.74	0.53
1:B:1267:ALA:O	1:B:1271:ARG:HD3	2.08	0.53
1:B:1877:SER:O	1:B:1892:CYS:N	2.39	0.53
1:E:666:ARG:HE	1:E:667:LEU:N	2.07	0.53
1:F:979:VAL:HG21	1:F:994:ASN:OD1	2.08	0.53
1:G:817:ARG:NH2	1:G:929:GLN:OE1	2.41	0.53
1:G:1437:LEU:O	1:G:1440:GLN:HG3	2.09	0.53
1:G:1947:LEU:HB2	1:G:2010:LEU:HD12	1.91	0.53
1:H:56:PHE:CD2	1:H:1010:ARG:HB2	2.44	0.53
1:H:1768:GLU:HG2	1:H:1890:ARG:HH21	1.73	0.53
1:H:1988:ASN:O	1:H:1992:ILE:HG12	2.09	0.53
1:A:924:ARG:NH1	1:D:924:ARG:HD2	2.24	0.52
1:A:1161:VAL:HG12	1:A:1165:TYR:HE2	1.75	0.52
1:C:638:TYR:HB3	1:C:651:GLU:HB3	1.89	0.52
1:C:755:GLN:HG3	1:C:758:ARG:HH21	1.74	0.52
1:C:1878:THR:HB	1:C:1889:ILE:HG21	1.90	0.52
1:D:262:LEU:N	1:D:501:SER:O	2.27	0.52
1:D:779:VAL:HG23	1:D:808:MET:HE1	1.90	0.52
1:D:1015:SER:O	1:D:1018:ARG:HD3	2.09	0.52
1:D:1751:TYR:CE1	1:D:1772:LYS:HD3	2.41	0.52
1:D:1892:CYS:HA	1:H:1893:HIS:CE1	2.43	0.52
1:B:134:TYR:HE1	1:B:249:ARG:N	2.07	0.52
1:B:294:GLU:OE1	1:B:533:LEU:N	2.39	0.52
1:B:1054:TYR:OH	1:B:1109:LEU:HB3	2.08	0.52
1:B:1137:SER:O	1:B:1140:HIS:HB3	2.09	0.52
1:B:1266:PRO:HA	1:B:1269:LEU:HD12	1.91	0.52
1:B:1445:SER:C	1:B:1446:LYS:HE2	2.34	0.52
1:B:1583:TYR:OH	1:B:1587:ARG:NH2	2.40	0.52
1:E:140:ASP:OD1	1:E:141:THR:N	2.41	0.52
1:E:981:THR:O	1:E:984:HIS:NE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:220:GLU:O	1:F:224:ARG:HG2	2.10	0.52
1:F:907:LEU:HB3	1:F:909:HIS:CD2	2.45	0.52
1:F:916:TRP:HB3	1:F:971:LEU:HD11	1.91	0.52
1:H:336:ILE:HD13	1:H:446:PHE:HZ	1.74	0.52
1:H:577:MET:HE3	1:H:582:PRO:HA	1.91	0.52
1:H:1802:ILE:O	1:H:1821:GLN:NE2	2.42	0.52
1:A:1267:ALA:HA	1:A:1270:GLN:HE22	1.74	0.52
1:A:1426:SER:OG	1:A:1427:ALA:N	2.43	0.52
1:C:344:LYS:N	1:C:392:MET:O	2.29	0.52
1:C:478:ASP:HA	1:C:480:ARG:NH1	2.21	0.52
1:C:1113:LEU:HG	1:C:1114:LEU:HD23	1.90	0.52
1:C:1528:SER:O	1:C:1531:THR:OG1	2.20	0.52
1:C:1699:LEU:HB3	1:C:1702:ALA:HB3	1.91	0.52
1:D:294:GLU:OE2	1:D:552:TYR:OH	2.25	0.52
1:D:1038:LEU:HA	1:D:1041:ARG:CB	2.39	0.52
1:D:1283:ARG:NH2	1:D:1286:ASP:HB2	2.25	0.52
1:D:1528:SER:O	1:D:1531:THR:OG1	2.23	0.52
1:D:1895:GLU:OE1	1:D:1895:GLU:N	2.42	0.52
1:B:1383:ASN:O	1:B:1386:THR:OG1	2.25	0.52
1:E:345:VAL:HG13	1:E:388:GLY:HA2	1.91	0.52
1:E:916:TRP:HD1	1:E:927:ILE:HD13	1.73	0.52
1:E:1468:ARG:CZ	1:E:1513:LEU:HD13	2.39	0.52
1:E:1578:LEU:O	1:E:1582:MET:HG2	2.09	0.52
1:E:1722:LYS:O	1:E:1726:VAL:HG23	2.10	0.52
1:F:242:GLU:O	1:F:1046:ARG:NH1	2.42	0.52
1:F:461:LYS:N	1:F:492:VAL:HG21	2.23	0.52
1:G:223:ARG:NH2	1:G:1397:GLU:OE1	2.43	0.52
1:G:577:MET:SD	1:G:584:GLN:HB3	2.49	0.52
1:G:1574:ASP:O	1:G:1578:LEU:CB	2.57	0.52
1:H:1382:GLY:O	1:H:1386:THR:HG23	2.09	0.52
1:H:1527:ARG:HH21	1:H:1531:THR:N	2.06	0.52
1:A:139:THR:O	1:A:142:GLN:HG2	2.10	0.52
1:A:997:LEU:O	1:A:1001:LEU:HG	2.10	0.52
1:A:1022:LYS:O	1:A:1026:THR:OG1	2.19	0.52
1:A:1276:LEU:HG	1:A:1281:LEU:HG	1.90	0.52
1:C:320:THR:OG1	1:C:595:CYS:N	2.42	0.52
1:C:803:GLY:HA2	1:C:806:GLU:CD	2.35	0.52
1:C:1508:MET:HB2	1:C:1598:THR:HG21	1.91	0.52
1:D:976:GLY:O	1:D:977:LEU:C	2.52	0.52
1:D:1096:MET:O	1:D:1166:LEU:HB2	2.09	0.52
1:B:571:ALA:HB2	1:B:606:VAL:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1045:THR:O	1:B:1048:LEU:HG	2.10	0.52
1:B:1165:TYR:HB3	1:B:1168:LEU:HD12	1.91	0.52
1:B:1493:PHE:HD1	1:B:1499:PHE:HE1	1.57	0.52
1:B:1599:TRP:O	1:B:1603:MET:HG2	2.09	0.52
1:B:1700:TYR:HB3	1:B:1733:ALA:HB1	1.91	0.52
1:E:46:PRO:HG2	1:E:49:GLU:HB2	1.90	0.52
1:E:982:ARG:NH1	1:E:990:ALA:HA	2.24	0.52
1:E:1017:VAL:HG12	1:E:1021:TYR:CE1	2.45	0.52
1:E:1630:TYR:OH	1:E:1672:PHE:O	2.23	0.52
1:F:972:VAL:HA	1:F:975:VAL:HG12	1.91	0.52
1:F:1027:ARG:HH12	1:H:758:ARG:HD2	1.75	0.52
1:G:780:LEU:HD11	1:G:835:TYR:CE2	2.44	0.52
1:G:1849:THR:HA	1:G:1876:LEU:O	2.09	0.52
1:H:139:THR:HA	1:H:142:GLN:CD	2.34	0.52
1:H:588:VAL:O	1:H:622:HIS:N	2.43	0.52
1:H:1254:LEU:HD12	1:H:1291:CYS:SG	2.50	0.52
1:A:787:VAL:O	1:A:790:PRO:HD3	2.09	0.52
1:A:791:PRO:HG2	1:A:798:VAL:HG21	1.90	0.52
1:A:1451:LEU:O	1:A:1456:THR:HA	2.08	0.52
1:C:952:LEU:O	1:C:959:ARG:NH2	2.42	0.52
1:C:1573:GLU:OE1	1:C:1573:GLU:N	2.32	0.52
1:C:1727:HIS:CE1	1:D:1731:GLN:HA	2.45	0.52
1:C:1734:PHE:HE2	1:D:1724:ALA:N	2.06	0.52
1:C:1856:PHE:CE1	1:C:1872:ARG:HB2	2.45	0.52
1:C:2011:ARG:O	1:C:2015:GLN:HG2	2.10	0.52
1:D:221:THR:O	1:D:225:GLN:NE2	2.37	0.52
1:D:831:GLN:N	1:D:831:GLN:OE1	2.41	0.52
1:D:931:ALA:HA	1:D:934:PHE:HD2	1.75	0.52
1:D:1014:PHE:HZ	1:D:1109:LEU:HD11	1.74	0.52
1:E:1529:LEU:HD13	1:E:1555:MET:HE1	1.91	0.52
1:E:1576:GLU:H	1:E:1576:GLU:CD	2.17	0.52
1:F:1064:LEU:HB2	1:F:1092:LYS:HG3	1.92	0.52
1:F:1564:ASP:HB2	1:F:1567:LYS:HE2	1.91	0.52
1:F:1578:LEU:O	1:F:1581:LEU:HG	2.09	0.52
1:G:73:ARG:O	1:G:73:ARG:NH1	2.38	0.52
1:G:1383:ASN:O	1:G:1386:THR:OG1	2.24	0.52
1:G:1989:LYS:HB3	1:G:2000:HIS:HE1	1.72	0.52
1:H:1590:GLN:HA	1:H:1596:ARG:HH11	1.73	0.52
1:A:207:LEU:O	1:A:209:ARG:NH1	2.43	0.52
1:A:659:ILE:HG13	1:A:674:LEU:HD11	1.92	0.52
1:A:924:ARG:O	1:A:928:LEU:HG	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1754:VAL:HA	1:A:1821:GLN:O	2.10	0.52
1:C:782:LYS:HD3	1:C:785:ARG:HE	1.75	0.52
1:C:994:ASN:HA	1:C:997:LEU:HB3	1.91	0.52
1:C:1051:HIS:CE1	1:C:1057:LEU:HD11	2.44	0.52
1:C:1254:LEU:HD11	1:C:1287:LEU:HD21	1.91	0.52
1:C:1278:LEU:HA	1:C:1281:LEU:HD12	1.92	0.52
1:C:1763:ASP:OD1	1:C:1764:LEU:N	2.41	0.52
1:C:1845:TYR:HA	1:C:1883:PRO:CD	2.40	0.52
1:D:108:GLN:HG3	1:D:732:HIS:CD2	2.44	0.52
1:D:130:LEU:HB2	1:D:1052:GLU:OE1	2.09	0.52
1:D:216:ASP:OD1	1:D:217:ARG:N	2.43	0.52
1:D:231:LEU:HD22	1:D:1259:TRP:HD1	1.74	0.52
1:D:1015:SER:HA	1:D:1018:ARG:NE	2.25	0.52
1:B:468:SER:O	1:B:472:LEU:HB2	2.09	0.52
1:B:551:LEU:HD11	1:B:623:LEU:HB2	1.90	0.52
1:B:1018:ARG:HG2	1:B:1022:LYS:NZ	2.25	0.52
1:B:1091:PRO:O	1:B:1095:SER:OG	2.26	0.52
1:B:1536:ALA:O	1:B:1543:ARG:NH2	2.43	0.52
1:B:1785:ARG:HH22	1:B:1789:PHE:HB2	1.74	0.52
1:E:341:LYS:HE2	1:E:462:GLN:HE22	1.75	0.52
1:E:723:TYR:HA	1:E:726:LYS:HE3	1.92	0.52
1:F:302:SER:N	1:F:305:MET:HE2	2.23	0.52
1:F:1851:LEU:HD13	1:F:1875:LEU:HD22	1.90	0.52
1:F:1865:GLU:OE1	1:F:1867:PRO:HD2	2.10	0.52
1:G:80:ALA:HB1	1:G:952:LEU:HD21	1.90	0.52
1:G:749:SER:OG	1:G:750:GLU:OE1	2.26	0.52
1:G:1128:ALA:HA	1:G:1131:LEU:HD23	1.91	0.52
1:G:1279:PRO:HB2	1:G:1283:ARG:NH1	2.25	0.52
1:H:345:VAL:HG13	1:H:388:GLY:HA2	1.92	0.52
1:H:348:GLN:NE2	1:H:386:ARG:HH12	2.07	0.52
1:H:1290:LEU:HD12	1:H:1293:ALA:HB3	1.92	0.52
1:H:1574:ASP:OD2	1:H:1577:MET:HE2	2.10	0.52
1:H:1989:LYS:HB2	1:H:2000:HIS:CE1	2.41	0.52
1:A:835:TYR:CD1	1:A:839:ALA:HB3	2.45	0.52
1:A:1091:PRO:HA	1:A:1094:THR:HG22	1.92	0.52
1:A:1284:LEU:HD22	1:A:1285:LEU:HD22	1.92	0.52
1:C:916:TRP:HE3	1:C:971:LEU:HD11	1.74	0.52
1:C:1018:ARG:HH11	1:C:1019:ALA:H	1.57	0.52
1:C:1410:GLU:HG2	1:C:1411:SER:H	1.74	0.52
1:C:1751:TYR:CE1	1:C:1772:LYS:HD3	2.44	0.52
1:C:1958:PRO:HG3	1:C:1967:HIS:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:290:LYS:HZ2	1:D:292:ILE:HA	1.74	0.52
1:D:554:TYR:CE1	1:D:618:GLU:HA	2.44	0.52
1:D:555:PRO:HB3	1:D:709:VAL:HG12	1.92	0.52
1:D:660:PRO:C	1:D:668:ARG:HE	2.17	0.52
1:D:1114:LEU:HA	1:D:1117:LEU:HD12	1.92	0.52
1:D:1858:PRO:HG3	1:D:1870:HIS:CE1	2.44	0.52
1:B:153:VAL:HG11	1:B:1474:ILE:HG13	1.90	0.52
1:B:231:LEU:HD13	1:B:1259:TRP:HD1	1.74	0.52
1:B:792:ILE:HD11	1:B:795:GLY:HA2	1.91	0.52
1:B:805:PHE:CD2	1:B:915:GLN:HG2	2.45	0.52
1:B:1426:SER:OG	1:B:1427:ALA:N	2.42	0.52
1:B:1703:VAL:HG13	1:B:1707:TYR:HE2	1.74	0.52
1:B:1989:LYS:HB2	1:B:2000:HIS:CE1	2.45	0.52
1:E:554:TYR:HB3	1:E:556:HIS:NE2	2.24	0.52
1:E:979:VAL:HG23	1:E:982:ARG:NH1	2.25	0.52
1:E:1412:VAL:HG12	1:E:1413:LEU:HD12	1.90	0.52
1:E:1958:PRO:HG3	1:E:1967:HIS:CE1	2.44	0.52
1:F:231:LEU:HD23	1:F:1259:TRP:HA	1.92	0.52
1:F:346:LEU:HD11	1:F:642:CYS:SG	2.50	0.52
1:F:782:LYS:HD3	1:F:785:ARG:HB2	1.90	0.52
1:G:206:LEU:HG	1:G:1483:ALA:HB1	1.91	0.52
1:G:559:ASN:HB2	1:G:706:VAL:HG11	1.91	0.52
1:G:913:ALA:O	1:G:917:VAL:HG23	2.09	0.52
1:H:536:PRO:HB2	1:H:538:ARG:O	2.09	0.52
1:H:1553:ASP:OD1	1:H:1554:LEU:N	2.43	0.52
1:H:1630:TYR:HA	1:H:1633:LEU:HD12	1.91	0.52
1:H:1750:THR:O	1:H:1772:LYS:HA	2.10	0.52
1:A:724:LEU:HD11	1:A:772:LEU:HD21	1.90	0.52
1:A:1446:LYS:HA	1:A:1446:LYS:HE2	1.91	0.52
1:C:294:GLU:HB2	1:C:532:ILE:HG23	1.92	0.52
1:C:1038:LEU:HD23	1:C:1041:ARG:HB2	1.90	0.52
1:C:1051:HIS:HE1	1:C:1053:HIS:HB2	1.73	0.52
1:C:1420:VAL:O	1:C:1423:SER:OG	2.25	0.52
1:C:1603:MET:HE2	1:C:1603:MET:N	2.24	0.52
1:C:1906:ILE:HA	1:C:1970:LEU:HD13	1.91	0.52
1:D:514:GLU:OE2	1:D:548:ARG:HG3	2.10	0.52
1:D:655:GLY:HA2	1:D:678:VAL:HA	1.92	0.52
1:B:400:HIS:NE2	1:B:402:ALA:HB3	2.25	0.52
1:B:567:VAL:HG12	1:B:570:LEU:HD11	1.92	0.52
1:B:982:ARG:CZ	1:B:986:ASP:H	2.23	0.52
1:B:1954:LEU:HB2	1:B:2017:LEU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:90:ARG:NH1	1:E:115:MET:O	2.43	0.52
1:E:943:ALA:HA	1:E:946:LEU:HD12	1.90	0.52
1:E:1178:ARG:HG2	1:E:1245:LEU:HD12	1.91	0.52
1:E:1253:LEU:O	1:E:1257:VAL:HG23	2.09	0.52
1:E:1508:MET:HE3	1:E:1594:ASP:HB3	1.91	0.52
1:F:481:ARG:NH1	1:F:482:PRO:O	2.43	0.52
1:F:1619:CYS:SG	1:F:1885:ILE:HB	2.50	0.52
1:G:244:VAL:HG11	1:G:1050:SER:HB2	1.92	0.52
1:G:728:PHE:CD1	1:G:782:LYS:HD2	2.44	0.52
1:G:1270:GLN:OE1	1:G:1398:ILE:HD12	2.09	0.52
1:G:1394:ASP:O	1:G:1398:ILE:HG12	2.09	0.52
1:G:1700:TYR:CE1	1:G:1736:LYS:HD3	2.45	0.52
1:H:1054:TYR:CE2	1:H:1109:LEU:HB3	2.45	0.52
1:H:1272:TRP:CH2	1:H:1276:LEU:HD13	2.44	0.52
1:A:250:PRO:HB2	1:A:834:ALA:HB2	1.92	0.52
1:A:259:GLN:HE21	1:A:329:VAL:HB	1.74	0.52
1:A:1298:LYS:HA	1:A:1301:LYS:HE3	1.92	0.52
1:A:1813:LEU:HD22	1:A:1819:TYR:HD2	1.73	0.52
1:C:57:GLU:CD	1:C:57:GLU:H	2.18	0.52
1:C:587:PRO:HA	1:C:600:ARG:HA	1.90	0.52
1:C:743:LEU:CD2	1:C:748:LEU:HD11	2.40	0.52
1:C:933:PHE:CE2	1:C:937:LEU:HD11	2.45	0.52
1:C:1292:LEU:HD21	1:C:1392:VAL:HG21	1.91	0.52
1:C:1733:ALA:O	1:C:1737:ILE:HG12	2.09	0.52
1:C:1907:GLU:O	1:C:1911:LYS:HG2	2.09	0.52
1:D:1001:LEU:HA	1:D:1004:LEU:HD12	1.92	0.52
1:D:1408:ALA:O	1:D:1412:VAL:HG23	2.09	0.52
1:B:275:GLU:O	1:B:277:ILE:HG13	2.10	0.52
1:B:276:PRO:HD2	1:B:345:VAL:HG21	1.92	0.52
1:B:617:GLU:HG2	1:B:619:PHE:CE1	2.45	0.52
1:B:1039:THR:O	1:B:1042:MET:HB3	2.10	0.52
1:B:1285:LEU:HD21	1:B:1399:ILE:HD13	1.91	0.52
1:B:1403:VAL:HG11	1:B:1412:VAL:HG11	1.92	0.52
1:E:284:TYR:OH	1:E:295:ASN:OD1	2.24	0.52
1:E:345:VAL:HA	1:E:391:ARG:NH1	2.25	0.52
1:E:400:HIS:CD2	1:E:401:LEU:H	2.27	0.52
1:E:769:PRO:HA	1:E:772:LEU:HD12	1.92	0.52
1:E:1715:GLU:O	1:E:1718:ARG:HD3	2.10	0.52
1:F:569:ASN:H	1:F:639:HIS:CE1	2.27	0.52
1:F:1437:LEU:HG	1:F:1440:GLN:HE21	1.74	0.52
1:H:276:PRO:HA	1:H:305:MET:SD	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1006:SER:O	1:H:1010:ARG:NH2	2.43	0.52
1:H:1699:LEU:O	1:H:1703:VAL:HG23	2.09	0.52
1:A:961:PRO:O	1:A:965:LEU:HG	2.10	0.52
1:A:1045:THR:O	1:A:1048:LEU:HG	2.10	0.52
1:A:1118:ALA:HA	1:A:1121:LEU:HG	1.92	0.52
1:A:1267:ALA:HA	1:A:1270:GLN:NE2	2.24	0.52
1:A:1814:ASP:HB3	1:A:1816:GLN:HG3	1.92	0.52
1:C:551:LEU:N	1:C:621:LEU:O	2.30	0.52
1:C:591:GLY:HA2	1:C:599:THR:HG23	1.91	0.52
1:C:1129:PHE:HA	1:C:1132:HIS:ND1	2.25	0.52
1:D:301:ASN:HB3	1:D:305:MET:HB2	1.92	0.52
1:D:574:VAL:HG22	1:D:635:PHE:CE1	2.45	0.52
1:D:933:PHE:CE2	1:D:937:LEU:HD11	2.45	0.52
1:B:788:ILE:HG13	1:B:906:LYS:O	2.10	0.52
1:B:1055:VAL:HA	1:B:1058:ASN:HD22	1.75	0.52
1:B:1117:LEU:O	1:B:1121:LEU:HG	2.10	0.52
1:B:1150:PRO:HG2	1:B:1151:ARG:CZ	2.40	0.52
1:B:1522:GLU:CD	1:B:1566:VAL:HG21	2.34	0.52
1:B:1765:ASP:OD2	1:B:1766:GLU:HG2	2.10	0.52
1:F:223:ARG:HB3	1:F:1390:LEU:HD11	1.92	0.52
1:F:674:LEU:HD22	1:F:690:PRO:HG2	1.92	0.52
1:F:1464:LEU:O	1:F:1468:ARG:HG2	2.10	0.52
1:G:299:ASP:OD1	1:G:301:ASN:ND2	2.43	0.52
1:G:328:SER:O	1:G:534:GLU:HG2	2.09	0.52
1:H:336:ILE:HG21	1:H:446:PHE:HZ	1.74	0.52
1:A:108:GLN:HE22	1:A:728:PHE:HB3	1.75	0.52
1:A:470:GLU:HG2	1:A:471:ASP:N	2.25	0.52
1:A:725:ASP:O	1:A:729:THR:HG23	2.09	0.52
1:A:998:ALA:O	1:A:1001:LEU:N	2.43	0.52
1:A:1785:ARG:NH2	1:A:1789:PHE:HB2	2.24	0.52
1:A:1968:ASN:HA	1:A:1971:ARG:NE	2.25	0.52
1:C:783:LEU:HD22	1:C:808:MET:SD	2.50	0.52
1:C:976:GLY:O	1:C:977:LEU:C	2.52	0.52
1:C:986:ASP:OD1	1:C:989:LEU:N	2.42	0.52
1:C:1751:TYR:HA	1:C:1771:TYR:O	2.09	0.52
1:D:277:ILE:HG12	1:D:344:LYS:HG2	1.92	0.52
1:D:284:TYR:N	1:D:337:PHE:O	2.41	0.52
1:D:914:LEU:O	1:D:917:VAL:HB	2.10	0.52
1:D:1988:ASN:HB3	1:D:2000:HIS:CE1	2.45	0.52
1:B:1463:CYS:HA	1:B:1466:LEU:HD12	1.90	0.52
1:E:730:LEU:HD23	1:E:757:LEU:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1551:VAL:O	1:E:1555:MET:HG2	2.09	0.52
1:E:1567:LYS:HA	1:E:1570:GLU:OE1	2.10	0.52
1:E:1777:THR:HA	1:E:1781:GLU:OE2	2.09	0.52
1:F:965:LEU:O	1:F:969:THR:HG23	2.10	0.52
1:F:1806:ASN:OD1	1:F:1872:ARG:NH1	2.43	0.52
1:G:115:MET:HE2	1:G:777:HIS:HD2	1.75	0.52
1:G:1015:SER:O	1:G:1018:ARG:HD3	2.10	0.52
1:G:1392:VAL:O	1:G:1395:THR:OG1	2.25	0.52
1:G:1785:ARG:O	1:G:1789:PHE:HB2	2.10	0.52
1:H:1737:ILE:O	1:H:1741:SER:OG	2.18	0.52
1:A:131:SER:O	1:A:135:SER:CB	2.55	0.51
1:A:1431:LEU:O	1:A:1434:GLN:HG3	2.10	0.51
1:A:1644:CYS:HB3	1:A:1658:SER:HB2	1.92	0.51
1:A:1700:TYR:CD2	1:A:1736:LYS:HE2	2.45	0.51
1:A:1725:ALA:O	1:A:1729:LYS:HG3	2.09	0.51
1:A:1754:VAL:HG13	1:A:1822:ILE:HG13	1.92	0.51
1:A:1856:PHE:HE1	1:A:1872:ARG:HG3	1.75	0.51
1:C:466:ARG:HH12	1:C:605:PRO:HB2	1.74	0.51
1:C:803:GLY:O	1:C:806:GLU:HB2	2.10	0.51
1:C:978:GLU:O	1:C:981:THR:N	2.43	0.51
1:C:1028:LEU:HD13	1:C:1038:LEU:HD11	1.92	0.51
1:C:1403:VAL:HB	1:C:1409:ARG:NH1	2.25	0.51
1:C:1579:ILE:HD11	1:C:1606:LYS:HG2	1.91	0.51
1:C:1846:GLY:H	1:C:1883:PRO:HD2	1.74	0.51
1:D:227:ARG:NH2	1:D:1391:VAL:HG12	2.24	0.51
1:D:1617:ALA:O	1:D:1621:VAL:HG23	2.10	0.51
1:D:1750:THR:HB	1:D:1824:TYR:HE1	1.74	0.51
1:B:84:GLU:OE1	1:B:86:LEU:HD22	2.10	0.51
1:B:551:LEU:HB2	1:B:621:LEU:HB2	1.91	0.51
1:B:1267:ALA:O	1:B:1270:GLN:NE2	2.44	0.51
1:B:1603:MET:HB3	1:B:1607:HIS:HE1	1.74	0.51
1:B:1703:VAL:HG13	1:B:1707:TYR:CE2	2.44	0.51
1:B:1987:LYS:HD3	1:B:1990:ALA:HB3	1.92	0.51
1:E:1699:LEU:O	1:E:1703:VAL:HG23	2.09	0.51
1:E:1736:LYS:NZ	1:E:1740:GLN:HG3	2.25	0.51
1:F:1019:ALA:HA	1:F:1022:LYS:HZ3	1.75	0.51
1:F:1813:LEU:HD22	1:F:1819:TYR:CE1	2.45	0.51
1:G:926:ALA:O	1:G:929:GLN:HB2	2.09	0.51
1:G:1729:LYS:O	1:G:1732:GLU:HG3	2.10	0.51
1:H:976:GLY:O	1:H:979:VAL:HG12	2.10	0.51
1:H:1099:LEU:HD12	1:H:1103:PHE:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1886:LYS:HG3	1:H:1888:ARG:O	2.10	0.51
1:A:79:PRO:HG2	1:A:127:TYR:HE2	1.76	0.51
1:A:220:GLU:O	1:A:224:ARG:HG2	2.10	0.51
1:A:249:ARG:HG2	1:A:837:HIS:HE1	1.75	0.51
1:A:1438:ALA:HA	1:A:1441:ARG:NE	2.25	0.51
1:C:628:THR:HB	1:C:631:HIS:ND1	2.25	0.51
1:C:633:LEU:HD12	1:C:661:LEU:HD21	1.93	0.51
1:C:1020:HIS:HE1	1:C:1041:ARG:NH2	2.08	0.51
1:C:1845:TYR:HD1	1:C:1883:PRO:HD2	1.75	0.51
1:D:935:PHE:HD1	1:D:1000:PHE:CD1	2.28	0.51
1:D:1059:LEU:HG	1:D:1062:CYS:SG	2.50	0.51
1:D:1426:SER:OG	1:D:1427:ALA:N	2.42	0.51
1:D:1846:GLY:HA2	1:D:1881:ALA:HB1	1.92	0.51
1:B:217:ARG:NH2	1:B:218:ARG:HB2	2.25	0.51
1:B:467:LEU:HD23	1:B:472:LEU:HD13	1.92	0.51
1:B:568:ARG:HH21	1:B:611:LYS:HE2	1.75	0.51
1:B:630:ASN:OD1	1:B:631:HIS:ND1	2.43	0.51
1:B:976:GLY:O	1:B:977:LEU:C	2.53	0.51
1:B:1017:VAL:O	1:B:1020:HIS:HB3	2.10	0.51
1:B:1714:LEU:HA	1:B:1717:HIS:HB2	1.92	0.51
1:E:1595:LEU:HD12	1:E:1599:TRP:HZ3	1.75	0.51
1:E:1760:HIS:ND1	1:E:1798:VAL:HG11	2.25	0.51
1:E:1902:VAL:HG22	1:E:1953:PHE:CE1	2.45	0.51
1:F:127:TYR:HB3	1:F:130:LEU:HD12	1.91	0.51
1:F:496:LEU:HG	1:F:498:ILE:HG23	1.90	0.51
1:F:802:ARG:HH12	1:H:977:LEU:HD11	1.74	0.51
1:F:1945:GLY:N	1:F:1948:GLU:OE2	2.42	0.51
1:G:120:TRP:CZ3	1:G:839:ALA:HB2	2.45	0.51
1:G:917:VAL:C	1:G:924:ARG:HH22	2.19	0.51
1:G:1021:TYR:HA	1:G:1024:VAL:HG12	1.92	0.51
1:G:1474:ILE:HD13	1:G:1477:ILE:HD12	1.92	0.51
1:H:679:ASP:OD1	1:H:680:GLN:N	2.42	0.51
1:A:778:HIS:O	1:A:782:LYS:HG2	2.11	0.51
1:A:1018:ARG:NH1	1:A:1022:LYS:HZ1	2.07	0.51
1:A:1582:MET:HG3	1:A:1603:MET:HE2	1.92	0.51
1:A:1617:ALA:HB1	1:A:1694:PHE:CE1	2.45	0.51
1:C:138:THR:O	1:C:141:THR:OG1	2.25	0.51
1:C:912:LEU:HA	1:C:915:GLN:CD	2.36	0.51
1:C:980:ILE:HG21	1:C:1027:ARG:HD2	1.93	0.51
1:C:1769:PHE:HA	1:C:1889:ILE:O	2.09	0.51
1:D:393:PRO:HG3	1:D:466:ARG:NE	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:569:ASN:OD1	1:D:609:HIS:N	2.38	0.51
1:D:919:SER:HB3	1:D:924:ARG:NH1	2.24	0.51
1:D:1018:ARG:HG2	1:D:1022:LYS:NZ	2.25	0.51
1:D:1020:HIS:O	1:D:1024:VAL:HG13	2.11	0.51
1:D:1493:PHE:CZ	1:D:1545:SER:HB3	2.45	0.51
1:B:231:LEU:O	1:B:234:LEU:HB2	2.10	0.51
1:B:1018:ARG:HA	1:B:1021:TYR:HD2	1.76	0.51
1:B:1451:LEU:HD23	1:B:1458:LEU:HB3	1.92	0.51
1:B:1451:LEU:O	1:B:1456:THR:HA	2.09	0.51
1:B:1587:ARG:HH22	1:B:1656:GLU:HG3	1.74	0.51
1:B:1600:LEU:O	1:B:1620:MET:HE1	2.10	0.51
1:E:514:GLU:HA	1:E:590:PHE:HE2	1.75	0.51
1:E:1011:GLY:HA2	1:E:1014:PHE:HD2	1.75	0.51
1:E:1492:ASN:ND2	1:E:1498:ASN:O	2.43	0.51
1:E:1503:LYS:HD2	1:E:1554:LEU:HD23	1.92	0.51
1:E:1779:LEU:HD11	1:E:1823:THR:HA	1.91	0.51
1:F:75:LEU:HG	1:F:1160:ARG:HH12	1.76	0.51
1:F:281:LEU:HD22	1:F:338:LEU:HD11	1.91	0.51
1:F:659:ILE:HG12	1:F:674:LEU:HD11	1.91	0.51
1:F:1940:PRO:HB2	1:F:1942:VAL:HG23	1.93	0.51
1:G:1600:LEU:HD13	1:G:1623:ALA:HB2	1.91	0.51
1:G:1673:CYS:HB3	1:G:1678:PHE:CG	2.46	0.51
1:G:1886:LYS:HZ2	1:G:1888:ARG:HG2	1.75	0.51
1:H:250:PRO:HG2	1:H:838:TYR:HE2	1.76	0.51
1:H:250:PRO:O	1:H:838:TYR:OH	2.17	0.51
1:H:790:PRO:HG2	1:H:797:ILE:HD11	1.92	0.51
1:H:824:ASP:OD2	1:H:826:ARG:HG2	2.10	0.51
1:H:968:ILE:HD13	1:H:971:LEU:HD23	1.92	0.51
1:H:986:ASP:OD1	1:H:987:VAL:N	2.44	0.51
1:H:1027:ARG:O	1:H:1030:SER:OG	2.28	0.51
1:H:1503:LYS:O	1:H:1507:THR:OG1	2.27	0.51
1:A:977:LEU:HD11	1:D:802:ARG:HH22	1.76	0.51
1:A:1383:ASN:O	1:A:1386:THR:OG1	2.23	0.51
1:A:1733:ALA:HA	1:A:1736:LYS:NZ	2.26	0.51
1:C:812:VAL:HA	1:C:815:VAL:HG22	1.91	0.51
1:C:1026:THR:OG1	1:B:758:ARG:NH1	2.44	0.51
1:C:1768:GLU:H	1:C:1890:ARG:NE	2.08	0.51
1:D:549:ASN:ND2	1:D:623:LEU:HB3	2.20	0.51
1:D:1854:THR:OG1	1:D:1872:ARG:HB3	2.10	0.51
1:D:1947:LEU:HB2	1:D:2010:LEU:HD12	1.93	0.51
1:B:114:GLU:O	1:B:118:GLU:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:924:ARG:O	1:B:928:LEU:HG	2.09	0.51
1:B:1513:LEU:HD12	1:B:1517:THR:HB	1.93	0.51
1:B:1566:VAL:O	1:B:1569:LYS:N	2.43	0.51
1:B:1828:TYR:HB2	1:B:1851:LEU:HB2	1.92	0.51
1:E:1680:GLU:OE2	1:E:1681:LEU:HG	2.09	0.51
1:E:1718:ARG:HH21	1:H:1838:VAL:HG11	1.76	0.51
1:F:206:LEU:HG	1:F:1483:ALA:HB1	1.91	0.51
1:F:826:ARG:HB2	1:F:828:HIS:HD2	1.75	0.51
1:F:1276:LEU:HG	1:F:1280:GLN:HB2	1.91	0.51
1:G:792:ILE:HG13	1:G:796:GLN:O	2.10	0.51
1:G:1147:ASP:OD1	1:G:1259:TRP:NE1	2.43	0.51
1:H:107:ALA:HB3	1:H:732:HIS:CD2	2.45	0.51
1:H:835:TYR:HA	1:H:839:ALA:HB3	1.91	0.51
1:H:1851:LEU:HD11	1:H:1873:LYS:HB3	1.92	0.51
1:A:579:GLY:HA2	1:A:630:ASN:HB2	1.92	0.51
1:A:1298:LYS:HB3	1:A:1302:ALA:HB2	1.93	0.51
1:A:1830:ASP:O	1:A:1834:LEU:HB2	2.11	0.51
1:A:2002:GLU:HA	1:A:2005:ARG:HG2	1.92	0.51
1:C:70:GLY:O	1:C:73:ARG:NH1	2.35	0.51
1:C:127:TYR:O	1:C:130:LEU:N	2.28	0.51
1:C:1021:TYR:OH	1:C:1045:THR:HG22	2.10	0.51
1:C:1804:ASP:OD1	1:C:1804:ASP:N	2.42	0.51
1:C:1814:ASP:OD2	1:C:1817:LYS:N	2.35	0.51
1:D:730:LEU:HB3	1:D:757:LEU:CD1	2.41	0.51
1:D:1179:LEU:HG	1:D:1245:LEU:HD22	1.93	0.51
1:D:1738:MET:HA	1:D:1741:SER:HG	1.75	0.51
1:B:634:LEU:HD11	1:B:656:PHE:HB3	1.93	0.51
1:B:1041:ARG:O	1:B:1044:PHE:HB3	2.11	0.51
1:B:1471:GLY:HA3	1:B:1520:PHE:CE1	2.45	0.51
1:B:1652:SER:O	1:B:1848:ARG:NH2	2.43	0.51
1:B:1813:LEU:HD22	1:B:1819:TYR:CG	2.46	0.51
1:E:282:ALA:O	1:E:339:VAL:N	2.43	0.51
1:E:408:ALA:O	1:E:450:ARG:N	2.35	0.51
1:E:634:LEU:HD11	1:E:656:PHE:HB3	1.93	0.51
1:E:1097:PHE:HD2	1:E:1272:TRP:CE3	2.28	0.51
1:E:1267:ALA:O	1:E:1271:ARG:HG2	2.10	0.51
1:E:1884:TYR:HD2	1:E:1886:LYS:HG2	1.75	0.51
1:F:286:VAL:HG22	1:F:473:PHE:HD1	1.76	0.51
1:F:463:GLU:H	1:F:467:LEU:HD11	1.76	0.51
1:F:568:ARG:NH1	1:F:609:HIS:H	2.09	0.51
1:G:810:HIS:O	1:G:813:SER:OG	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:220:GLU:O	1:H:224:ARG:HG2	2.11	0.51
1:H:490:ARG:H	1:H:490:ARG:HD3	1.75	0.51
1:H:1176:LEU:HA	1:H:1179:LEU:HD12	1.93	0.51
1:H:1482:SER:HB2	1:H:1532:ILE:HG13	1.93	0.51
1:H:1512:SER:O	1:H:1516:THR:HG23	2.11	0.51
1:H:1750:THR:HB	1:H:1824:TYR:HE1	1.74	0.51
1:A:1037:LEU:O	1:A:1041:ARG:HG3	2.11	0.51
1:A:1058:ASN:O	1:A:1107:HIS:ND1	2.36	0.51
1:A:1382:GLY:O	1:A:1386:THR:HG23	2.11	0.51
1:A:1529:LEU:HA	1:A:1532:ILE:HD12	1.92	0.51
1:C:1121:LEU:HD13	1:C:1132:HIS:CD2	2.32	0.51
1:D:290:LYS:HZ3	1:D:535:PHE:HD2	1.59	0.51
1:D:294:GLU:OE2	1:D:533:LEU:HD12	2.10	0.51
1:D:1707:TYR:HD2	1:D:1730:LEU:HD13	1.75	0.51
1:D:1732:GLU:C	1:D:1736:LYS:HZ2	2.18	0.51
1:B:551:LEU:O	1:B:621:LEU:HB2	2.10	0.51
1:B:1253:LEU:CD2	1:B:1254:LEU:HD22	2.37	0.51
1:B:1741:SER:HA	1:B:1746:ARG:CZ	2.41	0.51
1:B:1760:HIS:ND1	1:B:1798:VAL:HG11	2.26	0.51
1:E:95:THR:OG1	1:E:517:HIS:HB2	2.11	0.51
1:E:991:GLU:HA	1:E:994:ASN:HD22	1.74	0.51
1:E:1279:PRO:HB2	1:E:1283:ARG:NH1	2.25	0.51
1:E:1485:LEU:HG	1:E:1489:MET:HE1	1.92	0.51
1:E:1575:PRO:O	1:E:1579:ILE:HG12	2.10	0.51
1:F:90:ARG:NH1	1:F:116:TYR:O	2.44	0.51
1:F:147:LYS:HA	1:F:1376:HIS:CE1	2.45	0.51
1:F:574:VAL:HA	1:F:635:PHE:CD1	2.46	0.51
1:F:954:THR:O	1:F:959:ARG:NE	2.34	0.51
1:F:1468:ARG:NE	1:F:1513:LEU:HD13	2.26	0.51
1:G:202:LEU:HB3	1:G:204:PRO:HD3	1.92	0.51
1:G:302:SER:N	1:G:305:MET:HE2	2.22	0.51
1:G:606:VAL:HG21	1:G:640:VAL:HG11	1.93	0.51
1:H:668:ARG:HB3	1:H:672:PHE:HZ	1.75	0.51
1:H:998:ALA:HB2	1:H:1044:PHE:CD1	2.45	0.51
1:H:1248:GLU:HG2	1:H:1251:ARG:NH2	2.25	0.51
1:H:1253:LEU:O	1:H:1257:VAL:HG23	2.10	0.51
1:H:1451:LEU:O	1:H:1456:THR:HA	2.11	0.51
1:H:1567:LYS:HA	1:H:1570:GLU:OE1	2.09	0.51
1:A:71:PRO:HG2	1:A:1154:GLU:HG3	1.93	0.51
1:A:734:LEU:HD11	1:A:757:LEU:HD22	1.91	0.51
1:A:1391:VAL:O	1:A:1395:THR:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1485:LEU:O	1:A:1489:MET:HE2	2.11	0.51
1:C:832:LEU:O	1:C:836:VAL:HG23	2.10	0.51
1:C:1115:THR:O	1:C:1119:LEU:HG	2.10	0.51
1:C:1575:PRO:O	1:C:1579:ILE:HG12	2.11	0.51
1:C:1581:LEU:O	1:C:1585:ILE:HG12	2.10	0.51
1:C:1647:PHE:HA	1:C:1650:ILE:HD12	1.92	0.51
1:D:678:VAL:HG23	1:D:698:ARG:CZ	2.40	0.51
1:D:1809:ASP:O	1:D:1812:LYS:HG2	2.11	0.51
1:B:125:ARG:HD2	1:B:128:GLN:CD	2.36	0.51
1:B:259:GLN:O	1:B:328:SER:HA	2.10	0.51
1:B:951:ARG:HG3	1:B:954:THR:HB	1.93	0.51
1:B:1468:ARG:HA	1:B:1520:PHE:CZ	2.45	0.51
1:B:1490:ARG:O	1:B:1493:PHE:HB3	2.11	0.51
1:B:1613:HIS:ND1	1:B:1696:MET:O	2.43	0.51
1:E:789:ARG:NH2	1:E:846:GLU:OE2	2.29	0.51
1:E:925:GLU:O	1:E:928:LEU:HB3	2.10	0.51
1:E:1558:LEU:O	1:E:1562:LEU:HG	2.11	0.51
1:E:1749:GLY:HA2	1:E:1774:PRO:HA	1.92	0.51
1:F:572:VAL:N	1:F:604:THR:OG1	2.44	0.51
1:F:663:GLN:O	1:F:666:ARG:HG2	2.10	0.51
1:F:917:VAL:C	1:F:924:ARG:HH22	2.16	0.51
1:F:1110:ALA:HB2	1:F:1164:LEU:HD13	1.93	0.51
1:F:1255:ALA:HB2	1:F:1295:PHE:CZ	2.46	0.51
1:G:342:LEU:N	1:G:395:ALA:O	2.42	0.51
1:G:1438:ALA:HA	1:G:1441:ARG:HE	1.75	0.51
1:G:1558:LEU:HD23	1:G:1561:ILE:HG13	1.92	0.51
1:H:92:CYS:O	1:H:519:LYS:NZ	2.39	0.51
1:H:1686:LEU:HG	1:H:1689:GLN:NE2	2.26	0.51
1:H:1756:PHE:HD2	1:H:1764:LEU:O	1.94	0.51
1:H:1913:THR:O	1:H:1980:LYS:NZ	2.44	0.51
1:A:1701:GLU:H	1:A:1701:GLU:CD	2.16	0.51
1:A:1727:HIS:HE1	1:B:1730:LEU:C	2.17	0.51
1:C:280:ILE:HG21	1:C:295:ASN:HD22	1.74	0.51
1:C:558:LEU:HD12	1:C:559:ASN:H	1.75	0.51
1:C:1018:ARG:HH11	1:C:1019:ALA:N	2.08	0.51
1:C:1104:ARG:HH12	1:C:1108:PHE:CA	2.24	0.51
1:C:1530:LYS:HZ3	1:E:2024:GLN:HE21	1.59	0.51
1:C:1788:GLU:O	1:C:1791:THR:N	2.44	0.51
1:C:1906:ILE:HG12	1:C:1970:LEU:HB2	1.93	0.51
1:D:86:LEU:HB3	1:D:88:GLN:OE1	2.11	0.51
1:D:1024:VAL:HG21	1:D:1041:ARG:NH1	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1437:LEU:O	1:D:1441:ARG:HG3	2.11	0.51
1:D:1958:PRO:HG2	1:D:1964:PHE:HA	1.92	0.51
1:B:576:TYR:CE2	1:B:586:LEU:HD12	2.45	0.51
1:B:1267:ALA:HA	1:B:1270:GLN:HE21	1.76	0.51
1:E:114:GLU:O	1:E:118:GLU:HB2	2.11	0.51
1:E:116:TYR:OH	1:E:716:SER:HB2	2.10	0.51
1:E:1736:LYS:HZ1	1:E:1740:GLN:HG3	1.76	0.51
1:F:511:LEU:N	1:F:529:THR:O	2.44	0.51
1:F:1414:GLY:HA2	1:F:1450:LEU:HD21	1.93	0.51
1:G:607:VAL:HB	1:G:613:PRO:HB3	1.91	0.51
1:G:754:GLU:O	1:G:758:ARG:HG2	2.10	0.51
1:G:832:LEU:HB3	1:G:933:PHE:CE1	2.46	0.51
1:G:1024:VAL:HG11	1:G:1041:ARG:NH1	2.23	0.51
1:G:1254:LEU:HB3	1:G:1291:CYS:SG	2.51	0.51
1:H:1855:PRO:HA	1:H:1871:LYS:HA	1.93	0.51
1:H:1878:THR:HB	1:H:1889:ILE:HG12	1.92	0.51
1:A:263:VAL:HG22	1:A:500:ILE:HG12	1.92	0.51
1:A:391:ARG:O	1:A:606:VAL:N	2.44	0.51
1:A:678:VAL:HG23	1:A:698:ARG:HD3	1.93	0.51
1:A:988:GLU:HA	1:A:991:GLU:CG	2.40	0.51
1:C:221:THR:O	1:C:225:GLN:NE2	2.38	0.51
1:C:294:GLU:OE2	1:C:533:LEU:HD12	2.11	0.51
1:C:490:ARG:HD3	1:C:490:ARG:H	1.76	0.51
1:C:513:PRO:HD3	1:C:531:GLU:OE2	2.11	0.51
1:C:664:HIS:CE1	1:C:744:LYS:HA	2.46	0.51
1:C:912:LEU:HD12	1:C:915:GLN:NE2	2.26	0.51
1:C:1553:ASP:OD1	1:C:1554:LEU:N	2.44	0.51
1:C:1731:GLN:CD	1:D:1731:GLN:CD	2.79	0.51
1:B:142:GLN:HB2	1:B:146:GLN:HE22	1.76	0.51
1:B:214:ASP:O	1:B:217:ARG:NH2	2.44	0.51
1:B:572:VAL:H	1:B:604:THR:HG1	1.59	0.51
1:B:789:ARG:HA	1:B:903:LEU:HD12	1.92	0.51
1:E:55:ASP:HB2	1:E:58:ASP:HB3	1.93	0.51
1:E:1042:MET:HE1	1:E:1134:LYS:O	2.10	0.51
1:E:1130:LEU:HD13	1:E:1133:LYS:HD2	1.92	0.51
1:F:628:THR:HG22	1:F:629:GLU:H	1.76	0.51
1:F:913:ALA:N	1:F:938:MET:HE1	2.26	0.51
1:F:1018:ARG:HD2	1:F:1022:LYS:NZ	2.26	0.51
1:F:1383:ASN:O	1:F:1386:THR:OG1	2.29	0.51
1:F:1884:TYR:CE2	1:F:1889:ILE:HD13	2.45	0.51
1:G:728:PHE:O	1:G:782:LYS:NZ	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:380:ALA:HA	1:H:383:PHE:CD2	2.46	0.51
1:H:400:HIS:HD2	1:H:401:LEU:H	1.56	0.51
1:H:461:LYS:H	1:H:492:VAL:HG21	1.75	0.51
1:H:991:GLU:HA	1:H:994:ASN:HD22	1.76	0.51
1:H:1587:ARG:HE	1:H:1596:ARG:HH12	1.59	0.51
1:H:1761:PHE:CZ	1:H:1818:ALA:HB1	2.46	0.51
1:A:105:LEU:HB2	1:A:110:ARG:NE	2.25	0.51
1:A:398:ALA:HB3	1:A:479:MET:HG2	1.93	0.51
1:A:548:ARG:O	1:A:716:SER:HB3	2.10	0.51
1:A:1001:LEU:HD23	1:A:1004:LEU:HD12	1.93	0.51
1:A:1471:GLY:HA3	1:A:1520:PHE:CE1	2.46	0.51
1:A:1572:GLN:NE2	1:A:1573:GLU:OE1	2.44	0.51
1:A:1603:MET:O	1:A:1607:HIS:ND1	2.44	0.51
1:A:1723:LEU:O	1:A:1727:HIS:HB2	2.10	0.51
1:C:919:SER:HB3	1:C:924:ARG:NH1	2.25	0.51
1:C:1042:MET:O	1:C:1043:GLU:C	2.54	0.51
1:C:1136:ILE:HD13	1:C:1253:LEU:HD12	1.93	0.51
1:C:1396:LEU:O	1:C:1400:VAL:HG23	2.11	0.51
1:D:81:ASP:CA	1:D:126:ARG:HH21	2.24	0.51
1:D:266:LEU:HD23	1:D:323:ARG:HH12	1.74	0.51
1:D:641:SER:HB2	1:D:650:LEU:HD12	1.93	0.51
1:D:1371:LYS:O	1:D:1375:GLU:HB2	2.11	0.51
1:D:1954:LEU:HD22	1:D:1971:ARG:HH21	1.76	0.51
1:B:1767:GLN:HB3	1:B:1769:PHE:HE1	1.75	0.51
1:E:544:HIS:N	1:E:777:HIS:HE1	2.09	0.51
1:E:982:ARG:HH12	1:E:993:LEU:HD23	1.75	0.51
1:E:1167:PRO:O	1:E:1170:SER:N	2.44	0.51
1:E:1531:THR:O	1:E:1534:THR:OG1	2.20	0.51
1:E:1587:ARG:NH2	1:E:1657:GLU:OE1	2.42	0.51
1:E:1686:LEU:HA	1:E:1689:GLN:HE21	1.76	0.51
1:F:1097:PHE:CZ	1:F:1268:LEU:HD12	2.46	0.51
1:G:569:ASN:H	1:G:639:HIS:CE1	2.29	0.51
1:G:1865:GLU:OE1	1:G:1867:PRO:HD2	2.11	0.51
1:H:1599:TRP:HA	1:H:1602:ASN:OD1	2.11	0.51
1:A:231:LEU:O	1:A:234:LEU:HB2	2.11	0.50
1:A:394:PHE:C	1:A:462:GLN:HB2	2.36	0.50
1:A:1653:ASN:ND2	1:A:1848:ARG:HH21	2.09	0.50
1:C:283:LEU:N	1:C:293:SER:OG	2.44	0.50
1:C:719:PRO:O	1:C:720:GLN:HB3	2.11	0.50
1:C:1951:GLN:OE1	1:C:2017:LEU:HD11	2.11	0.50
1:D:836:VAL:O	1:D:940:LYS:NZ	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:397:THR:HB	1:B:459:PHE:HA	1.92	0.50
1:B:581:ASP:OD2	1:B:584:GLN:NE2	2.37	0.50
1:B:1474:ILE:O	1:B:1478:ARG:HG3	2.11	0.50
1:B:1629:GLU:HG2	1:B:1643:GLY:HA2	1.93	0.50
1:E:335:ASP:OD1	1:E:480:ARG:NH2	2.44	0.50
1:E:1096:MET:HG3	1:E:1166:LEU:HD12	1.92	0.50
1:E:1168:LEU:HD21	1:E:1257:VAL:HA	1.92	0.50
1:E:1633:LEU:HD13	1:E:1665:LEU:HD21	1.93	0.50
1:F:1564:ASP:O	1:F:1567:LYS:HG2	2.10	0.50
1:F:1770:VAL:HG12	1:F:1882:PHE:HE2	1.76	0.50
1:G:982:ARG:NE	1:G:982:ARG:O	2.44	0.50
1:H:1710:LEU:HA	1:H:1713:ILE:HD12	1.93	0.50
1:A:832:LEU:HB3	1:A:933:PHE:CZ	2.46	0.50
1:A:1474:ILE:O	1:A:1478:ARG:HG3	2.10	0.50
1:C:81:ASP:HB2	1:C:126:ARG:NE	2.26	0.50
1:C:294:GLU:OE2	1:C:552:TYR:OH	2.29	0.50
1:C:956:ARG:NH1	1:C:1009:ASP:HA	2.26	0.50
1:C:988:GLU:OE1	1:C:988:GLU:N	2.25	0.50
1:C:1408:ALA:O	1:C:1412:VAL:HG23	2.10	0.50
1:C:1630:TYR:CZ	1:C:1634:LEU:HD11	2.45	0.50
1:C:1746:ARG:HA	1:C:1746:ARG:HE	1.76	0.50
1:D:1099:LEU:HD13	1:D:1167:PRO:HG2	1.92	0.50
1:D:1578:LEU:HD12	1:D:1581:LEU:HD21	1.92	0.50
1:D:1756:PHE:HE1	1:D:1790:TYR:HE2	1.58	0.50
1:B:297:TYR:OH	1:B:618:GLU:O	2.28	0.50
1:B:988:GLU:HA	1:B:991:GLU:CG	2.41	0.50
1:B:1055:VAL:HA	1:B:1058:ASN:ND2	2.26	0.50
1:B:1441:ARG:HD2	1:B:1442:ALA:N	2.25	0.50
1:B:1870:HIS:HA	1:B:1904:VAL:HG21	1.92	0.50
1:E:463:GLU:CD	1:E:490:ARG:HH12	2.18	0.50
1:E:1587:ARG:HH21	1:E:1590:GLN:HB3	1.76	0.50
1:G:994:ASN:HD22	1:G:1040:LEU:HD12	1.76	0.50
1:H:981:THR:O	1:H:984:HIS:NE2	2.44	0.50
1:A:53:PRO:CG	1:A:1018:ARG:HE	2.22	0.50
1:A:1001:LEU:O	1:A:1004:LEU:HB2	2.12	0.50
1:A:1037:LEU:HD23	1:A:1041:ARG:HH21	1.76	0.50
1:A:1152:TYR:CE1	1:A:1161:VAL:HG21	2.46	0.50
1:A:1597:LEU:HD13	1:A:1678:PHE:CE2	2.47	0.50
1:A:1606:LYS:O	1:A:1610:LEU:HD23	2.11	0.50
1:C:550:LEU:O	1:C:713:ALA:HB1	2.11	0.50
1:C:787:VAL:HG12	1:C:801:GLY:HA2	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1104:ARG:HH22	1:C:1108:PHE:HA	1.77	0.50
1:C:1701:GLU:HG2	1:C:1702:ALA:N	2.25	0.50
1:D:1567:LYS:HA	1:D:1570:GLU:OE2	2.11	0.50
1:D:1948:GLU:O	1:D:1952:VAL:HG23	2.12	0.50
1:B:222:LEU:HB3	1:B:1435:HIS:NE2	2.26	0.50
1:B:330:THR:HG21	1:B:540:VAL:HG21	1.93	0.50
1:B:569:ASN:HB2	1:B:639:HIS:CE1	2.46	0.50
1:B:1453:GLU:OE1	1:B:1454:GLU:HG2	2.10	0.50
1:B:1988:ASN:O	1:B:1992:ILE:HG12	2.12	0.50
1:E:200:ASP:N	1:E:1527:ARG:HD3	2.27	0.50
1:E:1403:VAL:HG21	1:E:1412:VAL:HG11	1.94	0.50
1:E:1437:LEU:O	1:E:1441:ARG:HG3	2.12	0.50
1:E:1597:LEU:HD13	1:E:1677:HIS:HB2	1.93	0.50
1:E:1999:TYR:CE2	1:E:2003:LEU:HD11	2.47	0.50
1:E:2008:CYS:HA	1:E:2011:ARG:HD3	1.94	0.50
1:G:496:LEU:HG	1:G:498:ILE:HG23	1.94	0.50
1:G:563:ARG:HE	1:G:698:ARG:HH21	1.58	0.50
1:H:270:PHE:CE2	1:H:277:ILE:HD12	2.47	0.50
1:H:400:HIS:ND1	1:H:403:ASN:OD1	2.43	0.50
1:H:541:TYR:HD1	1:H:773:VAL:HG21	1.75	0.50
1:H:581:ASP:OD2	1:H:584:GLN:HG3	2.10	0.50
1:H:1587:ARG:HH21	1:H:1596:ARG:HH12	1.58	0.50
1:A:776:SER:HA	1:A:779:VAL:HG22	1.92	0.50
1:A:932:TRP:CG	1:A:933:PHE:N	2.79	0.50
1:A:1004:LEU:O	1:A:1008:VAL:HG12	2.12	0.50
1:A:1468:ARG:HA	1:A:1520:PHE:CZ	2.47	0.50
1:A:1722:LYS:HZ3	1:A:1725:ALA:HB3	1.77	0.50
1:A:1934:LEU:HD23	1:A:2003:LEU:HB3	1.93	0.50
1:C:284:TYR:N	1:C:337:PHE:O	2.44	0.50
1:C:1104:ARG:NH1	1:C:1107:HIS:O	2.43	0.50
1:C:1467:LEU:HB3	1:C:1513:LEU:HD22	1.93	0.50
1:C:1703:VAL:HA	1:C:1706:VAL:HG12	1.93	0.50
1:D:724:LEU:O	1:D:727:PHE:HB3	2.12	0.50
1:D:1017:VAL:O	1:D:1021:TYR:HD1	1.94	0.50
1:D:1101:GLY:N	1:D:1102:PRO:HD2	2.27	0.50
1:D:1278:LEU:HA	1:D:1281:LEU:HD12	1.94	0.50
1:D:1906:ILE:HA	1:D:1970:LEU:HD13	1.93	0.50
1:B:263:VAL:HG22	1:B:500:ILE:HG12	1.92	0.50
1:B:1253:LEU:O	1:B:1257:VAL:HG23	2.11	0.50
1:E:209:ARG:HD3	1:E:209:ARG:N	2.26	0.50
1:E:588:VAL:O	1:E:622:HIS:N	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1258:LEU:HD12	1:E:1391:VAL:HG23	1.92	0.50
1:E:1425:GLY:O	1:E:1465:ARG:NH2	2.44	0.50
1:E:1553:ASP:OD1	1:E:1554:LEU:N	2.44	0.50
1:E:1848:ARG:NH1	1:E:1880:HIS:O	2.44	0.50
1:E:2002:GLU:OE1	1:E:2006:ASN:ND2	2.45	0.50
1:F:1768:GLU:H	1:F:1890:ARG:NE	2.09	0.50
1:G:346:LEU:HD11	1:G:642:CYS:SG	2.52	0.50
1:G:728:PHE:HD1	1:G:782:LYS:HD2	1.76	0.50
1:G:1978:CYS:SG	1:G:2007:TYR:OH	2.45	0.50
1:H:140:ASP:OD1	1:H:141:THR:N	2.44	0.50
1:H:284:TYR:CE2	1:H:291:LYS:HG2	2.45	0.50
1:A:1010:ARG:H	1:A:1010:ARG:HD3	1.76	0.50
1:A:1300:LYS:NZ	1:A:1374:MET:HB3	2.26	0.50
1:A:1396:LEU:HD21	1:A:1443:LEU:HD11	1.91	0.50
1:C:220:GLU:CA	1:C:223:ARG:HH21	2.25	0.50
1:C:934:PHE:HD1	1:C:937:LEU:HD12	1.77	0.50
1:C:1039:THR:O	1:C:1042:MET:HG2	2.11	0.50
1:C:1437:LEU:O	1:C:1441:ARG:HG3	2.10	0.50
1:C:1723:LEU:O	1:C:1727:HIS:CB	2.45	0.50
1:D:474:LYS:HZ1	1:D:478:ASP:HB2	1.77	0.50
1:D:698:ARG:HH12	1:D:700:VAL:CG2	2.25	0.50
1:D:781:ASP:HB3	1:D:782:LYS:NZ	2.27	0.50
1:D:832:LEU:O	1:D:836:VAL:HG23	2.12	0.50
1:D:917:VAL:C	1:D:924:ARG:HH22	2.18	0.50
1:D:964:PHE:CE1	1:D:968:ILE:HD11	2.46	0.50
1:D:1963:LEU:HD12	1:D:1967:HIS:HE1	1.77	0.50
1:B:108:GLN:HE22	1:B:728:PHE:HB3	1.76	0.50
1:B:240:GLU:OE1	1:B:246:ARG:NH2	2.43	0.50
1:B:568:ARG:HE	1:B:611:LYS:HG2	1.77	0.50
1:B:753:VAL:O	1:B:757:LEU:HB2	2.11	0.50
1:B:767:ALA:HB3	1:B:772:LEU:HD11	1.93	0.50
1:B:988:GLU:HA	1:B:991:GLU:HG3	1.92	0.50
1:B:997:LEU:O	1:B:1000:PHE:HB3	2.12	0.50
1:B:1382:GLY:O	1:B:1386:THR:HG23	2.12	0.50
1:B:1644:CYS:HB3	1:B:1658:SER:HB2	1.93	0.50
1:B:1785:ARG:NH2	1:B:1789:PHE:HB2	2.26	0.50
1:E:320:THR:OG1	1:E:595:CYS:N	2.44	0.50
1:E:558:LEU:HD21	1:E:560:PHE:CE2	2.47	0.50
1:E:1058:ASN:ND2	1:E:1109:LEU:HB2	2.26	0.50
1:E:1874:THR:HG23	1:E:1896:GLU:HG2	1.92	0.50
1:F:49:GLU:O	1:F:1104:ARG:NH1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1686:LEU:HG	1:F:1689:GLN:HE21	1.77	0.50
1:F:1711:ILE:HG12	1:F:1723:LEU:HD11	1.93	0.50
1:G:393:PRO:HG3	1:G:466:ARG:CZ	2.41	0.50
1:G:808:MET:O	1:G:812:VAL:HG23	2.12	0.50
1:G:1958:PRO:HG3	1:G:1967:HIS:CE1	2.47	0.50
1:H:1472:SER:O	1:H:1478:ARG:NH1	2.40	0.50
1:H:1934:LEU:HD21	1:H:1985:LEU:HG	1.94	0.50
1:A:474:LYS:NZ	1:A:478:ASP:HB2	2.26	0.50
1:A:1440:GLN:O	1:A:1444:VAL:HG22	2.11	0.50
1:A:1720:TYR:CE2	1:B:1738:MET:HG3	2.46	0.50
1:A:1937:SER:HB3	1:A:1977:PHE:CE1	2.47	0.50
1:A:1960:ASP:HB3	1:A:1963:LEU:HD23	1.94	0.50
1:C:757:LEU:O	1:C:760:SER:OG	2.30	0.50
1:C:802:ARG:O	1:C:806:GLU:HG3	2.11	0.50
1:C:924:ARG:HH21	1:B:924:ARG:NH1	2.09	0.50
1:C:1609:GLU:OE2	1:C:1610:LEU:HG	2.11	0.50
1:C:1688:GLU:OE1	1:C:1726:VAL:HG22	2.12	0.50
1:C:1701:GLU:O	1:C:1704:ASN:HB3	2.11	0.50
1:C:1738:MET:SD	1:D:1721:LYS:HA	2.52	0.50
1:D:535:PHE:CD1	1:D:536:PRO:HD2	2.46	0.50
1:D:577:MET:HE2	1:D:632:HIS:NE2	2.27	0.50
1:D:1042:MET:O	1:D:1043:GLU:C	2.54	0.50
1:D:1653:ASN:HB3	1:D:1656:GLU:OE2	2.11	0.50
1:D:1861:ARG:HH22	1:D:1868:GLU:CD	2.20	0.50
1:D:1905:ALA:O	1:D:1909:MET:HG2	2.12	0.50
1:B:722:PRO:O	1:B:725:ASP:HB3	2.11	0.50
1:E:628:THR:HB	1:E:631:HIS:ND1	2.27	0.50
1:E:1099:LEU:HD12	1:E:1103:PHE:HB3	1.94	0.50
1:E:1592:SER:HB3	1:E:1595:LEU:HD23	1.93	0.50
1:E:1750:THR:O	1:E:1772:LYS:HA	2.12	0.50
1:F:1425:GLY:HA3	1:F:1465:ARG:HD3	1.92	0.50
1:F:1613:HIS:ND1	1:F:1696:MET:SD	2.85	0.50
1:F:1856:PHE:CE1	1:F:1872:ARG:HB2	2.46	0.50
1:G:1139:VAL:O	1:G:1143:LEU:HG	2.11	0.50
1:G:1931:GLN:HB3	1:G:1999:TYR:HE2	1.77	0.50
1:H:250:PRO:HG2	1:H:838:TYR:CE2	2.47	0.50
1:H:507:PRO:HB2	1:H:510:CYS:HB2	1.94	0.50
1:H:1586:ALA:O	1:H:1589:TYR:N	2.44	0.50
1:H:1693:TYR:HA	1:H:1696:MET:CG	2.42	0.50
1:A:1403:VAL:HG11	1:A:1412:VAL:HG21	1.94	0.50
1:A:1438:ALA:HB1	1:A:1441:ARG:HH21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1493:PHE:HD1	1:A:1499:PHE:HE1	1.59	0.50
1:C:575:GLN:HG3	1:C:577:MET:SD	2.52	0.50
1:C:721:ASP:CB	1:C:724:LEU:HD13	2.41	0.50
1:C:730:LEU:HB3	1:C:757:LEU:HD13	1.91	0.50
1:C:1015:SER:HA	1:C:1018:ARG:NE	2.27	0.50
1:C:1168:LEU:HA	1:C:1171:ILE:HG12	1.92	0.50
1:C:1502:VAL:HA	1:C:1505:GLN:NE2	2.27	0.50
1:D:72:LEU:HA	1:D:75:LEU:HD12	1.92	0.50
1:D:1154:GLU:O	1:D:1158:LYS:HG2	2.12	0.50
1:D:1168:LEU:HG	1:D:1257:VAL:HG13	1.93	0.50
1:D:1284:LEU:HD22	1:D:1285:LEU:HD22	1.94	0.50
1:D:1501:ARG:HH22	1:D:1672:PHE:HA	1.77	0.50
1:D:1502:VAL:HA	1:D:1505:GLN:HG2	1.93	0.50
1:D:1711:ILE:HB	1:D:1712:PRO:HD3	1.94	0.50
1:D:1769:PHE:HE1	1:D:1890:ARG:HH21	1.60	0.50
1:D:1925:PRO:HB2	1:D:1991:LEU:HD11	1.94	0.50
1:B:206:LEU:HD11	1:B:1483:ALA:HB1	1.92	0.50
1:B:309:LEU:HD13	1:B:391:ARG:HH22	1.77	0.50
1:B:754:GLU:CD	1:B:754:GLU:H	2.17	0.50
1:B:755:GLN:HG3	1:B:758:ARG:HH21	1.76	0.50
1:B:957:LYS:HZ1	1:B:958:LEU:HD22	1.77	0.50
1:B:1150:PRO:HG2	1:B:1151:ARG:NH1	2.26	0.50
1:B:1472:SER:O	1:B:1478:ARG:HD3	2.11	0.50
1:B:1830:ASP:N	1:B:1833:GLU:OE2	2.43	0.50
1:B:1855:PRO:HB2	1:B:1869:GLN:HE21	1.76	0.50
1:E:46:PRO:HB2	1:E:49:GLU:H	1.77	0.50
1:E:56:PHE:CD2	1:E:1010:ARG:HB2	2.46	0.50
1:E:90:ARG:HA	1:E:120:TRP:NE1	2.25	0.50
1:E:250:PRO:HG2	1:E:838:TYR:CE2	2.46	0.50
1:E:832:LEU:HB3	1:E:933:PHE:CE1	2.47	0.50
1:E:908:LEU:HD23	1:E:941:SER:HB2	1.93	0.50
1:E:958:LEU:HD23	1:E:958:LEU:H	1.76	0.50
1:E:988:GLU:OE2	1:E:992:HIS:ND1	2.45	0.50
1:E:1120:ALA:HB1	1:E:1131:LEU:HB3	1.93	0.50
1:E:1707:TYR:O	1:E:1711:ILE:HG13	2.11	0.50
1:E:1853:CYS:SG	1:E:1873:LYS:HE3	2.52	0.50
1:F:1039:THR:O	1:F:1043:GLU:HG2	2.12	0.50
1:F:1571:HIS:HB3	1:F:1574:ASP:HB3	1.94	0.50
1:F:1681:LEU:HA	1:F:1684:VAL:HG22	1.92	0.50
1:G:576:TYR:O	1:G:577:MET:HE2	2.11	0.50
1:G:1099:LEU:HD11	1:G:1104:ARG:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1630:TYR:CZ	1:G:1673:CYS:HB2	2.47	0.50
1:H:832:LEU:HB2	1:H:932:TRP:HH2	1.76	0.50
1:H:1267:ALA:O	1:H:1271:ARG:HG2	2.11	0.50
1:H:1589:TYR:C	1:H:1596:ARG:HD3	2.37	0.50
1:H:1770:VAL:HB	1:H:1889:ILE:HG22	1.92	0.50
1:H:1788:GLU:HA	1:H:1791:THR:HB	1.93	0.50
1:A:634:LEU:HA	1:A:658:TRP:HA	1.94	0.50
1:A:983:VAL:HA	1:A:986:ASP:O	2.11	0.50
1:A:1437:LEU:O	1:A:1441:ARG:HG3	2.12	0.50
1:C:1169:LEU:HD12	1:C:1170:SER:N	2.27	0.50
1:D:84:GLU:HB2	1:D:126:ARG:HH12	1.77	0.50
1:D:473:PHE:HA	1:D:476:LEU:HD12	1.94	0.50
1:D:755:GLN:HA	1:D:758:ARG:NE	2.26	0.50
1:D:840:PHE:CE1	1:D:842:LEU:HB2	2.47	0.50
1:D:1712:PRO:HA	1:D:1715:GLU:HB3	1.93	0.50
1:D:1753:ARG:NH2	1:D:1823:THR:OG1	2.40	0.50
1:B:511:LEU:N	1:B:529:THR:O	2.35	0.50
1:B:916:TRP:HH2	1:B:931:ALA:HB1	1.76	0.50
1:E:577:MET:HE3	1:E:582:PRO:HA	1.94	0.50
1:E:1647:PHE:HB3	1:E:1654:VAL:HG21	1.93	0.50
1:F:141:THR:HB	1:F:145:ARG:NH1	2.24	0.50
1:F:272:ILE:HG23	1:F:493:THR:HG21	1.94	0.50
1:F:1021:TYR:HA	1:F:1024:VAL:HG12	1.93	0.50
1:F:1515:GLY:HA3	1:F:1602:ASN:OD1	2.11	0.50
1:G:761:LEU:HD23	1:G:764:LEU:HD21	1.94	0.50
1:G:972:VAL:HG21	1:G:1016:LEU:HD22	1.93	0.50
1:G:1110:ALA:O	1:G:1114:LEU:HG	2.12	0.50
1:G:1931:GLN:NE2	1:G:1988:ASN:OD1	2.35	0.50
1:H:934:PHE:HA	1:H:937:LEU:HD12	1.94	0.50
1:H:955:PRO:HG2	1:H:958:LEU:HD21	1.93	0.50
1:H:1766:GLU:HG3	1:H:1766:GLU:O	2.11	0.50
1:A:120:TRP:HZ3	1:A:839:ALA:HB2	1.77	0.50
1:A:223:ARG:HH12	1:A:224:ARG:NH1	2.10	0.50
1:A:401:LEU:HD13	1:A:500:ILE:HD13	1.94	0.50
1:A:463:GLU:OE1	1:A:463:GLU:N	2.45	0.50
1:A:832:LEU:HB3	1:A:933:PHE:CE1	2.47	0.50
1:A:1630:TYR:HE1	1:A:1665:LEU:HD21	1.77	0.50
1:A:1936:GLY:HA2	1:A:1940:PRO:HA	1.93	0.50
1:C:282:ALA:HB3	1:C:284:TYR:OH	2.12	0.50
1:C:1285:LEU:HD11	1:C:1399:ILE:HD13	1.93	0.50
1:C:1415:ALA:HA	1:C:1418:LYS:HE2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1789:PHE:HZ	1:C:1793:ARG:HH21	1.59	0.50
1:D:780:LEU:HA	1:D:808:MET:HE3	1.94	0.50
1:D:966:ASP:O	1:D:969:THR:HB	2.11	0.50
1:D:1449:GLU:HB3	1:D:1453:GLU:HG2	1.93	0.50
1:D:1728:GLY:HA2	1:D:1731:GLN:HG2	1.93	0.50
1:D:1732:GLU:HG2	1:D:1736:LYS:NZ	2.26	0.50
1:D:1804:ASP:N	1:D:1804:ASP:OD1	2.44	0.50
1:B:1178:ARG:HG3	1:B:1244:ALA:HA	1.93	0.50
1:B:1529:LEU:HA	1:B:1532:ILE:HD12	1.94	0.50
1:B:1968:ASN:HA	1:B:1971:ARG:NE	2.27	0.50
1:E:1462:LEU:O	1:E:1466:LEU:HG	2.12	0.50
1:F:551:LEU:HD21	1:F:623:LEU:HB2	1.94	0.50
1:F:783:LEU:HB3	1:F:808:MET:HE2	1.94	0.50
1:F:1260:VAL:O	1:F:1264:THR:OG1	2.24	0.50
1:F:1699:LEU:HB3	1:F:1702:ALA:HB3	1.94	0.50
1:F:1733:ALA:HA	1:F:1736:LYS:NZ	2.27	0.50
1:G:969:THR:HG22	1:G:1016:LEU:HD21	1.92	0.50
1:G:982:ARG:NH2	1:G:985:LYS:HB2	2.27	0.50
1:H:558:LEU:HD21	1:H:560:PHE:CE2	2.47	0.50
1:A:394:PHE:O	1:A:461:LYS:HD2	2.12	0.49
1:A:743:LEU:HG	1:A:748:LEU:CD1	2.41	0.49
1:A:1128:ALA:O	1:A:1131:LEU:HB2	2.12	0.49
1:A:1472:SER:O	1:A:1478:ARG:HD3	2.12	0.49
1:C:1731:GLN:O	1:C:1735:THR:HG23	2.11	0.49
1:D:1122:GLU:HB2	1:D:1124:GLU:HG2	1.93	0.49
1:D:1439:THR:O	1:D:1443:LEU:HG	2.12	0.49
1:B:662:LEU:N	1:B:668:ARG:HH21	2.09	0.49
1:B:699:TRP:CB	1:B:703:HIS:HA	2.42	0.49
1:B:787:VAL:HG12	1:B:801:GLY:HA2	1.93	0.49
1:B:998:ALA:O	1:B:1001:LEU:N	2.45	0.49
1:B:1461:ASP:HA	1:B:1464:LEU:HD12	1.94	0.49
1:B:1572:GLN:NE2	1:B:1573:GLU:OE1	2.44	0.49
1:B:1727:HIS:O	1:B:1730:LEU:HB2	2.11	0.49
1:E:480:ARG:C	1:E:481:ARG:HD2	2.37	0.49
1:E:490:ARG:H	1:E:490:ARG:HD3	1.77	0.49
1:E:679:ASP:OD1	1:E:680:GLN:N	2.44	0.49
1:E:1437:LEU:O	1:E:1440:GLN:NE2	2.45	0.49
1:F:461:LYS:HB2	1:F:492:VAL:HG21	1.93	0.49
1:F:982:ARG:HH21	1:F:985:LYS:HB2	1.76	0.49
1:F:1442:ALA:O	1:F:1446:LYS:HG2	2.12	0.49
1:F:1613:HIS:CE1	1:F:1696:MET:HE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1711:ILE:O	1:F:1715:GLU:HG2	2.11	0.49
1:G:386:ARG:NH1	1:G:650:LEU:HD13	2.27	0.49
1:G:982:ARG:HH21	1:G:985:LYS:HB2	1.76	0.49
1:G:1447:PHE:HD2	1:G:1450:LEU:HB2	1.75	0.49
1:G:1695:THR:OG1	1:G:1703:VAL:HG21	2.11	0.49
1:H:85:LEU:HD11	1:H:947:LEU:HB3	1.94	0.49
1:H:95:THR:OG1	1:H:517:HIS:HB2	2.11	0.49
1:H:129:TYR:HA	1:H:134:TYR:HB3	1.93	0.49
1:H:916:TRP:CH2	1:H:938:MET:HE1	2.46	0.49
1:H:1471:GLY:HA3	1:H:1520:PHE:CD1	2.46	0.49
1:H:1631:LEU:HG	1:H:1640:LEU:HD22	1.94	0.49
1:H:1706:VAL:O	1:H:1709:ASN:HB2	2.12	0.49
1:A:93:ARG:NH2	1:A:507:PRO:HD3	2.27	0.49
1:A:699:TRP:CB	1:A:703:HIS:HA	2.42	0.49
1:A:745:ASP:OD1	1:A:746:THR:N	2.45	0.49
1:A:976:GLY:O	1:A:977:LEU:C	2.55	0.49
1:A:1017:VAL:O	1:A:1020:HIS:HB3	2.12	0.49
1:C:250:PRO:O	1:C:838:TYR:OH	2.23	0.49
1:C:327:PHE:CE1	1:C:532:ILE:HG13	2.48	0.49
1:D:249:ARG:HG3	1:D:837:HIS:CE1	2.48	0.49
1:D:767:ALA:HB3	1:D:772:LEU:HD11	1.93	0.49
1:D:1113:LEU:O	1:D:1117:LEU:HG	2.12	0.49
1:B:47:LEU:HD12	1:B:48:THR:N	2.27	0.49
1:B:1582:MET:CG	1:B:1603:MET:HE1	2.43	0.49
1:E:344:LYS:HB2	1:E:394:PHE:HB2	1.92	0.49
1:E:1543:ARG:CZ	1:E:1548:ALA:HB2	2.41	0.49
1:E:1852:PHE:HE2	1:E:1854:THR:HG22	1.77	0.49
1:F:1424:LEU:HD11	1:F:1436:GLY:HA3	1.93	0.49
1:F:1510:LEU:HD22	1:F:1558:LEU:HB3	1.93	0.49
1:F:1653:ASN:OD1	1:F:1881:ALA:N	2.30	0.49
1:G:127:TYR:HB3	1:G:130:LEU:HD12	1.93	0.49
1:G:916:TRP:O	1:G:924:ARG:NH1	2.45	0.49
1:G:1034:PRO:HA	1:G:1037:LEU:HD13	1.94	0.49
1:H:140:ASP:HA	1:H:143:ARG:CD	2.42	0.49
1:H:1437:LEU:O	1:H:1441:ARG:HG3	2.12	0.49
1:H:1611:GLY:O	1:H:1613:HIS:NE2	2.45	0.49
1:H:1701:GLU:OE1	1:H:1701:GLU:N	2.29	0.49
1:H:1751:TYR:CG	1:H:1850:PHE:HE1	2.29	0.49
1:H:1805:SER:HB3	1:H:1854:THR:HG22	1.94	0.49
1:A:466:ARG:HH22	1:A:605:PRO:HB2	1.77	0.49
1:A:667:LEU:HD23	1:A:667:LEU:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1028:LEU:HD12	1:A:1029:GLN:N	2.27	0.49
1:A:1826:GLU:HG2	1:A:1851:LEU:O	2.13	0.49
1:C:1430:ALA:O	1:C:1434:GLN:HG2	2.12	0.49
1:C:1650:ILE:O	1:C:1845:TYR:OH	2.28	0.49
1:C:1734:PHE:CZ	1:D:1720:TYR:HB2	2.47	0.49
1:C:1773:GLU:HG2	1:C:1777:THR:HG21	1.94	0.49
1:C:1871:LYS:HB3	1:C:1899:LEU:HD12	1.94	0.49
1:D:979:VAL:HG21	1:D:994:ASN:HB3	1.94	0.49
1:D:1038:LEU:O	1:D:1041:ARG:HB3	2.13	0.49
1:D:1451:LEU:HB3	1:D:1459:CYS:HB2	1.94	0.49
1:D:1633:LEU:HD13	1:D:1665:LEU:HD11	1.94	0.49
1:B:306:LYS:HG3	1:B:310:ARG:HE	1.77	0.49
1:B:331:TYR:CE2	1:B:538:ARG:HB2	2.47	0.49
1:B:513:PRO:HD3	1:B:531:GLU:CD	2.36	0.49
1:B:798:VAL:HG13	1:B:800:LEU:HD23	1.93	0.49
1:B:915:GLN:NE2	1:B:916:TRP:HD1	2.10	0.49
1:B:1617:ALA:HB1	1:B:1694:PHE:CE1	2.47	0.49
1:B:1937:SER:HB3	1:B:1977:PHE:CE1	2.47	0.49
1:B:2003:LEU:HA	1:B:2006:ASN:HD21	1.77	0.49
1:E:514:GLU:HA	1:E:590:PHE:CE2	2.47	0.49
1:E:942:MET:HE1	1:E:1007:LEU:HB3	1.94	0.49
1:E:1098:GLU:HA	1:E:1167:PRO:HB3	1.94	0.49
1:E:1820:ILE:HG22	1:E:1822:ILE:HD11	1.95	0.49
1:F:1121:LEU:O	1:F:1132:HIS:NE2	2.46	0.49
1:G:466:ARG:HH21	1:G:607:VAL:HG22	1.77	0.49
1:G:569:ASN:OD1	1:G:609:HIS:N	2.44	0.49
1:G:1176:LEU:HD12	1:G:1179:LEU:HB2	1.94	0.49
1:G:1989:LYS:HE3	1:G:2000:HIS:HE1	1.77	0.49
1:H:727:PHE:CZ	1:H:779:VAL:HA	2.47	0.49
1:H:734:LEU:HD22	1:H:786:LEU:HD11	1.95	0.49
1:H:769:PRO:HA	1:H:772:LEU:HD12	1.95	0.49
1:H:925:GLU:O	1:H:928:LEU:HB3	2.12	0.49
1:H:1574:ASP:O	1:H:1578:LEU:HB2	2.11	0.49
1:H:1639:HIS:CD2	1:H:1640:LEU:HB3	2.47	0.49
1:A:460:PHE:CD1	1:A:489:LEU:HB3	2.47	0.49
1:A:1052:GLU:HG3	1:A:1053:HIS:H	1.78	0.49
1:A:1253:LEU:O	1:A:1257:VAL:HG23	2.11	0.49
1:A:1453:GLU:OE1	1:A:1454:GLU:HG2	2.12	0.49
1:A:1720:TYR:HB2	1:A:1723:LEU:HB2	1.94	0.49
1:A:1737:ILE:O	1:A:1740:GLN:NE2	2.45	0.49
1:A:1810:LYS:HD2	1:A:1813:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2001:ARG:O	1:A:2005:ARG:HG2	2.12	0.49
1:C:1038:LEU:O	1:C:1041:ARG:HB3	2.13	0.49
1:C:1910:GLN:HB2	1:C:1973:CYS:SG	2.53	0.49
1:D:120:TRP:CZ3	1:D:839:ALA:HB2	2.46	0.49
1:D:638:TYR:HB3	1:D:651:GLU:HB3	1.93	0.49
1:D:1162:ALA:HA	1:D:1165:TYR:CD2	2.43	0.49
1:D:1386:THR:O	1:D:1390:LEU:HG	2.11	0.49
1:D:1764:LEU:C	1:D:1767:GLN:HG2	2.37	0.49
1:D:1963:LEU:HD12	1:D:1967:HIS:CE1	2.47	0.49
1:B:85:LEU:HD11	1:B:947:LEU:HB3	1.94	0.49
1:B:153:VAL:HG21	1:B:1474:ILE:HD11	1.93	0.49
1:B:826:ARG:HG3	1:B:828:HIS:H	1.78	0.49
1:B:980:ILE:HG21	1:B:1027:ARG:HG3	1.94	0.49
1:B:1009:ASP:OD1	1:B:1011:GLY:N	2.42	0.49
1:B:1597:LEU:HD13	1:B:1678:PHE:CE2	2.47	0.49
1:B:1848:ARG:HG3	1:B:1881:ALA:HB2	1.93	0.49
1:E:231:LEU:HB2	1:E:1262:LYS:NZ	2.27	0.49
1:E:1857:THR:OG1	1:E:1859:ASP:OD1	2.29	0.49
1:E:1960:ASP:HB3	1:E:1963:LEU:HD23	1.94	0.49
1:F:300:LEU:HD13	1:F:323:ARG:CZ	2.43	0.49
1:F:1599:TRP:HA	1:F:1602:ASN:ND2	2.28	0.49
1:G:123:VAL:HG13	1:G:947:LEU:HD11	1.93	0.49
1:G:250:PRO:HG2	1:G:838:TYR:CE2	2.47	0.49
1:G:786:LEU:HD21	1:G:800:LEU:HG	1.94	0.49
1:G:1599:TRP:HA	1:G:1602:ASN:ND2	2.26	0.49
1:H:90:ARG:HA	1:H:120:TRP:NE1	2.27	0.49
1:H:344:LYS:HB2	1:H:394:PHE:HB2	1.94	0.49
1:H:658:TRP:CD2	1:H:685:TYR:HD2	2.31	0.49
1:H:960:PHE:HB3	1:H:964:PHE:HD2	1.78	0.49
1:H:1024:VAL:HG11	1:H:1041:ARG:NH1	2.27	0.49
1:H:1606:LYS:O	1:H:1609:GLU:HG3	2.13	0.49
1:H:1686:LEU:HA	1:H:1689:GLN:HE21	1.77	0.49
1:A:142:GLN:HB2	1:A:146:GLN:HE22	1.78	0.49
1:A:658:TRP:CD1	1:A:660:PRO:HG3	2.48	0.49
1:A:1058:ASN:CG	1:A:1109:LEU:HB2	2.37	0.49
1:A:1471:GLY:HA3	1:A:1520:PHE:CD1	2.47	0.49
1:A:1936:GLY:O	1:A:1940:PRO:HB3	2.12	0.49
1:C:207:LEU:O	1:C:209:ARG:NH1	2.46	0.49
1:C:284:TYR:O	1:C:337:PHE:N	2.39	0.49
1:C:321:LEU:HD23	1:C:321:LEU:O	2.13	0.49
1:C:815:VAL:O	1:C:818:SER:OG	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1561:ILE:HA	1:C:1564:ASP:OD2	2.13	0.49
1:C:1637:HIS:H	1:C:1640:LEU:HG	1.77	0.49
1:C:1724:ALA:CA	1:D:1734:PHE:HE2	2.25	0.49
1:C:1948:GLU:O	1:C:1952:VAL:HG23	2.11	0.49
1:D:727:PHE:CZ	1:D:782:LYS:HB2	2.47	0.49
1:D:1019:ALA:O	1:D:1020:HIS:C	2.55	0.49
1:D:1055:VAL:HA	1:D:1058:ASN:HD22	1.76	0.49
1:D:1276:LEU:HB3	1:D:1281:LEU:HD21	1.95	0.49
1:B:396:TRP:N	1:B:460:PHE:O	2.35	0.49
1:B:988:GLU:O	1:B:991:GLU:HG3	2.12	0.49
1:B:1878:THR:HB	1:B:1889:ILE:HG13	1.95	0.49
1:F:90:ARG:NH1	1:F:118:GLU:O	2.46	0.49
1:F:466:ARG:HB3	1:F:614:GLU:HB2	1.93	0.49
1:F:780:LEU:HD11	1:F:835:TYR:CE2	2.48	0.49
1:F:915:GLN:NE2	1:F:916:TRP:CD1	2.80	0.49
1:F:1607:HIS:HB2	1:F:1616:ALA:HB2	1.95	0.49
1:G:465:GLU:HG2	1:G:610:ASN:ND2	2.27	0.49
1:G:753:VAL:HA	1:G:756:GLU:OE2	2.12	0.49
1:G:1113:LEU:O	1:G:1116:GLU:HG3	2.12	0.49
1:G:1533:LEU:HA	1:G:1552:GLN:HE22	1.78	0.49
1:G:1989:LYS:HE3	1:G:2000:HIS:CE1	2.47	0.49
1:A:106:ASP:OD1	1:A:107:ALA:N	2.46	0.49
1:A:288:GLU:O	1:A:289:LYS:HG2	2.12	0.49
1:A:1058:ASN:OD1	1:A:1109:LEU:HB2	2.12	0.49
1:A:1436:GLY:O	1:A:1439:THR:HB	2.13	0.49
1:C:227:ARG:NH2	1:C:1391:VAL:HG12	2.28	0.49
1:C:768:SER:OG	1:C:770:GLU:OE1	2.30	0.49
1:C:1109:LEU:H	1:C:1109:LEU:HD12	1.77	0.49
1:C:1829:PHE:HB3	1:C:1833:GLU:HG2	1.93	0.49
1:C:2023:PRO:HA	1:E:1556:PHE:CE2	2.48	0.49
1:D:321:LEU:HD23	1:D:527:ARG:NE	2.25	0.49
1:D:1018:ARG:HH11	1:D:1019:ALA:N	2.10	0.49
1:D:1515:GLY:HA3	1:D:1602:ASN:OD1	2.11	0.49
1:D:1764:LEU:O	1:D:1767:GLN:HG2	2.13	0.49
1:B:398:ALA:HB2	1:B:476:LEU:HD23	1.92	0.49
1:B:569:ASN:HB2	1:B:639:HIS:HE1	1.77	0.49
1:B:745:ASP:OD1	1:B:745:ASP:N	2.44	0.49
1:E:1686:LEU:HG	1:E:1689:GLN:HE21	1.78	0.49
1:E:1727:HIS:HB2	1:H:1731:GLN:HG3	1.95	0.49
1:E:1927:ALA:O	1:E:1931:GLN:HB2	2.12	0.49
1:F:219:ASN:O	1:F:223:ARG:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:915:GLN:HA	1:F:918:VAL:HG22	1.95	0.49
1:F:1144:CYS:O	1:F:1148:THR:HG23	2.13	0.49
1:F:1802:ILE:HD12	1:F:1821:GLN:N	2.26	0.49
1:G:1965:ARG:HE	1:G:1966:HIS:CE1	2.31	0.49
1:H:1530:LYS:HA	1:H:1533:LEU:HD12	1.94	0.49
1:H:1722:LYS:O	1:H:1726:VAL:HG23	2.13	0.49
1:A:460:PHE:HB3	1:A:489:LEU:HD22	1.95	0.49
1:A:549:ASN:OD1	1:A:715:SER:HA	2.13	0.49
1:A:699:TRP:CD1	1:A:703:HIS:HD1	2.29	0.49
1:A:911:GLU:O	1:A:915:GLN:HG3	2.13	0.49
1:A:1003:ASP:O	1:A:1006:SER:HB3	2.13	0.49
1:C:571:ALA:HB1	1:C:603:PHE:CD2	2.48	0.49
1:C:577:MET:HB2	1:C:632:HIS:CE1	2.47	0.49
1:C:1028:LEU:HD11	1:C:1038:LEU:HD21	1.93	0.49
1:C:1502:VAL:HA	1:C:1505:GLN:HG2	1.95	0.49
1:C:1596:ARG:O	1:C:1600:LEU:HD23	2.13	0.49
1:D:590:PHE:CG	1:D:620:LYS:HG2	2.48	0.49
1:D:746:THR:HG22	1:D:747:VAL:O	2.13	0.49
1:D:1422:TYR:HA	1:D:1465:ARG:CZ	2.42	0.49
1:D:1455:ASP:HB3	1:D:1458:LEU:CD1	2.42	0.49
1:D:1502:VAL:HA	1:D:1505:GLN:NE2	2.28	0.49
1:D:1551:VAL:HG12	1:D:1555:MET:CE	2.42	0.49
1:D:1557:ASN:O	1:D:1560:MET:HG3	2.13	0.49
1:D:1587:ARG:CZ	1:D:1596:ARG:HH22	2.24	0.49
1:D:1824:TYR:CG	1:D:1825:VAL:N	2.80	0.49
1:B:288:GLU:OE2	1:B:290:LYS:HE3	2.12	0.49
1:B:587:PRO:HD3	1:B:600:ARG:CZ	2.42	0.49
1:B:944:LEU:HA	1:B:947:LEU:HD12	1.93	0.49
1:B:2014:LEU:HB3	1:B:2018:LEU:HG	1.93	0.49
1:E:380:ALA:HA	1:E:383:PHE:CD2	2.47	0.49
1:E:1533:LEU:HG	1:E:1552:GLN:OE1	2.12	0.49
1:E:1665:LEU:HD23	1:E:1672:PHE:CE2	2.48	0.49
1:E:1694:PHE:HB3	1:E:1699:LEU:HB2	1.94	0.49
1:F:561:SER:HB3	1:F:612:SER:HB3	1.94	0.49
1:F:1723:LEU:O	1:F:1727:HIS:HB2	2.13	0.49
1:G:578:THR:H	1:G:584:GLN:HG3	1.78	0.49
1:G:1400:VAL:HG21	1:G:1443:LEU:HD21	1.94	0.49
1:G:1499:PHE:CE2	1:G:1503:LYS:HE3	2.46	0.49
1:G:1813:LEU:HD22	1:G:1819:TYR:CE1	2.47	0.49
1:H:204:PRO:HA	1:H:207:LEU:HG	1.95	0.49
1:H:1015:SER:O	1:H:1018:ARG:HD3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1112:LEU:O	1:H:1116:GLU:OE1	2.31	0.49
1:H:1462:LEU:O	1:H:1466:LEU:HG	2.12	0.49
1:H:1698:GLY:O	1:H:1746:ARG:NH2	2.45	0.49
1:H:1838:VAL:O	1:H:1843:ARG:NH2	2.45	0.49
1:A:281:LEU:O	1:A:296:PHE:N	2.38	0.49
1:A:670:GLY:H	1:A:711:LEU:HB3	1.78	0.49
1:A:782:LYS:HA	1:A:785:ARG:HH12	1.77	0.49
1:A:805:PHE:CD2	1:A:915:GLN:HG2	2.47	0.49
1:A:807:ALA:O	1:A:811:VAL:HG23	2.12	0.49
1:A:1132:HIS:O	1:A:1133:LYS:C	2.55	0.49
1:A:1856:PHE:CE1	1:A:1872:ARG:HG3	2.48	0.49
1:C:120:TRP:CE3	1:C:838:TYR:HB3	2.48	0.49
1:C:1015:SER:HA	1:C:1018:ARG:CD	2.43	0.49
1:C:1439:THR:O	1:C:1443:LEU:HG	2.11	0.49
1:C:1486:TYR:OH	1:C:1539:ASP:HB2	2.13	0.49
1:D:774:ALA:O	1:D:777:HIS:HE1	1.96	0.49
1:D:1004:LEU:O	1:D:1008:VAL:HG12	2.11	0.49
1:D:1830:ASP:H	1:D:1833:GLU:CD	2.18	0.49
1:D:1875:LEU:HB2	1:D:1895:GLU:HG2	1.95	0.49
1:D:1886:LYS:HZ1	1:D:1888:ARG:HG2	1.77	0.49
1:B:335:ASP:HA	1:B:337:PHE:HE2	1.78	0.49
1:B:1108:PHE:O	1:B:1112:LEU:HG	2.13	0.49
1:B:1175:THR:C	1:B:1179:LEU:HG	2.38	0.49
1:B:1706:VAL:O	1:B:1710:LEU:HD23	2.13	0.49
1:B:1737:ILE:O	1:B:1741:SER:OG	2.22	0.49
1:F:1139:VAL:O	1:F:1143:LEU:HG	2.12	0.49
1:F:1394:ASP:O	1:F:1398:ILE:HG12	2.12	0.49
1:F:1451:LEU:HD23	1:F:1458:LEU:HG	1.93	0.49
1:F:1492:ASN:HD22	1:F:1502:VAL:HG23	1.78	0.49
1:F:2014:LEU:HD23	1:F:2017:LEU:HD12	1.95	0.49
1:H:54:LEU:HD13	1:H:1105:GLN:HB3	1.93	0.49
1:H:214:ASP:HA	1:H:217:ARG:HE	1.78	0.49
1:H:391:ARG:O	1:H:606:VAL:N	2.46	0.49
1:H:1046:ARG:HH21	1:H:1047:ILE:HG13	1.78	0.49
1:H:1437:LEU:HG	1:H:1440:GLN:HE21	1.77	0.49
1:H:1725:ALA:HB1	1:H:1729:LYS:HZ1	1.78	0.49
1:H:1758:GLY:N	1:H:1765:ASP:OD1	2.26	0.49
1:H:1768:GLU:HG3	1:H:1891:VAL:HB	1.94	0.49
1:H:1856:PHE:HZ	1:H:1898:VAL:HG22	1.78	0.49
1:H:1960:ASP:HB3	1:H:1963:LEU:HD23	1.93	0.49
1:A:558:LEU:HD21	1:A:560:PHE:CZ	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:955:PRO:O	1:A:959:ARG:HG3	2.13	0.49
1:A:1040:LEU:HD13	1:A:1043:GLU:OE1	2.12	0.49
1:C:86:LEU:HD23	1:C:124:HIS:HB3	1.95	0.49
1:D:317:ALA:HB3	1:D:596:SER:HA	1.94	0.49
1:D:551:LEU:HD21	1:D:623:LEU:HB2	1.95	0.49
1:D:1531:THR:O	1:D:1534:THR:OG1	2.25	0.49
1:D:1630:TYR:CE2	1:D:1634:LEU:HD11	2.48	0.49
1:D:1637:HIS:O	1:D:1640:LEU:HG	2.13	0.49
1:B:229:PRO:HA	1:B:1262:LYS:HZ2	1.78	0.49
1:B:264:LYS:HB2	1:B:499:ASP:HB2	1.94	0.49
1:B:350:ASP:OD1	1:B:609:HIS:NE2	2.46	0.49
1:B:814:LEU:HA	1:B:817:ARG:HG2	1.94	0.49
1:B:1606:LYS:O	1:B:1609:GLU:HG3	2.13	0.49
1:E:220:GLU:O	1:E:224:ARG:HG2	2.13	0.49
1:E:222:LEU:O	1:E:1435:HIS:NE2	2.44	0.49
1:E:1822:ILE:O	1:E:1823:THR:OG1	2.27	0.49
1:F:151:ARG:NH1	1:F:153:VAL:HA	2.27	0.49
1:F:560:PHE:HB2	1:F:613:PRO:HD2	1.94	0.49
1:F:567:VAL:HA	1:F:639:HIS:CD2	2.47	0.49
1:F:732:HIS:O	1:F:735:GLU:HG3	2.12	0.49
1:G:813:SER:O	1:G:817:ARG:HD3	2.13	0.49
1:G:1023:GLN:NE2	1:G:1027:ARG:HD3	2.28	0.49
1:G:1034:PRO:O	1:G:1038:LEU:HG	2.13	0.49
1:G:1403:VAL:HG12	1:G:1409:ARG:HD3	1.95	0.49
1:G:1438:ALA:HA	1:G:1441:ARG:NE	2.27	0.49
1:H:666:ARG:HH22	1:H:718:HIS:HB3	1.77	0.49
1:H:908:LEU:HD23	1:H:941:SER:HB2	1.95	0.49
1:H:1468:ARG:HA	1:H:1520:PHE:HZ	1.78	0.49
1:H:1749:GLY:HA2	1:H:1774:PRO:CA	2.42	0.49
1:H:1846:GLY:C	1:H:1881:ALA:HB1	2.38	0.49
1:A:655:GLY:HA2	1:A:677:SER:O	2.13	0.49
1:A:1099:LEU:O	1:A:1104:ARG:NH2	2.46	0.49
1:A:1130:LEU:HD23	1:A:1133:LYS:HZ3	1.78	0.49
1:A:1139:VAL:HG23	1:A:1142:LEU:HD23	1.95	0.49
1:A:1160:ARG:HD3	1:A:1163:GLU:CD	2.37	0.49
1:C:694:LEU:HB2	1:C:697:MET:HB2	1.95	0.49
1:C:840:PHE:HB3	1:C:940:LYS:NZ	2.28	0.49
1:C:1459:CYS:HA	1:C:1462:LEU:HB3	1.95	0.49
1:C:1608:ALA:HA	1:C:1613:HIS:HD2	1.76	0.49
1:C:1740:GLN:HB3	1:C:1746:ARG:CD	2.43	0.49
1:C:1754:VAL:HG21	1:C:1771:TYR:CE2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1854:THR:OG1	1:C:1872:ARG:HB3	2.13	0.49
1:D:512:SER:HB3	1:D:518:ILE:HD11	1.94	0.49
1:D:552:TYR:HB2	1:D:712:THR:O	2.13	0.49
1:D:579:GLY:HA2	1:D:630:ASN:CB	2.41	0.49
1:D:1018:ARG:HH11	1:D:1019:ALA:H	1.60	0.49
1:D:1493:PHE:HA	1:D:1499:PHE:CE1	2.48	0.49
1:D:1661:SER:H	1:D:1664:ILE:HD12	1.78	0.49
1:D:1706:VAL:O	1:D:1710:LEU:HD23	2.13	0.49
1:B:608:TYR:CD2	1:B:609:HIS:HB2	2.47	0.49
1:B:750:GLU:N	1:B:750:GLU:OE1	2.46	0.49
1:B:1729:LYS:HA	1:B:1732:GLU:OE2	2.13	0.49
1:E:1539:ASP:O	1:E:1543:ARG:HG2	2.13	0.49
1:E:1653:ASN:CG	1:E:1880:HIS:HA	2.38	0.49
1:E:1707:TYR:HD2	1:E:1730:LEU:HD12	1.78	0.49
1:F:1960:ASP:OD2	1:F:1962:LYS:HE2	2.12	0.49
1:G:231:LEU:HD13	1:G:1262:LYS:HZ2	1.77	0.49
1:G:1370:THR:OG1	1:G:1371:LYS:N	2.45	0.49
1:H:628:THR:HB	1:H:631:HIS:ND1	2.27	0.49
1:H:981:THR:OG1	1:H:1027:ARG:NH2	2.43	0.49
1:A:290:LYS:O	1:A:292:ILE:HG23	2.12	0.48
1:A:663:GLN:N	1:A:666:ARG:O	2.40	0.48
1:A:908:LEU:HG	1:A:912:LEU:HD22	1.95	0.48
1:A:944:LEU:HD13	1:A:947:LEU:HD12	1.94	0.48
1:A:1671:GLY:HA2	1:A:1674:SER:HB3	1.94	0.48
1:A:1693:TYR:HA	1:A:1696:MET:HG3	1.95	0.48
1:C:651:GLU:N	1:C:651:GLU:OE2	2.46	0.48
1:C:1101:GLY:O	1:C:1105:GLN:HG3	2.13	0.48
1:C:1695:THR:O	1:C:1700:TYR:HE1	1.96	0.48
1:D:287:ARG:NE	1:D:333:SER:OG	2.42	0.48
1:D:1902:VAL:HG22	1:D:1953:PHE:CZ	2.48	0.48
1:B:89:PRO:HA	1:B:119:ASP:OD1	2.13	0.48
1:B:212:PRO:HD3	1:B:1446:LYS:NZ	2.27	0.48
1:B:552:TYR:CE2	1:B:620:LYS:HA	2.47	0.48
1:B:699:TRP:CD1	1:B:703:HIS:HD1	2.30	0.48
1:B:758:ARG:HA	1:B:761:LEU:HD12	1.93	0.48
1:B:932:TRP:CG	1:B:933:PHE:N	2.81	0.48
1:B:984:HIS:CE1	1:B:985:LYS:HG2	2.48	0.48
1:B:1135:ALA:O	1:B:1139:VAL:HG12	2.13	0.48
1:B:1164:LEU:HB2	1:B:1165:TYR:CE2	2.48	0.48
1:B:1167:PRO:O	1:B:1171:ILE:HD12	2.14	0.48
1:B:1832:TYR:O	1:B:1835:LYS:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1963:LEU:HD12	1:B:1967:HIS:CE1	2.48	0.48
1:E:928:LEU:HD21	1:E:989:LEU:HD21	1.94	0.48
1:E:1567:LYS:HA	1:E:1570:GLU:CD	2.38	0.48
1:E:1586:ALA:O	1:E:1589:TYR:N	2.46	0.48
1:F:120:TRP:CE3	1:F:838:TYR:HB3	2.48	0.48
1:F:390:TYR:CE1	1:F:603:PHE:HB3	2.44	0.48
1:F:1546:THR:OG1	1:F:1549:GLU:OE2	2.30	0.48
1:F:1590:GLN:HE22	1:F:1660:ILE:HD13	1.78	0.48
1:F:1786:LEU:HD21	1:F:1820:ILE:HG21	1.95	0.48
1:G:396:TRP:HB3	1:G:462:GLN:HE21	1.78	0.48
1:G:1510:LEU:O	1:G:1514:VAL:HG13	2.12	0.48
1:H:217:ARG:HH12	1:H:218:ARG:NH2	2.11	0.48
1:H:925:GLU:O	1:H:929:GLN:HG3	2.13	0.48
1:H:1023:GLN:O	1:H:1027:ARG:HG3	2.13	0.48
1:H:1058:ASN:ND2	1:H:1109:LEU:HB2	2.28	0.48
1:H:1258:LEU:HD12	1:H:1391:VAL:HG23	1.95	0.48
1:H:1449:GLU:CD	1:H:1449:GLU:H	2.20	0.48
1:H:1709:ASN:O	1:H:1712:PRO:HD2	2.13	0.48
1:H:1753:ARG:HH22	1:H:1821:GLN:CD	2.20	0.48
1:A:1296:GLU:O	1:A:1298:LYS:HD3	2.14	0.48
1:A:1604:ALA:HB1	1:A:1693:TYR:HE2	1.77	0.48
1:A:1724:ALA:HB2	1:B:1738:MET:SD	2.53	0.48
1:C:276:PRO:HD2	1:C:345:VAL:HG21	1.96	0.48
1:C:277:ILE:HG12	1:C:344:LYS:HG2	1.94	0.48
1:C:344:LYS:O	1:C:392:MET:N	2.46	0.48
1:C:556:HIS:O	1:C:615:PHE:N	2.46	0.48
1:C:1602:ASN:C	1:C:1603:MET:HE2	2.38	0.48
1:C:1701:GLU:H	1:C:1701:GLU:CD	2.18	0.48
1:C:1870:HIS:CD2	1:C:1901:PRO:HD3	2.47	0.48
1:D:220:GLU:CA	1:D:223:ARG:HH21	2.26	0.48
1:D:654:VAL:HA	1:D:678:VAL:HG13	1.95	0.48
1:D:1169:LEU:HD12	1:D:1170:SER:N	2.27	0.48
1:D:1396:LEU:O	1:D:1400:VAL:HG23	2.12	0.48
1:D:1494:GLU:HB2	1:D:1495:ILE:HD12	1.95	0.48
1:B:1024:VAL:HG22	1:B:1041:ARG:CZ	2.43	0.48
1:E:592:LYS:N	1:E:595:CYS:SG	2.86	0.48
1:E:666:ARG:HD2	1:E:725:ASP:CG	2.37	0.48
1:E:1121:LEU:HD13	1:E:1175:THR:HG22	1.95	0.48
1:F:50:VAL:HA	1:F:1104:ARG:CZ	2.43	0.48
1:F:832:LEU:O	1:F:836:VAL:HG23	2.13	0.48
1:F:1599:TRP:CD1	1:F:1602:ASN:HD22	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1701:GLU:OE1	1:F:1701:GLU:N	2.43	0.48
1:F:1963:LEU:HA	1:F:1966:HIS:ND1	2.27	0.48
1:G:280:ILE:HG12	1:G:297:TYR:HD1	1.78	0.48
1:G:632:HIS:HB2	1:G:660:PRO:HA	1.95	0.48
1:G:781:ASP:O	1:G:785:ARG:HG2	2.13	0.48
1:G:1574:ASP:HB2	1:G:1793:ARG:NH2	2.28	0.48
1:G:1727:HIS:O	1:G:1731:GLN:NE2	2.39	0.48
1:G:1929:MET:HA	1:G:1932:MET:HE2	1.94	0.48
1:H:556:HIS:HB3	1:H:614:GLU:OE1	2.13	0.48
1:H:1421:LEU:HD13	1:H:1461:ASP:HB2	1.95	0.48
1:H:1559:HIS:HA	1:H:1562:LEU:HD12	1.94	0.48
1:A:997:LEU:O	1:A:1000:PHE:HB3	2.14	0.48
1:A:1180:HIS:HE1	1:A:1182:PHE:HA	1.78	0.48
1:A:1740:GLN:HA	1:A:1745:GLU:HB2	1.95	0.48
1:A:1764:LEU:C	1:A:1767:GLN:HG2	2.38	0.48
1:C:590:PHE:CD1	1:C:620:LYS:HG2	2.49	0.48
1:C:836:VAL:O	1:C:940:LYS:NZ	2.31	0.48
1:C:1154:GLU:O	1:C:1158:LYS:HG2	2.13	0.48
1:C:1617:ALA:O	1:C:1621:VAL:HG23	2.12	0.48
1:C:1754:VAL:HG21	1:C:1771:TYR:CD2	2.48	0.48
1:C:1756:PHE:HD1	1:C:1761:PHE:CE1	2.31	0.48
1:D:1437:LEU:O	1:D:1440:GLN:NE2	2.46	0.48
1:B:139:THR:O	1:B:142:GLN:HG2	2.13	0.48
1:B:259:GLN:HE22	1:B:332:PRO:CA	2.26	0.48
1:B:785:ARG:HH22	1:B:788:ILE:HD13	1.78	0.48
1:B:1024:VAL:O	1:B:1041:ARG:NH2	2.46	0.48
1:B:1182:PHE:CD2	1:B:1294:ALA:HA	2.47	0.48
1:B:1530:LYS:HA	1:B:1533:LEU:HD13	1.94	0.48
1:B:1725:ALA:O	1:B:1729:LYS:HG3	2.13	0.48
1:B:1920:THR:HG21	1:B:1983:ASP:HB3	1.94	0.48
1:E:816:HIS:O	1:E:820:GLU:HG3	2.13	0.48
1:E:1574:ASP:OD2	1:E:1577:MET:HE2	2.13	0.48
1:E:1963:LEU:O	1:E:1967:HIS:ND1	2.25	0.48
1:F:908:LEU:HD11	1:F:912:LEU:HD22	1.94	0.48
1:F:974:SER:HA	1:F:977:LEU:HD12	1.94	0.48
1:F:1937:SER:HB3	1:F:1977:PHE:HE1	1.79	0.48
1:G:147:LYS:HA	1:G:1376:HIS:CE1	2.49	0.48
1:G:485:LEU:HD22	1:G:488:ARG:HH11	1.78	0.48
1:G:1902:VAL:HG11	1:G:1963:LEU:HD12	1.95	0.48
1:H:120:TRP:HZ3	1:H:839:ALA:HB2	1.78	0.48
1:H:537:ALA:O	1:H:538:ARG:NH1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1176:LEU:HB2	1:H:1287:LEU:HD21	1.94	0.48
1:H:1681:LEU:HA	1:H:1684:VAL:HG22	1.95	0.48
1:A:658:TRP:HD1	1:A:660:PRO:HG3	1.78	0.48
1:A:1727:HIS:O	1:A:1730:LEU:HB2	2.13	0.48
1:A:1873:LYS:HB2	1:A:1897:THR:OG1	2.14	0.48
1:A:1947:LEU:HD22	1:A:2010:LEU:HD12	1.93	0.48
1:D:156:GLN:HG2	1:D:1427:ALA:HB2	1.94	0.48
1:D:1582:MET:HE1	1:D:1602:ASN:HB2	1.93	0.48
1:D:1700:TYR:CE2	1:D:1736:LYS:HD2	2.48	0.48
1:B:85:LEU:HD11	1:B:947:LEU:HD13	1.95	0.48
1:B:85:LEU:CD1	1:B:947:LEU:HD13	2.44	0.48
1:B:663:GLN:OE1	1:B:666:ARG:NE	2.45	0.48
1:B:1010:ARG:O	1:B:1011:GLY:C	2.55	0.48
1:B:1014:PHE:O	1:B:1015:SER:C	2.57	0.48
1:B:1779:LEU:HD11	1:B:1822:ILE:HG22	1.95	0.48
1:E:1265:GLU:O	1:E:1269:LEU:HG	2.13	0.48
1:E:1449:GLU:H	1:E:1449:GLU:CD	2.20	0.48
1:E:1805:SER:HB3	1:E:1852:PHE:CE2	2.48	0.48
1:F:47:LEU:O	1:F:1104:ARG:NH2	2.44	0.48
1:F:944:LEU:HA	1:F:947:LEU:HD12	1.94	0.48
1:F:979:VAL:O	1:F:983:VAL:HG13	2.13	0.48
1:F:1761:PHE:HZ	1:F:1820:ILE:HD11	1.78	0.48
1:G:1180:HIS:H	1:G:1245:LEU:HB3	1.79	0.48
1:G:1531:THR:O	1:G:1534:THR:OG1	2.25	0.48
1:H:56:PHE:CG	1:H:1010:ARG:HB2	2.48	0.48
1:H:463:GLU:CD	1:H:490:ARG:HH12	2.21	0.48
1:H:1617:ALA:HB1	1:H:1694:PHE:CD2	2.49	0.48
1:H:1825:VAL:HG23	1:H:1852:PHE:HB2	1.96	0.48
1:A:325:ALA:HA	1:A:530:LYS:O	2.12	0.48
1:A:934:PHE:O	1:A:937:LEU:HB2	2.13	0.48
1:C:1013:VAL:HG13	1:C:1016:LEU:HD12	1.95	0.48
1:C:1431:LEU:HG	1:C:1435:HIS:HE1	1.76	0.48
1:C:1437:LEU:HD22	1:C:1480:HIS:HB3	1.96	0.48
1:C:1630:TYR:CE1	1:C:1634:LEU:HD21	2.48	0.48
1:C:1950:ALA:HB2	1:C:1974:PHE:CZ	2.48	0.48
1:C:2024:GLN:OE1	1:E:1556:PHE:HB3	2.12	0.48
1:D:234:LEU:HB2	1:D:1384:LEU:HD13	1.96	0.48
1:D:254:ARG:H	1:D:254:ARG:HD3	1.79	0.48
1:D:290:LYS:NZ	1:D:292:ILE:HG22	2.28	0.48
1:D:305:MET:SD	1:D:308:LEU:HD12	2.53	0.48
1:D:956:ARG:NH1	1:D:1010:ARG:HH12	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1028:LEU:HD11	1:D:1038:LEU:HD21	1.95	0.48
1:D:1097:PHE:CD2	1:D:1272:TRP:HD1	2.31	0.48
1:D:1168:LEU:HA	1:D:1171:ILE:HG12	1.94	0.48
1:D:1749:GLY:HA2	1:D:1775:SER:HA	1.94	0.48
1:D:1751:TYR:CD2	1:D:1850:PHE:HE1	2.31	0.48
1:D:1756:PHE:HB2	1:D:1764:LEU:O	2.13	0.48
1:B:140:ASP:O	1:B:143:ARG:HG2	2.14	0.48
1:B:299:ASP:OD1	1:B:301:ASN:ND2	2.46	0.48
1:B:934:PHE:O	1:B:937:LEU:HB2	2.14	0.48
1:B:1486:TYR:OH	1:B:1536:ALA:HA	2.14	0.48
1:B:1641:PRO:HB3	1:B:1646:SER:HB2	1.96	0.48
1:B:1749:GLY:HA2	1:B:1775:SER:N	2.29	0.48
1:E:284:TYR:CE2	1:E:291:LYS:HG2	2.48	0.48
1:E:726:LYS:O	1:E:730:LEU:HD13	2.14	0.48
1:E:977:LEU:O	1:E:1027:ARG:NH1	2.38	0.48
1:E:1720:TYR:HA	1:E:1723:LEU:HD23	1.94	0.48
1:E:1738:MET:HA	1:H:1720:TYR:OH	2.13	0.48
1:E:1865:GLU:OE1	1:E:1867:PRO:HD2	2.14	0.48
1:F:466:ARG:HD3	1:F:616:TYR:HD1	1.77	0.48
1:F:788:ILE:HD11	1:F:844:GLY:H	1.78	0.48
1:F:936:GLN:HA	1:F:939:VAL:HG22	1.95	0.48
1:F:1401:GLN:HA	1:F:1404:MET:SD	2.54	0.48
1:F:1886:LYS:HZ2	1:F:1888:ARG:HG2	1.79	0.48
1:G:278:PHE:HB2	1:G:343:GLU:HB2	1.94	0.48
1:G:788:ILE:HD12	1:G:842:LEU:HG	1.95	0.48
1:G:1018:ARG:HG2	1:G:1022:LYS:HZ1	1.77	0.48
1:G:1167:PRO:O	1:G:1171:ILE:HD12	2.14	0.48
1:G:1180:HIS:N	1:G:1245:LEU:HB3	2.28	0.48
1:G:1476:THR:O	1:G:1480:HIS:ND1	2.26	0.48
1:G:1936:GLY:HA2	1:G:1940:PRO:HB3	1.96	0.48
1:H:568:ARG:HE	1:H:610:ASN:N	2.11	0.48
1:H:1020:HIS:O	1:H:1024:VAL:HG12	2.13	0.48
1:H:1116:GLU:HA	1:H:1119:LEU:HG	1.95	0.48
1:H:1417:LEU:HD22	1:H:1458:LEU:HB3	1.95	0.48
1:A:116:TYR:HH	1:A:777:HIS:HE2	1.62	0.48
1:A:724:LEU:HD21	1:A:772:LEU:HD23	1.96	0.48
1:A:1493:PHE:HZ	1:A:1545:SER:HB3	1.78	0.48
1:C:213:GLU:HA	1:C:216:ASP:OD2	2.13	0.48
1:C:393:PRO:HD3	1:C:466:ARG:HH21	1.78	0.48
1:C:983:VAL:HA	1:C:986:ASP:O	2.13	0.48
1:C:1038:LEU:HA	1:C:1041:ARG:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1093:VAL:HG22	1:C:1097:PHE:CZ	2.49	0.48
1:C:1461:ASP:OD2	1:C:1465:ARG:NH2	2.36	0.48
1:C:1486:TYR:CE2	1:C:1535:TYR:HB3	2.48	0.48
1:C:1503:LYS:HZ3	1:C:1554:LEU:HB2	1.77	0.48
1:C:1707:TYR:HD2	1:C:1730:LEU:HD13	1.77	0.48
1:D:587:PRO:HB3	1:D:600:ARG:NH1	2.28	0.48
1:D:925:GLU:O	1:D:928:LEU:HB2	2.14	0.48
1:D:978:GLU:O	1:D:979:VAL:C	2.56	0.48
1:D:1017:VAL:O	1:D:1020:HIS:HB3	2.14	0.48
1:D:1393:LEU:O	1:D:1396:LEU:HB2	2.14	0.48
1:D:1733:ALA:HA	1:D:1736:LYS:HZ3	1.79	0.48
1:D:1989:LYS:N	1:D:2000:HIS:HE1	2.11	0.48
1:D:2014:LEU:O	1:D:2018:LEU:N	2.46	0.48
1:B:585:ALA:O	1:B:600:ARG:NE	2.46	0.48
1:B:663:GLN:HB2	1:B:668:ARG:CD	2.38	0.48
1:B:979:VAL:O	1:B:983:VAL:HG13	2.12	0.48
1:B:1760:HIS:CE1	1:B:1798:VAL:HG21	2.47	0.48
1:E:204:PRO:HA	1:E:207:LEU:HG	1.96	0.48
1:E:507:PRO:HB2	1:E:510:CYS:HB2	1.96	0.48
1:E:533:LEU:HD12	1:E:550:LEU:HD11	1.95	0.48
1:E:687:VAL:HG13	1:E:688:LEU:HG	1.95	0.48
1:E:1059:LEU:HB3	1:E:1106:GLN:O	2.14	0.48
1:E:1592:SER:CB	1:E:1595:LEU:HD23	2.44	0.48
1:E:1698:GLY:O	1:E:1746:ARG:NH2	2.46	0.48
1:F:628:THR:HG22	1:F:629:GLU:N	2.29	0.48
1:F:1771:TYR:CD1	1:F:1888:ARG:HB3	2.48	0.48
1:F:1800:GLU:HB2	1:F:1817:LYS:HG3	1.95	0.48
1:F:1882:PHE:CZ	1:F:1889:ILE:HG22	2.48	0.48
1:G:259:GLN:NE2	1:G:445:SER:OG	2.40	0.48
1:G:548:ARG:HG3	1:G:716:SER:HB3	1.94	0.48
1:G:1613:HIS:CE1	1:G:1696:MET:HE2	2.48	0.48
1:G:1919:ALA:HB1	1:G:1930:LEU:HA	1.95	0.48
1:H:63:ARG:HD2	1:H:1063:PRO:CD	2.43	0.48
1:H:268:LEU:HD21	1:H:270:PHE:CZ	2.49	0.48
1:H:723:TYR:O	1:H:726:LYS:HG2	2.13	0.48
1:H:1045:THR:O	1:H:1048:LEU:HG	2.14	0.48
1:H:1292:LEU:HD11	1:H:1423:SER:HA	1.94	0.48
1:H:1686:LEU:HG	1:H:1689:GLN:HE21	1.78	0.48
1:H:1787:GLU:HB2	1:H:1801:ILE:HD11	1.96	0.48
1:H:2020:GLN:NE2	1:H:2022:LEU:HD11	2.28	0.48
1:A:1963:LEU:O	1:A:1967:HIS:ND1	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:70:GLY:C	1:C:72:LEU:H	2.20	0.48
1:C:577:MET:HE1	1:C:634:LEU:HB3	1.95	0.48
1:C:840:PHE:CZ	1:C:842:LEU:HB2	2.48	0.48
1:C:1112:LEU:O	1:C:1115:THR:HB	2.13	0.48
1:C:1425:GLY:HA2	1:C:1468:ARG:NH2	2.29	0.48
1:C:1595:LEU:HG	1:C:1599:TRP:CD1	2.49	0.48
1:C:1699:LEU:O	1:C:1703:VAL:HG23	2.14	0.48
1:D:654:VAL:O	1:D:678:VAL:HG22	2.14	0.48
1:D:840:PHE:CZ	1:D:842:LEU:HB2	2.49	0.48
1:D:916:TRP:C	1:D:924:ARG:HH12	2.20	0.48
1:D:1393:LEU:HD11	1:D:1436:GLY:HA2	1.96	0.48
1:B:238:PRO:HB3	1:B:1140:HIS:HD2	1.77	0.48
1:B:539:GLU:CD	1:B:539:GLU:H	2.21	0.48
1:B:575:GLN:OE1	1:B:576:TYR:N	2.46	0.48
1:B:806:GLU:O	1:B:810:HIS:ND1	2.46	0.48
1:B:832:LEU:O	1:B:835:TYR:HB3	2.14	0.48
1:B:982:ARG:NH1	1:B:986:ASP:H	2.10	0.48
1:B:1549:GLU:H	1:B:1549:GLU:CD	2.19	0.48
1:B:1578:LEU:HG	1:B:1582:MET:CE	2.44	0.48
1:E:232:LEU:HD22	1:E:1140:HIS:HE1	1.77	0.48
1:E:397:THR:OG1	1:E:458:ASN:O	2.19	0.48
1:F:284:TYR:HD1	1:F:291:LYS:HA	1.79	0.48
1:F:553:VAL:HG11	1:F:635:PHE:HZ	1.78	0.48
1:G:572:VAL:O	1:G:604:THR:HG23	2.14	0.48
1:G:1510:LEU:HD22	1:G:1558:LEU:HD13	1.95	0.48
1:H:106:ASP:O	1:H:110:ARG:HB2	2.13	0.48
1:H:265:CYS:O	1:H:323:ARG:HD3	2.13	0.48
1:H:1267:ALA:HA	1:H:1270:GLN:NE2	2.29	0.48
1:H:1437:LEU:O	1:H:1440:GLN:NE2	2.46	0.48
1:H:1510:LEU:HD12	1:H:1511:SER:N	2.29	0.48
1:H:1526:ARG:O	1:H:1529:LEU:HG	2.13	0.48
1:A:468:SER:O	1:A:472:LEU:HB2	2.14	0.48
1:A:812:VAL:O	1:A:815:VAL:HG22	2.14	0.48
1:A:943:ALA:O	1:A:947:LEU:HG	2.14	0.48
1:A:1004:LEU:O	1:A:1007:LEU:N	2.43	0.48
1:C:260:ARG:HH12	1:C:505:GLU:HA	1.79	0.48
1:C:758:ARG:HA	1:C:761:LEU:HD12	1.96	0.48
1:C:925:GLU:HA	1:C:928:LEU:HD12	1.95	0.48
1:C:1159:ALA:O	1:C:1163:GLU:HG3	2.14	0.48
1:C:1879:ASP:OD2	1:C:1890:ARG:HB3	2.14	0.48
1:D:1094:THR:HA	1:D:1097:PHE:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1266:PRO:O	1:D:1269:LEU:HB2	2.13	0.48
1:B:106:ASP:OD1	1:B:107:ALA:N	2.47	0.48
1:B:541:TYR:CD2	1:B:773:VAL:HG21	2.48	0.48
1:B:573:ARG:HD3	1:B:638:TYR:HE1	1.77	0.48
1:B:654:VAL:HA	1:B:678:VAL:HG13	1.96	0.48
1:B:835:TYR:O	1:B:839:ALA:N	2.34	0.48
1:B:980:ILE:O	1:B:983:VAL:HG22	2.13	0.48
1:B:1158:LYS:O	1:B:1161:VAL:HB	2.14	0.48
1:B:1437:LEU:HA	1:B:1440:GLN:HG3	1.95	0.48
1:B:1512:SER:O	1:B:1516:THR:OG1	2.19	0.48
1:B:1816:GLN:NE2	1:B:1817:LYS:HB2	2.28	0.48
1:E:932:TRP:CG	1:E:933:PHE:N	2.82	0.48
1:E:1562:LEU:O	1:E:1566:VAL:HG23	2.14	0.48
1:E:1753:ARG:NH2	1:E:1823:THR:OG1	2.46	0.48
1:E:1852:PHE:CE2	1:E:1854:THR:HG22	2.48	0.48
1:F:781:ASP:O	1:F:785:ARG:HG2	2.13	0.48
1:F:924:ARG:O	1:F:928:LEU:HG	2.13	0.48
1:F:1099:LEU:HD13	1:F:1103:PHE:HD2	1.78	0.48
1:F:1733:ALA:HA	1:F:1736:LYS:HZ1	1.79	0.48
1:G:107:ALA:HB3	1:G:732:HIS:NE2	2.29	0.48
1:G:120:TRP:CD2	1:G:838:TYR:HB3	2.49	0.48
1:G:278:PHE:HD1	1:G:391:ARG:HE	1.61	0.48
1:G:466:ARG:HD3	1:G:616:TYR:CD1	2.46	0.48
1:G:608:TYR:CE2	1:G:609:HIS:HB2	2.49	0.48
1:G:956:ARG:NH1	1:G:1007:LEU:O	2.47	0.48
1:G:1456:THR:HG21	1:G:1675:GLY:HA2	1.96	0.48
1:G:1503:LYS:NZ	1:G:1554:LEU:HB2	2.28	0.48
1:G:1653:ASN:OD1	1:G:1881:ALA:N	2.36	0.48
1:G:1909:MET:HA	1:G:1912:LYS:HG2	1.96	0.48
1:H:1289:TYR:O	1:H:1292:LEU:HB3	2.13	0.48
1:H:1413:LEU:HD21	1:H:1443:LEU:HD12	1.95	0.48
1:A:53:PRO:HG3	1:A:1018:ARG:NE	2.25	0.48
1:A:951:ARG:C	1:A:959:ARG:HH12	2.22	0.48
1:A:1600:LEU:HD13	1:A:1623:ALA:HB2	1.96	0.48
1:A:1731:GLN:CD	1:B:1731:GLN:CD	2.81	0.48
1:A:1779:LEU:HD11	1:A:1822:ILE:HG22	1.96	0.48
1:A:1856:PHE:HB3	1:A:1872:ARG:NH2	2.29	0.48
1:C:349:GLY:H	1:C:608:TYR:HE2	1.62	0.48
1:C:721:ASP:HB3	1:C:724:LEU:HD22	1.94	0.48
1:C:772:LEU:HA	1:C:775:PHE:CZ	2.48	0.48
1:C:1036:ALA:O	1:C:1039:THR:HB	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1393:LEU:O	1:C:1396:LEU:HB2	2.14	0.48
1:C:1403:VAL:HG11	1:C:1412:VAL:HG11	1.96	0.48
1:C:1437:LEU:O	1:C:1440:GLN:NE2	2.46	0.48
1:C:1515:GLY:HA3	1:C:1602:ASN:OD1	2.14	0.48
1:C:1539:ASP:OD2	1:C:1542:LEU:HD12	2.14	0.48
1:D:1486:TYR:OH	1:D:1539:ASP:HB2	2.14	0.48
1:D:1606:LYS:HD3	1:D:1609:GLU:OE2	2.13	0.48
1:D:1934:LEU:HD21	1:D:1985:LEU:HG	1.95	0.48
1:B:1028:LEU:HD12	1:B:1029:GLN:N	2.28	0.48
1:B:1277:THR:HG1	1:B:1280:GLN:CD	2.20	0.48
1:B:1604:ALA:HB1	1:B:1693:TYR:CE2	2.49	0.48
1:E:106:ASP:O	1:E:110:ARG:HB2	2.14	0.48
1:E:336:ILE:HG21	1:E:446:PHE:CZ	2.48	0.48
1:E:925:GLU:O	1:E:929:GLN:HG3	2.14	0.48
1:E:1097:PHE:CZ	1:E:1268:LEU:HD12	2.45	0.48
1:E:1463:CYS:SG	1:E:1506:VAL:HG23	2.54	0.48
1:E:1526:ARG:HG3	1:E:1559:HIS:CE1	2.48	0.48
1:F:56:PHE:HE1	1:F:1059:LEU:HB2	1.78	0.48
1:F:558:LEU:HD21	1:F:560:PHE:CZ	2.49	0.48
1:G:216:ASP:OD1	1:G:217:ARG:N	2.47	0.48
1:G:551:LEU:HD11	1:G:623:LEU:HB2	1.96	0.48
1:G:558:LEU:HD21	1:G:560:PHE:CZ	2.49	0.48
1:G:613:PRO:HB2	1:G:615:PHE:CZ	2.49	0.48
1:G:677:SER:HB2	1:G:697:MET:HE3	1.95	0.48
1:G:1253:LEU:O	1:G:1257:VAL:HG23	2.14	0.48
1:G:1764:LEU:HA	1:G:1767:GLN:OE1	2.13	0.48
1:H:556:HIS:ND1	1:H:615:PHE:O	2.43	0.48
1:H:630:ASN:O	1:H:632:HIS:ND1	2.42	0.48
1:H:919:SER:O	1:H:924:ARG:NE	2.46	0.48
1:H:946:LEU:HD23	1:H:951:ARG:HD3	1.96	0.48
1:H:1268:LEU:HD13	1:H:1271:ARG:HG3	1.96	0.48
1:H:1425:GLY:HA2	1:H:1465:ARG:NE	2.28	0.48
1:H:1486:TYR:OH	1:H:1536:ALA:HA	2.14	0.48
1:H:1504:MET:O	1:H:1508:MET:HG2	2.14	0.48
1:H:1572:GLN:NE2	1:H:1573:GLU:OE1	2.47	0.48
1:A:230:ALA:O	1:A:233:THR:OG1	2.32	0.48
1:A:581:ASP:CG	1:A:583:SER:HG	2.22	0.48
1:A:1493:PHE:CZ	1:A:1547:PHE:HB2	2.49	0.48
1:C:964:PHE:HA	1:C:967:ASP:OD2	2.14	0.48
1:C:1714:LEU:HD23	1:C:1717:HIS:HD2	1.79	0.48
1:D:577:MET:HE1	1:D:634:LEU:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1394:ASP:O	1:B:1398:ILE:HG12	2.14	0.48
1:E:568:ARG:HE	1:E:610:ASN:N	2.12	0.48
1:E:1574:ASP:OD1	1:E:1577:MET:HE2	2.14	0.48
1:E:1908:ASP:O	1:E:1912:LYS:HG3	2.13	0.48
1:E:1934:LEU:HD23	1:E:2003:LEU:HD13	1.96	0.48
1:F:286:VAL:C	1:F:289:LYS:H	2.22	0.48
1:F:816:HIS:CD2	1:F:829:CYS:HB2	2.49	0.48
1:F:1756:PHE:HB3	1:F:1761:PHE:CD2	2.48	0.48
1:G:283:LEU:N	1:G:293:SER:OG	2.46	0.48
1:H:1396:LEU:O	1:H:1400:VAL:HG23	2.14	0.48
1:H:1587:ARG:HH21	1:H:1596:ARG:NH1	2.12	0.48
1:A:124:HIS:HA	1:A:249:ARG:HH22	1.79	0.47
1:A:928:LEU:HB3	1:A:989:LEU:HD21	1.94	0.47
1:A:1100:SER:O	1:A:1104:ARG:HG2	2.14	0.47
1:A:1536:ALA:O	1:A:1543:ARG:NH2	2.47	0.47
1:A:1787:GLU:HB2	1:A:1801:ILE:HD11	1.95	0.47
1:A:1832:TYR:O	1:A:1835:LYS:HG3	2.14	0.47
1:C:269:LYS:HB2	1:C:495:GLN:NE2	2.29	0.47
1:C:654:VAL:HA	1:C:678:VAL:HG13	1.96	0.47
1:C:949:GLY:HA3	1:C:951:ARG:HE	1.78	0.47
1:C:1018:ARG:HG2	1:C:1022:LYS:HZ2	1.79	0.47
1:C:1683:LEU:O	1:C:1687:LEU:HG	2.14	0.47
1:C:1761:PHE:HD1	1:C:1764:LEU:HD23	1.79	0.47
1:D:559:ASN:ND2	1:D:562:SER:OG	2.46	0.47
1:D:1055:VAL:HA	1:D:1058:ASN:ND2	2.28	0.47
1:D:1112:LEU:O	1:D:1115:THR:HB	2.14	0.47
1:B:474:LYS:NZ	1:B:478:ASP:HB2	2.28	0.47
1:B:558:LEU:HD21	1:B:560:PHE:CZ	2.49	0.47
1:B:1004:LEU:O	1:B:1008:VAL:HG12	2.14	0.47
1:B:1708:LYS:HD2	1:B:1708:LYS:HA	1.70	0.47
1:B:1870:HIS:HD1	1:B:1900:THR:HA	1.79	0.47
1:B:1873:LYS:HB2	1:B:1897:THR:OG1	2.13	0.47
1:E:723:TYR:O	1:E:726:LYS:HG2	2.14	0.47
1:E:1589:TYR:HD2	1:E:1599:TRP:CZ3	2.32	0.47
1:F:53:PRO:HA	1:F:1108:PHE:CZ	2.48	0.47
1:F:1577:MET:HB3	1:F:1888:ARG:HH22	1.79	0.47
1:G:47:LEU:HD11	1:G:1115:THR:HA	1.96	0.47
1:G:577:MET:SD	1:G:582:PRO:HA	2.53	0.47
1:H:200:ASP:N	1:H:1527:ARG:HD3	2.29	0.47
1:H:259:GLN:HE22	1:H:332:PRO:CA	2.27	0.47
1:H:544:HIS:HE1	1:H:548:ARG:NH2	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:961:PRO:HB3	1:H:963:ARG:NH2	2.29	0.47
1:H:1042:MET:HE1	1:H:1135:ALA:HA	1.95	0.47
1:H:1989:LYS:HE2	1:H:2000:HIS:CE1	2.49	0.47
1:A:107:ALA:HB3	1:A:732:HIS:CD2	2.49	0.47
1:A:247:CYS:HG	1:A:828:HIS:CD2	2.31	0.47
1:A:681:PRO:HA	1:A:697:MET:CE	2.44	0.47
1:A:1025:ALA:O	1:A:1028:LEU:HG	2.14	0.47
1:A:1604:ALA:HA	1:A:1616:ALA:HB1	1.95	0.47
1:A:1724:ALA:HB2	1:B:1738:MET:CE	2.44	0.47
1:A:1729:LYS:HA	1:A:1732:GLU:OE2	2.13	0.47
1:C:674:LEU:HB2	1:C:707:PHE:HD2	1.79	0.47
1:C:979:VAL:O	1:C:983:VAL:HG13	2.14	0.47
1:C:1041:ARG:O	1:C:1044:PHE:HB3	2.14	0.47
1:C:1487:LEU:HD12	1:C:1491:GLN:HE22	1.78	0.47
1:C:1906:ILE:HG12	1:C:1970:LEU:HD22	1.95	0.47
1:C:1937:SER:HB3	1:C:1977:PHE:CE1	2.49	0.47
1:D:932:TRP:CG	1:D:933:PHE:N	2.82	0.47
1:D:964:PHE:O	1:D:968:ILE:HG12	2.14	0.47
1:D:994:ASN:HA	1:D:997:LEU:HB3	1.96	0.47
1:D:1481:ALA:O	1:D:1484:SER:OG	2.29	0.47
1:D:1765:ASP:OD2	1:D:1766:GLU:HG2	2.14	0.47
1:B:723:TYR:HA	1:B:726:LYS:HD2	1.95	0.47
1:B:925:GLU:O	1:B:928:LEU:HB2	2.14	0.47
1:B:1132:HIS:O	1:B:1133:LYS:C	2.57	0.47
1:B:1428:GLN:OE1	1:B:1433:LEU:HD21	2.13	0.47
1:B:1826:GLU:HG2	1:B:1851:LEU:O	2.14	0.47
1:E:461:LYS:HG3	1:E:492:VAL:HG21	1.96	0.47
1:E:755:GLN:NE2	1:G:1026:THR:HA	2.29	0.47
1:E:836:VAL:HA	1:E:840:PHE:HB2	1.96	0.47
1:E:1473:ARG:HD2	1:E:1473:ARG:N	2.29	0.47
1:E:1884:TYR:CD2	1:E:1886:LYS:HG2	2.50	0.47
1:F:1618:GLN:HE21	1:F:1694:PHE:HZ	1.60	0.47
1:F:1857:THR:OG1	1:F:1861:ARG:N	2.47	0.47
1:F:1931:GLN:HB3	1:F:1999:TYR:HE2	1.79	0.47
1:G:1278:LEU:HD13	1:G:1281:LEU:HD12	1.94	0.47
1:G:1728:GLY:HA2	1:G:1731:GLN:HG2	1.96	0.47
1:G:1963:LEU:HA	1:G:1966:HIS:ND1	2.29	0.47
1:G:1963:LEU:HD13	1:G:1966:HIS:ND1	2.29	0.47
1:H:253:PRO:HG3	1:H:834:ALA:HB1	1.95	0.47
1:H:1653:ASN:CG	1:H:1880:HIS:HA	2.39	0.47
1:H:1784:HIS:O	1:H:1785:ARG:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:654:VAL:HA	1:A:678:VAL:HG13	1.97	0.47
1:A:1038:LEU:HA	1:A:1041:ARG:HG3	1.96	0.47
1:A:1870:HIS:HA	1:A:1904:VAL:HG21	1.95	0.47
1:C:929:GLN:HE22	1:C:989:LEU:HD21	1.79	0.47
1:C:945:HIS:CE1	1:C:960:PHE:HE1	2.31	0.47
1:C:978:GLU:O	1:C:979:VAL:C	2.56	0.47
1:C:1576:GLU:HB3	1:C:1888:ARG:HD3	1.96	0.47
1:D:297:TYR:HB3	1:D:593:SER:N	2.29	0.47
1:D:321:LEU:HD23	1:D:321:LEU:O	2.14	0.47
1:D:661:LEU:N	1:D:668:ARG:HH21	2.12	0.47
1:D:1045:THR:OG1	1:D:1046:ARG:N	2.47	0.47
1:D:1630:TYR:OH	1:D:1672:PHE:O	2.27	0.47
1:B:1254:LEU:O	1:B:1258:LEU:HD23	2.14	0.47
1:B:1284:LEU:HD22	1:B:1285:LEU:HD22	1.95	0.47
1:E:85:LEU:HD11	1:E:947:LEU:HB3	1.96	0.47
1:E:232:LEU:HD22	1:E:1140:HIS:CE1	2.49	0.47
1:E:1587:ARG:HH21	1:E:1590:GLN:CB	2.28	0.47
1:E:1758:GLY:N	1:E:1765:ASP:OD1	2.29	0.47
1:E:1982:GLU:HB3	1:E:1986:ARG:NH2	2.26	0.47
1:F:269:LYS:HB2	1:F:495:GLN:HB2	1.96	0.47
1:F:982:ARG:NH2	1:F:985:LYS:HB2	2.30	0.47
1:F:1026:THR:HG23	1:H:755:GLN:HE21	1.80	0.47
1:G:71:PRO:HB2	1:G:1157:VAL:HG21	1.97	0.47
1:G:1128:ALA:HB1	1:G:1131:LEU:HB2	1.96	0.47
1:G:1711:ILE:HG23	1:G:1723:LEU:HD11	1.96	0.47
1:G:1884:TYR:CE1	1:G:1885:ILE:HG12	2.49	0.47
1:H:1473:ARG:HG3	1:H:1524:HIS:CE1	2.49	0.47
1:A:89:PRO:HA	1:A:119:ASP:OD1	2.15	0.47
1:A:123:VAL:HG13	1:A:940:LYS:HE3	1.95	0.47
1:A:125:ARG:NH2	1:A:1003:ASP:HA	2.29	0.47
1:A:728:PHE:CZ	1:A:775:PHE:HD1	2.32	0.47
1:A:902:ILE:O	1:A:905:SER:OG	2.33	0.47
1:A:1167:PRO:O	1:A:1171:ILE:HD12	2.15	0.47
1:A:1830:ASP:N	1:A:1833:GLU:OE2	2.41	0.47
1:C:559:ASN:ND2	1:C:562:SER:OG	2.47	0.47
1:C:988:GLU:H	1:C:988:GLU:CD	2.16	0.47
1:C:1013:VAL:O	1:C:1017:VAL:HG23	2.14	0.47
1:C:1024:VAL:O	1:C:1028:LEU:HG	2.15	0.47
1:C:1435:HIS:O	1:C:1439:THR:OG1	2.22	0.47
1:C:1522:GLU:CD	1:C:1526:ARG:HE	2.22	0.47
1:C:1522:GLU:CD	1:C:1566:VAL:HG21	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:577:MET:HB2	1:D:632:HIS:CE1	2.50	0.47
1:D:627:VAL:HG12	1:D:662:LEU:HB2	1.95	0.47
1:D:915:GLN:HE22	1:D:916:TRP:CD1	2.32	0.47
1:D:1013:VAL:O	1:D:1017:VAL:HG23	2.14	0.47
1:D:1182:PHE:CD1	1:D:1294:ALA:HA	2.49	0.47
1:D:1281:LEU:O	1:D:1284:LEU:HB3	2.14	0.47
1:D:1703:VAL:HA	1:D:1706:VAL:HG12	1.97	0.47
1:B:782:LYS:O	1:B:786:LEU:HG	2.15	0.47
1:B:1272:TRP:O	1:B:1276:LEU:CB	2.58	0.47
1:B:1296:GLU:O	1:B:1298:LYS:HD3	2.14	0.47
1:E:1266:PRO:HA	1:E:1269:LEU:HD12	1.96	0.47
1:E:1270:GLN:OE1	1:E:1398:ILE:HG23	2.14	0.47
1:E:1587:ARG:CZ	1:E:1596:ARG:HH12	2.28	0.47
1:E:1593:PRO:HB2	1:E:1678:PHE:CZ	2.49	0.47
1:E:1603:MET:HB3	1:E:1607:HIS:CE1	2.50	0.47
1:E:1731:GLN:OE1	1:H:1727:HIS:HB3	2.14	0.47
1:E:1866:LEU:HA	1:E:1869:GLN:CB	2.45	0.47
1:F:133:ALA:HB1	1:F:246:ARG:HA	1.96	0.47
1:F:228:PRO:O	1:F:1262:LYS:NZ	2.39	0.47
1:F:400:HIS:NE2	1:F:402:ALA:HB3	2.29	0.47
1:F:1644:CYS:HB2	1:F:1647:PHE:HB2	1.96	0.47
1:G:222:LEU:HG	1:G:1435:HIS:NE2	2.30	0.47
1:G:513:PRO:HG3	1:G:531:GLU:O	2.15	0.47
1:G:832:LEU:O	1:G:836:VAL:HG23	2.14	0.47
1:G:907:LEU:HB3	1:G:909:HIS:CD2	2.50	0.47
1:G:1451:LEU:HB3	1:G:1459:CYS:HB3	1.97	0.47
1:G:1553:ASP:OD1	1:G:1554:LEU:N	2.48	0.47
1:G:1879:ASP:OD2	1:G:1890:ARG:HB3	2.14	0.47
1:H:231:LEU:HB2	1:H:1262:LYS:NZ	2.29	0.47
1:H:932:TRP:CG	1:H:933:PHE:N	2.82	0.47
1:A:56:PHE:HE2	1:A:1010:ARG:HH21	1.63	0.47
1:A:95:THR:OG1	1:A:517:HIS:HB2	2.15	0.47
1:A:541:TYR:CD2	1:A:773:VAL:HG21	2.49	0.47
1:A:639:HIS:HB3	1:A:652:THR:OG1	2.15	0.47
1:A:1501:ARG:NH2	1:A:1504:MET:HE1	2.27	0.47
1:A:1767:GLN:HB3	1:A:1769:PHE:CE1	2.50	0.47
1:A:1817:LYS:HG2	1:A:1819:TYR:CE1	2.49	0.47
1:C:697:MET:O	1:C:699:TRP:NE1	2.47	0.47
1:C:1019:ALA:O	1:C:1020:HIS:C	2.55	0.47
1:C:1727:HIS:O	1:C:1731:GLN:NE2	2.30	0.47
1:C:2009:ARG:NH1	1:C:2013:ALA:HB2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:213:GLU:HA	1:D:216:ASP:OD2	2.14	0.47
1:D:1002:SER:O	1:D:1005:LEU:HB2	2.15	0.47
1:D:1038:LEU:HD23	1:D:1041:ARG:HB2	1.97	0.47
1:B:113:VAL:O	1:B:117:ILE:HG12	2.13	0.47
1:B:563:ARG:HD2	1:B:698:ARG:HH22	1.80	0.47
1:B:1139:VAL:HG23	1:B:1142:LEU:HD23	1.96	0.47
1:B:1701:GLU:OE1	1:B:1701:GLU:N	2.40	0.47
1:B:1750:THR:HB	1:B:1824:TYR:CE1	2.46	0.47
1:B:1940:PRO:HG3	1:B:1946:PRO:HD2	1.96	0.47
1:E:1054:TYR:CE2	1:E:1109:LEU:HB3	2.49	0.47
1:E:1731:GLN:NE2	1:H:1731:GLN:NE2	2.62	0.47
1:E:1848:ARG:HH12	1:E:1880:HIS:C	2.22	0.47
1:F:1270:GLN:OE1	1:F:1398:ILE:HG23	2.13	0.47
1:G:566:SER:O	1:G:639:HIS:NE2	2.48	0.47
1:G:677:SER:HB2	1:G:697:MET:CE	2.44	0.47
1:G:1711:ILE:HG23	1:G:1723:LEU:HD21	1.96	0.47
1:G:1866:LEU:HA	1:G:1869:GLN:HG2	1.95	0.47
1:H:55:ASP:HB2	1:H:58:ASP:HB3	1.96	0.47
1:H:94:THR:HG22	1:H:518:ILE:HD13	1.95	0.47
1:H:266:LEU:HB3	1:H:497:LYS:NZ	2.29	0.47
1:H:277:ILE:HG12	1:H:344:LYS:HG2	1.97	0.47
1:H:514:GLU:HA	1:H:590:PHE:CE2	2.49	0.47
1:H:726:LYS:O	1:H:730:LEU:HD13	2.13	0.47
1:H:935:PHE:HA	1:H:938:MET:SD	2.54	0.47
1:H:1858:PRO:HD3	1:H:1868:GLU:O	2.14	0.47
1:A:394:PHE:N	1:A:462:GLN:OE1	2.47	0.47
1:A:1500:ALA:HA	1:A:1503:LYS:HG2	1.97	0.47
1:A:1733:ALA:HA	1:A:1736:LYS:HZ2	1.78	0.47
1:A:1877:SER:OG	1:A:1893:HIS:HB3	2.15	0.47
1:C:72:LEU:HA	1:C:75:LEU:HD12	1.95	0.47
1:C:323:ARG:HD3	1:C:527:ARG:NH1	2.29	0.47
1:C:914:LEU:O	1:C:917:VAL:HB	2.13	0.47
1:C:1680:GLU:O	1:C:1683:LEU:HB3	2.14	0.47
1:C:1707:TYR:O	1:C:1711:ILE:HG13	2.14	0.47
1:C:1738:MET:SD	1:D:1724:ALA:HB2	2.55	0.47
1:C:1910:GLN:O	1:C:1913:THR:HB	2.14	0.47
1:D:144:GLU:OE1	1:D:145:ARG:HD3	2.14	0.47
1:D:1015:SER:HA	1:D:1018:ARG:CD	2.45	0.47
1:D:1680:GLU:O	1:D:1683:LEU:HB3	2.15	0.47
1:D:1720:TYR:HA	1:D:1723:LEU:HB2	1.97	0.47
1:D:1835:LYS:HZ3	1:H:1663:ASP:N	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:568:ARG:C	1:B:570:LEU:HG	2.40	0.47
1:B:742:ARG:N	1:B:748:LEU:HD13	2.30	0.47
1:B:770:GLU:H	1:B:770:GLU:CD	2.22	0.47
1:B:783:LEU:HA	1:B:786:LEU:HD12	1.96	0.47
1:B:980:ILE:HG12	1:B:1024:VAL:HG23	1.97	0.47
1:E:227:ARG:HH21	1:E:1391:VAL:HG12	1.79	0.47
1:E:327:PHE:CG	1:E:532:ILE:HG13	2.50	0.47
1:E:1012:PHE:O	1:E:1016:LEU:HG	2.15	0.47
1:E:1615:GLU:HG2	1:E:1616:ALA:N	2.28	0.47
1:E:1851:LEU:HD12	1:E:1852:PHE:H	1.80	0.47
1:F:961:PRO:HB3	1:F:963:ARG:CZ	2.45	0.47
1:F:1426:SER:OG	1:F:1427:ALA:N	2.48	0.47
1:F:1599:TRP:HA	1:F:1602:ASN:HB2	1.96	0.47
1:F:1603:MET:O	1:F:1607:HIS:ND1	2.46	0.47
1:F:1950:ALA:HB2	1:F:1974:PHE:CZ	2.50	0.47
1:G:75:LEU:HG	1:G:1152:TYR:OH	2.13	0.47
1:G:344:LYS:HD2	1:G:394:PHE:CD1	2.49	0.47
1:G:1548:ALA:O	1:G:1552:GLN:HG2	2.14	0.47
1:G:1944:GLN:NE2	1:G:1949:VAL:HG22	2.29	0.47
1:H:238:PRO:HG3	1:H:1141:SER:HA	1.97	0.47
1:H:697:MET:HE2	1:H:699:TRP:CH2	2.49	0.47
1:A:53:PRO:HA	1:A:1108:PHE:HZ	1.75	0.47
1:A:120:TRP:CZ3	1:A:839:ALA:HB2	2.50	0.47
1:A:262:LEU:HB2	1:A:503:ALA:HA	1.96	0.47
1:A:269:LYS:NZ	1:A:270:PHE:O	2.48	0.47
1:A:312:HIS:CE1	1:A:650:LEU:HD21	2.50	0.47
1:A:538:ARG:NH1	1:A:538:ARG:HA	2.30	0.47
1:A:551:LEU:HD11	1:A:623:LEU:HB2	1.97	0.47
1:A:568:ARG:NH2	1:A:611:LYS:HE2	2.29	0.47
1:A:810:HIS:O	1:A:813:SER:OG	2.27	0.47
1:A:1021:TYR:HA	1:A:1024:VAL:CG1	2.38	0.47
1:A:1042:MET:O	1:A:1045:THR:N	2.47	0.47
1:A:1495:ILE:HG13	1:A:1496:GLY:H	1.80	0.47
1:A:1755:GLY:HA2	1:A:1767:GLN:O	2.15	0.47
1:C:152:GLN:OE1	1:C:1383:ASN:ND2	2.47	0.47
1:C:828:HIS:ND1	1:C:932:TRP:CD2	2.83	0.47
1:C:1058:ASN:HB3	1:C:1107:HIS:ND1	2.29	0.47
1:C:1555:MET:HG3	1:C:1556:PHE:N	2.29	0.47
1:C:1714:LEU:O	1:C:1718:ARG:N	2.47	0.47
1:C:1768:GLU:CD	1:C:1891:VAL:HB	2.39	0.47
1:C:1798:VAL:O	1:C:1818:ALA:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1856:PHE:HE1	1:C:1872:ARG:HB2	1.79	0.47
1:D:83:LEU:C	1:D:126:ARG:HH12	2.23	0.47
1:D:220:GLU:HA	1:D:223:ARG:HH21	1.80	0.47
1:D:320:THR:OG1	1:D:595:CYS:O	2.27	0.47
1:D:393:PRO:HD3	1:D:466:ARG:NH2	2.30	0.47
1:D:913:ALA:O	1:D:917:VAL:HG23	2.15	0.47
1:D:1383:ASN:O	1:D:1386:THR:OG1	2.32	0.47
1:B:100:PRO:HB2	1:B:105:LEU:HD21	1.97	0.47
1:B:1055:VAL:HG23	1:B:1056:THR:H	1.79	0.47
1:B:1550:GLN:HA	1:B:1553:ASP:OD2	2.14	0.47
1:B:1564:ASP:OD1	1:B:1565:THR:HG23	2.14	0.47
1:E:294:GLU:CD	1:E:533:LEU:HB2	2.40	0.47
1:E:327:PHE:CD1	1:E:532:ILE:HG13	2.50	0.47
1:E:926:ALA:HA	1:E:929:GLN:CD	2.39	0.47
1:E:1289:TYR:O	1:E:1292:LEU:HB3	2.14	0.47
1:E:1476:THR:O	1:E:1479:THR:OG1	2.25	0.47
1:E:1599:TRP:O	1:E:1603:MET:HG2	2.13	0.47
1:E:1617:ALA:HB1	1:E:1694:PHE:CD2	2.49	0.47
1:E:1653:ASN:HB3	1:E:1880:HIS:HD2	1.80	0.47
1:F:260:ARG:HH22	1:F:507:PRO:HD3	1.79	0.47
1:F:809:ALA:HA	1:F:934:PHE:HZ	1.79	0.47
1:F:994:ASN:HD22	1:F:1040:LEU:HD12	1.80	0.47
1:F:1058:ASN:O	1:F:1107:HIS:HA	2.14	0.47
1:F:1838:VAL:HG21	1:G:1718:ARG:HD2	1.96	0.47
1:F:1999:TYR:O	1:F:2002:GLU:HG3	2.14	0.47
1:G:755:GLN:HA	1:G:758:ARG:NE	2.29	0.47
1:G:1382:GLY:O	1:G:1386:THR:HG23	2.14	0.47
1:G:1599:TRP:CD1	1:G:1602:ASN:HD22	2.32	0.47
1:G:1608:ALA:HA	1:G:1613:HIS:CE1	2.50	0.47
1:G:1725:ALA:O	1:G:1729:LYS:HG3	2.14	0.47
1:G:1770:VAL:HG12	1:G:1882:PHE:HE2	1.78	0.47
1:H:926:ALA:HA	1:H:929:GLN:CD	2.40	0.47
1:H:1013:VAL:O	1:H:1017:VAL:HG23	2.15	0.47
1:H:1279:PRO:HB2	1:H:1283:ARG:NH1	2.28	0.47
1:H:1706:VAL:O	1:H:1710:LEU:HD23	2.14	0.47
1:H:1707:TYR:HD2	1:H:1730:LEU:HD12	1.78	0.47
1:H:1778:LYS:HZ3	1:H:1780:ALA:H	1.63	0.47
1:A:122:ILE:CD1	1:A:838:TYR:HA	2.45	0.47
1:A:405:VAL:HG13	1:A:449:PHE:HB2	1.97	0.47
1:A:917:VAL:O	1:D:924:ARG:NH2	2.48	0.47
1:A:1810:LYS:HA	1:A:1813:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:552:TYR:HB2	1:C:712:THR:O	2.14	0.47
1:C:588:VAL:HG23	1:C:621:LEU:HD11	1.97	0.47
1:C:836:VAL:HA	1:C:840:PHE:CB	2.43	0.47
1:C:842:LEU:HD22	1:C:944:LEU:HD11	1.96	0.47
1:C:1266:PRO:O	1:C:1269:LEU:HB2	2.14	0.47
1:C:1455:ASP:HB3	1:C:1458:LEU:CD1	2.45	0.47
1:C:1587:ARG:HH22	1:C:1656:GLU:HG3	1.80	0.47
1:D:578:THR:OG1	1:D:631:HIS:NE2	2.45	0.47
1:D:607:VAL:HG12	1:D:610:ASN:HB2	1.95	0.47
1:D:661:LEU:O	1:D:668:ARG:N	2.40	0.47
1:D:742:ARG:O	1:D:742:ARG:NH1	2.41	0.47
1:D:911:GLU:OE1	1:D:911:GLU:N	2.31	0.47
1:D:1146:HIS:O	1:D:1149:ASP:HB2	2.15	0.47
1:D:1464:LEU:O	1:D:1468:ARG:HG2	2.14	0.47
1:D:1590:GLN:HA	1:D:1596:ARG:HH11	1.79	0.47
1:D:1650:ILE:O	1:D:1845:TYR:OH	2.33	0.47
1:D:1701:GLU:O	1:D:1704:ASN:HB3	2.15	0.47
1:B:1128:ALA:O	1:B:1131:LEU:HB2	2.15	0.47
1:B:1598:THR:HA	1:B:1601:GLN:OE1	2.15	0.47
1:B:1800:GLU:HB2	1:B:1817:LYS:HG3	1.97	0.47
1:E:268:LEU:HD12	1:E:495:GLN:O	2.15	0.47
1:E:277:ILE:HG12	1:E:344:LYS:HG2	1.96	0.47
1:E:1767:GLN:HB3	1:E:1769:PHE:CE1	2.50	0.47
1:F:608:TYR:CG	1:F:609:HIS:N	2.82	0.47
1:F:1772:LYS:NZ	1:F:1884:TYR:H	2.13	0.47
1:F:1802:ILE:HB	1:F:1821:GLN:HA	1.96	0.47
1:G:260:ARG:HB3	1:G:503:ALA:HB3	1.97	0.47
1:G:731:VAL:HA	1:G:734:LEU:HD12	1.96	0.47
1:G:805:PHE:CD2	1:G:915:GLN:HG2	2.50	0.47
1:G:2002:GLU:HB2	1:G:2005:ARG:NH2	2.30	0.47
1:H:309:LEU:HD21	1:H:391:ARG:HH22	1.78	0.47
1:H:1011:GLY:HA2	1:H:1014:PHE:HD2	1.79	0.47
1:H:1927:ALA:O	1:H:1931:GLN:HB2	2.13	0.47
1:A:761:LEU:HA	1:A:764:LEU:HD23	1.97	0.47
1:A:1600:LEU:HD22	1:A:1619:CYS:O	2.15	0.47
1:A:1629:GLU:OE2	1:A:1644:CYS:HB3	2.14	0.47
1:A:1756:PHE:O	1:A:1766:GLU:N	2.46	0.47
1:C:83:LEU:HA	1:C:124:HIS:O	2.15	0.47
1:C:90:ARG:O	1:C:92:CYS:N	2.47	0.47
1:C:509:PHE:CE1	1:C:522:PRO:HD2	2.50	0.47
1:C:719:PRO:HB3	1:C:728:PHE:HE2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1476:THR:HB	1:C:1480:HIS:HE1	1.80	0.47
1:D:551:LEU:HB2	1:D:621:LEU:HB2	1.96	0.47
1:D:1389:SER:HB2	1:D:1432:PHE:CE1	2.50	0.47
1:D:1911:LYS:HA	1:D:1914:ARG:HE	1.79	0.47
1:D:1930:LEU:HD11	1:D:1984:ALA:HB1	1.97	0.47
1:B:116:TYR:CE2	1:B:778:HIS:HE1	2.33	0.47
1:B:220:GLU:O	1:B:224:ARG:HG2	2.15	0.47
1:B:660:PRO:HB2	1:B:668:ARG:NH2	2.30	0.47
1:B:719:PRO:HD3	1:B:728:PHE:CE2	2.49	0.47
1:B:780:LEU:HD12	1:B:781:ASP:N	2.30	0.47
1:B:936:GLN:HE22	1:B:940:LYS:HE2	1.79	0.47
1:B:982:ARG:NH1	1:B:985:LYS:HB2	2.28	0.47
1:B:1093:VAL:HA	1:B:1096:MET:SD	2.55	0.47
1:B:1096:MET:O	1:B:1167:PRO:HD3	2.15	0.47
1:B:1159:ALA:O	1:B:1163:GLU:HG3	2.15	0.47
1:B:1298:LYS:HA	1:B:1301:LYS:HE3	1.96	0.47
1:E:268:LEU:HD21	1:E:270:PHE:CZ	2.50	0.47
1:E:290:LYS:HZ2	1:E:292:ILE:HA	1.78	0.47
1:E:1513:LEU:HD11	1:E:1520:PHE:CE2	2.49	0.47
1:F:146:GLN:NE2	1:F:233:THR:O	2.48	0.47
1:F:609:HIS:O	1:F:610:ASN:ND2	2.48	0.47
1:F:792:ILE:HB	1:F:797:ILE:HD13	1.96	0.47
1:F:792:ILE:HG13	1:F:796:GLN:C	2.39	0.47
1:F:1606:LYS:O	1:F:1610:LEU:HG	2.13	0.47
1:F:1950:ALA:HB1	1:F:1954:LEU:HD12	1.96	0.47
1:G:549:ASN:ND2	1:G:623:LEU:O	2.48	0.47
1:G:1045:THR:O	1:G:1048:LEU:HG	2.15	0.47
1:G:1464:LEU:O	1:G:1468:ARG:NH1	2.47	0.47
1:G:1526:ARG:O	1:G:1529:LEU:HG	2.15	0.47
1:H:125:ARG:HH22	1:H:1003:ASP:HA	1.79	0.47
1:H:552:TYR:HB3	1:H:554:TYR:CZ	2.50	0.47
1:H:634:LEU:HD21	1:H:656:PHE:HD2	1.80	0.47
1:H:836:VAL:HA	1:H:840:PHE:HB2	1.97	0.47
1:H:1103:PHE:CE1	1:H:1107:HIS:HD2	2.33	0.47
1:H:1567:LYS:HA	1:H:1570:GLU:CD	2.39	0.47
1:A:223:ARG:HH22	1:A:224:ARG:CZ	2.27	0.47
1:A:925:GLU:O	1:A:928:LEU:HB2	2.14	0.47
1:A:956:ARG:HD3	1:A:1008:VAL:C	2.40	0.47
1:A:1564:ASP:OD1	1:A:1565:THR:HG23	2.14	0.47
1:A:1749:GLY:HA2	1:A:1774:PRO:HA	1.96	0.47
1:A:1769:PHE:CE2	1:A:1890:ARG:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:155:GLU:OE2	1:C:1473:ARG:NE	2.45	0.47
1:C:698:ARG:HH12	1:C:700:VAL:CG2	2.28	0.47
1:C:698:ARG:HH12	1:C:700:VAL:HG23	1.79	0.47
1:C:802:ARG:NH2	1:B:977:LEU:HD11	2.27	0.47
1:C:975:VAL:O	1:C:979:VAL:HG12	2.15	0.47
1:C:1008:VAL:O	1:C:1010:ARG:HD2	2.15	0.47
1:C:1292:LEU:HD11	1:C:1389:SER:HA	1.97	0.47
1:C:1559:HIS:CE1	1:E:2024:GLN:HG3	2.50	0.47
1:C:1567:LYS:HA	1:C:1570:GLU:CD	2.40	0.47
1:C:1613:HIS:ND1	1:C:1696:MET:SD	2.88	0.47
1:C:1865:GLU:N	1:C:1868:GLU:OE2	2.41	0.47
1:D:65:PRO:HB3	1:D:76:VAL:HG11	1.97	0.47
1:D:543:PRO:HA	1:D:774:ALA:HA	1.97	0.47
1:D:1486:TYR:CE2	1:D:1535:TYR:HB3	2.49	0.47
1:D:1596:ARG:O	1:D:1600:LEU:HD23	2.14	0.47
1:D:1845:TYR:HA	1:D:1883:PRO:HD2	1.95	0.47
1:B:832:LEU:O	1:B:836:VAL:HG23	2.15	0.47
1:B:1129:PHE:CD2	1:B:1130:LEU:HG	2.50	0.47
1:B:1144:CYS:HA	1:B:1147:ASP:OD1	2.15	0.47
1:E:554:TYR:HB2	1:E:710:GLU:HG2	1.96	0.47
1:E:638:TYR:HB3	1:E:651:GLU:HB2	1.97	0.47
1:E:723:TYR:CD2	1:E:767:ALA:HB2	2.49	0.47
1:E:724:LEU:HD11	1:E:772:LEU:HD23	1.96	0.47
1:E:960:PHE:HB3	1:E:964:PHE:HD2	1.80	0.47
1:E:1396:LEU:O	1:E:1400:VAL:HG23	2.15	0.47
1:E:1750:THR:HG23	1:E:1775:SER:HA	1.97	0.47
1:E:1766:GLU:HG3	1:E:1766:GLU:O	2.15	0.47
1:F:305:MET:O	1:F:309:LEU:HG	2.15	0.47
1:F:453:THR:OG1	1:F:499:ASP:OD1	2.23	0.47
1:F:512:SER:HB3	1:F:518:ILE:HD11	1.96	0.47
1:F:723:TYR:CE1	1:F:763:ALA:HB1	2.50	0.47
1:F:907:LEU:O	1:F:910:GLU:HG2	2.15	0.47
1:F:966:ASP:HA	1:F:969:THR:HG23	1.97	0.47
1:F:1019:ALA:HA	1:F:1022:LYS:HZ2	1.79	0.47
1:F:1029:GLN:OE1	1:F:1029:GLN:N	2.34	0.47
1:F:1297:TYR:CE1	1:F:1381:GLU:HG3	2.47	0.47
1:F:1410:GLU:HG2	1:F:1411:SER:N	2.30	0.47
1:F:1438:ALA:HA	1:F:1441:ARG:NE	2.30	0.47
1:F:1451:LEU:HA	1:F:1458:LEU:HD23	1.96	0.47
1:F:1753:ARG:HE	1:F:1753:ARG:HB2	1.56	0.47
1:F:1845:TYR:HD1	1:F:1883:PRO:HD2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1276:LEU:HD23	1:G:1281:LEU:HD23	1.97	0.47
1:G:1515:GLY:HA3	1:G:1602:ASN:CG	2.40	0.47
1:G:1533:LEU:HG	1:G:1552:GLN:OE1	2.15	0.47
1:G:1580:ASP:O	1:G:1584:ARG:HG3	2.14	0.47
1:H:348:GLN:HG3	1:H:383:PHE:HE1	1.80	0.47
1:H:1097:PHE:HZ	1:H:1268:LEU:HD12	1.80	0.47
1:H:1621:VAL:HG13	1:H:1647:PHE:HD1	1.80	0.47
1:H:1653:ASN:OD1	1:H:1848:ARG:NH2	2.46	0.47
1:H:1694:PHE:HB2	1:H:1703:VAL:CG2	2.45	0.47
1:A:53:PRO:HA	1:A:1108:PHE:CE1	2.49	0.46
1:A:453:THR:HG23	1:A:499:ASP:OD1	2.14	0.46
1:A:961:PRO:HB2	1:A:964:PHE:H	1.80	0.46
1:A:1176:LEU:HA	1:A:1179:LEU:HD12	1.96	0.46
1:A:1397:GLU:HG3	1:A:1401:GLN:HE22	1.79	0.46
1:A:1413:LEU:HD23	1:A:1416:VAL:HG21	1.96	0.46
1:A:1632:ALA:HB2	1:A:1640:LEU:HD13	1.97	0.46
1:C:938:MET:O	1:C:941:SER:HB3	2.15	0.46
1:C:1110:ALA:O	1:C:1114:LEU:HG	2.15	0.46
1:C:1550:GLN:HA	1:C:1553:ASP:OD2	2.16	0.46
1:C:1568:MET:HG2	1:C:1578:LEU:HD21	1.97	0.46
1:C:1699:LEU:HD13	1:C:1701:GLU:OE2	2.15	0.46
1:D:84:GLU:HB2	1:D:126:ARG:HH11	1.80	0.46
1:D:393:PRO:HB2	1:D:462:GLN:HB3	1.97	0.46
1:D:1533:LEU:HG	1:D:1555:MET:SD	2.55	0.46
1:D:1587:ARG:NH1	1:D:1590:GLN:OE1	2.47	0.46
1:B:220:GLU:HA	1:B:223:ARG:HD3	1.98	0.46
1:B:232:LEU:HD11	1:B:1256:CYS:HA	1.97	0.46
1:B:570:LEU:HD23	1:B:639:HIS:HA	1.96	0.46
1:B:755:GLN:O	1:B:758:ARG:HG3	2.15	0.46
1:B:1266:PRO:O	1:B:1270:GLN:HG3	2.15	0.46
1:B:1447:PHE:HD2	1:B:1450:LEU:HD23	1.79	0.46
1:B:1661:SER:OG	1:B:1664:ILE:HG13	2.15	0.46
1:B:1850:PHE:O	1:B:1875:LEU:HA	2.15	0.46
1:B:1909:MET:HE2	1:B:1974:PHE:CG	2.50	0.46
1:E:269:LYS:HB2	1:E:495:GLN:HB2	1.97	0.46
1:E:548:ARG:HE	1:E:714:VAL:HG21	1.80	0.46
1:E:914:LEU:O	1:E:918:VAL:HG22	2.15	0.46
1:E:1028:LEU:O	1:E:1034:PRO:HB3	2.16	0.46
1:E:1714:LEU:HD12	1:E:1717:HIS:ND1	2.31	0.46
1:E:1723:LEU:HB3	1:E:1727:HIS:HE1	1.79	0.46
1:E:1784:HIS:O	1:E:1785:ARG:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:574:VAL:HG13	1:F:635:PHE:HE1	1.80	0.46
1:F:1018:ARG:HH11	1:F:1022:LYS:NZ	2.04	0.46
1:F:1382:GLY:O	1:F:1386:THR:HG23	2.15	0.46
1:F:1531:THR:O	1:F:1534:THR:OG1	2.29	0.46
1:G:344:LYS:O	1:G:392:MET:N	2.36	0.46
1:G:913:ALA:N	1:G:938:MET:HE1	2.30	0.46
1:G:1468:ARG:HH21	1:G:1513:LEU:HD22	1.80	0.46
1:G:1753:ARG:HG3	1:G:1825:VAL:HG21	1.97	0.46
1:H:212:PRO:HA	1:H:215:VAL:HG22	1.97	0.46
1:H:569:ASN:OD1	1:H:609:HIS:N	2.41	0.46
1:H:629:GLU:HG2	1:H:687:VAL:HG23	1.98	0.46
1:H:954:THR:O	1:H:959:ARG:NH2	2.48	0.46
1:H:1597:LEU:HB2	1:H:1678:PHE:HE2	1.80	0.46
1:A:474:LYS:HA	1:A:474:LYS:HD2	1.76	0.46
1:A:728:PHE:HZ	1:A:775:PHE:HD1	1.63	0.46
1:A:1149:ASP:HB2	1:A:1152:TYR:CD2	2.49	0.46
1:A:1253:LEU:CD2	1:A:1254:LEU:HD22	2.38	0.46
1:A:1539:ASP:C	1:A:1543:ARG:HH12	2.23	0.46
1:A:1729:LYS:HA	1:A:1732:GLU:CD	2.40	0.46
1:A:1747:VAL:HA	1:A:1840:TYR:CE2	2.50	0.46
1:A:1829:PHE:HB3	1:A:1834:LEU:HB2	1.96	0.46
1:C:115:MET:HE1	1:C:777:HIS:CD2	2.42	0.46
1:C:266:LEU:HB2	1:C:497:LYS:HB3	1.96	0.46
1:D:573:ARG:HA	1:D:602:ALA:O	2.15	0.46
1:D:1553:ASP:OD1	1:D:1554:LEU:N	2.47	0.46
1:D:1630:TYR:CE1	1:D:1634:LEU:HD21	2.51	0.46
1:B:154:PHE:O	1:B:158:ALA:HB3	2.15	0.46
1:B:807:ALA:O	1:B:808:MET:C	2.58	0.46
1:B:932:TRP:HA	1:B:935:PHE:HD2	1.80	0.46
1:B:1042:MET:O	1:B:1045:THR:N	2.49	0.46
1:B:1176:LEU:HD23	1:B:1179:LEU:HD12	1.97	0.46
1:B:1504:MET:O	1:B:1508:MET:HE2	2.15	0.46
1:B:1714:LEU:HD23	1:B:1717:HIS:CD2	2.50	0.46
1:E:1045:THR:O	1:E:1048:LEU:HG	2.15	0.46
1:E:1053:HIS:O	1:E:1057:LEU:HG	2.15	0.46
1:E:1559:HIS:CD2	1:E:1562:LEU:HD12	2.51	0.46
1:E:1988:ASN:ND2	1:E:2003:LEU:HD12	2.30	0.46
1:F:216:ASP:OD1	1:F:217:ARG:N	2.48	0.46
1:F:828:HIS:HD1	1:F:932:TRP:CG	2.32	0.46
1:F:964:PHE:CZ	1:F:968:ILE:HD11	2.50	0.46
1:F:1021:TYR:CZ	1:F:1112:LEU:HD21	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1034:PRO:HA	1:F:1037:LEU:HD13	1.96	0.46
1:F:1600:LEU:HD23	1:F:1603:MET:CE	2.44	0.46
1:F:1771:TYR:HD1	1:F:1888:ARG:HB3	1.79	0.46
1:G:1043:GLU:O	1:G:1046:ARG:HG2	2.15	0.46
1:G:1121:LEU:O	1:G:1132:HIS:NE2	2.48	0.46
1:H:1530:LYS:O	1:H:1534:THR:HG23	2.15	0.46
1:H:1539:ASP:O	1:H:1543:ARG:HG2	2.16	0.46
1:A:140:ASP:O	1:A:143:ARG:HG2	2.15	0.46
1:A:775:PHE:O	1:A:779:VAL:HG13	2.15	0.46
1:A:1170:SER:O	1:A:1173:ARG:HB3	2.16	0.46
1:A:1277:THR:OG1	1:A:1280:GLN:OE1	2.31	0.46
1:A:1438:ALA:O	1:A:1441:ARG:HB2	2.15	0.46
1:A:1549:GLU:H	1:A:1549:GLU:CD	2.23	0.46
1:A:1597:LEU:HD12	1:A:1627:VAL:HG21	1.96	0.46
1:A:1942:VAL:HG12	1:A:1944:GLN:H	1.81	0.46
1:C:1386:THR:O	1:C:1390:LEU:HG	2.16	0.46
1:C:1618:GLN:HE22	1:C:1883:PRO:C	2.23	0.46
1:C:1637:HIS:O	1:C:1640:LEU:HG	2.15	0.46
1:C:1711:ILE:HB	1:C:1712:PRO:HD3	1.97	0.46
1:C:1733:ALA:O	1:C:1736:LYS:HG2	2.15	0.46
1:C:1965:ARG:HG3	1:C:1966:HIS:CE1	2.50	0.46
1:D:715:SER:OG	1:D:718:HIS:N	2.48	0.46
1:D:721:ASP:OD2	1:D:723:TYR:N	2.49	0.46
1:D:1051:HIS:HE1	1:D:1053:HIS:HB2	1.80	0.46
1:D:1552:GLN:O	1:D:1555:MET:HG2	2.14	0.46
1:D:1695:THR:HA	1:D:1700:TYR:HE1	1.81	0.46
1:D:1763:ASP:OD1	1:D:1764:LEU:N	2.48	0.46
1:D:1826:GLU:HG2	1:D:1851:LEU:O	2.16	0.46
1:D:1839:THR:O	1:D:1843:ARG:HG3	2.15	0.46
1:B:268:LEU:HD11	1:B:270:PHE:CD2	2.49	0.46
1:B:527:ARG:NH1	1:B:528:PRO:HD2	2.27	0.46
1:B:1947:LEU:O	1:B:1951:GLN:HG2	2.15	0.46
1:E:212:PRO:HD3	1:E:1446:LYS:HZ1	1.80	0.46
1:E:675:PRO:HD2	1:E:690:PRO:HB2	1.97	0.46
1:F:111:ALA:HA	1:F:114:GLU:OE2	2.16	0.46
1:F:805:PHE:CD2	1:F:915:GLN:HG2	2.50	0.46
1:F:977:LEU:O	1:F:981:THR:OG1	2.22	0.46
1:F:1054:TYR:C	1:F:1058:ASN:HD22	2.22	0.46
1:F:1486:TYR:CE1	1:F:1535:TYR:HB3	2.51	0.46
1:F:1750:THR:HG23	1:F:1775:SER:OG	2.15	0.46
1:G:558:LEU:HD13	1:G:707:PHE:CA	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1245:LEU:HD23	1:G:1250:SER:HB3	1.98	0.46
1:H:213:GLU:HA	1:H:216:ASP:OD2	2.16	0.46
1:H:719:PRO:HA	1:H:775:PHE:CZ	2.50	0.46
1:H:730:LEU:HA	1:H:733:VAL:HG12	1.96	0.46
1:H:1040:LEU:HA	1:H:1043:GLU:HG2	1.97	0.46
1:H:1573:GLU:OE1	1:H:1573:GLU:N	2.29	0.46
1:H:1715:GLU:O	1:H:1718:ARG:HD3	2.15	0.46
1:H:1884:TYR:CE2	1:H:1885:ILE:HG12	2.50	0.46
1:H:1953:PHE:O	1:H:1956:GLU:HG2	2.14	0.46
1:A:568:ARG:CZ	1:A:611:LYS:HE2	2.45	0.46
1:A:576:TYR:CE2	1:A:586:LEU:HD12	2.49	0.46
1:A:1009:ASP:O	1:A:1013:VAL:HG23	2.16	0.46
1:A:1530:LYS:HA	1:A:1533:LEU:HD13	1.98	0.46
1:A:1764:LEU:O	1:A:1767:GLN:HG2	2.15	0.46
1:A:1767:GLN:HB3	1:A:1769:PHE:HE1	1.81	0.46
1:A:1850:PHE:O	1:A:1875:LEU:HA	2.16	0.46
1:A:2005:ARG:HH11	1:A:2009:ARG:HH22	1.62	0.46
1:C:283:LEU:HD11	1:C:401:LEU:HG	1.98	0.46
1:C:286:VAL:HB	1:C:335:ASP:HB3	1.95	0.46
1:C:521:TYR:HE2	1:C:524:PRO:HA	1.79	0.46
1:C:721:ASP:OD1	1:C:722:PRO:HD2	2.15	0.46
1:C:1017:VAL:O	1:C:1021:TYR:HD1	1.98	0.46
1:C:1400:VAL:HG13	1:C:1409:ARG:HH22	1.80	0.46
1:C:1510:LEU:O	1:C:1514:VAL:HG22	2.16	0.46
1:C:1720:TYR:OH	1:D:1738:MET:HA	2.16	0.46
1:D:637:PHE:HB2	1:D:655:GLY:HA3	1.97	0.46
1:D:944:LEU:HD23	1:D:947:LEU:HD12	1.97	0.46
1:D:988:GLU:HA	1:D:991:GLU:HG3	1.97	0.46
1:D:1550:GLN:HA	1:D:1553:ASP:OD2	2.16	0.46
1:B:275:GLU:HB2	1:B:344:LYS:HE3	1.97	0.46
1:B:346:LEU:HD21	1:B:642:CYS:SG	2.55	0.46
1:B:632:HIS:NE2	1:B:685:TYR:OH	2.14	0.46
1:B:664:HIS:O	1:B:742:ARG:NH1	2.48	0.46
1:B:920:SER:H	1:B:923:VAL:HB	1.80	0.46
1:B:973:GLY:O	1:B:977:LEU:HG	2.15	0.46
1:B:1146:HIS:HA	1:B:1149:ASP:OD2	2.15	0.46
1:B:1866:LEU:HA	1:B:1869:GLN:CB	2.42	0.46
1:E:146:GLN:HA	1:E:149:LEU:HD23	1.98	0.46
1:E:548:ARG:H	1:E:716:SER:HB3	1.81	0.46
1:E:1272:TRP:NE1	1:E:1276:LEU:HD22	2.31	0.46
1:E:1420:VAL:O	1:E:1423:SER:OG	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1468:ARG:HA	1:E:1520:PHE:CE1	2.50	0.46
1:E:1689:GLN:HB2	1:E:1693:TYR:CE2	2.50	0.46
1:E:1711:ILE:O	1:E:1715:GLU:CB	2.45	0.46
1:F:286:VAL:HA	1:F:289:LYS:HA	1.97	0.46
1:F:396:TRP:HD1	1:F:462:GLN:HG3	1.80	0.46
1:F:592:LYS:HD2	1:F:593:SER:O	2.16	0.46
1:F:935:PHE:O	1:F:938:MET:HB2	2.15	0.46
1:F:1012:PHE:O	1:F:1015:SER:OG	2.24	0.46
1:G:1255:ALA:HB2	1:G:1295:PHE:CZ	2.50	0.46
1:G:1474:ILE:HB	1:G:1477:ILE:HD12	1.96	0.46
1:G:1482:SER:HA	1:G:1485:LEU:HD12	1.96	0.46
1:G:1529:LEU:HA	1:G:1532:ILE:HG22	1.97	0.46
1:G:1579:ILE:HG21	1:G:1607:HIS:NE2	2.30	0.46
1:G:1690:ALA:O	1:G:1694:PHE:HD2	1.99	0.46
1:H:1403:VAL:HG21	1:H:1412:VAL:HG11	1.98	0.46
1:A:267:SER:O	1:A:496:LEU:HD12	2.14	0.46
1:A:348:GLN:NE2	1:A:644:PRO:HD3	2.30	0.46
1:A:562:SER:OG	1:A:701:ASP:OD2	2.25	0.46
1:A:682:PRO:O	1:A:685:TYR:HB3	2.14	0.46
1:A:722:PRO:O	1:A:725:ASP:HB3	2.15	0.46
1:A:743:LEU:HB2	1:A:746:THR:O	2.15	0.46
1:A:834:ALA:O	1:A:838:TYR:HD2	1.98	0.46
1:A:1006:SER:O	1:A:1007:LEU:HD22	2.14	0.46
1:A:1034:PRO:O	1:A:1037:LEU:HB2	2.16	0.46
1:A:1491:GLN:HA	1:A:1494:GLU:OE1	2.15	0.46
1:C:282:ALA:HB2	1:C:294:GLU:O	2.16	0.46
1:C:807:ALA:O	1:C:808:MET:C	2.58	0.46
1:C:944:LEU:HA	1:C:947:LEU:HD12	1.96	0.46
1:C:1494:GLU:HB2	1:C:1495:ILE:HD12	1.98	0.46
1:C:1787:GLU:HB2	1:C:1801:ILE:HD11	1.98	0.46
1:D:276:PRO:HD2	1:D:345:VAL:HG21	1.98	0.46
1:D:282:ALA:HB2	1:D:294:GLU:O	2.16	0.46
1:D:341:LYS:HD2	1:D:616:TYR:CZ	2.50	0.46
1:D:346:LEU:HD23	1:D:387:LEU:HB3	1.98	0.46
1:D:658:TRP:CE2	1:D:685:TYR:HD2	2.32	0.46
1:D:719:PRO:O	1:D:720:GLN:HB3	2.14	0.46
1:D:1431:LEU:HG	1:D:1435:HIS:CE1	2.50	0.46
1:D:1745:GLU:C	1:D:1746:ARG:HD2	2.41	0.46
1:B:79:PRO:HG2	1:B:127:TYR:HE2	1.80	0.46
1:B:217:ARG:HH22	1:B:218:ARG:HB2	1.81	0.46
1:B:264:LYS:HB3	1:B:323:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:784:VAL:O	1:B:788:ILE:HG22	2.15	0.46
1:B:933:PHE:O	1:B:937:LEU:HG	2.15	0.46
1:B:979:VAL:CB	1:B:993:LEU:HD23	2.45	0.46
1:B:1806:ASN:OD1	1:B:1872:ARG:NH2	2.49	0.46
1:B:1865:GLU:OE1	1:B:1867:PRO:HD2	2.15	0.46
1:E:108:GLN:HG3	1:E:732:HIS:CD2	2.48	0.46
1:E:309:LEU:HD11	1:E:391:ARG:NH2	2.30	0.46
1:E:466:ARG:HD2	1:E:614:GLU:C	2.40	0.46
1:E:513:PRO:HG2	1:E:533:LEU:CG	2.43	0.46
1:E:968:ILE:HD13	1:E:971:LEU:HD23	1.97	0.46
1:E:1012:PHE:CE1	1:E:1016:LEU:HD21	2.50	0.46
1:E:1437:LEU:HG	1:E:1440:GLN:HE21	1.80	0.46
1:E:1539:ASP:O	1:E:1543:ARG:NH1	2.48	0.46
1:E:1574:ASP:CG	1:E:1577:MET:HE2	2.41	0.46
1:E:1767:GLN:HA	1:E:1890:ARG:NH1	2.31	0.46
1:E:1778:LYS:O	1:E:1782:ILE:HG22	2.15	0.46
1:E:1856:PHE:CZ	1:E:1898:VAL:HG22	2.51	0.46
1:F:120:TRP:CD2	1:F:838:TYR:HB3	2.51	0.46
1:F:219:ASN:HA	1:F:222:LEU:HD12	1.97	0.46
1:F:780:LEU:O	1:F:784:VAL:HG23	2.15	0.46
1:F:808:MET:O	1:F:812:VAL:HG23	2.16	0.46
1:G:400:HIS:CE1	1:G:402:ALA:HB3	2.50	0.46
1:G:1276:LEU:HB3	1:G:1281:LEU:HD21	1.98	0.46
1:G:1977:PHE:CE2	1:G:2010:LEU:HD21	2.50	0.46
1:H:1549:GLU:OE1	1:H:1549:GLU:N	2.33	0.46
1:A:129:TYR:O	1:A:135:SER:HB2	2.16	0.46
1:A:541:TYR:HB3	1:A:773:VAL:HG21	1.98	0.46
1:A:1461:ASP:HA	1:A:1464:LEU:HB2	1.96	0.46
1:C:660:PRO:HG2	1:C:689:THR:HA	1.96	0.46
1:C:1285:LEU:HD21	1:C:1399:ILE:HD13	1.98	0.46
1:C:1875:LEU:C	1:C:1876:LEU:HD22	2.41	0.46
1:C:1937:SER:HB3	1:C:1977:PHE:CZ	2.50	0.46
1:D:259:GLN:HE21	1:D:329:VAL:HB	1.81	0.46
1:D:477:ALA:O	1:D:480:ARG:NH1	2.46	0.46
1:D:1422:TYR:HA	1:D:1465:ARG:NH1	2.30	0.46
1:D:1580:ASP:O	1:D:1584:ARG:HG2	2.16	0.46
1:B:129:TYR:O	1:B:135:SER:HB2	2.16	0.46
1:B:242:GLU:O	1:B:1046:ARG:NH1	2.49	0.46
1:B:972:VAL:O	1:B:975:VAL:HG12	2.16	0.46
1:B:1046:ARG:HE	1:B:1047:ILE:HG13	1.81	0.46
1:B:1580:ASP:OD1	1:B:1584:ARG:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1590:GLN:HA	1:B:1596:ARG:HD3	1.97	0.46
1:E:539:GLU:HB2	1:E:770:GLU:CG	2.46	0.46
1:E:935:PHE:HA	1:E:938:MET:SD	2.55	0.46
1:E:1015:SER:O	1:E:1018:ARG:HD3	2.15	0.46
1:E:1473:ARG:HG3	1:E:1524:HIS:CE1	2.51	0.46
1:E:1706:VAL:O	1:E:1709:ASN:HB2	2.14	0.46
1:E:1884:TYR:CE2	1:E:1886:LYS:HE2	2.51	0.46
1:F:575:GLN:HB3	1:F:634:LEU:O	2.14	0.46
1:F:755:GLN:HA	1:F:758:ARG:HE	1.81	0.46
1:F:790:PRO:HD3	1:F:906:LYS:HG3	1.96	0.46
1:G:53:PRO:HA	1:G:1108:PHE:CZ	2.51	0.46
1:G:560:PHE:HE1	1:G:700:VAL:HG11	1.80	0.46
1:G:907:LEU:O	1:G:910:GLU:HG2	2.15	0.46
1:G:1564:ASP:HA	1:G:1567:LYS:HG2	1.96	0.46
1:G:1613:HIS:CD2	1:G:1696:MET:HE2	2.51	0.46
1:G:1877:SER:OG	1:G:1893:HIS:HB2	2.15	0.46
1:H:397:THR:HB	1:H:459:PHE:CD2	2.50	0.46
1:H:1461:ASP:O	1:H:1465:ARG:HG2	2.15	0.46
1:A:1009:ASP:OD1	1:A:1011:GLY:N	2.46	0.46
1:A:1615:GLU:HB2	1:A:1885:ILE:C	2.39	0.46
1:A:1826:GLU:O	1:A:1851:LEU:N	2.35	0.46
1:A:1987:LYS:HD3	1:A:1990:ALA:HB3	1.98	0.46
1:C:90:ARG:HG3	1:C:120:TRP:CZ2	2.51	0.46
1:C:972:VAL:O	1:C:975:VAL:HG12	2.16	0.46
1:C:1018:ARG:HG2	1:C:1022:LYS:NZ	2.31	0.46
1:C:1162:ALA:C	1:C:1164:LEU:H	2.24	0.46
1:D:70:GLY:C	1:D:72:LEU:H	2.24	0.46
1:D:1093:VAL:HG22	1:D:1097:PHE:CZ	2.51	0.46
1:D:1615:GLU:HB2	1:D:1885:ILE:C	2.40	0.46
1:D:1789:PHE:HA	1:D:1792:GLU:OE1	2.16	0.46
1:D:1857:THR:HG21	1:D:1861:ARG:NH1	2.31	0.46
1:B:658:TRP:CZ3	1:B:690:PRO:HB3	2.51	0.46
1:B:968:ILE:HG23	1:B:971:LEU:HD23	1.97	0.46
1:B:979:VAL:HG21	1:B:994:ASN:ND2	2.31	0.46
1:B:1493:PHE:CZ	1:B:1547:PHE:HB2	2.51	0.46
1:E:259:GLN:NE2	1:E:332:PRO:HB3	2.31	0.46
1:E:1646:SER:HB2	1:E:1709:ASN:HD21	1.81	0.46
1:E:1989:LYS:HB2	1:E:2000:HIS:CE1	2.39	0.46
1:F:154:PHE:O	1:F:158:ALA:CB	2.64	0.46
1:F:632:HIS:HB2	1:F:660:PRO:HA	1.97	0.46
1:F:1132:HIS:O	1:F:1136:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1636:ASP:HA	1:F:1640:LEU:HD21	1.98	0.46
1:F:1726:VAL:HA	1:F:1729:LYS:HD2	1.97	0.46
1:G:55:ASP:O	1:G:59:VAL:HG23	2.15	0.46
1:G:217:ARG:HH22	1:G:218:ARG:NH2	2.13	0.46
1:G:553:VAL:HG22	1:G:711:LEU:HD12	1.98	0.46
1:G:715:SER:HB3	1:G:718:HIS:HB2	1.97	0.46
1:G:1401:GLN:HA	1:G:1404:MET:CE	2.46	0.46
1:G:1426:SER:OG	1:G:1427:ALA:N	2.48	0.46
1:G:1490:ARG:HG3	1:G:1491:GLN:N	2.30	0.46
1:G:1502:VAL:O	1:G:1506:VAL:HG12	2.15	0.46
1:H:246:ARG:NH1	1:H:248:SER:HB2	2.31	0.46
1:H:736:GLU:HG2	1:H:738:ALA:H	1.81	0.46
1:H:1012:PHE:CE1	1:H:1016:LEU:HD21	2.50	0.46
1:H:1756:PHE:CD1	1:H:1820:ILE:HG12	2.50	0.46
1:A:223:ARG:HG3	1:A:1390:LEU:HD11	1.97	0.46
1:A:538:ARG:HA	1:A:538:ARG:CZ	2.46	0.46
1:A:1018:ARG:HA	1:A:1021:TYR:HD1	1.81	0.46
1:A:1113:LEU:O	1:A:1117:LEU:HG	2.16	0.46
1:C:284:TYR:OH	1:C:295:ASN:ND2	2.49	0.46
1:C:1001:LEU:HD12	1:C:1044:PHE:HE1	1.81	0.46
1:C:1401:GLN:HA	1:C:1404:MET:CE	2.43	0.46
1:D:490:ARG:HD3	1:D:490:ARG:H	1.81	0.46
1:D:841:ARG:HG3	1:D:843:PRO:HD3	1.98	0.46
1:D:916:TRP:CD1	1:D:927:ILE:HD13	2.50	0.46
1:D:1253:LEU:CD2	1:D:1254:LEU:HD22	2.42	0.46
1:D:1586:ALA:HB1	1:D:1596:ARG:HE	1.81	0.46
1:D:1892:CYS:HA	1:H:1893:HIS:HE1	1.79	0.46
1:B:81:ASP:HB2	1:B:126:ARG:NH2	2.31	0.46
1:B:641:SER:OG	1:B:649:ALA:O	2.31	0.46
1:B:1025:ALA:O	1:B:1028:LEU:HG	2.16	0.46
1:B:1901:PRO:HA	1:B:1904:VAL:HB	1.98	0.46
1:B:1933:VAL:O	1:B:1937:SER:OG	2.27	0.46
1:E:1606:LYS:O	1:E:1610:LEU:HG	2.16	0.46
1:E:1750:THR:HB	1:E:1824:TYR:HE1	1.81	0.46
1:F:116:TYR:OH	1:F:716:SER:HB2	2.15	0.46
1:F:753:VAL:O	1:F:757:LEU:HG	2.15	0.46
1:F:758:ARG:NH2	1:H:1022:LYS:HB3	2.27	0.46
1:F:1169:LEU:O	1:F:1173:ARG:NE	2.47	0.46
1:F:1729:LYS:HA	1:F:1732:GLU:OE1	2.16	0.46
1:F:1813:LEU:HD13	1:F:1819:TYR:CG	2.50	0.46
1:G:81:ASP:OD1	1:G:81:ASP:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1403:VAL:HG11	1:G:1412:VAL:HG11	1.97	0.46
1:G:1486:TYR:CE1	1:G:1535:TYR:HB3	2.51	0.46
1:G:1564:ASP:HB2	1:G:1567:LYS:HE2	1.98	0.46
1:H:1053:HIS:O	1:H:1057:LEU:HG	2.16	0.46
1:H:1618:GLN:NE2	1:H:1883:PRO:O	2.49	0.46
1:A:468:SER:HB2	1:A:471:ASP:OD1	2.16	0.46
1:A:782:LYS:O	1:A:786:LEU:HG	2.15	0.46
1:A:956:ARG:HG2	1:A:959:ARG:HE	1.81	0.46
1:A:1567:LYS:HA	1:A:1570:GLU:CD	2.41	0.46
1:C:105:LEU:H	1:C:110:ARG:HE	1.64	0.46
1:C:479:MET:HA	1:C:486:LEU:HD11	1.98	0.46
1:C:577:MET:HE2	1:C:632:HIS:NE2	2.30	0.46
1:C:587:PRO:HD3	1:C:600:ARG:NH1	2.30	0.46
1:C:623:LEU:HD12	1:C:624:PRO:HD2	1.97	0.46
1:C:810:HIS:O	1:C:813:SER:OG	2.25	0.46
1:C:1117:LEU:O	1:C:1121:LEU:HD23	2.16	0.46
1:C:1415:ALA:O	1:C:1419:VAL:HG23	2.15	0.46
1:C:1636:ASP:OD1	1:C:1640:LEU:HD11	2.16	0.46
1:C:1706:VAL:O	1:C:1710:LEU:HD23	2.16	0.46
1:C:1733:ALA:HA	1:C:1736:LYS:HZ3	1.80	0.46
1:C:1756:PHE:O	1:C:1766:GLU:N	2.45	0.46
1:D:832:LEU:HD23	1:D:933:PHE:CE1	2.51	0.46
1:D:1025:ALA:HA	1:D:1028:LEU:HG	1.98	0.46
1:D:1029:GLN:OE1	1:D:1029:GLN:N	2.33	0.46
1:D:1663:ASP:N	1:H:1835:LYS:HZ3	2.14	0.46
1:D:1857:THR:OG1	1:D:1861:ARG:HB2	2.16	0.46
1:B:86:LEU:O	1:B:121:VAL:HA	2.16	0.46
1:B:466:ARG:HD2	1:B:614:GLU:C	2.40	0.46
1:B:1109:LEU:HD12	1:B:1109:LEU:N	2.30	0.46
1:B:1143:LEU:HA	1:B:1143:LEU:HD23	1.67	0.46
1:B:1436:GLY:O	1:B:1439:THR:HB	2.16	0.46
1:E:63:ARG:HD2	1:E:1063:PRO:CD	2.44	0.46
1:E:634:LEU:HD21	1:E:656:PHE:HD2	1.81	0.46
1:E:1060:PRO:HB2	1:E:1160:ARG:HD2	1.96	0.46
1:E:1565:THR:HA	1:E:1568:MET:HG3	1.98	0.46
1:E:1827:PRO:HA	1:E:1850:PHE:HA	1.96	0.46
1:E:1876:LEU:HA	1:E:1893:HIS:O	2.16	0.46
1:E:1895:GLU:OE1	1:E:1895:GLU:N	2.49	0.46
1:E:1968:ASN:HA	1:E:1971:ARG:HE	1.77	0.46
1:F:202:LEU:HB3	1:F:204:PRO:HD3	1.98	0.46
1:F:913:ALA:O	1:F:917:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1038:LEU:HD23	1:F:1041:ARG:HG3	1.98	0.46
1:G:1430:ALA:O	1:G:1434:GLN:HG3	2.15	0.46
1:G:1723:LEU:O	1:G:1727:HIS:HB2	2.16	0.46
1:G:1813:LEU:HD13	1:G:1819:TYR:CG	2.51	0.46
1:G:1846:GLY:HA2	1:G:1881:ALA:HB1	1.98	0.46
1:H:294:GLU:CD	1:H:533:LEU:HB2	2.41	0.46
1:H:558:LEU:HD22	1:H:637:PHE:CE1	2.51	0.46
1:H:1028:LEU:O	1:H:1034:PRO:HB3	2.16	0.46
1:H:1437:LEU:HD11	1:H:1481:ALA:HA	1.97	0.46
1:H:1476:THR:HB	1:H:1480:HIS:HE1	1.80	0.46
1:H:1531:THR:O	1:H:1534:THR:OG1	2.21	0.46
1:H:1857:THR:CG2	1:H:1861:ARG:HB2	2.46	0.46
1:A:1051:HIS:CE1	1:A:1053:HIS:HB2	2.51	0.46
1:A:1453:GLU:CD	1:A:1454:GLU:HG2	2.41	0.46
1:A:1784:HIS:O	1:A:1788:GLU:OE1	2.34	0.46
1:C:574:VAL:HG22	1:C:635:PHE:CE1	2.51	0.46
1:C:576:TYR:CE2	1:C:631:HIS:HB3	2.51	0.46
1:C:803:GLY:HA2	1:C:806:GLU:OE1	2.16	0.46
1:C:1503:LYS:O	1:C:1506:VAL:HG12	2.16	0.46
1:D:628:THR:HB	1:D:631:HIS:ND1	2.31	0.46
1:D:726:LYS:O	1:D:730:LEU:HD13	2.15	0.46
1:D:741:PHE:CB	1:D:748:LEU:HD12	2.46	0.46
1:D:1051:HIS:CE1	1:D:1057:LEU:HD11	2.52	0.46
1:D:1115:THR:O	1:D:1119:LEU:HG	2.14	0.46
1:B:249:ARG:HG2	1:B:837:HIS:HE1	1.81	0.46
1:B:666:ARG:HB3	1:B:744:LYS:NZ	2.31	0.46
1:B:982:ARG:O	1:B:984:HIS:N	2.49	0.46
1:B:1409:ARG:HD2	1:B:1413:LEU:CG	2.45	0.46
1:B:1466:LEU:HD13	1:B:1485:LEU:HD23	1.98	0.46
1:B:1492:ASN:HD22	1:B:1502:VAL:HG23	1.79	0.46
1:B:1722:LYS:HA	1:B:1722:LYS:HD2	1.78	0.46
1:B:1779:LEU:HA	1:B:1782:ILE:HG22	1.97	0.46
1:B:1784:HIS:O	1:B:1788:GLU:OE1	2.34	0.46
1:B:1967:HIS:HB3	1:B:1971:ARG:HH21	1.80	0.46
1:E:244:VAL:HG12	1:E:1047:ILE:HG12	1.97	0.46
1:E:1418:LYS:O	1:E:1421:LEU:HG	2.15	0.46
1:E:1751:TYR:CZ	1:E:1847:LEU:HD12	2.51	0.46
1:F:750:GLU:OE1	1:F:750:GLU:N	2.47	0.46
1:F:1499:PHE:CE2	1:F:1503:LYS:HE3	2.51	0.46
1:F:1539:ASP:O	1:F:1543:ARG:HG2	2.15	0.46
1:F:1838:VAL:HG21	1:G:1718:ARG:CD	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:628:THR:HG22	1:G:629:GLU:N	2.24	0.46
1:G:699:TRP:HB2	1:G:702:GLY:HA2	1.97	0.46
1:G:773:VAL:HA	1:G:776:SER:HB3	1.97	0.46
1:G:2014:LEU:HD23	1:G:2017:LEU:HD12	1.98	0.46
1:H:1010:ARG:HG2	1:H:1057:LEU:HD22	1.98	0.46
1:H:1699:LEU:HB3	1:H:1702:ALA:HB3	1.97	0.46
1:A:154:PHE:O	1:A:158:ALA:HB3	2.16	0.45
1:A:575:GLN:HG3	1:A:577:MET:HE3	1.97	0.45
1:A:951:ARG:NH2	1:A:958:LEU:HG	2.30	0.45
1:A:1022:LYS:HB3	1:D:758:ARG:HH22	1.81	0.45
1:A:1093:VAL:HA	1:A:1096:MET:SD	2.56	0.45
1:A:1114:LEU:HG	1:A:1168:LEU:HD21	1.97	0.45
1:A:1513:LEU:HD12	1:A:1517:THR:HB	1.98	0.45
1:A:1550:GLN:HA	1:A:1553:ASP:OD2	2.15	0.45
1:A:1757:TYR:CE1	1:A:1766:GLU:HG3	2.50	0.45
1:C:1283:ARG:HA	1:C:1283:ARG:NE	2.31	0.45
1:C:1421:LEU:O	1:C:1424:LEU:HG	2.15	0.45
1:C:1700:TYR:CD1	1:C:1736:LYS:HD2	2.51	0.45
1:C:1830:ASP:CG	1:C:1831:THR:H	2.24	0.45
1:C:1954:LEU:HD23	1:C:1967:HIS:CD2	2.50	0.45
1:D:137:VAL:HG23	1:D:145:ARG:HH22	1.81	0.45
1:D:250:PRO:HG2	1:D:838:TYR:HE2	1.80	0.45
1:D:284:TYR:CD1	1:D:291:LYS:HA	2.45	0.45
1:D:623:LEU:HG	1:D:624:PRO:O	2.16	0.45
1:D:1018:ARG:NH1	1:D:1019:ALA:HB2	2.32	0.45
1:D:1421:LEU:O	1:D:1465:ARG:NH1	2.49	0.45
1:D:1707:TYR:O	1:D:1711:ILE:HG13	2.16	0.45
1:B:127:TYR:HA	1:B:129:TYR:CE1	2.50	0.45
1:B:244:VAL:HG12	1:B:1047:ILE:HG12	1.98	0.45
1:B:275:GLU:H	1:B:344:LYS:NZ	2.14	0.45
1:B:342:LEU:HB3	1:B:394:PHE:HD2	1.81	0.45
1:B:460:PHE:CG	1:B:489:LEU:HB3	2.51	0.45
1:B:559:ASN:OD1	1:B:561:SER:OG	2.22	0.45
1:B:1298:LYS:HB3	1:B:1302:ALA:HB2	1.97	0.45
1:B:1603:MET:HB3	1:B:1607:HIS:CE1	2.50	0.45
1:B:1767:GLN:HB3	1:B:1769:PHE:CE1	2.51	0.45
1:E:152:GLN:NE2	1:E:1429:SER:HB2	2.31	0.45
1:E:250:PRO:HG2	1:E:838:TYR:HE2	1.80	0.45
1:E:758:ARG:HH12	1:G:1022:LYS:C	2.24	0.45
1:E:1046:ARG:HH21	1:E:1047:ILE:CG1	2.29	0.45
1:E:1130:LEU:HD22	1:E:1133:LYS:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1387:GLU:HA	1:E:1390:LEU:HD12	1.98	0.45
1:E:1589:TYR:C	1:E:1596:ARG:HD3	2.42	0.45
1:E:1938:VAL:HG12	1:E:2010:LEU:HD21	1.98	0.45
1:E:1963:LEU:HB3	1:E:1967:HIS:HE1	1.79	0.45
1:F:286:VAL:HG22	1:F:473:PHE:CD1	2.50	0.45
1:F:810:HIS:O	1:F:813:SER:OG	2.32	0.45
1:F:1951:GLN:HG2	1:F:2017:LEU:HD11	1.98	0.45
1:G:1557:ASN:HA	1:G:1560:MET:HE3	1.97	0.45
1:G:1845:TYR:HD1	1:G:1883:PRO:HD2	1.81	0.45
1:G:1988:ASN:O	1:G:1992:ILE:HG12	2.16	0.45
1:H:86:LEU:HD23	1:H:124:HIS:HB3	1.98	0.45
1:H:140:ASP:O	1:H:143:ARG:HG2	2.16	0.45
1:H:1128:ALA:O	1:H:1131:LEU:HB2	2.17	0.45
1:H:1494:GLU:HB2	1:H:1495:ILE:HD12	1.98	0.45
1:H:1530:LYS:O	1:H:1533:LEU:HB2	2.15	0.45
1:H:1777:THR:HA	1:H:1781:GLU:OE1	2.16	0.45
1:A:739:PHE:HD2	1:A:740:PRO:HA	1.81	0.45
1:A:765:ARG:C	1:A:766:LEU:HD22	2.42	0.45
1:A:932:TRP:CD2	1:A:933:PHE:N	2.84	0.45
1:A:1046:ARG:HE	1:A:1047:ILE:HG13	1.81	0.45
1:A:1622:HIS:HB3	1:A:1657:GLU:HG3	1.98	0.45
1:A:1717:HIS:O	1:A:1718:ARG:HG2	2.16	0.45
1:A:1731:GLN:NE2	1:B:1727:HIS:CE1	2.84	0.45
1:C:907:LEU:O	1:C:908:LEU:C	2.60	0.45
1:C:1496:GLY:C	1:C:1498:ASN:H	2.25	0.45
1:C:1958:PRO:HD2	1:C:2022:LEU:HD13	1.99	0.45
1:C:2002:GLU:HA	1:C:2005:ARG:NE	2.31	0.45
1:D:125:ARG:CB	1:D:128:GLN:HB2	2.46	0.45
1:D:741:PHE:HB3	1:D:742:ARG:H	1.64	0.45
1:D:840:PHE:HB3	1:D:940:LYS:NZ	2.31	0.45
1:D:1486:TYR:HB2	1:D:1532:ILE:HG23	1.98	0.45
1:D:1580:ASP:O	1:D:1583:TYR:HB3	2.17	0.45
1:D:1683:LEU:O	1:D:1687:LEU:HG	2.16	0.45
1:B:587:PRO:HD3	1:B:600:ARG:NH1	2.31	0.45
1:B:634:LEU:HA	1:B:658:TRP:HA	1.98	0.45
1:B:805:PHE:CE2	1:B:915:GLN:HG2	2.51	0.45
1:B:1014:PHE:CE1	1:B:1109:LEU:HD11	2.51	0.45
1:B:1597:LEU:HD12	1:B:1627:VAL:HG21	1.98	0.45
1:B:1698:GLY:HA2	1:B:1700:TYR:CZ	2.52	0.45
1:B:1826:GLU:N	1:B:1851:LEU:O	2.46	0.45
1:E:88:GLN:HE22	1:E:122:ILE:HB	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:552:TYR:HB3	1:E:554:TYR:CZ	2.51	0.45
1:E:666:ARG:NE	1:E:667:LEU:O	2.48	0.45
1:E:998:ALA:HB2	1:E:1044:PHE:CD1	2.52	0.45
1:E:1455:ASP:OD1	1:E:1676:LYS:NZ	2.43	0.45
1:E:1623:ALA:O	1:E:1627:VAL:HG23	2.16	0.45
1:E:1681:LEU:HA	1:E:1684:VAL:HG22	1.97	0.45
1:E:1700:TYR:HD2	1:E:1746:ARG:NH1	2.15	0.45
1:E:1778:LYS:H	1:E:1781:GLU:CD	2.18	0.45
1:E:1828:TYR:N	1:E:1850:PHE:HA	2.30	0.45
1:F:508:HIS:HA	1:F:520:PRO:HD2	1.98	0.45
1:F:1128:ALA:HB1	1:F:1131:LEU:HB2	1.98	0.45
1:F:1472:SER:OG	1:F:1473:ARG:N	2.49	0.45
1:F:1595:LEU:HB3	1:F:1599:TRP:HZ3	1.80	0.45
1:F:1627:VAL:C	1:F:1683:LEU:HD21	2.42	0.45
1:G:573:ARG:NH2	1:G:636:THR:OG1	2.49	0.45
1:G:783:LEU:O	1:G:787:VAL:HG23	2.15	0.45
1:G:932:TRP:H	1:G:932:TRP:CD1	2.33	0.45
1:G:1518:GLN:HB3	1:G:1569:LYS:HE3	1.97	0.45
1:G:1647:PHE:HB3	1:G:1654:VAL:HG21	1.98	0.45
1:H:282:ALA:O	1:H:339:VAL:N	2.47	0.45
1:H:898:GLU:O	1:H:902:ILE:HG13	2.16	0.45
1:H:1934:LEU:HD23	1:H:2003:LEU:HD13	1.98	0.45
1:A:552:TYR:O	1:A:711:LEU:HD12	2.16	0.45
1:A:581:ASP:OD2	1:A:583:SER:OG	2.30	0.45
1:A:1468:ARG:HA	1:A:1520:PHE:HZ	1.81	0.45
1:A:1711:ILE:HD11	1:B:1708:LYS:HE2	1.98	0.45
1:C:997:LEU:O	1:C:1000:PHE:HB3	2.16	0.45
1:C:1559:HIS:HA	1:C:1562:LEU:HD12	1.98	0.45
1:C:1801:ILE:HA	1:C:1820:ILE:O	2.15	0.45
1:C:1934:LEU:HD13	1:C:1984:ALA:HB3	1.98	0.45
1:D:669:THR:CB	1:D:711:LEU:HD22	2.46	0.45
1:D:932:TRP:CG	1:D:933:PHE:H	2.33	0.45
1:D:1160:ARG:NE	1:D:1163:GLU:OE2	2.47	0.45
1:D:1778:LYS:HB3	1:D:1781:GLU:CD	2.41	0.45
1:B:549:ASN:OD1	1:B:715:SER:HA	2.16	0.45
1:B:1265:GLU:OE2	1:B:1267:ALA:HB3	2.16	0.45
1:B:1462:LEU:O	1:B:1466:LEU:HG	2.17	0.45
1:B:1701:GLU:HG3	1:B:1841:PHE:CD2	2.52	0.45
1:E:753:VAL:O	1:E:756:GLU:HG3	2.16	0.45
1:E:761:LEU:HA	1:E:764:LEU:HD23	1.98	0.45
1:E:1246:SER:OG	1:E:1249:SER:OG	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1272:TRP:CZ2	1:E:1276:LEU:HD13	2.51	0.45
1:E:1459:CYS:O	1:E:1462:LEU:HB3	2.17	0.45
1:E:1573:GLU:HG3	1:E:1793:ARG:HH12	1.82	0.45
1:E:1938:VAL:O	1:E:2009:ARG:NH2	2.49	0.45
1:F:1615:GLU:HB2	1:F:1885:ILE:C	2.42	0.45
1:G:109:VAL:HG12	1:G:717:VAL:HG21	1.97	0.45
1:G:284:TYR:HA	1:G:292:ILE:HG12	1.99	0.45
1:G:286:VAL:HG21	1:G:476:LEU:HB3	1.97	0.45
1:G:780:LEU:O	1:G:784:VAL:HG23	2.16	0.45
1:G:1958:PRO:HG3	1:G:1967:HIS:ND1	2.31	0.45
1:H:942:MET:HE1	1:H:1007:LEU:HB3	1.98	0.45
1:H:972:VAL:HG11	1:H:1000:PHE:HE2	1.80	0.45
1:H:1680:GLU:HG2	1:H:1681:LEU:N	2.32	0.45
1:A:276:PRO:HD3	1:A:308:LEU:HD13	1.99	0.45
1:A:285:ASP:HA	1:A:336:ILE:HA	1.98	0.45
1:A:649:ALA:HB3	1:A:652:THR:HG22	1.98	0.45
1:A:1288:LEU:HB3	1:A:1392:VAL:HG13	1.99	0.45
1:A:1630:TYR:CE1	1:A:1665:LEU:HD21	2.51	0.45
1:A:1720:TYR:HE2	1:B:1738:MET:HG3	1.81	0.45
1:A:1769:PHE:CD2	1:A:1888:ARG:HG2	2.52	0.45
1:A:1851:LEU:HD12	1:A:1852:PHE:H	1.82	0.45
1:C:123:VAL:HG23	1:C:123:VAL:O	2.17	0.45
1:C:257:PHE:HB3	1:C:258:GLY:O	2.16	0.45
1:C:916:TRP:CH2	1:C:931:ALA:HB1	2.51	0.45
1:C:1025:ALA:HA	1:C:1028:LEU:CD1	2.46	0.45
1:C:1283:ARG:NH2	1:C:1286:ASP:HB2	2.31	0.45
1:C:1560:MET:SD	1:E:1965:ARG:HB3	2.57	0.45
1:C:1750:THR:O	1:C:1772:LYS:HA	2.17	0.45
1:D:120:TRP:HZ3	1:D:839:ALA:HB2	1.81	0.45
1:D:790:PRO:CB	1:D:798:VAL:HB	2.45	0.45
1:B:1158:LYS:O	1:B:1263:ASN:ND2	2.41	0.45
1:B:1703:VAL:O	1:B:1706:VAL:HG12	2.16	0.45
1:E:1569:LYS:HA	1:E:1569:LYS:HD2	1.73	0.45
1:E:1720:TYR:CD2	1:H:1738:MET:HE3	2.52	0.45
1:G:1503:LYS:HZ1	1:G:1554:LEU:HB2	1.82	0.45
1:G:1727:HIS:O	1:G:1731:GLN:HG2	2.16	0.45
1:G:1756:PHE:HD1	1:G:1761:PHE:CZ	2.34	0.45
1:H:816:HIS:O	1:H:820:GLU:HG3	2.16	0.45
1:H:1490:ARG:NH1	1:H:1494:GLU:OE2	2.50	0.45
1:H:1826:GLU:O	1:H:1851:LEU:N	2.41	0.45
1:A:546:SER:OG	1:A:548:ARG:NH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:567:VAL:HA	1:A:639:HIS:CE1	2.52	0.45
1:A:663:GLN:O	1:A:744:LYS:HE3	2.16	0.45
1:A:775:PHE:O	1:A:778:HIS:HB2	2.17	0.45
1:A:1402:THR:OG1	1:A:1403:VAL:HG23	2.17	0.45
1:A:1598:THR:HA	1:A:1601:GLN:OE1	2.16	0.45
1:C:250:PRO:HG2	1:C:838:TYR:HE2	1.82	0.45
1:C:253:PRO:HD3	1:C:838:TYR:CG	2.52	0.45
1:C:297:TYR:C	1:C:593:SER:HB3	2.41	0.45
1:C:306:LYS:HB3	1:C:310:ARG:HH21	1.82	0.45
1:C:307:GLY:HA2	1:C:310:ARG:HG2	1.98	0.45
1:C:312:HIS:CE1	1:C:389:ARG:H	2.34	0.45
1:C:607:VAL:HG12	1:C:610:ASN:HB2	1.99	0.45
1:C:994:ASN:ND2	1:C:1040:LEU:HD12	2.30	0.45
1:C:1406:SER:OG	1:C:1407:GLU:N	2.48	0.45
1:C:1700:TYR:CG	1:C:1736:LYS:HD2	2.52	0.45
1:C:1714:LEU:HA	1:C:1717:HIS:HD2	1.80	0.45
1:C:1788:GLU:O	1:C:1791:THR:HB	2.17	0.45
1:D:294:GLU:HB2	1:D:532:ILE:HG23	1.99	0.45
1:D:312:HIS:ND1	1:D:389:ARG:HB2	2.31	0.45
1:D:478:ASP:OD2	1:D:483:SER:OG	2.29	0.45
1:D:1292:LEU:HD11	1:D:1389:SER:HA	1.97	0.45
1:D:1300:LYS:NZ	1:D:1374:MET:HB3	2.32	0.45
1:D:2019:THR:C	1:D:2021:ARG:HH21	2.25	0.45
1:B:90:ARG:NH1	1:B:118:GLU:O	2.48	0.45
1:B:116:TYR:CZ	1:B:778:HIS:HE1	2.35	0.45
1:B:631:HIS:HB3	1:B:661:LEU:HD12	1.99	0.45
1:B:836:VAL:HA	1:B:840:PHE:HB2	1.97	0.45
1:B:1001:LEU:O	1:B:1004:LEU:HB2	2.16	0.45
1:B:1565:THR:HA	1:B:1568:MET:HG3	1.98	0.45
1:B:1630:TYR:CE1	1:B:1665:LEU:HD11	2.51	0.45
1:B:1870:HIS:CE1	1:B:1901:PRO:HD3	2.51	0.45
1:E:301:ASN:HA	1:E:305:MET:HE3	1.98	0.45
1:E:663:GLN:HG2	1:E:664:HIS:HD2	1.82	0.45
1:E:927:ILE:O	1:E:931:ALA:CB	2.55	0.45
1:E:1409:ARG:HH11	1:E:1413:LEU:HD11	1.81	0.45
1:E:1486:TYR:OH	1:E:1536:ALA:HA	2.16	0.45
1:E:1593:PRO:HD2	1:E:1672:PHE:CE1	2.52	0.45
1:E:1712:PRO:HA	1:E:1715:GLU:HB3	1.97	0.45
1:E:1769:PHE:CD2	1:E:1888:ARG:HD2	2.51	0.45
1:E:1833:GLU:HA	1:E:1836:ASP:OD2	2.17	0.45
1:F:55:ASP:O	1:F:59:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:579:GLY:HA2	1:F:630:ASN:HB3	1.99	0.45
1:F:1267:ALA:O	1:F:1271:ARG:HG3	2.16	0.45
1:F:1623:ALA:O	1:F:1627:VAL:HG23	2.14	0.45
1:F:1686:LEU:HA	1:F:1689:GLN:HG3	1.98	0.45
1:G:634:LEU:HD12	1:G:657:THR:O	2.17	0.45
1:G:733:VAL:HA	1:G:736:GLU:HB3	1.98	0.45
1:G:1681:LEU:HA	1:G:1684:VAL:HG22	1.98	0.45
1:G:1702:ALA:O	1:G:1706:VAL:HG23	2.17	0.45
1:H:393:PRO:HG3	1:H:466:ARG:CZ	2.47	0.45
1:H:639:HIS:HB3	1:H:652:THR:OG1	2.16	0.45
1:H:1053:HIS:HB3	1:H:1056:THR:HB	1.98	0.45
1:H:1615:GLU:HG2	1:H:1616:ALA:N	2.32	0.45
1:H:1709:ASN:O	1:H:1713:ILE:HG13	2.17	0.45
1:H:1789:PHE:O	1:H:1792:GLU:HG3	2.15	0.45
1:A:223:ARG:NH1	1:A:227:ARG:HH22	2.02	0.45
1:A:630:ASN:OD1	1:A:630:ASN:N	2.50	0.45
1:A:726:LYS:O	1:A:727:PHE:C	2.60	0.45
1:A:805:PHE:CE2	1:A:915:GLN:HG2	2.51	0.45
1:A:1008:VAL:HG22	1:A:1009:ASP:N	2.31	0.45
1:A:1144:CYS:O	1:A:1148:THR:HG23	2.16	0.45
1:A:1576:GLU:HB3	1:A:1886:LYS:NZ	2.32	0.45
1:A:1777:THR:HG23	1:A:1781:GLU:HB2	1.97	0.45
1:A:1790:TYR:HD1	1:A:1794:PHE:HE2	1.63	0.45
1:A:1893:HIS:CE1	1:A:1895:GLU:HB3	2.51	0.45
1:C:320:THR:OG1	1:C:595:CYS:O	2.33	0.45
1:C:579:GLY:O	1:C:632:HIS:HE1	1.99	0.45
1:C:898:GLU:HA	1:C:901:ARG:HG2	1.98	0.45
1:C:1029:GLN:HG2	1:C:1030:SER:N	2.31	0.45
1:C:1586:ALA:O	1:C:1596:ARG:HD3	2.17	0.45
1:C:1600:LEU:HD12	1:C:1619:CYS:HB3	1.98	0.45
1:D:81:ASP:C	1:D:126:ARG:HH21	2.25	0.45
1:D:109:VAL:O	1:D:113:VAL:HG23	2.16	0.45
1:D:1096:MET:HA	1:D:1103:PHE:HD2	1.81	0.45
1:D:1471:GLY:HA3	1:D:1520:PHE:HD1	1.82	0.45
1:D:1608:ALA:HA	1:D:1613:HIS:CD2	2.51	0.45
1:B:90:ARG:NH1	1:B:115:MET:O	2.50	0.45
1:B:661:LEU:C	1:B:668:ARG:HE	2.25	0.45
1:B:781:ASP:HB3	1:B:782:LYS:HZ3	1.81	0.45
1:B:1035:ALA:O	1:B:1039:THR:OG1	2.23	0.45
1:B:1170:SER:O	1:B:1173:ARG:HB3	2.17	0.45
1:B:1438:ALA:HA	1:B:1441:ARG:HE	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1703:VAL:HA	1:B:1706:VAL:HG12	1.98	0.45
1:E:835:TYR:HA	1:E:839:ALA:HB3	1.97	0.45
1:E:1144:CYS:O	1:E:1148:THR:HG23	2.17	0.45
1:E:1154:GLU:HB3	1:E:1157:VAL:HB	1.98	0.45
1:E:1800:GLU:O	1:E:1820:ILE:N	2.42	0.45
1:F:250:PRO:HG2	1:F:838:TYR:CE2	2.51	0.45
1:F:261:ILE:HD12	1:F:327:PHE:HB2	1.98	0.45
1:F:1028:LEU:HD23	1:F:1037:LEU:HD23	1.98	0.45
1:F:1278:LEU:N	1:F:1279:PRO:HD2	2.32	0.45
1:F:1838:VAL:HG13	1:F:1839:THR:HG23	1.99	0.45
1:G:242:GLU:O	1:G:1046:ARG:NH1	2.50	0.45
1:G:719:PRO:HD2	1:G:725:ASP:OD1	2.16	0.45
1:G:790:PRO:HD3	1:G:906:LYS:HG3	1.98	0.45
1:G:1613:HIS:NE2	1:G:1696:MET:HE2	2.31	0.45
1:H:120:TRP:CZ3	1:H:839:ALA:HB2	2.51	0.45
1:H:217:ARG:HD2	1:H:218:ARG:N	2.31	0.45
1:H:336:ILE:HD13	1:H:446:PHE:CZ	2.52	0.45
1:H:747:VAL:O	1:H:752:ASN:ND2	2.49	0.45
1:H:1157:VAL:HG13	1:H:1160:ARG:HH21	1.81	0.45
1:H:1167:PRO:O	1:H:1171:ILE:HD12	2.17	0.45
1:A:344:LYS:HB2	1:A:394:PHE:HB2	1.97	0.45
1:A:780:LEU:HD12	1:A:781:ASP:N	2.32	0.45
1:A:1661:SER:OG	1:A:1664:ILE:HG13	2.17	0.45
1:A:1711:ILE:O	1:A:1715:GLU:HB3	2.16	0.45
1:A:1723:LEU:HB3	1:B:1734:PHE:CZ	2.46	0.45
1:C:567:VAL:HG22	1:C:639:HIS:CD2	2.52	0.45
1:C:654:VAL:O	1:C:678:VAL:HG22	2.17	0.45
1:C:1568:MET:HG2	1:C:1578:LEU:HD11	1.98	0.45
1:C:1721:LYS:HD2	1:D:1738:MET:CE	2.47	0.45
1:C:1958:PRO:HB3	1:C:1963:LEU:HB2	1.99	0.45
1:C:1974:PHE:CD1	1:C:2014:LEU:HD13	2.52	0.45
1:D:1285:LEU:HD11	1:D:1399:ILE:HD13	1.99	0.45
1:B:83:LEU:HD23	1:B:125:ARG:HA	1.98	0.45
1:B:731:VAL:HA	1:B:734:LEU:HD12	1.98	0.45
1:B:803:GLY:HA2	1:B:806:GLU:CD	2.42	0.45
1:B:1023:GLN:O	1:B:1026:THR:HB	2.17	0.45
1:B:1396:LEU:O	1:B:1400:VAL:HG23	2.17	0.45
1:B:1437:LEU:HD21	1:B:1484:SER:HB3	1.98	0.45
1:B:1700:TYR:O	1:B:1703:VAL:HB	2.17	0.45
1:B:1701:GLU:O	1:B:1704:ASN:HB3	2.17	0.45
1:B:1829:PHE:HD1	1:B:1833:GLU:HG2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:265:CYS:O	1:E:323:ARG:HD3	2.16	0.45
1:E:1725:ALA:HB1	1:E:1729:LYS:NZ	2.31	0.45
1:E:1817:LYS:HB3	1:E:1819:TYR:CE2	2.52	0.45
1:E:1838:VAL:O	1:E:1843:ARG:NH2	2.50	0.45
1:E:1853:CYS:HA	1:E:1872:ARG:O	2.17	0.45
1:F:632:HIS:HB2	1:F:659:ILE:O	2.17	0.45
1:F:1129:PHE:HB2	1:F:1133:LYS:NZ	2.31	0.45
1:F:1474:ILE:O	1:F:1478:ARG:HG3	2.16	0.45
1:F:1580:ASP:O	1:F:1584:ARG:HG3	2.16	0.45
1:F:1597:LEU:HD23	1:F:1601:GLN:NE2	2.24	0.45
1:G:693:ALA:HB1	1:G:699:TRP:CZ2	2.52	0.45
1:G:1054:TYR:C	1:G:1058:ASN:HD22	2.24	0.45
1:G:1557:ASN:HA	1:G:1560:MET:CE	2.46	0.45
1:G:1686:LEU:HA	1:G:1689:GLN:HG3	1.98	0.45
1:G:1908:ASP:O	1:G:1911:LYS:HB3	2.16	0.45
1:H:466:ARG:HD2	1:H:614:GLU:C	2.42	0.45
1:H:1719:ASP:HA	1:H:1721:LYS:NZ	2.32	0.45
1:H:1746:ARG:HD2	1:H:1746:ARG:HA	1.85	0.45
1:H:1756:PHE:HB3	1:H:1761:PHE:CD2	2.51	0.45
1:A:269:LYS:HA	1:A:269:LYS:HD2	1.76	0.45
1:A:742:ARG:H	1:A:742:ARG:HD3	1.82	0.45
1:A:1150:PRO:HG2	1:A:1151:ARG:NH2	2.32	0.45
1:A:1644:CYS:SG	1:A:1655:LEU:HD23	2.57	0.45
1:C:514:GLU:OE2	1:C:548:ARG:HG3	2.16	0.45
1:C:1615:GLU:HA	1:C:1618:GLN:OE1	2.16	0.45
1:C:1758:GLY:HA3	1:C:1761:PHE:HE2	1.81	0.45
1:C:1851:LEU:HD12	1:C:1852:PHE:H	1.82	0.45
1:D:775:PHE:HA	1:D:778:HIS:HD2	1.81	0.45
1:D:1121:LEU:HD13	1:D:1132:HIS:CD2	2.39	0.45
1:D:1600:LEU:O	1:D:1603:MET:HB2	2.17	0.45
1:D:1705:GLU:HG3	1:D:1708:LYS:HD3	1.99	0.45
1:B:608:TYR:CE2	1:B:609:HIS:HB2	2.52	0.45
1:B:634:LEU:HD13	1:B:658:TRP:HB3	1.98	0.45
1:B:1587:ARG:NH1	1:B:1656:GLU:O	2.50	0.45
1:B:1770:VAL:O	1:B:1888:ARG:HA	2.17	0.45
1:E:976:GLY:O	1:E:977:LEU:C	2.59	0.45
1:E:986:ASP:OD1	1:E:987:VAL:N	2.50	0.45
1:E:1112:LEU:O	1:E:1116:GLU:OE1	2.35	0.45
1:E:1473:ARG:NH2	1:E:1519:ASN:O	2.42	0.45
1:F:1031:SER:O	1:F:1034:PRO:HD3	2.17	0.45
1:F:1710:LEU:HA	1:F:1713:ILE:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1830:ASP:HB2	1:F:1833:GLU:CD	2.42	0.45
1:F:1931:GLN:HB3	1:F:1999:TYR:CE2	2.52	0.45
1:F:1992:ILE:HG21	1:F:1996:GLN:HB2	1.99	0.45
1:G:281:LEU:HB2	1:G:296:PHE:HD2	1.81	0.45
1:G:706:VAL:O	1:G:706:VAL:HG12	2.17	0.45
1:G:1021:TYR:CZ	1:G:1112:LEU:HD21	2.51	0.45
1:G:1101:GLY:O	1:G:1105:GLN:HG3	2.17	0.45
1:G:1595:LEU:HD12	1:G:1599:TRP:HZ3	1.81	0.45
1:H:95:THR:HG22	1:H:519:LYS:HG2	1.97	0.45
1:H:1873:LYS:HB2	1:H:1897:THR:OG1	2.17	0.45
1:A:920:SER:O	1:A:924:ARG:HD3	2.17	0.45
1:A:998:ALA:O	1:A:999:PHE:C	2.58	0.45
1:A:1024:VAL:HG22	1:A:1041:ARG:CZ	2.47	0.45
1:A:1580:ASP:OD1	1:A:1584:ARG:HD3	2.17	0.45
1:C:753:VAL:HG13	1:C:754:GLU:H	1.81	0.45
1:C:1028:LEU:O	1:C:1031:SER:HB3	2.17	0.45
1:C:1847:LEU:N	1:C:1882:PHE:O	2.41	0.45
1:D:1056:THR:O	1:D:1060:PRO:HD3	2.16	0.45
1:D:1248:GLU:OE1	1:D:1248:GLU:N	2.27	0.45
1:D:1510:LEU:O	1:D:1514:VAL:HG22	2.16	0.45
1:D:1568:MET:HG2	1:D:1578:LEU:HD11	1.99	0.45
1:D:1965:ARG:HD3	1:H:1560:MET:HE2	1.99	0.45
1:B:227:ARG:HH21	1:B:1391:VAL:HG12	1.80	0.45
1:B:678:VAL:H	1:B:698:ARG:HD2	1.82	0.45
1:B:909:HIS:HA	1:B:912:LEU:HD23	1.99	0.45
1:B:912:LEU:CA	1:B:915:GLN:HE21	2.27	0.45
1:B:1040:LEU:HA	1:B:1043:GLU:OE1	2.16	0.45
1:B:1110:ALA:O	1:B:1113:LEU:HB2	2.17	0.45
1:B:1424:LEU:HD21	1:B:1436:GLY:HA3	1.98	0.45
1:B:1723:LEU:HA	1:B:1726:VAL:HG22	1.98	0.45
1:E:95:THR:HG22	1:E:519:LYS:HG2	1.99	0.45
1:E:129:TYR:HA	1:E:134:TYR:HB3	1.98	0.45
1:E:264:LYS:O	1:E:498:ILE:HG13	2.17	0.45
1:E:1036:ALA:O	1:E:1040:LEU:HG	2.16	0.45
1:E:1618:GLN:NE2	1:E:1883:PRO:O	2.50	0.45
1:E:1625:ALA:N	1:E:1647:PHE:HE2	2.15	0.45
1:E:1751:TYR:CD2	1:E:1850:PHE:HE1	2.35	0.45
1:E:1855:PRO:HA	1:E:1871:LYS:HA	1.98	0.45
1:F:513:PRO:HG3	1:F:531:GLU:O	2.17	0.45
1:F:915:GLN:HE22	1:F:916:TRP:CD1	2.35	0.45
1:F:1770:VAL:O	1:F:1888:ARG:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1916:LEU:HD11	1:F:1934:LEU:HD13	1.99	0.45
1:G:107:ALA:HB3	1:G:732:HIS:CD2	2.52	0.45
1:G:120:TRP:CE3	1:G:838:TYR:HB3	2.51	0.45
1:G:574:VAL:HG22	1:G:635:PHE:CE1	2.52	0.45
1:G:954:THR:O	1:G:959:ARG:NE	2.41	0.45
1:G:1951:GLN:O	1:G:1955:ALA:HB3	2.16	0.45
1:H:203:LEU:HD11	1:H:1479:THR:HB	1.98	0.45
1:H:319:SER:HB2	1:H:511:LEU:HD11	1.98	0.45
1:H:659:ILE:HD11	1:H:707:PHE:HE2	1.82	0.45
1:H:1498:ASN:O	1:H:1501:ARG:HG2	2.16	0.45
1:A:50:VAL:HG12	1:A:51:VAL:H	1.81	0.45
1:A:284:TYR:CG	1:A:291:LYS:HA	2.52	0.45
1:A:445:SER:HG	1:A:446:PHE:H	1.61	0.45
1:A:553:VAL:HG22	1:A:711:LEU:HD13	1.99	0.45
1:A:739:PHE:HE2	1:A:748:LEU:HB3	1.82	0.45
1:A:1449:GLU:H	1:A:1449:GLU:CD	2.25	0.45
1:C:663:GLN:HG2	1:C:664:HIS:CE1	2.52	0.45
1:C:744:LYS:HG3	1:C:745:ASP:OD1	2.17	0.45
1:C:1934:LEU:HD21	1:C:1985:LEU:HG	1.99	0.45
1:D:282:ALA:HB3	1:D:284:TYR:OH	2.17	0.45
1:D:455:THR:OG1	1:D:497:LYS:NZ	2.27	0.45
1:D:560:PHE:HE1	1:D:700:VAL:HG21	1.82	0.45
1:D:571:ALA:HB1	1:D:603:PHE:CD2	2.52	0.45
1:D:742:ARG:HD3	1:D:742:ARG:N	2.32	0.45
1:D:840:PHE:HZ	1:D:842:LEU:HD12	1.82	0.45
1:D:1001:LEU:HD12	1:D:1044:PHE:HE1	1.82	0.45
1:D:1113:LEU:HD21	1:D:1139:VAL:HG23	1.99	0.45
1:D:1142:LEU:HD12	1:D:1146:HIS:HE1	1.81	0.45
1:D:1285:LEU:HD21	1:D:1399:ILE:HD13	1.99	0.45
1:D:1893:HIS:CE1	1:H:1892:CYS:HA	2.52	0.45
1:B:55:ASP:CG	1:B:58:ASP:HB3	2.41	0.45
1:B:320:THR:HB	1:B:593:SER:HA	1.98	0.45
1:B:478:ASP:HB3	1:B:486:LEU:HD11	1.98	0.45
1:B:634:LEU:HD12	1:B:657:THR:C	2.42	0.45
1:B:1482:SER:HA	1:B:1485:LEU:HD12	1.99	0.45
1:B:1576:GLU:O	1:B:1886:LYS:HE2	2.17	0.45
1:B:1874:THR:HG23	1:B:1896:GLU:HG3	1.98	0.45
1:B:1911:LYS:O	1:B:1914:ARG:HG3	2.17	0.45
1:E:1572:GLN:NE2	1:E:1573:GLU:OE1	2.50	0.45
1:E:1625:ALA:HB2	1:E:1647:PHE:HD2	1.82	0.45
1:E:1858:PRO:HD3	1:E:1868:GLU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1936:GLY:O	1:E:1940:PRO:HB3	2.17	0.45
1:F:481:ARG:HH22	1:F:483:SER:HB3	1.82	0.45
1:F:486:LEU:HD23	1:F:486:LEU:HA	1.84	0.45
1:G:219:ASN:O	1:G:223:ARG:HG3	2.17	0.45
1:G:312:HIS:O	1:G:389:ARG:NH2	2.47	0.45
1:G:1133:LYS:HD2	1:G:1136:ILE:HD11	1.99	0.45
1:H:391:ARG:HD3	1:H:391:ARG:HA	1.73	0.45
1:H:550:LEU:HA	1:H:621:LEU:O	2.17	0.45
1:H:570:LEU:HD13	1:H:637:PHE:CE1	2.51	0.45
1:H:1473:ARG:HD2	1:H:1473:ARG:N	2.31	0.45
1:H:1606:LYS:O	1:H:1610:LEU:HG	2.17	0.45
1:A:513:PRO:HG3	1:A:531:GLU:O	2.16	0.44
1:A:783:LEU:HB3	1:A:808:MET:CE	2.43	0.44
1:A:1130:LEU:HD23	1:A:1133:LYS:HD2	1.98	0.44
1:C:113:VAL:O	1:C:117:ILE:HG12	2.17	0.44
1:C:658:TRP:CE2	1:C:685:TYR:HD2	2.34	0.44
1:C:742:ARG:N	1:C:742:ARG:HD3	2.32	0.44
1:C:1630:TYR:OH	1:C:1672:PHE:O	2.24	0.44
1:D:267:SER:O	1:D:496:LEU:HA	2.17	0.44
1:D:338:LEU:HD23	1:D:399:VAL:HG11	1.99	0.44
1:D:1042:MET:HE2	1:D:1134:LYS:HB3	1.99	0.44
1:D:1416:VAL:HG12	1:D:1417:LEU:HD22	2.00	0.44
1:D:1487:LEU:CD1	1:D:1491:GLN:HE22	2.30	0.44
1:D:1688:GLU:OE1	1:D:1722:LYS:NZ	2.49	0.44
1:B:275:GLU:H	1:B:344:LYS:HZ1	1.64	0.44
1:B:990:ALA:O	1:B:993:LEU:HB3	2.17	0.44
1:B:1535:TYR:HA	1:B:1538:GLU:CD	2.42	0.44
1:B:1595:LEU:HD12	1:B:1599:TRP:NE1	2.32	0.44
1:B:1600:LEU:O	1:B:1603:MET:HB2	2.17	0.44
1:B:1600:LEU:HD22	1:B:1619:CYS:O	2.17	0.44
1:B:1615:GLU:HB2	1:B:1885:ILE:HA	2.00	0.44
1:B:1764:LEU:O	1:B:1767:GLN:HG2	2.17	0.44
1:B:1830:ASP:OD1	1:B:1831:THR:N	2.40	0.44
1:B:1845:TYR:CD1	1:B:1883:PRO:HD2	2.52	0.44
1:E:961:PRO:HB3	1:E:963:ARG:NH2	2.32	0.44
1:E:1386:THR:O	1:E:1390:LEU:HG	2.17	0.44
1:E:1543:ARG:NE	1:E:1548:ALA:HB2	2.32	0.44
1:E:1594:ASP:O	1:E:1598:THR:HG23	2.17	0.44
1:E:1766:GLU:O	1:E:1890:ARG:NH1	2.50	0.44
1:E:1858:PRO:HG3	1:E:1870:HIS:HE1	1.80	0.44
1:F:83:LEU:HD22	1:F:123:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:111:ALA:O	1:F:115:MET:HG2	2.17	0.44
1:F:213:GLU:HA	1:F:216:ASP:OD2	2.18	0.44
1:F:734:LEU:HD21	1:F:757:LEU:HD11	1.99	0.44
1:F:816:HIS:CD2	1:F:932:TRP:HZ2	2.35	0.44
1:F:1481:ALA:O	1:F:1485:LEU:HG	2.17	0.44
1:F:1637:HIS:H	1:F:1640:LEU:HD21	1.81	0.44
1:F:1700:TYR:O	1:F:1703:VAL:HB	2.17	0.44
1:F:1711:ILE:HG23	1:F:1723:LEU:HD21	1.99	0.44
1:F:1919:ALA:HB1	1:F:1930:LEU:HA	1.98	0.44
1:G:111:ALA:HA	1:G:114:GLU:OE2	2.17	0.44
1:G:283:LEU:HD21	1:G:401:LEU:HD11	1.98	0.44
1:G:284:TYR:HD1	1:G:291:LYS:HA	1.81	0.44
1:G:512:SER:N	1:G:516:LEU:O	2.48	0.44
1:G:564:GLN:HG3	1:G:611:LYS:HZ2	1.82	0.44
1:G:924:ARG:O	1:G:928:LEU:HG	2.17	0.44
1:G:976:GLY:O	1:G:979:VAL:HG12	2.17	0.44
1:G:982:ARG:HE	1:G:986:ASP:HB3	1.80	0.44
1:G:1300:LYS:HD3	1:G:1300:LYS:HA	1.72	0.44
1:G:1701:GLU:O	1:G:1704:ASN:HB3	2.17	0.44
1:G:1837:ARG:HB3	1:G:1842:ASP:HB3	1.99	0.44
1:H:1042:MET:HE1	1:H:1134:LYS:O	2.16	0.44
1:H:1154:GLU:HB3	1:H:1157:VAL:HB	1.99	0.44
1:H:1580:ASP:CG	1:H:1584:ARG:HH21	2.24	0.44
1:A:82:ASP:C	1:A:83:LEU:HD23	2.42	0.44
1:A:83:LEU:HD22	1:A:125:ARG:HA	1.99	0.44
1:A:312:HIS:HE1	1:A:650:LEU:HD21	1.82	0.44
1:A:576:TYR:OH	1:A:631:HIS:HD2	1.99	0.44
1:A:634:LEU:HD12	1:A:657:THR:C	2.42	0.44
1:A:802:ARG:O	1:A:806:GLU:HG3	2.17	0.44
1:A:1006:SER:C	1:A:1007:LEU:HD22	2.43	0.44
1:C:938:MET:HG2	1:C:942:MET:HE1	2.00	0.44
1:C:1421:LEU:HD23	1:C:1424:LEU:HD21	1.99	0.44
1:C:1701:GLU:OE1	1:C:1701:GLU:N	2.30	0.44
1:D:282:ALA:O	1:D:338:LEU:HD12	2.17	0.44
1:D:925:GLU:HA	1:D:928:LEU:HD12	1.98	0.44
1:D:1018:ARG:HG2	1:D:1022:LYS:HZ2	1.82	0.44
1:D:1760:HIS:ND1	1:D:1798:VAL:HG11	2.33	0.44
1:D:1851:LEU:HD13	1:D:1875:LEU:HD22	1.99	0.44
1:B:55:ASP:OD1	1:B:55:ASP:N	2.50	0.44
1:B:290:LYS:O	1:B:292:ILE:HG23	2.17	0.44
1:B:815:VAL:C	1:B:818:SER:HG	2.24	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:912:LEU:HD12	1:B:915:GLN:HE22	1.79	0.44
1:B:1008:VAL:HG22	1:B:1009:ASP:N	2.31	0.44
1:B:1595:LEU:HD12	1:B:1599:TRP:HE1	1.82	0.44
1:B:1597:LEU:HG	1:B:1601:GLN:HE22	1.82	0.44
1:E:247:CYS:SG	1:E:826:ARG:NH1	2.90	0.44
1:E:563:ARG:NH2	1:E:567:VAL:HG11	2.32	0.44
1:E:743:LEU:HG	1:E:748:LEU:HD21	1.98	0.44
1:E:1934:LEU:O	1:E:1938:VAL:HG22	2.16	0.44
1:F:568:ARG:HH12	1:F:609:HIS:H	1.64	0.44
1:F:749:SER:OG	1:F:750:GLU:N	2.42	0.44
1:F:972:VAL:O	1:F:975:VAL:HG12	2.18	0.44
1:F:1734:PHE:CZ	1:G:1723:LEU:HD22	2.52	0.44
1:G:146:GLN:NE2	1:G:233:THR:O	2.50	0.44
1:G:213:GLU:HA	1:G:216:ASP:OD2	2.17	0.44
1:G:400:HIS:NE2	1:G:402:ALA:HB3	2.31	0.44
1:G:739:PHE:HE1	1:G:748:LEU:HG	1.81	0.44
1:G:979:VAL:O	1:G:983:VAL:HG13	2.17	0.44
1:G:1767:GLN:HG3	1:G:1890:ARG:CZ	2.48	0.44
1:H:723:TYR:CD2	1:H:767:ALA:HB2	2.52	0.44
1:H:901:ARG:HH21	1:H:905:SER:HB3	1.82	0.44
1:H:911:GLU:HB2	1:H:915:GLN:HE22	1.81	0.44
1:H:976:GLY:O	1:H:977:LEU:C	2.59	0.44
1:H:1300:LYS:HA	1:H:1300:LYS:HD3	1.70	0.44
1:H:1753:ARG:NH1	1:H:1821:GLN:HG3	2.31	0.44
1:H:1850:PHE:O	1:H:1875:LEU:HA	2.17	0.44
1:H:1954:LEU:HD23	1:H:1967:HIS:HB3	1.98	0.44
1:A:134:TYR:HE1	1:A:249:ARG:N	2.15	0.44
1:A:283:LEU:HA	1:A:337:PHE:O	2.17	0.44
1:A:331:TYR:CE2	1:A:538:ARG:HB2	2.52	0.44
1:A:653:PRO:HB2	1:A:656:PHE:CE1	2.52	0.44
1:A:815:VAL:O	1:A:819:LEU:HG	2.18	0.44
1:A:968:ILE:HG23	1:A:971:LEU:HD23	1.99	0.44
1:A:1630:TYR:CE1	1:A:1665:LEU:HD11	2.52	0.44
1:A:1687:LEU:HB2	1:A:1710:LEU:HD11	2.00	0.44
1:A:1711:ILE:HG13	1:A:1712:PRO:HD3	1.99	0.44
1:C:212:PRO:HA	1:C:215:VAL:HG22	1.99	0.44
1:C:277:ILE:HG21	1:C:394:PHE:HD2	1.83	0.44
1:C:775:PHE:O	1:C:776:SER:C	2.60	0.44
1:C:1104:ARG:NH1	1:C:1108:PHE:HA	2.31	0.44
1:C:1374:MET:HA	1:C:1377:GLU:HB3	1.99	0.44
1:C:1830:ASP:O	1:C:1834:LEU:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1854:THR:HG1	1:C:1872:ARG:HB3	1.82	0.44
1:D:345:VAL:HG11	1:D:384:CYS:HA	1.98	0.44
1:D:474:LYS:NZ	1:D:478:ASP:HB2	2.32	0.44
1:D:963:ARG:HD3	1:D:963:ARG:H	1.82	0.44
1:D:972:VAL:O	1:D:975:VAL:HG12	2.17	0.44
1:D:1020:HIS:HE1	1:D:1041:ARG:NH2	2.13	0.44
1:D:1287:LEU:HD12	1:D:1290:LEU:HB3	1.99	0.44
1:D:1459:CYS:HA	1:D:1462:LEU:HB3	2.00	0.44
1:D:1503:LYS:HE3	1:D:1550:GLN:HG3	1.99	0.44
1:D:1882:PHE:CD1	1:D:1884:TYR:HB3	2.53	0.44
1:B:663:GLN:HB2	1:B:668:ARG:NH1	2.33	0.44
1:E:157:ASP:CG	1:E:1300:LYS:HG2	2.41	0.44
1:E:336:ILE:HD13	1:E:446:PHE:HZ	1.82	0.44
1:E:397:THR:HB	1:E:459:PHE:CD2	2.52	0.44
1:E:963:ARG:HD3	1:E:963:ARG:H	1.83	0.44
1:E:1006:SER:O	1:E:1010:ARG:NH2	2.51	0.44
1:E:1764:LEU:C	1:E:1767:GLN:HG2	2.43	0.44
1:F:391:ARG:HD3	1:F:391:ARG:HA	1.75	0.44
1:F:455:THR:OG1	1:F:497:LYS:HG2	2.17	0.44
1:F:474:LYS:NZ	1:F:478:ASP:HB2	2.32	0.44
1:F:573:ARG:NH2	1:F:636:THR:OG1	2.50	0.44
1:F:658:TRP:NE1	1:F:686:SER:HA	2.33	0.44
1:F:1499:PHE:HZ	1:F:1550:GLN:HG3	1.83	0.44
1:F:1579:ILE:HG21	1:F:1607:HIS:NE2	2.32	0.44
1:G:1004:LEU:O	1:G:1008:VAL:HG12	2.17	0.44
1:G:1493:PHE:HE2	1:G:1542:LEU:HD13	1.83	0.44
1:G:1596:ARG:NH1	1:G:1660:ILE:HD11	2.32	0.44
1:G:1606:LYS:O	1:G:1610:LEU:HG	2.17	0.44
1:G:1615:GLU:OE1	1:G:1615:GLU:N	2.47	0.44
1:H:139:THR:O	1:H:142:GLN:HG2	2.17	0.44
1:H:323:ARG:HE	1:H:527:ARG:NH1	2.14	0.44
1:H:336:ILE:HG21	1:H:446:PHE:CZ	2.51	0.44
1:H:568:ARG:HB2	1:H:611:LYS:HA	1.99	0.44
1:H:914:LEU:O	1:H:918:VAL:HG22	2.17	0.44
1:H:1752:PHE:HB2	1:H:1771:TYR:HB2	2.00	0.44
1:H:2014:LEU:HB3	1:H:2018:LEU:HG	1.99	0.44
1:A:577:MET:HB2	1:A:632:HIS:NE2	2.33	0.44
1:A:587:PRO:HD3	1:A:600:ARG:NH1	2.33	0.44
1:A:631:HIS:O	1:A:661:LEU:HG	2.17	0.44
1:A:1450:LEU:HA	1:A:1453:GLU:HG3	1.99	0.44
1:A:1979:LYS:HD2	1:A:1979:LYS:HA	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:552:TYR:HB3	1:C:554:TYR:CZ	2.52	0.44
1:C:789:ARG:NH1	1:C:903:LEU:O	2.51	0.44
1:C:925:GLU:O	1:C:928:LEU:HB2	2.17	0.44
1:C:932:TRP:CG	1:C:933:PHE:N	2.86	0.44
1:C:1021:TYR:HH	1:C:1044:PHE:HD2	1.59	0.44
1:C:1530:LYS:O	1:C:1533:LEU:HB2	2.17	0.44
1:D:217:ARG:HH22	1:D:218:ARG:HB2	1.83	0.44
1:D:744:LYS:HG3	1:D:745:ASP:OD1	2.18	0.44
1:D:791:PRO:O	1:D:793:ILE:HG12	2.18	0.44
1:D:1517:THR:HG21	1:D:1520:PHE:HE2	1.82	0.44
1:B:255:GLU:HB3	1:B:545:THR:OG1	2.18	0.44
1:B:568:ARG:NE	1:B:611:LYS:HE2	2.30	0.44
1:B:681:PRO:HA	1:B:697:MET:SD	2.57	0.44
1:B:1038:LEU:CA	1:B:1041:ARG:HG3	2.44	0.44
1:B:1160:ARG:HD3	1:B:1163:GLU:CD	2.42	0.44
1:B:1401:GLN:HA	1:B:1404:MET:HE1	1.98	0.44
1:B:1450:LEU:HD12	1:B:1451:LEU:N	2.32	0.44
1:B:1495:ILE:HG13	1:B:1496:GLY:H	1.82	0.44
1:B:1754:VAL:HG22	1:B:1822:ILE:HG23	1.98	0.44
1:E:77:GLU:HG2	1:E:78:PHE:O	2.18	0.44
1:E:336:ILE:HG21	1:E:446:PHE:HZ	1.83	0.44
1:E:639:HIS:HB3	1:E:652:THR:OG1	2.17	0.44
1:E:934:PHE:HA	1:E:937:LEU:HD12	1.99	0.44
1:E:1024:VAL:O	1:E:1028:LEU:HG	2.18	0.44
1:E:1286:ASP:O	1:E:1289:TYR:HB3	2.17	0.44
1:E:1710:LEU:HA	1:E:1713:ILE:HD12	1.99	0.44
1:E:1852:PHE:O	1:E:1873:LYS:HA	2.18	0.44
1:F:137:VAL:HG23	1:F:145:ARG:HH22	1.83	0.44
1:F:755:GLN:HA	1:F:758:ARG:NE	2.32	0.44
1:F:916:TRP:CE3	1:F:971:LEU:HD21	2.50	0.44
1:G:568:ARG:HE	1:G:569:ASN:ND2	2.15	0.44
1:G:1761:PHE:HZ	1:G:1820:ILE:HG12	1.82	0.44
1:G:1950:ALA:HB1	1:G:2017:LEU:HD13	1.99	0.44
1:H:284:TYR:HB3	1:H:473:PHE:HE1	1.83	0.44
1:H:832:LEU:HB3	1:H:933:PHE:CE1	2.53	0.44
1:H:1013:VAL:HA	1:H:1016:LEU:HG	1.99	0.44
1:H:1054:TYR:CD2	1:H:1109:LEU:HD23	2.52	0.44
1:H:1686:LEU:CA	1:H:1689:GLN:HE21	2.30	0.44
1:A:554:TYR:HE2	1:A:712:THR:HB	1.82	0.44
1:A:1017:VAL:HG12	1:A:1021:TYR:CE1	2.49	0.44
1:A:1018:ARG:HH11	1:A:1019:ALA:N	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1297:TYR:CE1	1:A:1381:GLU:HG3	2.50	0.44
1:A:1428:GLN:OE1	1:A:1433:LEU:HD21	2.18	0.44
1:A:1492:ASN:HD22	1:A:1492:ASN:C	2.25	0.44
1:C:130:LEU:HB2	1:C:1052:GLU:OE1	2.17	0.44
1:C:729:THR:O	1:C:733:VAL:HG22	2.17	0.44
1:C:791:PRO:O	1:C:793:ILE:HG12	2.18	0.44
1:C:798:VAL:HG22	1:C:800:LEU:HB2	2.00	0.44
1:C:829:CYS:SG	1:C:832:LEU:HG	2.58	0.44
1:C:831:GLN:OE1	1:C:831:GLN:N	2.45	0.44
1:C:1162:ALA:HA	1:C:1165:TYR:CD2	2.50	0.44
1:C:1168:LEU:HG	1:C:1257:VAL:HG13	1.98	0.44
1:C:1475:SER:O	1:C:1479:THR:HG23	2.18	0.44
1:C:1620:MET:O	1:C:1686:LEU:HD21	2.18	0.44
1:C:1727:HIS:NE2	1:D:1730:LEU:HG	2.32	0.44
1:C:1740:GLN:HB3	1:C:1746:ARG:HD3	2.00	0.44
1:D:283:LEU:HD11	1:D:401:LEU:HG	1.99	0.44
1:D:327:PHE:CE1	1:D:532:ILE:HG13	2.53	0.44
1:D:579:GLY:O	1:D:632:HIS:HE1	2.00	0.44
1:D:768:SER:OG	1:D:770:GLU:OE1	2.35	0.44
1:D:834:ALA:O	1:D:838:TYR:HB2	2.17	0.44
1:D:1428:GLN:OE1	1:D:1433:LEU:HD21	2.17	0.44
1:D:1462:LEU:O	1:D:1466:LEU:HG	2.17	0.44
1:D:1487:LEU:HD12	1:D:1491:GLN:HE22	1.82	0.44
1:D:1561:ILE:HA	1:D:1564:ASP:OD2	2.17	0.44
1:D:1754:VAL:HG21	1:D:1771:TYR:CE2	2.53	0.44
1:B:77:GLU:OE1	1:B:77:GLU:N	2.50	0.44
1:B:96:GLU:HG3	1:B:516:LEU:HD22	2.00	0.44
1:B:269:LYS:HD2	1:B:495:GLN:HB3	1.99	0.44
1:B:276:PRO:HA	1:B:305:MET:HE3	1.99	0.44
1:B:1630:TYR:HE1	1:B:1665:LEU:HD21	1.81	0.44
1:E:568:ARG:HB2	1:E:611:LYS:HA	2.00	0.44
1:E:638:TYR:HA	1:E:652:THR:O	2.17	0.44
1:E:1549:GLU:OE1	1:E:1549:GLU:N	2.31	0.44
1:E:1639:HIS:CD2	1:E:1640:LEU:HB3	2.51	0.44
1:F:123:VAL:HG13	1:F:947:LEU:HD11	1.99	0.44
1:F:743:LEU:HD11	1:F:748:LEU:HD21	1.99	0.44
1:F:1557:ASN:O	1:F:1560:MET:HG2	2.17	0.44
1:F:1777:THR:HG23	1:F:1781:GLU:HG3	2.00	0.44
1:F:1896:GLU:N	1:F:1896:GLU:OE1	2.50	0.44
1:F:1909:MET:SD	1:F:1970:LEU:HD11	2.57	0.44
1:G:84:GLU:O	1:G:123:VAL:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:261:ILE:O	1:G:326:ILE:HA	2.17	0.44
1:G:1176:LEU:HA	1:G:1179:LEU:HG	1.99	0.44
1:G:1699:LEU:O	1:G:1703:VAL:HG23	2.18	0.44
1:H:141:THR:O	1:H:145:ARG:HG3	2.17	0.44
1:H:466:ARG:HD3	1:H:616:TYR:CD1	2.53	0.44
1:H:791:PRO:HG2	1:H:798:VAL:HG21	1.99	0.44
1:H:1438:ALA:HA	1:H:1441:ARG:NE	2.33	0.44
1:H:1690:ALA:HB1	1:H:1694:PHE:CZ	2.53	0.44
1:H:1832:TYR:CG	1:H:1833:GLU:N	2.85	0.44
1:A:55:ASP:O	1:A:59:VAL:HG23	2.17	0.44
1:A:281:LEU:HG	1:A:298:PHE:CE2	2.52	0.44
1:A:572:VAL:HA	1:A:636:THR:O	2.18	0.44
1:A:1254:LEU:O	1:A:1258:LEU:HD23	2.17	0.44
1:A:1447:PHE:HD2	1:A:1450:LEU:HD23	1.81	0.44
1:A:1726:VAL:HA	1:A:1729:LYS:HD2	1.99	0.44
1:C:81:ASP:OD2	1:C:127:TYR:OH	2.24	0.44
1:C:125:ARG:NH2	1:C:1003:ASP:OD1	2.49	0.44
1:C:127:TYR:O	1:C:129:TYR:N	2.51	0.44
1:C:753:VAL:HG13	1:C:754:GLU:N	2.33	0.44
1:C:840:PHE:CE1	1:C:842:LEU:HB2	2.52	0.44
1:C:1128:ALA:O	1:C:1131:LEU:HB2	2.17	0.44
1:C:1465:ARG:O	1:C:1469:HIS:CD2	2.71	0.44
1:C:1481:ALA:O	1:C:1484:SER:OG	2.27	0.44
1:C:1580:ASP:O	1:C:1583:TYR:HB3	2.16	0.44
1:C:1582:MET:SD	1:C:1582:MET:C	3.01	0.44
1:C:1630:TYR:CE2	1:C:1634:LEU:HD11	2.53	0.44
1:C:1761:PHE:CZ	1:C:1818:ALA:HB1	2.53	0.44
1:C:1866:LEU:HA	1:C:1869:GLN:HB3	1.99	0.44
1:D:662:LEU:O	1:D:668:ARG:NH2	2.50	0.44
1:D:907:LEU:O	1:D:909:HIS:N	2.51	0.44
1:D:1861:ARG:HH12	1:D:1864:GLY:HA3	1.83	0.44
1:B:221:THR:O	1:B:225:GLN:NE2	2.48	0.44
1:B:390:TYR:HB3	1:B:606:VAL:HG23	1.99	0.44
1:B:1453:GLU:CD	1:B:1454:GLU:HG2	2.42	0.44
1:E:551:LEU:HD11	1:E:623:LEU:HD22	1.99	0.44
1:E:805:PHE:HA	1:E:808:MET:HG3	1.99	0.44
1:E:935:PHE:O	1:E:939:VAL:HG23	2.18	0.44
1:E:1167:PRO:O	1:E:1171:ILE:HD12	2.17	0.44
1:F:285:ASP:HB3	1:F:292:ILE:HG21	2.00	0.44
1:F:400:HIS:CE1	1:F:402:ALA:HB3	2.52	0.44
1:F:1490:ARG:O	1:F:1493:PHE:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1845:TYR:CD1	1:F:1883:PRO:HD2	2.53	0.44
1:G:1378:ALA:HA	1:G:1381:GLU:HG2	1.99	0.44
1:G:1451:LEU:HA	1:G:1458:LEU:HD23	1.98	0.44
1:G:1574:ASP:OD1	1:G:1577:MET:HE3	2.18	0.44
1:G:1599:TRP:HA	1:G:1602:ASN:HB2	1.98	0.44
1:G:1642:VAL:HG13	1:G:1642:VAL:O	2.18	0.44
1:G:1769:PHE:HB2	1:G:1771:TYR:HE1	1.82	0.44
1:G:1847:LEU:HB3	1:G:1850:PHE:CZ	2.52	0.44
1:H:85:LEU:HG	1:H:947:LEU:HD13	1.99	0.44
1:H:1529:LEU:HD21	1:H:1559:HIS:CE1	2.53	0.44
1:H:1903:GLU:O	1:H:1907:GLU:HG2	2.17	0.44
1:H:1963:LEU:HD12	1:H:1967:HIS:NE2	2.33	0.44
1:H:1966:HIS:O	1:H:1970:LEU:HB2	2.17	0.44
1:A:400:HIS:NE2	1:A:402:ALA:HB3	2.32	0.44
1:A:510:CYS:HA	1:A:529:THR:HB	1.98	0.44
1:A:574:VAL:HG13	1:A:635:PHE:CE1	2.53	0.44
1:A:1158:LYS:HE2	1:A:1263:ASN:O	2.18	0.44
1:C:139:THR:O	1:C:142:GLN:HG2	2.18	0.44
1:C:662:LEU:O	1:C:668:ARG:NH2	2.50	0.44
1:C:828:HIS:CE1	1:C:932:TRP:CG	3.06	0.44
1:C:1182:PHE:CD1	1:C:1294:ALA:HA	2.53	0.44
1:D:220:GLU:O	1:D:224:ARG:HG2	2.18	0.44
1:D:722:PRO:HG2	1:D:723:TYR:CE2	2.53	0.44
1:D:741:PHE:HB2	1:D:748:LEU:HD12	2.00	0.44
1:D:749:SER:N	1:D:752:ASN:OD1	2.29	0.44
1:D:1101:GLY:O	1:D:1104:ARG:HB2	2.18	0.44
1:D:1283:ARG:NE	1:D:1283:ARG:HA	2.33	0.44
1:D:1401:GLN:HA	1:D:1404:MET:CE	2.42	0.44
1:D:1526:ARG:HH12	1:D:1562:LEU:HB3	1.83	0.44
1:B:218:ARG:HH12	1:B:222:LEU:CG	2.29	0.44
1:B:231:LEU:HD12	1:B:1262:LYS:HD3	1.99	0.44
1:B:285:ASP:HB3	1:B:288:GLU:HB3	1.98	0.44
1:B:346:LEU:HD13	1:B:606:VAL:HB	1.99	0.44
1:B:669:THR:HA	1:B:711:LEU:HD23	1.98	0.44
1:B:721:ASP:CG	1:B:723:TYR:H	2.26	0.44
1:E:219:ASN:HD21	1:E:1393:LEU:HD21	1.82	0.44
1:E:757:LEU:O	1:E:760:SER:OG	2.29	0.44
1:E:1046:ARG:HH21	1:E:1047:ILE:HG13	1.83	0.44
1:E:1618:GLN:CG	1:E:1884:TYR:HA	2.45	0.44
1:E:1686:LEU:CA	1:E:1689:GLN:HE21	2.30	0.44
1:F:141:THR:HB	1:F:145:ARG:HH22	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:244:VAL:HG11	1:F:1050:SER:HB2	2.00	0.44
1:F:1406:SER:OG	1:F:1407:GLU:N	2.51	0.44
1:F:1734:PHE:CE2	1:G:1723:LEU:HD22	2.52	0.44
1:G:344:LYS:HB2	1:G:394:PHE:HB2	1.99	0.44
1:G:574:VAL:HG13	1:G:635:PHE:HE1	1.83	0.44
1:G:592:LYS:HD3	1:G:592:LYS:N	2.32	0.44
1:G:607:VAL:HB	1:G:613:PRO:CB	2.48	0.44
1:G:1144:CYS:O	1:G:1148:THR:HG23	2.16	0.44
1:G:1753:ARG:H	1:G:1825:VAL:HG23	1.83	0.44
1:G:1999:TYR:O	1:G:2002:GLU:HG3	2.18	0.44
1:H:563:ARG:NH2	1:H:567:VAL:HG11	2.28	0.44
1:H:568:ARG:HH21	1:H:610:ASN:HA	1.83	0.44
1:H:984:HIS:ND1	1:H:985:LYS:HG3	2.33	0.44
1:H:1486:TYR:CZ	1:H:1536:ALA:HA	2.53	0.44
1:H:1727:HIS:O	1:H:1730:LEU:HB3	2.18	0.44
1:A:264:LYS:HB3	1:A:323:ARG:NH1	2.33	0.44
1:A:781:ASP:HB3	1:A:782:LYS:NZ	2.33	0.44
1:A:980:ILE:O	1:A:983:VAL:HG22	2.18	0.44
1:A:1590:GLN:HA	1:A:1596:ARG:HD3	1.99	0.44
1:A:1704:ASN:O	1:A:1708:LYS:HG2	2.18	0.44
1:C:106:ASP:OD1	1:C:107:ALA:N	2.51	0.44
1:C:266:LEU:HD12	1:C:497:LYS:HG3	1.98	0.44
1:C:1808:VAL:HG21	1:C:1813:LEU:HD21	1.99	0.44
1:D:259:GLN:NE2	1:D:446:PHE:HD2	2.16	0.44
1:D:393:PRO:HD3	1:D:466:ARG:HH21	1.83	0.44
1:D:697:MET:O	1:D:699:TRP:NE1	2.51	0.44
1:D:790:PRO:O	1:D:903:LEU:HD11	2.18	0.44
1:D:1025:ALA:HA	1:D:1028:LEU:CD1	2.48	0.44
1:D:1128:ALA:O	1:D:1131:LEU:HB3	2.18	0.44
1:D:1403:VAL:HG11	1:D:1412:VAL:HG21	2.00	0.44
1:D:1425:GLY:HA3	1:D:1465:ARG:NH1	2.31	0.44
1:D:1526:ARG:HD3	1:D:1529:LEU:HD21	2.00	0.44
1:D:1751:TYR:CE2	1:D:1850:PHE:HE1	2.36	0.44
1:D:2014:LEU:HD23	1:D:2017:LEU:HD12	2.00	0.44
1:B:327:PHE:CE1	1:B:532:ILE:HG13	2.52	0.44
1:B:721:ASP:OD2	1:B:723:TYR:HB2	2.18	0.44
1:B:765:ARG:HG3	1:B:810:HIS:HB3	1.99	0.44
1:B:932:TRP:CD2	1:B:933:PHE:N	2.86	0.44
1:B:1055:VAL:HG21	1:B:1152:TYR:OH	2.17	0.44
1:B:2009:ARG:O	1:B:2012:GLU:HG3	2.18	0.44
1:E:145:ARG:NH1	1:E:1148:THR:HA	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:154:PHE:O	1:E:158:ALA:HB2	2.17	0.44
1:E:284:TYR:HB3	1:E:473:PHE:CE1	2.53	0.44
1:E:290:LYS:HZ3	1:E:535:PHE:HD2	1.64	0.44
1:E:629:GLU:HG2	1:E:687:VAL:HG23	1.99	0.44
1:E:658:TRP:CD2	1:E:685:TYR:HD2	2.36	0.44
1:E:1698:GLY:HA2	1:E:1700:TYR:OH	2.18	0.44
1:E:1756:PHE:CD1	1:E:1820:ILE:HG12	2.52	0.44
1:F:608:TYR:CD2	1:F:609:HIS:HB2	2.53	0.44
1:F:935:PHE:HD1	1:F:1000:PHE:CD1	2.36	0.44
1:F:976:GLY:HA2	1:F:979:VAL:HG12	1.99	0.44
1:F:1646:SER:O	1:F:1650:ILE:HG12	2.18	0.44
1:F:1701:GLU:O	1:F:1704:ASN:HB3	2.17	0.44
1:F:1950:ALA:CB	1:F:2017:LEU:HD13	2.48	0.44
1:G:734:LEU:HD21	1:G:757:LEU:HD11	1.99	0.44
1:G:781:ASP:OD1	1:G:835:TYR:OH	2.36	0.44
1:G:1474:ILE:O	1:G:1478:ARG:HG3	2.18	0.44
1:G:1760:HIS:CE1	1:G:1798:VAL:HG11	2.52	0.44
1:G:1858:PRO:HG3	1:G:1870:HIS:CE1	2.52	0.44
1:G:1896:GLU:N	1:G:1896:GLU:OE2	2.51	0.44
1:H:94:THR:HA	1:H:518:ILE:HA	1.99	0.44
1:H:576:TYR:CE2	1:H:631:HIS:HB3	2.53	0.44
1:H:811:VAL:O	1:H:815:VAL:HG13	2.17	0.44
1:H:1064:LEU:HD23	1:H:1106:GLN:OE1	2.17	0.44
1:H:1647:PHE:HB3	1:H:1654:VAL:HG21	2.00	0.44
1:H:1825:VAL:HA	1:H:1852:PHE:CD2	2.52	0.44
1:A:630:ASN:OD1	1:A:631:HIS:ND1	2.51	0.44
1:A:1547:PHE:O	1:A:1551:VAL:HG23	2.18	0.44
1:A:1579:ILE:O	1:A:1603:MET:HE1	2.18	0.44
1:A:1771:TYR:HE1	1:A:1888:ARG:HG3	1.82	0.44
1:A:1806:ASN:OD1	1:A:1872:ARG:NH2	2.48	0.44
1:A:1858:PRO:HG3	1:A:1870:HIS:NE2	2.33	0.44
1:C:55:ASP:O	1:C:59:VAL:HG23	2.18	0.44
1:C:232:LEU:HB2	1:C:1147:ASP:OD2	2.18	0.44
1:C:551:LEU:HD11	1:C:623:LEU:HB2	2.00	0.44
1:C:678:VAL:HG23	1:C:698:ARG:CZ	2.48	0.44
1:C:778:HIS:NE2	1:C:782:LYS:HE2	2.33	0.44
1:C:1040:LEU:HD13	1:C:1040:LEU:HA	1.82	0.44
1:D:576:TYR:OH	1:D:631:HIS:HB3	2.17	0.44
1:D:908:LEU:HD22	1:D:941:SER:HB2	1.99	0.44
1:D:910:GLU:HG2	1:D:911:GLU:OE1	2.18	0.44
1:D:954:THR:O	1:D:959:ARG:NE	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1248:GLU:H	1:D:1248:GLU:CD	2.20	0.44
1:D:1437:LEU:HA	1:D:1440:GLN:HE21	1.82	0.44
1:D:1506:VAL:O	1:D:1509:SER:OG	2.23	0.44
1:D:1900:THR:O	1:D:1903:GLU:HG2	2.18	0.44
1:B:125:ARG:HH21	1:B:1003:ASP:HA	1.82	0.44
1:B:218:ARG:HH11	1:B:218:ARG:HG2	1.83	0.44
1:B:742:ARG:HD3	1:B:742:ARG:N	2.32	0.44
1:B:1175:THR:O	1:B:1179:LEU:HG	2.17	0.44
1:B:1461:ASP:HA	1:B:1464:LEU:HB2	1.99	0.44
1:B:1756:PHE:HE1	1:B:1790:TYR:HE2	1.65	0.44
1:B:1866:LEU:HD23	1:B:1869:GLN:HB3	2.00	0.44
1:E:140:ASP:HA	1:E:143:ARG:NE	2.33	0.44
1:E:319:SER:HB2	1:E:511:LEU:HD11	2.00	0.44
1:E:396:TRP:O	1:E:460:PHE:N	2.40	0.44
1:E:697:MET:HE2	1:E:699:TRP:CH2	2.53	0.44
1:E:1421:LEU:HA	1:E:1424:LEU:HG	2.00	0.44
1:E:1512:SER:O	1:E:1516:THR:HG23	2.18	0.44
1:E:1547:PHE:O	1:E:1551:VAL:HG22	2.18	0.44
1:E:1706:VAL:O	1:E:1710:LEU:HD23	2.17	0.44
1:F:245:GLU:OE1	1:F:826:ARG:HG2	2.17	0.44
1:F:654:VAL:O	1:F:678:VAL:HG13	2.18	0.44
1:F:1476:THR:O	1:F:1480:HIS:ND1	2.32	0.44
1:F:1553:ASP:OD1	1:F:1554:LEU:N	2.50	0.44
1:F:1934:LEU:O	1:F:1938:VAL:HG22	2.18	0.44
1:G:573:ARG:NH1	1:G:575:GLN:HE21	2.16	0.44
1:G:586:LEU:HA	1:G:600:ARG:HH21	1.83	0.44
1:G:1182:PHE:CD1	1:G:1294:ALA:HA	2.53	0.44
1:G:1886:LYS:HG3	1:G:1888:ARG:H	1.83	0.44
1:H:915:GLN:O	1:H:919:SER:CB	2.58	0.44
1:H:1279:PRO:HB2	1:H:1283:ARG:HH22	1.83	0.44
1:H:1496:GLY:C	1:H:1498:ASN:H	2.26	0.44
1:H:1872:ARG:C	1:H:1873:LYS:HD2	2.42	0.44
1:H:1907:GLU:HB2	1:H:1911:LYS:NZ	2.32	0.44
1:A:152:GLN:HB3	1:A:1429:SER:HB2	1.99	0.43
1:A:472:LEU:O	1:A:475:PHE:HB2	2.17	0.43
1:A:1587:ARG:CZ	1:A:1596:ARG:HH22	2.30	0.43
1:C:254:ARG:HD3	1:C:254:ARG:H	1.81	0.43
1:C:323:ARG:HD3	1:C:527:ARG:HH11	1.82	0.43
1:C:669:THR:HA	1:C:711:LEU:HD22	1.99	0.43
1:C:923:VAL:O	1:C:927:ILE:HG13	2.18	0.43
1:C:988:GLU:HA	1:C:991:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1117:LEU:HD23	1:C:1135:ALA:HB1	2.00	0.43
1:C:1457:GLU:HB3	1:C:1676:LYS:HE3	2.00	0.43
1:C:1780:ALA:HB1	1:C:1784:HIS:CE1	2.53	0.43
1:C:1838:VAL:O	1:C:1843:ARG:NH1	2.51	0.43
1:C:1882:PHE:HA	1:C:1883:PRO:C	2.43	0.43
1:C:1916:LEU:HD13	1:C:1933:VAL:HG12	2.00	0.43
1:D:68:GLU:O	1:D:73:ARG:HD2	2.17	0.43
1:D:836:VAL:HA	1:D:840:PHE:CB	2.43	0.43
1:D:905:SER:C	1:D:906:LYS:HE2	2.43	0.43
1:D:1110:ALA:O	1:D:1113:LEU:HB3	2.18	0.43
1:D:1434:GLN:OE1	1:D:1480:HIS:CG	2.71	0.43
1:B:832:LEU:HB3	1:B:933:PHE:CZ	2.52	0.43
1:B:1040:LEU:HA	1:B:1040:LEU:HD13	1.78	0.43
1:B:1508:MET:O	1:B:1511:SER:OG	2.31	0.43
1:B:1692:GLY:O	1:B:1696:MET:HG3	2.17	0.43
1:E:728:PHE:CE2	1:E:775:PHE:HD1	2.36	0.43
1:E:1582:MET:HG3	1:E:1603:MET:HE1	1.99	0.43
1:F:552:TYR:HA	1:F:619:PHE:O	2.18	0.43
1:G:1508:MET:SD	1:G:1598:THR:HG21	2.58	0.43
1:G:1567:LYS:HE3	1:G:1581:LEU:HD13	2.00	0.43
1:G:1727:HIS:O	1:G:1730:LEU:HB3	2.17	0.43
1:H:479:MET:HE3	1:H:482:PRO:HG3	1.98	0.43
1:H:666:ARG:HE	1:H:667:LEU:H	1.65	0.43
1:H:1600:LEU:HD23	1:H:1619:CYS:O	2.18	0.43
1:H:1701:GLU:H	1:H:1701:GLU:CD	2.22	0.43
1:A:125:ARG:HG3	1:A:128:GLN:CD	2.43	0.43
1:A:830:PRO:HD2	1:A:831:GLN:OE1	2.18	0.43
1:A:966:ASP:HA	1:A:969:THR:OG1	2.17	0.43
1:A:1021:TYR:HH	1:A:1044:PHE:HE2	1.57	0.43
1:A:1038:LEU:HD23	1:A:1041:ARG:CD	2.47	0.43
1:A:1054:TYR:CE1	1:A:1109:LEU:HB3	2.53	0.43
1:A:1409:ARG:HD2	1:A:1413:LEU:CD1	2.48	0.43
1:C:94:THR:HA	1:C:518:ILE:HD13	1.99	0.43
1:C:276:PRO:HG2	1:C:309:LEU:HG	2.01	0.43
1:C:1428:GLN:OE1	1:C:1433:LEU:HD21	2.18	0.43
1:C:1517:THR:HG21	1:C:1520:PHE:HE2	1.83	0.43
1:C:1593:PRO:HG2	1:C:1673:CYS:SG	2.59	0.43
1:C:1700:TYR:HB3	1:C:1733:ALA:HB1	2.01	0.43
1:D:282:ALA:HB1	1:D:293:SER:OG	2.18	0.43
1:D:912:LEU:HD23	1:D:938:MET:HE3	2.00	0.43
1:D:979:VAL:O	1:D:983:VAL:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1003:ASP:HA	1:D:1006:SER:HB3	1.99	0.43
1:D:1170:SER:O	1:D:1173:ARG:HG2	2.17	0.43
1:B:347:GLN:HB2	1:B:383:PHE:CE2	2.52	0.43
1:B:466:ARG:HD3	1:B:616:TYR:CD1	2.50	0.43
1:B:1033:ASN:OD1	1:B:1035:ALA:HB3	2.18	0.43
1:B:1052:GLU:C	1:B:1054:TYR:H	2.25	0.43
1:B:1260:VAL:O	1:B:1264:THR:HG23	2.18	0.43
1:B:1403:VAL:O	1:B:1403:VAL:HG12	2.18	0.43
1:B:1565:THR:O	1:B:1568:MET:HB2	2.18	0.43
1:B:1802:ILE:HB	1:B:1821:GLN:HA	1.99	0.43
1:E:348:GLN:HG3	1:E:383:PHE:CE1	2.53	0.43
1:E:477:ALA:O	1:E:480:ARG:HG2	2.18	0.43
1:E:1281:LEU:O	1:E:1285:LEU:HD23	2.18	0.43
1:E:1526:ARG:O	1:E:1529:LEU:HG	2.19	0.43
1:F:65:PRO:HB3	1:F:76:VAL:HG11	2.00	0.43
1:F:223:ARG:HH12	1:F:1394:ASP:HA	1.83	0.43
1:F:312:HIS:O	1:F:389:ARG:NH2	2.47	0.43
1:F:324:SER:HB2	1:F:529:THR:HA	2.00	0.43
1:F:551:LEU:HD12	1:F:621:LEU:HB2	2.00	0.43
1:F:561:SER:CB	1:F:612:SER:HB3	2.48	0.43
1:F:767:ALA:HB3	1:F:772:LEU:HD11	2.01	0.43
1:F:1097:PHE:HZ	1:F:1268:LEU:HD12	1.82	0.43
1:F:1560:MET:O	1:F:1563:THR:OG1	2.28	0.43
1:G:138:THR:N	1:G:141:THR:OG1	2.50	0.43
1:G:396:TRP:HD1	1:G:462:GLN:HG3	1.83	0.43
1:G:739:PHE:CE1	1:G:748:LEU:HG	2.53	0.43
1:G:1257:VAL:O	1:G:1261:LEU:HG	2.18	0.43
1:G:1622:HIS:ND1	1:G:1656:GLU:OE2	2.51	0.43
1:H:108:GLN:HG3	1:H:732:HIS:CD2	2.50	0.43
1:H:139:THR:HA	1:H:142:GLN:OE1	2.18	0.43
1:H:673:CYS:HA	1:H:707:PHE:O	2.18	0.43
1:H:755:GLN:HA	1:H:758:ARG:HE	1.83	0.43
1:H:757:LEU:O	1:H:760:SER:OG	2.28	0.43
1:H:812:VAL:HA	1:H:815:VAL:HG22	2.00	0.43
1:H:1245:LEU:HD21	1:H:1253:LEU:HD11	2.00	0.43
1:H:1440:GLN:NE2	1:H:1441:ARG:HG3	2.33	0.43
1:H:1768:GLU:HG2	1:H:1890:ARG:NH2	2.33	0.43
1:H:1852:PHE:HB3	1:H:1874:THR:OG1	2.18	0.43
1:A:96:GLU:HG3	1:A:516:LEU:HD22	1.99	0.43
1:A:1042:MET:O	1:A:1043:GLU:C	2.61	0.43
1:A:1109:LEU:HD12	1:A:1109:LEU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1150:PRO:HG2	1:A:1151:ARG:HH22	1.82	0.43
1:A:1398:ILE:O	1:A:1402:THR:HG23	2.19	0.43
1:A:1587:ARG:HD3	1:A:1596:ARG:HH12	1.82	0.43
1:A:1854:THR:OG1	1:A:1872:ARG:HB2	2.18	0.43
1:C:138:THR:OG1	1:C:141:THR:HG23	2.19	0.43
1:C:741:PHE:HB3	1:C:742:ARG:H	1.61	0.43
1:C:915:GLN:HA	1:C:918:VAL:HG22	2.01	0.43
1:C:1389:SER:HB2	1:C:1432:PHE:CE1	2.53	0.43
1:D:775:PHE:O	1:D:779:VAL:HG13	2.18	0.43
1:D:899:VAL:O	1:D:903:LEU:HD23	2.18	0.43
1:D:975:VAL:O	1:D:979:VAL:HG12	2.19	0.43
1:D:1028:LEU:O	1:D:1031:SER:HB3	2.18	0.43
1:D:1029:GLN:HG2	1:D:1030:SER:N	2.34	0.43
1:D:1468:ARG:HH21	1:D:1520:PHE:HE2	1.67	0.43
1:D:1560:MET:HE1	1:D:1589:TYR:OH	2.18	0.43
1:D:1730:LEU:HB3	1:D:1731:GLN:NE2	2.34	0.43
1:D:1950:ALA:HB2	1:D:1974:PHE:CZ	2.53	0.43
1:B:585:ALA:O	1:B:600:ARG:NH2	2.52	0.43
1:B:725:ASP:O	1:B:729:THR:HG23	2.18	0.43
1:B:1034:PRO:CA	1:B:1037:LEU:HD13	2.41	0.43
1:B:1054:TYR:O	1:B:1057:LEU:HB2	2.18	0.43
1:B:1529:LEU:O	1:B:1532:ILE:HB	2.18	0.43
1:B:1694:PHE:HE2	1:B:1706:VAL:HB	1.83	0.43
1:B:1722:LYS:HZ3	1:B:1725:ALA:HB3	1.83	0.43
1:E:213:GLU:HA	1:E:216:ASP:OD2	2.17	0.43
1:E:278:PHE:HD2	1:E:391:ARG:HE	1.65	0.43
1:E:734:LEU:HD22	1:E:786:LEU:HD11	1.99	0.43
1:E:840:PHE:HB3	1:E:940:LYS:NZ	2.33	0.43
1:E:1510:LEU:HD12	1:E:1511:SER:N	2.32	0.43
1:E:1665:LEU:HD23	1:E:1672:PHE:HE2	1.83	0.43
1:F:932:TRP:CD1	1:F:932:TRP:H	2.35	0.43
1:F:1752:PHE:O	1:F:1770:VAL:HA	2.18	0.43
1:F:1879:ASP:OD2	1:F:1890:ARG:HB3	2.18	0.43
1:G:54:LEU:H	1:G:1108:PHE:HZ	1.66	0.43
1:G:288:GLU:HG3	1:G:290:LYS:HB3	1.98	0.43
1:G:723:TYR:CE1	1:G:763:ALA:HB1	2.54	0.43
1:G:1515:GLY:HA3	1:G:1602:ASN:OD1	2.18	0.43
1:G:1518:GLN:O	1:G:1569:LYS:NZ	2.49	0.43
1:G:1955:ALA:HB2	1:G:2017:LEU:HD21	2.00	0.43
1:H:77:GLU:HG2	1:H:78:PHE:O	2.18	0.43
1:H:154:PHE:O	1:H:158:ALA:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:514:GLU:HA	1:H:590:PHE:HE2	1.84	0.43
1:H:570:LEU:HD13	1:H:637:PHE:HE1	1.83	0.43
1:H:573:ARG:HD3	1:H:638:TYR:CE2	2.53	0.43
1:H:761:LEU:HA	1:H:764:LEU:HD23	2.00	0.43
1:H:1569:LYS:HD2	1:H:1569:LYS:HA	1.82	0.43
1:H:1615:GLU:HB2	1:H:1885:ILE:O	2.18	0.43
1:H:1856:PHE:CZ	1:H:1898:VAL:HG22	2.53	0.43
1:A:831:GLN:H	1:A:831:GLN:CD	2.27	0.43
1:A:996:SER:O	1:A:997:LEU:C	2.60	0.43
1:A:1000:PHE:O	1:A:1004:LEU:HG	2.17	0.43
1:A:1760:HIS:CE1	1:A:1798:VAL:HG21	2.53	0.43
1:A:1826:GLU:N	1:A:1851:LEU:O	2.43	0.43
1:A:1950:ALA:HB1	1:A:1954:LEU:HD12	2.00	0.43
1:C:144:GLU:OE1	1:C:145:ARG:HD3	2.18	0.43
1:C:281:LEU:HG	1:C:298:PHE:CE2	2.53	0.43
1:C:542:ALA:O	1:C:774:ALA:HA	2.18	0.43
1:C:576:TYR:HE2	1:C:631:HIS:HB3	1.84	0.43
1:D:268:LEU:HD12	1:D:495:GLN:O	2.18	0.43
1:D:1096:MET:HA	1:D:1103:PHE:CE2	2.53	0.43
1:D:1709:ASN:OD1	1:D:1713:ILE:HD11	2.18	0.43
1:D:1731:GLN:O	1:D:1735:THR:HG23	2.19	0.43
1:B:110:ARG:HG2	1:B:114:GLU:OE1	2.18	0.43
1:B:348:GLN:HG2	1:B:383:PHE:HZ	1.83	0.43
1:B:548:ARG:C	1:B:716:SER:HB3	2.42	0.43
1:B:772:LEU:HA	1:B:772:LEU:HD23	1.74	0.43
1:B:811:VAL:O	1:B:815:VAL:HG13	2.18	0.43
1:B:946:LEU:HD11	1:B:960:PHE:CE2	2.52	0.43
1:B:980:ILE:H	1:B:980:ILE:HD12	1.83	0.43
1:B:1632:ALA:HB2	1:B:1640:LEU:HD13	1.99	0.43
1:B:1785:ARG:HA	1:B:1788:GLU:OE1	2.19	0.43
1:B:1953:PHE:HB3	1:B:1967:HIS:HD2	1.83	0.43
1:B:2001:ARG:NE	1:B:2004:GLU:OE1	2.51	0.43
1:E:284:TYR:CZ	1:E:291:LYS:HG2	2.53	0.43
1:E:657:THR:HB	1:E:676:VAL:HA	1.99	0.43
1:E:898:GLU:O	1:E:902:ILE:HG13	2.18	0.43
1:E:1031:SER:HB2	1:E:1037:LEU:HD11	2.00	0.43
1:E:1492:ASN:O	1:E:1497:HIS:N	2.52	0.43
1:E:1789:PHE:O	1:E:1792:GLU:HG3	2.19	0.43
1:F:56:PHE:CE1	1:F:1059:LEU:HB2	2.53	0.43
1:F:332:PRO:HB2	1:F:444:CYS:O	2.17	0.43
1:F:401:LEU:O	1:F:404:ILE:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1055:VAL:O	1:F:1060:PRO:HD3	2.18	0.43
1:F:1246:SER:O	1:F:1249:SER:OG	2.34	0.43
1:F:1430:ALA:O	1:F:1434:GLN:HG3	2.18	0.43
1:F:1667:PRO:HA	1:F:1672:PHE:CD2	2.53	0.43
1:F:1884:TYR:CE1	1:F:1885:ILE:HG12	2.53	0.43
1:G:154:PHE:O	1:G:158:ALA:CB	2.66	0.43
1:G:297:TYR:CE2	1:G:592:LYS:HD2	2.53	0.43
1:G:589:ILE:HA	1:G:621:LEU:HA	2.00	0.43
1:G:944:LEU:HA	1:G:947:LEU:HD12	2.01	0.43
1:G:1179:LEU:HD22	1:G:1245:LEU:HD22	1.99	0.43
1:G:1493:PHE:CE2	1:G:1542:LEU:HD13	2.54	0.43
1:G:1650:ILE:HD11	1:G:1709:ASN:OD1	2.19	0.43
1:G:1802:ILE:HD12	1:G:1821:GLN:N	2.34	0.43
1:G:1828:TYR:HD1	1:G:1851:LEU:HD22	1.84	0.43
1:G:1938:VAL:HG11	1:G:2007:TYR:HB2	2.00	0.43
1:G:2001:ARG:HH21	1:G:2005:ARG:HB3	1.83	0.43
1:G:2002:GLU:O	1:G:2005:ARG:HG3	2.19	0.43
1:H:657:THR:HB	1:H:676:VAL:HA	2.01	0.43
1:H:907:LEU:O	1:H:910:GLU:HG2	2.18	0.43
1:H:1114:LEU:HD21	1:H:1167:PRO:HB2	2.00	0.43
1:H:1878:THR:OG1	1:H:1880:HIS:O	2.21	0.43
1:A:85:LEU:CD1	1:A:947:LEU:HD13	2.48	0.43
1:A:1377:GLU:HA	1:A:1380:VAL:HG22	2.01	0.43
1:A:1396:LEU:O	1:A:1400:VAL:HG23	2.18	0.43
1:A:1608:ALA:HA	1:A:1613:HIS:CD2	2.54	0.43
1:A:1623:ALA:O	1:A:1627:VAL:HG23	2.19	0.43
1:C:220:GLU:O	1:C:224:ARG:HG2	2.18	0.43
1:C:232:LEU:HG	1:C:1259:TRP:CD1	2.54	0.43
1:C:909:HIS:HB3	1:C:938:MET:HB2	2.00	0.43
1:C:1031:SER:O	1:C:1034:PRO:HD3	2.19	0.43
1:C:1161:VAL:HG12	1:C:1165:TYR:HE2	1.83	0.43
1:C:1931:GLN:HG3	1:C:1988:ASN:ND2	2.34	0.43
1:D:115:MET:HE1	1:D:777:HIS:HD2	1.81	0.43
1:D:146:GLN:NE2	1:D:233:THR:O	2.51	0.43
1:D:212:PRO:HA	1:D:215:VAL:HG22	1.99	0.43
1:D:344:LYS:N	1:D:392:MET:O	2.34	0.43
1:D:480:ARG:O	1:D:481:ARG:NE	2.51	0.43
1:D:563:ARG:CZ	1:D:567:VAL:HB	2.48	0.43
1:D:915:GLN:NE2	1:D:916:TRP:CD1	2.87	0.43
1:D:1406:SER:OG	1:D:1407:GLU:N	2.51	0.43
1:D:1449:GLU:OE1	1:D:1449:GLU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1482:SER:HA	1:D:1485:LEU:HD12	2.00	0.43
1:D:1663:ASP:OD2	1:H:1835:LYS:HD3	2.19	0.43
1:D:1814:ASP:HB2	1:D:1817:LYS:HB3	2.00	0.43
1:B:127:TYR:O	1:B:130:LEU:N	2.50	0.43
1:B:265:CYS:HB3	1:B:300:LEU:HD11	2.00	0.43
1:B:947:LEU:O	1:B:950:GLN:NE2	2.51	0.43
1:B:1438:ALA:HA	1:B:1441:ARG:HG3	2.01	0.43
1:B:1755:GLY:HA2	1:B:1767:GLN:O	2.18	0.43
1:B:1982:GLU:HA	1:B:1985:LEU:HD12	2.00	0.43
1:E:549:ASN:O	1:E:550:LEU:HD23	2.19	0.43
1:E:1377:GLU:HA	1:E:1380:VAL:HG22	2.00	0.43
1:E:1526:ARG:HG3	1:E:1559:HIS:HE1	1.84	0.43
1:E:1530:LYS:O	1:E:1534:THR:HG23	2.18	0.43
1:E:1890:ARG:HA	1:E:1890:ARG:HD2	1.84	0.43
1:F:397:THR:HB	1:F:459:PHE:CE2	2.54	0.43
1:F:1182:PHE:CD1	1:F:1294:ALA:HA	2.54	0.43
1:F:1370:THR:OG1	1:F:1371:LYS:N	2.49	0.43
1:F:1474:ILE:HB	1:F:1477:ILE:HD12	2.00	0.43
1:F:1939:GLY:HA3	1:F:2006:ASN:ND2	2.34	0.43
1:G:137:VAL:HG23	1:G:145:ARG:HH22	1.84	0.43
1:G:547:TYR:CZ	1:G:549:ASN:HB2	2.54	0.43
1:G:1615:GLU:HB2	1:G:1885:ILE:C	2.44	0.43
1:H:81:ASP:OD1	1:H:81:ASP:N	2.51	0.43
1:H:1031:SER:HB2	1:H:1037:LEU:HD11	1.99	0.43
1:H:1440:GLN:O	1:H:1444:VAL:HG13	2.19	0.43
1:H:1831:THR:O	1:H:1834:LEU:HB3	2.18	0.43
1:A:115:MET:SD	1:A:778:HIS:CE1	3.11	0.43
1:A:783:LEU:HA	1:A:786:LEU:HD12	1.99	0.43
1:A:1049:CYS:HA	1:A:1054:TYR:CD1	2.53	0.43
1:A:1502:VAL:O	1:A:1506:VAL:HG12	2.18	0.43
1:A:1771:TYR:CE1	1:A:1888:ARG:HG3	2.54	0.43
1:A:1987:LYS:HD3	1:A:1987:LYS:HA	1.79	0.43
1:A:2005:ARG:HH11	1:A:2009:ARG:HH12	1.66	0.43
1:C:726:LYS:O	1:C:727:PHE:C	2.60	0.43
1:C:954:THR:O	1:C:959:ARG:NH2	2.50	0.43
1:C:955:PRO:HG2	1:C:958:LEU:CD2	2.49	0.43
1:C:1434:GLN:HE22	1:C:1477:ILE:HA	1.83	0.43
1:C:1780:ALA:HB1	1:C:1784:HIS:HE1	1.83	0.43
1:D:551:LEU:CB	1:D:621:LEU:HB2	2.48	0.43
1:D:1142:LEU:CD1	1:D:1146:HIS:HE1	2.30	0.43
1:D:1769:PHE:HE1	1:D:1890:ARG:HE	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:394:PHE:C	1:B:462:GLN:H	2.26	0.43
1:B:485:LEU:O	1:B:488:ARG:HB2	2.19	0.43
1:B:982:ARG:HD3	1:B:982:ARG:C	2.44	0.43
1:B:1164:LEU:HB2	1:B:1165:TYR:CZ	2.54	0.43
1:E:259:GLN:NE2	1:E:446:PHE:HD2	2.16	0.43
1:E:574:VAL:HB	1:E:602:ALA:HB3	1.99	0.43
1:E:907:LEU:HB3	1:E:909:HIS:NE2	2.33	0.43
1:E:1478:ARG:HD3	1:E:1524:HIS:HB3	2.00	0.43
1:E:1710:LEU:HD22	1:E:1713:ILE:HD12	2.00	0.43
1:F:81:ASP:OD1	1:F:81:ASP:N	2.50	0.43
1:F:597:GLU:HG2	1:F:598:PHE:CD2	2.54	0.43
1:F:783:LEU:HD13	1:F:808:MET:HG3	2.01	0.43
1:F:814:LEU:HD12	1:F:815:VAL:N	2.33	0.43
1:F:1278:LEU:HD22	1:F:1281:LEU:HD12	1.99	0.43
1:F:1290:LEU:HD23	1:F:1290:LEU:HA	1.90	0.43
1:F:1503:LYS:CD	1:F:1554:LEU:HD22	2.46	0.43
1:F:1526:ARG:O	1:F:1529:LEU:HG	2.17	0.43
1:F:1574:ASP:OD1	1:F:1577:MET:HE3	2.19	0.43
1:F:1786:LEU:HD13	1:F:1822:ILE:HG12	1.99	0.43
1:F:1988:ASN:O	1:F:1992:ILE:HG12	2.18	0.43
1:G:294:GLU:OE2	1:G:533:LEU:HB2	2.19	0.43
1:G:386:ARG:CZ	1:G:650:LEU:HD13	2.48	0.43
1:G:788:ILE:HD11	1:G:844:GLY:H	1.83	0.43
1:G:1653:ASN:HD21	1:G:1880:HIS:HA	1.84	0.43
1:G:1742:SER:HB2	1:G:1744:TRP:CZ3	2.54	0.43
1:H:753:VAL:O	1:H:756:GLU:HG3	2.18	0.43
1:H:907:LEU:HB3	1:H:909:HIS:NE2	2.33	0.43
1:H:1038:LEU:HA	1:H:1041:ARG:HB2	2.01	0.43
1:H:1386:THR:O	1:H:1390:LEU:HG	2.19	0.43
1:H:1614:ALA:HB2	1:H:1699:LEU:HD11	2.01	0.43
1:H:2021:ARG:NE	1:H:2021:ARG:HA	2.33	0.43
1:A:715:SER:OG	1:A:718:HIS:N	2.52	0.43
1:A:835:TYR:O	1:A:839:ALA:N	2.38	0.43
1:A:909:HIS:CG	1:A:910:GLU:N	2.86	0.43
1:A:1937:SER:HB3	1:A:1977:PHE:CZ	2.53	0.43
1:C:47:LEU:HD11	1:C:1115:THR:HA	2.01	0.43
1:C:671:PRO:HA	1:C:709:VAL:O	2.19	0.43
1:C:974:SER:HA	1:C:977:LEU:HD12	2.00	0.43
1:C:1176:LEU:HA	1:C:1179:LEU:CD1	2.49	0.43
1:C:1993:GLY:O	1:C:1997:LYS:HG3	2.18	0.43
1:D:785:ARG:HH11	1:D:785:ARG:HA	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:798:VAL:CG1	1:D:800:LEU:HB2	2.49	0.43
1:D:979:VAL:HB	1:D:993:LEU:HD23	2.01	0.43
1:D:1035:ALA:O	1:D:1039:THR:OG1	2.26	0.43
1:D:1178:ARG:CG	1:D:1244:ALA:HA	2.49	0.43
1:D:1300:LYS:HD3	1:D:1300:LYS:HA	1.65	0.43
1:D:1695:THR:O	1:D:1700:TYR:HE1	2.02	0.43
1:D:1725:ALA:HB1	1:D:1729:LYS:NZ	2.33	0.43
1:D:1931:GLN:NE2	1:D:1932:MET:HG2	2.34	0.43
1:D:2009:ARG:HA	1:D:2012:GLU:HG3	1.99	0.43
1:B:45:VAL:HG11	1:B:1104:ARG:NH1	2.34	0.43
1:B:137:VAL:HG13	1:B:240:GLU:OE2	2.19	0.43
1:B:390:TYR:O	1:B:391:ARG:NH1	2.51	0.43
1:B:960:PHE:HB2	1:B:965:LEU:HD21	2.01	0.43
1:B:1015:SER:HA	1:B:1018:ARG:CZ	2.49	0.43
1:B:1042:MET:O	1:B:1043:GLU:C	2.61	0.43
1:B:1130:LEU:O	1:B:1134:LYS:HG2	2.19	0.43
1:B:1686:LEU:HA	1:B:1689:GLN:HG3	2.00	0.43
1:B:1756:PHE:O	1:B:1766:GLU:N	2.47	0.43
1:E:550:LEU:O	1:E:551:LEU:HD23	2.19	0.43
1:E:1008:VAL:O	1:E:1010:ARG:HD2	2.19	0.43
1:E:1013:VAL:O	1:E:1017:VAL:HG23	2.18	0.43
1:E:1699:LEU:HB3	1:E:1702:ALA:HB3	2.01	0.43
1:F:281:LEU:HB2	1:F:296:PHE:HB3	2.00	0.43
1:F:727:PHE:HA	1:F:730:LEU:HD22	1.99	0.43
1:F:788:ILE:HD12	1:F:842:LEU:HG	2.00	0.43
1:F:956:ARG:O	1:F:1009:ASP:HB2	2.18	0.43
1:F:1428:GLN:OE1	1:F:1433:LEU:HD21	2.18	0.43
1:F:1565:THR:HA	1:F:1568:MET:HE3	2.00	0.43
1:F:1769:PHE:CD2	1:F:1888:ARG:HD2	2.53	0.43
1:F:1866:LEU:HB2	1:F:1867:PRO:HD3	2.01	0.43
1:G:143:ARG:O	1:G:147:LYS:HG2	2.19	0.43
1:G:261:ILE:HD12	1:G:327:PHE:HB2	2.01	0.43
1:G:512:SER:HB3	1:G:518:ILE:HD11	2.01	0.43
1:G:1529:LEU:O	1:G:1532:ILE:HG22	2.19	0.43
1:G:1749:GLY:HA2	1:G:1774:PRO:HA	2.00	0.43
1:G:1804:ASP:OD2	1:G:1808:VAL:HB	2.19	0.43
1:G:1900:THR:O	1:G:1904:VAL:HG23	2.19	0.43
1:G:1999:TYR:CE2	1:G:2003:LEU:HD11	2.53	0.43
1:H:309:LEU:HD11	1:H:391:ARG:NH2	2.34	0.43
1:H:394:PHE:O	1:H:462:GLN:N	2.32	0.43
1:H:719:PRO:HA	1:H:775:PHE:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1260:VAL:O	1:H:1264:THR:HG23	2.19	0.43
1:H:1265:GLU:OE2	1:H:1268:LEU:HB2	2.19	0.43
1:H:1575:PRO:O	1:H:1579:ILE:HG12	2.17	0.43
1:H:1729:LYS:HA	1:H:1732:GLU:CG	2.48	0.43
1:H:1752:PHE:HE2	1:H:1773:GLU:HB3	1.84	0.43
1:H:1769:PHE:CB	1:H:1771:TYR:HE1	2.32	0.43
1:A:148:GLY:C	1:A:149:LEU:HD22	2.44	0.43
1:A:260:ARG:C	1:A:261:ILE:HG13	2.44	0.43
1:A:283:LEU:HD11	1:A:401:LEU:HD12	2.01	0.43
1:A:909:HIS:HD1	1:A:964:PHE:HD1	1.66	0.43
1:A:982:ARG:HH22	1:A:985:LYS:CB	2.31	0.43
1:A:1033:ASN:OD1	1:A:1035:ALA:HB3	2.19	0.43
1:A:1150:PRO:HG2	1:A:1151:ARG:NH1	2.34	0.43
1:C:287:ARG:H	1:C:335:ASP:HB2	1.84	0.43
1:C:473:PHE:HA	1:C:476:LEU:HD12	2.00	0.43
1:C:932:TRP:CG	1:C:933:PHE:H	2.37	0.43
1:C:1409:ARG:HD2	1:C:1413:LEU:HD13	2.01	0.43
1:C:1533:LEU:HD11	1:C:1555:MET:HE3	2.01	0.43
1:C:1653:ASN:HB3	1:C:1656:GLU:OE2	2.18	0.43
1:C:1900:THR:O	1:C:1904:VAL:HG23	2.18	0.43
1:C:1967:HIS:HB3	1:C:1971:ARG:HH21	1.83	0.43
1:C:1985:LEU:O	1:C:2000:HIS:NE2	2.45	0.43
1:D:54:LEU:HD13	1:D:1105:GLN:HB3	2.01	0.43
1:D:146:GLN:C	1:D:149:LEU:HD23	2.44	0.43
1:D:155:GLU:OE1	1:D:1473:ARG:HB2	2.19	0.43
1:D:550:LEU:O	1:D:713:ALA:HB1	2.18	0.43
1:D:777:HIS:O	1:D:780:LEU:HG	2.18	0.43
1:D:1122:GLU:HG3	1:D:1125:ALA:H	1.84	0.43
1:D:1869:GLN:HE21	1:D:1870:HIS:C	2.25	0.43
1:D:1886:LYS:HD2	1:D:1886:LYS:HA	1.88	0.43
1:B:230:ALA:O	1:B:233:THR:OG1	2.36	0.43
1:B:998:ALA:O	1:B:999:PHE:C	2.62	0.43
1:B:1025:ALA:CA	1:B:1041:ARG:HH12	2.31	0.43
1:B:1040:LEU:HD13	1:B:1043:GLU:OE1	2.19	0.43
1:B:1090:ASP:OD2	1:B:1092:LYS:HB3	2.19	0.43
1:B:1129:PHE:HA	1:B:1132:HIS:HD1	1.83	0.43
1:B:1829:PHE:HB3	1:B:1834:LEU:HB2	2.00	0.43
1:E:92:CYS:O	1:E:519:LYS:NZ	2.39	0.43
1:E:145:ARG:NH2	1:E:1148:THR:HA	2.34	0.43
1:E:480:ARG:HG3	1:E:481:ARG:HD3	2.00	0.43
1:E:916:TRP:CH2	1:E:938:MET:HE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1371:LYS:HE3	1:F:488:ARG:HG2	1.99	0.43
1:F:485:LEU:HD23	1:F:485:LEU:HA	1.82	0.43
1:F:526:GLY:O	1:F:528:PRO:HD3	2.19	0.43
1:F:908:LEU:HD21	1:F:937:LEU:HB3	2.00	0.43
1:F:1253:LEU:O	1:F:1257:VAL:HG23	2.18	0.43
1:F:1401:GLN:HA	1:F:1404:MET:CE	2.48	0.43
1:G:964:PHE:O	1:G:968:ILE:HG12	2.17	0.43
1:G:1518:GLN:HB3	1:G:1569:LYS:CE	2.48	0.43
1:G:1802:ILE:HD11	1:G:1819:TYR:HB3	2.00	0.43
1:H:1248:GLU:OE2	1:H:1252:THR:OG1	2.37	0.43
1:H:1593:PRO:HG2	1:H:1673:CYS:SG	2.58	0.43
1:H:1853:CYS:HB3	1:H:1871:LYS:CE	2.45	0.43
1:A:338:LEU:N	1:A:399:VAL:O	2.45	0.43
1:A:668:ARG:O	1:A:669:THR:OG1	2.27	0.43
1:A:698:ARG:HG2	1:A:699:TRP:H	1.84	0.43
1:A:754:GLU:O	1:A:757:LEU:HB2	2.19	0.43
1:A:755:GLN:HG2	1:A:756:GLU:H	1.83	0.43
1:A:758:ARG:HA	1:A:761:LEU:HD12	2.00	0.43
1:A:1146:HIS:HD1	1:A:1146:HIS:H	1.66	0.43
1:A:1467:LEU:HG	1:A:1513:LEU:HD22	2.01	0.43
1:A:1684:VAL:O	1:A:1688:GLU:OE1	2.37	0.43
1:A:1686:LEU:HA	1:A:1689:GLN:HG3	2.01	0.43
1:A:2014:LEU:HB3	1:A:2018:LEU:HG	2.00	0.43
1:C:558:LEU:HD12	1:C:559:ASN:N	2.33	0.43
1:C:1090:ASP:OD2	1:C:1092:LYS:HB3	2.19	0.43
1:D:244:VAL:HG11	1:D:1050:SER:HB2	2.01	0.43
1:D:742:ARG:H	1:D:742:ARG:HD3	1.84	0.43
1:D:919:SER:HB3	1:D:924:ARG:HG2	2.00	0.43
1:D:982:ARG:HG3	1:D:986:ASP:O	2.19	0.43
1:D:1450:LEU:CD1	1:D:1454:GLU:HB2	2.49	0.43
1:D:1933:VAL:O	1:D:1937:SER:OG	2.32	0.43
1:D:1965:ARG:HG3	1:D:1966:HIS:ND1	2.34	0.43
1:B:224:ARG:HD2	1:B:224:ARG:HA	1.80	0.43
1:B:246:ARG:O	1:B:826:ARG:NH2	2.52	0.43
1:B:754:GLU:OE1	1:B:755:GLN:NE2	2.52	0.43
1:B:907:LEU:HB3	1:B:909:HIS:CD2	2.54	0.43
1:B:966:ASP:HA	1:B:969:THR:OG1	2.18	0.43
1:B:1157:VAL:O	1:B:1161:VAL:HG23	2.19	0.43
1:B:1391:VAL:HA	1:B:1394:ASP:OD2	2.19	0.43
1:B:1817:LYS:HB3	1:B:1819:TYR:CE2	2.54	0.43
1:B:1830:ASP:O	1:B:1834:LEU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:156:GLN:HE21	1:E:1297:TYR:HD2	1.65	0.43
1:E:224:ARG:HA	1:E:227:ARG:HD2	2.01	0.43
1:E:331:TYR:HD2	1:E:537:ALA:HB3	1.84	0.43
1:E:490:ARG:HA	1:E:491:PRO:HD3	1.92	0.43
1:E:976:GLY:O	1:E:980:ILE:HD12	2.18	0.43
1:E:1097:PHE:O	1:E:1167:PRO:HA	2.19	0.43
1:E:1113:LEU:HA	1:E:1116:GLU:OE2	2.19	0.43
1:E:1561:ILE:HA	1:E:1564:ASP:OD2	2.19	0.43
1:E:1856:PHE:HZ	1:E:1898:VAL:HG22	1.83	0.43
1:F:1854:THR:OG1	1:F:1872:ARG:HB3	2.19	0.43
1:G:231:LEU:HB2	1:G:1262:LYS:NZ	2.34	0.43
1:G:269:LYS:NZ	1:G:497:LYS:HE3	2.34	0.43
1:G:484:SER:HB2	1:H:1370:THR:N	2.34	0.43
1:G:1951:GLN:CD	1:G:2017:LEU:HD11	2.43	0.43
1:H:327:PHE:CD1	1:H:532:ILE:HG13	2.54	0.43
1:H:805:PHE:HA	1:H:808:MET:HG3	2.01	0.43
1:H:1548:ALA:O	1:H:1552:GLN:HG2	2.19	0.43
1:A:122:ILE:HD13	1:A:838:TYR:HA	2.00	0.43
1:A:128:GLN:HG2	1:A:134:TYR:CD2	2.54	0.43
1:A:337:PHE:CE2	1:A:398:ALA:HB1	2.54	0.43
1:A:915:GLN:NE2	1:A:916:TRP:HD1	2.17	0.43
1:A:1249:SER:OG	1:A:1250:SER:N	2.50	0.43
1:A:1710:LEU:HA	1:A:1713:ILE:HD12	2.00	0.43
1:C:227:ARG:HH21	1:C:1391:VAL:HG12	1.84	0.43
1:C:519:LYS:HE2	1:C:519:LYS:HB2	1.88	0.43
1:C:527:ARG:HD3	1:C:528:PRO:HD2	2.00	0.43
1:C:794:SER:OG	1:C:796:GLN:OE1	2.22	0.43
1:C:898:GLU:O	1:C:901:ARG:HG2	2.19	0.43
1:C:924:ARG:HH21	1:B:924:ARG:HH12	1.67	0.43
1:C:1038:LEU:HA	1:C:1041:ARG:HB2	2.01	0.43
1:C:1294:ALA:O	1:C:1298:LYS:NZ	2.48	0.43
1:C:1487:LEU:CD1	1:C:1491:GLN:HE22	2.31	0.43
1:C:1709:ASN:OD1	1:C:1713:ILE:HD11	2.18	0.43
1:C:1745:GLU:O	1:C:1746:ARG:HD2	2.18	0.43
1:C:1830:ASP:H	1:C:1833:GLU:CD	2.26	0.43
1:D:47:LEU:HD23	1:D:1119:LEU:HD21	2.01	0.43
1:D:783:LEU:HD22	1:D:808:MET:HG3	2.00	0.43
1:D:988:GLU:H	1:D:988:GLU:CD	2.16	0.43
1:D:1254:LEU:O	1:D:1258:LEU:HD23	2.19	0.43
1:D:1437:LEU:HD11	1:D:1480:HIS:C	2.44	0.43
1:D:1579:ILE:HD11	1:D:1606:LYS:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1870:HIS:NE2	1:D:1901:PRO:HD3	2.34	0.43
1:B:81:ASP:O	1:B:126:ARG:NE	2.49	0.43
1:B:781:ASP:HB3	1:B:782:LYS:NZ	2.34	0.43
1:B:793:ILE:HB	1:B:796:GLN:NE2	2.34	0.43
1:B:1113:LEU:H	1:B:1113:LEU:HD12	1.84	0.43
1:B:1113:LEU:HA	1:B:1116:GLU:OE1	2.19	0.43
1:B:1409:ARG:HD2	1:B:1413:LEU:CD1	2.49	0.43
1:B:1450:LEU:HA	1:B:1453:GLU:HG3	2.00	0.43
1:B:1619:CYS:C	1:B:1620:MET:HE2	2.43	0.43
1:B:1671:GLY:HA2	1:B:1674:SER:HB3	2.01	0.43
1:E:87:LEU:HD13	1:E:121:VAL:HG12	2.01	0.43
1:E:550:LEU:HD13	1:E:620:LYS:HD2	2.00	0.43
1:E:663:GLN:N	1:E:666:ARG:O	2.52	0.43
1:E:727:PHE:CZ	1:E:779:VAL:HA	2.54	0.43
1:E:1143:LEU:HD12	1:E:1256:CYS:HB3	2.01	0.43
1:E:1289:TYR:HB2	1:E:1419:VAL:HG22	2.00	0.43
1:E:1492:ASN:ND2	1:E:1499:PHE:HA	2.33	0.43
1:E:1737:ILE:O	1:E:1741:SER:OG	2.37	0.43
1:F:84:GLU:HB2	1:F:126:ARG:NH2	2.34	0.43
1:F:93:ARG:HB2	1:F:518:ILE:HD12	2.00	0.43
1:F:466:ARG:NH1	1:F:615:PHE:HA	2.34	0.43
1:F:490:ARG:H	1:F:490:ARG:CD	2.31	0.43
1:F:1769:PHE:HB3	1:F:1888:ARG:HB2	2.01	0.43
1:G:283:LEU:HD11	1:G:401:LEU:HG	2.01	0.43
1:G:983:VAL:HA	1:G:986:ASP:O	2.19	0.43
1:G:1265:GLU:OE2	1:G:1268:LEU:HB2	2.19	0.43
1:G:1706:VAL:O	1:G:1710:LEU:HD23	2.19	0.43
1:G:1856:PHE:HE1	1:G:1872:ARG:NE	2.17	0.43
1:G:1908:ASP:HA	1:G:1911:LYS:HB3	2.01	0.43
1:H:283:LEU:O	1:H:293:SER:OG	2.32	0.43
1:H:290:LYS:HZ3	1:H:535:PHE:HD2	1.65	0.43
1:H:539:GLU:HB2	1:H:770:GLU:CG	2.44	0.43
1:H:932:TRP:CD2	1:H:933:PHE:N	2.87	0.43
1:H:1009:ASP:O	1:H:1013:VAL:HG23	2.19	0.43
1:H:1740:GLN:CD	1:H:1746:ARG:HD3	2.43	0.43
1:A:100:PRO:HB2	1:A:105:LEU:HD21	2.01	0.42
1:A:250:PRO:O	1:A:838:TYR:OH	2.36	0.42
1:A:268:LEU:HD21	1:A:270:PHE:CZ	2.54	0.42
1:A:1015:SER:O	1:A:1018:ARG:HD3	2.19	0.42
1:A:1061:CYS:HA	1:A:1160:ARG:NH1	2.34	0.42
1:A:1170:SER:HB3	1:A:1173:ARG:NH1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1993:GLY:N	1:A:1995:ASP:OD1	2.48	0.42
1:C:521:TYR:CE2	1:C:524:PRO:HA	2.54	0.42
1:C:623:LEU:HG	1:C:624:PRO:O	2.19	0.42
1:C:721:ASP:CG	1:C:722:PRO:HD2	2.44	0.42
1:C:1281:LEU:O	1:C:1284:LEU:HB3	2.18	0.42
1:C:1300:LYS:HA	1:C:1300:LYS:HD3	1.69	0.42
1:C:1370:THR:N	1:C:1373:GLU:OE1	2.52	0.42
1:C:1442:ALA:O	1:C:1445:SER:HB3	2.19	0.42
1:C:1522:GLU:HG2	1:C:1526:ARG:HE	1.84	0.42
1:C:1738:MET:HE1	1:D:1724:ALA:HB2	2.00	0.42
1:C:1803:LYS:C	1:C:1803:LYS:HD3	2.44	0.42
1:D:259:GLN:CG	1:D:329:VAL:HB	2.49	0.42
1:D:722:PRO:HG2	1:D:723:TYR:CD2	2.54	0.42
1:D:1011:GLY:O	1:D:1014:PHE:HB2	2.19	0.42
1:D:1409:ARG:HA	1:D:1412:VAL:HB	2.01	0.42
1:D:1442:ALA:O	1:D:1445:SER:HB3	2.19	0.42
1:D:1620:MET:HB3	1:D:1690:ALA:HB2	2.01	0.42
1:D:1663:ASP:H	1:H:1835:LYS:HZ3	1.67	0.42
1:D:1748:PHE:HD2	1:D:1840:TYR:HE2	1.67	0.42
1:D:1871:LYS:HB3	1:D:1899:LEU:HB2	2.00	0.42
1:D:1906:ILE:CD1	1:D:1966:HIS:HB3	2.48	0.42
1:B:277:ILE:HG12	1:B:344:LYS:CD	2.47	0.42
1:B:466:ARG:HH11	1:B:615:PHE:HA	1.84	0.42
1:B:573:ARG:HH21	1:B:575:GLN:HG2	1.84	0.42
1:B:1546:THR:OG1	1:B:1550:GLN:HB2	2.19	0.42
1:B:1604:ALA:HB2	1:B:1620:MET:CE	2.43	0.42
1:B:1613:HIS:HB3	1:B:1696:MET:SD	2.60	0.42
1:B:1800:GLU:O	1:B:1820:ILE:N	2.52	0.42
1:E:911:GLU:HB2	1:E:915:GLN:HE22	1.83	0.42
1:E:1440:GLN:O	1:E:1444:VAL:HG13	2.18	0.42
1:E:1573:GLU:OE1	1:E:1573:GLU:N	2.28	0.42
1:E:1613:HIS:CE1	1:E:1696:MET:HE1	2.54	0.42
1:E:1773:GLU:CD	1:E:1774:PRO:HD2	2.44	0.42
1:F:346:LEU:O	1:F:383:PHE:HB3	2.20	0.42
1:F:573:ARG:HD3	1:F:638:TYR:HE2	1.84	0.42
1:F:912:LEU:HD23	1:F:938:MET:SD	2.58	0.42
1:F:1756:PHE:HD1	1:F:1761:PHE:CE2	2.37	0.42
1:F:1889:ILE:HG13	1:F:1890:ARG:N	2.34	0.42
1:F:2008:CYS:SG	1:F:2009:ARG:N	2.92	0.42
1:G:1934:LEU:O	1:G:1938:VAL:HG22	2.18	0.42
1:H:125:ARG:HB2	1:H:128:GLN:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:341:LYS:HE2	1:H:462:GLN:NE2	2.31	0.42
1:H:660:PRO:HB2	1:H:668:ARG:HH21	1.84	0.42
1:H:1494:GLU:OE2	1:H:1542:LEU:HD11	2.19	0.42
1:H:1721:LYS:HD3	1:H:1721:LYS:N	2.34	0.42
1:A:284:TYR:CD2	1:A:291:LYS:HA	2.54	0.42
1:A:590:PHE:HB2	1:A:620:LYS:HG2	2.01	0.42
1:A:982:ARG:HH22	1:A:985:LYS:HB3	1.84	0.42
1:A:1016:LEU:O	1:A:1019:ALA:HB3	2.19	0.42
1:A:1150:PRO:HG2	1:A:1151:ARG:HH12	1.84	0.42
1:C:282:ALA:HB3	1:C:284:TYR:CZ	2.54	0.42
1:C:579:GLY:HA2	1:C:630:ASN:CB	2.44	0.42
1:C:743:LEU:HB3	1:C:744:LYS:H	1.60	0.42
1:C:743:LEU:HD23	1:C:748:LEU:HD11	2.02	0.42
1:C:1059:LEU:HG	1:C:1062:CYS:SG	2.60	0.42
1:C:1832:TYR:HA	1:E:1661:SER:HB3	2.02	0.42
1:D:459:PHE:O	1:D:491:PRO:HA	2.18	0.42
1:D:1160:ARG:HA	1:D:1163:GLU:CD	2.44	0.42
1:D:1503:LYS:O	1:D:1506:VAL:HG12	2.19	0.42
1:D:1727:HIS:O	1:D:1731:GLN:HG2	2.19	0.42
1:B:53:PRO:HB3	1:B:1108:PHE:CD1	2.54	0.42
1:B:1036:ALA:O	1:B:1039:THR:HB	2.19	0.42
1:B:1038:LEU:HD23	1:B:1041:ARG:CD	2.49	0.42
1:B:1902:VAL:HG22	1:B:1953:PHE:CE1	2.54	0.42
1:E:550:LEU:HA	1:E:621:LEU:O	2.18	0.42
1:E:916:TRP:HE3	1:E:971:LEU:HD11	1.83	0.42
1:E:1054:TYR:CD2	1:E:1109:LEU:HD23	2.54	0.42
1:E:1254:LEU:HD13	1:E:1254:LEU:HA	1.93	0.42
1:E:1254:LEU:HD11	1:E:1287:LEU:HD21	2.01	0.42
1:E:1768:GLU:H	1:E:1890:ARG:NE	2.18	0.42
1:F:587:PRO:HD3	1:F:600:ARG:NH2	2.34	0.42
1:F:802:ARG:O	1:F:806:GLU:HG3	2.19	0.42
1:F:1254:LEU:HB3	1:F:1291:CYS:SG	2.59	0.42
1:F:1564:ASP:OD2	1:F:1585:ILE:HD13	2.20	0.42
1:F:1738:MET:HE2	1:G:1721:LYS:HG3	2.00	0.42
1:F:1768:GLU:CG	1:F:1890:ARG:HE	2.32	0.42
1:F:1876:LEU:HD12	1:F:1891:VAL:HG11	2.02	0.42
1:F:1893:HIS:HB3	1:F:1895:GLU:OE2	2.19	0.42
1:F:1963:LEU:HD13	1:F:1966:HIS:ND1	2.34	0.42
1:G:101:LYS:NZ	1:G:598:PHE:HE2	2.17	0.42
1:G:140:ASP:OD1	1:G:141:THR:N	2.52	0.42
1:G:608:TYR:HB2	1:G:642:CYS:SG	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:916:TRP:CD1	1:G:927:ILE:HD13	2.53	0.42
1:G:1064:LEU:HD11	1:G:1095:SER:HB2	2.00	0.42
1:G:1756:PHE:O	1:G:1757:TYR:HD1	2.02	0.42
1:H:248:SER:N	1:H:826:ARG:HH21	2.17	0.42
1:H:770:GLU:H	1:H:770:GLU:CD	2.27	0.42
1:H:976:GLY:O	1:H:979:VAL:N	2.52	0.42
1:H:1459:CYS:O	1:H:1462:LEU:HB3	2.19	0.42
1:H:1471:GLY:HA3	1:H:1520:PHE:CE1	2.54	0.42
1:H:1826:GLU:HG2	1:H:1851:LEU:O	2.18	0.42
1:A:571:ALA:HB2	1:A:606:VAL:HG22	2.01	0.42
1:A:575:GLN:CG	1:A:577:MET:HE3	2.49	0.42
1:A:790:PRO:O	1:A:903:LEU:HD11	2.19	0.42
1:A:1701:GLU:HG3	1:A:1841:PHE:CD2	2.55	0.42
1:A:1721:LYS:HE2	1:A:1721:LYS:HB2	1.84	0.42
1:C:298:PHE:CE1	1:C:300:LEU:HD12	2.54	0.42
1:C:327:PHE:HA	1:C:534:GLU:OE2	2.19	0.42
1:C:461:LYS:HZ1	1:C:463:GLU:HA	1.84	0.42
1:C:563:ARG:CZ	1:C:567:VAL:HB	2.48	0.42
1:C:723:TYR:N	1:C:723:TYR:CD1	2.85	0.42
1:C:742:ARG:O	1:C:742:ARG:NH1	2.44	0.42
1:C:781:ASP:HB2	1:C:782:LYS:NZ	2.33	0.42
1:C:1280:GLN:CD	1:C:1280:GLN:N	2.76	0.42
1:C:1578:LEU:O	1:C:1581:LEU:HG	2.20	0.42
1:C:1873:LYS:HG2	1:C:1897:THR:OG1	2.19	0.42
1:D:587:PRO:HB3	1:D:600:ARG:CZ	2.49	0.42
1:D:1265:GLU:OE1	1:D:1267:ALA:N	2.52	0.42
1:D:1457:GLU:HB3	1:D:1676:LYS:HE2	2.01	0.42
1:D:1828:TYR:HB3	1:D:1849:THR:HG22	2.01	0.42
1:D:1847:LEU:N	1:D:1882:PHE:O	2.43	0.42
1:D:1873:LYS:NZ	1:D:1899:LEU:HD21	2.34	0.42
1:B:271:GLU:HB2	1:B:493:THR:HG21	2.01	0.42
1:B:639:HIS:HB3	1:B:652:THR:OG1	2.19	0.42
1:B:774:ALA:O	1:B:777:HIS:HE1	2.01	0.42
1:B:911:GLU:O	1:B:915:GLN:HG3	2.19	0.42
1:B:996:SER:O	1:B:997:LEU:C	2.63	0.42
1:B:1486:TYR:HA	1:B:1489:MET:HE2	2.00	0.42
1:B:1760:HIS:HE1	1:B:1798:VAL:HG21	1.84	0.42
1:B:1784:HIS:O	1:B:1787:GLU:HB3	2.19	0.42
1:E:778:HIS:O	1:E:782:LYS:HE2	2.20	0.42
1:E:1039:THR:O	1:E:1043:GLU:HG2	2.19	0.42
1:E:1254:LEU:HD12	1:E:1291:CYS:SG	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1754:VAL:HG21	1:E:1771:TYR:CE2	2.54	0.42
1:E:1854:THR:O	1:E:1854:THR:OG1	2.36	0.42
1:F:976:GLY:O	1:F:980:ILE:HG12	2.18	0.42
1:F:1101:GLY:O	1:F:1105:GLN:HG3	2.19	0.42
1:G:347:GLN:O	1:G:642:CYS:HB3	2.20	0.42
1:G:393:PRO:HB3	1:G:616:TYR:HE1	1.83	0.42
1:G:1042:MET:HE1	1:G:1135:ALA:HB2	2.01	0.42
1:G:1679:THR:OG1	1:G:1681:LEU:HG	2.20	0.42
1:G:1735:THR:HG23	1:G:1738:MET:CE	2.44	0.42
1:H:227:ARG:HH21	1:H:1391:VAL:HG12	1.83	0.42
1:H:663:GLN:HG2	1:H:664:HIS:HD2	1.81	0.42
1:H:733:VAL:HG22	1:H:739:PHE:HE1	1.83	0.42
1:H:927:ILE:O	1:H:931:ALA:CB	2.58	0.42
1:H:1393:LEU:O	1:H:1396:LEU:HG	2.19	0.42
1:H:1596:ARG:O	1:H:1600:LEU:HD13	2.19	0.42
1:H:1882:PHE:HZ	1:H:1888:ARG:HA	1.84	0.42
1:H:1963:LEU:HA	1:H:1966:HIS:HD2	1.84	0.42
1:A:144:GLU:OE1	1:A:145:ARG:HD3	2.19	0.42
1:A:1425:GLY:HA2	1:A:1469:HIS:CE1	2.54	0.42
1:A:1468:ARG:NH2	1:A:1513:LEU:HB2	2.34	0.42
1:A:1496:GLY:C	1:A:1498:ASN:H	2.26	0.42
1:A:1684:VAL:O	1:A:1687:LEU:HB2	2.19	0.42
1:A:1872:ARG:HG2	1:A:1898:VAL:HG22	2.00	0.42
1:C:50:VAL:HG23	1:C:1104:ARG:HE	1.84	0.42
1:C:573:ARG:HB2	1:C:603:PHE:CE2	2.55	0.42
1:C:790:PRO:CG	1:C:797:ILE:HD12	2.47	0.42
1:C:1018:ARG:NH1	1:C:1019:ALA:HB2	2.34	0.42
1:C:1526:ARG:NH2	1:C:1563:THR:HG22	2.34	0.42
1:C:1909:MET:HE2	1:C:1946:PRO:HA	2.01	0.42
1:D:332:PRO:HB2	1:D:444:CYS:O	2.18	0.42
1:D:344:LYS:HG3	1:D:394:PHE:HB2	2.00	0.42
1:D:567:VAL:HG22	1:D:639:HIS:CD2	2.54	0.42
1:D:777:HIS:ND1	1:D:777:HIS:N	2.67	0.42
1:D:1447:PHE:CE2	1:D:1449:GLU:HB2	2.55	0.42
1:D:1617:ALA:HB2	1:D:1693:TYR:HB3	2.02	0.42
1:D:1871:LYS:HG2	1:D:1899:LEU:HD12	2.00	0.42
1:D:1962:LYS:HG3	1:D:1963:LEU:HD22	2.01	0.42
1:B:576:TYR:O	1:B:577:MET:HE2	2.19	0.42
1:B:803:GLY:HA2	1:B:806:GLU:OE1	2.18	0.42
1:B:1009:ASP:O	1:B:1013:VAL:HG23	2.20	0.42
1:B:1404:MET:N	1:B:1409:ARG:HH21	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1503:LYS:O	1:B:1506:VAL:HG12	2.20	0.42
1:E:82:ASP:O	1:E:126:ARG:HG2	2.19	0.42
1:E:124:HIS:NE2	1:E:126:ARG:HA	2.35	0.42
1:E:323:ARG:HE	1:E:527:ARG:NH1	2.18	0.42
1:E:476:LEU:O	1:E:479:MET:HB3	2.20	0.42
1:E:914:LEU:HD21	1:E:967:ASP:OD2	2.19	0.42
1:E:1052:GLU:HG3	1:E:1053:HIS:N	2.34	0.42
1:E:1104:ARG:HD3	1:E:1112:LEU:HD23	2.00	0.42
1:E:1701:GLU:O	1:E:1705:GLU:OE1	2.36	0.42
1:F:280:ILE:HG12	1:F:297:TYR:HD1	1.84	0.42
1:F:386:ARG:NH1	1:F:650:LEU:HD13	2.34	0.42
1:F:754:GLU:HG2	1:F:798:VAL:HG11	2.01	0.42
1:F:1045:THR:O	1:F:1048:LEU:HG	2.18	0.42
1:F:1090:ASP:OD2	1:F:1093:VAL:HG13	2.18	0.42
1:F:1645:VAL:O	1:F:1648:GLN:HB3	2.20	0.42
1:F:1931:GLN:HG2	1:F:1988:ASN:HD21	1.82	0.42
1:G:232:LEU:HB2	1:G:1147:ASP:OD2	2.19	0.42
1:G:660:PRO:O	1:G:668:ARG:NE	2.44	0.42
1:G:976:GLY:O	1:G:977:LEU:C	2.62	0.42
1:G:982:ARG:HH22	1:G:985:LYS:HE2	1.83	0.42
1:G:1631:LEU:HD22	1:G:1683:LEU:CD1	2.49	0.42
1:G:1760:HIS:ND1	1:G:1798:VAL:HG11	2.35	0.42
1:G:1954:LEU:HD23	1:G:1967:HIS:CD2	2.55	0.42
1:H:969:THR:HG23	1:H:1016:LEU:HD22	2.01	0.42
1:H:1052:GLU:HG3	1:H:1053:HIS:N	2.34	0.42
1:H:1292:LEU:HD21	1:H:1423:SER:N	2.35	0.42
1:H:1751:TYR:OH	1:H:1847:LEU:HD12	2.19	0.42
1:H:1901:PRO:HA	1:H:1904:VAL:HB	2.01	0.42
1:A:338:LEU:HB2	1:A:401:LEU:HD11	2.01	0.42
1:A:466:ARG:HD3	1:A:616:TYR:CE1	2.54	0.42
1:A:742:ARG:N	1:A:748:LEU:HD13	2.34	0.42
1:A:783:LEU:CD2	1:A:804:ALA:HB1	2.47	0.42
1:A:1129:PHE:CD2	1:A:1130:LEU:HG	2.55	0.42
1:A:1508:MET:HG3	1:A:1598:THR:HG21	2.00	0.42
1:A:1615:GLU:OE1	1:A:1615:GLU:N	2.52	0.42
1:A:1711:ILE:HG13	1:A:1712:PRO:CD	2.49	0.42
1:A:1975:LYS:HA	1:A:1975:LYS:HD3	1.83	0.42
1:C:47:LEU:HD23	1:C:1119:LEU:HD21	2.01	0.42
1:C:548:ARG:H	1:C:716:SER:HB3	1.84	0.42
1:C:741:PHE:CB	1:C:748:LEU:HD12	2.49	0.42
1:C:780:LEU:CB	1:C:808:MET:HE1	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1104:ARG:NH1	1:C:1104:ARG:HA	2.34	0.42
1:C:1104:ARG:HH12	1:C:1108:PHE:C	2.28	0.42
1:C:1409:ARG:HA	1:C:1412:VAL:HB	2.02	0.42
1:C:1813:LEU:HD22	1:C:1819:TYR:CD1	2.55	0.42
1:D:111:ALA:HA	1:D:114:GLU:CD	2.43	0.42
1:D:588:VAL:HG11	1:D:624:PRO:HG3	2.02	0.42
1:D:590:PHE:CD1	1:D:620:LYS:HG2	2.55	0.42
1:D:802:ARG:H	1:D:802:ARG:HG3	1.50	0.42
1:D:1505:GLN:O	1:D:1508:MET:HG2	2.19	0.42
1:B:115:MET:HE1	1:B:777:HIS:HD2	1.84	0.42
1:B:831:GLN:H	1:B:831:GLN:CD	2.26	0.42
1:B:1249:SER:OG	1:B:1250:SER:N	2.53	0.42
1:B:1260:VAL:O	1:B:1263:ASN:HB3	2.19	0.42
1:B:1590:GLN:HA	1:B:1596:ARG:HH11	1.83	0.42
1:B:1637:HIS:HB3	1:B:1639:HIS:CE1	2.54	0.42
1:B:1701:GLU:HG3	1:B:1841:PHE:CG	2.55	0.42
1:E:221:THR:HA	1:E:224:ARG:HG2	2.01	0.42
1:E:270:PHE:CZ	1:E:277:ILE:HD12	2.54	0.42
1:E:290:LYS:O	1:E:292:ILE:HG23	2.19	0.42
1:E:550:LEU:HB2	1:E:714:VAL:HG23	2.01	0.42
1:E:982:ARG:HD3	1:E:989:LEU:HD23	2.00	0.42
1:E:1440:GLN:NE2	1:E:1441:ARG:HG3	2.35	0.42
1:E:1925:PRO:HB2	1:E:1991:LEU:HD11	2.00	0.42
1:F:785:ARG:NH2	1:F:843:PRO:HD2	2.27	0.42
1:F:1270:GLN:OE1	1:F:1398:ILE:HD12	2.19	0.42
1:F:1499:PHE:O	1:F:1503:LYS:HG2	2.20	0.42
1:F:1596:ARG:HE	1:F:1626:LEU:HD21	1.84	0.42
1:F:1706:VAL:O	1:F:1710:LEU:HD23	2.20	0.42
1:F:1779:LEU:HD22	1:F:1824:TYR:HB3	2.01	0.42
1:G:601:GLU:OE1	1:G:601:GLU:N	2.52	0.42
1:G:1503:LYS:CD	1:G:1554:LEU:HD22	2.50	0.42
1:G:1800:GLU:HB2	1:G:1817:LYS:HG3	2.01	0.42
1:G:1882:PHE:CZ	1:G:1889:ILE:HG22	2.54	0.42
1:H:120:TRP:CH2	1:H:253:PRO:HB2	2.55	0.42
1:H:548:ARG:HD2	1:H:548:ARG:O	2.19	0.42
1:H:1012:PHE:O	1:H:1016:LEU:HG	2.19	0.42
1:H:1283:ARG:O	1:H:1287:LEU:HD23	2.19	0.42
1:H:1698:GLY:HA2	1:H:1700:TYR:OH	2.19	0.42
1:A:509:PHE:O	1:A:529:THR:N	2.53	0.42
1:A:1023:GLN:O	1:A:1027:ARG:HG2	2.20	0.42
1:A:1871:LYS:HB3	1:A:1899:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:268:LEU:HD12	1:C:495:GLN:O	2.19	0.42
1:C:344:LYS:HG3	1:C:394:PHE:HB2	2.00	0.42
1:C:532:ILE:HB	1:C:534:GLU:HG3	2.02	0.42
1:C:727:PHE:CZ	1:C:782:LYS:HB2	2.55	0.42
1:C:980:ILE:O	1:C:981:THR:C	2.62	0.42
1:C:985:LYS:HE2	1:C:985:LYS:HA	2.02	0.42
1:C:1463:CYS:O	1:C:1467:LEU:HG	2.19	0.42
1:C:1772:LYS:O	1:C:1887:THR:OG1	2.36	0.42
1:D:257:PHE:CD1	1:D:260:ARG:HG2	2.54	0.42
1:D:307:GLY:HA2	1:D:310:ARG:HG2	2.01	0.42
1:D:1630:TYR:CZ	1:D:1634:LEU:HD21	2.54	0.42
1:D:1698:GLY:HA2	1:D:1700:TYR:CZ	2.55	0.42
1:D:1854:THR:OG1	1:D:1854:THR:O	2.38	0.42
1:B:1143:LEU:HD23	1:B:1146:HIS:CG	2.55	0.42
1:B:1578:LEU:HD12	1:B:1578:LEU:HA	1.90	0.42
1:E:81:ASP:OD1	1:E:81:ASP:N	2.51	0.42
1:E:125:ARG:HH22	1:E:1003:ASP:HA	1.83	0.42
1:E:513:PRO:O	1:E:620:LYS:NZ	2.51	0.42
1:E:574:VAL:HG22	1:E:635:PHE:CD1	2.54	0.42
1:E:575:GLN:NE2	1:E:601:GLU:OE2	2.50	0.42
1:E:673:CYS:HA	1:E:707:PHE:O	2.19	0.42
1:E:770:GLU:H	1:E:770:GLU:CD	2.27	0.42
1:E:1876:LEU:HD13	1:E:1894:ARG:HA	2.01	0.42
1:F:282:ALA:HB2	1:F:295:ASN:HA	2.02	0.42
1:F:1725:ALA:O	1:F:1729:LYS:HG3	2.19	0.42
1:F:1951:GLN:HE22	1:F:2016:PRO:HG2	1.84	0.42
1:F:1965:ARG:HG3	1:F:1966:HIS:N	2.33	0.42
1:G:239:ASP:OD1	1:G:239:ASP:N	2.53	0.42
1:G:956:ARG:HA	1:G:959:ARG:HB2	2.00	0.42
1:G:1005:LEU:HD23	1:G:1010:ARG:HA	2.01	0.42
1:G:1028:LEU:HD23	1:G:1037:LEU:HD23	2.00	0.42
1:G:1686:LEU:HG	1:G:1689:GLN:HE21	1.84	0.42
1:H:290:LYS:O	1:H:292:ILE:HG23	2.18	0.42
1:H:699:TRP:CD1	1:H:703:HIS:HD1	2.37	0.42
1:H:914:LEU:HD21	1:H:967:ASP:OD2	2.19	0.42
1:H:1559:HIS:CD2	1:H:1562:LEU:HD12	2.55	0.42
1:H:1693:TYR:CD1	1:H:1693:TYR:N	2.87	0.42
1:A:113:VAL:O	1:A:117:ILE:HG12	2.20	0.42
1:A:471:ASP:N	1:A:471:ASP:OD1	2.53	0.42
1:A:715:SER:HB3	1:A:718:HIS:O	2.20	0.42
1:A:782:LYS:HD3	1:A:785:ARG:NH2	2.29	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:798:VAL:HG13	1:A:800:LEU:HD23	2.01	0.42
1:A:1097:PHE:CZ	1:A:1268:LEU:HD12	2.55	0.42
1:A:1160:ARG:HA	1:A:1163:GLU:CD	2.45	0.42
1:A:1175:THR:O	1:A:1179:LEU:HG	2.20	0.42
1:C:202:LEU:HB3	1:C:1535:TYR:CE2	2.55	0.42
1:C:278:PHE:HE1	1:C:391:ARG:HH21	1.67	0.42
1:C:331:TYR:HD2	1:C:537:ALA:HB3	1.85	0.42
1:C:916:TRP:HZ2	1:C:934:PHE:HD2	1.68	0.42
1:C:1099:LEU:N	1:C:1167:PRO:HG3	2.35	0.42
1:C:1162:ALA:C	1:C:1164:LEU:N	2.77	0.42
1:C:1468:ARG:HG3	1:C:1520:PHE:HZ	1.85	0.42
1:D:231:LEU:HD22	1:D:1259:TRP:CD1	2.53	0.42
1:D:569:ASN:H	1:D:639:HIS:CE1	2.38	0.42
1:D:623:LEU:HD12	1:D:624:PRO:HD2	2.02	0.42
1:D:671:PRO:HA	1:D:709:VAL:O	2.20	0.42
1:D:777:HIS:HA	1:D:780:LEU:HD21	2.00	0.42
1:D:780:LEU:O	1:D:784:VAL:HG23	2.20	0.42
1:D:997:LEU:O	1:D:1000:PHE:HB3	2.20	0.42
1:D:1033:ASN:C	1:D:1035:ALA:N	2.77	0.42
1:D:1159:ALA:O	1:D:1163:GLU:HG3	2.19	0.42
1:D:1599:TRP:O	1:D:1602:ASN:HB2	2.19	0.42
1:D:1647:PHE:N	1:D:1647:PHE:CD1	2.87	0.42
1:D:1845:TYR:HA	1:D:1883:PRO:HD3	2.02	0.42
1:B:281:LEU:O	1:B:296:PHE:N	2.39	0.42
1:B:327:PHE:CZ	1:B:532:ILE:HG13	2.55	0.42
1:B:664:HIS:HB2	1:B:744:LYS:CD	2.44	0.42
1:B:958:LEU:HD23	1:B:958:LEU:H	1.85	0.42
1:B:1630:TYR:CE1	1:B:1665:LEU:HD21	2.54	0.42
1:B:1750:THR:HG23	1:B:1775:SER:HA	2.01	0.42
1:E:54:LEU:HD23	1:E:59:VAL:HG21	2.02	0.42
1:E:133:ALA:O	1:E:246:ARG:HG3	2.20	0.42
1:E:336:ILE:HD13	1:E:446:PHE:CZ	2.54	0.42
1:E:555:PRO:HB3	1:E:707:PHE:CE1	2.48	0.42
1:E:627:VAL:HG22	1:E:662:LEU:HB2	2.02	0.42
1:E:791:PRO:HG2	1:E:798:VAL:HG21	2.01	0.42
1:E:1397:GLU:OE2	1:E:1439:THR:HG23	2.20	0.42
1:E:1446:LYS:HE2	1:E:1446:LYS:HA	2.01	0.42
1:E:1828:TYR:H	1:E:1850:PHE:HA	1.84	0.42
1:E:1866:LEU:HA	1:E:1869:GLN:HB3	2.02	0.42
1:E:2008:CYS:HA	1:E:2011:ARG:CD	2.50	0.42
1:F:629:GLU:OE2	1:F:687:VAL:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:669:THR:C	1:F:672:PHE:HE2	2.27	0.42
1:F:988:GLU:O	1:F:991:GLU:HG3	2.20	0.42
1:F:1276:LEU:HA	1:F:1276:LEU:HD12	1.81	0.42
1:F:1378:ALA:HA	1:F:1381:GLU:HG2	2.02	0.42
1:F:1700:TYR:CZ	1:F:1736:LYS:HE2	2.54	0.42
1:F:2002:GLU:HA	1:F:2005:ARG:HG2	2.00	0.42
1:G:393:PRO:HG3	1:G:466:ARG:NH2	2.34	0.42
1:G:765:ARG:HE	1:G:807:ALA:HA	1.84	0.42
1:G:956:ARG:O	1:G:1009:ASP:HB2	2.20	0.42
1:G:1043:GLU:OE1	1:G:1046:ARG:NE	2.50	0.42
1:H:284:TYR:CZ	1:H:291:LYS:HG2	2.54	0.42
1:H:554:TYR:HB2	1:H:710:GLU:HG2	2.02	0.42
1:H:1486:TYR:CE1	1:H:1547:PHE:HE2	2.37	0.42
1:H:1520:PHE:HD1	1:H:1525:LEU:HD21	1.84	0.42
1:H:1804:ASP:O	1:H:1821:GLN:NE2	2.51	0.42
1:H:1999:TYR:CE2	1:H:2003:LEU:HD11	2.54	0.42
1:A:541:TYR:C	1:A:773:VAL:HG11	2.45	0.42
1:A:570:LEU:HD23	1:A:639:HIS:CA	2.49	0.42
1:A:575:GLN:OE1	1:A:576:TYR:N	2.52	0.42
1:A:576:TYR:O	1:A:577:MET:HE2	2.19	0.42
1:A:979:VAL:HG23	1:A:993:LEU:HD23	2.00	0.42
1:A:1281:LEU:O	1:A:1284:LEU:HB3	2.19	0.42
1:A:1303:PHE:HE2	1:A:1374:MET:HG2	1.85	0.42
1:A:1722:LYS:HA	1:A:1722:LYS:HD2	1.76	0.42
1:A:1734:PHE:HE2	1:B:1724:ALA:HB2	1.85	0.42
1:C:68:GLU:O	1:C:73:ARG:HD2	2.20	0.42
1:C:305:MET:SD	1:C:308:LEU:HD12	2.60	0.42
1:C:310:ARG:HD3	1:C:310:ARG:HA	1.90	0.42
1:C:391:ARG:HD3	1:C:391:ARG:HA	1.87	0.42
1:C:1017:VAL:O	1:C:1020:HIS:HB3	2.19	0.42
1:C:1058:ASN:HB3	1:C:1107:HIS:HD1	1.83	0.42
1:C:1461:ASP:CG	1:C:1465:ARG:HE	2.27	0.42
1:C:1558:LEU:O	1:C:1562:LEU:HG	2.19	0.42
1:C:1749:GLY:HA2	1:C:1775:SER:HA	2.02	0.42
1:D:47:LEU:HD11	1:D:1115:THR:HA	2.02	0.42
1:D:347:GLN:NE2	1:D:349:GLY:O	2.50	0.42
1:D:1038:LEU:CA	1:D:1041:ARG:HB3	2.49	0.42
1:D:1260:VAL:O	1:D:1264:THR:HG23	2.20	0.42
1:D:1425:GLY:CA	1:D:1465:ARG:HH11	2.30	0.42
1:D:1647:PHE:O	1:D:1650:ILE:HB	2.20	0.42
1:D:1740:GLN:O	1:D:1745:GLU:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1780:ALA:HB1	1:D:1784:HIS:HE1	1.83	0.42
1:B:212:PRO:HB3	1:B:1446:LYS:HE3	2.02	0.42
1:B:243:ALA:O	1:B:1046:ARG:NH1	2.52	0.42
1:B:630:ASN:OD1	1:B:630:ASN:N	2.51	0.42
1:B:658:TRP:CG	1:B:685:TYR:HE2	2.37	0.42
1:B:1015:SER:O	1:B:1018:ARG:HD3	2.20	0.42
1:B:1408:ALA:O	1:B:1412:VAL:HG23	2.20	0.42
1:B:1459:CYS:O	1:B:1462:LEU:HB3	2.20	0.42
1:B:1563:THR:O	1:B:1567:LYS:HG2	2.19	0.42
1:B:1989:LYS:HA	1:B:1992:ILE:HG12	2.02	0.42
1:E:1009:ASP:O	1:E:1013:VAL:HG23	2.19	0.42
1:E:1040:LEU:HA	1:E:1043:GLU:HG2	2.00	0.42
1:E:1053:HIS:HB3	1:E:1056:THR:HB	2.00	0.42
1:E:1908:ASP:HA	1:E:1911:LYS:HB2	2.00	0.42
1:F:86:LEU:HD23	1:F:122:ILE:HG13	2.00	0.42
1:F:154:PHE:O	1:F:158:ALA:HB3	2.20	0.42
1:F:217:ARG:HH22	1:F:218:ARG:NH2	2.18	0.42
1:F:513:PRO:HD3	1:F:531:GLU:CD	2.44	0.42
1:F:758:ARG:NH1	1:H:1026:THR:HG1	2.17	0.42
1:F:813:SER:O	1:F:817:ARG:HD3	2.19	0.42
1:F:972:VAL:HB	1:F:1020:HIS:NE2	2.35	0.42
1:F:1425:GLY:HA3	1:F:1465:ARG:HH11	1.84	0.42
1:F:1492:ASN:ND2	1:F:1502:VAL:HG23	2.35	0.42
1:F:1572:GLN:HA	1:F:1578:LEU:HD22	2.01	0.42
1:F:1846:GLY:HA2	1:F:1881:ALA:HB1	2.02	0.42
1:F:1873:LYS:HB2	1:F:1897:THR:OG1	2.19	0.42
1:G:263:VAL:HG23	1:G:325:ALA:HB3	2.02	0.42
1:G:270:PHE:CE1	1:G:494:ALA:HA	2.55	0.42
1:G:608:TYR:CD2	1:G:609:HIS:HB2	2.55	0.42
1:G:966:ASP:OD1	1:G:967:ASP:N	2.53	0.42
1:G:1798:VAL:HA	1:G:1817:LYS:HA	2.01	0.42
1:H:203:LEU:HB3	1:H:206:LEU:HB2	2.02	0.42
1:H:550:LEU:O	1:H:551:LEU:HD23	2.20	0.42
1:H:932:TRP:CG	1:H:933:PHE:H	2.38	0.42
1:H:1129:PHE:O	1:H:1133:LYS:HG2	2.20	0.42
1:H:1143:LEU:HD13	1:H:1259:TRP:CE3	2.55	0.42
1:H:1251:ARG:O	1:H:1295:PHE:HZ	2.02	0.42
1:H:1581:LEU:O	1:H:1584:ARG:HG2	2.20	0.42
1:H:1746:ARG:NH2	1:H:1748:PHE:HZ	2.17	0.42
1:H:1764:LEU:C	1:H:1767:GLN:HG2	2.45	0.42
1:H:1904:VAL:HA	1:H:1907:GLU:OE2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:580:GLU:CD	1:A:580:GLU:H	2.27	0.42
1:A:1403:VAL:O	1:A:1403:VAL:HG12	2.18	0.42
1:A:1578:LEU:HD12	1:A:1581:LEU:HD11	2.02	0.42
1:A:1720:TYR:HD2	1:B:1738:MET:CE	2.33	0.42
1:C:235:TYR:HE1	1:C:1295:PHE:HZ	1.66	0.42
1:C:346:LEU:HD23	1:C:387:LEU:HB3	2.01	0.42
1:C:555:PRO:HD2	1:C:619:PHE:CE2	2.55	0.42
1:C:1437:LEU:HA	1:C:1440:GLN:HE21	1.85	0.42
1:D:55:ASP:O	1:D:59:VAL:HG23	2.20	0.42
1:D:134:TYR:OH	1:D:247:CYS:O	2.19	0.42
1:D:338:LEU:HB3	1:D:399:VAL:HB	2.01	0.42
1:D:1462:LEU:HD21	1:D:1488:LEU:HD13	2.01	0.42
1:D:1740:GLN:HB3	1:D:1746:ARG:CD	2.49	0.42
1:D:2003:LEU:HD23	1:D:2003:LEU:HA	1.82	0.42
1:B:234:LEU:HD12	1:B:1380:VAL:O	2.20	0.42
1:B:260:ARG:HA	1:B:327:PHE:O	2.20	0.42
1:B:294:GLU:OE2	1:B:533:LEU:HB2	2.20	0.42
1:B:307:GLY:HA2	1:B:310:ARG:HG2	2.01	0.42
1:B:320:THR:OG1	1:B:595:CYS:N	2.37	0.42
1:B:916:TRP:CH2	1:B:931:ALA:HB1	2.54	0.42
1:B:1254:LEU:HD11	1:B:1287:LEU:HD11	2.01	0.42
1:B:1702:ALA:HA	1:B:1705:GLU:OE1	2.19	0.42
1:B:1722:LYS:HZ2	1:B:1726:VAL:HG13	1.85	0.42
1:B:1747:VAL:HA	1:B:1840:TYR:CE2	2.55	0.42
1:E:510:CYS:HB3	1:E:518:ILE:HG21	2.02	0.42
1:E:791:PRO:HA	1:E:903:LEU:HD11	2.02	0.42
1:E:1653:ASN:HB3	1:E:1880:HIS:CD2	2.55	0.42
1:F:1051:HIS:CE1	1:F:1053:HIS:H	2.38	0.42
1:F:1167:PRO:O	1:F:1171:ILE:HD12	2.20	0.42
1:F:1693:TYR:HA	1:F:1696:MET:HG3	2.01	0.42
1:G:223:ARG:HH11	1:G:1393:LEU:HD23	1.84	0.42
1:G:524:PRO:HG2	1:G:525:ARG:HD3	2.01	0.42
1:G:574:VAL:HA	1:G:635:PHE:CD1	2.55	0.42
1:G:1771:TYR:CZ	1:G:1888:ARG:HD3	2.54	0.42
1:H:928:LEU:HD21	1:H:989:LEU:HD21	2.01	0.42
1:H:976:GLY:HA2	1:H:979:VAL:HG12	2.01	0.42
1:H:1617:ALA:HB1	1:H:1694:PHE:HD2	1.85	0.42
1:H:1985:LEU:HD21	1:H:2003:LEU:HB3	2.01	0.42
1:A:259:GLN:HG2	1:A:329:VAL:O	2.20	0.42
1:A:719:PRO:HD3	1:A:728:PHE:CE2	2.55	0.42
1:A:772:LEU:HD23	1:A:772:LEU:HA	1.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:964:PHE:O	1:A:968:ILE:HG12	2.20	0.42
1:A:1052:GLU:C	1:A:1054:TYR:H	2.27	0.42
1:A:1058:ASN:ND2	1:A:1109:LEU:HB2	2.34	0.42
1:A:1553:ASP:OD1	1:A:1554:LEU:N	2.53	0.42
1:A:1754:VAL:HG22	1:A:1822:ILE:HG23	2.02	0.42
1:A:1798:VAL:HA	1:A:1817:LYS:HD2	2.01	0.42
1:C:283:LEU:HD13	1:C:283:LEU:HA	1.90	0.42
1:C:670:GLY:N	1:C:711:LEU:HB3	2.35	0.42
1:C:782:LYS:HD3	1:C:782:LYS:HA	1.82	0.42
1:C:963:ARG:NH2	1:C:966:ASP:OD2	2.51	0.42
1:C:1383:ASN:O	1:C:1386:THR:OG1	2.35	0.42
1:C:1617:ALA:HB2	1:C:1693:TYR:HB2	2.02	0.42
1:C:1721:LYS:HD3	1:C:1721:LYS:N	2.35	0.42
1:C:1763:ASP:O	1:C:1767:GLN:NE2	2.52	0.42
1:C:1936:GLY:O	1:C:1940:PRO:HB3	2.20	0.42
1:D:83:LEU:C	1:D:126:ARG:NH1	2.78	0.42
1:D:835:TYR:O	1:D:840:PHE:N	2.51	0.42
1:D:1422:TYR:HD1	1:D:1465:ARG:HH22	1.67	0.42
1:D:1706:VAL:O	1:D:1709:ASN:HB3	2.19	0.42
1:D:1827:PRO:HA	1:D:1850:PHE:CD1	2.54	0.42
1:D:1876:LEU:HD13	1:D:1894:ARG:HA	2.02	0.42
1:B:131:SER:O	1:B:135:SER:CB	2.63	0.42
1:B:140:ASP:OD1	1:B:141:THR:HG23	2.20	0.42
1:B:620:LYS:C	1:B:621:LEU:HD12	2.45	0.42
1:B:669:THR:HB	1:B:711:LEU:HG	2.02	0.42
1:B:982:ARG:NH2	1:B:985:LYS:HB2	2.34	0.42
1:B:1051:HIS:CE1	1:B:1053:HIS:HB2	2.54	0.42
1:B:1567:LYS:HA	1:B:1570:GLU:OE2	2.19	0.42
1:B:1574:ASP:O	1:B:1578:LEU:HB2	2.20	0.42
1:B:1623:ALA:O	1:B:1627:VAL:HG23	2.19	0.42
1:E:932:TRP:CD2	1:E:933:PHE:N	2.88	0.42
1:E:1403:VAL:HA	1:E:1406:SER:HB3	2.02	0.42
1:E:1597:LEU:HD23	1:E:1597:LEU:O	2.20	0.42
1:E:1694:PHE:HB2	1:E:1703:VAL:CG2	2.50	0.42
1:E:1749:GLY:HA2	1:E:1774:PRO:CA	2.50	0.42
1:E:1782:ILE:HD12	1:E:1785:ARG:HB3	2.01	0.42
1:E:1825:VAL:HG12	1:E:1852:PHE:HB2	2.00	0.42
1:E:1967:HIS:C	1:E:1971:ARG:HH21	2.28	0.42
1:F:125:ARG:HH22	1:F:1003:ASP:HA	1.84	0.42
1:F:607:VAL:HG21	1:F:614:GLU:O	2.20	0.42
1:G:231:LEU:HB2	1:G:1262:LYS:HZ3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:721:ASP:HB3	1:G:724:LEU:HB2	2.02	0.42
1:G:1004:LEU:HA	1:G:1007:LEU:HG	2.01	0.42
1:G:1700:TYR:O	1:G:1703:VAL:HB	2.20	0.42
1:G:1735:THR:HA	1:G:1738:MET:HG2	2.02	0.42
1:G:1768:GLU:HG3	1:G:1890:ARG:HE	1.85	0.42
1:H:490:ARG:HA	1:H:491:PRO:HD3	1.90	0.42
1:H:579:GLY:O	1:H:632:HIS:HE1	2.02	0.42
1:H:1450:LEU:HD12	1:H:1451:LEU:N	2.35	0.42
1:H:1510:LEU:O	1:H:1514:VAL:HG22	2.20	0.42
1:H:1579:ILE:O	1:H:1583:TYR:HB2	2.20	0.42
1:H:1593:PRO:HB3	1:H:1626:LEU:HD21	2.01	0.42
1:H:1666:SER:H	1:H:1672:PHE:HE2	1.68	0.42
1:H:1754:VAL:HG13	1:H:1822:ILE:HG13	2.02	0.42
1:A:912:LEU:O	1:A:915:GLN:NE2	2.53	0.41
1:A:1152:TYR:CD1	1:A:1161:VAL:HG21	2.54	0.41
1:A:1383:ASN:O	1:A:1387:GLU:HG2	2.19	0.41
1:A:1447:PHE:CD2	1:A:1450:LEU:HD23	2.55	0.41
1:A:1450:LEU:HD12	1:A:1451:LEU:N	2.34	0.41
1:A:1512:SER:O	1:A:1516:THR:OG1	2.25	0.41
1:A:1513:LEU:HD11	1:A:1520:PHE:CE2	2.54	0.41
1:A:1830:ASP:OD1	1:A:1831:THR:N	2.46	0.41
1:C:93:ARG:HB2	1:C:518:ILE:HG23	2.02	0.41
1:C:267:SER:O	1:C:496:LEU:HA	2.19	0.41
1:C:935:PHE:HD1	1:C:1000:PHE:CD1	2.37	0.41
1:C:1024:VAL:HG21	1:C:1041:ARG:HH11	1.83	0.41
1:C:1029:GLN:H	1:C:1029:GLN:CD	2.20	0.41
1:C:1178:ARG:CG	1:C:1244:ALA:HA	2.50	0.41
1:C:1586:ALA:HB1	1:C:1596:ARG:NE	2.34	0.41
1:D:134:TYR:CE1	1:D:248:SER:HA	2.55	0.41
1:D:139:THR:O	1:D:142:GLN:HG2	2.20	0.41
1:D:286:VAL:HB	1:D:335:ASP:HB3	2.01	0.41
1:D:519:LYS:HA	1:D:520:PRO:HA	1.87	0.41
1:D:633:LEU:HD12	1:D:661:LEU:HD21	2.02	0.41
1:D:663:GLN:HB3	1:D:666:ARG:HB3	2.02	0.41
1:D:753:VAL:HG13	1:D:754:GLU:N	2.35	0.41
1:D:807:ALA:O	1:D:811:VAL:HG23	2.20	0.41
1:D:1259:TRP:CE2	1:D:1263:ASN:ND2	2.88	0.41
1:D:1382:GLY:O	1:D:1386:THR:HG23	2.19	0.41
1:D:1692:GLY:O	1:D:1696:MET:HG3	2.20	0.41
1:B:148:GLY:C	1:B:149:LEU:HD22	2.45	0.41
1:B:244:VAL:HG11	1:B:1050:SER:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:661:LEU:O	1:B:667:LEU:HA	2.20	0.41
1:B:1112:LEU:O	1:B:1113:LEU:C	2.61	0.41
1:B:1281:LEU:O	1:B:1284:LEU:HB3	2.19	0.41
1:B:1471:GLY:HA3	1:B:1520:PHE:CD1	2.55	0.41
1:B:1496:GLY:C	1:B:1498:ASN:H	2.26	0.41
1:B:1712:PRO:CA	1:B:1715:GLU:HB3	2.45	0.41
1:B:2003:LEU:HA	1:B:2006:ASN:ND2	2.35	0.41
1:E:1000:PHE:CZ	1:E:1004:LEU:HD11	2.55	0.41
1:E:1751:TYR:CG	1:E:1850:PHE:HE1	2.38	0.41
1:F:340:ILE:H	1:F:397:THR:HG22	1.83	0.41
1:F:465:GLU:HG2	1:F:610:ASN:ND2	2.35	0.41
1:F:559:ASN:CB	1:F:706:VAL:HG11	2.46	0.41
1:F:728:PHE:CZ	1:F:779:VAL:HG12	2.54	0.41
1:F:916:TRP:HB2	1:F:971:LEU:HD21	2.02	0.41
1:F:964:PHE:CE1	1:F:968:ILE:HD11	2.55	0.41
1:G:154:PHE:O	1:G:158:ALA:HB3	2.20	0.41
1:G:269:LYS:HZ3	1:G:497:LYS:HE3	1.85	0.41
1:G:347:GLN:HG3	1:G:383:PHE:CG	2.55	0.41
1:G:761:LEU:O	1:G:764:LEU:HG	2.20	0.41
1:G:938:MET:C	1:G:942:MET:HE3	2.45	0.41
1:G:1468:ARG:NH2	1:G:1513:LEU:HD22	2.34	0.41
1:G:1579:ILE:HA	1:G:1582:MET:HG3	2.01	0.41
1:G:1653:ASN:ND2	1:G:1880:HIS:HA	2.34	0.41
1:G:1945:GLY:N	1:G:1948:GLU:OE2	2.52	0.41
1:H:259:GLN:HG2	1:H:329:VAL:O	2.20	0.41
1:H:266:LEU:HD13	1:H:497:LYS:HZ2	1.85	0.41
1:H:551:LEU:HD11	1:H:623:LEU:HD13	2.00	0.41
1:H:574:VAL:HB	1:H:602:ALA:HB3	2.02	0.41
1:H:1121:LEU:HA	1:H:1132:HIS:NE2	2.35	0.41
1:H:1463:CYS:SG	1:H:1506:VAL:HG23	2.59	0.41
1:H:1839:THR:O	1:H:1843:ARG:HG3	2.20	0.41
1:A:955:PRO:O	1:A:958:LEU:HD23	2.20	0.41
1:A:1143:LEU:HA	1:A:1143:LEU:HD23	1.64	0.41
1:A:1433:LEU:O	1:A:1437:LEU:HD23	2.20	0.41
1:A:1578:LEU:HD12	1:A:1581:LEU:HD21	2.01	0.41
1:C:543:PRO:HA	1:C:774:ALA:C	2.44	0.41
1:C:739:PHE:HD2	1:C:750:GLU:CD	2.28	0.41
1:C:917:VAL:O	1:C:924:ARG:NH2	2.50	0.41
1:C:1144:CYS:O	1:C:1147:ASP:HB2	2.20	0.41
1:C:1908:ASP:HA	1:C:1911:LYS:HB2	2.03	0.41
1:D:298:PHE:N	1:D:593:SER:HB3	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:604:THR:HG22	1:D:619:PHE:CZ	2.54	0.41
1:D:627:VAL:HG11	1:D:667:LEU:HD11	2.02	0.41
1:D:1033:ASN:OD1	1:D:1035:ALA:HB3	2.20	0.41
1:D:1280:GLN:CD	1:D:1280:GLN:N	2.77	0.41
1:D:1451:LEU:HD13	1:D:1488:LEU:HD11	2.02	0.41
1:D:1496:GLY:C	1:D:1498:ASN:H	2.28	0.41
1:D:1751:TYR:O	1:D:1752:PHE:HD1	2.03	0.41
1:B:490:ARG:HA	1:B:491:PRO:HD3	1.94	0.41
1:B:576:TYR:OH	1:B:631:HIS:HD2	2.03	0.41
1:B:912:LEU:CD2	1:B:938:MET:HB3	2.50	0.41
1:B:1029:GLN:H	1:B:1029:GLN:CD	2.25	0.41
1:B:1036:ALA:O	1:B:1040:LEU:HD23	2.19	0.41
1:B:1942:VAL:HG12	1:B:1944:GLN:H	1.85	0.41
1:E:94:THR:HG22	1:E:518:ILE:HD13	2.01	0.41
1:E:219:ASN:C	1:E:223:ARG:HE	2.29	0.41
1:E:391:ARG:HD3	1:E:391:ARG:HA	1.78	0.41
1:E:1476:THR:HB	1:E:1480:HIS:HE1	1.84	0.41
1:E:1872:ARG:CD	1:E:1896:GLU:HB3	2.48	0.41
1:G:972:VAL:O	1:G:975:VAL:HG12	2.20	0.41
1:G:1670:GLU:HG3	1:G:1671:GLY:N	2.35	0.41
1:H:82:ASP:O	1:H:126:ARG:HG2	2.20	0.41
1:H:86:LEU:HB2	1:H:122:ILE:HB	2.01	0.41
1:H:549:ASN:O	1:H:550:LEU:HD23	2.18	0.41
1:H:569:ASN:HB2	1:H:639:HIS:NE2	2.34	0.41
1:H:570:LEU:HD11	1:H:613:PRO:HG3	2.02	0.41
1:H:574:VAL:HG22	1:H:635:PHE:CE1	2.55	0.41
1:H:1437:LEU:HD22	1:H:1480:HIS:HB3	2.01	0.41
1:H:1607:HIS:HA	1:H:1610:LEU:HB2	2.02	0.41
1:H:1824:TYR:CG	1:H:1825:VAL:N	2.87	0.41
1:A:216:ASP:OD1	1:A:217:ARG:N	2.53	0.41
1:A:636:THR:HA	1:A:655:GLY:O	2.20	0.41
1:A:803:GLY:HA2	1:A:806:GLU:OE1	2.19	0.41
1:A:1261:LEU:HA	1:A:1264:THR:HG23	2.01	0.41
1:A:1543:ARG:NH2	1:A:1548:ALA:HB2	2.34	0.41
1:A:1567:LYS:HA	1:A:1570:GLU:OE2	2.19	0.41
1:A:1587:ARG:NH2	1:A:1656:GLU:HG3	2.34	0.41
1:A:1880:HIS:N	1:A:1889:ILE:HD11	2.35	0.41
1:C:56:PHE:CE1	1:C:1059:LEU:HD13	2.55	0.41
1:C:217:ARG:HH22	1:C:218:ARG:HB2	1.84	0.41
1:C:478:ASP:OD2	1:C:483:SER:OG	2.33	0.41
1:C:1476:THR:HB	1:C:1480:HIS:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1552:GLN:O	1:C:1555:MET:HG2	2.20	0.41
1:C:1653:ASN:HB3	1:C:1656:GLU:CD	2.45	0.41
1:C:1856:PHE:HZ	1:C:1898:VAL:HG13	1.85	0.41
1:C:1956:GLU:OE1	1:C:1956:GLU:N	2.53	0.41
1:D:120:TRP:CE3	1:D:838:TYR:HB3	2.55	0.41
1:D:225:GLN:N	1:D:225:GLN:CD	2.79	0.41
1:D:1090:ASP:OD2	1:D:1092:LYS:HB3	2.20	0.41
1:D:1522:GLU:O	1:D:1526:ARG:HG2	2.19	0.41
1:D:1593:PRO:HG2	1:D:1673:CYS:SG	2.60	0.41
1:D:1607:HIS:HB3	1:D:1615:GLU:OE2	2.21	0.41
1:D:1778:LYS:HG2	1:D:1779:LEU:H	1.85	0.41
1:D:1786:LEU:HD12	1:D:1789:PHE:HB3	2.02	0.41
1:D:1865:GLU:OE1	1:D:1867:PRO:HD2	2.19	0.41
1:B:120:TRP:HZ3	1:B:839:ALA:HB2	1.84	0.41
1:B:577:MET:HB2	1:B:632:HIS:CE1	2.55	0.41
1:B:1021:TYR:HA	1:B:1024:VAL:CG1	2.49	0.41
1:B:1129:PHE:O	1:B:1133:LYS:HG3	2.20	0.41
1:B:1288:LEU:HD13	1:B:1392:VAL:HG13	2.02	0.41
1:B:1413:LEU:HD23	1:B:1416:VAL:HG21	2.02	0.41
1:B:1431:LEU:C	1:B:1435:HIS:HD1	2.29	0.41
1:B:1800:GLU:HB2	1:B:1817:LYS:CG	2.51	0.41
1:E:774:ALA:C	1:E:775:PHE:HD2	2.28	0.41
1:E:1136:ILE:HA	1:E:1139:VAL:HG12	2.02	0.41
1:E:1590:GLN:CA	1:E:1596:ARG:HH11	2.33	0.41
1:E:1611:GLY:O	1:E:1613:HIS:NE2	2.53	0.41
1:F:639:HIS:HB3	1:F:652:THR:OG1	2.20	0.41
1:F:1000:PHE:O	1:F:1004:LEU:HD23	2.20	0.41
1:F:1022:LYS:O	1:F:1026:THR:OG1	2.17	0.41
1:F:1258:LEU:HA	1:F:1261:LEU:HD12	2.00	0.41
1:F:1870:HIS:CE1	1:F:1901:PRO:HD3	2.56	0.41
1:G:1103:PHE:CE1	1:G:1107:HIS:HD2	2.38	0.41
1:H:239:ASP:HB3	1:H:242:GLU:OE2	2.21	0.41
1:H:963:ARG:H	1:H:963:ARG:HD3	1.85	0.41
1:H:1595:LEU:O	1:H:1598:THR:OG1	2.35	0.41
1:A:51:VAL:HB	1:A:1104:ARG:HD2	2.02	0.41
1:A:805:PHE:CE1	1:A:908:LEU:HD11	2.56	0.41
1:A:979:VAL:O	1:A:983:VAL:HG13	2.19	0.41
1:A:1391:VAL:HA	1:A:1394:ASP:OD2	2.20	0.41
1:A:1701:GLU:OE1	1:A:1701:GLU:N	2.46	0.41
1:A:1706:VAL:O	1:A:1710:LEU:HD23	2.19	0.41
1:A:1935:GLN:HB2	1:A:2003:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:932:TRP:HA	1:C:935:PHE:HD2	1.85	0.41
1:C:1104:ARG:NH2	1:C:1108:PHE:HA	2.34	0.41
1:C:1113:LEU:HD21	1:C:1139:VAL:HG23	2.02	0.41
1:C:1276:LEU:HB3	1:C:1281:LEU:HD21	2.02	0.41
1:C:1751:TYR:O	1:C:1752:PHE:HD1	2.04	0.41
1:D:82:ASP:N	1:D:126:ARG:HH21	2.18	0.41
1:D:294:GLU:HB2	1:D:532:ILE:CG2	2.50	0.41
1:D:1413:LEU:HA	1:D:1416:VAL:HB	2.02	0.41
1:D:1619:CYS:N	1:D:1885:ILE:HG22	2.35	0.41
1:D:1856:PHE:HA	1:D:1862:ALA:O	2.20	0.41
1:B:95:THR:OG1	1:B:517:HIS:HB2	2.21	0.41
1:B:829:CYS:SG	1:B:832:LEU:HD13	2.60	0.41
1:B:982:ARG:NH1	1:B:982:ARG:O	2.42	0.41
1:B:1121:LEU:HD23	1:B:1132:HIS:HD2	1.85	0.41
1:B:1248:GLU:HG2	1:B:1249:SER:N	2.35	0.41
1:B:1691:ALA:O	1:B:1694:PHE:HB2	2.20	0.41
1:B:1749:GLY:O	1:B:1772:LYS:NZ	2.50	0.41
1:E:346:LEU:HB3	1:E:387:LEU:HB3	2.01	0.41
1:E:1504:MET:HE1	1:E:1671:GLY:HA3	2.02	0.41
1:E:1709:ASN:O	1:E:1713:ILE:HG13	2.19	0.41
1:E:1753:ARG:HD2	1:E:1753:ARG:O	2.20	0.41
1:F:281:LEU:HB2	1:F:296:PHE:CD2	2.53	0.41
1:F:785:ARG:HA	1:F:788:ILE:HG22	2.02	0.41
1:F:792:ILE:HG13	1:F:796:GLN:O	2.20	0.41
1:F:798:VAL:HG12	1:F:800:LEU:HD13	2.02	0.41
1:F:1508:MET:HG3	1:F:1598:THR:HG21	2.02	0.41
1:F:1907:GLU:HA	1:F:1910:GLN:HG3	2.03	0.41
1:G:900:SER:HA	1:G:903:LEU:HG	2.02	0.41
1:G:1396:LEU:O	1:G:1400:VAL:HG23	2.20	0.41
1:G:1568:MET:HB2	1:G:1578:LEU:HD11	2.02	0.41
1:G:1620:MET:SD	1:G:1689:GLN:NE2	2.92	0.41
1:G:1620:MET:HB3	1:G:1689:GLN:HE22	1.85	0.41
1:H:207:LEU:HB3	1:H:1535:TYR:CE1	2.56	0.41
1:H:535:PHE:CD2	1:H:536:PRO:HD2	2.55	0.41
1:H:732:HIS:O	1:H:735:GLU:HG3	2.21	0.41
1:H:1248:GLU:HG2	1:H:1251:ARG:CZ	2.51	0.41
1:A:81:ASP:OD1	1:A:81:ASP:N	2.49	0.41
1:A:908:LEU:O	1:A:909:HIS:C	2.63	0.41
1:A:927:ILE:C	1:A:931:ALA:HB2	2.43	0.41
1:A:972:VAL:O	1:A:975:VAL:HG12	2.21	0.41
1:A:1021:TYR:CA	1:A:1024:VAL:HG12	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:146:GLN:C	1:C:149:LEU:HD23	2.45	0.41
1:C:217:ARG:NH2	1:C:218:ARG:HB2	2.35	0.41
1:C:225:GLN:CD	1:C:225:GLN:N	2.78	0.41
1:C:259:GLN:CG	1:C:329:VAL:HB	2.51	0.41
1:C:769:PRO:HA	1:C:772:LEU:HD12	2.02	0.41
1:C:1470:CYS:SG	1:C:1485:LEU:HD11	2.60	0.41
1:C:1493:PHE:CE1	1:C:1545:SER:HB3	2.55	0.41
1:C:1503:LYS:HE3	1:C:1550:GLN:HG3	2.03	0.41
1:C:1835:LYS:HD3	1:E:1663:ASP:OD2	2.19	0.41
1:D:344:LYS:O	1:D:392:MET:N	2.50	0.41
1:D:1040:LEU:HA	1:D:1040:LEU:HD13	1.82	0.41
1:D:1530:LYS:HD3	1:D:1533:LEU:HD22	2.02	0.41
1:D:1768:GLU:CD	1:D:1891:VAL:HB	2.44	0.41
1:D:1931:GLN:HB2	1:D:1999:TYR:HE2	1.84	0.41
1:B:223:ARG:O	1:B:225:GLN:N	2.53	0.41
1:B:907:LEU:O	1:B:910:GLU:HG2	2.21	0.41
1:B:1130:LEU:HD23	1:B:1133:LYS:HZ3	1.85	0.41
1:B:1733:ALA:O	1:B:1737:ILE:HG12	2.20	0.41
1:E:281:LEU:CD2	1:E:340:ILE:HG12	2.51	0.41
1:E:281:LEU:HG	1:E:298:PHE:CE2	2.55	0.41
1:E:728:PHE:HA	1:E:731:VAL:HG22	2.02	0.41
1:E:1846:GLY:HA2	1:E:1881:ALA:HB1	2.03	0.41
1:E:1857:THR:OG1	1:E:1861:ARG:HG2	2.21	0.41
1:F:54:LEU:HD13	1:F:1105:GLN:HB3	2.03	0.41
1:F:1595:LEU:HB3	1:F:1599:TRP:CZ3	2.56	0.41
1:F:1624:ALA:HB1	1:F:1687:LEU:HG	2.01	0.41
1:F:1731:GLN:NE2	1:G:1727:HIS:HE1	2.11	0.41
1:F:1731:GLN:OE1	1:G:1727:HIS:ND1	2.51	0.41
1:G:658:TRP:CZ3	1:G:685:TYR:HB2	2.56	0.41
1:G:659:ILE:HG12	1:G:674:LEU:CD1	2.51	0.41
1:G:742:ARG:H	1:G:742:ARG:HD3	1.85	0.41
1:G:784:VAL:HG13	1:G:842:LEU:HD12	2.02	0.41
1:G:1013:VAL:O	1:G:1017:VAL:HG23	2.21	0.41
1:G:1717:HIS:O	1:G:1718:ARG:HD3	2.20	0.41
1:G:1977:PHE:HE2	1:G:2010:LEU:HD21	1.86	0.41
1:H:121:VAL:HG11	1:H:841:ARG:HD3	2.02	0.41
1:H:675:PRO:HG2	1:H:690:PRO:HB2	2.01	0.41
1:H:701:ASP:HB3	1:H:704:LYS:HE2	2.02	0.41
1:H:812:VAL:O	1:H:815:VAL:HG22	2.20	0.41
1:H:1098:GLU:HA	1:H:1167:PRO:HB3	2.01	0.41
1:H:1143:LEU:HD12	1:H:1256:CYS:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1449:GLU:HB3	1:H:1453:GLU:HG2	2.02	0.41
1:H:1909:MET:O	1:H:1977:PHE:HZ	2.03	0.41
1:H:1974:PHE:HB2	1:H:2018:LEU:HD21	2.03	0.41
1:A:104:LYS:NZ	1:A:110:ARG:HH22	2.18	0.41
1:A:272:ILE:HG13	1:A:274:ILE:HG13	2.03	0.41
1:A:394:PHE:C	1:A:462:GLN:H	2.25	0.41
1:A:567:VAL:HG13	1:A:570:LEU:HD21	2.03	0.41
1:A:1018:ARG:HG2	1:A:1022:LYS:HZ2	1.83	0.41
1:A:1404:MET:N	1:A:1409:ARG:HH21	2.19	0.41
1:A:1590:GLN:HA	1:A:1596:ARG:HH11	1.86	0.41
1:C:345:VAL:HG11	1:C:384:CYS:HA	2.02	0.41
1:C:574:VAL:HG22	1:C:635:PHE:HE1	1.86	0.41
1:C:785:ARG:HB3	1:C:785:ARG:CZ	2.51	0.41
1:C:1101:GLY:N	1:C:1102:PRO:HD2	2.34	0.41
1:C:1160:ARG:NE	1:C:1163:GLU:OE2	2.48	0.41
1:C:1265:GLU:OE1	1:C:1267:ALA:N	2.53	0.41
1:D:84:GLU:HG3	1:D:85:LEU:N	2.36	0.41
1:D:94:THR:HA	1:D:518:ILE:HD13	2.03	0.41
1:D:468:SER:HB3	1:D:470:GLU:OE2	2.20	0.41
1:D:1097:PHE:CD2	1:D:1272:TRP:CD1	3.09	0.41
1:D:1100:SER:HB3	1:D:1102:PRO:HD2	2.02	0.41
1:D:1630:TYR:O	1:D:1634:LEU:HG	2.21	0.41
1:D:1733:ALA:HA	1:D:1736:LYS:HG2	2.03	0.41
1:D:1942:VAL:HG12	1:D:1944:GLN:H	1.86	0.41
1:D:2002:GLU:O	1:D:2005:ARG:HG3	2.20	0.41
1:B:120:TRP:CZ3	1:B:839:ALA:HB2	2.55	0.41
1:B:144:GLU:OE1	1:B:145:ARG:HD3	2.19	0.41
1:B:553:VAL:HB	1:B:619:PHE:CD2	2.43	0.41
1:B:812:VAL:O	1:B:815:VAL:HG22	2.21	0.41
1:B:915:GLN:NE2	1:B:916:TRP:CD1	2.88	0.41
1:B:919:SER:O	1:B:924:ARG:NH1	2.52	0.41
1:B:1029:GLN:N	1:B:1029:GLN:CD	2.79	0.41
1:B:1846:GLY:C	1:B:1881:ALA:HB1	2.46	0.41
1:E:125:ARG:HB2	1:E:128:GLN:HB2	2.02	0.41
1:E:139:THR:O	1:E:143:ARG:HG2	2.21	0.41
1:E:793:ILE:O	1:E:794:SER:OG	2.39	0.41
1:E:1437:LEU:HD11	1:E:1481:ALA:HA	2.02	0.41
1:E:1468:ARG:HA	1:E:1520:PHE:HZ	1.81	0.41
1:E:1756:PHE:HD2	1:E:1764:LEU:O	2.04	0.41
1:F:53:PRO:HD3	1:F:1018:ARG:HG2	2.02	0.41
1:F:155:GLU:OE1	1:F:1472:SER:OG	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:318:ILE:HD12	1:F:321:LEU:HD23	2.01	0.41
1:F:568:ARG:H	1:F:639:HIS:CE1	2.38	0.41
1:F:1562:LEU:O	1:F:1566:VAL:HG23	2.20	0.41
1:G:283:LEU:HD13	1:G:337:PHE:C	2.45	0.41
1:G:698:ARG:HD3	1:G:699:TRP:N	2.36	0.41
1:G:916:TRP:HE1	1:G:927:ILE:HG12	1.84	0.41
1:G:978:GLU:HA	1:G:981:THR:HB	2.03	0.41
1:G:1270:GLN:OE1	1:G:1398:ILE:HG23	2.21	0.41
1:G:1393:LEU:HD21	1:G:1439:THR:OG1	2.21	0.41
1:G:1779:LEU:HD22	1:G:1824:TYR:H	1.86	0.41
1:G:1850:PHE:HB2	1:G:1876:LEU:HB2	2.03	0.41
1:H:299:ASP:OD2	1:H:301:ASN:ND2	2.53	0.41
1:H:327:PHE:CG	1:H:532:ILE:HG13	2.55	0.41
1:H:936:GLN:HA	1:H:939:VAL:CG2	2.49	0.41
1:A:255:GLU:HB3	1:A:545:THR:OG1	2.20	0.41
1:A:259:GLN:HB2	1:A:446:PHE:HB2	2.02	0.41
1:A:340:ILE:HD13	1:A:496:LEU:HD23	2.03	0.41
1:A:805:PHE:O	1:A:806:GLU:C	2.64	0.41
1:A:836:VAL:HG11	1:A:937:LEU:HD23	2.02	0.41
1:A:1011:GLY:HA2	1:A:1014:PHE:HD2	1.85	0.41
1:A:1158:LYS:HE2	1:A:1263:ASN:HA	2.01	0.41
1:A:1712:PRO:CA	1:A:1715:GLU:HB3	2.45	0.41
1:A:1963:LEU:HD12	1:A:1967:HIS:HE1	1.86	0.41
1:C:278:PHE:HD1	1:C:391:ARG:HE	1.68	0.41
1:C:573:ARG:HB2	1:C:603:PHE:CZ	2.56	0.41
1:C:828:HIS:CE1	1:C:932:TRP:CD2	3.08	0.41
1:C:966:ASP:OD1	1:C:967:ASP:N	2.54	0.41
1:C:1006:SER:C	1:C:1007:LEU:HD22	2.45	0.41
1:C:1057:LEU:HB2	1:C:1109:LEU:HD21	2.02	0.41
1:C:1099:LEU:H	1:C:1167:PRO:HB3	1.86	0.41
1:C:1756:PHE:CD1	1:C:1761:PHE:CE1	3.09	0.41
1:D:1109:LEU:HD12	1:D:1109:LEU:N	2.35	0.41
1:D:1404:MET:HE3	1:D:1404:MET:HB3	1.94	0.41
1:D:1409:ARG:HD2	1:D:1413:LEU:HD13	2.02	0.41
1:D:1773:GLU:HG2	1:D:1777:THR:HG21	2.03	0.41
1:B:124:HIS:HA	1:B:249:ARG:HH22	1.86	0.41
1:B:159:SER:OG	1:B:160:GLY:N	2.54	0.41
1:B:1034:PRO:O	1:B:1037:LEU:HB2	2.20	0.41
1:B:1617:ALA:HB1	1:B:1694:PHE:HD1	1.84	0.41
1:B:1711:ILE:O	1:B:1715:GLU:HB3	2.21	0.41
1:E:47:LEU:HD12	1:E:48:THR:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:95:THR:N	1:E:517:HIS:O	2.28	0.41
1:E:568:ARG:HH21	1:E:610:ASN:HA	1.85	0.41
1:E:782:LYS:HG3	1:E:785:ARG:NH1	2.35	0.41
1:E:1582:MET:HG3	1:E:1603:MET:CE	2.51	0.41
1:E:1727:HIS:O	1:E:1730:LEU:HB3	2.21	0.41
1:E:1827:PRO:HA	1:E:1850:PHE:CD1	2.56	0.41
1:E:1849:THR:HA	1:E:1876:LEU:O	2.20	0.41
1:E:1899:LEU:HD13	1:E:1907:GLU:OE2	2.20	0.41
1:F:146:GLN:HB3	1:F:1380:VAL:HG11	2.02	0.41
1:F:343:GLU:OE1	1:F:616:TYR:OH	2.38	0.41
1:F:658:TRP:CG	1:F:685:TYR:HD2	2.39	0.41
1:F:1847:LEU:HB3	1:F:1850:PHE:CZ	2.54	0.41
1:G:212:PRO:HA	1:G:215:VAL:HG22	2.03	0.41
1:G:577:MET:HE1	1:G:582:PRO:O	2.21	0.41
1:G:674:LEU:HD22	1:G:690:PRO:HG2	2.02	0.41
1:G:753:VAL:O	1:G:757:LEU:HG	2.20	0.41
1:G:1105:GLN:HA	1:G:1108:PHE:CE1	2.55	0.41
1:G:1711:ILE:HB	1:G:1712:PRO:HD3	2.03	0.41
1:G:1848:ARG:HG2	1:G:1880:HIS:C	2.45	0.41
1:H:782:LYS:HG3	1:H:785:ARG:NH1	2.32	0.41
1:H:976:GLY:O	1:H:980:ILE:HD12	2.20	0.41
1:H:1371:LYS:HA	1:H:1374:MET:HG3	2.01	0.41
1:H:1587:ARG:HE	1:H:1596:ARG:HH22	1.69	0.41
1:H:1900:THR:O	1:H:1904:VAL:HG23	2.21	0.41
1:A:268:LEU:HD21	1:A:270:PHE:CE2	2.56	0.41
1:A:829:CYS:O	1:A:833:ALA:HB3	2.20	0.41
1:A:972:VAL:CA	1:A:975:VAL:HG12	2.46	0.41
1:A:1099:LEU:HA	1:A:1103:PHE:CD2	2.49	0.41
1:A:1129:PHE:HA	1:A:1132:HIS:HD1	1.86	0.41
1:C:666:ARG:HG2	1:C:667:LEU:O	2.20	0.41
1:C:807:ALA:O	1:C:811:VAL:HG23	2.21	0.41
1:C:1023:GLN:HA	1:C:1026:THR:HB	2.01	0.41
1:C:1132:HIS:O	1:C:1133:LYS:C	2.63	0.41
1:D:727:PHE:CE2	1:D:782:LYS:HB2	2.55	0.41
1:D:730:LEU:HB3	1:D:757:LEU:HD13	2.02	0.41
1:D:1290:LEU:HD12	1:D:1293:ALA:HB3	2.02	0.41
1:D:1727:HIS:O	1:D:1730:LEU:HB3	2.21	0.41
1:D:1851:LEU:HD12	1:D:1852:PHE:H	1.86	0.41
1:B:90:ARG:O	1:B:92:CYS:N	2.54	0.41
1:B:701:ASP:HB2	1:B:704:LYS:HB3	2.02	0.41
1:B:778:HIS:O	1:B:782:LYS:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:957:LYS:HD2	1:B:958:LEU:HB3	2.01	0.41
1:B:1248:GLU:OE1	1:B:1248:GLU:N	2.45	0.41
1:B:1264:THR:HB	1:B:1269:LEU:HD21	2.02	0.41
1:B:1428:GLN:HB2	1:B:1433:LEU:HG	2.03	0.41
1:E:397:THR:HB	1:E:459:PHE:CG	2.54	0.41
1:E:1052:GLU:HG3	1:E:1053:HIS:CG	2.56	0.41
1:E:1630:TYR:HA	1:E:1633:LEU:HD12	2.01	0.41
1:E:1754:VAL:HG21	1:E:1771:TYR:CD2	2.56	0.41
1:E:2021:ARG:NE	1:E:2021:ARG:HA	2.36	0.41
1:F:836:VAL:HA	1:F:840:PHE:CB	2.51	0.41
1:F:1466:LEU:O	1:F:1481:ALA:HB1	2.21	0.41
1:F:1550:GLN:HA	1:F:1553:ASP:OD2	2.20	0.41
1:F:1558:LEU:HD23	1:F:1561:ILE:HG13	2.02	0.41
1:F:1667:PRO:HA	1:F:1672:PHE:HD2	1.85	0.41
1:F:1786:LEU:HD22	1:F:1822:ILE:HD11	2.03	0.41
1:G:785:ARG:NH2	1:G:843:PRO:HD2	2.28	0.41
1:G:1018:ARG:HH11	1:G:1019:ALA:N	2.19	0.41
1:G:1637:HIS:H	1:G:1640:LEU:HD21	1.85	0.41
1:H:90:ARG:HG2	1:H:120:TRP:NE1	2.36	0.41
1:H:152:GLN:NE2	1:H:1429:SER:HB2	2.36	0.41
1:H:216:ASP:OD1	1:H:217:ARG:N	2.54	0.41
1:H:319:SER:HA	1:H:528:PRO:HG3	2.03	0.41
1:H:341:LYS:CE	1:H:462:GLN:HE22	2.31	0.41
1:H:634:LEU:HD11	1:H:656:PHE:HB3	2.02	0.41
1:H:1554:LEU:O	1:H:1558:LEU:HG	2.20	0.41
1:H:1589:TYR:HE2	1:H:1599:TRP:HE1	1.67	0.41
1:H:1720:TYR:HA	1:H:1723:LEU:HD23	2.02	0.41
1:H:1936:GLY:O	1:H:1940:PRO:HB3	2.21	0.41
1:H:1962:LYS:HA	1:H:1965:ARG:NH2	2.35	0.41
1:A:57:GLU:OE1	1:A:60:LEU:HD22	2.21	0.41
1:A:200:ASP:CG	1:A:1527:ARG:HD3	2.45	0.41
1:A:290:LYS:NZ	1:A:292:ILE:HA	2.36	0.41
1:A:586:LEU:HA	1:A:600:ARG:HH11	1.86	0.41
1:A:632:HIS:HB3	1:A:660:PRO:HA	2.02	0.41
1:A:699:TRP:CD1	1:A:703:HIS:ND1	2.89	0.41
1:A:770:GLU:H	1:A:770:GLU:CD	2.28	0.41
1:A:802:ARG:H	1:A:802:ARG:HG3	1.63	0.41
1:A:803:GLY:HA2	1:A:806:GLU:CD	2.46	0.41
1:A:907:LEU:HD13	1:A:907:LEU:HA	1.97	0.41
1:A:916:TRP:HH2	1:A:931:ALA:HB1	1.86	0.41
1:A:951:ARG:NH2	1:A:958:LEU:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:956:ARG:HD3	1:A:1008:VAL:CA	2.51	0.41
1:A:1129:PHE:O	1:A:1132:HIS:HB2	2.21	0.41
1:A:1142:LEU:HD12	1:A:1146:HIS:HE1	1.86	0.41
1:A:1176:LEU:HD21	1:A:1287:LEU:HD13	2.03	0.41
1:A:1280:GLN:H	1:A:1280:GLN:CD	2.29	0.41
1:A:1586:ALA:O	1:A:1589:TYR:N	2.54	0.41
1:A:1727:HIS:CE1	1:B:1731:GLN:NE2	2.89	0.41
1:A:1848:ARG:O	1:A:1877:SER:HA	2.21	0.41
1:A:1963:LEU:HD12	1:A:1967:HIS:CE1	2.55	0.41
1:C:87:LEU:HD12	1:C:119:ASP:HB2	2.03	0.41
1:C:134:TYR:CE1	1:C:248:SER:HA	2.55	0.41
1:C:230:ALA:HB1	1:C:233:THR:HG21	2.03	0.41
1:C:393:PRO:HB2	1:C:462:GLN:HB3	2.02	0.41
1:C:408:ALA:C	1:C:449:PHE:HB2	2.46	0.41
1:C:1045:THR:OG1	1:C:1046:ARG:N	2.53	0.41
1:C:1495:ILE:O	1:C:1497:HIS:ND1	2.54	0.41
1:C:1567:LYS:O	1:C:1571:HIS:ND1	2.40	0.41
1:C:1614:ALA:HA	1:C:1694:PHE:HE1	1.85	0.41
1:C:1906:ILE:HD13	1:C:1966:HIS:HB3	2.02	0.41
1:C:1958:PRO:HB3	1:C:1963:LEU:CB	2.51	0.41
1:D:90:ARG:O	1:D:92:CYS:N	2.53	0.41
1:D:103:GLU:O	1:D:110:ARG:NH2	2.33	0.41
1:D:122:ILE:CD1	1:D:838:TYR:HA	2.50	0.41
1:D:476:LEU:HD23	1:D:479:MET:HE3	2.03	0.41
1:D:527:ARG:HD3	1:D:528:PRO:HD2	2.02	0.41
1:D:530:LYS:HZ3	1:D:532:ILE:HA	1.85	0.41
1:D:980:ILE:CG2	1:D:1027:ARG:HD2	2.51	0.41
1:D:1099:LEU:HB2	1:D:1167:PRO:CB	2.51	0.41
1:D:1142:LEU:O	1:D:1146:HIS:ND1	2.41	0.41
1:D:1287:LEU:HD12	1:D:1287:LEU:HA	1.80	0.41
1:D:1539:ASP:OD1	1:D:1542:LEU:HD13	2.21	0.41
1:D:1663:ASP:H	1:H:1835:LYS:NZ	2.18	0.41
1:D:1769:PHE:HE1	1:D:1890:ARG:NH2	2.19	0.41
1:D:1908:ASP:HA	1:D:1911:LYS:HG3	2.03	0.41
1:D:1934:LEU:O	1:D:1938:VAL:HG22	2.20	0.41
1:D:1965:ARG:O	1:D:1969:LYS:HG3	2.21	0.41
1:D:1987:LYS:O	1:D:1991:LEU:HG	2.21	0.41
1:D:1992:ILE:HG22	1:D:1993:GLY:O	2.21	0.41
1:B:141:THR:O	1:B:144:GLU:HB3	2.21	0.41
1:B:908:LEU:O	1:B:909:HIS:C	2.64	0.41
1:B:932:TRP:CE2	1:B:933:PHE:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:964:PHE:O	1:B:967:ASP:HB2	2.21	0.41
1:B:1020:HIS:O	1:B:1021:TYR:C	2.63	0.41
1:B:1047:ILE:O	1:B:1050:SER:HB3	2.21	0.41
1:B:1142:LEU:HD12	1:B:1146:HIS:HE1	1.85	0.41
1:B:1150:PRO:HG2	1:B:1151:ARG:NH2	2.35	0.41
1:B:1165:TYR:HB2	1:B:1260:VAL:HG11	2.02	0.41
1:B:1288:LEU:O	1:B:1291:CYS:HB2	2.20	0.41
1:B:1438:ALA:HA	1:B:1441:ARG:CG	2.51	0.41
1:B:1553:ASP:OD1	1:B:1554:LEU:N	2.54	0.41
1:B:1600:LEU:HD13	1:B:1623:ALA:CB	2.51	0.41
1:B:1615:GLU:OE1	1:B:1615:GLU:N	2.53	0.41
1:B:1629:GLU:OE1	1:B:1658:SER:HA	2.21	0.41
1:B:1853:CYS:HB3	1:B:1871:LYS:HE2	2.02	0.41
1:B:1927:ALA:N	1:B:1991:LEU:HD13	2.36	0.41
1:B:1934:LEU:HD23	1:B:2003:LEU:HD13	2.03	0.41
1:B:2005:ARG:HD2	1:B:2009:ARG:HH22	1.85	0.41
1:E:92:CYS:C	1:E:519:LYS:HZ1	2.26	0.41
1:E:266:LEU:HB3	1:E:497:LYS:NZ	2.36	0.41
1:E:283:LEU:HD12	1:E:327:PHE:CG	2.56	0.41
1:E:561:SER:HB3	1:E:612:SER:HB3	2.02	0.41
1:E:589:ILE:O	1:E:599:THR:OG1	2.30	0.41
1:E:1017:VAL:HA	1:E:1020:HIS:HD1	1.86	0.41
1:E:1026:THR:O	1:E:1029:GLN:NE2	2.54	0.41
1:E:1038:LEU:O	1:E:1041:ARG:HB2	2.21	0.41
1:E:1064:LEU:HD23	1:E:1106:GLN:OE1	2.21	0.41
1:E:1376:HIS:O	1:E:1380:VAL:HG13	2.21	0.41
1:E:1475:SER:HA	1:E:1478:ARG:CZ	2.51	0.41
1:E:1492:ASN:HB3	1:E:1499:PHE:HB3	2.03	0.41
1:E:1536:ALA:O	1:E:1543:ARG:NH1	2.54	0.41
1:E:1627:VAL:HG22	1:E:1678:PHE:CE1	2.56	0.41
1:E:1721:LYS:HA	1:H:1738:MET:SD	2.61	0.41
1:E:1746:ARG:HD2	1:E:1746:ARG:HA	1.88	0.41
1:F:138:THR:OG1	1:F:140:ASP:OD1	2.39	0.41
1:F:138:THR:N	1:F:141:THR:OG1	2.49	0.41
1:F:142:GLN:OE1	1:F:236:PRO:HA	2.21	0.41
1:F:380:ALA:HA	1:F:383:PHE:HD2	1.85	0.41
1:F:577:MET:SD	1:F:582:PRO:HA	2.61	0.41
1:F:583:SER:C	1:F:585:ALA:H	2.27	0.41
1:F:613:PRO:HB2	1:F:615:PHE:CE2	2.56	0.41
1:F:755:GLN:HA	1:F:758:ARG:HG2	2.03	0.41
1:F:1005:LEU:HG	1:F:1013:VAL:HG11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1510:LEU:HD22	1:F:1558:LEU:HD13	2.03	0.41
1:F:1593:PRO:HD3	1:F:1664:ILE:HD11	2.02	0.41
1:F:1596:ARG:HH21	1:F:1626:LEU:HD13	1.86	0.41
1:F:1618:GLN:HE22	1:F:1651:SER:HB2	1.86	0.41
1:F:1700:TYR:HB3	1:F:1737:ILE:HD11	2.03	0.41
1:F:1707:TYR:O	1:F:1711:ILE:HG13	2.21	0.41
1:F:1773:GLU:CB	1:F:1782:ILE:HD12	2.51	0.41
1:F:2014:LEU:O	1:F:2018:LEU:N	2.54	0.41
1:G:259:GLN:HG2	1:G:329:VAL:HB	2.03	0.41
1:G:261:ILE:HA	1:G:502:PRO:HA	2.02	0.41
1:G:558:LEU:O	1:G:612:SER:HB2	2.20	0.41
1:G:816:HIS:CE1	1:G:930:HIS:HE2	2.38	0.41
1:G:846:GLU:N	1:G:846:GLU:OE1	2.54	0.41
1:G:1499:PHE:O	1:G:1503:LYS:HG2	2.21	0.41
1:G:1748:PHE:CG	1:G:1749:GLY:N	2.88	0.41
1:G:1886:LYS:NZ	1:G:1888:ARG:HG2	2.35	0.41
1:H:89:PRO:HA	1:H:119:ASP:OD1	2.21	0.41
1:H:555:PRO:HB3	1:H:707:PHE:CE1	2.51	0.41
1:H:1093:VAL:HA	1:H:1096:MET:HB3	2.03	0.41
1:H:1723:LEU:O	1:H:1724:ALA:C	2.64	0.41
1:H:1845:TYR:CD1	1:H:1883:PRO:HD2	2.56	0.41
1:H:1870:HIS:CE1	1:H:1901:PRO:HD3	2.56	0.41
1:H:1876:LEU:HA	1:H:1893:HIS:O	2.20	0.41
1:H:1965:ARG:HG3	1:H:1969:LYS:NZ	2.36	0.41
1:A:203:LEU:HD23	1:A:203:LEU:HA	1.98	0.41
1:A:248:SER:H	1:A:826:ARG:NH2	2.19	0.41
1:A:320:THR:HB	1:A:593:SER:HA	2.02	0.41
1:A:685:TYR:CG	1:A:686:SER:N	2.89	0.41
1:A:1064:LEU:HG	1:A:1106:GLN:OE1	2.20	0.41
1:A:1292:LEU:HD13	1:A:1292:LEU:HA	1.78	0.41
1:A:1566:VAL:O	1:A:1570:GLU:OE1	2.39	0.41
1:A:1711:ILE:CG1	1:A:1712:PRO:HD3	2.51	0.41
1:A:2014:LEU:HA	1:A:2017:LEU:HD12	2.03	0.41
1:C:231:LEU:HD22	1:C:1259:TRP:HD1	1.86	0.41
1:C:812:VAL:HG13	1:C:832:LEU:HD11	2.03	0.41
1:C:1005:LEU:HD22	1:C:1013:VAL:CG1	2.49	0.41
1:C:1254:LEU:O	1:C:1258:LEU:HD23	2.20	0.41
1:C:1449:GLU:OE1	1:C:1449:GLU:N	2.31	0.41
1:C:1493:PHE:CZ	1:C:1545:SER:HB3	2.56	0.41
1:C:1582:MET:CE	1:C:1599:TRP:HB3	2.47	0.41
1:C:1590:GLN:HA	1:C:1596:ARG:HH11	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1707:TYR:CE1	1:C:1726:VAL:HG13	2.56	0.41
1:C:1768:GLU:CG	1:C:1890:ARG:HE	2.34	0.41
1:C:1830:ASP:O	1:C:1834:LEU:CB	2.69	0.41
1:C:1840:TYR:O	1:C:1844:ASN:ND2	2.55	0.41
1:D:217:ARG:NH2	1:D:218:ARG:HB2	2.36	0.41
1:D:349:GLY:H	1:D:608:TYR:HE2	1.69	0.41
1:D:497:LYS:HA	1:D:497:LYS:HD2	1.80	0.41
1:D:541:TYR:C	1:D:773:VAL:HG11	2.46	0.41
1:D:639:HIS:HB3	1:D:652:THR:HG1	1.85	0.41
1:D:778:HIS:O	1:D:782:LYS:HG2	2.21	0.41
1:D:1463:CYS:O	1:D:1467:LEU:HG	2.21	0.41
1:D:1522:GLU:OE2	1:D:1526:ARG:NH2	2.53	0.41
1:D:1779:LEU:HD11	1:D:1823:THR:HA	2.03	0.41
1:D:1905:ALA:HB1	1:D:1949:VAL:HG11	2.02	0.41
1:B:57:GLU:O	1:B:61:LEU:HG	2.20	0.41
1:B:486:LEU:O	1:B:489:LEU:HB2	2.20	0.41
1:B:510:CYS:O	1:B:511:LEU:HD23	2.20	0.41
1:B:1018:ARG:HH11	1:B:1019:ALA:N	2.18	0.41
1:B:1114:LEU:HA	1:B:1117:LEU:HD12	2.02	0.41
1:B:1280:GLN:CD	1:B:1280:GLN:H	2.28	0.41
1:B:1886:LYS:NZ	1:B:1888:ARG:HG2	2.36	0.41
1:B:1935:GLN:HB2	1:B:2003:LEU:HD21	2.03	0.41
1:E:345:VAL:HG22	1:E:391:ARG:NH1	2.36	0.41
1:E:568:ARG:HB2	1:E:610:ASN:O	2.20	0.41
1:E:916:TRP:HZ2	1:E:934:PHE:HB3	1.85	0.41
1:E:1028:LEU:HD21	1:E:1038:LEU:HG	2.02	0.41
1:E:1103:PHE:CE1	1:E:1107:HIS:HD2	2.38	0.41
1:E:1866:LEU:HA	1:E:1869:GLN:HB2	2.03	0.41
1:F:577:MET:HE1	1:F:582:PRO:O	2.20	0.41
1:F:757:LEU:O	1:F:760:SER:OG	2.38	0.41
1:F:1300:LYS:HA	1:F:1300:LYS:HD3	1.73	0.41
1:F:1562:LEU:HA	1:F:1565:THR:HG22	2.02	0.41
1:F:2001:ARG:O	1:F:2005:ARG:HG2	2.20	0.41
1:G:93:ARG:H	1:G:93:ARG:HG2	1.68	0.41
1:G:143:ARG:HH21	1:G:147:LYS:NZ	2.19	0.41
1:G:223:ARG:HE	1:G:223:ARG:HB2	1.72	0.41
1:G:1934:LEU:HD21	1:G:1985:LEU:HG	2.03	0.41
1:H:124:HIS:NE2	1:H:126:ARG:HA	2.36	0.41
1:H:268:LEU:HD12	1:H:495:GLN:O	2.21	0.41
1:H:663:GLN:N	1:H:666:ARG:O	2.53	0.41
1:H:1052:GLU:HG3	1:H:1053:HIS:CG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1289:TYR:CD1	1:H:1419:VAL:HG22	2.56	0.41
1:H:1529:LEU:HD11	1:H:1559:HIS:CE1	2.56	0.41
1:H:1666:SER:N	1:H:1672:PHE:HE2	2.18	0.41
1:A:281:LEU:HD22	1:A:338:LEU:HD11	2.03	0.40
1:A:608:TYR:CD2	1:A:609:HIS:HB2	2.56	0.40
1:A:1023:GLN:O	1:A:1026:THR:HB	2.21	0.40
1:A:1047:ILE:O	1:A:1050:SER:HB3	2.20	0.40
1:A:1298:LYS:HB2	1:A:1298:LYS:HE2	1.93	0.40
1:A:1648:GLN:OE1	1:A:1652:SER:HA	2.21	0.40
1:C:124:HIS:CD2	1:C:249:ARG:HH12	2.39	0.40
1:C:331:TYR:CE2	1:C:538:ARG:HB2	2.55	0.40
1:C:909:HIS:CB	1:C:938:MET:HB2	2.51	0.40
1:C:935:PHE:O	1:C:938:MET:SD	2.79	0.40
1:C:1021:TYR:O	1:C:1024:VAL:HG22	2.21	0.40
1:C:1473:ARG:HG3	1:C:1524:HIS:NE2	2.35	0.40
1:C:1521:SER:O	1:C:1525:LEU:HD23	2.21	0.40
1:C:1734:PHE:O	1:C:1738:MET:HE2	2.21	0.40
1:C:1761:PHE:HE1	1:C:1790:TYR:HE1	1.70	0.40
1:C:1802:ILE:HD11	1:C:1819:TYR:CD1	2.53	0.40
1:D:127:TYR:O	1:D:128:GLN:C	2.63	0.40
1:D:567:VAL:HA	1:D:639:HIS:CD2	2.56	0.40
1:D:578:THR:HG22	1:D:584:GLN:HB3	2.03	0.40
1:D:604:THR:HB	1:D:615:PHE:CD1	2.56	0.40
1:D:769:PRO:HA	1:D:772:LEU:HD12	2.03	0.40
1:D:803:GLY:HA2	1:D:806:GLU:CD	2.46	0.40
1:D:898:GLU:O	1:D:902:ILE:HG12	2.20	0.40
1:D:905:SER:O	1:D:906:LYS:HE2	2.21	0.40
1:D:1107:HIS:CD2	1:D:1164:LEU:HD22	2.56	0.40
1:D:1557:ASN:O	1:D:1561:ILE:HG13	2.20	0.40
1:D:1800:GLU:HB3	1:D:1819:TYR:HA	2.03	0.40
1:D:1972:LEU:HD23	1:D:1975:LYS:HD2	2.03	0.40
1:B:258:GLY:N	1:B:328:SER:HB3	2.36	0.40
1:B:812:VAL:CA	1:B:815:VAL:HG22	2.49	0.40
1:B:834:ALA:O	1:B:838:TYR:HD2	2.05	0.40
1:B:1113:LEU:HD12	1:B:1113:LEU:N	2.36	0.40
1:B:1297:TYR:CE1	1:B:1381:GLU:HG3	2.55	0.40
1:B:1468:ARG:NH2	1:B:1513:LEU:HB2	2.36	0.40
1:B:1539:ASP:OD2	1:B:1542:LEU:HD12	2.21	0.40
1:B:1975:LYS:HD3	1:B:1975:LYS:HA	1.83	0.40
1:B:1995:ASP:OD2	1:B:1996:GLN:HG2	2.21	0.40
1:E:749:SER:N	1:E:752:ASN:OD1	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1461:ASP:O	1:E:1465:ARG:HG2	2.22	0.40
1:E:1587:ARG:NH2	1:E:1596:ARG:HH12	2.19	0.40
1:E:1596:ARG:O	1:E:1600:LEU:HD13	2.20	0.40
1:E:1607:HIS:HA	1:E:1610:LEU:HD12	2.03	0.40
1:E:1767:GLN:HA	1:E:1890:ARG:CZ	2.50	0.40
1:F:109:VAL:HG12	1:F:717:VAL:HG21	2.03	0.40
1:F:558:LEU:HD13	1:F:707:PHE:CA	2.50	0.40
1:F:664:HIS:CE1	1:F:744:LYS:HD3	2.57	0.40
1:F:964:PHE:O	1:F:967:ASP:HB2	2.21	0.40
1:F:1004:LEU:O	1:F:1008:VAL:HG12	2.21	0.40
1:F:1052:GLU:HG3	1:F:1053:HIS:CG	2.56	0.40
1:F:1501:ARG:CZ	1:F:1671:GLY:HA3	2.51	0.40
1:F:1768:GLU:HG2	1:F:1890:ARG:NH2	2.28	0.40
1:G:1245:LEU:HG	1:G:1246:SER:N	2.36	0.40
1:G:1564:ASP:O	1:G:1568:MET:HG2	2.21	0.40
1:G:1948:GLU:O	1:G:1952:VAL:HG23	2.21	0.40
1:H:1475:SER:HA	1:H:1478:ARG:CZ	2.51	0.40
1:H:1592:SER:OG	1:H:1595:LEU:HD23	2.21	0.40
1:A:229:PRO:HA	1:A:1262:LYS:NZ	2.37	0.40
1:A:474:LYS:HZ2	1:A:478:ASP:HB2	1.86	0.40
1:A:1288:LEU:O	1:A:1291:CYS:HB2	2.21	0.40
1:A:1802:ILE:HD11	1:A:1819:TYR:HB3	2.03	0.40
1:C:299:ASP:OD1	1:C:301:ASN:HB2	2.21	0.40
1:C:966:ASP:O	1:C:969:THR:HB	2.21	0.40
1:C:1058:ASN:CG	1:C:1109:LEU:HB2	2.46	0.40
1:C:1279:PRO:HG2	1:C:1280:GLN:NE2	2.37	0.40
1:C:1547:PHE:O	1:C:1551:VAL:HG23	2.21	0.40
1:C:1821:GLN:OE1	1:C:1822:ILE:N	2.55	0.40
1:C:1852:PHE:CE2	1:C:1854:THR:HG22	2.57	0.40
1:C:1974:PHE:HB3	1:C:2018:LEU:HD11	2.04	0.40
1:D:63:ARG:NE	1:D:1061:CYS:O	2.54	0.40
1:D:670:GLY:N	1:D:711:LEU:HB3	2.36	0.40
1:D:767:ALA:HB3	1:D:772:LEU:HD21	2.03	0.40
1:D:1045:THR:HG23	1:D:1045:THR:H	1.65	0.40
1:D:1462:LEU:HD23	1:D:1463:CYS:N	2.35	0.40
1:D:1631:LEU:HD11	1:D:1679:THR:C	2.47	0.40
1:D:1680:GLU:O	1:D:1684:VAL:HG22	2.21	0.40
1:B:578:THR:O	1:B:630:ASN:ND2	2.54	0.40
1:B:628:THR:HB	1:B:630:ASN:OD1	2.21	0.40
1:B:632:HIS:HD2	1:B:658:TRP:HB2	1.83	0.40
1:B:1176:LEU:HA	1:B:1179:LEU:HD12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1430:ALA:HA	1:B:1477:ILE:HD11	2.02	0.40
1:B:1779:LEU:HD22	1:B:1824:TYR:H	1.87	0.40
1:B:2001:ARG:O	1:B:2005:ARG:HG2	2.21	0.40
1:E:155:GLU:OE1	1:E:1473:ARG:HD3	2.21	0.40
1:E:600:ARG:N	1:E:600:ARG:HD2	2.37	0.40
1:E:1660:ILE:H	1:E:1660:ILE:HG12	1.71	0.40
1:E:1987:LYS:HD3	1:E:1990:ALA:HB3	2.03	0.40
1:F:281:LEU:HD23	1:F:340:ILE:HG12	2.03	0.40
1:F:288:GLU:O	1:F:289:LYS:HG3	2.22	0.40
1:F:628:THR:HG22	1:F:629:GLU:HG2	2.03	0.40
1:F:1594:ASP:O	1:F:1598:THR:HG23	2.21	0.40
1:F:1760:HIS:CE1	1:F:1798:VAL:HG11	2.56	0.40
1:F:1872:ARG:HE	1:F:1898:VAL:HG22	1.86	0.40
1:G:116:TYR:OH	1:G:716:SER:HB2	2.21	0.40
1:G:140:ASP:O	1:G:143:ARG:HG2	2.20	0.40
1:G:515:LEU:HD12	1:G:590:PHE:HD2	1.87	0.40
1:G:617:GLU:HG3	1:G:619:PHE:CE1	2.56	0.40
1:G:980:ILE:HD13	1:G:1023:GLN:NE2	2.32	0.40
1:G:1143:LEU:HD13	1:G:1259:TRP:CE3	2.56	0.40
1:G:1258:LEU:HA	1:G:1261:LEU:HD12	2.03	0.40
1:G:1859:ASP:CG	1:G:1861:ARG:HE	2.29	0.40
1:H:538:ARG:NE	1:H:538:ARG:HA	2.36	0.40
1:H:675:PRO:HD2	1:H:690:PRO:HB2	2.02	0.40
1:H:793:ILE:O	1:H:794:SER:OG	2.39	0.40
1:H:916:TRP:HH2	1:H:938:MET:HE1	1.87	0.40
1:H:1039:THR:O	1:H:1043:GLU:HG2	2.20	0.40
1:H:1097:PHE:O	1:H:1167:PRO:HA	2.22	0.40
1:H:1751:TYR:CG	1:H:1850:PHE:CE1	3.09	0.40
1:H:1934:LEU:O	1:H:1938:VAL:HG22	2.21	0.40
1:A:982:ARG:NH1	1:A:986:ASP:H	2.20	0.40
1:A:1040:LEU:HA	1:A:1040:LEU:HD13	1.80	0.40
1:A:1155:ALA:O	1:A:1158:LYS:HG2	2.21	0.40
1:A:1582:MET:HG3	1:A:1603:MET:CE	2.51	0.40
1:A:1873:LYS:HB2	1:A:1897:THR:HG1	1.86	0.40
1:A:1922:GLN:HB2	1:A:1925:PRO:HA	2.03	0.40
1:A:2009:ARG:O	1:A:2012:GLU:HG3	2.21	0.40
1:C:471:ASP:HA	1:C:474:LYS:HB3	2.02	0.40
1:C:738:ALA:HB3	1:C:741:PHE:CE2	2.57	0.40
1:C:984:HIS:CE1	1:C:985:LYS:HG2	2.56	0.40
1:C:1033:ASN:OD1	1:C:1035:ALA:HB3	2.21	0.40
1:C:1046:ARG:NH2	1:C:1047:ILE:HD11	2.32	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1613:HIS:CE1	1:C:1696:MET:HE1	2.56	0.40
1:C:1700:TYR:O	1:C:1703:VAL:HB	2.21	0.40
1:D:1094:THR:HA	1:D:1097:PHE:CD2	2.56	0.40
1:D:1297:TYR:OH	1:D:1378:ALA:HB1	2.22	0.40
1:D:1573:GLU:HG2	1:D:1793:ARG:HH22	1.86	0.40
1:D:1928:LYS:O	1:D:1931:GLN:HG3	2.20	0.40
1:B:250:PRO:HB2	1:B:834:ALA:HB2	2.02	0.40
1:B:284:TYR:CD2	1:B:291:LYS:HA	2.56	0.40
1:B:1144:CYS:O	1:B:1148:THR:HG23	2.21	0.40
1:B:1292:LEU:HA	1:B:1292:LEU:HD13	1.86	0.40
1:B:1431:LEU:HB3	1:B:1435:HIS:HE1	1.87	0.40
1:B:1489:MET:CG	1:B:1502:VAL:HG11	2.49	0.40
1:B:1530:LYS:O	1:B:1534:THR:HG23	2.21	0.40
1:B:1543:ARG:NH2	1:B:1548:ALA:HB2	2.31	0.40
1:B:1562:LEU:O	1:B:1566:VAL:HG23	2.21	0.40
1:B:1626:LEU:HD13	1:B:1657:GLU:HB3	2.03	0.40
1:B:1748:PHE:O	1:B:1775:SER:HB3	2.21	0.40
1:B:1870:HIS:ND1	1:B:1900:THR:HA	2.36	0.40
1:B:1882:PHE:HA	1:B:1883:PRO:C	2.46	0.40
1:B:1953:PHE:HB3	1:B:1967:HIS:CD2	2.57	0.40
1:E:231:LEU:O	1:E:234:LEU:HB2	2.21	0.40
1:E:907:LEU:O	1:E:910:GLU:HG2	2.21	0.40
1:E:980:ILE:O	1:E:983:VAL:HG22	2.21	0.40
1:E:1024:VAL:HG11	1:E:1041:ARG:NH1	2.36	0.40
1:E:1259:TRP:CD1	1:E:1263:ASN:HD21	2.39	0.40
1:E:1496:GLY:C	1:E:1498:ASN:H	2.29	0.40
1:F:90:ARG:NH1	1:F:115:MET:O	2.52	0.40
1:F:539:GLU:HG2	1:F:770:GLU:OE2	2.22	0.40
1:F:633:LEU:O	1:F:658:TRP:HA	2.21	0.40
1:F:787:VAL:HG21	1:F:808:MET:HE1	2.03	0.40
1:F:819:LEU:HD12	1:F:822:ALA:HB3	2.04	0.40
1:F:1425:GLY:O	1:F:1469:HIS:HE1	2.04	0.40
1:F:1630:TYR:CZ	1:F:1673:CYS:HB2	2.57	0.40
1:F:1706:VAL:O	1:F:1709:ASN:HB2	2.21	0.40
1:F:1727:HIS:CE1	1:G:1731:GLN:HE22	2.39	0.40
1:F:1761:PHE:HB3	1:F:1764:LEU:CB	2.43	0.40
1:F:1877:SER:OG	1:F:1893:HIS:HB2	2.21	0.40
1:G:318:ILE:HD12	1:G:321:LEU:HD23	2.03	0.40
1:G:930:HIS:CD2	1:G:932:TRP:HE1	2.39	0.40
1:G:1021:TYR:CE1	1:G:1112:LEU:HD21	2.56	0.40
1:G:1055:VAL:O	1:G:1060:PRO:HD3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1099:LEU:HD13	1:G:1103:PHE:CD2	2.57	0.40
1:G:1472:SER:OG	1:G:1473:ARG:N	2.54	0.40
1:H:397:THR:HB	1:H:459:PHE:CG	2.56	0.40
1:H:658:TRP:CE3	1:H:685:TYR:HD2	2.40	0.40
1:H:1171:ILE:HD12	1:H:1171:ILE:H	1.86	0.40
1:H:1513:LEU:HD11	1:H:1520:PHE:CE2	2.56	0.40
1:A:671:PRO:N	1:A:710:GLU:HG3	2.37	0.40
1:A:701:ASP:O	1:A:704:LYS:HB2	2.21	0.40
1:A:955:PRO:HG2	1:A:957:LYS:HG2	2.04	0.40
1:A:980:ILE:H	1:A:980:ILE:HD12	1.87	0.40
1:A:1110:ALA:O	1:A:1113:LEU:HB2	2.21	0.40
1:A:1701:GLU:HG3	1:A:1841:PHE:CG	2.57	0.40
1:A:1846:GLY:C	1:A:1881:ALA:HB1	2.45	0.40
1:A:1882:PHE:HA	1:A:1883:PRO:C	2.47	0.40
1:C:341:LYS:HD2	1:C:616:TYR:CZ	2.56	0.40
1:C:664:HIS:NE2	1:C:744:LYS:HA	2.35	0.40
1:C:778:HIS:O	1:C:781:ASP:HB2	2.21	0.40
1:C:907:LEU:HB2	1:C:910:GLU:CD	2.46	0.40
1:C:979:VAL:HG23	1:C:993:LEU:HD23	2.04	0.40
1:C:1012:PHE:HD1	1:C:1012:PHE:HA	1.74	0.40
1:C:1038:LEU:HA	1:C:1041:ARG:HB3	2.04	0.40
1:C:1174:ASP:O	1:C:1177:PRO:HD2	2.21	0.40
1:C:1789:PHE:HA	1:C:1792:GLU:OE2	2.22	0.40
1:D:83:LEU:CD2	1:D:125:ARG:HG2	2.51	0.40
1:D:1695:THR:HA	1:D:1700:TYR:CE1	2.55	0.40
1:D:1710:LEU:O	1:D:1711:ILE:C	2.65	0.40
1:D:1873:LYS:HG2	1:D:1897:THR:OG1	2.21	0.40
1:D:1875:LEU:C	1:D:1876:LEU:HD22	2.46	0.40
1:B:1011:GLY:HA2	1:B:1014:PHE:HD2	1.86	0.40
1:B:1297:TYR:CZ	1:B:1299:GLY:HA2	2.57	0.40
1:B:1419:VAL:HA	1:B:1422:TYR:CD2	2.55	0.40
1:B:1817:LYS:HB3	1:B:1819:TYR:HE2	1.87	0.40
1:B:2005:ARG:HB2	1:B:2009:ARG:NH2	2.36	0.40
1:E:1010:ARG:HG2	1:E:1057:LEU:HD22	2.03	0.40
1:E:1593:PRO:HD2	1:E:1672:PHE:CZ	2.57	0.40
1:E:1599:TRP:HA	1:E:1602:ASN:HB2	2.04	0.40
1:E:1639:HIS:CD2	1:E:1640:LEU:N	2.89	0.40
1:E:1751:TYR:CE1	1:E:1772:LYS:HD3	2.56	0.40
1:E:1917:ALA:HB2	1:E:1980:LYS:NZ	2.35	0.40
1:F:252:PRO:HA	1:F:253:PRO:HD3	1.97	0.40
1:F:783:LEU:HB3	1:F:808:MET:CE	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1018:ARG:HD2	1:F:1022:LYS:HZ1	1.87	0.40
1:F:1052:GLU:HG3	1:F:1053:HIS:N	2.36	0.40
1:F:1370:THR:O	1:F:1374:MET:HG2	2.21	0.40
1:F:1740:GLN:HB3	1:F:1745:GLU:HB2	2.03	0.40
1:F:1804:ASP:N	1:F:1804:ASP:OD1	2.52	0.40
1:G:548:ARG:NH1	1:G:715:SER:N	2.69	0.40
1:G:608:TYR:CG	1:G:609:HIS:N	2.89	0.40
1:G:1015:SER:HA	1:G:1018:ARG:CD	2.51	0.40
1:G:1555:MET:O	1:G:1559:HIS:HB2	2.22	0.40
1:H:547:TYR:HE1	1:H:717:VAL:HG23	1.86	0.40
1:H:728:PHE:HA	1:H:731:VAL:HG22	2.02	0.40
1:H:1008:VAL:O	1:H:1010:ARG:HD2	2.20	0.40
1:H:1168:LEU:HD21	1:H:1257:VAL:HA	2.03	0.40
1:H:1289:TYR:HD1	1:H:1419:VAL:HG22	1.86	0.40
1:H:1492:ASN:OD1	1:H:1498:ASN:O	2.39	0.40
1:H:1865:GLU:OE1	1:H:1867:PRO:HD2	2.22	0.40
1:A:120:TRP:CE3	1:A:838:TYR:HB3	2.56	0.40
1:A:490:ARG:O	1:A:490:ARG:HG2	2.21	0.40
1:A:632:HIS:HB2	1:A:659:ILE:O	2.20	0.40
1:A:722:PRO:HG2	1:A:723:TYR:CE1	2.56	0.40
1:A:1118:ALA:O	1:A:1122:GLU:HG2	2.21	0.40
1:A:1702:ALA:HA	1:A:1705:GLU:OE1	2.20	0.40
1:A:1769:PHE:HB3	1:A:1888:ARG:HG3	2.03	0.40
1:A:1884:TYR:CE1	1:A:1885:ILE:HG12	2.56	0.40
1:C:120:TRP:CD2	1:C:838:TYR:HB3	2.57	0.40
1:C:124:HIS:CD2	1:C:249:ARG:HH22	2.39	0.40
1:C:290:LYS:HD2	1:C:291:LYS:C	2.46	0.40
1:C:325:ALA:HB1	1:C:532:ILE:HD11	2.03	0.40
1:C:741:PHE:HB3	1:C:748:LEU:HD12	2.02	0.40
1:C:991:GLU:OE2	1:C:992:HIS:CE1	2.74	0.40
1:C:1166:LEU:HD23	1:C:1166:LEU:HA	1.89	0.40
1:C:1166:LEU:O	1:C:1169:LEU:HG	2.22	0.40
1:C:1378:ALA:HA	1:C:1381:GLU:OE1	2.22	0.40
1:C:1788:GLU:O	1:C:1789:PHE:C	2.64	0.40
1:C:1939:GLY:CA	1:C:2006:ASN:HD21	2.25	0.40
1:C:2002:GLU:HA	1:C:2005:ARG:HG2	2.03	0.40
1:D:290:LYS:NZ	1:D:535:PHE:HD2	2.18	0.40
1:D:290:LYS:HD2	1:D:291:LYS:C	2.46	0.40
1:D:530:LYS:NZ	1:D:532:ILE:HA	2.37	0.40
1:D:757:LEU:HD13	1:D:757:LEU:HA	1.94	0.40
1:D:1006:SER:C	1:D:1007:LEU:HD22	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1021:TYR:O	1:D:1024:VAL:HG22	2.22	0.40
1:D:1248:GLU:O	1:D:1251:ARG:HG2	2.22	0.40
1:D:1459:CYS:O	1:D:1462:LEU:HB3	2.21	0.40
1:D:1544:ASP:OD1	1:D:1545:SER:N	2.54	0.40
1:D:1547:PHE:O	1:D:1551:VAL:HG23	2.21	0.40
1:D:1908:ASP:O	1:D:1911:LYS:HB2	2.22	0.40
1:B:608:TYR:HB2	1:B:642:CYS:SG	2.62	0.40
1:B:979:VAL:HG21	1:B:994:ASN:HD21	1.86	0.40
1:B:1034:PRO:HA	1:B:1037:LEU:HB2	2.03	0.40
1:B:1253:LEU:HD22	1:B:1254:LEU:CD2	2.41	0.40
1:E:326:ILE:HB	1:E:531:GLU:HG2	2.04	0.40
1:E:658:TRP:CE3	1:E:685:TYR:HD2	2.39	0.40
1:E:811:VAL:O	1:E:815:VAL:HG13	2.20	0.40
1:E:1001:LEU:HD12	1:E:1044:PHE:CZ	2.56	0.40
1:E:1901:PRO:HA	1:E:1904:VAL:HB	2.03	0.40
1:E:1926:ASP:O	1:E:1930:LEU:HB3	2.22	0.40
1:F:212:PRO:HA	1:F:215:VAL:HG22	2.03	0.40
1:F:381:GLU:O	1:F:385:THR:HG23	2.21	0.40
1:F:464:ALA:HB1	1:F:610:ASN:HD21	1.87	0.40
1:F:583:SER:C	1:F:585:ALA:N	2.79	0.40
1:F:678:VAL:CG2	1:F:698:ARG:HD2	2.52	0.40
1:F:1426:SER:N	1:F:1428:GLN:HE22	2.20	0.40
1:F:1653:ASN:HD21	1:F:1880:HIS:HA	1.86	0.40
1:G:50:VAL:HG12	1:G:1104:ARG:NH1	2.36	0.40
1:G:93:ARG:NH2	1:G:255:GLU:OE1	2.55	0.40
1:G:331:TYR:CD2	1:G:538:ARG:HB2	2.57	0.40
1:G:912:LEU:HB3	1:G:938:MET:HE1	2.04	0.40
1:G:951:ARG:HB3	1:G:954:THR:OG1	2.22	0.40
1:G:1825:VAL:HG12	1:G:1850:PHE:HB3	2.04	0.40
1:G:1916:LEU:HD11	1:G:1934:LEU:HD13	2.04	0.40
1:H:219:ASN:C	1:H:223:ARG:HE	2.29	0.40
1:H:265:CYS:HB2	1:H:323:ARG:HB2	2.04	0.40
1:H:773:VAL:HG22	1:H:815:VAL:HG12	2.04	0.40
1:H:1300:LYS:CE	1:H:1378:ALA:HB2	2.51	0.40
1:H:1582:MET:SD	1:H:1603:MET:SD	3.19	0.40
1:H:1706:VAL:HA	1:H:1709:ASN:OD1	2.21	0.40
1:H:1809:ASP:O	1:H:1813:LEU:HG	2.21	0.40
1:H:1890:ARG:HA	1:H:1890:ARG:HD2	1.71	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	1667/2053 (81%)	1506 (90%)	161 (10%)	0	100	100
1	B	1667/2053 (81%)	1501 (90%)	166 (10%)	0	100	100
1	C	1673/2053 (82%)	1490 (89%)	183 (11%)	0	100	100
1	D	1673/2053 (82%)	1506 (90%)	167 (10%)	0	100	100
1	E	1673/2053 (82%)	1552 (93%)	121 (7%)	0	100	100
1	F	1667/2053 (81%)	1566 (94%)	101 (6%)	0	100	100
1	G	1667/2053 (81%)	1570 (94%)	97 (6%)	0	100	100
1	H	1673/2053 (82%)	1546 (92%)	127 (8%)	0	100	100
All	All	13360/16424 (81%)	12237 (92%)	1123 (8%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	1470/1773 (83%)	1470 (100%)	0	100	100
1	B	1470/1773 (83%)	1470 (100%)	0	100	100
1	C	1476/1773 (83%)	1476 (100%)	0	100	100
1	D	1476/1773 (83%)	1476 (100%)	0	100	100
1	E	1476/1773 (83%)	1476 (100%)	0	100	100
1	F	1470/1773 (83%)	1469 (100%)	1 (0%)	88	89

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	G	1470/1773 (83%)	1470 (100%)	0	100	100
1	H	1476/1773 (83%)	1476 (100%)	0	100	100
All	All	11784/14184 (83%)	11783 (100%)	1 (0%)	100	100

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	1910	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (156) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	146	GLN
1	A	226	HIS
1	A	301	ASN
1	A	315	HIS
1	A	544	HIS
1	A	556	HIS
1	A	610	ASN
1	A	639	HIS
1	A	816	HIS
1	A	915	GLN
1	A	929	GLN
1	A	950	GLN
1	A	1023	GLN
1	A	1051	HIS
1	A	1053	HIS
1	A	1180	HIS
1	A	1434	GLN
1	A	1552	GLN
1	A	1717	HIS
1	A	1739	HIS
1	A	1784	HIS
1	A	1880	HIS
1	A	2000	HIS
1	C	226	HIS
1	C	506	ASN
1	C	945	HIS
1	C	1051	HIS
1	C	1053	HIS

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Mol	Chain	Res	Type
1	C	1106	GLN
1	C	1263	ASN
1	C	1435	HIS
1	C	1440	GLN
1	C	1491	GLN
1	C	1505	GLN
1	C	1639	HIS
1	C	1717	HIS
1	C	1760	HIS
1	C	1844	ASN
1	C	1869	GLN
1	C	1870	HIS
1	C	2000	HIS
1	C	2006	ASN
1	D	226	HIS
1	D	506	ASN
1	D	664	HIS
1	D	1051	HIS
1	D	1058	ASN
1	D	1105	GLN
1	D	1435	HIS
1	D	1440	GLN
1	D	1491	GLN
1	D	1492	ASN
1	D	1637	HIS
1	D	1639	HIS
1	D	1649	ASN
1	D	1717	HIS
1	D	1869	GLN
1	D	1931	GLN
1	D	2000	HIS
1	B	146	GLN
1	B	226	HIS
1	B	301	ASN
1	B	508	HIS
1	B	544	HIS
1	B	610	ASN
1	B	823	GLN
1	B	915	GLN
1	B	950	GLN
1	B	1020	HIS
1	B	1051	HIS

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Mol	Chain	Res	Type
1	B	1107	HIS
1	B	1270	GLN
1	B	1434	GLN
1	B	1492	ASN
1	B	1552	GLN
1	B	1639	HIS
1	B	1880	HIS
1	B	1910	GLN
1	B	1951	GLN
1	B	1996	GLN
1	B	2000	HIS
1	E	108	GLN
1	E	219	ASN
1	E	259	GLN
1	E	301	ASN
1	E	400	HIS
1	E	462	GLN
1	E	508	HIS
1	E	559	ASN
1	E	663	GLN
1	E	718	HIS
1	E	755	GLN
1	E	915	GLN
1	E	994	ASN
1	E	1263	ASN
1	E	1440	GLN
1	E	1491	GLN
1	E	1492	ASN
1	E	1552	GLN
1	E	1559	HIS
1	E	1639	HIS
1	E	1689	GLN
1	E	1731	GLN
1	E	1739	HIS
1	E	1870	HIS
1	E	2000	HIS
1	F	584	GLN
1	F	609	HIS
1	F	664	HIS
1	F	915	GLN
1	F	950	GLN
1	F	1469	HIS

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Mol	Chain	Res	Type
1	F	1492	ASN
1	F	1601	GLN
1	F	1618	GLN
1	F	1689	GLN
1	F	1717	HIS
1	F	1951	GLN
1	G	225	GLN
1	G	301	ASN
1	G	816	HIS
1	G	945	HIS
1	G	1020	HIS
1	G	1107	HIS
1	G	1428	GLN
1	G	1440	GLN
1	G	1491	GLN
1	G	1601	GLN
1	G	1727	HIS
1	G	1731	GLN
1	G	1767	GLN
1	G	1821	GLN
1	G	2000	HIS
1	H	108	GLN
1	H	259	GLN
1	H	295	ASN
1	H	301	ASN
1	H	462	GLN
1	H	663	GLN
1	H	718	HIS
1	H	755	GLN
1	H	777	HIS
1	H	915	GLN
1	H	994	ASN
1	H	1440	GLN
1	H	1491	GLN
1	H	1559	HIS
1	H	1612	ASN
1	H	1639	HIS
1	H	1689	GLN
1	H	1731	GLN
1	H	1806	ASN
1	H	1863	HIS
1	H	1870	HIS

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Mol	Chain	Res	Type
1	H	1988	ASN
1	H	2000	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

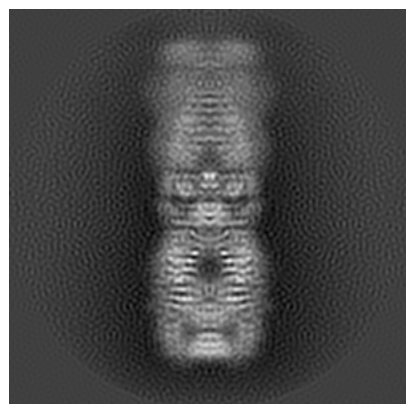
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-65180. These allow visual inspection of the internal detail of the map and identification of artifacts.

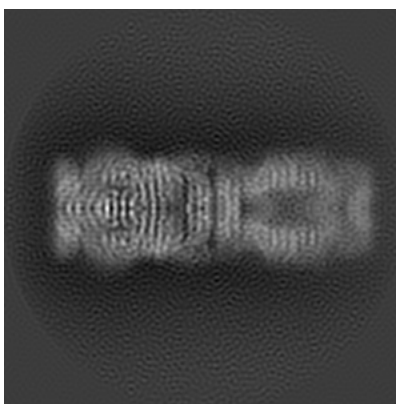
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

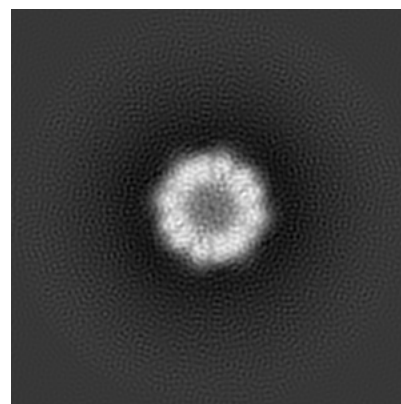
6.1.1 Primary map



X

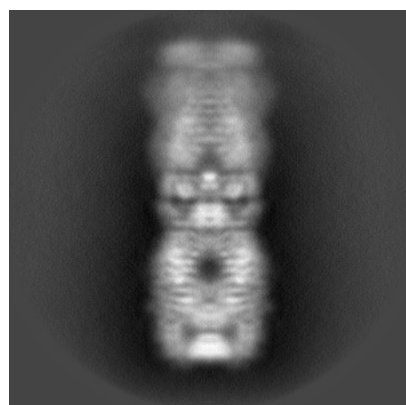


Y

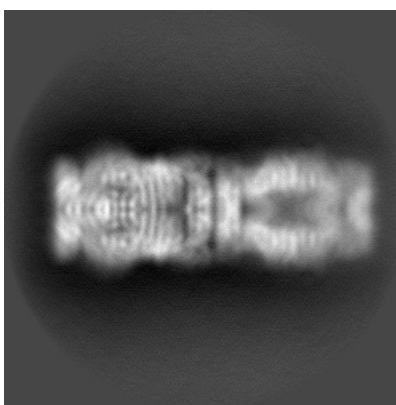


Z

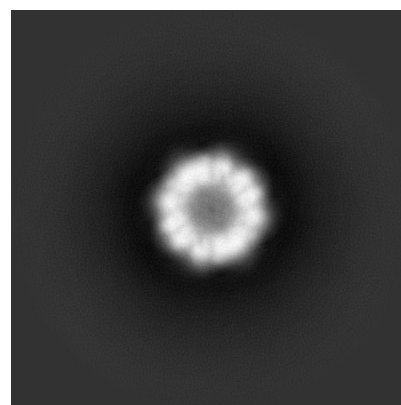
6.1.2 Raw map



X



Y

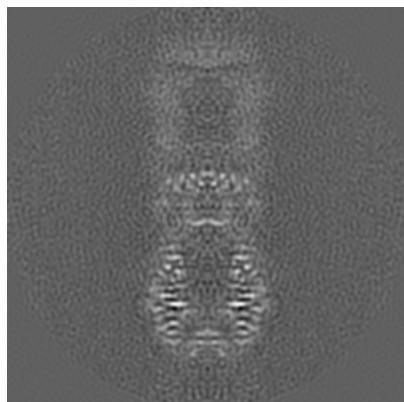


Z

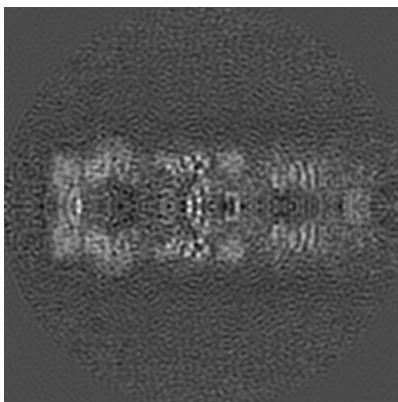
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

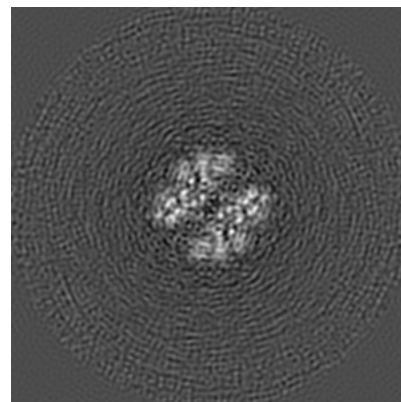
6.2.1 Primary map



X Index: 170

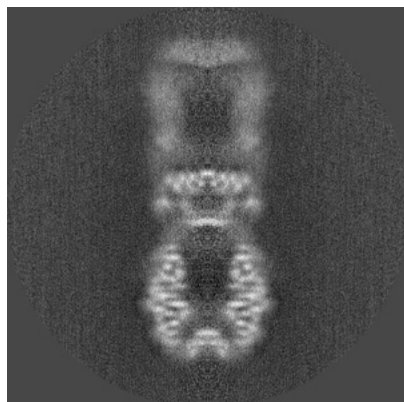


Y Index: 170

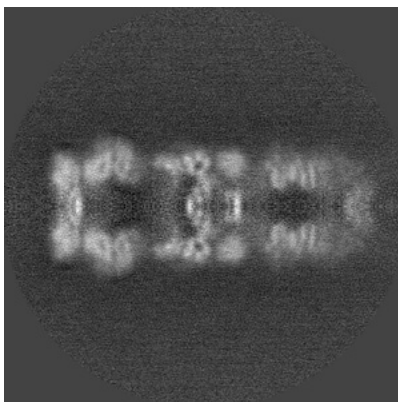


Z Index: 170

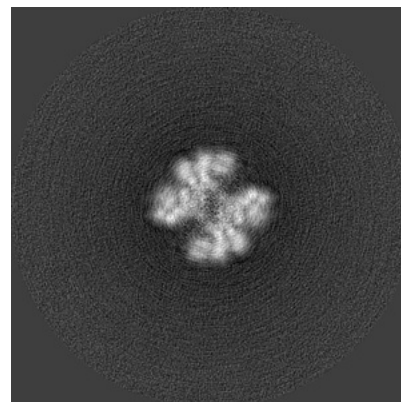
6.2.2 Raw map



X Index: 170



Y Index: 170



Z Index: 170

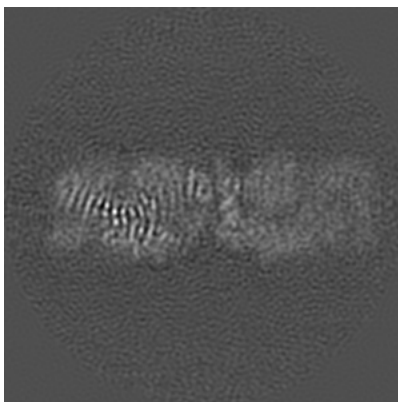
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

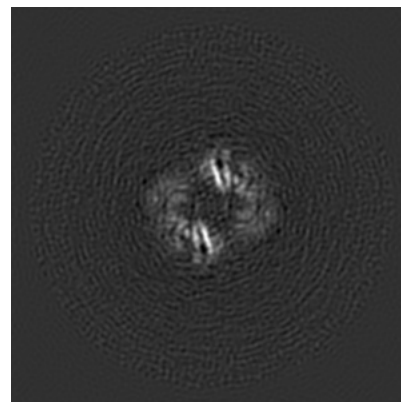
6.3.1 Primary map



X Index: 166

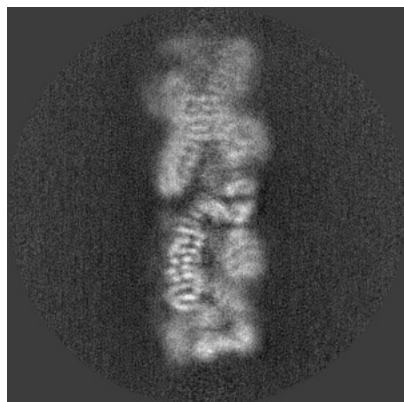


Y Index: 143

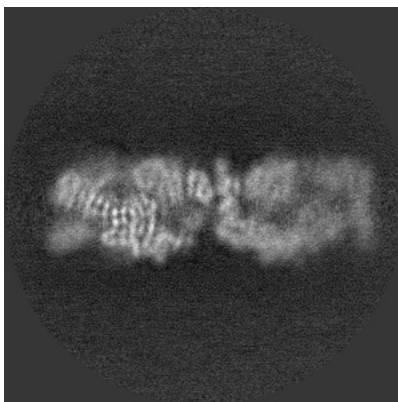


Z Index: 94

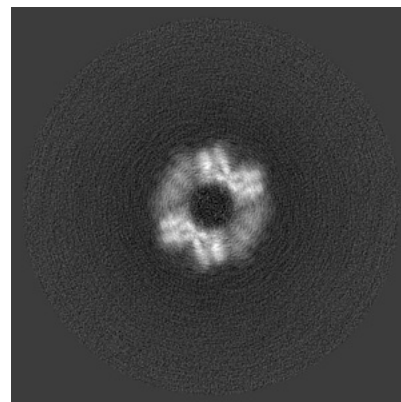
6.3.2 Raw map



X Index: 146



Y Index: 144

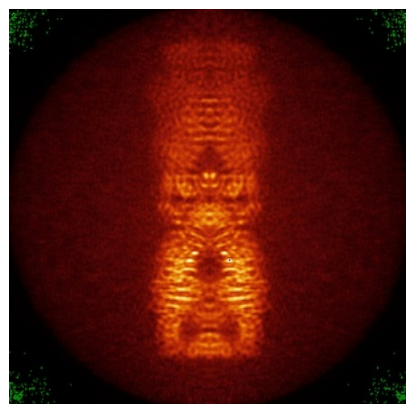


Z Index: 110

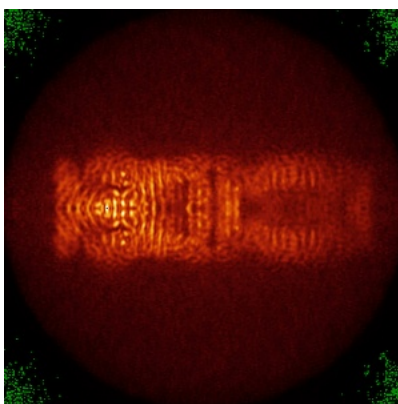
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

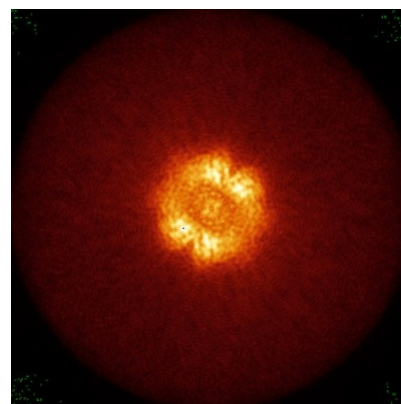
6.4.1 Primary map



X

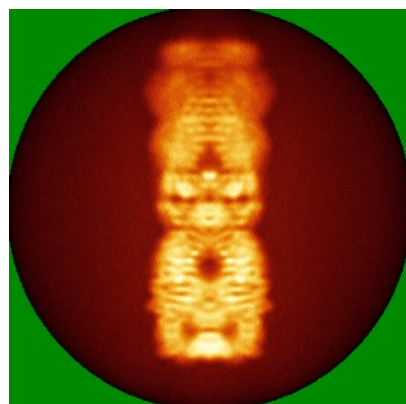


Y

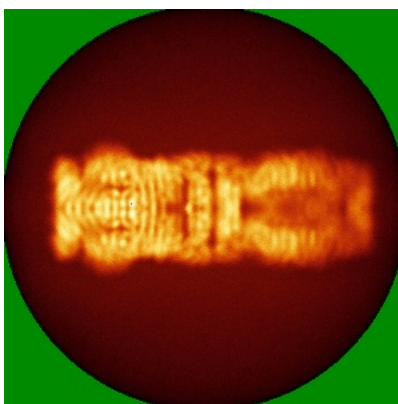


Z

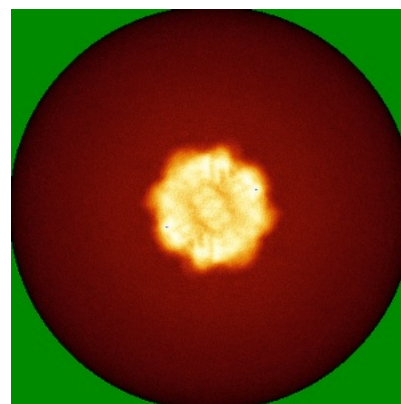
6.4.2 Raw map



X



Y

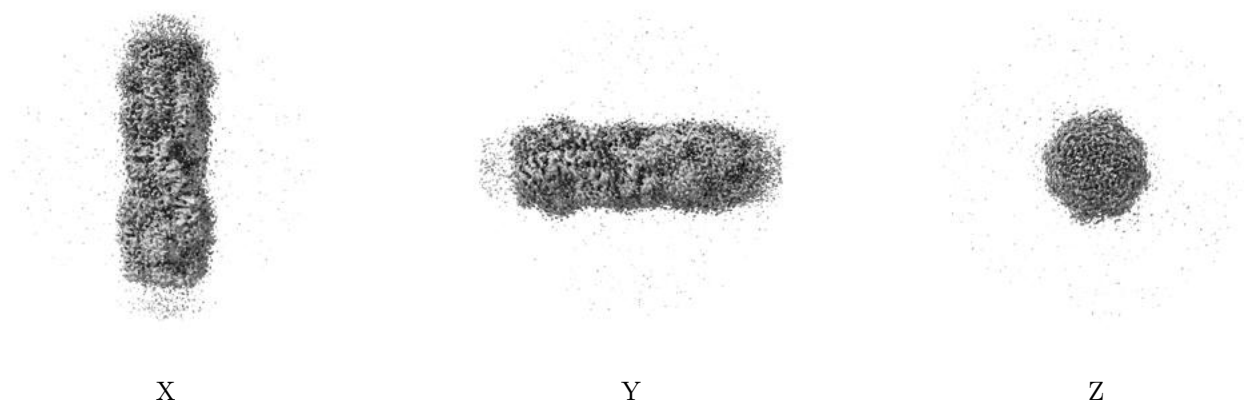


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

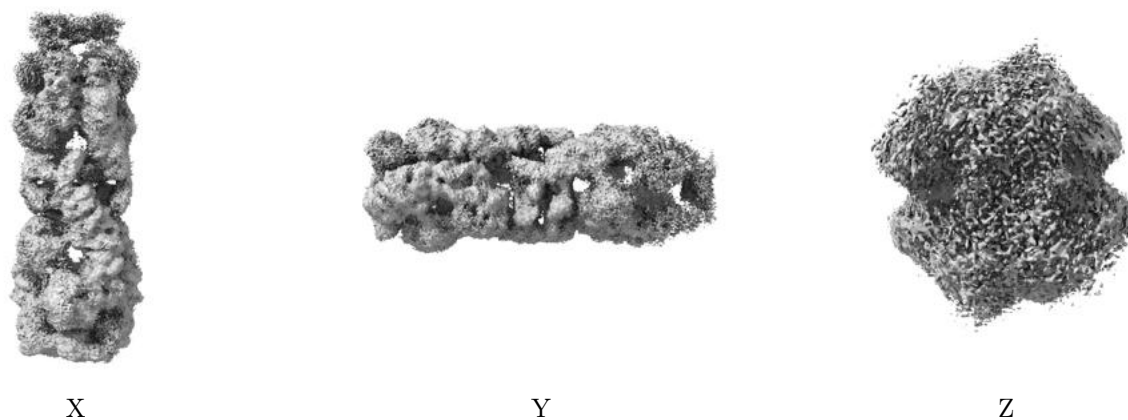
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.008. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 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.

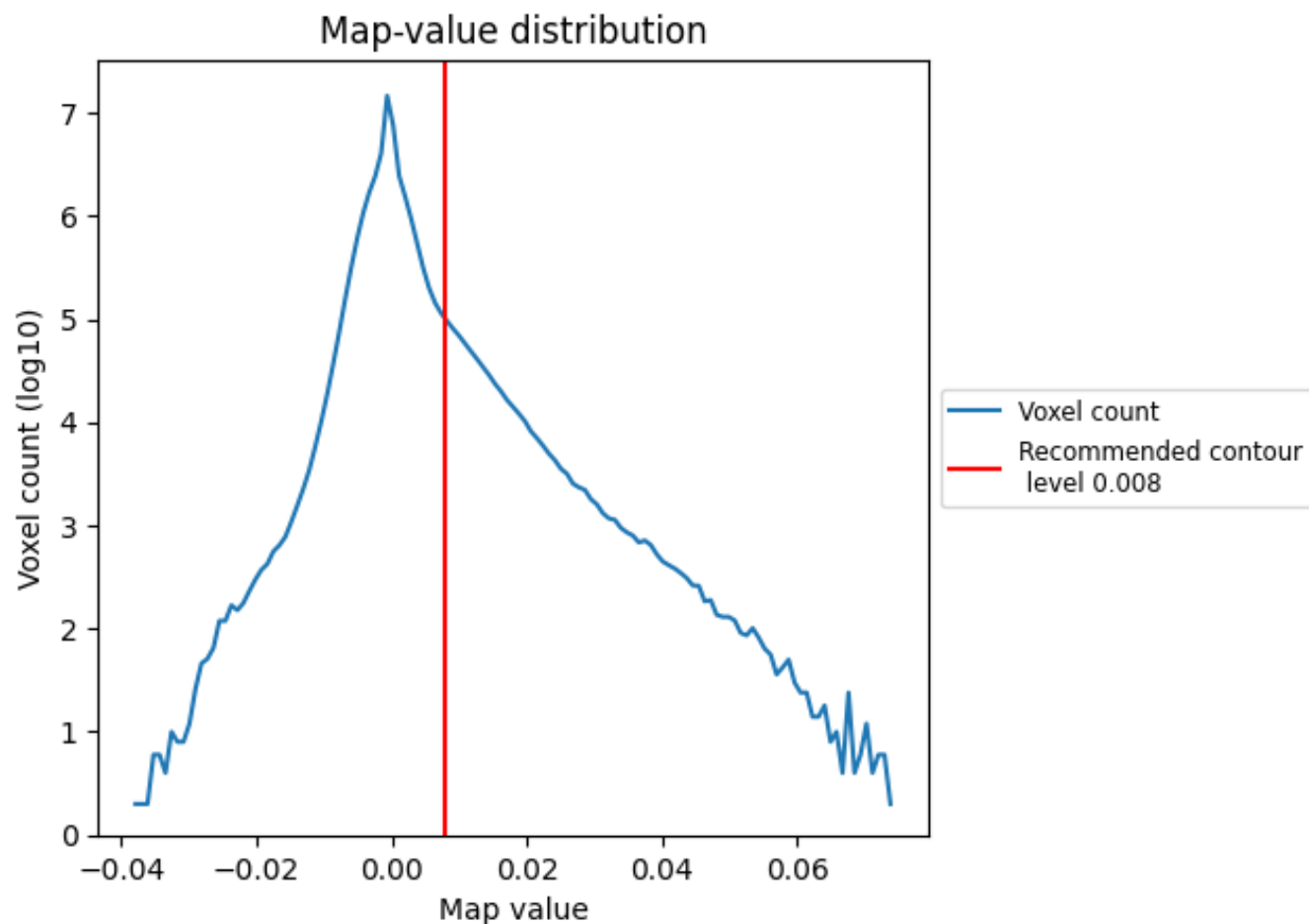
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

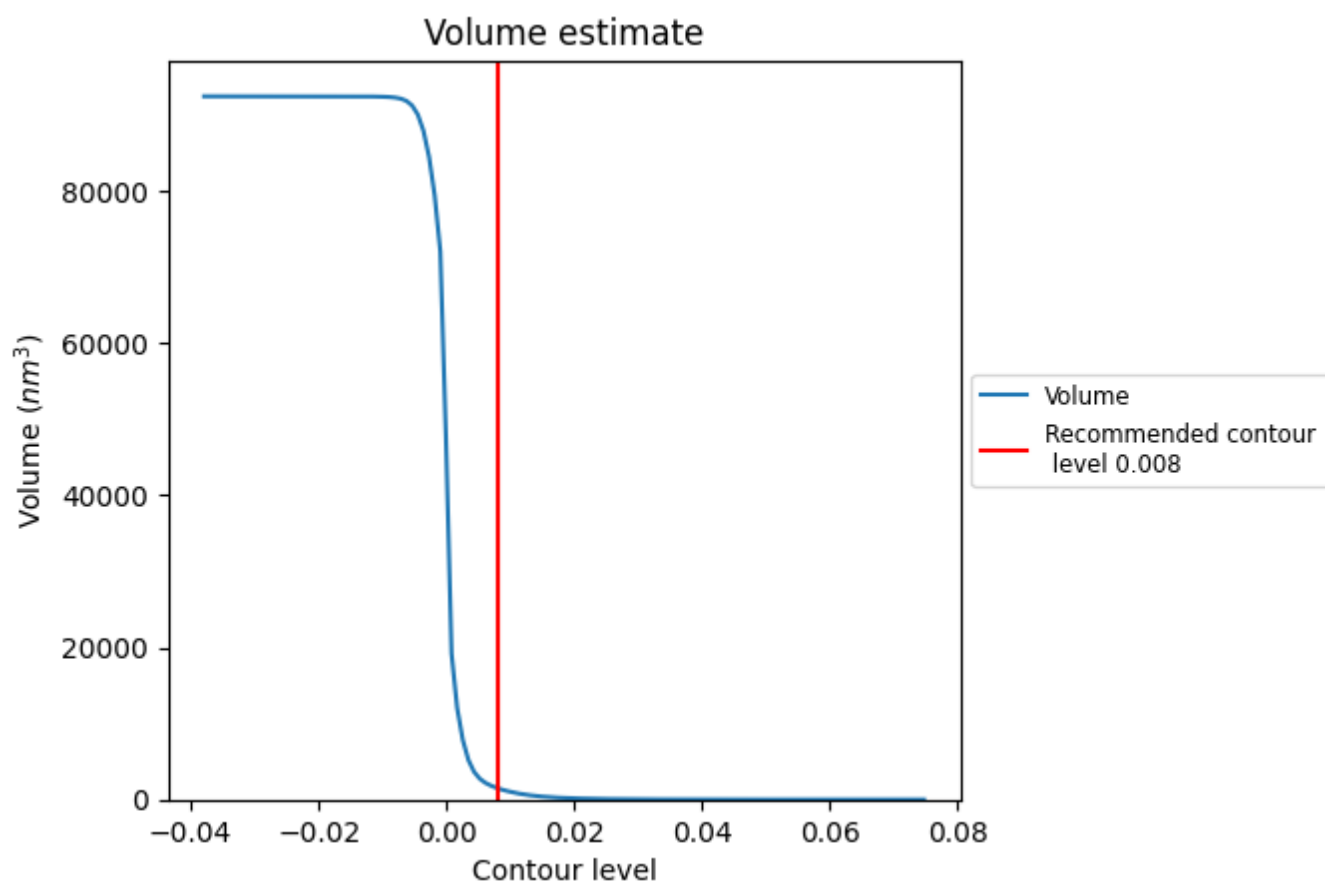
This section contains the results of statistical analysis of the map.

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.

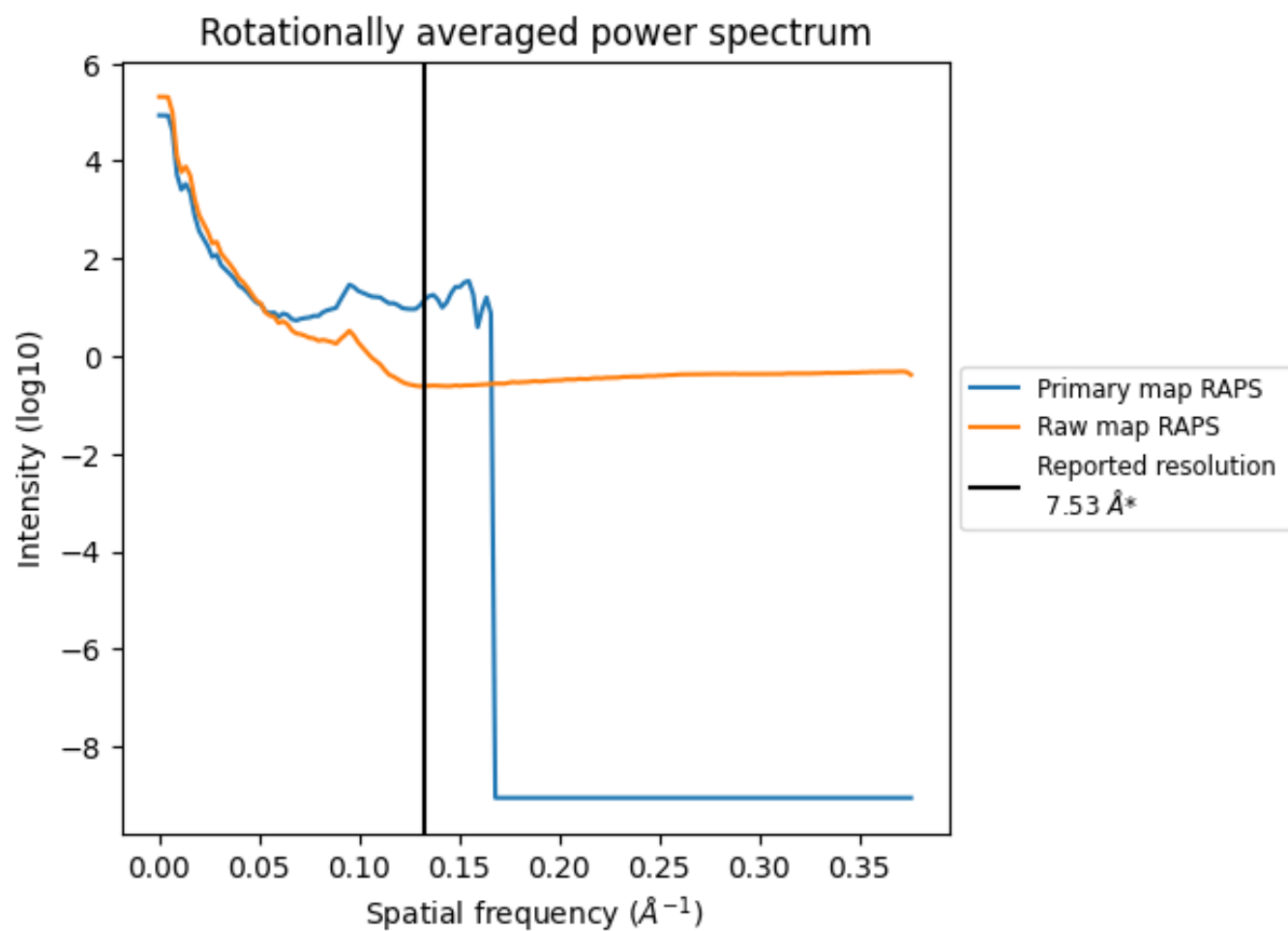
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1498 nm³; this corresponds to an approximate mass of 1353 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](#)

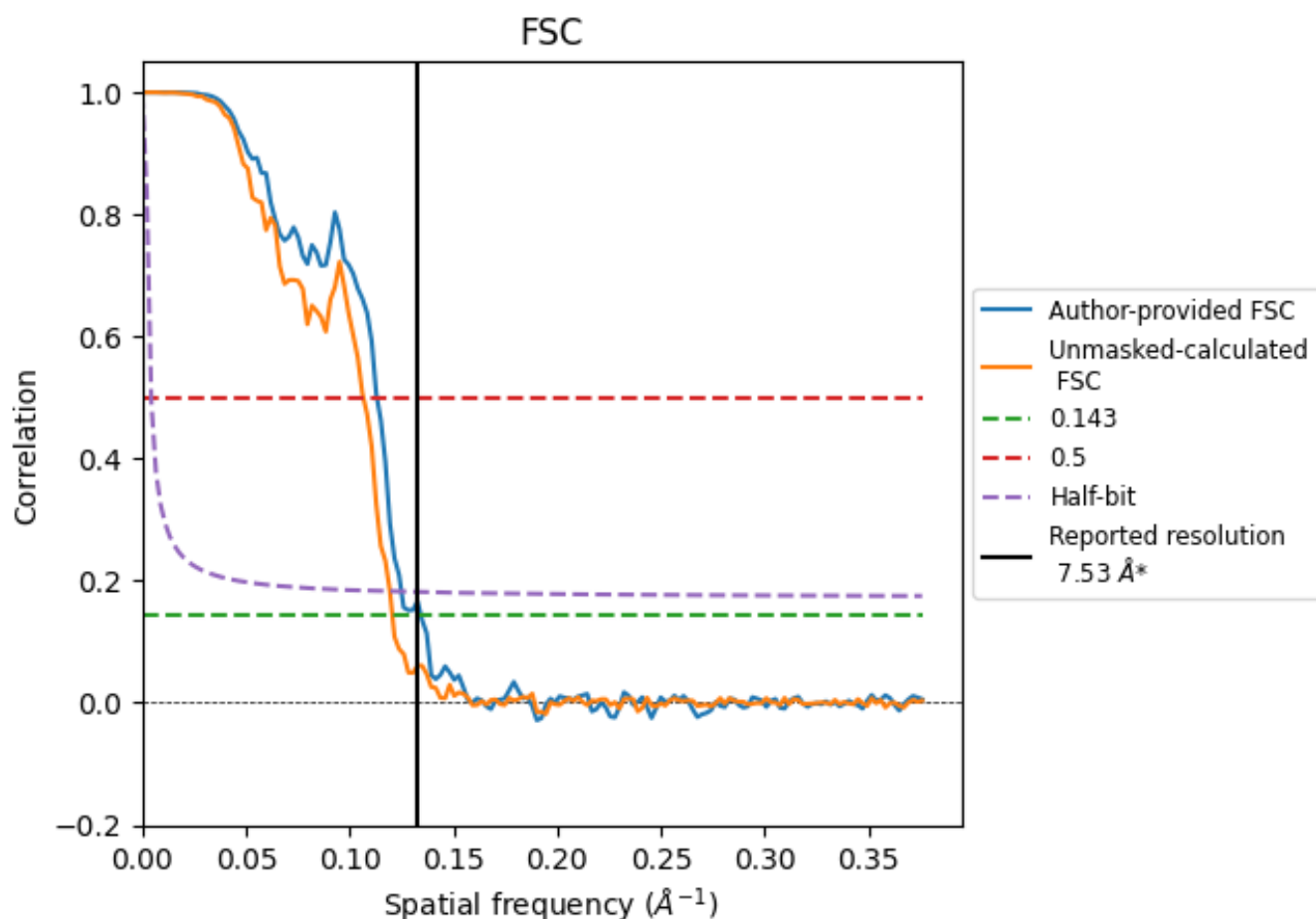


*Reported resolution corresponds to spatial frequency of 0.133 Å⁻¹

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 0.133 \AA^{-1}

8.2 Resolution estimates [i](#)

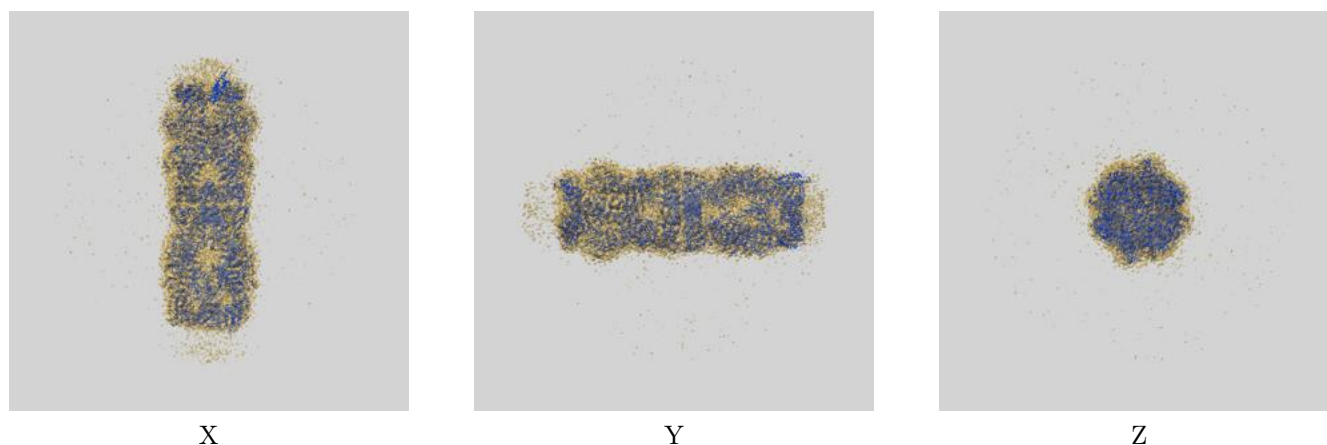
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	7.53	-	-
Author-provided FSC curve	7.44	8.84	8.00
Unmasked-calculated*	8.29	9.38	8.38

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 8.29 differs from the reported value 7.53 by more than 10 %

9 Map-model fit [i](#)

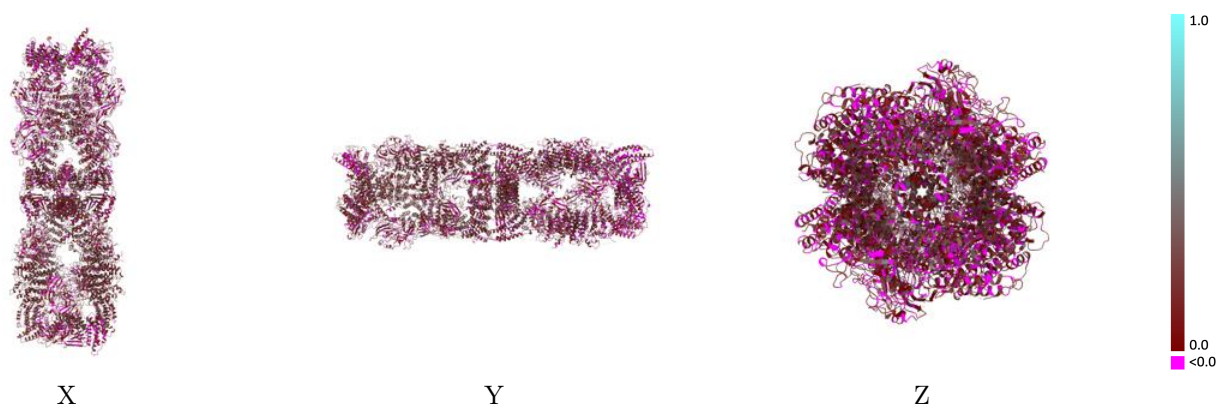
This section contains information regarding the fit between EMDB map EMD-65180 and PDB model 9VM8. Per-residue inclusion information can be found in section [3](#) on page [6](#).

9.1 Map-model overlay [i](#)



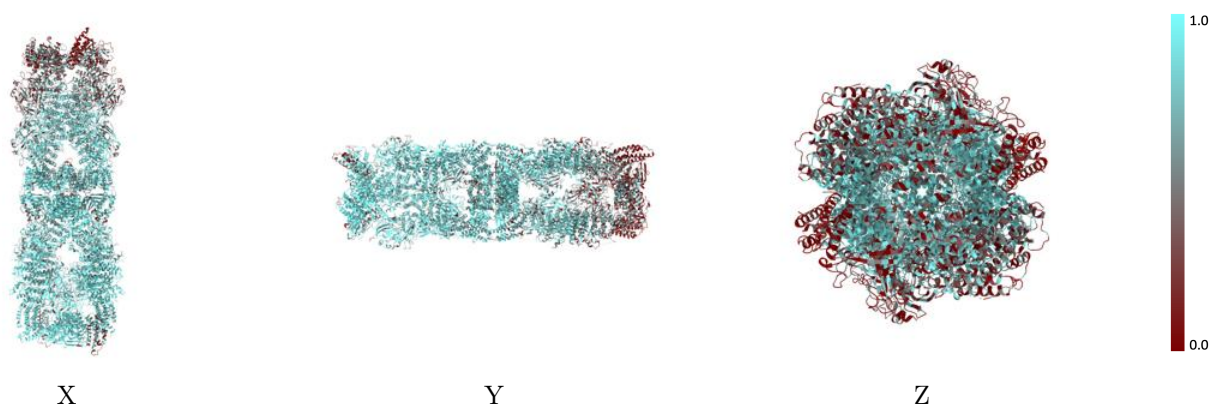
The images above show the 3D surface view of the map at the recommended contour level 0.008 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



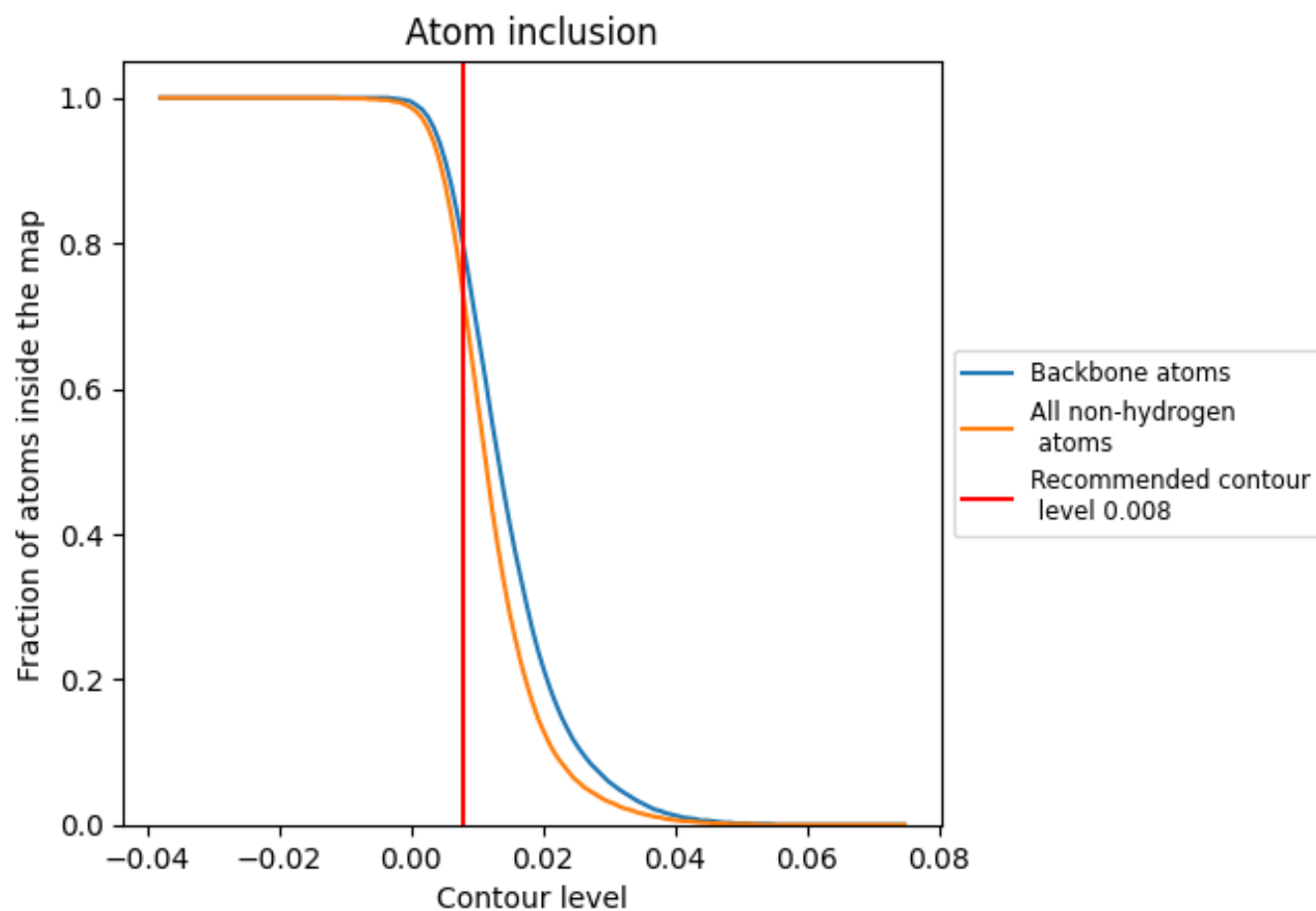
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.008).

9.4 Atom inclusion [i](#)



At the recommended contour level, 79% of all backbone atoms, 72% 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 (0.008) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.7230	<div></div> 0.1730
A	<div></div> 0.8230	<div></div> 0.1890
B	<div></div> 0.8210	<div></div> 0.1870
C	<div></div> 0.8300	<div></div> 0.1980
D	<div></div> 0.8290	<div></div> 0.1970
E	<div></div> 0.7050	<div></div> 0.1670
F	<div></div> 0.5370	<div></div> 0.1400
G	<div></div> 0.5370	<div></div> 0.1410
H	<div></div> 0.7040	<div></div> 0.1680

1.0

0.0

<0.0