



## Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 06:54 AM UTC

PDB ID : 8BOT / pdb\_00008bot  
EMDB ID : EMD-16145  
Title : Cryo-EM structure of NHEJ supercomplex(trimer)  
Authors : Hardwick, S.W.; Chaplin, A.K.  
Deposited on : 2022-11-15  
Resolution : 7.76 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](mailto: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>.

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

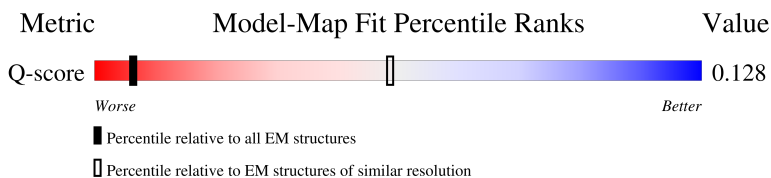
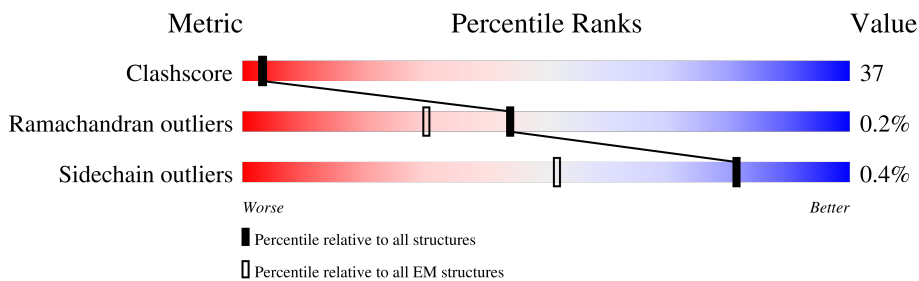
EMDB validation analysis : 0.0.1.dev132  
MolProbity : 4-5-2 with Phenix2.0  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)  
MapQ : 1.9.13  
Ideal geometry (proteins) : 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 7.76 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.





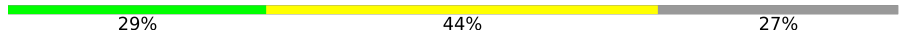
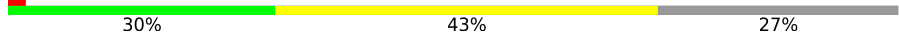

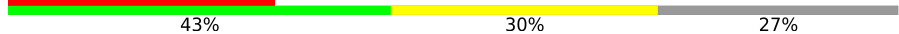
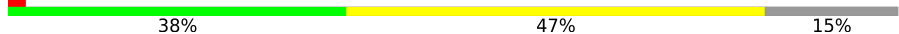
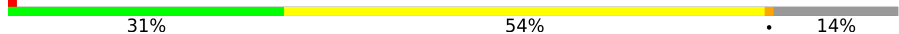
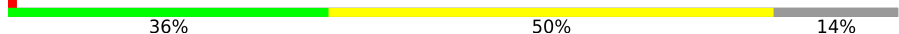
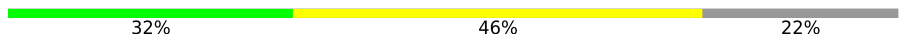
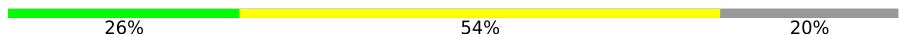
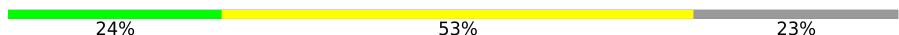
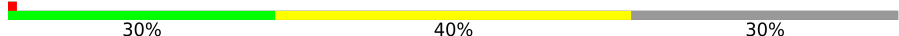


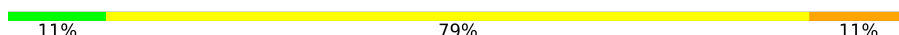

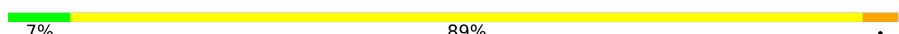



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	355 ( 7.28 - 8.25 )

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  $\geq 3$ , 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	K	336	
1	L	336	
1	N	336	
1	O	336	

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Mol	Chain	Length	Quality of chain
2	M	911	
2	P	911	
3	Q	299	
3	R	299	
3	X	299	
3	Y	299	
4	A	4128	
4	F	4128	
4	S	4128	
5	B	609	
5	G	609	
5	T	609	
6	C	732	
6	H	732	
6	U	732	
7	I	28	
7	V	28	
8	J	27	
8	W	27	
9	D	24	
10	E	24	

## 2 Entry composition [i](#)

There are 10 unique types of molecules in this entry. The entry contains 129197 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 DNA repair protein XRCC4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	K	201	Total 1618	C 1025	N 277	O 310	S 6	0	0
1	L	195	Total 1579	C 1001	N 271	O 301	S 6	0	0
1	N	201	Total 1625	C 1028	N 278	O 312	S 7	0	0
1	O	195	Total 1577	C 999	N 269	O 302	S 7	0	0

- Molecule 2 is a protein called DNA ligase 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	M	258	Total 2087	C 1327	N 353	O 394	S 13	0	0
2	P	258	Total 2091	C 1331	N 353	O 394	S 13	0	0

- Molecule 3 is a protein called Non-homologous end-joining factor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	Q	218	Total 1723	C 1099	N 290	O 319	S 15	0	0
3	R	218	Total 1739	C 1113	N 290	O 321	S 15	0	0
3	X	218	Total 1733	C 1108	N 290	O 320	S 15	0	0
3	Y	218	Total 1739	C 1113	N 290	O 321	S 15	0	0

- Molecule 4 is a protein called DNA-dependent protein kinase catalytic subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	F	3535	Total	C	N	O	S	0	0
			27665	17763	4658	5065	179		
4	A	3528	Total	C	N	O	S	0	0
			27365	17573	4573	5050	169		
4	S	3536	Total	C	N	O	S	0	0
			27830	17880	4691	5078	181		

- Molecule 5 is a protein called X-ray repair cross-complementing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	G	489	Total	C	N	O	S	0	0
			3924	2515	667	724	18		
5	B	473	Total	C	N	O	S	0	0
			3646	2346	606	676	18		
5	T	470	Total	C	N	O	S	0	0
			3764	2404	644	698	18		

- Molecule 6 is a protein called X-ray repair cross-complementing protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	H	642	Total	C	N	O	S	0	0
			5128	3285	860	958	25		
6	C	511	Total	C	N	O	S	0	0
			3968	2535	662	750	21		
6	U	642	Total	C	N	O	S	0	0
			5143	3292	864	962	25		

- Molecule 7 is a DNA chain called DNA (28-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
7	I	28	Total	C	N	O	P	0	0
			576	277	107	164	28		
7	V	28	Total	C	N	O	P	0	0
			576	277	107	164	28		

- Molecule 8 is a DNA chain called DNA (27-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
8	J	27	Total	C	N	O	P	0	0
			557	269	94	167	27		
8	W	27	Total	C	N	O	P	0	0
			557	269	94	167	27		

- Molecule 9 is a DNA chain called DNA (24-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
9	D	24	493	238	92	139	24	0	0

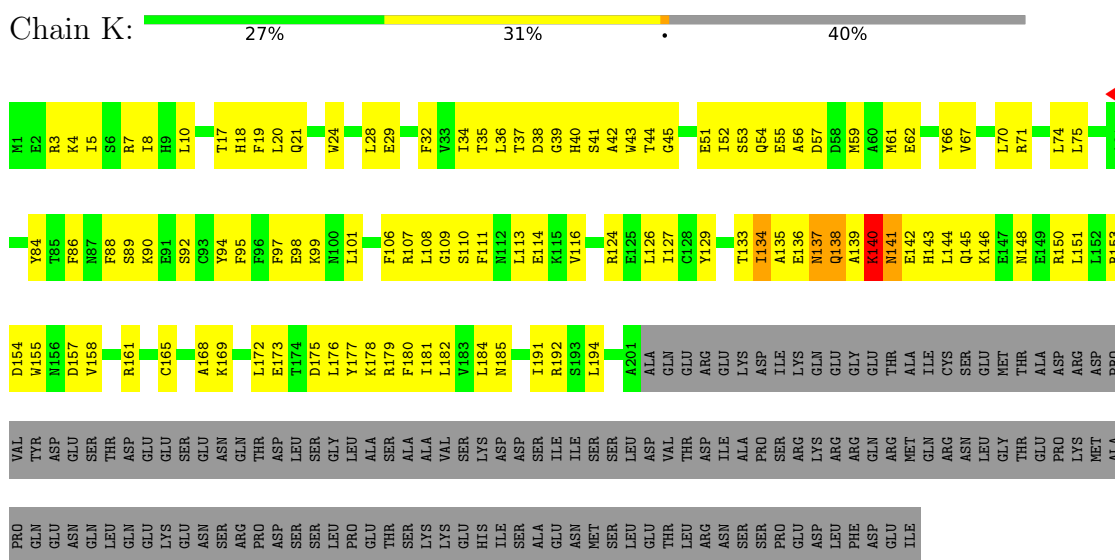
- Molecule 10 is a DNA chain called DNA (24-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
10	E	24	494	240	81	149	24	0	0

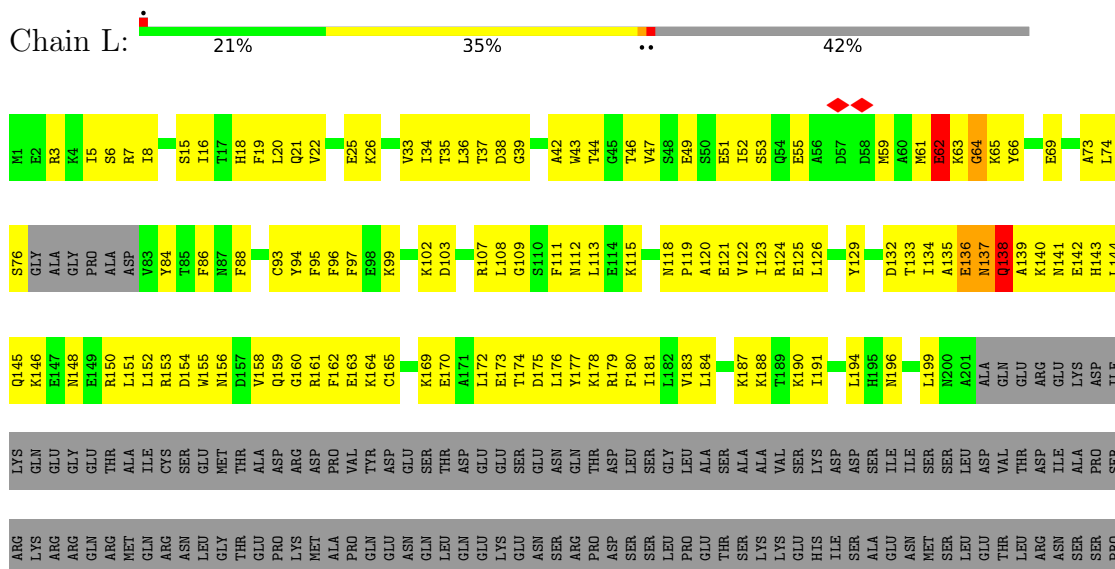
### 3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

#### • Molecule 1: DNA repair protein XRCC4

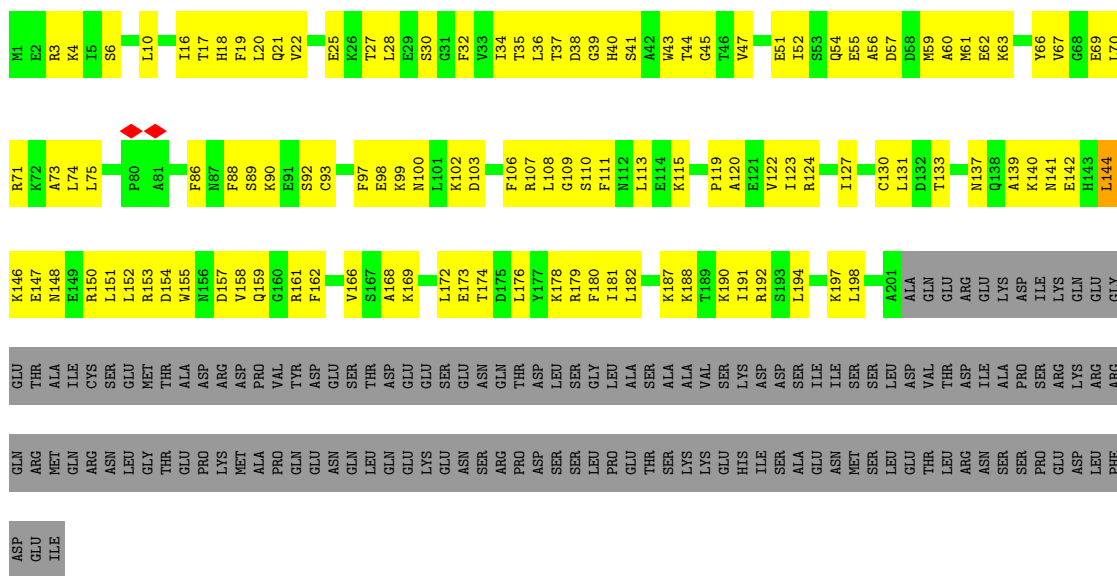
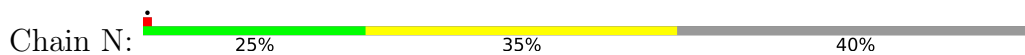


#### • Molecule 1: DNA repair protein XRCC4

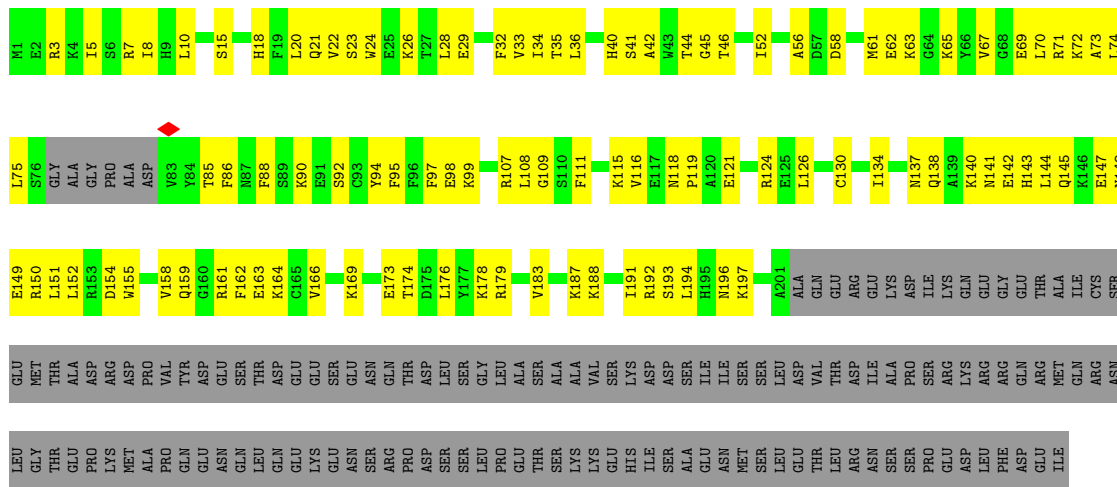
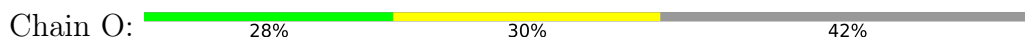


GLU  
ASP  
LEU  
PHE  
ASP  
GLU  
ILE

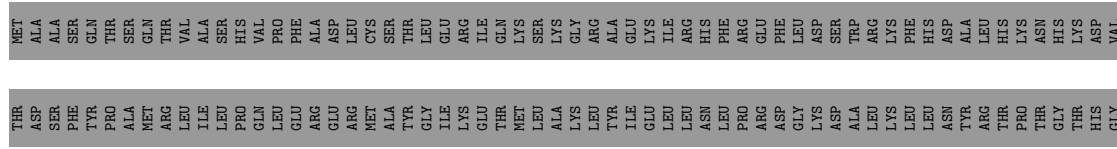
• Molecule 1: DNA repair protein XRCC4



• Molecule 1: DNA repair protein XRCC4

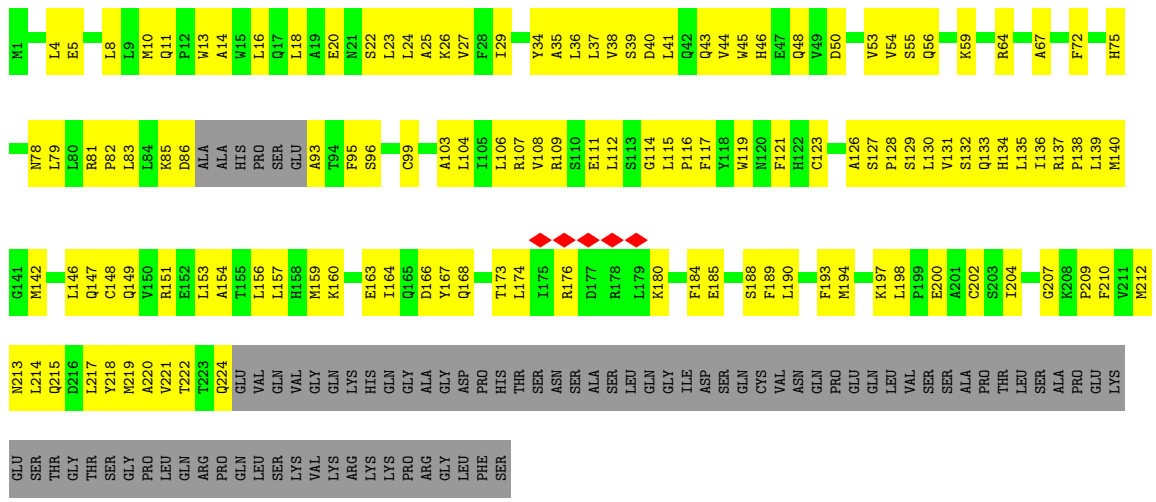


• Molecule 2: DNA ligase 4

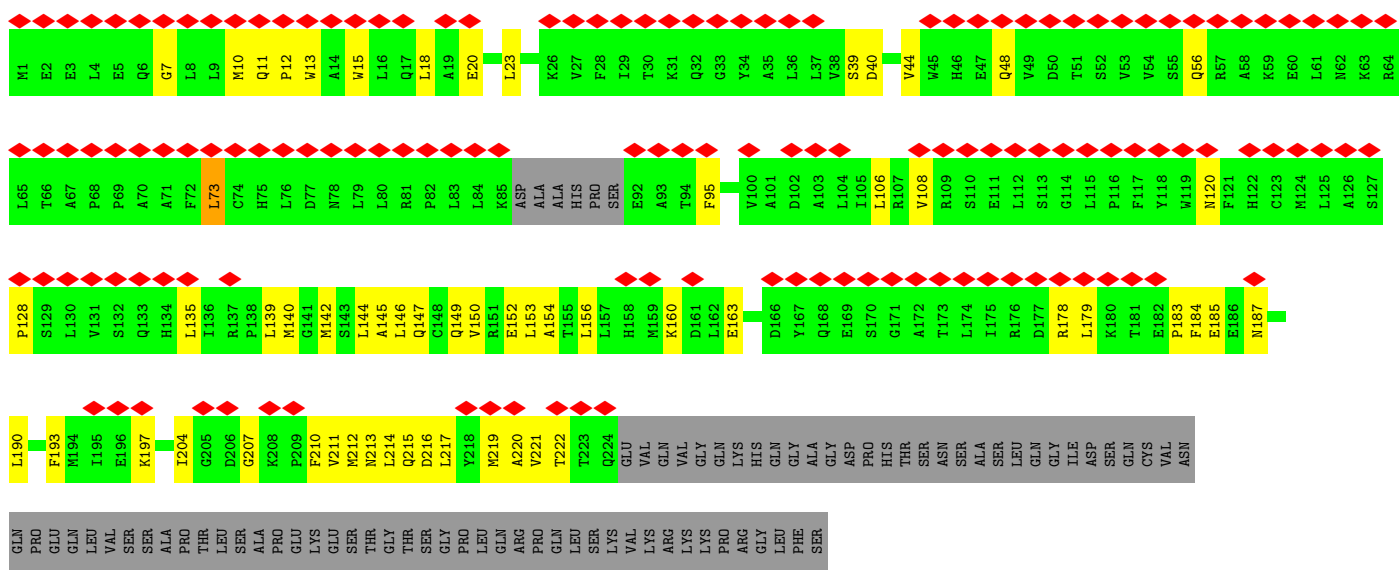




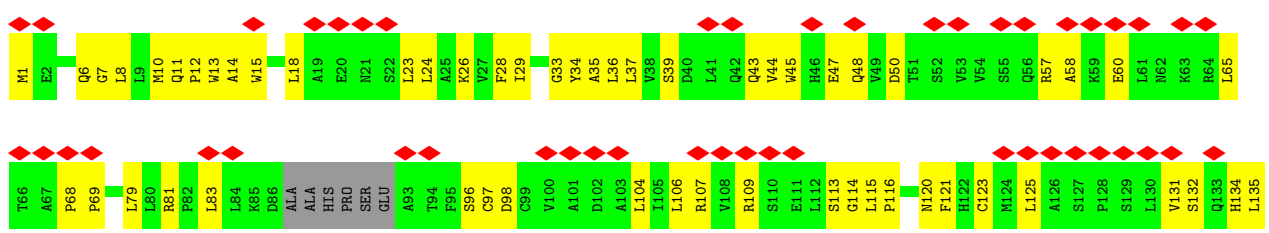


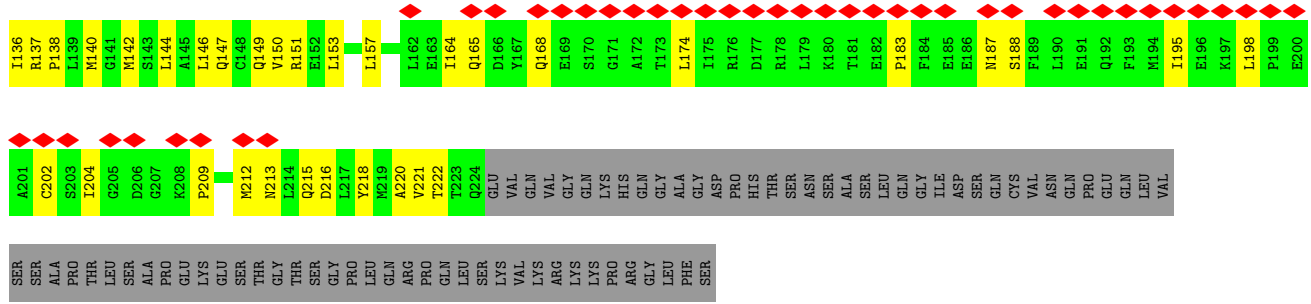


• Molecule 3: Non-homologous end-joining factor 1

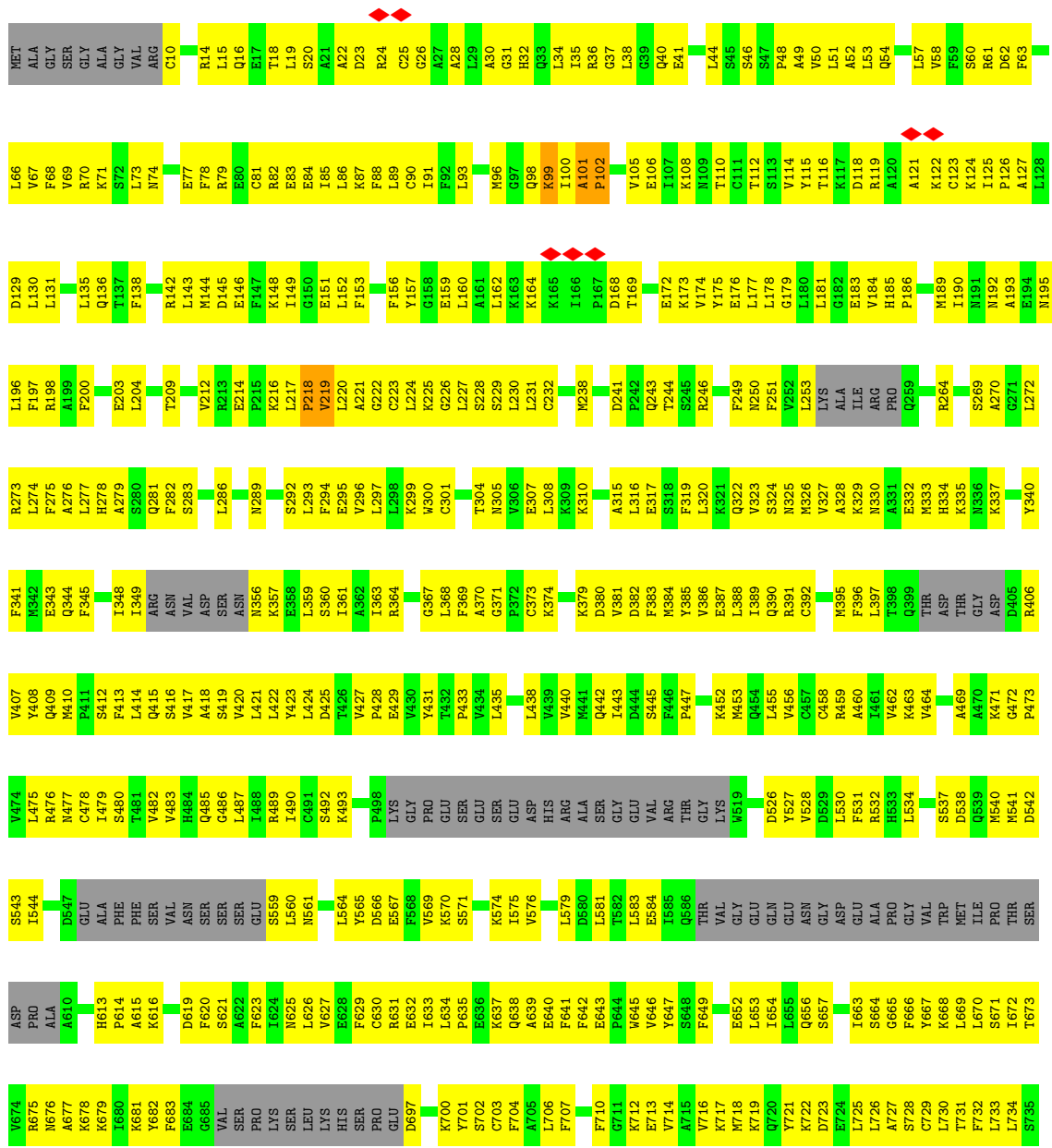


• Molecule 3: Non-homologous end-joining factor 1





● Molecule 4: DNA-dependent protein kinase catalytic subunit



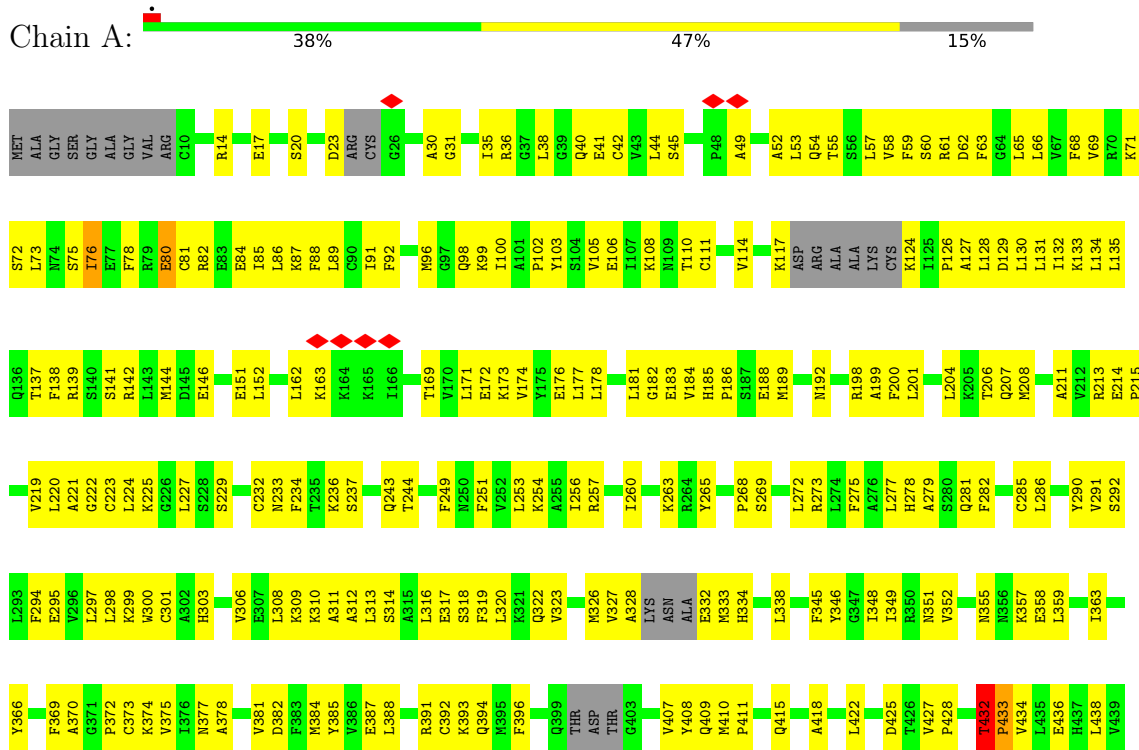
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P737	LYS	THR	M937	D1005	M1071	I1138	D1210	L1282	L1948	D1413	T1481	V1560	H1625
H738	ASN	SER	V938	T1006	A1072	E1139	L1349	L1282	L1349	I1413	G1490	H1550	H1626
N739	ASN	SER	M939	T1009	F1073	K1140	K1213	E1285	N1350	L1415	T1491	H1552	K1627
I740	TRP	ASP	F940	L1009	K1074	K1141	K1213	E1285	T1351	E1416	A1492	F1553	K1628
Y741	GLU	GLU	M941	L1010	R1075	H1142	L1220	Q1287	S1352	T1417	PRD	S1554	G1629
E742	VAL	VAL	M941	E1011	L1076	Y1143	L1220	S1288	P1353	H1418	GLY	H1555	D1630
D744	SER	SER	E980	A1012	G1077	S1144	I1221	S1289	W1356	H1419	ASP	G1556	S1631
L745	ALA	ALA	K881	I1013	A1078	L1145	F1224	K1292	K1357	R1420	GLU	E1557	W1632
R746	LEU	LEU	G951	I1014	A1081	M1146	G1227	A1293	L1358	K1422	ARG	E1421	A1633
V746	SER	SER	G952	D1015	F1082	K1147	G1228	A1296	L1359	L1423	GLN	F1558	A1634
A747	ARC	ARC	Q953	G1016	F1082	A1148	G1228	A1296	L1360	I1423	CYS	Y1560	D1636
Y748	ALA	ALA	G954	I1017	M1083	K1149	C1229	F1296	K1361	T1424	LEU	S1561	K1637
V749	ALA	ALA	A955	V1018	M1084	K1150	C1229	F1296	K1361	A1425	PRO	L1562	S1637
P750	GLN	GLN	P986	D1019	I1085	R1151	Q1230	F1297	D1362	Q1426	SER	F1563	P1638
A755	GLY	GLY	M958	I1020	Y1086	R1152	Q1231	L1298	L1363	S1427	L1503	F1564	L1639
G759	THR	THR	M958	V1021	R1087	L1153	P1232	E1299	C1364	E1430	D1504	I1567	K1642
Y762	THR	THR	Q960	L1025	E1088	P1154	S1233	S1300	S1300	L1430	L1505	N1568	M1643
L765	K832	K832	K963	C1029	E1092	F1187	L1235	A1302	H1367	L1434	C1507	L1649	L1649
A766	H833	H833	K963	G1030	E1092	L1163	L1236	A1303	M1303	N1435	K1508	L1652	L1652
E767	L834	L834	T965	R1031	L1095	C1164	Q1238	H1304	M1369	H1436	Q1509	L1655	L1655
V768	K835	K835	F966	C1032	L1096	L1165	P1239	D1305	R1370	Y1437	L1510	D1656	D1656
G769	K836	K836	P967	I1033	V1096	L1166	L1240	I1307	V1371	L1372	S1512	S1657	S1657
L770	T937	T937	F988	R1034	F1099	L1168	LEU	A1308	T1375	A1441	G1513	L1660	L1660
N771	K838	K838	L969	E1035	V1100	L1169	LEU	A1309	L1376	Q1442	L1514	A1578	A1578
A772	N839	N839	R999	E1036	F1101	L1170	TYR	E1310	L1376	V1443	L1514	A1578	A1578
L773	L840	L840	L970	F1036	E1102	K1171	LEU	K1312	A1380	D1444	E1516	F1661	F1661
E774	SER	SER	R971	L1037	E1102	W1171	ARG	C1311	A1380	R1445	L1517	F1662	F1662
E775	ASN	ASN	L972	K1038	A1103	L1172	GLY	F1313	S1381	S1446	A1518	E1581	E1581
W776	GLU	GLU	A973	W1039	L1104	L1173	PRO	GLY	I1382	R1447	F1519	L1582	L1582
Y777	ALA	ALA	C974	S1040	V1105	A1174	PHE	THR	G1383	L1448	A1520	M1583	M1583
Y779	ILE	ILE	D975	I1041	I1106	H1175	L1249	GLY	F1384	A1449	F1521	T1590	T1590
I780	L848	L848	D977	Q1043	Y1107	H1175	L1250	ALA	I1385	V1451	A1450	K1591	K1591
D781	E849	E849	Q978	Q1043	Y1107	H1175	Q1251	ALA	I1385	V1451	A1450	M1592	M1592
H782	E850	E850	Y979	I1044	M1108	P1179	Q1251	ALA	I1385	V1451	A1450	V1593	V1593
V783	E851	E851	T980	I1044	M1108	Q1180	L1254	ASN	G1387	A1454	A1454	S1594	S1594
M784	E852	E852	R981	I1044	M1108	I1181	W1256	ASN	E1182	A1454	A1454	E1670	E1670
M785	E853	E853	Q982	E1050	H1115	C1183	W1257	ARG	E1182	T1322	S1323	M1599	M1599
Q786	R852	R852	Y984	E1051	A1116	R1184	D1258	E1326	H1185	S1323	S1323	V1599	V1599
P787	R854	R854	E985	S1052	D1117	K1185	L1259	G1327	L1259	A1393	A1393	F1672	F1672
Y788	R854	R854	P986	P1053	E1118	S1187	L1260	E1328	L1260	L1395	L1395	T1673	T1673
Y789	Q857	Q857	L987	V1054	K1119	S1187	L1261	R1329	P1396	H1459	H1459	Y1675	Y1675
I792	R858	R858	M989	M1055	S1120	L1190	A1262	R1329	D1397	R1460	R1460	I1676	I1676
Y799	G860	G860	Q990	K1057	S1120	L1190	A1263	R1329	D1397	A1461	A1461	S1677	S1677
L800	G861	G861	T920	T1056	M1055	F1191	L1264	R1329	V1398	G1462	G1462	L1678	L1678
K801	G862	G862	A921	L1058	L1121	Y1192	L1264	R1329	C1399	L1463	L1463	L1679	L1679
T802	G863	G863	L991	L1058	T1123	K1193	E1265	K1334	A1399	V1400	V1400	D1681	D1681
S803	G864	G864	H994	F1060	I1124	F1194	C1266	K1334	M1401	L1401	L1401	L1684	L1684
ALA	Q865	Q865	W995	K1061	Q1125	F1194	M1268	V1338	L1402	M1403	M1403	D1685	D1685
LEU	R866	R866	F995	R1062	Q1126	L1198	M1268	V1338	K1404	K1404	K1404	L1686	L1686
LEU	R867	R867	T996	L1063	Q1126	L1198	M1268	V1338	L1406	L1406	L1406	H1687	H1687
ASP	K868	K868	N997	L1064	Q1126	L1198	M1268	V1338	M1342	M1342	M1342	L1688	L1688
GLU	L871	L871	K1000	L1066	A1130	L1198	L1271	T1346	M1408	M1408	M1408	K1689	K1689
THR	H935	H935	F1001	H1069	L1131	R1202	G1272	T1346	S1409	S1409	S1409	G1690	G1690
			E1002		H1133	S1203	R1274	T1346	F1344	F1344	F1344	V1693	V1693
			S1003		H1134	S1203	T1275	T1346	T1346	T1346	T1346		
					C1135	L1206	L1279	T1346	Y1411	Y1411	Y1411		
					R1136	L1206	L1279	T1346					

P2575	L2386	G2324	K2259	L2194	F2128	PHE	R1883	R1822	L1761	T1694
P2576	F2387	L2325	F2260	S2195	L2129	ARG	L1884	S1823	M1762	
P2577	L2451	I2326	S2261	W2196	L2133	ARG	F1885	L1824	T1763	P1697
P2578	R2452	L2327	G2262	T2197	L2134	LYS	P1885	L1825	L1764	F1698
P2579	E2453	R2328	K2263	G2198	G2135	GLU	ASP	T1826	V1765	F1699
P2580	L2454	R2329	D2264	L2199	N2135	ALA	ASP	L1827	L1766	THR
P2581	L2393	Y2329	K2265	A2200	P2136	ARG	VAL	L1828	C1767	SER
P2582	K2394	V2330	N2266	T2201	F2137	GLU	HIS	W1829	R1768	LEU
P2583	F2395	M2331	S2267	P2202	I2138	ASP	ALA	H1830	R1769	THR
P2584	L2396	K2334	K2268	V2205	P2139	PRO	ALA	H1831	Q1770	GLY
P2585	C2397	N2335	D2269	L2140	P2139	THR	LYS	S1832	Q1771	GLY
P2586	L2398	L2336	N2270	HIS	N2141	ASN	GLU	S1833	Q1772	GLY
P2587	E2399	V2336	N2271	ASP	L2142	LYS	LYS	D1834	H1772	SER
P2588	V2400	V2400	V2272	ASP	R2143	ASP	ILE	A1835	M1773	SER
P2589	H2464	E2386	G2273	VAL	L2144	VAL	ASN	L1836	E1708	E1708
P2590	P2457	E2339	G2274	VAL	L2145	LEU	GLN	L1837	E1709	E1709
P2591	V2458	E2339	T2274	LEU	L2146	LEU	GLN	L1837	E1710	E1710
P2592	F2461	L2341	A2212	GLU	L2146	PRO	VAL	E1838	L1777	R1711
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P2594	L2398	C2342	R2214	GLU	A2147	TYR	HIS	Q1779	V1713	V1713
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P2596	V2462	L2344	L2216	ASN	L2149	TYR	LYS	I1843	E1715	E1715
P2597	S2463	L2344	N2281	GLU	V2150	SER	LYS	V1844	Q1716	Q1716
P2598	H2464	C2344	F2218	LEU	I2151	SER	ILE	V1845	F1782	F1782
P2599	P2457	L2344	F2218	LEU	E2154	ASN	THR	D1846	R1783	R1783
P2600	V2462	L2344	L2219	LEU	E2155	ASN	THR	A1847	L1784	L1784
P2601	S2463	L2344	M2220	PRO	V2156	PRO	GLY	I1848	I1785	I1785
P2602	R2470	K2350	K2281	LEU	F2157	ALA	GLY	I1848	A1786	A1786
P2603	E2471	Q2351	H2222	ALA	E2092	ALA	M1909	D1849	R1787	R1787
P2604	M2408	H2352	V2223	ASP	R2091	ASP	E1910	D1849	Q1795	Q1795
P2605	T2409	R2352	V2223	LYS	E2092	LYS	E1910	V1850	R1788	R1788
P2606	Q2472	H2352	V2223	LYS	M2094	ASN	ASN	Q1795	Q1795	Q1795
P2607	M2473	Q2346	F2224	THR	M2094	THR	ASN	L1851	S1726	S1726
P2608	E2410	Q2347	H2225	THR	Y2160	THR	LEU	L1852	R1727	R1727
P2609	Y2474	N2354	D2289	THR	A2161	LEU	LEU	SER	S1790	S1790
P2610	L2411	T2355	P2290	LEU	K2162	LEU	LEU	SER	E1728	E1728
P2611	Y2412	T2355	K2227	SER	L2162	SER	ILE	ARG	F1729	F1729
P2612	F2413	M2356	R2228	GLU	R2163	GLU	PHE	ARG	Q1794	Q1794
P2613	F2413	K2350	C2292	GLU	L2169	GLU	GLU	THR	M1795	M1795
P2614	Q2414	Q2351	C2292	GLU	W2164	GLU	ASN	LEU	G1792	G1792
P2615	L2415	H2352	C2292	GLU	L2165	GLU	ASN	ASN	L1797	L1797
P2616	K2416	Q2353	F2231	THR	L2166	SER	LEU	ASN	L1798	L1798
P2617	R2416	N2354	F2231	THR	L2171	THR	LEU	ASN	E1799	E1799
P2618	M2424	R2362	R2232	GLN	P2167	GLN	ILE	GLU	S1800	S1800
P2619	R2425	C2363	H2233	PHE	L2168	PHE	ASP	SER	V1801	V1801
P2620	F2426	L2364	N2234	ASP	L2169	ASP	LEU	THR	Y1798	Y1798
P2621	R2427	N2365	N2234	ASP	Q2170	LYS	LYS	SER	Y1802	Y1802
P2622	D2428	K2366	V2230	SER	Q2170	THR	ARG	THR	E1803	E1803
P2623	D2429	V2367	Q2301	THR	A2172	THR	ARG	THR	V1740	V1740
P2624	E2430	V2367	Q2301	THR	A2172	THR	ARG	THR	D1741	D1741
P2625	R2431	T2368	V2304	GLY	A2173	GLY	TYR	TYR	M1804	M1804
P2626	R2431	K2369	V2304	PRO	A2173	PRO	MET	TYR	C1742	C1742
P2627	Q2432	K2369	M2307	PRO	N2176	PRO	ALA	ALA	M1743	M1743
P2628	K2433	F2371	S2308	GLN	ASN	GLN	GLY	LYS	L1744	L1744
P2629	V2434	F2372	F2309	GLY	GLY	TYR	VAL	ASP	K1745	K1745
P2630	L2435	P2373	V2310	GLU	G2179	GLU	GLU	ASP	K1746	K1746
P2631	L2436	P2374	R2311	GLU	E2180	TYR	VAL	ASP	F1746	F1746
P2632	L2436	L2374	Y2312	ASP	G2181	TYR	VAL	PRO	M1871	M1871
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P2634	I2439	R2377	K2313	SER	F2182	SER	VAL	ARG	Y1873	Y1873
P2635	Y2440	F2377	Y2316	VAL	H2183	VAL	PRO	PRO	L1874	L1874
P2636	K2441	F2378	A2317	PRO	H2183	VAL	PRO	ASP	K1875	K1875
P2637	M2442	M2379	A2317	PRO	M2185	PRO	GLU	ASP	L1876	L1876
P2638	M2443	N2380	A2318	ARG	M2185	PRO	GLU	ASP	R1815	R1815
P2639	L2507	A2381	A2319	ARG	V2186	ARG	ARG	ARG	R1816	R1816
P2640	L2445	A2382	A2320	ALA	V2187	ARG	LYS	ARG	Q1817	Q1817
P2641	K2445	V2382	A2320	ALA	E2188	ALA	LYS	LYS	S1818	S1818
P2642	L2446	F2383	E2321	THR	E2188	THR	LYS	LYS	F1819	F1819
P2643	L2446	F2383	V2322	THR	T2192	THR	TYR	TYR	L1759	L1759
P2644	P2448	L2395	E2288	ARG	I2193	ARG	ILE	ILE	D1821	D1821

D5891	G8527	K3455	A3391	F3188	Q8112	K3048	ARG	H2777	LYS	ASP
V3582	A3528	L3456	A3392	F3189	N3113	L3049	GLY	G2778	ARG	PHE
R3593	I3529	R3587	E3393	L3190	Y3114	K3050	LYS	D2779	LEU	THR
A3594	V3530	S3488	E3394	S3191	L3051	L2986	ALA	L2780	GLY	LEU
E3595	K3459	K3459	E3395	K3192	S3253	L3052	ARG	P2781	PRO	THR
L3596	P3532	E3460	A3401	L3193	L3053	L3053	ARG	D2782	LEU	GLN
A3597	F3533	A3461	ALA	F3194	D3118	Q3054	L2916	L2783	GLY	THR
L3534	I3534	R3462	GLN	E3195	L3120	G3055	D2919	Q2784	ASP	ALA
L3463	L3535	R3463	PRO	R3196	L3121	E3056	V2920	L2785	GLU	ASP
K3464	S3536	K3464	TRP	L3197	H3122	A3057	L2921	Q2786	VAL	GLY
R3467	S3537	R3467	SER	THR	K3123	D3058	R2922	H2787	ASP	ARG
I3471	E3538	R3468	PRO	PRO	S3124	Q3059	V2923	V2855	ASN	SER
L3472	S3539	L3469	CYS	PRO	R3125	A2972	W2924	S2788	LYS	SER
E3478	T3540	L3470	GLY	PRO	L3126	L3062	E2925	L2791	VAL	PHE
T3479	L3410	L3471	PRO	GLU	L3127	L3063	L2926	T2792	LYS	ASP
L3480	L3411	L3472	PRO	GLU	F3128	F3064	D3000	P2793	TRP	PHE
S3481	A3407	L3473	ALA	ASP	L3129	F3065	L2929	Q2794	GLY	THR
L3482	G3408	L3474	ALA	ASN	L3130	D3066	Y2930	Q2795	ALA	THR
K3483	L3412	L3475	ALA	VAL	S3131	K3067	Y2931	Q2796	ALA	THR
T3484	A3413	L3476	ALA	ASP	Q3133	K3068	L2933	V2797	GLY	GLY
K3485	Y3413	L3477	GLN	ASP	L3135	H3070	E2935	A2798	SER	SER
T3415	M3414	L3478	ASP	GLN	R3136	G3071	Y2936	L2726	ASP	ASP
T3416	L3415	L3479	GLY	GLY	E3072	E3072	V2937	R2727	PRO	PRO
S3489	A3338	L3480	ASP	ASP	L3138	L3073	L2938	L2728	LEU	LEU
C3492	D3354	L3481	PRO	D3226	Q3139	Q3074	L2939	A2805	VAL	VAL
K3493	K3355	L3482	PRO	F3189	Q3140	K3075	L2942	K2806	ASP	ASP
R3494	R3356	L3483	PRO	S3228	E3140	K3076	L2943	Q2807	HIS	HIS
F3495	A3357	L3484	ASP	I3227	F3141	C3014	E2946	L2808	THR	THR
F3496	R3358	L3485	ASP	L3230	R3142	S3018	Y2947	F2809	SER	SER
S3497	R3359	L3486	WET	M3166	I3145	L3018	T2949	S2810	PRO	PRO
L3498	L3360	L3487	GLU	R3167	S3146	L3019	K2950	S2811	SER	SER
S3500	L3362	L3488	VAL	R3168	K3147	Y3082	L2953	L2812	SER	SER
H3501	S3363	L3489	GLN	Q3148	Q3148	S3083	A2956	Q2815	ASP	ASP
K3502	G3364	L3490	GLU	G3149	E3085	PRO	A2957	L2816	LEU	LEU
V3503	SER	L3491	GLU	M3150	L3086	PRO	E2960	L2817	PHE	PHE
L3505	SER	L3492	L3161	L3161	L3087	ASP	L2961	K2818	ALA	ALA
I3506	SER	L3493	W3164	W3164	L3088	LEU	L2962	E2819	HIS	HIS
D3507	ILE	L3494	T3165	T3165	L3089	ASN	A2963	W2820	LYS	LYS
K3508	ASP	L3495	N3166	N3166	Y3090	K3029	D2964	A2749	ARG	ARG
A3574	ALA	L3496	R3167	R3167	L3091	I3030	L2965	E2750	GLY	GLY
L3576	GLU	L3497	Y3166	Y3166	Q3093	W3031	S2966	R2753	ARG	ARG
D3576	LEU	L3498	Q3095	Q3095	L3094	S3032	E2967	E2754	LEU	LEU
R3577	GLN	L3499	D3096	D3096	L3092	F3034	A2968	E2755	GLN	GLN
L3578	GLN	L3500	D3170	D3170	L3093	F3035	L2969	T2757	ARG	ARG
S3579	ASP	L3501	A3171	A3171	R3098	Y3036	K2970	K2756	ALA	ALA
N3580	ALA	L3502	M3176	M3176	A3099	Q3037	Y2971	W2830	PRO	PRO
P3581	ALA	L3503	R3177	R3177	A3099	E3038	Y2972	L2831	LEU	LEU
E3582	GLN	L3504	I3178	I3178	K3100	T3039	D2973	K2824	LYS	LYS
L3583	VAL	L3505	K3240	K3240	Y3101	Y3040	E2974	T2825	SER	SER
L3584	V3447	L3506	S3305	S3305	T3102	L3041	A2975	Q2765	VAL	VAL
F3585	R3384	L3507	K3241	K3241	I3103	P3042	L2976	Q2768	GLY	GLY
L3521	L3385	L3508	M3242	M3242	I3104	P3043	W2977	V2769	PRO	PRO
K3449	S3386	L3509	L3307	L3307	I3182	M3044	K2978	Q2838	ASP	ASP
D3523	E3387	L3510	D3308	D3308	I3183	M3044	K2978	D2839	PHE	PHE
R3524	E3388	L3511	E3309	E3309	T3184	I3045	Q2979	R2773	GLY	GLY
N3310	V3389	L3512	S3245	S3245	R3186	R3046	D2980	R2773	PHE	PHE
L3454	L3454	L3513	N3311	N3311	C3187	S3047	W2981	R2776	VAL	VAL

S3657	D3658	F3659	N3660	D3661	I3662	T3663	N3664	K3665	L3666	L3667	L3668	K3669	H3670	D3673	P3676	P3677	G3678	L3679	L3680	K3681	E3682	C3683	S3684	F3685	S3688	K3691	L3695	L3699	P3702	G3703	Q3704	Y3705	E3714	N3717	R3718	I3719	A3720	T3727	N3728	K3729	A3730	S3731	L3732	R3733	R3734	F3735	K3736	R3737	I3738						
I3739	I3740	R3741	G3742	H3743	H3748	F3749	F3750	L3751	L3752	K3753	G3754	G3755	E3756	D3757	L3758	R3759	P3760	D3761	Q3762	E3765	Q3766	L3767	N3772	G3773	I3774	L3775	A3776	Q3777	L3778	S3779	A3780	C3781	S3782	Q3783	R3784	A3785	L3786	Q3787	L3788	R3789	T3790	Y3791	S3792	V3793	V3794	P3795	M3796	R3799	L3800	G3801	L3802	I3803	F3804	W3805	L3806
E3807	N3808	T3809	V3810	T3811	L3812	K3813	D3814	L3815	L3816	T3819	M3820	A3826	S3830	D3831	P3832	G3833	P3835	P3836	C3837	E3838	Y3839	L3843	THR	LYS	MET	SER	GLY	LYS	HIS	D3851	A3854	K3860	E3866	T3867	V3868	T3869	S3870	F3871	R3872	K3873	R3874	V3878	P3879	A3880	D3881	L3882	R3885	A3886	F3887	V3888					
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T3964	R3965	Q3966	F3967	L3970	K3971	L3972	P3973	K3974	K3975	E3976	T3977	G3978	L3979	M3980	Y3981	L3982	I3983	K3984	V3985	L3986	A3987	R3988	L3989	A3990	F3991	R3992	S3993	D3994	P3995	G3996	L3997	T3999	N4000	M4001	M4002	D4003	K4007	S4010	M4015	PHE	GLU	GLN	LYS	MET	LEU	LYS	LYS	GLY	GLY	SER	TRP	ILE	GLN	K4105	
ILE	ASN	VAL	ALA	GLU	LYS	ASN	W4038	Q4042	P4114	N4115	I4116	L4117	R4049	K4050	A4054	N4055	P4056	A4057	V4058	T4060	C4061	D4062	L4065	L4066	G4067	A4073	D4076	Y4077	A4079	R4082	G4083	S4084	K4085	D4086	H4087	N4088	R4089	A4091	P4094	E4095	S4097	L4098	S4099	E4100	F4101	T4102	Q4103	V4104	K4105						
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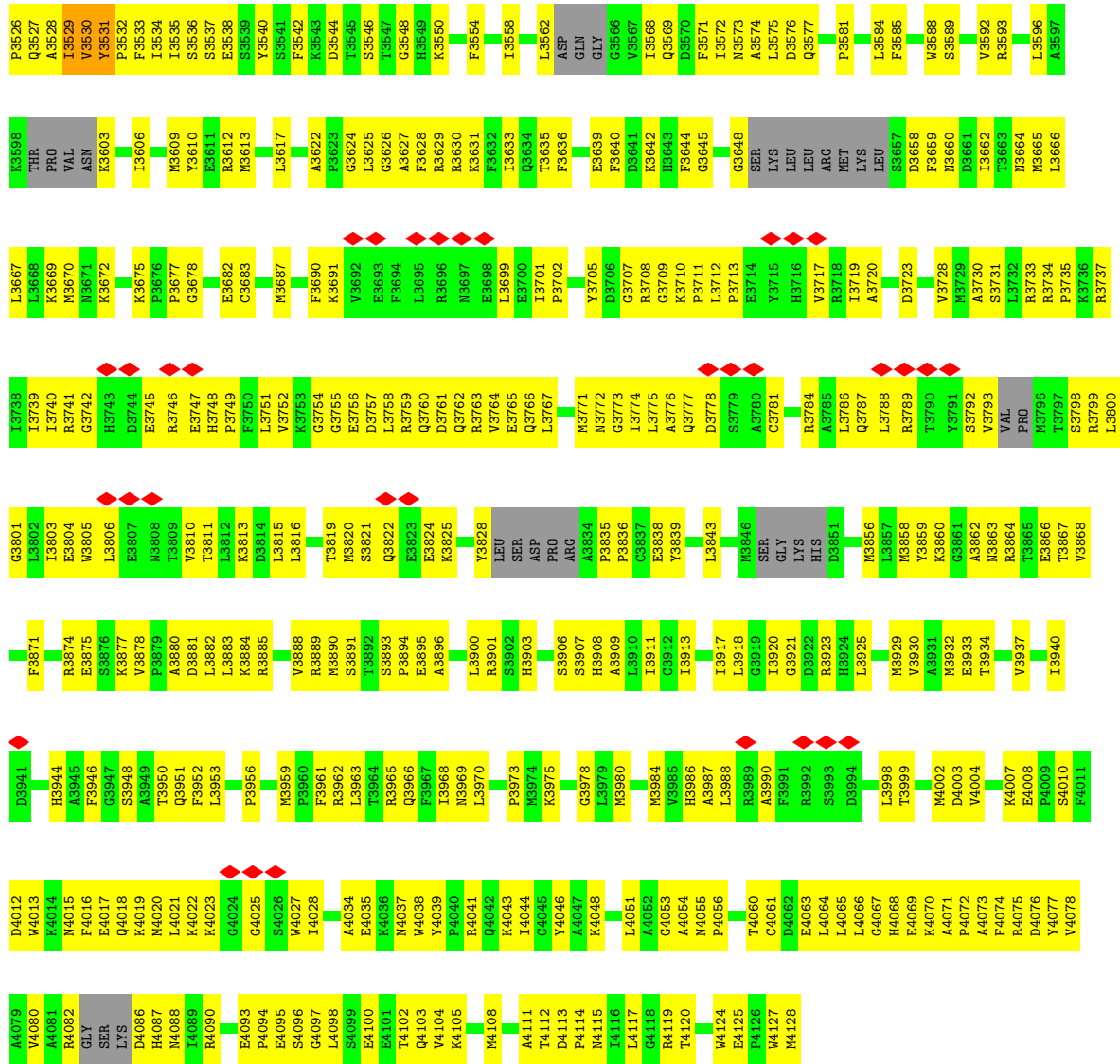
Molecule 4: DNA-dependent protein kinase catalytic subunit



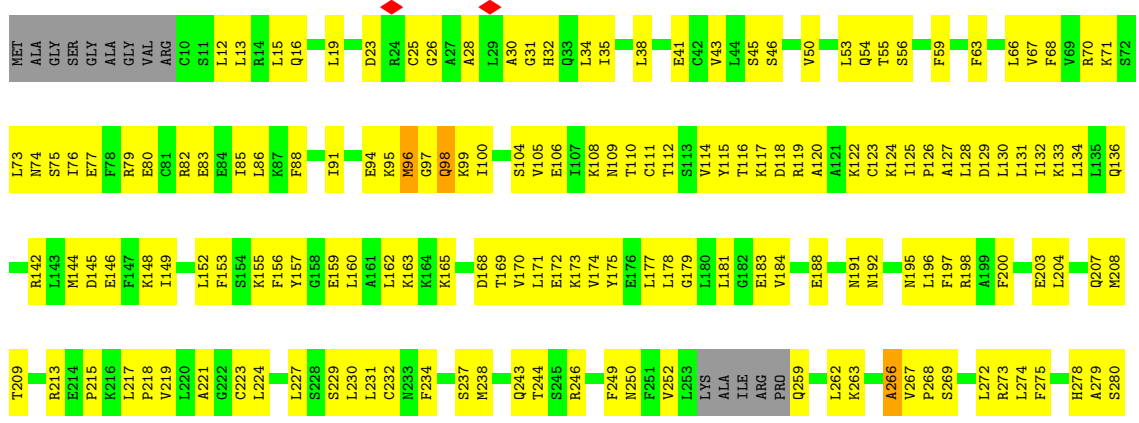
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Q856	THR	VAL	GLY	GLU	GLM	GLU	ASN	GLY	ASP	ASP	GLU	ALA	PRO	VAL	THR	S806	D807	P808	A809	A610	N611	L612	D619	F620	S621	A622	F623	I624	V627	F628	C630	R631	E632	I633	L634	K637	Q638	A639	F642	E643	W644	V645	V646	F649	S650	S651	E652	I653	I654					
L655	Q656	R659	L660	P661	L662	S663	S664	G665	F666	Y667	K668	L669	L670	S671	I672	R675	N676	K678	K679	F683	P688	L688	SER	LEU	LYS	HIS	SER	PRO	D697	P698	E699	K700	Y701	I633	R782	H783	V784	M785	Q786	P787	Y788	M718	K719	Q720	W721	K722	D723	E724	L725	L726	S727	A728	C729	
L730	T731	L733	L734	S735	L736	P737	I741	V745	R746	K747	V748	V749	L752	Q753	M754	A755	K678	T763	P764	A766	E767	V768	G769	L770	N771	A772	L773	E774	E775	W776	I780	D781	R782	H783	V784	M785	Q786	P787	Y788	K790	D791	L792	L793	P794	C795	L796	D797	G798	K801					
T802	S803	A804	LEU	SER	ASP	GLU	THR	LYS	ASN	GLY	VAL	SER	ALA	LEU	SER	ARG	ALA	ALA	GLN	LYS	PHE	ASN	LYS	VAL	VAL	LEU	LYS	HIS	LEU	LYS	THR	LYS	ASN	A845	L846	S847	T851	R852	L853	R854	V855	V856	O857	M858	L859	L862	G863	G864						
Q865	I866	K868	N869	L870	L871	T872	V873	T874	S875	S876	D877	E878	N879	N880	R881	Y882	Y883	V884	A885	M886	D887	R888	E889	K890	R891	L892	S893	F894	A895	K902	P903	V904	L907	L911	P912	R913	V914	T915	E916	L917	A918	L919	T920	A921	S922	R923	R924	Q925	T926					
A930	C931	E932	L933	L934	H935	S936	R937	V938	F1001	N939	F940	N941	L942	G943	K944	T946	GLN	PRO	GLY	GLY	GLN	GLY	ALA	PRO	P957	N958	V959	Q960	L961	Y962	K964	R1031	E1035	F1036	L1037	K1038	L1039	S1040	I1041	Q1043	I1044	T1045	Q1048	P1053	N1054	Q982	L1056	K1057	S1058	L1059	L987	K1061	R1062	N989
Q990	L991	I992	H993	V994	F995	N998	K999	K1000	F1073	N939	E1002	L1009	A1012	I1013	L1014	D1015	G1016	I1017	I1018	D1019	P1020	V1021	D1022	T1024	L1025	R1026	F1028	G1030	R1031	E1035	F1036	L1037	K1038	L1039	S1040	I1041	Q1043	I1044	T1045	Q1048	P1053	N1054	Q982	L1056	K1057	S1058	L1059	L987	K1061	R1062	N989			
L1063	Y1064	S1065	L1068	P1070	M1071	A1072	F1073	K1074	L1075	L1076	G1077	A1081	F1082	N1083	N1084	I1085	P1154	R1087	G1156	F1157	L1163	C1164	L1165	L1168	V1169	K1170	W1171	H1175	C1176	G1177	R1178	P1179	Q1180	T1181	E1182	C1183	R1184	S1187	F1194	V1195	P1196	L1197	L1198	P1199	G1200	Q1280	L1281	L1282	G1283	T1284	E1285	S1288		
L1134	C1135	I1136	I1137	E1138	E1139	K1140	H1141	H1142	S1143	S1144	L1145	N1146	K1147	A1148	K1149	L1150	R1151	R1152	L1153	R1155	G1156	F1157	L1163	C1164	L1165	L1168	V1169	K1170	W1171	H1175	C1176	G1177	R1178	P1179	Q1180	T1181	E1182	C1183	R1184	S1187	F1194	V1195	P1196	L1197	L1198	P1199	G1200	Q1280	L1281	L1282	G1283	T1284	E1285	S1288
K1209	L1212	E1216	V1217	S1218	F1219	L1220	I1221	G1226	G1227	G1228	C1229	P1232	S1233	G1234	I1235	Q1238	P1239	L1242	Y1243	L1250	L1254	C1255	W1256	L1257	D1258	L1259	L1260	L1261	A1262	A1263	L1264	E1265	C1266	F1270	I1271	G1272	T1275	V1276	G1277	Q1280	L1281	L1282	G1283	T1284	E1285	S1288								
S1289	L1290	L1291	K1292	A1293	V1294	F1297	L1298	E1299	S1300	I1301	A1302	M1303	H1304	A1309	E1310	K1311	CYS	PHE	THR	GLY	ALA	ALA	GLY	ASN	ARG	THR	SER	P1324	Q1325	E1326	G1327	E1328	R1329	S1333	K1334	C1335	T1336	V1337	V1338	V1339	R1340	I1341	M1342	E1343	F1344	T1346	L1347	L1348	T1351	S1352	L1358	L1359		
K1360	K1361	D1362	L1363	G1364	T1366	H1367	L1368	M1369	R1370	L1371	L1372	V1373	Q1374	T1375	L1376	C1377	E1378	P1379	Q1389	V1390	V1391	M1392	A1393	H1394	L1395	P1396	D1397	V1398	C1399	V1400	M1401	L1402	M1403	K1404	A1405	L1406	K1407	Y1411	K1412	D1413	T1417	H1418	E1421	I1423	I1428	L1431	V1434	Y1437	G1438					

R2470	L2398	MET	H2091	TYR	Q1963	LEU	S1823	D1748	L1678	Q1611	R1527	Q1442
E2471	E2399	GLU	E2092	LEU	F1967	PRO	L1824	A1749	L1679	Q1614	L1528	L1448
Q2472	V2400	ARG	C2093	ALA	L1760	LYS	L1825	E1750	D1680	L1617	V1529	A1449
M2473	L2168	LYS	M2094	ASP	L1826	SER	T1826	E1751	D1681	K1618	S1530	A1450
N2474	L2169	ASN	A2095	THR	L1827	THR	L1827	L1752	K1682	L1619	A1536	V1451
N2475	L2255	ILE	L2255	THR	L1828	LYS	L1828	S1753	K1683	L1620	S1539	Y1452
L2476	L2256	LEU	T2098	LEU	L1829	P1971	L1829	Q1754	L1684	L1621	THR	L1464
L2477	F2257	SER	A2099	SER	H1830	L1975	H1830	M1757	D1686	I1622	THR	S1453
M2478	E2258	GLU	L2100	GLU	L1831	L1978	C1831	L1766	L1688	L1623	THR	ALA
V2479	K2259	ASN	L2101	GLU	S1832	F1978	S1832	E1760	H1687	L1624	ALA	A1454
L2480	F2260	MET	K2102	MET	L1833	E1979	L1833	L1763	L1688	Q1624	SER	C1455
L2481	SER	GLN	H2103	SER	D1834	F1900	D1834	E1764	K1689	H1625	LEU	K1456
L2482	GLY	PHE	M2104	GLN	L1835	HIS	L1835	L1763	G1690	H1626	GLY	O1457
L2483	LYS	ASP	H2105	PHE	L1836	D1983	L1836	E1764	Q1691	K1627	SER	L1458
Y2484	L2106	ASP	R2106	ASP	R1837	GLY	R1837	V1765	SER	K1628	SER	L1459
S2485	PRO	ILE	S2107	PHE	E1984	GLY	E1984	L1766	A1692	L1629	SER	H1460
P2486	ASN	ASN	L2108	THR	L1985	CYS	L1985	C1767	L1693	D1630	GLN	R1461
D2487	GLY	THR	GLY	THR	ARG	ARG	F1840	R1768	T1694	P1633	GLY	L1464
E2488	LYS	GLY	TYR	GLY	TYR	TYR	S1841	E1769	L1696	L1639	VAL	L1468
S2489	D2269	VAL	PRO	VAL	ASN	ASN	T1842	Q1770	L1697	E1640	ILE	L1468
E2490	M2270	GLN	GLN	GLN	PHE	GLY	I1843	Q1771	F1698	D1636	HIS	P1469
Q2491	L2189	GLN	L2189	GLN	L1844	PRO	L1844	Q1772	S1637	S1637	HIS	S1470
D2492	L2190	GLY	GLY	TYR	V1845	PRO	V1845	H1773	F1699	P1638	SER	Q1471
S2493	A2191	TYR	GLU	VAL	L1846	VAL	L1846	M1774	T1700	S1584	SER	S1472
O2494	T2192	GLY	GLU	VAL	D1847	VAL	D1847	E1775	G1704	L1639	VAL	T1473
E2495	L2193	ASP	ASP	VAL	L1848	GLU	L1848	E1775	G1704	E1640	ILE	D1474
E2496	L2194	SER	SER	GLU	L1849	GLU	L1849	F1778	L1707	T1641	ILE	D1474
E2497	L2194	VAL	VAL	VAL	D1849	VAL	D1849	Q1778	L1707	M1642	HIS	L1475
I2498	S2195	SER	VAL	SER	V1850	PRO	V1850	Q1779	E1708	M1643	SER	H1476
L2501	W2196	PRO	PRO	GLN	L1851	PRO	L1851	S1780	E1709	M1644	SER	H1477
V2502	L2199	ARG	ARG	ASP	C1919	MET	C1919	L1851	E1709	V1645	LEU	E1482
L2503	A2200	ASP	ASP	PRO	L1920	GLU	L1920	S1781	F1782	L1646	LEU	E1482
L2504	L2122	ARG	L2122	ARG	ARG	ARG	F1855	R1783	R1712	A1647	LEU	S1485
L2505	F2123	PRO	F2123	PRO	LYS	LYS	F1855	R1783	V1713	L1647	LEU	L1486
L2506	S2124	ALA	S2124	ALA	LYS	LYS	T1856	R1784	L1714	A1648	LEU	L1486
L2507	M2126	THR	M2126	THR	TYR	TYR	K1857	A1786	Q1715	L1648	LEU	L1486
L2510	L2129	PHE	L2129	PHE	ILE	GLY	E1860	G1789	L1717	K1651	GLN	Y1488
L2511	M2135	ARG	M2135	ARG	ILE	ASN	S1863	E1789	I1718	I1652	LEU	Y1488
E2512	V2138	ARG	V2138	ARG	ARG	ARG	T1862	T1793	H1721	L1653	LEU	P1493
L2513	P2139	GLU	P2139	GLU	LYS	LYS	F1863	Q1794	F1722	I1654	ASP	GLY
L2514	L2140	GLN	L2140	GLN	ALA	ALA	D1864	L1798	P1723	I1655	GLU	ASP
L2515	M2141	ASP	M2141	ASP	GLU	GLU	T1865	V1801	M1724	D1656	ARG	GLU
L2516	F2217	ASP	F2217	ASP	ARG	ARG	Q1866	Y1802	Q1725	S1657	GLN	GLN
L2517	L2219	PRO	L2219	PRO	ALA	ALA	I1867	Y1802	S1726	S1658	CYS	CYS
L2518	M2220	THR	M2220	THR	ALA	ALA	T1868	Y1802	R1727	F1661	LEU	LEU
E2519	K2221	VAL	K2221	VAL	ASN	ASN	K1869	E1803	Q1584	N1662	P1501	P1501
L2520	V2222	HIS	V2222	HIS	GLY	GLY	M1870	M1804	P1731	T1663	L1505	L1505
L2521	L2149	ASP	L2149	ASP	GLY	GLY	M1871	F1805	G1732	S1664	L1506	L1506
L2522	V2150	ASP	V2150	ASP	ASP	ASP	R1872	R1806	T1733	H1665	S1507	S1507
L2523	L2151	VAL	L2151	VAL	SER	SER	Y1873	K1807	R1734	G1666	V1593	V1593
E2524	E2154	LEU	E2154	LEU	ASP	ASP	K1875	V1801	F1736	F1668	L1601	L1510
L2525	V2156	GLU	V2156	GLU	PRO	PRO	L1876	M1804	N1737	F1669	P1602	P1602
L2526	F2157	LEU	F2157	LEU	SER	SER	L1877	R1816	E1670	E1670	Q1603	E1516
L2527	R2158	MET	R2158	MET	TYR	TYR	D1878	Q1817	D1741	V1671	S1604	S1604
L2528	L2241	SER	L2241	SER	ASN	ASN	M1880	F1819	C1742	F1672	F1605	F1549
L2529	C2244	LEU	C2244	LEU	GLU	GLU	Y1881	V1820	K1745	L1676	A1520	A1520
L2530	W2245	SER	W2245	SER	SER	SER	S1882	L1822	F1746	L1677	F1521	F1521
L2531	L2245	VAL	L2245	VAL	SER	SER	R1883	L1822	L1747	S1677	R1608	R1608

S3458	H3381	K3302	R3232	R3162	H3081	A2997	D2919	F2848	D2782	ARG	SER	LEU
H3459	F3382	R3233	S3239	I3163	Y3082	D3000	V2920	F2851	L2783	THR	SER	THR
E3460	Q3383	S3234	S3239	T3164	S3083	D3000	L2921	L2851	K2784	ASP	THR	PRO
R3461	H3384	L3306	C3234	T3165	S3083	N3003	R2922	K2785	L2785	LEU	ASP	MET
L3462	L3385	ASP	K3235	R3166	L3086	H3004	V2923	K2786	LEU	PRO	PRO	PHE
V3389	GLU	S3237	F3236	R3167	S0887	H3004	V2924	H2787	VAL	LEU	VAL	VAL
F3465	ASN	R3238	S3237	Y3168	L3088	S3010	E2925	S2788	LEU	VAL	ASP	GLU
E3394	ASN	K3239	R3238	D3170	L3089	S3010	L2926	S2789	ARG	ASP	THR	THR
GLU	V3312	M3240	M3240	A3171	Y3090	Y3013	L2927	D2860	ARG	HIS	GLN	GLN
ALA	S3313	K3241	K3241	A3171	L3091	C3014	L2928	I2861	ARG	THR	ALA	ALA
GLN	S3314	M3242	M3242	K3172	L3092	S3015	L2929	S2862	PHE	SER	SER	SER
PRO	Y3315	I3243	I3243	M3173	Q3093	S3015	Y2930	M2865	MET	PRO	GLN	GLN
PRO	L3316	D3244	D3244	D3174	R3098	S3018	R2931	A2866	ARG	ARG	SER	GLY
TRP	A3322	S3245	S3245	P3175	A3099	I3019	S2932	A2867	ASP	ASP	SER	THR
CYS	M3251	R3246	R3246	N3177	K3100	P3024	V2797	L2868	GLN	GLN	ASP	THR
GLY	M3251	L3247	L3247	L3178	Y3101	Y3024	A2798	L2869	LYS	LEU	LEU	LEU
PRO	L3254	A3255	A3255	M3179	Y3102	L3027	Y2936	S2870	LYS	LEU	LEU	ARG
ALA	A3255	M3256	M3256	D3180	I3103	L3027	D2937	L2871	PHE	LEU	ARG	THR
ALA	K3257	L3257	L3257	R3186	Q3104	W3031	V2938	A2873	ALA	ALA	ALA	GLN
G3408	L3258	A3257	A3257	F3189	G3106	P3034	R2940	A2874	HIS	HIS	HIS	GLU
V3409	M3259	L3259	L3259	L3190	I3107	F3035	R2941	A2875	TYR	LYS	LYS	GLY
Y3413	R3260	K3260	K3260	S3191	Q3108	Y3036	I2942	C2880	ALA	ARG	ARG	SER
M3414	E3261	E3261	E3261	K3192	Q3108	Q3037	F2943	C2880	ARG	ARG	GLY	LEU
T3415	L3262	L3262	L3262	Q3111	M3111	E3038	I2944	L2884	VAL	LEU	LEU	ALA
L3416	S3262	S3262	S3262	Q3112	Q3112	S2945	S2944	Q2886	ALA	ALA	GLN	ARG
A3417	E3265	E3265	E3265	M3113	M3113	Y3040	E2946	P2887	ALA	ARG	TRP	TRP
F3419	T3266	T3266	T3266	S3124	S3124	L3041	I2947	V2888	LYS	VAL	VAL	VAL
C3420	R3269	R3269	R3269	K3128	K3128	M3044	Q2948	G2889	LYS	ALA	ALA	ALA
D3422	D3270	D3270	D3270	V3132	V3132	I3045	L2952	L2816	ARG	ARG	LEU	GLY
Q3422	W3272	W3272	W3272	Q3133	Q3133	R3046	A2959	L2817	GLU	LYS	GLN	GLN
R3425	L3273	L3273	L3273	L3135	L3135	K3050	R2962	K2818	ILE	ILE	ILE	ILE
E3429	S3275	S3275	S3275	L3136	L3136	Q3054	S2963	E2820	ILE	ILE	ALA	ALA
ASN	Q3278	Q3278	Q3278	E3137	E3137	GLY	E2967	K2824	LYS	LYS	LYS	LYS
ALA	S3279	S3279	S3279	I3138	I3138	GLU	A2968	T2825	GLU	GLY	GLY	GLY
SER	Y3280	Y3280	Y3280	F3141	F3141	ALA	K2978	L2826	LEU	LEU	HIS	HIS
VAL	C3281	C3281	C3281	I3142	I3142	ASP	Q2979	S2827	LEU	MET	LYS	LYS
ILE	R3282	R3282	R3282	S3143	S3143	S3060	Q2971	E2827	LEU	ARG	ARG	ARG
ASP	L3283	L3283	L3283	S3146	S3146	L3061	L2976	E2828	LEU	GLN	GLN	GLN
ASP	S3284	S3284	S3284	S3146	S3146	I3065	V2977	K2829	LEU	ASP	ASP	ASP
ALA	H3285	H3285	H3285	K3147	K3147	D3066	K2978	N2830	LEU	GLY	GLY	GLY
GLU	S3288	S3288	S3288	N3150	N3150	M3069	D2980	N2831	LEU	ALA	ALA	ALA
L3445	R3289	R3289	R3289	L3151	L3151	H3070	V2981	D2821	ASP	ASP	ASP	ASP
V3446	M3290	M3290	M3290	S3152	S3152	G3071	F2839	V2770	VAL	VAL	VAL	VAL
E3448	Q3291	Q3291	Q3291	S3153	S3153	E3072	F2840	L2772	ASP	ASP	ASP	ASP
K3449	G3292	G3292	G3292	Q3154	Q3154	L3073	N2841	S2774	ASN	ASN	ASN	ASN
M3450	C3293	C3293	C3293	P3155	P3155	L3073	K2842	Y2775	LYS	LYS	LYS	LYS
L3454	V3297	V3297	V3297	P3156	P3156	A3076	F2843	H2776	VAL	VAL	VAL	VAL
K3455	L3298	L3298	L3298	L3157	L3157	I3077	L2844	G2778	GLY	GLY	GLY	GLY
Y3525	L3301	L3301	L3301	K3158	K3158	Y3079	N2845	D2779	ALA	ALA	ALA	ALA
				L3160	L3160	E3079	T2846	P2781	ALA	ALA	ALA	ALA
				L3161	L3161	L3090	T2847		GLY	GLY	GLY	GLY



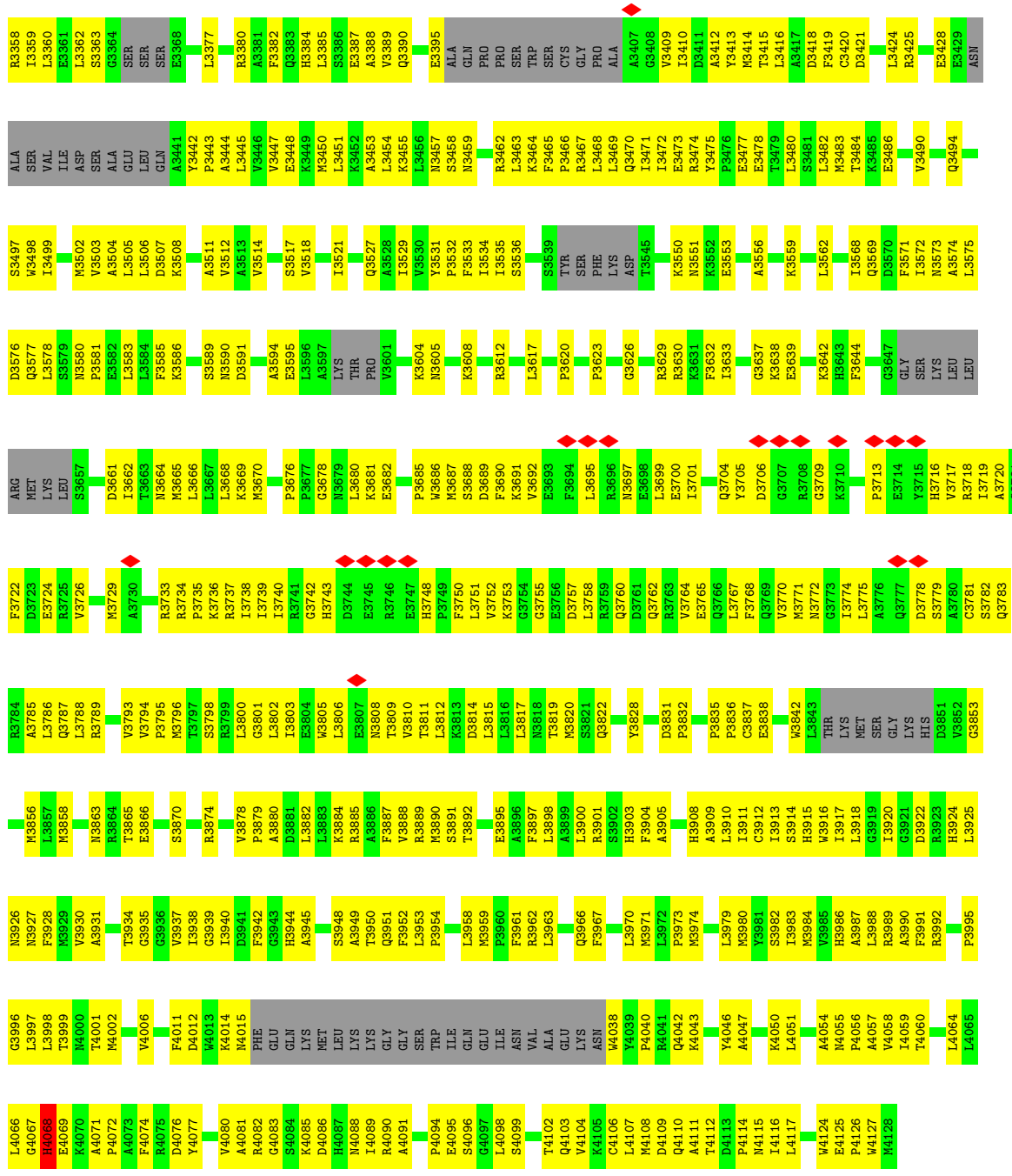
● Molecule 4: DNA-dependent protein kinase catalytic subunit



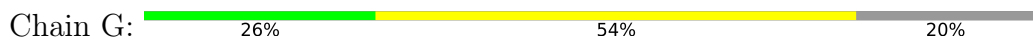


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Y2289	N2234	L2171	H2105	A1786	I1718	M1644	S1564	L1484	K1404	V1338
F2300	L2235	A2172	R2106	R1787	A1719	V1645	E1565	L1486	A1405	A1405
Q2301	E2236	G2173	S2107	R1788	A1720	V1646	T1566	L1487	L1406	R1340
A2302	L2237	S2174	L2108	G1789	P1723	A1647	T1567	L1488	K1407	I1341
L2303	I2238	E2175	GLY	T1793	M1724	L1648	M1568	K1489	M1408	M1342
V2304	L2241	N2176	PRO	T1794	M1725	L1649	T1569	G1490	S1409	E1343
N2305	ASN	ASN	PRO	V1795	Q1726	A1650	E1570	L1491	P1410	F1344
M2306	GLN	THR	GLN	R1796	S1727	K1651	M1574	A1492	Y1411	T1345
S2307	GLY	VAL	GLY	L1797	R1728	K1652	M1574	PRO	K1412	T1346
S2308	GLU	PHE	GLN	L1798	E1729	L1653	L1575	GLY	D1413	T1347
F2309	ASP	PRO	ASN	E1798	F1730	D1576	D1576	ASP	L1414	L1348
V2310	GLU	VAL	ALA	L1799	P1731	I1655	L1577	GLU	L1415	L1349
V2311	SER	GLU	GLY	S1800	M1732	D1656	M1583	GLU	H1350	H1350
V2315	VAL	VAL	GLU	T1801	G1733	A1578	A1578	ARG	H1418	T1351
Y2316	PRO	SER	ASN	Y1802	T1732	V1579	V1579	ARG	L1419	L1356
A2319	R2120	GLN	GLN	F1803	G1734	M1662	M1580	CYS	R1420	M1357
A2320	D2121	PRO	LEU	M1804	R1735	E1581	E1581	LEU	L1423	K1357
A2321	L2122	ASP	LEU	F1805	F1736	H1665	L1582	PRO	I1423	L1358
E2322	F2123	PRO	GLU	R1806	M1737	F1668	Q1584	S1502	I1424	L1359
V2322	S2124	ARG	ARG	LYS	M1743	V1671	S1586	D1504	A1425	K1361
F2322	M2125	ALA	ASP	K1869	F1746	F1672	S1586	D1504	L1431	D1362
E2325	M2126	ALA	LYS	K1870	D1748	T1673	V1587	C1507	L1436	L1363
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T2197	L2133	PHE	GLU	Y1874	E1750	L1679	L1597	L1513	D1440	H1367
G2198	G2134	ARG	ILE	K1875	E1751	L1679	L1597	L1513	D1440	H1367
L2199	M2135	ARG	ARG	L1876	L1752	L1679	L1597	L1513	D1440	H1367
A2200	M2135	ARG	LYS	L1877	L1752	L1679	L1597	L1513	D1440	H1367
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S2267	M2135	ARG	LYS	L1877	L1752	L1679	L1597	L1513	D1440	H1367
P2202	V2138	GLU	GLU	D1878	S1753	K1683	L1601	E1516	V1443	M1370
L2139	F2139	GLN	ALA	M1879	Q1754	L1684	D1602	F1519	R1444	V1371
L2140	L2140	GLN	ALA	M1879	Q1754	L1684	D1602	F1519	R1444	V1371
M2141	M2141	ASP	GLU	F1880	S1755	D1685	Q1603	L1528	R1445	L1372
R2143	R2143	PRO	ALA	S1881	M1757	H1687	F1605	L1528	R1445	L1372
L2146	L2146	VAL	ASN	R1882	L1758	K1688	R1606	L1528	R1445	L1372
A2147	L2146	ASP	GLY	F1885	L1761	V1683	E1607	L1530	L1448	Q1374
K2148	K2148	ASP	ASP	LYS	M1762	V1683	Q1611	L1531	L1448	Q1374
L2149	L2149	VAL	ASP	ASP	T1763	L1696	K1612	L1538	L1463	V1389
V2150	V2150	LEU	GLY	ASP	E1764	L1696	H1613	L1538	L1463	V1389
L2151	L2151	GLU	VAL	VAL	V1765	P1697	Q1614	L1538	L1463	V1389
N2152	N2152	LEU	HIS	HIS	L1766	F1698	G1615	L1540	L1468	M1392
T2153	T2153	LEU	ALA	ALA	C1767	F1699	L1616	ALA	H1458	M1385
E2155	E2155	MET	LYS	LYS	R1768	THR	A1619	SER	H1459	M1386
F2157	F2157	SER	GLU	GLU	E1769	LEU	A1619	LEU	L1463	V1389
R2158	R2158	THR	GLY	L1832	Q1770	LEU	T1622	GLY	I1467	Q1391
F2159	F2159	TYR	ASN	L1833	H1772	THR	L1623	SER	I1467	Q1391
Y2160	Y2160	LEU	VAL	L1836	V1773	GLY	Q1624	GLN	L1468	M1392
A2161	A2161	ALA	PHE	L1837	M1774	GLY	H1625	SER	Q1471	A1393
W2164	W2164	PRO	VAL	E1838	E1775	LEU	W1626	SER	Q1471	A1393
L2165	L2165	GLU	GLU	F1839	F1778	E1708	V1550	GLY	D1474	L1395
S2166	S2166	ASP	HIS	F1840	F1778	E1709	V1550	SER	L1395	L1395
P2167	P2167	THR	GLY	S1841	V1779	L1710	H1552	GLY	P1396	P1396
L2168	L2168	LEU	SER	T1842	S1780	R1711	W1632	GLY	D1397	P1396
L2169	L2169	LEU	THR	V1844	S1781	R1711	W1632	SER	H1476	P1396
R2232	R2232	GLU	GLU	V1845	F1782	E1715	K1635	GLY	H1477	C1399
					R1783	F1559	D1636	SER	G1480	V1400
					R1784	Q1716	S1637	GLU	T1481	L1402



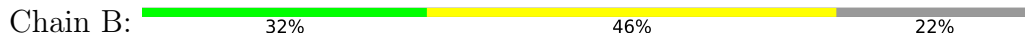


● Molecule 5: X-ray repair cross-complementing protein 6

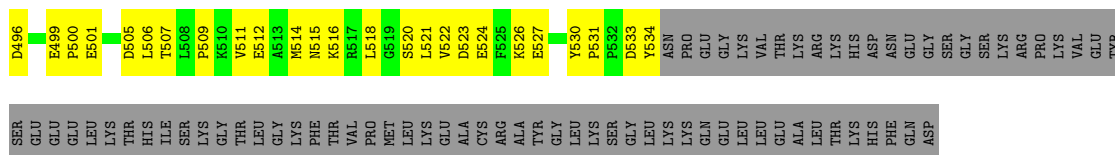


K129	L198	D266	L337	T401	R470	ASN	PHE
R130	F199	I267	K338	P402	F471	GLU	GLN
F131	L200	V269	R339	R403	Y472	GLY	ASP
Q132	D201	I268	R340	R404	Y473	SER	
D133	L202	S270	D341	M405	R474	GLY	
M134	M203	S271	D342	I406	S475	SER	
M135	H204	G272	P343	P407	D476	LYS	
G136	L205	I273	G344	P408	S477	ARG	
H137	K207	K274	G345	F409	F478	PRO	
G138	S139	L275	M346	F410	M480	LYS	
D140	L276	M276	M347	V411	N481	VAL	
Y141	L277	L277	M348	A412	F482	GLY	
S142	Y141	Q278	G349	L413	L483	TYR	
L143	I213	L281	F350	V414	Q484	SER	
S144	S214	K282	K351	P415	Q485	GLU	
E145	L143	P283	P352	E416	H486	GLU	
E146	E145	P283	L353	E417	F487	GLU	
V146	E146	R218	V354	E418	R488	LEU	
L147	V146	Y218	L355	E419	M489	LYS	
M148	M148	S222	L356	Q423	L490	THR	
V149	I148	I148	K357	K424	L493	HIS	
C150	ALA	I148	K357	I425	L493	ILE	
A151	GLU	ALA	H360	I426	L493	SER	
M152	ASP	ASP	Y361	Q426	M498	LYS	
L153	GLY	GLY	L362	V427	E499	GLY	
F154	ASP	ASP	R363	F428	P500	THR	
S156	LEU	ARG	P364	P429	P500	LEU	
D156	ARG	ARG	S365	P430	D505	GLY	
V157	VAL	VAL	F366	G431	D505	LYS	
	HIS	HIS	F367	F432	E512	PHE	
	PHE	PHE	K299	Q433	E513	LYS	
	GLU	GLU	T300	L434	M514	VAL	
	GLU	GLU	R301	V435	M514	PRO	
	GLU	GLU	E371	M515	M515	ALA	
	SER	SER	E372	K516	L437	MET	
	S237	K238	S373	R517	F437	LEU	
	K239	L239	S373	L518	L437	LYS	
	L239	L239	V375	L518	A440	GLY	
	E240	E240	I376	L518	D441	ALA	
	D241	D241	G377	D523	D442	CYS	
	L242	L242	S378	E524	K443	ARG	
	L243	L243	S379	F525	R444	ALA	
	K244	K244	T380	K526	R445	TYR	
	K245	K245	L381	E527	M446	GLY	
	R247	R247	F382	L528	M453	LEU	
	K249	K249	S383	P532	A454	LYS	
	R254	R254	A384	Y534	E457	SER	
	A255	A255	L385	ASN	Q458	GLN	
	L256	L256	L386	PRO	L387	GLY	
	S257	S257	K388	GLY	V459	ASP	
	R258	R258	C389	GLU	G480	GLY	
	G191	G191	K392	K461	K461	GLY	
	L259	L259	L328	LYS	LYS	LEU	
	K260	K260	E393	VAL	VAL	LEU	
	D192	D192	G330	THR	THR	GLY	
	L193	L193	V394	LYS	LYS	ALA	
	R194	R194	L261	ARG	ARG	GLY	
	K262	K262	E333	LYS	LYS	LEU	
	L263	L263	T394	THR	THR	THR	
	T196	T196	E335	HIS	HIS	HIS	
	G197	G197	E336	ASP	ASP	ASP	
			E336	L469	L469		

• Molecule 5: X-ray repair cross-complementing protein 6

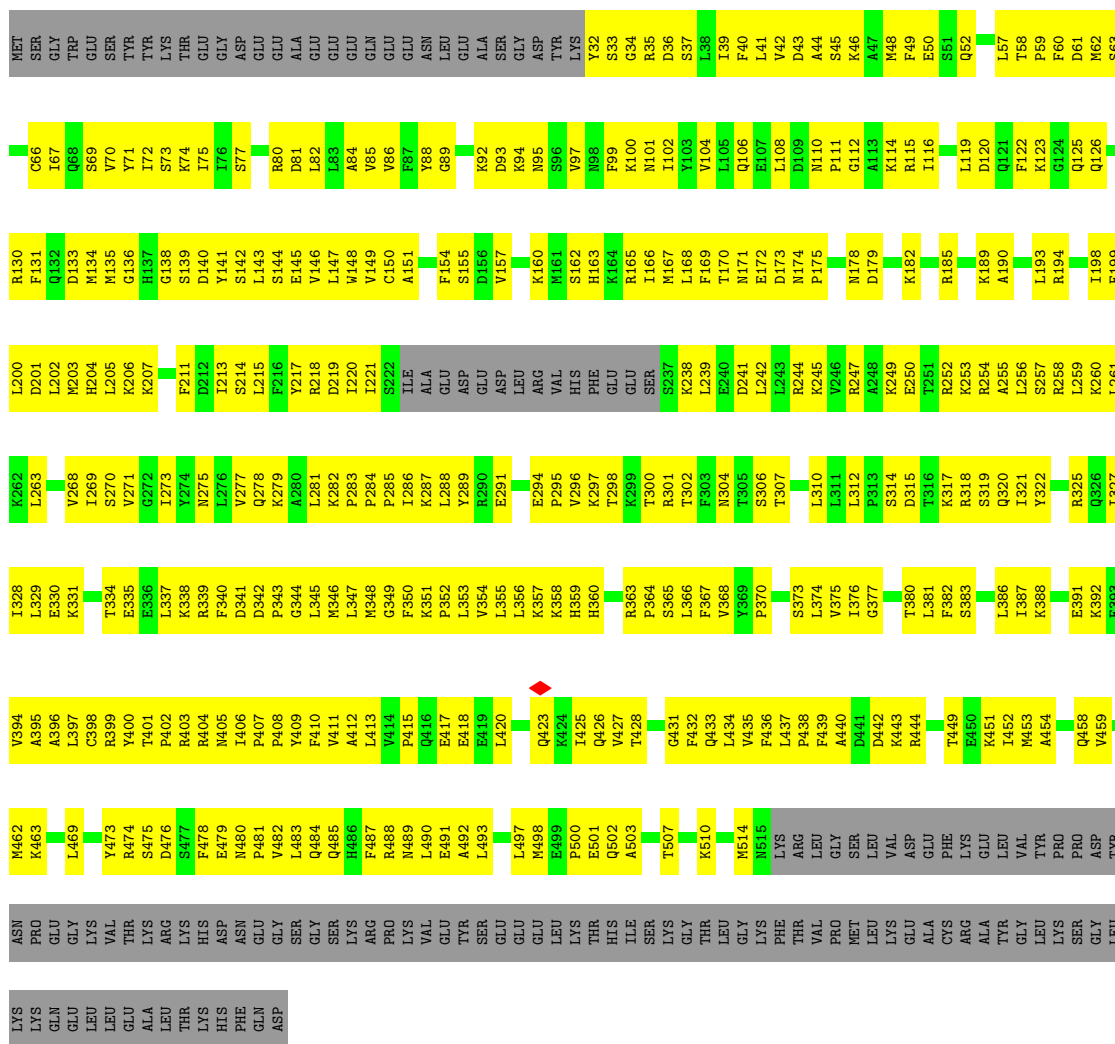


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Q423	K358	R290	R290	L147	L147	SER	GLN
K424	H359	N293	N293	W148	W148	GLY	ASP
I425	H359	N293	N293	N152	N152	TRP	
Q426	H360	E294	E294	I156	I156	GLY	
V427	Y361	P295	P295	S155	S155	GLU	
T428	L362	V296	V296	D156	D156	SER	
P429	R363	K297	K297	V157	V157	TYR	
P430	P364	T298	T298	Q158	Q158	TYR	
Q433	L366	K299	K299	F159	F159	LYS	
L434	F367	T300	T300	K160	K160	THR	
V435	V368	R301	R301	M161	M161	GLY	
F436	H369	T302	T302	S162	S162	ASP	
L437	Y369	F303	F303	H163	H163	GLY	
P438	E370	N304	N304	K164	K164	GLU	
F439	E372	T305	T305	R165	R165	GLU	
A440	S373	S306	S306	I166	I166	ALA	
D441	S373	G308	G308	M167	M167	GLU	
D442	V375	G309	G309	L168	L168	GLY	
K443	I376	L310	L310	F169	F169	GLN	
R444	G377	L311	L311	T170	T170	GLY	
K445	S378	L312	L312	E172	E172	ASN	
M446	L381	P313	P313	D173	D173	LEU	
	L381	S314	S314	N174	N174	GLY	
	F382	D315	D315	P175	P175	ALA	
	I387	T316	T316	M101	M101	SER	
	K388	R318	R318	I102	I102	GLY	
	C389	S319	S319	A103	A103	GLY	
	K392	Q320	Q320	V104	V104	ASP	
	E393	I321	I321	L105	L105	TYR	
	V394	R325	R325	Q106	Q106	THR	
	A395	Q326	Q326	E107	E107	VAL	
	A396	I327	I327	L108	L108	PRO	
	L397	K328	K328	P111	P111	MET	
	C398	L329	L329	G112	G112	LEU	
	G460	E330	E330	L119	L119	ALA	
	M462	R331	R331	D120	D120	CYS	
	K463	E332	E332	A44	A44	ARG	
	K468	I333	I333	S45	S45	ALA	
	L469	T334	T334	K123	K123	ALA	
	R470	E335	E335	A47	A47	TYR	
	Y473	E336	E336	M48	M48	GLY	
	R474	L337	L337	F49	F49	LEU	
	S475	F340	F340	E50	E50	LYS	
	D476	D341	D341	Q128	Q128	SER	
	S477	H204	H204	H204	H204	GLN	
	F478	L205	L205	K129	K129	GLY	
	P481	K206	K206	R130	R130	SER	
	Q485	LYS	LYS	F131	F131	GLU	
	R488	PRO	PRO	G138	G138	ASP	
	N489	GLY	GLY	Y141	Y141	GLY	
	L490	L345	L345	F211	F211	L57	
	E491	M348	M348	T58	T58	T58	
	A492	Q416	Q416	P59	P59	F60	
	L493	E417	E417	L143	L143	L143	
		E418	E418	S144	S144	S144	
		E419	E419	E145	E145	E145	
		L420	L420	K287	K287	K287	
		D421	D421	L288	L288	L288	



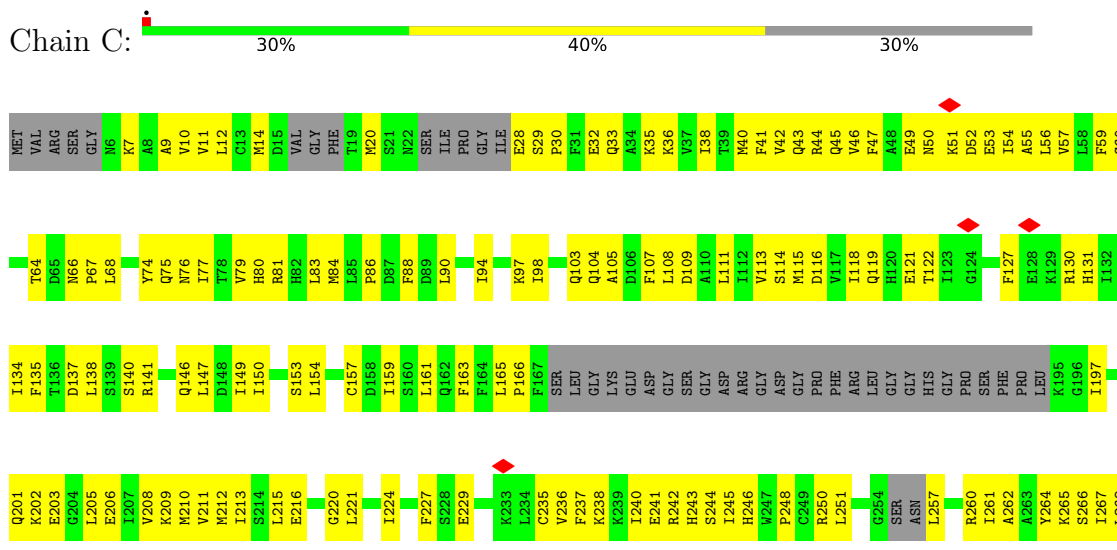
### Molecule 5: X-ray repair cross-complementing protein 6

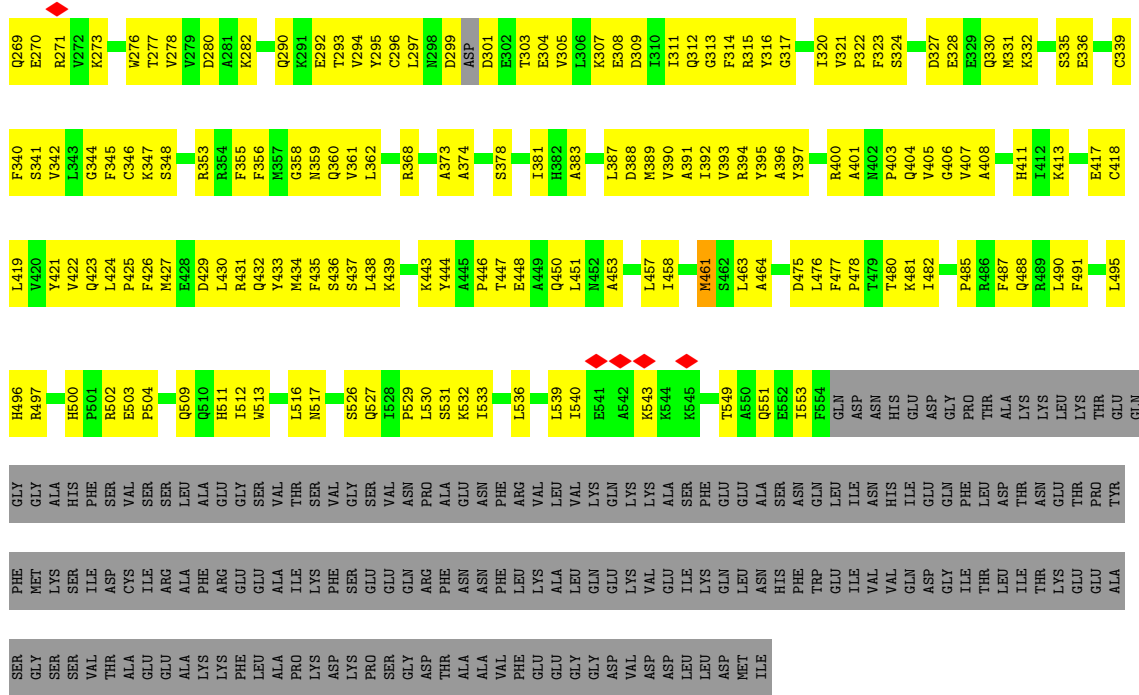
Chain T:



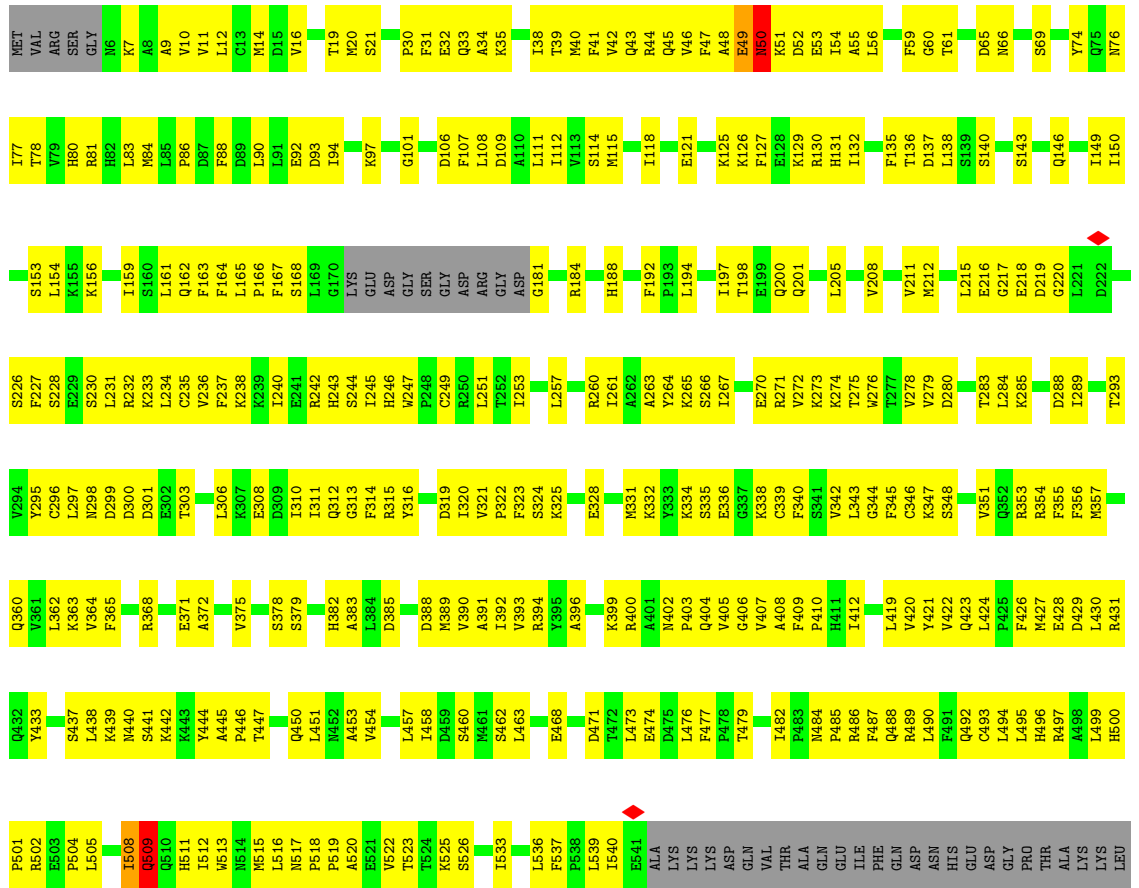
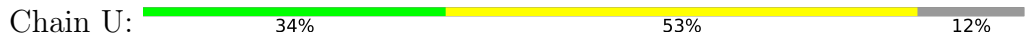
L147	D148	I149	I150	I151	K156	I159	S160	Q162	F163	F164	L165	P166	F167	S168	L169	G170	LYS	GLU	ASP	GLY	ARG	GLY	G181	P182	F183	R184	L185	G186	G187	H188	G189	F192	P193	L194	K195	G196	I197	E198	E199	Q200	K201	K202	E203	G204	L205	E206	E207	I207	V208	K209	M210	K211	T212	M215	E218	D219	G220	L221	D222	Y225	S226	F227	S228	E229	K230	L231	R232	K233	L234	C235	V236	F237	K238	K239	I240	E241	R242	H243	I245	H246	W247	P248	R250	G187	L251	T252	L253	N256	L257	S258	L259	R260	I261	A262	A263	Y264	K265	S266	L267	L268	Q269	L205	K334	E270	R271	V272	K273	K274	M210	C339	F340	S341	V342	L343	G344	F345	K346	K347	S348	Q352	R353	R354	F355	F356	M357	G358	N359	G360	V361	L362	K363	V364	F365	M365	L366	E367	A368	E369	R368	D370	A373	A374	V375	A376	L377	S378	S379	L380	I381	H382	A383	L384	L387	D388	M389	F390	A391	V393	R394	Y395	A396	Y397	Y398	M401	K399	R400	A401	N402	P403	Q404	V405	V406	A407	A408	F409	P410	H411	L412	H413	H414	M415	Y416	E417	C418	L419	V420	Y421	V422	Q423	L424	K425	V426	F427	L428	L429	H429	A430	R431	Q432	Y433	M434	S437	K438	L439	L440	S441	Y444	A445	P446	T447	Q450	L451	M452	A453	V454	D455	A456	L457	F458	D459	S460	M461	S462	Q527	L463	P529	A464	L530	K466	K532	I533	K534	T535	L536	F537	E538	L539	F540	E541	ALA	LYS	LYS	LYS	ASP	GLN	VAL	THR	ALA	GLN	GLU	ILE	PHE	GLN	GLN	ASP	ASN	HIS	GLU	ASP	H500	GLY	PRO	THR	ALA	GLY	GLN	GLY	ALA	HIS	PHE	VAL	SER	SER	SER	LEU	ALA	GLU	GLY	GLY	VAL	THR	SER	VAL	GLY	SER	F658	R593	P594	A595	E596	N597	F598	R599	V600	L601	G603	K604	K605	R606	A607	G608	E609	F609	S613	L616	L617	N618	H619	L620	E621	G622	F623	L624	D625	T626	M627	G628	T629	P630	Y631	F632	M633	R634	L636	I639	R640	E644	E645	A646	L647	K648	E651	E652	ALA	ALA	VAL	PHE	GLU	GLU	GLY	F658	K660	A661	L662	P663	E664	K665	V666	E667	Q670	H673	F674	V675	E676	L677	V678	L679	Q680	D681	T686	K688	E689	A691	G693	S694	V696	E699	A701	K702	F704	L705	A706	F707	K708	LYS	PRO	SER	SER	GLY	ASP	THR	ALA	ALA	ALA	VAL	ALA	VAL	PHE	GLU	GLU	GLY	F658	M589	K590	L591	L592	L593	L594	L595	L596	L597	L598	L599	G600
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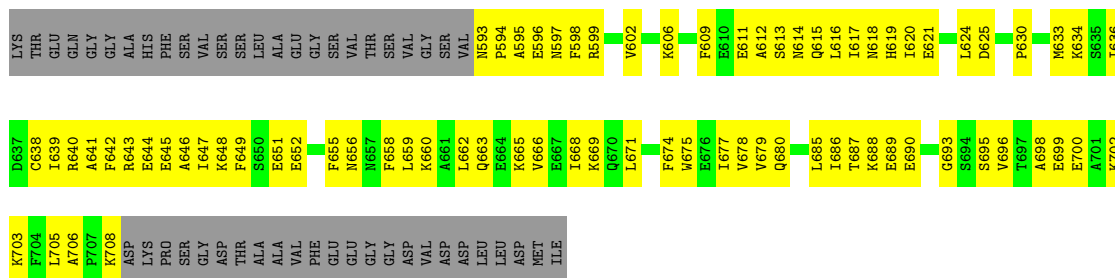
• Molecule 6: X-ray repair cross-complementing protein 5



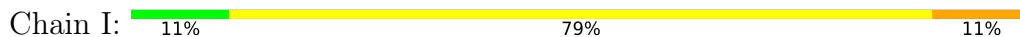


• Molecule 6: X-ray repair cross-complementing protein 5

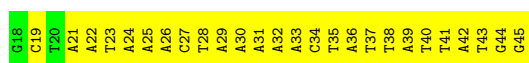




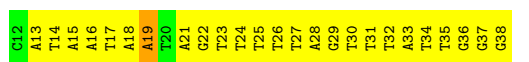
• Molecule 7: DNA (28-MER)



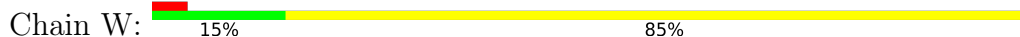
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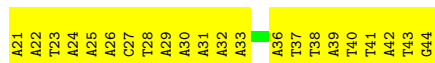
• Molecule 8: DNA (27-MER)



• Molecule 8: DNA (27-MER)



• Molecule 9: DNA (24-MER)



• Molecule 10: DNA (24-MER)



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	9114	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	46.8	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	130000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.338	Depositor
Minimum map value	-0.177	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.018	Depositor
Recommended contour level	0.066	Depositor
Map size (Å)	704.16003, 704.16003, 704.16003	wwPDB
Map dimensions	540, 540, 540	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.304, 1.304, 1.304	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	K	0.27	0/1647	0.52	3/2215 (0.1%)
1	L	0.29	0/1605	0.52	1/2155 (0.0%)
1	N	0.20	0/1654	0.41	0/2224
1	O	0.19	0/1603	0.42	0/2154
2	M	0.13	0/2135	0.34	0/2883
2	P	0.24	0/2140	0.41	0/2890
3	Q	0.16	0/1755	0.42	0/2377
3	R	0.15	0/1773	0.36	0/2402
3	X	0.24	0/1766	0.40	0/2392
3	Y	0.11	0/1773	0.34	0/2402
4	A	0.18	0/27902	0.41	4/37795 (0.0%)
4	F	0.26	0/28192	0.52	15/38135 (0.0%)
4	S	0.19	0/28373	0.44	7/38372 (0.0%)
5	B	0.20	0/3712	0.43	1/5018 (0.0%)
5	G	0.21	0/4000	0.44	0/5388
5	T	0.17	0/3833	0.43	0/5160
6	C	0.18	0/4039	0.39	1/5457 (0.0%)
6	H	0.19	0/5232	0.43	0/7057
6	U	0.18	0/5246	0.46	1/7075 (0.0%)
7	I	0.43	0/647	0.72	3/996 (0.3%)
7	V	0.21	0/647	0.44	0/996
8	J	0.31	0/623	0.58	1/961 (0.1%)
8	W	0.26	0/623	0.55	0/961
9	D	0.27	0/554	0.48	0/852
10	E	0.23	0/552	0.47	0/851
All	All	0.21	0/132026	0.45	37/179168 (0.0%)

There are no bond length outliers.

All (37) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	3577	GLN	N-CA-C	-11.42	99.17	113.55
4	F	1142	HIS	N-CA-C	-8.92	102.12	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	219	VAL	N-CA-C	-8.34	104.57	112.83
1	K	140	LYS	N-CA-C	-8.33	103.28	113.19
4	S	956	PRO	N-CA-CB	7.75	110.60	103.08
4	S	2432	GLN	N-CA-C	-7.55	104.59	113.88
1	K	141	ASN	N-CA-C	-7.40	101.99	111.02
7	I	25	DA	P-O3'-C3'	-7.23	109.36	120.20
7	I	26	DA	P-O3'-C3'	-6.66	110.21	120.20
6	U	50	ASN	N-CA-C	-6.62	98.18	109.24
4	F	102	PRO	N-CA-C	-6.59	105.62	113.86
4	S	4068	HIS	CB-CA-C	-6.51	102.78	112.09
4	A	433	PRO	N-CA-C	-6.48	104.20	113.47
4	F	955	ALA	CA-C-N	6.45	127.02	120.38
4	F	955	ALA	C-N-CA	6.45	127.02	120.38
5	B	340	PHE	N-CA-C	-6.34	105.85	113.97
4	F	956	PRO	N-CA-CB	6.33	109.22	103.08
4	F	3685	PRO	N-CA-CB	-6.26	96.68	103.25
1	L	138	GLN	N-CA-C	6.23	121.10	112.45
4	F	1143	VAL	N-CA-C	-6.10	103.75	112.35
7	I	24	DA	P-O3'-C3'	-6.04	111.14	120.20
4	F	963	LYS	N-CA-C	-5.96	105.86	113.01
4	F	3960	PRO	N-CA-C	-5.92	100.29	112.47
4	F	2949	THR	N-CA-C	-5.73	108.09	114.62
4	S	165	LYS	CA-C-N	5.63	123.79	120.24
4	S	165	LYS	C-N-CA	5.63	123.79	120.24
4	F	1387	GLY	N-CA-C	-5.54	107.05	114.25
1	K	137	ASN	CA-C-O	-5.52	114.78	119.97
6	C	487	PHE	N-CA-C	-5.48	105.38	111.36
4	S	1081	ALA	CA-C-N	-5.40	111.13	121.94
4	S	1081	ALA	C-N-CA	-5.40	111.13	121.94
8	J	19	DA	C2'-C3'-O3'	-5.36	103.47	111.50
4	A	3529	ILE	N-CA-C	-5.35	102.14	109.37
4	F	3680	LEU	N-CA-C	-5.25	101.74	109.62
4	F	2311	ARG	N-CA-C	-5.23	107.55	114.04
4	A	3531	TYR	N-CA-C	5.04	120.95	109.81
4	A	432	THR	CB-CA-C	5.01	120.05	110.17

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	K	1618	0	1597	160	0
1	L	1579	0	1564	149	0
1	N	1625	0	1611	130	0
1	O	1577	0	1557	112	0
2	M	2087	0	2036	196	0
2	P	2091	0	2042	170	0
3	Q	1723	0	1733	163	0
3	R	1739	0	1754	168	0
3	X	1733	0	1749	61	0
3	Y	1739	0	1754	83	0
4	A	27365	0	26865	1779	0
4	F	27665	0	27584	2231	0
4	S	27830	0	27817	1981	0
5	B	3646	0	3608	314	0
5	G	3924	0	3997	419	0
5	T	3764	0	3852	422	0
6	C	3968	0	3876	306	0
6	H	5128	0	5128	513	0
6	U	5143	0	5166	496	0
7	I	576	0	318	69	0
7	V	576	0	318	66	0
8	J	557	0	311	59	0
8	W	557	0	311	66	0
9	D	493	0	273	46	0
10	E	494	0	278	33	0
All	All	129197	0	127099	9393	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 37.

All (9393) 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)
4:S:1082:PHE:HB3	4:S:1129:ASP:H	1.09	1.09
4:S:1077:GLY:HA2	4:S:1124:ILE:HA	1.36	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3574:ALA:H	4:F:3685:PRO:HD3	1.21	1.02
4:F:728:SER:O	4:F:732:PHE:HB2	1.61	1.00
4:F:175:TYR:HB2	4:F:221:ALA:HA	1.44	0.99
4:A:3640:PHE:HA	4:A:3644:PHE:HB3	1.46	0.98
1:K:138:GLN:H	1:L:137:ASN:N	1.61	0.97
4:F:3772:ASN:HB3	4:F:3788:LEU:HB3	1.49	0.94
6:U:49:GLU:HB2	6:U:238:LYS:HE3	1.48	0.94
1:K:137:ASN:HA	1:L:139:ALA:H	1.31	0.94
1:K:138:GLN:N	1:L:137:ASN:H	1.65	0.93
4:F:15:LEU:O	4:F:19:LEU:HB2	1.69	0.93
4:F:3575:LEU:H	4:F:3684:SER:N	1.66	0.92
4:F:3575:LEU:H	4:F:3684:SER:H	0.93	0.92
4:S:1288:SER:O	4:S:1292:LYS:HB3	1.70	0.92
2:M:887:LYS:HD2	2:M:906:GLU:HB3	1.53	0.91
4:F:565:TYR:HD2	4:F:641:PHE:HB2	1.36	0.91
5:G:203:MET:HE1	5:G:239:LEU:HG	1.53	0.90
4:A:301:CYS:HA	4:A:309:LYS:HA	1.54	0.90
4:A:856:VAL:HG13	4:A:3132:VAL:HG23	1.52	0.90
6:U:161:LEU:H	6:U:211:VAL:HG11	1.36	0.90
4:S:169:THR:HA	4:S:172:GLU:HB2	1.52	0.90
4:F:179:GLY:HA2	4:F:227:LEU:HA	1.51	0.89
6:H:652:GLU:O	6:H:656:ASN:HB2	1.72	0.89
5:B:402:PRO:HD2	5:B:406:ILE:HG21	1.52	0.89
4:S:341:PHE:HB3	4:S:369:PHE:HD1	1.38	0.88
4:F:892:LEU:HB3	4:F:908:ASP:HB2	1.56	0.88
6:H:325:LYS:O	6:H:329:GLU:HB2	1.74	0.88
4:S:3757:ASP:H	4:S:4014:LYS:HE3	1.37	0.87
5:T:258:ARG:HA	7:V:34:DC:H5''	1.55	0.87
5:B:181:ALA:N	5:B:184:SER:HG	1.73	0.87
4:S:2298:GLU:HA	4:S:2301:GLN:HB3	1.54	0.87
7:I:29:DA:H2''	7:I:30:DA:H2'	1.55	0.87
7:V:21:DA:H3'	7:V:22:DA:H4'	1.54	0.86
6:U:46:VAL:HA	6:U:237:PHE:HB3	1.57	0.86
6:H:313:GLY:HA2	6:H:322:PRO:HA	1.57	0.86
4:A:432:THR:H	4:A:433:PRO:HD2	1.40	0.86
6:U:334:LYS:HD3	8:W:33:DA:H8	1.39	0.86
4:F:3008:TRP:HB3	4:F:3051:LEU:HD11	1.56	0.86
4:A:438:LEU:O	4:A:442:GLN:HB2	1.75	0.86
4:S:583:LEU:HA	4:S:615:ALA:H	1.41	0.85
5:T:169:PHE:HB3	5:T:205:LEU:HD22	1.58	0.85
4:F:3574:ALA:N	4:F:3685:PRO:HD3	1.90	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:141:ASN:HA	1:N:144:LEU:HD22	1.57	0.85
4:F:3575:LEU:N	4:F:3684:SER:H	1.74	0.85
4:F:925:GLN:HA	4:F:2769:VAL:HG22	1.56	0.85
4:F:3501:HIS:HE2	4:F:4001:THR:HG1	1.24	0.85
6:H:20:MET:HB3	6:H:31:PHE:HB2	1.56	0.85
6:H:453:ALA:HA	6:H:532:LYS:HZ2	1.42	0.85
4:F:1131:ILE:HD13	4:F:1186:LYS:HD2	1.58	0.84
4:F:3575:LEU:N	4:F:3683:CYS:H	1.75	0.84
5:G:173:ASP:HB2	5:G:214:SER:H	1.43	0.84
4:S:430:VAL:HG23	4:S:1643:MET:HG2	1.57	0.84
4:F:919:LEU:HD12	4:F:971:ARG:HH21	1.43	0.84
4:S:272:LEU:HD13	4:S:312:ALA:HB2	1.59	0.84
4:S:3262:LEU:HD13	4:S:3276:TRP:HA	1.58	0.84
4:F:3778:ASP:H	4:F:3781:CYS:HB2	1.42	0.84
6:H:457:LEU:HA	6:H:461:MET:HE2	1.59	0.84
3:Q:211:VAL:HA	3:Q:215:GLN:HE21	1.42	0.84
4:S:1082:PHE:HB3	4:S:1129:ASP:N	1.93	0.84
4:F:3255:ALA:HB1	4:F:3258:LEU:HB2	1.58	0.83
5:G:59:PRO:HG2	5:G:171:ASN:HD21	1.41	0.83
6:H:274:LYS:NZ	6:H:275:THR:O	2.11	0.83
4:F:3410:ILE:HG22	4:F:3414:MET:HE1	1.58	0.83
4:F:4057:ALA:HB1	4:F:4082:ARG:HA	1.61	0.83
4:S:3767:LEU:HD11	4:S:4001:THR:HG23	1.59	0.83
6:U:599:ARG:HH21	6:U:638:CYS:HA	1.43	0.83
4:F:2809:PHE:HB3	4:F:2813:PHE:HE2	1.44	0.83
4:F:1366:THR:HB	4:F:1369:MET:HE2	1.60	0.83
4:F:31:GLY:HA3	4:F:77:GLU:HB2	1.61	0.83
4:F:2891:ARG:HH22	4:F:3898:LEU:HB2	1.44	0.82
4:S:3335:ARG:HH11	4:S:3415:THR:HA	1.43	0.82
7:V:31:DA:H3'	8:W:29:DG:H2''	1.61	0.82
4:F:895:ALA:HA	4:F:904:VAL:HA	1.60	0.82
4:S:411:PRO:HB2	4:S:453:MET:HE3	1.59	0.82
4:F:1172:LEU:HD11	4:F:1187:SER:HB2	1.59	0.82
4:F:3278:GLN:HB3	4:F:3282:ARG:HH12	1.44	0.82
5:G:298:THR:HA	6:H:295:TYR:HA	1.62	0.82
7:I:21:DA:H2'	7:I:22:DA:C4	2.15	0.82
4:S:3535:ILE:HD13	4:S:3794:VAL:HB	1.59	0.82
4:S:3243:ILE:HD11	4:S:3258:LEU:HG	1.61	0.82
2:M:865:ILE:HD11	2:M:888:ILE:HG22	1.61	0.82
4:F:919:LEU:HG	4:F:920:THR:HG23	1.60	0.82
4:S:3324:ARG:HH12	4:S:3409:VAL:HG22	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:22:VAL:HG13	1:L:34:ILE:HG12	1.60	0.82
4:A:3773:GLY:HA2	4:A:3788:LEU:HB3	1.62	0.82
4:F:177:LEU:H	4:F:223:CYS:HA	1.44	0.81
4:S:272:LEU:HD11	4:S:300:TRP:HB3	1.60	0.81
6:U:56:LEU:H	6:U:81:ARG:HB2	1.45	0.81
4:F:1867:ILE:HD13	4:F:1936:ARG:HB3	1.62	0.81
1:K:61:MET:HG2	3:R:112:LEU:HB2	1.62	0.81
4:F:865:GLN:HE22	4:F:3171:ALA:H	1.28	0.81
4:F:1572:LEU:HD12	4:F:1618:LEU:HD11	1.61	0.81
7:I:40:DT:H72	8:J:16:DA:H62	1.45	0.81
4:S:3887:PHE:HD1	4:S:3901:ARG:HB2	1.45	0.81
4:S:117:LYS:HA	6:U:300:ASP:HB2	1.61	0.81
5:T:42:VAL:HG12	5:T:169:PHE:HB2	1.62	0.81
5:T:254:ARG:HH21	8:W:25:DT:H1'	1.45	0.81
1:K:138:GLN:H	1:L:137:ASN:H	0.83	0.81
4:A:3365:SER:HB3	4:A:3376:GLY:HA3	1.61	0.81
4:A:3751:LEU:HD23	4:A:3805:TRP:H	1.46	0.81
5:T:490:LEU:HD23	6:U:316:TYR:HB2	1.63	0.81
4:F:1220:LEU:HD11	4:F:1287:GLN:HB2	1.63	0.81
4:A:3950:THR:N	4:A:4068:HIS:H	1.79	0.81
4:S:1264:LEU:HD22	4:S:1341:ILE:HG22	1.63	0.81
4:S:3469:LEU:HD22	4:S:3505:LEU:HB2	1.62	0.81
5:G:132:GLN:HA	5:G:136:GLY:HA2	1.62	0.81
4:S:229:SER:HA	4:S:278:HIS:HE1	1.46	0.81
5:T:214:SER:HB2	5:T:217:TYR:HB2	1.61	0.81
4:A:3819:THR:HG23	4:A:3889:ARG:HH12	1.44	0.80
1:N:16:ILE:HB	1:O:118:ASN:HD21	1.46	0.80
4:F:54:GLN:HG3	4:F:3100:LYS:HD2	1.63	0.80
4:F:3029:LYS:HG2	4:F:3032:SER:HB3	1.61	0.80
4:S:3949:ALA:HB1	4:S:4064:LEU:HD23	1.64	0.80
4:F:901:MET:HG2	4:F:903:PRO:HD3	1.64	0.80
5:G:275:ASN:HB3	6:H:431:ARG:HH22	1.44	0.80
5:G:363:ARG:HA	6:H:359:ASN:HA	1.63	0.80
4:A:789:TYR:HA	4:A:793:LEU:HD13	1.63	0.80
4:F:675:ARG:HA	4:F:678:LYS:HE2	1.63	0.80
2:M:682:ILE:HG13	2:M:687:GLY:HA3	1.64	0.80
1:N:98:GLU:HA	1:N:108:LEU:H	1.45	0.80
2:P:716:ASN:HA	2:P:745:HIS:HE1	1.46	0.80
5:G:194:ARG:HE	5:G:199:PHE:HA	1.46	0.80
4:F:3736:LYS:HB2	4:F:3752:VAL:HB	1.63	0.80
4:A:1717:LEU:HD21	4:A:1742:CYS:HB3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:838:LEU:HD21	2:M:866:GLY:HA2	1.64	0.80
4:F:2225:HIS:HB2	4:F:2231:PHE:HB2	1.62	0.80
1:K:140:LYS:H	1:L:137:ASN:HA	1.46	0.79
4:A:3534:ILE:HB	4:A:3798:SER:H	1.47	0.79
5:T:77:SER:HA	5:T:249:LYS:HB2	1.63	0.79
4:F:3029:LYS:HB3	4:F:3033:GLU:HG2	1.63	0.79
1:N:168:ALA:HB1	2:P:810:LEU:HD22	1.62	0.79
4:F:2570:PRO:HB2	4:A:902:LYS:HG3	1.65	0.79
4:S:855:VAL:HA	4:S:858:MET:HE2	1.62	0.79
4:F:1234:GLY:HA2	4:F:1292:LYS:HE2	1.63	0.79
4:F:627:VAL:HG13	4:F:668:LYS:HE2	1.61	0.79
6:H:646:ALA:HA	6:H:651:GLU:HG3	1.64	0.79
4:A:3950:THR:H	4:A:4068:HIS:H	1.31	0.79
4:S:753:GLN:HA	4:S:795:CYS:HB3	1.65	0.79
5:T:413:LEU:HB3	5:T:432:PHE:HB3	1.64	0.79
6:H:151:ILE:HD11	6:H:211:VAL:HG13	1.64	0.79
4:A:3944:HIS:HD1	4:A:3948:SER:HG	1.27	0.79
4:S:3246:ALA:HA	4:S:3251:ASN:HB2	1.63	0.79
4:F:4102:THR:HA	4:F:4105:LYS:HE2	1.63	0.79
4:F:28:ALA:HA	4:F:77:GLU:HB3	1.63	0.79
5:G:454:ALA:HB3	6:H:379:SER:HB3	1.64	0.79
4:S:332:GLU:HB2	4:S:335:LYS:HB2	1.65	0.79
1:K:62:GLU:HG3	3:R:116:PRO:HA	1.65	0.79
4:A:1264:LEU:HD23	4:A:1340:ARG:HB3	1.64	0.79
4:F:1465:HIS:HA	4:F:1468:LEU:HB3	1.64	0.78
5:B:481:PRO:O	5:B:485:GLN:HB2	1.83	0.78
4:F:3574:ALA:HB3	4:F:3685:PRO:HG3	1.65	0.78
4:F:3962:ARG:HH12	4:F:4125:GLU:HB3	1.45	0.78
4:F:2805:ALA:HA	4:F:2808:LEU:HD12	1.66	0.78
4:A:984:TYR:HA	4:A:987:LEU:HB3	1.63	0.78
4:A:1098:GLN:HG3	4:A:1151:ARG:HB3	1.66	0.78
4:A:2546:TYR:H	4:A:2842:ARG:HH22	1.30	0.78
4:S:31:GLY:HA3	4:S:77:GLU:HB3	1.64	0.78
5:T:67:ILE:HG13	5:T:119:LEU:HD21	1.65	0.78
4:F:175:TYR:C	4:F:225:LYS:HG2	2.08	0.78
4:F:561:ASN:HA	4:F:564:LEU:HD12	1.66	0.78
2:P:758:TYR:HA	2:P:764:SER:HA	1.66	0.78
4:A:2168:LEU:HD21	4:A:2193:ILE:HG12	1.65	0.78
4:A:3610:TYR:HA	4:A:3613:MET:HE2	1.65	0.78
4:F:1300:SER:HA	4:F:1304:HIS:HB3	1.65	0.78
4:F:1766:LEU:HD11	4:F:1775:GLU:HG2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3288:SER:HA	4:F:3292:GLY:HA3	1.66	0.78
6:H:242:ARG:HH12	6:H:273:LYS:HE2	1.49	0.78
5:T:40:PHE:HB2	5:T:85:VAL:HG12	1.66	0.78
6:H:232:ARG:HH22	6:H:514:ASN:HB3	1.49	0.78
4:A:1868:THR:HA	4:A:1871:MET:HE2	1.65	0.78
4:S:646:VAL:HG11	4:S:680:ILE:HD11	1.66	0.77
4:S:3243:ILE:HG23	4:S:3254:LEU:HD11	1.65	0.77
5:G:193:LEU:HB2	5:G:198:ILE:HB	1.65	0.77
4:A:3757:ASP:HB2	4:A:4022:LYS:HE2	1.66	0.77
4:F:2211:LEU:HB3	4:F:2214:ARG:HH21	1.47	0.77
6:H:342:VAL:HA	6:H:393:VAL:HA	1.65	0.77
5:B:490:LEU:HA	5:B:493:LEU:HD12	1.66	0.77
6:U:16:VAL:HA	6:U:20:MET:HE2	1.65	0.77
6:U:391:ALA:H	6:U:408:ALA:HB3	1.48	0.77
2:P:692:ASN:HD22	5:G:290:ARG:HG2	1.49	0.77
4:A:3741:ARG:HB3	4:A:3747:GLU:HG2	1.67	0.77
4:F:1044:ILE:HG21	4:F:1049:GLN:HG3	1.65	0.77
4:F:2366:LYS:HD2	4:F:2369:LYS:HZ1	1.49	0.77
5:G:299:LYS:HB2	6:H:294:VAL:HB	1.65	0.77
4:S:4002:MET:HE1	4:S:4043:LYS:HB3	1.65	0.77
4:F:2122:LEU:N	4:F:2126:MET:SD	2.56	0.77
4:A:1887:ASP:N	4:A:1954:CYS:HG	1.83	0.77
4:A:3868:VAL:HG22	4:A:4114:PRO:HB2	1.66	0.77
4:S:79:ARG:HH12	4:S:119:ARG:HA	1.48	0.77
4:S:796:LEU:HD13	4:S:862:LEU:HD21	1.67	0.77
1:O:145:GLN:O	1:O:149:GLU:HB2	1.85	0.77
6:H:184:ARG:HA	6:H:519:PRO:HA	1.65	0.77
4:F:175:TYR:HA	4:F:225:LYS:H	1.49	0.77
4:F:667:TYR:HA	4:F:670:LEU:HB2	1.67	0.77
5:G:297:LYS:HB3	5:G:299:LYS:HE3	1.67	0.77
2:M:702:ALA:HB1	2:M:709:VAL:HG22	1.65	0.77
2:P:818:VAL:HG23	2:P:862:HIS:HB2	1.66	0.77
4:S:1715:GLU:HB3	6:U:630:PRO:HG2	1.67	0.77
4:S:3494:GLN:HA	4:S:3709:GLY:HA2	1.67	0.77
1:K:176:LEU:HD11	1:L:173:GLU:HG3	1.67	0.76
4:A:4037:ASN:HB2	4:A:4066:LEU:HA	1.67	0.76
5:T:321:ILE:HB	6:U:274:LYS:HG2	1.68	0.76
4:F:3165:THR:HG22	4:F:3241:LYS:HE2	1.67	0.76
5:G:318:ARG:HB2	5:G:329:LEU:HB3	1.67	0.76
4:A:1881:TYR:HB2	4:A:1950:SER:HB2	1.68	0.76
6:U:624:LEU:HA	6:U:671:LEU:HD11	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1529:VAL:HG21	4:F:1578:ALA:HB1	1.68	0.76
4:S:3162:ASN:HB3	4:S:3186:ARG:HG2	1.68	0.76
4:F:1833:LEU:HG	4:F:1836:LEU:HD23	1.66	0.76
4:S:2965:TYR:HA	4:S:2968:ALA:HB3	1.66	0.76
1:K:37:THR:HG22	1:K:39:GLY:H	1.51	0.76
4:A:3588:TRP:CG	4:A:3613:MET:HE1	2.19	0.76
4:S:3011:LEU:HA	4:S:3014:CYS:HB3	1.67	0.76
4:F:108:LYS:HZ2	4:F:148:LYS:HB2	1.50	0.76
4:F:2433:LYS:HG2	4:F:2472:GLN:HE22	1.49	0.76
4:S:2586:PHE:HD1	4:S:2778:GLY:HA3	1.50	0.76
3:R:8:LEU:HD21	3:R:37:LEU:HB2	1.68	0.76
4:F:3183:ILE:HG13	4:F:3242:MET:HE3	1.66	0.76
4:A:2349:LEU:HB3	4:A:2360:PHE:HE1	1.50	0.76
4:S:12:LEU:HB2	4:S:56:SER:HB3	1.68	0.76
5:G:87:PHE:HB2	5:G:103:TYR:HB3	1.66	0.76
5:G:363:ARG:HH22	8:J:28:DA:H5'	1.51	0.76
5:G:469:LEU:HD12	5:G:517:ARG:HE	1.51	0.76
4:A:1335:CYS:HB3	4:A:1391:VAL:HG21	1.66	0.76
4:A:3760:GLN:HE22	4:A:4018:GLN:HB2	1.50	0.76
4:A:4094:PRO:HB2	4:A:4098:LEU:HD21	1.68	0.76
4:S:3052:LEU:HD21	4:S:3059:GLN:H	1.48	0.76
6:C:296:CYS:HA	6:C:304:GLU:HA	1.68	0.75
4:S:3347:CYS:HB3	4:S:3350:GLU:HB2	1.65	0.75
1:O:44:THR:HG23	1:O:116:VAL:HG12	1.68	0.75
5:T:350:PHE:HB2	6:U:463:LEU:HB2	1.66	0.75
5:T:488:ARG:HE	5:T:503:ALA:H	1.34	0.75
4:F:3506:LEU:HD21	4:F:3558:ILE:HG13	1.67	0.75
4:S:213:ARG:HG2	5:T:343:PRO:HD2	1.66	0.75
2:P:800:GLU:HA	2:P:805:TRP:HB2	1.69	0.75
6:H:656:ASN:HB3	6:H:688:LYS:HA	1.68	0.75
4:A:2442:MET:HE1	4:A:2446:LEU:HD13	1.69	0.75
5:T:241:ASP:OD1	5:T:244:ARG:NH1	2.20	0.75
3:Q:41:LEU:HB3	3:R:137:ARG:HG3	1.69	0.75
4:S:326:MET:HA	4:S:329:LYS:HE3	1.68	0.75
4:S:3288:SER:HA	4:S:3292:GLY:HA3	1.67	0.75
4:A:639:ALA:HB1	4:A:642:PHE:HB3	1.67	0.75
6:U:663:GLN:HB2	6:U:702:LYS:HG3	1.66	0.75
4:S:440:VAL:HG21	4:S:485:GLN:HB3	1.69	0.75
4:S:3959:MET:HE1	4:S:3962:ARG:HD2	1.68	0.75
4:F:887:ASP:OD1	4:F:891:ARG:NH2	2.20	0.74
4:F:3778:ASP:O	4:F:3782:SER:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2120:ARG:HB3	4:F:2160:TYR:HE1	1.50	0.74
4:F:3739:ILE:HA	4:F:3749:PRO:HA	1.68	0.74
5:G:33:SER:HB3	5:G:254:ARG:HH21	1.52	0.74
5:T:33:SER:OG	5:T:35:ARG:NH1	2.20	0.74
5:T:411:VAL:HG22	5:T:436:PHE:HA	1.68	0.74
4:F:3179:TRP:HB3	4:F:3242:MET:HE1	1.69	0.74
4:A:1068:LEU:HD11	4:A:1106:ILE:HD12	1.69	0.74
4:A:3628:PHE:HB2	4:A:3677:PRO:HA	1.66	0.74
4:S:1078:ALA:HA	4:S:1128:CYS:H	1.51	0.74
2:M:658:ILE:HG21	2:M:734:SER:HA	1.68	0.74
4:F:1802:TYR:O	4:F:1806:ARG:NH1	2.21	0.74
4:A:2859:GLN:NE2	4:A:2880:CYS:SG	2.59	0.74
4:S:2281:MET:HE1	4:S:2287:PRO:HB3	1.68	0.74
4:S:3701:ILE:HG23	4:S:3740:ILE:HB	1.68	0.74
5:T:483:LEU:HD13	6:U:428:GLU:HG3	1.69	0.74
4:F:1684:LEU:HB3	4:F:1688:LEU:HB2	1.68	0.74
6:H:251:LEU:HD11	6:H:342:VAL:HG23	1.69	0.74
4:A:989:MET:HE2	4:A:993:HIS:HE1	1.52	0.74
4:A:2816:ILE:HG22	4:A:2820:MET:HE1	1.67	0.74
5:T:120:ASP:HA	5:T:123:LYS:HB3	1.69	0.74
2:M:663:GLU:HG3	2:M:688:TYR:HB2	1.68	0.74
4:F:3125:ARG:HA	4:F:3128:LYS:HE3	1.69	0.74
4:A:773:LEU:HG	4:A:858:MET:HE1	1.68	0.74
6:C:76:ASN:HB2	6:C:105:ALA:HB2	1.68	0.74
1:K:141:ASN:HB3	1:L:144:LEU:HD22	1.67	0.74
4:F:835:LYS:HA	4:F:838:LYS:HB2	1.69	0.74
4:F:3493:TRP:HD1	4:F:3521:ILE:HA	1.52	0.74
4:A:3040:TYR:HB3	4:A:3044:MET:HE3	1.68	0.74
4:F:57:LEU:HD11	4:F:99:LYS:HD3	1.70	0.74
4:F:1572:LEU:HG	4:F:1600:MET:HG3	1.70	0.74
4:A:2426:HIS:O	4:A:2432:GLN:NE2	2.20	0.74
4:S:1279:LEU:HA	4:S:1359:LEU:HD11	1.70	0.74
4:S:1879:VAL:HG22	4:S:1883:ARG:HH12	1.52	0.74
4:S:2295:GLN:HE21	4:S:2298:GLU:HB3	1.51	0.74
4:A:3705:TYR:HA	4:A:3713:PRO:HG2	1.70	0.74
4:S:2575:PRO:HA	4:S:2786:LYS:HA	1.70	0.74
4:S:3141:PHE:HD2	4:S:3185:ASN:HA	1.53	0.74
4:S:3665:MET:HA	4:S:3668:LEU:HG	1.69	0.74
5:T:279:LYS:HA	5:T:364:PRO:HG2	1.68	0.74
5:G:389:CYS:HA	5:G:392:LYS:HB3	1.68	0.74
4:S:16:GLN:HE21	4:S:66:LEU:HD22	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:734:LEU:HD21	4:S:768:VAL:HG22	1.69	0.74
4:S:759:GLY:HA2	4:S:762:TYR:HB3	1.70	0.74
4:S:2586:PHE:HE1	4:S:2780:LEU:H	1.35	0.74
6:U:636:ILE:HD13	6:U:677:ILE:HG22	1.68	0.74
4:F:1404:LYS:HA	4:F:1407:LYS:HD3	1.69	0.73
4:F:2347:LYS:O	4:F:2351:GLN:N	2.20	0.73
6:H:44:ARG:HB2	6:H:237:PHE:HB2	1.69	0.73
6:H:45:GLN:NE2	6:H:236:VAL:O	2.21	0.73
4:A:4012:ASP:O	4:A:4016:PHE:N	2.21	0.73
5:B:74:LYS:HG3	5:B:111:PRO:HG3	1.68	0.73
4:S:1848:ILE:O	4:S:1852:LYS:NZ	2.21	0.73
4:S:3863:ASN:H	4:S:3866:GLU:HG2	1.53	0.73
5:T:288:LEU:HA	5:T:295:PRO:HA	1.70	0.73
2:M:707:ILE:HG23	2:M:708:ARG:HE	1.52	0.73
3:R:16:LEU:HD23	3:R:18:LEU:HD11	1.70	0.73
6:H:357:MET:HE2	6:H:425:PRO:HB3	1.68	0.73
8:J:13:DA:H62	8:J:14:DT:H3	1.34	0.73
4:A:35:ILE:HG21	4:A:80:GLU:HB2	1.69	0.73
4:A:895:ALA:HB1	4:A:902:LYS:HB3	1.69	0.73
3:R:8:LEU:HB3	3:R:130:LEU:HD22	1.71	0.73
4:A:3511:ALA:O	4:A:3515:GLN:HB2	1.87	0.73
4:A:3913:ILE:HD12	4:A:3984:MET:HG3	1.70	0.73
5:B:396:ALA:HB3	5:B:413:LEU:HB2	1.69	0.73
5:T:340:PHE:HB2	5:T:408:PRO:HD2	1.68	0.73
4:F:1441:ALA:O	4:F:1445:ARG:NE	2.21	0.73
6:H:44:ARG:HD2	6:H:236:VAL:HB	1.71	0.73
4:A:3066:ASP:O	4:A:3070:HIS:ND1	2.21	0.73
4:S:1151:ARG:HB2	4:S:1163:LEU:HD12	1.69	0.73
1:K:161:ARG:HD3	2:M:898:ILE:HB	1.69	0.73
4:F:2891:ARG:NH2	4:F:3894:PRO:O	2.22	0.73
5:T:59:PRO:O	5:T:63:SER:HB3	1.88	0.73
4:F:1639:LEU:HD23	4:F:1643:MET:HE1	1.67	0.73
4:F:2353:GLN:HB3	4:F:2360:PHE:HB2	1.69	0.73
5:G:95:ASN:HD22	5:G:102:ILE:HB	1.54	0.73
4:A:128:LEU:HA	4:A:131:LEU:HD12	1.70	0.73
4:A:442:GLN:HG2	4:A:457:CYS:HB2	1.71	0.73
4:A:3633:ILE:HA	4:A:3636:PHE:HB3	1.71	0.73
1:K:61:MET:HA	3:R:112:LEU:H	1.53	0.73
4:F:1622:ILE:HD12	4:F:1625:HIS:HB2	1.69	0.73
5:G:352:PRO:HG2	6:H:473:LEU:HB3	1.68	0.73
6:H:165:LEU:HD11	6:H:201:GLN:HE21	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:4102:THR:HA	4:A:4105:LYS:HD2	1.70	0.73
6:C:209:LYS:HB2	6:C:221:LEU:HD21	1.70	0.73
4:F:3142:ILE:O	4:F:3147:LYS:NZ	2.21	0.73
5:G:352:PRO:HB2	5:G:354:VAL:HG22	1.68	0.73
6:H:132:ILE:HG13	6:H:161:LEU:HD13	1.70	0.73
3:Q:97:CYS:HA	3:Q:107:ARG:H	1.53	0.73
4:F:2202:PRO:HG2	4:F:2245:TRP:HA	1.71	0.73
5:G:50:GLU:HG3	5:G:52:GLN:HB2	1.70	0.73
4:A:1365:ASN:HA	4:A:1369:MET:HE3	1.69	0.73
4:S:1665:HIS:H	4:S:1668:PHE:HB3	1.53	0.73
4:F:3988:LEU:HD23	4:F:4100:GLU:HA	1.71	0.73
4:A:3493:TRP:HB2	4:A:3711:PRO:HA	1.70	0.73
4:S:734:LEU:HD22	4:S:772:ALA:HB2	1.70	0.73
4:S:1743:MET:HG2	4:S:1773:VAL:HG13	1.70	0.73
7:V:45:DG:H1'	8:W:13:DA:H2'	1.71	0.73
4:F:3118:ASP:HB3	4:F:3121:LEU:HD13	1.71	0.72
6:C:40:MET:HG3	6:C:235:CYS:HA	1.70	0.72
4:F:3597:ALA:HB2	4:F:3657:SER:HA	1.69	0.72
4:A:661:PRO:HA	4:A:666:PHE:HE2	1.54	0.72
4:A:1633:TRP:HA	4:A:1637:SER:HB3	1.70	0.72
4:A:3858:MET:O	4:A:4119:ARG:NH1	2.22	0.72
4:S:3971:MET:HB3	4:S:3973:PRO:HD2	1.71	0.72
7:V:41:DT:N3	7:V:43:DT:O4	2.21	0.72
4:F:833:HIS:HB3	4:F:838:LYS:HZ2	1.55	0.72
3:X:163:GLU:HB2	3:Y:164:ILE:HG13	1.69	0.72
4:F:3280:TYR:HB3	4:F:3306:LEU:HD21	1.71	0.72
4:F:4088:ASN:HD22	4:F:4110:GLN:HA	1.53	0.72
4:S:3949:ALA:C	4:S:4068:HIS:H	1.97	0.72
5:T:168:LEU:HD22	5:T:202:LEU:HG	1.71	0.72
6:U:154:LEU:HA	6:U:159:ILE:H	1.54	0.72
3:Q:43:GLN:NE2	3:Q:102:ASP:O	2.23	0.72
3:R:27:VAL:HG12	3:R:82:PRO:HG3	1.71	0.72
4:F:1621:THR:O	4:F:1625:HIS:ND1	2.22	0.72
4:F:2440:TYR:HA	4:F:2443:MET:HE3	1.71	0.72
4:F:3588:TRP:HE1	4:F:3610:TYR:HA	1.53	0.72
6:H:701:ALA:HB1	6:H:708:LYS:H	1.54	0.72
4:A:533:HIS:HA	4:A:537:SER:HB2	1.70	0.72
4:A:3065:ILE:HG22	4:A:3069:MET:HE1	1.71	0.72
4:F:16:GLN:HG2	4:F:63:PHE:HB2	1.69	0.72
4:F:185:HIS:HA	4:F:189:MET:HE3	1.70	0.72
5:G:478:PHE:HB2	6:H:426:PHE:HA	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:232:ARG:NH2	6:H:511:HIS:O	2.22	0.72
4:S:2486:ASP:HB2	4:S:2491:THR:HA	1.71	0.72
4:S:3786:LEU:HD13	4:S:3910:LEU:HD12	1.70	0.72
6:H:335:SER:HG	6:H:339:CYS:HG	1.37	0.72
6:H:363:LYS:HG2	6:H:420:VAL:HG12	1.72	0.72
4:A:1818:SER:HA	4:A:1821:ASP:HB2	1.70	0.72
4:A:3864:ARG:HD3	4:A:4087:HIS:HB2	1.71	0.72
5:B:444:ARG:HG3	6:C:264:TYR:H	1.53	0.72
4:S:3332:THR:HG23	4:S:3415:THR:HG21	1.70	0.72
5:T:82:LEU:HD11	5:T:157:VAL:HB	1.71	0.72
5:T:489:ASN:HD22	6:U:331:MET:HE3	1.54	0.72
4:F:2524:PHE:HA	4:F:2530:ARG:HH21	1.54	0.72
6:H:510:GLN:O	6:H:514:ASN:N	2.21	0.72
6:H:686:ILE:H	6:H:702:LYS:HD3	1.55	0.72
4:A:720:GLN:HE22	4:A:1021:VAL:HA	1.55	0.72
5:T:256:LEU:HD22	8:W:26:DT:H4'	1.70	0.72
5:T:329:LEU:HD11	5:T:337:LEU:HD12	1.72	0.72
4:F:219:VAL:HA	4:F:222:GLY:HA3	1.72	0.72
6:H:461:MET:HE1	6:H:529:PRO:HB2	1.72	0.72
4:A:3630:ARG:NH1	4:A:3682:GLU:O	2.23	0.72
4:S:162:LEU:HA	5:T:310:LEU:HD22	1.71	0.72
4:S:3568:ILE:HD11	4:S:3697:ASN:HD22	1.53	0.72
6:U:136:THR:HG22	6:U:138:LEU:H	1.53	0.72
1:N:159:GLN:HA	1:O:158:VAL:HG11	1.70	0.72
3:Q:202:CYS:HB3	3:R:224:GLN:HB3	1.72	0.72
4:F:1882:SER:OG	4:F:1883:ARG:NH1	2.23	0.72
4:F:3620:PRO:O	4:F:3630:ARG:NH1	2.23	0.72
5:G:443:LYS:NZ	6:H:480:THR:O	2.23	0.72
4:A:3298:LEU:HD22	4:A:3333:THR:HA	1.72	0.72
4:A:3951:GLN:C	4:A:4069:GLU:H	1.97	0.72
4:A:4064:LEU:HD22	4:A:4074:PHE:HE1	1.55	0.72
4:A:4088:ASN:ND2	4:A:4113:ASP:OD2	2.22	0.72
1:K:157:ASP:OD1	1:K:161:ARG:NH1	2.23	0.71
2:M:797:ALA:HB2	2:M:814:ARG:HB2	1.72	0.71
4:F:666:PHE:HB2	4:F:732:PHE:HZ	1.53	0.71
5:G:206:LYS:HG2	5:G:207:LYS:HG3	1.72	0.71
7:I:27:DC:H1'	8:J:31:DT:H3	1.55	0.71
4:A:1453:SER:O	4:A:1457:GLN:NE2	2.22	0.71
4:A:1646:LEU:HB3	4:A:1688:LEU:HD11	1.72	0.71
4:F:157:TYR:HA	4:F:160:LEU:HB3	1.72	0.71
4:A:667:TYR:HA	4:A:728:SER:HA	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:627:VAL:HG23	4:A:668:LYS:HE3	1.71	0.71
4:A:2474:TYR:HA	4:A:2477:LEU:HD12	1.72	0.71
6:U:33:GLN:HB2	6:U:227:PHE:HE1	1.53	0.71
4:F:1083:ASN:O	4:F:1087:ARG:NH1	2.22	0.71
6:H:136:THR:HG22	6:H:138:LEU:H	1.53	0.71
4:S:3735:PRO:HB3	4:S:3751:LEU:HG	1.73	0.71
6:U:484:ASN:HB3	6:U:487:PHE:HB2	1.71	0.71
4:F:118:ASP:O	4:F:122:LYS:N	2.24	0.71
4:A:3103:ILE:HD11	4:A:3135:LEU:HA	1.70	0.71
4:A:3243:ILE:HA	4:A:3255:ALA:HA	1.71	0.71
6:C:119:GLN:HG3	6:C:157:CYS:HB3	1.71	0.71
4:S:1108:MET:HA	4:S:1111:LEU:HD12	1.70	0.71
6:U:393:VAL:O	6:U:406:GLY:N	2.22	0.71
1:O:134:ILE:O	1:O:138:GLN:NE2	2.23	0.71
4:F:305:ASN:O	4:F:308:LEU:N	2.22	0.71
4:F:373:CYS:HB2	4:F:423:TYR:CE2	2.25	0.71
4:A:793:LEU:HG	4:A:870:LEU:HD13	1.73	0.71
4:A:1963:GLN:NE2	4:A:2124:SER:OG	2.23	0.71
5:B:48:MET:HA	5:B:59:PRO:HB2	1.72	0.71
4:S:394:GLN:HB2	4:S:1734:PRO:HB3	1.72	0.71
4:S:2304:VAL:O	4:S:2348:GLN:NE2	2.23	0.71
4:S:3758:LEU:O	4:S:3762:GLN:N	2.20	0.71
6:U:463:LEU:HA	6:U:522:VAL:HG11	1.72	0.71
3:Q:181:THR:HG21	3:R:160:LYS:HG2	1.71	0.71
4:F:3789:ARG:NH1	4:F:3790:THR:O	2.23	0.71
5:G:352:PRO:HA	5:G:394:VAL:HA	1.72	0.71
4:A:2556:SER:HB2	4:A:2799:GLN:HA	1.71	0.71
4:F:2151:ILE:HG12	4:F:2192:THR:HG21	1.72	0.71
4:F:3874:ARG:NH2	4:F:4120:THR:OG1	2.23	0.71
4:F:985:GLU:OE2	4:F:1031:ARG:NH2	2.24	0.71
4:F:1847:ALA:HA	4:F:1850:VAL:HG12	1.72	0.71
4:F:3141:PHE:HZ	4:F:3192:LYS:HB2	1.56	0.71
4:A:888:ARG:NH1	4:A:3890:MET:SD	2.64	0.71
4:A:2942:ILE:HA	4:A:2946:GLU:HG2	1.73	0.71
4:S:928:VAL:HG22	4:S:979:VAL:HG21	1.70	0.71
4:S:3518:VAL:HA	4:S:3521:ILE:HD12	1.72	0.71
5:T:59:PRO:HA	5:T:62:MET:HE2	1.71	0.71
4:F:2427:ARG:HH21	4:F:2465:PRO:HD2	1.56	0.71
5:G:348:MET:SD	5:G:399:ARG:NE	2.64	0.71
4:A:1072:ALA:O	4:A:1076:LEU:HB3	1.91	0.71
5:B:283:PRO:HG3	5:B:490:LEU:HD11	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:19:LEU:O	4:S:71:LYS:NZ	2.24	0.71
4:S:1775:GLU:HA	4:S:1778:PHE:HB3	1.72	0.71
4:F:1725:GLN:HG3	4:F:1728:GLU:H	1.55	0.70
4:F:2510:LEU:HA	4:F:2521:ILE:HD13	1.73	0.70
4:F:3511:ALA:O	4:F:3515:GLN:NE2	2.24	0.70
4:A:2367:VAL:O	4:A:2371:PHE:N	2.23	0.70
4:A:3573:ASN:HB3	4:A:3622:ALA:HB1	1.72	0.70
4:S:2244:CYS:SG	4:S:2245:TRP:N	2.63	0.70
6:U:12:LEU:HG	6:U:54:ILE:HD12	1.71	0.70
1:K:7:ARG:HH22	1:L:124:ARG:HB3	1.56	0.70
4:F:380:ASP:HB3	4:F:384:MET:HE1	1.73	0.70
4:F:2824:LYS:O	4:F:2829:LYS:NZ	2.24	0.70
4:S:790:LYS:HA	4:S:869:ASN:HB3	1.72	0.70
4:S:1031:ARG:HA	4:S:1034:ARG:HG2	1.72	0.70
4:F:340:TYR:O	4:F:343:GLU:HG2	1.92	0.70
4:F:933:LEU:HD21	4:F:2794:LEU:HD23	1.72	0.70
4:F:1576:ASP:O	4:F:1580:LEU:N	2.21	0.70
4:F:1766:LEU:HD12	4:F:1773:VAL:HB	1.72	0.70
4:F:1828:LEU:HB3	4:F:1879:VAL:HG11	1.73	0.70
4:F:3740:ILE:O	4:F:3748:HIS:N	2.25	0.70
4:F:3750:PHE:HA	4:F:3805:TRP:H	1.56	0.70
4:S:2122:LEU:N	4:S:2126:MET:SD	2.59	0.70
4:F:2841:ASN:HD21	4:F:2871:LEU:HD11	1.56	0.70
5:G:380:THR:HG22	6:H:444:TYR:HA	1.74	0.70
6:H:613:SER:O	6:H:617:ILE:HG12	1.90	0.70
4:S:766:ALA:HA	4:S:799:TYR:HE1	1.56	0.70
4:S:1403:MET:HG2	4:S:1415:LEU:HD11	1.73	0.70
4:S:3451:LEU:HA	4:S:3454:LEU:HB3	1.73	0.70
4:S:3959:MET:SD	4:S:4124:TRP:NE1	2.60	0.70
6:U:44:ARG:O	6:U:235:CYS:N	2.21	0.70
6:U:342:VAL:HA	6:U:393:VAL:HA	1.72	0.70
1:N:180:PHE:HE2	1:O:176:LEU:HB3	1.56	0.70
4:F:2255:LEU:HB3	4:F:2259:LYS:HE2	1.73	0.70
5:G:214:SER:O	5:G:218:ARG:NE	2.23	0.70
4:A:494:PRO:HG3	4:A:523:THR:HA	1.73	0.70
4:A:3237:SER:HA	4:A:3240:MET:HE2	1.74	0.70
4:S:1817:GLN:NE2	4:S:1868:THR:O	2.24	0.70
4:S:2965:TYR:H	4:S:3253:SER:HB2	1.55	0.70
4:S:3187:CYS:HA	4:S:3190:LEU:HD12	1.74	0.70
5:T:270:SER:HB3	5:T:373:SER:H	1.55	0.70
4:A:876:SER:O	4:A:880:MET:N	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3091:LEU:HD22	4:A:3138:ILE:HG23	1.71	0.70
4:A:3730:ALA:HA	4:A:3734:ARG:HG3	1.73	0.70
4:S:204:LEU:HB3	4:S:249:PHE:HD2	1.56	0.70
4:S:1406:LEU:HA	4:S:1409:SER:HB3	1.74	0.70
4:S:2196:TRP:HB2	4:S:2199:LEU:HB2	1.71	0.70
2:M:667:MET:HE2	2:M:708:ARG:HB3	1.72	0.70
4:F:1751:GLU:O	4:F:1788:ARG:NH1	2.24	0.70
4:F:1816:ARG:HA	4:F:1819:PHE:HE1	1.56	0.70
4:F:3457:ASN:ND2	4:F:3492:CYS:SG	2.64	0.70
6:H:381:ILE:HG23	6:H:410:PRO:HB2	1.74	0.70
8:J:16:DA:H8	8:J:17:DT:H3	1.40	0.70
4:A:631:ARG:HA	4:A:672:ILE:HG21	1.72	0.70
4:A:1087:ARG:O	4:A:1090:ARG:NH2	2.25	0.70
4:A:1469:PRO:O	4:A:1471:GLN:NE2	2.24	0.70
4:S:3262:LEU:HD11	4:S:3279:SER:HB2	1.74	0.70
2:P:865:ILE:HD11	2:P:888:ILE:HG23	1.73	0.70
4:F:1349:LEU:HB2	4:F:1405:ALA:HB1	1.73	0.70
4:F:2253:TYR:H	4:F:2256:ILE:HD12	1.56	0.70
7:I:21:DA:H5'	8:J:37:DG:H22	1.55	0.70
4:A:727:ALA:HA	4:A:730:LEU:HB2	1.74	0.70
4:A:1765:VAL:O	4:A:1772:HIS:NE2	2.25	0.70
5:B:397:LEU:HD21	6:C:477:PHE:HD2	1.57	0.70
5:B:444:ARG:HH21	9:D:25:DA:H5'	1.55	0.70
4:S:1458:LEU:HD13	4:S:1467:ILE:HG21	1.73	0.70
4:S:2830:ASN:O	4:S:2834:GLN:NE2	2.24	0.70
5:T:462:MET:HG2	6:U:257:LEU:HD21	1.74	0.70
6:U:479:THR:HA	6:U:482:ILE:HB	1.73	0.70
1:K:59:MET:HB2	1:K:61:MET:HE2	1.71	0.70
4:F:1232:PRO:HA	4:F:1236:LEU:HD23	1.74	0.70
4:A:1378:GLU:HA	4:A:1450:ALA:HB1	1.73	0.70
4:S:1881:TYR:HE1	4:S:1953:CYS:HB2	1.56	0.70
5:T:261:LEU:HD23	5:T:345:LEU:HB3	1.74	0.70
6:U:9:ALA:HA	6:U:52:ASP:HA	1.72	0.70
6:U:181:GLY:HA3	6:U:476:LEU:HG	1.72	0.70
6:U:643:ARG:NH1	6:U:656:ASN:OD1	2.24	0.70
6:U:646:ALA:HA	6:U:651:GLU:HG3	1.74	0.70
1:K:28:LEU:HD21	1:K:70:LEU:HD12	1.72	0.70
1:L:174:THR:HG23	2:M:792:MET:HG2	1.72	0.70
1:N:22:VAL:HG12	1:N:34:ILE:HG13	1.73	0.70
4:F:3929:MET:HG3	4:F:3940:ILE:HD11	1.74	0.70
4:A:188:GLU:OE2	4:A:192:ASN:ND2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2290:PRO:HG3	4:A:2298:GLU:H	1.57	0.70
5:B:478:PHE:HB2	6:C:426:PHE:HD1	1.56	0.70
4:S:3958:LEU:HA	4:S:4064:LEU:HD21	1.72	0.70
6:U:496:HIS:HB3	6:U:505:LEU:HD13	1.74	0.70
1:L:111:PHE:HB3	1:L:113:LEU:HD21	1.74	0.69
4:F:1568:ASN:HD21	4:F:1596:VAL:HA	1.57	0.69
4:F:2158:ARG:HH22	4:F:2722:ARG:HE	1.38	0.69
6:C:66:ASN:HD21	6:C:77:ILE:HB	1.55	0.69
4:S:31:GLY:HA2	4:S:34:LEU:HD12	1.74	0.69
5:T:480:ASN:O	5:T:484:GLN:N	2.24	0.69
1:K:98:GLU:HG2	1:K:107:ARG:HA	1.74	0.69
4:F:915:THR:O	4:F:919:LEU:HB3	1.92	0.69
4:F:1420:ARG:NH2	4:F:1466:ASN:O	2.25	0.69
4:F:2099:ALA:HA	4:F:2102:LYS:HE3	1.74	0.69
4:F:2323:LEU:HA	4:F:2326:ILE:HD12	1.74	0.69
4:A:644:PRO:HB2	4:A:1505:LEU:HD11	1.73	0.69
4:A:1677:SER:O	4:A:1681:ASP:N	2.23	0.69
4:A:2524:PHE:HA	4:A:2530:ARG:HH21	1.56	0.69
4:A:4021:LEU:HD23	4:A:4028:ILE:HA	1.74	0.69
5:B:296:VAL:HG12	6:C:297:LEU:HD23	1.73	0.69
9:D:21:DA:H1'	10:E:36:DA:H2	1.55	0.69
4:S:2514:ASN:HD22	4:S:2517:LEU:HG	1.56	0.69
5:T:401:THR:HG23	5:T:406:ILE:HG13	1.73	0.69
4:F:1209:LYS:NZ	4:F:1275:THR:O	2.22	0.69
4:F:1452:VAL:HG22	4:F:1517:LEU:HD11	1.72	0.69
4:F:2290:PRO:O	4:F:2292:CYS:N	2.25	0.69
5:G:375:VAL:HG13	6:H:539:LEU:HB3	1.74	0.69
4:A:2387:PRO:HD3	4:A:2418:LYS:HD2	1.75	0.69
4:A:2388:LYS:NZ	5:B:157:VAL:O	2.25	0.69
4:A:3024:PRO:HG2	4:A:3031:TRP:HE1	1.56	0.69
4:A:3034:PRO:HB2	4:A:3037:GLN:HG3	1.72	0.69
4:A:3751:LEU:HB3	4:A:3804:GLU:HA	1.74	0.69
4:S:1816:ARG:NH2	6:U:624:LEU:O	2.22	0.69
4:S:2341:LEU:HD23	4:S:2344:LEU:HD12	1.74	0.69
5:T:352:PRO:HA	5:T:395:ALA:H	1.57	0.69
4:F:666:PHE:HB2	4:F:732:PHE:CZ	2.28	0.69
4:F:1424:THR:HB	4:F:1426:GLN:HE22	1.55	0.69
5:G:258:ARG:HA	5:G:272:GLY:HA2	1.74	0.69
5:G:269:ILE:HA	5:G:375:VAL:HG11	1.73	0.69
6:H:211:VAL:O	6:H:215:LEU:N	2.25	0.69
4:A:1646:LEU:HD21	4:A:1692:ALA:HB2	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:453:ALA:HB2	6:C:532:LYS:HE2	1.72	0.69
4:S:1623:LEU:HD11	4:S:1671:VAL:HG11	1.74	0.69
4:S:2155:GLU:HA	4:S:2158:ARG:HG2	1.73	0.69
4:S:2213:ASN:ND2	4:S:2248:CYS:O	2.25	0.69
3:Y:36:LEU:HB3	3:Y:47:GLU:HB3	1.72	0.69
4:F:49:ALA:O	4:F:53:LEU:N	2.24	0.69
4:F:389:ILE:HG21	4:F:431:TYR:HD1	1.57	0.69
4:F:978:GLN:NE2	4:F:2594:ASP:OD1	2.26	0.69
4:S:100:ILE:O	4:S:104:SER:N	2.25	0.69
4:S:3974:MET:HG3	4:S:3979:LEU:H	1.56	0.69
5:T:42:VAL:HG11	5:T:63:SER:HB2	1.74	0.69
5:T:86:VAL:HG13	5:T:104:VAL:HG22	1.74	0.69
4:F:143:LEU:HD21	4:F:183:GLU:HA	1.75	0.69
4:A:2220:MET:HE3	4:A:2255:LEU:HD12	1.74	0.69
5:B:505:ASP:HB3	6:C:405:VAL:HG13	1.74	0.69
9:D:42:DA:H2'	10:E:15:DA:H4'	1.75	0.69
4:S:1027:ASP:OD2	4:S:1031:ARG:NH2	2.26	0.69
4:S:2290:PRO:O	4:S:2292:CYS:N	2.25	0.69
4:F:1102:GLU:HG3	4:F:1154:PRO:HB3	1.75	0.69
4:F:3733:ARG:HH21	4:F:3758:LEU:HD11	1.58	0.69
5:G:85:VAL:HG22	5:G:106:GLN:HB3	1.73	0.69
6:H:433:TYR:O	6:H:434:MET:HE2	1.92	0.69
4:A:1389:VAL:HG22	4:A:1390:GLN:H	1.56	0.69
6:C:242:ARG:HB3	6:C:265:LYS:HB2	1.74	0.69
6:U:426:PHE:H	6:U:429:ASP:HB2	1.58	0.69
1:L:178:LYS:HZ3	2:M:786:GLU:N	1.90	0.69
2:M:664:PHE:HB2	2:M:682:ILE:HG12	1.75	0.69
2:M:790:GLU:HA	2:M:851:LYS:HE3	1.75	0.69
3:R:54:VAL:HG22	3:R:72:PHE:HE2	1.57	0.69
4:F:156:PHE:O	4:F:160:LEU:N	2.26	0.69
4:F:297:LEU:HD23	4:F:316:LEU:HG	1.74	0.69
4:F:803:SER:HA	4:F:3111:MET:HE1	1.75	0.69
4:F:1169:VAL:HG11	4:F:1198:LEU:HD21	1.73	0.69
4:F:1697:PRO:HB3	4:F:1753:SER:HB3	1.74	0.69
4:F:2883:SER:O	4:F:2885:GLN:NE2	2.23	0.69
4:F:4073:ALA:HB1	4:F:4076:ASP:HB3	1.73	0.69
5:G:194:ARG:HH21	5:G:200:LEU:H	1.41	0.69
6:H:7:LYS:O	6:H:128:GLU:N	2.25	0.69
6:H:199:GLU:HA	6:H:202:LYS:HD3	1.75	0.69
6:H:232:ARG:HH21	6:H:515:MET:HB3	1.56	0.69
4:A:789:TYR:O	4:A:793:LEU:HB2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1813:SER:HB2	4:A:1865:THR:HA	1.73	0.69
6:C:311:ILE:HG13	6:C:324:SER:HB2	1.74	0.69
4:S:1195:VAL:HG13	4:S:1207:TRP:HB3	1.74	0.69
4:S:1300:SER:O	4:S:1334:LYS:NZ	2.25	0.69
4:S:2102:LYS:O	4:S:2106:ARG:NH1	2.26	0.69
4:S:2158:ARG:HE	4:S:2199:LEU:HG	1.57	0.69
4:S:3117:ILE:HG13	4:S:3128:LYS:HG3	1.74	0.69
4:S:3909:ALA:HB2	4:S:3980:MET:HE2	1.74	0.69
5:T:304:ASN:HB3	6:U:289:ILE:HD13	1.75	0.69
5:T:325:ARG:HH11	6:U:501:PRO:HD3	1.56	0.69
5:T:339:ARG:O	6:U:489:ARG:NH1	2.25	0.69
6:U:238:LYS:HD2	6:U:242:ARG:HA	1.74	0.69
6:U:315:ARG:HH11	6:U:320:ILE:HG23	1.57	0.69
6:U:334:LYS:HD3	8:W:33:DA:C8	2.26	0.69
1:N:181:ILE:HD11	2:P:771:LEU:HB3	1.75	0.69
5:G:412:ALA:HB3	5:G:435:VAL:HG23	1.74	0.69
4:A:36:ARG:NH1	4:A:36:ARG:O	2.25	0.69
4:A:3176:MET:HA	4:A:3179:TRP:HD1	1.57	0.69
4:A:3450:MET:SD	4:A:3468:LEU:HB2	2.32	0.69
5:B:297:LYS:HB2	6:C:296:CYS:HB3	1.75	0.69
5:B:511:VAL:O	5:B:515:ASN:N	2.26	0.69
9:D:22:DA:N6	10:E:37:DG:O3'	2.24	0.69
5:T:62:MET:HE3	5:T:205:LEU:HD11	1.73	0.69
3:R:131:VAL:O	3:R:135:LEU:N	2.26	0.69
5:G:47:ALA:HA	5:G:171:ASN:HB2	1.74	0.69
4:A:1888:ASP:HB3	4:A:1895:LYS:HD3	1.75	0.69
4:A:3962:ARG:NH1	4:A:4124:TRP:O	2.26	0.69
4:S:275:PHE:HD2	4:S:315:ALA:HB1	1.58	0.69
4:S:2723:THR:HA	4:S:2726:LEU:HD13	1.75	0.69
6:U:49:GLU:H	6:U:238:LYS:HB3	1.58	0.69
4:F:407:VAL:HA	4:F:410:MET:HE1	1.75	0.68
5:G:338:LYS:HG2	5:G:407:PRO:HD3	1.74	0.68
4:A:720:GLN:NE2	4:A:1020:PRO:O	2.26	0.68
4:A:2169:LEU:HD22	4:A:2208:ASP:HB3	1.75	0.68
4:A:3723:ASP:HB2	4:A:3739:ILE:HB	1.74	0.68
5:B:399:ARG:HD2	5:B:408:PRO:HB2	1.74	0.68
6:C:20:MET:HE1	6:C:60:GLY:HA3	1.75	0.68
4:S:19:LEU:HD13	4:S:34:LEU:HD22	1.72	0.68
4:S:677:ALA:O	4:S:681:LYS:N	2.25	0.68
4:S:865:GLN:HE22	4:S:3171:ALA:H	1.39	0.68
4:S:1184:ARG:HG3	4:S:1262:ALA:HB1	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1436:LEU:HD11	4:S:1486:LEU:HB3	1.75	0.68
4:S:1843:ILE:HA	4:S:1846:ASP:HB3	1.74	0.68
3:X:211:VAL:O	3:X:215:GLN:NE2	2.23	0.68
4:F:304:THR:HG22	4:F:305:ASN:H	1.57	0.68
4:F:894:PHE:N	4:F:905:ILE:O	2.26	0.68
4:F:3988:LEU:HB3	4:F:4100:GLU:HG3	1.75	0.68
5:G:414:VAL:HB	5:G:433:GLN:HB2	1.76	0.68
5:B:259:LEU:HD11	5:B:402:PRO:HA	1.74	0.68
4:S:759:GLY:HA3	4:S:765:LEU:HB2	1.74	0.68
4:S:3252:PHE:O	4:S:3289:ARG:NH2	2.25	0.68
5:T:354:VAL:HG21	6:U:473:LEU:HB2	1.74	0.68
6:U:44:ARG:HA	6:U:234:LEU:HA	1.75	0.68
2:M:819:TYR:HB3	2:M:863:VAL:HG22	1.75	0.68
1:N:137:ASN:OD1	1:O:137:ASN:ND2	2.26	0.68
2:P:856:LEU:HD12	2:P:878:PHE:HD2	1.58	0.68
4:F:83:GLU:HG2	4:F:126:PRO:HD3	1.74	0.68
4:F:2452:ARG:NH2	4:F:2497:GLU:OE1	2.26	0.68
4:F:2526:SER:HA	4:F:2531:LEU:HD12	1.74	0.68
5:G:346:MET:HG2	5:G:348:MET:HE3	1.74	0.68
5:G:523:ASP:HB2	6:H:256:ASN:HB3	1.74	0.68
4:A:885:ALA:O	4:A:888:ARG:NH2	2.26	0.68
4:S:775:GLU:O	4:S:779:TYR:HB2	1.92	0.68
1:K:3:ARG:HA	1:K:75:LEU:HD13	1.76	0.68
4:F:1019:ASP:O	4:F:1026:ARG:NH1	2.26	0.68
4:A:1015:ASP:HA	4:A:1018:VAL:HG12	1.74	0.68
5:B:47:ALA:HB1	5:B:171:ASN:H	1.58	0.68
5:B:93:ASP:O	5:B:98:ASN:ND2	2.23	0.68
6:U:92:GLU:HG2	6:U:499:LEU:HD11	1.74	0.68
6:U:660:LYS:HD3	6:U:702:LYS:HD2	1.76	0.68
4:F:1039:TRP:HA	4:F:1042:LYS:HD3	1.75	0.68
5:G:261:LEU:HB2	5:G:269:ILE:HB	1.74	0.68
4:A:919:LEU:HA	4:A:972:LEU:HD21	1.75	0.68
5:B:443:LYS:HE2	6:C:361:VAL:HB	1.74	0.68
4:S:1441:ALA:H	4:S:1445:ARG:HH21	1.41	0.68
5:T:258:ARG:HB2	7:V:34:DC:H2'	1.75	0.68
1:K:137:ASN:CA	1:L:139:ALA:H	2.05	0.68
4:A:373:CYS:O	4:A:377:ASN:N	2.27	0.68
4:A:3778:ASP:HB2	4:A:3787:GLN:N	2.08	0.68
5:B:34:GLY:O	5:B:253:LYS:NZ	2.27	0.68
4:S:3451:LEU:O	4:S:3455:LYS:N	2.26	0.68
3:X:15:TRP:HB2	3:X:211:VAL:HG21	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:565:TYR:CD2	4:F:641:PHE:HB2	2.26	0.68
4:F:1419:LEU:HD12	4:F:1422:LYS:HB2	1.75	0.68
4:F:3860:LYS:HA	4:F:4073:ALA:HB2	1.75	0.68
4:A:863:GLY:HA3	4:A:3167:ARG:HB3	1.76	0.68
4:A:876:SER:HB2	4:A:879:MET:HB2	1.75	0.68
4:A:3190:LEU:HA	4:A:3193:ILE:HG22	1.73	0.68
6:C:11:VAL:HG23	6:C:55:ALA:HB3	1.76	0.68
6:C:526:SER:O	6:C:530:LEU:N	2.21	0.68
5:T:327:ILE:HG23	6:U:497:ARG:HD2	1.76	0.68
1:K:127:ILE:HB	1:L:7:ARG:HH21	1.59	0.68
1:N:44:THR:HG22	1:N:45:GLY:H	1.59	0.68
3:R:137:ARG:HB3	3:R:138:PRO:HD3	1.75	0.68
5:G:73:SER:HA	5:G:247:ARG:HB3	1.76	0.68
5:G:321:ILE:H	6:H:274:LYS:HE3	1.59	0.68
6:H:510:GLN:HE22	6:H:514:ASN:HD22	1.39	0.68
4:A:3176:MET:HA	4:A:3179:TRP:CD1	2.28	0.68
5:B:95:ASN:HD21	5:B:99:PHE:H	1.40	0.68
4:S:232:CYS:SG	4:S:246:ARG:NH2	2.67	0.68
4:S:2801:ASP:HB3	4:S:2804:ILE:HG12	1.75	0.68
5:T:245:LYS:O	5:T:247:ARG:NH1	2.26	0.68
3:X:184:PHE:HE2	3:Y:149:GLN:HG3	1.57	0.68
1:N:47:VAL:HG21	1:N:111:PHE:HD1	1.57	0.68
4:F:2121:ASP:O	4:F:2127:LYS:NZ	2.27	0.68
5:G:163:HIS:HE1	5:G:165:ARG:HB2	1.58	0.68
4:A:667:TYR:CE2	4:A:727:ALA:HB3	2.29	0.68
4:A:730:LEU:HD22	4:A:755:ALA:HB2	1.76	0.68
4:A:4035:GLU:HG3	4:A:4038:TRP:HB3	1.75	0.68
5:B:458:GLN:NE2	5:B:527:GLU:OE2	2.27	0.68
6:C:478:PRO:HG2	6:C:482:ILE:HD12	1.74	0.68
4:S:418:ALA:HB1	4:S:463:LYS:HB3	1.76	0.68
4:S:537:SER:O	4:S:541:MET:N	2.27	0.68
4:S:538:ASP:HA	4:S:541:MET:HB3	1.76	0.68
4:S:1021:VAL:O	4:S:1026:ARG:NH1	2.27	0.68
4:S:1728:GLU:OE1	6:U:615:GLN:NE2	2.26	0.68
4:S:2814:SER:HB2	4:S:2864:GLN:HG2	1.76	0.68
4:S:3151:LEU:HD22	4:S:3196:LYS:HG2	1.74	0.68
4:S:3169:PRO:HA	4:S:3182:ILE:HG13	1.76	0.68
2:M:879:ARG:HB3	2:M:885:LYS:HG2	1.74	0.68
4:F:532:ARG:HH12	4:F:633:ILE:HD13	1.59	0.68
4:F:3931:ALA:HB3	4:F:3936:GLY:H	1.58	0.68
6:H:280:ASP:HB3	6:H:283:THR:HG22	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2421:VAL:O	4:A:2425:ARG:NH1	2.27	0.68
4:A:2562:LEU:HA	4:A:2565:MET:HE2	1.76	0.68
6:C:9:ALA:HB3	6:C:130:ARG:HG3	1.76	0.68
4:S:1873:TYR:HA	4:S:1877:LEU:HD13	1.76	0.68
4:S:3878:VAL:HB	4:S:4127:TRP:HB2	1.76	0.68
2:P:666:VAL:HA	2:P:701:ILE:HB	1.75	0.67
4:F:16:GLN:NE2	4:F:62:ASP:OD2	2.28	0.67
4:F:1442:GLN:OE1	4:F:1445:ARG:NH2	2.25	0.67
4:F:1679:LEU:HB3	4:F:1717:LEU:HD21	1.76	0.67
4:F:3988:LEU:O	4:F:3992:ARG:NH1	2.26	0.67
5:G:237:SER:OG	5:G:238:LYS:N	2.25	0.67
5:G:325:ARG:HH22	6:H:92:GLU:HG3	1.59	0.67
5:G:412:ALA:HB2	5:G:437:LEU:HD21	1.75	0.67
6:H:11:VAL:HG21	6:H:117:VAL:HG13	1.76	0.67
4:A:763:THR:HB	4:A:846:ILE:H	1.59	0.67
4:A:3536:SER:HA	4:A:3759:ARG:HD3	1.76	0.67
4:A:3951:GLN:O	4:A:4070:LYS:N	2.26	0.67
4:S:992:ILE:HD12	4:S:1036:PHE:HB2	1.75	0.67
4:S:3467:ARG:NH1	4:S:3996:GLY:O	2.27	0.67
5:T:249:LYS:HA	6:U:428:GLU:HA	1.75	0.67
5:T:318:ARG:HB3	6:U:276:TRP:HB3	1.75	0.67
6:U:205:LEU:HA	6:U:208:VAL:HG12	1.76	0.67
6:U:492:GLN:HA	6:U:495:LEU:HD12	1.75	0.67
1:L:22:VAL:HG22	1:L:34:ILE:HG23	1.76	0.67
2:M:787:GLN:HB2	2:M:792:MET:HB2	1.76	0.67
4:F:324:SER:HB3	4:F:368:LEU:HD13	1.76	0.67
4:F:1684:LEU:O	4:F:1689:LYS:NZ	2.27	0.67
5:G:192:ASP:O	5:G:196:THR:N	2.26	0.67
6:H:400:ARG:HG2	7:I:25:DA:H1'	1.76	0.67
4:S:2791:ILE:O	4:S:2795:GLN:N	2.23	0.67
4:S:2884:LEU:HG	4:S:3113:ASN:HB3	1.75	0.67
5:T:260:LYS:HG2	5:T:374:LEU:HD22	1.75	0.67
1:N:131:LEU:HD11	1:O:5:ILE:HB	1.74	0.67
4:F:1685:ASP:H	4:F:1688:LEU:HD12	1.59	0.67
4:F:3808:ASN:ND2	4:F:3933:GLU:OE1	2.27	0.67
4:A:989:MET:HE1	4:A:2779:ASP:HA	1.76	0.67
4:A:1179:PRO:HA	4:A:1262:ALA:HB2	1.76	0.67
4:A:1826:THR:O	4:A:1830:HIS:ND1	2.27	0.67
4:A:3820:MET:HB3	4:A:3882:LEU:HD11	1.76	0.67
5:B:79:ASP:HA	5:B:111:PRO:HD2	1.76	0.67
4:S:524:TYR:HA	4:S:527:TYR:HD2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:8:ILE:HG21	1:L:20:LEU:HD12	1.77	0.67
1:N:152:LEU:HA	1:O:151:LEU:HD22	1.76	0.67
1:O:85:THR:HG21	1:O:99:LYS:HA	1.76	0.67
1:O:121:GLU:HA	1:O:124:ARG:HD3	1.74	0.67
6:H:686:ILE:HG12	6:H:702:LYS:HE2	1.76	0.67
4:A:1493:PRO:HG3	4:A:1501:PRO:HD3	1.76	0.67
4:A:2174:SER:HB3	4:A:2214:ARG:HB3	1.76	0.67
4:A:3625:LEU:O	4:A:3630:ARG:NH1	2.27	0.67
5:B:48:MET:HB3	5:B:60:PHE:HB2	1.76	0.67
5:B:84:ALA:HB2	5:B:108:LEU:HG	1.76	0.67
6:C:212:MET:O	6:C:216:GLU:N	2.26	0.67
4:S:2161:ALA:HA	4:S:2164:TRP:HB2	1.74	0.67
4:S:3608:LYS:HG3	4:S:3612:ARG:HE	1.60	0.67
6:U:48:ALA:HB3	6:U:235:CYS:HA	1.75	0.67
4:F:1104:LEU:HD13	4:F:1134:LEU:HD13	1.77	0.67
4:F:1574:ASN:HD21	4:F:1577:LEU:HB2	1.58	0.67
4:A:2550:ILE:HG13	4:A:2554:PHE:HB2	1.77	0.67
4:A:3003:ASN:O	4:A:3046:ARG:NH2	2.25	0.67
5:B:533:ASP:HB3	6:C:257:LEU:HD11	1.75	0.67
4:S:928:VAL:HB	4:S:2769:VAL:HG11	1.77	0.67
4:S:1079:SER:HB3	4:S:1111:LEU:HD23	1.77	0.67
4:F:2295:GLN:HG3	4:F:2298:GLU:HB3	1.76	0.67
4:F:2321:GLU:HB2	4:F:2366:LYS:HE2	1.76	0.67
4:F:3190:LEU:HD13	4:F:3231:ILE:HB	1.76	0.67
5:G:41:LEU:HD23	5:G:166:ILE:HG23	1.77	0.67
4:A:465:PHE:HZ	4:A:482:VAL:HG11	1.60	0.67
4:A:2574:ASN:O	4:A:2787:HIS:ND1	2.28	0.67
4:A:3828:TYR:HA	4:A:3835:PRO:HD2	1.77	0.67
5:B:275:ASN:O	10:E:26:DT:N3	2.23	0.67
9:D:31:DA:N3	9:D:32:DA:N6	2.42	0.67
4:S:341:PHE:HB3	4:S:369:PHE:CD1	2.26	0.67
4:S:2157:PHE:HB2	4:S:2160:TYR:HB3	1.75	0.67
3:X:213:ASN:HD21	3:Y:151:ARG:HG3	1.59	0.67
4:F:1220:LEU:HA	4:F:1224:PHE:HD2	1.59	0.67
4:F:3613:MET:O	4:F:3617:LEU:N	2.23	0.67
4:F:3729:MET:HB2	4:F:3735:PRO:HB2	1.76	0.67
4:F:4054:ALA:O	4:F:4103:GLN:NE2	2.27	0.67
4:A:1146:ASN:ND2	4:A:1197:LEU:O	2.28	0.67
4:A:2531:LEU:O	4:A:2538:ARG:NH2	2.28	0.67
4:A:2806:LYS:NZ	4:A:2807:GLN:OE1	2.22	0.67
4:S:345:PHE:HB3	4:S:349:ILE:HD12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3166:ASN:ND2	4:S:3182:ILE:O	2.28	0.67
4:S:3594:ALA:HB1	4:S:4011:PHE:HA	1.77	0.67
1:K:137:ASN:HB3	1:L:139:ALA:HB3	1.75	0.67
4:F:93:LEU:HA	4:F:96:MET:HE1	1.75	0.67
4:F:891:ARG:NH1	4:F:956:PRO:O	2.28	0.67
4:F:2347:LYS:HA	4:F:2350:LYS:HD2	1.77	0.67
4:F:3121:LEU:HB3	4:F:3124:SER:HB2	1.75	0.67
4:A:1177:GLY:HA2	4:A:1184:ARG:HG3	1.76	0.67
4:A:2260:PHE:HB2	4:A:2270:ASN:HD22	1.60	0.67
4:A:3243:ILE:HD11	4:A:3259:LEU:HB2	1.76	0.67
4:S:2266:ASN:HB2	4:S:2311:ARG:HB2	1.76	0.67
5:T:194:ARG:HE	5:T:199:PHE:HA	1.60	0.67
5:T:298:THR:HA	6:U:295:TYR:HA	1.74	0.67
6:U:388:ASP:HA	6:U:410:PRO:HG3	1.75	0.67
6:U:484:ASN:O	6:U:488:GLN:N	2.27	0.67
6:H:250:ARG:HH11	6:H:260:ARG:HE	1.42	0.67
4:A:1098:GLN:HG2	4:A:1152:ARG:HG3	1.77	0.67
4:A:3536:SER:O	4:A:3540:TYR:N	2.27	0.67
4:A:4020:MET:HB3	4:A:4027:TRP:HB3	1.76	0.67
5:B:285:PRO:HB2	6:C:312:GLN:HB3	1.77	0.67
4:S:960:GLN:OE1	4:S:964:ARG:NH2	2.28	0.67
4:S:1632:TRP:HA	4:S:1637:SER:HB3	1.76	0.67
4:S:1934:LEU:HD13	4:S:1937:ARG:HH22	1.59	0.67
4:S:3590:ASN:OD1	4:S:3664:ASN:ND2	2.27	0.67
3:Q:43:GLN:NE2	3:Q:102:ASP:OD1	2.28	0.67
3:Q:43:GLN:HE21	3:Q:125:LEU:HD13	1.60	0.67
4:F:374:LYS:HD2	4:F:381:VAL:HG21	1.75	0.67
4:F:762:TYR:HD2	4:F:765:LEU:HB2	1.60	0.67
4:F:1949:ILE:HG12	4:F:2100:LEU:HD22	1.75	0.67
4:F:2205:VAL:HG13	4:F:2208:ASP:H	1.59	0.67
4:F:2415:LEU:HB2	4:F:2420:PHE:HB2	1.77	0.67
4:F:3269:ARG:HE	4:F:3271:ASP:HB2	1.60	0.67
5:G:173:ASP:OD2	5:G:207:LYS:NZ	2.28	0.67
6:H:168:SER:H	6:H:192:PHE:HB2	1.60	0.67
4:A:979:VAL:HA	4:A:2591:ILE:HD11	1.76	0.67
4:A:3497:SER:OG	4:A:3708:ARG:NH2	2.27	0.67
5:B:66:CYS:HB2	5:B:239:LEU:HD12	1.76	0.67
6:C:83:LEU:HB3	6:C:121:GLU:HG3	1.77	0.67
4:S:1055:ASN:H	4:S:1058:SER:HG	1.43	0.67
6:U:643:ARG:HH12	6:U:647:ILE:HG13	1.59	0.67
7:V:37:DT:O2	8:W:22:DG:N2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1357:LYS:HG3	4:F:1361:LYS:HZ3	1.59	0.66
4:F:2439:ILE:HG22	4:F:2443:MET:HE2	1.75	0.66
4:F:3720:ALA:HB3	4:F:3743:HIS:HA	1.77	0.66
4:A:631:ARG:NH1	4:A:671:SER:OG	2.24	0.66
6:C:271:ARG:HH12	6:C:273:LYS:HD3	1.59	0.66
4:S:183:GLU:HG2	4:S:184:VAL:H	1.60	0.66
3:R:135:LEU:HA	3:R:139:LEU:HD12	1.77	0.66
4:F:2491:THR:HB	4:F:2496:GLN:HE21	1.60	0.66
4:F:3059:GLN:HA	4:F:3062:LEU:HB3	1.77	0.66
4:A:411:PRO:HB3	4:A:457:CYS:HA	1.78	0.66
4:A:1099:PHE:HA	4:A:1102:GLU:HB2	1.75	0.66
4:A:2550:ILE:O	4:A:2554:PHE:N	2.27	0.66
5:B:254:ARG:HB2	9:D:33:DA:H1'	1.77	0.66
4:S:1050:GLU:OE1	4:S:1055:ASN:ND2	2.29	0.66
2:M:711:ASN:ND2	6:C:327:ASP:OD1	2.29	0.66
3:Q:47:GLU:OE2	3:Q:57:ARG:NH1	2.27	0.66
4:F:3661:ASP:HA	4:F:3664:ASN:HD22	1.59	0.66
6:H:57:VAL:HA	6:H:79:VAL:HA	1.77	0.66
4:A:1099:PHE:HE1	4:A:1152:ARG:HH22	1.43	0.66
4:A:1824:LEU:O	4:A:1828:LEU:N	2.20	0.66
4:A:2861:ILE:O	4:A:2865:HIS:ND1	2.27	0.66
4:A:3626:GLY:HA2	4:A:3683:CYS:HA	1.76	0.66
4:S:131:LEU:HD23	4:S:134:LEU:HD12	1.77	0.66
6:U:662:LEU:HA	6:U:665:LYS:HG2	1.76	0.66
1:O:34:ILE:O	1:O:45:GLY:N	2.28	0.66
2:P:739:GLN:H	2:P:742:PHE:HE1	1.43	0.66
4:F:1423:ILE:HD11	4:F:1427:SER:H	1.61	0.66
4:F:1663:THR:O	4:F:1665:HIS:ND1	2.28	0.66
4:F:3114:TYR:HA	4:F:3128:LYS:HZ3	1.60	0.66
4:A:1821:ASP:HA	4:A:1825:LEU:HG	1.78	0.66
4:A:3839:TYR:O	4:A:3843:LEU:HG	1.94	0.66
6:U:476:LEU:HD13	6:U:519:PRO:HB3	1.76	0.66
4:F:2380:ASN:HD22	5:G:192:ASP:HB3	1.60	0.66
4:F:3704:GLN:NE2	4:F:3717:VAL:O	2.26	0.66
4:F:3928:PHE:HA	4:F:3940:ILE:HD13	1.77	0.66
4:A:253:LEU:O	6:C:551:GLN:NE2	2.29	0.66
4:A:263:LYS:HB3	9:D:40:DT:H5'	1.76	0.66
4:A:1065:SER:O	4:A:3741:ARG:NH1	2.28	0.66
4:A:1121:LEU:HG	4:A:1122:GLY:H	1.59	0.66
4:A:1848:ILE:HG13	4:A:1911:LEU:HD21	1.75	0.66
5:B:481:PRO:O	5:B:485:GLN:CB	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2574:ASN:O	4:S:2787:HIS:ND1	2.26	0.66
4:S:4064:LEU:HB3	4:S:4077:TYR:HB3	1.77	0.66
5:T:44:ALA:HA	5:T:48:MET:HG2	1.76	0.66
5:T:261:LEU:HD12	5:T:271:VAL:HG11	1.77	0.66
2:P:826:ILE:HG21	2:P:856:LEU:HG	1.77	0.66
3:R:174:LEU:HD11	3:R:180:LYS:HB3	1.76	0.66
4:F:676:ASN:HA	4:F:679:LYS:HE2	1.76	0.66
4:A:1372:LEU:HD21	4:A:1399:CYS:HA	1.77	0.66
4:A:2439:ILE:HG22	4:A:2443:MET:HE2	1.78	0.66
5:B:182:LYS:HA	5:B:185:ARG:HH21	1.60	0.66
4:S:46:SER:HB2	4:S:91:ILE:HD12	1.77	0.66
4:S:1511:ALA:HA	4:S:1514:LEU:HD12	1.78	0.66
4:S:1825:LEU:HD13	4:S:1828:LEU:HD12	1.78	0.66
4:S:3350:GLU:HG2	4:S:3360:LEU:HD11	1.76	0.66
6:U:630:PRO:HA	6:U:633:MET:HG3	1.78	0.66
2:M:767:ILE:HD13	2:M:773:GLN:HE22	1.60	0.66
4:F:37:GLY:HA2	4:F:40:GLN:HG2	1.78	0.66
4:F:1397:ASP:OD1	4:F:1398:VAL:N	2.29	0.66
6:H:663:GLN:HE21	6:H:667:GLU:HG3	1.60	0.66
4:A:57:LEU:HG	4:A:103:TYR:HE2	1.61	0.66
4:A:3959:MET:HE1	4:A:4111:ALA:HA	1.78	0.66
6:C:328:GLU:HG3	6:C:332:LYS:HB3	1.78	0.66
4:S:1529:VAL:HG21	4:S:1578:ALA:HB1	1.78	0.66
4:S:2254:ARG:HH21	4:S:2292:CYS:HB3	1.60	0.66
4:S:2851:PHE:HB3	4:S:2854:PHE:HB3	1.77	0.66
4:S:3853:GLY:H	4:S:3856:MET:HB2	1.60	0.66
6:U:454:VAL:HA	6:U:457:LEU:HB3	1.77	0.66
4:F:639:ALA:HA	4:F:642:PHE:HB3	1.78	0.66
4:F:1021:VAL:O	4:F:1026:ARG:NH1	2.29	0.66
4:F:1649:LEU:HA	4:F:1652:ILE:HD12	1.77	0.66
5:G:303:PHE:HB3	6:H:290:GLN:HB3	1.77	0.66
4:A:1639:LEU:HD11	4:A:1685:ASP:HB2	1.77	0.66
4:S:3313:SER:HA	4:S:3326:GLN:HG2	1.76	0.66
2:P:706:ASN:HB2	2:P:709:VAL:HG23	1.78	0.66
4:F:667:TYR:HB2	4:F:732:PHE:CG	2.30	0.66
4:F:2930:TYR:O	4:F:2935:GLU:N	2.29	0.66
5:G:76:ILE:HB	5:G:247:ARG:HB2	1.78	0.66
7:I:41:DT:O2	7:I:42:DA:N6	2.27	0.66
4:S:3482:LEU:HD22	4:S:3514:VAL:HG11	1.77	0.66
5:T:357:LYS:HD3	5:T:359:HIS:HE1	1.61	0.66
2:M:671:ASP:HB2	2:M:723:PRO:HD2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:850:GLU:HA	4:F:853:ILE:HD12	1.78	0.66
4:F:2587:GLN:O	4:F:2777:HIS:N	2.28	0.66
5:G:446:MET:HE3	6:H:363:LYS:HB2	1.77	0.66
4:A:1867:ILE:HG22	4:A:1871:MET:HE1	1.78	0.66
4:A:2547:SER:OG	4:A:2549:LYS:NZ	2.28	0.66
4:A:3158:LYS:HG2	4:A:3226:ASP:HB2	1.78	0.66
4:A:3353:GLU:HG2	4:A:3356:ALA:H	1.59	0.66
5:B:299:LYS:HB2	6:C:294:VAL:HB	1.79	0.66
4:S:178:LEU:HB3	4:S:227:LEU:HD12	1.76	0.66
4:S:178:LEU:HB3	4:S:227:LEU:HB2	1.77	0.66
4:S:200:PHE:CZ	4:S:227:LEU:HD22	2.31	0.66
4:S:262:LEU:HA	7:V:41:DT:H4'	1.78	0.66
4:S:381:VAL:HB	4:S:424:LEU:HD13	1.78	0.66
4:S:2470:ARG:HH12	4:S:2514:ASN:H	1.44	0.66
2:P:890:LYS:NZ	2:P:909:TYR:O	2.28	0.65
4:F:228:SER:O	4:F:232:CYS:N	2.24	0.65
4:F:414:LEU:HB2	4:F:460:ALA:HB1	1.78	0.65
4:F:883:TYR:HA	4:F:886:TRP:HE1	1.59	0.65
4:F:1712:ARG:HH21	4:F:1713:VAL:HG13	1.61	0.65
5:B:420:LEU:HB3	5:B:424:LYS:HG3	1.76	0.65
4:S:2772:TYR:OH	4:S:2800:ARG:NH2	2.29	0.65
4:S:3595:GLU:OE2	4:S:4014:LYS:NZ	2.27	0.65
3:Q:217:LEU:HG	3:R:194:MET:HE1	1.77	0.65
5:G:264:ASN:OD1	5:G:267:ILE:N	2.26	0.65
4:A:273:ARG:NH1	4:A:314:SER:OG	2.29	0.65
4:A:1624:GLN:HG3	4:A:1661:PHE:HZ	1.59	0.65
4:S:1096:VAL:O	4:S:1100:VAL:HG13	1.95	0.65
4:S:2384:PHE:HA	5:T:151:ALA:HB1	1.78	0.65
4:S:2427:ARG:HH21	4:S:2461:PHE:HA	1.61	0.65
4:S:3046:ARG:HE	4:S:3050:LYS:HG2	1.60	0.65
5:T:330:GLU:O	5:T:334:THR:N	2.25	0.65
3:Y:6:GLN:NE2	3:Y:222:THR:O	2.29	0.65
1:K:18:HIS:HB3	1:K:36:LEU:HD11	1.77	0.65
1:L:143:HIS:O	1:L:146:LYS:HG3	1.96	0.65
4:F:2441:LYS:O	4:F:2445:LYS:NZ	2.25	0.65
4:F:3595:GLU:HB3	4:F:3601:VAL:HB	1.77	0.65
5:G:211:PHE:O	5:G:218:ARG:NH2	2.30	0.65
5:G:335:GLU:O	5:G:339:ARG:N	2.30	0.65
6:H:626:THR:HG22	6:H:628:GLU:H	1.60	0.65
4:A:663:ILE:HG22	4:A:665:GLY:H	1.61	0.65
4:A:1100:VAL:HG21	4:A:1145:LEU:HD22	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1727:ARG:NH2	4:A:1771:GLN:O	2.29	0.65
4:A:1779:GLN:HB3	4:A:1826:THR:HG21	1.77	0.65
6:C:361:VAL:HG13	6:C:421:TYR:H	1.59	0.65
6:U:111:LEU:HB3	6:U:150:ILE:HB	1.76	0.65
3:X:193:PHE:HA	3:X:197:LYS:HB2	1.77	0.65
3:Q:54:VAL:HA	3:Q:57:ARG:HH21	1.60	0.65
4:F:1040:SER:O	4:F:1044:ILE:N	2.26	0.65
4:F:2225:HIS:ND1	4:F:2234:ASN:OD1	2.25	0.65
5:G:454:ALA:HB2	6:H:375:VAL:HG22	1.78	0.65
7:I:26:DA:H2 <sup>?</sup>	7:I:27:DC:C6	2.30	0.65
4:A:1291:LEU:HD12	4:A:1360:LYS:HD3	1.78	0.65
4:A:2436:LEU:HD13	4:A:2473:MET:HB3	1.76	0.65
6:C:42:VAL:HG11	6:C:94:ILE:HD12	1.78	0.65
4:S:443:ILE:HG22	4:S:527:TYR:HE1	1.62	0.65
4:S:910:PHE:HZ	4:S:2808:LEU:HB2	1.61	0.65
4:S:3150:ASN:HB3	4:S:3155:VAL:HG21	1.77	0.65
5:T:358:LYS:HG2	6:U:353:ARG:HE	1.60	0.65
4:F:388:LEU:HD12	4:F:391:ARG:HB2	1.76	0.65
4:F:1881:TYR:OH	4:F:1955:VAL:N	2.28	0.65
4:F:3410:ILE:HG23	4:F:3453:ALA:HB1	1.78	0.65
5:G:95:ASN:ND2	5:G:99:PHE:O	2.30	0.65
4:A:1169:VAL:HG11	4:A:1198:LEU:HD11	1.79	0.65
6:C:496:HIS:CD2	6:C:503:GLU:HB3	2.32	0.65
4:S:142:ARG:NH2	4:S:181:LEU:O	2.24	0.65
4:S:3585:PHE:O	4:S:3589:SER:N	2.29	0.65
5:T:206:LYS:HG2	5:T:207:LYS:HG3	1.79	0.65
6:U:16:VAL:HG11	6:U:61:THR:HB	1.77	0.65
6:U:50:ASN:H	6:U:236:VAL:HA	1.62	0.65
1:N:34:ILE:HG23	1:N:113:LEU:HG	1.78	0.65
4:F:721:TYR:HB2	4:F:726:LEU:HD13	1.79	0.65
4:F:860:GLY:O	4:F:3133:GLN:NE2	2.29	0.65
6:H:408:ALA:HA	6:H:421:TYR:HA	1.79	0.65
4:A:3562:LEU:HB3	4:A:3568:ILE:HG21	1.76	0.65
4:A:3951:GLN:O	4:A:4070:LYS:HG2	1.96	0.65
4:A:4086:ASP:OD2	4:A:4115:ASN:ND2	2.29	0.65
4:S:431:TYR:HB3	4:S:434:VAL:HB	1.78	0.65
5:T:381:LEU:HD13	6:U:539:LEU:HD11	1.79	0.65
2:M:827:ASN:HA	2:M:855:CYS:HA	1.77	0.65
1:O:158:VAL:HG13	1:O:161:ARG:HH21	1.61	0.65
2:P:868:ASP:HB3	2:P:871:ARG:HE	1.60	0.65
4:F:672:ILE:O	4:F:676:ASN:ND2	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:785:MET:HA	4:F:788:TYR:CZ	2.31	0.65
4:F:1034:ARG:HB3	4:F:1085:ILE:HG22	1.79	0.65
5:G:262:LYS:NZ	5:G:343:PRO:O	2.29	0.65
4:S:901:MET:HE2	4:S:903:PRO:HB3	1.78	0.65
4:S:2388:LYS:NZ	5:T:157:VAL:O	2.27	0.65
4:S:3927:ASN:HA	4:S:3940:ILE:HB	1.79	0.65
5:T:73:SER:HA	5:T:247:ARG:HB3	1.77	0.65
5:T:489:ASN:ND2	6:U:331:MET:O	2.30	0.65
1:O:141:ASN:O	1:O:145:GLN:NE2	2.30	0.65
2:P:890:LYS:HG2	2:P:909:TYR:HB3	1.79	0.65
3:Q:65:LEU:HD22	3:Q:117:PHE:HB2	1.79	0.65
3:Q:193:PHE:HZ	3:R:148:CYS:HB2	1.61	0.65
4:F:729:CYS:O	4:F:732:PHE:HB3	1.97	0.65
4:F:1750:LEU:O	4:F:1754:GLN:N	2.20	0.65
4:F:3925:LEU:HA	4:F:3928:PHE:HD2	1.61	0.65
5:G:338:LYS:HD3	5:G:406:ILE:HG22	1.79	0.65
6:H:39:THR:HG21	6:H:95:GLU:HB2	1.79	0.65
7:I:20:DT:H4'	8:J:36:DG:C4	2.32	0.65
4:A:3581:PRO:O	4:A:3585:PHE:HB2	1.97	0.65
4:A:3813:LYS:HD3	4:A:3925:LEU:HB2	1.79	0.65
4:S:477:ASN:OD1	4:S:478:CYS:N	2.29	0.65
4:S:3837:CYS:SG	4:S:3838:GLU:N	2.70	0.65
1:K:137:ASN:HB2	1:L:135:ALA:HA	1.78	0.65
1:L:187:LYS:NZ	2:M:764:SER:O	2.29	0.65
2:M:701:ILE:HA	2:M:721:VAL:HB	1.77	0.65
4:F:23:ASP:O	4:F:70:ARG:NH2	2.30	0.65
4:F:923:ASP:O	4:F:926:THR:N	2.30	0.65
4:F:2887:PRO:HB3	4:F:3895:GLU:HB3	1.78	0.65
4:F:3117:ILE:O	4:F:3125:ARG:NH2	2.29	0.65
5:G:484:GLN:O	5:G:488:ARG:HD3	1.96	0.65
4:A:42:CYS:SG	4:A:87:LYS:NZ	2.69	0.65
4:A:1526:GLU:HB3	4:A:1577:LEU:HD13	1.78	0.65
4:A:3171:ALA:HA	4:A:3179:TRP:HE1	1.62	0.65
4:A:3772:ASN:O	4:A:3776:ALA:CB	2.44	0.65
4:A:4060:THR:OG1	4:A:4082:ARG:NH1	2.30	0.65
4:S:470:ALA:HA	4:S:1550:VAL:HB	1.79	0.65
4:S:924:ARG:HB3	4:S:2766:ASP:HB3	1.77	0.65
5:T:173:ASP:O	5:T:215:LEU:N	2.28	0.65
5:T:454:ALA:HB3	6:U:379:SER:HB3	1.79	0.65
6:U:249:CYS:O	6:U:260:ARG:NH1	2.29	0.65
2:M:701:ILE:HG21	2:M:726:LEU:HD22	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3084:GLN:O	4:F:3088:LEU:HG	1.96	0.65
4:F:3333:THR:O	4:F:3337:ILE:HG12	1.96	0.65
4:F:3493:TRP:CD1	4:F:3521:ILE:HA	2.32	0.65
6:H:184:ARG:NH2	6:H:476:LEU:O	2.29	0.65
6:H:233:LYS:HG3	6:H:515:MET:HE3	1.79	0.65
4:A:1018:VAL:HA	4:A:1073:PHE:HB3	1.79	0.65
4:A:1348:LEU:O	4:A:1352:SER:N	2.28	0.65
4:S:1049:GLN:HG2	4:S:1055:ASN:HA	1.78	0.65
6:U:390:VAL:HG12	6:U:409:PHE:HA	1.79	0.65
2:P:720:VAL:HG12	2:P:744:ILE:HD12	1.79	0.64
3:Q:21:ASN:ND2	3:Q:99:CYS:SG	2.70	0.64
4:F:828:LYS:O	4:F:832:LYS:NZ	2.29	0.64
4:F:1368:LEU:HB3	4:F:1372:LEU:HD23	1.78	0.64
4:F:2865:HIS:HB2	4:F:2868:LEU:HB2	1.80	0.64
5:G:260:LYS:HD3	5:G:270:SER:HA	1.79	0.64
6:H:660:LYS:HD3	6:H:688:LYS:H	1.61	0.64
4:A:2429:ASP:O	4:A:2433:LYS:CB	2.45	0.64
4:A:3196:LYS:O	4:A:3196:LYS:HD2	1.96	0.64
4:A:3495:PHE:HA	4:A:3498:TRP:HE3	1.62	0.64
6:C:10:VAL:HG22	6:C:131:HIS:HB2	1.79	0.64
2:M:693:PRO:O	5:B:290:ARG:NH2	2.30	0.64
3:Q:62:ASN:ND2	3:Q:118:TYR:O	2.30	0.64
4:F:174:VAL:C	4:F:224:LEU:H	2.05	0.64
4:F:2308:SER:HB2	4:F:2352:HIS:CE1	2.31	0.64
4:F:2813:PHE:HA	4:F:2816:ILE:HG22	1.77	0.64
6:H:60:GLY:H	6:H:76:ASN:HB3	1.62	0.64
6:H:185:LEU:HG	6:H:514:ASN:OD1	1.97	0.64
6:H:337:GLY:H	6:H:399:LYS:HA	1.62	0.64
4:A:2967:GLU:OE1	4:A:2971:GLN:NE2	2.30	0.64
6:C:261:ILE:HG21	6:C:362:LEU:HD23	1.79	0.64
4:S:1948:ALA:O	4:S:1952:ILE:HG12	1.98	0.64
5:T:339:ARG:HH21	5:T:342:ASP:HA	1.61	0.64
3:Y:8:LEU:HD21	3:Y:37:LEU:HB2	1.78	0.64
4:F:217:LEU:HD23	4:F:218:PRO:HD3	1.80	0.64
4:F:320:LEU:HA	4:F:323:VAL:HG22	1.78	0.64
4:F:2384:PHE:HE1	5:G:154:PHE:HB3	1.62	0.64
4:F:3810:VAL:HG11	4:F:3815:LEU:HD13	1.79	0.64
5:G:278:GLN:NE2	6:H:428:GLU:O	2.30	0.64
4:A:199:ALA:HA	5:B:314:SER:HB3	1.78	0.64
4:A:792:ILE:O	4:A:796:LEU:N	2.22	0.64
4:A:847:SER:O	4:A:851:ILE:N	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2524:PHE:O	4:A:2530:ARG:NE	2.30	0.64
4:A:2548:PRO:HB3	4:A:2846:THR:HB	1.77	0.64
4:S:345:PHE:HE1	4:S:366:TYR:HB3	1.62	0.64
4:S:1611:GLN:HE21	4:S:1614:GLN:HE21	1.43	0.64
4:S:2347:LYS:O	4:S:2351:GLN:N	2.29	0.64
5:T:488:ARG:HH21	5:T:503:ALA:HB3	1.63	0.64
6:U:42:VAL:HB	6:U:94:ILE:HD12	1.77	0.64
2:M:826:ILE:HD11	2:M:871:ARG:HG2	1.78	0.64
2:P:654:LYS:NZ	2:P:683:ALA:O	2.25	0.64
4:F:893:SER:HA	4:F:906:PHE:HA	1.80	0.64
4:F:1092:GLU:OE2	4:F:1095:LEU:N	2.29	0.64
4:F:1136:ARG:HG2	4:F:1140:LYS:NZ	2.13	0.64
4:F:1579:VAL:HA	4:F:1582:LEU:HD12	1.78	0.64
4:F:1593:VAL:O	4:F:1597:LEU:HG	1.97	0.64
4:F:2987:THR:HG23	4:F:2990:GLU:H	1.62	0.64
6:H:464:ALA:HA	6:H:476:LEU:HB2	1.80	0.64
6:H:532:LYS:O	6:H:536:LEU:HB2	1.96	0.64
4:A:1840:PHE:HZ	4:A:1877:LEU:HD23	1.61	0.64
4:S:1080:LEU:HD21	4:S:1119:LYS:HB3	1.79	0.64
4:S:2534:ASN:HB3	4:S:2537:ASP:HB2	1.80	0.64
4:S:2924:VAL:HG11	4:S:2989:ALA:HA	1.78	0.64
4:S:3189:PHE:O	4:S:3193:ILE:HG12	1.97	0.64
7:V:21:DA:OP2	8:W:38:DG:N1	2.27	0.64
4:F:3717:VAL:HA	4:F:3743:HIS:CE1	2.33	0.64
4:A:3256:MET:SD	4:A:3283:LEU:HB2	2.36	0.64
5:B:264:ASN:ND2	5:B:266:ASP:OD1	2.30	0.64
4:S:1084:ASN:O	4:S:1087:ARG:NH1	2.30	0.64
4:S:2191:ALA:HB3	4:S:2728:LEU:HD13	1.78	0.64
4:S:3410:ILE:HD11	4:S:3458:SER:HB2	1.79	0.64
4:S:3917:ILE:HG21	4:S:4051:LEU:HD13	1.78	0.64
5:T:476:ASP:HB3	6:U:430:LEU:HD22	1.79	0.64
1:L:18:HIS:HA	1:L:38:ASP:HA	1.79	0.64
1:N:192:ARG:NH2	2:P:768:ASP:OD1	2.30	0.64
2:P:694:GLY:O	2:P:718:HIS:NE2	2.30	0.64
4:F:1015:ASP:OD1	4:F:1016:GLY:N	2.31	0.64
4:F:1568:ASN:HB3	4:F:1600:MET:HE3	1.79	0.64
5:G:289:TYR:HD1	5:G:292:THR:H	1.45	0.64
5:G:474:ARG:NE	5:G:476:ASP:OD1	2.30	0.64
4:A:1095:LEU:HB3	4:A:1099:PHE:CE2	2.33	0.64
4:S:992:ILE:HG21	4:S:1035:GLU:HG3	1.78	0.64
4:S:3306:LEU:HD13	4:S:3355:LYS:HZ1	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3819:THR:HG22	4:S:3889:ARG:HB2	1.78	0.64
4:S:3982:SER:O	4:S:3986:HIS:ND1	2.27	0.64
2:P:741:ARG:NH1	2:P:742:PHE:HB3	2.13	0.64
2:P:813:PHE:H	2:P:848:HIS:HB3	1.62	0.64
4:F:382:ASP:HA	4:F:385:TYR:HB3	1.79	0.64
4:F:1833:LEU:HA	4:F:1836:LEU:HB3	1.79	0.64
4:F:2233:HIS:HB2	4:F:2731:ARG:HE	1.60	0.64
4:F:2233:HIS:CG	4:F:2731:ARG:HG3	2.33	0.64
4:F:3299:THR:OG1	4:F:3303:THR:N	2.30	0.64
5:G:322:TYR:CZ	6:H:274:LYS:HB3	2.33	0.64
4:A:3152:SER:OG	4:A:3197:LEU:N	2.31	0.64
4:A:3723:ASP:N	4:A:3739:ILE:O	2.26	0.64
4:A:3953:LEU:HB2	4:A:4068:HIS:HB3	1.80	0.64
6:C:448:GLU:HA	6:C:451:LEU:HG	1.79	0.64
4:S:528:VAL:O	4:S:532:ARG:HB2	1.98	0.64
4:S:1140:LYS:HD3	4:S:1141:LYS:HZ1	1.62	0.64
1:K:21:GLN:HE22	1:K:126:LEU:HA	1.63	0.64
2:M:821:ASP:HB2	2:M:875:PHE:HZ	1.63	0.64
1:O:61:MET:HB2	1:O:65:LYS:HD2	1.77	0.64
2:P:743:MET:HE2	2:P:746:MET:HA	1.80	0.64
4:F:1476:HIS:H	4:F:1524:LEU:HD21	1.62	0.64
4:F:3324:ARG:HH22	4:F:3409:VAL:HG22	1.63	0.64
6:H:411:HIS:HB2	6:H:420:VAL:HG13	1.80	0.64
4:A:3944:HIS:ND1	4:A:3948:SER:OG	2.23	0.64
5:B:278:GLN:OE1	6:C:431:ARG:NH2	2.31	0.64
5:B:452:ILE:HG21	6:C:374:ALA:HB1	1.80	0.64
6:C:30:PRO:HB3	6:C:166:PRO:HB3	1.80	0.64
4:S:793:LEU:HA	4:S:796:LEU:HB2	1.78	0.64
4:S:2252:PRO:O	4:S:2291:GLN:NE2	2.31	0.64
1:O:33:VAL:HA	1:O:46:THR:HA	1.79	0.64
4:F:78:PHE:HB3	4:F:82:ARG:HH21	1.63	0.64
4:F:2936:TYR:HA	4:F:2939:LEU:HD12	1.80	0.64
8:J:13:DA:N7	8:J:14:DT:N3	2.46	0.64
4:A:89:LEU:O	4:A:133:LYS:NZ	2.29	0.64
4:A:719:LYS:O	4:A:720:GLN:NE2	2.29	0.64
4:A:1817:GLN:HE21	4:A:1869:LYS:HD3	1.61	0.64
4:S:1156:GLY:O	4:S:1171:TRP:NE1	2.31	0.64
4:S:3692:VAL:HG11	4:S:3720:ALA:HA	1.80	0.64
3:Q:146:LEU:HD11	3:Q:214:LEU:HD21	1.79	0.64
3:R:79:LEU:HB2	3:R:85:LYS:HB3	1.79	0.64
4:F:108:LYS:NZ	4:F:145:ASP:O	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1107:TYR:HD2	4:F:1134:LEU:HD11	1.62	0.64
4:F:3292:GLY:HA2	4:F:3295:GLU:HB3	1.79	0.64
4:F:3614:TYR:HA	4:F:3618:GLY:HA3	1.80	0.64
4:F:3644:PHE:HZ	4:F:3659:PHE:HB3	1.63	0.64
4:A:4004:VAL:HA	4:A:4007:LYS:HB2	1.79	0.64
5:B:512:GLU:O	5:B:516:LYS:NZ	2.30	0.64
4:S:3324:ARG:HH21	4:S:3389:VAL:HA	1.61	0.64
4:S:3575:LEU:HD23	4:S:3578:LEU:HD12	1.79	0.64
2:P:823:TYR:O	2:P:871:ARG:NH1	2.31	0.63
4:F:1531:LEU:O	4:F:1534:ASN:ND2	2.31	0.63
4:F:2216:LEU:HG	4:F:2220:MET:HE2	1.79	0.63
4:F:3424:LEU:O	4:F:3428:GLU:N	2.29	0.63
4:F:3765:GLU:HG3	4:F:3793:VAL:HG13	1.79	0.63
4:F:3837:CYS:HB2	4:F:3874:ARG:HD2	1.80	0.63
5:G:458:GLN:HA	5:G:461:LYS:HE3	1.80	0.63
4:A:1766:LEU:O	4:A:1822:ARG:NH1	2.31	0.63
4:A:2887:PRO:HB2	4:A:3895:GLU:HB2	1.80	0.63
4:A:3717:VAL:HB	4:A:3748:HIS:NE2	2.13	0.63
5:B:476:ASP:HB2	6:C:427:MET:HA	1.80	0.63
4:S:43:VAL:HG12	4:S:831:LEU:HB2	1.80	0.63
5:T:360:HIS:HD2	6:U:363:LYS:HD2	1.61	0.63
5:T:407:PRO:HB2	6:U:485:PRO:HB2	1.79	0.63
5:T:440:ALA:O	5:T:443:LYS:NZ	2.29	0.63
5:T:480:ASN:HB3	5:T:483:LEU:HB2	1.79	0.63
5:T:480:ASN:HD21	6:U:402:ASN:HB2	1.62	0.63
6:U:280:ASP:HB3	6:U:283:THR:HG22	1.79	0.63
6:U:357:MET:HG2	6:U:431:ARG:HH22	1.62	0.63
4:F:2420:PHE:O	4:F:2424:MET:HG3	1.97	0.63
4:F:3233:SER:HA	4:F:3269:ARG:HH22	1.61	0.63
4:F:3626:GLY:HA2	4:F:3682:GLU:HB2	1.80	0.63
4:F:4086:ASP:HA	4:F:4089:ILE:HG12	1.79	0.63
5:B:369:TYR:CE2	5:B:429:PRO:HB2	2.33	0.63
6:C:161:LEU:N	6:C:216:GLU:OE2	2.31	0.63
4:S:1765:VAL:O	4:S:1772:HIS:NE2	2.31	0.63
4:S:3110:PHE:HD2	4:S:3135:LEU:HD11	1.63	0.63
6:U:270:GLU:HB3	6:U:487:PHE:HE2	1.63	0.63
4:F:1136:ARG:HG2	4:F:1140:LYS:HZ3	1.62	0.63
6:H:653:GLN:OE1	6:H:653:GLN:N	2.30	0.63
4:A:1369:MET:HG3	4:A:1418:HIS:CE1	2.33	0.63
4:A:1726:SER:OG	4:A:1727:ARG:NH1	2.30	0.63
4:A:1734:PRO:HA	4:A:1737:ASN:HD22	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3469:LEU:HD13	4:A:3501:HIS:HB3	1.79	0.63
4:A:3894:PRO:O	4:A:3895:GLU:HG3	1.98	0.63
6:C:446:PRO:HB2	6:C:450:GLN:OE1	1.98	0.63
4:S:733:LEU:HD12	4:S:751:ALA:HB2	1.79	0.63
4:S:772:ALA:HB1	4:S:776:TRP:HZ3	1.63	0.63
4:S:1050:GLU:HA	4:S:1055:ASN:HD22	1.64	0.63
4:S:2528:GLU:HG2	4:S:2533:SER:H	1.63	0.63
3:R:18:LEU:HD13	3:R:22:SER:HA	1.79	0.63
4:F:172:GLU:O	4:F:173:LYS:NZ	2.26	0.63
4:F:1372:LEU:O	4:F:1376:LEU:HG	1.99	0.63
4:F:1375:THR:HB	4:F:1382:ILE:HG23	1.80	0.63
4:F:3247:ARG:HD2	4:F:3282:ARG:HB3	1.80	0.63
6:H:115:MET:HB2	6:H:159:ILE:HG13	1.81	0.63
4:A:1527:ARG:NH1	4:A:1530:SER:OG	2.32	0.63
4:A:3901:ARG:NH2	4:A:3970:LEU:O	2.31	0.63
4:S:1101:PHE:HB2	4:S:1163:LEU:HD13	1.80	0.63
4:S:2531:LEU:HB3	4:S:2538:ARG:HG2	1.80	0.63
4:S:4006:VAL:HG13	4:S:4040:PRO:HD3	1.80	0.63
6:U:228:SER:HA	6:U:231:LEU:HD12	1.81	0.63
1:K:59:MET:HE2	1:K:61:MET:HE2	1.79	0.63
1:N:19:PHE:N	1:N:37:THR:O	2.25	0.63
2:P:668:SER:OG	2:P:704:SER:N	2.30	0.63
2:P:888:ILE:HB	2:P:910:LEU:HA	1.80	0.63
4:F:1310:GLU:HG3	4:F:1312:CYS:H	1.64	0.63
4:F:2956:ALA:HB2	4:F:2971:GLN:HB2	1.80	0.63
6:H:167:PHE:HB3	6:H:192:PHE:HB3	1.81	0.63
4:A:3087:SER:HB2	4:A:3138:ILE:HD13	1.81	0.63
4:S:163:LYS:HB2	5:T:302:THR:HG22	1.81	0.63
4:S:200:PHE:HZ	4:S:227:LEU:HD22	1.61	0.63
4:S:1716:GLN:HG3	4:S:1717:LEU:HD12	1.80	0.63
6:U:659:LEU:HG	6:U:662:LEU:HD12	1.81	0.63
2:M:800:GLU:HA	2:M:805:TRP:HB2	1.81	0.63
1:O:28:LEU:O	1:O:71:ARG:NH1	2.32	0.63
3:Q:13:TRP:HA	3:Q:26:LYS:HA	1.79	0.63
4:F:1675:TYR:HA	4:F:1678:LEU:HD12	1.80	0.63
4:F:2254:ARG:HH21	4:F:2292:CYS:HB3	1.62	0.63
4:F:2803:ILE:HG23	4:F:2806:LYS:HZ1	1.63	0.63
4:A:887:ASP:OD2	4:A:891:ARG:NH2	2.31	0.63
4:A:1857:LYS:H	4:A:1863:PHE:HB2	1.64	0.63
4:A:1949:ILE:HG12	4:A:2100:LEU:HD22	1.80	0.63
4:A:2371:PHE:HD2	4:A:2374:LEU:HG	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:297:LYS:NZ	6:C:301:ASP:OD2	2.26	0.63
4:S:198:ARG:NH1	5:T:314:SER:OG	2.31	0.63
4:S:3718:ARG:O	4:S:3743:HIS:N	2.30	0.63
4:F:2452:ARG:HD2	4:F:2494:ASP:HB3	1.81	0.63
4:F:3145:ILE:H	4:F:3147:LYS:HZ2	1.45	0.63
6:H:402:ASN:O	6:H:404:GLN:NE2	2.30	0.63
6:H:644:GLU:OE1	6:H:648:LYS:NZ	2.31	0.63
4:A:1346:THR:HG21	4:A:1401:ASN:HB3	1.81	0.63
4:A:3335:ARG:HB2	4:A:3422:GLN:NE2	2.14	0.63
5:B:181:ALA:O	5:B:185:ARG:NE	2.29	0.63
4:S:2151:ILE:HD11	4:S:2189:ILE:HG22	1.80	0.63
4:S:2294:ILE:HD12	4:S:2299:TYR:HE2	1.63	0.63
4:S:3327:ASN:O	4:S:3331:GLY:N	2.30	0.63
5:T:514:MET:SD	6:U:253:ILE:HG23	2.39	0.63
6:U:132:ILE:HG12	6:U:159:ILE:HG22	1.80	0.63
1:N:148:ASN:ND2	1:O:147:GLU:OE1	2.28	0.63
2:P:710:LYS:HA	2:P:713:ILE:HD12	1.81	0.63
3:Q:9:LEU:HD21	3:Q:137:ARG:HH12	1.63	0.63
4:F:2335:ASN:OD1	4:F:2336:ILE:N	2.31	0.63
5:G:132:GLN:OE1	5:G:137:HIS:ND1	2.28	0.63
5:G:144:SER:O	5:G:189:LYS:NZ	2.31	0.63
6:H:234:LEU:HB2	6:H:237:PHE:HB3	1.81	0.63
6:H:292:GLU:OE1	6:H:292:GLU:N	2.29	0.63
6:H:463:LEU:HD21	6:H:519:PRO:HG3	1.81	0.63
4:A:2826:LEU:O	4:A:2830:ASN:ND2	2.31	0.63
4:A:2848:PHE:HB2	4:A:3077:ILE:HD11	1.79	0.63
6:C:299:ASP:HB2	6:C:301:ASP:HA	1.80	0.63
6:C:400:ARG:HH22	10:E:33:DA:H3'	1.64	0.63
4:S:207:GLN:NE2	4:S:215:PRO:O	2.32	0.63
4:S:1000:LYS:HE2	4:S:1004:GLN:HE22	1.64	0.63
4:S:1101:PHE:HD2	4:S:1163:LEU:HB3	1.64	0.63
6:U:143:SER:HB3	6:U:146:GLN:HG3	1.81	0.63
6:U:645:GLU:HA	6:U:648:LYS:HD3	1.81	0.63
2:M:879:ARG:HE	2:M:885:LYS:HB3	1.64	0.63
1:N:63:LYS:HD2	3:Q:111:GLU:HB2	1.81	0.63
4:F:1000:LYS:HA	4:F:1004:GLN:HE21	1.64	0.63
4:F:1375:THR:HA	4:F:1381:SER:HB2	1.80	0.63
4:A:1766:LEU:HA	4:A:1773:VAL:HG21	1.81	0.63
5:B:34:GLY:H	5:B:35:ARG:HH11	1.46	0.63
4:S:1827:LEU:O	4:S:1831:CYS:N	2.31	0.63
6:U:45:GLN:HA	6:U:236:VAL:HB	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:272:VAL:HG22	6:U:275:THR:HA	1.79	0.63
3:X:106:LEU:HB3	3:X:108:VAL:HG23	1.79	0.63
3:Y:11:GLN:HE21	3:Y:28:PHE:HD1	1.46	0.63
3:Q:80:LEU:O	3:Q:85:LYS:N	2.30	0.62
4:F:23:ASP:OD2	4:F:71:LYS:NZ	2.32	0.62
4:F:406:ARG:O	4:F:409:GLN:NE2	2.29	0.62
4:F:826:PHE:HD1	4:F:836:LYS:HE2	1.63	0.62
5:G:126:GLN:O	5:G:130:ARG:HG2	1.99	0.62
5:G:317:LYS:NZ	5:G:330:GLU:OE1	2.31	0.62
5:G:329:LEU:HA	6:H:497:ARG:HH21	1.64	0.62
5:G:350:PHE:HB3	5:G:394:VAL:HG12	1.81	0.62
4:A:172:GLU:HB2	4:A:219:VAL:HB	1.81	0.62
4:A:878:GLU:HB3	4:A:3933:GLU:HB3	1.81	0.62
4:A:1400:VAL:HA	4:A:1403:MET:HG2	1.81	0.62
6:C:250:ARG:O	6:C:340:PHE:N	2.27	0.62
4:S:15:LEU:HD21	4:S:41:GLU:HG3	1.81	0.62
4:S:2328:ARG:HA	4:S:2333:ARG:HH21	1.63	0.62
5:T:166:ILE:HB	5:T:200:LEU:HA	1.81	0.62
5:T:396:ALA:HB3	5:T:413:LEU:HB2	1.81	0.62
4:F:1055:ASN:N	4:F:1058:SER:OG	2.21	0.62
4:F:1104:LEU:HD22	4:F:1134:LEU:HD22	1.81	0.62
6:H:70:GLY:HA3	6:H:74:TYR:HD2	1.63	0.62
4:A:995:PHE:HB3	4:A:1036:PHE:HE1	1.64	0.62
4:A:1212:LEU:HA	4:A:1215:GLU:HG2	1.81	0.62
4:A:1829:TRP:HA	4:A:1883:ARG:HH12	1.64	0.62
4:A:1979:GLU:N	4:A:2141:ASN:OD1	2.30	0.62
4:A:3917:ILE:HG12	4:A:4051:LEU:HD21	1.80	0.62
5:B:444:ARG:NH2	9:D:25:DA:OP1	2.32	0.62
4:S:1597:LEU:O	4:S:1601:LEU:HG	1.98	0.62
2:P:691:GLN:NE2	5:G:291:GLU:O	2.24	0.62
3:Q:154:ALA:O	3:Q:158:HIS:ND1	2.32	0.62
4:F:1756:PRO:HG3	4:F:1797:LEU:HD12	1.81	0.62
4:F:2227:LYS:HB2	4:F:2230:VAL:HG22	1.80	0.62
4:F:2525:TRP:HB2	4:F:2561:PHE:CE2	2.33	0.62
4:F:3472:ILE:HG12	4:F:3479:THR:HB	1.81	0.62
6:H:666:VAL:HG22	6:H:675:TRP:HB3	1.81	0.62
4:A:110:THR:O	4:A:114:VAL:HG23	1.99	0.62
4:A:529:ASP:O	4:A:533:HIS:ND1	2.32	0.62
4:A:3338:ALA:HB1	4:A:3378:TYR:HE1	1.63	0.62
4:A:3531:TYR:HE1	4:A:3801:GLY:HA2	1.63	0.62
4:A:3772:ASN:O	4:A:3776:ALA:HB3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3235:LYS:O	4:S:3238:MET:HB2	1.99	0.62
4:S:3681:LYS:HE2	4:S:3724:GLU:HG2	1.81	0.62
4:S:3953:LEU:H	4:S:4068:HIS:HA	1.64	0.62
5:T:39:ILE:HG13	5:T:150:CYS:SG	2.39	0.62
5:T:288:LEU:HD21	6:U:320:ILE:HD12	1.82	0.62
6:U:201:GLN:HE21	6:U:205:LEU:HD13	1.63	0.62
8:W:19:DA:H2"	8:W:20:DT:C5	2.34	0.62
1:O:99:LYS:HG3	1:O:108:LEU:HD22	1.81	0.62
3:Q:179:LEU:HB2	3:R:159:MET:HG2	1.79	0.62
4:F:2325:LEU:O	4:F:2329:TYR:N	2.32	0.62
6:H:77:ILE:HD11	6:H:110:ALA:HA	1.81	0.62
4:A:444:ASP:O	4:A:520:LYS:NZ	2.32	0.62
4:A:3281:CYS:HA	4:A:3301:LEU:HD22	1.81	0.62
4:A:3640:PHE:O	4:A:3645:GLY:N	2.32	0.62
5:B:161:MET:O	5:B:164:LYS:NZ	2.29	0.62
5:B:392:LYS:HB3	6:C:458:ILE:HD13	1.81	0.62
4:S:826:PHE:HA	4:S:832:LYS:HD2	1.81	0.62
4:S:985:GLU:HA	4:S:988:VAL:HG22	1.81	0.62
4:S:2738:LYS:HE2	4:S:2742:MET:HE3	1.82	0.62
4:S:3151:LEU:HB2	4:S:3197:LEU:H	1.63	0.62
4:S:3154:GLN:HA	4:S:3227:ILE:HD11	1.80	0.62
6:U:643:ARG:HD3	6:U:659:LEU:HD22	1.80	0.62
1:K:53:SER:HA	3:R:115:LEU:HD12	1.81	0.62
1:O:118:ASN:HB3	1:O:121:GLU:HB2	1.82	0.62
4:F:2357:GLU:HA	4:F:2360:PHE:HB3	1.81	0.62
6:H:496:HIS:CD2	6:H:506:PRO:HD3	2.35	0.62
4:A:391:ARG:NH2	4:A:1732:GLY:O	2.32	0.62
4:A:3083:SER:HA	4:A:3086:LEU:HD12	1.82	0.62
4:A:3088:LEU:HG	4:A:3138:ILE:HD11	1.81	0.62
4:S:117:LYS:HG3	4:S:118:ASP:H	1.65	0.62
4:S:269:SER:HB2	4:S:273:ARG:HH12	1.65	0.62
4:S:441:MET:SD	4:S:489:ARG:NH2	2.72	0.62
6:U:46:VAL:HG21	6:U:88:PHE:CE1	2.35	0.62
6:U:49:GLU:HB2	6:U:238:LYS:HG2	1.81	0.62
4:F:1788:ARG:O	4:F:1794:GLN:NE2	2.32	0.62
4:F:2158:ARG:HE	4:F:2199:LEU:HG	1.65	0.62
4:F:2313:LYS:HA	4:F:2316:TYR:CZ	2.34	0.62
5:G:166:ILE:O	5:G:201:ASP:N	2.27	0.62
5:G:526:LYS:HZ3	5:G:528:LEU:HB2	1.64	0.62
6:H:262:ALA:H	6:H:368:ARG:HH11	1.48	0.62
4:A:1070:PRO:HB3	4:A:1113:LEU:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1178:ARG:O	4:A:1184:ARG:NH1	2.31	0.62
4:A:1215:GLU:O	4:A:1219:PHE:HB3	1.99	0.62
4:A:3335:ARG:NH1	4:A:3415:THR:O	2.32	0.62
4:S:134:LEU:HD13	4:S:177:LEU:HD13	1.82	0.62
4:S:431:TYR:O	4:S:435:LEU:N	2.31	0.62
4:S:1867:ILE:HA	4:S:1870:LYS:HB2	1.81	0.62
4:S:3583:LEU:HD23	4:S:3586:LYS:HD2	1.81	0.62
5:T:263:LEU:HB2	5:T:269:ILE:HD13	1.82	0.62
5:T:357:LYS:H	5:T:438:PRO:HG2	1.65	0.62
6:U:44:ARG:HH21	6:U:233:LYS:H	1.46	0.62
1:K:89:SER:HG	1:K:92:SER:HG	1.46	0.62
1:L:132:ASP:O	1:L:135:ALA:N	2.32	0.62
1:L:150:ARG:NH2	1:L:154:ASP:OD2	2.33	0.62
3:R:96:SER:OG	3:R:107:ARG:NH1	2.33	0.62
4:F:892:LEU:HG	4:F:907:LEU:HB2	1.82	0.62
4:F:1491:ILE:HD11	4:F:1555:HIS:HE1	1.63	0.62
4:F:3528:ALA:HB2	4:F:3705:TYR:HB2	1.81	0.62
4:A:2161:ALA:HB1	4:A:2200:ALA:HB2	1.81	0.62
4:A:3171:ALA:HB2	4:A:3245:SER:HB2	1.81	0.62
5:B:33:SER:HB2	5:B:160:LYS:HD3	1.81	0.62
6:C:407:VAL:HG12	6:C:422:VAL:H	1.64	0.62
4:S:639:ALA:O	4:S:643:GLU:N	2.32	0.62
4:S:937:MET:O	4:S:941:MET:HG3	1.99	0.62
4:S:1226:GLY:HA2	4:S:1259:LEU:HG	1.80	0.62
4:S:1226:GLY:HA3	4:S:1263:ALA:HB2	1.81	0.62
4:S:2461:PHE:HB3	4:S:2469:CYS:HB3	1.81	0.62
4:S:3700:GLU:HG3	4:S:3718:ARG:HA	1.81	0.62
5:T:481:PRO:HA	5:T:484:GLN:HG3	1.82	0.62
1:N:194:LEU:HA	1:N:197:LYS:HD2	1.82	0.62
4:F:193:ALA:HB1	4:F:231:LEU:HD21	1.81	0.62
4:F:528:VAL:HG11	4:F:632:GLU:HB2	1.81	0.62
4:F:2328:ARG:NE	4:F:2370:SER:O	2.30	0.62
5:G:166:ILE:HB	5:G:200:LEU:HA	1.81	0.62
5:G:289:TYR:N	5:G:294:GLU:O	2.32	0.62
5:G:533:ASP:HA	6:H:250:ARG:HH22	1.63	0.62
4:A:72:SER:HB3	4:A:114:VAL:HA	1.82	0.62
6:C:340:PHE:HA	6:C:395:TYR:HD1	1.64	0.62
4:S:2253:TYR:HB2	4:S:2291:GLN:HE21	1.64	0.62
4:S:2786:LYS:O	4:S:2790:LEU:N	2.33	0.62
4:S:3107:ILE:HG12	4:S:3135:LEU:HB3	1.82	0.62
4:S:3120:LEU:HD11	4:S:3895:GLU:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:412:ALA:H	5:T:437:LEU:HG	1.64	0.62
5:T:451:LYS:HG3	6:U:378:SER:HB2	1.82	0.62
6:U:74:TYR:HB3	6:U:77:ILE:HD13	1.82	0.62
6:U:450:GLN:O	6:U:454:VAL:N	2.27	0.62
3:Q:45:TRP:HB3	3:Q:123:CYS:HB3	1.80	0.62
3:R:75:HIS:HE1	3:R:86:ASP:HA	1.65	0.62
4:F:58:VAL:HG11	4:F:3098:ARG:HD2	1.82	0.62
4:F:3066:ASP:HA	4:F:3069:MET:HE2	1.80	0.62
6:H:74:TYR:CD1	6:H:109:ASP:HB3	2.34	0.62
4:A:1099:PHE:O	4:A:1103:ALA:N	2.32	0.62
4:A:2320:ALA:HB1	4:A:2367:VAL:HB	1.82	0.62
4:A:3232:ARG:HH21	4:A:3265:GLU:HA	1.65	0.62
4:A:3288:SER:OG	4:A:3289:ARG:NH1	2.32	0.62
4:A:3760:GLN:NE2	4:A:4015:ASN:O	2.33	0.62
4:A:4041:ARG:HA	4:A:4044:ILE:HG22	1.82	0.62
4:S:490:ILE:HG21	4:S:524:TYR:HD1	1.64	0.62
4:S:2132:LYS:HD3	4:S:2135:ASN:HD21	1.65	0.62
1:L:137:ASN:O	1:L:141:ASN:HB2	1.98	0.62
1:O:97:PHE:O	1:O:108:LEU:N	2.32	0.62
4:F:997:ASN:HB3	4:F:1000:LYS:H	1.65	0.62
4:F:1795:VAL:HA	4:F:1798:LEU:HD12	1.82	0.62
6:H:686:ILE:HD11	6:H:706:ALA:HA	1.82	0.62
4:A:3298:LEU:HB3	4:A:3333:THR:HG23	1.80	0.62
5:B:369:TYR:CE1	6:C:435:PHE:HB2	2.35	0.62
4:S:569:VAL:HG11	4:S:645:TRP:CD1	2.35	0.62
4:S:2532:PRO:O	4:S:2538:ARG:HG3	2.00	0.62
4:S:3190:LEU:HB3	4:S:3231:ILE:HB	1.82	0.62
4:S:3874:ARG:NH1	4:S:4117:LEU:O	2.20	0.62
5:T:287:LYS:HD3	6:U:310:ILE:HD11	1.81	0.62
6:U:9:ALA:O	6:U:131:HIS:N	2.33	0.62
6:U:597:ASN:HD22	6:U:615:GLN:HE22	1.45	0.62
1:K:52:ILE:HG23	1:K:66:TYR:HE2	1.65	0.61
4:F:289:ASN:HB3	4:F:292:SER:OG	2.00	0.61
4:F:1190:LEU:HD12	4:F:1193:LYS:HD3	1.79	0.61
4:F:2532:PRO:O	4:F:2538:ARG:HG3	1.99	0.61
5:G:173:ASP:HB2	5:G:214:SER:N	2.14	0.61
5:G:193:LEU:O	5:G:198:ILE:N	2.33	0.61
5:G:348:MET:HB2	5:G:397:LEU:HG	1.81	0.61
6:H:82:HIS:H	6:H:84:MET:HE1	1.64	0.61
4:A:1691:GLN:OE1	4:A:1745:LYS:NZ	2.32	0.61
4:A:2217:ASN:HA	4:A:2220:MET:HE2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2582:SER:HB2	4:A:2781:PRO:HD2	1.80	0.61
4:A:3232:ARG:NH1	4:A:3268:THR:OG1	2.32	0.61
4:A:3239:LYS:HE2	4:A:3262:LEU:HD13	1.80	0.61
4:A:3805:TRP:HZ3	4:A:3940:ILE:HG12	1.65	0.61
4:S:1283:GLY:H	4:S:1286:ALA:HB2	1.65	0.61
4:S:2173:ALA:HA	4:S:2215:LEU:HD11	1.81	0.61
5:T:93:ASP:OD1	5:T:101:ASN:N	2.32	0.61
5:T:404:ARG:HG3	7:V:33:DA:N1	2.15	0.61
2:M:785:ASN:ND2	2:M:787:GLN:O	2.33	0.61
1:N:151:LEU:HD13	1:O:152:LEU:HB2	1.80	0.61
4:F:175:TYR:OH	4:F:203:GLU:HB3	2.00	0.61
4:F:890:LYS:HZ2	4:F:906:PHE:HB3	1.65	0.61
4:F:896:VAL:HG23	4:F:903:PRO:HG2	1.82	0.61
4:F:2287:PRO:HD2	4:F:2331:MET:HA	1.82	0.61
4:F:2995:GLU:O	4:F:2999:LEU:HG	1.99	0.61
5:G:164:LYS:HZ2	5:G:198:ILE:HG13	1.65	0.61
4:A:36:ARG:NH2	4:A:40:GLN:OE1	2.33	0.61
4:S:123:CYS:HB3	4:S:171:LEU:HD12	1.81	0.61
4:S:2133:LEU:O	4:S:2170:GLN:NE2	2.29	0.61
5:T:32:TYR:O	5:T:252:ARG:NH2	2.33	0.61
3:Y:35:ALA:HA	3:Y:48:GLN:HA	1.82	0.61
2:M:798:ASP:OD1	2:M:815:ARG:NH1	2.33	0.61
3:Q:156:LEU:HG	3:Q:160:LYS:HE2	1.81	0.61
4:F:3512:VAL:O	4:F:3516:HIS:ND1	2.23	0.61
5:G:48:MET:O	5:G:60:PHE:N	2.33	0.61
4:A:1373:VAL:HG13	4:A:1376:LEU:HB3	1.81	0.61
4:A:2386:LEU:HD23	4:A:2418:LYS:HG3	1.82	0.61
4:A:3246:ALA:O	4:A:3251:ASN:N	2.33	0.61
4:S:1802:TYR:O	4:S:1806:ARG:NH1	2.33	0.61
4:S:2386:LEU:HB3	4:S:2418:LYS:HZ3	1.65	0.61
4:S:4055:ASN:HB2	4:S:4096:SER:H	1.65	0.61
5:T:249:LYS:HD2	6:U:427:MET:HB2	1.82	0.61
2:M:865:ILE:HG13	2:M:875:PHE:HE2	1.65	0.61
1:N:120:ALA:HB2	1:O:40:HIS:HB2	1.82	0.61
3:Q:147:GLN:HG2	3:R:213:ASN:HB3	1.80	0.61
4:F:1668:PHE:O	4:F:1672:PHE:HB2	2.01	0.61
4:F:2134:GLY:O	4:F:2170:GLN:NE2	2.32	0.61
4:F:2261:SER:O	4:F:2270:ASN:ND2	2.31	0.61
4:F:3295:GLU:HA	4:F:3298:LEU:HD12	1.82	0.61
5:G:275:ASN:O	6:H:431:ARG:NH1	2.33	0.61
6:H:521:GLU:N	6:H:521:GLU:OE1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:237:SER:HA	4:A:281:GLN:HA	1.83	0.61
4:A:1860:GLU:HG2	4:A:1862:THR:H	1.66	0.61
4:A:1890:HIS:HB3	4:A:1954:CYS:HB3	1.81	0.61
4:S:924:ARG:HH21	4:S:979:VAL:HB	1.65	0.61
4:S:993:HIS:CD2	4:S:2779:ASP:HB3	2.35	0.61
4:S:1756:PRO:HG3	4:S:1797:LEU:HD12	1.82	0.61
4:S:1766:LEU:HA	4:S:1773:VAL:HG21	1.82	0.61
4:S:2477:LEU:HD12	4:S:2502:ALA:HA	1.81	0.61
4:S:3384:HIS:O	4:S:3388:ALA:N	2.33	0.61
5:T:328:ILE:HB	6:U:502:ARG:HH22	1.64	0.61
2:M:730:PHE:O	2:M:733:LYS:NZ	2.29	0.61
1:N:57:ASP:HA	3:Q:112:LEU:HD22	1.82	0.61
1:O:22:VAL:HA	1:O:34:ILE:HG13	1.82	0.61
2:P:876:LYS:HD3	2:P:879:ARG:HD3	1.82	0.61
4:F:82:ARG:HA	4:F:85:ILE:HB	1.82	0.61
4:F:1092:GLU:HG3	4:F:1096:VAL:HG13	1.81	0.61
4:F:2806:LYS:NZ	4:F:2807:GLN:OE1	2.31	0.61
6:H:218:GLU:HA	6:H:221:LEU:HB2	1.83	0.61
6:H:234:LEU:HD13	6:H:237:PHE:HD2	1.65	0.61
5:B:362:LEU:HD11	6:C:268:LEU:HD21	1.81	0.61
4:S:168:ASP:HB3	4:S:170:VAL:HG22	1.81	0.61
4:S:196:LEU:HD13	4:S:227:LEU:HD11	1.83	0.61
5:T:490:LEU:HD21	6:U:314:PHE:HB2	1.82	0.61
6:U:447:THR:O	6:U:451:LEU:N	2.22	0.61
6:U:616:LEU:HD13	6:U:639:ILE:HG22	1.82	0.61
1:K:154:ASP:O	1:K:158:VAL:HG23	2.01	0.61
2:M:758:TYR:HA	2:M:764:SER:HA	1.81	0.61
2:P:692:ASN:ND2	5:G:290:ARG:O	2.32	0.61
3:Q:41:LEU:HD22	3:R:137:ARG:HA	1.81	0.61
3:Q:106:LEU:HD22	3:Q:121:PHE:HB2	1.83	0.61
4:F:264:ARG:N	7:I:41:DT:OP1	2.33	0.61
5:G:403:ARG:NH1	7:I:32:DA:OP1	2.34	0.61
6:H:700:GLU:HA	6:H:703:LYS:HE2	1.82	0.61
8:J:33:DA:H3'	8:J:34:DT:N3	2.15	0.61
4:A:407:VAL:HG12	4:A:441:MET:HB2	1.81	0.61
4:A:1375:THR:HA	4:A:1379:PRO:HA	1.83	0.61
4:A:2102:LYS:O	4:A:2106:ARG:HG2	2.00	0.61
4:A:3531:TYR:HB3	4:A:3535:ILE:HD12	1.81	0.61
5:B:274:TYR:HB3	5:B:276:LEU:HD22	1.81	0.61
4:S:1181:THR:OG1	4:S:1184:ARG:NH2	2.34	0.61
4:S:3086:LEU:HD21	4:S:3098:ARG:HH21	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3490:VAL:HB	4:S:3517:SER:HA	1.83	0.61
5:T:343:PRO:HA	5:T:401:THR:HG21	1.82	0.61
3:Y:18:LEU:HA	3:Y:96:SER:HA	1.81	0.61
1:K:179:ARG:HH22	2:M:808:SER:HB3	1.65	0.61
1:L:121:GLU:OE2	1:L:124:ARG:NH2	2.33	0.61
3:R:85:LYS:HD3	3:R:108:VAL:HG21	1.83	0.61
4:F:2837:LEU:HB3	4:F:2871:LEU:HD13	1.82	0.61
4:F:3261:GLU:HA	4:F:3264:LYS:HE3	1.83	0.61
4:F:3729:MET:HE2	4:F:3735:PRO:HB2	1.83	0.61
4:A:82:ARG:HG2	4:A:126:PRO:HB2	1.83	0.61
6:C:14:MET:HE1	6:C:135:PHE:HB2	1.83	0.61
4:S:2120:ARG:HB3	4:S:2160:TYR:HE1	1.65	0.61
4:S:2797:VAL:HA	4:S:2804:ILE:HD12	1.83	0.61
4:S:3300:VAL:HG23	4:S:3356:ALA:HB1	1.81	0.61
1:K:40:HIS:HB2	1:L:119:PRO:HG2	1.82	0.61
1:K:137:ASN:HA	1:L:139:ALA:N	2.10	0.61
4:F:1145:LEU:HB3	4:F:1165:LEU:HB2	1.80	0.61
4:F:1575:LEU:HG	4:F:1618:LEU:HD12	1.82	0.61
4:F:2443:MET:HE1	4:F:2476:ILE:HG12	1.81	0.61
6:H:164:PHE:CG	6:H:225:TYR:HB2	2.35	0.61
4:A:415:GLN:HG3	4:A:463:LYS:HD3	1.83	0.61
4:A:1817:GLN:NE2	4:A:1869:LYS:HD3	2.16	0.61
5:B:124:GLY:O	5:B:128:GLN:N	2.30	0.61
4:S:1105:VAL:HG11	4:S:1157:PHE:HB2	1.81	0.61
4:S:1294:VAL:HG12	4:S:1365:ASN:HD21	1.65	0.61
4:S:1716:GLN:HA	6:U:630:PRO:HB3	1.83	0.61
4:S:2225:HIS:ND1	4:S:2234:ASN:OD1	2.28	0.61
4:S:3287:ARG:HD3	4:S:3296:GLN:HA	1.81	0.61
4:S:3751:LEU:HD22	4:S:3803:ILE:HG12	1.82	0.61
5:T:48:MET:HG3	5:T:60:PHE:HB2	1.82	0.61
1:N:20:LEU:HD13	1:N:36:LEU:HB2	1.83	0.61
1:N:25:GLU:H	1:N:32:PHE:HB2	1.66	0.61
5:G:169:PHE:HB3	5:G:205:LEU:HD22	1.82	0.61
6:H:508:ILE:HG23	6:H:509:GLN:H	1.64	0.61
6:H:652:GLU:O	6:H:656:ASN:CB	2.48	0.61
7:I:36:DA:H2	8:J:23:DT:H3	1.49	0.61
4:A:1369:MET:HG3	4:A:1418:HIS:ND1	2.16	0.61
4:A:2391:GLY:O	4:A:2431:ARG:NH1	2.28	0.61
4:A:3963:LEU:HB3	4:A:4111:ALA:HB1	1.81	0.61
5:B:74:LYS:HD2	5:B:81:ASP:HB2	1.82	0.61
5:B:330:GLU:HG3	5:B:333:GLU:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1048:GLN:HA	4:S:1051:LYS:HZ2	1.65	0.61
4:S:1060:PHE:HE2	4:S:1095:LEU:HB3	1.66	0.61
4:S:1764:GLU:HA	4:S:1767:CYS:HB2	1.82	0.61
4:S:3226:ASP:N	4:S:3229:SER:HG	1.99	0.61
4:S:4086:ASP:HA	4:S:4089:ILE:HG12	1.83	0.61
5:T:289:TYR:N	5:T:294:GLU:O	2.34	0.61
6:U:328:GLU:HA	6:U:331:MET:HB3	1.82	0.61
6:U:328:GLU:O	6:U:332:LYS:N	2.32	0.61
6:U:441:SER:O	6:U:445:ALA:N	2.32	0.61
4:F:1456:LYS:HE2	4:F:1516:GLU:HB3	1.81	0.61
4:F:1471:GLN:H	4:F:1476:HIS:CD2	2.19	0.61
4:F:2348:GLN:OE1	4:F:2353:GLN:NE2	2.33	0.61
4:F:3018:SER:HA	4:F:3022:GLU:HB3	1.83	0.61
4:F:3165:THR:HA	4:F:3238:MET:HE1	1.83	0.61
5:G:469:LEU:HD21	5:G:514:MET:HB2	1.82	0.61
4:A:749:VAL:HG13	4:A:753:GLN:HE22	1.63	0.61
4:A:896:VAL:HB	4:A:903:PRO:HG2	1.83	0.61
4:A:3235:LYS:O	4:A:3239:LYS:HG2	2.00	0.61
4:A:3359:ILE:O	4:A:3363:SER:N	2.31	0.61
4:A:4055:ASN:HD21	4:A:4096:SER:HB3	1.66	0.61
6:C:400:ARG:NH1	10:E:32:DT:O3'	2.34	0.61
4:S:382:ASP:HB2	4:S:428:PRO:HG3	1.81	0.61
4:S:1166:LEU:HA	4:S:1198:LEU:HD22	1.83	0.61
4:S:2205:VAL:HG13	4:S:2208:ASP:H	1.65	0.61
4:S:2850:PHE:HD1	4:S:2855:VAL:HG11	1.66	0.61
4:S:3445:LEU:O	4:S:3448:GLU:HG2	2.01	0.61
4:S:3719:ILE:HA	4:S:3742:GLY:HA2	1.83	0.61
4:S:4054:ALA:HB3	4:S:4059:ILE:HD11	1.83	0.61
6:U:34:ALA:O	6:U:38:ILE:HG12	2.01	0.61
2:M:746:MET:O	2:M:751:LYS:NZ	2.33	0.60
2:M:837:ARG:HB2	2:M:841:LYS:HZ3	1.66	0.60
1:N:54:GLN:NE2	1:N:55:GLU:OE2	2.33	0.60
4:F:153:PHE:CE2	4:F:189:MET:HG2	2.37	0.60
4:F:649:PHE:O	4:F:653:LEU:HG	2.01	0.60
4:A:723:ASP:O	4:A:724:GLU:HG2	2.01	0.60
4:A:1493:PRO:HG2	4:A:1539:SER:HB3	1.82	0.60
4:A:3087:SER:HB3	4:A:3138:ILE:HG21	1.83	0.60
6:C:513:TRP:O	6:C:517:ASN:ND2	2.34	0.60
4:S:925:GLN:HA	4:S:2769:VAL:HG22	1.83	0.60
4:S:2264:ASP:HB3	4:S:2309:PHE:HZ	1.65	0.60
4:S:2464:HIS:ND1	4:S:2466:SER:OG	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2571:ASP:OD2	4:S:2787:HIS:NE2	2.34	0.60
4:S:3535:ILE:HG12	4:S:3796:MET:HA	1.83	0.60
4:S:3913:ILE:HD11	4:S:3988:LEU:HB2	1.82	0.60
5:T:304:ASN:ND2	5:T:307:THR:OG1	2.34	0.60
5:T:488:ARG:HG3	5:T:502:GLN:HA	1.82	0.60
6:U:165:LEU:HD13	6:U:201:GLN:HE22	1.66	0.60
6:U:508:ILE:O	6:U:509:GLN:HB2	2.00	0.60
1:N:102:LYS:HD2	3:Q:74:CYS:HB3	1.82	0.60
2:P:655:ILE:HD12	2:P:684:GLU:HB3	1.82	0.60
2:P:660:GLU:HA	2:P:687:GLY:HA2	1.83	0.60
3:R:27:VAL:HB	3:R:36:LEU:HD13	1.82	0.60
4:F:716:VAL:O	4:F:719:LYS:NZ	2.23	0.60
4:F:3444:ALA:HB2	4:F:3478:GLU:HG3	1.84	0.60
4:F:3914:SER:HA	4:F:3917:ILE:HD12	1.83	0.60
6:H:409:PHE:N	6:H:420:VAL:O	2.34	0.60
6:H:491:PHE:HA	6:H:494:LEU:HD12	1.83	0.60
6:H:636:ILE:HA	6:H:639:ILE:HG12	1.83	0.60
6:H:676:GLU:HG3	6:H:677:ILE:HD12	1.83	0.60
4:A:463:LYS:HA	4:A:544:ILE:HD13	1.82	0.60
4:A:571:SER:HA	4:A:574:LYS:HE3	1.82	0.60
4:A:962:TYR:HB3	4:A:966:PHE:CZ	2.36	0.60
4:A:1284:THR:HG22	4:A:1285:GLU:HG2	1.82	0.60
4:A:1438:GLY:N	4:A:1507:CYS:SG	2.74	0.60
4:A:2342:CYS:HB2	4:A:2374:LEU:HD21	1.82	0.60
5:B:148:TRP:NE1	5:B:152:ASN:HD21	1.99	0.60
5:B:272:GLY:N	5:B:369:TYR:O	2.33	0.60
4:S:304:THR:HG22	4:S:305:ASN:H	1.66	0.60
4:S:782:ARG:HA	4:S:785:MET:HE2	1.83	0.60
4:S:2139:PRO:O	4:S:2143:ARG:N	2.22	0.60
4:S:2825:THR:HG22	4:S:2828:GLU:HG2	1.82	0.60
4:S:4012:ASP:HB3	4:S:4067:GLY:HA2	1.82	0.60
5:T:399:ARG:HB2	5:T:408:PRO:HB2	1.83	0.60
1:K:84:TYR:HE1	1:K:99:LYS:HD3	1.66	0.60
2:M:700:VAL:HG23	2:M:718:HIS:HB2	1.83	0.60
1:O:21:GLN:HB3	1:O:35:THR:HB	1.81	0.60
4:F:1058:SER:HA	4:F:1061:LYS:HE2	1.82	0.60
4:F:2197:THR:H	4:F:2722:ARG:NH2	1.99	0.60
4:F:2223:VAL:HG22	4:F:2231:PHE:HE1	1.66	0.60
4:F:2223:VAL:HG21	4:F:2238:ILE:HD11	1.83	0.60
4:F:2414:GLN:OE1	4:F:2414:GLN:N	2.32	0.60
4:F:2526:SER:O	4:F:2538:ARG:NH1	2.25	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2967:GLU:O	4:F:2971:GLN:HG2	2.02	0.60
4:A:1155:ARG:O	4:A:3691:LYS:NZ	2.32	0.60
4:A:2967:GLU:HA	4:A:2970:LYS:HB2	1.83	0.60
4:A:3465:PHE:HD1	4:A:3468:LEU:HD23	1.65	0.60
4:A:3951:GLN:OE1	4:A:4066:LEU:N	2.34	0.60
4:S:387:GLU:O	4:S:391:ARG:HG2	2.02	0.60
4:S:2522:ARG:NH2	4:S:2564:GLU:OE1	2.34	0.60
4:S:3908:HIS:NE2	4:S:3962:ARG:O	2.30	0.60
5:T:365:SER:H	6:U:357:MET:HG3	1.64	0.60
6:U:45:GLN:HG3	6:U:86:PRO:HB2	1.83	0.60
6:U:261:ILE:HB	6:U:364:VAL:HG11	1.83	0.60
4:F:2521:ILE:HG12	4:F:2525:TRP:CD1	2.37	0.60
4:F:3979:LEU:O	4:F:3983:ILE:HG12	2.01	0.60
4:F:4055:ASN:HD22	4:F:4058:VAL:HG23	1.66	0.60
6:H:348:SER:N	6:H:388:ASP:O	2.30	0.60
6:H:395:TYR:CZ	6:H:397:TYR:HA	2.36	0.60
6:H:456:ALA:HB3	6:H:532:LYS:NZ	2.15	0.60
7:I:38:DT:H2''	7:I:39:DA:C8	2.37	0.60
4:A:1218:SER:HB3	4:A:1283:GLY:N	2.16	0.60
4:A:2439:ILE:O	4:A:2443:MET:N	2.32	0.60
4:A:2440:TYR:HA	4:A:2443:MET:HE3	1.82	0.60
4:A:3239:LYS:O	4:A:3243:ILE:HG13	2.01	0.60
4:S:1603:GLN:O	4:S:1607:GLU:N	2.33	0.60
4:S:2260:PHE:HB3	4:S:2273:GLY:HA3	1.82	0.60
4:S:3998:LEU:HD13	4:S:4047:ALA:HB1	1.82	0.60
5:T:278:GLN:HG3	8:W:27:DT:H5''	1.82	0.60
4:F:296:VAL:HA	4:F:299:LYS:HG2	1.83	0.60
4:F:1101:PHE:HA	4:F:1168:LEU:HD11	1.83	0.60
4:F:2244:CYS:HG	4:F:2245:TRP:CD1	2.20	0.60
4:F:3577:GLN:H	4:F:3683:CYS:HB3	1.66	0.60
4:F:3795:PRO:HA	4:F:3801:GLY:HA2	1.84	0.60
5:G:399:ARG:HA	5:G:410:PHE:HA	1.82	0.60
6:H:296:CYS:HB3	6:H:302:GLU:HB2	1.84	0.60
7:I:25:DA:P	7:I:25:DA:H8	2.24	0.60
7:I:29:DA:H1'	7:I:30:DA:C4	2.36	0.60
8:J:18:DA:H2'	8:J:18:DA:N3	2.16	0.60
4:A:41:GLU:O	4:A:45:SER:N	2.35	0.60
4:A:137:THR:O	4:A:141:SER:N	2.32	0.60
4:A:408:TYR:O	4:A:442:GLN:NE2	2.34	0.60
4:A:1769:GLU:HB2	4:A:1772:HIS:CD2	2.36	0.60
4:A:2873:PRO:HG3	4:A:2922:ARG:HG2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3344:GLU:HB3	4:A:3347:CYS:HB3	1.84	0.60
5:B:474:ARG:HB3	5:B:477:SER:HB3	1.82	0.60
6:C:44:ARG:HB3	6:C:238:LYS:HB3	1.84	0.60
4:S:1357:LYS:HG3	4:S:1361:LYS:NZ	2.17	0.60
4:S:1720:ALA:HA	6:U:634:LYS:HZ2	1.66	0.60
4:S:1769:GLU:H	4:S:1772:HIS:CE1	2.20	0.60
4:S:2188:GLU:HA	4:S:2728:LEU:HD11	1.84	0.60
4:S:3916:TRP:HB2	4:S:3961:PHE:HB3	1.83	0.60
4:S:3952:PHE:N	4:S:4069:GLU:H	1.99	0.60
5:T:39:ILE:HD13	5:T:84:ALA:HB3	1.83	0.60
5:T:360:HIS:CD2	5:T:443:LYS:HA	2.37	0.60
4:F:24:ARG:HG3	4:F:25:CYS:H	1.67	0.60
4:F:272:LEU:HA	4:F:275:PHE:CD2	2.37	0.60
4:F:2298:GLU:HA	4:F:2301:GLN:HB3	1.82	0.60
4:F:2510:LEU:HG	4:F:2557:LEU:HD13	1.83	0.60
4:F:2749:ALA:O	4:F:2753:ARG:HG2	2.02	0.60
4:F:3581:PRO:HG2	4:F:3632:PHE:HD2	1.65	0.60
4:F:3738:ILE:O	4:F:3750:PHE:N	2.26	0.60
5:G:95:ASN:HB2	5:G:97:VAL:HG12	1.82	0.60
6:H:104:GLN:O	6:H:141:ARG:NH2	2.34	0.60
6:H:296:CYS:HA	6:H:304:GLU:HA	1.82	0.60
7:I:26:DA:H1'	8:J:32:DT:O2	2.01	0.60
4:A:138:PHE:O	4:A:142:ARG:HG2	2.02	0.60
4:A:2931:ARG:HA	4:A:2936:TYR:HE1	1.67	0.60
4:A:3243:ILE:HG12	4:A:3255:ALA:O	2.02	0.60
5:B:329:LEU:HD22	6:C:276:TRP:HH2	1.67	0.60
6:C:41:PHE:O	6:C:45:GLN:HG2	1.99	0.60
6:C:251:LEU:HD22	6:C:257:LEU:HD23	1.84	0.60
4:S:490:ILE:HG23	4:S:523:THR:HA	1.83	0.60
4:S:645:TRP:HB3	4:S:649:PHE:HB3	1.83	0.60
4:S:1254:LEU:HD21	4:S:1330:TYR:HA	1.83	0.60
4:S:2158:ARG:HH2	4:S:2722:ARG:HE	1.46	0.60
5:T:261:LEU:HA	5:T:345:LEU:HB2	1.82	0.60
5:T:281:LEU:HD22	8:W:28:DA:H62	1.67	0.60
5:T:351:LYS:HG2	5:T:437:LEU:HD21	1.83	0.60
6:U:107:PHE:HB2	6:U:146:GLN:HB3	1.82	0.60
1:L:173:GLU:OE1	2:M:814:ARG:NH2	2.34	0.60
1:N:89:SER:HG	1:N:92:SER:HG	1.50	0.60
4:F:1528:LEU:O	4:F:1532:LEU:HB2	2.01	0.60
4:F:3313:SER:HB2	4:F:3316:LEU:HA	1.82	0.60
4:F:3781:CYS:O	4:F:3785:ALA:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:246:VAL:HB	5:G:249:LYS:HZ1	1.66	0.60
6:H:36:LYS:HE3	6:H:227:PHE:HE1	1.66	0.60
6:H:423:GLN:NE2	6:H:424:LEU:O	2.34	0.60
4:A:20:SER:HB3	4:A:66:LEU:HD23	1.82	0.60
4:A:1175:HIS:HA	4:A:1229:CYS:HA	1.82	0.60
4:A:2529:THR:OG1	4:A:2530:ARG:NH1	2.35	0.60
5:B:147:LEU:HB2	5:B:189:LYS:HD2	1.84	0.60
6:C:297:LEU:N	6:C:303:THR:O	2.34	0.60
4:S:1512:SER:HA	4:S:1515:LEU:HD12	1.84	0.60
4:S:1612:LYS:HD3	4:S:1656:ASP:HA	1.83	0.60
4:S:1662:ASN:HB3	4:S:1698:PHE:HB3	1.84	0.60
4:S:1881:TYR:OH	4:S:1955:VAL:N	2.34	0.60
4:S:2271:SER:HA	4:S:2274:ILE:HD12	1.84	0.60
4:S:2379:MET:HE2	4:S:2404:ARG:HH21	1.67	0.60
5:T:213:ILE:O	5:T:218:ARG:NH2	2.35	0.60
5:T:469:LEU:HB3	6:U:345:PHE:HB2	1.84	0.60
6:U:666:VAL:HG11	6:U:678:VAL:HG11	1.83	0.60
1:K:175:ASP:OD1	1:K:176:LEU:N	2.35	0.60
1:K:191:ILE:HG21	1:L:190:LYS:HE3	1.83	0.60
1:L:120:ALA:HA	1:L:123:ILE:HD12	1.83	0.60
3:R:106:LEU:HB3	3:R:121:PHE:HB2	1.83	0.60
4:F:421:LEU:HB3	4:F:471:LYS:HZ3	1.66	0.60
4:F:885:ALA:O	4:F:888:ARG:NH1	2.34	0.60
4:F:1069:HIS:HB3	4:F:1074:LYS:HE3	1.83	0.60
4:F:1686:LEU:HB3	4:F:1738:ASN:HB3	1.84	0.60
4:F:2776:ARG:HH21	4:F:2782:ASP:HB2	1.67	0.60
4:F:3227:ILE:HG23	4:F:3230:LEU:HD12	1.83	0.60
7:I:19:DC:H1'	7:I:20:DT:C2	2.37	0.60
4:A:1390:GLN:O	4:A:1394:HIS:HB2	2.02	0.60
4:A:1457:GLN:HA	4:A:1460:ARG:HD3	1.82	0.60
4:A:3254:LEU:HA	4:A:3258:LEU:HD13	1.83	0.60
4:A:3285:HIS:O	4:A:3289:ARG:NH1	2.34	0.60
4:A:3880:ALA:HA	4:A:3966:GLN:HE22	1.65	0.60
4:S:181:LEU:HB2	4:S:230:LEU:HD21	1.83	0.60
5:T:173:ASP:HA	5:T:213:ILE:HA	1.83	0.60
5:T:473:TYR:HE2	6:U:348:SER:HA	1.65	0.60
1:N:176:LEU:HD11	1:O:173:GLU:HG3	1.82	0.60
1:O:56:ALA:HA	1:O:63:LYS:HB2	1.84	0.60
3:R:142:MET:HB3	3:R:221:VAL:HG21	1.84	0.60
4:F:3126:LEU:O	4:F:3130:GLN:NE2	2.35	0.60
4:F:3945:ALA:H	4:F:3948:SER:HG	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:480:ASN:OD1	5:G:483:LEU:N	2.31	0.60
6:H:59:PHE:HB3	6:H:77:ILE:HG13	1.84	0.60
4:A:1239:PRO:HB3	4:A:1289:SER:HB2	1.83	0.60
4:A:3765:GLU:HG3	4:A:3793:VAL:H	1.67	0.60
4:A:3820:MET:HG2	4:A:3825:LYS:HG3	1.83	0.60
6:C:488:GLN:HB3	6:C:509:GLN:HG2	1.84	0.60
5:T:52:GLN:CD	5:T:59:PRO:HG3	2.27	0.60
5:T:174:ASN:HB2	5:T:215:LEU:HD12	1.84	0.60
5:T:359:HIS:HB3	6:U:420:VAL:HG12	1.84	0.60
4:F:106:GLU:O	4:F:110:THR:HG23	2.01	0.60
4:F:712:LYS:HE3	4:F:744:ASP:HB3	1.84	0.60
4:F:1031:ARG:HA	4:F:1034:ARG:HG2	1.84	0.60
4:F:2866:ALA:O	4:F:2899:ARG:NH1	2.35	0.60
4:F:3974:MET:HG3	4:F:3976:GLU:H	1.66	0.60
6:H:663:GLN:HG2	6:H:707:PRO:HD2	1.82	0.60
4:A:204:LEU:O	4:A:208:MET:HB2	2.02	0.60
4:A:269:SER:HB3	4:A:308:LEU:HD23	1.82	0.60
4:A:3194:GLU:HG3	4:A:3195:GLU:HG2	1.83	0.60
4:A:3244:ASP:OD1	4:A:3282:ARG:NH1	2.35	0.60
4:A:4017:GLU:HA	4:A:4020:MET:HE2	1.84	0.60
5:B:297:LYS:HD3	5:B:299:LYS:HZ1	1.67	0.60
5:B:440:ALA:HA	6:C:267:ILE:HA	1.83	0.60
4:S:108:LYS:HD2	4:S:149:ILE:HG22	1.83	0.60
5:T:101:ASN:ND2	5:T:140:ASP:O	2.35	0.60
5:T:258:ARG:NH2	7:V:35:DT:OP2	2.34	0.60
7:V:21:DA:N6	8:W:35:DT:O4	2.35	0.60
1:K:139:ALA:C	1:K:141:ASN:H	2.09	0.59
2:P:654:LYS:N	2:P:660:GLU:OE2	2.35	0.59
4:F:993:HIS:O	4:F:1043:GLN:NE2	2.35	0.59
4:F:1524:LEU:HD12	4:F:1527:ARG:HH11	1.67	0.59
4:F:1776:GLU:O	4:F:1779:GLN:NE2	2.34	0.59
4:F:3355:LYS:HA	4:F:3358:ARG:HD3	1.84	0.59
5:G:300:THR:HA	6:H:292:GLU:O	2.02	0.59
6:H:334:LYS:NZ	6:H:400:ARG:O	2.23	0.59
4:A:86:LEU:HD13	4:A:89:LEU:HD12	1.84	0.59
4:A:1055:ASN:HA	4:A:1062:ARG:HH12	1.65	0.59
5:B:121:GLN:OE1	5:B:130:ARG:NH2	2.35	0.59
4:S:3151:LEU:HG	4:S:3193:ILE:HA	1.83	0.59
6:U:263:ALA:HA	6:U:364:VAL:HA	1.84	0.59
6:U:273:LYS:HG2	7:V:23:DT:C2	2.37	0.59
1:K:185:ASN:ND2	2:M:767:ILE:O	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1921:ASP:OD1	4:F:1922:ALA:N	2.35	0.59
4:F:2353:GLN:HA	4:F:2356:MET:HB3	1.83	0.59
4:F:3545:THR:O	4:F:3549:HIS:ND1	2.31	0.59
6:H:343:LEU:N	6:H:392:ILE:O	2.22	0.59
4:A:1604:SER:HA	4:A:1607:GLU:HG2	1.84	0.59
4:A:2429:ASP:O	4:A:2433:LYS:HB2	2.02	0.59
6:C:80:HIS:HD2	6:C:97:LYS:HD2	1.67	0.59
4:S:275:PHE:O	4:S:279:ALA:N	2.35	0.59
4:S:675:ARG:HG3	4:S:735:SER:HB2	1.84	0.59
4:S:3620:PRO:O	4:S:3630:ARG:NH1	2.35	0.59
4:S:3949:ALA:HB3	4:S:4064:LEU:HA	1.84	0.59
1:N:40:HIS:HB2	1:O:119:PRO:HB2	1.83	0.59
3:Q:151:ARG:HH12	3:Q:190:LEU:HD11	1.67	0.59
4:F:2181:GLY:H	4:F:2185:MET:HE1	1.67	0.59
4:F:2281:MET:HE1	4:F:2329:TYR:HB2	1.84	0.59
4:F:3459:ASN:O	4:F:3463:LEU:N	2.29	0.59
4:F:3831:ASP:HB3	4:F:3832:PRO:HD3	1.84	0.59
4:A:786:GLN:HG3	4:A:789:TYR:CZ	2.37	0.59
4:A:2460:GLU:OE1	4:A:2460:GLU:N	2.30	0.59
4:A:3273:LEU:HB3	4:A:3315:TYR:CG	2.38	0.59
4:A:3626:GLY:O	4:A:3630:ARG:N	2.31	0.59
4:A:3908:HIS:HA	4:A:3911:ILE:HG22	1.84	0.59
5:B:262:LYS:HA	5:B:268:VAL:HG12	1.83	0.59
9:D:40:DT:H1'	10:E:18:DA:H4'	1.83	0.59
4:S:528:VAL:HB	4:S:532:ARG:HD3	1.84	0.59
1:K:181:ILE:HB	2:M:774:LEU:HB2	1.83	0.59
2:M:720:VAL:HB	2:M:745:HIS:HB3	1.84	0.59
4:F:527:TYR:HB2	4:F:629:PHE:CZ	2.37	0.59
4:F:1937:ARG:O	4:F:1941:HIS:ND1	2.33	0.59
4:F:2362:VAL:HA	4:F:2396:LEU:HD11	1.85	0.59
4:F:2534:ASN:HD21	4:F:2536:LEU:HB3	1.67	0.59
4:F:3011:LEU:HD11	4:F:3047:SER:HB3	1.83	0.59
4:F:3809:THR:HA	4:F:3931:ALA:HA	1.83	0.59
6:H:653:GLN:O	6:H:657:ASN:ND2	2.36	0.59
4:A:1151:ARG:HB2	4:A:1163:LEU:HG	1.84	0.59
4:A:1448:LEU:HD23	4:A:1510:LEU:HD13	1.84	0.59
4:A:1751:GLU:HA	4:A:1785:ILE:HD11	1.85	0.59
4:A:2851:PHE:HB3	4:A:2854:PHE:HB3	1.84	0.59
6:C:161:LEU:HD23	6:C:212:MET:HB3	1.84	0.59
4:S:2353:GLN:NE2	4:S:2363:CYS:SG	2.75	0.59
4:S:3915:HIS:HA	4:S:3918:LEU:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:534:LEU:HD13	4:F:564:LEU:HD22	1.83	0.59
4:F:2737:GLU:HB2	4:F:2740:SER:OG	2.02	0.59
4:F:3265:GLU:C	4:F:3272:TRP:HD1	2.11	0.59
6:H:265:LYS:HA	6:H:362:LEU:HD13	1.84	0.59
7:I:42:DA:H2 <sup>7</sup>	7:I:43:DT:OP1	2.03	0.59
4:A:2085:MET:N	4:A:2188:GLU:OE2	2.36	0.59
4:A:2959:ALA:O	4:A:2963:SER:N	2.35	0.59
4:A:3236:PHE:CE1	4:A:3259:LEU:HD11	2.37	0.59
5:B:164:LYS:O	5:B:199:PHE:N	2.32	0.59
4:S:933:LEU:HG	4:S:937:MET:HE2	1.84	0.59
4:S:2331:MET:HG2	4:S:2334:LYS:HG2	1.85	0.59
4:S:3179:TRP:CD1	4:S:3245:SER:HG	2.19	0.59
6:U:686:ILE:HD12	6:U:702:LYS:HZ2	1.67	0.59
4:F:1771:GLN:HA	4:F:1775:GLU:HG3	1.84	0.59
4:F:2273:GLY:O	4:F:2277:LEU:HG	2.03	0.59
4:F:2732:PHE:HD1	4:F:2734:ARG:HH11	1.51	0.59
4:F:3058:ASP:OD1	4:F:3059:GLN:N	2.35	0.59
4:F:3243:ILE:HG22	4:F:3247:ARG:HE	1.66	0.59
4:F:3270:ASP:HA	4:F:3273:LEU:HD12	1.83	0.59
5:G:444:ARG:NE	6:H:242:ARG:O	2.36	0.59
6:C:49:GLU:O	6:C:51:LYS:NZ	2.33	0.59
4:S:396:PHE:O	4:S:399:GLN:NE2	2.36	0.59
4:S:730:LEU:HD22	4:S:755:ALA:HB2	1.84	0.59
4:S:1419:LEU:HG	4:S:1467:ILE:HD13	1.85	0.59
4:S:3505:LEU:HD12	4:S:3508:LYS:HB2	1.85	0.59
5:T:482:VAL:HG22	6:U:332:LYS:HZ3	1.67	0.59
1:O:62:GLU:OE1	1:O:65:LYS:NZ	2.35	0.59
3:Q:92:GLU:HA	3:Q:110:SER:HB2	1.85	0.59
3:R:14:ALA:HB3	3:R:82:PRO:HD2	1.85	0.59
4:F:269:SER:OG	4:F:273:ARG:NH2	2.35	0.59
4:F:341:PHE:HB3	4:F:369:PHE:CE2	2.37	0.59
4:F:1071:ASN:HB3	4:F:1074:LYS:HG3	1.84	0.59
4:F:2464:HIS:O	4:F:2466:SER:N	2.35	0.59
4:F:2964:ASP:HA	4:F:3252:PHE:HB2	1.85	0.59
4:F:3411:ASP:HA	4:F:3414:MET:HE2	1.84	0.59
4:F:3760:GLN:NE2	4:F:3942:PHE:O	2.36	0.59
5:G:47:ALA:HB1	5:G:171:ASN:H	1.68	0.59
4:A:892:LEU:HD22	4:A:940:PHE:HE2	1.68	0.59
4:A:3531:TYR:HD2	4:A:3793:VAL:HG11	1.67	0.59
4:A:3538:GLU:OE2	4:A:3799:ARG:NH1	2.36	0.59
4:A:3603:LYS:N	4:A:3658:ASP:OD2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3740:ILE:O	4:A:3748:HIS:N	2.35	0.59
4:S:305:ASN:O	4:S:308:LEU:N	2.31	0.59
4:S:726:LEU:HD11	4:S:758:LEU:HD13	1.85	0.59
4:S:2170:GLN:HA	4:S:2173:ALA:HB3	1.83	0.59
4:S:2301:GLN:HA	4:S:2304:VAL:HG22	1.84	0.59
4:S:3048:LYS:HA	4:S:3051:LEU:HD12	1.83	0.59
4:S:3091:LEU:HD13	4:S:3142:ILE:HG13	1.84	0.59
6:U:253:ILE:HG12	6:U:345:PHE:HE1	1.66	0.59
6:U:596:GLU:OE2	6:U:599:ARG:NH1	2.35	0.59
1:N:41:SER:HA	1:N:119:PRO:HB3	1.83	0.59
4:F:469:ALA:HA	4:F:475:LEU:HB2	1.84	0.59
4:F:1725:GLN:HE22	4:F:1727:ARG:HH21	1.50	0.59
4:F:2387:PRO:HG2	5:G:155:SER:HB2	1.85	0.59
4:F:2521:ILE:HA	4:F:2524:PHE:HB3	1.85	0.59
4:F:2776:ARG:NH2	4:F:2782:ASP:HB2	2.18	0.59
4:F:3749:PRO:HB2	4:F:3805:TRP:HD1	1.68	0.59
5:G:85:VAL:HG23	5:G:105:LEU:HB3	1.85	0.59
4:A:1820:VAL:O	4:A:1824:LEU:N	2.35	0.59
4:A:2087:GLU:HG3	4:A:2088:LEU:HD22	1.85	0.59
4:A:2931:ARG:HH22	4:A:2997:ALA:HA	1.68	0.59
4:A:3240:MET:HA	4:A:3243:ILE:HD12	1.85	0.59
4:A:3554:PHE:O	4:A:3558:ILE:HG12	2.02	0.59
4:A:3662:ILE:HA	4:A:3665:MET:SD	2.43	0.59
4:A:3719:ILE:HG23	4:A:3740:ILE:HG21	1.84	0.59
4:A:3862:ALA:HB2	4:A:4076:ASP:HB3	1.84	0.59
5:B:316:THR:O	5:B:331:LYS:NZ	2.34	0.59
4:S:274:LEU:O	4:S:278:HIS:ND1	2.35	0.59
4:S:672:ILE:HD12	4:S:675:ARG:HE	1.66	0.59
4:S:1357:LYS:HB2	4:S:1410:PRO:HD2	1.85	0.59
4:S:2197:THR:HA	4:S:2245:TRP:HE1	1.68	0.59
4:S:3764:VAL:HG11	4:S:3945:ALA:HB1	1.85	0.59
3:Q:1:MET:N	3:Q:50:ASP:OD1	2.30	0.59
4:F:534:LEU:HB3	4:F:564:LEU:HD13	1.84	0.59
4:F:579:LEU:HD12	4:F:581:LEU:HD21	1.85	0.59
4:F:890:LYS:NZ	4:F:892:LEU:O	2.36	0.59
4:F:2253:TYR:HD2	4:F:2291:GLN:HE21	1.50	0.59
4:F:2304:VAL:O	4:F:2307:MET:HB2	2.01	0.59
4:F:3243:ILE:HG21	4:F:3279:SER:HB3	1.85	0.59
4:A:2584:CYS:SG	4:A:2779:ASP:N	2.76	0.59
4:S:386:VAL:HG13	4:S:431:TYR:HE2	1.68	0.59
4:S:1795:VAL:HA	4:S:1798:LEU:HD12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:277:VAL:HG11	6:U:431:ARG:HE	1.67	0.59
6:U:74:TYR:HA	6:U:109:ASP:HB3	1.84	0.59
7:V:41:DT:H2''	7:V:42:DA:H5''	1.85	0.59
3:Y:10:MET:HA	3:Y:221:VAL:HG23	1.82	0.59
3:Y:44:VAL:HG21	3:Y:131:VAL:HG13	1.85	0.59
4:F:327:VAL:HA	4:F:330:ASN:OD1	2.03	0.59
4:F:1723:PRO:O	4:F:1768:ARG:NH1	2.36	0.59
4:F:1765:VAL:O	4:F:1768:ARG:NE	2.27	0.59
4:F:1849:ASP:OD1	4:F:1850:VAL:N	2.35	0.59
4:F:2235:LEU:HA	4:F:2238:ILE:HD12	1.83	0.59
4:F:2443:MET:HE1	4:F:2476:ILE:HG23	1.85	0.59
6:H:138:LEU:HB2	6:H:201:GLN:HA	1.85	0.59
4:A:393:LYS:HG3	4:A:394:GLN:HG3	1.85	0.59
4:A:2827:SER:HA	4:A:2830:ASN:HD21	1.67	0.59
4:A:3856:MET:O	4:A:3860:LYS:HG2	2.03	0.59
4:A:3962:ARG:NH2	4:A:4125:GLU:O	2.28	0.59
6:C:512:ILE:O	6:C:516:LEU:N	2.35	0.59
4:S:1872:GLY:O	4:S:1876:ILE:HG12	2.03	0.59
4:S:2514:ASN:HB3	4:S:2517:LEU:HB2	1.85	0.59
4:S:2931:ARG:HB2	4:S:2939:LEU:HD21	1.85	0.59
4:S:3174:ASP:HB3	4:S:3178:ILE:HD13	1.84	0.59
4:S:3318:LYS:HE2	4:S:3326:GLN:HB2	1.85	0.59
5:T:36:ASP:O	5:T:82:LEU:N	2.32	0.59
5:T:352:PRO:HG3	5:T:394:VAL:HG22	1.83	0.59
1:K:179:ARG:HB3	2:M:805:TRP:CE2	2.37	0.58
2:M:678:LEU:HD23	2:M:681:ARG:HH21	1.68	0.58
2:P:865:ILE:N	2:P:889:LEU:O	2.26	0.58
4:F:681:LYS:NZ	4:F:739:ASN:OD1	2.37	0.58
4:F:1261:LEU:HD21	4:F:1337:VAL:HA	1.85	0.58
4:F:1455:CYS:HA	4:F:1458:LEU:HD12	1.84	0.58
4:F:3324:ARG:NH2	4:F:3389:VAL:O	2.35	0.58
6:H:384:LEU:HA	6:H:389:MET:HB2	1.84	0.58
4:A:538:ASP:HA	4:A:541:MET:HE2	1.85	0.58
4:A:1178:ARG:CZ	4:A:1183:CYS:HB3	2.33	0.58
4:A:1218:SER:HB3	4:A:1283:GLY:H	1.68	0.58
4:A:1254:LEU:HG	4:A:1333:SER:HB3	1.85	0.58
4:A:2382:VAL:O	4:A:2386:LEU:N	2.34	0.58
4:A:3576:ASP:OD2	4:A:3577:GLN:NE2	2.36	0.58
5:B:85:VAL:N	5:B:106:GLN:O	2.26	0.58
5:B:443:LYS:HB2	6:C:268:LEU:HB2	1.85	0.58
6:C:406:GLY:HA2	6:C:423:GLN:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:932:GLU:OE2	4:S:2772:TYR:N	2.34	0.58
4:S:1001:PHE:HE2	4:S:1049:GLN:HA	1.67	0.58
4:S:1082:PHE:CB	4:S:1129:ASP:H	2.00	0.58
4:S:1111:LEU:O	4:S:1115:HIS:ND1	2.34	0.58
4:S:3783:GLN:HB3	4:S:3986:HIS:CD2	2.38	0.58
6:U:65:ASP:HB2	6:U:78:THR:HA	1.84	0.58
1:K:142:GLU:O	1:K:146:LYS:HG2	2.03	0.58
1:L:18:HIS:HB3	1:L:36:LEU:HD11	1.86	0.58
1:N:139:ALA:O	1:N:142:GLU:HG2	2.03	0.58
1:N:187:LYS:HB3	1:O:187:LYS:HB3	1.86	0.58
3:Q:106:LEU:O	3:Q:120:ASN:HA	2.03	0.58
3:R:18:LEU:HB3	3:R:20:GLU:H	1.69	0.58
4:F:890:LYS:NZ	4:F:906:PHE:HB3	2.18	0.58
4:F:1279:LEU:HB3	4:F:1356:TRP:HE1	1.68	0.58
5:G:94:LYS:O	5:G:104:VAL:N	2.26	0.58
5:G:278:GLN:CD	6:H:431:ARG:HE	2.10	0.58
7:I:40:DT:H2'	7:I:41:DT:C2	2.38	0.58
4:A:35:ILE:HB	4:A:84:GLU:HG3	1.85	0.58
4:A:345:PHE:O	4:A:349:ILE:HG22	2.02	0.58
4:A:392:CYS:HB2	4:A:434:VAL:HG21	1.84	0.58
4:A:579:LEU:HD22	4:A:619:ASP:HB3	1.84	0.58
4:A:1519:PHE:HB3	4:A:1570:GLU:HB2	1.86	0.58
4:A:2531:LEU:HD21	4:A:2545:LEU:HD22	1.85	0.58
4:A:3137:GLU:HA	4:A:3189:PHE:CZ	2.38	0.58
4:A:3454:LEU:HD21	4:A:3462:ARG:N	2.18	0.58
5:B:485:GLN:NE2	5:B:499:GLU:OE2	2.37	0.58
5:B:511:VAL:HG22	5:B:515:ASN:HB3	1.84	0.58
4:S:440:VAL:HG13	4:S:441:MET:SD	2.43	0.58
4:S:674:VAL:HG21	4:S:736:LEU:HD22	1.84	0.58
4:S:1158:PRO:HG2	4:S:1159:PRO:HD3	1.84	0.58
4:S:2395:THR:HA	4:S:2398:LEU:HD12	1.86	0.58
4:S:2569:SER:HB3	4:S:2572:TYR:HB2	1.84	0.58
4:S:3091:LEU:HD11	4:S:3145:ILE:HG13	1.85	0.58
5:T:493:LEU:HB3	6:U:323:PHE:HZ	1.68	0.58
3:Q:44:VAL:HG23	3:Q:135:LEU:HG	1.85	0.58
4:F:1407:LYS:NZ	4:F:1461:ALA:O	2.36	0.58
5:G:463:LYS:HG2	6:H:387:LEU:HG	1.84	0.58
6:H:247:TRP:NE1	6:H:397:TYR:O	2.35	0.58
4:A:1087:ARG:HA	4:A:1090:ARG:HH12	1.68	0.58
4:A:1194:PHE:HA	4:A:1197:LEU:HB2	1.85	0.58
4:A:1622:ILE:HA	4:A:1625:HIS:CE1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:256:LEU:HD23	9:D:32:DA:C4	2.38	0.58
6:C:221:LEU:HD13	6:C:224:ILE:HD12	1.86	0.58
4:S:624:ILE:O	4:S:628:GLU:HG2	2.03	0.58
4:S:708:VAL:O	4:S:712:LYS:HG2	2.03	0.58
5:T:357:LYS:O	5:T:358:LYS:NZ	2.36	0.58
5:T:481:PRO:HA	5:T:485:GLN:H	1.68	0.58
1:O:166:VAL:HG22	2:P:847:PHE:HD2	1.67	0.58
4:F:1151:ARG:HG3	4:F:1163:LEU:HD12	1.84	0.58
4:F:1568:ASN:CB	4:F:1600:MET:HE3	2.32	0.58
4:F:3386:SER:O	4:F:3390:GLN:NE2	2.36	0.58
4:F:3659:PHE:HA	4:F:3662:ILE:HD12	1.85	0.58
4:A:1328:GLU:HB3	4:A:1329:ARG:HH21	1.68	0.58
4:A:1887:ASP:O	4:A:1890:HIS:NE2	2.37	0.58
4:A:3302:LYS:HG2	4:A:3330:LEU:HD11	1.85	0.58
4:A:3338:ALA:HB1	4:A:3378:TYR:CE1	2.38	0.58
4:A:3525:TYR:HD2	4:A:3712:LEU:HB2	1.68	0.58
4:S:1635:LYS:HD3	4:S:1683:LYS:HG2	1.85	0.58
4:S:2170:GLN:N	4:S:2170:GLN:OE1	2.34	0.58
4:S:2560:ASN:ND2	4:S:2799:GLN:OE1	2.35	0.58
4:S:3022:GLU:OE1	4:S:3036:TYR:N	2.35	0.58
4:S:3184:THR:OG1	4:S:3238:MET:HE1	2.03	0.58
4:S:3246:ALA:HB3	4:S:3254:LEU:HD12	1.85	0.58
4:S:3462:ARG:HH22	4:S:3497:SER:N	2.01	0.58
4:S:3870:SER:O	4:S:3874:ARG:NE	2.25	0.58
5:T:48:MET:HE3	5:T:59:PRO:C	2.28	0.58
5:T:285:PRO:HA	6:U:314:PHE:HA	1.86	0.58
5:T:481:PRO:HD3	5:T:507:THR:OG1	2.03	0.58
2:M:694:GLY:N	2:M:697:THR:OG1	2.36	0.58
4:F:1532:LEU:HD21	4:F:1560:TYR:HB2	1.84	0.58
4:F:1538:LEU:O	4:F:1552:HIS:ND1	2.26	0.58
4:F:2233:HIS:O	4:F:2236:GLU:HG3	2.03	0.58
4:F:3413:TYR:HB2	4:F:3453:ALA:HB2	1.84	0.58
4:F:3644:PHE:CZ	4:F:3659:PHE:HB3	2.39	0.58
4:A:960:GLN:HG3	4:A:963:LYS:HE3	1.85	0.58
4:A:2209:GLU:HA	4:A:2248:CYS:HB3	1.85	0.58
4:A:2582:SER:HB3	4:A:2780:LEU:HD22	1.83	0.58
4:A:3004:HIS:HB3	4:A:3176:MET:HE1	1.85	0.58
4:A:3875:GLU:O	4:A:3965:ARG:NH1	2.36	0.58
4:A:3951:GLN:HB2	4:A:4070:LYS:HE2	1.84	0.58
4:A:4098:LEU:HB3	4:A:4102:THR:OG1	2.02	0.58
5:B:392:LYS:HB2	6:C:458:ILE:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:16:GLN:NE2	4:S:66:LEU:HD22	2.19	0.58
4:S:939:MET:HE1	4:S:2785:ILE:HG23	1.86	0.58
4:S:2508:GLN:HA	4:S:2550:ILE:HD11	1.85	0.58
4:S:3040:TYR:HB3	4:S:3044:MET:HE3	1.85	0.58
4:S:3480:LEU:HA	4:S:3483:MET:HE2	1.85	0.58
5:T:45:SER:HB2	5:T:141:TYR:HB3	1.85	0.58
5:T:147:LEU:HA	5:T:150:CYS:HB3	1.84	0.58
6:U:442:LYS:O	6:U:450:GLN:NE2	2.35	0.58
4:F:20:SER:HB2	4:F:63:PHE:HE1	1.68	0.58
4:F:323:VAL:HA	4:F:326:MET:HG2	1.84	0.58
4:F:933:LEU:HB2	4:F:2793:PRO:HB2	1.86	0.58
4:F:3276:TRP:CZ2	4:F:3306:LEU:HD12	2.38	0.58
4:F:3575:LEU:HA	4:F:3681:LYS:C	2.29	0.58
4:F:3603:LYS:HZ2	4:F:3646:LYS:HA	1.68	0.58
4:F:3791:TYR:HB2	4:F:3938:ILE:HG12	1.86	0.58
5:G:426:GLN:HE21	5:G:429:PRO:HA	1.68	0.58
4:A:1724:MET:HE1	4:A:1768:ARG:HH11	1.68	0.58
4:A:3786:LEU:HD22	4:A:3990:ALA:HB2	1.86	0.58
5:B:463:LYS:HG2	6:C:387:LEU:HD11	1.85	0.58
5:B:531:PRO:HB2	5:B:534:TYR:HA	1.84	0.58
6:C:341:SER:O	6:C:394:ARG:N	2.37	0.58
4:S:359:LEU:O	4:S:363:ILE:HG12	2.03	0.58
4:S:489:ARG:O	4:S:493:LYS:NZ	2.33	0.58
4:S:1258:ASP:HA	4:S:1261:LEU:HD12	1.86	0.58
4:S:2328:ARG:NH1	4:S:2329:TYR:OH	2.36	0.58
4:S:2443:MET:SD	4:S:2476:ILE:HG23	2.44	0.58
4:S:3531:TYR:HB2	4:S:3532:PRO:HD3	1.84	0.58
2:M:887:LYS:HG2	2:M:911:ILE:HG23	1.85	0.58
1:N:3:ARG:HB3	1:N:21:GLN:HB2	1.84	0.58
3:Q:16:LEU:HD22	3:Q:106:LEU:HD23	1.85	0.58
4:F:73:LEU:O	4:F:79:ARG:NH2	2.26	0.58
4:F:142:ARG:NH2	4:F:181:LEU:O	2.37	0.58
4:F:1329:ARG:NH1	4:F:1333:SER:HB3	2.19	0.58
4:F:3141:PHE:HE1	4:F:3193:ILE:HG12	1.69	0.58
4:F:3634:GLN:O	4:F:3638:LYS:NZ	2.36	0.58
4:F:4055:ASN:ND2	4:F:4091:ALA:O	2.37	0.58
5:G:442:ASP:HB3	6:H:267:ILE:HG23	1.86	0.58
4:A:251:PHE:HZ	6:C:553:ILE:HD13	1.68	0.58
4:A:3784:ARG:HE	4:A:3786:LEU:HD21	1.69	0.58
5:B:286:ILE:O	6:C:313:GLY:N	2.37	0.58
4:S:3903:HIS:ND1	4:S:3934:THR:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:172:GLU:HB3	5:T:175:PRO:HB3	1.86	0.58
1:K:34:ILE:O	1:K:45:GLY:N	2.35	0.58
1:N:43:TRP:NE1	1:N:90:LYS:O	2.37	0.58
2:P:658:ILE:HD11	2:P:734:SER:HA	1.86	0.58
4:F:214:GLU:O	4:F:216:LYS:NZ	2.36	0.58
4:F:528:VAL:O	4:F:532:ARG:NH1	2.36	0.58
5:G:351:LYS:NZ	6:H:476:LEU:HB3	2.18	0.58
6:H:40:MET:O	6:H:43:GLN:HG3	2.03	0.58
6:H:56:LEU:HB3	6:H:81:ARG:H	1.68	0.58
6:H:134:ILE:HG13	6:H:161:LEU:HD11	1.86	0.58
6:H:362:LEU:HB2	6:H:421:TYR:HB3	1.85	0.58
4:A:624:ILE:O	4:A:668:LYS:NZ	2.36	0.58
4:A:990:GLN:HE21	4:A:2781:PRO:HA	1.69	0.58
4:A:2986:PRO:HG2	4:A:2991:LYS:HD3	1.86	0.58
4:A:3024:PRO:HG2	4:A:3031:TRP:NE1	2.18	0.58
6:C:242:ARG:HH21	6:C:243:HIS:HB3	1.69	0.58
4:S:25:CYS:SG	4:S:26:GLY:N	2.77	0.58
4:S:671:SER:OG	4:S:675:ARG:NH2	2.35	0.58
4:S:2224:PHE:HA	4:S:2231:PHE:CE1	2.39	0.58
4:S:2280:VAL:HG13	4:S:2285:LEU:HB2	1.86	0.58
4:S:2589:TYR:N	4:S:2775:TYR:O	2.37	0.58
4:S:3061:LEU:HD12	4:S:3064:PHE:HD2	1.69	0.58
4:S:4115:ASN:OD1	4:S:4116:ILE:N	2.36	0.58
5:T:348:MET:HB3	6:U:518:PRO:HD3	1.85	0.58
6:U:700:GLU:O	6:U:708:LYS:N	2.32	0.58
1:K:98:GLU:HA	1:K:108:LEU:H	1.68	0.58
1:N:155:TRP:CD1	1:O:154:ASP:HB3	2.39	0.58
4:F:86:LEU:HD12	4:F:126:PRO:HB3	1.86	0.58
4:F:915:THR:O	4:F:919:LEU:CB	2.52	0.58
4:F:1528:LEU:HB2	4:F:1571:LEU:HD11	1.86	0.58
4:F:1769:GLU:H	4:F:1772:HIS:CE1	2.21	0.58
4:F:3960:PRO:HG3	4:F:4111:ALA:HB1	1.85	0.58
6:H:147:LEU:HG	6:H:211:VAL:HG21	1.85	0.58
4:A:286:LEU:HD11	4:A:326:MET:HE3	1.86	0.58
4:A:774:GLU:HA	4:A:858:MET:HE3	1.84	0.58
4:A:921:ALA:HB3	4:A:927:LYS:HB2	1.84	0.58
4:A:1009:LEU:O	4:A:1013:ILE:HG12	2.03	0.58
4:A:4004:VAL:HB	4:A:4008:GLU:HG3	1.86	0.58
4:S:962:TYR:HB3	4:S:966:PHE:CE1	2.39	0.58
4:S:1519:PHE:HE1	4:S:1570:GLU:HB2	1.68	0.58
4:S:1789:GLY:O	4:S:1794:GLN:NE2	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3234:CYS:HA	4:S:3237:SER:HB3	1.86	0.58
4:S:3887:PHE:CD1	4:S:3901:ARG:HB2	2.32	0.58
5:T:360:HIS:CD2	6:U:363:LYS:HD2	2.37	0.58
1:L:177:TYR:CD2	2:M:796:ILE:HG12	2.39	0.58
4:F:197:PHE:HA	4:F:200:PHE:CD2	2.39	0.58
4:F:966:PHE:O	4:F:969:LEU:HG	2.04	0.58
4:F:1557:GLU:HB3	4:F:1592:MET:HE2	1.84	0.58
4:F:3529:ILE:O	4:F:3533:PHE:N	2.34	0.58
5:G:40:PHE:HE1	5:G:83:LEU:HB3	1.69	0.58
4:A:2880:CYS:HB3	4:A:2886:GLN:HA	1.86	0.58
6:C:36:LYS:NZ	6:C:235:CYS:SG	2.72	0.58
6:C:104:GLN:HB3	6:C:141:ARG:H	1.69	0.58
6:C:359:ASN:ND2	9:D:26:DA:N7	2.52	0.58
4:S:736:LEU:HD12	4:S:740:ILE:HG21	1.85	0.58
4:S:1107:TYR:HE2	4:S:1130:ALA:HB3	1.69	0.58
4:S:1210:ASP:HA	4:S:1213:LYS:HD2	1.85	0.58
4:S:2219:LEU:O	4:S:2223:VAL:N	2.37	0.58
4:S:2234:ASN:HA	4:S:2237:ILE:HD12	1.85	0.58
4:S:2856:SER:HA	4:S:2888:VAL:HG11	1.85	0.58
4:S:3328:ILE:O	4:S:3332:THR:HB	2.04	0.58
4:S:3786:LEU:HG	4:S:3987:ALA:HB2	1.85	0.58
5:T:41:LEU:HD11	5:T:146:VAL:HG11	1.86	0.58
6:U:639:ILE:HG13	6:U:640:ARG:HD2	1.85	0.58
1:K:154:ASP:OD1	1:K:155:TRP:N	2.36	0.57
4:F:678:LYS:HD3	4:F:737:PRO:HB3	1.86	0.57
4:F:1254:LEU:HD23	4:F:1257:LEU:HD12	1.86	0.57
4:F:1913:LYS:HA	4:F:1916:ILE:HD12	1.86	0.57
4:F:3448:GLU:HB3	4:F:3482:LEU:HD13	1.86	0.57
5:G:64:ILE:HG21	5:G:123:LYS:HA	1.85	0.57
5:G:105:LEU:HG	5:G:118:GLU:OE2	2.04	0.57
5:G:320:GLN:HB2	5:G:327:ILE:HB	1.85	0.57
6:H:30:PRO:HB3	6:H:166:PRO:HB3	1.86	0.57
6:H:40:MET:SD	6:H:230:SER:OG	2.61	0.57
4:A:542:ASP:OD1	4:A:543:SER:N	2.37	0.57
4:A:2154:GLU:O	4:A:2158:ARG:N	2.37	0.57
4:A:2255:LEU:O	4:A:2259:LYS:N	2.37	0.57
5:B:289:TYR:N	5:B:294:GLU:O	2.36	0.57
5:B:301:ARG:HB3	5:B:310:LEU:HD22	1.85	0.57
5:B:382:PHE:HB3	6:C:438:LEU:HD21	1.86	0.57
4:S:782:ARG:HG2	4:S:3164:TRP:CD2	2.39	0.57
4:S:2218:PHE:O	4:S:2222:HIS:ND1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:13:TRP:N	3:X:215:GLN:OE1	2.36	0.57
2:M:697:THR:O	2:M:718:HIS:NE2	2.36	0.57
2:M:875:PHE:HB3	2:M:888:ILE:HD12	1.86	0.57
1:N:19:PHE:HZ	1:O:124:ARG:HA	1.69	0.57
4:F:472:GLY:O	4:F:476:ARG:NE	2.34	0.57
4:F:1347:THR:O	4:F:1351:THR:N	2.36	0.57
4:F:2218:PHE:O	4:F:2222:HIS:ND1	2.37	0.57
4:A:1235:ILE:O	4:A:1289:SER:OG	2.20	0.57
4:A:1581:GLU:O	4:A:1584:GLN:NE2	2.37	0.57
4:A:1718:ILE:HB	4:A:1765:VAL:HG11	1.85	0.57
4:A:3348:LEU:HD23	4:A:3351:ILE:HD11	1.85	0.57
4:A:4021:LEU:HA	4:A:4028:ILE:HG12	1.84	0.57
5:B:286:ILE:HG21	6:C:320:ILE:HD13	1.86	0.57
6:C:348:SER:N	6:C:388:ASP:O	2.38	0.57
4:S:124:LYS:HB3	4:S:126:PRO:HD2	1.86	0.57
4:S:196:LEU:HD13	4:S:227:LEU:HD21	1.86	0.57
4:S:3413:TYR:HE2	4:S:3453:ALA:HB2	1.69	0.57
1:L:19:PHE:N	1:L:37:THR:O	2.37	0.57
3:Q:214:LEU:HD23	3:Q:217:LEU:HD13	1.86	0.57
4:F:31:GLY:HA2	4:F:34:LEU:HD12	1.86	0.57
4:F:1141:LYS:HB3	4:F:1144:SER:HB2	1.85	0.57
4:F:3718:ARG:O	4:F:3743:HIS:N	2.33	0.57
6:H:693:GLY:H	6:H:696:VAL:HG22	1.69	0.57
4:A:642:PHE:O	4:A:646:VAL:N	2.37	0.57
4:A:746:ARG:O	4:A:746:ARG:NH1	2.33	0.57
4:A:1431:LEU:HD22	4:A:1451:VAL:HG21	1.86	0.57
4:A:1607:GLU:O	4:A:1611:GLN:N	2.37	0.57
4:A:1855:PHE:HB2	4:A:1863:PHE:CD1	2.39	0.57
4:A:4025:GLY:HA2	4:A:4028:ILE:HG13	1.87	0.57
4:S:571:SER:O	4:S:574:LYS:HG2	2.03	0.57
4:S:1184:ARG:NH2	4:S:1265:GLU:OE1	2.37	0.57
4:S:1366:THR:HG21	4:S:1411:TYR:HE2	1.70	0.57
5:T:283:PRO:HD3	5:T:483:LEU:HD23	1.85	0.57
5:T:344:GLY:H	5:T:401:THR:HB	1.69	0.57
6:U:19:THR:HG23	6:U:140:SER:HB2	1.85	0.57
6:U:65:ASP:N	6:U:77:ILE:O	2.27	0.57
6:U:319:ASP:OD1	6:U:320:ILE:N	2.37	0.57
6:U:454:VAL:O	6:U:458:ILE:N	2.34	0.57
3:Y:165:GLN:NE2	3:Y:168:GLN:OE1	2.37	0.57
1:L:34:ILE:HB	1:L:113:LEU:HD22	1.85	0.57
2:M:666:VAL:HG11	2:M:678:LEU:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:52:ILE:HD11	1:O:71:ARG:HH21	1.69	0.57
3:R:138:PRO:HB2	3:R:218:TYR:CE2	2.40	0.57
4:F:473:PRO:O	4:F:477:ASN:ND2	2.38	0.57
4:F:1394:HIS:CE1	4:F:1398:VAL:HB	2.39	0.57
4:F:2820:MET:HE1	4:F:2829:LYS:HG2	1.86	0.57
4:F:2826:LEU:HD13	4:F:2829:LYS:HD2	1.84	0.57
4:F:3110:PHE:CD2	4:F:3135:LEU:HD11	2.40	0.57
7:I:25:DA:C6	8:J:33:DA:H1'	2.40	0.57
4:A:84:GLU:O	4:A:87:LYS:HG2	2.04	0.57
4:A:466:LEU:HD21	4:A:545:LEU:HB3	1.87	0.57
4:A:1920:TYR:HA	4:A:1923:PHE:CE2	2.40	0.57
4:A:2253:TYR:HB2	4:A:2289:ASP:HB2	1.86	0.57
4:A:3034:PRO:HG2	4:A:3037:GLN:HE21	1.69	0.57
4:A:3332:THR:HA	4:A:3335:ARG:HG2	1.85	0.57
4:A:3335:ARG:HH22	4:A:3418:ASP:HB3	1.70	0.57
4:S:28:ALA:O	4:S:32:HIS:ND1	2.37	0.57
4:S:715:ALA:HA	4:S:718:MET:HB2	1.87	0.57
4:S:901:MET:HE1	4:S:2816:ILE:HD12	1.85	0.57
4:S:1240:THR:HA	4:S:1310:GLU:HB3	1.87	0.57
4:S:1413:ASP:OD1	4:S:1414:ILE:N	2.35	0.57
4:S:2220:MET:HA	4:S:2223:VAL:HG12	1.87	0.57
4:S:2462:VAL:HG21	4:S:2508:GLN:HB2	1.86	0.57
4:S:3384:HIS:HA	4:S:3387:GLU:HB2	1.86	0.57
4:S:3771:MET:HE3	4:S:3918:LEU:HD21	1.86	0.57
5:T:433:GLN:OE1	6:U:431:ARG:NH1	2.38	0.57
6:U:270:GLU:O	6:U:486:ARG:NH2	2.36	0.57
6:U:643:ARG:NH1	6:U:643:ARG:O	2.37	0.57
1:K:29:GLU:HG2	1:K:67:VAL:HG11	1.86	0.57
4:F:916:GLU:HA	4:F:919:LEU:HD23	1.86	0.57
4:F:1322:THR:O	4:F:1326:GLU:N	2.38	0.57
4:A:912:PRO:O	4:A:915:THR:OG1	2.21	0.57
4:A:1137:ILE:HA	4:A:1140:LYS:HD2	1.87	0.57
4:A:1619:ALA:HB1	4:A:1652:ILE:HG23	1.86	0.57
4:A:1717:LEU:HG	4:A:1721:HIS:HB2	1.85	0.57
4:A:2105:HIS:ND1	4:A:2156:VAL:HA	2.19	0.57
4:A:3752:VAL:HA	4:A:3803:ILE:H	1.70	0.57
4:S:457:CYS:O	4:S:461:ILE:HG12	2.04	0.57
4:S:862:LEU:HA	4:S:866:ILE:HD12	1.87	0.57
4:S:1372:LEU:O	4:S:1376:LEU:HG	2.04	0.57
4:S:1471:GLN:HG3	4:S:1477:HIS:H	1.70	0.57
4:S:2205:VAL:HG22	4:S:2207:LYS:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2388:LYS:HG2	5:T:155:SER:HB2	1.86	0.57
4:S:2415:LEU:HB2	4:S:2420:PHE:HB3	1.85	0.57
4:S:2816:ILE:HG13	4:S:2820:MET:HE3	1.85	0.57
4:S:3447:VAL:HG21	4:S:3478:GLU:HG3	1.86	0.57
8:W:25:DT:OP2	8:W:26:DT:N3	2.35	0.57
2:P:869:HIS:CE1	2:P:890:LYS:HD2	2.39	0.57
4:F:418:ALA:HB2	4:F:464:VAL:HG12	1.86	0.57
4:F:677:ALA:O	4:F:681:LYS:N	2.38	0.57
4:F:832:LYS:HG2	4:F:834:LEU:HD22	1.86	0.57
4:F:1791:CYS:HA	4:F:1835:ALA:HB2	1.86	0.57
4:F:2242:VAL:HG11	4:F:2279:ILE:HG23	1.85	0.57
4:F:2491:THR:O	4:F:2496:GLN:NE2	2.37	0.57
4:F:3305:SER:OG	4:F:3309:GLU:OE2	2.22	0.57
4:A:142:ARG:HE	4:A:182:GLY:HA2	1.68	0.57
4:A:926:THR:HG22	4:A:2800:ARG:HH11	1.70	0.57
4:A:1747:LEU:HD21	4:A:1778:PHE:CE1	2.39	0.57
4:A:2408:MET:HB3	4:A:2411:LEU:HB3	1.87	0.57
4:A:3246:ALA:HB1	4:A:3251:ASN:HB3	1.86	0.57
4:A:3627:ALA:HA	4:A:3630:ARG:HB2	1.86	0.57
4:A:3882:LEU:HD22	4:A:3885:ARG:HH12	1.67	0.57
5:B:269:ILE:HG12	5:B:375:VAL:HG21	1.86	0.57
5:B:361:TYR:HA	5:B:436:PHE:HB2	1.87	0.57
6:C:74:TYR:HB3	6:C:77:ILE:HG13	1.85	0.57
6:C:241:GLU:HG2	6:C:266:SER:HA	1.85	0.57
4:S:129:ASP:HA	4:S:132:ILE:HG12	1.86	0.57
4:S:3280:TYR:CZ	4:S:3283:LEU:HD13	2.40	0.57
5:T:72:ILE:HA	5:T:75:ILE:HD12	1.85	0.57
5:T:387:ILE:HA	5:T:417:GLU:HG3	1.86	0.57
5:T:388:LYS:HB3	6:U:458:ILE:HD13	1.87	0.57
6:U:335:SER:OG	6:U:394:ARG:NH2	2.38	0.57
3:X:204:ILE:HG13	3:Y:140:MET:HE1	1.87	0.57
3:Y:45:TRP:HB3	3:Y:123:CYS:HB3	1.86	0.57
1:N:178:LYS:HA	1:N:181:ILE:HD12	1.87	0.57
1:O:74:LEU:HD23	1:O:111:PHE:CE1	2.39	0.57
3:Q:46:HIS:CE1	3:Q:133:GLN:HB2	2.40	0.57
4:F:528:VAL:O	4:F:532:ARG:HG2	2.03	0.57
4:F:1445:ARG:HG2	4:F:1510:LEU:HD13	1.87	0.57
4:F:1538:LEU:N	4:F:1553:PHE:O	2.37	0.57
4:F:1553:PHE:HE2	4:F:1558:TYR:HB2	1.69	0.57
4:F:2860:ASP:O	4:F:2864:GLN:HG2	2.03	0.57
4:F:3123:GLN:OE1	4:F:3123:GLN:N	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:4085:LYS:O	4:F:4089:ILE:N	2.28	0.57
5:G:183:ALA:HB1	5:G:187:ARG:HH12	1.68	0.57
6:H:9:ALA:N	6:H:129:LYS:O	2.37	0.57
6:H:134:ILE:HD11	6:H:161:LEU:HD21	1.85	0.57
4:S:41:GLU:O	4:S:45:SER:N	2.38	0.57
4:S:652:GLU:HA	4:S:655:LEU:HD12	1.87	0.57
4:S:1734:PRO:HA	4:S:1737:ASN:HB2	1.86	0.57
4:S:2307:MET:SD	4:S:2319:ALA:HB3	2.44	0.57
4:S:3444:ALA:HA	4:S:3478:GLU:HB3	1.85	0.57
4:S:3470:GLN:NE2	4:S:3473:GLU:OE1	2.36	0.57
5:T:439:PHE:HA	6:U:479:THR:HG22	1.86	0.57
6:U:50:ASN:O	6:U:236:VAL:HG13	2.05	0.57
6:U:244:SER:HB3	7:V:24:DA:H62	1.69	0.57
6:U:283:THR:HG23	6:U:285:LYS:H	1.69	0.57
6:U:643:ARG:NH1	6:U:647:ILE:HG13	2.20	0.57
6:U:693:GLY:H	6:U:696:VAL:HG22	1.69	0.57
3:X:153:LEU:HD12	3:Y:150:VAL:HG13	1.86	0.57
3:Y:29:ILE:HG13	3:Y:79:LEU:HB3	1.85	0.57
1:K:18:HIS:HE1	1:K:90:LYS:HE3	1.69	0.57
2:M:746:MET:HE2	2:M:754:PHE:HE2	1.69	0.57
2:P:864:ILE:HA	2:P:889:LEU:HB2	1.86	0.57
3:Q:202:CYS:O	3:R:137:ARG:NH1	2.37	0.57
4:F:15:LEU:HD12	4:F:41:GLU:HG2	1.87	0.57
4:F:1342:MET:HE1	4:F:1398:VAL:HG22	1.87	0.57
4:F:1685:ASP:HB3	4:F:1688:LEU:HG	1.85	0.57
4:F:1769:GLU:HB2	4:F:1772:HIS:CG	2.40	0.57
4:F:3738:ILE:N	4:F:3750:PHE:O	2.37	0.57
5:G:337:LEU:HD23	6:H:489:ARG:HE	1.69	0.57
5:G:441:ASP:OD1	6:H:270:GLU:N	2.35	0.57
6:H:363:LYS:HE2	6:H:418:CYS:HB2	1.86	0.57
4:A:3066:ASP:HA	4:A:3069:MET:HE2	1.86	0.57
6:C:40:MET:HE2	6:C:235:CYS:HA	1.87	0.57
4:S:213:ARG:HB3	5:T:339:ARG:HH22	1.69	0.57
4:S:944:LYS:HA	4:S:2577:PHE:HE2	1.69	0.57
4:S:4088:ASN:HB3	4:S:4110:GLN:HA	1.85	0.57
5:T:92:LYS:NZ	5:T:133:ASP:O	2.37	0.57
6:U:93:ASP:HA	6:U:97:LYS:HB2	1.85	0.57
1:L:25:GLU:O	1:L:26:LYS:HG3	2.05	0.57
2:P:706:ASN:H	2:P:709:VAL:HB	1.69	0.57
3:Q:140:MET:HA	3:Q:140:MET:HE3	1.85	0.57
3:R:132:SER:O	3:R:137:ARG:N	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:440:VAL:HG21	4:F:485:GLN:HG3	1.85	0.57
4:F:1538:LEU:HA	4:F:1555:HIS:NE2	2.20	0.57
4:F:3580:ASN:HD21	4:F:3582:GLU:HB2	1.70	0.57
4:F:3580:ASN:HD22	4:F:3583:LEU:HG	1.68	0.57
4:F:3945:ALA:N	4:F:3948:SER:OG	2.38	0.57
5:G:479:GLU:OE1	5:G:479:GLU:N	2.38	0.57
4:A:670:LEU:HG	4:A:732:PHE:CD1	2.40	0.57
4:A:733:LEU:HD12	4:A:736:LEU:HD12	1.87	0.57
4:A:2773:ARG:HE	4:A:2775:TYR:H	1.52	0.57
4:A:3950:THR:H	4:A:4068:HIS:N	1.98	0.57
6:C:107:PHE:HZ	6:C:208:VAL:HB	1.69	0.57
4:S:1420:ARG:HG2	4:S:1467:ILE:HD12	1.87	0.57
4:S:2862:SER:HA	4:S:2868:LEU:HB3	1.87	0.57
4:S:3297:VAL:HA	4:S:3300:VAL:HG22	1.87	0.57
5:T:398:CYS:SG	5:T:399:ARG:N	2.78	0.57
7:V:26:DA:H5''	8:W:31:DT:H2'	1.87	0.57
2:M:814:ARG:HA	2:M:849:GLY:HA3	1.85	0.57
4:F:642:PHE:HD1	4:F:645:TRP:HB2	1.70	0.57
4:F:1766:LEU:HD13	4:F:1778:PHE:CD2	2.40	0.57
4:F:2227:LYS:O	4:F:2228:ARG:HG2	2.04	0.57
4:F:3130:GLN:HG2	4:F:3178:ILE:HG21	1.86	0.57
4:F:3464:LYS:HD3	4:F:3997:LEU:HD21	1.86	0.57
4:F:3962:ARG:HH21	4:F:3964:THR:HB	1.69	0.57
6:H:491:PHE:O	6:H:495:LEU:HG	2.04	0.57
6:H:633:MET:HA	6:H:636:ILE:HG12	1.87	0.57
4:A:887:ASP:O	4:A:890:LYS:NZ	2.33	0.57
4:A:1605:PHE:HA	4:A:1608:ARG:HB3	1.86	0.57
4:A:3613:MET:HE3	4:A:3644:PHE:CZ	2.39	0.57
4:S:493:LYS:O	4:S:625:ASN:ND2	2.38	0.57
4:S:1647:ALA:O	4:S:1651:LYS:HG2	2.05	0.57
4:S:1828:LEU:O	4:S:1883:ARG:NH1	2.38	0.57
4:S:2241:LEU:HA	4:S:2244:CYS:HB3	1.87	0.57
5:T:37:SER:HB2	5:T:108:LEU:HD13	1.87	0.57
6:U:489:ARG:O	6:U:492:GLN:HG3	2.04	0.57
1:K:150:ARG:HD2	2:M:836:THR:HG22	1.86	0.56
1:N:22:VAL:HG11	1:N:74:LEU:HB3	1.86	0.56
2:P:879:ARG:HG2	2:P:886:PHE:H	1.69	0.56
4:F:176:GLU:H	4:F:223:CYS:N	2.03	0.56
4:F:296:VAL:HG22	4:F:300:TRP:CD1	2.40	0.56
4:F:1009:LEU:O	4:F:1013:ILE:HG12	2.04	0.56
4:F:1227:GLY:O	4:F:1292:LYS:NZ	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2398:LEU:HD13	4:F:2434:VAL:HG21	1.87	0.56
4:F:2574:ASN:O	4:F:2787:HIS:N	2.38	0.56
5:G:148:TRP:CD1	5:G:152:ASN:HD21	2.23	0.56
5:G:445:LYS:O	6:H:243:HIS:ND1	2.37	0.56
8:J:13:DA:N6	8:J:14:DT:H3	2.03	0.56
4:A:892:LEU:HB3	4:A:907:LEU:HB2	1.86	0.56
4:A:990:GLN:NE2	4:A:2781:PRO:HA	2.20	0.56
4:A:1076:LEU:HB2	4:A:1123:THR:HA	1.86	0.56
4:A:2395:THR:O	4:A:2399:GLU:HG3	2.05	0.56
4:A:2424:MET:HB3	4:A:2461:PHE:CZ	2.40	0.56
4:A:3061:LEU:O	4:A:3065:ILE:HG12	2.05	0.56
4:A:3255:ALA:O	4:A:3256:MET:HE2	2.05	0.56
4:A:3385:LEU:HB3	4:A:3416:LEU:HB2	1.87	0.56
4:A:3462:ARG:HA	4:A:3465:PHE:HB2	1.87	0.56
4:S:417:VAL:HA	4:S:420:VAL:HG12	1.87	0.56
4:S:881:LYS:HG3	4:S:883:TYR:CE1	2.40	0.56
4:S:2105:HIS:HA	4:S:2108:LEU:HD23	1.86	0.56
4:S:2745:ARG:HD2	7:V:45:DG:H21	1.69	0.56
5:T:259:LEU:C	5:T:260:LYS:HD3	2.30	0.56
5:T:328:ILE:O	6:U:497:ARG:NH1	2.38	0.56
6:U:245:ILE:HD11	7:V:21:DA:H8	1.70	0.56
6:U:265:LYS:O	7:V:24:DA:N6	2.38	0.56
1:L:5:ILE:HA	1:L:21:GLN:HA	1.86	0.56
2:M:764:SER:OG	2:M:765:TYR:N	2.37	0.56
3:Q:16:LEU:HD23	3:Q:18:LEU:HD22	1.87	0.56
4:F:1371:VAL:O	4:F:1375:THR:HG23	2.04	0.56
4:F:1673:THR:HA	4:F:1676:ILE:HD12	1.87	0.56
4:F:2930:TYR:HB3	4:F:2935:GLU:O	2.06	0.56
4:F:3929:MET:SD	4:F:3938:ILE:N	2.78	0.56
4:A:678:LYS:HG2	4:A:737:PRO:HA	1.87	0.56
4:A:688:PRO:HA	4:A:701:TYR:CE1	2.40	0.56
4:A:1370:ARG:HG3	4:A:1418:HIS:CE1	2.38	0.56
4:A:2145:PHE:HA	4:A:2148:LYS:HE3	1.85	0.56
4:A:3010:SER:HA	4:A:3013:TYR:HB3	1.87	0.56
4:A:3965:ARG:HA	4:A:3968:ILE:HD12	1.87	0.56
6:C:127:PHE:O	6:C:130:ARG:NH1	2.38	0.56
4:S:462:VAL:HG21	4:S:540:MET:HE1	1.87	0.56
4:S:966:PHE:CD1	4:S:1011:GLU:HB2	2.39	0.56
4:S:2856:SER:HB3	4:S:2885:GLN:HG3	1.85	0.56
4:S:2940:ARG:HD3	4:S:2957:LEU:HB3	1.86	0.56
7:V:29:DA:N3	7:V:29:DA:H5"	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:140:LYS:N	1:L:137:ASN:HA	2.19	0.56
1:L:133:THR:O	1:L:136:GLU:HB2	2.04	0.56
1:L:174:THR:O	1:L:178:LYS:HG2	2.05	0.56
1:L:179:ARG:O	1:L:183:VAL:HG12	2.04	0.56
2:P:788:THR:HG23	2:P:791:GLU:HB3	1.88	0.56
2:P:872:VAL:HA	2:P:875:PHE:HB2	1.87	0.56
4:F:935:HIS:HE2	4:F:987:LEU:HD13	1.70	0.56
4:F:1137:ILE:HA	4:F:1140:LYS:HE2	1.87	0.56
4:F:1184:ARG:HE	4:F:1262:ALA:HB1	1.70	0.56
4:F:2595:TRP:CE3	4:F:2765:GLN:HB2	2.40	0.56
4:F:2831:ASN:O	4:F:2834:GLN:NE2	2.37	0.56
4:F:3250:ASN:OD1	4:F:3289:ARG:NH2	2.29	0.56
5:G:166:ILE:N	5:G:199:PHE:O	2.34	0.56
5:G:297:LYS:N	6:H:296:CYS:O	2.35	0.56
6:H:241:GLU:HB2	6:H:270:GLU:HB2	1.87	0.56
6:H:412:ILE:HD13	6:H:417:GLU:HG2	1.88	0.56
6:H:499:LEU:HD22	6:H:500:HIS:HD2	1.69	0.56
6:H:657:ASN:O	6:H:660:LYS:HB2	2.04	0.56
4:A:1146:ASN:HA	4:A:1165:LEU:HB2	1.87	0.56
4:A:1805:PHE:HE1	4:A:1817:GLN:HA	1.70	0.56
4:A:2321:GLU:O	4:A:2325:LEU:HG	2.05	0.56
4:A:2385:LEU:O	4:A:2389:PHE:N	2.38	0.56
4:A:3269:ARG:HB2	4:A:3272:TRP:CD2	2.40	0.56
4:A:3471:ILE:HG23	4:A:3475:TYR:HD2	1.71	0.56
4:A:3537:SER:HA	4:A:3540:TYR:HB2	1.87	0.56
4:A:3998:LEU:O	4:A:4002:MET:HG3	2.05	0.56
5:B:372:GLU:HA	5:B:378:SER:HB2	1.87	0.56
6:C:245:ILE:HG13	6:C:246:HIS:H	1.69	0.56
4:S:35:ILE:HD12	4:S:80:GLU:HB3	1.85	0.56
4:S:328:ALA:C	4:S:333:MET:HE1	2.30	0.56
4:S:886:TRP:O	4:S:888:ARG:NH1	2.37	0.56
4:S:1328:GLU:HB3	4:S:1386:ILE:HD13	1.87	0.56
4:S:1437:TYR:N	4:S:1507:CYS:SG	2.68	0.56
4:S:1775:GLU:HA	4:S:1778:PHE:CB	2.35	0.56
4:S:1783:ARG:HH11	4:S:1783:ARG:HA	1.69	0.56
4:S:1937:ARG:O	4:S:1941:HIS:ND1	2.37	0.56
4:S:2306:ASN:HA	4:S:2309:PHE:CD2	2.40	0.56
4:S:2350:LYS:O	4:S:2354:ASN:HB2	2.04	0.56
4:S:2504:ASP:O	4:S:2508:GLN:HG2	2.05	0.56
5:T:43:ASP:OD1	5:T:44:ALA:N	2.39	0.56
5:T:286:ILE:N	6:U:313:GLY:O	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:348:MET:HE1	6:U:516:LEU:HB3	1.85	0.56
5:T:400:TYR:CZ	5:T:402:PRO:HB3	2.40	0.56
6:U:132:ILE:HD12	6:U:161:LEU:HD13	1.87	0.56
3:Y:18:LEU:HD21	3:Y:23:LEU:HG	1.88	0.56
3:Y:36:LEU:O	3:Y:47:GLU:N	2.35	0.56
2:M:818:VAL:HB	2:M:850:ALA:HB1	1.86	0.56
1:O:150:ARG:NH2	1:O:154:ASP:OD2	2.39	0.56
3:R:24:LEU:HG	3:R:207:GLY:HA3	1.88	0.56
4:F:49:ALA:H	4:F:52:ALA:HB3	1.71	0.56
4:F:1171:TRP:O	4:F:1175:HIS:ND1	2.33	0.56
4:F:1296:PHE:O	4:F:1299:GLU:HG2	2.06	0.56
4:F:2213:ASN:ND2	4:F:2248:CYS:O	2.31	0.56
5:G:95:ASN:ND2	5:G:102:ILE:HB	2.18	0.56
6:H:529:PRO:O	6:H:533:ILE:HD12	2.05	0.56
4:A:201:LEU:HB2	4:A:249:PHE:HE2	1.69	0.56
4:A:1017:ILE:HG21	4:A:1077:GLY:HA2	1.87	0.56
4:A:3380:ARG:O	4:A:3384:HIS:ND1	2.37	0.56
4:A:3421:ASP:OD2	4:A:3425:ARG:NH2	2.38	0.56
4:S:782:ARG:NH1	4:S:786:GLN:OE1	2.38	0.56
4:S:1711:ARG:NE	4:S:1761:LEU:HD13	2.19	0.56
4:S:3775:LEU:HD23	4:S:3991:PHE:HZ	1.71	0.56
4:S:3865:THR:HA	4:S:4085:LYS:HD3	1.86	0.56
3:Q:43:GLN:HB3	3:Q:45:TRP:CH2	2.41	0.56
3:Q:140:MET:SD	3:R:139:LEU:HD13	2.46	0.56
3:R:29:ILE:HA	3:R:34:TYR:HB3	1.86	0.56
4:F:420:VAL:O	4:F:424:LEU:N	2.37	0.56
4:F:3586:LYS:O	4:F:3590:ASN:ND2	2.38	0.56
5:G:165:ARG:HD2	5:G:201:ASP:HB2	1.87	0.56
5:G:470:ARG:HH22	6:H:347:LYS:HD3	1.70	0.56
6:H:441:SER:HB3	6:H:444:TYR:HB2	1.87	0.56
4:A:913:ARG:NH1	4:A:913:ARG:O	2.36	0.56
4:A:960:GLN:O	4:A:964:ARG:HG2	2.06	0.56
4:A:974:CYS:HB2	4:A:1025:LEU:HD13	1.86	0.56
4:A:1071:ASN:HD22	4:A:1074:LYS:HG3	1.70	0.56
4:A:3775:LEU:HD21	4:A:3913:ILE:HD13	1.86	0.56
4:A:3821:SER:OG	4:A:3822:GLN:OE1	2.24	0.56
5:B:297:LYS:N	6:C:296:CYS:O	2.33	0.56
5:B:439:PHE:HD2	6:C:269:GLN:HA	1.70	0.56
4:S:424:LEU:HD21	4:S:428:PRO:HD3	1.88	0.56
4:S:1343:GLU:HG3	4:S:1398:VAL:HG21	1.87	0.56
4:S:2746:LYS:HA	8:W:13:DA:H1'	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:4056:PRO:HG3	4:S:4103:GLN:O	2.05	0.56
5:T:426:GLN:NE2	5:T:427:VAL:O	2.32	0.56
6:U:513:TRP:O	6:U:517:ASN:ND2	2.37	0.56
2:M:905:GLU:OE1	2:M:908:GLN:NE2	2.39	0.56
1:N:17:THR:H	1:O:124:ARG:HE	1.54	0.56
1:N:137:ASN:HB3	1:O:137:ASN:HB2	1.86	0.56
4:F:38:LEU:HD22	4:F:85:ILE:HG13	1.88	0.56
4:F:1590:THR:HA	4:F:1593:VAL:HG22	1.87	0.56
4:F:1802:TYR:O	4:F:1805:PHE:HB3	2.05	0.56
4:F:1836:LEU:HD21	4:F:1883:ARG:HG3	1.87	0.56
4:F:2410:GLU:O	4:F:2414:GLN:NE2	2.39	0.56
4:F:3719:ILE:HA	4:F:3742:GLY:HA2	1.87	0.56
4:A:62:ASP:O	4:A:65:LEU:HG	2.06	0.56
4:A:631:ARG:HD2	4:A:668:LYS:HG2	1.87	0.56
4:A:637:LYS:NZ	4:A:638:GLN:O	2.37	0.56
4:A:1056:THR:HA	4:A:1059:LEU:HD23	1.86	0.56
4:A:3168:TYR:HD2	4:A:3241:LYS:HG3	1.68	0.56
4:A:3765:GLU:HB3	4:A:3792:SER:HA	1.87	0.56
5:B:367:PHE:HE1	5:B:416:GLN:HB3	1.71	0.56
6:C:165:LEU:HD13	6:C:205:LEU:HD13	1.86	0.56
4:S:1083:ASN:HA	4:S:1133:HIS:CD2	2.40	0.56
4:S:1805:PHE:HE1	4:S:1817:GLN:HA	1.71	0.56
4:S:2227:LYS:O	4:S:2228:ARG:HG2	2.05	0.56
4:S:3531:TYR:O	4:S:3535:ILE:HB	2.05	0.56
5:T:394:VAL:HB	6:U:462:SER:HB3	1.87	0.56
6:U:115:MET:HE1	6:U:149:ILE:HG13	1.86	0.56
1:K:157:ASP:O	1:K:161:ARG:HG2	2.05	0.56
1:N:18:HIS:HB3	1:N:36:LEU:HD11	1.88	0.56
4:F:630:CYS:HA	4:F:633:ILE:HB	1.87	0.56
4:F:631:ARG:HH11	4:F:668:LYS:HG2	1.71	0.56
4:F:861:SER:N	4:F:3136:THR:HG21	2.21	0.56
4:F:893:SER:HB2	4:F:906:PHE:CD2	2.41	0.56
4:F:1946:ASN:HA	4:F:1949:ILE:HD12	1.86	0.56
4:F:3183:ILE:HD12	4:F:3238:MET:HB3	1.88	0.56
4:F:3962:ARG:NH1	4:F:4124:TRP:O	2.39	0.56
5:G:106:GLN:NE2	5:G:109:ASP:OD1	2.38	0.56
6:H:17:GLY:HA2	6:H:104:GLN:HA	1.88	0.56
6:H:613:SER:O	6:H:616:LEU:HG	2.06	0.56
6:H:652:GLU:HB3	6:H:690:GLU:HA	1.86	0.56
7:I:31:DA:H4'	7:I:32:DA:C8	2.40	0.56
4:A:491:CYS:HB2	4:A:579:LEU:HD21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:923:ASP:O	4:A:926:THR:OG1	2.21	0.56
4:A:1400:VAL:HG12	4:A:1404:LYS:NZ	2.20	0.56
4:A:1763:THR:HG23	4:A:1766:LEU:HD23	1.87	0.56
4:A:2321:GLU:O	4:A:2370:SER:OG	2.20	0.56
4:A:2486:ASP:OD1	4:A:2486:ASP:N	2.37	0.56
4:A:3763:ARG:NH2	4:A:4010:SER:OG	2.25	0.56
4:A:4056:PRO:HD2	4:A:4098:LEU:HB2	1.88	0.56
5:B:376:ILE:H	6:C:540:ILE:HG12	1.71	0.56
6:C:28:GLU:OE1	6:C:33:GLN:NE2	2.38	0.56
6:C:115:MET:HB2	6:C:153:SER:HB2	1.87	0.56
4:S:871:LEU:HA	4:S:879:MET:HE1	1.87	0.56
4:S:993:HIS:HD1	4:S:1039:TRP:HE1	1.53	0.56
4:S:2396:LEU:O	4:S:2400:VAL:HG23	2.05	0.56
4:S:2466:SER:OG	4:S:2469:CYS:SG	2.63	0.56
4:S:3122:HIS:HA	4:S:3125:ARG:HB3	1.87	0.56
4:S:3254:LEU:HD22	4:S:3283:LEU:N	2.21	0.56
4:S:3758:LEU:H	4:S:3795:PRO:HB3	1.71	0.56
5:T:50:GLU:O	5:T:59:PRO:HD3	2.04	0.56
5:T:328:ILE:HD12	6:U:279:VAL:HG21	1.87	0.56
6:U:247:TRP:NE1	6:U:338:LYS:HG3	2.19	0.56
1:K:139:ALA:C	1:K:141:ASN:N	2.58	0.56
1:K:165:CYS:SG	2:M:898:ILE:HD13	2.46	0.56
2:M:800:GLU:O	2:M:805:TRP:N	2.38	0.56
4:F:913:ARG:O	4:F:917:LEU:HG	2.06	0.56
4:F:1048:GLN:HA	4:F:1051:LYS:HG2	1.87	0.56
4:F:1082:PHE:HA	4:F:1085:ILE:HG12	1.87	0.56
4:F:2398:LEU:HB3	4:F:2434:VAL:HG21	1.88	0.56
4:F:3246:ALA:O	4:F:3251:ASN:ND2	2.35	0.56
4:F:3277:VAL:HA	4:F:3306:LEU:HG	1.88	0.56
4:A:162:LEU:HA	5:B:301:ARG:HD2	1.88	0.56
4:A:1372:LEU:HD13	4:A:1402:LEU:HD12	1.88	0.56
4:A:1848:ILE:HG23	4:A:1915:LEU:HD21	1.87	0.56
4:A:2269:ASP:HB2	4:A:2309:PHE:HB3	1.88	0.56
4:A:2477:LEU:HD22	4:A:2505:VAL:HG21	1.88	0.56
5:B:488:ARG:O	5:B:500:PRO:HG3	2.05	0.56
6:C:86:PRO:HA	6:C:90:LEU:HD23	1.87	0.56
4:S:334:HIS:HB3	4:S:376:ILE:HG12	1.88	0.56
4:S:1673:THR:HA	4:S:1676:ILE:HD12	1.88	0.56
4:S:1751:GLU:HG2	4:S:1788:ARG:HH11	1.70	0.56
4:S:1771:GLN:OE1	4:S:1775:GLU:N	2.38	0.56
4:S:3480:LEU:O	4:S:3484:THR:HG23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3604:LYS:NZ	4:S:3605:ASN:OD1	2.39	0.56
4:S:3739:ILE:HG23	4:S:3748:HIS:H	1.70	0.56
5:T:397:LEU:HD12	5:T:398:CYS:H	1.71	0.56
6:U:238:LYS:O	6:U:240:ILE:N	2.39	0.56
6:U:426:PHE:HB2	6:U:428:GLU:HG2	1.88	0.56
2:M:666:VAL:HG22	2:M:701:ILE:HB	1.86	0.56
4:F:731:THR:HG23	4:F:768:VAL:HG21	1.88	0.56
4:F:910:PHE:CE1	4:F:2807:GLN:HB2	2.41	0.56
4:F:2233:HIS:HB2	4:F:2731:ARG:NE	2.21	0.56
4:F:3880:ALA:HB2	4:F:3965:ARG:HH22	1.71	0.56
5:G:109:ASP:CG	5:G:115:ARG:HE	2.14	0.56
5:G:318:ARG:O	5:G:329:LEU:N	2.30	0.56
6:H:39:THR:HA	6:H:42:VAL:HG12	1.88	0.56
6:H:531:SER:HA	6:H:534:LYS:HG2	1.87	0.56
6:H:644:GLU:HA	6:H:647:ILE:HD12	1.86	0.56
4:A:200:PHE:CE2	4:A:227:LEU:HD22	2.39	0.56
4:A:243:GLN:HG3	4:A:282:PHE:HA	1.87	0.56
4:A:254:LYS:HD2	4:A:272:LEU:HD23	1.88	0.56
4:A:1983:ASP:HA	4:A:2185:MET:HE1	1.87	0.56
4:A:3154:GLN:HG3	4:A:3157:LEU:HD23	1.88	0.56
4:A:3168:TYR:HE1	4:A:3186:ARG:HD3	1.71	0.56
5:B:48:MET:O	5:B:60:PHE:N	2.35	0.56
4:S:1822:ARG:NH2	6:U:625:ASP:OD2	2.39	0.56
4:S:2253:TYR:HB2	4:S:2291:GLN:NE2	2.21	0.56
4:S:2930:TYR:HE1	4:S:3898:LEU:HD11	1.69	0.56
4:S:3090:TYR:CZ	4:S:3098:ARG:HD3	2.40	0.56
4:S:3230:LEU:O	4:S:3233:SER:OG	2.20	0.56
4:S:3531:TYR:HA	4:S:3535:ILE:HD12	1.88	0.56
8:W:20:DT:H2"	8:W:21:DA:C8	2.41	0.56
1:K:59:MET:HE1	1:K:108:LEU:HA	1.88	0.56
2:M:864:ILE:HA	2:M:889:LEU:O	2.06	0.56
4:F:279:ALA:HA	4:F:282:PHE:CD2	2.41	0.56
4:F:1575:LEU:HD21	4:F:1618:LEU:HA	1.87	0.56
4:F:2142:ILE:O	4:F:2146:LEU:HG	2.05	0.56
4:F:3361:GLU:HA	4:F:3368:GLU:HG3	1.87	0.56
4:F:3575:LEU:HD12	4:F:3681:LYS:N	2.20	0.56
6:H:57:VAL:HB	6:H:77:ILE:HG23	1.87	0.56
6:H:250:ARG:HG2	6:H:260:ARG:HG2	1.87	0.56
6:H:488:GLN:HG2	6:H:512:ILE:HG12	1.88	0.56
6:H:604:GLN:HG3	6:H:605:LYS:HG3	1.87	0.56
4:A:40:GLN:HE22	4:A:2427:ARG:HD3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1377:CYS:HA	4:A:1454:ALA:HB2	1.88	0.56
4:A:1834:ASP:OD1	4:A:1835:ALA:N	2.39	0.56
4:A:2494:ASP:O	4:A:2498:ILE:HG13	2.05	0.56
4:A:3593:ARG:NH1	4:A:3664:ASN:OD1	2.39	0.56
5:B:168:LEU:HD12	5:B:169:PHE:H	1.71	0.56
4:S:63:PHE:O	4:S:67:VAL:HG22	2.05	0.56
4:S:79:ARG:O	4:S:126:PRO:HG3	2.05	0.56
4:S:1061:LYS:HG2	4:S:1152:ARG:HH11	1.71	0.56
4:S:1373:VAL:HG21	4:S:1419:LEU:HA	1.88	0.56
4:S:2164:TRP:O	4:S:2168:LEU:N	2.37	0.56
4:S:2328:ARG:HA	4:S:2333:ARG:NH2	2.21	0.56
4:S:2436:LEU:HD13	4:S:2472:GLN:HB2	1.88	0.56
4:S:3958:LEU:HB3	4:S:4115:ASN:HB2	1.88	0.56
6:U:52:ASP:OD1	6:U:53:GLU:N	2.39	0.56
6:U:127:PHE:HB2	6:U:130:ARG:HH11	1.71	0.56
6:U:188:HIS:CE1	6:U:232:ARG:HG3	2.41	0.56
3:Q:4:LEU:HA	3:Q:28:PHE:HE2	1.71	0.55
4:F:71:LYS:HB2	4:F:82:ARG:CZ	2.36	0.55
4:F:2950:LYS:HE3	4:F:2984:GLY:HA2	1.88	0.55
4:F:4054:ALA:HA	4:F:4096:SER:HA	1.86	0.55
6:H:30:PRO:HA	6:H:33:GLN:HE21	1.71	0.55
6:H:402:ASN:OD1	6:H:404:GLN:NE2	2.39	0.55
6:H:600:VAL:HA	6:H:603:LYS:HG2	1.88	0.55
4:A:61:ARG:HH22	4:A:106:GLU:HG2	1.70	0.55
4:A:1013:ILE:HA	4:A:1029:CYS:HB3	1.88	0.55
4:A:1786:ALA:HB2	4:A:1827:LEU:HD12	1.87	0.55
4:S:4056:PRO:HA	4:S:4059:ILE:HB	1.88	0.55
5:T:320:GLN:HB2	5:T:327:ILE:HB	1.88	0.55
6:U:460:SER:HB2	6:U:525:LYS:HG3	1.88	0.55
6:U:679:VAL:HA	6:U:705:LEU:HG	1.88	0.55
3:X:211:VAL:HG23	3:X:212:MET:H	1.71	0.55
3:Y:7:GLY:HA2	3:Y:10:MET:HG3	1.87	0.55
1:K:136:GLU:C	1:L:138:GLN:H	2.13	0.55
4:F:542:ASP:OD1	4:F:543:SER:N	2.38	0.55
4:F:2510:LEU:HD13	4:F:2525:TRP:CD1	2.42	0.55
4:F:3558:ILE:O	4:F:3562:LEU:N	2.37	0.55
5:G:471:PHE:HA	5:G:517:ARG:HH12	1.72	0.55
4:A:1763:THR:HA	4:A:1766:LEU:HB3	1.89	0.55
4:A:3337:ILE:HD13	4:A:3360:LEU:HD13	1.88	0.55
5:B:239:LEU:HD23	5:B:239:LEU:H	1.72	0.55
4:S:79:ARG:HD3	4:S:126:PRO:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:198:ARG:HH22	5:T:312:LEU:H	1.55	0.55
4:S:1574:ASN:OD1	4:S:1578:ALA:N	2.34	0.55
4:S:2264:ASP:HB3	4:S:2309:PHE:CZ	2.41	0.55
4:S:2491:THR:O	4:S:2496:GLN:NE2	2.39	0.55
4:S:2582:SER:HB3	4:S:2780:LEU:HD13	1.89	0.55
6:U:447:THR:H	6:U:450:GLN:HB2	1.71	0.55
3:X:213:ASN:OD1	3:Y:147:GLN:NE2	2.38	0.55
1:K:158:VAL:HG12	1:L:158:VAL:HG22	1.89	0.55
2:M:821:ASP:OD2	2:M:871:ARG:NH1	2.39	0.55
2:P:819:TYR:N	2:P:862:HIS:O	2.30	0.55
3:Q:45:TRP:CH2	3:Q:104:LEU:HD13	2.41	0.55
4:F:704:PHE:HA	4:F:707:PHE:CD2	2.41	0.55
4:F:1249:SER:OG	4:F:1312:CYS:SG	2.60	0.55
4:F:1365:ASN:O	4:F:1370:ARG:NH2	2.34	0.55
4:F:2504:ASP:OD1	4:F:2508:GLN:NE2	2.38	0.55
4:F:2976:LEU:O	4:F:2979:GLN:NE2	2.26	0.55
6:H:362:LEU:O	6:H:421:TYR:N	2.37	0.55
4:A:206:THR:HG23	5:B:332:GLU:HB2	1.88	0.55
4:A:699:GLU:HB3	4:A:1442:GLN:HG2	1.88	0.55
4:A:998:ASN:HB3	4:A:1044:ILE:HG13	1.87	0.55
4:A:1646:LEU:HD23	4:A:1688:LEU:HG	1.87	0.55
5:B:35:ARG:N	5:B:162:SER:H	2.04	0.55
4:S:1078:ALA:CB	4:S:1128:CYS:HB2	2.37	0.55
4:S:1407:LYS:HA	4:S:1412:LYS:HB3	1.89	0.55
4:S:2164:TRP:O	4:S:2168:LEU:HG	2.07	0.55
4:S:2331:MET:O	4:S:2334:LYS:NZ	2.34	0.55
4:S:2923:TRP:HB3	4:S:2947:ILE:HG13	1.88	0.55
4:S:3415:THR:O	4:S:3419:PHE:HB2	2.06	0.55
4:S:3462:ARG:NH2	4:S:3498:TRP:H	2.03	0.55
4:S:3638:LYS:O	4:S:3642:LYS:HG2	2.06	0.55
4:S:3954:PRO:HA	4:S:4071:ALA:N	2.21	0.55
5:T:410:PHE:HB3	6:U:477:PHE:HE1	1.71	0.55
6:U:129:LYS:HZ1	6:U:131:HIS:HB2	1.71	0.55
6:U:405:VAL:O	6:U:424:LEU:N	2.34	0.55
7:V:21:DA:H1'	8:W:36:DG:H1'	1.88	0.55
1:L:97:PHE:O	1:L:107:ARG:NH1	2.38	0.55
1:N:194:LEU:HB3	1:O:194:LEU:HB3	1.88	0.55
2:P:777:VAL:O	2:P:781:ILE:HG13	2.06	0.55
2:P:848:HIS:HE1	2:P:898:ILE:HD13	1.70	0.55
4:F:175:TYR:HD1	4:F:225:LYS:HB3	1.69	0.55
4:F:345:PHE:HA	4:F:348:ILE:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:864:GLY:N	4:F:3168:TYR:O	2.39	0.55
4:F:1424:THR:HB	4:F:1426:GLN:NE2	2.21	0.55
4:F:2196:TRP:CD1	4:F:2200:ALA:HB3	2.42	0.55
4:F:2346:ALA:HA	4:F:2349:LEU:HD12	1.89	0.55
4:F:2792:THR:O	4:F:2795:GLN:HG2	2.06	0.55
4:F:2840:PHE:CD2	4:F:2858:ILE:HG23	2.42	0.55
4:F:3621:LYS:HA	4:F:3630:ARG:HD2	1.88	0.55
5:G:262:LYS:NZ	5:G:344:GLY:HA3	2.20	0.55
5:G:412:ALA:N	5:G:435:VAL:O	2.38	0.55
4:A:1818:SER:HB2	4:A:1822:ARG:HG3	1.88	0.55
4:A:2325:LEU:HD23	4:A:2328:ARG:HH12	1.71	0.55
4:A:3151:LEU:HD12	4:A:3193:ILE:HA	1.87	0.55
4:A:3361:GLU:N	4:A:3361:GLU:OE1	2.39	0.55
5:B:443:LYS:NZ	6:C:361:VAL:O	2.29	0.55
6:C:47:PHE:CZ	6:C:495:LEU:HB2	2.41	0.55
4:S:1750:LEU:HD22	4:S:1762:MET:HE3	1.87	0.55
4:S:1838:GLU:O	4:S:1841:SER:OG	2.23	0.55
4:S:2898:LEU:HD12	4:S:2901:LEU:HD21	1.88	0.55
5:T:122:PHE:HB3	5:T:131:PHE:HE1	1.71	0.55
6:U:38:ILE:HA	6:U:41:PHE:HB3	1.89	0.55
6:U:198:THR:HG22	6:U:200:GLN:H	1.71	0.55
1:K:18:HIS:HE2	1:K:43:TRP:HE3	1.55	0.55
2:M:767:ILE:HG21	2:M:773:GLN:HE22	1.71	0.55
4:F:977:ASP:OD1	4:F:978:GLN:N	2.40	0.55
4:F:1108:MET:HE2	4:F:1171:TRP:CH2	2.42	0.55
4:F:1675:TYR:O	4:F:1679:LEU:HG	2.06	0.55
4:F:2876:VAL:HG11	4:F:2892:LEU:HD23	1.88	0.55
4:F:3188:PHE:O	4:F:3192:LYS:HG2	2.05	0.55
4:F:3240:MET:HE1	4:F:3262:LEU:HD21	1.88	0.55
4:F:3571:PHE:HD1	4:F:3685:PRO:O	1.89	0.55
6:H:357:MET:N	6:H:357:MET:SD	2.80	0.55
4:A:1082:PHE:HE2	4:A:1133:HIS:HB2	1.72	0.55
4:A:1724:MET:O	4:A:1772:HIS:ND1	2.39	0.55
4:A:2543:ASN:O	4:A:2842:ARG:NH2	2.25	0.55
4:A:3015:SER:HB2	4:A:3044:MET:HE1	1.88	0.55
4:A:3530:VAL:HG23	4:A:3531:TYR:H	1.71	0.55
4:A:3759:ARG:HD2	4:A:4010:SER:HB2	1.88	0.55
4:S:153:PHE:HE2	4:S:188:GLU:HB3	1.70	0.55
4:S:2138:VAL:HG21	4:S:2146:LEU:HD11	1.87	0.55
4:S:2328:ARG:O	4:S:2333:ARG:NE	2.40	0.55
4:S:3152:SER:H	4:S:3197:LEU:C	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3486:GLU:HA	4:S:3514:VAL:HA	1.88	0.55
4:S:3576:ASP:HA	4:S:3800:LEU:HD22	1.88	0.55
5:T:297:LYS:N	6:U:296:CYS:O	2.39	0.55
5:T:387:ILE:HG23	6:U:438:LEU:HD23	1.86	0.55
5:T:500:PRO:HB2	5:T:502:GLN:OE1	2.05	0.55
6:U:46:VAL:HB	6:U:234:LEU:HD23	1.89	0.55
1:K:151:LEU:HD22	1:L:152:LEU:HA	1.88	0.55
1:L:5:ILE:HG23	1:L:19:PHE:HB3	1.88	0.55
2:P:863:VAL:HG23	2:P:888:ILE:HA	1.88	0.55
4:F:745:VAL:HG23	4:F:746:ARG:HD2	1.86	0.55
4:F:1264:LEU:HA	4:F:1267:TYR:HD2	1.72	0.55
4:F:1534:ASN:HB2	4:F:1556:GLY:H	1.71	0.55
4:F:1626:TRP:HZ2	4:F:1633:TRP:HD1	1.54	0.55
4:F:1677:SER:O	4:F:1681:ASP:N	2.37	0.55
4:F:1771:GLN:H	4:F:1775:GLU:CD	2.14	0.55
4:F:2815:GLY:HA2	4:F:2818:LYS:HZ2	1.71	0.55
4:F:2950:LYS:HG3	4:F:2994:TRP:CZ2	2.42	0.55
4:F:3118:ASP:C	4:F:3125:ARG:HH21	2.15	0.55
4:F:3998:LEU:HA	4:F:4001:THR:HG22	1.89	0.55
5:G:470:ARG:HH21	6:H:389:MET:HE1	1.70	0.55
6:H:340:PHE:HZ	6:H:408:ALA:HB2	1.71	0.55
4:A:913:ARG:HB3	4:A:2804:ILE:HD11	1.89	0.55
4:A:2219:LEU:O	4:A:2223:VAL:N	2.40	0.55
5:B:435:VAL:HA	6:C:353:ARG:HD2	1.89	0.55
4:S:197:PHE:HE2	4:S:243:GLN:HE22	1.53	0.55
4:S:323:VAL:O	4:S:327:VAL:HB	2.05	0.55
4:S:932:GLU:HG3	4:S:2775:TYR:CE2	2.41	0.55
4:S:1564:SER:O	4:S:1568:ASN:ND2	2.40	0.55
5:T:485:GLN:HA	5:T:488:ARG:HG2	1.88	0.55
1:L:160:GLY:O	1:L:164:LYS:HG2	2.06	0.55
1:N:27:THR:HG21	1:N:30:SER:HB3	1.89	0.55
3:Q:167:TYR:CD2	3:R:167:TYR:HB3	2.42	0.55
4:F:32:HIS:HA	4:F:35:ILE:HG22	1.89	0.55
4:F:847:SER:N	4:F:850:GLU:OE2	2.40	0.55
4:F:3266:SER:HA	4:F:3272:TRP:HB3	1.89	0.55
6:H:9:ALA:HB2	6:H:127:PHE:HB3	1.88	0.55
4:A:243:GLN:HA	4:A:282:PHE:HD1	1.71	0.55
4:A:656:GLN:O	4:A:660:LEU:N	2.32	0.55
4:A:2157:PHE:HB3	4:A:2164:TRP:CD1	2.41	0.55
4:A:2484:TYR:O	4:A:2489:SER:OG	2.24	0.55
4:A:2546:TYR:N	4:A:2842:ARG:HH22	2.03	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:65:GLN:OE1	5:B:123:LYS:NZ	2.40	0.55
5:B:247:ARG:NH1	5:B:491:GLU:OE1	2.35	0.55
9:D:40:DT:H5''	9:D:41:DT:N3	2.20	0.55
4:S:979:VAL:HG22	4:S:983:LEU:HD23	1.88	0.55
4:S:1711:ARG:NH1	4:S:1757:MET:HG2	2.22	0.55
4:S:1797:LEU:O	4:S:1801:VAL:HG22	2.06	0.55
5:T:403:ARG:CZ	5:T:406:ILE:HD13	2.36	0.55
1:O:193:SER:HA	1:O:196:ASN:HD22	1.71	0.55
3:Q:43:GLN:HG3	3:R:128:PRO:HB2	1.87	0.55
3:R:8:LEU:HD22	3:R:35:ALA:HB1	1.89	0.55
3:R:16:LEU:HD13	3:R:25:ALA:HB3	1.87	0.55
4:F:278:HIS:HB3	4:F:281:GLN:HB2	1.88	0.55
4:F:1713:VAL:HA	4:F:1716:GLN:CD	2.32	0.55
4:F:1760:GLU:HG2	4:F:1761:LEU:N	2.20	0.55
4:F:2506:LEU:HB3	4:F:2525:TRP:CZ2	2.42	0.55
5:G:238:LYS:O	5:G:242:LEU:HG	2.07	0.55
5:G:353:LEU:N	5:G:393:GLU:O	2.40	0.55
6:H:88:PHE:O	6:H:92:GLU:HG2	2.06	0.55
4:A:213:ARG:HH22	9:D:31:DA:P	2.30	0.55
4:A:1270:PHE:HB3	4:A:1276:VAL:HG12	1.89	0.55
4:A:1844:VAL:O	4:A:1848:ILE:HG12	2.07	0.55
4:A:2839:ASP:O	4:A:2842:ARG:HG2	2.07	0.55
4:A:3046:ARG:NH2	4:A:3180:ASP:OD2	2.39	0.55
4:A:3669:LYS:HA	4:A:3672:LYS:HD2	1.88	0.55
5:B:337:LEU:HD21	6:C:490:LEU:HB2	1.87	0.55
5:B:533:ASP:HA	6:C:373:ALA:HB2	1.87	0.55
4:S:238:MET:HE1	4:S:244:THR:HB	1.87	0.55
4:S:865:GLN:HB2	4:S:3168:TYR:HB3	1.89	0.55
4:S:932:GLU:CD	4:S:2772:TYR:H	2.15	0.55
4:S:1377:CYS:SG	4:S:1378:GLU:N	2.79	0.55
4:S:2738:LYS:NZ	7:V:44:DG:OP1	2.39	0.55
4:S:3090:TYR:HB2	4:S:3099:ALA:HB2	1.89	0.55
4:S:4055:ASN:HB2	4:S:4095:GLU:HA	1.87	0.55
5:T:489:ASN:HB3	6:U:331:MET:HG3	1.89	0.55
6:U:49:GLU:CB	6:U:238:LYS:HE3	2.30	0.55
1:L:93:CYS:HB3	1:L:113:LEU:O	2.07	0.55
1:L:178:LYS:NZ	2:M:787:GLN:H	2.05	0.55
3:Q:140:MET:HG3	3:R:41:LEU:HD22	1.89	0.55
3:R:153:LEU:HD23	3:R:156:LEU:HD12	1.89	0.55
4:F:93:LEU:HD21	4:F:136:GLN:HB3	1.88	0.55
4:F:1420:ARG:O	4:F:1424:THR:OG1	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1597:LEU:O	4:F:1601:LEU:HG	2.07	0.55
4:F:1626:TRP:HZ2	4:F:1633:TRP:CD1	2.25	0.55
4:F:2165:LEU:HD12	4:F:2200:ALA:HB1	1.89	0.55
4:F:2562:LEU:HD21	4:F:2812:LEU:HD22	1.89	0.55
5:G:67:ILE:HA	5:G:70:VAL:HG22	1.89	0.55
6:H:87:ASP:H	6:H:90:LEU:HB2	1.71	0.55
4:A:978:GLN:O	4:A:982:GLN:HB2	2.07	0.55
4:A:2480:ILE:O	4:A:2485:ARG:N	2.39	0.55
4:A:3528:ALA:O	4:A:3702:PRO:HA	2.07	0.55
4:S:756:PHE:CE1	4:S:769:GLY:HA3	2.41	0.55
4:S:785:MET:HA	4:S:788:TYR:CE1	2.42	0.55
4:S:1083:ASN:OD1	4:S:1133:HIS:NE2	2.39	0.55
4:S:1147:LYS:HZ3	4:S:1149:LYS:HD3	1.72	0.55
4:S:1862:THR:N	4:S:1864:ASP:OD1	2.39	0.55
4:S:3162:ASN:ND2	4:S:3234:CYS:SG	2.80	0.55
1:K:124:ARG:HA	1:K:127:ILE:HG12	1.89	0.55
4:F:246:ARG:HA	4:F:249:PHE:CD2	2.42	0.55
4:F:1709:GLU:HB2	4:F:1712:ARG:HH22	1.72	0.55
4:F:2579:HIS:NE2	4:A:944:LYS:O	2.40	0.55
4:F:2851:PHE:HB3	4:F:2854:PHE:HB3	1.88	0.55
4:A:317:GLU:HA	4:A:320:LEU:HD12	1.89	0.55
4:A:3315:TYR:HB2	4:A:3326:GLN:NE2	2.22	0.55
5:B:271:VAL:HG21	5:B:345:LEU:HD13	1.87	0.55
5:B:442:ASP:HB3	6:C:268:LEU:HD23	1.89	0.55
6:C:527:GLN:O	6:C:531:SER:N	2.36	0.55
4:S:114:VAL:HG13	4:S:119:ARG:HH21	1.72	0.55
4:S:643:GLU:O	4:S:646:VAL:HG22	2.07	0.55
4:S:1267:TYR:O	4:S:1271:ILE:HG12	2.07	0.55
4:S:1423:ILE:HG13	4:S:1425:ALA:H	1.72	0.55
4:S:2311:ARG:HB3	4:S:2315:VAL:HG21	1.88	0.55
4:S:3951:GLN:HB2	4:S:4067:GLY:H	1.70	0.55
5:T:52:GLN:HG3	5:T:62:MET:CE	2.36	0.55
2:M:682:ILE:O	2:M:687:GLY:N	2.40	0.54
2:M:833:ASN:HB3	2:M:836:THR:HG21	1.89	0.54
3:R:37:LEU:HD12	3:R:45:TRP:O	2.07	0.54
4:F:82:ARG:HG2	4:F:85:ILE:HD12	1.89	0.54
4:F:647:TYR:CE1	4:F:703:CYS:HB2	2.43	0.54
4:F:1073:PHE:HA	4:F:1076:LEU:HG	1.89	0.54
4:F:1099:PHE:CE2	4:F:1152:ARG:HD3	2.42	0.54
4:F:1795:VAL:O	4:F:1799:GLU:HG2	2.08	0.54
4:F:2595:TRP:HE3	4:F:2765:GLN:HB2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3523:ASP:HB2	4:F:3561:LYS:HD3	1.89	0.54
4:F:3826:ALA:O	4:F:3830:SER:HB3	2.08	0.54
5:G:92:LYS:HG2	5:G:135:MET:HG2	1.89	0.54
5:G:174:ASN:HA	5:G:217:TYR:HD2	1.71	0.54
4:A:14:ARG:HH21	4:A:17:GLU:HG3	1.72	0.54
4:A:200:PHE:HZ	4:A:227:LEU:HD13	1.72	0.54
4:A:1475:LEU:HD22	4:A:1527:ARG:HG3	1.89	0.54
4:A:1704:GLY:HA2	4:A:1707:LEU:HG	1.89	0.54
5:B:73:SER:HA	5:B:247:ARG:HD2	1.87	0.54
5:B:303:PHE:HA	5:B:310:LEU:HA	1.90	0.54
5:B:321:ILE:HA	5:B:326:GLN:HA	1.88	0.54
6:C:215:LEU:HG	6:C:216:GLU:HG3	1.88	0.54
9:D:26:DA:H4'	9:D:27:DC:H5'	1.89	0.54
4:S:468:LEU:HA	4:S:471:LYS:HE2	1.88	0.54
4:S:709:LYS:HZ1	4:S:1386:ILE:HB	1.72	0.54
4:S:992:ILE:HG23	4:S:1036:PHE:HA	1.89	0.54
4:S:1359:LEU:HA	4:S:1362:ASP:HB2	1.89	0.54
4:S:1779:GLN:HA	4:S:1782:PHE:HB2	1.89	0.54
4:S:1783:ARG:HA	4:S:1783:ARG:NH1	2.22	0.54
4:S:1881:TYR:CE1	4:S:1953:CYS:HB2	2.41	0.54
4:S:1960:LYS:O	4:S:1962:TYR:N	2.40	0.54
4:S:2101:VAL:HG11	4:S:2153:THR:HG22	1.88	0.54
4:S:2357:GLU:HA	4:S:2360:PHE:HB3	1.87	0.54
5:T:170:THR:O	5:T:205:LEU:HB3	2.06	0.54
5:T:288:LEU:HD12	6:U:322:PRO:HB3	1.88	0.54
3:X:221:VAL:HG13	3:X:222:THR:HG22	1.87	0.54
2:M:725:TRP:O	2:M:728:GLU:HG2	2.08	0.54
1:O:52:ILE:O	1:O:63:LYS:NZ	2.39	0.54
4:F:799:TYR:O	4:F:852:ARG:NH1	2.38	0.54
4:F:863:GLY:HA2	4:F:3167:ARG:O	2.07	0.54
4:F:992:ILE:HG13	4:F:1036:PHE:CD1	2.43	0.54
4:F:1304:HIS:HE1	4:F:1307:ILE:HG22	1.72	0.54
4:F:2154:GLU:HA	4:F:2157:PHE:CZ	2.42	0.54
4:F:2524:PHE:O	4:F:2530:ARG:NE	2.39	0.54
4:F:3913:ILE:HD13	4:F:4107:LEU:HD22	1.90	0.54
6:H:307:LYS:HA	6:H:310:ILE:HB	1.88	0.54
4:A:785:MET:HA	4:A:788:TYR:HB2	1.89	0.54
4:A:2356:MET:CE	4:A:2359:LYS:HB2	2.37	0.54
4:A:2507:ILE:HA	4:A:2510:LEU:HD23	1.88	0.54
4:A:2512:ASP:HB2	4:A:2518:GLN:HB3	1.90	0.54
4:A:3708:ARG:HD2	4:A:3789:ARG:HG3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:345:PHE:HB3	6:C:389:MET:HG3	1.89	0.54
4:S:672:ILE:O	4:S:676:ASN:ND2	2.40	0.54
4:S:1167:ASP:OD1	4:S:1170:LYS:NZ	2.38	0.54
4:S:2260:PHE:CD1	4:S:2303:LEU:HD21	2.43	0.54
4:S:2833:THR:HG21	4:S:2867:ALA:HB1	1.88	0.54
4:S:3870:SER:C	4:S:3874:ARG:HE	2.13	0.54
6:U:9:ALA:HB3	6:U:130:ARG:HA	1.87	0.54
8:W:18:DA:H2"	8:W:19:DA:C8	2.43	0.54
2:M:719:ASP:HA	2:M:746:MET:HA	1.90	0.54
2:M:844:GLU:HA	2:M:898:ILE:HD11	1.89	0.54
2:M:896:ASP:HB3	2:M:900:LYS:HE2	1.90	0.54
2:P:668:SER:HB3	2:P:702:ALA:HA	1.88	0.54
3:Q:13:TRP:CE2	3:Q:26:LYS:HD3	2.41	0.54
4:F:112:THR:HG21	4:F:152:LEU:HD22	1.89	0.54
4:F:1069:HIS:HB3	4:F:1074:LYS:CE	2.38	0.54
4:F:2723:THR:HA	4:F:2726:LEU:HD13	1.89	0.54
4:F:3036:TYR:O	4:F:3039:THR:OG1	2.21	0.54
6:H:11:VAL:HA	6:H:55:ALA:HB3	1.89	0.54
4:A:1658:SER:H	4:A:1698:PHE:HE2	1.56	0.54
4:A:2253:TYR:HD1	4:A:2256:ILE:HD11	1.72	0.54
4:A:3232:ARG:HB3	4:A:3272:TRP:CH2	2.42	0.54
4:A:3739:ILE:HA	4:A:3749:PRO:HA	1.90	0.54
4:A:3761:ASP:HA	4:A:3764:VAL:HB	1.89	0.54
5:B:418:GLU:HB3	5:B:430:PRO:HD3	1.88	0.54
6:C:197:ILE:HD12	6:C:202:LYS:HA	1.89	0.54
6:C:464:ALA:HA	6:C:476:LEU:H	1.72	0.54
4:S:537:SER:OG	4:S:561:ASN:ND2	2.28	0.54
4:S:864:GLY:N	4:S:3170:ASP:OD1	2.36	0.54
4:S:1349:LEU:HB2	4:S:1405:ALA:HB1	1.88	0.54
4:S:2328:ARG:HE	4:S:2370:SER:C	2.16	0.54
4:S:2995:GLU:O	4:S:2999:LEU:HG	2.07	0.54
4:S:3107:ILE:HA	4:S:3135:LEU:HD13	1.89	0.54
4:S:3418:ASP:OD2	4:S:3464:LYS:NZ	2.40	0.54
4:S:3736:LYS:HB2	4:S:3752:VAL:HB	1.89	0.54
4:S:3880:ALA:O	4:S:3885:ARG:NH2	2.40	0.54
5:T:57:LEU:HB2	5:T:62:MET:HB3	1.89	0.54
6:U:238:LYS:O	6:U:238:LYS:HG3	2.07	0.54
3:X:154:ALA:HB1	3:X:185:GLU:HA	1.89	0.54
1:K:21:GLN:O	1:K:35:THR:OG1	2.25	0.54
1:L:55:GLU:O	1:L:59:MET:HG2	2.08	0.54
1:O:183:VAL:O	1:O:187:LYS:HG2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:149:GLN:HE22	3:R:217:LEU:HD21	1.71	0.54
4:F:146:GLU:N	4:F:146:GLU:OE1	2.40	0.54
4:F:200:PHE:HE1	4:F:224:LEU:HD23	1.73	0.54
4:F:1157:PHE:HE1	4:F:1171:TRP:HB2	1.71	0.54
4:F:1662:ASN:HB2	4:F:1699:PHE:HA	1.88	0.54
4:F:1805:PHE:HD2	4:F:1806:ARG:HH11	1.55	0.54
4:F:2268:LYS:HG3	4:F:2311:ARG:NH2	2.23	0.54
4:F:2738:LYS:HD2	4:F:2742:MET:HE3	1.89	0.54
4:F:3574:ALA:C	4:F:3682:GLU:HA	2.32	0.54
5:G:351:LYS:HZ1	6:H:476:LEU:HB3	1.72	0.54
5:G:485:GLN:NE2	6:H:333:TYR:O	2.29	0.54
4:A:1817:GLN:OE1	4:A:1872:GLY:HA3	2.07	0.54
4:A:2091:HIS:O	4:A:2093:CYS:N	2.40	0.54
4:A:2349:LEU:HB3	4:A:2360:PHE:CE1	2.38	0.54
4:A:2449:VAL:O	4:A:2452:ARG:HD3	2.07	0.54
4:A:2514:ASN:OD1	4:A:2517:LEU:N	2.34	0.54
4:A:2886:GLN:HB3	4:A:2933:ILE:HD11	1.89	0.54
4:A:2933:ILE:HB	4:A:2935:GLU:OE1	2.08	0.54
4:A:3465:PHE:HA	4:A:3468:LEU:HB3	1.89	0.54
6:C:11:VAL:HB	6:C:118:ILE:HD11	1.89	0.54
4:S:2759:SER:O	4:S:2763:MET:HG2	2.07	0.54
4:S:3326:GLN:O	4:S:3330:LEU:N	2.41	0.54
5:T:318:ARG:NH1	5:T:331:LYS:HB2	2.22	0.54
5:T:335:GLU:HB3	5:T:405:ASN:HB2	1.89	0.54
6:U:405:VAL:HG23	6:U:424:LEU:HB2	1.88	0.54
3:Y:107:ARG:HB2	3:Y:109:ARG:HH11	1.73	0.54
1:N:57:ASP:HB3	3:Q:67:ALA:HB2	1.88	0.54
3:R:93:ALA:N	3:R:109:ARG:O	2.40	0.54
4:F:119:ARG:HD2	4:F:126:PRO:HB2	1.89	0.54
4:F:745:VAL:HA	4:F:748:TYR:CD2	2.43	0.54
4:F:894:PHE:HB2	4:F:907:LEU:HD11	1.88	0.54
4:F:898:PHE:HD2	4:F:903:PRO:HD2	1.73	0.54
4:F:1261:LEU:HG	4:F:1340:ARG:HG2	1.88	0.54
4:F:1481:THR:N	4:F:1527:ARG:HH22	2.03	0.54
4:F:1524:LEU:O	4:F:1528:LEU:HG	2.07	0.54
4:F:2986:PRO:O	4:F:2991:LYS:NZ	2.39	0.54
4:F:3034:PRO:O	4:F:3038:GLU:N	2.39	0.54
4:F:3575:LEU:HA	4:F:3681:LYS:O	2.07	0.54
4:F:3749:PRO:HB2	4:F:3805:TRP:CD1	2.43	0.54
5:G:67:ILE:HG13	5:G:119:LEU:HD21	1.90	0.54
5:G:90:THR:O	5:G:100:LYS:NZ	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:258:ARG:NH2	5:G:371:GLU:OE1	2.40	0.54
6:H:212:MET:HA	6:H:215:LEU:O	2.07	0.54
4:A:208:MET:HE3	4:A:220:LEU:HD22	1.89	0.54
4:A:989:MET:HE2	4:A:993:HIS:CE1	2.38	0.54
4:A:2432:GLN:O	4:A:2436:LEU:HG	2.07	0.54
4:A:2577:PHE:HB2	4:A:2783:ILE:O	2.08	0.54
4:A:3281:CYS:O	4:A:3285:HIS:ND1	2.41	0.54
4:S:1130:ALA:O	4:S:1134:LEU:HG	2.07	0.54
4:S:1331:ASN:ND2	4:S:1383:GLY:HA3	2.23	0.54
4:S:1649:LEU:HA	4:S:1652:ILE:HD12	1.89	0.54
4:S:2169:LEU:HD21	4:S:2211:LEU:HD12	1.88	0.54
4:S:2824:LYS:O	4:S:2829:LYS:NZ	2.39	0.54
4:S:3586:LYS:O	4:S:3591:ASP:N	2.41	0.54
6:U:33:GLN:HB2	6:U:227:PHE:CE1	2.41	0.54
2:M:715:SER:OG	2:M:717:LYS:NZ	2.41	0.54
2:M:876:LYS:HE3	2:M:879:ARG:HH11	1.72	0.54
1:N:162:PHE:CE1	1:O:161:ARG:HB3	2.42	0.54
2:P:740:PRO:HD3	2:P:758:TYR:CE2	2.43	0.54
2:P:746:MET:O	2:P:751:LYS:NZ	2.41	0.54
4:F:389:ILE:HG21	4:F:431:TYR:CD1	2.40	0.54
4:F:410:MET:O	4:F:414:LEU:HG	2.08	0.54
4:F:712:LYS:NZ	4:F:748:TYR:OH	2.40	0.54
4:F:1577:LEU:H	4:F:1577:LEU:HD12	1.73	0.54
4:F:1876:ILE:HG13	4:F:1877:LEU:HG	1.89	0.54
4:F:2160:TYR:HD2	4:F:2164:TRP:NE1	2.06	0.54
4:F:2470:ARG:NH1	4:F:2513:GLU:OE1	2.41	0.54
4:F:3450:MET:HE3	4:F:3450:MET:O	2.08	0.54
4:A:895:ALA:HB2	4:A:904:VAL:HG22	1.90	0.54
4:A:1218:SER:O	4:A:1221:ILE:HG22	2.07	0.54
4:A:1579:VAL:HG22	4:A:1625:HIS:CE1	2.42	0.54
4:A:3090:TYR:HA	4:A:3093:GLN:HB2	1.89	0.54
4:A:3520:GLU:O	4:A:3524:ASN:HB2	2.08	0.54
4:A:3571:PHE:HA	4:A:3687:MET:HE1	1.88	0.54
6:C:130:ARG:HB3	6:C:159:ILE:HA	1.89	0.54
4:S:108:LYS:NZ	4:S:145:ASP:O	2.37	0.54
4:S:1153:LEU:HD12	4:S:1154:PRO:HD2	1.90	0.54
4:S:2477:LEU:HG	4:S:2505:VAL:HG11	1.90	0.54
4:S:2880:CYS:O	4:S:2885:GLN:N	2.40	0.54
4:S:3137:GLU:HA	4:S:3140:GLU:HB2	1.89	0.54
4:S:3497:SER:HA	4:S:3706:ASP:HA	1.89	0.54
5:T:319:SER:HA	5:T:327:ILE:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:10:VAL:HA	6:U:131:HIS:HB3	1.90	0.54
1:N:153:ARG:NH2	1:N:154:ASP:OD1	2.39	0.54
2:P:682:ILE:HB	2:P:689:ILE:HD11	1.89	0.54
3:Q:13:TRP:HB2	3:Q:211:VAL:HG12	1.90	0.54
3:R:75:HIS:CD2	3:R:85:LYS:HE2	2.43	0.54
4:F:935:HIS:NE2	4:F:987:LEU:HD13	2.23	0.54
4:F:2840:PHE:HA	4:F:2843:PHE:CD2	2.42	0.54
4:F:2950:LYS:HG3	4:F:2994:TRP:HZ2	1.72	0.54
4:F:3051:LEU:HD23	4:F:3054:GLN:NE2	2.23	0.54
4:A:31:GLY:O	4:A:35:ILE:HG23	2.07	0.54
4:A:111:CYS:HB2	4:A:130:LEU:HD13	1.89	0.54
4:A:1841:SER:HA	4:A:1896:ILE:HG23	1.89	0.54
4:A:3530:VAL:CG2	4:A:3702:PRO:HB3	2.38	0.54
4:S:344:GLN:HB3	4:S:366:TYR:HD1	1.73	0.54
4:S:562:HIS:NE2	4:S:644:PRO:HG2	2.22	0.54
4:S:1260:LEU:HD12	4:S:1264:LEU:HD13	1.89	0.54
4:S:2263:LYS:HE3	4:S:2265:PRO:HG3	1.90	0.54
4:S:3951:GLN:H	4:S:4068:HIS:N	2.05	0.54
5:T:44:ALA:HB3	5:T:89:GLY:O	2.08	0.54
5:T:327:ILE:HD11	6:U:494:LEU:HD23	1.90	0.54
6:U:38:ILE:HG13	6:U:94:ILE:HG21	1.89	0.54
2:P:800:GLU:HG2	2:P:805:TRP:HB2	1.89	0.54
2:P:896:ASP:O	2:P:902:GLU:N	2.35	0.54
4:F:162:LEU:HG	4:F:164:LYS:H	1.73	0.54
4:F:847:SER:O	4:F:851:ILE:HG12	2.06	0.54
4:F:938:VAL:HA	4:F:941:MET:HG3	1.89	0.54
4:F:1264:LEU:O	4:F:1268:ASN:ND2	2.40	0.54
4:F:1457:GLN:HG2	4:F:1460:ARG:NH2	2.23	0.54
4:F:3614:TYR:O	4:F:3619:ASP:N	2.41	0.54
5:G:281:LEU:HD23	5:G:281:LEU:H	1.73	0.54
6:H:426:PHE:HB3	6:H:428:GLU:HG2	1.90	0.54
6:H:687:THR:HG21	6:H:701:ALA:HB3	1.90	0.54
8:J:17:DT:H2"	8:J:18:DA:N6	2.22	0.54
4:A:103:TYR:O	4:A:106:GLU:HG3	2.08	0.54
4:A:1102:GLU:OE1	4:A:1152:ARG:NH2	2.41	0.54
4:A:1372:LEU:O	4:A:1375:THR:HG22	2.08	0.54
4:A:1394:HIS:O	4:A:1398:VAL:N	2.31	0.54
4:A:3494:GLN:HA	4:A:3709:GLY:HA2	1.90	0.54
6:C:47:PHE:HZ	6:C:495:LEU:HB2	1.73	0.54
6:C:138:LEU:HB3	6:C:201:GLN:HA	1.89	0.54
4:S:1038:LYS:HA	4:S:1041:ILE:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1184:ARG:NE	4:S:1262:ALA:HA	2.23	0.54
4:S:2471:GLU:HG3	4:S:2517:LEU:HD21	1.90	0.54
4:S:3052:LEU:HD11	4:S:3059:GLN:HA	1.90	0.54
4:S:3358:ARG:O	4:S:3362:LEU:N	2.40	0.54
4:S:3410:ILE:HA	4:S:3413:TYR:HB2	1.90	0.54
4:S:3837:CYS:SG	4:S:3874:ARG:HG3	2.48	0.54
5:T:254:ARG:NH2	8:W:25:DT:O2	2.40	0.54
5:T:300:THR:HA	6:U:293:THR:HA	1.90	0.54
5:T:347:LEU:HD13	5:T:398:CYS:HA	1.89	0.54
5:T:376:ILE:N	6:U:540:ILE:O	2.36	0.54
5:T:397:LEU:HD21	6:U:477:PHE:CG	2.42	0.54
6:U:84:MET:HE1	6:U:86:PRO:HA	1.89	0.54
2:M:711:ASN:HB2	6:C:330:GLN:HE22	1.72	0.54
2:M:865:ILE:HG21	2:M:869:HIS:HA	1.88	0.54
2:M:905:GLU:HB2	2:M:908:GLN:HG3	1.89	0.54
4:F:32:HIS:O	4:F:35:ILE:HG22	2.07	0.54
4:F:936:SER:HB3	4:F:2773:ARG:HD2	1.90	0.54
4:F:1040:SER:OG	4:F:1041:ILE:N	2.41	0.54
4:F:2533:SER:HA	4:F:2538:ARG:HE	1.72	0.54
6:H:135:PHE:HD2	6:H:166:PRO:HA	1.73	0.54
6:H:677:ILE:HA	6:H:680:GLN:HG2	1.89	0.54
4:A:200:PHE:HE2	4:A:227:LEU:HD22	1.73	0.54
4:A:1200:GLY:HA3	4:A:1207:TRP:HE1	1.72	0.54
4:A:2353:GLN:O	4:A:2357:GLU:HB3	2.08	0.54
6:C:114:SER:O	6:C:118:ILE:HG12	2.08	0.54
6:C:485:PRO:HB3	6:C:512:ILE:HB	1.90	0.54
4:S:468:LEU:HB2	4:S:474:VAL:HG12	1.90	0.54
4:S:883:TYR:HB2	4:S:3892:THR:HG21	1.90	0.54
4:S:1619:ALA:HA	4:S:1622:ILE:HG22	1.89	0.54
4:S:1693:VAL:O	4:S:1696:LEU:N	2.40	0.54
4:S:3583:LEU:HD13	4:S:3755:GLY:H	1.71	0.54
4:S:3768:PHE:CE1	4:S:3918:LEU:HB3	2.42	0.54
4:S:3915:HIS:CE1	4:S:3962:ARG:HG2	2.42	0.54
5:T:52:GLN:HG3	5:T:62:MET:HE1	1.88	0.54
3:Q:97:CYS:SG	3:Q:98:ASP:N	2.81	0.54
4:F:1060:PHE:HZ	4:F:1095:LEU:HD13	1.72	0.54
4:F:1258:ASP:OD1	4:F:1259:LEU:N	2.41	0.54
4:F:2126:MET:HA	4:F:2129:LEU:HG	1.90	0.54
4:F:2786:LYS:NZ	4:F:2788:SER:HB2	2.23	0.54
4:F:3462:ARG:HD3	4:F:3494:GLN:HB2	1.89	0.54
6:H:45:GLN:O	6:H:49:GLU:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:108:LEU:HB2	6:H:146:GLN:HB3	1.90	0.54
6:H:315:ARG:HH11	6:H:320:ILE:HG13	1.72	0.54
6:H:396:ALA:HA	6:H:403:PRO:HA	1.89	0.54
4:A:294:PHE:O	4:A:298:LEU:HG	2.08	0.54
4:A:381:VAL:HA	4:A:384:MET:HE2	1.88	0.54
4:A:1277:GLY:H	4:A:1280:GLN:HB3	1.73	0.54
4:A:2161:ALA:HA	4:A:2164:TRP:HB2	1.90	0.54
4:S:82:ARG:HA	4:S:85:ILE:HD12	1.89	0.54
4:S:1058:SER:HA	4:S:1061:LYS:HE2	1.89	0.54
4:S:1360:LYS:O	4:S:1360:LYS:NZ	2.37	0.54
4:S:1787:ARG:HE	4:S:1830:HIS:HE1	1.53	0.54
4:S:2416:LYS:HB3	5:T:97:VAL:HG23	1.89	0.54
4:S:4055:ASN:HB3	4:S:4058:VAL:HB	1.90	0.54
5:T:147:LEU:HB2	5:T:189:LYS:HZ3	1.73	0.54
5:T:428:THR:HG22	6:U:355:PHE:HE2	1.72	0.54
5:T:433:GLN:HG3	6:U:354:ARG:HB2	1.90	0.54
5:T:484:GLN:HB2	5:T:488:ARG:NH2	2.23	0.54
6:U:184:ARG:NE	6:U:515:MET:O	2.38	0.54
6:U:695:SER:O	6:U:699:GLU:HG2	2.08	0.54
1:K:44:THR:O	1:K:114:GLU:N	2.34	0.53
1:L:16:ILE:HG12	1:L:38:ASP:HB2	1.89	0.53
1:L:47:VAL:HG11	1:L:113:LEU:HD23	1.90	0.53
2:M:887:LYS:HD3	2:M:911:ILE:HG12	1.89	0.53
3:R:25:ALA:HB1	3:R:36:LEU:HD11	1.90	0.53
4:F:409:GLN:NE2	4:F:410:MET:SD	2.81	0.53
4:F:729:CYS:O	4:F:733:LEU:HD23	2.08	0.53
4:F:962:TYR:HA	4:F:965:THR:HB	1.89	0.53
4:F:2981:TRP:HB3	4:F:2984:GLY:HA3	1.89	0.53
4:F:3240:MET:SD	4:F:3275:SER:HB2	2.48	0.53
4:F:3610:TYR:CE2	4:F:3641:ASP:HB3	2.43	0.53
5:G:480:ASN:HB3	5:G:483:LEU:HD12	1.90	0.53
6:H:61:THR:HG21	6:H:65:ASP:HB2	1.91	0.53
4:A:129:ASP:HA	4:A:132:ILE:HD12	1.89	0.53
4:A:275:PHE:O	4:A:279:ALA:N	2.41	0.53
4:A:322:GLN:O	4:A:326:MET:HG2	2.08	0.53
4:A:1367:HIS:O	4:A:1371:VAL:HG23	2.08	0.53
4:A:2323:LEU:HD13	4:A:2345:VAL:HG21	1.90	0.53
4:A:2426:HIS:CD2	4:A:2431:ARG:HD2	2.43	0.53
4:A:2815:GLY:HA2	4:A:2818:LYS:HE2	1.90	0.53
4:A:3528:ALA:O	4:A:3530:VAL:HG13	2.09	0.53
4:S:131:LEU:HD22	4:S:174:VAL:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:559:SER:OG	4:S:560:LEU:N	2.40	0.53
4:S:647:TYR:O	4:S:651:TYR:N	2.41	0.53
4:S:913:ARG:O	4:S:916:GLU:HG3	2.07	0.53
4:S:923:ASP:O	4:S:926:THR:N	2.41	0.53
4:S:2893:LEU:O	4:S:2897:LEU:HB2	2.07	0.53
4:S:3005:LEU:O	4:S:3007:GLU:N	2.40	0.53
4:S:3190:LEU:HD13	4:S:3234:CYS:HB3	1.90	0.53
4:S:3324:ARG:HA	4:S:3388:ALA:HA	1.88	0.53
6:U:161:LEU:HB3	6:U:211:VAL:HG21	1.90	0.53
1:K:20:LEU:HD11	1:K:34:ILE:HD11	1.89	0.53
1:N:161:ARG:HD2	2:P:844:GLU:HG2	1.89	0.53
4:F:67:VAL:HG21	4:F:85:ILE:HD13	1.89	0.53
4:F:566:ASP:O	4:F:570:LYS:HG2	2.08	0.53
4:F:730:LEU:HD11	4:F:765:LEU:HD11	1.90	0.53
4:F:896:VAL:N	4:F:903:PRO:O	2.41	0.53
4:F:1668:PHE:O	4:F:1672:PHE:CB	2.56	0.53
4:F:2394:LYS:O	4:F:2398:LEU:HG	2.08	0.53
4:F:2749:ALA:O	4:F:2753:ARG:NH1	2.42	0.53
4:F:3030:ILE:O	4:F:3037:GLN:NE2	2.40	0.53
5:G:163:HIS:CE1	5:G:165:ARG:HB2	2.41	0.53
5:G:401:THR:HA	5:G:408:PRO:HA	1.91	0.53
5:G:482:VAL:HA	5:G:485:GLN:NE2	2.23	0.53
4:A:141:SER:OG	4:A:144:MET:SD	2.65	0.53
4:A:251:PHE:HE2	6:C:553:ILE:HB	1.72	0.53
4:A:1022:ASP:OD1	4:A:1025:LEU:N	2.40	0.53
4:A:1112:ALA:HB1	4:A:1180:GLN:HE22	1.72	0.53
4:A:1377:CYS:SG	4:A:1378:GLU:N	2.82	0.53
4:A:1406:LEU:HD22	4:A:1411:TYR:HB2	1.88	0.53
4:A:3101:TYR:HA	4:A:3104:GLN:HE21	1.72	0.53
4:A:3544:ASP:OD1	4:A:3548:GLY:N	2.40	0.53
4:A:3572:ILE:HG23	4:A:3799:ARG:HE	1.74	0.53
5:B:336:GLU:CD	5:B:405:ASN:HD21	2.17	0.53
6:C:80:HIS:CD2	6:C:97:LYS:HD2	2.43	0.53
6:C:355:PHE:HB3	6:C:425:PRO:HD3	1.89	0.53
6:C:426:PHE:H	6:C:429:ASP:HB2	1.73	0.53
4:S:275:PHE:CD2	4:S:315:ALA:HB1	2.42	0.53
4:S:473:PRO:HA	4:S:476:ARG:HH21	1.73	0.53
4:S:573:LEU:HB2	4:S:649:PHE:HE1	1.72	0.53
4:S:831:LEU:HD12	4:S:834:LEU:HD23	1.90	0.53
4:S:1092:GLU:HG3	4:S:1096:VAL:HG13	1.89	0.53
4:S:1115:HIS:HA	4:S:1119:LYS:HD3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1191:PHE:O	4:S:1195:VAL:HG23	2.08	0.53
4:S:1407:LYS:HD2	4:S:1463:LEU:HD22	1.90	0.53
4:S:2532:PRO:HB2	4:S:2537:ASP:HB3	1.90	0.53
4:S:3179:TRP:CD2	4:S:3245:SER:HB2	2.43	0.53
4:S:3255:ALA:HB1	4:S:3258:LEU:HD23	1.90	0.53
4:S:3442:TYR:HB3	4:S:3443:PRO:HD3	1.90	0.53
4:S:3581:PRO:HD3	4:S:3629:ARG:HD2	1.91	0.53
4:S:3704:GLN:HB3	4:S:3750:PHE:HE2	1.72	0.53
4:S:4060:THR:HB	4:S:4081:ALA:HB1	1.91	0.53
1:L:158:VAL:HA	1:L:161:ARG:HG2	1.90	0.53
3:Q:4:LEU:HA	3:Q:28:PHE:CE2	2.44	0.53
3:Q:176:ARG:HG2	3:Q:178:ARG:H	1.73	0.53
4:F:1504:ASP:HB3	4:F:1507:CYS:HB2	1.91	0.53
4:F:1715:GLU:HA	4:F:1718:ILE:HG12	1.89	0.53
4:F:3482:LEU:HD23	4:F:3485:LYS:HE2	1.90	0.53
4:F:3593:ARG:NE	4:F:3661:ASP:OD1	2.39	0.53
6:H:341:SER:C	6:H:393:VAL:HG23	2.33	0.53
6:H:627:ASN:HA	6:H:673:HIS:CD2	2.44	0.53
4:A:38:LEU:HD23	4:A:84:GLU:HB3	1.91	0.53
5:B:362:LEU:HB3	6:C:361:VAL:HG23	1.90	0.53
5:B:370:PRO:HB3	5:B:382:PHE:CD2	2.43	0.53
4:S:1390:GLN:HG2	4:S:1394:HIS:HB2	1.89	0.53
4:S:1839:PHE:O	4:S:1843:ILE:HG12	2.09	0.53
4:S:3137:GLU:HG3	4:S:3182:ILE:HD13	1.88	0.53
4:S:3178:ILE:O	4:S:3182:ILE:HG12	2.09	0.53
4:S:4056:PRO:O	4:S:4060:THR:OG1	2.22	0.53
5:T:94:LYS:NZ	5:T:104:VAL:O	2.31	0.53
5:T:193:LEU:HB2	5:T:198:ILE:HB	1.90	0.53
6:U:270:GLU:HB3	6:U:487:PHE:CE2	2.42	0.53
1:N:59:MET:HE2	1:N:61:MET:HE2	1.89	0.53
4:F:67:VAL:HA	4:F:71:LYS:HE2	1.90	0.53
4:F:428:PRO:HB2	4:F:431:TYR:CD2	2.43	0.53
4:F:472:GLY:C	4:F:476:ARG:HE	2.16	0.53
4:F:865:GLN:HE22	4:F:3171:ALA:N	2.01	0.53
4:F:1064:TYR:CD1	4:F:1106:ILE:HG13	2.43	0.53
4:F:1087:ARG:HA	4:F:1090:ARG:CZ	2.37	0.53
4:F:1144:SER:HA	4:F:1147:LYS:HE3	1.90	0.53
4:F:1740:VAL:HA	4:F:1743:MET:HE3	1.90	0.53
4:F:2435:CYS:O	4:F:2439:ILE:HG12	2.08	0.53
4:F:2746:LYS:O	4:F:2750:GLU:HG2	2.09	0.53
4:F:4115:ASN:OD1	4:F:4116:ILE:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:240:GLU:HB3	5:G:244:ARG:HH12	1.74	0.53
6:H:608:SER:HA	6:H:651:GLU:HB3	1.90	0.53
4:A:699:GLU:HG3	4:A:700:LYS:HG3	1.91	0.53
4:A:1464:LEU:O	4:A:1468:LEU:N	2.32	0.53
4:A:1766:LEU:HD21	4:A:1822:ARG:HB2	1.91	0.53
4:A:2349:LEU:HA	4:A:2352:HIS:CE1	2.43	0.53
4:A:2580:PRO:HB3	4:A:2784:GLN:HE22	1.73	0.53
4:A:2941:GLY:O	4:A:2945:SER:OG	2.26	0.53
5:B:348:MET:HE2	5:B:397:LEU:HG	1.90	0.53
5:B:458:GLN:HB3	5:B:462:MET:HE1	1.91	0.53
6:C:497:ARG:HE	6:C:504:PRO:HA	1.73	0.53
4:S:639:ALA:HA	4:S:642:PHE:HB3	1.90	0.53
4:S:1006:THR:HG21	4:S:1053:PRO:HD2	1.91	0.53
4:S:1163:LEU:HD22	4:S:1168:LEU:HD21	1.91	0.53
4:S:3583:LEU:HD21	4:S:3734:ARG:HD3	1.91	0.53
5:T:257:SER:OG	7:V:32:DA:N6	2.28	0.53
6:U:311:ILE:HG13	6:U:324:SER:HB3	1.91	0.53
1:K:148:ASN:ND2	1:L:151:LEU:HD12	2.23	0.53
2:M:721:VAL:HA	2:M:743:MET:HG2	1.90	0.53
3:Q:57:ARG:HD2	3:Q:122:HIS:HB3	1.89	0.53
3:R:26:LYS:HE3	3:R:39:SER:HB2	1.90	0.53
4:F:800:LEU:HD12	4:F:852:ARG:HD2	1.90	0.53
4:F:3082:TYR:O	4:F:3086:LEU:HG	2.09	0.53
4:F:3263:HIS:O	4:F:3267:LYS:NZ	2.30	0.53
4:F:3878:VAL:HB	4:F:4127:TRP:HB2	1.89	0.53
5:G:39:ILE:HB	5:G:166:ILE:HD13	1.89	0.53
5:G:89:GLY:HA2	5:G:141:TYR:HA	1.91	0.53
5:G:289:TYR:CE1	5:G:291:GLU:HB3	2.44	0.53
6:H:185:LEU:O	6:H:515:MET:HA	2.08	0.53
6:H:319:ASP:OD1	6:H:320:ILE:N	2.38	0.53
6:H:397:TYR:HB3	6:H:401:ALA:HB3	1.90	0.53
4:A:1572:LEU:HD22	4:A:1614:GLN:HG2	1.91	0.53
4:A:1804:MET:HA	4:A:1807:LYS:HD3	1.91	0.53
4:A:2952:ILE:HD12	4:A:2981:TRP:HH2	1.74	0.53
4:A:3592:VAL:HG12	4:A:3596:LEU:HD23	1.90	0.53
4:A:3951:GLN:OE1	4:A:4067:GLY:N	2.41	0.53
4:A:4056:PRO:HG3	4:A:4098:LEU:HD12	1.90	0.53
4:A:4074:PHE:HA	4:A:4077:TYR:HD2	1.73	0.53
5:B:352:PRO:HA	5:B:394:VAL:HA	1.89	0.53
4:S:826:PHE:N	4:S:832:LYS:HZ3	2.06	0.53
4:S:2228:ARG:HH12	7:V:44:DG:H4'	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2386:LEU:H	4:S:2418:LYS:NZ	2.07	0.53
4:S:2524:PHE:O	4:S:2530:ARG:NE	2.38	0.53
4:S:3068:ALA:HB1	4:S:3074:GLN:HB3	1.90	0.53
4:S:3428:GLU:OE2	4:S:3474:ARG:NH2	2.41	0.53
4:S:3617:LEU:HA	4:S:3633:ILE:HG22	1.91	0.53
4:S:3775:LEU:HD11	4:S:3914:SER:HB3	1.90	0.53
3:X:44:VAL:HG23	3:Y:132:SER:HB3	1.91	0.53
1:K:18:HIS:HA	1:K:38:ASP:HA	1.90	0.53
1:N:60:ALA:HB1	3:Q:75:HIS:HB2	1.91	0.53
3:R:38:VAL:HB	3:R:45:TRP:HB2	1.90	0.53
3:R:184:PHE:HZ	3:R:189:PHE:HB2	1.74	0.53
4:F:15:LEU:HA	4:F:19:LEU:HD23	1.91	0.53
4:F:1003:SER:HA	4:F:1006:THR:HG23	1.91	0.53
4:F:1870:LYS:HA	4:F:1873:TYR:CD2	2.44	0.53
4:F:2389:PHE:CD1	4:F:2393:LEU:HB3	2.44	0.53
4:F:3778:ASP:OD1	4:F:3779:SER:N	2.40	0.53
8:J:28:DA:C8	8:J:29:DG:N1	2.77	0.53
4:A:1733:THR:HG23	4:A:1736:PHE:H	1.73	0.53
4:A:1831:CYS:SG	4:A:1832:SER:N	2.82	0.53
4:A:2952:ILE:HG23	4:A:2971:GLN:HB3	1.90	0.53
5:B:50:GLU:CD	5:B:171:ASN:HD22	2.17	0.53
6:C:45:GLN:O	6:C:50:ASN:N	2.42	0.53
4:S:1576:ASP:HA	4:S:1579:VAL:HB	1.91	0.53
4:S:1679:LEU:HD13	4:S:1714:LEU:HD11	1.89	0.53
4:S:2227:LYS:HB2	4:S:2230:VAL:HG22	1.90	0.53
4:S:3308:ASP:OD2	4:S:3326:GLN:NE2	2.42	0.53
4:S:3589:SER:HB3	4:S:3661:ASP:HA	1.91	0.53
4:S:3793:VAL:HG12	4:S:3803:ILE:HA	1.89	0.53
5:T:61:ASP:OD2	5:T:125:GLN:NE2	2.40	0.53
5:T:286:ILE:HD12	6:U:320:ILE:HG21	1.90	0.53
5:T:339:ARG:NH2	5:T:343:PRO:HD3	2.23	0.53
5:T:391:GLU:HG3	6:U:458:ILE:HG13	1.91	0.53
1:L:138:GLN:O	1:L:141:ASN:HB3	2.09	0.53
2:M:820:LEU:HD23	2:M:822:SER:HB2	1.89	0.53
1:N:18:HIS:CE1	1:N:38:ASP:HB3	2.44	0.53
4:F:183:GLU:HG2	4:F:184:VAL:H	1.73	0.53
4:F:863:GLY:O	4:F:867:ASN:N	2.26	0.53
4:F:939:MET:HE2	4:F:2782:ASP:C	2.33	0.53
4:F:1228:GLY:C	4:F:1233:SER:HB2	2.34	0.53
5:G:45:SER:HA	5:G:139:SER:H	1.74	0.53
7:I:22:DA:H1'	7:I:23:DT:C4	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1258:ASP:HA	4:A:1261:LEU:HD12	1.90	0.53
4:A:1603:GLN:OE1	4:A:1606:ARG:NH2	2.40	0.53
4:A:2151:ILE:HA	4:A:2192:THR:HG21	1.89	0.53
4:A:3361:GLU:HB3	4:A:3366:SER:HA	1.90	0.53
9:D:26:DA:H2'	9:D:26:DA:N3	2.22	0.53
4:S:250:ASN:HB3	4:S:296:VAL:HG21	1.91	0.53
4:S:799:TYR:CE2	4:S:858:MET:HE3	2.44	0.53
4:S:1086:TYR:CE1	4:S:1089:PHE:HB3	2.44	0.53
4:S:1724:MET:HB2	4:S:1768:ARG:HB3	1.91	0.53
2:M:812:MET:SD	2:M:848:HIS:ND1	2.82	0.53
1:O:41:SER:HA	1:O:119:PRO:HB3	1.90	0.53
2:P:863:VAL:HG13	2:P:886:PHE:HB3	1.90	0.53
4:F:493:LYS:O	4:F:625:ASN:ND2	2.40	0.53
4:F:966:PHE:HB2	4:F:1011:GLU:CD	2.34	0.53
4:F:1731:PRO:HA	4:F:1736:PHE:CD2	2.44	0.53
4:F:2158:ARG:NH1	4:F:2195:SER:O	2.38	0.53
4:F:3356:ALA:O	4:F:3360:LEU:HG	2.08	0.53
4:F:3532:PRO:HA	4:F:3535:ILE:HG22	1.91	0.53
5:G:129:LYS:HA	5:G:132:GLN:HG2	1.90	0.53
5:G:288:LEU:O	6:H:311:ILE:N	2.25	0.53
4:A:480:SER:HA	4:A:483:VAL:HG22	1.89	0.53
4:A:688:PRO:HA	4:A:701:TYR:HE1	1.72	0.53
4:A:936:SER:HB2	4:A:2790:LEU:HD12	1.91	0.53
4:A:2387:PRO:O	5:B:158:GLN:NE2	2.42	0.53
4:A:2959:ALA:HB3	4:A:2968:ALA:HB2	1.91	0.53
4:A:3291:GLN:HG3	4:A:3348:LEU:HD11	1.91	0.53
4:A:3756:GLU:HB3	4:A:4023:LYS:HG2	1.90	0.53
4:A:3884:LYS:HZ1	4:A:3973:PRO:HD3	1.73	0.53
9:D:38:DT:H1'	9:D:39:DA:H5'	1.91	0.53
4:S:566:ASP:O	4:S:570:LYS:HG2	2.07	0.53
4:S:1783:ARG:NH2	4:S:1830:HIS:HB2	2.24	0.53
4:S:2260:PHE:HA	4:S:2270:ASN:HB2	1.91	0.53
4:S:2398:LEU:HD11	4:S:2423:VAL:HG21	1.91	0.53
4:S:2446:LEU:HD23	4:S:2451:LEU:HD13	1.90	0.53
5:T:46:LYS:HE2	5:T:138:GLY:HA2	1.89	0.53
5:T:71:TYR:O	5:T:75:ILE:HG13	2.09	0.53
5:T:339:ARG:HH21	5:T:343:PRO:HD3	1.73	0.53
5:T:403:ARG:H	5:T:406:ILE:HD11	1.74	0.53
5:T:498:MET:HE3	5:T:498:MET:O	2.09	0.53
1:O:8:ILE:HG13	1:O:18:HIS:O	2.08	0.53
2:P:740:PRO:HG2	2:P:762:GLY:HA2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:86:LEU:HB3	4:F:129:ASP:HB3	1.91	0.53
4:F:192:ASN:O	4:F:196:LEU:HG	2.09	0.53
4:F:642:PHE:CD1	4:F:645:TRP:HB2	2.44	0.53
4:F:702:SER:O	4:F:706:LEU:HG	2.09	0.53
4:F:919:LEU:HD12	4:F:971:ARG:NH2	2.18	0.53
4:F:1759:LEU:HD22	4:F:1797:LEU:HG	1.90	0.53
4:F:2349:LEU:O	4:F:2353:GLN:HB2	2.09	0.53
4:F:2452:ARG:HD2	4:F:2494:ASP:CB	2.39	0.53
4:F:2585:GLU:HB2	4:F:2779:ASP:H	1.73	0.53
5:G:71:TYR:HA	5:G:74:LYS:HE2	1.91	0.53
5:G:398:CYS:SG	5:G:399:ARG:N	2.82	0.53
5:G:489:ASN:HD22	5:G:500:PRO:HG2	1.73	0.53
6:H:352:GLN:OE1	6:H:354:ARG:NE	2.42	0.53
6:H:621:GLU:O	6:H:623:PHE:N	2.40	0.53
4:A:299:LYS:O	4:A:303:HIS:ND1	2.41	0.53
4:A:1139:GLU:O	4:A:1142:HIS:ND1	2.42	0.53
4:A:1256:TRP:HA	4:A:1259:LEU:HD12	1.91	0.53
4:A:1625:HIS:HA	4:A:1627:LYS:HG2	1.90	0.53
4:A:1760:GLU:HB2	4:A:1804:MET:HG2	1.90	0.53
4:A:3483:MET:HA	4:A:3486:GLU:HB2	1.91	0.53
4:A:3810:VAL:HG12	4:A:3932:MET:SD	2.49	0.53
5:B:263:LEU:HD11	5:B:267:ILE:HG13	1.90	0.53
5:B:269:ILE:HD12	5:B:381:LEU:HD23	1.91	0.53
4:S:110:THR:O	4:S:114:VAL:HG23	2.09	0.53
4:S:215:PRO:HB2	4:S:217:LEU:HD22	1.91	0.53
4:S:1035:GLU:O	4:S:1039:TRP:HB2	2.09	0.53
4:S:1685:ASP:O	4:S:1689:LYS:N	2.32	0.53
4:S:1833:LEU:HD23	4:S:1884:LEU:HG	1.89	0.53
4:S:1935:GLU:HG2	4:S:1939:LEU:HG	1.91	0.53
4:S:1948:ALA:HA	4:S:1951:VAL:HG22	1.91	0.53
4:S:2253:TYR:O	4:S:2299:TYR:OH	2.20	0.53
4:S:4011:PHE:O	4:S:4015:ASN:N	2.32	0.53
5:T:203:MET:HA	5:T:211:PHE:HE1	1.73	0.53
3:X:149:GLN:HA	3:X:152:GLU:HB2	1.90	0.53
1:K:169:LYS:HB2	1:L:169:LYS:HB2	1.91	0.53
4:F:2356:MET:HE1	4:F:2360:PHE:H	1.73	0.53
4:F:2570:PRO:HG2	4:A:902:LYS:HE2	1.91	0.53
4:F:3811:THR:HG23	4:F:3814:ASP:H	1.74	0.53
5:G:336:GLU:O	6:H:489:ARG:NH2	2.42	0.53
6:H:21:SER:HB3	6:H:100:PRO:HB2	1.90	0.53
4:A:59:PHE:HE2	4:A:66:LEU:HD11	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1782:PHE:CE2	4:A:1823:SER:HA	2.44	0.53
4:A:2506:LEU:HB2	4:A:2525:TRP:HZ2	1.74	0.53
4:A:4039:TYR:HB3	4:A:4041:ARG:HD3	1.91	0.53
5:B:301:ARG:HG2	5:B:302:THR:H	1.74	0.53
5:B:334:THR:HG23	6:C:276:TRP:CD2	2.44	0.53
6:C:238:LYS:HD3	6:C:240:ILE:HG21	1.90	0.53
6:C:497:ARG:NE	6:C:504:PRO:HA	2.24	0.53
4:S:571:SER:O	4:S:575:ILE:HG12	2.09	0.53
4:S:970:LEU:HD11	4:S:1015:ASP:HB3	1.91	0.53
4:S:2476:ILE:HG22	4:S:2477:LEU:HD22	1.91	0.53
4:S:2813:PHE:O	4:S:2816:ILE:HG22	2.08	0.53
4:S:3507:ASP:HA	4:S:3551:ASN:HB3	1.90	0.53
6:U:86:PRO:HB3	6:U:90:LEU:HD12	1.91	0.53
6:U:363:LYS:HE3	6:U:365:PHE:HZ	1.73	0.53
1:L:7:ARG:HA	1:L:19:PHE:HA	1.91	0.52
4:F:61:ARG:HD3	4:F:62:ASP:N	2.24	0.52
4:F:789:TYR:HA	4:F:792:ILE:HD12	1.91	0.52
4:F:826:PHE:CD1	4:F:836:LYS:HE2	2.44	0.52
4:F:1442:GLN:HA	4:F:1445:ARG:HE	1.73	0.52
4:F:2140:LEU:O	4:F:2144:LEU:HG	2.09	0.52
4:F:2274:ILE:HD13	4:F:2319:ALA:HB2	1.89	0.52
4:F:2521:ILE:HG12	4:F:2525:TRP:HD1	1.73	0.52
4:F:3165:THR:OG1	4:F:3168:TYR:HA	2.09	0.52
4:F:3311:ASN:HB3	4:F:3315:TYR:CE1	2.45	0.52
5:G:33:SER:H	5:G:254:ARG:HE	1.57	0.52
6:H:131:HIS:HA	6:H:219:ASP:HB3	1.91	0.52
6:H:652:GLU:HB2	6:H:690:GLU:HG3	1.90	0.52
4:A:2928:LYS:HE3	4:A:2993:PHE:HB2	1.91	0.52
4:A:3268:THR:HB	4:A:3272:TRP:CZ3	2.44	0.52
4:A:3420:CYS:HB3	4:A:3446:VAL:HA	1.90	0.52
5:B:378:SER:O	5:B:382:PHE:HB2	2.09	0.52
9:D:29:DA:H5'	10:E:28:DA:H62	1.74	0.52
4:S:1801:VAL:O	4:S:1804:MET:HG3	2.09	0.52
4:S:2386:LEU:H	4:S:2418:LYS:HZ3	1.56	0.52
4:S:2509:GLY:C	4:S:2521:ILE:HD13	2.33	0.52
4:S:2776:ARG:NE	4:S:2782:ASP:OD2	2.42	0.52
4:S:2794:LEU:HA	4:S:2797:VAL:HG12	1.89	0.52
5:T:318:ARG:HE	6:U:278:VAL:HG13	1.72	0.52
5:T:322:TYR:HB3	6:U:494:LEU:HD11	1.89	0.52
6:U:251:LEU:HD22	6:U:261:ILE:H	1.74	0.52
3:R:13:TRP:HB2	3:R:215:GLN:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:27:VAL:HG11	3:R:79:LEU:HD23	1.91	0.52
3:R:104:LEU:HB3	3:R:123:CYS:HB2	1.89	0.52
4:F:1538:LEU:HB3	4:F:1553:PHE:H	1.74	0.52
4:F:1837:ARG:HD3	4:F:1884:LEU:HB2	1.91	0.52
4:F:2147:ALA:HB2	4:F:2171:LEU:HD21	1.91	0.52
4:F:2481:HIS:HA	4:F:2499:PHE:HE1	1.74	0.52
4:F:2548:PRO:HB2	4:F:2848:PHE:HE1	1.74	0.52
5:G:43:ASP:OD1	5:G:44:ALA:N	2.38	0.52
5:G:376:ILE:HG12	6:H:541:GLU:HB3	1.91	0.52
5:G:484:GLN:NE2	6:H:428:GLU:OE2	2.42	0.52
6:H:31:PHE:HZ	6:H:98:ILE:HG23	1.73	0.52
6:H:411:HIS:CD2	6:H:417:GLU:HA	2.44	0.52
4:A:1098:GLN:HB3	4:A:1152:ARG:HB2	1.90	0.52
4:A:1372:LEU:HG	4:A:1399:CYS:SG	2.49	0.52
4:A:1626:TRP:HA	4:A:1629:CYS:HB2	1.90	0.52
4:A:1696:LEU:O	4:A:1699:PHE:N	2.28	0.52
4:A:1852:LYS:HD2	4:A:1918:LEU:HD22	1.90	0.52
4:A:2104:MET:O	4:A:2108:LEU:N	2.40	0.52
4:A:2325:LEU:HD22	4:A:2328:ARG:HH22	1.73	0.52
4:A:3274:VAL:HG11	4:A:3322:ALA:HB1	1.90	0.52
4:A:3531:TYR:HB2	4:A:3532:PRO:HD3	1.90	0.52
4:A:3569:GLN:HA	4:A:3572:ILE:HD12	1.91	0.52
4:A:3778:ASP:HB2	4:A:3787:GLN:H	1.73	0.52
4:A:3950:THR:CB	4:A:4067:GLY:H	2.22	0.52
5:B:318:ARG:HA	6:C:278:VAL:HA	1.91	0.52
5:B:369:TYR:OH	6:C:436:SER:O	2.28	0.52
5:B:454:ALA:HB1	5:B:459:VAL:HG11	1.92	0.52
4:S:198:ARG:HD2	5:T:315:ASP:HB3	1.92	0.52
4:S:655:LEU:O	4:S:659:ARG:HG2	2.09	0.52
4:S:1080:LEU:HD12	4:S:1124:ILE:HG21	1.89	0.52
4:S:1327:GLY:HA2	4:S:1330:TYR:HB3	1.91	0.52
4:S:1594:SER:HB2	4:S:1648:LEU:HD11	1.90	0.52
4:S:2510:LEU:HD13	4:S:2525:TRP:HD1	1.73	0.52
4:S:2899:ARG:HE	4:S:2900:LEU:HG	1.74	0.52
4:S:3100:LYS:O	4:S:3103:ILE:HG22	2.10	0.52
4:S:4107:LEU:HA	4:S:4111:ALA:HB3	1.91	0.52
5:T:367:PHE:HD1	5:T:433:GLN:HE21	1.55	0.52
6:U:135:PHE:CD2	6:U:164:PHE:HB2	2.44	0.52
6:U:197:ILE:HG13	6:U:198:THR:H	1.74	0.52
6:U:343:LEU:N	6:U:392:ILE:O	2.30	0.52
6:U:663:GLN:HE22	6:U:706:ALA:HA	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:147:GLN:OE1	3:Y:213:ASN:HB2	2.09	0.52
1:L:141:ASN:O	1:L:145:GLN:CB	2.57	0.52
2:M:825:VAL:HG12	2:M:831:THR:HG22	1.92	0.52
3:Q:79:LEU:HA	3:Q:92:GLU:HB3	1.92	0.52
4:F:643:GLU:O	4:F:646:VAL:HG22	2.08	0.52
4:F:2528:GLU:HG2	4:F:2533:SER:HB3	1.91	0.52
5:G:383:SER:HA	6:H:438:LEU:HD21	1.91	0.52
5:G:485:GLN:NE2	6:H:333:TYR:H	2.07	0.52
6:H:249:CYS:O	6:H:261:ILE:N	2.32	0.52
6:H:280:ASP:HB2	6:H:289:ILE:HD11	1.91	0.52
6:H:667:GLU:O	6:H:670:GLN:NE2	2.42	0.52
4:A:58:VAL:HG11	4:A:3098:ARG:HH11	1.75	0.52
4:A:387:GLU:O	4:A:391:ARG:NH1	2.42	0.52
4:A:1226:GLY:H	4:A:1263:ALA:HB2	1.74	0.52
4:A:4056:PRO:CD	4:A:4098:LEU:HB2	2.40	0.52
5:B:416:GLN:HG2	5:B:428:THR:HB	1.92	0.52
5:B:490:LEU:HB3	6:C:316:TYR:CD1	2.44	0.52
6:C:280:ASP:HB3	6:C:282:LYS:HG2	1.91	0.52
4:S:108:LYS:O	4:S:112:THR:HG23	2.10	0.52
4:S:208:MET:SD	4:S:209:THR:HG23	2.49	0.52
4:S:1369:MET:HB3	4:S:1418:HIS:NE2	2.24	0.52
4:S:1597:LEU:HD23	4:S:1648:LEU:HD13	1.90	0.52
4:S:2161:ALA:O	4:S:2165:LEU:N	2.42	0.52
4:S:2563:LEU:HD21	4:S:2794:LEU:HB3	1.91	0.52
4:S:3416:LEU:O	4:S:3419:PHE:HB3	2.09	0.52
4:S:3890:MET:HG3	4:S:3931:ALA:HB3	1.92	0.52
6:U:165:LEU:HD12	6:U:166:PRO:HD2	1.92	0.52
7:V:42:DA:H2''	7:V:43:DT:C5	2.44	0.52
3:X:187:ASN:HA	3:X:190:LEU:HG	1.91	0.52
3:X:207:GLY:O	3:X:211:VAL:HG22	2.08	0.52
1:L:37:THR:HG23	1:L:39:GLY:H	1.74	0.52
2:P:675:LYS:O	2:P:679:GLU:HG3	2.08	0.52
3:R:79:LEU:HD13	3:R:85:LYS:HD2	1.91	0.52
4:F:250:ASN:O	4:F:253:LEU:N	2.43	0.52
4:F:2208:ASP:OD1	4:F:2209:GLU:N	2.43	0.52
4:F:2421:VAL:HG23	4:F:2457:PRO:HG3	1.91	0.52
4:F:2930:TYR:HA	4:F:2933:ILE:HG12	1.91	0.52
4:F:3008:TRP:CZ3	4:F:3009:LYS:HD3	2.44	0.52
4:F:3095:ASP:OD1	4:F:3096:VAL:N	2.41	0.52
4:F:3228:SER:HB2	4:F:3232:ARG:HH12	1.73	0.52
4:F:4114:PRO:HA	4:F:4117:LEU:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:461:LYS:NZ	5:G:525:PHE:HB3	2.24	0.52
6:H:12:LEU:N	6:H:55:ALA:O	2.38	0.52
6:H:510:GLN:NE2	6:H:514:ASN:HD22	2.07	0.52
4:A:741:ILE:HG21	4:A:776:TRP:CD2	2.44	0.52
4:A:754:MET:HA	4:A:757:LYS:HG2	1.91	0.52
4:A:912:PRO:O	4:A:916:GLU:HG2	2.08	0.52
4:A:1102:GLU:HA	4:A:1154:PRO:HB3	1.92	0.52
4:A:2995:GLU:OE1	4:A:3040:TYR:OH	2.23	0.52
4:S:86:LEU:HB2	4:S:129:ASP:HB3	1.91	0.52
4:S:746:ARG:HH21	4:S:749:VAL:HG11	1.74	0.52
4:S:1034:ARG:HB2	4:S:1088:GLU:HG2	1.90	0.52
4:S:1747:LEU:HD11	4:S:1778:PHE:HA	1.90	0.52
4:S:2833:THR:HG23	4:S:2868:LEU:HD22	1.92	0.52
4:S:3911:ILE:HG22	4:S:3915:HIS:CD2	2.44	0.52
8:W:20:DT:H2"	8:W:21:DA:N7	2.25	0.52
3:Y:209:PRO:HA	3:Y:212:MET:HE1	1.91	0.52
1:O:71:ARG:HD3	1:O:75:LEU:HD12	1.92	0.52
3:Q:23:LEU:HD22	3:Q:104:LEU:HD21	1.92	0.52
3:Q:39:SER:HB2	3:R:136:ILE:HD13	1.91	0.52
3:R:75:HIS:CE1	3:R:86:ASP:HA	2.44	0.52
4:F:410:MET:HB3	4:F:442:GLN:HE22	1.74	0.52
4:F:417:VAL:HA	4:F:420:VAL:HG12	1.91	0.52
4:F:667:TYR:HB2	4:F:732:PHE:CD1	2.45	0.52
4:F:1711:ARG:O	4:F:1714:LEU:HB2	2.09	0.52
4:F:1771:GLN:HE22	4:F:1774:MET:HA	1.74	0.52
4:F:1824:LEU:O	4:F:1828:LEU:HG	2.10	0.52
4:F:1843:ILE:HD11	4:F:1880:MET:HE1	1.91	0.52
4:F:2950:LYS:HE2	4:F:2986:PRO:HB3	1.92	0.52
4:F:3103:ILE:HD13	4:F:3138:ILE:HD11	1.91	0.52
4:F:3103:ILE:HD11	4:F:3135:LEU:HD22	1.92	0.52
4:F:4065:LEU:HB2	4:F:4078:VAL:HG11	1.91	0.52
4:A:229:SER:HA	4:A:278:HIS:HE1	1.74	0.52
4:A:291:VAL:O	4:A:294:PHE:N	2.42	0.52
4:A:369:PHE:HA	4:A:372:PRO:HD2	1.92	0.52
4:A:581:LEU:HD13	4:A:620:PHE:HD1	1.75	0.52
4:A:998:ASN:HA	4:A:1001:PHE:CD2	2.44	0.52
4:A:1337:VAL:O	4:A:1341:ILE:HG12	2.10	0.52
4:A:3589:SER:HB2	4:A:3667:LEU:HD11	1.92	0.52
6:C:431:ARG:HH11	6:C:433:TYR:HE1	1.58	0.52
4:S:427:VAL:HG11	4:S:471:LYS:HE3	1.90	0.52
4:S:471:LYS:HA	4:S:1551:ILE:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:528:VAL:HG12	4:S:633:ILE:HD11	1.92	0.52
4:S:1767:CYS:SG	4:S:1822:ARG:NH2	2.82	0.52
5:T:433:GLN:HE22	6:U:431:ARG:HD2	1.75	0.52
6:U:271:ARG:NH2	8:W:30:DT:H3	2.07	0.52
1:K:59:MET:HG3	1:K:106:PHE:HB2	1.90	0.52
1:K:181:ILE:HD12	2:M:774:LEU:HB2	1.92	0.52
2:P:845:LEU:HB3	2:P:850:ALA:HB3	1.92	0.52
4:F:30:ALA:O	4:F:34:LEU:HG	2.10	0.52
4:F:119:ARG:HA	4:F:123:CYS:HA	1.92	0.52
4:F:774:GLU:O	4:F:778:ILE:HG12	2.10	0.52
4:F:1414:ILE:HG22	4:F:1418:HIS:CE1	2.45	0.52
4:F:1948:ALA:HA	4:F:1951:VAL:HG22	1.92	0.52
4:F:2891:ARG:NH2	4:F:3898:LEU:HB2	2.19	0.52
4:F:3072:GLU:HA	4:F:3075:LYS:HE2	1.90	0.52
4:F:3311:ASN:HB3	4:F:3315:TYR:CZ	2.44	0.52
4:A:745:VAL:HB	4:A:788:TYR:HE2	1.75	0.52
4:A:998:ASN:OD1	4:A:999:LYS:N	2.42	0.52
4:A:2094:MET:HG3	4:A:2149:LEU:HD23	1.92	0.52
4:A:2157:PHE:O	4:A:2161:ALA:N	2.42	0.52
4:A:2196:TRP:HB3	4:A:2199:LEU:HB2	1.92	0.52
4:A:2866:ALA:HA	4:A:2869:LEU:HD12	1.92	0.52
4:A:2945:SER:OG	4:A:2946:GLU:OE2	2.24	0.52
6:C:251:LEU:HA	6:C:340:PHE:C	2.34	0.52
6:C:395:TYR:O	6:C:404:GLN:N	2.37	0.52
4:S:392:CYS:HA	4:S:395:MET:HB3	1.91	0.52
4:S:461:ILE:HA	4:S:464:VAL:HG22	1.92	0.52
4:S:653:LEU:HB3	4:S:670:LEU:HD21	1.91	0.52
4:S:1273:GLU:HB3	4:S:1275:THR:HG22	1.91	0.52
4:S:1287:GLN:HB3	4:S:1290:LEU:H	1.75	0.52
4:S:1711:ARG:HH11	4:S:1757:MET:HG2	1.75	0.52
4:S:2920:VAL:HA	4:S:2923:TRP:HB2	1.90	0.52
4:S:2999:LEU:HB3	4:S:3043:TYR:CG	2.44	0.52
5:T:260:LYS:HG2	5:T:374:LEU:CD2	2.39	0.52
3:X:18:LEU:HA	3:X:95:PHE:H	1.75	0.52
3:Q:24:LEU:HD22	3:R:140:MET:HE1	1.90	0.52
4:F:569:VAL:HG13	4:F:649:PHE:HZ	1.74	0.52
4:F:663:ILE:HB	4:F:666:PHE:CE2	2.45	0.52
4:F:1095:LEU:O	4:F:1099:PHE:N	2.43	0.52
4:F:1190:LEU:HA	4:F:1193:LYS:HD3	1.92	0.52
4:F:1769:GLU:O	4:F:1772:HIS:ND1	2.42	0.52
4:F:2214:ARG:HH11	4:F:2218:PHE:HE2	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2254:ARG:CZ	4:F:2294:ILE:HG12	2.40	0.52
4:F:3089:LEU:O	4:F:3093:GLN:NE2	2.41	0.52
4:F:3234:CYS:O	4:F:3238:MET:HG2	2.10	0.52
4:F:3996:GLY:C	4:F:4000:ASN:HD22	2.15	0.52
5:G:383:SER:HB2	6:H:439:LYS:HE3	1.91	0.52
6:H:267:ILE:HG12	6:H:361:VAL:HB	1.92	0.52
6:H:335:SER:HB3	6:H:396:ALA:HB2	1.92	0.52
6:H:454:VAL:HA	6:H:457:LEU:HB3	1.90	0.52
4:A:99:LYS:HG3	4:A:102:PRO:HD3	1.91	0.52
4:A:200:PHE:CD1	4:A:224:LEU:HD22	2.44	0.52
4:A:387:GLU:O	4:A:391:ARG:HG2	2.09	0.52
4:A:938:VAL:HA	4:A:941:MET:HG3	1.90	0.52
4:A:1069:HIS:HE1	4:A:3745:GLU:C	2.16	0.52
4:A:1145:LEU:HD23	4:A:1151:ARG:HH12	1.75	0.52
4:A:3154:GLN:HB3	4:A:3158:LYS:HZ3	1.75	0.52
4:A:3382:PHE:CD1	4:A:3445:LEU:HD21	2.45	0.52
4:A:3454:LEU:HG	4:A:3461:ALA:HB3	1.91	0.52
4:A:3529:ILE:CB	4:A:3705:TYR:HB2	2.40	0.52
5:B:352:PRO:HD2	6:C:464:ALA:HB3	1.92	0.52
9:D:29:DA:OP1	10:E:28:DA:N6	2.42	0.52
4:S:332:GLU:O	4:S:336:ASN:N	2.23	0.52
4:S:1260:LEU:HD21	4:S:1297:PHE:HZ	1.75	0.52
1:N:169:LYS:HB2	1:O:169:LYS:HD3	1.92	0.52
4:F:282:PHE:O	4:F:286:LEU:HD13	2.10	0.52
4:F:1771:GLN:NE2	4:F:1774:MET:HA	2.25	0.52
4:F:2188:GLU:HA	4:F:2728:LEU:HD22	1.92	0.52
4:F:2287:PRO:HG3	4:F:2326:ILE:HG23	1.91	0.52
4:F:2410:GLU:HG3	4:F:2414:GLN:HE22	1.75	0.52
4:F:2965:TYR:HB3	4:F:3001:CYS:HB2	1.92	0.52
4:F:3521:ILE:O	4:F:3525:TYR:N	2.42	0.52
4:F:3868:VAL:HG22	4:F:4117:LEU:HD22	1.92	0.52
5:G:50:GLU:O	5:G:171:ASN:ND2	2.42	0.52
6:H:11:VAL:HG22	6:H:55:ALA:HB3	1.91	0.52
6:H:651:GLU:HB2	6:H:655:PHE:HB2	1.92	0.52
4:A:323:VAL:O	4:A:327:VAL:CB	2.58	0.52
4:A:3860:LYS:HE2	4:A:4073:ALA:HB2	1.92	0.52
4:A:3988:LEU:HD23	4:A:4100:GLU:HB2	1.92	0.52
6:C:295:TYR:HB2	6:C:305:VAL:O	2.10	0.52
4:S:74:ASN:ND2	4:S:122:LYS:HB2	2.25	0.52
4:S:229:SER:HA	4:S:278:HIS:CE1	2.37	0.52
4:S:2150:VAL:HA	4:S:2153:THR:OG1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2421:VAL:HG12	4:S:2454:LEU:HD13	1.91	0.52
4:S:2443:MET:HE3	4:S:2479:TRP:CE3	2.45	0.52
6:U:184:ARG:HH21	6:U:515:MET:HB2	1.74	0.52
1:L:169:LYS:HZ2	2:M:814:ARG:NH2	2.08	0.52
2:M:802:ARG:NH2	2:M:803:TYR:OH	2.42	0.52
1:N:161:ARG:HE	2:P:899:ASP:CG	2.18	0.52
3:R:209:PRO:HA	3:R:212:MET:HG2	1.92	0.52
4:F:737:PRO:O	4:F:741:ILE:HG12	2.10	0.52
4:F:2587:GLN:HE21	4:F:2777:HIS:HD2	1.57	0.52
4:F:2821:ASP:HA	4:F:2829:LYS:HE3	1.92	0.52
4:F:3098:ARG:HG2	4:F:3102:TYR:CZ	2.45	0.52
4:F:3254:LEU:HD21	4:F:3289:ARG:HH22	1.75	0.52
5:G:68:GLN:HB2	5:G:119:LEU:HD23	1.92	0.52
5:G:289:TYR:O	5:G:293:ASN:N	2.37	0.52
4:A:146:GLU:HG3	4:A:184:VAL:HB	1.91	0.52
4:A:286:LEU:HB2	4:A:319:PHE:HE1	1.74	0.52
4:A:913:ARG:NH1	4:A:916:GLU:HB2	2.25	0.52
4:A:924:ARG:HH21	4:A:2769:VAL:HG12	1.74	0.52
4:A:1227:GLY:HA2	4:A:1232:PRO:HG2	1.90	0.52
4:A:1242:LEU:HA	4:A:1310:GLU:HA	1.91	0.52
4:A:3468:LEU:HG	4:A:3483:MET:HE1	1.91	0.52
6:C:10:VAL:O	6:C:54:ILE:HA	2.09	0.52
6:C:12:LEU:HB3	6:C:56:LEU:HD13	1.92	0.52
4:S:569:VAL:HA	4:S:572:VAL:HG12	1.92	0.52
4:S:739:ASN:ND2	4:S:742:GLU:OE2	2.43	0.52
4:S:2138:VAL:O	4:S:2143:ARG:NH2	2.43	0.52
4:S:2211:LEU:HB3	4:S:2214:ARG:HH21	1.74	0.52
4:S:2559:THR:HB	4:S:2798:ALA:HB1	1.91	0.52
4:S:3475:TYR:HB3	4:S:3477:GLU:HG2	1.91	0.52
6:U:194:LEU:HD23	6:U:194:LEU:H	1.73	0.52
8:W:28:DA:H1'	8:W:29:DG:C8	2.45	0.52
1:K:181:ILE:HD12	2:M:774:LEU:H	1.75	0.52
2:P:792:MET:O	2:P:796:ILE:HG13	2.09	0.52
3:Q:41:LEU:HD11	3:Q:204:ILE:HB	1.92	0.52
3:R:108:VAL:HB	3:R:119:TRP:CD1	2.45	0.52
4:F:114:VAL:HG13	4:F:119:ARG:HE	1.75	0.52
4:F:175:TYR:HE2	4:F:203:GLU:HG3	1.74	0.52
4:F:718:MET:HB2	4:F:726:LEU:HD11	1.91	0.52
4:F:988:VAL:HA	4:F:991:LEU:HD12	1.92	0.52
4:F:1627:LYS:HG2	4:F:1670:GLU:CD	2.35	0.52
4:F:1708:GLU:O	4:F:1711:ARG:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1710:LEU:O	4:F:1714:LEU:HG	2.10	0.52
4:F:2162:LYS:HG3	4:F:2163:HIS:ND1	2.24	0.52
4:F:2231:PHE:HA	4:F:2234:ASN:OD1	2.09	0.52
4:F:2349:LEU:HB3	4:F:2360:PHE:HE1	1.73	0.52
4:F:3879:PRO:O	4:F:3965:ARG:NH1	2.43	0.52
5:G:484:GLN:HA	5:G:487:PHE:CD2	2.45	0.52
4:A:798:GLY:O	4:A:802:THR:OG1	2.28	0.52
4:A:1100:VAL:HG11	4:A:1145:LEU:HD13	1.92	0.52
4:A:1565:GLU:HG2	4:A:1566:THR:HG23	1.92	0.52
4:A:1805:PHE:CE1	4:A:1817:GLN:HA	2.45	0.52
4:A:2225:HIS:ND1	4:A:2226:PRO:O	2.37	0.52
4:A:3756:GLU:HA	4:A:4022:LYS:HB3	1.91	0.52
4:A:3774:ILE:HA	4:A:3786:LEU:O	2.10	0.52
5:B:74:LYS:HG2	5:B:83:LEU:HD21	1.91	0.52
5:B:305:THR:HG23	6:C:290:GLN:HE21	1.75	0.52
4:S:195:ASN:OD1	4:S:198:ARG:NH2	2.39	0.52
4:S:1200:GLY:H	4:S:1202:ARG:HH21	1.57	0.52
4:S:1582:LEU:O	4:S:1586:SER:N	2.42	0.52
4:S:2722:ARG:H	4:S:2722:ARG:HD2	1.74	0.52
4:S:3046:ARG:HA	4:S:3049:LEU:HB3	1.92	0.52
4:S:3100:LYS:HE2	4:S:3142:ILE:HG23	1.91	0.52
4:S:3472:ILE:HG12	4:S:3478:GLU:HG2	1.91	0.52
4:S:3704:GLN:HB3	4:S:3750:PHE:CE2	2.45	0.52
5:T:269:ILE:HG12	5:T:381:LEU:HD22	1.92	0.52
5:T:289:TYR:HD1	5:T:291:GLU:H	1.56	0.52
6:U:49:GLU:HA	6:U:236:VAL:C	2.35	0.52
1:L:88:PHE:HD1	1:L:95:PHE:HB2	1.74	0.51
2:P:796:ILE:HD12	2:P:814:ARG:CZ	2.40	0.51
3:Q:193:PHE:CZ	3:R:148:CYS:HB2	2.45	0.51
3:R:168:GLN:O	3:R:173:THR:OG1	2.28	0.51
4:F:994:TRP:HB2	4:F:2780:LEU:HD22	1.92	0.51
4:F:2586:PHE:HB3	4:F:2776:ARG:HB3	1.91	0.51
4:F:3029:LYS:NZ	4:F:3074:GLN:OE1	2.30	0.51
4:F:3265:GLU:HB2	4:F:3272:TRP:CD1	2.45	0.51
5:G:81:ASP:OD1	5:G:81:ASP:N	2.43	0.51
4:A:432:THR:N	4:A:433:PRO:HD2	2.17	0.51
4:A:734:LEU:HD22	4:A:769:GLY:HA2	1.91	0.51
4:A:982:GLN:HG2	4:A:2591:ILE:HG13	1.92	0.51
4:A:1072:ALA:HA	4:A:1123:THR:HG21	1.92	0.51
4:A:1101:PHE:CE1	4:A:1168:LEU:HB2	2.45	0.51
4:A:1133:HIS:O	4:A:1137:ILE:HG12	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2244:CYS:SG	4:A:2245:TRP:N	2.83	0.51
4:A:2451:LEU:HD22	4:A:2498:ILE:HD13	1.92	0.51
4:A:3153:SER:O	4:A:3156:PRO:HD2	2.09	0.51
4:A:3490:VAL:HG11	4:A:3493:TRP:CE3	2.45	0.51
4:A:3741:ARG:HA	4:A:3747:GLU:HA	1.92	0.51
4:A:3788:LEU:O	4:A:3789:ARG:NH1	2.43	0.51
5:B:143:LEU:HB2	5:B:186:ALA:HB2	1.90	0.51
4:S:287:LEU:H	4:S:326:MET:HE1	1.75	0.51
4:S:462:VAL:HG12	4:S:534:LEU:HD23	1.92	0.51
4:S:464:VAL:O	4:S:468:LEU:HG	2.10	0.51
4:S:1154:PRO:HB2	4:S:1157:PHE:HB3	1.93	0.51
4:S:1265:GLU:HG3	4:S:1340:ARG:HH11	1.75	0.51
4:S:1431:LEU:HB3	4:S:1448:LEU:HB2	1.91	0.51
4:S:2474:TYR:O	4:S:2478:MET:HG2	2.10	0.51
4:S:2755:LYS:HA	4:S:2758:LYS:HE2	1.90	0.51
4:S:2973:ASP:HB2	4:S:3002:TYR:OH	2.10	0.51
4:S:3002:TYR:HD1	4:S:3010:SER:HB2	1.73	0.51
4:S:3242:MET:SD	4:S:3255:ALA:HB2	2.50	0.51
4:S:3927:ASN:HB2	4:S:3962:ARG:CZ	2.40	0.51
5:T:60:PHE:CZ	5:T:135:MET:HE2	2.45	0.51
5:T:357:LYS:HD3	5:T:359:HIS:CE1	2.44	0.51
6:U:652:GLU:O	6:U:656:ASN:ND2	2.43	0.51
3:Y:47:GLU:HG3	3:Y:57:ARG:HH12	1.75	0.51
1:N:154:ASP:HB3	1:O:155:TRP:CD1	2.46	0.51
4:F:88:PHE:HA	4:F:91:ILE:HG12	1.91	0.51
4:F:177:LEU:H	4:F:223:CYS:CA	2.18	0.51
4:F:392:CYS:HB2	4:F:438:LEU:HD13	1.90	0.51
4:F:1516:GLU:HA	4:F:1519:PHE:CD2	2.45	0.51
4:F:1630:ASP:HB3	4:F:1633:TRP:CZ2	2.45	0.51
4:F:1686:LEU:HG	4:F:1742:CYS:SG	2.50	0.51
4:F:1958:GLU:HG2	4:F:1959:LEU:H	1.76	0.51
4:F:3139:GLN:HA	4:F:3142:ILE:HG22	1.93	0.51
4:F:3240:MET:HE3	4:F:3272:TRP:CZ3	2.45	0.51
4:F:3410:ILE:HD11	4:F:3456:LEU:HD13	1.92	0.51
4:F:3729:MET:N	4:F:3735:PRO:O	2.37	0.51
6:H:295:TYR:C	6:H:304:GLU:HG2	2.35	0.51
6:H:364:VAL:HB	6:H:419:LEU:HB2	1.92	0.51
4:A:749:VAL:HG22	4:A:792:ILE:HD11	1.93	0.51
4:A:1257:LEU:HD12	4:A:1333:SER:HB2	1.92	0.51
4:A:2256:ILE:HB	4:A:2277:LEU:HD21	1.91	0.51
4:A:2522:ARG:HG2	4:A:2561:PHE:CZ	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2888:VAL:HG22	4:A:3895:GLU:HG2	1.92	0.51
4:A:3160:LEU:HG	4:A:3190:LEU:HD22	1.91	0.51
4:A:3596:LEU:HB3	4:A:3606:ILE:HD13	1.92	0.51
5:B:166:ILE:N	5:B:199:PHE:O	2.43	0.51
5:B:321:ILE:HG22	6:C:277:THR:HG21	1.92	0.51
9:D:32:DA:H2"	9:D:33:DA:C5	2.45	0.51
4:S:1264:LEU:HG	4:S:1267:TYR:HD2	1.75	0.51
4:S:2817:LEU:HA	4:S:2820:MET:HG2	1.92	0.51
4:S:2866:ALA:HA	4:S:2869:LEU:HD12	1.91	0.51
4:S:3161:LEU:HB3	4:S:3186:ARG:CZ	2.39	0.51
4:S:3261:GLU:O	4:S:3272:TRP:NE1	2.38	0.51
4:S:3639:GLU:HG3	4:S:3666:LEU:HD11	1.92	0.51
5:T:452:ILE:O	6:U:378:SER:OG	2.22	0.51
6:U:457:LEU:HD13	6:U:533:ILE:HG21	1.92	0.51
2:M:865:ILE:HG13	2:M:875:PHE:CE2	2.43	0.51
2:P:889:LEU:HD22	2:P:893:TRP:CD1	2.46	0.51
4:F:1102:GLU:HA	4:F:1154:PRO:HB3	1.91	0.51
4:F:1115:HIS:HA	4:F:1119:LYS:HD2	1.92	0.51
4:F:1164:CYS:N	4:F:1167:ASP:OD2	2.43	0.51
4:F:2271:SER:HA	4:F:2274:ILE:HD12	1.92	0.51
4:F:3239:LYS:HB2	4:F:3272:TRP:HH2	1.75	0.51
5:G:32:TYR:OH	5:G:161:MET:O	2.24	0.51
6:H:131:HIS:CE1	6:H:219:ASP:HA	2.45	0.51
4:A:61:ARG:HH12	4:A:106:GLU:CD	2.18	0.51
4:A:411:PRO:HG2	4:A:456:VAL:HG23	1.93	0.51
4:A:3465:PHE:CD1	4:A:3468:LEU:HD23	2.45	0.51
4:A:3666:LEU:O	4:A:3670:MET:HG2	2.10	0.51
4:A:3891:SER:HB3	4:A:3900:LEU:HD12	1.93	0.51
5:B:353:LEU:HD21	5:B:395:ALA:HB2	1.93	0.51
4:S:115:TYR:HA	4:S:130:LEU:HD11	1.92	0.51
4:S:123:CYS:HB2	4:S:170:VAL:HG23	1.93	0.51
4:S:538:ASP:N	4:S:538:ASP:OD1	2.43	0.51
4:S:1723:PRO:HG3	6:U:594:PRO:HA	1.91	0.51
4:S:1961:PHE:HD2	4:S:2125:TRP:HZ3	1.58	0.51
4:S:2813:PHE:HA	4:S:2816:ILE:HG22	1.91	0.51
4:S:2960:GLU:HB2	4:S:2972:TYR:HE2	1.74	0.51
4:S:3133:GLN:O	4:S:3136:THR:HG22	2.09	0.51
5:T:112:GLY:O	5:T:116:ILE:HG12	2.09	0.51
5:T:410:PHE:CE2	6:U:485:PRO:HD3	2.46	0.51
6:U:162:GLN:NE2	6:U:163:PHE:O	2.38	0.51
6:U:489:ARG:HB2	6:U:508:ILE:HD12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:690:VAL:HG21	5:G:290:ARG:HH21	1.74	0.51
4:F:330:ASN:HB2	4:F:333:MET:HB3	1.91	0.51
4:F:890:LYS:HE2	4:F:909:VAL:N	2.26	0.51
4:F:1065:SER:HB2	4:F:1069:HIS:CE1	2.45	0.51
4:F:2317:ALA:C	4:F:2366:LYS:HZ3	2.19	0.51
4:F:3324:ARG:NH1	4:F:3392:ALA:O	2.43	0.51
4:F:3410:ILE:HG12	4:F:3453:ALA:HA	1.91	0.51
4:F:3774:ILE:HA	4:F:3786:LEU:HA	1.91	0.51
5:G:258:ARG:NH2	5:G:270:SER:HB3	2.26	0.51
5:G:403:ARG:HD3	7:I:32:DA:H5'	1.92	0.51
6:H:413:LYS:H	6:H:417:GLU:HG3	1.75	0.51
6:H:522:VAL:HA	6:H:525:LYS:HG2	1.93	0.51
7:I:27:DC:H3'	7:I:28:DT:O4'	2.11	0.51
4:A:387:GLU:HG2	4:A:1734:PRO:HG3	1.93	0.51
4:A:466:LEU:HD23	4:A:544:ILE:HB	1.92	0.51
4:A:1302:ALA:HA	4:A:1371:VAL:HG22	1.92	0.51
4:A:1949:ILE:HG23	4:A:2100:LEU:HD13	1.90	0.51
4:A:2536:LEU:O	4:A:2540:LEU:HG	2.11	0.51
6:C:44:ARG:HD2	6:C:238:LYS:HB3	1.92	0.51
4:S:73:LEU:O	4:S:82:ARG:NH1	2.43	0.51
4:S:1279:LEU:N	4:S:1356:TRP:HE1	2.08	0.51
4:S:1824:LEU:O	4:S:1828:LEU:HG	2.11	0.51
4:S:2154:GLU:HA	4:S:2157:PHE:CE1	2.46	0.51
4:S:3090:TYR:O	4:S:3095:ASP:N	2.36	0.51
4:S:3132:VAL:HA	4:S:3135:LEU:HD12	1.91	0.51
4:S:3760:GLN:O	4:S:3764:VAL:HG23	2.10	0.51
4:S:4038:TRP:HB2	4:S:4066:LEU:HD21	1.92	0.51
5:T:63:SER:O	5:T:67:ILE:HG12	2.10	0.51
5:T:317:LYS:HZ2	5:T:330:GLU:HB2	1.74	0.51
5:T:338:LYS:HD3	6:U:486:ARG:HG3	1.92	0.51
6:U:212:MET:HA	6:U:216:GLU:HB3	1.92	0.51
6:U:342:VAL:HG22	6:U:393:VAL:HB	1.91	0.51
1:K:59:MET:HA	1:K:106:PHE:CD2	2.45	0.51
1:K:141:ASN:O	1:K:145:GLN:N	2.43	0.51
1:L:97:PHE:HE2	1:L:108:LEU:HD23	1.75	0.51
2:P:693:PRO:HB2	2:P:718:HIS:ND1	2.26	0.51
4:F:718:MET:HA	4:F:721:TYR:CD2	2.45	0.51
4:F:893:SER:OG	4:F:894:PHE:N	2.42	0.51
4:F:996:THR:HG21	4:F:1039:TRP:HB3	1.92	0.51
4:F:1047:GLN:HB3	4:F:1051:LYS:HZ1	1.76	0.51
4:F:1184:ARG:NH2	4:F:1262:ALA:HA	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2091:HIS:H	4:F:2094:MET:HE2	1.76	0.51
4:F:2844:LEU:HB3	4:F:2875:ALA:HB1	1.91	0.51
4:F:3035:PHE:HA	4:F:3038:GLU:HB2	1.92	0.51
4:F:3171:ALA:HA	4:F:3179:TRP:HE1	1.75	0.51
5:G:348:MET:N	5:G:397:LEU:O	2.34	0.51
6:H:241:GLU:HG2	6:H:242:ARG:H	1.76	0.51
6:H:658:PHE:O	6:H:662:LEU:HG	2.11	0.51
4:A:1876:ILE:HA	4:A:1879:VAL:HG22	1.92	0.51
4:A:2271:SER:HA	4:A:2315:VAL:HG12	1.91	0.51
4:A:2980:ASP:N	4:A:2980:ASP:OD1	2.42	0.51
4:A:4094:PRO:O	4:A:4098:LEU:HD11	2.11	0.51
5:B:439:PHE:O	6:C:268:LEU:N	2.42	0.51
4:S:75:SER:O	4:S:79:ARG:N	2.43	0.51
4:S:835:LYS:HD3	4:S:838:LYS:HD3	1.91	0.51
4:S:2260:PHE:HD1	4:S:2303:LEU:HD21	1.74	0.51
4:S:2981:TRP:CZ2	4:S:2991:LYS:HG2	2.45	0.51
4:S:3266:SER:HA	4:S:3272:TRP:HB3	1.91	0.51
4:S:3796:MET:HE2	4:S:3800:LEU:HG	1.92	0.51
4:S:3912:CYS:HA	4:S:3915:HIS:CD2	2.46	0.51
5:T:318:ARG:O	5:T:329:LEU:N	2.37	0.51
6:U:16:VAL:O	6:U:16:VAL:HG12	2.10	0.51
7:V:41:DT:H1'	7:V:42:DA:C8	2.45	0.51
1:L:65:LYS:H	3:Y:114:GLY:HA3	1.75	0.51
2:M:707:ILE:HG12	5:B:493:LEU:HD23	1.92	0.51
1:N:147:GLU:OE1	1:N:150:ARG:NH2	2.40	0.51
1:N:157:ASP:HB3	2:P:837:ARG:HD3	1.92	0.51
2:P:879:ARG:NE	2:P:886:PHE:O	2.31	0.51
2:P:889:LEU:HD13	2:P:893:TRP:CE3	2.46	0.51
3:R:146:LEU:HG	3:R:217:LEU:HD23	1.92	0.51
4:F:168:ASP:OD1	8:J:22:DG:H5'	2.10	0.51
4:F:2155:GLU:H	4:F:2155:GLU:CD	2.19	0.51
4:F:2219:LEU:O	4:F:2223:VAL:N	2.44	0.51
4:F:2353:GLN:O	4:F:2357:GLU:N	2.41	0.51
4:F:3262:LEU:HA	4:F:3272:TRP:NE1	2.26	0.51
4:F:3665:MET:O	4:F:3669:LYS:NZ	2.39	0.51
6:H:489:ARG:NH1	6:H:508:ILE:HB	2.26	0.51
4:A:718:MET:HA	4:A:721:TYR:CD2	2.45	0.51
4:A:852:ARG:NH2	4:A:3111:MET:O	2.44	0.51
4:A:1072:ALA:O	4:A:1076:LEU:CB	2.59	0.51
4:A:1144:SER:HA	4:A:1149:LYS:HZ3	1.75	0.51
4:A:1867:ILE:HD13	4:A:1870:LYS:HE2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3385:LEU:HB2	4:A:3416:LEU:HD13	1.93	0.51
5:B:365:SER:N	6:C:356:PHE:O	2.38	0.51
6:C:209:LYS:HA	6:C:212:MET:HG2	1.93	0.51
4:S:631:ARG:HG3	4:S:672:ILE:HB	1.93	0.51
4:S:667:TYR:O	4:S:732:PHE:HB2	2.11	0.51
4:S:788:TYR:O	4:S:792:ILE:HG13	2.11	0.51
4:S:924:ARG:NH1	4:S:2594:ASP:O	2.43	0.51
4:S:2216:LEU:O	4:S:2219:LEU:HG	2.10	0.51
4:S:2225:HIS:HD1	4:S:2234:ASN:CG	2.17	0.51
4:S:2999:LEU:HD13	4:S:3043:TYR:HB2	1.93	0.51
4:S:3413:TYR:CD1	4:S:3416:LEU:HD22	2.45	0.51
4:S:3505:LEU:HA	4:S:3508:LYS:HB2	1.92	0.51
4:S:3569:GLN:NE2	4:S:3573:ASN:OD1	2.40	0.51
4:S:3788:LEU:HD12	4:S:3789:ARG:H	1.76	0.51
5:T:66:CYS:SG	5:T:242:LEU:HB2	2.51	0.51
5:T:357:LYS:H	5:T:438:PRO:CG	2.23	0.51
6:U:346:CYS:SG	6:U:347:LYS:N	2.81	0.51
8:W:31:DT:H1'	8:W:32:DT:H3	1.76	0.51
1:N:17:THR:HG22	1:O:124:ARG:NE	2.25	0.51
2:P:821:ASP:HB2	2:P:875:PHE:HZ	1.73	0.51
4:F:697:ASP:OD2	4:F:700:LYS:NZ	2.37	0.51
4:F:1666:GLY:O	4:F:1669:PRO:HD2	2.11	0.51
4:F:2257:PHE:HA	4:F:2260:PHE:CE2	2.46	0.51
4:F:2880:CYS:O	4:F:2885:GLN:N	2.44	0.51
4:F:3293:CYS:O	4:F:3297:VAL:HG23	2.11	0.51
5:G:123:LYS:O	5:G:126:GLN:NE2	2.43	0.51
4:A:1069:HIS:CG	4:A:1074:LYS:HD2	2.46	0.51
4:A:1217:VAL:HG23	4:A:1284:THR:N	2.25	0.51
4:A:1475:LEU:HD22	4:A:1527:ARG:HE	1.76	0.51
4:A:1629:CYS:O	4:A:1633:TRP:NE1	2.44	0.51
4:A:3786:LEU:O	4:A:3787:GLN:NE2	2.43	0.51
5:B:507:THR:OG1	6:C:403:PRO:HB2	2.10	0.51
6:C:315:ARG:NE	6:C:317:GLY:O	2.44	0.51
4:S:181:LEU:HB2	4:S:230:LEU:HD11	1.92	0.51
4:S:883:TYR:CE2	4:S:3900:LEU:HD22	2.45	0.51
4:S:1078:ALA:HB1	4:S:1128:CYS:HB2	1.93	0.51
4:S:1107:TYR:CE1	4:S:1128:CYS:HB3	2.46	0.51
4:S:3037:GLN:HG3	4:S:3044:MET:HG3	1.93	0.51
4:S:3466:PRO:HA	4:S:3469:LEU:HG	1.91	0.51
4:S:3775:LEU:O	4:S:3781:CYS:HB3	2.11	0.51
6:U:43:GLN:HB2	6:U:88:PHE:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:184:ARG:HH12	6:U:188:HIS:CD2	2.27	0.51
6:U:328:GLU:O	6:U:332:LYS:HG3	2.09	0.51
6:U:460:SER:O	6:U:526:SER:OG	2.24	0.51
6:U:484:ASN:ND2	6:U:486:ARG:HB3	2.26	0.51
3:Y:33:GLY:HA3	3:Y:50:ASP:HA	1.92	0.51
1:N:35:THR:HG21	1:N:122:VAL:HG21	1.93	0.51
1:O:58:ASP:N	1:O:58:ASP:OD1	2.43	0.51
4:F:645:TRP:HB3	4:F:649:PHE:CE1	2.46	0.51
4:F:1096:VAL:O	4:F:1100:VAL:HG13	2.11	0.51
4:F:1444:ASP:OD1	4:F:1445:ARG:N	2.43	0.51
4:F:1690:GLY:HA3	4:F:1745:LYS:HD3	1.92	0.51
4:F:2938:VAL:HA	4:F:3978:GLY:HA3	1.92	0.51
4:F:3067:LYS:HA	4:F:3070:HIS:ND1	2.25	0.51
4:F:3320:ILE:HD11	4:F:3394:GLU:HB2	1.93	0.51
5:G:381:LEU:O	5:G:385:LEU:HG	2.10	0.51
5:G:386:LEU:HD13	5:G:417:GLU:HA	1.93	0.51
5:G:423:GLN:HG2	5:G:425:ILE:HG12	1.92	0.51
6:H:197:ILE:HG23	6:H:201:GLN:HB3	1.91	0.51
7:I:25:DA:N6	8:J:33:DA:H1'	2.25	0.51
4:A:1086:TYR:CE1	4:A:1133:HIS:HB3	2.46	0.51
4:A:1754:GLN:HB3	4:A:1793:THR:HG21	1.92	0.51
4:A:3635:THR:HG21	4:A:3675:LYS:HD3	1.93	0.51
5:B:452:ILE:O	5:B:453:MET:HE2	2.09	0.51
4:S:286:LEU:H	4:S:326:MET:HE3	1.76	0.51
4:S:446:PHE:HA	4:S:449:TYR:CD2	2.46	0.51
4:S:945:ALA:HB2	4:S:961:LEU:HD12	1.92	0.51
4:S:1039:TRP:NE1	4:S:1043:GLN:OE1	2.44	0.51
4:S:1307:ILE:HG23	4:S:1309:ALA:H	1.76	0.51
4:S:1491:ILE:HD12	4:S:1538:LEU:HD12	1.93	0.51
4:S:2202:PRO:HB2	4:S:2248:CYS:HB3	1.92	0.51
4:S:2549:LYS:HG2	4:S:2848:PHE:CZ	2.46	0.51
4:S:3771:MET:HA	4:S:3774:ILE:HD12	1.92	0.51
4:S:3961:PHE:CE1	4:S:4107:LEU:HG	2.46	0.51
6:U:594:PRO:HG2	6:U:634:LYS:HD3	1.92	0.51
6:U:606:LYS:HG3	6:U:649:PHE:HD2	1.74	0.51
3:X:178:ARG:CZ	3:X:179:LEU:HD23	2.41	0.51
1:K:127:ILE:HD12	1:L:7:ARG:HE	1.76	0.51
1:N:172:LEU:HD13	2:P:810:LEU:HB2	1.92	0.51
4:F:83:GLU:CG	4:F:126:PRO:HD3	2.39	0.51
4:F:124:LYS:HB3	4:F:126:PRO:HD2	1.92	0.51
4:F:984:TYR:HA	4:F:987:LEU:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1148:ALA:HA	4:F:1164:CYS:HB2	1.91	0.51
4:F:2366:LYS:HD2	4:F:2369:LYS:NZ	2.23	0.51
4:F:3924:HIS:CD2	4:F:3926:ASN:HB2	2.46	0.51
7:I:29:DA:H8	7:I:30:DA:C2	2.29	0.51
4:A:124:LYS:HA	4:A:171:LEU:HD21	1.93	0.51
4:A:667:TYR:CD1	4:A:728:SER:HB3	2.45	0.51
4:A:1027:ASP:HB3	4:A:1031:ARG:HH12	1.76	0.51
4:A:1601:LEU:HD11	4:A:1648:LEU:HG	1.92	0.51
4:A:1713:VAL:HA	4:A:1716:GLN:HG2	1.93	0.51
4:A:2452:ARG:HB3	4:A:2498:ILE:HD11	1.93	0.51
4:A:2959:ALA:HB2	4:A:2967:GLU:OE2	2.11	0.51
4:A:3775:LEU:HD23	4:A:3987:ALA:HB1	1.92	0.51
5:B:418:GLU:OE1	6:C:437:SER:OG	2.24	0.51
4:S:106:GLU:O	4:S:110:THR:HG23	2.11	0.51
4:S:993:HIS:HA	4:S:1039:TRP:NE1	2.26	0.51
4:S:1454:ALA:O	4:S:1458:LEU:HG	2.10	0.51
4:S:1836:LEU:HD23	4:S:1883:ARG:HD2	1.92	0.51
4:S:2094:MET:HE2	4:S:2149:LEU:HD23	1.93	0.51
4:S:2420:PHE:O	4:S:2424:MET:HG3	2.11	0.51
4:S:2508:GLN:CD	4:S:2549:LYS:HE2	2.36	0.51
4:S:2936:TYR:HB3	4:S:2961:ALA:HA	1.91	0.51
4:S:3016:THR:OG1	4:S:3044:MET:SD	2.69	0.51
4:S:3338:ALA:HB2	4:S:3377:LEU:HB3	1.93	0.51
4:S:3414:MET:HE1	4:S:3464:LYS:HG3	1.93	0.51
5:T:275:ASN:HB3	8:W:27:DT:O5'	2.11	0.51
6:U:493:CYS:O	6:U:497:ARG:HB3	2.11	0.51
3:X:150:VAL:HG21	3:Y:146:LEU:HD22	1.93	0.51
2:M:670:THR:H	2:M:703:GLY:HA3	1.76	0.51
2:M:720:VAL:N	2:M:745:HIS:O	2.36	0.51
3:R:218:TYR:HA	3:R:221:VAL:HG22	1.92	0.51
4:F:2969:ALA:HB1	4:F:3002:TYR:CZ	2.46	0.51
4:F:3304:VAL:HB	4:F:3307:LEU:HD23	1.93	0.51
4:F:3502:MET:HG3	4:F:3518:VAL:HG11	1.93	0.51
5:G:327:ILE:HG21	6:H:494:LEU:HD23	1.93	0.51
5:G:364:PRO:HG3	6:H:358:GLY:H	1.76	0.51
6:H:456:ALA:HB3	6:H:532:LYS:HZ1	1.75	0.51
4:A:169:THR:HB	10:E:22:DG:H2'	1.93	0.51
4:A:229:SER:HA	4:A:278:HIS:CE1	2.46	0.51
4:A:630:CYS:O	4:A:634:LEU:N	2.25	0.51
4:A:931:CYS:HB3	4:A:983:LEU:HD22	1.91	0.51
4:A:981:ARG:O	4:A:985:GLU:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1184:ARG:NH2	4:A:1261:LEU:HB3	2.26	0.51
4:A:1589:ASN:HB3	4:A:1593:VAL:HG23	1.93	0.51
4:A:2150:VAL:HG23	4:A:2157:PHE:CD2	2.46	0.51
4:A:2429:ASP:O	4:A:2433:LYS:HB3	2.11	0.51
4:A:3546:SER:O	4:A:3550:LYS:NZ	2.42	0.51
4:A:3918:LEU:O	4:A:3946:PHE:N	2.30	0.51
4:S:128:LEU:O	4:S:132:ILE:HG23	2.11	0.51
4:S:192:ASN:O	4:S:196:LEU:HG	2.11	0.51
4:S:738:HIS:CD2	4:S:779:TYR:HB3	2.46	0.51
4:S:1287:GLN:HG3	4:S:1289:SER:H	1.76	0.51
4:S:1455:CYS:HA	4:S:1458:LEU:HD12	1.92	0.51
4:S:1767:CYS:HB3	6:U:625:ASP:O	2.11	0.51
4:S:3252:PHE:HE2	4:S:3989:ARG:HH11	1.58	0.51
4:S:4080:VAL:HG23	4:S:4115:ASN:HB3	1.93	0.51
5:T:77:SER:HB3	5:T:247:ARG:HA	1.93	0.51
5:T:185:ARG:O	5:T:189:LYS:HG2	2.11	0.51
5:T:386:LEU:HD13	5:T:431:GLY:N	2.26	0.51
6:U:184:ARG:HE	6:U:515:MET:C	2.18	0.51
6:U:385:ASP:HB3	6:U:412:ILE:HD11	1.93	0.51
6:U:646:ALA:HB2	6:U:655:PHE:HD2	1.75	0.51
2:M:663:GLU:HB3	2:M:697:THR:HA	1.93	0.50
1:O:192:ARG:O	1:O:196:ASN:ND2	2.44	0.50
2:P:889:LEU:HD13	2:P:893:TRP:CD2	2.46	0.50
3:Q:57:ARG:O	3:Q:60:GLU:HG2	2.11	0.50
4:F:174:VAL:HA	4:F:224:LEU:HB2	1.92	0.50
4:F:452:LYS:HG3	4:F:453:MET:H	1.76	0.50
4:F:921:ALA:O	4:F:927:LYS:HD2	2.10	0.50
4:F:1594:SER:HA	4:F:1597:LEU:HD12	1.92	0.50
4:F:2140:LEU:HA	4:F:2143:ARG:HB2	1.92	0.50
4:F:2217:ASN:HA	4:F:2220:MET:HE3	1.93	0.50
4:F:2233:HIS:CD2	4:F:2731:ARG:HG3	2.46	0.50
4:F:2939:LEU:HD23	4:F:2942:ILE:HG13	1.92	0.50
4:F:3146:SER:HA	4:F:3150:ASN:HD22	1.76	0.50
5:G:97:VAL:HG13	5:G:99:PHE:H	1.75	0.50
5:G:400:TYR:N	5:G:409:TYR:O	2.44	0.50
6:H:595:ALA:HA	6:H:598:PHE:CE2	2.46	0.50
4:A:1614:GLN:HA	4:A:1617:LYS:HZ2	1.75	0.50
4:A:1630:ASP:HA	4:A:1633:TRP:CE2	2.46	0.50
4:A:1927:MET:HG2	4:A:1934:LEU:HD12	1.92	0.50
4:A:2532:PRO:HB2	4:A:2537:ASP:OD1	2.10	0.50
4:A:2976:LEU:HD21	4:A:2995:GLU:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3512:VAL:HG22	4:A:3550:LYS:HD2	1.92	0.50
5:B:325:ARG:HE	6:C:88:PHE:HD2	1.60	0.50
6:C:237:PHE:HB3	6:C:511:HIS:NE2	2.26	0.50
4:S:43:VAL:HA	4:S:831:LEU:HD13	1.92	0.50
4:S:120:ALA:HA	4:S:171:LEU:HD11	1.93	0.50
4:S:719:LYS:HB3	4:S:1021:VAL:HG12	1.92	0.50
4:S:1696:LEU:HG	4:S:1758:LEU:HD21	1.93	0.50
4:S:2375:ALA:HB3	4:S:2404:ARG:CZ	2.42	0.50
4:S:2398:LEU:HD21	4:S:2423:VAL:HG11	1.92	0.50
4:S:3135:LEU:O	4:S:3138:ILE:HG22	2.11	0.50
4:S:3463:LEU:HB3	4:S:3770:VAL:HG13	1.92	0.50
4:S:3904:PHE:CE1	4:S:3930:VAL:HA	2.45	0.50
3:Y:12:PRO:HB3	3:Y:215:GLN:O	2.11	0.50
3:Y:97:CYS:HB3	3:Y:104:LEU:HD11	1.93	0.50
3:Y:134:HIS:HA	3:Y:138:PRO:HG2	1.93	0.50
3:R:8:LEU:HA	3:R:11:GLN:HB2	1.93	0.50
4:F:369:PHE:O	4:F:423:TYR:OH	2.29	0.50
4:F:642:PHE:O	4:F:646:VAL:HG13	2.12	0.50
4:F:786:GLN:NE2	4:F:786:GLN:O	2.44	0.50
4:F:985:GLU:O	4:F:989:MET:HG2	2.10	0.50
4:F:1065:SER:O	4:F:1069:HIS:ND1	2.45	0.50
4:F:1124:ILE:HG13	4:F:1125:GLN:N	2.26	0.50
4:F:1803:GLU:HA	4:F:1806:ARG:NH2	2.27	0.50
4:F:2307:MET:HE1	4:F:2319:ALA:HB3	1.93	0.50
4:F:2430:GLU:HA	4:F:2433:LYS:HE2	1.92	0.50
4:F:2555:LEU:HB3	4:F:2809:PHE:CE2	2.46	0.50
4:F:2738:LYS:HE3	7:I:43:DT:H3'	1.94	0.50
4:F:3192:LYS:O	4:F:3195:GLU:HG2	2.12	0.50
4:F:3737:ARG:HA	4:F:3751:LEU:HA	1.92	0.50
4:F:3894:PRO:O	4:F:3897:PHE:HB3	2.11	0.50
4:A:470:ALA:HA	4:A:556:SER:HB3	1.92	0.50
4:A:2376:ASP:C	4:A:2379:MET:HE1	2.36	0.50
4:A:3988:LEU:HD11	4:A:4051:LEU:HA	1.93	0.50
5:B:166:ILE:O	5:B:201:ASP:N	2.42	0.50
5:B:456:PRO:HA	5:B:459:VAL:HG22	1.94	0.50
4:S:13:LEU:HB2	4:S:59:PHE:CG	2.46	0.50
4:S:395:MET:HG3	4:S:410:MET:HE1	1.93	0.50
4:S:1357:LYS:HD2	4:S:1410:PRO:HD3	1.93	0.50
4:S:2327:LEU:HD23	4:S:2342:CYS:SG	2.52	0.50
4:S:3151:LEU:HD22	4:S:3196:LYS:H	1.75	0.50
4:S:3240:MET:HE1	4:S:3279:SER:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:220:ILE:HG13	5:T:221:ILE:HG13	1.93	0.50
5:T:318:ARG:N	5:T:329:LEU:O	2.44	0.50
6:U:132:ILE:HG13	6:U:161:LEU:HA	1.93	0.50
6:U:242:ARG:HE	8:W:38:DG:H21	1.59	0.50
6:U:243:HIS:HA	6:U:266:SER:HB2	1.92	0.50
6:U:335:SER:HB2	6:U:403:PRO:HG3	1.92	0.50
8:W:33:DA:H5'	8:W:33:DA:N3	2.26	0.50
3:Y:165:GLN:HG3	3:Y:183:PRO:HG3	1.92	0.50
2:P:840:ILE:HA	2:P:843:LEU:HD12	1.93	0.50
4:F:118:ASP:O	4:F:121:ALA:N	2.44	0.50
4:F:486:GLY:O	4:F:490:ILE:HG12	2.10	0.50
4:F:1273:GLU:HG3	4:F:1275:THR:HB	1.92	0.50
4:F:1574:ASN:ND2	4:F:1577:LEU:HB2	2.27	0.50
4:F:2091:HIS:N	4:F:2094:MET:HE2	2.25	0.50
4:F:2232:ARG:HD3	4:F:2235:LEU:HD12	1.93	0.50
4:F:3114:TYR:HA	4:F:3128:LYS:NZ	2.26	0.50
4:F:3663:THR:HA	4:F:3666:LEU:HB2	1.92	0.50
4:F:3728:VAL:HG22	4:F:3736:LYS:HG2	1.92	0.50
4:F:3931:ALA:HB3	4:F:3936:GLY:N	2.26	0.50
5:G:263:LEU:HA	5:G:347:LEU:H	1.76	0.50
5:G:453:MET:HE3	6:H:382:HIS:HB2	1.92	0.50
6:H:45:GLN:HE21	6:H:236:VAL:HG12	1.76	0.50
6:H:164:PHE:HA	6:H:169:LEU:HD11	1.92	0.50
6:H:219:ASP:OD1	6:H:219:ASP:N	2.43	0.50
4:A:355:ASN:HB3	4:A:358:GLU:HB2	1.92	0.50
4:A:901:MET:HG2	4:A:903:PRO:HD3	1.92	0.50
4:A:1035:GLU:HA	4:A:1038:LYS:HE2	1.93	0.50
4:A:3273:LEU:HD22	4:A:3315:TYR:CZ	2.47	0.50
4:A:3306:LEU:HB2	4:A:3330:LEU:HD13	1.94	0.50
4:A:3816:LEU:HB3	4:A:3820:MET:HE1	1.93	0.50
4:A:3956:PRO:HB3	4:A:4069:GLU:HG3	1.92	0.50
4:A:4090:ARG:HA	4:A:4093:GLU:HB2	1.92	0.50
6:C:381:ILE:HD12	6:C:418:CYS:HA	1.94	0.50
4:S:45:SER:HB2	4:S:88:PHE:CE2	2.45	0.50
4:S:217:LEU:HD23	4:S:218:PRO:HD3	1.93	0.50
4:S:733:LEU:HD22	4:S:748:TYR:CD1	2.46	0.50
4:S:904:VAL:HG11	4:S:2818:LYS:HD2	1.94	0.50
4:S:1952:ILE:HG22	4:S:2103:HIS:CE1	2.46	0.50
4:S:2359:LYS:HA	4:S:2362:VAL:HB	1.93	0.50
4:S:3768:PHE:CD1	4:S:3918:LEU:HD22	2.47	0.50
5:T:168:LEU:HD13	5:T:202:LEU:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:258:ARG:CA	7:V:34:DC:H5''	2.33	0.50
5:T:334:THR:O	5:T:338:LYS:HB2	2.11	0.50
6:U:47:PHE:HB2	6:U:234:LEU:HB2	1.94	0.50
6:U:246:HIS:HA	6:U:368:ARG:HG3	1.93	0.50
6:U:406:GLY:HA3	6:U:421:TYR:CE1	2.47	0.50
7:V:26:DA:H4'	8:W:34:DT:H3	1.76	0.50
1:L:140:LYS:HG3	1:L:143:HIS:ND1	2.26	0.50
1:N:124:ARG:NH1	1:O:15:SER:O	2.45	0.50
2:P:748:PRO:HA	2:P:751:LYS:HD2	1.93	0.50
2:P:820:LEU:HD11	2:P:841:LYS:HB3	1.92	0.50
3:Q:168:GLN:NE2	3:R:167:TYR:OH	2.43	0.50
4:F:1783:ARG:NH1	4:F:1826:THR:HA	2.25	0.50
4:F:2102:LYS:O	4:F:2106:ARG:HD3	2.11	0.50
4:F:2567:SER:HA	4:F:2572:TYR:CZ	2.46	0.50
4:F:3096:VAL:O	4:F:3100:LYS:N	2.35	0.50
6:H:617:ILE:O	6:H:621:GLU:HG3	2.10	0.50
6:H:662:LEU:HA	6:H:665:LYS:HG2	1.91	0.50
4:A:916:GLU:O	4:A:920:THR:N	2.44	0.50
4:A:2462:VAL:HA	4:A:2473:MET:HE1	1.94	0.50
4:A:3165:THR:HG21	4:A:3234:CYS:O	2.11	0.50
4:A:3484:THR:HG22	4:A:3505:LEU:HD21	1.93	0.50
4:A:3596:LEU:HD21	4:A:3660:ASN:HB3	1.94	0.50
4:A:3701:ILE:HD11	4:A:3748:HIS:CD2	2.46	0.50
4:A:3710:LYS:NZ	4:A:3713:PRO:HB3	2.27	0.50
5:B:468:LYS:HB3	5:B:518:LEU:HD13	1.94	0.50
4:S:714:VAL:HG11	4:S:732:PHE:CD2	2.46	0.50
4:S:1952:ILE:HG22	4:S:2103:HIS:HE1	1.77	0.50
4:S:2773:ARG:HH21	4:S:2775:TYR:HA	1.76	0.50
4:S:3924:HIS:NE2	4:S:3927:ASN:OD1	2.44	0.50
5:T:282:LYS:HE3	5:T:482:VAL:HG13	1.93	0.50
5:T:484:GLN:O	5:T:488:ARG:HG2	2.11	0.50
6:U:656:ASN:HB3	6:U:688:LYS:HA	1.92	0.50
1:N:10:LEU:HD11	1:N:88:PHE:HD2	1.77	0.50
1:N:173:GLU:HG3	1:O:169:LYS:HE2	1.92	0.50
2:P:670:THR:HA	2:P:673:GLN:O	2.11	0.50
3:Q:128:PRO:HB2	3:R:43:GLN:HG3	1.92	0.50
4:F:51:LEU:HD22	4:F:3101:TYR:HA	1.93	0.50
4:F:410:MET:HB3	4:F:442:GLN:OE1	2.12	0.50
4:F:483:VAL:HG23	4:F:571:SER:HB3	1.92	0.50
4:F:1206:LEU:HA	4:F:1209:LYS:HG2	1.94	0.50
4:F:1725:GLN:HE22	4:F:1727:ARG:NH2	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1816:ARG:HA	4:F:1819:PHE:CE1	2.44	0.50
4:F:1848:ILE:HD11	4:F:1915:LEU:HD11	1.92	0.50
4:F:2090:ARG:NH2	4:F:2094:MET:SD	2.85	0.50
4:F:2382:VAL:HA	4:F:2385:LEU:HG	1.94	0.50
4:F:3584:LEU:HD13	4:F:3616:ALA:HB1	1.92	0.50
5:G:341:ASP:OD1	5:G:341:ASP:N	2.44	0.50
5:G:349:GLY:HA2	6:H:463:LEU:HD13	1.94	0.50
6:H:16:VAL:HG12	6:H:16:VAL:O	2.11	0.50
6:H:40:MET:HE2	6:H:44:ARG:CZ	2.41	0.50
6:H:489:ARG:HD2	6:H:508:ILE:HG13	1.93	0.50
4:A:1887:ASP:N	4:A:1887:ASP:OD1	2.44	0.50
4:A:2832:ILE:O	4:A:2835:LYS:HG3	2.12	0.50
4:A:3483:MET:O	4:A:3487:ILE:HG12	2.12	0.50
4:A:3588:TRP:HD1	4:A:3609:MET:SD	2.34	0.50
4:S:491:CYS:O	4:S:622:ALA:HA	2.12	0.50
4:S:915:THR:HA	4:S:934:LEU:HD12	1.94	0.50
4:S:943:GLY:HA3	4:S:2783:ILE:HG23	1.93	0.50
4:S:1280:GLN:O	4:S:1285:GLU:HG2	2.11	0.50
4:S:2307:MET:HE2	4:S:2320:ALA:N	2.26	0.50
4:S:2532:PRO:HD2	4:S:2541:ALA:HB2	1.93	0.50
4:S:3691:LYS:HE2	4:S:3722:PHE:HE2	1.76	0.50
4:S:3700:GLU:HG2	4:S:3701:ILE:H	1.75	0.50
6:U:299:ASP:OD2	6:U:303:THR:OG1	2.23	0.50
1:K:55:GLU:HB2	1:K:66:TYR:OH	2.11	0.50
1:L:95:PHE:HB3	1:L:111:PHE:HB2	1.93	0.50
1:L:153:ARG:NH2	1:L:156:ASN:OD1	2.44	0.50
2:M:837:ARG:HE	2:M:841:LYS:NZ	2.10	0.50
2:P:713:ILE:O	2:P:745:HIS:NE2	2.45	0.50
2:P:716:ASN:HA	2:P:745:HIS:CE1	2.36	0.50
4:F:847:SER:O	4:F:850:GLU:HG2	2.12	0.50
4:F:1789:GLY:O	4:F:1794:GLN:NE2	2.44	0.50
4:F:2269:ASP:OD1	4:F:2269:ASP:N	2.42	0.50
4:F:3120:LEU:HA	4:F:3122:HIS:NE2	2.27	0.50
4:F:3321:LEU:HD22	4:F:3392:ALA:HB1	1.94	0.50
4:F:3420:CYS:O	4:F:3424:LEU:HG	2.12	0.50
4:F:3459:ASN:HA	4:F:3462:ARG:HB3	1.94	0.50
6:H:56:LEU:O	6:H:80:HIS:N	2.41	0.50
6:H:632:PHE:HE2	6:H:677:ILE:HB	1.76	0.50
8:J:25:DT:H3'	8:J:26:DT:C2	2.47	0.50
4:A:1679:LEU:HD13	4:A:1713:VAL:HG21	1.94	0.50
4:A:3951:GLN:HB3	4:A:4064:LEU:C	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:4098:LEU:HD13	4:A:4102:THR:HB	1.92	0.50
5:B:283:PRO:HG2	6:C:314:PHE:HD2	1.77	0.50
6:C:341:SER:OG	6:C:394:ARG:O	2.24	0.50
4:S:98:GLN:HG2	4:S:144:MET:HE2	1.93	0.50
4:S:436:GLU:O	4:S:440:VAL:HG12	2.11	0.50
4:S:960:GLN:O	4:S:964:ARG:HG2	2.12	0.50
4:S:1044:ILE:HG21	4:S:1049:GLN:HB2	1.93	0.50
4:S:1787:ARG:HB3	4:S:1830:HIS:CE1	2.47	0.50
4:S:2510:LEU:HD13	4:S:2525:TRP:CD1	2.46	0.50
4:S:3950:THR:H	4:S:4066:LEU:C	2.19	0.50
5:T:481:PRO:HD2	6:U:403:PRO:HB2	1.93	0.50
6:U:404:GLN:HB2	6:U:423:GLN:HG3	1.93	0.50
1:K:127:ILE:HG21	1:L:19:PHE:CZ	2.47	0.50
1:L:188:LYS:HA	1:L:191:ILE:HG22	1.94	0.50
2:M:669:GLY:HA2	2:M:703:GLY:HA3	1.93	0.50
1:N:141:ASN:O	1:N:144:LEU:HB2	2.11	0.50
4:F:337:LYS:HA	4:F:341:PHE:CG	2.47	0.50
4:F:637:LYS:NZ	4:F:640:GLU:HB2	2.27	0.50
4:F:723:ASP:C	4:F:725:LEU:H	2.20	0.50
4:F:745:VAL:HA	4:F:748:TYR:HD2	1.77	0.50
4:F:1237:ALA:HB3	4:F:1296:PHE:CE2	2.47	0.50
4:F:1958:GLU:OE1	4:F:1958:GLU:N	2.38	0.50
4:F:2291:GLN:CD	4:F:2292:CYS:H	2.20	0.50
4:F:2575:PRO:HB3	4:F:2784:GLN:O	2.12	0.50
4:F:2809:PHE:HB3	4:F:2813:PHE:CE2	2.35	0.50
4:F:3793:VAL:HB	4:F:3803:ILE:HG22	1.93	0.50
5:G:365:SER:HA	5:G:436:PHE:CE1	2.46	0.50
5:G:383:SER:HB2	6:H:446:PRO:HD3	1.93	0.50
5:G:461:LYS:HZ2	5:G:525:PHE:HB3	1.76	0.50
6:H:133:GLU:HA	6:H:164:PHE:HD2	1.76	0.50
6:H:334:LYS:HB2	6:H:403:PRO:HD3	1.93	0.50
4:A:295:GLU:HB3	4:A:299:LYS:HZ3	1.77	0.50
4:A:524:TYR:HD2	4:A:629:PHE:HB2	1.75	0.50
4:A:773:LEU:HD22	4:A:796:LEU:HD11	1.93	0.50
4:A:867:ASN:HD22	4:A:3133:GLN:HE21	1.59	0.50
4:A:1071:ASN:ND2	4:A:1073:PHE:HB2	2.27	0.50
4:A:1431:LEU:HD23	4:A:1434:VAL:HG11	1.93	0.50
4:A:2786:LYS:O	4:A:2789:SER:OG	2.27	0.50
4:A:3929:MET:SD	4:A:3930:VAL:N	2.85	0.50
9:D:31:DA:H2"	9:D:32:DA:N7	2.27	0.50
4:S:363:ILE:O	4:S:416:SER:OG	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1107:TYR:CZ	4:S:1128:CYS:HB3	2.47	0.50
4:S:1169:VAL:HB	4:S:1198:LEU:HD21	1.94	0.50
4:S:2459:VAL:HG11	4:S:2501:LEU:HG	1.94	0.50
4:S:2920:VAL:HG12	4:S:2947:ILE:HD12	1.94	0.50
4:S:3303:THR:OG1	4:S:3355:LYS:NZ	2.38	0.50
4:S:3717:VAL:HG23	4:S:3743:HIS:CD2	2.46	0.50
3:X:184:PHE:CE2	3:Y:149:GLN:HG3	2.43	0.50
2:M:672:SER:HB2	2:M:727:LEU:HD11	1.94	0.50
1:O:95:PHE:CD2	1:O:111:PHE:HD2	2.30	0.50
3:R:4:LEU:HB3	3:R:35:ALA:HB2	1.94	0.50
4:F:388:LEU:HA	4:F:391:ARG:HG2	1.94	0.50
4:F:738:HIS:N	4:F:775:GLU:OE2	2.45	0.50
4:F:991:LEU:HD23	4:F:2781:PRO:HG2	1.94	0.50
4:F:1164:CYS:SG	4:F:1165:LEU:N	2.85	0.50
4:F:1512:SER:O	4:F:1515:LEU:HB2	2.12	0.50
4:F:1839:PHE:CE2	4:F:1843:ILE:HD13	2.46	0.50
4:F:2328:ARG:HE	4:F:2370:SER:C	2.19	0.50
4:F:2586:PHE:HE1	4:F:2782:ASP:HA	1.77	0.50
4:F:3090:TYR:HB3	4:F:3099:ALA:HB2	1.94	0.50
4:F:3559:LYS:HA	4:F:3562:LEU:HD12	1.93	0.50
6:H:246:HIS:NE2	8:J:36:DG:OP2	2.42	0.50
6:H:496:HIS:HA	6:H:500:HIS:CE1	2.47	0.50
6:H:496:HIS:NE2	6:H:504:PRO:O	2.42	0.50
4:A:63:PHE:HA	4:A:66:LEU:HD12	1.93	0.50
4:A:244:THR:HG23	4:A:285:CYS:SG	2.52	0.50
4:A:1176:CYS:SG	4:A:1187:SER:HB2	2.52	0.50
4:A:2317:ALA:O	4:A:2366:LYS:HG2	2.12	0.50
4:A:2439:ILE:HA	4:A:2442:MET:HG3	1.94	0.50
4:A:3155:VAL:CG1	4:A:3156:PRO:HD3	2.42	0.50
4:A:3186:ARG:HA	4:A:3189:PHE:HD2	1.77	0.50
4:A:3717:VAL:HG11	4:A:3746:ARG:HB2	1.94	0.50
5:B:283:PRO:HG2	6:C:314:PHE:HB3	1.93	0.50
4:S:1238:GLN:HB2	4:S:1239:PRO:HD3	1.93	0.50
4:S:1711:ARG:HE	4:S:1761:LEU:HD13	1.77	0.50
4:S:3130:GLN:HB3	4:S:3178:ILE:HG21	1.94	0.50
4:S:4104:VAL:HA	4:S:4107:LEU:HB3	1.94	0.50
5:T:168:LEU:HB3	5:T:202:LEU:HA	1.93	0.50
5:T:258:ARG:CZ	7:V:34:DC:H3'	2.42	0.50
6:U:247:TRP:HH2	6:U:340:PHE:CD1	2.29	0.50
7:V:39:DA:H4'	8:W:21:DA:H1'	1.94	0.50
1:N:191:ILE:HG13	1:O:191:ILE:HG13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:23:LEU:HB3	3:R:40:ASP:HB3	1.94	0.50
4:F:462:VAL:HG12	4:F:534:LEU:HD23	1.94	0.50
4:F:654:ILE:HG12	4:F:710:PHE:CD1	2.47	0.50
4:F:785:MET:HG3	4:F:789:TYR:CE1	2.47	0.50
4:F:991:LEU:O	4:F:995:PHE:N	2.42	0.50
4:F:1456:LYS:NZ	4:F:1516:GLU:O	2.39	0.50
4:F:1457:GLN:HG2	4:F:1460:ARG:HH21	1.77	0.50
4:F:1560:TYR:CE1	4:F:1564:SER:HA	2.46	0.50
4:F:2233:HIS:NE2	4:F:2727:ARG:HB3	2.27	0.50
4:F:3090:TYR:HA	4:F:3093:GLN:HG2	1.94	0.50
4:F:3595:GLU:HB2	4:F:3606:ILE:HD11	1.92	0.50
4:F:3777:GLN:CB	4:F:3787:GLN:HB3	2.41	0.50
5:G:303:PHE:N	6:H:290:GLN:O	2.44	0.50
6:H:164:PHE:CD1	6:H:225:TYR:HB2	2.47	0.50
4:A:1802:TYR:CZ	4:A:1843:ILE:HB	2.47	0.50
4:A:2773:ARG:NH2	4:A:2774:SER:OG	2.39	0.50
4:A:3835:PRO:HG3	4:A:3877:LYS:HB2	1.94	0.50
6:C:57:VAL:HA	6:C:79:VAL:HA	1.93	0.50
4:S:1211:VAL:HA	4:S:1214:GLU:HG2	1.94	0.50
4:S:2510:LEU:O	4:S:2518:GLN:NE2	2.42	0.50
4:S:2972:TYR:HB3	4:S:2998:SER:HA	1.93	0.50
4:S:3809:THR:HB	4:S:3938:ILE:HD13	1.93	0.50
1:K:178:LYS:O	1:K:182:LEU:HG	2.11	0.49
2:P:753:HIS:O	2:P:757:GLU:HG2	2.12	0.49
3:R:147:GLN:HE21	3:R:151:ARG:HG2	1.76	0.49
4:F:1294:VAL:O	4:F:1367:HIS:NE2	2.44	0.49
4:F:1401:ASN:HA	4:F:1404:LYS:HE2	1.94	0.49
4:F:2527:HIS:O	4:F:2531:LEU:N	2.44	0.49
4:F:2916:LEU:HD21	4:F:2946:GLU:HG2	1.93	0.49
4:F:3041:LEU:HA	4:F:3044:MET:HE2	1.93	0.49
4:F:3090:TYR:OH	4:F:3095:ASP:OD2	2.30	0.49
4:F:3280:TYR:HD2	4:F:3306:LEU:HD11	1.77	0.49
4:F:3631:LYS:HA	4:F:3634:GLN:HG2	1.94	0.49
4:F:3967:PHE:O	4:F:3970:LEU:HD22	2.12	0.49
5:G:348:MET:HA	6:H:518:PRO:HB3	1.94	0.49
6:H:251:LEU:HD13	6:H:340:PHE:CD2	2.47	0.49
6:H:409:PHE:HB3	6:H:420:VAL:HG23	1.94	0.49
6:H:656:ASN:ND2	6:H:689:GLU:O	2.40	0.49
4:A:357:LYS:HG3	4:A:409:GLN:HG2	1.94	0.49
4:A:1272:GLY:HA2	4:A:1351:THR:HG21	1.94	0.49
4:A:1294:VAL:HG13	4:A:1368:LEU:HD11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2387:PRO:HG2	5:B:155:SER:HB2	1.93	0.49
4:A:2936:TYR:HA	4:A:2939:LEU:HB3	1.94	0.49
4:A:3090:TYR:CG	4:A:3102:TYR:HE2	2.30	0.49
4:A:3113:ASN:HB3	4:A:3128:LYS:HZ3	1.77	0.49
5:B:164:LYS:HB2	5:B:198:ILE:HA	1.94	0.49
6:C:119:GLN:HE22	6:C:153:SER:HA	1.76	0.49
4:S:918:ALA:HB1	4:S:931:CYS:HA	1.94	0.49
4:S:2208:ASP:OD1	4:S:2209:GLU:N	2.45	0.49
4:S:2782:ASP:OD1	4:S:2782:ASP:N	2.42	0.49
4:S:2937:ASP:OD2	4:S:3982:SER:N	2.45	0.49
4:S:3359:ILE:O	4:S:3363:SER:OG	2.29	0.49
4:S:3420:CYS:O	4:S:3424:LEU:HG	2.12	0.49
4:S:3811:THR:HG23	4:S:3814:ASP:H	1.76	0.49
4:S:3887:PHE:CE2	4:S:3970:LEU:HB2	2.46	0.49
4:S:3890:MET:HB2	4:S:3900:LEU:HD23	1.93	0.49
5:T:33:SER:HB3	5:T:160:LYS:HD3	1.94	0.49
5:T:41:LEU:HD23	5:T:166:ILE:HG23	1.94	0.49
5:T:144:SER:O	5:T:189:LYS:NZ	2.43	0.49
5:T:439:PHE:N	5:T:442:ASP:OD2	2.39	0.49
1:K:177:TYR:HA	2:M:774:LEU:HD23	1.94	0.49
1:L:169:LYS:HE2	2:M:847:PHE:CD1	2.46	0.49
2:M:747:CYS:SG	2:M:749:SER:OG	2.61	0.49
2:M:845:LEU:HG	2:M:894:VAL:HG21	1.94	0.49
2:M:891:GLU:O	2:M:895:THR:HG23	2.12	0.49
1:N:158:VAL:HG12	2:P:840:ILE:HG13	1.95	0.49
4:F:642:PHE:CE2	4:F:646:VAL:HG12	2.47	0.49
4:F:770:LEU:HA	4:F:773:LEU:HD12	1.94	0.49
4:F:828:LYS:C	4:F:832:LYS:HZ1	2.21	0.49
4:F:964:ARG:NH1	4:F:965:THR:OG1	2.45	0.49
4:F:2415:LEU:HA	4:F:2418:LYS:HB2	1.93	0.49
4:F:3739:ILE:HG12	4:F:3749:PRO:HB3	1.93	0.49
4:F:4055:ASN:HB2	4:F:4095:GLU:HA	1.94	0.49
5:G:489:ASN:OD1	6:H:331:MET:HE2	2.12	0.49
4:A:41:GLU:HA	4:A:44:LEU:HB3	1.93	0.49
4:A:278:HIS:HB3	4:A:281:GLN:HB2	1.94	0.49
4:A:733:LEU:HD21	4:A:748:TYR:HB3	1.94	0.49
4:A:1607:GLU:HB2	4:A:1611:GLN:HB2	1.94	0.49
4:A:1696:LEU:O	4:A:1700:THR:N	2.34	0.49
6:C:335:SER:HA	6:C:403:PRO:HD3	1.94	0.49
6:C:447:THR:HG21	6:C:536:LEU:HD22	1.94	0.49
9:D:42:DA:N7	9:D:43:DT:N3	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:748:TYR:HB2	4:S:776:TRP:HZ2	1.78	0.49
4:S:926:THR:HG23	4:S:2800:ARG:HD2	1.95	0.49
4:S:1651:LYS:O	4:S:1655:ILE:HG13	2.13	0.49
4:S:1651:LYS:HA	4:S:1654:GLN:HB3	1.95	0.49
4:S:2132:LYS:O	4:S:2135:ASN:ND2	2.44	0.49
4:S:3874:ARG:NH1	4:S:4126:PRO:HB2	2.27	0.49
5:T:273:ILE:HG13	5:T:368:VAL:HG22	1.93	0.49
1:K:5:ILE:HD11	1:K:126:LEU:HG	1.94	0.49
1:K:32:PHE:CE2	1:K:74:LEU:HD21	2.48	0.49
1:K:145:GLN:HB2	1:L:144:LEU:HD23	1.94	0.49
3:Q:148:CYS:HB2	3:R:193:PHE:HZ	1.77	0.49
4:F:665:GLY:HA2	4:F:668:LYS:HE3	1.93	0.49
4:F:717:LYS:NZ	4:F:1120:SER:O	2.28	0.49
4:F:1017:ILE:HG13	4:F:1029:CYS:SG	2.52	0.49
4:F:2361:ILE:HG13	4:F:2396:LEU:HD22	1.95	0.49
4:F:2920:VAL:HA	4:F:2923:TRP:HB2	1.95	0.49
4:F:3002:TYR:HA	4:F:3005:LEU:HB3	1.94	0.49
4:F:3104:GLN:HA	4:F:3107:ILE:HD12	1.93	0.49
4:F:3559:LYS:HA	4:F:3562:LEU:HB2	1.94	0.49
4:F:3837:CYS:SG	4:F:3838:GLU:N	2.84	0.49
4:F:3882:LEU:HA	4:F:3885:ARG:HG3	1.93	0.49
5:G:143:LEU:O	5:G:147:LEU:HG	2.12	0.49
6:H:181:GLY:N	6:H:463:LEU:HG	2.27	0.49
6:H:311:ILE:HD13	6:H:322:PRO:HB2	1.94	0.49
7:I:30:DA:H1'	8:J:28:DA:C2	2.47	0.49
4:A:127:ALA:HA	4:A:130:LEU:HD12	1.94	0.49
4:A:642:PHE:HA	4:A:645:TRP:HD1	1.78	0.49
4:A:1261:LEU:O	4:A:1265:GLU:HB2	2.12	0.49
4:A:3000:ASP:O	4:A:3004:HIS:ND1	2.45	0.49
4:A:3784:ARG:HG3	4:A:3786:LEU:HG	1.94	0.49
4:A:3816:LEU:O	4:A:3819:THR:N	2.45	0.49
4:A:4061:CYS:O	4:A:4065:LEU:N	2.44	0.49
6:C:221:LEU:HA	6:C:224:ILE:HD12	1.94	0.49
4:S:79:ARG:HH22	4:S:119:ARG:HD3	1.75	0.49
4:S:2193:ILE:HA	4:S:2196:TRP:CH2	2.47	0.49
4:S:2275:GLN:O	4:S:2279:ILE:HG12	2.11	0.49
4:S:3096:VAL:HA	4:S:3099:ALA:HB3	1.94	0.49
4:S:3571:PHE:HE2	4:S:3686:TRP:HB3	1.77	0.49
3:X:145:ALA:HB1	3:X:217:LEU:HB3	1.94	0.49
2:M:750:THR:HG22	2:M:754:PHE:CZ	2.48	0.49
3:Q:211:VAL:O	3:Q:215:GLN:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:149:ILE:HA	4:F:152:LEU:HB2	1.94	0.49
4:F:175:TYR:CE1	4:F:204:LEU:HG	2.48	0.49
4:F:1075:ARG:HD3	4:F:1113:LEU:HD23	1.93	0.49
4:F:2363:CYS:O	4:F:2367:VAL:HG12	2.13	0.49
4:F:2965:TYR:HD2	4:F:3253:SER:HB3	1.76	0.49
4:F:3981:TYR:O	4:F:3985:VAL:HG23	2.12	0.49
5:G:142:SER:HA	5:G:182:LYS:HZ1	1.77	0.49
5:G:339:ARG:HG3	5:G:405:ASN:HA	1.94	0.49
5:G:401:THR:OG1	5:G:408:PRO:HB3	2.12	0.49
6:H:447:THR:O	6:H:451:LEU:N	2.42	0.49
7:I:23:DT:H6	7:I:23:DT:H5''	1.78	0.49
7:I:32:DA:C6	8:J:25:DT:C4	3.00	0.49
4:A:332:GLU:O	4:A:334:HIS:N	2.45	0.49
4:A:1184:ARG:NE	4:A:1265:GLU:OE1	2.40	0.49
4:A:1297:PHE:O	4:A:1301:ILE:HG12	2.12	0.49
4:A:1341:ILE:HG13	4:A:1342:MET:SD	2.52	0.49
4:A:2102:LYS:HB2	4:A:2106:ARG:HH12	1.77	0.49
4:A:2979:GLN:HB3	4:A:2985:GLU:OE1	2.13	0.49
4:A:3445:LEU:O	4:A:3449:LYS:HG2	2.13	0.49
4:A:3627:ALA:HB3	4:A:3678:GLY:HA3	1.94	0.49
5:B:352:PRO:HB2	5:B:354:VAL:HG22	1.93	0.49
5:B:490:LEU:HD22	6:C:316:TYR:HB2	1.94	0.49
6:C:12:LEU:HD12	6:C:14:MET:HE3	1.95	0.49
6:C:342:VAL:HA	6:C:394:ARG:H	1.77	0.49
4:S:1107:TYR:CD2	4:S:1131:ILE:HG23	2.48	0.49
4:S:1783:ARG:O	4:S:1830:HIS:ND1	2.42	0.49
4:S:3150:ASN:HD22	4:S:3155:VAL:HG11	1.77	0.49
4:S:4099:SER:O	4:S:4103:GLN:N	2.38	0.49
4:S:4112:THR:O	4:S:4116:ILE:N	2.43	0.49
6:U:14:MET:HG3	6:U:135:PHE:HB2	1.94	0.49
1:K:184:LEU:HD22	1:L:183:VAL:HG22	1.95	0.49
1:L:22:VAL:HG11	1:L:74:LEU:HD13	1.94	0.49
1:L:170:GLU:HA	2:M:814:ARG:HH22	1.77	0.49
1:N:17:THR:HG22	1:O:124:ARG:HE	1.78	0.49
1:N:20:LEU:HG	1:N:22:VAL:HG13	1.94	0.49
3:Q:149:GLN:HA	3:R:189:PHE:HZ	1.78	0.49
4:F:131:LEU:HD11	4:F:173:LYS:HE3	1.94	0.49
4:F:477:ASN:OD1	4:F:478:CYS:N	2.46	0.49
4:F:1166:LEU:O	4:F:1170:LYS:HG2	2.12	0.49
4:F:1418:HIS:O	4:F:1422:LYS:HG2	2.13	0.49
4:F:1576:ASP:HA	4:F:1579:VAL:HB	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2987:THR:HG22	4:F:2990:GLU:HB2	1.94	0.49
4:F:3381:ALA:O	4:F:3385:LEU:HG	2.12	0.49
4:F:4010:SER:H	4:F:4038:TRP:HZ2	1.61	0.49
5:G:97:VAL:HG22	5:G:99:PHE:CD1	2.47	0.49
5:G:368:VAL:HG23	5:G:434:LEU:HD21	1.94	0.49
6:H:132:ILE:HD11	6:H:161:LEU:HB2	1.95	0.49
6:H:148:ASP:N	6:H:148:ASP:OD1	2.44	0.49
6:H:300:ASP:OD1	6:H:300:ASP:N	2.44	0.49
4:A:36:ARG:HE	4:A:2425:ARG:C	2.21	0.49
4:A:1663:THR:HB	4:A:1665:HIS:CE1	2.48	0.49
4:A:1933:LEU:HD12	4:A:1934:LEU:HD22	1.95	0.49
4:A:3079:GLU:OE2	4:A:3083:SER:OG	2.29	0.49
4:A:4125:GLU:HB3	4:A:4128:MET:HE3	1.95	0.49
5:B:357:LYS:C	5:B:359:HIS:H	2.20	0.49
9:D:44:DG:H2'	10:E:14:DT:O5'	2.13	0.49
4:S:443:ILE:HG22	4:S:527:TYR:CE1	2.44	0.49
4:S:851:ILE:HD13	4:S:854:ARG:HH21	1.76	0.49
4:S:1064:TYR:OH	4:S:1099:PHE:HB3	2.12	0.49
4:S:1172:LEU:HD21	4:S:1190:LEU:HB3	1.93	0.49
4:S:1322:THR:O	4:S:1327:GLY:N	2.43	0.49
4:S:1375:THR:HA	4:S:1379:PRO:HA	1.94	0.49
4:S:1874:TYR:HB2	4:S:1943:ALA:HB1	1.94	0.49
4:S:2094:MET:O	4:S:2097:LEU:HB2	2.11	0.49
4:S:2943:PHE:O	4:S:2948:GLY:HA3	2.12	0.49
5:T:190:ALA:O	5:T:193:LEU:HG	2.13	0.49
5:T:238:LYS:HB2	5:T:242:LEU:HG	1.94	0.49
5:T:474:ARG:HE	5:T:475:SER:H	1.61	0.49
6:U:44:ARG:NH2	6:U:232:ARG:H	2.11	0.49
6:U:325:LYS:HB3	8:W:33:DA:H5''	1.94	0.49
1:K:168:ALA:HB1	2:M:810:LEU:HD22	1.93	0.49
1:K:194:LEU:HB3	1:L:194:LEU:HG	1.93	0.49
1:L:3:ARG:NH2	1:L:44:THR:OG1	2.41	0.49
2:M:665:CYS:HB3	2:M:700:VAL:HA	1.94	0.49
2:M:872:VAL:O	2:M:876:LYS:HG2	2.13	0.49
3:Q:33:GLY:O	3:Q:73:LEU:HD11	2.13	0.49
3:R:190:LEU:O	3:R:194:MET:HG2	2.13	0.49
4:F:388:LEU:HD11	4:F:413:PHE:CG	2.48	0.49
4:F:905:ILE:HG23	4:F:2811:SER:HB2	1.95	0.49
4:F:1431:LEU:HD23	4:F:1448:LEU:HB2	1.93	0.49
4:F:1612:LYS:HE2	4:F:1655:ILE:HG23	1.94	0.49
4:F:1801:VAL:HA	4:F:1804:MET:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2232:ARG:HA	4:F:2235:LEU:HG	1.94	0.49
4:F:2439:ILE:HA	4:F:2442:MET:HG3	1.94	0.49
4:F:2519:LEU:HD12	4:F:2522:ARG:HD3	1.94	0.49
4:F:2809:PHE:O	4:F:2812:LEU:HG	2.13	0.49
4:F:2833:THR:HG21	4:F:2867:ALA:HB1	1.94	0.49
5:G:471:PHE:HB2	6:H:345:PHE:H	1.76	0.49
6:H:397:TYR:CE1	7:I:24:DA:H5"	2.48	0.49
6:H:457:LEU:O	6:H:461:MET:HB2	2.12	0.49
4:A:40:GLN:OE1	4:A:2427:ARG:HB2	2.13	0.49
4:A:1637:SER:OG	4:A:1642:LYS:HG3	2.12	0.49
4:A:1747:LEU:HD21	4:A:1778:PHE:CZ	2.47	0.49
4:A:1780:SER:HB2	4:A:1784:ARG:HH12	1.78	0.49
4:A:3150:ASN:HB3	4:A:3156:PRO:HG3	1.94	0.49
4:S:157:TYR:HD1	4:S:160:LEU:HD23	1.78	0.49
4:S:327:VAL:HA	4:S:330:ASN:OD1	2.13	0.49
4:S:538:ASP:N	4:S:561:ASN:OD1	2.45	0.49
4:S:899:ARG:HH21	4:S:2535:THR:HG23	1.78	0.49
4:S:1173:LEU:HD13	4:S:1191:PHE:CE2	2.47	0.49
4:S:1632:TRP:HB3	4:S:1645:VAL:HG11	1.94	0.49
4:S:2157:PHE:O	4:S:2161:ALA:N	2.45	0.49
4:S:2353:GLN:HB3	4:S:2360:PHE:HB2	1.95	0.49
6:U:153:SER:HA	6:U:156:LYS:HE2	1.94	0.49
6:U:655:PHE:HA	6:U:658:PHE:HB2	1.95	0.49
3:X:39:SER:HA	3:X:44:VAL:HG22	1.94	0.49
3:X:156:LEU:HD23	3:Y:157:LEU:HD11	1.93	0.49
1:O:161:ARG:HA	1:O:164:LYS:HE2	1.93	0.49
2:P:793:ALA:HB2	2:P:814:ARG:HH11	1.77	0.49
3:Q:12:PRO:HB2	3:Q:215:GLN:HG3	1.94	0.49
3:Q:75:HIS:CE1	3:Q:112:LEU:HD11	2.47	0.49
4:F:25:CYS:SG	4:F:26:GLY:N	2.86	0.49
4:F:638:GLN:HG3	4:F:679:LYS:NZ	2.28	0.49
4:F:1000:LYS:HA	4:F:1004:GLN:NE2	2.27	0.49
4:F:1048:GLN:OE1	4:F:1048:GLN:N	2.46	0.49
4:F:1294:VAL:HA	4:F:1297:PHE:CD2	2.48	0.49
4:F:1323:SER:N	4:F:1328:GLU:OE2	2.46	0.49
4:F:1388:ASP:HB3	4:F:1392:MET:HE1	1.94	0.49
4:F:2268:LYS:HD3	4:F:2312:TYR:CD2	2.47	0.49
4:F:2492:ASP:O	4:F:2496:GLN:N	2.39	0.49
4:F:3988:LEU:HD12	4:F:3991:PHE:HB2	1.94	0.49
5:G:125:GLN:O	5:G:129:LYS:HG2	2.13	0.49
5:G:276:LEU:HB2	6:H:431:ARG:C	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:595:ALA:HA	6:H:598:PHE:CZ	2.48	0.49
8:J:37:DG:OP1	8:J:37:DG:H2'	2.12	0.49
4:A:408:TYR:CD1	4:A:441:MET:HB3	2.48	0.49
4:A:1226:GLY:HA2	4:A:1263:ALA:HB2	1.95	0.49
4:A:1281:VAL:HG13	4:A:1282:LEU:HG	1.95	0.49
4:A:1369:MET:O	4:A:1373:VAL:HG23	2.13	0.49
4:A:1370:ARG:HG3	4:A:1418:HIS:NE2	2.28	0.49
4:A:1536:ALA:O	4:A:1555:HIS:N	2.43	0.49
4:A:1801:VAL:O	4:A:1805:PHE:CB	2.61	0.49
4:A:2338:GLU:CD	4:A:2340:SER:H	2.20	0.49
4:A:2571:ASP:HA	4:A:2574:ASN:OD1	2.13	0.49
4:A:2937:ASP:O	4:A:3978:GLY:HA2	2.11	0.49
4:A:2995:GLU:HB3	4:A:3019:ILE:HG22	1.95	0.49
4:A:3031:TRP:HD1	4:A:3037:GLN:HE22	1.61	0.49
4:A:3871:PHE:CZ	4:A:4117:LEU:HD13	2.48	0.49
4:S:163:LYS:HE3	5:T:301:ARG:HA	1.95	0.49
4:S:522:PRO:HB2	4:S:527:TYR:HE2	1.78	0.49
4:S:1849:ASP:OD1	4:S:1850:VAL:N	2.45	0.49
4:S:2290:PRO:O	4:S:2293:GLY:N	2.36	0.49
4:S:3713:PRO:HB2	4:S:3716:HIS:HB2	1.95	0.49
4:S:3997:LEU:O	4:S:4001:THR:HG22	2.13	0.49
1:K:51:GLU:O	1:K:55:GLU:HG2	2.13	0.49
1:L:190:LYS:HE2	2:M:765:TYR:CG	2.48	0.49
2:P:747:CYS:O	2:P:751:LYS:HG3	2.12	0.49
4:F:35:ILE:HG13	4:F:38:LEU:HD23	1.95	0.49
4:F:112:THR:O	4:F:116:THR:HG23	2.12	0.49
4:F:209:THR:O	4:F:212:VAL:HG22	2.13	0.49
4:F:781:ASP:OD2	4:F:783:HIS:ND1	2.45	0.49
4:F:1121:LEU:HG	4:F:1123:THR:H	1.77	0.49
4:F:1555:HIS:HB3	4:F:1559:PHE:CZ	2.48	0.49
4:F:3305:SER:OG	4:F:3308:ASP:OD1	2.21	0.49
4:F:3606:ILE:HG22	4:F:3647:GLY:HA3	1.94	0.49
4:F:3714:GLU:OE1	4:F:3714:GLU:N	2.46	0.49
4:F:3933:GLU:HG3	4:F:3934:THR:HG22	1.94	0.49
6:H:107:PHE:HE2	6:H:142:PHE:HA	1.78	0.49
6:H:129:LYS:HZ2	6:H:131:HIS:HB2	1.77	0.49
6:H:194:LEU:HG	6:H:195:LYS:HD2	1.95	0.49
4:A:859:LEU:HB3	4:A:867:ASN:OD1	2.13	0.49
4:A:2585:GLU:O	4:A:2778:GLY:HA3	2.12	0.49
4:A:3374:ILE:HB	4:A:3378:TYR:CZ	2.48	0.49
4:A:3585:PHE:CE2	4:A:3670:MET:HE3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:34:GLY:C	5:B:35:ARG:HD3	2.37	0.49
6:C:340:PHE:CE1	6:C:393:VAL:HG11	2.48	0.49
6:C:453:ALA:HA	6:C:529:PRO:HB3	1.94	0.49
4:S:109:ASN:HA	4:S:112:THR:HG23	1.95	0.49
4:S:865:GLN:NE2	4:S:3171:ALA:H	2.07	0.49
4:S:990:GLN:HG2	4:S:2780:LEU:C	2.38	0.49
4:S:1066:LEU:HA	4:S:1069:HIS:CD2	2.48	0.49
4:S:1131:ILE:HA	4:S:1134:LEU:HB2	1.95	0.49
4:S:1148:ALA:HB2	4:S:1164:CYS:HB2	1.93	0.49
4:S:1229:CYS:N	4:S:1259:LEU:HD21	2.28	0.49
4:S:1781:SER:O	4:S:1785:ILE:HG23	2.13	0.49
4:S:1878:ASP:HB2	4:S:1950:SER:OG	2.13	0.49
4:S:2121:ASP:HB2	4:S:2126:MET:SD	2.53	0.49
4:S:2971:GLN:O	4:S:2974:GLU:HG2	2.13	0.49
4:S:3050:LYS:HD3	4:S:3053:LEU:HD12	1.95	0.49
4:S:3144:PHE:HA	4:S:3147:LYS:HD3	1.95	0.49
4:S:3255:ALA:CB	4:S:3258:LEU:HD23	2.43	0.49
4:S:3469:LEU:HD13	4:S:3504:ALA:HB3	1.93	0.49
4:S:3835:PRO:HG2	4:S:3836:PRO:HD3	1.95	0.49
5:T:41:LEU:O	5:T:168:LEU:HA	2.12	0.49
5:T:99:PHE:HB3	5:T:145:GLU:HB3	1.95	0.49
5:T:122:PHE:HB3	5:T:131:PHE:CE1	2.47	0.49
3:Y:24:LEU:HB2	3:Y:39:SER:HB2	1.94	0.49
2:M:879:ARG:HD2	2:M:888:ILE:HD11	1.94	0.49
1:N:28:LEU:HD23	1:N:67:VAL:HG13	1.95	0.49
2:P:793:ALA:CB	2:P:814:ARG:HH11	2.25	0.49
3:Q:7:GLY:HA3	3:Q:28:PHE:CZ	2.47	0.49
4:F:174:VAL:HA	4:F:224:LEU:CB	2.43	0.49
4:F:479:ILE:O	4:F:483:VAL:HG22	2.13	0.49
4:F:802:THR:O	4:F:852:ARG:NH2	2.45	0.49
4:F:1082:PHE:HE2	4:F:1130:ALA:HA	1.78	0.49
4:F:1198:LEU:O	4:F:1202:ARG:NH2	2.46	0.49
4:F:1774:MET:HE3	4:F:1776:GLU:HB2	1.94	0.49
4:F:2581:LEU:HD23	4:F:2780:LEU:HB3	1.94	0.49
5:G:120:ASP:HA	5:G:123:LYS:HB3	1.94	0.49
5:G:203:MET:HE2	5:G:238:LYS:HG2	1.95	0.49
5:G:330:GLU:H	5:G:333:GLU:HB2	1.77	0.49
5:G:349:GLY:HA3	6:H:463:LEU:HD22	1.94	0.49
6:H:70:GLY:HA3	6:H:74:TYR:CD2	2.46	0.49
6:H:666:VAL:O	6:H:669:LYS:HG3	2.13	0.49
6:H:695:SER:O	6:H:699:GLU:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:151:GLU:HG2	4:A:152:LEU:N	2.27	0.49
4:A:322:GLN:HB3	4:A:326:MET:HE2	1.95	0.49
4:A:2328:ARG:NH1	4:A:2370:SER:O	2.44	0.49
5:B:307:THR:HG21	6:C:282:LYS:HE2	1.94	0.49
5:B:357:LYS:HE2	5:B:359:HIS:HE1	1.78	0.49
6:C:413:LYS:H	6:C:417:GLU:HG2	1.77	0.49
4:S:363:ILE:HG22	4:S:416:SER:OG	2.13	0.49
4:S:866:ILE:HD11	4:S:3168:TYR:CE2	2.47	0.49
4:S:921:ALA:HB3	4:S:927:LYS:HG3	1.94	0.49
4:S:1950:SER:OG	4:S:1951:VAL:N	2.45	0.49
4:S:3571:PHE:HA	4:S:3685:PRO:HD2	1.94	0.49
5:T:219:ASP:OD1	5:T:220:ILE:N	2.45	0.49
6:U:216:GLU:HB2	6:U:220:GLY:HA3	1.95	0.49
1:N:21:GLN:O	1:N:21:GLN:HG2	2.13	0.49
1:O:140:LYS:HA	1:O:143:HIS:HB2	1.94	0.49
2:P:707:ILE:HD12	5:G:493:LEU:HD13	1.95	0.49
2:P:841:LYS:HB3	2:P:894:VAL:HG11	1.95	0.49
3:Q:96:SER:O	3:Q:107:ARG:N	2.46	0.49
4:F:68:PHE:CD2	4:F:69:VAL:HG23	2.47	0.49
4:F:274:LEU:HD12	4:F:277:LEU:HB2	1.93	0.49
4:F:526:ASP:OD1	4:F:527:TYR:N	2.46	0.49
4:F:571:SER:HA	4:F:574:LYS:HE3	1.95	0.49
4:F:768:VAL:HA	4:F:771:ASN:OD1	2.13	0.49
4:F:773:LEU:HD23	4:F:776:TRP:CZ3	2.48	0.49
4:F:1101:PHE:CG	4:F:1163:LEU:HD13	2.48	0.49
4:F:1638:PRO:O	4:F:1642:LYS:HG3	2.12	0.49
4:F:1747:LEU:HD21	4:F:1778:PHE:HD1	1.78	0.49
4:F:2546:TYR:HB3	4:F:2842:ARG:NH2	2.28	0.49
4:F:2559:THR:HG23	4:F:2809:PHE:CZ	2.47	0.49
4:F:2887:PRO:HA	4:F:2890:ILE:HD12	1.95	0.49
5:G:38:LEU:HD11	5:G:167:MET:HB2	1.94	0.49
5:G:92:LYS:HD2	5:G:134:MET:O	2.12	0.49
6:H:21:SER:OG	6:H:101:GLY:O	2.24	0.49
6:H:59:PHE:HA	6:H:76:ASN:O	2.13	0.49
7:I:42:DA:H3'	7:I:43:DT:N3	2.27	0.49
4:A:1605:PHE:HE2	4:A:1654:GLN:HB3	1.77	0.49
4:A:2528:GLU:HA	4:A:2531:LEU:O	2.12	0.49
5:B:363:ARG:HA	6:C:358:GLY:O	2.11	0.49
6:C:405:VAL:HG23	6:C:424:LEU:H	1.77	0.49
4:S:326:MET:O	4:S:329:LYS:HG2	2.13	0.49
4:S:866:ILE:O	4:S:869:ASN:ND2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1281:VAL:HG21	4:S:1344:PHE:HZ	1.78	0.49
4:S:2507:ILE:HG22	4:S:2550:ILE:HG13	1.94	0.49
4:S:2508:GLN:OE1	4:S:2549:LYS:HB2	2.12	0.49
4:S:3080:LEU:O	4:S:3109:SER:OG	2.22	0.49
4:S:3420:CYS:HB2	4:S:3443:PRO:HB3	1.95	0.49
4:S:3681:LYS:HB2	4:S:3687:MET:HG2	1.94	0.49
4:S:3897:PHE:O	4:S:3901:ARG:HG2	2.13	0.49
5:T:402:PRO:HB2	7:V:33:DA:OP2	2.12	0.49
6:U:59:PHE:HB2	6:U:77:ILE:HG13	1.95	0.49
6:U:211:VAL:O	6:U:215:LEU:N	2.42	0.49
6:U:614:ASN:HA	6:U:617:ILE:HB	1.94	0.49
1:K:10:LEU:HD22	1:K:88:PHE:H	1.78	0.48
1:K:133:THR:O	1:K:135:ALA:N	2.46	0.48
1:K:134:ILE:O	1:L:136:GLU:HB3	2.13	0.48
2:M:813:PHE:CZ	2:M:903:LEU:HB2	2.48	0.48
3:Q:1:MET:HG2	3:Q:3:GLU:H	1.77	0.48
3:Q:137:ARG:HG2	3:R:204:ILE:HG13	1.95	0.48
3:Q:146:LEU:HD22	3:R:147:GLN:HA	1.95	0.48
4:F:782:ARG:HA	4:F:785:MET:HG2	1.95	0.48
4:F:802:THR:H	4:F:852:ARG:HH12	1.60	0.48
4:F:3879:PRO:HB2	4:F:3882:LEU:HD22	1.94	0.48
4:F:3882:LEU:HA	4:F:3885:ARG:HE	1.78	0.48
5:G:94:LYS:NZ	5:G:105:LEU:HA	2.28	0.48
6:H:86:PRO:HA	6:H:90:LEU:HD12	1.94	0.48
4:A:1144:SER:HA	4:A:1149:LYS:NZ	2.28	0.48
4:A:1149:LYS:HB2	4:A:1151:ARG:NH2	2.28	0.48
4:A:2880:CYS:SG	4:A:2889:GLY:HA3	2.53	0.48
4:A:2931:ARG:HD2	4:A:2993:PHE:HE1	1.76	0.48
4:A:4013:TRP:HA	4:A:4016:PHE:HB3	1.95	0.48
5:B:32:TYR:O	5:B:253:LYS:HD2	2.13	0.48
5:B:40:PHE:CE2	5:B:83:LEU:HB3	2.47	0.48
5:B:303:PHE:CD1	6:C:292:GLU:HB3	2.48	0.48
5:B:446:MET:SD	5:B:446:MET:N	2.86	0.48
6:C:397:TYR:HB3	6:C:401:ALA:HB3	1.94	0.48
4:S:468:LEU:HD13	4:S:475:LEU:HA	1.94	0.48
4:S:718:MET:HE2	4:S:751:ALA:HA	1.95	0.48
4:S:853:ILE:HG12	4:S:3104:GLN:HG2	1.95	0.48
4:S:1115:HIS:HD1	4:S:1183:CYS:HB2	1.78	0.48
4:S:1237:ALA:HA	4:S:1240:THR:OG1	2.12	0.48
4:S:1288:SER:O	4:S:1292:LYS:CB	2.52	0.48
4:S:1743:MET:HA	4:S:1746:PHE:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1795:VAL:O	4:S:1799:GLU:HG2	2.13	0.48
4:S:2148:LYS:HE3	4:S:2152:ASN:HD21	1.77	0.48
4:S:2362:VAL:O	4:S:2366:LYS:HG2	2.13	0.48
4:S:2485:ARG:HA	4:S:2499:PHE:CG	2.48	0.48
4:S:3121:LEU:HB3	4:S:3124:SER:HB2	1.95	0.48
4:S:3318:LYS:HE3	4:S:3322:ALA:HB1	1.93	0.48
4:S:3764:VAL:HG12	4:S:3768:PHE:CE1	2.48	0.48
4:S:4083:GLY:HA2	4:S:4114:PRO:HG2	1.94	0.48
5:T:75:ILE:HD13	6:U:316:TYR:CZ	2.48	0.48
5:T:260:LYS:O	5:T:345:LEU:HB2	2.12	0.48
5:T:443:LYS:O	6:U:267:ILE:HB	2.13	0.48
3:X:213:ASN:ND2	3:Y:151:ARG:HG3	2.27	0.48
1:L:176:LEU:HD23	1:L:179:ARG:NH1	2.28	0.48
2:P:722:LYS:HE2	2:P:742:PHE:C	2.38	0.48
2:P:761:TYR:CZ	2:P:781:ILE:HG23	2.48	0.48
2:P:837:ARG:HH21	2:P:891:GLU:HB3	1.77	0.48
3:Q:14:ALA:HB3	3:Q:27:VAL:HG23	1.95	0.48
3:R:41:LEU:HD11	3:R:210:PHE:HB2	1.94	0.48
4:F:24:ARG:HG3	4:F:25:CYS:N	2.27	0.48
4:F:35:ILE:HD12	4:F:81:CYS:HA	1.94	0.48
4:F:780:ILE:HB	4:F:785:MET:HE2	1.95	0.48
4:F:1507:CYS:HA	4:F:1510:LEU:HD12	1.94	0.48
4:F:2522:ARG:HA	4:F:2561:PHE:CE2	2.48	0.48
4:F:2534:ASN:HB3	4:F:2537:ASP:CG	2.37	0.48
4:F:2571:ASP:HA	4:F:2574:ASN:OD1	2.13	0.48
4:F:3052:LEU:HA	4:F:3056:GLU:HB3	1.95	0.48
4:F:3287:ARG:HA	4:F:3289:ARG:CZ	2.43	0.48
4:F:3387:GLU:O	4:F:3391:ALA:HB2	2.14	0.48
4:F:3443:PRO:HA	4:F:3446:VAL:HG22	1.94	0.48
4:F:3886:ALA:HA	4:F:3889:ARG:HG2	1.95	0.48
5:G:56:GLU:HG3	5:G:57:LEU:O	2.12	0.48
5:G:364:PRO:HG3	6:H:358:GLY:N	2.29	0.48
5:G:366:LEU:O	5:G:434:LEU:N	2.34	0.48
5:G:462:MET:HB3	6:H:380:LEU:HD13	1.95	0.48
7:I:21:DA:N6	8:J:33:DA:N7	2.52	0.48
4:A:351:ASN:OD1	4:A:352:VAL:N	2.46	0.48
4:A:797:ASP:HB3	4:A:801:LYS:HB3	1.94	0.48
4:A:1365:ASN:CA	4:A:1369:MET:HE3	2.41	0.48
4:A:2584:CYS:SG	4:A:2780:LEU:N	2.66	0.48
4:A:3104:GLN:O	4:A:3108:GLN:HG2	2.13	0.48
4:A:3389:VAL:HG13	4:A:3413:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3530:VAL:HG22	4:A:3702:PRO:HB3	1.95	0.48
5:B:75:ILE:HD13	5:B:112:GLY:HA2	1.94	0.48
5:B:463:LYS:HG3	6:C:383:ALA:HB1	1.94	0.48
6:C:248:PRO:HA	6:C:261:ILE:HG13	1.94	0.48
6:C:314:PHE:HD1	6:C:323:PHE:HB3	1.77	0.48
10:E:35:DT:H2"	10:E:36:DA:C8	2.48	0.48
4:S:79:ARG:HD2	4:S:122:LYS:HG3	1.95	0.48
4:S:414:LEU:HD21	4:S:442:GLN:HG2	1.94	0.48
4:S:443:ILE:HD11	4:S:461:ILE:HD11	1.95	0.48
4:S:635:PRO:HD3	4:S:672:ILE:HG12	1.94	0.48
4:S:1445:ARG:NH1	4:S:1507:CYS:SG	2.85	0.48
4:S:1580:LEU:HD13	4:S:1625:HIS:CG	2.49	0.48
4:S:1601:LEU:HA	4:S:1655:ILE:HD11	1.95	0.48
4:S:2192:THR:HG22	4:S:2725:LEU:HD13	1.95	0.48
4:S:2307:MET:O	4:S:2316:TYR:HB2	2.13	0.48
4:S:2367:VAL:O	4:S:2371:PHE:N	2.31	0.48
4:S:3166:ASN:OD1	4:S:3186:ARG:NH2	2.43	0.48
4:S:3265:GLU:O	4:S:3268:THR:OG1	2.26	0.48
4:S:3531:TYR:HE1	4:S:3705:TYR:HD2	1.60	0.48
5:T:325:ARG:NH1	6:U:501:PRO:HD3	2.24	0.48
5:T:459:VAL:HG12	5:T:462:MET:HE3	1.95	0.48
6:U:312:GLN:HG2	6:U:324:SER:HA	1.94	0.48
1:K:62:GLU:HB3	3:R:111:GLU:CB	2.43	0.48
1:K:88:PHE:HB2	1:K:95:PHE:CD1	2.49	0.48
1:N:62:GLU:OE1	3:Q:92:GLU:N	2.45	0.48
2:P:792:MET:HE3	2:P:792:MET:HB3	1.63	0.48
3:Q:166:ASP:OD2	3:R:176:ARG:NH2	2.45	0.48
4:F:348:ILE:O	4:F:349:ILE:HG13	2.14	0.48
4:F:576:VAL:HA	4:F:579:LEU:HD23	1.94	0.48
4:F:730:LEU:HD13	4:F:755:ALA:HB2	1.96	0.48
4:F:2097:LEU:HD13	4:F:2149:LEU:HB3	1.93	0.48
4:F:2209:GLU:HA	4:F:2248:CYS:HB2	1.96	0.48
4:F:2448:PRO:O	4:F:2452:ARG:HG3	2.13	0.48
4:F:3075:LYS:O	4:F:3078:LEU:HB2	2.13	0.48
4:F:3131:SER:O	4:F:3135:LEU:HG	2.13	0.48
4:F:3141:PHE:CZ	4:F:3192:LYS:HB2	2.43	0.48
4:F:3239:LYS:O	4:F:3242:MET:HB2	2.12	0.48
4:F:3733:ARG:HB3	4:F:3754:GLY:H	1.78	0.48
4:F:3835:PRO:HA	4:F:3839:TYR:HB2	1.95	0.48
5:G:81:ASP:N	5:G:110:ASN:OD1	2.46	0.48
5:G:347:LEU:O	5:G:348:MET:HE2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:44:ARG:HH11	6:H:234:LEU:HA	1.78	0.48
6:H:353:ARG:HD3	6:H:356:PHE:CE2	2.49	0.48
6:H:398:ASP:OD1	6:H:401:ALA:N	2.46	0.48
6:H:655:PHE:HA	6:H:658:PHE:CD2	2.48	0.48
7:I:32:DA:N6	8:J:25:DT:O4	2.46	0.48
4:A:59:PHE:CE2	4:A:66:LEU:HD11	2.48	0.48
4:A:782:ARG:HA	4:A:785:MET:SD	2.54	0.48
4:A:867:ASN:HD22	4:A:3133:GLN:NE2	2.11	0.48
4:A:1095:LEU:HA	4:A:1098:GLN:OE1	2.14	0.48
4:A:2575:PRO:HB3	4:A:2784:GLN:O	2.12	0.48
4:A:2884:LEU:HB3	4:A:3124:SER:HB2	1.94	0.48
4:A:3066:ASP:C	4:A:3070:HIS:HD1	2.17	0.48
6:C:54:ILE:HD11	6:C:90:LEU:HD21	1.96	0.48
4:S:172:GLU:HA	4:S:174:VAL:HG22	1.96	0.48
4:S:296:VAL:HG13	4:S:297:LEU:HD12	1.95	0.48
4:S:527:TYR:HB3	4:S:531:PHE:CD1	2.49	0.48
4:S:1007:VAL:O	4:S:1010:LEU:HB3	2.14	0.48
4:S:1685:ASP:HB3	4:S:1688:LEU:HG	1.95	0.48
4:S:2193:ILE:HG22	4:S:2245:TRP:HH2	1.78	0.48
4:S:2295:GLN:NE2	4:S:2298:GLU:OE1	2.46	0.48
4:S:2855:VAL:O	4:S:2859:GLN:HG3	2.14	0.48
4:S:3240:MET:HE1	4:S:3279:SER:CB	2.44	0.48
1:K:38:ASP:OD1	1:K:41:SER:N	2.44	0.48
1:L:52:ILE:O	1:L:55:GLU:HB2	2.14	0.48
2:M:872:VAL:HG13	2:M:888:ILE:HG21	1.95	0.48
1:N:44:THR:HG22	1:N:45:GLY:N	2.28	0.48
1:O:88:PHE:CE2	1:O:90:LYS:HG2	2.48	0.48
4:F:173:LYS:O	4:F:224:LEU:HB2	2.14	0.48
4:F:569:VAL:HG11	4:F:645:TRP:CD1	2.49	0.48
4:F:898:PHE:H	4:F:902:LYS:HD3	1.77	0.48
4:F:968:VAL:O	4:F:972:LEU:HD23	2.13	0.48
4:F:1220:LEU:HB2	4:F:1285:GLU:HB2	1.95	0.48
4:F:1360:LYS:HE2	4:F:1366:THR:HG21	1.95	0.48
4:F:1380:ALA:HA	4:F:1384:PHE:HA	1.95	0.48
4:F:1444:ASP:N	4:F:1447:ARG:HH21	2.12	0.48
4:F:2138:VAL:O	4:F:2143:ARG:HG3	2.13	0.48
4:F:2166:SER:OG	4:F:2167:PRO:HD3	2.12	0.48
4:F:2479:TRP:O	4:F:2483:ASN:ND2	2.34	0.48
4:F:2935:GLU:OE2	4:F:2938:VAL:N	2.35	0.48
5:G:59:PRO:HG2	5:G:171:ASN:ND2	2.19	0.48
5:G:67:ILE:HB	5:G:71:TYR:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:279:VAL:HB	6:H:284:LEU:HA	1.95	0.48
6:H:346:CYS:O	6:H:390:VAL:HG22	2.14	0.48
4:A:1663:THR:HB	4:A:1665:HIS:HE1	1.78	0.48
4:A:3152:SER:HB2	4:A:3197:LEU:HB2	1.95	0.48
4:A:3771:MET:O	4:A:3775:LEU:HB2	2.13	0.48
4:A:3951:GLN:HG2	4:A:3952:PHE:N	2.27	0.48
6:C:20:MET:HE3	6:C:140:SER:HB2	1.96	0.48
4:S:111:CYS:HA	4:S:114:VAL:HB	1.95	0.48
4:S:1294:VAL:HG12	4:S:1365:ASN:ND2	2.28	0.48
4:S:1538:LEU:HD13	4:S:1553:PHE:CZ	2.49	0.48
4:S:1588:ASP:OD1	4:S:1588:ASP:N	2.44	0.48
4:S:3254:LEU:HG	4:S:3255:ALA:H	1.78	0.48
4:S:3874:ARG:HB3	4:S:4127:TRP:HA	1.96	0.48
5:T:254:ARG:HD2	5:T:255:ALA:N	2.29	0.48
5:T:259:LEU:HD11	5:T:402:PRO:HA	1.95	0.48
6:U:11:VAL:HG13	6:U:55:ALA:HB3	1.95	0.48
6:U:360:GLN:CD	6:U:404:GLN:HE22	2.20	0.48
3:X:147:GLN:HG2	3:Y:209:PRO:O	2.13	0.48
2:M:777:VAL:O	2:M:781:ILE:HG13	2.13	0.48
1:N:140:LYS:O	1:N:144:LEU:HD13	2.14	0.48
4:F:293:LEU:O	4:F:296:VAL:HG12	2.13	0.48
4:F:418:ALA:HB3	4:F:463:LYS:HZ3	1.78	0.48
4:F:1368:LEU:O	4:F:1372:LEU:HG	2.13	0.48
4:F:1471:GLN:HB2	4:F:1476:HIS:HA	1.95	0.48
4:F:2467:THR:N	4:F:2470:ARG:HH21	2.11	0.48
4:F:2753:ARG:O	4:F:2757:ILE:HG12	2.14	0.48
4:F:2897:LEU:HA	4:F:2900:LEU:HD12	1.95	0.48
4:F:3360:LEU:O	4:F:3363:SER:OG	2.31	0.48
4:F:3867:THR:HB	4:F:4117:LEU:O	2.12	0.48
5:G:206:LYS:HE3	5:G:207:LYS:NZ	2.29	0.48
6:H:406:GLY:HA2	6:H:424:LEU:N	2.29	0.48
7:I:21:DA:N6	8:J:34:DT:C4	2.81	0.48
4:A:23:ASP:HA	4:A:30:ALA:HB1	1.94	0.48
4:A:753:GLN:NE2	4:A:792:ILE:HG12	2.28	0.48
4:A:978:GLN:HA	4:A:981:ARG:CZ	2.43	0.48
4:A:2565:MET:O	4:A:2568:MET:HG3	2.13	0.48
4:A:3562:LEU:HD13	4:A:3799:ARG:HB2	1.95	0.48
4:A:4019:LYS:HG3	4:A:4023:LYS:HD3	1.95	0.48
5:B:99:PHE:HB3	5:B:145:GLU:HB3	1.95	0.48
6:C:407:VAL:O	6:C:421:TYR:HA	2.13	0.48
9:D:30:DA:H1'	9:D:31:DA:C5	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:115:TYR:HD1	4:S:130:LEU:HD21	1.79	0.48
4:S:1009:LEU:O	4:S:1013:ILE:HG12	2.13	0.48
4:S:1604:SER:HA	4:S:1607:GLU:HB3	1.94	0.48
4:S:1686:LEU:HA	4:S:1689:LYS:HD2	1.95	0.48
4:S:2231:PHE:O	4:S:2235:LEU:HG	2.14	0.48
4:S:2467:THR:O	4:S:2471:GLU:CB	2.62	0.48
4:S:3304:VAL:HG23	4:S:3356:ALA:HA	1.96	0.48
4:S:3612:ARG:NH2	4:S:3798:SER:HB3	2.29	0.48
5:T:382:PHE:CE2	5:T:431:GLY:HA2	2.49	0.48
5:T:510:LYS:NZ	6:U:343:LEU:O	2.45	0.48
6:U:360:GLN:NE2	7:V:25:DA:O5'	2.46	0.48
1:L:66:TYR:HB2	3:Y:114:GLY:HA2	1.96	0.48
1:L:73:ALA:HB1	1:L:97:PHE:CZ	2.49	0.48
3:Q:131:VAL:HG23	3:Q:135:LEU:HB2	1.96	0.48
3:Q:147:GLN:NE2	3:R:213:ASN:O	2.46	0.48
3:Q:176:ARG:HH22	3:R:163:GLU:CD	2.21	0.48
4:F:835:LYS:HD3	4:F:838:LYS:HD2	1.96	0.48
4:F:1047:GLN:HA	4:F:1050:GLU:HG2	1.95	0.48
4:F:1292:LYS:HD3	4:F:1296:PHE:CE2	2.49	0.48
4:F:1358:LEU:HA	4:F:1361:LYS:HB2	1.95	0.48
4:F:1465:HIS:HB3	4:F:1470:SER:OG	2.14	0.48
4:F:1785:ILE:HA	4:F:1788:ARG:HB2	1.96	0.48
4:F:1948:ALA:O	4:F:1952:ILE:HG12	2.13	0.48
4:F:2492:ASP:OD2	4:F:2494:ASP:HB2	2.14	0.48
4:F:2534:ASN:ND2	4:F:2537:ASP:OD1	2.46	0.48
4:F:2732:PHE:HD1	4:F:2734:ARG:NH1	2.12	0.48
4:F:3226:ASP:OD1	4:F:3227:ILE:N	2.47	0.48
4:F:3506:LEU:HD12	4:F:3515:GLN:HG3	1.96	0.48
4:F:3585:PHE:CZ	4:F:3667:LEU:HB2	2.49	0.48
4:F:3733:ARG:HH22	4:F:3756:GLU:N	2.12	0.48
5:G:469:LEU:HD13	5:G:518:LEU:HB2	1.94	0.48
6:H:188:HIS:HA	6:H:232:ARG:HG3	1.96	0.48
6:H:488:GLN:HA	6:H:491:PHE:CD2	2.49	0.48
6:H:598:PHE:O	6:H:602:VAL:HG13	2.13	0.48
7:I:39:DA:H2	8:J:18:DA:N7	2.12	0.48
4:A:54:GLN:OE1	4:A:98:GLN:NE2	2.46	0.48
4:A:524:TYR:CD2	4:A:629:PHE:HB2	2.48	0.48
4:A:534:LEU:O	4:A:561:ASN:ND2	2.41	0.48
4:A:767:GLU:HB2	4:A:846:ILE:HB	1.96	0.48
4:A:898:PHE:CE1	4:A:2566:THR:HG22	2.49	0.48
4:A:1104:LEU:HD12	4:A:1134:LEU:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1717:LEU:HD22	4:A:1746:PHE:CE2	2.49	0.48
5:B:270:SER:HB3	5:B:374:LEU:HB2	1.95	0.48
5:B:297:LYS:HD3	5:B:299:LYS:NZ	2.29	0.48
5:B:452:ILE:HD12	6:C:378:SER:HB3	1.96	0.48
5:B:492:ALA:O	5:B:496:ASP:N	2.46	0.48
6:C:47:PHE:CD2	6:C:491:PHE:HB3	2.49	0.48
6:C:244:SER:HA	9:D:23:DT:H2''	1.96	0.48
4:S:74:ASN:HD21	4:S:122:LYS:HB2	1.78	0.48
4:S:524:TYR:HB2	4:S:527:TYR:HB2	1.94	0.48
4:S:904:VAL:H	4:S:2819:GLU:HG3	1.78	0.48
4:S:966:PHE:HB2	4:S:967:PRO:HD3	1.96	0.48
4:S:1563:PHE:HB3	4:S:1566:THR:OG1	2.14	0.48
4:S:2254:ARG:CZ	4:S:2294:ILE:HG12	2.43	0.48
4:S:2260:PHE:HB3	4:S:2273:GLY:CA	2.42	0.48
4:S:3145:ILE:HD12	4:S:3192:LYS:HG3	1.95	0.48
4:S:3577:GLN:NE2	4:S:3623:PRO:HD2	2.29	0.48
1:K:88:PHE:CE1	1:K:113:LEU:HD12	2.49	0.48
1:N:98:GLU:HB3	1:N:107:ARG:HA	1.95	0.48
1:N:166:VAL:HA	1:N:169:LYS:HG2	1.96	0.48
1:O:70:LEU:HD12	1:O:109:GLY:HA2	1.95	0.48
2:P:790:GLU:O	2:P:793:ALA:HB3	2.14	0.48
4:F:933:LEU:HD13	4:F:2793:PRO:HG2	1.96	0.48
4:F:1173:LEU:HB2	4:F:1191:PHE:CE1	2.48	0.48
4:F:1179:PRO:HA	4:F:1259:LEU:HD13	1.96	0.48
4:F:1365:ASN:OD1	4:F:1370:ARG:NH1	2.47	0.48
4:F:1406:LEU:O	4:F:1412:LYS:HB3	2.13	0.48
4:F:1831:CYS:SG	4:F:1836:LEU:HB2	2.52	0.48
4:F:1935:GLU:O	4:F:1939:LEU:HG	2.14	0.48
4:F:2181:GLY:HA3	4:F:2184:TYR:HD2	1.78	0.48
4:F:3254:LEU:HD23	4:F:3287:ARG:CZ	2.44	0.48
4:F:3619:ASP:N	4:F:3619:ASP:OD1	2.47	0.48
4:F:3767:LEU:HD21	4:F:4001:THR:HG21	1.95	0.48
4:F:3887:PHE:HB3	4:F:3897:PHE:CZ	2.49	0.48
5:G:338:LYS:HG2	5:G:406:ILE:HA	1.94	0.48
5:G:414:VAL:O	5:G:432:PHE:HA	2.14	0.48
6:H:188:HIS:CE1	6:H:232:ARG:H	2.31	0.48
6:H:250:ARG:NH1	6:H:260:ARG:HE	2.10	0.48
6:H:675:TRP:HD1	6:H:679:VAL:HG23	1.79	0.48
4:A:387:GLU:HB3	4:A:391:ARG:HH12	1.79	0.48
4:A:1894:SER:OG	4:A:1896:ILE:O	2.32	0.48
4:A:3339:ASN:HD21	4:A:3422:GLN:CD	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3378:TYR:HA	4:A:3419:PHE:HZ	1.78	0.48
4:A:4100:GLU:O	4:A:4104:VAL:HG23	2.14	0.48
6:C:342:VAL:HG12	6:C:393:VAL:HA	1.94	0.48
4:S:438:LEU:O	4:S:442:GLN:HB2	2.13	0.48
4:S:532:ARG:O	4:S:536:SER:OG	2.29	0.48
4:S:1157:PHE:CZ	4:S:1167:ASP:HB3	2.48	0.48
4:S:1560:TYR:HA	4:S:1567:ILE:HD12	1.95	0.48
4:S:2214:ARG:HG2	4:S:2218:PHE:CZ	2.49	0.48
4:S:2335:ASN:OD1	4:S:2336:ILE:N	2.46	0.48
4:S:3327:ASN:HA	4:S:3330:LEU:HB3	1.96	0.48
4:S:3908:HIS:HD2	4:S:3928:PHE:HE1	1.61	0.48
6:U:40:MET:HE3	6:U:43:GLN:NE2	2.28	0.48
6:U:314:PHE:O	6:U:320:ILE:HA	2.14	0.48
1:K:57:ASP:HB2	3:R:64:ARG:HB2	1.95	0.48
1:K:173:GLU:HB2	1:L:172:LEU:HD21	1.96	0.48
2:M:713:ILE:HG13	2:M:720:VAL:HG21	1.96	0.48
2:M:793:ALA:O	2:M:814:ARG:HB3	2.14	0.48
2:M:876:LYS:O	2:M:880:ARG:HG2	2.14	0.48
1:O:10:LEU:HD21	1:O:88:PHE:H	1.79	0.48
4:F:31:GLY:O	4:F:34:LEU:HB2	2.14	0.48
4:F:73:LEU:H	4:F:82:ARG:NH2	2.12	0.48
4:F:967:PRO:HA	4:F:970:LEU:HD12	1.95	0.48
4:F:1357:LYS:HD2	4:F:1410:PRO:HG3	1.95	0.48
4:F:1687:HIS:O	4:F:1745:LYS:NZ	2.47	0.48
4:F:1863:PHE:HA	4:F:1866:GLN:CD	2.39	0.48
4:F:1881:TYR:CD1	4:F:1881:TYR:C	2.91	0.48
4:F:1881:TYR:CD1	4:F:1951:VAL:HA	2.49	0.48
4:F:2527:HIS:CE1	4:F:2529:THR:H	2.32	0.48
4:F:3526:PRO:HB3	4:F:3563:ASP:H	1.79	0.48
5:G:73:SER:HB3	5:G:245:LYS:HB2	1.96	0.48
5:G:75:ILE:CG1	5:G:111:PRO:HB2	2.44	0.48
4:A:545:LEU:HB2	4:A:557:SER:HA	1.96	0.48
4:A:1195:VAL:HG11	4:A:1204:PRO:HA	1.96	0.48
4:A:2255:LEU:HA	4:A:2258:GLU:HG2	1.95	0.48
4:A:2891:ARG:O	4:A:2895:GLU:HG2	2.14	0.48
4:A:3360:LEU:HA	4:A:3363:SER:HB3	1.96	0.48
4:A:4053:GLY:HA2	4:A:4100:GLU:HB3	1.95	0.48
5:B:416:GLN:OE1	5:B:433:GLN:HB3	2.13	0.48
6:C:134:ILE:HB	6:C:163:PHE:HA	1.95	0.48
9:D:39:DA:H2"	9:D:40:DT:C6	2.48	0.48
4:S:198:ARG:HH22	5:T:312:LEU:N	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:306:VAL:HA	4:S:309:LYS:HG3	1.95	0.48
4:S:532:ARG:HE	4:S:636:GLU:HG3	1.77	0.48
4:S:627:VAL:HG11	4:S:665:GLY:HA2	1.96	0.48
4:S:1030:GLY:HA2	4:S:1126:GLN:HG3	1.96	0.48
4:S:1697:PRO:HB3	4:S:1752:LEU:HD23	1.95	0.48
4:S:3110:PHE:CD2	4:S:3135:LEU:HD11	2.46	0.48
4:S:3586:LYS:HA	4:S:3590:ASN:H	1.79	0.48
4:S:3733:ARG:NH2	4:S:4015:ASN:HD21	2.12	0.48
4:S:3944:HIS:ND1	4:S:3948:SER:OG	2.37	0.48
5:T:377:GLY:O	5:T:380:THR:OG1	2.27	0.48
6:U:487:PHE:CE1	6:U:490:LEU:HD13	2.48	0.48
1:K:34:ILE:HG21	1:K:111:PHE:HB3	1.95	0.48
2:M:841:LYS:HB3	2:M:894:VAL:HG11	1.95	0.48
1:O:179:ARG:HB3	2:P:781:ILE:HD12	1.96	0.48
2:P:730:PHE:O	2:P:733:LYS:NZ	2.32	0.48
3:Q:107:ARG:HD2	3:Q:109:ARG:HH12	1.78	0.48
4:F:63:PHE:HA	4:F:66:LEU:HB2	1.95	0.48
4:F:114:VAL:HG13	4:F:119:ARG:HH21	1.78	0.48
4:F:146:GLU:HB3	4:F:149:ILE:HD13	1.95	0.48
4:F:175:TYR:CA	4:F:225:LYS:HG2	2.44	0.48
4:F:431:TYR:O	4:F:435:LEU:N	2.38	0.48
4:F:530:LEU:O	4:F:534:LEU:HG	2.13	0.48
4:F:741:ILE:HA	4:F:748:TYR:OH	2.14	0.48
4:F:1178:ARG:HB2	4:F:1184:ARG:HB2	1.94	0.48
4:F:1210:ASP:HA	4:F:1213:LYS:HE3	1.94	0.48
4:F:2365:ASN:OD1	4:F:2369:LYS:HG3	2.14	0.48
4:F:3176:MET:CE	4:F:3245:SER:HB3	2.43	0.48
4:F:3182:ILE:O	4:F:3185:ASN:HB2	2.14	0.48
4:F:3916:TRP:HD1	4:F:3960:PRO:HB2	1.78	0.48
5:G:59:PRO:HA	5:G:62:MET:HG3	1.95	0.48
4:A:728:SER:OG	4:A:729:CYS:N	2.47	0.48
4:A:926:THR:HG22	4:A:2800:ARG:NH1	2.29	0.48
4:A:3351:ILE:HG13	4:A:3351:ILE:O	2.14	0.48
4:A:3875:GLU:HA	4:A:3878:VAL:HG12	1.96	0.48
5:B:319:SER:O	6:C:277:THR:N	2.47	0.48
4:S:650:SER:O	4:S:654:ILE:HG13	2.14	0.48
4:S:852:ARG:HA	4:S:855:VAL:HB	1.96	0.48
4:S:889:GLU:H	4:S:891:ARG:HH21	1.62	0.48
4:S:1122:GLY:C	4:S:1124:ILE:H	2.22	0.48
4:S:1484:LEU:HD13	4:S:1531:LEU:HD13	1.94	0.48
4:S:1613:HIS:HA	4:S:1616:LEU:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2511:ILE:HD12	4:S:2550:ILE:HD12	1.96	0.48
4:S:2782:ASP:O	4:S:2783:ILE:HD13	2.14	0.48
4:S:2974:GLU:O	4:S:2978:LYS:HB2	2.14	0.48
4:S:3091:LEU:HD21	4:S:3145:ILE:HG13	1.96	0.48
4:S:4012:ASP:H	4:S:4038:TRP:CD1	2.32	0.48
4:S:4055:ASN:O	4:S:4059:ILE:N	2.37	0.48
6:U:168:SER:H	6:U:192:PHE:HD2	1.62	0.48
6:U:618:ASN:HA	6:U:621:GLU:HG3	1.95	0.48
1:K:141:ASN:O	1:K:142:GLU:C	2.57	0.48
1:L:5:ILE:HG12	1:L:21:GLN:HB2	1.96	0.48
2:P:848:HIS:CE1	2:P:898:ILE:HD13	2.47	0.48
3:Q:153:LEU:HD22	3:R:157:LEU:HG	1.96	0.48
3:Q:161:ASP:HB2	3:R:160:LYS:NZ	2.29	0.48
4:F:173:LYS:HA	4:F:223:CYS:CB	2.44	0.48
4:F:733:LEU:O	4:F:736:LEU:HD23	2.14	0.48
4:F:859:LEU:HA	4:F:862:LEU:HG	1.94	0.48
4:F:1360:LYS:O	4:F:1363:LEU:HB2	2.14	0.48
4:F:1632:TRP:HA	4:F:1637:SER:HB3	1.94	0.48
4:F:3574:ALA:CB	4:F:3685:PRO:HG3	2.40	0.48
5:G:290:ARG:N	6:H:309:ASP:O	2.40	0.48
5:G:410:PHE:HB3	5:G:437:LEU:HB2	1.96	0.48
6:H:44:ARG:NH1	6:H:233:LYS:O	2.47	0.48
6:H:83:LEU:HD13	6:H:121:GLU:HG2	1.95	0.48
4:A:1009:LEU:HD22	4:A:1036:PHE:CD2	2.49	0.48
4:A:1149:LYS:O	4:A:1163:LEU:HB2	2.14	0.48
4:A:1177:GLY:O	4:A:1228:GLY:HA3	2.14	0.48
4:A:2473:MET:HE3	4:A:2474:TYR:CE1	2.49	0.48
4:A:3101:TYR:O	4:A:3105:ASN:ND2	2.47	0.48
4:A:3720:ALA:HB3	4:A:3742:GLY:HA2	1.96	0.48
5:B:173:ASP:OD1	5:B:173:ASP:N	2.45	0.48
4:S:480:SER:HB3	4:S:567:GLU:HG3	1.96	0.48
4:S:1331:ASN:HA	4:S:1334:LYS:HB2	1.96	0.48
4:S:1749:ALA:O	4:S:1753:SER:N	2.41	0.48
4:S:2158:ARG:O	4:S:2199:LEU:HD12	2.14	0.48
4:S:2164:TRP:HE3	4:S:2167:PRO:HB2	1.78	0.48
4:S:3334:TYR:HD1	4:S:3359:ILE:HD11	1.79	0.48
4:S:3950:THR:N	4:S:4068:HIS:H	2.12	0.48
6:U:242:ARG:HB2	7:V:22:DA:H5'	1.95	0.48
6:U:335:SER:H	6:U:403:PRO:HD3	1.79	0.48
6:U:687:THR:HG21	6:U:698:ALA:C	2.39	0.48
7:V:27:DC:H3'	7:V:28:DT:H2'	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V:45:DG:H2''	8:W:13:DA:C5	2.49	0.48
3:X:128:PRO:HB3	3:Y:125:LEU:HD11	1.96	0.48
1:K:61:MET:HB3	3:R:114:GLY:N	2.28	0.47
1:K:98:GLU:HG2	1:K:107:ARG:HD3	1.96	0.47
2:M:824:ALA:HB3	2:M:831:THR:HG21	1.95	0.47
1:N:39:GLY:C	1:N:123:ILE:HD13	2.39	0.47
2:P:866:GLY:HA3	2:P:871:ARG:NH1	2.29	0.47
3:R:36:LEU:HD21	3:R:106:LEU:HD13	1.95	0.47
4:F:115:TYR:OH	4:F:159:GLU:OE1	2.25	0.47
4:F:225:LYS:NZ	4:F:274:LEU:HD23	2.28	0.47
4:F:328:ALA:HA	4:F:371:GLY:HA3	1.95	0.47
4:F:332:GLU:HB2	4:F:335:LYS:HD2	1.96	0.47
4:F:364:ARG:HE	4:F:364:ARG:C	2.22	0.47
4:F:367:GLY:HA3	4:F:416:SER:HA	1.96	0.47
4:F:911:LEU:HB3	4:F:912:PRO:HD3	1.96	0.47
4:F:1119:LYS:HG3	4:F:1124:ILE:HG21	1.96	0.47
4:F:1611:GLN:HE21	4:F:1613:HIS:HB3	1.78	0.47
4:F:1958:GLU:HG2	4:F:1959:LEU:HD23	1.96	0.47
4:F:2154:GLU:HA	4:F:2157:PHE:CE1	2.49	0.47
4:F:2865:HIS:O	4:F:2869:LEU:N	2.46	0.47
4:F:3330:LEU:HD23	4:F:3384:HIS:CE1	2.49	0.47
4:F:3382:PHE:HB2	4:F:3419:PHE:CE2	2.49	0.47
4:F:3389:VAL:HG11	4:F:3449:LYS:HZ2	1.79	0.47
4:F:3554:PHE:O	4:F:3558:ILE:HG12	2.14	0.47
5:G:173:ASP:OD1	5:G:174:ASN:N	2.46	0.47
5:G:305:THR:OG1	6:H:287:GLU:O	2.31	0.47
6:H:410:PRO:HA	6:H:419:LEU:HD13	1.95	0.47
6:H:645:GLU:O	6:H:648:LYS:HB2	2.14	0.47
7:I:21:DA:N3	8:J:35:DT:N3	2.59	0.47
8:J:25:DT:H5''	8:J:26:DT:C4	2.49	0.47
4:A:268:PRO:O	4:A:272:LEU:HG	2.13	0.47
4:A:767:GLU:OE2	4:A:854:ARG:NH2	2.47	0.47
5:B:488:ARG:HD2	5:B:501:GLU:OE2	2.13	0.47
6:C:346:CYS:O	6:C:390:VAL:N	2.47	0.47
4:S:105:VAL:HG23	4:S:108:LYS:HZ1	1.78	0.47
4:S:203:GLU:O	4:S:207:GLN:HG2	2.14	0.47
4:S:374:LYS:HD3	4:S:423:TYR:C	2.39	0.47
4:S:826:PHE:HZ	4:S:836:LYS:HB3	1.78	0.47
4:S:1026:ARG:NH2	4:S:1122:GLY:HA3	2.29	0.47
4:S:1335:CYS:SG	4:S:1385:ASN:ND2	2.87	0.47
4:S:1816:ARG:CZ	6:U:671:LEU:HD22	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1821:ASP:HA	4:S:1825:LEU:HD23	1.96	0.47
4:S:2102:LYS:O	4:S:2106:ARG:HG2	2.14	0.47
4:S:2160:TYR:HD2	4:S:2164:TRP:NE1	2.12	0.47
4:S:2815:GLY:HA2	4:S:2818:LYS:HG2	1.96	0.47
4:S:2852:PRO:HB2	4:S:2853:PRO:HD3	1.96	0.47
4:S:2966:SER:H	4:S:3253:SER:HB2	1.79	0.47
4:S:3097:ASP:OD1	4:S:3098:ARG:N	2.46	0.47
4:S:3395:GLU:HB3	4:S:3409:VAL:HG21	1.96	0.47
4:S:3669:LYS:HG3	4:S:3670:MET:HE3	1.94	0.47
4:S:3986:HIS:HA	4:S:3989:ARG:HH21	1.78	0.47
6:U:247:TRP:CD1	6:U:338:LYS:HE3	2.49	0.47
3:Y:58:ALA:HB1	3:Y:65:LEU:HD23	1.95	0.47
1:K:4:LYS:HA	1:K:129:TYR:OH	2.13	0.47
1:L:5:ILE:HD13	1:L:126:LEU:HD12	1.96	0.47
2:M:694:GLY:HA2	5:B:290:ARG:HH12	1.77	0.47
4:F:325:ASN:O	4:F:329:LYS:HG2	2.14	0.47
4:F:1013:ILE:HG22	4:F:1014:LEU:HD22	1.95	0.47
4:F:1334:LYS:O	4:F:1338:VAL:HG23	2.15	0.47
4:F:1389:VAL:O	4:F:1392:MET:HG2	2.13	0.47
4:F:1534:ASN:O	4:F:1554:SER:HB2	2.13	0.47
4:F:1865:THR:O	4:F:1868:THR:OG1	2.27	0.47
4:F:1958:GLU:HG2	4:F:1959:LEU:N	2.29	0.47
4:F:3948:SER:HA	4:F:3951:GLN:HB2	1.97	0.47
6:H:131:HIS:ND1	6:H:219:ASP:HA	2.29	0.47
6:H:147:LEU:O	6:H:151:ILE:HG12	2.14	0.47
6:H:247:TRP:HB3	6:H:263:ALA:HB3	1.96	0.47
6:H:249:CYS:SG	6:H:250:ARG:N	2.87	0.47
6:H:274:LYS:HZ1	6:H:277:THR:HG22	1.79	0.47
6:H:489:ARG:HB2	6:H:508:ILE:HG13	1.96	0.47
7:I:20:DT:H3'	8:J:37:DG:C6	2.49	0.47
7:I:20:DT:H5'	8:J:37:DG:C2	2.49	0.47
4:A:92:PHE:HA	4:A:96:MET:SD	2.55	0.47
4:A:232:CYS:HB3	4:A:278:HIS:NE2	2.29	0.47
4:A:306:VAL:HA	4:A:309:LYS:HE2	1.95	0.47
4:A:1601:LEU:HD13	4:A:1651:LYS:HB3	1.96	0.47
4:A:2862:SER:HA	4:A:2868:LEU:HB3	1.96	0.47
4:A:2934:GLY:HA2	4:A:2936:TYR:CZ	2.49	0.47
4:A:3639:GLU:HA	4:A:3642:LYS:HG2	1.96	0.47
4:A:3776:ALA:HB1	4:A:3777:GLN:NE2	2.29	0.47
4:A:3836:PRO:HB3	4:A:4127:TRP:CZ2	2.49	0.47
4:A:4055:ASN:ND2	4:A:4097:GLY:H	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:89:GLY:N	5:B:101:ASN:O	2.47	0.47
5:B:534:TYR:CZ	6:C:260:ARG:HD3	2.48	0.47
9:D:23:DT:OP1	10:E:34:DT:H1'	2.15	0.47
4:S:1026:ARG:HA	4:S:1029:CYS:SG	2.54	0.47
4:S:1801:VAL:HG23	4:S:1824:LEU:HD11	1.96	0.47
4:S:2140:LEU:HD23	4:S:2143:ARG:HH11	1.79	0.47
4:S:2295:GLN:N	4:S:2295:GLN:OE1	2.48	0.47
4:S:2376:ASP:HA	4:S:2379:MET:HG2	1.96	0.47
4:S:3003:ASN:HA	4:S:3011:LEU:HD21	1.96	0.47
4:S:3118:ASP:HB3	4:S:3121:LEU:HD13	1.96	0.47
4:S:3235:LYS:HA	4:S:3238:MET:HG2	1.95	0.47
4:S:3389:VAL:HG11	4:S:3413:TYR:CZ	2.49	0.47
4:S:4094:PRO:HG2	4:S:4098:LEU:HD13	1.96	0.47
5:T:67:ILE:HA	5:T:70:VAL:HG22	1.95	0.47
5:T:415:PRO:HA	5:T:432:PHE:CE1	2.49	0.47
5:T:478:PHE:CG	6:U:405:VAL:HG21	2.49	0.47
6:U:60:GLY:N	6:U:76:ASN:O	2.42	0.47
6:U:112:ILE:HA	6:U:115:MET:HE3	1.95	0.47
6:U:315:ARG:HA	6:U:315:ARG:HD2	1.58	0.47
3:X:12:PRO:HB2	3:X:215:GLN:OE1	2.13	0.47
3:X:211:VAL:C	3:X:215:GLN:HE21	2.18	0.47
1:L:3:ARG:HH21	1:L:122:VAL:HG22	1.79	0.47
2:M:811:SER:HB2	2:M:814:ARG:HE	1.79	0.47
2:M:820:LEU:HD21	2:M:841:LYS:HB2	1.96	0.47
3:Q:218:TYR:HA	3:Q:221:VAL:HG12	1.96	0.47
4:F:85:ILE:O	4:F:89:LEU:HD23	2.15	0.47
4:F:710:PHE:O	4:F:714:VAL:HG22	2.14	0.47
4:F:1052:SER:OG	4:F:1054:VAL:O	2.30	0.47
4:F:1307:ILE:HG13	4:F:1308:ALA:H	1.79	0.47
4:F:2173:ALA:HA	4:F:2214:ARG:HH12	1.79	0.47
4:F:2230:VAL:O	4:F:2233:HIS:HB3	2.14	0.47
4:F:2238:ILE:O	4:F:2241:LEU:HG	2.14	0.47
4:F:2301:GLN:HA	4:F:2304:VAL:HG22	1.96	0.47
4:F:2310:VAL:HG13	4:F:2316:TYR:OH	2.14	0.47
4:F:2555:LEU:HB3	4:F:2809:PHE:HE2	1.78	0.47
4:F:2750:GLU:O	4:F:2754:GLU:HG2	2.15	0.47
4:F:2890:ILE:HG23	4:F:2926:LEU:HD11	1.96	0.47
4:F:3087:SER:HB3	4:F:3102:TYR:HB2	1.96	0.47
5:G:349:GLY:C	5:G:397:LEU:HB3	2.39	0.47
5:G:352:PRO:HB3	5:G:393:GLU:OE2	2.14	0.47
5:G:362:LEU:HD23	5:G:362:LEU:HA	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:147:LEU:HD23	6:H:147:LEU:H	1.79	0.47
8:J:18:DA:H2''	8:J:19:DA:C4	2.50	0.47
4:A:650:SER:O	4:A:654:ILE:HG13	2.14	0.47
4:A:793:LEU:HD23	4:A:869:ASN:C	2.40	0.47
4:A:1105:VAL:HG11	4:A:1157:PHE:HB2	1.96	0.47
4:A:1181:THR:HA	4:A:1184:ARG:NH2	2.29	0.47
4:A:1394:HIS:HA	4:A:1397:ASP:HB2	1.95	0.47
4:A:2154:GLU:HB2	4:A:2196:TRP:HE1	1.80	0.47
4:A:2490:GLU:HB3	4:A:2496:GLN:HE21	1.79	0.47
4:A:3458:SER:OG	4:A:3460:GLU:OE1	2.23	0.47
4:A:3463:LEU:HA	4:A:3498:TRP:CZ2	2.49	0.47
4:A:3472:ILE:HD11	4:A:3479:THR:O	2.14	0.47
4:A:3839:TYR:OH	4:A:4120:THR:N	2.48	0.47
4:A:3909:ALA:HB2	4:A:3980:MET:SD	2.55	0.47
5:B:271:VAL:HA	5:B:370:PRO:HA	1.95	0.47
6:C:166:PRO:HA	6:C:227:PHE:CD2	2.50	0.47
4:S:329:LYS:HB3	4:S:329:LYS:HE2	1.74	0.47
4:S:750:PRO:HA	4:S:753:GLN:HB2	1.97	0.47
4:S:1184:ARG:HE	4:S:1262:ALA:HA	1.79	0.47
4:S:1260:LEU:HD21	4:S:1297:PHE:CZ	2.50	0.47
4:S:1491:ILE:HG21	4:S:1558:TYR:CE2	2.48	0.47
4:S:1560:TYR:O	4:S:1564:SER:N	2.47	0.47
4:S:2094:MET:HE1	4:S:2148:LYS:HB3	1.96	0.47
4:S:2436:LEU:HD21	4:S:2461:PHE:HD2	1.79	0.47
4:S:3254:LEU:HB3	4:S:3283:LEU:HD12	1.96	0.47
4:S:3328:ILE:HD11	4:S:3412:ALA:HB2	1.95	0.47
4:S:3951:GLN:H	4:S:4067:GLY:C	2.22	0.47
4:S:4060:THR:HG21	4:S:4115:ASN:HD21	1.79	0.47
5:T:328:ILE:HG13	6:U:284:LEU:HD22	1.95	0.47
5:T:354:VAL:HG23	5:T:355:LEU:H	1.78	0.47
5:T:407:PRO:HG3	6:U:486:ARG:HA	1.96	0.47
6:U:46:VAL:O	6:U:238:LYS:N	2.47	0.47
6:U:108:LEU:HD12	6:U:149:ILE:HB	1.95	0.47
6:U:129:LYS:HE3	6:U:217:GLY:HA3	1.96	0.47
3:X:210:PHE:CE1	3:Y:140:MET:HG2	2.49	0.47
3:Y:198:LEU:O	3:Y:202:CYS:N	2.47	0.47
1:N:124:ARG:HA	1:N:127:ILE:HG12	1.96	0.47
2:P:863:VAL:HB	2:P:875:PHE:CE1	2.50	0.47
3:Q:106:LEU:O	3:Q:108:VAL:N	2.45	0.47
4:F:997:ASN:HA	4:F:1043:GLN:HG3	1.96	0.47
4:F:1458:LEU:O	4:F:1463:LEU:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1505:LEU:HA	4:F:1508:LYS:HB2	1.95	0.47
4:F:1685:ASP:OD1	4:F:1686:LEU:N	2.47	0.47
4:F:1766:LEU:HD13	4:F:1778:PHE:CG	2.50	0.47
4:F:2123:PRO:HA	4:F:2127:LYS:HG2	1.94	0.47
4:F:2224:PHE:HA	4:F:2231:PHE:CE1	2.49	0.47
4:F:2376:ASP:O	4:F:2379:MET:HE1	2.13	0.47
4:F:3183:ILE:CG1	4:F:3242:MET:HE3	2.39	0.47
4:F:3228:SER:HA	4:F:3231:ILE:HG12	1.96	0.47
4:F:3265:GLU:HB2	4:F:3272:TRP:NE1	2.30	0.47
4:F:3338:ALA:HB2	4:F:3377:LEU:HB3	1.95	0.47
4:F:3603:LYS:HZ2	4:F:3647:GLY:H	1.60	0.47
4:F:3958:LEU:HD12	4:F:3958:LEU:HA	1.75	0.47
5:G:256:LEU:HD23	5:G:274:TYR:CE2	2.50	0.47
5:G:471:PHE:HB2	6:H:344:GLY:HA3	1.97	0.47
6:H:89:ASP:N	6:H:89:ASP:OD1	2.46	0.47
4:A:297:LEU:HD13	4:A:316:LEU:HA	1.95	0.47
4:A:328:ALA:HB1	4:A:375:VAL:HG21	1.96	0.47
4:A:894:PHE:CE2	4:A:896:VAL:HG22	2.50	0.47
4:A:988:VAL:O	4:A:991:LEU:HG	2.14	0.47
4:A:1151:ARG:H	4:A:1163:LEU:HD23	1.79	0.47
4:A:1366:THR:O	4:A:1418:HIS:NE2	2.47	0.47
4:A:2240:THR:O	4:A:2244:CYS:HB3	2.14	0.47
4:A:3592:VAL:HG13	4:A:3606:ILE:HB	1.96	0.47
4:A:3687:MET:HA	4:A:3690:PHE:HB2	1.97	0.47
5:B:37:SER:HB3	5:B:161:MET:HE3	1.95	0.47
6:C:7:LYS:HD2	6:C:53:GLU:HG3	1.95	0.47
6:C:105:ALA:N	6:C:140:SER:OG	2.33	0.47
4:S:894:PHE:HD2	4:S:905:ILE:HG13	1.79	0.47
4:S:1142:HIS:O	4:S:1146:ASN:N	2.40	0.47
4:S:1203:SER:N	4:S:1204:PRO:HD3	2.30	0.47
4:S:1414:ILE:HD12	4:S:1418:HIS:HE1	1.80	0.47
4:S:1714:LEU:O	4:S:1718:ILE:HG12	2.15	0.47
4:S:2880:CYS:HB2	4:S:2885:GLN:O	2.15	0.47
4:S:3016:THR:O	4:S:3019:ILE:HG23	2.14	0.47
4:S:3033:GLU:HB2	4:S:3034:PRO:HD3	1.97	0.47
4:S:3573:ASN:HB3	4:S:3623:PRO:HG2	1.96	0.47
4:S:3771:MET:HE1	4:S:3914:SER:HA	1.96	0.47
4:S:3810:VAL:HG12	4:S:3930:VAL:HG11	1.95	0.47
5:T:81:ASP:N	5:T:110:ASN:OD1	2.43	0.47
5:T:131:PHE:O	5:T:136:GLY:N	2.47	0.47
5:T:341:ASP:N	5:T:341:ASP:OD1	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:16:VAL:N	6:U:59:PHE:O	2.31	0.47
6:U:41:PHE:CD1	6:U:44:ARG:HD2	2.49	0.47
6:U:265:LYS:HG2	6:U:362:LEU:HA	1.96	0.47
6:U:306:LEU:HB2	6:U:308:GLU:HG2	1.97	0.47
6:U:339:CYS:HB2	6:U:396:ALA:HB3	1.97	0.47
1:N:155:TRP:NE1	1:O:154:ASP:HB3	2.29	0.47
3:Q:109:ARG:HH21	3:Q:119:TRP:N	2.13	0.47
3:R:5:GLU:HB2	3:R:130:LEU:HD21	1.96	0.47
4:F:18:THR:O	4:F:22:ALA:N	2.39	0.47
4:F:623:PHE:O	4:F:626:LEU:HG	2.14	0.47
4:F:738:HIS:HA	4:F:741:ILE:HG12	1.96	0.47
4:F:802:THR:HG21	4:F:922:SER:OG	2.13	0.47
4:F:950:GLU:H	4:F:955:ALA:HB1	1.80	0.47
4:F:1221:ILE:HD11	4:F:1229:CYS:HA	1.95	0.47
4:F:1773:VAL:O	4:F:1773:VAL:HG12	2.15	0.47
4:F:2161:ALA:HA	4:F:2164:TRP:HB2	1.95	0.47
4:F:2587:GLN:HE21	4:F:2777:HIS:CD2	2.31	0.47
4:F:3450:MET:HE1	4:F:3461:ALA:HA	1.96	0.47
4:F:3816:LEU:O	4:F:3819:THR:OG1	2.27	0.47
4:F:3924:HIS:HD2	4:F:3926:ASN:HB2	1.80	0.47
5:G:259:LEU:HB2	5:G:273:ILE:HD11	1.96	0.47
5:G:444:ARG:HH12	7:I:23:DT:P	2.38	0.47
6:H:28:GLU:HG3	6:H:33:GLN:HB3	1.95	0.47
6:H:345:PHE:HB3	6:H:389:MET:SD	2.54	0.47
6:H:411:HIS:NE2	6:H:416:TYR:O	2.48	0.47
7:I:35:DT:H2'	7:I:36:DA:O4'	2.13	0.47
4:A:385:TYR:HA	4:A:388:LEU:HD12	1.96	0.47
4:A:391:ARG:CZ	4:A:1737:ASN:HD21	2.27	0.47
4:A:392:CYS:HA	4:A:396:PHE:CD2	2.49	0.47
4:A:1017:ILE:HG21	4:A:1077:GLY:CA	2.45	0.47
4:A:1749:ALA:O	4:A:1753:SER:HB3	2.14	0.47
4:A:1804:MET:HE1	4:A:1819:PHE:CD1	2.49	0.47
4:A:2203:THR:HA	4:A:2248:CYS:SG	2.54	0.47
4:A:2959:ALA:N	4:A:2962:ARG:HH21	2.13	0.47
4:A:3316:LEU:HB3	4:A:3326:GLN:OE1	2.15	0.47
4:A:3472:ILE:HG21	4:A:3483:MET:HE3	1.94	0.47
4:A:4046:TYR:CZ	4:A:4061:CYS:HB3	2.50	0.47
4:A:4073:ALA:HB1	4:A:4076:ASP:HB2	1.95	0.47
6:C:463:LEU:HA	6:C:476:LEU:HD12	1.95	0.47
4:S:1154:PRO:HD3	4:S:1163:LEU:HD21	1.97	0.47
4:S:2223:VAL:CG2	4:S:2234:ASN:HB3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2464:HIS:ND1	4:S:2469:CYS:SG	2.87	0.47
4:S:2773:ARG:NH2	4:S:2775:TYR:HA	2.30	0.47
4:S:2923:TRP:HZ3	4:S:3973:PRO:HA	1.79	0.47
4:S:3262:LEU:HA	4:S:3272:TRP:NE1	2.30	0.47
4:S:3629:ARG:HA	4:S:3632:PHE:HB2	1.96	0.47
5:T:254:ARG:NH1	7:V:35:DT:O4'	2.47	0.47
5:T:351:LYS:HG2	5:T:412:ALA:HB2	1.97	0.47
6:U:129:LYS:HD2	6:U:218:GLU:H	1.80	0.47
6:U:620:ILE:HG21	6:U:662:LEU:HD21	1.96	0.47
6:U:675:TRP:CD1	6:U:679:VAL:HG23	2.48	0.47
3:X:142:MET:HE1	3:X:210:PHE:CE1	2.49	0.47
1:K:37:THR:HG23	1:K:42:ALA:HB2	1.97	0.47
1:K:135:ALA:HA	1:L:136:GLU:O	2.14	0.47
2:M:822:SER:HA	2:M:838:LEU:HD22	1.96	0.47
2:M:898:ILE:C	2:M:901:CYS:H	2.23	0.47
1:O:3:ARG:HA	1:O:23:SER:HA	1.96	0.47
1:O:67:VAL:O	1:O:71:ARG:HG2	2.14	0.47
4:F:157:TYR:CD1	4:F:192:ASN:HB3	2.50	0.47
4:F:489:ARG:O	4:F:492:SER:OG	2.24	0.47
4:F:697:ASP:HB2	4:F:700:LYS:HG2	1.97	0.47
4:F:1580:LEU:HA	4:F:1583:MET:HG3	1.97	0.47
4:F:2499:PHE:CZ	4:F:2503:LYS:HD3	2.50	0.47
4:F:2504:ASP:O	4:F:2508:GLN:HG2	2.15	0.47
4:F:2838:GLN:HA	4:F:2841:ASN:HD22	1.80	0.47
4:F:3243:ILE:O	4:F:3247:ARG:HB3	2.14	0.47
4:F:3549:HIS:HA	4:F:3552:LYS:HG2	1.96	0.47
5:G:338:LYS:CG	5:G:407:PRO:HD3	2.44	0.47
5:G:363:ARG:HG3	5:G:436:PHE:CD1	2.50	0.47
6:H:316:TYR:HB3	6:H:321:VAL:HG23	1.97	0.47
6:H:395:TYR:O	6:H:404:GLN:N	2.44	0.47
4:A:251:PHE:CE2	6:C:553:ILE:HB	2.48	0.47
4:A:634:LEU:HD23	4:A:672:ILE:HG13	1.95	0.47
4:A:639:ALA:O	4:A:643:GLU:N	2.47	0.47
4:A:911:LEU:HA	4:A:914:VAL:HG22	1.95	0.47
4:A:1055:ASN:HA	4:A:1062:ARG:NH1	2.29	0.47
4:A:1097:GLU:HB2	4:A:1151:ARG:HH11	1.79	0.47
4:A:1101:PHE:C	4:A:1154:PRO:HG3	2.39	0.47
4:A:1985:LYS:HA	4:A:2184:TYR:HB2	1.95	0.47
4:A:2488:GLU:OE1	4:A:2488:GLU:N	2.47	0.47
4:A:3481:SER:HA	4:A:3484:THR:OG1	2.15	0.47
4:A:3728:VAL:HA	4:A:3735:PRO:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3864:ARG:NH2	4:A:4113:ASP:OD1	2.36	0.47
5:B:319:SER:HG	6:C:277:THR:HG1	1.40	0.47
6:C:68:LEU:HD23	6:C:116:ASP:HB3	1.97	0.47
6:C:264:TYR:O	6:C:265:LYS:HG3	2.15	0.47
4:S:288:ASP:OD1	4:S:288:ASP:N	2.45	0.47
4:S:1037:LEU:HD22	4:S:1059:LEU:HD21	1.97	0.47
4:S:1108:MET:HE2	4:S:1187:SER:HB3	1.97	0.47
4:S:1340:ARG:NH2	4:S:1343:GLU:OE1	2.47	0.47
4:S:2165:LEU:HG	4:S:2200:ALA:HB1	1.97	0.47
4:S:2196:TRP:NE1	4:S:2200:ALA:HB3	2.30	0.47
4:S:2894:GLU:OE1	4:S:3901:ARG:NH2	2.47	0.47
4:S:3233:SER:HB3	4:S:3269:ARG:HH12	1.79	0.47
4:S:3533:PHE:HD1	4:S:3559:LYS:HA	1.80	0.47
5:T:49:PHE:HA	5:T:58:THR:HB	1.95	0.47
5:T:114:LYS:HZ3	5:T:115:ARG:HD3	1.79	0.47
5:T:320:GLN:HB3	5:T:322:TYR:HD1	1.79	0.47
5:T:473:TYR:CZ	6:U:351:VAL:HB	2.50	0.47
6:U:59:PHE:HA	6:U:77:ILE:HA	1.95	0.47
3:X:48:GLN:HG3	3:X:135:LEU:HD21	1.97	0.47
1:K:18:HIS:CE1	1:K:90:LYS:HE3	2.48	0.47
1:K:59:MET:HB3	1:K:101:LEU:HD23	1.95	0.47
1:L:3:ARG:HB2	1:L:21:GLN:HG2	1.96	0.47
1:L:169:LYS:NZ	2:M:847:PHE:O	2.26	0.47
1:O:154:ASP:O	1:O:158:VAL:HG23	2.15	0.47
2:P:681:ARG:HE	2:P:730:PHE:HD2	1.62	0.47
2:P:891:GLU:O	2:P:895:THR:HG23	2.15	0.47
3:Q:117:PHE:CE2	3:Q:119:TRP:HB2	2.50	0.47
4:F:36:ARG:O	4:F:40:GLN:NE2	2.28	0.47
4:F:153:PHE:HA	4:F:156:PHE:CD2	2.48	0.47
4:F:226:GLY:HA2	4:F:229:SER:OG	2.15	0.47
4:F:527:TYR:HB2	4:F:629:PHE:CE1	2.49	0.47
4:F:736:LEU:HD12	4:F:740:ILE:HD11	1.97	0.47
4:F:1136:ARG:O	4:F:1139:GLU:HG3	2.14	0.47
4:F:1376:LEU:HD22	4:F:1399:CYS:SG	2.55	0.47
4:F:1436:LEU:HD23	4:F:1436:LEU:H	1.80	0.47
4:F:1538:LEU:HD22	4:F:1551:ILE:HG23	1.96	0.47
4:F:1867:ILE:O	4:F:1871:MET:HG2	2.15	0.47
4:F:2323:LEU:HD23	4:F:2326:ILE:HD12	1.95	0.47
4:F:2412:TYR:CE1	4:F:2450:GLU:HB3	2.50	0.47
4:F:3413:TYR:CB	4:F:3453:ALA:HB2	2.43	0.47
4:F:3571:PHE:CD1	4:F:3699:LEU:HD13	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3851:ASP:HB2	4:F:3854:ALA:HB3	1.95	0.47
4:F:4094:PRO:HB2	4:F:4098:LEU:HD13	1.97	0.47
5:G:64:ILE:HD13	5:G:67:ILE:HD11	1.96	0.47
5:G:85:VAL:HG21	5:G:105:LEU:HD23	1.96	0.47
5:G:206:LYS:H	5:G:213:ILE:HD13	1.80	0.47
5:G:271:VAL:HB	5:G:368:VAL:HG13	1.96	0.47
5:G:273:ILE:HA	5:G:367:PHE:O	2.14	0.47
5:G:343:PRO:HD3	5:G:404:ARG:HG3	1.97	0.47
5:G:387:ILE:HG21	6:H:446:PRO:HG3	1.97	0.47
5:G:400:TYR:CZ	5:G:402:PRO:HA	2.49	0.47
6:H:63:GLY:N	6:H:103:GLN:OE1	2.43	0.47
6:H:205:LEU:HA	6:H:208:VAL:HG12	1.97	0.47
6:H:234:LEU:HB3	6:H:488:GLN:OE1	2.15	0.47
6:H:393:VAL:N	6:H:406:GLY:O	2.34	0.47
6:H:499:LEU:HB3	6:H:500:HIS:CD2	2.49	0.47
8:J:35:DT:H2''	8:J:36:DG:O4'	2.15	0.47
4:A:198:ARG:HH21	5:B:312:LEU:HD12	1.79	0.47
4:A:201:LEU:HB2	4:A:249:PHE:CE2	2.48	0.47
4:A:301:CYS:HB2	4:A:313:LEU:HG	1.95	0.47
4:A:708:VAL:O	4:A:712:LYS:HG2	2.15	0.47
4:A:926:THR:HG22	4:A:2800:ARG:HD2	1.95	0.47
4:A:969:LEU:HA	4:A:984:TYR:OH	2.14	0.47
4:A:1110:SER:HA	4:A:1113:LEU:HD12	1.97	0.47
4:A:1235:ILE:HD11	4:A:1293:ALA:HB2	1.96	0.47
4:A:1568:ASN:ND2	4:A:1606:ARG:HH22	2.13	0.47
4:A:1603:GLN:O	4:A:1603:GLN:NE2	2.47	0.47
4:A:1923:PHE:HB2	4:A:1975:LEU:HD21	1.97	0.47
4:A:2189:ILE:O	4:A:2193:ILE:HG13	2.14	0.47
4:A:2976:LEU:HD13	4:A:2994:TRP:HB2	1.97	0.47
4:A:3236:PHE:CD2	4:A:3240:MET:HE1	2.48	0.47
4:A:3269:ARG:HB3	4:A:3271:ASP:OD1	2.15	0.47
4:A:3705:TYR:OH	4:A:3712:LEU:HB3	2.14	0.47
5:B:247:ARG:HH22	5:B:488:ARG:HA	1.80	0.47
5:B:369:TYR:HD1	5:B:370:PRO:O	1.97	0.47
5:B:469:LEU:HD22	5:B:511:VAL:HB	1.95	0.47
6:C:14:MET:SD	6:C:38:ILE:HG21	2.54	0.47
6:C:52:ASP:N	6:C:52:ASP:OD1	2.48	0.47
6:C:203:GLU:O	6:C:206:GLU:HG3	2.15	0.47
4:S:149:ILE:HD11	4:S:183:GLU:N	2.29	0.47
4:S:178:LEU:CB	4:S:227:LEU:HD12	2.42	0.47
4:S:367:GLY:HA3	4:S:416:SER:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:488:ILE:HD11	4:S:575:ILE:HD12	1.96	0.47
4:S:670:LEU:HG	4:S:710:PHE:HZ	1.79	0.47
4:S:791:ASP:C	4:S:794:PRO:HD2	2.40	0.47
4:S:1377:CYS:HA	4:S:1454:ALA:HB2	1.97	0.47
4:S:1484:LEU:O	4:S:1488:TYR:CB	2.62	0.47
4:S:1775:GLU:O	4:S:1778:PHE:N	2.48	0.47
4:S:1841:SER:HA	4:S:1844:VAL:HG23	1.96	0.47
4:S:1863:PHE:HA	4:S:1866:GLN:CD	2.40	0.47
4:S:2380:ASN:O	4:S:2384:PHE:HB2	2.14	0.47
4:S:2576:MET:SD	4:S:2790:LEU:HD22	2.55	0.47
4:S:3300:VAL:HG11	4:S:3359:ILE:HG21	1.96	0.47
4:S:3583:LEU:HB3	4:S:3755:GLY:HA3	1.97	0.47
4:S:3764:VAL:HG22	4:S:4002:MET:HG2	1.95	0.47
5:T:95:ASN:HB2	5:T:149:VAL:HG21	1.97	0.47
5:T:404:ARG:NH2	7:V:32:DA:H5''	2.30	0.47
5:T:418:GLU:OE1	6:U:438:LEU:HB3	2.15	0.47
6:U:47:PHE:HA	6:U:238:LYS:HA	1.95	0.47
6:U:247:TRP:HD1	6:U:338:LYS:HE3	1.79	0.47
6:U:300:ASP:N	6:U:300:ASP:OD1	2.47	0.47
6:U:508:ILE:HG12	6:U:512:ILE:HG21	1.96	0.47
6:U:636:ILE:HG22	6:U:678:VAL:HG22	1.95	0.47
3:X:144:LEU:HD13	3:Y:204:ILE:HG13	1.95	0.47
2:M:774:LEU:HD12	2:M:774:LEU:HA	1.74	0.47
1:N:174:THR:HG22	1:N:178:LYS:HZ2	1.79	0.47
1:O:174:THR:HA	2:P:792:MET:SD	2.54	0.47
3:Q:136:ILE:HG21	3:R:41:LEU:O	2.14	0.47
3:Q:146:LEU:HD11	3:Q:214:LEU:HD11	1.97	0.47
3:Q:146:LEU:HB3	3:R:146:LEU:HB3	1.95	0.47
3:R:37:LEU:HA	3:R:45:TRP:O	2.15	0.47
3:R:44:VAL:HG11	3:R:131:VAL:HG22	1.96	0.47
4:F:386:VAL:O	4:F:390:GLN:HG2	2.14	0.47
4:F:584:GLU:O	4:F:613:HIS:N	2.36	0.47
4:F:1251:GLN:OE1	4:F:1251:GLN:N	2.35	0.47
4:F:1255:CYS:HA	4:F:1258:ASP:OD2	2.15	0.47
4:F:1384:PHE:HB2	4:F:1386:ILE:HG12	1.97	0.47
4:F:1613:HIS:HA	4:F:1616:LEU:HB2	1.97	0.47
4:F:1620:THR:O	4:F:1624:GLN:HG2	2.15	0.47
4:F:1623:LEU:HG	4:F:1671:VAL:HG11	1.96	0.47
4:F:1637:SER:O	4:F:1642:LYS:HE2	2.15	0.47
4:F:1797:LEU:O	4:F:1800:SER:OG	2.26	0.47
4:F:2493:ASN:ND2	4:F:2496:GLN:OE1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2533:SER:HA	4:F:2538:ARG:HH21	1.79	0.47
4:F:3009:LYS:HE3	4:F:3013:TYR:CE1	2.50	0.47
4:F:3029:LYS:HE2	4:F:3067:LYS:NZ	2.29	0.47
4:F:3091:LEU:HA	4:F:3095:ASP:O	2.14	0.47
4:F:3337:ILE:HG21	4:F:3360:LEU:HD21	1.96	0.47
5:G:263:LEU:HB2	5:G:267:ILE:HD11	1.96	0.47
5:G:329:LEU:HG	5:G:330:GLU:H	1.78	0.47
6:H:265:LYS:HD3	6:H:268:LEU:HD13	1.97	0.47
4:A:631:ARG:NH1	4:A:668:LYS:HA	2.30	0.47
4:A:1218:SER:OG	4:A:1285:GLU:N	2.33	0.47
4:A:1474:ASP:OD1	4:A:1474:ASP:N	2.47	0.47
4:A:3781:CYS:HB2	4:A:3784:ARG:HG2	1.97	0.47
6:C:105:ALA:O	6:C:140:SER:OG	2.29	0.47
4:S:153:PHE:CE2	4:S:188:GLU:HB3	2.49	0.47
4:S:320:LEU:HA	4:S:323:VAL:HG22	1.97	0.47
4:S:995:PHE:CE1	4:S:1008:ALA:HB1	2.49	0.47
4:S:1403:MET:SD	4:S:1458:LEU:HD23	2.55	0.47
4:S:1879:VAL:HG22	4:S:1883:ARG:NH1	2.23	0.47
4:S:2552:VAL:HA	4:S:2851:PHE:CD2	2.50	0.47
4:S:2773:ARG:HG2	4:S:2774:SER:H	1.80	0.47
4:S:2962:ARG:NH2	4:S:3289:ARG:HB2	2.30	0.47
4:S:3808:ASN:HB3	4:S:3938:ILE:HD11	1.96	0.47
5:T:400:TYR:O	5:T:409:TYR:N	2.41	0.47
5:T:400:TYR:N	5:T:409:TYR:O	2.35	0.47
6:U:666:VAL:HG21	6:U:678:VAL:HG21	1.97	0.47
1:N:161:ARG:HH22	2:P:837:ARG:HD2	1.79	0.47
1:O:98:GLU:HA	1:O:107:ARG:HA	1.96	0.47
2:P:879:ARG:HD2	2:P:888:ILE:HD11	1.97	0.47
3:Q:54:VAL:HG22	3:Q:57:ARG:HH21	1.78	0.47
3:Q:164:ILE:HG12	3:R:163:GLU:HG2	1.97	0.47
4:F:668:LYS:O	4:F:671:SER:OG	2.27	0.47
4:F:853:ILE:HG22	4:F:854:ARG:HH22	1.79	0.47
4:F:983:LEU:HB3	4:F:2591:ILE:HG13	1.96	0.47
4:F:1029:CYS:O	4:F:1033:ILE:HG12	2.15	0.47
4:F:1453:SER:O	4:F:1457:GLN:HG3	2.15	0.47
4:F:1879:VAL:O	4:F:1883:ARG:HG2	2.15	0.47
4:F:2166:SER:O	4:F:2169:LEU:N	2.48	0.47
4:F:2375:ALA:HA	4:F:2378:PHE:HD1	1.80	0.47
4:F:2420:PHE:CE1	4:F:2424:MET:HB3	2.50	0.47
4:F:2860:ASP:OD1	4:F:2888:VAL:HG21	2.15	0.47
4:F:3887:PHE:HB3	4:F:3897:PHE:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3913:ILE:HD12	4:F:3916:TRP:HB3	1.97	0.47
4:A:174:VAL:O	4:A:178:LEU:HG	2.14	0.47
4:A:334:HIS:O	4:A:338:LEU:N	2.36	0.47
4:A:446:PHE:CZ	4:A:451:PRO:HB3	2.50	0.47
4:A:649:PHE:CE2	4:A:669:LEU:HD21	2.49	0.47
4:A:977:ASP:O	4:A:981:ARG:HG2	2.15	0.47
4:A:1801:VAL:O	4:A:1805:PHE:HB3	2.15	0.47
4:A:1806:ARG:NE	4:A:1846:ASP:OD2	2.48	0.47
4:A:2551:GLU:HB2	4:A:2854:PHE:CG	2.50	0.47
4:A:3038:GLU:HA	4:A:3041:LEU:HG	1.96	0.47
4:A:3767:LEU:HD13	4:A:3918:LEU:HD22	1.96	0.47
5:B:348:MET:SD	5:B:399:ARG:HG3	2.55	0.47
5:B:388:LYS:HD3	6:C:451:LEU:HD13	1.97	0.47
5:B:389:CYS:HA	5:B:392:LYS:HG2	1.96	0.47
6:C:457:LEU:HA	6:C:526:SER:OG	2.15	0.47
4:S:566:ASP:HA	4:S:645:TRP:HZ2	1.80	0.47
4:S:1102:GLU:HG3	4:S:1152:ARG:HB3	1.96	0.47
4:S:1871:MET:HG2	4:S:1875:LYS:HD2	1.97	0.47
4:S:2339:GLU:HA	4:S:2342:CYS:HB2	1.96	0.47
4:S:2432:GLN:HA	4:S:2435:CYS:HB3	1.96	0.47
4:S:2897:LEU:HD11	4:S:2923:TRP:CG	2.50	0.47
4:S:3151:LEU:HB2	4:S:3197:LEU:N	2.29	0.47
4:S:3842:TRP:HA	4:S:3858:MET:HA	1.96	0.47
4:S:4038:TRP:CZ3	4:S:4040:PRO:HA	2.49	0.47
4:S:4047:ALA:HA	4:S:4050:LYS:HE2	1.96	0.47
6:U:161:LEU:N	6:U:211:VAL:HG11	2.17	0.47
8:W:17:DT:H2'	8:W:18:DA:C4	2.50	0.47
3:Y:216:ASP:N	3:Y:216:ASP:OD1	2.47	0.47
1:K:150:ARG:HG3	1:K:153:ARG:HH21	1.79	0.47
1:L:196:ASN:HA	1:L:199:LEU:HD12	1.96	0.47
2:P:844:GLU:OE1	2:P:895:THR:HA	2.15	0.47
3:Q:45:TRP:CE2	3:Q:104:LEU:HB2	2.49	0.47
3:Q:175:ILE:HD13	3:R:166:ASP:HB3	1.95	0.47
4:F:35:ILE:O	4:F:38:LEU:HB3	2.15	0.47
4:F:135:LEU:HA	4:F:138:PHE:CD2	2.49	0.47
4:F:967:PRO:HD3	4:F:1011:GLU:OE2	2.15	0.47
4:F:983:LEU:C	4:F:986:PRO:HD2	2.40	0.47
4:F:987:LEU:O	4:F:991:LEU:HG	2.15	0.47
4:F:1112:ALA:O	4:F:1180:GLN:HG2	2.15	0.47
4:F:1326:GLU:HB3	4:F:1329:ARG:HB3	1.97	0.47
4:F:1783:ARG:HD2	4:F:1830:HIS:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1952:ILE:HG22	4:F:2103:HIS:CE1	2.49	0.47
4:F:2365:ASN:O	4:F:2369:LYS:N	2.42	0.47
4:F:3496:ILE:O	4:F:3499:ILE:HB	2.14	0.47
4:F:3550:LYS:O	4:F:3553:GLU:HG2	2.15	0.47
6:H:186:GLY:HA3	6:H:514:ASN:OD1	2.15	0.47
4:A:741:ILE:HG13	4:A:776:TRP:NE1	2.30	0.47
4:A:1234:GLY:HA2	4:A:1259:LEU:HD13	1.97	0.47
4:A:1694:THR:C	4:A:1697:PRO:HD2	2.40	0.47
4:A:1927:MET:SD	4:A:1934:LEU:HB3	2.55	0.47
4:A:3953:LEU:HB2	4:A:4068:HIS:CD2	2.50	0.47
5:B:426:GLN:HG3	5:B:429:PRO:HB3	1.96	0.47
5:B:478:PHE:HB2	6:C:426:PHE:CD1	2.45	0.47
6:C:165:LEU:HB2	6:C:224:ILE:HG23	1.97	0.47
4:S:145:ASP:OD1	4:S:145:ASP:N	2.47	0.47
4:S:895:ALA:HB1	4:S:902:LYS:HB3	1.96	0.47
4:S:2279:ILE:O	4:S:2283:ASN:ND2	2.48	0.47
4:S:3385:LEU:HA	4:S:3388:ALA:HB3	1.96	0.47
4:S:3751:LEU:HB3	4:S:3803:ILE:HG12	1.97	0.47
5:T:368:VAL:HG23	5:T:434:LEU:HG	1.96	0.47
6:U:487:PHE:HA	6:U:490:LEU:HB3	1.96	0.47
3:X:106:LEU:HD13	3:X:120:ASN:HB2	1.95	0.47
3:X:216:ASP:OD1	3:X:216:ASP:N	2.48	0.47
3:Y:12:PRO:HA	3:Y:218:TYR:HD2	1.80	0.47
1:K:62:GLU:HB3	3:R:111:GLU:HB3	1.97	0.46
1:K:95:PHE:O	1:K:111:PHE:N	2.32	0.46
3:R:129:SER:O	3:R:133:GLN:HG2	2.15	0.46
4:F:99:LYS:HB3	4:F:99:LYS:HE3	1.61	0.46
4:F:145:ASP:OD1	4:F:145:ASP:N	2.46	0.46
4:F:638:GLN:HB2	4:F:640:GLU:HG3	1.96	0.46
4:F:665:GLY:HA2	4:F:668:LYS:HB3	1.97	0.46
4:F:784:VAL:O	4:F:787:PRO:HD2	2.15	0.46
4:F:867:ASN:ND2	4:F:3133:GLN:OE1	2.48	0.46
4:F:1065:SER:HB2	4:F:1069:HIS:HE1	1.80	0.46
4:F:1816:ARG:NH1	6:H:625:ASP:O	2.47	0.46
4:F:1920:TYR:O	4:F:1924:THR:OG1	2.30	0.46
4:F:2331:MET:SD	4:F:2335:ASN:HB3	2.55	0.46
4:F:3288:SER:HA	4:F:3292:GLY:CA	2.42	0.46
4:F:3537:SER:OG	4:F:3538:GLU:OE1	2.28	0.46
5:G:42:VAL:O	5:G:87:PHE:HA	2.14	0.46
5:G:347:LEU:HD21	5:G:350:PHE:HE1	1.80	0.46
6:H:299:ASP:HB2	6:H:302:GLU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:346:TYR:HE1	4:A:384:MET:HE3	1.80	0.46
4:A:473:PRO:HD3	4:A:1553:PHE:CD2	2.50	0.46
4:A:631:ARG:HH22	4:A:675:ARG:HH22	1.62	0.46
4:A:678:LYS:HD2	4:A:735:SER:O	2.14	0.46
4:A:794:PRO:O	4:A:797:ASP:HB2	2.15	0.46
4:A:901:MET:HB2	4:A:2819:GLU:OE1	2.14	0.46
4:A:1360:LYS:O	4:A:1363:LEU:HG	2.15	0.46
4:A:1952:ILE:HA	4:A:1955:VAL:O	2.15	0.46
4:A:2443:MET:HA	4:A:2446:LEU:HB2	1.97	0.46
4:A:3027:LEU:HD21	4:A:3044:MET:SD	2.56	0.46
4:A:3236:PHE:CD1	4:A:3259:LEU:HD11	2.50	0.46
4:A:3760:GLN:CD	4:A:3760:GLN:H	2.24	0.46
5:B:102:ILE:HG12	5:B:146:VAL:HG12	1.97	0.46
4:S:301:CYS:O	4:S:309:LYS:HG2	2.15	0.46
4:S:782:ARG:NH1	4:S:3168:TYR:OH	2.48	0.46
4:S:1059:LEU:O	4:S:1063:LEU:HD23	2.16	0.46
4:S:1121:LEU:HG	4:S:1122:GLY:H	1.79	0.46
4:S:1134:LEU:HA	4:S:1137:ILE:HG12	1.97	0.46
4:S:1237:ALA:HB1	4:S:1256:TRP:CG	2.50	0.46
4:S:1679:LEU:HD13	4:S:1714:LEU:HD21	1.97	0.46
4:S:1826:THR:OG1	4:S:1827:LEU:N	2.47	0.46
4:S:2154:GLU:HA	4:S:2157:PHE:CZ	2.50	0.46
4:S:2310:VAL:HG13	4:S:2316:TYR:CZ	2.50	0.46
4:S:3806:LEU:HB2	4:S:3938:ILE:HG23	1.97	0.46
4:S:4083:GLY:HA3	4:S:4089:ILE:HG22	1.97	0.46
5:T:360:HIS:C	5:T:438:PRO:HB3	2.40	0.46
5:T:420:LEU:HD22	6:U:439:LYS:HE2	1.98	0.46
6:U:41:PHE:HB2	6:U:230:SER:OG	2.16	0.46
6:U:400:ARG:NH2	8:W:34:DT:OP2	2.34	0.46
6:U:509:GLN:HB3	6:U:512:ILE:HG12	1.96	0.46
8:W:24:DT:H2''	8:W:25:DT:O5'	2.14	0.46
1:N:131:LEU:HD23	1:O:7:ARG:NH2	2.30	0.46
4:F:407:VAL:HA	4:F:410:MET:CE	2.43	0.46
4:F:480:SER:HA	4:F:567:GLU:OE2	2.14	0.46
4:F:923:ASP:HB3	4:F:926:THR:HB	1.97	0.46
4:F:1048:GLN:O	4:F:1052:SER:HB2	2.15	0.46
4:F:1527:ARG:O	4:F:1531:LEU:HG	2.15	0.46
4:F:1763:THR:O	4:F:1767:CYS:N	2.48	0.46
4:F:2562:LEU:HA	4:F:2565:MET:HE3	1.97	0.46
4:F:2886:GLN:HG3	4:F:2929:LEU:HD22	1.97	0.46
4:F:3008:TRP:CD1	4:F:3008:TRP:H	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3193:ILE:O	4:F:3196:LYS:HG2	2.14	0.46
4:F:3728:VAL:HG11	4:F:3734:ARG:HH21	1.79	0.46
4:F:3751:LEU:HB3	4:F:3803:ILE:CG1	2.45	0.46
4:F:3901:ARG:HA	4:F:3904:PHE:HB3	1.97	0.46
5:G:93:ASP:OD1	5:G:102:ILE:N	2.32	0.46
5:G:183:ALA:HB1	5:G:187:ARG:NH1	2.30	0.46
5:G:372:GLU:HG2	5:G:378:SER:HB2	1.96	0.46
6:H:203:GLU:O	6:H:207:ILE:HG12	2.15	0.46
7:I:30:DA:N6	8:J:30:DT:C2	2.84	0.46
4:A:1667:SER:O	4:A:1667:SER:OG	2.31	0.46
4:A:2419:ASP:O	4:A:2422:GLN:HG3	2.14	0.46
4:A:3083:SER:OG	4:A:3102:TYR:O	2.33	0.46
4:A:3273:LEU:HD13	4:A:3315:TYR:CD1	2.49	0.46
4:A:3540:TYR:HB3	4:A:3542:PHE:CZ	2.51	0.46
4:A:4013:TRP:HE1	4:A:4034:ALA:H	1.63	0.46
5:B:293:ASN:CG	6:C:322:PRO:HB3	2.40	0.46
5:B:411:VAL:HG13	5:B:434:LEU:HG	1.96	0.46
5:B:478:PHE:HD1	5:B:506:LEU:HD13	1.80	0.46
6:C:355:PHE:CG	6:C:425:PRO:HG3	2.50	0.46
6:C:408:ALA:HB1	6:C:419:LEU:HD11	1.97	0.46
9:D:30:DA:H2"	9:D:31:DA:N7	2.30	0.46
4:S:63:PHE:HE1	4:S:85:ILE:HG23	1.81	0.46
4:S:203:GLU:HB2	4:S:224:LEU:HD22	1.97	0.46
4:S:583:LEU:HD22	4:S:620:PHE:HZ	1.81	0.46
4:S:897:PRO:HD2	4:S:2571:ASP:OD2	2.14	0.46
4:S:1101:PHE:CD2	4:S:1163:LEU:HB3	2.47	0.46
4:S:1468:LEU:HD21	4:S:1476:HIS:CD2	2.50	0.46
4:S:1689:LYS:O	4:S:1693:VAL:HG23	2.15	0.46
4:S:1825:LEU:HD11	4:S:1876:ILE:HB	1.97	0.46
4:S:2122:LEU:C	4:S:2127:LYS:HE3	2.39	0.46
4:S:2174:SER:H	4:S:2214:ARG:HH12	1.63	0.46
4:S:2980:ASP:OD1	4:S:2980:ASP:N	2.48	0.46
4:S:3785:ALA:O	4:S:3910:LEU:HD11	2.16	0.46
4:S:3939:GLY:HA3	4:S:3942:PHE:CE2	2.50	0.46
4:S:3967:PHE:O	4:S:3970:LEU:HD22	2.15	0.46
4:S:4088:ASN:ND2	4:S:4109:ASP:O	2.48	0.46
5:T:130:ARG:O	5:T:134:MET:HG3	2.15	0.46
6:U:111:LEU:HD13	6:U:150:ILE:HG21	1.97	0.46
6:U:118:ILE:HG23	6:U:130:ARG:HG2	1.96	0.46
6:U:356:PHE:HB3	6:U:422:VAL:HG11	1.96	0.46
4:F:73:LEU:HB2	4:F:78:PHE:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:169:THR:HA	4:F:172:GLU:HG2	1.97	0.46
4:F:380:ASP:HA	4:F:383:PHE:HB2	1.96	0.46
4:F:902:LYS:HG2	4:A:2570:PRO:HG2	1.97	0.46
4:F:1180:GLN:HB2	4:F:1183:CYS:HB3	1.96	0.46
4:F:1504:ASP:CG	4:F:1507:CYS:H	2.23	0.46
4:F:2397:CYS:O	4:F:2401:VAL:HG23	2.16	0.46
4:F:2738:LYS:NZ	7:I:43:DT:OP2	2.47	0.46
4:F:3011:LEU:HD12	4:F:3048:LYS:HE3	1.97	0.46
4:F:3049:LEU:HA	4:F:3052:LEU:HD12	1.97	0.46
4:F:3331:GLY:HA2	4:F:3381:ALA:HA	1.96	0.46
4:F:3568:ILE:O	4:F:3572:ILE:HG13	2.15	0.46
4:F:3871:PHE:HA	4:F:3874:ARG:HD3	1.96	0.46
5:G:52:GLN:HG2	5:G:171:ASN:HB3	1.97	0.46
5:G:130:ARG:O	5:G:133:ASP:N	2.49	0.46
5:G:325:ARG:NH1	6:H:88:PHE:HB3	2.31	0.46
5:G:387:ILE:HG13	5:G:388:LYS:HG2	1.97	0.46
6:H:307:LYS:HE3	6:H:325:LYS:HD3	1.96	0.46
6:H:392:ILE:O	6:H:392:ILE:HG13	2.14	0.46
6:H:397:TYR:HE1	7:I:24:DA:H5"	1.80	0.46
6:H:466:LYS:HE3	6:H:472:THR:HG22	1.97	0.46
4:A:1475:LEU:HB3	4:A:1527:ARG:HG3	1.96	0.46
4:A:2440:TYR:CA	4:A:2443:MET:HE3	2.45	0.46
4:A:2470:ARG:HA	4:A:2473:MET:HE2	1.97	0.46
4:A:2803:ILE:O	4:A:2807:GLN:HG2	2.15	0.46
4:A:3446:VAL:O	4:A:3450:MET:HG3	2.14	0.46
4:A:3533:PHE:O	4:A:3536:SER:OG	2.20	0.46
5:B:65:GLN:O	5:B:65:GLN:NE2	2.48	0.46
5:B:122:PHE:CG	5:B:131:PHE:HB2	2.50	0.46
5:B:334:THR:HG23	6:C:276:TRP:CG	2.51	0.46
5:B:468:LYS:HD2	5:B:518:LEU:HD22	1.97	0.46
6:C:154:LEU:HB3	6:C:215:LEU:HD22	1.98	0.46
4:S:524:TYR:OH	4:S:630:CYS:HB3	2.15	0.46
4:S:1725:GLN:OE1	4:S:1727:ARG:NE	2.35	0.46
4:S:3150:ASN:HB2	4:S:3193:ILE:HD12	1.97	0.46
4:S:3151:LEU:HD23	4:S:3195:GLU:H	1.80	0.46
4:S:3690:PHE:HE1	4:S:3695:LEU:HD12	1.81	0.46
4:S:3726:VAL:HG12	4:S:3738:ILE:HG22	1.96	0.46
4:S:3812:LEU:HA	4:S:3815:LEU:HB3	1.97	0.46
5:T:50:GLU:O	5:T:58:THR:HA	2.15	0.46
5:T:367:PHE:HB3	6:U:433:TYR:CE1	2.51	0.46
6:U:7:LYS:HG2	6:U:51:LYS:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:62:GLU:HB2	3:R:117:PHE:HB2	1.97	0.46
2:M:694:GLY:HA2	5:B:290:ARG:NH1	2.30	0.46
1:O:8:ILE:HD11	1:O:36:LEU:HD11	1.96	0.46
3:Q:157:LEU:HB3	3:R:160:LYS:HZ2	1.80	0.46
3:R:59:LYS:HE3	3:R:67:ALA:HB3	1.98	0.46
4:F:172:GLU:HB3	4:F:220:LEU:HA	1.96	0.46
4:F:227:LEU:O	4:F:231:LEU:HB2	2.16	0.46
4:F:540:MET:O	4:F:544:ILE:HG12	2.15	0.46
4:F:1357:LYS:HZ2	4:F:1410:PRO:HG3	1.80	0.46
4:F:1491:ILE:HD11	4:F:1555:HIS:CE1	2.48	0.46
4:F:1558:TYR:O	4:F:1562:LEU:HG	2.14	0.46
4:F:2223:VAL:HG23	4:F:2234:ASN:HB3	1.98	0.46
4:F:2485:ARG:NH1	4:F:2529:THR:O	2.49	0.46
4:F:3052:LEU:HB3	4:F:3092:LEU:HD21	1.97	0.46
4:F:3447:VAL:HG21	4:F:3479:THR:HG22	1.97	0.46
4:F:3717:VAL:HG23	4:F:3743:HIS:HE1	1.80	0.46
4:F:3895:GLU:HA	4:F:3898:LEU:HB3	1.97	0.46
4:F:3915:HIS:ND1	4:F:3920:ILE:HB	2.29	0.46
5:G:91:GLU:HG3	5:G:139:SER:HA	1.97	0.46
5:G:303:PHE:C	6:H:290:GLN:H	2.23	0.46
5:G:416:GLN:HB2	5:G:431:GLY:H	1.80	0.46
6:H:485:PRO:HG3	6:H:516:LEU:HD21	1.96	0.46
7:I:25:DA:N1	8:J:32:DT:H2'	2.31	0.46
7:I:42:DA:H3'	7:I:43:DT:C2	2.51	0.46
4:A:273:ARG:O	4:A:277:LEU:HG	2.15	0.46
4:A:628:GLU:HA	4:A:668:LYS:HD2	1.97	0.46
4:A:1071:ASN:HB3	4:A:1074:LYS:HB2	1.97	0.46
4:A:2404:ARG:HD3	4:A:2404:ARG:HA	1.71	0.46
4:A:2421:VAL:O	4:A:2425:ARG:HG2	2.14	0.46
4:A:2931:ARG:HA	4:A:2936:TYR:CE1	2.49	0.46
4:A:3775:LEU:HD23	4:A:3987:ALA:CB	2.45	0.46
4:A:3881:ASP:HA	4:A:3969:ASN:HB3	1.97	0.46
5:B:254:ARG:HB2	9:D:33:DA:C1'	2.45	0.46
4:S:55:THR:HG22	4:S:59:PHE:HE2	1.80	0.46
4:S:490:ILE:HD12	4:S:523:THR:HA	1.97	0.46
4:S:901:MET:HG2	4:S:903:PRO:HD3	1.96	0.46
4:S:1057:LYS:HG2	4:S:1099:PHE:HE2	1.81	0.46
4:S:1254:LEU:HD23	4:S:1257:LEU:HD12	1.98	0.46
4:S:1782:PHE:HA	4:S:1785:ILE:HG12	1.96	0.46
4:S:2097:LEU:O	4:S:2101:VAL:HG23	2.16	0.46
4:S:2142:ILE:O	4:S:2146:LEU:HG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2284:ASP:OD1	4:S:2284:ASP:N	2.43	0.46
4:S:3527:GLN:NE2	4:S:3705:TYR:OH	2.38	0.46
4:S:3882:LEU:HD21	4:S:3966:GLN:HG3	1.96	0.46
5:T:101:ASN:OD1	5:T:139:SER:HB3	2.15	0.46
5:T:202:LEU:HD22	5:T:214:SER:HB3	1.98	0.46
6:U:261:ILE:HG13	6:U:340:PHE:HE2	1.80	0.46
3:Y:98:ASP:H	3:Y:104:LEU:HG	1.81	0.46
1:K:140:LYS:HD2	1:L:141:ASN:ND2	2.31	0.46
1:L:15:SER:OG	1:L:16:ILE:N	2.49	0.46
1:N:89:SER:OG	1:N:92:SER:OG	2.29	0.46
1:O:178:LYS:HE2	2:P:787:GLN:HG2	1.98	0.46
3:Q:211:VAL:HG23	3:Q:212:MET:SD	2.56	0.46
3:R:46:HIS:ND1	3:R:48:GLN:OE1	2.48	0.46
3:R:139:LEU:HA	3:R:139:LEU:HD23	1.62	0.46
4:F:50:VAL:O	4:F:54:GLN:HG2	2.15	0.46
4:F:713:GLU:O	4:F:717:LYS:HG2	2.16	0.46
4:F:1086:TYR:CE1	4:F:1133:HIS:HB3	2.51	0.46
4:F:1101:PHE:HZ	4:F:1167:ASP:HB2	1.80	0.46
4:F:2288:TYR:OH	4:F:2294:ILE:N	2.43	0.46
4:F:2546:TYR:HB3	4:F:2842:ARG:CZ	2.46	0.46
4:F:2974:GLU:O	4:F:2978:LYS:N	2.47	0.46
4:F:3481:SER:O	4:F:3484:THR:OG1	2.28	0.46
6:H:91:LEU:HA	6:H:94:ILE:HD12	1.98	0.46
4:A:198:ARG:NH2	5:B:312:LEU:HD12	2.31	0.46
4:A:667:TYR:HD1	4:A:728:SER:HB3	1.79	0.46
4:A:1093:GLU:OE1	4:A:1093:GLU:N	2.46	0.46
4:A:1813:SER:CB	4:A:1865:THR:HA	2.45	0.46
4:A:2269:ASP:HB3	4:A:2311:ARG:HB2	1.96	0.46
4:A:2562:LEU:HA	4:A:2565:MET:CE	2.46	0.46
4:A:3496:ILE:HG21	4:A:3707:GLY:H	1.81	0.46
4:A:3648:GLY:HA2	4:A:3659:PHE:HB3	1.97	0.46
5:B:288:LEU:N	6:C:311:ILE:O	2.49	0.46
5:B:430:PRO:HB2	6:C:438:LEU:HB2	1.98	0.46
5:B:514:MET:HE1	5:B:518:LEU:HD23	1.97	0.46
9:D:36:DA:H4'	9:D:37:DT:OP1	2.16	0.46
4:S:114:VAL:HG22	4:S:119:ARG:HH21	1.81	0.46
4:S:133:LYS:HD2	4:S:136:GLN:HB3	1.97	0.46
4:S:718:MET:HG3	4:S:754:MET:HE1	1.96	0.46
4:S:754:MET:HB2	4:S:757:LYS:HE2	1.96	0.46
4:S:2190:VAL:HA	4:S:2193:ILE:HD12	1.98	0.46
4:S:2436:LEU:HD21	4:S:2461:PHE:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2436:LEU:O	4:S:2476:ILE:HD11	2.15	0.46
4:S:3805:TRP:CH2	4:S:3940:ILE:HA	2.50	0.46
5:T:37:SER:HA	5:T:82:LEU:HB2	1.97	0.46
6:U:238:LYS:HE2	6:U:267:ILE:HD11	1.98	0.46
6:U:312:GLN:H	6:U:324:SER:HA	1.81	0.46
6:U:643:ARG:HB2	6:U:659:LEU:HD13	1.97	0.46
7:V:37:DT:H3	8:W:21:DA:N6	2.13	0.46
3:Y:10:MET:HB3	3:Y:222:THR:HA	1.97	0.46
2:M:665:CYS:HB3	2:M:700:VAL:HG22	1.98	0.46
2:M:877:ALA:O	2:M:881:THR:HG23	2.15	0.46
2:M:879:ARG:HH21	2:M:885:LYS:HB3	1.81	0.46
1:N:103:ASP:HB3	3:Q:70:ALA:HB1	1.98	0.46
1:N:188:LYS:HE3	2:P:768:ASP:HA	1.98	0.46
1:O:73:ALA:HB2	1:O:108:LEU:HG	1.97	0.46
2:P:796:ILE:O	2:P:797:ALA:C	2.58	0.46
3:Q:75:HIS:CD2	3:Q:112:LEU:HD21	2.51	0.46
3:R:4:LEU:O	3:R:8:LEU:HB2	2.15	0.46
4:F:36:ARG:HE	4:F:40:GLN:NE2	2.13	0.46
4:F:317:GLU:O	4:F:320:LEU:HG	2.15	0.46
4:F:538:ASP:OD1	4:F:538:ASP:N	2.49	0.46
4:F:707:PHE:HB3	4:F:740:ILE:HD13	1.98	0.46
4:F:734:LEU:HD21	4:F:768:VAL:HG23	1.98	0.46
4:F:740:ILE:HG13	4:F:741:ILE:HG23	1.97	0.46
4:F:1506:SER:O	4:F:1509:GLN:NE2	2.49	0.46
4:F:2430:GLU:OE1	4:F:2430:GLU:N	2.25	0.46
4:F:2991:LYS:HA	4:F:2994:TRP:CE3	2.49	0.46
4:F:3262:LEU:HD23	4:F:3272:TRP:CE2	2.51	0.46
4:F:3613:MET:HA	4:F:3616:ALA:HB3	1.97	0.46
4:F:3639:GLU:HG3	4:F:3643:HIS:CE1	2.51	0.46
4:F:4121:TRP:HB3	4:F:4124:TRP:HB2	1.96	0.46
5:G:43:ASP:CB	5:G:47:ALA:HB3	2.46	0.46
5:G:93:ASP:OD2	5:G:100:LYS:HA	2.16	0.46
5:G:367:PHE:HB2	6:H:433:TYR:CZ	2.50	0.46
6:H:21:SER:H	6:H:101:GLY:HA3	1.81	0.46
6:H:81:ARG:HD3	6:H:84:MET:SD	2.55	0.46
6:H:316:TYR:N	6:H:319:ASP:O	2.49	0.46
6:H:405:VAL:HG22	6:H:426:PHE:CZ	2.51	0.46
6:H:657:ASN:HA	6:H:660:LYS:CG	2.46	0.46
4:A:213:ARG:HG3	5:B:403:ARG:HH12	1.81	0.46
4:A:215:PRO:O	6:C:549:THR:HA	2.15	0.46
4:A:772:ALA:HB1	4:A:776:TRP:CZ2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:958:MET:N	4:A:958:MET:SD	2.89	0.46
4:A:1457:GLN:OE1	4:A:1460:ARG:NH1	2.49	0.46
4:A:2893:LEU:HB3	4:A:2926:LEU:HD13	1.97	0.46
4:A:3762:GLN:O	4:A:3766:GLN:HG2	2.16	0.46
5:B:44:ALA:O	5:B:138:GLY:HA2	2.15	0.46
5:B:252:ARG:O	5:B:276:LEU:HB2	2.16	0.46
5:B:290:ARG:HD2	6:C:308:GLU:O	2.14	0.46
5:B:334:THR:HG23	6:C:276:TRP:CE2	2.50	0.46
6:C:340:PHE:HD1	6:C:395:TYR:CD1	2.33	0.46
9:D:32:DA:H61	10:E:26:DT:H5'	1.80	0.46
4:S:465:PHE:CD2	4:S:534:LEU:HD22	2.51	0.46
4:S:899:ARG:NH2	4:S:2535:THR:HG23	2.30	0.46
4:S:1046:PRO:O	4:S:1050:GLU:HG2	2.15	0.46
4:S:1149:LYS:HB3	4:S:1149:LYS:HE3	1.75	0.46
4:S:1208:LEU:HA	4:S:1211:VAL:HG12	1.96	0.46
4:S:1271:ILE:O	4:S:1274:ARG:HD2	2.16	0.46
4:S:1348:LEU:HG	4:S:1356:TRP:HB3	1.97	0.46
4:S:1783:ARG:HH22	4:S:1830:HIS:HB2	1.81	0.46
4:S:2484:TYR:O	4:S:2499:PHE:HB2	2.16	0.46
4:S:3995:PRO:HA	4:S:4051:LEU:HD23	1.98	0.46
5:T:353:LEU:HG	6:U:353:ARG:HD2	1.97	0.46
6:U:488:GLN:OE1	6:U:512:ILE:HD12	2.15	0.46
3:X:146:LEU:HD13	3:Y:146:LEU:HB2	1.97	0.46
3:Y:187:ASN:OD1	3:Y:188:SER:N	2.49	0.46
1:K:144:LEU:HB3	1:L:148:ASN:ND2	2.30	0.46
1:K:172:LEU:HD21	1:L:173:GLU:CD	2.40	0.46
2:M:844:GLU:HA	2:M:898:ILE:CD1	2.46	0.46
2:P:761:TYR:CD1	2:P:781:ILE:HG12	2.51	0.46
4:F:101:ALA:H	4:F:102:PRO:HD2	1.80	0.46
4:F:196:LEU:HB3	4:F:200:PHE:CZ	2.50	0.46
4:F:238:MET:HG2	4:F:283:SER:H	1.81	0.46
4:F:979:VAL:HG12	4:F:2591:ILE:HG22	1.98	0.46
4:F:2233:HIS:CE1	4:F:2237:ILE:HD11	2.50	0.46
4:F:3089:LEU:HD13	4:F:3092:LEU:HD23	1.97	0.46
6:H:37:VAL:O	6:H:40:MET:HG3	2.16	0.46
6:H:189:GLY:C	6:H:228:SER:HB3	2.41	0.46
6:H:623:PHE:HB2	6:H:631:TYR:HE2	1.80	0.46
7:I:40:DT:H72	8:J:16:DA:N6	2.22	0.46
8:J:28:DA:O5'	8:J:28:DA:H8	1.98	0.46
4:A:173:LYS:NZ	4:A:219:VAL:HA	2.30	0.46
4:A:1086:TYR:OH	4:A:1137:ILE:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3156:PRO:O	4:A:3160:LEU:HB3	2.15	0.46
4:A:3532:PRO:O	4:A:3536:SER:HB3	2.16	0.46
4:A:4044:ILE:HG13	4:A:4048:LYS:NZ	2.30	0.46
6:C:115:MET:SD	6:C:154:LEU:HD23	2.55	0.46
9:D:31:DA:C4	9:D:32:DA:N6	2.83	0.46
4:S:50:VAL:O	4:S:54:GLN:HG2	2.15	0.46
4:S:382:ASP:OD1	4:S:383:PHE:N	2.48	0.46
4:S:773:LEU:HD23	4:S:858:MET:SD	2.56	0.46
4:S:832:LYS:C	4:S:834:LEU:H	2.24	0.46
4:S:1602:ASP:HA	4:S:1605:PHE:HB3	1.98	0.46
4:S:3413:TYR:CD2	4:S:3450:MET:HA	2.51	0.46
4:S:3483:MET:HA	4:S:3486:GLU:HG3	1.97	0.46
4:S:3891:SER:OG	4:S:3897:PHE:HB2	2.15	0.46
4:S:3913:ILE:HD11	4:S:3988:LEU:HD13	1.97	0.46
5:T:412:ALA:N	5:T:437:LEU:HG	2.31	0.46
7:V:21:DA:C6	7:V:22:DA:H1'	2.50	0.46
3:Y:13:TRP:HE1	3:Y:142:MET:HE3	1.80	0.46
3:Y:107:ARG:HG2	3:Y:120:ASN:HD22	1.81	0.46
1:K:56:ALA:HB2	1:K:66:TYR:CD2	2.50	0.46
1:L:65:LYS:HG3	1:L:69:GLU:HG2	1.98	0.46
1:L:173:GLU:HG2	2:M:796:ILE:HD13	1.98	0.46
1:N:59:MET:HE1	1:N:61:MET:HB2	1.98	0.46
1:N:176:LEU:HD12	1:O:176:LEU:HD12	1.97	0.46
2:P:793:ALA:HA	2:P:814:ARG:HD2	1.97	0.46
3:Q:24:LEU:HD22	3:R:140:MET:CE	2.46	0.46
4:F:189:MET:O	4:F:193:ALA:HB2	2.15	0.46
4:F:356:ASN:O	4:F:360:SER:N	2.40	0.46
4:F:472:GLY:O	4:F:475:LEU:HB3	2.16	0.46
4:F:899:ARG:CZ	4:F:2568:MET:HB2	2.46	0.46
4:F:1238:GLN:HE21	4:F:1296:PHE:HE1	1.64	0.46
4:F:1301:ILE:HD12	4:F:1334:LYS:HG2	1.97	0.46
4:F:1766:LEU:O	4:F:1772:HIS:HE1	1.98	0.46
4:F:1881:TYR:CG	4:F:1951:VAL:HA	2.51	0.46
4:F:2197:THR:OG1	4:F:2722:ARG:NH1	2.48	0.46
4:F:2229:ALA:O	4:F:2233:HIS:N	2.48	0.46
4:F:2347:LYS:HG3	4:F:2348:GLN:N	2.31	0.46
4:F:2446:LEU:HD22	4:F:2454:LEU:HD22	1.98	0.46
4:F:2953:THR:HA	4:F:2972:TYR:HE1	1.81	0.46
4:F:3243:ILE:HD13	4:F:3262:LEU:HD11	1.98	0.46
4:A:394:GLN:HE21	4:A:1741:ASP:CG	2.24	0.46
4:A:1038:LYS:HG2	4:A:1042:LYS:HD3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1372:LEU:HD22	4:A:1402:LEU:HD12	1.97	0.46
4:A:1772:HIS:CE1	4:A:1773:VAL:HG13	2.51	0.46
4:A:2356:MET:HE2	4:A:2359:LYS:HB2	1.98	0.46
4:A:2871:LEU:HD12	4:A:2892:LEU:HD21	1.98	0.46
4:A:3499:ILE:HA	4:A:3502:MET:HB2	1.98	0.46
4:A:3500:SER:HB2	4:A:3762:GLN:NE2	2.31	0.46
4:A:4080:VAL:HG21	4:A:4119:ARG:HD2	1.98	0.46
5:B:400:TYR:O	5:B:408:PRO:HA	2.15	0.46
9:D:29:DA:H5'	10:E:28:DA:N6	2.30	0.46
4:S:391:ARG:HB3	4:S:1734:PRO:HG2	1.98	0.46
4:S:1104:LEU:HA	4:S:1131:ILE:HG21	1.98	0.46
4:S:1783:ARG:NH2	4:S:1826:THR:O	2.49	0.46
4:S:1864:ASP:OD1	4:S:1864:ASP:N	2.46	0.46
4:S:2094:MET:CE	4:S:2148:LYS:HB3	2.46	0.46
4:S:2526:SER:HA	4:S:2531:LEU:HD12	1.97	0.46
4:S:3331:GLY:HA2	4:S:3334:TYR:CD2	2.51	0.46
4:S:4050:LYS:HG2	4:S:4059:ILE:HG23	1.97	0.46
5:T:106:GLN:HE22	5:T:115:ARG:HB3	1.81	0.46
5:T:358:LYS:HD3	5:T:358:LYS:HA	1.66	0.46
5:T:423:GLN:HG2	5:T:425:ILE:H	1.80	0.46
6:U:7:LYS:HD3	6:U:125:LYS:HE2	1.98	0.46
7:V:44:DG:H3'	7:V:45:DG:H3'	1.98	0.46
1:K:181:ILE:HG12	1:K:185:ASN:OD1	2.16	0.46
1:L:86:PHE:HA	1:L:97:PHE:HB3	1.98	0.46
1:L:94:TYR:CZ	1:L:96:PHE:HB3	2.51	0.46
2:M:818:VAL:HG13	2:M:862:HIS:O	2.16	0.46
2:P:838:LEU:HD21	2:P:867:GLU:HG2	1.98	0.46
3:Q:18:LEU:HG	3:Q:20:GLU:H	1.81	0.46
3:R:11:GLN:HB3	3:R:134:HIS:CE1	2.51	0.46
4:F:54:GLN:HB3	4:F:3097:ASP:HB2	1.98	0.46
4:F:902:LYS:HE3	4:A:2570:PRO:HG2	1.97	0.46
4:F:1450:ALA:O	4:F:1453:SER:OG	2.26	0.46
4:F:1713:VAL:HA	4:F:1716:GLN:HG2	1.97	0.46
4:F:1769:GLU:HB2	4:F:1772:HIS:HB3	1.98	0.46
4:F:1794:GLN:O	4:F:1798:LEU:HG	2.15	0.46
4:F:2589:TYR:CB	4:F:2777:HIS:HB2	2.45	0.46
4:F:2855:VAL:O	4:F:2859:GLN:HG3	2.16	0.46
4:F:2894:GLU:HG3	4:F:3973:PRO:HG2	1.97	0.46
4:F:2980:ASP:N	4:F:2980:ASP:OD1	2.47	0.46
4:F:3563:ASP:C	4:F:3564:GLN:HG3	2.41	0.46
5:G:83:LEU:N	5:G:109:ASP:O	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:407:PRO:HG3	6:H:486:ARG:HD3	1.97	0.46
5:G:482:VAL:O	5:G:485:GLN:HG2	2.15	0.46
5:G:533:ASP:HA	6:H:250:ARG:NH2	2.29	0.46
6:H:387:LEU:HB2	6:H:389:MET:HG2	1.98	0.46
6:H:515:MET:SD	6:H:516:LEU:HD12	2.56	0.46
6:H:519:PRO:O	6:H:523:THR:HG23	2.16	0.46
4:A:221:ALA:O	4:A:225:LYS:HG2	2.16	0.46
4:A:736:LEU:HB2	4:A:741:ILE:HD11	1.98	0.46
4:A:1400:VAL:HG12	4:A:1404:LYS:HZ2	1.81	0.46
4:A:2094:MET:SD	4:A:2148:LYS:HD2	2.56	0.46
4:A:2515:PRO:HA	4:A:2518:GLN:HE21	1.80	0.46
4:A:2522:ARG:NH1	4:A:2564:GLU:HG3	2.31	0.46
4:A:2556:SER:O	4:A:2559:THR:OG1	2.32	0.46
4:A:3609:MET:HA	4:A:3612:ARG:HG3	1.98	0.46
4:A:3867:THR:HG21	4:A:4119:ARG:HG2	1.98	0.46
5:B:88:TYR:HA	5:B:102:ILE:HA	1.98	0.46
5:B:89:GLY:HA2	5:B:141:TYR:CE1	2.51	0.46
5:B:187:ARG:NH1	5:B:219:ASP:OD2	2.48	0.46
6:C:42:VAL:O	6:C:46:VAL:HG13	2.15	0.46
4:S:76:ILE:HA	4:S:79:ARG:HB2	1.96	0.46
4:S:179:GLY:HA3	4:S:230:LEU:HD13	1.98	0.46
4:S:754:MET:HA	4:S:757:LYS:HB3	1.98	0.46
4:S:756:PHE:HD2	4:S:795:CYS:HB2	1.79	0.46
4:S:1108:MET:HE3	4:S:1183:CYS:SG	2.56	0.46
4:S:1474:ASP:N	4:S:1474:ASP:OD1	2.48	0.46
4:S:1731:PRO:HA	4:S:1736:PHE:CD2	2.51	0.46
4:S:3000:ASP:O	4:S:3004:HIS:ND1	2.49	0.46
4:S:3335:ARG:HE	4:S:3339:ASN:HD21	1.64	0.46
4:S:3701:ILE:HD13	4:S:3748:HIS:CG	2.51	0.46
4:S:4046:TYR:O	4:S:4050:LYS:HG3	2.15	0.46
5:T:398:CYS:N	5:T:411:VAL:O	2.48	0.46
6:U:598:PHE:HZ	6:U:616:LEU:HG	1.81	0.46
7:V:19:DC:H4'	8:W:37:DG:C2	2.51	0.46
1:K:21:GLN:NE2	1:K:126:LEU:HA	2.30	0.46
1:K:150:ARG:HA	1:K:153:ARG:HE	1.81	0.46
1:L:178:LYS:HZ3	2:M:786:GLU:H	1.61	0.46
2:P:654:LYS:HZ1	2:P:686:GLY:HA2	1.81	0.46
2:P:840:ILE:O	2:P:844:GLU:HG3	2.16	0.46
3:Q:153:LEU:HB3	3:R:157:LEU:HD21	1.98	0.46
3:Q:176:ARG:HH21	3:Q:179:LEU:HD12	1.81	0.46
3:Q:193:PHE:HD1	3:Q:194:MET:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:139:LEU:HA	3:R:142:MET:HG3	1.98	0.46
4:F:73:LEU:H	4:F:82:ARG:HH22	1.62	0.46
4:F:148:LYS:O	4:F:152:LEU:HG	2.16	0.46
4:F:186:PRO:O	4:F:190:ILE:HG12	2.16	0.46
4:F:447:PRO:HD3	4:F:527:TYR:HE1	1.80	0.46
4:F:725:LEU:O	4:F:729:CYS:N	2.47	0.46
4:F:1035:GLU:HG3	4:F:1038:LYS:HZ1	1.81	0.46
4:F:1136:ARG:C	4:F:1140:LYS:HZ3	2.23	0.46
4:F:1465:HIS:HB3	4:F:1470:SER:HG	1.81	0.46
4:F:1621:THR:C	4:F:1625:HIS:HD1	2.24	0.46
4:F:1747:LEU:HD21	4:F:1778:PHE:CD1	2.51	0.46
4:F:1782:PHE:HA	4:F:1785:ILE:HG12	1.97	0.46
4:F:2091:HIS:HB2	4:F:2094:MET:HG3	1.98	0.46
4:F:2216:LEU:O	4:F:2219:LEU:HG	2.15	0.46
4:F:2231:PHE:O	4:F:2235:LEU:HG	2.15	0.46
4:F:2260:PHE:O	4:F:2270:ASN:HB2	2.15	0.46
4:F:2263:LYS:HE2	4:F:2263:LYS:HB2	1.41	0.46
4:F:2319:ALA:HA	4:F:2322:VAL:HG22	1.98	0.46
4:F:2383:PHE:O	4:F:2418:LYS:HE3	2.16	0.46
5:G:41:LEU:O	5:G:168:LEU:HA	2.16	0.46
5:G:69:SER:HA	5:G:72:ILE:HD12	1.97	0.46
5:G:74:LYS:HB3	5:G:111:PRO:HG3	1.98	0.46
5:G:261:LEU:HA	5:G:345:LEU:HB2	1.98	0.46
5:G:318:ARG:HE	6:H:278:VAL:HG13	1.81	0.46
6:H:46:VAL:O	6:H:49:GLU:HG2	2.16	0.46
6:H:234:LEU:HD23	6:H:488:GLN:HB2	1.97	0.46
6:H:270:GLU:HG3	6:H:273:LYS:NZ	2.31	0.46
6:H:366:ALA:HA	6:H:377:LEU:HD23	1.97	0.46
8:J:26:DT:H1'	8:J:27:DT:C6	2.51	0.46
4:A:859:LEU:HB3	4:A:867:ASN:CG	2.41	0.46
4:A:1016:GLY:HA3	4:A:1029:CYS:SG	2.55	0.46
4:A:1579:VAL:HG13	4:A:1625:HIS:NE2	2.31	0.46
4:A:1828:LEU:O	4:A:1883:ARG:NH1	2.49	0.46
4:A:1851:LEU:HD23	4:A:1870:LYS:HG2	1.97	0.46
4:A:2244:CYS:HG	4:A:2245:TRP:CG	2.34	0.46
4:A:2798:ALA:O	4:A:2805:ALA:HB2	2.16	0.46
4:A:2931:ARG:NH2	4:A:2997:ALA:HA	2.29	0.46
4:A:3293:CYS:O	4:A:3297:VAL:HG22	2.16	0.46
4:A:3772:ASN:O	4:A:3776:ALA:HB2	2.16	0.46
5:B:269:ILE:HA	5:B:375:VAL:HG21	1.98	0.46
5:B:329:LEU:HG	6:C:497:ARG:CZ	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:259:GLN:O	4:S:305:ASN:ND2	2.49	0.46
4:S:262:LEU:O	7:V:40:DT:H4'	2.16	0.46
4:S:540:MET:O	4:S:544:ILE:HG12	2.16	0.46
4:S:718:MET:HE1	4:S:730:LEU:N	2.31	0.46
4:S:932:GLU:HG3	4:S:2775:TYR:HE2	1.79	0.46
4:S:1818:SER:O	4:S:1822:ARG:NE	2.42	0.46
4:S:2233:HIS:ND1	4:S:2731:ARG:HG3	2.31	0.46
4:S:2532:PRO:HG2	4:S:2537:ASP:HB3	1.99	0.46
4:S:2873:PRO:HG3	4:S:2922:ARG:CZ	2.46	0.46
4:S:3786:LEU:HD11	4:S:3983:ILE:O	2.16	0.46
5:T:166:ILE:HG12	5:T:198:ILE:HG21	1.98	0.46
5:T:179:ASP:OD2	5:T:182:LYS:N	2.49	0.46
5:T:383:SER:HB2	6:U:438:LEU:HD11	1.97	0.46
5:T:462:MET:HG2	6:U:257:LEU:HD11	1.98	0.46
6:U:33:GLN:NE2	6:U:164:PHE:O	2.38	0.46
6:U:345:PHE:HB3	6:U:389:MET:CE	2.46	0.46
6:U:409:PHE:HB3	6:U:420:VAL:HG21	1.97	0.46
6:U:440:ASN:OD1	6:U:441:SER:N	2.49	0.46
1:K:45:GLY:HA2	1:K:114:GLU:OE1	2.17	0.45
2:M:660:GLU:HG3	2:M:686:GLY:HA3	1.97	0.45
2:M:720:VAL:HG23	2:M:745:HIS:HD2	1.80	0.45
2:M:767:ILE:HG21	2:M:773:GLN:NE2	2.31	0.45
1:O:29:GLU:HB3	1:O:52:ILE:HG21	1.97	0.45
1:O:121:GLU:HA	1:O:124:ARG:HH11	1.81	0.45
1:O:144:LEU:O	1:O:148:ASN:HB3	2.16	0.45
2:P:752:GLU:HG3	2:P:756:ARG:NH2	2.31	0.45
4:F:98:GLN:HE21	4:F:101:ALA:HB2	1.80	0.45
4:F:332:GLU:HA	4:F:334:HIS:CE1	2.51	0.45
4:F:528:VAL:HG11	4:F:632:GLU:CB	2.47	0.45
4:F:681:LYS:NZ	4:F:683:PHE:HB2	2.31	0.45
4:F:1157:PHE:CZ	4:F:1167:ASP:HB3	2.50	0.45
4:F:1936:ARG:HD3	4:F:1939:LEU:HD12	1.98	0.45
4:F:2350:LYS:HA	4:F:2354:ASN:CG	2.40	0.45
4:F:2415:LEU:HB2	4:F:2420:PHE:CB	2.44	0.45
4:F:2754:GLU:O	4:F:2758:LYS:NZ	2.41	0.45
4:F:2804:ILE:HG13	4:F:2805:ALA:N	2.30	0.45
4:F:3319:ASN:ND2	4:F:3321:LEU:HB2	2.31	0.45
5:G:194:ARG:NH2	5:G:200:LEU:H	2.11	0.45
4:A:139:ARG:HH21	4:A:182:GLY:H	1.64	0.45
4:A:184:VAL:HG13	4:A:186:PRO:HD3	1.97	0.45
4:A:469:ALA:HA	4:A:475:LEU:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:569:VAL:O	4:A:573:LEU:HG	2.16	0.45
4:A:583:LEU:HD12	4:A:612:LEU:HB3	1.97	0.45
4:A:865:GLN:N	4:A:3169:PRO:HG3	2.31	0.45
4:A:898:PHE:HB2	4:A:901:MET:O	2.15	0.45
4:A:923:ASP:OD2	4:A:925:GLN:HB2	2.16	0.45
4:A:1437:TYR:OH	4:A:1485:SER:O	2.33	0.45
4:A:1876:ILE:O	4:A:1880:MET:HG2	2.16	0.45
4:A:2154:GLU:OE1	4:A:2195:SER:OG	2.33	0.45
4:A:2510:LEU:O	4:A:2518:GLN:HB2	2.17	0.45
4:A:2840:PHE:HA	4:A:2843:PHE:CD2	2.51	0.45
4:A:3571:PHE:CE2	4:A:3800:LEU:HD12	2.51	0.45
4:A:3999:THR:O	4:A:4003:ASP:HB2	2.15	0.45
5:B:214:SER:O	5:B:218:ARG:HG2	2.16	0.45
5:B:427:VAL:HG12	5:B:428:THR:HG23	1.98	0.45
6:C:340:PHE:CD1	6:C:362:LEU:HD22	2.50	0.45
4:S:881:LYS:HG3	4:S:883:TYR:HE1	1.80	0.45
4:S:994:TRP:HA	4:S:997:ASN:HB2	1.97	0.45
4:S:996:THR:HA	4:S:1001:PHE:CE1	2.51	0.45
4:S:1026:ARG:NE	4:S:1122:GLY:O	2.49	0.45
4:S:1049:GLN:O	4:S:1055:ASN:HB3	2.16	0.45
4:S:1075:ARG:HD2	4:S:1113:LEU:HB3	1.98	0.45
4:S:1748:ASP:OD1	4:S:1749:ALA:N	2.49	0.45
4:S:2933:ILE:HD12	4:S:3123:GLN:HE21	1.80	0.45
4:S:3052:LEU:HD21	4:S:3059:GLN:N	2.23	0.45
4:S:3239:LYS:HD3	4:S:3261:GLU:OE2	2.16	0.45
4:S:3831:ASP:HB3	4:S:3832:PRO:HD3	1.98	0.45
5:T:41:LEU:HB2	5:T:167:MET:O	2.15	0.45
5:T:482:VAL:HG22	6:U:332:LYS:NZ	2.29	0.45
6:U:115:MET:HA	6:U:118:ILE:HD12	1.97	0.45
6:U:297:LEU:N	6:U:303:THR:O	2.43	0.45
6:U:621:GLU:O	6:U:669:LYS:NZ	2.48	0.45
7:V:30:DA:H4'	8:W:30:DT:H4'	1.98	0.45
3:X:139:LEU:O	3:X:142:MET:HG2	2.16	0.45
2:M:818:VAL:HG13	2:M:862:HIS:HB2	1.98	0.45
1:O:5:ILE:HG13	1:O:21:GLN:HG3	1.98	0.45
4:F:175:TYR:OH	4:F:200:PHE:HA	2.16	0.45
4:F:424:LEU:HD11	4:F:427:VAL:HA	1.98	0.45
4:F:652:GLU:O	4:F:656:GLN:HG2	2.17	0.45
4:F:667:TYR:O	4:F:671:SER:HB3	2.17	0.45
4:F:1465:HIS:NE2	4:F:1521:PHE:HA	2.32	0.45
4:F:1468:LEU:HD21	4:F:1476:HIS:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1639:LEU:CD2	4:F:1643:MET:HE1	2.43	0.45
4:F:1690:GLY:O	4:F:1694:THR:HG23	2.16	0.45
4:F:1779:GLN:O	4:F:1783:ARG:HG2	2.15	0.45
4:F:1862:THR:N	4:F:1864:ASP:OD1	2.49	0.45
4:F:2497:GLU:HA	4:F:2500:LYS:HE2	1.99	0.45
4:F:2919:ASP:C	4:F:2923:TRP:HD1	2.24	0.45
4:F:3602:ASN:HA	4:F:3606:ILE:HB	1.98	0.45
4:F:3717:VAL:HG23	4:F:3743:HIS:CE1	2.52	0.45
5:G:115:ARG:NH1	6:H:318:SER:OG	2.49	0.45
6:H:262:ALA:H	6:H:368:ARG:NH1	2.12	0.45
6:H:406:GLY:HA3	6:H:421:TYR:CZ	2.51	0.45
4:A:214:GLU:O	6:C:549:THR:OG1	2.29	0.45
4:A:1604:SER:O	4:A:1608:ARG:N	2.49	0.45
4:A:1805:PHE:HD1	4:A:1819:PHE:HB2	1.82	0.45
4:A:1900:PHE:HB3	4:A:1909:ASN:HB3	1.98	0.45
4:A:2461:PHE:O	4:A:2473:MET:HE1	2.17	0.45
4:A:2813:PHE:O	4:A:2817:LEU:HG	2.16	0.45
4:A:2921:LEU:HA	4:A:2924:VAL:HG12	1.97	0.45
4:A:3894:PRO:C	4:A:3896:ALA:H	2.24	0.45
5:B:414:VAL:HB	5:B:433:GLN:HG3	1.98	0.45
5:B:438:PRO:HD2	6:C:480:THR:HG22	1.97	0.45
5:B:445:LYS:HB2	6:C:266:SER:HB2	1.98	0.45
9:D:31:DA:H1'	9:D:32:DA:H62	1.81	0.45
9:D:40:DT:H2'	10:E:16:DA:N1	2.31	0.45
4:S:670:LEU:HB3	4:S:732:PHE:CD1	2.51	0.45
4:S:756:PHE:HD1	4:S:765:LEU:HG	1.82	0.45
4:S:1115:HIS:ND1	4:S:1183:CYS:HB2	2.31	0.45
4:S:2307:MET:HA	4:S:2316:TYR:HA	1.98	0.45
4:S:2425:ARG:HD3	4:S:2457:PRO:HB3	1.98	0.45
4:S:2745:ARG:O	8:W:13:DA:H2''	2.16	0.45
4:S:3037:GLN:CG	4:S:3044:MET:HG3	2.46	0.45
4:S:3137:GLU:HB3	4:S:3185:ASN:HD22	1.81	0.45
4:S:3421:ASP:CG	4:S:3425:ARG:HE	2.24	0.45
4:S:4055:ASN:HD22	4:S:4058:VAL:HG23	1.81	0.45
5:T:358:LYS:HG2	6:U:353:ARG:NE	2.29	0.45
6:U:40:MET:HB3	6:U:231:LEU:HD23	1.98	0.45
6:U:645:GLU:O	6:U:648:LYS:HB2	2.16	0.45
1:K:28:LEU:HB2	1:K:71:ARG:CZ	2.45	0.45
1:K:59:MET:HE2	1:K:61:MET:CE	2.43	0.45
1:L:88:PHE:HA	1:L:95:PHE:HA	1.99	0.45
1:L:99:LYS:HE3	1:L:108:LEU:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:702:ALA:O	2:M:723:PRO:HD3	2.16	0.45
1:O:33:VAL:HG13	1:O:46:THR:HB	1.98	0.45
3:R:16:LEU:O	3:R:22:SER:OG	2.29	0.45
3:R:27:VAL:HG23	3:R:35:ALA:C	2.41	0.45
3:R:218:TYR:HD1	3:R:219:MET:HE2	1.80	0.45
4:F:127:ALA:O	4:F:130:LEU:HB3	2.16	0.45
4:F:458:CYS:O	4:F:462:VAL:HG13	2.16	0.45
4:F:701:TYR:HA	4:F:704:PHE:CD2	2.51	0.45
4:F:1013:ILE:O	4:F:1017:ILE:HB	2.17	0.45
4:F:1635:LYS:HD2	4:F:1635:LYS:HA	1.66	0.45
4:F:1816:ARG:HA	4:F:1816:ARG:HD3	1.81	0.45
4:F:1878:ASP:HB3	4:F:1947:CYS:HA	1.99	0.45
4:F:2216:LEU:HD12	4:F:2219:LEU:HD11	1.98	0.45
4:F:2357:GLU:HA	4:F:2360:PHE:CD2	2.52	0.45
4:F:2404:ARG:NH1	4:F:2406:GLU:OE2	2.49	0.45
4:F:2549:LYS:HA	4:F:2848:PHE:HZ	1.81	0.45
4:F:2792:THR:N	4:F:2793:PRO:HD2	2.31	0.45
4:F:3457:ASN:N	4:F:3457:ASN:OD1	2.49	0.45
4:F:3499:ILE:HD11	4:F:3529:ILE:HG13	1.97	0.45
4:F:3738:ILE:HG13	4:F:3750:PHE:HB2	1.98	0.45
5:G:259:LEU:HD23	5:G:259:LEU:HA	1.81	0.45
5:G:318:ARG:HH21	6:H:278:VAL:HG13	1.81	0.45
5:G:446:MET:HE2	6:H:266:SER:HB3	1.97	0.45
4:A:935:HIS:O	4:A:938:VAL:HG12	2.17	0.45
4:A:1572:LEU:HD23	4:A:1575:LEU:HD21	1.98	0.45
4:A:2358:ASP:N	4:A:2358:ASP:OD1	2.44	0.45
4:A:2791:ILE:O	4:A:2795:GLN:N	2.38	0.45
4:A:3100:LYS:O	4:A:3103:ILE:HG22	2.16	0.45
4:A:3584:LEU:HD12	4:A:3617:LEU:HD21	1.98	0.45
4:A:3923:ARG:HG3	4:A:3961:PHE:HA	1.97	0.45
4:S:56:SER:HA	4:S:59:PHE:CD2	2.51	0.45
4:S:304:THR:HG22	4:S:305:ASN:N	2.30	0.45
4:S:628:GLU:OE2	4:S:668:LYS:HD2	2.16	0.45
4:S:1204:PRO:HG2	4:S:1206:LEU:HB2	1.98	0.45
4:S:1337:VAL:O	4:S:1341:ILE:HG23	2.16	0.45
4:S:1342:MET:O	4:S:1346:THR:HG23	2.16	0.45
4:S:2580:PRO:HG2	4:S:2582:SER:O	2.16	0.45
4:S:3145:ILE:HG12	4:S:3189:PHE:HE1	1.82	0.45
4:S:3457:ASN:HB2	4:S:3709:GLY:HA3	1.99	0.45
4:S:3931:ALA:HA	4:S:3935:GLY:HA2	1.99	0.45
5:T:261:LEU:H	5:T:271:VAL:HG22	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:458:GLN:O	5:T:462:MET:HE2	2.16	0.45
1:L:43:TRP:HA	1:L:115:LYS:HA	1.97	0.45
1:L:66:TYR:HB2	3:Y:113:SER:O	2.17	0.45
1:L:169:LYS:HE3	1:L:169:LYS:HB3	1.78	0.45
2:P:654:LYS:HB2	2:P:684:GLU:O	2.16	0.45
2:P:721:VAL:HB	2:P:742:PHE:HD2	1.81	0.45
3:Q:166:ASP:O	3:Q:169:GLU:HG2	2.17	0.45
3:R:8:LEU:HG	3:R:37:LEU:HD22	1.98	0.45
3:R:34:TYR:HE1	3:R:54:VAL:HG21	1.82	0.45
3:R:78:ASN:HB3	3:R:85:LYS:HA	1.98	0.45
3:R:139:LEU:HD21	3:R:210:PHE:CE2	2.52	0.45
4:F:70:ARG:HD3	4:F:71:LYS:HD3	1.98	0.45
4:F:295:GLU:OE1	4:F:295:GLU:N	2.49	0.45
4:F:297:LEU:HD21	4:F:319:PHE:CD2	2.52	0.45
4:F:894:PHE:HB3	4:F:907:LEU:HD21	1.98	0.45
4:F:2471:GLU:HA	4:F:2474:TYR:CD2	2.51	0.45
4:F:2965:TYR:CD2	4:F:3253:SER:HB3	2.52	0.45
4:F:3606:ILE:HA	4:F:3609:MET:HG3	1.97	0.45
4:F:3870:SER:HA	4:F:3873:LYS:HE2	1.99	0.45
6:H:27:ILE:HD11	6:H:227:PHE:HE2	1.80	0.45
6:H:162:GLN:N	6:H:219:ASP:OD2	2.46	0.45
8:J:25:DT:H3'	8:J:26:DT:N3	2.32	0.45
4:A:651:TYR:O	4:A:655:LEU:HG	2.17	0.45
4:A:771:ASN:HD21	4:A:854:ARG:NH2	2.13	0.45
4:A:776:TRP:HB3	4:A:780:ILE:HD12	1.97	0.45
4:A:993:HIS:CD2	4:A:1039:TRP:CE2	3.04	0.45
4:A:1038:LYS:HE3	4:A:1039:TRP:CD1	2.51	0.45
4:A:1181:THR:HG22	4:A:1261:LEU:HD13	1.98	0.45
4:A:1881:TYR:HA	4:A:1887:ASP:CG	2.41	0.45
4:A:2572:TYR:O	4:A:2787:HIS:HB2	2.16	0.45
4:A:3236:PHE:HE2	4:A:3275:SER:HB3	1.81	0.45
4:A:3775:LEU:HD22	4:A:3913:ILE:HG21	1.97	0.45
5:B:65:GLN:HG3	5:B:243:LEU:HD22	1.99	0.45
5:B:148:TRP:CD1	5:B:152:ASN:HD21	2.33	0.45
5:B:285:PRO:HB3	6:C:314:PHE:CZ	2.51	0.45
4:S:125:ILE:H	4:S:125:ILE:HD12	1.81	0.45
4:S:131:LEU:HD21	4:S:174:VAL:HG12	1.99	0.45
4:S:172:GLU:C	4:S:174:VAL:H	2.24	0.45
4:S:373:CYS:HB3	4:S:381:VAL:HG22	1.99	0.45
4:S:983:LEU:HA	4:S:2591:ILE:HD12	1.98	0.45
4:S:1458:LEU:HB3	4:S:1463:LEU:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2132:LYS:HD3	4:S:2135:ASN:ND2	2.32	0.45
4:S:2571:ASP:O	4:S:2787:HIS:ND1	2.50	0.45
4:S:3107:ILE:O	4:S:3111:MET:HG2	2.17	0.45
4:S:3128:LYS:O	4:S:3132:VAL:HG23	2.16	0.45
4:S:3465:PHE:O	4:S:3469:LEU:HG	2.16	0.45
5:T:492:ALA:HB2	5:T:500:PRO:HA	1.99	0.45
1:K:36:LEU:HD23	1:K:113:LEU:HD11	1.99	0.45
1:K:137:ASN:HB2	1:L:134:ILE:O	2.15	0.45
1:K:180:PHE:HE2	1:L:176:LEU:HB3	1.81	0.45
2:M:875:PHE:O	2:M:879:ARG:HG3	2.16	0.45
1:N:28:LEU:HD21	1:N:70:LEU:HB2	1.98	0.45
1:N:100:ASN:OD1	1:N:106:PHE:N	2.48	0.45
2:P:865:ILE:HG12	2:P:889:LEU:O	2.16	0.45
3:R:43:GLN:HB3	3:R:45:TRP:CH2	2.51	0.45
3:R:197:LYS:HA	3:R:200:GLU:HG2	1.99	0.45
4:F:38:LEU:HD21	4:F:84:GLU:C	2.41	0.45
4:F:179:GLY:C	4:F:230:LEU:HD23	2.41	0.45
4:F:993:HIS:CE1	4:F:1035:GLU:HG3	2.52	0.45
4:F:1108:MET:HE2	4:F:1171:TRP:HH2	1.79	0.45
4:F:1342:MET:SD	4:F:1402:LEU:HD22	2.56	0.45
4:F:2346:ALA:O	4:F:2349:LEU:HB2	2.16	0.45
4:F:2422:GLN:O	4:F:2425:ARG:HB3	2.15	0.45
4:F:2825:THR:HG22	4:F:2828:GLU:HG2	1.98	0.45
4:F:2869:LEU:C	4:F:2899:ARG:HH22	2.24	0.45
4:F:2959:ALA:HB1	4:F:2964:ASP:HB3	1.99	0.45
4:F:3515:GLN:HB3	4:F:3554:PHE:CE2	2.51	0.45
4:F:3571:PHE:CG	4:F:3699:LEU:HD13	2.52	0.45
4:F:3988:LEU:HA	4:F:3991:PHE:CD2	2.52	0.45
5:G:75:ILE:HG13	5:G:111:PRO:HB2	1.99	0.45
5:G:514:MET:N	5:G:514:MET:SD	2.83	0.45
6:H:594:PRO:O	6:H:597:ASN:HB3	2.17	0.45
7:I:41:DT:H1'	7:I:42:DA:N7	2.30	0.45
4:A:55:THR:HA	4:A:58:VAL:HG22	1.98	0.45
4:A:896:VAL:HG23	4:A:903:PRO:O	2.16	0.45
4:A:1143:VAL:O	4:A:1147:LYS:HD3	2.17	0.45
4:A:1527:ARG:HA	4:A:1527:ARG:HD2	1.77	0.45
4:A:2824:LYS:HB3	4:A:2829:LYS:HE3	1.99	0.45
4:A:3959:MET:HG2	4:A:4124:TRP:CE2	2.52	0.45
5:B:142:SER:HB3	5:B:145:GLU:HG2	1.98	0.45
6:C:43:GLN:HA	6:C:46:VAL:HG22	1.98	0.45
4:S:356:ASN:HA	4:S:359:LEU:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1064:TYR:HD2	4:S:1152:ARG:NH1	2.15	0.45
4:S:1338:VAL:O	4:S:1341:ILE:HG12	2.17	0.45
4:S:1515:LEU:HD13	4:S:1566:THR:OG1	2.16	0.45
4:S:1672:PHE:CZ	4:S:1676:ILE:HD11	2.51	0.45
4:S:2541:ALA:O	4:S:2545:LEU:N	2.39	0.45
4:S:2555:LEU:HD11	4:S:2853:PRO:C	2.42	0.45
4:S:2935:GLU:CD	4:S:2938:VAL:H	2.24	0.45
4:S:3458:SER:O	4:S:3462:ARG:HG3	2.17	0.45
5:T:254:ARG:O	8:W:26:DT:H5'	2.17	0.45
5:T:358:LYS:HG3	6:U:356:PHE:HD2	1.82	0.45
6:U:132:ILE:HD11	6:U:161:LEU:HB2	1.99	0.45
7:V:27:DC:N4	8:W:31:DT:H3	2.15	0.45
3:X:214:LEU:HD21	3:Y:147:GLN:HB2	1.99	0.45
1:K:136:GLU:N	1:L:137:ASN:CB	2.79	0.45
1:K:137:ASN:H	1:L:136:GLU:H	1.65	0.45
4:F:73:LEU:HB2	4:F:78:PHE:CD2	2.52	0.45
4:F:197:PHE:HE1	4:F:232:CYS:HG	1.63	0.45
4:F:1742:CYS:HB3	4:F:1746:PHE:CZ	2.52	0.45
4:F:1878:ASP:N	4:F:1878:ASP:OD1	2.47	0.45
4:F:2425:ARG:HH12	4:F:2457:PRO:HA	1.82	0.45
4:F:3001:CYS:HA	4:F:3004:HIS:ND1	2.32	0.45
4:F:3045:ILE:HG13	4:F:3046:ARG:N	2.30	0.45
4:F:3262:LEU:HD13	4:F:3276:TRP:HA	1.98	0.45
4:F:3327:ASN:O	4:F:3384:HIS:HB3	2.16	0.45
4:F:3618:GLY:O	4:F:3638:LYS:HG2	2.17	0.45
4:F:3627:ALA:H	4:F:3677:PRO:HB3	1.82	0.45
4:F:3811:THR:OG1	4:F:3926:ASN:O	2.34	0.45
5:G:287:LYS:O	5:G:295:PRO:HA	2.16	0.45
5:G:320:GLN:HB3	5:G:322:TYR:CD2	2.51	0.45
5:G:413:LEU:HB3	5:G:432:PHE:CD1	2.52	0.45
5:G:465:ILE:HD11	5:G:525:PHE:HD2	1.82	0.45
5:G:467:GLU:HB2	6:H:387:LEU:HD13	1.99	0.45
6:H:168:SER:HB2	6:H:192:PHE:H	1.81	0.45
4:A:126:PRO:HA	4:A:129:ASP:HB2	1.98	0.45
4:A:466:LEU:HD13	4:A:560:LEU:HG	1.99	0.45
4:A:749:VAL:HG13	4:A:792:ILE:HG12	1.98	0.45
4:A:913:ARG:HH12	4:A:917:LEU:HB2	1.81	0.45
4:A:992:ILE:HD12	4:A:1036:PHE:HB2	1.98	0.45
4:A:1104:LEU:HB2	4:A:1134:LEU:HD22	1.98	0.45
4:A:1119:LYS:HG2	4:A:1124:ILE:HG13	1.99	0.45
4:A:1238:GLN:OE1	4:A:1243:TYR:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1627:LYS:HA	4:A:1670:GLU:OE1	2.16	0.45
4:A:2501:LEU:O	4:A:2505:VAL:HG22	2.16	0.45
4:A:2978:LYS:NZ	4:A:2980:ASP:O	2.44	0.45
4:A:3161:LEU:HA	4:A:3164:TRP:CD1	2.51	0.45
4:A:3330:LEU:HD23	4:A:3384:HIS:CD2	2.51	0.45
4:A:3535:ILE:HG13	4:A:3798:SER:HB2	1.98	0.45
4:A:3951:GLN:OE1	4:A:3951:GLN:N	2.50	0.45
4:A:3962:ARG:HD2	4:A:4124:TRP:CZ2	2.52	0.45
4:A:4086:ASP:N	4:A:4086:ASP:OD1	2.49	0.45
5:B:166:ILE:HB	5:B:200:LEU:HD13	1.99	0.45
5:B:214:SER:H	5:B:218:ARG:HH21	1.64	0.45
5:B:304:ASN:N	5:B:309:GLY:O	2.33	0.45
5:B:376:ILE:HB	6:C:539:LEU:HA	1.99	0.45
5:B:377:GLY:HA3	6:C:539:LEU:HB3	1.98	0.45
10:E:22:DG:H1'	10:E:23:DT:O4	2.17	0.45
4:S:623:PHE:O	4:S:626:LEU:HG	2.17	0.45
4:S:1107:TYR:HD2	4:S:1131:ILE:HG23	1.81	0.45
4:S:1942:CYS:O	4:S:1945:TYR:HB3	2.16	0.45
4:S:3676:PRO:O	4:S:3678:GLY:N	2.50	0.45
5:T:387:ILE:HD11	6:U:446:PRO:HD3	1.99	0.45
6:U:35:LYS:O	6:U:39:THR:HG23	2.16	0.45
7:V:45:DG:H2''	8:W:13:DA:C4	2.52	0.45
1:K:36:LEU:HD12	1:K:37:THR:H	1.81	0.45
1:N:10:LEU:HA	1:N:86:PHE:HB2	1.98	0.45
1:N:179:ARG:HB3	2:P:805:TRP:CE2	2.52	0.45
2:P:694:GLY:N	2:P:697:THR:OG1	2.49	0.45
2:P:799:LEU:HA	2:P:802:ARG:HG2	1.99	0.45
3:R:139:LEU:HD21	3:R:210:PHE:CZ	2.52	0.45
4:F:881:LYS:HD3	4:F:3900:LEU:HD22	1.99	0.45
4:F:890:LYS:NZ	4:F:908:ASP:H	2.15	0.45
4:F:1289:SER:HA	4:F:1292:LYS:HB3	1.98	0.45
4:F:1630:ASP:C	4:F:1632:TRP:H	2.24	0.45
4:F:1693:VAL:HG11	4:F:1746:PHE:HD1	1.80	0.45
4:F:2093:CYS:C	4:F:2096:PRO:HD2	2.42	0.45
4:F:2120:ARG:NH1	4:F:2159:PRO:O	2.50	0.45
4:F:2386:LEU:HD23	4:F:2418:LYS:HE2	1.98	0.45
4:F:2388:LYS:NZ	5:G:157:VAL:O	2.45	0.45
4:F:2573:PRO:HA	4:F:2786:LYS:NZ	2.31	0.45
4:F:3356:ALA:O	4:F:3359:ILE:HG22	2.16	0.45
4:F:3777:GLN:N	4:F:3786:LEU:O	2.50	0.45
4:F:3986:HIS:N	4:F:3989:ARG:HH21	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:4086:ASP:N	4:F:4086:ASP:OD1	2.49	0.45
4:F:4109:ASP:O	4:F:4114:PRO:HD3	2.16	0.45
5:G:301:ARG:O	6:H:291:LYS:HD2	2.16	0.45
6:H:184:ARG:HH22	6:H:476:LEU:HG	1.80	0.45
6:H:496:HIS:CD2	6:H:500:HIS:CE1	3.05	0.45
6:H:663:GLN:HA	6:H:666:VAL:HG12	1.98	0.45
4:A:132:ILE:HA	4:A:177:LEU:HD11	1.99	0.45
4:A:183:GLU:HG3	4:A:185:HIS:H	1.80	0.45
4:A:225:LYS:HE2	4:A:253:LEU:HD22	1.99	0.45
4:A:260:ILE:O	4:A:265:TYR:HB2	2.17	0.45
4:A:434:VAL:HG12	4:A:438:LEU:HD23	1.99	0.45
4:A:671:SER:O	4:A:675:ARG:HG3	2.17	0.45
4:A:782:ARG:HH12	4:A:862:LEU:HD22	1.80	0.45
4:A:1148:ALA:HA	4:A:1164:CYS:HB3	1.98	0.45
4:A:1282:LEU:HD21	4:A:1288:SER:HB3	1.99	0.45
4:A:2526:SER:HB3	4:A:2561:PHE:CD1	2.52	0.45
4:A:2773:ARG:HG3	4:A:2775:TYR:CD1	2.51	0.45
4:A:3631:LYS:HB3	4:A:3675:LYS:HE2	1.99	0.45
4:A:3975:LYS:HD3	4:A:3975:LYS:HA	1.62	0.45
6:C:509:GLN:HG3	6:C:511:HIS:HB3	1.99	0.45
4:S:1011:GLU:O	4:S:1014:LEU:HG	2.17	0.45
4:S:1419:LEU:HD21	4:S:1458:LEU:HD22	1.99	0.45
4:S:2968:ALA:O	4:S:2972:TYR:HB2	2.17	0.45
4:S:3490:VAL:HG13	4:S:3490:VAL:O	2.17	0.45
4:S:3751:LEU:HD13	4:S:3803:ILE:HD11	1.98	0.45
4:S:3775:LEU:HD21	4:S:3914:SER:HB3	1.98	0.45
5:T:259:LEU:HG	7:V:33:DA:H8	1.82	0.45
6:U:497:ARG:HG3	6:U:501:PRO:HA	1.98	0.45
3:Y:68:PRO:HA	3:Y:69:PRO:HD3	1.90	0.45
1:N:157:ASP:OD2	2:P:837:ARG:NH1	2.50	0.45
3:Q:54:VAL:HA	3:Q:57:ARG:NH2	2.30	0.45
3:R:13:TRP:CE2	3:R:134:HIS:HD2	2.34	0.45
4:F:368:LEU:O	4:F:370:ALA:N	2.50	0.45
4:F:682:TYR:CE1	4:F:700:LYS:HD3	2.51	0.45
4:F:849:GLU:O	4:F:853:ILE:HG13	2.17	0.45
4:F:1353:PRO:HA	4:F:1408:MET:HE1	1.98	0.45
4:F:1382:ILE:HD11	4:F:1385:ASN:HB2	1.98	0.45
4:F:1625:HIS:HA	4:F:1628:LYS:CE	2.47	0.45
4:F:2157:PHE:HB2	4:F:2164:TRP:HE1	1.81	0.45
4:F:2304:VAL:HB	4:F:2348:GLN:HE21	1.82	0.45
4:F:2397:CYS:HA	4:F:2400:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2584:CYS:SG	4:F:2780:LEU:HB2	2.57	0.45
4:F:2788:SER:HA	4:F:2791:ILE:HG12	1.99	0.45
4:F:3467:ARG:HH21	4:F:3471:ILE:HB	1.82	0.45
4:F:3522:THR:HG21	4:F:3558:ILE:HG23	1.99	0.45
4:F:4061:CYS:HB2	4:F:4078:VAL:HB	1.98	0.45
6:H:194:LEU:HD12	6:H:205:LEU:HD21	1.97	0.45
6:H:389:MET:HE2	6:H:389:MET:HA	1.99	0.45
7:I:29:DA:H1'	7:I:30:DA:C2	2.52	0.45
4:A:300:TRP:HA	4:A:303:HIS:HD1	1.82	0.45
4:A:392:CYS:HA	4:A:396:PHE:HD2	1.81	0.45
4:A:1816:ARG:HA	4:A:1819:PHE:CD2	2.52	0.45
4:A:1880:MET:O	4:A:1883:ARG:HG2	2.17	0.45
4:A:2426:HIS:NE2	4:A:2428:ASP:HB2	2.31	0.45
4:A:3571:PHE:HD1	4:A:3687:MET:HE1	1.82	0.45
4:A:3843:LEU:HD13	4:A:3858:MET:HE2	1.99	0.45
4:A:4104:VAL:O	4:A:4108:MET:HG2	2.17	0.45
5:B:357:LYS:HB3	5:B:359:HIS:CE1	2.52	0.45
5:B:461:LYS:HD3	5:B:522:VAL:HA	1.99	0.45
6:C:220:GLY:O	6:C:224:ILE:HG13	2.17	0.45
6:C:246:HIS:HA	6:C:262:ALA:HA	1.98	0.45
6:C:488:GLN:HA	6:C:491:PHE:CD2	2.52	0.45
4:S:542:ASP:OD1	4:S:543:SER:N	2.48	0.45
4:S:654:ILE:HG12	4:S:710:PHE:CD2	2.51	0.45
4:S:2133:LEU:HD22	4:S:2164:TRP:CZ3	2.51	0.45
4:S:2143:ARG:HA	4:S:2146:LEU:HG	1.99	0.45
4:S:3533:PHE:CD2	4:S:3534:ILE:HG12	2.51	0.45
4:S:3909:ALA:HA	4:S:3912:CYS:HB2	1.98	0.45
4:S:3988:LEU:HD22	4:S:4104:VAL:HG13	1.99	0.45
5:T:250:GLU:HG2	6:U:428:GLU:O	2.16	0.45
5:T:397:LEU:HA	5:T:412:ALA:HA	1.98	0.45
6:U:45:GLN:CA	6:U:236:VAL:HB	2.47	0.45
6:U:251:LEU:HD22	6:U:261:ILE:N	2.32	0.45
6:U:368:ARG:HA	6:U:368:ARG:CZ	2.46	0.45
3:X:204:ILE:HG21	3:Y:140:MET:SD	2.57	0.45
1:K:24:TRP:CE3	1:K:75:LEU:HD12	2.52	0.45
3:Q:136:ILE:HG23	3:Q:140:MET:HG2	1.99	0.45
4:F:73:LEU:N	4:F:82:ARG:HH22	2.15	0.45
4:F:273:ARG:O	4:F:276:ALA:HB3	2.16	0.45
4:F:483:VAL:HG21	4:F:567:GLU:HG3	1.97	0.45
4:F:1419:LEU:HD23	4:F:1467:ILE:HG12	1.99	0.45
4:F:2139:PRO:O	4:F:2143:ARG:N	2.38	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2183:HIS:O	4:F:2187:VAL:HG23	2.16	0.45
4:F:2257:PHE:HB2	4:F:2299:TYR:HE1	1.81	0.45
4:F:2556:SER:OG	4:F:2799:GLN:HA	2.17	0.45
4:F:3531:TYR:HB2	4:F:3532:PRO:HD3	1.99	0.45
4:F:3577:GLN:O	4:F:3578:LEU:C	2.60	0.45
4:F:3603:LYS:HG2	4:F:3647:GLY:N	2.32	0.45
4:F:3669:LYS:HG3	4:F:3670:MET:N	2.31	0.45
4:F:3765:GLU:HB3	4:F:3792:SER:HA	1.97	0.45
4:F:3980:MET:N	4:F:3980:MET:SD	2.90	0.45
5:G:325:ARG:HH11	6:H:88:PHE:HB3	1.81	0.45
5:G:343:PRO:HA	5:G:401:THR:HB	1.99	0.45
5:G:476:ASP:OD1	5:G:476:ASP:N	2.39	0.45
6:H:41:PHE:HA	6:H:236:VAL:HG11	1.97	0.45
6:H:397:TYR:CZ	7:I:24:DA:H3'	2.52	0.45
6:H:679:VAL:HG13	6:H:705:LEU:HB3	1.99	0.45
4:A:52:ALA:HA	4:A:55:THR:HG22	1.99	0.45
4:A:76:ILE:HD12	4:A:76:ILE:HA	1.74	0.45
4:A:720:GLN:OE1	4:A:1023:SER:N	2.50	0.45
4:A:863:GLY:N	4:A:3167:ARG:HD3	2.32	0.45
4:A:1783:ARG:HG3	4:A:1826:THR:HB	1.99	0.45
4:A:1789:GLY:O	4:A:1794:GLN:NE2	2.50	0.45
4:A:3472:ILE:HD13	4:A:3483:MET:HE3	1.99	0.45
4:A:3719:ILE:HG12	4:A:3740:ILE:HG21	1.99	0.45
4:A:4069:GLU:O	4:A:4071:ALA:N	2.50	0.45
5:B:361:TYR:HA	5:B:436:PHE:HD2	1.82	0.45
5:B:444:ARG:HD3	6:C:360:GLN:HB3	1.97	0.45
6:C:12:LEU:HD23	6:C:54:ILE:HB	1.98	0.45
6:C:57:VAL:HG22	6:C:79:VAL:HG23	1.99	0.45
6:C:210:MET:HA	6:C:213:ILE:HG12	1.98	0.45
6:C:321:VAL:HG13	6:C:323:PHE:HB2	1.99	0.45
4:S:490:ILE:HG21	4:S:524:TYR:H	1.82	0.45
4:S:861:SER:N	4:S:3136:THR:HG21	2.32	0.45
4:S:1215:GLU:HB3	4:S:1218:SER:HB3	1.98	0.45
4:S:1249:SER:HB2	4:S:1251:GLN:NE2	2.31	0.45
4:S:1282:LEU:HB2	4:S:1359:LEU:HD22	1.99	0.45
4:S:1396:PRO:O	4:S:1400:VAL:HG23	2.17	0.45
4:S:1787:ARG:NE	4:S:1830:HIS:HE1	2.15	0.45
4:S:1840:PHE:HZ	4:S:1912:THR:HG22	1.82	0.45
4:S:1876:ILE:O	4:S:1879:VAL:HG12	2.17	0.45
4:S:2806:LYS:HD2	4:S:2807:GLN:NE2	2.32	0.45
4:S:3580:ASN:HB2	4:S:3583:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:67:ILE:HD11	5:T:119:LEU:HD11	1.99	0.45
5:T:350:PHE:HA	5:T:397:LEU:HB3	1.98	0.45
6:U:74:TYR:CD1	6:U:109:ASP:HB3	2.52	0.45
7:V:25:DA:H2'	7:V:26:DA:C4	2.52	0.45
1:L:21:GLN:NE2	1:L:125:GLU:OE1	2.40	0.45
2:M:757:GLU:HG3	2:M:758:TYR:CE2	2.52	0.45
2:P:826:ILE:HD11	2:P:875:PHE:CE2	2.52	0.45
3:Q:10:MET:HG3	3:Q:222:THR:HG21	1.98	0.45
3:Q:53:VAL:HA	3:Q:56:GLN:HG3	1.98	0.45
3:R:55:SER:O	3:R:59:LYS:HG2	2.16	0.45
3:R:164:ILE:O	3:R:168:GLN:HG3	2.16	0.45
4:F:10:CYS:O	4:F:14:ARG:N	2.30	0.45
4:F:156:PHE:HA	4:F:159:GLU:HG3	1.98	0.45
4:F:770:LEU:HD23	4:F:773:LEU:HD12	1.99	0.45
4:F:1915:LEU:HD12	4:F:1918:LEU:HD12	1.99	0.45
4:F:2122:LEU:O	4:F:2127:LYS:HG2	2.16	0.45
4:F:2184:TYR:O	4:F:2188:GLU:HG3	2.17	0.45
4:F:2950:LYS:NZ	4:F:2984:GLY:O	2.43	0.45
4:F:3075:LYS:O	4:F:3079:GLU:OE1	2.35	0.45
4:F:3702:PRO:HB2	4:F:3794:VAL:HG21	1.99	0.45
5:G:193:LEU:O	5:G:197:GLY:N	2.50	0.45
5:G:363:ARG:NH1	8:J:28:DA:OP1	2.45	0.45
5:G:463:LYS:HG3	6:H:383:ALA:HB1	1.98	0.45
6:H:182:PRO:HA	6:H:184:ARG:NH2	2.32	0.45
6:H:489:ARG:O	6:H:492:GLN:HG3	2.17	0.45
7:I:20:DT:H4'	8:J:36:DG:C5	2.51	0.45
4:A:85:ILE:HG13	4:A:86:LEU:HD22	1.99	0.45
4:A:1001:PHE:N	4:A:1002:GLU:OE1	2.50	0.45
4:A:1089:PHE:CZ	4:A:1096:VAL:HG22	2.52	0.45
4:A:2290:PRO:HG3	4:A:2298:GLU:N	2.27	0.45
4:A:2825:THR:O	4:A:2829:LYS:HG2	2.17	0.45
4:A:3490:VAL:HB	4:A:3493:TRP:H	1.82	0.45
4:A:3530:VAL:HG23	4:A:3531:TYR:N	2.31	0.45
4:A:4054:ALA:O	4:A:4103:GLN:NE2	2.50	0.45
5:B:439:PHE:CD2	6:C:269:GLN:HA	2.51	0.45
5:B:521:LEU:HA	5:B:524:GLU:HB3	2.00	0.45
6:C:11:VAL:HG21	6:C:114:SER:HB2	1.99	0.45
6:C:56:LEU:HD23	6:C:80:HIS:ND1	2.32	0.45
6:C:109:ASP:OD1	6:C:146:GLN:NE2	2.45	0.45
4:S:13:LEU:HB2	4:S:59:PHE:CD2	2.52	0.45
4:S:425:ASP:OD1	4:S:425:ASP:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2133:LEU:HD23	4:S:2167:PRO:O	2.17	0.45
4:S:2428:ASP:O	4:S:2432:GLN:N	2.50	0.45
4:S:2798:ALA:HB2	4:S:2808:LEU:HD13	1.99	0.45
4:S:3529:ILE:HB	4:S:3562:LEU:HD21	1.99	0.45
4:S:3874:ARG:HH11	4:S:4126:PRO:HB2	1.81	0.45
4:S:3984:MET:O	4:S:4104:VAL:HG11	2.17	0.45
4:S:4076:ASP:O	4:S:4080:VAL:HG22	2.17	0.45
5:T:297:LYS:HG3	6:U:298:ASN:OD1	2.16	0.45
6:U:439:LYS:HA	6:U:445:ALA:HB2	1.99	0.45
1:L:129:TYR:HA	1:L:132:ASP:OD1	2.17	0.44
2:M:729:CYS:HA	2:M:736:VAL:HG23	1.98	0.44
1:N:21:GLN:HE21	1:N:122:VAL:HG22	1.82	0.44
2:P:663:GLU:OE1	2:P:697:THR:OG1	2.26	0.44
4:F:289:ASN:O	4:F:293:LEU:HD13	2.16	0.44
4:F:385:TYR:O	4:F:389:ILE:HG12	2.17	0.44
4:F:469:ALA:HA	4:F:475:LEU:HD13	1.99	0.44
4:F:621:SER:O	4:F:625:ASN:ND2	2.50	0.44
4:F:721:TYR:C	4:F:722:LYS:HD3	2.42	0.44
4:F:738:HIS:O	4:F:742:GLU:HG3	2.17	0.44
4:F:1456:LYS:HZ2	4:F:1520:ALA:HB2	1.82	0.44
4:F:1816:ARG:NH2	6:H:624:LEU:O	2.50	0.44
4:F:2219:LEU:HA	4:F:2222:HIS:HB2	1.98	0.44
4:F:2440:TYR:CA	4:F:2443:MET:HE3	2.44	0.44
4:F:2462:VAL:N	4:F:2473:MET:HE1	2.33	0.44
4:F:2541:ALA:O	4:F:2544:SER:OG	2.24	0.44
4:F:3311:ASN:HB2	4:F:3315:TYR:N	2.33	0.44
4:F:3575:LEU:HD12	4:F:3681:LYS:H	1.82	0.44
5:G:261:LEU:N	5:G:269:ILE:O	2.49	0.44
6:H:16:VAL:O	6:H:101:GLY:HA2	2.18	0.44
6:H:245:ILE:HG13	7:I:22:DA:H5''	1.99	0.44
4:A:436:GLU:HB3	4:A:489:ARG:NH2	2.32	0.44
4:A:465:PHE:CZ	4:A:482:VAL:HG11	2.46	0.44
4:A:732:PHE:O	4:A:736:LEU:HG	2.17	0.44
4:A:900:GLU:OE1	4:A:900:GLU:N	2.50	0.44
4:A:1111:LEU:HG	4:A:1183:CYS:SG	2.57	0.44
4:A:1250:LEU:HD13	4:A:1326:GLU:HB3	1.98	0.44
4:A:1731:PRO:HA	4:A:1736:PHE:CD2	2.53	0.44
4:A:1773:VAL:HB	4:A:1778:PHE:HE1	1.82	0.44
4:A:1802:TYR:HA	4:A:1805:PHE:HB3	1.98	0.44
4:A:1986:ARG:HB3	4:A:2184:TYR:CE1	2.51	0.44
4:A:2161:ALA:HB3	4:A:2199:LEU:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2482:ASP:C	4:A:2486:ASP:HB3	2.41	0.44
4:A:3100:LYS:HB2	4:A:3142:ILE:HD13	1.99	0.44
5:B:345:LEU:HA	5:B:399:ARG:O	2.17	0.44
6:C:119:GLN:NE2	6:C:153:SER:HA	2.32	0.44
4:S:12:LEU:HD21	4:S:88:PHE:HE1	1.82	0.44
4:S:32:HIS:HA	4:S:35:ILE:HG22	1.98	0.44
4:S:131:LEU:HD13	4:S:173:LYS:C	2.42	0.44
4:S:142:ARG:H	4:S:144:MET:HE1	1.82	0.44
4:S:332:GLU:HG3	4:S:336:ASN:OD1	2.17	0.44
4:S:344:GLN:HB3	4:S:366:TYR:CD1	2.51	0.44
4:S:970:LEU:HD13	4:S:1014:LEU:HD12	1.99	0.44
4:S:996:THR:HA	4:S:1001:PHE:HE1	1.83	0.44
4:S:1081:ALA:HB3	4:S:1124:ILE:C	2.42	0.44
4:S:1249:SER:HB3	4:S:1313:PHE:HA	1.99	0.44
4:S:1475:LEU:HG	4:S:1527:ARG:HB2	1.99	0.44
4:S:2171:LEU:HD12	4:S:2172:ALA:N	2.32	0.44
4:S:2257:PHE:CE1	4:S:2299:TYR:HA	2.52	0.44
4:S:2854:PHE:O	4:S:2858:ILE:HG12	2.16	0.44
4:S:2930:TYR:CE1	4:S:3898:LEU:HD11	2.52	0.44
4:S:3004:HIS:O	4:S:3176:MET:HG3	2.16	0.44
4:S:3424:LEU:HD13	4:S:3475:TYR:CD1	2.52	0.44
4:S:3753:LYS:H	4:S:3802:LEU:HA	1.81	0.44
5:T:418:GLU:OE2	5:T:420:LEU:HD13	2.17	0.44
6:U:595:ALA:HB1	6:U:599:ARG:NH2	2.31	0.44
6:U:640:ARG:HH22	6:U:678:VAL:HG12	1.82	0.44
3:X:211:VAL:HG23	3:X:212:MET:SD	2.57	0.44
1:K:37:THR:HA	1:K:42:ALA:HA	1.98	0.44
2:M:738:TRP:CD2	2:M:750:THR:HG23	2.52	0.44
1:N:43:TRP:HB3	1:N:93:CYS:SG	2.57	0.44
1:N:56:ALA:HA	1:N:59:MET:HG3	1.99	0.44
1:N:144:LEU:HG	1:O:144:LEU:CG	2.48	0.44
2:P:856:LEU:HA	2:P:860:VAL:HG21	1.99	0.44
3:R:133:GLN:HE22	3:R:137:ARG:HD2	1.82	0.44
3:R:153:LEU:O	3:R:157:LEU:HD23	2.18	0.44
4:F:114:VAL:CG1	4:F:119:ARG:HE	2.30	0.44
4:F:153:PHE:HE2	4:F:192:ASN:HD22	1.63	0.44
4:F:1101:PHE:CE1	4:F:1163:LEU:HB3	2.52	0.44
4:F:1877:LEU:HD23	4:F:1880:MET:SD	2.57	0.44
4:F:2254:ARG:NH2	4:F:2292:CYS:HB3	2.31	0.44
4:F:2475:ASN:O	4:F:2478:MET:HG3	2.17	0.44
4:F:3515:GLN:HA	4:F:3518:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3603:LYS:NZ	4:F:3647:GLY:H	2.16	0.44
4:F:3640:PHE:HA	4:F:3643:HIS:ND1	2.32	0.44
4:F:3778:ASP:N	4:F:3781:CYS:HB2	2.22	0.44
4:F:3961:PHE:HE2	4:F:4107:LEU:HG	1.82	0.44
5:G:206:LYS:HE3	5:G:207:LYS:HZ3	1.82	0.44
5:G:353:LEU:O	5:G:353:LEU:HD23	2.18	0.44
6:H:468:GLU:HB3	6:H:471:ASP:OD1	2.17	0.44
4:A:162:LEU:HG	4:A:163:LYS:H	1.81	0.44
4:A:225:LYS:HA	4:A:225:LYS:HD3	1.84	0.44
4:A:925:GLN:HA	4:A:2769:VAL:HG23	2.00	0.44
4:A:1375:THR:HG21	4:A:1395:LEU:CB	2.47	0.44
4:A:1389:VAL:O	4:A:1392:MET:N	2.50	0.44
4:A:2122:LEU:HG	4:A:2160:TYR:CE1	2.52	0.44
4:A:2222:HIS:ND1	4:A:2222:HIS:O	2.50	0.44
4:A:2890:ILE:HD11	4:A:2929:LEU:CB	2.47	0.44
6:C:346:CYS:SG	6:C:347:LYS:N	2.90	0.44
9:D:31:DA:H8	10:E:25:DT:C5	2.35	0.44
4:S:188:GLU:HA	4:S:191:ASN:HB2	1.99	0.44
4:S:528:VAL:HG11	4:S:632:GLU:CD	2.42	0.44
4:S:902:LYS:H	4:S:2822:LYS:HG3	1.82	0.44
4:S:1391:VAL:O	4:S:1392:MET:HE2	2.17	0.44
4:S:1437:TYR:HA	4:S:1504:ASP:HB3	1.99	0.44
4:S:1481:THR:HA	4:S:1527:ARG:NH2	2.33	0.44
4:S:1755:SER:HB3	4:S:1758:LEU:HD13	1.99	0.44
4:S:1945:TYR:CE2	4:S:2097:LEU:HG	2.52	0.44
4:S:2569:SER:OG	4:S:2571:ASP:OD1	2.34	0.44
4:S:3087:SER:HA	4:S:3099:ALA:HB1	1.98	0.44
4:S:3738:ILE:HD12	4:S:3740:ILE:HD11	1.99	0.44
6:U:283:THR:O	6:U:285:LYS:HG2	2.17	0.44
6:U:405:VAL:HG22	6:U:426:PHE:CE1	2.52	0.44
6:U:595:ALA:O	6:U:599:ARG:HG3	2.17	0.44
8:W:21:DA:N7	8:W:22:DG:N1	2.65	0.44
1:L:175:ASP:O	1:L:179:ARG:HG3	2.18	0.44
1:N:59:MET:HE3	1:N:69:GLU:OE1	2.18	0.44
1:N:161:ARG:HA	2:P:899:ASP:OD1	2.17	0.44
3:Q:215:GLN:O	3:Q:219:MET:HG2	2.18	0.44
4:F:364:ARG:NH1	4:F:415:GLN:HB3	2.32	0.44
4:F:1184:ARG:NH2	4:F:1265:GLU:OE1	2.31	0.44
4:F:1203:SER:N	4:F:1204:PRO:HD3	2.33	0.44
4:F:1282:LEU:HB2	4:F:1359:LEU:HD13	1.98	0.44
4:F:1866:GLN:O	4:F:1870:LYS:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1923:PHE:O	4:F:1925:GLU:N	2.51	0.44
4:F:1947:CYS:O	4:F:1951:VAL:HG13	2.17	0.44
4:F:2138:VAL:HG13	4:F:2143:ARG:HG3	2.00	0.44
4:F:2260:PHE:C	4:F:2270:ASN:HB2	2.42	0.44
4:F:2341:LEU:HA	4:F:2344:LEU:HG	2.00	0.44
4:F:2546:TYR:HB3	4:F:2842:ARG:NH1	2.31	0.44
4:F:2841:ASN:ND2	4:F:2871:LEU:HD11	2.28	0.44
4:F:3100:LYS:HA	4:F:3103:ILE:HG22	1.99	0.44
4:F:3266:SER:N	4:F:3272:TRP:HD1	2.14	0.44
4:F:3372:LYS:HD3	4:F:3372:LYS:HA	1.77	0.44
4:F:3658:ASP:OD1	4:F:3658:ASP:N	2.50	0.44
5:G:46:LYS:O	5:G:50:GLU:N	2.42	0.44
5:G:319:SER:O	6:H:277:THR:N	2.50	0.44
6:H:307:LYS:NZ	6:H:312:GLN:HE21	2.14	0.44
4:A:879:MET:O	4:A:882:SER:HB3	2.17	0.44
4:A:1577:LEU:HD12	4:A:1578:ALA:N	2.32	0.44
4:A:1709:GLU:HG3	4:A:1712:ARG:HH21	1.83	0.44
4:A:1871:MET:HE3	4:A:1939:LEU:HD23	1.99	0.44
4:A:2429:ASP:CG	4:A:2469:CYS:HB3	2.42	0.44
4:A:2534:ASN:HB3	4:A:2537:ASP:CG	2.42	0.44
4:A:2575:PRO:HA	4:A:2785:ILE:O	2.18	0.44
4:A:3015:SER:HB2	4:A:3044:MET:SD	2.58	0.44
4:A:3243:ILE:HG23	4:A:3255:ALA:HB1	1.98	0.44
4:A:3455:LYS:O	4:A:3491:PRO:HB3	2.17	0.44
5:B:126:GLN:HA	5:B:129:LYS:HG2	1.97	0.44
5:B:219:ASP:OD1	5:B:219:ASP:N	2.48	0.44
5:B:290:ARG:HD2	6:C:309:ASP:HA	1.98	0.44
5:B:481:PRO:HD3	5:B:505:ASP:CG	2.43	0.44
6:C:260:ARG:HB3	6:C:368:ARG:HH11	1.81	0.44
6:C:342:VAL:HG12	6:C:393:VAL:HG22	2.00	0.44
4:S:125:ILE:HG23	4:S:128:LEU:HD23	1.98	0.44
4:S:379:LYS:O	4:S:379:LYS:NZ	2.31	0.44
4:S:879:MET:HE2	4:S:3122:HIS:CE1	2.52	0.44
4:S:977:ASP:HB3	4:S:980:THR:OG1	2.16	0.44
4:S:1185:HIS:HA	4:S:1188:ILE:HG12	1.99	0.44
4:S:1471:GLN:HG3	4:S:1477:HIS:N	2.32	0.44
4:S:2158:ARG:CZ	4:S:2196:TRP:HB3	2.47	0.44
4:S:2331:MET:SD	4:S:2335:ASN:HB3	2.56	0.44
4:S:2418:LYS:HA	4:S:2418:LYS:HD3	1.74	0.44
4:S:2869:LEU:HD22	4:S:2896:ALA:HB2	1.99	0.44
5:T:366:LEU:HB2	5:T:434:LEU:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:41:PHE:O	6:U:44:ARG:HB3	2.17	0.44
6:U:616:LEU:HB2	6:U:638:CYS:SG	2.57	0.44
7:V:34:DC:H2''	7:V:35:DT:O5'	2.17	0.44
1:K:54:GLN:HA	3:R:64:ARG:HD2	1.99	0.44
2:M:721:VAL:HG13	2:M:743:MET:HG2	1.97	0.44
2:M:845:LEU:HD11	2:M:864:ILE:HD13	1.98	0.44
1:N:40:HIS:O	1:O:40:HIS:ND1	2.51	0.44
1:N:150:ARG:HH12	2:P:835:GLY:HA3	1.81	0.44
2:P:708:ARG:HG3	5:G:493:LEU:HD21	1.98	0.44
2:P:792:MET:SD	2:P:796:ILE:HD11	2.57	0.44
4:F:341:PHE:N	4:F:341:PHE:CD1	2.83	0.44
4:F:429:GLU:O	4:F:433:PRO:HD3	2.17	0.44
4:F:571:SER:O	4:F:574:LYS:HG2	2.18	0.44
4:F:1104:LEU:HG	4:F:1168:LEU:HD13	1.99	0.44
4:F:1282:LEU:HB3	4:F:1359:LEU:HD22	2.00	0.44
4:F:2401:VAL:HA	4:F:2404:ARG:HG2	1.99	0.44
4:F:2444:PRO:HB2	4:F:2445:LYS:HZ3	1.83	0.44
4:F:2960:GLU:CD	4:F:3001:CYS:HB3	2.43	0.44
4:F:3011:LEU:HD22	4:F:3044:MET:HA	1.99	0.44
5:G:173:ASP:CG	5:G:206:LYS:HD3	2.42	0.44
5:G:419:GLU:N	5:G:426:GLN:HE22	2.16	0.44
6:H:56:LEU:N	6:H:81:ARG:HB2	2.33	0.44
6:H:324:SER:O	6:H:328:GLU:HG2	2.18	0.44
4:A:374:LYS:HA	4:A:378:ALA:HB2	1.97	0.44
4:A:734:LEU:HB3	4:A:772:ALA:HB2	1.99	0.44
4:A:1725:GLN:NE2	4:A:1769:GLU:OE1	2.50	0.44
5:B:473:TYR:CE1	6:C:424:LEU:HD13	2.51	0.44
6:C:250:ARG:C	6:C:340:PHE:H	2.20	0.44
9:D:32:DA:C5	10:E:25:DT:H2''	2.52	0.44
4:S:465:PHE:CE1	4:S:479:ILE:HG22	2.52	0.44
4:S:1169:VAL:HG21	4:S:1194:PHE:HB3	1.98	0.44
4:S:2216:LEU:O	4:S:2220:MET:HG3	2.17	0.44
4:S:2269:ASP:OD1	4:S:2270:ASN:N	2.50	0.44
4:S:2374:LEU:HD12	4:S:2377:ARG:HD2	1.99	0.44
4:S:2536:LEU:HB2	4:S:2823:PHE:CE2	2.53	0.44
4:S:3737:ARG:HA	4:S:3750:PHE:O	2.17	0.44
4:S:3778:ASP:O	4:S:3782:SER:OG	2.27	0.44
4:S:3866:GLU:O	4:S:3870:SER:CB	2.65	0.44
4:S:3915:HIS:CE1	4:S:3961:PHE:HA	2.52	0.44
4:S:3995:PRO:O	4:S:3999:THR:HG23	2.17	0.44
4:S:4098:LEU:HD12	4:S:4102:THR:HB	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:256:LEU:HG	7:V:32:DA:C8	2.53	0.44
5:T:399:ARG:CB	5:T:408:PRO:HB2	2.48	0.44
5:T:488:ARG:C	5:T:500:PRO:HB3	2.42	0.44
6:U:652:GLU:HB3	6:U:690:GLU:HA	1.99	0.44
3:Y:44:VAL:HB	3:Y:131:VAL:HG22	1.99	0.44
1:K:97:PHE:O	1:K:109:GLY:N	2.47	0.44
2:M:660:GLU:CG	2:M:686:GLY:HA3	2.48	0.44
2:P:818:VAL:HG21	2:P:893:TRP:CZ3	2.52	0.44
2:P:856:LEU:HD12	2:P:878:PHE:CD2	2.47	0.44
4:F:631:ARG:NH2	4:F:634:LEU:HB2	2.32	0.44
4:F:638:GLN:HG3	4:F:679:LYS:HZ1	1.83	0.44
4:F:993:HIS:O	4:F:996:THR:HG22	2.17	0.44
4:F:994:TRP:NE1	4:F:2581:LEU:HD11	2.32	0.44
4:F:1437:TYR:CD2	4:F:1490:GLY:HA3	2.52	0.44
4:F:3887:PHE:CD1	4:F:3897:PHE:HE1	2.35	0.44
5:G:93:ASP:OD1	5:G:101:ASN:N	2.51	0.44
5:G:240:GLU:O	5:G:244:ARG:HB2	2.18	0.44
5:G:325:ARG:HH11	6:H:498:ALA:HB1	1.82	0.44
5:G:470:ARG:O	5:G:517:ARG:NH1	2.50	0.44
6:H:287:GLU:CD	6:H:287:GLU:H	2.26	0.44
6:H:362:LEU:CB	6:H:421:TYR:HB3	2.48	0.44
6:H:462:SER:O	6:H:465:LYS:NZ	2.32	0.44
4:A:243:GLN:O	4:A:282:PHE:HB3	2.17	0.44
4:A:898:PHE:HA	4:A:2569:SER:OG	2.18	0.44
4:A:1650:ALA:HB1	4:A:1695:LEU:HD13	1.99	0.44
4:A:1678:LEU:HA	4:A:1684:LEU:CB	2.47	0.44
4:A:1771:GLN:HA	4:A:1775:GLU:HG3	1.99	0.44
4:A:1780:SER:HB2	4:A:1784:ARG:NH1	2.33	0.44
4:A:3527:GLN:HA	4:A:3530:VAL:CG1	2.48	0.44
4:A:3758:LEU:HG	4:A:3761:ASP:OD2	2.17	0.44
4:A:3767:LEU:O	4:A:3771:MET:HB3	2.18	0.44
4:A:3878:VAL:HG11	4:A:4128:MET:HA	1.99	0.44
6:C:267:ILE:HG21	6:C:481:LYS:NZ	2.32	0.44
6:C:529:PRO:O	6:C:533:ILE:HG12	2.18	0.44
4:S:112:THR:HG22	4:S:152:LEU:HG	1.99	0.44
4:S:114:VAL:HG22	4:S:119:ARG:NH2	2.33	0.44
4:S:407:VAL:HB	4:S:449:TYR:HE1	1.83	0.44
4:S:479:ILE:HD11	4:S:567:GLU:HB3	1.99	0.44
4:S:738:HIS:O	4:S:742:GLU:N	2.51	0.44
4:S:1107:TYR:CE2	4:S:1130:ALA:HB3	2.52	0.44
4:S:1369:MET:HG2	4:S:1414:ILE:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1756:PRO:HB3	4:S:1797:LEU:HA	2.00	0.44
4:S:1779:GLN:O	4:S:1783:ARG:HG2	2.17	0.44
4:S:1786:ALA:HB3	4:S:1830:HIS:HB3	1.99	0.44
4:S:1920:TYR:C	4:S:1922:ALA:H	2.25	0.44
4:S:3040:TYR:O	4:S:3044:MET:HG2	2.18	0.44
4:S:3048:LYS:HG3	4:S:3058:ASP:OD2	2.18	0.44
4:S:3499:ILE:HD12	4:S:3502:MET:HG3	1.99	0.44
5:T:204:HIS:HA	5:T:213:ILE:HB	2.00	0.44
5:T:247:ARG:NH2	5:T:501:GLU:O	2.49	0.44
5:T:469:LEU:HD23	6:U:345:PHE:HB2	2.00	0.44
5:T:479:GLU:HA	6:U:426:PHE:HB3	1.98	0.44
5:T:482:VAL:HG11	8:W:33:DA:H62	1.83	0.44
6:U:332:LYS:HZ2	6:U:334:LYS:HB3	1.82	0.44
6:U:677:ILE:HA	6:U:680:GLN:CD	2.42	0.44
1:L:22:VAL:HG21	1:L:74:LEU:HD13	2.00	0.44
2:M:747:CYS:SG	2:M:750:THR:OG1	2.64	0.44
1:N:43:TRP:CZ2	1:N:90:LYS:HB3	2.53	0.44
2:P:682:ILE:HG22	2:P:687:GLY:HA3	1.99	0.44
3:Q:51:THR:HB	3:Q:73:LEU:HD22	1.99	0.44
3:Q:80:LEU:HD22	3:Q:84:LEU:HD12	2.00	0.44
3:Q:176:ARG:HE	3:Q:179:LEU:HG	1.82	0.44
4:F:270:ALA:HA	4:F:273:ARG:HE	1.83	0.44
4:F:364:ARG:HH22	4:F:419:SER:HB3	1.83	0.44
4:F:412:SER:HA	4:F:415:GLN:OE1	2.17	0.44
4:F:670:LEU:HA	4:F:673:THR:HB	2.00	0.44
4:F:1375:THR:CA	4:F:1381:SER:HB2	2.47	0.44
4:F:1413:ASP:N	4:F:1413:ASP:OD1	2.50	0.44
4:F:1512:SER:HA	4:F:1515:LEU:HD12	1.99	0.44
4:F:1555:HIS:HB3	4:F:1559:PHE:CE2	2.51	0.44
4:F:1752:LEU:HA	4:F:1788:ARG:HH12	1.82	0.44
4:F:1782:PHE:HB3	4:F:1826:THR:OG1	2.18	0.44
4:F:2442:MET:HE1	4:F:2446:LEU:HD13	1.99	0.44
4:F:2473:MET:O	4:F:2477:LEU:HD23	2.16	0.44
4:F:2732:PHE:CG	4:F:2732:PHE:O	2.71	0.44
4:F:2996:LEU:HD21	4:F:3040:TYR:CD1	2.53	0.44
4:F:3459:ASN:OD1	4:F:3460:GLU:N	2.51	0.44
4:F:3994:ASP:OD1	4:F:3995:PRO:HD3	2.17	0.44
5:G:153:LEU:HA	5:G:156:ASP:OD2	2.18	0.44
5:G:350:PHE:HB2	6:H:462:SER:HA	1.99	0.44
5:G:418:GLU:HA	5:G:430:PRO:HD3	1.99	0.44
6:H:269:GLN:HB3	6:H:271:ARG:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:530:LEU:HD23	6:H:534:LYS:HD2	1.99	0.44
6:H:596:GLU:N	6:H:599:ARG:HH21	2.15	0.44
8:J:25:DT:H5''	8:J:26:DT:C5	2.53	0.44
4:A:176:GLU:CB	4:A:223:CYS:HA	2.47	0.44
4:A:306:VAL:HA	4:A:309:LYS:HG3	2.00	0.44
4:A:938:VAL:O	4:A:942:LEU:HD23	2.18	0.44
4:A:1473:THR:OG1	4:A:1475:LEU:O	2.23	0.44
4:A:1717:LEU:HD22	4:A:1746:PHE:CD2	2.53	0.44
4:A:2486:ASP:OD1	4:A:2489:SER:OG	2.31	0.44
4:A:2860:ASP:OD1	4:A:2861:ILE:N	2.50	0.44
6:C:391:ALA:HB3	6:C:408:ALA:HB3	1.99	0.44
10:E:23:DT:H4'	10:E:24:DT:OP1	2.18	0.44
4:S:730:LEU:O	4:S:734:LEU:HG	2.17	0.44
4:S:917:LEU:HB3	4:S:930:ALA:HB1	1.99	0.44
4:S:1347:THR:HA	4:S:1351:THR:HG23	1.99	0.44
4:S:1415:LEU:O	4:S:1419:LEU:HB2	2.18	0.44
4:S:1725:GLN:HG3	4:S:1727:ARG:HB2	2.00	0.44
4:S:2183:HIS:CG	4:S:2184:TYR:N	2.86	0.44
4:S:2186:VAL:HA	4:S:2189:ILE:HG12	1.99	0.44
4:S:2195:SER:N	4:S:2724:ASP:OD2	2.51	0.44
4:S:2273:GLY:HA2	4:S:2276:LEU:HD12	1.99	0.44
4:S:2524:PHE:HA	4:S:2530:ARG:HH21	1.81	0.44
4:S:2541:ALA:O	4:S:2545:LEU:HG	2.18	0.44
4:S:2735:ASP:OD1	4:S:2735:ASP:N	2.44	0.44
4:S:3193:ILE:HG22	4:S:3193:ILE:O	2.17	0.44
4:S:3243:ILE:CG2	4:S:3282:ARG:HE	2.31	0.44
4:S:3572:ILE:HA	4:S:3575:LEU:HD12	2.00	0.44
4:S:4090:ARG:NH1	4:S:4091:ALA:HB2	2.33	0.44
5:T:50:GLU:H	5:T:59:PRO:HD2	1.82	0.44
5:T:72:ILE:HG22	5:T:247:ARG:HD3	2.00	0.44
5:T:178:ASN:ND2	5:T:182:LYS:HD2	2.33	0.44
5:T:492:ALA:HA	5:T:497:LEU:HB3	1.99	0.44
6:U:271:ARG:HH21	8:W:30:DT:H3	1.64	0.44
6:U:594:PRO:HG2	6:U:634:LYS:HZ2	1.83	0.44
7:V:44:DG:N7	7:V:45:DG:H8	2.14	0.44
3:Y:24:LEU:N	3:Y:39:SER:O	2.39	0.44
1:K:165:CYS:SG	1:L:162:PHE:HE1	2.41	0.44
1:N:190:LYS:HE2	1:N:194:LEU:HD11	1.99	0.44
2:P:668:SER:O	2:P:703:GLY:N	2.30	0.44
3:Q:37:LEU:HD13	3:Q:134:HIS:HB2	1.99	0.44
3:Q:167:TYR:CE2	3:R:173:THR:HA	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:103:ALA:HA	3:R:123:CYS:O	2.18	0.44
4:F:322:GLN:HG3	4:F:326:MET:HE3	2.00	0.44
4:F:332:GLU:O	4:F:335:LYS:N	2.50	0.44
4:F:527:TYR:HB2	4:F:629:PHE:HZ	1.81	0.44
4:F:1052:SER:HB3	4:F:1055:ASN:HB3	1.98	0.44
4:F:1066:LEU:HB3	4:F:1078:ALA:HB2	1.99	0.44
4:F:1725:GLN:OE1	4:F:1726:SER:N	2.50	0.44
4:F:1865:THR:HB	4:F:1869:LYS:NZ	2.32	0.44
4:F:3132:VAL:HA	4:F:3135:LEU:HG	1.99	0.44
4:F:3591:ASP:O	4:F:3595:GLU:HG2	2.17	0.44
4:F:3736:LYS:O	4:F:3752:VAL:N	2.51	0.44
4:F:4055:ASN:HB3	4:F:4058:VAL:HB	1.99	0.44
5:G:303:PHE:C	5:G:311:LEU:HD23	2.43	0.44
6:H:663:GLN:HG2	6:H:686:ILE:HD12	1.99	0.44
4:A:529:ASP:OD1	4:A:529:ASP:N	2.49	0.44
4:A:764:PRO:O	4:A:768:VAL:HG23	2.17	0.44
4:A:911:LEU:HD22	4:A:937:MET:HE3	1.99	0.44
4:A:936:SER:HA	4:A:939:MET:HE3	1.99	0.44
4:A:2257:PHE:HD1	4:A:2299:TYR:HA	1.83	0.44
4:A:2558:ALA:O	4:A:2562:LEU:HG	2.18	0.44
4:A:3031:TRP:O	4:A:3034:PRO:HD2	2.18	0.44
4:A:3811:THR:O	4:A:3815:LEU:N	2.39	0.44
4:A:3820:MET:HB2	4:A:3824:GLU:HB2	1.99	0.44
5:B:366:LEU:HD22	6:C:431:ARG:HE	1.82	0.44
6:C:30:PRO:HB2	6:C:137:ASP:HB2	1.99	0.44
6:C:543:LYS:HD3	6:C:543:LYS:HA	1.72	0.44
4:S:97:GLY:C	4:S:99:LYS:H	2.26	0.44
4:S:1125:GLN:O	4:S:1126:GLN:HB2	2.17	0.44
4:S:1693:VAL:HG11	4:S:1746:PHE:HE1	1.82	0.44
4:S:1963:GLN:HG3	4:S:2123:PRO:O	2.18	0.44
4:S:2745:ARG:C	8:W:13:DA:H2"	2.42	0.44
4:S:3011:LEU:O	4:S:3047:SER:HB2	2.18	0.44
4:S:3617:LEU:HD23	4:S:3633:ILE:HG22	1.99	0.44
4:S:3689:ASP:OD1	4:S:3689:ASP:N	2.49	0.44
4:S:3765:GLU:O	4:S:3768:PHE:HB2	2.18	0.44
4:S:3944:HIS:HA	4:S:4015:ASN:HA	2.00	0.44
5:T:82:LEU:HB3	5:T:108:LEU:HB3	2.00	0.44
5:T:112:GLY:H	5:T:115:ARG:HB2	1.81	0.44
5:T:260:LYS:HG3	5:T:373:SER:HB2	2.00	0.44
1:K:180:PHE:HB2	2:M:774:LEU:HD21	2.00	0.44
1:K:184:LEU:HD21	1:L:183:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:107:ARG:NH2	1:L:109:GLY:O	2.43	0.44
1:L:132:ASP:C	1:L:135:ALA:H	2.25	0.44
1:L:156:ASN:HA	1:L:159:GLN:HG2	1.99	0.44
2:M:865:ILE:HG22	2:M:866:GLY:N	2.32	0.44
1:N:97:PHE:O	1:N:109:GLY:N	2.42	0.44
1:O:26:LYS:NZ	1:O:32:PHE:HA	2.33	0.44
4:F:357:LYS:HE2	4:F:408:TYR:CZ	2.52	0.44
4:F:1149:LYS:O	4:F:1163:LEU:N	2.51	0.44
4:F:1560:TYR:O	4:F:1567:ILE:HD12	2.18	0.44
4:F:1956:PHE:CZ	4:F:1962:TYR:HB2	2.53	0.44
4:F:2090:ARG:HE	4:F:2094:MET:HE1	1.81	0.44
4:F:2481:HIS:HA	4:F:2499:PHE:CE1	2.52	0.44
4:F:3079:GLU:HG2	4:F:3080:LEU:N	2.33	0.44
5:G:40:PHE:HB2	5:G:85:VAL:HG12	2.00	0.44
5:G:299:LYS:HB3	5:G:301:ARG:NH1	2.33	0.44
5:G:418:GLU:OE2	6:H:437:SER:HB3	2.17	0.44
5:G:425:ILE:HG22	5:G:427:VAL:HG13	1.99	0.44
5:G:490:LEU:HD22	6:H:323:PHE:HE2	1.83	0.44
6:H:58:LEU:O	6:H:78:THR:OG1	2.32	0.44
6:H:471:ASP:OD1	6:H:471:ASP:N	2.49	0.44
6:H:630:PRO:HA	6:H:633:MET:HG3	2.00	0.44
6:H:640:ARG:HA	6:H:640:ARG:HD3	1.81	0.44
7:I:29:DA:C8	7:I:30:DA:C2	3.06	0.44
4:A:88:PHE:O	4:A:91:ILE:HB	2.18	0.44
4:A:181:LEU:HD13	4:A:233:ASN:HD22	1.83	0.44
4:A:290:TYR:CE2	4:A:291:VAL:HG13	2.53	0.44
4:A:328:ALA:HA	4:A:372:PRO:HA	2.00	0.44
4:A:565:TYR:O	4:A:569:VAL:HG23	2.17	0.44
4:A:628:GLU:HB2	4:A:668:LYS:NZ	2.33	0.44
4:A:631:ARG:NH1	4:A:675:ARG:HH12	2.15	0.44
4:A:878:GLU:HG2	4:A:3934:THR:HB	1.99	0.44
4:A:896:VAL:O	4:A:902:LYS:HA	2.18	0.44
4:A:917:LEU:HD22	4:A:930:ALA:HB2	2.00	0.44
4:A:1177:GLY:HA3	4:A:1266:CYS:SG	2.58	0.44
4:A:1805:PHE:HA	4:A:1819:PHE:CD2	2.52	0.44
4:A:2394:LYS:O	4:A:2398:LEU:HG	2.17	0.44
4:A:2844:LEU:HA	4:A:2847:THR:HG22	2.00	0.44
4:A:3572:ILE:HA	4:A:3575:LEU:HD12	1.99	0.44
4:A:3921:GLY:H	4:A:3944:HIS:HB2	1.83	0.44
4:S:28:ALA:HA	4:S:77:GLU:HG3	1.99	0.44
4:S:975:ASP:N	4:S:975:ASP:OD1	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1076:LEU:HA	4:S:1114:ALA:HB1	2.00	0.44
4:S:1191:PHE:CZ	4:S:1208:LEU:HD13	2.52	0.44
4:S:1297:PHE:HD2	4:S:1367:HIS:NE2	2.16	0.44
4:S:1368:LEU:HA	4:S:1371:VAL:HG22	2.00	0.44
4:S:1871:MET:SD	4:S:1939:LEU:HB3	2.58	0.44
4:S:2256:ILE:HG12	4:S:2260:PHE:CE2	2.53	0.44
4:S:2291:GLN:CD	4:S:2292:CYS:H	2.26	0.44
4:S:2319:ALA:HA	4:S:2322:VAL:HG22	1.99	0.44
4:S:2328:ARG:HH21	4:S:2370:SER:HA	1.82	0.44
4:S:2555:LEU:HD13	4:S:2806:LYS:HB2	2.00	0.44
4:S:3283:LEU:O	4:S:3287:ARG:HG3	2.18	0.44
4:S:3866:GLU:O	4:S:3870:SER:OG	2.23	0.44
4:S:3928:PHE:CZ	4:S:3962:ARG:HB3	2.53	0.44
5:T:340:PHE:HB2	5:T:408:PRO:CD	2.42	0.44
6:U:165:LEU:HD23	6:U:167:PHE:HB2	1.99	0.44
1:O:8:ILE:HG22	1:O:86:PHE:CE2	2.53	0.44
3:Q:167:TYR:HE1	3:R:174:LEU:HD23	1.83	0.44
3:Q:178:ARG:CZ	3:Q:179:LEU:HD23	2.48	0.44
4:F:46:SER:C	4:F:48:PRO:HD3	2.42	0.44
4:F:1477:HIS:O	4:F:1481:THR:HG22	2.18	0.44
4:F:1511:ALA:O	4:F:1514:LEU:HG	2.18	0.44
4:F:1657:SER:O	4:F:1660:SER:OG	2.26	0.44
4:F:1864:ASP:OD1	4:F:1864:ASP:N	2.50	0.44
4:F:2194:LEU:HD22	4:F:2244:CYS:SG	2.58	0.44
4:F:2295:GLN:OE1	4:F:2295:GLN:N	2.51	0.44
4:F:2371:PHE:CD1	4:F:2373:PRO:HD2	2.53	0.44
4:F:2429:ASP:OD1	4:F:2464:HIS:NE2	2.40	0.44
4:F:3959:MET:HB3	4:F:4124:TRP:HE1	1.82	0.44
4:F:3998:LEU:O	4:F:4001:THR:HG22	2.18	0.44
5:G:47:ALA:HB1	5:G:171:ASN:N	2.31	0.44
5:G:101:ASN:ND2	5:G:142:SER:OG	2.42	0.44
5:G:317:LYS:HZ1	5:G:330:GLU:HB2	1.83	0.44
6:H:60:GLY:H	6:H:76:ASN:CB	2.31	0.44
6:H:283:THR:O	6:H:285:LYS:NZ	2.45	0.44
6:H:413:LYS:NZ	6:H:415:ASN:HB2	2.33	0.44
6:H:438:LEU:HD23	6:H:439:LYS:HZ2	1.83	0.44
6:H:450:GLN:O	6:H:454:VAL:HG12	2.18	0.44
8:J:27:DT:H1'	8:J:28:DA:C4	2.52	0.44
4:A:528:VAL:HG13	4:A:629:PHE:CE2	2.53	0.44
4:A:620:PHE:HE1	4:A:663:ILE:HG23	1.83	0.44
4:A:683:PHE:HB2	4:A:737:PRO:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1132:ASP:CG	4:A:1136:ARG:HH21	2.26	0.44
4:A:1342:MET:CG	4:A:1402:LEU:HD11	2.48	0.44
4:A:1482:GLU:OE2	4:A:1486:LEU:HD22	2.18	0.44
4:A:1630:ASP:HA	4:A:1633:TRP:CD2	2.52	0.44
4:A:1783:ARG:HG2	4:A:1830:HIS:CE1	2.53	0.44
4:A:1978:PHE:CZ	4:A:2139:PRO:HG2	2.53	0.44
4:A:2865:HIS:ND1	4:A:2868:LEU:HD12	2.33	0.44
4:A:3040:TYR:O	4:A:3044:MET:HG2	2.18	0.44
4:A:3409:VAL:HG22	4:A:3413:TYR:CE2	2.53	0.44
4:A:3731:SER:OG	4:A:3735:PRO:HD3	2.18	0.44
4:A:3918:LEU:HD12	4:A:3920:ILE:HD11	1.99	0.44
5:B:85:VAL:HG12	5:B:105:LEU:HD13	1.99	0.44
5:B:95:ASN:ND2	5:B:99:PHE:H	2.10	0.44
6:C:59:PHE:HE2	6:C:140:SER:HB3	1.83	0.44
4:S:386:VAL:HG13	4:S:431:TYR:CE2	2.51	0.44
4:S:738:HIS:HB2	4:S:780:ILE:HB	1.99	0.44
4:S:999:LYS:HZ3	4:S:2780:LEU:HD11	1.83	0.44
4:S:1134:LEU:O	4:S:1138:ILE:HG13	2.17	0.44
4:S:1489:LYS:HD2	4:S:1489:LYS:HA	1.81	0.44
4:S:1576:ASP:OD1	4:S:1576:ASP:N	2.51	0.44
4:S:2255:LEU:O	4:S:2258:GLU:HG2	2.18	0.44
4:S:2272:VAL:O	4:S:2276:LEU:HG	2.17	0.44
4:S:3900:LEU:HD12	4:S:3900:LEU:HA	1.79	0.44
5:T:82:LEU:HB2	5:T:108:LEU:HD22	1.99	0.44
5:T:261:LEU:HA	5:T:345:LEU:CB	2.48	0.44
5:T:295:PRO:HB2	6:U:298:ASN:HB2	2.00	0.44
5:T:418:GLU:OE2	6:U:437:SER:HB3	2.18	0.44
6:U:137:ASP:OD1	6:U:137:ASP:N	2.46	0.44
2:M:824:ALA:HA	2:M:871:ARG:NH2	2.33	0.43
2:M:838:LEU:HD23	2:M:838:LEU:HA	1.71	0.43
1:N:179:ARG:HB3	2:P:805:TRP:CZ2	2.53	0.43
1:O:140:LYS:O	1:O:143:HIS:HB2	2.18	0.43
1:O:192:ARG:NH2	1:O:196:ASN:OD1	2.47	0.43
3:Q:7:GLY:HA3	3:Q:28:PHE:CE2	2.53	0.43
3:R:210:PHE:O	3:R:215:GLN:N	2.49	0.43
4:F:217:LEU:HD23	4:F:217:LEU:H	1.82	0.43
4:F:891:ARG:HH11	4:F:957:PRO:HA	1.83	0.43
4:F:935:HIS:HD2	4:F:987:LEU:HD22	1.81	0.43
4:F:1065:SER:O	4:F:1069:HIS:N	2.40	0.43
4:F:1771:GLN:NE2	4:F:1776:GLU:OE1	2.51	0.43
4:F:2254:ARG:NE	4:F:2294:ILE:HG12	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2511:ILE:HD11	4:F:2550:ILE:HG23	2.00	0.43
4:F:2549:LYS:HA	4:F:2848:PHE:CZ	2.53	0.43
4:F:2850:PHE:HB3	4:F:2883:SER:HB3	2.00	0.43
4:F:2974:GLU:O	4:F:2978:LYS:HB2	2.18	0.43
4:F:3311:ASN:HB2	4:F:3315:TYR:H	1.82	0.43
4:F:3327:ASN:ND2	4:F:3387:GLU:HB3	2.33	0.43
4:F:3643:HIS:CG	4:F:3663:THR:HG21	2.53	0.43
4:F:3826:ALA:O	4:F:3830:SER:CB	2.65	0.43
4:F:3912:CYS:HB3	4:F:3961:PHE:CG	2.53	0.43
5:G:289:TYR:HE1	5:G:291:GLU:HB3	1.81	0.43
5:G:303:PHE:HB3	6:H:290:GLN:CB	2.47	0.43
6:H:109:ASP:HA	6:H:112:ILE:HB	1.99	0.43
6:H:370:ASP:HB3	6:H:373:ALA:HB3	1.99	0.43
4:A:71:LYS:HE2	4:A:78:PHE:CE2	2.53	0.43
4:A:89:LEU:HB3	4:A:133:LYS:HE2	1.98	0.43
4:A:130:LEU:O	4:A:134:LEU:HG	2.18	0.43
4:A:144:MET:SD	4:A:144:MET:N	2.86	0.43
4:A:425:ASP:OD1	4:A:425:ASP:N	2.51	0.43
4:A:791:ASP:OD1	4:A:792:ILE:HG13	2.18	0.43
4:A:962:TYR:O	4:A:965:THR:HG22	2.17	0.43
4:A:1476:HIS:ND1	4:A:1521:PHE:HB3	2.33	0.43
4:A:2190:VAL:HG21	4:A:2241:LEU:HD21	2.00	0.43
4:A:3027:LEU:HA	4:A:3031:TRP:CD2	2.53	0.43
4:A:3280:TYR:CE1	4:A:3283:LEU:HD23	2.52	0.43
4:A:3574:ALA:HA	4:A:3624:GLY:O	2.17	0.43
4:A:3784:ARG:HB2	4:A:3986:HIS:CB	2.48	0.43
4:A:3883:LEU:HD23	4:A:3970:LEU:HD22	2.00	0.43
5:B:33:SER:HA	5:B:80:ARG:HH22	1.82	0.43
4:S:30:ALA:O	4:S:34:LEU:HG	2.18	0.43
4:S:83:GLU:HG3	4:S:125:ILE:HG22	1.99	0.43
4:S:169:THR:HB	4:S:219:VAL:HG11	1.98	0.43
4:S:430:VAL:HG13	4:S:431:TYR:CD2	2.53	0.43
4:S:1149:LYS:HB2	4:S:1151:ARG:NH1	2.33	0.43
4:S:1166:LEU:HB2	4:S:1199:PRO:HG2	1.99	0.43
4:S:1329:ARG:HA	4:S:1332:TYR:HB3	2.00	0.43
4:S:2851:PHE:O	4:S:2855:VAL:HG22	2.17	0.43
4:S:3236:PHE:O	4:S:3240:MET:HG2	2.17	0.43
4:S:3300:VAL:HG21	4:S:3359:ILE:HG21	1.99	0.43
4:S:3385:LEU:HB3	4:S:3416:LEU:HD12	2.00	0.43
4:S:3531:TYR:HD2	4:S:3794:VAL:HG11	1.82	0.43
4:S:3887:PHE:HZ	4:S:3970:LEU:HD12	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3904:PHE:HE1	4:S:3930:VAL:HA	1.82	0.43
4:S:3949:ALA:N	4:S:4067:GLY:HA3	2.33	0.43
5:T:356:LEU:HD22	5:T:412:ALA:HB3	2.01	0.43
6:U:53:GLU:HB3	6:U:83:LEU:HD12	2.00	0.43
6:U:593:ASN:HA	6:U:597:ASN:HB2	2.00	0.43
3:X:18:LEU:HG	3:X:20:GLU:H	1.83	0.43
3:Y:14:ALA:H	3:Y:26:LYS:HB3	1.82	0.43
2:M:761:TYR:CD1	2:M:781:ILE:HG12	2.53	0.43
2:M:876:LYS:HE3	2:M:879:ARG:NH1	2.33	0.43
2:P:797:ALA:HB1	2:P:815:ARG:HH21	1.83	0.43
2:P:820:LEU:HD11	2:P:841:LYS:CB	2.48	0.43
2:P:878:PHE:HA	2:P:881:THR:OG1	2.18	0.43
3:R:8:LEU:HA	3:R:8:LEU:HD12	1.76	0.43
3:R:23:LEU:HD11	3:R:99:CYS:HB3	1.99	0.43
3:R:53:VAL:O	3:R:56:GLN:HG2	2.18	0.43
3:R:138:PRO:HB2	3:R:218:TYR:CZ	2.52	0.43
4:F:356:ASN:OD1	4:F:357:LYS:N	2.51	0.43
4:F:478:CYS:O	4:F:482:VAL:HG22	2.18	0.43
4:F:1643:MET:HG2	4:F:1688:LEU:HD22	2.00	0.43
4:F:2253:TYR:HE2	4:F:2289:ASP:HB3	1.82	0.43
4:F:2410:GLU:OE2	4:F:2413:PHE:N	2.31	0.43
4:F:2514:ASN:HB3	4:F:2517:LEU:HB2	2.00	0.43
4:F:2534:ASN:OD1	4:F:2535:THR:N	2.51	0.43
4:F:2575:PRO:HA	4:F:2786:LYS:HA	2.00	0.43
4:F:3120:LEU:HD22	4:F:3896:ALA:HB2	2.00	0.43
4:F:3320:ILE:HD12	4:F:3392:ALA:HA	2.00	0.43
4:F:3503:VAL:HG13	4:F:3536:SER:HB3	2.01	0.43
5:G:112:GLY:HA3	6:H:318:SER:OG	2.18	0.43
5:G:278:GLN:N	5:G:278:GLN:OE1	2.51	0.43
5:G:483:LEU:HB3	5:G:487:PHE:CZ	2.53	0.43
5:G:512:GLU:O	5:G:516:LYS:N	2.51	0.43
6:H:239:LYS:NZ	6:H:484:ASN:H	2.16	0.43
6:H:496:HIS:CG	6:H:505:LEU:HD13	2.53	0.43
6:H:691:ALA:C	6:H:695:SER:HB3	2.43	0.43
7:I:42:DA:H8	7:I:42:DA:H5''	1.83	0.43
4:A:865:GLN:HB3	4:A:3169:PRO:HA	2.00	0.43
4:A:1037:LEU:O	4:A:1041:ILE:HG12	2.18	0.43
4:A:1181:THR:OG1	4:A:1182:GLU:N	2.51	0.43
4:A:1487:VAL:HG23	4:A:1488:TYR:CD1	2.53	0.43
4:A:1690:GLY:HA2	4:A:1693:VAL:HG12	2.00	0.43
4:A:1817:GLN:NE2	4:A:1869:LYS:HA	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2919:ASP:OD1	4:A:2920:VAL:N	2.51	0.43
4:A:4064:LEU:HD22	4:A:4074:PHE:CE1	2.45	0.43
6:C:107:PHE:CZ	6:C:208:VAL:HB	2.51	0.43
4:S:53:LEU:HD22	4:S:96:MET:SD	2.58	0.43
4:S:74:ASN:OD1	4:S:118:ASP:HB3	2.17	0.43
4:S:310:LYS:HB3	4:S:357:LYS:NZ	2.33	0.43
4:S:345:PHE:CE1	4:S:366:TYR:HB3	2.48	0.43
4:S:756:PHE:HB2	4:S:795:CYS:HB2	2.01	0.43
4:S:888:ARG:HH12	4:S:964:ARG:HD2	1.83	0.43
4:S:1048:GLN:OE1	4:S:1051:LYS:NZ	2.44	0.43
4:S:1280:GLN:C	4:S:1285:GLU:HG2	2.44	0.43
4:S:3238:MET:O	4:S:3242:MET:HG3	2.17	0.43
4:S:3421:ASP:CG	4:S:3467:ARG:HD3	2.42	0.43
4:S:3468:LEU:HA	4:S:3471:ILE:HG22	2.00	0.43
4:S:3512:VAL:HG12	4:S:3551:ASN:ND2	2.33	0.43
4:S:3556:ALA:HA	4:S:3559:LYS:HG2	2.00	0.43
4:S:3812:LEU:HD22	4:S:3925:LEU:HG	1.99	0.43
4:S:3911:ILE:HD11	4:S:3937:VAL:HB	1.99	0.43
5:T:346:MET:HE2	5:T:408:PRO:HB3	1.99	0.43
5:T:399:ARG:HA	5:T:410:PHE:HA	2.00	0.43
5:T:439:PHE:CZ	6:U:485:PRO:HD2	2.52	0.43
6:U:21:SER:HB3	6:U:101:GLY:H	1.82	0.43
6:U:118:ILE:O	6:U:121:GLU:HB2	2.18	0.43
6:U:441:SER:HB3	6:U:444:TYR:HB2	2.00	0.43
1:L:141:ASN:O	1:L:145:GLN:HB3	2.18	0.43
2:M:895:THR:O	2:M:899:ASP:HB2	2.19	0.43
1:N:66:TYR:CZ	1:N:70:LEU:HD11	2.54	0.43
1:N:187:LYS:HD2	1:O:188:LYS:HD3	2.01	0.43
1:O:20:LEU:HD13	1:O:95:PHE:HE2	1.83	0.43
1:O:174:THR:CG2	2:P:785:ASN:HA	2.49	0.43
2:P:895:THR:O	2:P:899:ASP:HB2	2.18	0.43
3:R:46:HIS:CE1	3:R:48:GLN:HB3	2.53	0.43
3:R:50:ASP:O	3:R:54:VAL:HG12	2.18	0.43
4:F:177:LEU:N	4:F:223:CYS:O	2.51	0.43
4:F:374:LYS:HG2	4:F:423:TYR:CD1	2.53	0.43
4:F:616:LYS:HB3	4:F:619:ASP:HB2	2.00	0.43
4:F:649:PHE:O	4:F:652:GLU:HG2	2.18	0.43
4:F:1231:GLN:HG2	4:F:1235:ILE:HD12	2.00	0.43
4:F:1303:MET:N	4:F:1303:MET:SD	2.91	0.43
4:F:1458:LEU:HD22	4:F:1467:ILE:HG21	1.99	0.43
4:F:1476:HIS:ND1	4:F:1521:PHE:HB3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1737:ASN:HA	4:F:1740:VAL:HG22	2.01	0.43
4:F:2280:VAL:HG13	4:F:2285:LEU:HB2	1.99	0.43
4:F:2331:MET:O	4:F:2334:LYS:NZ	2.44	0.43
4:F:2342:CYS:O	4:F:2345:VAL:HG22	2.19	0.43
4:F:2381:ALA:O	4:F:2385:LEU:HG	2.19	0.43
4:F:2541:ALA:O	4:F:2545:LEU:HG	2.18	0.43
4:F:2597:PHE:HE1	4:F:2768:GLN:HE22	1.66	0.43
4:F:2963:SER:OG	4:F:3251:ASN:HA	2.17	0.43
4:F:3042:PRO:HA	4:F:3045:ILE:HG12	2.00	0.43
4:F:3056:GLU:HG2	4:F:3057:ALA:N	2.33	0.43
4:F:3130:GLN:CG	4:F:3178:ILE:HG21	2.48	0.43
4:F:3878:VAL:HG11	4:F:4127:TRP:O	2.18	0.43
5:G:35:ARG:N	5:G:160:LYS:O	2.46	0.43
6:H:138:LEU:HD13	6:H:204:GLY:HA3	2.01	0.43
6:H:533:ILE:HG23	6:H:537:PHE:CE2	2.54	0.43
4:A:178:LEU:HB2	4:A:227:LEU:HD12	2.01	0.43
4:A:382:ASP:O	4:A:385:TYR:HB3	2.18	0.43
4:A:466:LEU:HA	4:A:469:ALA:HB3	2.01	0.43
4:A:1338:VAL:HG13	4:A:1342:MET:HE2	2.00	0.43
4:A:1527:ARG:NH1	4:A:1530:SER:HG	2.14	0.43
4:A:1697:PRO:HB3	4:A:1752:LEU:C	2.43	0.43
4:A:1714:LEU:HD23	4:A:1746:PHE:CE2	2.54	0.43
4:A:2890:ILE:HD11	4:A:2929:LEU:HB3	2.00	0.43
5:B:168:LEU:HG	5:B:202:LEU:HD12	2.01	0.43
5:B:301:ARG:NH1	5:B:311:LEU:O	2.51	0.43
5:B:515:ASN:HA	5:B:518:LEU:HG	2.00	0.43
6:C:35:LYS:NZ	6:C:98:ILE:O	2.47	0.43
6:C:81:ARG:NH2	6:C:84:MET:HG2	2.32	0.43
4:S:38:LEU:HD21	4:S:85:ILE:N	2.34	0.43
4:S:67:VAL:HB	4:S:85:ILE:HD13	2.00	0.43
4:S:198:ARG:NH2	5:T:312:LEU:HB2	2.33	0.43
4:S:328:ALA:O	4:S:333:MET:HE1	2.18	0.43
4:S:1001:PHE:CE2	4:S:1049:GLN:HA	2.52	0.43
4:S:1229:CYS:HB2	4:S:1259:LEU:HD21	2.00	0.43
4:S:2859:GLN:CG	4:S:2876:VAL:HG13	2.48	0.43
4:S:3312:VAL:HG12	4:S:3330:LEU:HD21	2.00	0.43
4:S:3380:ARG:O	4:S:3384:HIS:ND1	2.38	0.43
4:S:3482:LEU:HB3	4:S:3514:VAL:HB	2.01	0.43
4:S:3856:MET:O	4:S:4072:PRO:HD2	2.19	0.43
4:S:3887:PHE:HE1	4:S:3905:ALA:HB2	1.84	0.43
6:U:643:ARG:HG2	6:U:685:LEU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:29:ILE:HA	3:Y:34:TYR:HB3	2.00	0.43
1:K:150:ARG:NE	2:M:835:GLY:O	2.50	0.43
1:L:42:ALA:HB1	1:L:122:VAL:HG23	2.00	0.43
1:O:192:ARG:HE	1:O:196:ASN:ND2	2.16	0.43
2:P:692:ASN:HB2	5:G:290:ARG:HE	1.83	0.43
2:P:706:ASN:O	2:P:710:LYS:HG3	2.17	0.43
2:P:841:LYS:HZ3	2:P:891:GLU:HG3	1.83	0.43
3:Q:75:HIS:HE1	3:Q:117:PHE:CE2	2.36	0.43
3:Q:109:ARG:HE	3:Q:118:TYR:HA	1.82	0.43
3:Q:167:TYR:CE1	3:R:174:LEU:HD23	2.53	0.43
3:R:142:MET:HE1	3:R:214:LEU:HD22	2.01	0.43
4:F:41:GLU:OE1	4:F:44:LEU:HD22	2.18	0.43
4:F:143:LEU:H	4:F:146:GLU:HB2	1.81	0.43
4:F:455:LEU:HB3	4:F:459:ARG:NH2	2.33	0.43
4:F:939:MET:HE1	4:F:2781:PRO:HB2	2.00	0.43
4:F:1560:TYR:CZ	4:F:1596:VAL:HG12	2.53	0.43
4:F:3110:PHE:HA	4:F:3113:ASN:ND2	2.33	0.43
4:F:3532:PRO:O	4:F:3535:ILE:HG22	2.19	0.43
4:F:3676:PRO:O	4:F:3678:GLY:N	2.51	0.43
5:G:33:SER:H	5:G:254:ARG:NE	2.16	0.43
5:G:45:SER:HA	5:G:139:SER:N	2.33	0.43
5:G:121:GLN:HE22	5:G:130:ARG:HB3	1.83	0.43
5:G:336:GLU:HA	5:G:339:ARG:HB3	2.01	0.43
5:G:340:PHE:CD2	5:G:408:PRO:HD2	2.53	0.43
5:G:442:ASP:OD1	6:H:269:GLN:HG3	2.17	0.43
6:H:147:LEU:O	6:H:150:ILE:HG22	2.18	0.43
6:H:409:PHE:CD1	6:H:410:PRO:HD2	2.54	0.43
6:H:669:LYS:NZ	6:H:674:PHE:HA	2.33	0.43
6:H:674:PHE:CE2	6:H:676:GLU:HB3	2.54	0.43
4:A:99:LYS:HG3	4:A:102:PRO:CD	2.49	0.43
4:A:256:ILE:HG22	4:A:257:ARG:N	2.33	0.43
4:A:610:ALA:HB2	4:A:722:LYS:HB2	2.00	0.43
4:A:733:LEU:HD11	4:A:748:TYR:CD1	2.53	0.43
4:A:887:ASP:N	4:A:887:ASP:OD1	2.50	0.43
4:A:1072:ALA:H	4:A:3745:GLU:CD	2.26	0.43
4:A:1092:GLU:OE2	4:A:1094:SER:OG	2.24	0.43
4:A:1152:ARG:O	4:A:1163:LEU:HD21	2.18	0.43
4:A:3759:ARG:O	4:A:3763:ARG:NH1	2.52	0.43
4:A:3760:GLN:NE2	4:A:4018:GLN:HB2	2.26	0.43
4:A:3843:LEU:HD22	4:A:3858:MET:HE2	2.01	0.43
4:A:3864:ARG:HG3	4:A:4115:ASN:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3984:MET:SD	4:A:4104:VAL:HG13	2.58	0.43
4:A:4112:THR:HA	4:A:4117:LEU:HD11	1.99	0.43
5:B:425:ILE:H	5:B:425:ILE:HD12	1.83	0.43
6:C:64:THR:HG22	6:C:75:GLN:HA	2.01	0.43
4:S:127:ALA:O	4:S:130:LEU:HB3	2.18	0.43
4:S:200:PHE:HD1	4:S:224:LEU:HD23	1.83	0.43
4:S:762:TYR:CZ	4:S:764:PRO:HG2	2.52	0.43
4:S:775:GLU:HA	4:S:779:TYR:HD2	1.82	0.43
4:S:973:ALA:HB1	4:S:988:VAL:HG12	2.00	0.43
4:S:3172:LYS:NZ	4:S:3782:SER:O	2.36	0.43
4:S:4074:PHE:HA	4:S:4077:TYR:CD2	2.54	0.43
4:S:4103:GLN:O	4:S:4107:LEU:HB2	2.18	0.43
5:T:58:THR:O	5:T:62:MET:HG2	2.19	0.43
5:T:143:LEU:HD11	5:T:168:LEU:HD11	1.99	0.43
6:U:38:ILE:HG13	6:U:94:ILE:CG2	2.48	0.43
7:V:21:DA:N7	8:W:35:DT:N3	2.65	0.43
7:V:31:DA:H5''	8:W:29:DG:N3	2.33	0.43
7:V:35:DT:H1'	7:V:36:DA:H2'	1.98	0.43
8:W:32:DT:H6	8:W:33:DA:N1	2.15	0.43
3:X:178:ARG:NH1	3:X:179:LEU:HD23	2.33	0.43
3:Y:8:LEU:HD13	3:Y:35:ALA:O	2.18	0.43
1:L:43:TRP:HD1	1:L:115:LYS:HB2	1.82	0.43
1:N:153:ARG:NH1	1:N:157:ASP:OD2	2.39	0.43
1:O:166:VAL:HG22	2:P:847:PHE:CD2	2.51	0.43
2:P:708:ARG:O	2:P:712:ILE:HG12	2.18	0.43
2:P:711:ASN:HB2	6:H:330:GLN:NE2	2.33	0.43
2:P:819:TYR:CD1	2:P:863:VAL:HG12	2.54	0.43
3:Q:17:GLN:HB2	3:Q:83:LEU:HD21	2.01	0.43
3:Q:47:GLU:HB2	3:Q:123:CYS:SG	2.59	0.43
3:Q:141:GLY:HA2	3:R:202:CYS:HA	1.99	0.43
3:R:151:ARG:HD3	3:R:151:ARG:HA	1.70	0.43
4:F:86:LEU:HB3	4:F:129:ASP:CB	2.48	0.43
4:F:359:LEU:O	4:F:363:ILE:HG12	2.18	0.43
4:F:418:ALA:HB3	4:F:463:LYS:NZ	2.32	0.43
4:F:559:SER:OG	4:F:560:LEU:N	2.52	0.43
4:F:766:ALA:O	4:F:770:LEU:HG	2.18	0.43
4:F:978:GLN:HG2	4:F:2597:PHE:HA	2.00	0.43
4:F:1034:ARG:HD2	4:F:1085:ILE:HA	1.99	0.43
4:F:1059:LEU:O	4:F:1063:LEU:HD23	2.18	0.43
4:F:1778:PHE:O	4:F:1781:SER:OG	2.33	0.43
4:F:1909:ASN:HB2	4:F:1910:GLU:H	1.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2388:LYS:HZ3	5:G:155:SER:C	2.23	0.43
4:F:2586:PHE:HB3	4:F:2776:ARG:HD2	2.00	0.43
4:F:3411:ASP:O	4:F:3415:THR:HG23	2.18	0.43
4:F:3467:ARG:HD2	4:F:4000:ASN:ND2	2.34	0.43
4:F:3531:TYR:HA	4:F:3534:ILE:HG22	2.00	0.43
4:F:3727:THR:OG1	4:F:3737:ARG:O	2.35	0.43
4:F:3774:ILE:HG23	4:F:3786:LEU:HD13	2.01	0.43
4:F:3971:MET:SD	4:F:3974:MET:HB2	2.58	0.43
5:G:44:ALA:HB1	5:G:131:PHE:HZ	1.82	0.43
5:G:433:GLN:HG3	6:H:354:ARG:HB2	1.99	0.43
6:H:290:GLN:HE21	6:H:292:GLU:HB3	1.83	0.43
8:J:31:DT:H2"	8:J:32:DT:OP2	2.17	0.43
4:A:572:VAL:HA	4:A:575:ILE:HD12	1.99	0.43
4:A:894:PHE:O	4:A:904:VAL:HA	2.18	0.43
4:A:970:LEU:HD21	4:A:1012:ALA:HB1	1.99	0.43
4:A:1358:LEU:HD23	4:A:1360:LYS:H	1.84	0.43
4:A:1413:ASP:O	4:A:1417:THR:HG23	2.18	0.43
4:A:1576:ASP:HA	4:A:1579:VAL:HG12	2.01	0.43
4:A:1633:TRP:CD2	4:A:1645:VAL:HG21	2.53	0.43
4:A:1837:ARG:NH1	4:A:1838:GLU:HG3	2.33	0.43
4:A:2098:THR:C	4:A:2102:LYS:HZ2	2.27	0.43
4:A:2224:PHE:HA	4:A:2231:PHE:CE1	2.53	0.43
4:A:2344:LEU:HA	4:A:2347:LYS:HE2	2.00	0.43
4:A:2538:ARG:O	4:A:2542:LEU:HG	2.18	0.43
4:A:2582:SER:HB3	4:A:2780:LEU:HB3	2.01	0.43
4:A:3305:SER:O	4:A:3313:SER:OG	2.32	0.43
4:A:3467:ARG:O	4:A:3470:GLN:HG2	2.18	0.43
4:A:3733:ARG:HH21	4:A:3755:GLY:H	1.65	0.43
4:A:3805:TRP:CG	4:A:3806:LEU:N	2.86	0.43
4:A:4043:LYS:NZ	4:A:4066:LEU:HD22	2.34	0.43
6:C:40:MET:HG3	6:C:235:CYS:CA	2.45	0.43
6:C:339:CYS:O	6:C:396:ALA:N	2.40	0.43
6:C:345:PHE:CE2	6:C:391:ALA:HB2	2.53	0.43
6:C:443:LYS:HG3	6:C:444:TYR:CD2	2.54	0.43
4:S:292:SER:O	4:S:295:GLU:HG2	2.19	0.43
4:S:631:ARG:NH2	4:S:668:LYS:HD3	2.33	0.43
4:S:918:ALA:HB3	4:S:934:LEU:HD12	2.00	0.43
4:S:943:GLY:HA3	4:S:2783:ILE:HD12	2.00	0.43
4:S:979:VAL:HG23	4:S:982:GLN:HE21	1.84	0.43
4:S:994:TRP:HE3	4:S:2780:LEU:HD22	1.83	0.43
4:S:1122:GLY:C	4:S:1124:ILE:N	2.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1436:LEU:HD12	4:S:1507:CYS:HB3	2.00	0.43
4:S:2372:PRO:O	4:S:2404:ARG:NH1	2.43	0.43
4:S:2444:PRO:HA	4:S:2479:TRP:CH2	2.53	0.43
4:S:3771:MET:HE1	4:S:3914:SER:CA	2.49	0.43
4:S:3789:ARG:HH11	4:S:3806:LEU:HD22	1.84	0.43
4:S:4125:GLU:HG3	4:S:4127:TRP:NE1	2.34	0.43
5:T:283:PRO:HA	5:T:284:PRO:HD3	1.94	0.43
6:U:219:ASP:OD1	6:U:220:GLY:N	2.51	0.43
6:U:394:ARG:HE	6:U:403:PRO:HB3	1.83	0.43
1:K:42:ALA:HB3	1:K:116:VAL:HG11	2.01	0.43
1:K:75:LEU:HA	1:K:75:LEU:HD23	1.69	0.43
1:K:107:ARG:HA	1:K:107:ARG:HD3	1.88	0.43
1:K:181:ILE:HG21	2:M:770:ASP:O	2.18	0.43
1:L:138:GLN:O	1:L:142:GLU:HG2	2.19	0.43
2:M:738:TRP:HB2	2:M:753:HIS:CD2	2.54	0.43
1:N:63:LYS:N	3:Q:111:GLU:O	2.52	0.43
2:P:700:VAL:HB	2:P:720:VAL:HA	2.00	0.43
2:P:893:TRP:HA	2:P:904:GLN:HB2	2.00	0.43
3:Q:37:LEU:HD21	3:Q:135:LEU:HD21	2.01	0.43
4:F:410:MET:HB3	4:F:442:GLN:NE2	2.34	0.43
4:F:538:ASP:HA	4:F:541:MET:SD	2.59	0.43
4:F:634:LEU:N	4:F:635:PRO:HD2	2.34	0.43
4:F:668:LYS:HD2	4:F:669:LEU:N	2.33	0.43
4:F:772:ALA:HB1	4:F:776:TRP:CZ2	2.53	0.43
4:F:1136:ARG:HA	4:F:1139:GLU:HG3	1.99	0.43
4:F:1754:GLN:HE22	4:F:1788:ARG:HB3	1.83	0.43
4:F:2466:SER:C	4:F:2470:ARG:HE	2.27	0.43
4:F:3254:LEU:HB2	4:F:3287:ARG:NH2	2.32	0.43
4:F:3256:MET:O	4:F:3260:LYS:HG3	2.19	0.43
4:F:3284:SER:O	4:F:3288:SER:N	2.51	0.43
4:F:3443:PRO:HB3	4:F:3471:ILE:HD11	2.01	0.43
4:F:3582:GLU:HB3	4:F:3586:LYS:HZ1	1.84	0.43
4:F:3585:PHE:CE2	4:F:3664:ASN:HA	2.53	0.43
4:F:3812:LEU:HD22	4:F:3925:LEU:HD11	2.00	0.43
4:F:3924:HIS:HB2	4:F:4125:GLU:OE1	2.17	0.43
4:F:3925:LEU:HA	4:F:3928:PHE:CD2	2.48	0.43
4:F:4073:ALA:O	4:F:4077:TYR:N	2.40	0.43
5:G:276:LEU:O	6:H:431:ARG:N	2.51	0.43
5:G:278:GLN:HB3	6:H:431:ARG:HH21	1.84	0.43
5:G:363:ARG:HG3	5:G:436:PHE:CE1	2.53	0.43
6:H:343:LEU:HD21	6:H:394:ARG:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I:39:DA:C2	8:J:18:DA:N7	2.86	0.43
4:A:189:MET:HG2	4:A:234:PHE:HZ	1.83	0.43
4:A:220:LEU:O	4:A:224:LEU:HG	2.19	0.43
4:A:306:VAL:HG23	4:A:309:LYS:HE2	2.00	0.43
4:A:723:ASP:C	4:A:725:LEU:H	2.26	0.43
4:A:1071:ASN:ND2	4:A:1074:LYS:HG3	2.33	0.43
4:A:1132:ASP:HB3	4:A:1136:ARG:HH21	1.83	0.43
4:A:1734:PRO:HB2	4:A:1735:ARG:NH1	2.33	0.43
4:A:2094:MET:O	4:A:2098:THR:N	2.37	0.43
4:A:2479:TRP:NE1	4:A:2483:ASN:HD21	2.16	0.43
4:A:2510:LEU:HD21	4:A:2525:TRP:CD1	2.53	0.43
4:A:2552:VAL:HA	4:A:2851:PHE:CE2	2.54	0.43
4:A:3315:TYR:HB2	4:A:3326:GLN:HE22	1.84	0.43
4:A:3658:ASP:N	4:A:3658:ASP:OD1	2.47	0.43
4:A:3737:ARG:HH21	4:A:3739:ILE:HD11	1.84	0.43
6:C:299:ASP:N	6:C:301:ASP:OD1	2.51	0.43
4:S:249:PHE:HA	4:S:252:VAL:HG12	2.00	0.43
4:S:335:LYS:HA	4:S:338:LEU:HG	2.00	0.43
4:S:776:TRP:O	4:S:780:ILE:HG22	2.18	0.43
4:S:990:GLN:NE2	4:S:2776:ARG:O	2.52	0.43
4:S:1945:TYR:HE2	4:S:2097:LEU:HG	1.84	0.43
4:S:2268:LYS:HD2	4:S:2315:VAL:HG22	1.99	0.43
4:S:2572:TYR:O	4:S:2787:HIS:HB2	2.18	0.43
4:S:3032:SER:OG	4:S:3038:GLU:OE2	2.26	0.43
4:S:3853:GLY:N	4:S:3856:MET:HB2	2.31	0.43
4:S:3908:HIS:HD2	4:S:3928:PHE:CE1	2.35	0.43
4:S:4086:ASP:OD1	4:S:4086:ASP:N	2.49	0.43
5:T:428:THR:O	5:T:428:THR:OG1	2.35	0.43
5:T:437:LEU:HD13	6:U:479:THR:OG1	2.18	0.43
6:U:453:ALA:HB2	6:U:536:LEU:HD23	2.00	0.43
6:U:609:PHE:HB3	6:U:612:ALA:HB3	1.99	0.43
3:X:184:PHE:O	3:Y:153:LEU:HD21	2.19	0.43
1:K:137:ASN:N	1:L:134:ILE:O	2.51	0.43
1:K:157:ASP:OD2	2:M:841:LYS:NZ	2.51	0.43
1:L:84:TYR:CZ	1:L:99:LYS:HG3	2.53	0.43
2:M:815:ARG:HD2	2:M:815:ARG:HA	1.81	0.43
1:O:169:LYS:O	1:O:173:GLU:HB2	2.19	0.43
1:O:188:LYS:HA	1:O:188:LYS:HD2	1.75	0.43
3:Q:31:LYS:NZ	3:Q:73:LEU:HD23	2.33	0.43
3:R:127:SER:O	3:R:131:VAL:HG23	2.19	0.43
3:R:218:TYR:O	3:R:222:THR:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:71:LYS:HB3	4:F:78:PHE:CG	2.54	0.43
4:F:175:TYR:HA	4:F:225:LYS:N	2.25	0.43
4:F:276:ALA:HB2	4:F:315:ALA:HA	2.00	0.43
4:F:975:ASP:O	4:F:981:ARG:HB2	2.19	0.43
4:F:1060:PHE:HE2	4:F:1095:LEU:HD22	1.83	0.43
4:F:1306:ILE:HG13	4:F:1307:ILE:N	2.34	0.43
4:F:1958:GLU:H	4:F:1958:GLU:CD	2.23	0.43
4:F:2307:MET:SD	4:F:2320:ALA:HB2	2.59	0.43
4:F:2365:ASN:HB2	4:F:2396:LEU:HD21	2.01	0.43
4:F:2375:ALA:HB3	4:F:2404:ARG:HH11	1.84	0.43
4:F:2470:ARG:HB3	4:F:2474:TYR:CZ	2.54	0.43
4:F:2863:CYS:HA	4:F:2869:LEU:HD23	2.00	0.43
4:F:3442:TYR:O	4:F:3446:VAL:HG13	2.19	0.43
4:F:3880:ALA:HA	4:F:3966:GLN:OE1	2.18	0.43
5:G:147:LEU:HA	5:G:150:CYS:SG	2.59	0.43
5:G:470:ARG:HH12	6:H:347:LYS:NZ	2.17	0.43
5:G:473:TYR:HB2	6:H:346:CYS:SG	2.58	0.43
6:H:131:HIS:HE1	6:H:222:ASP:HB2	1.82	0.43
6:H:184:ARG:HG2	6:H:519:PRO:HD3	2.00	0.43
6:H:335:SER:HB2	6:H:394:ARG:NH2	2.34	0.43
8:J:16:DA:H3'	8:J:17:DT:N3	2.33	0.43
4:A:525:LYS:C	4:A:527:TYR:H	2.26	0.43
4:A:574:LYS:HB3	4:A:578:LYS:NZ	2.34	0.43
4:A:1157:PHE:HE1	4:A:1171:TRP:CD2	2.36	0.43
4:A:1396:PRO:O	4:A:1399:CYS:HB2	2.18	0.43
4:A:1676:ILE:HD13	4:A:1679:LEU:HD12	2.00	0.43
4:A:2384:PHE:CE1	5:B:198:ILE:HD11	2.54	0.43
4:A:2547:SER:O	4:A:2550:ILE:HG12	2.19	0.43
4:A:3175:PRO:HG2	4:A:3178:ILE:HG12	2.00	0.43
4:A:3733:ARG:NE	4:A:3754:GLY:HA2	2.32	0.43
5:B:82:LEU:HB2	5:B:108:LEU:HD22	2.00	0.43
5:B:392:LYS:CB	6:C:458:ILE:HD13	2.49	0.43
5:B:399:ARG:HH11	5:B:408:PRO:HG2	1.82	0.43
6:C:361:VAL:HG22	6:C:421:TYR:O	2.19	0.43
4:S:46:SER:HB3	4:S:834:LEU:HG	2.01	0.43
4:S:411:PRO:HG2	4:S:453:MET:HG3	2.00	0.43
4:S:784:VAL:O	4:S:787:PRO:HD2	2.18	0.43
4:S:924:ARG:HA	4:S:927:LYS:HB3	2.00	0.43
4:S:988:VAL:O	4:S:992:ILE:HG12	2.19	0.43
4:S:1228:GLY:HA2	4:S:1233:SER:HB2	2.01	0.43
4:S:1331:ASN:HB3	4:S:1384:PHE:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1394:HIS:O	4:S:1398:VAL:HG12	2.19	0.43
4:S:1436:LEU:HB2	4:S:1507:CYS:SG	2.59	0.43
4:S:1485:SER:HA	4:S:1488:TYR:HB3	2.01	0.43
4:S:1487:VAL:HG21	4:S:1563:PHE:HE2	1.84	0.43
4:S:3589:SER:HB2	4:S:3664:ASN:HB2	2.00	0.43
4:S:3838:GLU:OE1	4:S:3874:ARG:HD2	2.17	0.43
5:T:123:LYS:O	5:T:126:GLN:NE2	2.51	0.43
5:T:340:PHE:CE1	6:U:508:ILE:HG21	2.54	0.43
5:T:349:GLY:HA2	6:U:463:LEU:HD22	2.01	0.43
6:U:496:HIS:CG	6:U:500:HIS:HE1	2.36	0.43
6:U:606:LYS:HG3	6:U:649:PHE:CD2	2.52	0.43
1:K:181:ILE:HD12	2:M:774:LEU:N	2.33	0.43
2:M:725:TRP:HB2	2:M:742:PHE:HB2	2.00	0.43
1:O:150:ARG:HG3	1:O:151:LEU:N	2.32	0.43
3:Q:75:HIS:NE2	3:Q:112:LEU:HD21	2.33	0.43
3:Q:164:ILE:HG23	3:R:167:TYR:HE2	1.84	0.43
4:F:50:VAL:O	4:F:53:LEU:HB3	2.18	0.43
4:F:301:CYS:HB3	4:F:316:LEU:HD13	1.99	0.43
4:F:459:ARG:O	4:F:462:VAL:HG22	2.19	0.43
4:F:528:VAL:HG12	4:F:633:ILE:HG12	2.01	0.43
4:F:583:LEU:HA	4:F:615:ALA:H	1.84	0.43
4:F:786:GLN:HA	4:F:789:TYR:CZ	2.54	0.43
4:F:826:PHE:HB3	4:F:828:LYS:NZ	2.34	0.43
4:F:890:LYS:HG3	4:F:906:PHE:HD2	1.83	0.43
4:F:973:ALA:HB1	4:F:985:GLU:HA	1.99	0.43
4:F:976:VAL:HA	4:F:981:ARG:NH2	2.33	0.43
4:F:1002:GLU:OE1	4:F:1002:GLU:N	2.47	0.43
4:F:1505:LEU:HA	4:F:1508:LYS:HD2	2.00	0.43
4:F:1709:GLU:OE1	4:F:1709:GLU:N	2.42	0.43
4:F:2184:TYR:HE1	4:F:2734:ARG:HD2	1.82	0.43
4:F:2356:MET:HE1	4:F:2360:PHE:N	2.32	0.43
4:F:3324:ARG:NE	4:F:3388:ALA:O	2.42	0.43
4:F:3632:PHE:HZ	4:F:3673:ASP:N	2.17	0.43
4:F:3985:VAL:HG13	4:F:4100:GLU:HB3	2.01	0.43
4:F:4085:LYS:O	4:F:4089:ILE:HG23	2.18	0.43
5:G:47:ALA:O	5:G:171:ASN:ND2	2.52	0.43
5:G:350:PHE:H	6:H:463:LEU:HB2	1.84	0.43
5:G:470:ARG:HH12	6:H:347:LYS:HZ2	1.66	0.43
6:H:10:VAL:HG13	6:H:132:ILE:HG22	2.00	0.43
6:H:161:LEU:HD12	6:H:162:GLN:N	2.34	0.43
6:H:163:PHE:CZ	6:H:165:LEU:HA	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:266:SER:HB3	6:H:363:LYS:HG3	2.00	0.43
6:H:406:GLY:HA3	6:H:421:TYR:CE1	2.54	0.43
4:A:72:SER:HB2	4:A:117:LYS:HZ3	1.83	0.43
4:A:105:VAL:O	4:A:108:LYS:HG2	2.18	0.43
4:A:865:GLN:O	4:A:869:ASN:ND2	2.24	0.43
4:A:1058:SER:O	4:A:1061:LYS:HG2	2.19	0.43
4:A:1889:VAL:HA	4:A:1894:SER:HB2	2.01	0.43
4:A:2414:GLN:O	4:A:2418:LYS:N	2.23	0.43
4:A:3271:ASP:HA	4:A:3274:VAL:HG22	2.01	0.43
4:A:3527:GLN:HA	4:A:3530:VAL:HG12	2.00	0.43
4:A:3733:ARG:NH2	4:A:3755:GLY:H	2.15	0.43
4:A:4063:GLU:O	4:A:4064:LEU:HD23	2.19	0.43
5:B:294:GLU:OE2	6:C:297:LEU:HD22	2.19	0.43
5:B:369:TYR:HB2	6:C:433:TYR:HD2	1.84	0.43
5:B:509:PRO:HB2	5:B:512:GLU:HG2	1.99	0.43
9:D:30:DA:H2	10:E:28:DA:C2	2.37	0.43
9:D:33:DA:N7	10:E:23:DT:C2	2.87	0.43
4:S:250:ASN:OD1	4:S:300:TRP:NE1	2.52	0.43
4:S:468:LEU:CD1	4:S:475:LEU:HA	2.49	0.43
4:S:578:LYS:HE3	4:S:578:LYS:HB3	1.87	0.43
4:S:583:LEU:HB3	4:S:620:PHE:CE2	2.53	0.43
4:S:733:LEU:HD22	4:S:748:TYR:CE1	2.53	0.43
4:S:1331:ASN:OD1	4:S:1385:ASN:N	2.51	0.43
4:S:1338:VAL:HG13	4:S:1342:MET:HE3	2.00	0.43
4:S:1785:ILE:HA	4:S:1788:ARG:HB2	1.99	0.43
4:S:2201:THR:HA	4:S:2202:PRO:HD3	1.91	0.43
4:S:2526:SER:O	4:S:2538:ARG:NH1	2.52	0.43
4:S:3410:ILE:HG22	4:S:3414:MET:HE3	1.99	0.43
5:T:347:LEU:HD11	5:T:349:GLY:O	2.18	0.43
6:U:245:ILE:HD12	8:W:36:DG:H4'	2.00	0.43
6:U:313:GLY:HA2	6:U:321:VAL:O	2.18	0.43
6:U:602:VAL:HG21	6:U:642:PHE:CE1	2.54	0.43
3:Y:15:TRP:NE1	3:Y:18:LEU:HB2	2.33	0.43
2:M:723:PRO:O	2:M:727:LEU:HG	2.19	0.43
2:M:740:PRO:HB3	2:M:754:PHE:CD2	2.53	0.43
2:P:793:ALA:HA	2:P:814:ARG:HH11	1.84	0.43
3:Q:26:LYS:O	3:Q:36:LEU:HA	2.18	0.43
4:F:740:ILE:HG13	4:F:741:ILE:N	2.34	0.43
4:F:835:LYS:HA	4:F:835:LYS:HD3	1.88	0.43
4:F:864:GLY:C	4:F:868:LYS:HZ2	2.27	0.43
4:F:888:ARG:HD2	4:F:3890:MET:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1249:SER:OG	4:F:1310:GLU:OE1	2.35	0.43
4:F:1730:PRO:HD2	4:F:1733:THR:HG21	2.00	0.43
4:F:2507:ILE:O	4:F:2510:LEU:HB3	2.19	0.43
4:F:2815:GLY:HA2	4:F:2818:LYS:HG2	2.01	0.43
4:F:2833:THR:HG23	4:F:2868:LEU:HD22	2.01	0.43
4:F:2852:PRO:O	4:F:2856:SER:OG	2.28	0.43
4:F:3041:LEU:O	4:F:3045:ILE:HG12	2.19	0.43
4:F:3235:LYS:O	4:F:3239:LYS:HG3	2.19	0.43
4:F:4083:GLY:HA3	4:F:4088:ASN:C	2.44	0.43
6:H:251:LEU:HD13	6:H:340:PHE:HD2	1.84	0.43
6:H:446:PRO:HA	6:H:450:GLN:OE1	2.19	0.43
4:A:675:ARG:O	4:A:679:LYS:HG3	2.19	0.43
4:A:1069:HIS:CE1	4:A:1071:ASN:HB2	2.53	0.43
4:A:2424:MET:HB3	4:A:2461:PHE:HZ	1.83	0.43
4:A:2796:ALA:O	4:A:2799:GLN:HG2	2.19	0.43
4:A:3259:LEU:HA	4:A:3259:LEU:HD12	1.53	0.43
4:A:3260:LYS:HA	4:A:3260:LYS:HD3	1.71	0.43
4:A:3710:LYS:HD2	4:A:3711:PRO:O	2.18	0.43
4:A:3860:LYS:NZ	4:A:4072:PRO:HB2	2.34	0.43
6:C:12:LEU:HD13	6:C:133:GLU:O	2.19	0.43
6:C:76:ASN:ND2	6:C:103:GLN:HG2	2.34	0.43
6:C:84:MET:SD	6:C:90:LEU:HD22	2.59	0.43
10:E:24:DT:H5''	10:E:25:DT:H5''	2.01	0.43
10:E:31:DT:H6	10:E:31:DT:H2'	1.59	0.43
4:S:1019:ASP:OD1	4:S:1026:ARG:HD3	2.19	0.43
4:S:1078:ALA:HA	4:S:1127:CYS:HB3	2.01	0.43
4:S:1131:ILE:HG13	4:S:1132:ASP:N	2.34	0.43
4:S:3451:LEU:HD12	4:S:3454:LEU:HB3	2.00	0.43
4:S:3992:ARG:C	4:S:3995:PRO:HD2	2.44	0.43
5:T:74:LYS:HB2	5:T:111:PRO:HG3	2.00	0.43
5:T:351:LYS:HB2	5:T:397:LEU:HD22	2.00	0.43
5:T:353:LEU:O	5:T:353:LEU:HD23	2.19	0.43
5:T:474:ARG:NE	5:T:475:SER:H	2.16	0.43
6:U:88:PHE:CD1	6:U:494:LEU:HB3	2.54	0.43
6:U:107:PHE:CE1	6:U:136:THR:HG21	2.53	0.43
6:U:509:GLN:HG3	6:U:511:HIS:ND1	2.34	0.43
3:X:193:PHE:HB3	3:Y:220:ALA:HB3	2.01	0.43
1:L:35:THR:HB	1:L:44:THR:HA	2.01	0.43
2:M:669:GLY:H	2:M:675:LYS:HB2	1.84	0.43
1:N:198:LEU:HD13	1:O:197:LYS:HB3	2.00	0.43
2:P:660:GLU:HG2	2:P:686:GLY:C	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:889:LEU:HD21	2:P:906:GLU:HG2	2.01	0.43
2:P:893:TRP:HB2	2:P:909:TYR:CE2	2.54	0.43
3:R:217:LEU:HD12	3:R:220:ALA:HB3	2.00	0.43
4:F:212:VAL:HB	5:G:339:ARG:NH1	2.34	0.43
4:F:425:ASP:OD1	4:F:425:ASP:N	2.45	0.43
4:F:1406:LEU:HA	4:F:1409:SER:HB3	2.00	0.43
4:F:1457:GLN:HA	4:F:1460:ARG:HE	1.84	0.43
4:F:1843:ILE:HB	4:F:1846:ASP:HB3	2.01	0.43
4:F:2133:LEU:HG	4:F:2167:PRO:HB3	2.01	0.43
4:F:2809:PHE:O	4:F:2810:SER:C	2.61	0.43
4:F:3614:TYR:HA	4:F:3618:GLY:CA	2.47	0.43
4:F:3640:PHE:HB2	4:F:3667:LEU:HD12	2.00	0.43
4:F:3851:ASP:OD1	4:F:3851:ASP:N	2.50	0.43
4:F:3920:ILE:HD12	4:F:3942:PHE:HA	2.01	0.43
5:G:356:LEU:HG	6:H:353:ARG:NH1	2.33	0.43
5:G:371:GLU:OE2	5:G:373:SER:OG	2.29	0.43
5:G:532:PRO:HB2	6:H:259:ILE:HA	2.01	0.43
6:H:662:LEU:HA	6:H:665:LYS:HZ2	1.84	0.43
4:A:133:LYS:O	4:A:137:THR:HG23	2.18	0.43
4:A:213:ARG:HB2	5:B:405:ASN:HD22	1.84	0.43
4:A:1169:VAL:HB	4:A:1198:LEU:HD21	2.01	0.43
4:A:2087:GLU:CD	4:A:2185:MET:HG3	2.44	0.43
4:A:2401:VAL:O	4:A:2405:VAL:N	2.51	0.43
4:A:3334:TYR:CB	4:A:3381:ALA:HB2	2.49	0.43
4:A:3863:ASN:O	4:A:3867:THR:OG1	2.25	0.43
5:B:240:GLU:CD	5:B:240:GLU:H	2.27	0.43
5:B:389:CYS:SG	5:B:392:LYS:HE2	2.59	0.43
5:B:406:ILE:O	5:B:408:PRO:HD3	2.19	0.43
5:B:442:ASP:HB2	6:C:268:LEU:HB3	2.01	0.43
6:C:47:PHE:HD2	6:C:238:LYS:HZ1	1.65	0.43
6:C:336:GLU:HB2	6:C:339:CYS:SG	2.58	0.43
9:D:25:DA:H1'	10:E:32:DT:H5''	2.00	0.43
4:S:63:PHE:CE2	4:S:67:VAL:HG11	2.53	0.43
4:S:100:ILE:HG23	4:S:104:SER:HB3	2.01	0.43
4:S:204:LEU:HB3	4:S:249:PHE:CD2	2.46	0.43
4:S:272:LEU:HD12	4:S:308:LEU:CD1	2.49	0.43
4:S:1270:PHE:HB3	4:S:1276:VAL:CG1	2.49	0.43
4:S:2228:ARG:NH1	7:V:44:DG:OP1	2.51	0.43
4:S:2326:ILE:HG22	4:S:2327:LEU:HD12	2.01	0.43
4:S:2467:THR:O	4:S:2471:GLU:HB3	2.18	0.43
4:S:2563:LEU:HD23	4:S:2795:GLN:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3137:GLU:CB	4:S:3185:ASN:HD22	2.32	0.43
4:S:3189:PHE:O	4:S:3192:LYS:N	2.51	0.43
4:S:3451:LEU:HB2	4:S:3468:LEU:HD11	2.00	0.43
4:S:3680:LEU:HD23	4:S:3688:SER:OG	2.19	0.43
4:S:3781:CYS:SG	4:S:3990:ALA:HB3	2.59	0.43
4:S:3913:ILE:HG12	4:S:3987:ALA:HB3	2.01	0.43
5:T:88:TYR:CD2	5:T:141:TYR:HB2	2.54	0.43
5:T:204:HIS:HB2	5:T:207:LYS:O	2.19	0.43
5:T:270:SER:OG	5:T:374:LEU:HD23	2.19	0.43
5:T:363:ARG:CZ	8:W:28:DA:H3'	2.49	0.43
6:U:30:PRO:HA	6:U:33:GLN:HE21	1.84	0.43
6:U:66:ASN:HB2	6:U:69:SER:HA	2.01	0.43
6:U:263:ALA:HB1	6:U:362:LEU:HB3	2.01	0.43
6:U:496:HIS:ND1	6:U:504:PRO:O	2.50	0.43
7:V:38:DT:H1'	8:W:21:DA:H2	1.84	0.43
1:K:18:HIS:CD2	1:K:36:LEU:HG	2.54	0.42
2:M:657:ASN:O	2:M:660:GLU:HB2	2.19	0.42
2:M:710:LYS:HD3	2:M:713:ILE:HD12	1.99	0.42
2:M:740:PRO:HB3	2:M:754:PHE:CG	2.54	0.42
1:O:22:VAL:HG12	1:O:24:TRP:HE3	1.84	0.42
3:Q:117:PHE:CZ	3:Q:119:TRP:HB2	2.54	0.42
3:Q:137:ARG:HA	3:R:204:ILE:HD11	2.01	0.42
4:F:395:MET:HE2	4:F:409:GLN:HG3	2.01	0.42
4:F:857:GLN:HE22	4:F:3139:GLN:HB2	1.83	0.42
4:F:956:PRO:N	4:F:957:PRO:HD3	2.34	0.42
4:F:1221:ILE:HD12	4:F:1221:ILE:HA	1.94	0.42
4:F:1538:LEU:HD13	4:F:1553:PHE:CE1	2.54	0.42
4:F:1538:LEU:CB	4:F:1553:PHE:H	2.32	0.42
4:F:2386:LEU:HB2	4:F:2397:CYS:SG	2.59	0.42
4:F:2525:TRP:HA	4:F:2530:ARG:HB3	2.01	0.42
4:F:3020:ASP:O	4:F:3030:ILE:HG21	2.19	0.42
4:F:3254:LEU:HB2	4:F:3287:ARG:HH21	1.84	0.42
4:F:3363:SER:HA	4:F:3380:ARG:NE	2.34	0.42
4:F:3557:ARG:O	4:F:3560:SER:OG	2.24	0.42
4:F:3998:LEU:HB3	4:F:4002:MET:HE1	2.00	0.42
5:G:191:GLY:O	5:G:195:ASP:HB2	2.18	0.42
6:H:335:SER:HB2	6:H:403:PRO:HG3	2.01	0.42
6:H:340:PHE:CZ	6:H:393:VAL:HG11	2.54	0.42
6:H:500:HIS:HB2	6:H:503:GLU:HG3	2.00	0.42
8:J:15:DA:C4	8:J:16:DA:H5'	2.54	0.42
8:J:22:DG:H3'	8:J:23:DT:C5	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:J:37:DG:H1'	8:J:38:DG:H4'	2.00	0.42
4:A:960:GLN:HA	4:A:963:LYS:HG2	2.01	0.42
4:A:1217:VAL:N	4:A:1284:THR:OG1	2.52	0.42
4:A:1418:HIS:HA	4:A:1421:GLU:CD	2.43	0.42
4:A:1455:CYS:O	4:A:1464:LEU:HD22	2.18	0.42
4:A:2356:MET:HE1	4:A:2359:LYS:HB2	2.00	0.42
4:A:2426:HIS:CD2	4:A:2428:ASP:HB2	2.53	0.42
4:A:2452:ARG:HD2	4:A:2494:ASP:CG	2.44	0.42
4:A:2526:SER:O	4:A:2538:ARG:NH2	2.52	0.42
4:A:3103:ILE:HD12	4:A:3103:ILE:HA	1.84	0.42
4:A:3141:PHE:CZ	4:A:3192:LYS:HB3	2.53	0.42
4:A:3884:LYS:O	4:A:3888:VAL:HG23	2.18	0.42
4:A:4108:MET:O	4:A:4112:THR:HG22	2.19	0.42
5:B:168:LEU:HD12	5:B:169:PHE:N	2.33	0.42
5:B:303:PHE:N	6:C:290:GLN:O	2.45	0.42
5:B:311:LEU:HD12	5:B:311:LEU:HA	1.91	0.42
6:C:67:PRO:HD3	6:C:79:VAL:HG11	1.99	0.42
6:C:76:ASN:ND2	6:C:104:GLN:O	2.51	0.42
6:C:212:MET:SD	6:C:220:GLY:HA3	2.59	0.42
6:C:342:VAL:HA	6:C:393:VAL:HA	2.00	0.42
4:S:904:VAL:N	4:S:2819:GLU:HG3	2.34	0.42
4:S:1864:ASP:HA	4:S:1867:ILE:HG22	2.00	0.42
4:S:2223:VAL:HG22	4:S:2234:ASN:HB3	2.01	0.42
4:S:2366:LYS:HA	4:S:2366:LYS:HD2	1.87	0.42
4:S:2410:GLU:OE2	4:S:2413:PHE:N	2.52	0.42
4:S:2503:LYS:HD2	4:S:2545:LEU:HD23	2.01	0.42
4:S:2842:ARG:O	4:S:2846:THR:N	2.45	0.42
4:S:3577:GLN:O	4:S:3629:ARG:HD3	2.19	0.42
4:S:3888:VAL:HG12	4:S:3897:PHE:CE1	2.54	0.42
5:T:34:GLY:HA3	5:T:162:SER:HB3	2.01	0.42
5:T:70:VAL:CG1	5:T:242:LEU:HB3	2.49	0.42
5:T:453:MET:SD	6:U:382:HIS:ND1	2.92	0.42
6:U:129:LYS:NZ	6:U:131:HIS:HB2	2.34	0.42
6:U:274:LYS:HD2	6:U:274:LYS:HA	1.71	0.42
6:U:457:LEU:HB2	6:U:533:ILE:HG12	2.00	0.42
6:U:636:ILE:HA	6:U:639:ILE:HG12	2.01	0.42
6:U:642:PHE:HA	6:U:645:GLU:HB2	2.00	0.42
3:X:160:LYS:O	3:Y:164:ILE:HB	2.19	0.42
3:Y:44:VAL:HG22	3:Y:135:LEU:HG	1.99	0.42
1:L:7:ARG:O	1:L:76:SER:OG	2.31	0.42
1:L:180:PHE:CZ	1:L:184:LEU:HD22	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:757:GLU:HG3	2:M:758:TYR:CD2	2.54	0.42
1:N:93:CYS:SG	1:N:115:LYS:N	2.92	0.42
4:F:105:VAL:HA	4:F:108:LYS:HE2	2.00	0.42
4:F:144:MET:N	4:F:146:GLU:OE1	2.50	0.42
4:F:654:ILE:O	4:F:657:SER:OG	2.24	0.42
4:F:727:ALA:O	4:F:730:LEU:HG	2.19	0.42
4:F:1060:PHE:HB3	4:F:1064:TYR:CZ	2.54	0.42
4:F:1089:PHE:CZ	4:F:1096:VAL:HG12	2.54	0.42
4:F:1626:TRP:CD1	4:F:1627:LYS:HD3	2.54	0.42
4:F:2097:LEU:HD13	4:F:2149:LEU:HD23	2.01	0.42
4:F:2164:TRP:C	4:F:2167:PRO:HD2	2.44	0.42
4:F:2331:MET:HG2	4:F:2334:LYS:HG2	2.01	0.42
4:F:2450:GLU:HA	4:F:2453:GLU:OE2	2.19	0.42
4:F:2534:ASN:ND2	4:F:2536:LEU:HB3	2.33	0.42
4:F:2972:TYR:CE2	4:F:2997:ALA:HB3	2.54	0.42
4:F:3335:ARG:NH2	4:F:3419:PHE:HA	2.34	0.42
4:F:3360:LEU:HD22	4:F:3377:LEU:HD11	2.01	0.42
4:F:3820:MET:HE3	4:F:3882:LEU:HD11	2.00	0.42
4:F:3910:LEU:HA	4:F:3913:ILE:HG22	2.01	0.42
4:F:3975:LYS:C	4:F:3977:THR:H	2.27	0.42
5:G:100:LYS:HA	5:G:100:LYS:HD2	1.87	0.42
5:G:440:ALA:H	6:H:483:PRO:HA	1.84	0.42
4:A:631:ARG:HH11	4:A:668:LYS:HA	1.83	0.42
4:A:752:LEU:HD21	4:A:773:LEU:HD13	2.01	0.42
4:A:763:THR:O	4:A:846:ILE:HG22	2.19	0.42
4:A:933:LEU:HG	4:A:2793:PRO:HB2	2.01	0.42
4:A:1413:ASP:N	4:A:1413:ASP:OD1	2.51	0.42
4:A:1874:TYR:HB2	4:A:1943:ALA:HB1	2.00	0.42
4:A:2282:ALA:HA	4:A:2325:LEU:HD13	2.01	0.42
4:A:2472:GLN:HE21	4:A:2476:ILE:HG13	1.84	0.42
4:A:3269:ARG:HB2	4:A:3272:TRP:CE2	2.55	0.42
4:A:4013:TRP:HB2	4:A:4038:TRP:CD1	2.54	0.42
5:B:64:ILE:HG23	5:B:119:LEU:HB3	2.00	0.42
5:B:275:ASN:HA	6:C:431:ARG:HH12	1.84	0.42
6:C:147:LEU:HA	6:C:150:ILE:HG12	2.01	0.42
4:S:301:CYS:HB3	4:S:312:ALA:CB	2.49	0.42
4:S:407:VAL:HB	4:S:449:TYR:CE1	2.54	0.42
4:S:1138:ILE:HG12	4:S:1145:LEU:HD22	2.00	0.42
4:S:1747:LEU:HD21	4:S:1778:PHE:CD1	2.54	0.42
4:S:2227:LYS:HB3	4:S:2227:LYS:HE3	1.84	0.42
4:S:2253:TYR:CE2	4:S:2289:ASP:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2375:ALA:HA	4:S:2378:PHE:HD1	1.84	0.42
4:S:2438:ILE:HA	4:S:2441:LYS:HD3	2.01	0.42
4:S:2512:ASP:N	4:S:2518:GLN:OE1	2.37	0.42
4:S:3424:LEU:HD22	4:S:3475:TYR:CZ	2.54	0.42
4:S:3626:GLY:HA2	4:S:3682:GLU:HB2	2.00	0.42
5:T:287:LYS:O	5:T:296:VAL:N	2.43	0.42
5:T:348:MET:HE3	6:U:477:PHE:CE2	2.54	0.42
1:K:57:ASP:OD2	3:R:64:ARG:NE	2.41	0.42
1:K:140:LYS:HG2	1:K:143:HIS:HB3	2.02	0.42
1:L:19:PHE:HB2	1:L:37:THR:HG22	1.99	0.42
1:L:181:ILE:HD11	2:M:799:LEU:HD11	2.02	0.42
1:N:172:LEU:HB3	1:O:169:LYS:HE3	2.01	0.42
1:N:178:LYS:O	1:N:182:LEU:HG	2.18	0.42
1:O:42:ALA:HB3	1:O:116:VAL:HG21	2.02	0.42
2:P:654:LYS:NZ	2:P:686:GLY:HA2	2.34	0.42
3:Q:15:TRP:O	3:Q:17:GLN:NE2	2.44	0.42
4:F:90:CYS:O	4:F:93:LEU:HB3	2.19	0.42
4:F:294:PHE:N	4:F:294:PHE:CD1	2.82	0.42
4:F:357:LYS:O	4:F:361:ILE:HG12	2.19	0.42
4:F:364:ARG:NH2	4:F:416:SER:HA	2.34	0.42
4:F:385:TYR:CE2	4:F:428:PRO:HG2	2.54	0.42
4:F:396:PHE:CD2	4:F:397:LEU:HG	2.54	0.42
4:F:722:LYS:O	4:F:726:LEU:N	2.32	0.42
4:F:726:LEU:HD12	4:F:729:CYS:HB2	2.01	0.42
4:F:739:ASN:HA	4:F:742:GLU:CD	2.44	0.42
4:F:802:THR:C	4:F:852:ARG:HH22	2.26	0.42
4:F:1625:HIS:HA	4:F:1628:LYS:NZ	2.34	0.42
4:F:1725:GLN:OE1	4:F:1727:ARG:N	2.36	0.42
4:F:2384:PHE:CE1	5:G:154:PHE:HB3	2.47	0.42
4:F:2397:CYS:O	4:F:2400:VAL:HG22	2.18	0.42
4:F:2466:SER:HB2	4:F:2469:CYS:SG	2.59	0.42
4:F:3072:GLU:H	4:F:3072:GLU:CD	2.27	0.42
4:F:3169:PRO:HB3	4:F:3182:ILE:HG13	2.02	0.42
4:F:3192:LYS:HA	4:F:3195:GLU:CD	2.44	0.42
4:F:3325:ASP:HA	4:F:3328:ILE:HG22	2.00	0.42
4:F:3617:LEU:C	4:F:3637:GLY:HA3	2.44	0.42
4:F:3985:VAL:HG12	4:F:3989:ARG:CZ	2.50	0.42
5:G:165:ARG:NH1	5:G:200:LEU:O	2.53	0.42
5:G:204:HIS:CE1	5:G:239:LEU:HD12	2.54	0.42
5:G:240:GLU:H	5:G:240:GLU:CD	2.23	0.42
5:G:300:THR:HA	6:H:293:THR:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:602:VAL:HG12	6:H:609:PHE:CD2	2.54	0.42
7:I:37:DT:H6	7:I:37:DT:H2'	1.69	0.42
4:A:60:SER:O	4:A:63:PHE:HB3	2.18	0.42
4:A:345:PHE:HA	4:A:348:ILE:HG12	2.02	0.42
4:A:1735:ARG:H	4:A:1735:ARG:HG2	1.61	0.42
4:A:2192:THR:O	4:A:2195:SER:OG	2.38	0.42
4:A:2287:PRO:HB2	4:A:2300:PHE:CZ	2.54	0.42
4:A:2818:LYS:HA	4:A:2821:ASP:OD2	2.19	0.42
4:A:3176:MET:O	4:A:3179:TRP:HB2	2.20	0.42
4:A:3414:MET:HG3	4:A:3460:GLU:OE1	2.19	0.42
4:A:3487:ILE:HG21	4:A:3502:MET:SD	2.59	0.42
5:B:47:ALA:O	5:B:171:ASN:HB2	2.19	0.42
5:B:204:HIS:CG	5:B:214:SER:HB3	2.53	0.42
5:B:403:ARG:NE	9:D:32:DA:OP1	2.39	0.42
4:S:146:GLU:O	4:S:149:ILE:HG12	2.20	0.42
4:S:280:SER:HA	4:S:322:GLN:NE2	2.34	0.42
4:S:532:ARG:NE	4:S:636:GLU:HG3	2.34	0.42
4:S:637:LYS:HA	4:S:637:LYS:HD2	1.85	0.42
4:S:710:PHE:O	4:S:713:GLU:HG3	2.19	0.42
4:S:1070:PRO:HA	4:S:1075:ARG:HH11	1.84	0.42
4:S:1126:GLN:O	4:S:1127:CYS:HB2	2.19	0.42
4:S:1516:GLU:HA	4:S:1519:PHE:CD2	2.54	0.42
4:S:1715:GLU:HB3	6:U:630:PRO:CG	2.44	0.42
4:S:1754:GLN:HG3	4:S:1793:THR:HG21	2.00	0.42
4:S:2548:PRO:O	4:S:2847:THR:OG1	2.29	0.42
4:S:3005:LEU:O	4:S:3010:SER:OG	2.36	0.42
4:S:3008:TRP:O	4:S:3012:GLU:HG3	2.19	0.42
4:S:3078:LEU:HA	4:S:3082:TYR:O	2.19	0.42
4:S:3503:VAL:HA	4:S:3506:LEU:HB3	2.00	0.42
4:S:3805:TRP:HH2	4:S:3940:ILE:HG23	1.83	0.42
4:S:3812:LEU:HD11	4:S:3928:PHE:HB2	2.01	0.42
4:S:4043:LYS:HD3	4:S:4043:LYS:HA	1.93	0.42
4:S:4071:ALA:HB3	4:S:4077:TYR:OH	2.18	0.42
5:T:359:HIS:HD2	6:U:363:LYS:NZ	2.18	0.42
5:T:444:ARG:HH22	6:U:368:ARG:NE	2.18	0.42
6:U:168:SER:HB3	6:U:226:SER:HB2	2.00	0.42
6:U:520:ALA:O	6:U:523:THR:OG1	2.27	0.42
6:U:597:ASN:HD22	6:U:615:GLN:NE2	2.12	0.42
6:U:674:PHE:HB2	6:U:675:TRP:CE3	2.54	0.42
1:K:62:GLU:HA	3:R:115:LEU:O	2.20	0.42
1:L:34:ILE:HD12	1:L:111:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:751:LYS:HA	2:M:754:PHE:CD2	2.54	0.42
1:N:100:ASN:HA	1:N:106:PHE:HB2	2.01	0.42
1:N:191:ILE:HG23	1:O:194:LEU:HD11	2.01	0.42
2:P:741:ARG:HH12	2:P:742:PHE:HB3	1.84	0.42
3:Q:56:GLN:NE2	3:Q:57:ARG:HG3	2.34	0.42
3:Q:106:LEU:HB2	3:Q:121:PHE:H	1.84	0.42
4:F:253:LEU:C	4:F:272:LEU:HD21	2.44	0.42
4:F:305:ASN:HB3	4:F:307:GLU:OE2	2.19	0.42
4:F:614:PRO:HB3	4:F:620:PHE:CE2	2.54	0.42
4:F:672:ILE:HG13	4:F:676:ASN:HD21	1.84	0.42
4:F:924:ARG:O	4:F:928:VAL:HB	2.19	0.42
4:F:1081:ALA:O	4:F:1085:ILE:HG23	2.20	0.42
4:F:1297:PHE:HA	4:F:1301:ILE:HB	2.01	0.42
4:F:1536:ALA:O	4:F:1554:SER:HA	2.20	0.42
4:F:1783:ARG:HB3	4:F:1787:ARG:HH21	1.83	0.42
4:F:2120:ARG:HB3	4:F:2160:TYR:CE1	2.41	0.42
4:F:2339:GLU:HA	4:F:2342:CYS:SG	2.59	0.42
4:F:2587:GLN:HG2	4:F:2777:HIS:O	2.19	0.42
4:F:3029:LYS:HD3	4:F:3033:GLU:OE2	2.19	0.42
4:F:3048:LYS:HA	4:F:3048:LYS:HD3	1.87	0.42
4:F:3591:ASP:HB3	4:F:3609:MET:HE3	2.01	0.42
5:G:327:ILE:HG23	6:H:497:ARG:HB3	2.02	0.42
6:H:129:LYS:HB2	6:H:218:GLU:CD	2.44	0.42
6:H:667:GLU:HA	6:H:675:TRP:CE2	2.54	0.42
6:H:675:TRP:HE3	6:H:675:TRP:H	1.68	0.42
4:A:36:ARG:HE	4:A:2426:HIS:HA	1.85	0.42
4:A:345:PHE:O	4:A:346:TYR:C	2.61	0.42
4:A:710:PHE:O	4:A:713:GLU:HG3	2.18	0.42
4:A:1805:PHE:CE1	4:A:1820:VAL:HG22	2.54	0.42
4:A:1846:ASP:HA	4:A:1849:ASP:OD2	2.19	0.42
4:A:2477:LEU:HD13	4:A:2505:VAL:HG21	2.01	0.42
4:A:3302:LYS:HB3	4:A:3302:LYS:HE3	1.80	0.42
4:A:3330:LEU:HG	4:A:3334:TYR:CZ	2.55	0.42
4:A:3535:ILE:HG13	4:A:3798:SER:CB	2.49	0.42
4:A:4082:ARG:NE	4:A:4095:GLU:OE2	2.48	0.42
6:C:295:TYR:HE2	6:C:307:LYS:HA	1.83	0.42
6:C:461:MET:HE3	6:C:526:SER:OG	2.19	0.42
9:D:42:DA:C2	10:E:15:DA:H1'	2.54	0.42
4:S:363:ILE:HA	4:S:366:TYR:CD2	2.54	0.42
4:S:1711:ARG:NH2	4:S:1715:GLU:OE2	2.52	0.42
4:S:1803:GLU:HA	4:S:1806:ARG:CZ	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2105:HIS:O	4:S:2108:LEU:HB2	2.20	0.42
4:S:2106:ARG:HD3	4:S:2106:ARG:HA	1.75	0.42
4:S:2365:ASN:CG	4:S:2400:VAL:HG22	2.45	0.42
4:S:2572:TYR:HA	4:S:2787:HIS:HB2	2.01	0.42
4:S:2972:TYR:HB3	4:S:2998:SER:CB	2.48	0.42
4:S:3012:GLU:HA	4:S:3047:SER:HB2	2.01	0.42
4:S:3887:PHE:CE1	4:S:3905:ALA:HB2	2.55	0.42
4:S:4090:ARG:NH1	4:S:4109:ASP:OD2	2.52	0.42
5:T:203:MET:HG2	5:T:238:LYS:HG2	2.01	0.42
5:T:407:PRO:HG3	6:U:486:ARG:CA	2.49	0.42
5:T:487:PHE:HA	5:T:490:LEU:HB2	2.01	0.42
6:U:20:MET:SD	6:U:31:PHE:HB2	2.59	0.42
6:U:106:ASP:HB3	6:U:109:ASP:HB2	2.00	0.42
6:U:595:ALA:HB1	6:U:599:ARG:CZ	2.50	0.42
6:U:619:HIS:HE1	6:U:634:LYS:HB3	1.85	0.42
6:U:621:GLU:HB3	6:U:665:LYS:NZ	2.34	0.42
1:K:18:HIS:CG	1:K:38:ASP:HB3	2.54	0.42
1:L:64:GLY:HA3	3:Y:116:PRO:CG	2.50	0.42
1:L:155:TRP:HA	1:L:158:VAL:HG12	2.00	0.42
2:M:706:ASN:H	2:M:709:VAL:HB	1.84	0.42
2:M:738:TRP:CE3	2:M:750:THR:HA	2.54	0.42
2:M:753:HIS:HA	2:M:756:ARG:HB2	2.00	0.42
4:F:738:HIS:HA	4:F:741:ILE:CG1	2.50	0.42
4:F:1345:THR:O	4:F:1349:LEU:HG	2.20	0.42
4:F:1670:GLU:HG3	4:F:1671:VAL:N	2.33	0.42
4:F:1942:CYS:SG	4:F:1943:ALA:N	2.92	0.42
4:F:2097:LEU:HD22	4:F:2149:LEU:HB3	2.01	0.42
4:F:2225:HIS:HB2	4:F:2231:PHE:CB	2.41	0.42
4:F:2288:TYR:HB3	4:F:2300:PHE:CZ	2.55	0.42
4:F:2361:ILE:HD12	4:F:2361:ILE:HA	1.90	0.42
4:F:2757:ILE:HD13	4:F:2757:ILE:HA	1.92	0.42
4:F:3912:CYS:HB3	4:F:3961:PHE:CD1	2.55	0.42
5:G:35:ARG:HH21	5:G:80:ARG:HB3	1.85	0.42
5:G:83:LEU:O	5:G:106:GLN:NE2	2.52	0.42
5:G:264:ASN:OD1	5:G:267:ILE:HG12	2.19	0.42
5:G:384:ALA:HB2	6:H:450:GLN:HB3	2.02	0.42
5:G:469:LEU:HD11	5:G:514:MET:HB2	2.01	0.42
5:G:470:ARG:HD3	6:H:345:PHE:O	2.19	0.42
6:H:207:ILE:O	6:H:210:MET:HG3	2.19	0.42
6:H:252:THR:HA	6:H:257:LEU:O	2.19	0.42
4:A:135:LEU:HD22	4:A:177:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:146:GLU:HB2	4:A:184:VAL:N	2.33	0.42
4:A:623:PHE:O	4:A:627:VAL:HG22	2.19	0.42
4:A:869:ASN:O	4:A:872:THR:OG1	2.23	0.42
4:A:883:TYR:HB3	4:A:3893:SER:HB3	2.02	0.42
4:A:1362:ASP:OD1	4:A:1362:ASP:N	2.50	0.42
4:A:3034:PRO:HB3	4:A:3036:TYR:CZ	2.54	0.42
4:A:3046:ARG:O	4:A:3050:LYS:HG2	2.19	0.42
4:A:3588:TRP:CD2	4:A:3613:MET:HE1	2.54	0.42
4:A:4020:MET:CB	4:A:4027:TRP:HB3	2.46	0.42
5:B:141:TYR:HE2	5:B:143:LEU:HD23	1.85	0.42
9:D:40:DT:H5''	9:D:41:DT:C2	2.55	0.42
4:S:338:LEU:HD12	4:S:339:GLN:HG3	2.02	0.42
4:S:561:ASN:HD22	4:S:564:LEU:HD12	1.84	0.42
4:S:792:ILE:HG22	4:S:796:LEU:HG	2.01	0.42
4:S:1440:ASP:H	4:S:1445:ARG:NH2	2.16	0.42
4:S:2120:ARG:HH11	4:S:2160:TYR:HD1	1.66	0.42
4:S:2379:MET:CE	4:S:2404:ARG:HE	2.31	0.42
4:S:3059:GLN:HB3	4:S:3062:LEU:HB2	2.02	0.42
4:S:3335:ARG:NH1	4:S:3415:THR:HA	2.22	0.42
4:S:3532:PRO:O	4:S:3536:SER:OG	2.37	0.42
4:S:3682:GLU:HA	4:S:3688:SER:HB2	2.01	0.42
4:S:4057:ALA:HB1	4:S:4082:ARG:HA	2.02	0.42
5:T:80:ARG:NH1	8:W:26:DT:OP2	2.52	0.42
5:T:142:SER:HB3	5:T:145:GLU:OE1	2.19	0.42
5:T:253:LYS:HE2	8:W:25:DT:H4'	2.02	0.42
5:T:259:LEU:CD1	7:V:33:DA:H2'	2.48	0.42
5:T:351:LYS:H	5:T:397:LEU:HB2	1.83	0.42
5:T:359:HIS:O	6:U:363:LYS:HG3	2.20	0.42
8:W:27:DT:H6	8:W:27:DT:H2'	1.67	0.42
3:X:220:ALA:HB1	3:Y:195:ILE:HG23	2.02	0.42
1:K:51:GLU:O	1:K:54:GLN:HG2	2.19	0.42
1:O:5:ILE:HG12	1:O:126:LEU:HG	2.01	0.42
1:O:115:LYS:HZ2	1:O:116:VAL:HG22	1.84	0.42
2:P:863:VAL:O	2:P:889:LEU:N	2.52	0.42
3:Q:44:VAL:HG22	3:Q:126:ALA:HB3	2.02	0.42
3:Q:176:ARG:NH2	3:Q:180:LYS:HA	2.34	0.42
3:Q:220:ALA:HB3	3:R:198:LEU:HD23	2.01	0.42
4:F:175:TYR:O	4:F:225:LYS:HG2	2.20	0.42
4:F:250:ASN:O	4:F:251:PHE:C	2.63	0.42
4:F:429:GLU:OE1	4:F:429:GLU:N	2.50	0.42
4:F:759:GLY:HA2	4:F:765:LEU:HD23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1271:ILE:O	4:F:1274:ARG:HD2	2.20	0.42
4:F:1504:ASP:O	4:F:1508:LYS:N	2.48	0.42
4:F:1567:ILE:O	4:F:1571:LEU:HD23	2.19	0.42
4:F:1824:LEU:HG	4:F:1825:LEU:N	2.34	0.42
4:F:2414:GLN:O	4:F:2418:LYS:HG2	2.19	0.42
4:F:2522:ARG:NH2	4:F:2564:GLU:OE2	2.46	0.42
4:F:2840:PHE:O	4:F:2844:LEU:HD23	2.19	0.42
4:F:3499:ILE:HD12	4:F:3499:ILE:HA	1.88	0.42
4:F:3506:LEU:HG	4:F:3555:VAL:HG12	2.02	0.42
4:F:3531:TYR:HB3	4:F:3796:MET:HE1	2.01	0.42
4:F:3661:ASP:O	4:F:3664:ASN:HB2	2.20	0.42
4:F:3979:LEU:HD12	4:F:3980:MET:N	2.35	0.42
4:F:4107:LEU:O	4:F:4112:THR:N	2.51	0.42
5:G:283:PRO:HG2	5:G:486:HIS:NE2	2.34	0.42
5:G:444:ARG:O	6:H:266:SER:HA	2.19	0.42
4:A:73:LEU:C	4:A:75:SER:N	2.77	0.42
4:A:753:GLN:HE22	4:A:792:ILE:HG12	1.83	0.42
4:A:863:GLY:H	4:A:3167:ARG:HD3	1.85	0.42
4:A:1242:LEU:HD13	4:A:1309:ALA:O	2.20	0.42
4:A:1605:PHE:O	4:A:1608:ARG:HG2	2.19	0.42
4:A:1948:ALA:O	4:A:1952:ILE:HG12	2.20	0.42
4:A:2102:LYS:HB2	4:A:2106:ARG:NH1	2.34	0.42
4:A:2160:TYR:HB2	4:A:2164:TRP:CD1	2.55	0.42
4:A:2352:HIS:HB2	4:A:2356:MET:SD	2.60	0.42
4:A:3141:PHE:CE2	4:A:3192:LYS:HB3	2.54	0.42
4:A:3162:ASN:O	4:A:3166:ASN:ND2	2.53	0.42
4:A:3504:ALA:O	4:A:3508:LYS:HG2	2.18	0.42
4:A:3531:TYR:CE1	4:A:3801:GLY:HA2	2.51	0.42
5:B:94:LYS:N	5:B:102:ILE:O	2.52	0.42
5:B:122:PHE:HE1	5:B:130:ARG:HE	1.67	0.42
5:B:241:ASP:OD1	5:B:242:LEU:N	2.51	0.42
5:B:329:LEU:HA	6:C:497:ARG:NH1	2.34	0.42
5:B:360:HIS:HA	5:B:362:LEU:HD23	2.01	0.42
5:B:375:VAL:HA	6:C:540:ILE:HG13	2.01	0.42
5:B:530:TYR:CD1	5:B:531:PRO:HD2	2.54	0.42
4:S:15:LEU:HB3	4:S:63:PHE:CE2	2.55	0.42
4:S:479:ILE:O	4:S:483:VAL:HG22	2.20	0.42
4:S:739:ASN:HA	4:S:742:GLU:CD	2.44	0.42
4:S:756:PHE:CD2	4:S:795:CYS:HB2	2.54	0.42
4:S:901:MET:CE	4:S:2816:ILE:HD12	2.50	0.42
4:S:931:CYS:SG	4:S:980:THR:HG22	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:993:HIS:HA	4:S:1039:TRP:CD1	2.54	0.42
4:S:1037:LEU:HD11	4:S:1088:GLU:OE2	2.19	0.42
4:S:1100:VAL:HG23	4:S:1101:PHE:N	2.34	0.42
4:S:1101:PHE:HB3	4:S:1168:LEU:HG	2.01	0.42
4:S:2238:ILE:O	4:S:2241:LEU:HG	2.19	0.42
4:S:3459:ASN:O	4:S:3463:LEU:HG	2.19	0.42
4:S:4043:LYS:HG2	4:S:4066:LEU:HD23	2.02	0.42
6:U:364:VAL:HG11	6:U:419:LEU:HD22	2.01	0.42
6:U:468:GLU:HB2	6:U:474:GLU:OE2	2.20	0.42
1:K:185:ASN:HB2	2:M:769:THR:HG22	2.01	0.42
1:L:36:LEU:HD23	1:L:88:PHE:CD1	2.55	0.42
1:L:162:PHE:HA	1:L:165:CYS:SG	2.60	0.42
2:M:675:LYS:HE2	2:M:675:LYS:HB3	1.82	0.42
2:M:707:ILE:HG22	5:B:496:ASP:OD1	2.19	0.42
1:O:166:VAL:HG11	2:P:846:ARG:HB3	2.01	0.42
2:P:710:LYS:HE3	5:G:498:MET:O	2.19	0.42
2:P:800:GLU:HB3	2:P:806:ASP:CG	2.45	0.42
3:Q:45:TRP:CE3	3:Q:104:LEU:HD22	2.54	0.42
3:Q:72:PHE:O	3:Q:76:LEU:HG	2.19	0.42
3:Q:176:ARG:H	3:Q:176:ARG:HD3	1.84	0.42
4:F:384:MET:HA	4:F:387:GLU:HB3	2.00	0.42
4:F:637:LYS:HZ1	4:F:640:GLU:HB2	1.84	0.42
4:F:966:PHE:HB2	4:F:1011:GLU:OE2	2.20	0.42
4:F:1057:LYS:HA	4:F:1060:PHE:CD2	2.55	0.42
4:F:1342:MET:O	4:F:1346:THR:HG23	2.19	0.42
4:F:1711:ARG:HG2	4:F:1715:GLU:OE2	2.19	0.42
4:F:2242:VAL:HG22	4:F:2283:ASN:HD21	1.83	0.42
4:F:2322:VAL:HA	4:F:2325:LEU:HD12	2.02	0.42
4:F:2324:GLY:CA	4:F:2367:VAL:HG23	2.49	0.42
4:F:2335:ASN:ND2	4:F:2337:LEU:HD23	2.34	0.42
4:F:3008:TRP:O	4:F:3011:LEU:N	2.44	0.42
4:F:3161:LEU:O	4:F:3166:ASN:HA	2.19	0.42
4:F:3363:SER:C	4:F:3376:GLY:HA3	2.44	0.42
4:F:3421:ASP:HB3	4:F:3425:ARG:HH21	1.84	0.42
4:F:3505:LEU:HA	4:F:3508:LYS:HD2	2.00	0.42
4:F:3519:GLU:HB2	4:F:3558:ILE:HD11	2.01	0.42
4:F:3866:GLU:OE2	4:F:3867:THR:OG1	2.33	0.42
4:F:3910:LEU:HD12	4:F:3913:ILE:CG2	2.49	0.42
5:G:48:MET:HB2	5:G:49:PHE:CE2	2.55	0.42
5:G:193:LEU:HD13	5:G:198:ILE:HG22	2.00	0.42
5:G:532:PRO:HG3	6:H:259:ILE:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:686:ILE:HG13	6:H:707:PRO:HD3	2.01	0.42
4:A:211:ALA:HB1	5:B:336:GLU:CD	2.44	0.42
4:A:256:ILE:O	6:C:551:GLN:HG2	2.20	0.42
4:A:410:MET:N	4:A:411:PRO:HD3	2.35	0.42
4:A:730:LEU:O	4:A:734:LEU:HG	2.19	0.42
4:A:895:ALA:HA	4:A:904:VAL:HA	2.01	0.42
4:A:1165:LEU:HD21	4:A:1194:PHE:HB3	2.02	0.42
4:A:1636:ASP:HA	4:A:1683:LYS:NZ	2.34	0.42
4:A:1669:PRO:O	4:A:1673:THR:HG23	2.19	0.42
4:A:2095:ALA:O	4:A:2099:ALA:CB	2.67	0.42
4:A:2770:VAL:HG23	4:A:2772:TYR:CE1	2.55	0.42
4:A:3273:LEU:HB3	4:A:3315:TYR:CD2	2.55	0.42
4:A:3518:VAL:HG12	4:A:3558:ILE:HD11	2.02	0.42
4:A:3859:TYR:CE1	4:A:4077:TYR:HA	2.55	0.42
4:A:3932:MET:HE2	4:A:3932:MET:HB2	1.92	0.42
5:B:294:GLU:HA	5:B:295:PRO:HD3	1.92	0.42
5:B:351:LYS:HE2	5:B:397:LEU:HD13	2.01	0.42
5:B:428:THR:O	5:B:428:THR:OG1	2.36	0.42
6:C:475:ASP:O	6:C:478:PRO:HD3	2.20	0.42
4:S:145:ASP:HA	4:S:148:LYS:NZ	2.34	0.42
4:S:324:SER:HB3	4:S:368:LEU:HB3	2.02	0.42
4:S:1064:TYR:HB3	4:S:1106:ILE:HG21	2.01	0.42
4:S:1719:VAL:O	6:U:594:PRO:HG3	2.19	0.42
4:S:2361:ILE:HD12	4:S:2389:PHE:CE2	2.55	0.42
4:S:2417:SER:HB3	5:T:148:TRP:CD1	2.55	0.42
4:S:2887:PRO:HG3	4:S:3121:LEU:HD11	2.01	0.42
4:S:3319:ASN:O	4:S:3323:PHE:N	2.39	0.42
4:S:3511:ALA:O	4:S:3514:VAL:HG12	2.20	0.42
4:S:3550:LYS:O	4:S:3553:GLU:HG2	2.19	0.42
4:S:4055:ASN:HB2	4:S:4096:SER:N	2.32	0.42
5:T:259:LEU:HB3	5:T:345:LEU:HD23	2.01	0.42
5:T:285:PRO:HB3	6:U:314:PHE:CD2	2.55	0.42
5:T:306:SER:HB3	6:U:288:ASP:HA	2.02	0.42
6:U:80:HIS:CD2	6:U:81:ARG:HH21	2.37	0.42
8:W:32:DT:H2'	8:W:33:DA:C2	2.54	0.42
3:X:140:MET:O	3:X:144:LEU:HG	2.19	0.42
3:Y:57:ARG:O	3:Y:60:GLU:HG2	2.20	0.42
1:K:17:THR:HG23	1:K:19:PHE:CE1	2.54	0.42
1:K:61:MET:HA	3:R:112:LEU:N	2.29	0.42
1:K:101:LEU:HG	3:R:112:LEU:HD13	2.02	0.42
1:L:102:LYS:HD3	1:L:103:ASP:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:837:ARG:HE	2:M:841:LYS:HZ1	1.65	0.42
1:O:10:LEU:HD21	1:O:88:PHE:N	2.35	0.42
1:O:69:GLU:O	1:O:72:LYS:HG2	2.20	0.42
1:O:138:GLN:O	1:O:142:GLU:HG2	2.20	0.42
1:O:179:ARG:HD3	2:P:778:PHE:HB3	2.01	0.42
2:P:700:VAL:O	2:P:721:VAL:HG22	2.20	0.42
4:F:110:THR:O	4:F:114:VAL:HG23	2.19	0.42
4:F:645:TRP:H	4:F:645:TRP:HE3	1.68	0.42
4:F:664:SER:HB2	4:F:728:SER:HB2	2.02	0.42
4:F:960:GLN:HE21	4:F:960:GLN:HB2	1.70	0.42
4:F:1195:VAL:HA	4:F:1198:LEU:HG	2.01	0.42
4:F:1633:TRP:HB2	4:F:1678:LEU:HD21	2.02	0.42
4:F:2413:PHE:HA	4:F:2416:LYS:HB3	2.02	0.42
4:F:3041:LEU:N	4:F:3042:PRO:HD2	2.35	0.42
4:F:3049:LEU:O	4:F:3053:LEU:HG	2.19	0.42
4:F:3176:MET:HE1	4:F:3245:SER:HB3	2.02	0.42
4:F:3235:LYS:HB3	4:F:3239:LYS:NZ	2.35	0.42
4:F:3733:ARG:HH22	4:F:3755:GLY:C	2.28	0.42
4:F:3762:GLN:HB2	4:F:3795:PRO:HD2	2.01	0.42
5:G:164:LYS:NZ	5:G:198:ILE:HG13	2.34	0.42
5:G:367:PHE:HB2	6:H:433:TYR:CE2	2.55	0.42
5:G:416:GLN:HB2	5:G:431:GLY:N	2.35	0.42
5:G:512:GLU:HA	5:G:515:ASN:HB3	2.01	0.42
6:H:342:VAL:HG22	6:H:393:VAL:HB	2.02	0.42
8:J:23:DT:H2'	8:J:24:DT:N3	2.35	0.42
4:A:23:ASP:HB2	4:A:69:VAL:HB	2.01	0.42
4:A:868:LYS:HB2	4:A:3173:MET:HE1	2.01	0.42
4:A:932:GLU:CD	4:A:2773:ARG:HB3	2.44	0.42
4:A:1068:LEU:HG	4:A:1106:ILE:HG23	2.02	0.42
4:A:1257:LEU:HD23	4:A:1257:LEU:HA	1.78	0.42
4:A:1301:ILE:HG21	4:A:1337:VAL:HG11	2.02	0.42
4:A:1423:ILE:HG13	4:A:1458:LEU:HD11	2.02	0.42
4:A:1661:PHE:HA	4:A:1665:HIS:HB2	2.01	0.42
4:A:1798:LEU:HB3	4:A:1839:PHE:CD1	2.55	0.42
4:A:2364:LEU:HA	4:A:2367:VAL:HG12	2.01	0.42
4:A:2424:MET:HB2	4:A:2425:ARG:HH12	1.85	0.42
4:A:2586:PHE:HE1	4:A:2780:LEU:O	2.03	0.42
4:A:2851:PHE:HD2	4:A:2854:PHE:HB2	1.84	0.42
4:A:3171:ALA:HA	4:A:3174:ASP:O	2.19	0.42
4:A:3756:GLU:HG2	4:A:4023:LYS:HA	2.01	0.42
4:A:3771:MET:HG2	4:A:3775:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3881:ASP:OD1	4:A:3969:ASN:HB3	2.19	0.42
4:A:3953:LEU:N	4:A:4068:HIS:HA	2.34	0.42
5:B:48:MET:HB3	5:B:60:PHE:CB	2.49	0.42
5:B:99:PHE:HB2	5:B:102:ILE:HD12	2.01	0.42
5:B:272:GLY:H	5:B:370:PRO:C	2.27	0.42
5:B:286:ILE:HG22	6:C:313:GLY:O	2.19	0.42
5:B:357:LYS:O	5:B:358:LYS:HG2	2.19	0.42
5:B:516:LYS:HA	5:B:520:SER:H	1.85	0.42
6:C:389:MET:HE2	6:C:389:MET:HA	2.02	0.42
4:S:160:LEU:HD21	4:S:196:LEU:HD21	2.00	0.42
4:S:943:GLY:CA	4:S:2783:ILE:HD12	2.50	0.42
4:S:1064:TYR:HD1	4:S:1107:TYR:CE1	2.38	0.42
4:S:1264:LEU:HA	4:S:1267:TYR:HB2	2.01	0.42
4:S:1289:SER:O	4:S:1293:ALA:HB3	2.19	0.42
4:S:1723:PRO:HG3	6:U:594:PRO:CA	2.49	0.42
4:S:1753:SER:O	4:S:1754:GLN:HG2	2.20	0.42
4:S:2257:PHE:HA	4:S:2260:PHE:CE2	2.55	0.42
4:S:3053:LEU:O	4:S:3188:PHE:HB2	2.19	0.42
4:S:3137:GLU:O	4:S:3185:ASN:HB3	2.20	0.42
4:S:3311:ASN:HB3	4:S:3315:TYR:CE1	2.55	0.42
4:S:3413:TYR:HA	4:S:3416:LEU:HB3	2.01	0.42
4:S:3765:GLU:HB2	4:S:3793:VAL:HG22	2.02	0.42
4:S:3828:TYR:HD2	4:S:3879:PRO:HD3	1.84	0.42
4:S:3863:ASN:H	4:S:3866:GLU:CG	2.28	0.42
4:S:3885:ARG:O	4:S:3888:VAL:HG22	2.19	0.42
4:S:3924:HIS:CD2	4:S:3926:ASN:HB2	2.55	0.42
5:T:60:PHE:HD2	5:T:131:PHE:CE2	2.38	0.42
5:T:349:GLY:C	5:T:397:LEU:HD23	2.44	0.42
6:U:312:GLN:HB2	6:U:323:PHE:O	2.20	0.42
7:V:43:DT:O5'	7:V:44:DG:N2	2.53	0.42
3:X:211:VAL:HG23	3:X:212:MET:N	2.35	0.42
1:K:180:PHE:HB2	2:M:774:LEU:CD2	2.49	0.42
1:L:49:GLU:O	1:L:53:SER:OG	2.22	0.42
3:Q:76:LEU:HD13	3:Q:119:TRP:CZ2	2.54	0.42
3:Q:163:GLU:O	3:Q:167:TYR:HD1	2.02	0.42
3:R:37:LEU:HD21	3:R:134:HIS:HB2	2.01	0.42
3:R:79:LEU:HD12	3:R:95:PHE:CZ	2.55	0.42
4:F:84:GLU:HA	4:F:87:LYS:HB3	2.00	0.42
4:F:250:ASN:HA	4:F:275:PHE:CZ	2.54	0.42
4:F:279:ALA:O	4:F:322:GLN:NE2	2.33	0.42
4:F:320:LEU:HD13	4:F:368:LEU:CD2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:344:GLN:O	4:F:348:ILE:HG12	2.20	0.42
4:F:364:ARG:HB2	4:F:415:GLN:OE1	2.20	0.42
4:F:890:LYS:HE2	4:F:909:VAL:H	1.84	0.42
4:F:1034:ARG:HB3	4:F:1085:ILE:HA	2.01	0.42
4:F:1099:PHE:CZ	4:F:1152:ARG:HD3	2.55	0.42
4:F:1343:GLU:O	4:F:1347:THR:HG23	2.20	0.42
4:F:1385:ASN:ND2	4:F:1392:MET:HB3	2.35	0.42
4:F:1670:GLU:HG3	4:F:1671:VAL:HG13	2.02	0.42
4:F:2136:PRO:HD3	4:F:2170:GLN:HG3	2.02	0.42
4:F:2421:VAL:O	4:F:2425:ARG:HB2	2.20	0.42
4:F:2803:ILE:O	4:F:2807:GLN:HG2	2.20	0.42
4:F:3011:LEU:HA	4:F:3014:CYS:HB3	2.02	0.42
4:F:4098:LEU:HD12	4:F:4102:THR:HB	2.02	0.42
5:G:47:ALA:HB1	5:G:170:THR:HA	2.02	0.42
6:H:660:LYS:HD3	6:H:688:LYS:N	2.31	0.42
6:H:704:PHE:CD2	6:H:708:LYS:HB3	2.54	0.42
7:I:24:DA:H4'	7:I:25:DA:N7	2.34	0.42
8:J:21:DA:C4	8:J:22:DG:N7	2.88	0.42
4:A:100:ILE:HD12	4:A:141:SER:HB2	2.02	0.42
4:A:306:VAL:C	4:A:310:LYS:HZ2	2.28	0.42
4:A:318:SER:O	4:A:322:GLN:HG2	2.20	0.42
4:A:630:CYS:HA	4:A:633:ILE:HG12	2.01	0.42
4:A:745:VAL:HA	4:A:748:TYR:CD2	2.55	0.42
4:A:1157:PHE:HE1	4:A:1171:TRP:CG	2.38	0.42
4:A:1528:LEU:HD11	4:A:1571:LEU:HD21	2.02	0.42
4:A:1637:SER:HB2	4:A:1641:THR:OG1	2.20	0.42
4:A:1643:MET:HA	4:A:1688:LEU:HD13	2.01	0.42
4:A:1887:ASP:CG	4:A:1888:ASP:H	2.27	0.42
4:A:2254:ARG:HA	4:A:2257:PHE:HB3	2.02	0.42
4:A:2413:PHE:HD1	4:A:2416:LYS:HG3	1.85	0.42
4:A:2435:CYS:O	4:A:2439:ILE:HG13	2.20	0.42
4:A:3288:SER:HG	4:A:3289:ARG:NH1	2.18	0.42
4:A:3874:ARG:HD2	4:A:4127:TRP:HB3	2.02	0.42
5:B:418:GLU:HB3	5:B:430:PRO:CD	2.49	0.42
6:C:430:LEU:HD23	6:C:430:LEU:HA	1.89	0.42
4:S:698:PRO:HG2	4:S:1443:VAL:HG11	2.02	0.42
4:S:1071:ASN:H	4:S:1075:ARG:NH1	2.18	0.42
4:S:1457:GLN:N	4:S:1460:ARG:HH21	2.18	0.42
4:S:1625:HIS:O	4:S:1628:LYS:HG2	2.19	0.42
4:S:1963:GLN:HG2	4:S:2125:TRP:CD2	2.54	0.42
4:S:2149:LEU:O	4:S:2153:THR:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2165:LEU:HD11	4:S:2201:THR:H	1.83	0.42
4:S:2531:LEU:HD22	4:S:2538:ARG:O	2.20	0.42
4:S:2542:LEU:HA	4:S:2545:LEU:HB2	2.01	0.42
4:S:2722:ARG:HD2	4:S:2722:ARG:N	2.35	0.42
4:S:3123:GLN:HG2	4:S:3124:SER:N	2.35	0.42
4:S:3820:MET:HE2	4:S:3885:ARG:CZ	2.50	0.42
4:S:3974:MET:HG3	4:S:3979:LEU:N	2.30	0.42
5:T:433:GLN:HB3	5:T:435:VAL:HG13	2.02	0.42
6:U:42:VAL:HG21	6:U:90:LEU:HB2	2.02	0.42
6:U:181:GLY:N	6:U:476:LEU:HA	2.35	0.42
6:U:656:ASN:ND2	6:U:689:GLU:O	2.53	0.42
7:V:44:DG:C8	7:V:45:DG:C8	3.08	0.42
1:K:32:PHE:CZ	1:K:70:LEU:HD13	2.54	0.42
1:N:56:ALA:HB2	1:N:66:TYR:CG	2.54	0.42
2:P:693:PRO:HB2	2:P:718:HIS:CE1	2.54	0.42
2:P:713:ILE:HG23	2:P:745:HIS:CD2	2.55	0.42
2:P:729:CYS:HA	2:P:736:VAL:HG23	2.01	0.42
3:Q:144:LEU:HG	3:R:214:LEU:HD11	2.01	0.42
4:F:125:ILE:HD12	4:F:125:ILE:H	1.85	0.42
4:F:414:LEU:O	4:F:417:VAL:HG12	2.20	0.42
4:F:442:GLN:O	4:F:445:SER:OG	2.26	0.42
4:F:977:ASP:OD2	4:F:980:THR:OG1	2.37	0.42
4:F:1282:LEU:HD23	4:F:1282:LEU:HA	1.84	0.42
4:F:1304:HIS:CE1	4:F:1307:ILE:HG22	2.53	0.42
4:F:1525:CYS:HA	4:F:1528:LEU:HD12	2.02	0.42
4:F:2553:HIS:O	4:F:2557:LEU:HG	2.20	0.42
4:F:2919:ASP:OD1	4:F:2919:ASP:N	2.47	0.42
4:F:2953:THR:HA	4:F:2972:TYR:CE1	2.55	0.42
4:F:3380:ARG:HA	4:F:3383:GLN:HB3	2.00	0.42
4:F:3414:MET:HG2	4:F:3460:GLU:HG2	2.02	0.42
4:F:3455:LYS:HD2	4:F:3489:SER:HA	2.02	0.42
4:F:3496:ILE:HG23	4:F:3499:ILE:HD13	2.00	0.42
4:F:3762:GLN:HB2	4:F:3795:PRO:CD	2.49	0.42
4:F:3820:MET:HE3	4:F:3882:LEU:CD1	2.50	0.42
5:G:128:GLN:O	5:G:132:GLN:HG2	2.19	0.42
5:G:254:ARG:HG2	7:I:34:DC:H4'	2.01	0.42
5:G:262:LYS:HZ2	5:G:344:GLY:HA3	1.82	0.42
5:G:289:TYR:HA	6:H:310:ILE:HD13	2.00	0.42
5:G:410:PHE:HB3	5:G:437:LEU:HD12	2.02	0.42
6:H:599:ARG:O	6:H:603:LYS:HG2	2.20	0.42
6:H:620:ILE:HA	6:H:635:SER:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:664:GLU:O	6:H:668:ILE:HG23	2.20	0.42
7:I:30:DA:H4'	7:I:31:DA:OP2	2.20	0.42
8:J:27:DT:C5	8:J:28:DA:N6	2.88	0.42
4:A:49:ALA:O	4:A:53:LEU:HG	2.20	0.42
4:A:234:PHE:O	4:A:236:LYS:NZ	2.49	0.42
4:A:286:LEU:O	4:A:290:TYR:HB3	2.19	0.42
4:A:986:PRO:HA	4:A:989:MET:HG3	2.02	0.42
4:A:1100:VAL:O	4:A:1104:LEU:HB3	2.19	0.42
4:A:1264:LEU:HD11	4:A:1344:PHE:CD2	2.54	0.42
4:A:1370:ARG:HG3	4:A:1418:HIS:HE2	1.85	0.42
4:A:1516:GLU:O	4:A:1520:ALA:N	2.53	0.42
4:A:2206:PRO:O	4:A:2210:VAL:HG23	2.20	0.42
4:A:2325:LEU:HA	4:A:2328:ARG:NH1	2.35	0.42
4:A:3176:MET:HA	4:A:3179:TRP:HB2	2.02	0.42
4:A:3577:GLN:HB3	4:A:3625:LEU:HD13	2.02	0.42
6:C:29:SER:O	6:C:32:GLU:HG2	2.20	0.42
6:C:111:LEU:O	6:C:115:MET:HG2	2.20	0.42
9:D:28:DT:H2'	9:D:29:DA:C5	2.55	0.42
10:E:21:DA:H3'	10:E:21:DA:N3	2.35	0.42
4:S:583:LEU:HB2	4:S:614:PRO:HA	2.02	0.42
4:S:670:LEU:HB3	4:S:732:PHE:CE1	2.55	0.42
4:S:997:ASN:HA	4:S:1043:GLN:NE2	2.35	0.42
4:S:1173:LEU:HB2	4:S:1191:PHE:CD1	2.54	0.42
4:S:1602:ASP:C	4:S:1606:ARG:HH21	2.27	0.42
4:S:1773:VAL:HG12	4:S:1773:VAL:O	2.20	0.42
4:S:2992:ASP:HB3	4:S:2996:LEU:HD12	2.02	0.42
4:S:3629:ARG:O	4:S:3633:ILE:HG23	2.20	0.42
4:S:3988:LEU:HD12	4:S:3991:PHE:CD2	2.55	0.42
5:T:131:PHE:HB3	5:T:135:MET:HE3	2.02	0.42
5:T:488:ARG:O	5:T:491:GLU:HG2	2.20	0.42
6:U:641:ALA:O	6:U:644:GLU:HG3	2.20	0.42
3:X:18:LEU:HB2	3:X:95:PHE:O	2.19	0.42
3:Y:106:LEU:HD22	3:Y:121:PHE:HB2	2.01	0.42
1:K:4:LYS:HB3	1:K:75:LEU:O	2.20	0.41
1:L:93:CYS:O	1:L:113:LEU:N	2.52	0.41
1:N:4:LYS:O	1:N:21:GLN:HA	2.19	0.41
2:P:868:ASP:H	2:P:871:ARG:HH21	1.68	0.41
3:Q:179:LEU:HD13	3:R:159:MET:HA	2.02	0.41
3:R:185:GLU:HG2	3:R:188:SER:H	1.85	0.41
4:F:584:GLU:HB2	4:F:613:HIS:HB3	2.02	0.41
4:F:714:VAL:CG2	4:F:733:LEU:HD11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2184:TYR:CE1	4:F:2734:ARG:HD2	2.55	0.41
4:F:2259:LYS:C	4:F:2273:GLY:HA3	2.44	0.41
4:F:2295:GLN:NE2	4:F:2298:GLU:OE1	2.52	0.41
4:F:2357:GLU:HA	4:F:2360:PHE:HD2	1.85	0.41
4:F:2508:GLN:HE22	4:F:2547:SER:HB2	1.83	0.41
4:F:2735:ASP:N	4:F:2735:ASP:OD1	2.48	0.41
4:F:2999:LEU:HB2	4:F:3043:TYR:CZ	2.55	0.41
4:F:3922:ASP:HB3	4:F:3928:PHE:CZ	2.54	0.41
5:G:35:ARG:HE	5:G:80:ARG:HB3	1.84	0.41
5:G:93:ASP:HB3	5:G:95:ASN:OD1	2.20	0.41
5:G:357:LYS:C	6:H:353:ARG:HH12	2.28	0.41
5:G:416:GLN:OE1	6:H:354:ARG:HD2	2.20	0.41
5:G:459:VAL:HG11	6:H:382:HIS:ND1	2.35	0.41
6:H:182:PRO:HD3	6:H:476:LEU:HD11	2.02	0.41
6:H:619:HIS:O	6:H:631:TYR:OH	2.26	0.41
4:A:273:ARG:NH1	4:A:311:ALA:HA	2.35	0.41
4:A:1875:LYS:O	4:A:1879:VAL:HG13	2.20	0.41
4:A:3195:GLU:O	4:A:3196:LYS:HG3	2.20	0.41
4:A:3335:ARG:HB2	4:A:3422:GLN:HE22	1.83	0.41
4:A:3447:VAL:HG11	4:A:3472:ILE:HD12	2.01	0.41
4:A:3885:ARG:O	4:A:3889:ARG:HG2	2.20	0.41
5:B:74:LYS:HA	5:B:77:SER:OG	2.20	0.41
5:B:387:ILE:HG22	5:B:388:LYS:HD2	2.02	0.41
5:B:455:THR:OG1	5:B:458:GLN:HB2	2.19	0.41
6:C:122:THR:HA	6:C:127:PHE:CD2	2.54	0.41
4:S:146:GLU:HA	4:S:149:ILE:HG23	2.01	0.41
4:S:293:LEU:HA	4:S:296:VAL:HG12	2.02	0.41
4:S:491:CYS:SG	4:S:622:ALA:HB1	2.60	0.41
4:S:799:TYR:O	4:S:803:SER:HB3	2.19	0.41
4:S:1154:PRO:HG3	4:S:1157:PHE:HD2	1.85	0.41
4:S:1336:THR:O	4:S:1340:ARG:HG2	2.20	0.41
4:S:1751:GLU:O	4:S:1788:ARG:NH1	2.54	0.41
4:S:2202:PRO:O	4:S:2209:GLU:HG2	2.20	0.41
4:S:2227:LYS:C	4:S:2229:ALA:H	2.28	0.41
4:S:2745:ARG:HA	4:S:2749:ALA:HB2	2.02	0.41
4:S:2942:ILE:O	4:S:2947:ILE:HB	2.19	0.41
4:S:3186:ARG:O	4:S:3189:PHE:HB2	2.20	0.41
4:S:3265:GLU:HB2	4:S:3272:TRP:CD1	2.55	0.41
4:S:3454:LEU:HD11	4:S:3462:ARG:HG2	2.02	0.41
4:S:3533:PHE:HD2	4:S:3572:ILE:HD12	1.84	0.41
5:T:58:THR:OG1	5:T:61:ASP:OD2	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:203:MET:HE1	5:T:239:LEU:HG	2.01	0.41
5:T:392:LYS:HB2	6:U:458:ILE:HD12	2.01	0.41
5:T:435:VAL:HG11	6:U:353:ARG:O	2.20	0.41
5:T:444:ARG:HH12	6:U:368:ARG:CZ	2.33	0.41
6:U:602:VAL:HG11	6:U:642:PHE:CE1	2.56	0.41
7:V:39:DA:H2''	7:V:40:DT:O4'	2.20	0.41
3:X:210:PHE:HB2	3:Y:144:LEU:HD13	2.02	0.41
3:Y:137:ARG:HB3	3:Y:138:PRO:HD3	2.02	0.41
1:L:118:ASN:ND2	1:L:121:GLU:HG2	2.35	0.41
2:M:864:ILE:HD11	2:M:893:TRP:CZ3	2.56	0.41
2:M:889:LEU:HD13	2:M:893:TRP:CE2	2.54	0.41
1:N:162:PHE:O	1:N:166:VAL:HG22	2.20	0.41
3:Q:146:LEU:CB	3:R:146:LEU:HB3	2.50	0.41
3:Q:208:LYS:HB3	3:Q:212:MET:HE1	2.00	0.41
3:Q:216:ASP:OD1	3:Q:216:ASP:N	2.52	0.41
3:R:93:ALA:HB2	3:R:111:GLU:HG2	2.02	0.41
4:F:74:ASN:HA	4:F:79:ARG:NE	2.35	0.41
4:F:307:GLU:O	4:F:310:LYS:HG3	2.20	0.41
4:F:1051:LYS:HE3	4:F:1051:LYS:HB3	1.83	0.41
4:F:1394:HIS:O	4:F:1398:VAL:HG12	2.20	0.41
4:F:1419:LEU:HD21	4:F:1458:LEU:HD11	2.02	0.41
4:F:1430:GLU:OE1	4:F:1430:GLU:N	2.53	0.41
4:F:2253:TYR:HA	4:F:2256:ILE:HB	2.02	0.41
4:F:2311:ARG:HD2	4:F:2312:TYR:HB2	2.02	0.41
4:F:2428:ASP:HB2	4:F:2431:ARG:HG3	2.01	0.41
4:F:3324:ARG:NH2	4:F:3409:VAL:HG22	2.32	0.41
4:F:3575:LEU:HB3	4:F:3685:PRO:CA	2.50	0.41
4:F:3809:THR:OG1	4:F:3810:VAL:N	2.53	0.41
4:F:4003:ASP:HA	4:F:4007:LYS:HA	2.02	0.41
4:F:4059:ILE:HA	4:F:4062:ASP:OD2	2.18	0.41
5:G:69:SER:HA	5:G:245:LYS:HD3	2.01	0.41
5:G:90:THR:HG21	5:G:93:ASP:HA	2.01	0.41
5:G:264:ASN:HD21	5:G:266:ASP:HB2	1.85	0.41
5:G:453:MET:CE	6:H:382:HIS:HB2	2.50	0.41
6:H:43:GLN:OE1	6:H:495:LEU:HD21	2.20	0.41
6:H:400:ARG:NH1	8:J:34:DT:O5'	2.53	0.41
6:H:450:GLN:HA	6:H:537:PHE:HZ	1.86	0.41
6:H:607:ALA:HB3	6:H:609:PHE:CE2	2.55	0.41
7:I:23:DT:OP2	7:I:24:DA:N6	2.52	0.41
8:J:13:DA:H5''	8:J:13:DA:C8	2.54	0.41
4:A:359:LEU:O	4:A:363:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:653:LEU:HD11	4:A:669:LEU:HG	2.01	0.41
4:A:898:PHE:CZ	4:A:2566:THR:HG22	2.55	0.41
4:A:1027:ASP:HB3	4:A:1031:ARG:NH1	2.34	0.41
4:A:1359:LEU:O	4:A:1360:LYS:HB2	2.20	0.41
4:A:1723:PRO:HB2	4:A:1724:MET:H	1.74	0.41
4:A:2094:MET:O	4:A:2098:THR:OG1	2.36	0.41
4:A:2190:VAL:HA	4:A:2193:ILE:HD12	2.02	0.41
4:A:2452:ARG:HD2	4:A:2494:ASP:OD1	2.20	0.41
4:A:2865:HIS:HD1	4:A:2868:LEU:HD12	1.85	0.41
4:A:3526:PRO:C	4:A:3528:ALA:H	2.28	0.41
4:A:3617:LEU:HB2	4:A:3629:ARG:HH22	1.85	0.41
4:A:3863:ASN:HB3	4:A:3866:GLU:HG2	2.01	0.41
4:A:3884:LYS:NZ	4:A:3973:PRO:HD3	2.35	0.41
5:B:523:ASP:HA	5:B:526:LYS:HE2	2.01	0.41
6:C:500:HIS:ND1	6:C:503:GLU:HG3	2.36	0.41
10:E:32:DT:H4'	10:E:33:DA:H2'	2.01	0.41
4:S:115:TYR:HB3	4:S:155:LYS:NZ	2.35	0.41
4:S:883:TYR:HE2	4:S:3900:LEU:HD22	1.85	0.41
4:S:932:GLU:OE2	4:S:2773:ARG:N	2.52	0.41
4:S:1021:VAL:N	4:S:1026:ARG:HH12	2.18	0.41
4:S:1191:PHE:HZ	4:S:1208:LEU:HD13	1.85	0.41
4:S:1328:GLU:HB3	4:S:1386:ILE:HG21	2.01	0.41
4:S:2168:LEU:HA	4:S:2171:LEU:HD21	2.02	0.41
4:S:2221:LYS:HZ3	4:S:2255:LEU:HD13	1.86	0.41
4:S:2402:LEU:HD22	4:S:2434:VAL:HA	2.02	0.41
4:S:3065:ILE:HG23	4:S:3078:LEU:HD11	2.02	0.41
4:S:3090:TYR:HD2	4:S:3095:ASP:HB3	1.84	0.41
4:S:3269:ARG:HE	4:S:3271:ASP:HB2	1.83	0.41
4:S:3562:LEU:HD13	4:S:3568:ILE:HD12	2.01	0.41
4:S:3783:GLN:HB3	4:S:3986:HIS:HD2	1.85	0.41
4:S:3795:PRO:HA	4:S:3801:GLY:HA2	2.01	0.41
5:T:143:LEU:HD23	5:T:143:LEU:HA	1.95	0.41
5:T:171:ASN:HA	5:T:206:LYS:HB2	2.02	0.41
5:T:428:THR:HG21	6:U:354:ARG:CZ	2.50	0.41
6:U:247:TRP:CH2	6:U:340:PHE:HB2	2.55	0.41
6:U:484:ASN:O	6:U:488:GLN:HG2	2.20	0.41
6:U:611:GLU:OE1	6:U:611:GLU:N	2.42	0.41
8:W:22:DG:H1'	8:W:23:DT:C5	2.55	0.41
3:Y:146:LEU:O	3:Y:150:VAL:HG23	2.19	0.41
1:N:6:SER:OG	1:N:20:LEU:O	2.38	0.41
1:N:51:GLU:HB3	1:N:110:SER:OG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:66:TYR:CE2	1:N:70:LEU:HD11	2.55	0.41
2:P:707:ILE:HA	2:P:710:LYS:HE2	2.02	0.41
4:F:160:LEU:HD21	4:F:224:LEU:HD11	2.03	0.41
4:F:224:LEU:O	4:F:227:LEU:HB3	2.21	0.41
4:F:419:SER:O	4:F:422:LEU:HB3	2.19	0.41
4:F:475:LEU:O	4:F:479:ILE:HG12	2.19	0.41
4:F:569:VAL:HG13	4:F:649:PHE:CZ	2.54	0.41
4:F:853:ILE:HG22	4:F:854:ARG:NH2	2.35	0.41
4:F:908:ASP:O	4:F:912:PRO:HD3	2.20	0.41
4:F:1041:ILE:HG13	4:F:1049:GLN:HE22	1.85	0.41
4:F:1151:ARG:HG2	4:F:1163:LEU:HB2	2.02	0.41
4:F:2220:MET:HA	4:F:2223:VAL:HG12	2.02	0.41
4:F:2324:GLY:HA2	4:F:2367:VAL:HG23	2.02	0.41
4:F:2865:HIS:HB2	4:F:2868:LEU:HD23	2.02	0.41
4:F:2925:GLU:O	4:F:2929:LEU:HG	2.19	0.41
4:F:3022:GLU:HG3	4:F:3037:GLN:CD	2.45	0.41
4:F:3239:LYS:HD2	4:F:3272:TRP:CH2	2.55	0.41
4:F:3324:ARG:HD2	4:F:3392:ALA:HB3	2.02	0.41
4:F:3639:GLU:HB3	4:F:3667:LEU:HD11	2.02	0.41
5:G:430:PRO:HG3	6:H:438:LEU:HB2	2.03	0.41
6:H:50:ASN:OD1	6:H:50:ASN:N	2.53	0.41
4:A:730:LEU:HD23	4:A:730:LEU:HA	1.94	0.41
4:A:1299:GLU:HB3	4:A:1304:HIS:CE1	2.55	0.41
4:A:1428:ILE:H	4:A:1428:ILE:HG13	1.70	0.41
4:A:1633:TRP:HH2	4:A:1671:VAL:HG22	1.85	0.41
4:A:1640:GLU:HG2	4:A:1641:THR:N	2.35	0.41
4:A:2220:MET:HA	4:A:2223:VAL:HG12	2.01	0.41
4:A:2796:ALA:HA	4:A:2799:GLN:NE2	2.35	0.41
4:A:3232:ARG:NH2	4:A:3265:GLU:HA	2.33	0.41
5:B:94:LYS:HB3	5:B:103:TYR:HA	2.02	0.41
5:B:94:LYS:HG3	5:B:104:VAL:H	1.85	0.41
5:B:400:TYR:CE2	5:B:402:PRO:HD3	2.54	0.41
5:B:474:ARG:HA	5:B:474:ARG:HD2	1.86	0.41
6:C:10:VAL:HB	6:C:54:ILE:HG22	2.02	0.41
6:C:57:VAL:HG11	6:C:113:VAL:HB	2.02	0.41
6:C:208:VAL:HA	6:C:211:VAL:HG12	2.02	0.41
6:C:245:ILE:HG21	10:E:35:DT:H5'	2.03	0.41
6:C:404:GLN:OE1	6:C:421:TYR:OH	2.38	0.41
9:D:23:DT:O2	9:D:23:DT:H5''	2.20	0.41
4:S:116:THR:HB	6:U:301:ASP:HB3	2.02	0.41
4:S:346:TYR:HA	4:S:349:ILE:HB	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:406:ARG:O	4:S:410:MET:HG2	2.19	0.41
4:S:1491:ILE:HD13	4:S:1558:TYR:CD2	2.55	0.41
4:S:1709:GLU:H	4:S:1709:GLU:CD	2.28	0.41
4:S:1949:ILE:HG23	4:S:2100:LEU:HB2	2.03	0.41
4:S:2328:ARG:HD3	4:S:2371:PHE:HA	2.02	0.41
4:S:2351:GLN:C	4:S:2352:HIS:CG	2.98	0.41
4:S:2427:ARG:HH12	4:S:2464:HIS:CD2	2.38	0.41
4:S:3583:LEU:HD11	4:S:3734:ARG:HD3	2.01	0.41
4:S:3911:ILE:HG22	4:S:3915:HIS:HD2	1.85	0.41
5:T:478:PHE:CZ	6:U:392:ILE:HD12	2.55	0.41
5:T:490:LEU:HG	6:U:321:VAL:HB	2.01	0.41
6:U:10:VAL:HG13	6:U:131:HIS:HD2	1.85	0.41
6:U:20:MET:HG3	6:U:21:SER:N	2.35	0.41
6:U:111:LEU:HA	6:U:114:SER:HB2	2.02	0.41
1:K:145:GLN:HA	1:K:148:ASN:HB3	2.02	0.41
2:M:664:PHE:CD1	2:M:682:ILE:HD11	2.55	0.41
2:M:682:ILE:HD12	2:M:682:ILE:HA	1.94	0.41
2:M:682:ILE:HG23	2:M:687:GLY:O	2.20	0.41
2:M:865:ILE:HB	2:M:869:HIS:HD2	1.84	0.41
1:N:131:LEU:HD22	1:O:130:CYS:SG	2.60	0.41
3:Q:4:LEU:HD23	3:Q:28:PHE:CE2	2.54	0.41
3:R:133:GLN:O	3:R:218:TYR:OH	2.38	0.41
4:F:108:LYS:NZ	4:F:148:LYS:HE2	2.35	0.41
4:F:364:ARG:HG3	4:F:368:LEU:HD23	2.02	0.41
4:F:370:ALA:HA	4:F:423:TYR:CZ	2.55	0.41
4:F:1010:LEU:HA	4:F:1013:ILE:HG12	2.02	0.41
4:F:1367:HIS:O	4:F:1371:VAL:HG22	2.20	0.41
4:F:1403:MET:HA	4:F:1406:LEU:HD12	2.03	0.41
4:F:1611:GLN:CD	4:F:1614:GLN:HG3	2.45	0.41
4:F:2223:VAL:HG13	4:F:2223:VAL:O	2.19	0.41
4:F:2389:PHE:CE2	4:F:2397:CYS:HB2	2.54	0.41
4:F:2405:VAL:HA	4:F:2408:MET:HE3	2.03	0.41
4:F:2420:PHE:HA	4:F:2423:VAL:HG12	2.02	0.41
5:G:262:LYS:O	5:G:346:MET:HA	2.21	0.41
6:H:315:ARG:HD2	6:H:319:ASP:O	2.20	0.41
6:H:390:VAL:HG23	6:H:392:ILE:HG23	2.02	0.41
6:H:665:LYS:HA	6:H:668:ILE:HG12	2.02	0.41
6:H:677:ILE:HG13	6:H:680:GLN:NE2	2.35	0.41
7:I:21:DA:H2 <sup>7</sup>	7:I:22:DA:O5 <sup>7</sup>	2.18	0.41
7:I:40:DT:C6	7:I:41:DT:N3	2.88	0.41
4:A:649:PHE:HE2	4:A:669:LEU:HD21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:698:PRO:HB2	4:A:1442:GLN:HB2	2.01	0.41
4:A:941:MET:SD	4:A:942:LEU:HD22	2.61	0.41
4:A:1482:GLU:O	4:A:1486:LEU:HB2	2.21	0.41
4:A:2135:ASN:O	4:A:2138:VAL:HG22	2.20	0.41
4:A:2472:GLN:NE2	4:A:2472:GLN:O	2.53	0.41
4:A:3381:ALA:HB3	4:A:3419:PHE:CZ	2.55	0.41
4:A:3490:VAL:HG21	4:A:3493:TRP:CE2	2.54	0.41
4:A:3512:VAL:H	4:A:3550:LYS:HD2	1.85	0.41
4:A:3530:VAL:HG21	4:A:3702:PRO:HB3	2.02	0.41
4:A:3778:ASP:OD1	4:A:3787:GLN:HB2	2.20	0.41
4:A:3784:ARG:HB2	4:A:3986:HIS:HB3	2.02	0.41
4:A:3813:LYS:HB2	4:A:3925:LEU:C	2.46	0.41
4:A:4075:ARG:NH2	4:A:4078:VAL:HG21	2.36	0.41
5:B:327:ILE:HD11	6:C:88:PHE:CE2	2.56	0.41
5:B:417:GLU:HB3	6:C:439:LYS:NZ	2.35	0.41
6:C:345:PHE:HA	6:C:391:ALA:HA	2.01	0.41
6:C:461:MET:N	6:C:461:MET:HE2	2.35	0.41
6:C:500:HIS:CE1	6:C:502:ARG:HB2	2.56	0.41
10:E:22:DG:H1'	10:E:23:DT:C4	2.55	0.41
10:E:28:DA:N6	10:E:30:DT:O5'	2.54	0.41
4:S:231:LEU:HA	4:S:234:PHE:CE1	2.56	0.41
4:S:524:TYR:HA	4:S:527:TYR:CD2	2.46	0.41
4:S:684:GLU:HA	4:S:739:ASN:HB3	2.02	0.41
4:S:781:ASP:O	4:S:784:VAL:HG12	2.21	0.41
4:S:897:PRO:HB2	4:S:2570:PRO:HG2	2.03	0.41
4:S:1366:THR:HG22	4:S:1369:MET:H	1.85	0.41
4:S:1576:ASP:HB2	4:S:1625:HIS:NE2	2.35	0.41
4:S:2303:LEU:HB2	4:S:2323:LEU:HD21	2.02	0.41
4:S:2587:GLN:O	4:S:2776:ARG:HA	2.21	0.41
4:S:2897:LEU:HD11	4:S:2923:TRP:CD2	2.54	0.41
4:S:3334:TYR:CD1	4:S:3359:ILE:HD11	2.55	0.41
4:S:3884:LYS:HA	4:S:3887:PHE:CD2	2.55	0.41
4:S:3887:PHE:CG	4:S:3971:MET:HE2	2.55	0.41
5:T:100:LYS:HA	5:T:100:LYS:HD2	1.87	0.41
5:T:194:ARG:NH2	5:T:200:LEU:HD23	2.36	0.41
5:T:268:VAL:HG23	5:T:375:VAL:HG21	2.01	0.41
5:T:300:THR:HB	6:U:293:THR:HG22	2.03	0.41
6:U:10:VAL:HG13	6:U:131:HIS:CD2	2.55	0.41
6:U:279:VAL:HA	6:U:289:ILE:HB	2.01	0.41
6:U:616:LEU:HD21	6:U:642:PHE:CB	2.50	0.41
8:W:21:DA:C5	8:W:22:DG:N1	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W:24:DT:H6	8:W:24:DT:H2'	1.62	0.41
3:X:44:VAL:HG21	3:Y:136:ILE:HG21	2.03	0.41
3:Y:1:MET:SD	3:Y:1:MET:N	2.92	0.41
1:K:8:ILE:HG12	1:K:86:PHE:HB2	2.02	0.41
1:K:55:GLU:OE1	1:K:107:ARG:HG3	2.21	0.41
1:K:192:ARG:HG3	2:M:766:PHE:CD1	2.55	0.41
1:L:42:ALA:H	1:L:119:PRO:HA	1.85	0.41
2:M:776:GLU:O	2:M:779:SER:OG	2.25	0.41
2:M:809:PRO:HB2	2:M:901:CYS:O	2.19	0.41
2:M:820:LEU:CD2	2:M:822:SER:HB2	2.50	0.41
2:P:681:ARG:HA	2:P:684:GLU:OE1	2.20	0.41
2:P:841:LYS:NZ	2:P:891:GLU:HG3	2.36	0.41
3:Q:33:GLY:HA3	3:Q:50:ASP:HA	2.02	0.41
3:Q:179:LEU:O	3:R:159:MET:HB3	2.20	0.41
3:R:38:VAL:HG11	3:R:104:LEU:HD13	2.02	0.41
4:F:79:ARG:HB3	4:F:124:LYS:NZ	2.35	0.41
4:F:116:THR:HB	6:H:300:ASP:O	2.19	0.41
4:F:452:LYS:O	4:F:456:VAL:HG23	2.21	0.41
4:F:865:GLN:NE2	4:F:3171:ALA:H	2.06	0.41
4:F:989:MET:HE1	4:F:1032:CYS:SG	2.60	0.41
4:F:1636:ASP:N	4:F:1636:ASP:OD1	2.53	0.41
4:F:1840:PHE:O	4:F:1844:VAL:HG23	2.20	0.41
4:F:1954:CYS:SG	4:F:1955:VAL:HG23	2.59	0.41
4:F:2150:VAL:O	4:F:2154:GLU:N	2.53	0.41
4:F:2253:TYR:HD2	4:F:2291:GLN:NE2	2.14	0.41
4:F:2821:ASP:N	4:F:2821:ASP:OD1	2.52	0.41
4:F:3051:LEU:O	4:F:3054:GLN:HG2	2.20	0.41
4:F:3478:GLU:O	4:F:3482:LEU:HG	2.21	0.41
4:F:3811:THR:HA	4:F:3929:MET:HA	2.01	0.41
4:F:3837:CYS:SG	4:F:3874:ARG:HD2	2.61	0.41
6:H:484:ASN:HD21	6:H:486:ARG:HB3	1.85	0.41
4:A:146:GLU:HB2	4:A:183:GLU:HA	2.03	0.41
4:A:232:CYS:HB3	4:A:278:HIS:CD2	2.56	0.41
4:A:295:GLU:HB3	4:A:299:LYS:NZ	2.35	0.41
4:A:567:GLU:HA	4:A:570:LYS:HG2	2.03	0.41
4:A:975:ASP:HB3	4:A:980:THR:HB	2.02	0.41
4:A:1097:GLU:OE2	4:A:1098:GLN:NE2	2.53	0.41
4:A:1147:LYS:HB2	4:A:1149:LYS:NZ	2.34	0.41
4:A:1395:LEU:HA	4:A:1398:VAL:HG22	2.02	0.41
4:A:1568:ASN:OD1	4:A:1569:THR:N	2.53	0.41
4:A:1747:LEU:HD23	4:A:1747:LEU:HA	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1851:LEU:HA	4:A:1870:LYS:HG2	2.02	0.41
4:A:1852:LYS:HD2	4:A:1852:LYS:HA	1.80	0.41
4:A:2126:MET:HA	4:A:2129:LEU:HD12	2.03	0.41
4:A:2208:ASP:OD1	4:A:2209:GLU:N	2.54	0.41
4:A:2309:PHE:O	4:A:2315:VAL:HG21	2.20	0.41
4:A:2379:MET:N	4:A:2379:MET:SD	2.94	0.41
4:A:2466:SER:C	4:A:2468:THR:H	2.27	0.41
4:A:2893:LEU:O	4:A:2897:LEU:HD23	2.21	0.41
4:A:3274:VAL:O	4:A:3278:GLN:HG2	2.21	0.41
4:A:3699:LEU:HD12	4:A:3699:LEU:HA	1.92	0.41
5:B:255:ALA:HB3	5:B:274:TYR:CD1	2.55	0.41
5:B:279:LYS:HB2	6:C:429:ASP:OD1	2.20	0.41
5:B:363:ARG:HH11	6:C:268:LEU:HG	1.86	0.41
5:B:367:PHE:CE1	5:B:416:GLN:HB3	2.54	0.41
6:C:293:THR:HG21	6:C:307:LYS:HE3	2.02	0.41
10:E:14:DT:H1'	10:E:15:DA:N1	2.35	0.41
4:S:217:LEU:HA	4:S:221:ALA:HB3	2.03	0.41
4:S:301:CYS:HB3	4:S:312:ALA:HB3	2.01	0.41
4:S:661:PRO:C	4:S:662:LEU:HD12	2.46	0.41
4:S:1138:ILE:O	4:S:1142:HIS:HB3	2.21	0.41
4:S:1293:ALA:HB1	4:S:1297:PHE:CZ	2.55	0.41
4:S:1376:LEU:HD23	4:S:1399:CYS:HB3	2.01	0.41
4:S:1626:TRP:CE2	4:S:1671:VAL:HG23	2.55	0.41
4:S:2525:TRP:CE3	4:S:2545:LEU:HD13	2.55	0.41
4:S:2859:GLN:CD	4:S:2876:VAL:HG13	2.45	0.41
4:S:3963:LEU:HD22	4:S:4108:MET:HA	2.02	0.41
5:T:36:ASP:OD1	5:T:37:SER:N	2.52	0.41
5:T:341:ASP:OD1	5:T:346:MET:HE3	2.20	0.41
6:U:342:VAL:HG12	6:U:344:GLY:H	1.86	0.41
7:V:40:DT:O4'	8:W:19:DA:H2	2.03	0.41
3:Y:43:GLN:HE21	3:Y:125:LEU:HD13	1.85	0.41
1:K:94:TYR:CE2	1:K:110:SER:HB2	2.56	0.41
2:M:739:GLN:HB3	2:M:741:ARG:NH1	2.35	0.41
1:N:4:LYS:HG2	1:N:75:LEU:HD22	2.03	0.41
1:N:161:ARG:HG2	2:P:840:ILE:HG22	2.01	0.41
1:N:169:LYS:HB3	2:P:847:PHE:HZ	1.86	0.41
2:P:757:GLU:HG3	2:P:758:TYR:CD2	2.55	0.41
2:P:787:GLN:HB3	2:P:791:GLU:OE2	2.20	0.41
2:P:814:ARG:NE	2:P:849:GLY:HA3	2.35	0.41
3:R:46:HIS:HB3	3:R:126:ALA:HA	2.02	0.41
4:F:241:ASP:O	4:F:244:THR:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:531:PHE:HA	4:F:534:LEU:HD12	2.02	0.41
4:F:537:SER:OG	4:F:560:LEU:HD21	2.20	0.41
4:F:782:ARG:HB3	4:F:3164:TRP:CZ3	2.55	0.41
4:F:919:LEU:HB2	4:F:968:VAL:HG21	2.01	0.41
4:F:1039:TRP:O	4:F:1043:GLN:HG2	2.20	0.41
4:F:1407:LYS:O	4:F:1412:LYS:HD2	2.20	0.41
4:F:2142:ILE:HD13	4:F:2145:PHE:CD2	2.56	0.41
4:F:3113:ASN:O	4:F:3117:ILE:N	2.45	0.41
4:F:3133:GLN:O	4:F:3137:GLU:HG2	2.20	0.41
4:F:3281:CYS:HB3	4:F:3329:LEU:HD13	2.03	0.41
4:F:3481:SER:O	4:F:3485:LYS:HG2	2.21	0.41
4:F:3556:ALA:O	4:F:3559:LYS:HG2	2.19	0.41
4:F:3660:ASN:O	4:F:3664:ASN:ND2	2.53	0.41
4:F:3886:ALA:O	4:F:3890:MET:HG3	2.19	0.41
4:F:4079:ALA:O	4:F:4083:GLY:N	2.54	0.41
5:G:40:PHE:CZ	5:G:71:TYR:HE1	2.38	0.41
5:G:50:GLU:HG2	5:G:171:ASN:HD22	1.85	0.41
5:G:114:LYS:HG3	5:G:115:ARG:N	2.34	0.41
5:G:190:ALA:HA	5:G:193:LEU:HG	2.02	0.41
5:G:288:LEU:N	6:H:311:ILE:O	2.35	0.41
5:G:340:PHE:HB2	5:G:408:PRO:HD3	2.03	0.41
5:G:380:THR:O	5:G:383:SER:OG	2.25	0.41
6:H:346:CYS:SG	6:H:347:LYS:N	2.94	0.41
6:H:488:GLN:CG	6:H:512:ILE:HG12	2.50	0.41
4:A:300:TRP:HB3	4:A:312:ALA:HB2	2.02	0.41
4:A:440:VAL:HG12	4:A:441:MET:CE	2.50	0.41
4:A:913:ARG:HA	4:A:913:ARG:HD2	1.80	0.41
4:A:1104:LEU:O	4:A:1108:MET:HG2	2.19	0.41
4:A:1112:ALA:HB1	4:A:1180:GLN:NE2	2.35	0.41
4:A:1205:ASN:HA	4:A:1275:THR:HA	2.03	0.41
4:A:1468:LEU:HG	4:A:1477:HIS:HE1	1.85	0.41
4:A:1775:GLU:CD	4:A:1822:ARG:HD3	2.45	0.41
4:A:2844:LEU:HD22	4:A:2875:ALA:HB1	2.03	0.41
4:A:3470:GLN:HG3	4:A:3474:ARG:NH2	2.35	0.41
4:A:3571:PHE:HE2	4:A:3801:GLY:H	1.67	0.41
4:A:3820:MET:O	4:A:3825:LYS:HE2	2.21	0.41
4:A:3838:GLU:HB3	4:A:3874:ARG:HG2	2.03	0.41
4:A:3907:SER:HB2	4:A:3937:VAL:H	1.85	0.41
4:A:4044:ILE:HG13	4:A:4048:LYS:HZ3	1.84	0.41
6:C:146:GLN:HB2	6:C:149:ILE:HD11	2.03	0.41
6:C:432:GLN:HG3	6:C:434:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:12:LEU:HA	4:S:15:LEU:HB2	2.01	0.41
4:S:175:TYR:HA	4:S:223:CYS:HA	2.02	0.41
4:S:861:SER:HB2	4:S:3167:ARG:HG3	2.02	0.41
4:S:1100:VAL:O	4:S:1104:LEU:N	2.48	0.41
4:S:1636:ASP:OD1	4:S:1636:ASP:N	2.52	0.41
4:S:1820:VAL:HG11	4:S:1876:ILE:HD13	2.01	0.41
4:S:1963:GLN:HG2	4:S:2125:TRP:CE3	2.56	0.41
4:S:2362:VAL:HG22	4:S:2396:LEU:HD11	2.02	0.41
4:S:2538:ARG:HE	4:S:2565:MET:CE	2.33	0.41
4:S:3617:LEU:O	4:S:3637:GLY:HA3	2.20	0.41
4:S:3686:TRP:CZ3	4:S:3719:ILE:HB	2.56	0.41
4:S:3772:ASN:O	4:S:3775:LEU:HB2	2.20	0.41
4:S:3949:ALA:CB	4:S:4064:LEU:HA	2.48	0.41
5:T:88:TYR:HD2	5:T:141:TYR:HB2	1.84	0.41
5:T:355:LEU:O	5:T:357:LYS:HG3	2.20	0.41
5:T:370:PRO:HD3	5:T:382:PHE:HE2	1.86	0.41
5:T:449:THR:HG22	6:U:371:GLU:HG3	2.02	0.41
5:T:480:ASN:N	6:U:428:GLU:OE2	2.43	0.41
6:U:39:THR:O	6:U:42:VAL:HG12	2.21	0.41
6:U:353:ARG:HA	6:U:356:PHE:CD2	2.55	0.41
6:U:617:ILE:HG23	6:U:665:LYS:HE3	2.03	0.41
8:W:19:DA:H2"	8:W:20:DT:C6	2.54	0.41
3:Y:140:MET:HE3	3:Y:140:MET:HB3	1.84	0.41
1:K:28:LEU:HD12	1:K:71:ARG:NH1	2.36	0.41
1:K:70:LEU:O	1:K:74:LEU:HG	2.21	0.41
2:M:847:PHE:CD2	2:M:898:ILE:HG12	2.56	0.41
1:N:28:LEU:HB2	1:N:71:ARG:CZ	2.51	0.41
1:O:92:SER:C	1:O:94:TYR:H	2.28	0.41
3:Q:38:VAL:HB	3:Q:104:LEU:HD23	2.02	0.41
4:F:243:GLN:OE1	4:F:246:ARG:NH1	2.53	0.41
4:F:428:PRO:HB2	4:F:431:TYR:HD2	1.83	0.41
4:F:623:PHE:CZ	4:F:663:ILE:HG23	2.56	0.41
4:F:933:LEU:HD23	4:F:2797:VAL:HG11	2.02	0.41
4:F:1181:THR:HB	4:F:1258:ASP:O	2.21	0.41
4:F:1837:ARG:HD2	4:F:1837:ARG:HA	1.90	0.41
4:F:2412:TYR:CZ	4:F:2450:GLU:HB3	2.55	0.41
4:F:2544:SER:O	4:F:2842:ARG:NH2	2.54	0.41
4:F:2585:GLU:HB2	4:F:2778:GLY:HA3	2.02	0.41
4:F:2930:TYR:HD1	4:F:2933:ILE:HD11	1.85	0.41
4:F:3121:LEU:O	4:F:3125:ARG:HG3	2.21	0.41
4:F:3635:THR:HB	4:F:3670:MET:HE1	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3755:GLY:HA2	4:F:3799:ARG:HA	2.03	0.41
4:F:3962:ARG:NH1	4:F:4125:GLU:HB3	2.24	0.41
4:F:4046:TYR:O	4:F:4050:LYS:HG3	2.20	0.41
5:G:62:MET:SD	5:G:63:SER:N	2.93	0.41
5:G:91:GLU:N	5:G:135:MET:SD	2.91	0.41
6:H:524:THR:O	6:H:527:GLN:HG2	2.20	0.41
6:H:623:PHE:HB2	6:H:631:TYR:CE2	2.54	0.41
7:I:29:DA:N3	7:I:29:DA:H2'	2.36	0.41
4:A:36:ARG:NE	4:A:2426:HIS:HA	2.35	0.41
4:A:291:VAL:HG23	4:A:292:SER:H	1.85	0.41
4:A:727:ALA:HB2	4:A:765:LEU:HD11	2.03	0.41
4:A:741:ILE:HA	4:A:748:TYR:CE2	2.56	0.41
4:A:931:CYS:HB3	4:A:983:LEU:CD2	2.50	0.41
4:A:1642:LYS:HA	4:A:1645:VAL:HG12	2.03	0.41
4:A:3107:ILE:HD13	4:A:3135:LEU:HD13	2.03	0.41
5:B:204:HIS:HD2	5:B:213:ILE:H	1.69	0.41
5:B:343:PRO:HG3	5:B:404:ARG:CA	2.50	0.41
5:B:443:LYS:HG2	5:B:445:LYS:HG2	2.02	0.41
5:B:499:GLU:OE1	6:C:331:MET:HA	2.21	0.41
4:S:23:ASP:OD1	4:S:70:ARG:NH1	2.54	0.41
4:S:748:TYR:HB2	4:S:776:TRP:CZ2	2.56	0.41
4:S:915:THR:HG22	4:S:934:LEU:HD11	2.03	0.41
4:S:1331:ASN:HD22	4:S:1334:LYS:HE3	1.85	0.41
4:S:1611:GLN:HB2	4:S:1613:HIS:ND1	2.36	0.41
4:S:1754:GLN:CD	4:S:1789:GLY:HA2	2.46	0.41
4:S:2277:LEU:HD23	4:S:2277:LEU:HA	1.86	0.41
4:S:2294:ILE:HD12	4:S:2299:TYR:CE2	2.48	0.41
4:S:2478:MET:HE1	4:S:2521:ILE:HD12	2.02	0.41
4:S:2973:ASP:O	4:S:2976:LEU:HG	2.21	0.41
4:S:3041:LEU:HD11	4:S:3064:PHE:HE1	1.86	0.41
4:S:3257:LYS:HG3	4:S:3258:LEU:HD22	2.03	0.41
4:S:3772:ASN:HA	4:S:3775:LEU:HG	2.03	0.41
4:S:3778:ASP:OD1	4:S:3779:SER:N	2.52	0.41
4:S:3920:ILE:HG22	4:S:3922:ASP:H	1.86	0.41
5:T:163:HIS:CE1	5:T:165:ARG:HH21	2.38	0.41
5:T:287:LYS:HB2	5:T:296:VAL:O	2.21	0.41
5:T:403:ARG:CZ	8:W:29:DG:H5'	2.51	0.41
5:T:463:LYS:HG2	6:U:383:ALA:HB1	2.02	0.41
6:U:372:ALA:O	6:U:375:VAL:HG12	2.21	0.41
6:U:689:GLU:HA	6:U:695:SER:OG	2.21	0.41
3:Y:7:GLY:HA3	3:Y:28:PHE:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:168:GLN:HG2	3:Y:174:LEU:HD23	2.03	0.41
1:K:133:THR:C	1:K:135:ALA:N	2.77	0.41
1:K:135:ALA:C	1:L:137:ASN:CB	2.93	0.41
1:K:158:VAL:HG22	2:M:840:ILE:CG2	2.51	0.41
2:P:713:ILE:HA	2:P:745:HIS:CG	2.55	0.41
3:R:134:HIS:HA	3:R:218:TYR:OH	2.21	0.41
4:F:224:LEU:CD1	4:F:227:LEU:HD13	2.51	0.41
4:F:527:TYR:O	4:F:530:LEU:HB3	2.21	0.41
4:F:565:TYR:CD1	4:F:637:LYS:HG2	2.56	0.41
4:F:898:PHE:CE1	4:F:2566:THR:HG23	2.55	0.41
4:F:1101:PHE:HB3	4:F:1154:PRO:HG3	2.03	0.41
4:F:1184:ARG:HH21	4:F:1262:ALA:HA	1.84	0.41
4:F:1303:MET:HE3	4:F:1303:MET:HB3	1.82	0.41
4:F:1417:THR:O	4:F:1421:GLU:OE1	2.38	0.41
4:F:1551:ILE:HG13	4:F:1552:HIS:N	2.36	0.41
4:F:1616:LEU:HD22	4:F:1656:ASP:HA	2.03	0.41
4:F:1915:LEU:HA	4:F:1918:LEU:HD12	2.03	0.41
4:F:2234:ASN:HA	4:F:2237:ILE:HD12	2.02	0.41
4:F:2246:LYS:HA	4:F:2249:LEU:HD11	2.03	0.41
4:F:2428:ASP:O	4:F:2431:ARG:N	2.54	0.41
4:F:2445:LYS:HB2	4:F:2445:LYS:HE2	1.88	0.41
4:F:2486:ASP:N	4:F:2486:ASP:OD1	2.54	0.41
4:F:2884:LEU:HA	4:F:2886:GLN:OE1	2.21	0.41
4:F:3178:ILE:O	4:F:3182:ILE:HG12	2.20	0.41
4:F:3254:LEU:HB3	4:F:3283:LEU:HD11	2.02	0.41
4:F:3602:ASN:C	4:F:3604:LYS:H	2.29	0.41
4:F:3758:LEU:O	4:F:3795:PRO:HG3	2.21	0.41
4:F:4042:GLN:HB3	4:F:4046:TYR:CZ	2.56	0.41
6:H:400:ARG:HH12	8:J:34:DT:C5'	2.34	0.41
6:H:459:ASP:C	6:H:461:MET:H	2.29	0.41
4:A:35:ILE:HG22	4:A:81:CYS:HA	2.03	0.41
4:A:452:LYS:O	4:A:456:VAL:HG22	2.21	0.41
4:A:916:GLU:O	4:A:920:THR:OG1	2.35	0.41
4:A:1124:ILE:HD12	4:A:1182:GLU:OE2	2.21	0.41
4:A:1226:GLY:N	4:A:1263:ALA:HB2	2.36	0.41
4:A:1261:LEU:HD21	4:A:1336:THR:HG23	2.02	0.41
4:A:1568:ASN:ND2	4:A:1603:GLN:HB2	2.36	0.41
4:A:2253:TYR:HA	4:A:2256:ILE:HD11	2.01	0.41
4:A:2443:MET:HA	4:A:2446:LEU:CB	2.49	0.41
4:A:2537:ASP:OD1	4:A:2538:ARG:N	2.54	0.41
4:A:3027:LEU:HA	4:A:3031:TRP:CG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3588:TRP:CD1	4:A:3613:MET:HE1	2.56	0.41
4:A:3777:GLN:O	4:A:3778:ASP:C	2.64	0.41
5:B:36:ASP:HA	5:B:163:HIS:O	2.20	0.41
5:B:470:ARG:HA	6:C:389:MET:SD	2.60	0.41
4:S:627:VAL:HG22	4:S:669:LEU:HD11	2.03	0.41
4:S:670:LEU:O	4:S:674:VAL:HG22	2.21	0.41
4:S:889:GLU:H	4:S:891:ARG:NH2	2.19	0.41
4:S:939:MET:HE3	4:S:2782:ASP:C	2.46	0.41
4:S:1078:ALA:HA	4:S:1128:CYS:N	2.28	0.41
4:S:1184:ARG:O	4:S:1188:ILE:HG23	2.21	0.41
4:S:1342:MET:HB3	4:S:1402:LEU:HD22	2.01	0.41
4:S:1360:LYS:HA	4:S:1363:LEU:HD23	2.02	0.41
4:S:1480:GLY:O	4:S:1527:ARG:NH1	2.54	0.41
4:S:1960:LYS:HA	4:S:1963:GLN:O	2.21	0.41
4:S:2217:ASN:O	4:S:2221:LYS:HD3	2.21	0.41
4:S:2920:VAL:HB	4:S:2947:ILE:HG23	2.02	0.41
4:S:3096:VAL:HB	4:S:3100:LYS:HE3	2.03	0.41
4:S:3410:ILE:O	4:S:3414:MET:HG2	2.21	0.41
4:S:3574:ALA:HA	4:S:3577:GLN:OE1	2.20	0.41
4:S:3692:VAL:HG23	4:S:3722:PHE:CZ	2.56	0.41
4:S:3810:VAL:HG22	4:S:3814:ASP:HB2	2.03	0.41
5:T:39:ILE:CD1	5:T:84:ALA:HB3	2.49	0.41
5:T:166:ILE:O	5:T:201:ASP:N	2.41	0.41
6:U:16:VAL:HA	6:U:20:MET:CE	2.43	0.41
6:U:32:GLU:HA	6:U:35:LYS:HE3	2.03	0.41
6:U:44:ARG:HH21	6:U:232:ARG:H	1.67	0.41
6:U:400:ARG:HA	8:W:33:DA:H2'	2.02	0.41
6:U:594:PRO:HG2	6:U:634:LYS:NZ	2.36	0.41
7:V:27:DC:H42	8:W:31:DT:H3	1.69	0.41
3:X:7:GLY:O	3:X:10:MET:HE3	2.21	0.41
3:X:10:MET:HG2	3:X:11:GLN:HG2	2.03	0.41
3:X:73:LEU:HD23	3:X:73:LEU:HA	1.71	0.41
3:X:216:ASP:O	3:X:219:MET:HE1	2.21	0.41
3:Y:81:ARG:O	3:Y:83:LEU:N	2.53	0.41
1:L:94:TYR:HA	1:L:112:ASN:HA	2.02	0.41
1:L:163:GLU:HG2	2:M:843:LEU:HD21	2.03	0.41
1:N:20:LEU:HD23	1:N:73:ALA:O	2.21	0.41
1:N:169:LYS:HB3	2:P:847:PHE:CZ	2.56	0.41
1:O:144:LEU:O	1:O:145:GLN:C	2.64	0.41
1:O:162:PHE:CE2	2:P:843:LEU:HB2	2.55	0.41
3:Q:25:ALA:HA	3:Q:37:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:31:LYS:HD2	3:Q:31:LYS:HA	1.79	0.41
3:R:46:HIS:CB	3:R:126:ALA:HA	2.51	0.41
3:R:219:MET:HA	3:R:222:THR:HG23	2.03	0.41
4:F:67:VAL:HA	4:F:71:LYS:HG2	2.02	0.41
4:F:379:LYS:HD3	4:F:383:PHE:CE2	2.55	0.41
4:F:487:LEU:HB2	4:F:575:ILE:HD13	2.03	0.41
4:F:675:ARG:HH21	4:F:679:LYS:HB2	1.86	0.41
4:F:832:LYS:C	4:F:834:LEU:H	2.27	0.41
4:F:968:VAL:O	4:F:971:ARG:HG3	2.21	0.41
4:F:974:CYS:SG	4:F:1025:LEU:HA	2.61	0.41
4:F:1256:TRP:CH2	4:F:1296:PHE:HD2	2.39	0.41
4:F:1414:ILE:HG22	4:F:1418:HIS:HE1	1.85	0.41
4:F:1452:VAL:HG22	4:F:1517:LEU:CD1	2.48	0.41
4:F:1771:GLN:N	4:F:1775:GLU:OE2	2.42	0.41
4:F:1817:GLN:HB2	4:F:1868:THR:HB	2.03	0.41
4:F:1871:MET:HA	4:F:1874:TYR:HD2	1.84	0.41
4:F:1881:TYR:HE1	4:F:1953:CYS:HB2	1.86	0.41
4:F:2146:LEU:O	4:F:2150:VAL:HG22	2.21	0.41
4:F:2225:HIS:CG	4:F:2230:VAL:HG23	2.56	0.41
4:F:2287:PRO:HB3	4:F:2326:ILE:HG12	2.02	0.41
4:F:2326:ILE:O	4:F:2330:VAL:N	2.53	0.41
4:F:2335:ASN:O	4:F:2336:ILE:HD13	2.21	0.41
4:F:2406:GLU:OE1	4:F:2406:GLU:N	2.42	0.41
4:F:2552:VAL:HG22	4:F:2851:PHE:CG	2.56	0.41
4:F:2834:GLN:O	4:F:2838:GLN:HG3	2.20	0.41
4:F:3064:PHE:O	4:F:3067:LYS:HG3	2.20	0.41
4:F:3082:TYR:HB3	4:F:3085:GLU:HB2	2.02	0.41
4:F:3166:ASN:CG	4:F:3186:ARG:HD2	2.46	0.41
4:F:3169:PRO:HD2	4:F:3179:TRP:CH2	2.56	0.41
4:F:3178:ILE:H	4:F:3178:ILE:HD12	1.86	0.41
4:F:3250:ASN:OD1	4:F:3286:CYS:HB3	2.21	0.41
4:F:3259:LEU:HD13	4:F:3280:TYR:HB2	2.03	0.41
4:F:3467:ARG:HH11	4:F:4000:ASN:HD21	1.68	0.41
4:F:3570:ASP:HA	4:F:3573:ASN:HB2	2.03	0.41
4:F:3606:ILE:HA	4:F:3606:ILE:HD13	1.89	0.41
4:F:3835:PRO:HG2	4:F:3836:PRO:HD3	2.03	0.41
4:F:3837:CYS:CB	4:F:3874:ARG:HD2	2.48	0.41
4:F:3922:ASP:OD1	4:F:3927:ASN:HB3	2.20	0.41
4:F:4049:ARG:O	4:F:4054:ALA:HB2	2.21	0.41
4:F:4085:LYS:H	4:F:4088:ASN:HB2	1.86	0.41
4:F:4091:ALA:O	4:F:4094:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:89:GLY:HA2	5:G:140:ASP:O	2.21	0.41
5:G:384:ALA:HA	5:G:387:ILE:HG12	2.02	0.41
5:G:399:ARG:NH2	6:H:517:ASN:HA	2.36	0.41
5:G:426:GLN:NE2	5:G:429:PRO:HA	2.35	0.41
5:G:479:GLU:HG2	5:G:505:ASP:CG	2.46	0.41
5:G:489:ASN:CG	6:H:331:MET:HB2	2.46	0.41
6:H:184:ARG:HA	6:H:519:PRO:CA	2.44	0.41
6:H:239:LYS:HE3	6:H:239:LYS:HB2	1.91	0.41
6:H:340:PHE:HD1	6:H:395:TYR:CD1	2.38	0.41
6:H:426:PHE:HB2	6:H:429:ASP:HB2	2.02	0.41
6:H:527:GLN:HA	6:H:530:LEU:HB3	2.02	0.41
6:H:528:ILE:O	6:H:531:SER:OG	2.30	0.41
6:H:660:LYS:HE3	6:H:707:PRO:HB3	2.03	0.41
6:H:677:ILE:HG23	6:H:681:ASP:OD2	2.21	0.41
7:I:24:DA:O3'	7:I:26:DA:C6	2.74	0.41
7:I:32:DA:H2	8:J:27:DT:H3	1.68	0.41
4:A:82:ARG:CZ	4:A:114:VAL:HG12	2.51	0.41
4:A:256:ILE:HG22	4:A:257:ARG:H	1.86	0.41
4:A:370:ALA:HA	4:A:373:CYS:SG	2.61	0.41
4:A:606:SER:O	4:A:608:PRO:HD3	2.21	0.41
4:A:610:ALA:HA	4:A:723:ASP:O	2.20	0.41
4:A:620:PHE:CE1	4:A:663:ILE:HG23	2.56	0.41
4:A:846:ILE:HG12	4:A:851:ILE:HG13	2.02	0.41
4:A:1221:ILE:HB	4:A:1281:VAL:HG22	2.03	0.41
4:A:1276:VAL:HG22	4:A:1280:GLN:HB3	2.03	0.41
4:A:1527:ARG:NH1	4:A:1527:ARG:O	2.54	0.41
4:A:1649:LEU:O	4:A:1653:LEU:HG	2.20	0.41
4:A:1693:VAL:HG22	4:A:1749:ALA:HB1	2.02	0.41
4:A:1757:MET:O	4:A:1760:GLU:HG2	2.21	0.41
4:A:1862:THR:HG22	4:A:1866:GLN:OE1	2.21	0.41
4:A:1939:LEU:HD12	4:A:1942:CYS:SG	2.61	0.41
4:A:2362:VAL:HA	4:A:2396:LEU:HD23	2.03	0.41
4:A:2559:THR:HG23	4:A:2809:PHE:HD1	1.86	0.41
4:A:2587:GLN:C	4:A:2776:ARG:HA	2.46	0.41
4:A:2836:LEU:HD23	4:A:2836:LEU:HA	1.88	0.41
4:A:2839:ASP:HB3	4:A:2843:PHE:CZ	2.56	0.41
4:A:2952:ILE:HD12	4:A:2981:TRP:CH2	2.53	0.41
4:A:3027:LEU:HD11	4:A:3044:MET:HG3	2.03	0.41
4:A:3335:ARG:HE	4:A:3422:GLN:HE22	1.68	0.41
4:A:3389:VAL:HG13	4:A:3413:TYR:HE1	1.86	0.41
4:A:3568:ILE:O	4:A:3572:ILE:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3952:PHE:N	4:A:4067:GLY:O	2.37	0.41
4:A:4074:PHE:HA	4:A:4077:TYR:CD2	2.56	0.41
5:B:366:LEU:HD22	6:C:431:ARG:NE	2.36	0.41
5:B:439:PHE:HD2	6:C:270:GLU:H	1.67	0.41
6:C:108:LEU:HD23	6:C:111:LEU:HD12	2.02	0.41
6:C:236:VAL:HG22	6:C:511:HIS:HD2	1.86	0.41
6:C:411:HIS:O	6:C:417:GLU:HA	2.21	0.41
4:S:267:VAL:HB	4:S:268:PRO:HD3	2.02	0.41
4:S:268:PRO:HB2	4:S:308:LEU:HD22	2.02	0.41
4:S:411:PRO:CB	4:S:453:MET:HE3	2.41	0.41
4:S:484:HIS:ND1	4:S:575:ILE:HD11	2.36	0.41
4:S:944:LYS:HA	4:S:2577:PHE:CE2	2.53	0.41
4:S:1040:SER:O	4:S:1044:ILE:HB	2.21	0.41
4:S:1078:ALA:O	4:S:1129:ASP:HB2	2.21	0.41
4:S:1377:CYS:HA	4:S:1454:ALA:CB	2.51	0.41
4:S:1389:VAL:HG23	4:S:1391:VAL:HG22	2.03	0.41
4:S:1723:PRO:HB2	4:S:1724:MET:SD	2.61	0.41
4:S:1728:GLU:HB2	6:U:597:ASN:ND2	2.35	0.41
4:S:1787:ARG:HE	4:S:1830:HIS:CE1	2.37	0.41
4:S:2215:LEU:HA	4:S:2218:PHE:CD2	2.56	0.41
4:S:2386:LEU:HD23	4:S:2418:LYS:HB3	2.02	0.41
4:S:3145:ILE:HD13	4:S:3189:PHE:HD1	1.85	0.41
4:S:3183:ILE:HG22	4:S:3238:MET:SD	2.61	0.41
4:S:3335:ARG:NE	4:S:3339:ASN:HD21	2.19	0.41
4:S:3382:PHE:HE1	4:S:3445:LEU:HD11	1.84	0.41
4:S:3577:GLN:HA	4:S:3629:ARG:NH1	2.35	0.41
4:S:3644:PHE:CE2	4:S:3662:ILE:HB	2.55	0.41
4:S:4042:GLN:HB3	4:S:4066:LEU:HD22	2.02	0.41
5:T:69:SER:HB3	5:T:245:LYS:HB3	2.03	0.41
5:T:102:ILE:HD11	5:T:145:GLU:HB2	2.03	0.41
5:T:398:CYS:HB3	5:T:413:LEU:HD11	2.03	0.41
5:T:403:ARG:HB3	7:V:32:DA:OP2	2.20	0.41
6:U:197:ILE:HG12	6:U:201:GLN:OE1	2.20	0.41
6:U:314:PHE:O	6:U:316:TYR:N	2.53	0.41
6:U:446:PRO:HA	6:U:450:GLN:HB2	2.03	0.41
6:U:645:GLU:HG2	6:U:648:LYS:NZ	2.36	0.41
8:W:19:DA:H1'	8:W:20:DT:C2	2.56	0.41
3:X:23:LEU:HD22	3:X:40:ASP:HA	2.02	0.41
1:K:127:ILE:HD13	1:L:19:PHE:HZ	1.86	0.41
3:R:45:TRP:HB3	3:R:123:CYS:HB3	2.03	0.41
3:R:81:ARG:O	3:R:83:LEU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:60:SER:O	4:F:61:ARG:C	2.64	0.41
4:F:98:GLN:C	4:F:100:ILE:N	2.79	0.41
4:F:250:ASN:HA	4:F:275:PHE:CE2	2.56	0.41
4:F:531:PHE:O	4:F:534:LEU:HB2	2.21	0.41
4:F:966:PHE:O	4:F:970:LEU:HG	2.21	0.41
4:F:1392:MET:O	4:F:1395:LEU:HB2	2.21	0.41
4:F:1518:ALA:HA	4:F:1521:PHE:CD2	2.56	0.41
4:F:1598:ASN:HA	4:F:1601:LEU:HD12	2.02	0.41
4:F:1711:ARG:O	4:F:1715:GLU:OE1	2.39	0.41
4:F:2470:ARG:O	4:F:2473:MET:HB2	2.21	0.41
4:F:2531:LEU:HB3	4:F:2538:ARG:HG2	2.03	0.41
4:F:2572:TYR:O	4:F:2788:SER:OG	2.34	0.41
4:F:2787:HIS:O	4:F:2791:ILE:HG12	2.21	0.41
4:F:3192:LYS:HD3	4:F:3195:GLU:OE2	2.21	0.41
4:F:3369:ASP:O	4:F:3373:VAL:HG23	2.21	0.41
4:F:3416:LEU:HD22	4:F:3449:LYS:HD2	2.03	0.41
4:F:3617:LEU:HA	4:F:3633:ILE:HB	2.03	0.41
4:F:3924:HIS:HB3	4:F:4123:GLY:O	2.21	0.41
5:G:49:PHE:HA	5:G:58:THR:CB	2.50	0.41
5:G:145:GLU:OE1	5:G:145:GLU:N	2.47	0.41
5:G:300:THR:OG1	6:H:293:THR:HG22	2.20	0.41
5:G:418:GLU:C	5:G:426:GLN:HE22	2.29	0.41
6:H:501:PRO:HB2	6:H:502:ARG:NH2	2.36	0.41
7:I:43:DT:H1'	7:I:44:DG:N2	2.36	0.41
4:A:189:MET:HG2	4:A:234:PHE:CZ	2.55	0.41
4:A:366:TYR:O	4:A:370:ALA:N	2.54	0.41
4:A:970:LEU:HD11	4:A:1012:ALA:HA	2.03	0.41
4:A:988:VAL:O	4:A:992:ILE:HG12	2.20	0.41
4:A:1069:HIS:HE2	4:A:3747:GLU:HG3	1.85	0.41
4:A:1096:VAL:HA	4:A:1099:PHE:HB2	2.03	0.41
4:A:2300:PHE:CG	4:A:2341:LEU:HD11	2.55	0.41
4:A:3365:SER:HB2	4:A:3372:LYS:NZ	2.36	0.41
4:A:3822:GLN:HA	4:A:3825:LYS:HE3	2.02	0.41
5:B:259:LEU:O	5:B:270:SER:HA	2.21	0.41
5:B:289:TYR:H	5:B:294:GLU:N	2.19	0.41
5:B:411:VAL:HG12	5:B:413:LEU:HD12	2.02	0.41
6:C:245:ILE:HG22	9:D:24:DA:P	2.60	0.41
4:S:306:VAL:HG12	4:S:309:LYS:HD3	2.02	0.41
4:S:659:ARG:C	4:S:660:LEU:HD12	2.46	0.41
4:S:719:LYS:HA	4:S:754:MET:HE2	2.02	0.41
4:S:1055:ASN:O	4:S:1059:LEU:N	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1099:PHE:HA	4:S:1102:GLU:OE2	2.20	0.41
4:S:1163:LEU:HD23	4:S:1163:LEU:HA	1.81	0.41
4:S:1685:ASP:OD1	4:S:1686:LEU:N	2.53	0.41
4:S:1730:PRO:HG2	4:S:1735:ARG:NH2	2.35	0.41
4:S:1762:MET:HG3	4:S:1778:PHE:CZ	2.56	0.41
4:S:1919:CYS:SG	4:S:1920:TYR:N	2.94	0.41
4:S:2246:LYS:HA	4:S:2249:LEU:HD12	2.01	0.41
4:S:2539:LEU:HD13	4:S:2562:LEU:HD13	2.03	0.41
4:S:3015:SER:HB3	4:S:3047:SER:HB2	2.03	0.41
4:S:3238:MET:HE3	4:S:3238:MET:HB3	1.82	0.41
4:S:3413:TYR:CE1	4:S:3416:LEU:HD22	2.56	0.41
4:S:3787:GLN:H	4:S:3910:LEU:HG	1.87	0.41
4:S:3817:LEU:HA	4:S:3822:GLN:HA	2.03	0.41
4:S:4038:TRP:HZ3	4:S:4040:PRO:HA	1.86	0.41
6:U:112:ILE:O	6:U:115:MET:HG2	2.21	0.41
6:U:247:TRP:H	6:U:264:TYR:HE2	1.69	0.41
6:U:265:LYS:HG2	6:U:362:LEU:HG	2.03	0.41
6:U:285:LYS:HA	6:U:285:LYS:HD3	1.90	0.41
6:U:351:VAL:HG11	6:U:424:LEU:HD22	2.03	0.41
6:U:476:LEU:HB2	6:U:519:PRO:HD3	2.03	0.41
6:U:611:GLU:HG2	6:U:612:ALA:N	2.36	0.41
3:X:183:PRO:O	3:X:185:GLU:HG2	2.21	0.41
3:X:210:PHE:CD2	3:X:211:VAL:HG13	2.55	0.41
1:L:33:VAL:HG13	1:L:46:THR:HA	2.03	0.40
1:L:178:LYS:HD2	2:M:786:GLU:HB2	2.02	0.40
2:M:668:SER:O	2:M:703:GLY:N	2.54	0.40
1:N:99:LYS:O	1:N:106:PHE:HB2	2.21	0.40
1:N:191:ILE:HG21	2:P:765:TYR:HB3	2.03	0.40
1:O:22:VAL:HG12	1:O:24:TRP:CE3	2.56	0.40
3:Q:50:ASP:O	3:Q:54:VAL:HG23	2.21	0.40
3:Q:208:LYS:HA	3:Q:211:VAL:HG22	2.03	0.40
3:R:10:MET:HA	3:R:222:THR:HB	2.02	0.40
3:R:24:LEU:HD23	3:R:24:LEU:HA	1.93	0.40
4:F:172:GLU:CB	4:F:220:LEU:HA	2.51	0.40
4:F:364:ARG:HH12	4:F:463:LYS:NZ	2.19	0.40
4:F:440:VAL:O	4:F:443:ILE:HG12	2.21	0.40
4:F:642:PHE:O	4:F:645:TRP:N	2.54	0.40
4:F:713:GLU:OE2	4:F:714:VAL:HG13	2.21	0.40
4:F:747:ALA:O	4:F:750:PRO:HD2	2.21	0.40
4:F:997:ASN:O	4:F:1001:PHE:HB2	2.21	0.40
4:F:1512:SER:O	4:F:1516:GLU:OE1	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2158:ARG:O	4:F:2199:LEU:HD12	2.21	0.40
4:F:2166:SER:O	4:F:2167:PRO:C	2.61	0.40
4:F:2208:ASP:OD1	4:F:2208:ASP:C	2.63	0.40
4:F:2211:LEU:O	4:F:2215:LEU:HG	2.20	0.40
4:F:2307:MET:HA	4:F:2316:TYR:HB2	2.03	0.40
4:F:2350:LYS:HA	4:F:2354:ASN:OD1	2.21	0.40
4:F:3354:ASP:OD1	4:F:3354:ASP:N	2.44	0.40
4:F:3775:LEU:HA	4:F:3775:LEU:HD23	1.74	0.40
5:G:440:ALA:HA	5:G:443:LYS:HZ2	1.86	0.40
5:G:457:GLU:OE2	5:G:458:GLN:NE2	2.32	0.40
5:G:493:LEU:HB3	6:H:323:PHE:CZ	2.56	0.40
6:H:340:PHE:CE2	6:H:393:VAL:HG21	2.56	0.40
6:H:662:LEU:HD23	6:H:665:LYS:HZ2	1.85	0.40
4:A:102:PRO:HG2	4:A:103:TYR:CD2	2.56	0.40
4:A:173:LYS:NZ	4:A:222:GLY:HA3	2.35	0.40
4:A:408:TYR:CE1	4:A:441:MET:HB3	2.55	0.40
4:A:455:LEU:O	4:A:459:ARG:HG3	2.21	0.40
4:A:978:GLN:HA	4:A:981:ARG:NE	2.36	0.40
4:A:1045:THR:OG1	4:A:1048:GLN:HG2	2.21	0.40
4:A:1456:LYS:HD2	4:A:1456:LYS:HA	1.79	0.40
4:A:2440:TYR:HD1	4:A:2476:ILE:HG12	1.86	0.40
4:A:2803:ILE:HA	4:A:2806:LYS:HE3	2.02	0.40
4:A:2814:SER:HB2	4:A:2818:LYS:NZ	2.37	0.40
4:A:3014:CYS:HA	4:A:3018:SER:HB2	2.04	0.40
4:A:3168:TYR:HA	4:A:3169:PRO:HD3	1.87	0.40
4:A:3530:VAL:C	4:A:3798:SER:HA	2.46	0.40
4:A:4074:PHE:O	4:A:4078:VAL:HG23	2.21	0.40
4:S:156:PHE:O	4:S:159:GLU:HG3	2.21	0.40
4:S:237:SER:OG	4:S:238:MET:N	2.54	0.40
4:S:1061:LYS:HG2	4:S:1152:ARG:NH1	2.33	0.40
4:S:1083:ASN:HA	4:S:1133:HIS:HD2	1.86	0.40
4:S:1326:GLU:HB3	4:S:1329:ARG:HG2	2.03	0.40
4:S:1395:LEU:N	4:S:1396:PRO:HD2	2.37	0.40
4:S:1733:THR:O	4:S:1736:PHE:HB3	2.21	0.40
4:S:2415:LEU:HB2	4:S:2420:PHE:CB	2.51	0.40
4:S:2884:LEU:HD12	4:S:3117:ILE:HD11	2.02	0.40
4:S:3140:GLU:OE1	4:S:3186:ARG:NH2	2.53	0.40
4:S:3729:MET:N	4:S:3729:MET:SD	2.83	0.40
5:T:255:ALA:HB3	7:V:34:DC:H4'	2.02	0.40
5:T:340:PHE:HE2	6:U:485:PRO:HB3	1.85	0.40
5:T:365:SER:O	6:U:431:ARG:NH2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:381:LEU:HD12	6:U:537:PHE:CD2	2.56	0.40
5:T:403:ARG:NH1	8:W:29:DG:H4'	2.36	0.40
7:V:44:DG:C8	7:V:45:DG:H8	2.38	0.40
3:X:146:LEU:O	3:X:150:VAL:N	2.45	0.40
3:Y:115:LEU:N	3:Y:116:PRO:HD3	2.36	0.40
3:Y:153:LEU:O	3:Y:157:LEU:HB2	2.21	0.40
1:K:181:ILE:HD13	2:M:770:ASP:O	2.21	0.40
1:L:6:SER:HB2	1:L:75:LEU:HD13	2.02	0.40
1:L:51:GLU:CD	1:L:112:ASN:HB2	2.47	0.40
1:N:28:LEU:O	1:N:52:ILE:HG21	2.21	0.40
1:N:130:CYS:O	1:N:133:THR:HG22	2.21	0.40
1:N:188:LYS:HA	1:N:191:ILE:HD12	2.02	0.40
3:Q:11:GLN:HG3	3:Q:28:PHE:HD1	1.85	0.40
3:Q:42:GLN:O	3:R:129:SER:HA	2.21	0.40
3:Q:167:TYR:HE2	3:R:173:THR:HA	1.86	0.40
3:R:25:ALA:HA	3:R:38:VAL:HA	2.02	0.40
4:F:14:ARG:O	4:F:18:THR:OG1	2.36	0.40
4:F:83:GLU:HA	4:F:126:PRO:HG3	2.03	0.40
4:F:153:PHE:CD2	4:F:189:MET:HG2	2.56	0.40
4:F:164:LYS:HD3	5:G:300:THR:O	2.21	0.40
4:F:189:MET:O	4:F:193:ALA:CB	2.69	0.40
4:F:681:LYS:HD2	4:F:681:LYS:HA	1.77	0.40
4:F:990:GLN:NE2	4:F:2778:GLY:O	2.53	0.40
4:F:1073:PHE:HD1	4:F:1076:LEU:HD21	1.86	0.40
4:F:1123:THR:HA	4:F:1126:GLN:HB2	2.02	0.40
4:F:1229:CYS:O	4:F:1232:PRO:HD2	2.22	0.40
4:F:2201:THR:HA	4:F:2202:PRO:HD3	1.83	0.40
4:F:2325:LEU:HD23	4:F:2370:SER:HB2	2.03	0.40
4:F:2991:LYS:HG2	4:F:2994:TRP:CZ3	2.56	0.40
4:F:3237:SER:O	4:F:3240:MET:HB2	2.21	0.40
4:F:3324:ARG:HA	4:F:3388:ALA:HA	2.02	0.40
4:F:3915:HIS:O	4:F:3919:GLY:N	2.36	0.40
5:G:315:ASP:OD1	5:G:315:ASP:N	2.53	0.40
6:H:7:LYS:HA	6:H:51:LYS:O	2.21	0.40
6:H:44:ARG:O	6:H:237:PHE:HD1	2.04	0.40
4:A:68:PHE:C	4:A:71:LYS:H	2.28	0.40
4:A:427:VAL:HA	4:A:428:PRO:HD3	1.94	0.40
4:A:1064:TYR:HD1	4:A:1107:TYR:HE1	1.69	0.40
4:A:1069:HIS:CD2	4:A:3741:ARG:HD2	2.56	0.40
4:A:1081:ALA:O	4:A:1085:ILE:HG12	2.21	0.40
4:A:1208:LEU:HD12	4:A:1208:LEU:HA	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1569:THR:HA	4:A:1572:LEU:HD12	2.02	0.40
4:A:1951:VAL:O	4:A:1955:VAL:N	2.43	0.40
4:A:2571:ASP:O	4:A:2787:HIS:ND1	2.54	0.40
4:A:2865:HIS:HB2	4:A:2868:LEU:HB2	2.03	0.40
4:A:2976:LEU:HD12	4:A:2991:LYS:HE3	2.03	0.40
4:A:3367:SER:HB3	4:A:3372:LYS:HD2	2.04	0.40
4:A:3636:PHE:CD2	4:A:3670:MET:HE1	2.56	0.40
6:C:251:LEU:HD12	6:C:340:PHE:CD2	2.56	0.40
6:C:344:GLY:O	6:C:392:ILE:N	2.35	0.40
4:S:995:PHE:CD1	4:S:1008:ALA:HB1	2.56	0.40
4:S:1306:ILE:HA	4:S:1322:THR:N	2.36	0.40
4:S:2559:THR:HG23	4:S:2809:PHE:HB2	2.03	0.40
4:S:2953:THR:HG23	4:S:2993:PHE:CD2	2.56	0.40
4:S:2965:TYR:O	4:S:2969:ALA:N	2.53	0.40
4:S:3354:ASP:OD1	4:S:3354:ASP:N	2.54	0.40
5:T:358:LYS:HG3	6:U:356:PHE:CD2	2.56	0.40
5:T:363:ARG:NH1	8:W:28:DA:H3'	2.36	0.40
6:U:356:PHE:CZ	6:U:407:VAL:HG21	2.56	0.40
6:U:406:GLY:HA2	6:U:423:GLN:HA	2.01	0.40
6:U:668:ILE:HG22	6:U:668:ILE:O	2.22	0.40
8:W:25:DT:H5''	8:W:26:DT:C2	2.56	0.40
1:K:137:ASN:H	1:L:136:GLU:N	2.19	0.40
1:L:126:LEU:HD23	1:L:126:LEU:O	2.21	0.40
2:M:679:GLU:O	2:M:682:ILE:HG22	2.21	0.40
2:M:721:VAL:HG22	2:M:743:MET:HG2	2.03	0.40
2:M:759:ASP:OD2	2:M:763:ASP:HB3	2.21	0.40
2:M:814:ARG:HD3	2:M:849:GLY:HA3	2.03	0.40
2:M:821:ASP:HB3	2:M:865:ILE:HA	2.04	0.40
1:N:43:TRP:HD1	1:N:115:LYS:HB2	1.85	0.40
1:O:22:VAL:HG22	1:O:34:ILE:HD11	2.03	0.40
1:O:115:LYS:HA	1:O:115:LYS:HD2	1.83	0.40
1:O:159:GLN:O	1:O:163:GLU:HG3	2.21	0.40
2:P:752:GLU:HG3	2:P:756:ARG:HH22	1.85	0.40
2:P:825:VAL:HG12	2:P:831:THR:HG21	2.04	0.40
3:Q:46:HIS:NE2	3:Q:130:LEU:O	2.54	0.40
3:R:13:TRP:O	3:R:215:GLN:NE2	2.54	0.40
3:R:115:LEU:HD23	3:R:115:LEU:HA	1.87	0.40
4:F:148:LYS:O	4:F:151:GLU:HG3	2.21	0.40
4:F:357:LYS:HG3	4:F:408:TYR:CE2	2.57	0.40
4:F:921:ALA:HB3	4:F:927:LYS:HG3	2.03	0.40
4:F:1577:LEU:O	4:F:1581:GLU:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1864:ASP:O	4:F:1868:THR:HG23	2.21	0.40
4:F:2291:GLN:CD	4:F:2292:CYS:N	2.78	0.40
4:F:2389:PHE:CD2	4:F:2397:CYS:HB2	2.57	0.40
4:F:2402:LEU:HD21	4:F:2434:VAL:HB	2.03	0.40
4:F:2433:LYS:HA	4:F:2472:GLN:OE1	2.21	0.40
4:F:2458:VAL:HA	4:F:2461:PHE:CD2	2.55	0.40
4:F:2555:LEU:HD11	4:F:2854:PHE:HA	2.02	0.40
4:F:2921:LEU:O	4:F:2924:VAL:HG12	2.21	0.40
4:F:3097:ASP:OD1	4:F:3098:ARG:N	2.51	0.40
4:F:3164:TRP:CD1	4:F:3164:TRP:N	2.88	0.40
4:F:3495:PHE:HD1	4:F:3498:TRP:CZ3	2.39	0.40
4:F:3617:LEU:HD22	4:F:3633:ILE:HG22	2.04	0.40
5:G:263:LEU:HD22	5:G:347:LEU:HB2	2.03	0.40
5:G:318:ARG:N	5:G:329:LEU:O	2.55	0.40
5:G:348:MET:HG3	5:G:410:PHE:CE1	2.56	0.40
5:G:357:LYS:H	5:G:360:HIS:HB2	1.87	0.40
5:G:364:PRO:HG3	6:H:357:MET:HA	2.03	0.40
5:G:418:GLU:CD	6:H:438:LEU:H	2.29	0.40
7:I:30:DA:H2 <sup>?</sup>	8:J:28:DA:N1	2.36	0.40
4:A:207:GLN:HA	4:A:214:GLU:CD	2.46	0.40
4:A:523:THR:OG1	4:A:526:ASP:OD1	2.38	0.40
4:A:530:LEU:O	4:A:534:LEU:HG	2.21	0.40
4:A:741:ILE:HG21	4:A:776:TRP:CE2	2.56	0.40
4:A:752:LEU:HD13	4:A:776:TRP:CZ3	2.57	0.40
4:A:923:ASP:OD2	4:A:926:THR:HG23	2.21	0.40
4:A:1083:ASN:ND2	4:A:1126:GLN:OE1	2.49	0.40
4:A:1205:ASN:O	4:A:1209:LYS:HG2	2.21	0.40
4:A:1373:VAL:HG11	4:A:1422:LYS:HG2	2.04	0.40
4:A:1403:MET:O	4:A:1407:LYS:HB2	2.21	0.40
4:A:1560:TYR:HA	4:A:1567:ILE:HD13	2.03	0.40
4:A:1564:SER:HA	4:A:1567:ILE:HB	2.03	0.40
4:A:1568:ASN:HD21	4:A:1606:ARG:HH22	1.69	0.40
4:A:1769:GLU:O	4:A:1822:ARG:NH1	2.39	0.40
4:A:2943:PHE:HA	4:A:2948:GLY:HA3	2.02	0.40
4:A:3470:GLN:HG3	4:A:3474:ARG:HH21	1.87	0.40
4:A:3472:ILE:HG13	4:A:3478:GLU:O	2.21	0.40
4:A:3496:ILE:HD11	4:A:3712:LEU:HD23	2.03	0.40
4:A:4090:ARG:HG3	4:A:4095:GLU:OE1	2.21	0.40
5:B:46:LYS:HE3	5:B:46:LYS:HB3	1.85	0.40
5:B:247:ARG:NH1	5:B:488:ARG:HG2	2.36	0.40
5:B:399:ARG:HB3	5:B:408:PRO:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:12:LEU:HD21	4:S:88:PHE:CE1	2.57	0.40
4:S:68:PHE:HE1	4:S:114:VAL:HA	1.86	0.40
4:S:266:ALA:HB3	7:V:40:DT:H2"	2.04	0.40
4:S:366:TYR:O	4:S:369:PHE:HB3	2.22	0.40
4:S:410:MET:HB3	4:S:442:GLN:NE2	2.36	0.40
4:S:571:SER:HA	4:S:574:LYS:HE2	2.04	0.40
4:S:710:PHE:O	4:S:714:VAL:HG23	2.21	0.40
4:S:901:MET:HE3	4:S:2819:GLU:C	2.46	0.40
4:S:979:VAL:O	4:S:982:GLN:HG2	2.21	0.40
4:S:994:TRP:CE3	4:S:2780:LEU:HD22	2.57	0.40
4:S:1580:LEU:O	4:S:1584:GLN:HG2	2.22	0.40
4:S:2169:LEU:O	4:S:2173:ALA:N	2.42	0.40
4:S:2185:MET:SD	4:S:2186:VAL:HG23	2.61	0.40
4:S:2185:MET:O	4:S:2189:ILE:HG23	2.22	0.40
4:S:2443:MET:HE1	4:S:2479:TRP:HB3	2.01	0.40
4:S:2468:THR:OG1	4:S:2469:CYS:N	2.53	0.40
4:S:2774:SER:HB2	4:S:2776:ARG:NH2	2.37	0.40
4:S:2885:GLN:O	4:S:2888:VAL:HG12	2.21	0.40
4:S:3087:SER:HB3	4:S:3103:ILE:HD13	2.03	0.40
4:S:3414:MET:O	4:S:3418:ASP:HB2	2.22	0.40
4:S:3529:ILE:O	4:S:3532:PRO:HD2	2.22	0.40
4:S:3687:MET:HE1	4:S:3722:PHE:HB3	2.03	0.40
4:S:3699:LEU:HD23	4:S:3699:LEU:HA	1.96	0.40
4:S:3815:LEU:HD13	4:S:3930:VAL:HG21	2.02	0.40
5:T:173:ASP:N	5:T:173:ASP:OD1	2.52	0.40
6:U:111:LEU:HD13	6:U:150:ILE:CG2	2.50	0.40
6:U:272:VAL:O	6:U:272:VAL:HG13	2.21	0.40
6:U:484:ASN:HD21	6:U:486:ARG:HB3	1.85	0.40
6:U:699:GLU:HB3	6:U:703:LYS:HD2	2.04	0.40
1:K:19:PHE:N	1:K:37:THR:O	2.47	0.40
1:L:62:GLU:HB2	3:Y:116:PRO:HD2	2.03	0.40
3:Q:210:PHE:O	3:Q:214:LEU:HB2	2.21	0.40
3:R:151:ARG:O	3:R:154:ALA:HB3	2.22	0.40
4:F:195:ASN:O	4:F:198:ARG:HG2	2.20	0.40
4:F:340:TYR:HA	4:F:343:GLU:HG2	2.03	0.40
4:F:1369:MET:HG2	4:F:1415:LEU:HD21	2.03	0.40
4:F:2258:GLU:O	4:F:2262:GLY:N	2.54	0.40
4:F:2410:GLU:HG3	4:F:2414:GLN:OE1	2.21	0.40
4:F:2432:GLN:O	4:F:2436:LEU:HG	2.21	0.40
4:F:2528:GLU:HA	4:F:2531:LEU:O	2.21	0.40
4:F:2533:SER:HA	4:F:2538:ARG:NE	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2559:THR:O	4:F:2563:LEU:HD13	2.21	0.40
4:F:2762:LYS:HA	4:F:2765:GLN:NE2	2.37	0.40
4:F:2797:VAL:HG13	4:F:2804:ILE:HD12	2.03	0.40
4:F:2809:PHE:HA	4:F:2812:LEU:HG	2.03	0.40
4:F:2996:LEU:HD21	4:F:3040:TYR:CE1	2.57	0.40
4:F:3000:ASP:O	4:F:3004:HIS:ND1	2.55	0.40
4:F:3009:LYS:HA	4:F:3009:LYS:HD2	1.77	0.40
4:F:3048:LYS:HD3	4:F:3051:LEU:HD12	2.03	0.40
4:F:3089:LEU:O	4:F:3092:LEU:HB3	2.21	0.40
4:F:3266:SER:CB	4:F:3273:LEU:HD23	2.52	0.40
4:F:3572:ILE:HA	4:F:3684:SER:CB	2.51	0.40
4:F:3588:TRP:HE3	4:F:3640:PHE:CE2	2.39	0.40
4:F:3951:GLN:O	4:F:4067:GLY:HA3	2.21	0.40
5:G:207:LYS:HB2	5:G:207:LYS:HE2	1.94	0.40
6:H:118:ILE:HD11	6:H:132:ILE:HD13	2.02	0.40
6:H:253:ILE:HG12	6:H:342:VAL:HB	2.03	0.40
6:H:259:ILE:HG22	6:H:261:ILE:HG23	2.03	0.40
6:H:632:PHE:O	6:H:636:ILE:HG23	2.21	0.40
8:J:34:DT:H6	8:J:34:DT:H2'	1.54	0.40
4:A:763:THR:OG1	4:A:764:PRO:HD3	2.21	0.40
4:A:865:GLN:HE21	4:A:3167:ARG:HA	1.86	0.40
4:A:1178:ARG:O	4:A:1184:ARG:HB2	2.21	0.40
4:A:1623:LEU:HB2	4:A:1661:PHE:CE2	2.56	0.40
4:A:1652:ILE:O	4:A:1656:ASP:N	2.48	0.40
4:A:1717:LEU:HD13	4:A:1746:PHE:CZ	2.56	0.40
4:A:2223:VAL:O	4:A:2223:VAL:HG13	2.22	0.40
4:A:2547:SER:C	4:A:2549:LYS:H	2.30	0.40
4:A:2571:ASP:O	4:A:2574:ASN:HB2	2.22	0.40
4:A:2576:MET:HE1	4:A:2785:ILE:HG13	2.03	0.40
4:A:2592:ASP:OD1	4:A:2592:ASP:N	2.55	0.40
4:A:3511:ALA:HB3	4:A:3550:LYS:CB	2.51	0.40
4:A:3644:PHE:HD1	4:A:3666:LEU:HD13	1.86	0.40
4:A:3839:TYR:HD1	4:A:3874:ARG:NE	2.19	0.40
5:B:343:PRO:HG3	5:B:404:ARG:N	2.37	0.40
5:B:422:ASP:N	5:B:422:ASP:OD1	2.53	0.40
4:S:148:LYS:HE2	4:S:148:LYS:HB2	1.90	0.40
4:S:430:VAL:HA	4:S:1643:MET:HE3	2.04	0.40
4:S:1063:LEU:HD12	4:S:1128:CYS:SG	2.62	0.40
4:S:1082:PHE:O	4:S:1082:PHE:CG	2.74	0.40
4:S:1448:LEU:O	4:S:1452:VAL:HG23	2.21	0.40
4:S:1767:CYS:HA	4:S:1822:ARG:HH12	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1831:CYS:SG	4:S:1836:LEU:HB2	2.61	0.40
4:S:2348:GLN:O	4:S:2353:GLN:HB2	2.21	0.40
4:S:2580:PRO:HA	4:S:2783:ILE:CG1	2.51	0.40
4:S:3090:TYR:CE2	4:S:3098:ARG:HD3	2.57	0.40
4:S:3233:SER:HB3	4:S:3269:ARG:NH1	2.36	0.40
4:S:3729:MET:SD	4:S:3735:PRO:HB2	2.62	0.40
4:S:3887:PHE:CZ	4:S:3970:LEU:HD12	2.56	0.40
4:S:4050:LYS:HG2	4:S:4059:ILE:CG2	2.52	0.40
4:S:4106:CYS:HA	4:S:4109:ASP:HB3	2.02	0.40
5:T:72:ILE:HD13	5:T:501:GLU:OE2	2.22	0.40
5:T:154:PHE:HE2	5:T:166:ILE:HD11	1.86	0.40
5:T:355:LEU:CD2	6:U:474:GLU:HA	2.51	0.40
5:T:356:LEU:HD12	5:T:438:PRO:HD3	2.04	0.40
5:T:488:ARG:HD2	5:T:501:GLU:O	2.22	0.40
6:U:238:LYS:HD2	6:U:242:ARG:HG3	2.04	0.40
6:U:471:ASP:OD1	6:U:471:ASP:N	2.54	0.40
1:K:158:VAL:HG22	2:M:840:ILE:HG21	2.03	0.40
1:L:138:GLN:HA	1:L:141:ASN:HB3	2.04	0.40
2:M:826:ILE:HG13	2:M:874:ASP:CG	2.46	0.40
2:M:856:LEU:HD11	2:M:875:PHE:CD1	2.57	0.40
3:Q:50:ASP:H	3:Q:53:VAL:HG12	1.87	0.40
3:Q:106:LEU:HB2	3:Q:121:PHE:HB2	2.04	0.40
4:F:217:LEU:CD2	4:F:218:PRO:HD3	2.49	0.40
4:F:770:LEU:O	4:F:774:GLU:HG3	2.21	0.40
4:F:892:LEU:HD23	4:F:908:ASP:HA	2.04	0.40
4:F:954:GLY:HA3	4:F:959:TYR:CD1	2.57	0.40
4:F:1220:LEU:O	4:F:1224:PHE:HB2	2.21	0.40
4:F:1431:LEU:O	4:F:1434:VAL:HG13	2.22	0.40
4:F:1627:LYS:HD3	4:F:1627:LYS:HA	1.87	0.40
4:F:1727:ARG:NH2	4:F:1770:GLN:O	2.53	0.40
4:F:2090:ARG:NE	4:F:2094:MET:HE1	2.37	0.40
4:F:2158:ARG:NH2	4:F:2722:ARG:HH21	2.20	0.40
4:F:2213:ASN:O	4:F:2216:LEU:HB3	2.22	0.40
4:F:2382:VAL:O	4:F:2386:LEU:N	2.47	0.40
4:F:2517:LEU:O	4:F:2520:ILE:HG22	2.22	0.40
4:F:2570:PRO:HB3	4:A:900:GLU:C	2.47	0.40
4:F:3135:LEU:O	4:F:3139:GLN:HG2	2.22	0.40
4:F:3480:LEU:O	4:F:3484:THR:HG23	2.22	0.40
5:G:261:LEU:O	5:G:268:VAL:HA	2.21	0.40
5:G:262:LYS:HA	5:G:267:ILE:O	2.22	0.40
6:H:75:GLN:CD	6:H:106:ASP:H	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:283:THR:O	6:H:285:LYS:HG2	2.22	0.40
6:H:366:ALA:O	6:H:368:ARG:NH1	2.55	0.40
6:H:401:ALA:HB2	7:I:25:DA:OP1	2.21	0.40
7:I:27:DC:H1'	8:J:31:DT:N3	2.29	0.40
4:A:393:LYS:HD3	4:A:1687:HIS:CG	2.56	0.40
4:A:418:ALA:O	4:A:422:LEU:HG	2.22	0.40
4:A:490:ILE:O	4:A:622:ALA:HB1	2.21	0.40
4:A:634:LEU:HG	4:A:676:ASN:OD1	2.22	0.40
4:A:1082:PHE:HE1	4:A:1089:PHE:CE2	2.40	0.40
4:A:1852:LYS:HA	4:A:1918:LEU:HD22	2.04	0.40
4:A:1863:PHE:CD2	4:A:1933:LEU:HD13	2.56	0.40
4:A:2257:PHE:CD1	4:A:2299:TYR:HA	2.56	0.40
4:A:2461:PHE:O	4:A:2464:HIS:ND1	2.27	0.40
4:A:2528:GLU:OE1	4:A:2528:GLU:N	2.50	0.40
4:A:2532:PRO:HB2	4:A:2537:ASP:CG	2.46	0.40
4:A:2873:PRO:CG	4:A:2922:ARG:HG2	2.50	0.40
4:A:3903:HIS:O	4:A:3906:SER:OG	2.34	0.40
4:A:4013:TRP:NE1	4:A:4034:ALA:H	2.19	0.40
4:A:4061:CYS:SG	4:A:4065:LEU:HD12	2.61	0.40
5:B:259:LEU:HD23	5:B:259:LEU:HA	1.84	0.40
9:D:27:DC:OP1	10:E:32:DT:H3'	2.21	0.40
4:S:19:LEU:HB3	4:S:67:VAL:HG12	2.03	0.40
4:S:466:LEU:HD23	4:S:544:ILE:HG22	2.03	0.40
4:S:738:HIS:HB3	4:S:779:TYR:HB3	2.03	0.40
4:S:798:GLY:O	4:S:799:TYR:HB2	2.21	0.40
4:S:903:PRO:HA	4:S:2819:GLU:HG3	2.03	0.40
4:S:993:HIS:HA	4:S:1039:TRP:HE1	1.86	0.40
4:S:1070:PRO:HD2	4:S:3743:HIS:CB	2.52	0.40
4:S:1882:SER:OG	4:S:1883:ARG:NH2	2.55	0.40
4:S:2485:ARG:HA	4:S:2499:PHE:CD1	2.56	0.40
4:S:2511:ILE:HD11	4:S:2553:HIS:HB2	2.02	0.40
4:S:3281:CYS:HA	4:S:3301:LEU:C	2.47	0.40
4:S:3997:LEU:HD22	4:S:4001:THR:HG21	2.03	0.40
5:T:443:LYS:C	6:U:265:LYS:HZ2	2.29	0.40
5:T:493:LEU:HD22	6:U:331:MET:SD	2.62	0.40
6:U:44:ARG:NH1	6:U:230:SER:HA	2.36	0.40
6:U:126:LYS:HE3	6:U:126:LYS:HB3	1.95	0.40
6:U:336:GLU:HA	6:U:399:LYS:HA	2.03	0.40
6:U:602:VAL:HG11	6:U:642:PHE:CZ	2.56	0.40
6:U:613:SER:HB3	6:U:655:PHE:CE1	2.57	0.40
6:U:636:ILE:HB	6:U:640:ARG:HH11	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V:44:DG:C5	7:V:45:DG:H2'	2.57	0.40
3:Y:13:TRP:CZ3	3:Y:24:LEU:HB3	2.57	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	K	199/336 (59%)	178 (89%)	19 (10%)	2 (1%)	12	49
1	L	191/336 (57%)	169 (88%)	19 (10%)	3 (2%)	7	38
1	N	199/336 (59%)	179 (90%)	20 (10%)	0	100	100
1	O	191/336 (57%)	171 (90%)	20 (10%)	0	100	100
2	M	256/911 (28%)	234 (91%)	22 (9%)	0	100	100
2	P	256/911 (28%)	233 (91%)	22 (9%)	1 (0%)	30	67
3	Q	214/299 (72%)	191 (89%)	23 (11%)	0	100	100
3	R	214/299 (72%)	196 (92%)	18 (8%)	0	100	100
3	X	214/299 (72%)	190 (89%)	24 (11%)	0	100	100
3	Y	214/299 (72%)	198 (92%)	16 (8%)	0	100	100
4	A	3448/4128 (84%)	3149 (91%)	294 (8%)	5 (0%)	48	83
4	F	3463/4128 (84%)	3030 (88%)	419 (12%)	14 (0%)	30	67
4	S	3464/4128 (84%)	3094 (89%)	361 (10%)	9 (0%)	36	72
5	B	463/609 (76%)	403 (87%)	59 (13%)	1 (0%)	43	78
5	G	485/609 (80%)	436 (90%)	49 (10%)	0	100	100
5	T	466/609 (76%)	412 (88%)	54 (12%)	0	100	100
6	C	499/732 (68%)	443 (89%)	54 (11%)	2 (0%)	30	67
6	H	636/732 (87%)	549 (86%)	87 (14%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	U	636/732 (87%)	552 (87%)	82 (13%)	2 (0%)	36	72
All	All	15708/20769 (76%)	14007 (89%)	1662 (11%)	39 (0%)	44	78

All (39) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	K	138	GLN
4	F	218	PRO
4	F	955	ALA
4	F	956	PRO
4	F	2291	GLN
4	S	956	PRO
4	S	1126	GLN
4	S	1127	CYS
4	S	2291	GLN
6	U	509	GLN
1	L	137	ASN
4	F	3681	LYS
4	F	3683	CYS
4	F	3688	SER
4	A	333	MET
4	S	955	ALA
4	F	178	LEU
4	F	3170	ASP
4	F	3578	LEU
4	F	3685	PRO
4	A	1055	ASN
4	S	266	ALA
6	U	49	GLU
4	F	2265	PRO
5	B	341	ASP
6	C	229	GLU
4	S	263	LYS
1	L	62	GLU
4	F	101	ALA
4	A	432	THR
4	A	1723	PRO
4	S	98	GLN
1	L	64	GLY
4	F	3787	GLN
6	C	461	MET
4	S	1723	PRO

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Mol	Chain	Res	Type
2	P	796	ILE
1	K	134	ILE
4	A	1053	PRO

### 5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	K	176/303 (58%)	175 (99%)	1 (1%)	78	83
1	L	173/303 (57%)	168 (97%)	5 (3%)	37	58
1	N	179/303 (59%)	176 (98%)	3 (2%)	53	69
1	O	173/303 (57%)	173 (100%)	0	100	100
2	M	232/808 (29%)	232 (100%)	0	100	100
2	P	233/808 (29%)	229 (98%)	4 (2%)	53	69
3	Q	191/262 (73%)	191 (100%)	0	100	100
3	R	194/262 (74%)	194 (100%)	0	100	100
3	X	193/262 (74%)	191 (99%)	2 (1%)	68	78
3	Y	194/262 (74%)	194 (100%)	0	100	100
4	A	2916/3671 (79%)	2911 (100%)	5 (0%)	87	87
4	F	2987/3671 (81%)	2964 (99%)	23 (1%)	73	80
4	S	3020/3671 (82%)	3009 (100%)	11 (0%)	84	84
5	B	387/548 (71%)	386 (100%)	1 (0%)	86	86
5	G	436/548 (80%)	435 (100%)	1 (0%)	87	87
5	T	422/548 (77%)	422 (100%)	0	100	100
6	C	426/649 (66%)	426 (100%)	0	100	100
6	H	567/649 (87%)	566 (100%)	1 (0%)	87	87
6	U	573/649 (88%)	570 (100%)	3 (0%)	81	83
All	All	13672/18480 (74%)	13612 (100%)	60 (0%)	81	84

All (60) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	K	140	LYS
1	L	61	MET
1	L	62	GLU
1	L	63	LYS
1	L	136	GLU
1	L	138	GLN
1	N	144	LEU
1	N	145	GLN
1	N	146	LYS
2	P	788	THR
2	P	791	GLU
2	P	792	MET
2	P	795	LEU
4	F	99	LYS
4	F	960	GLN
4	F	963	LYS
4	F	1143	VAL
4	F	1759	LEU
4	F	1760	GLU
4	F	1820	VAL
4	F	1822	ARG
4	F	2263	LYS
4	F	2266	ASN
4	F	2308	SER
4	F	3167	ARG
4	F	3573	ASN
4	F	3575	LEU
4	F	3577	GLN
4	F	3685	PRO
4	F	3688	SER
4	F	3691	LYS
4	F	3695	LEU
4	F	3774	ILE
4	F	3775	LEU
4	F	3958	LEU
4	F	3959	MET
5	G	287	LYS
6	H	156	LYS
4	A	76	ILE
4	A	80	GLU
4	A	432	THR
4	A	2484	TYR
4	A	3530	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	B	345	LEU
4	S	94	GLU
4	S	95	LYS
4	S	96	MET
4	S	1124	ILE
4	S	1125	GLN
4	S	1126	GLN
4	S	2369	LYS
4	S	2385	LEU
4	S	2431	ARG
4	S	3390	GLN
4	S	4068	HIS
6	U	50	ASN
6	U	508	ILE
6	U	509	GLN
3	X	56	GLN
3	X	73	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (194) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	K	87	ASN
1	K	143	HIS
1	L	200	ASN
2	M	692	ASN
2	M	773	GLN
1	N	156	ASN
1	O	18	HIS
1	O	100	ASN
1	O	138	GLN
1	O	145	GLN
1	O	196	ASN
2	P	680	ASN
2	P	692	ASN
2	P	711	ASN
2	P	745	HIS
2	P	772	ASN
2	P	783	ASN
2	P	904	GLN
3	Q	21	ASN
3	Q	32	GLN
3	Q	46	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	Q	56	GLN
3	Q	75	HIS
3	Q	133	GLN
3	R	75	HIS
3	R	78	ASN
3	R	133	GLN
3	R	147	GLN
3	R	149	GLN
3	R	213	ASN
4	F	33	GLN
4	F	865	GLN
4	F	960	GLN
4	F	978	GLN
4	F	993	HIS
4	F	1043	GLN
4	F	1047	GLN
4	F	1049	GLN
4	F	1083	ASN
4	F	1084	ASN
4	F	1222	ASN
4	F	1457	GLN
4	F	1509	GLN
4	F	1534	ASN
4	F	1611	GLN
4	F	1613	HIS
4	F	1738	ASN
4	F	1754	GLN
4	F	1772	HIS
4	F	1946	ASN
4	F	2233	HIS
4	F	2348	GLN
4	F	2352	HIS
4	F	2353	GLN
4	F	2493	ASN
4	F	2496	GLN
4	F	2765	GLN
4	F	2777	HIS
4	F	2841	ASN
4	F	2977	ASN
4	F	3037	GLN
4	F	3130	GLN
4	F	3249	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	F	3326	GLN
4	F	3384	HIS
4	F	3457	ASN
4	F	3524	ASN
4	F	3573	ASN
4	F	3580	ASN
4	F	3664	ASN
4	F	3697	ASN
4	F	3716	HIS
4	F	3760	GLN
4	F	3762	GLN
4	F	3969	ASN
4	F	4088	ASN
5	G	163	HIS
5	G	171	ASN
5	G	176	HIS
5	G	426	GLN
5	G	433	GLN
6	H	33	GLN
6	H	73	GLN
6	H	200	GLN
6	H	312	GLN
6	H	415	ASN
6	H	450	GLN
6	H	500	HIS
6	H	509	GLN
6	H	514	ASN
4	A	32	HIS
4	A	278	HIS
4	A	611	ASN
4	A	771	ASN
4	A	867	ASN
4	A	1043	GLN
4	A	1084	ASN
4	A	1251	GLN
4	A	1367	HIS
4	A	1476	HIS
4	A	1737	ASN
4	A	2354	ASN
4	A	2472	GLN
4	A	2527	HIS
4	A	2830	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	A	2845	ASN
4	A	2859	GLN
4	A	2951	GLN
4	A	2977	ASN
4	A	3037	GLN
4	A	3074	GLN
4	A	3093	GLN
4	A	3104	GLN
4	A	3113	ASN
4	A	3166	ASN
4	A	3177	ASN
4	A	3185	ASN
4	A	3278	GLN
4	A	3327	ASN
4	A	3339	ASN
4	A	3422	GLN
4	A	3590	ASN
4	A	3634	GLN
4	A	3671	ASN
4	A	3679	ASN
4	A	3704	GLN
4	A	3762	GLN
4	A	3769	GLN
4	A	4018	GLN
4	A	4115	ASN
5	B	152	ASN
5	B	293	ASN
5	B	359	HIS
5	B	405	ASN
6	C	330	GLN
6	C	402	ASN
6	C	527	GLN
4	S	16	GLN
4	S	109	ASN
4	S	243	GLN
4	S	442	GLN
4	S	738	HIS
4	S	1125	GLN
4	S	1201	ASN
4	S	1365	ASN
4	S	1367	HIS
4	S	1374	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	S	1390	GLN
4	S	1477	HIS
4	S	1584	GLN
4	S	1614	GLN
4	S	2291	GLN
4	S	2514	ASN
4	S	2768	GLN
4	S	2784	GLN
4	S	2841	ASN
4	S	2864	GLN
4	S	2865	HIS
4	S	2977	ASN
4	S	3185	ASN
4	S	3327	ASN
4	S	3422	GLN
4	S	3590	ASN
4	S	3664	ASN
4	S	3783	GLN
4	S	3915	HIS
4	S	4015	ASN
4	S	4068	HIS
5	T	125	GLN
5	T	128	GLN
5	T	275	ASN
5	T	304	ASN
5	T	320	GLN
5	T	359	HIS
5	T	360	HIS
5	T	405	ASN
5	T	489	ASN
6	U	99	GLN
6	U	103	GLN
6	U	201	GLN
6	U	269	GLN
6	U	404	GLN
6	U	414	HIS
6	U	500	HIS
6	U	514	ASN
6	U	597	ASN
3	X	17	GLN
3	X	32	GLN
3	X	46	HIS

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Mol	Chain	Res	Type
3	X	62	ASN
3	X	134	HIS
3	Y	11	GLN
3	Y	62	ASN
3	Y	120	ASN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

### 5.7 Other polymers [i](#)

There are no such residues in this entry.

### 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

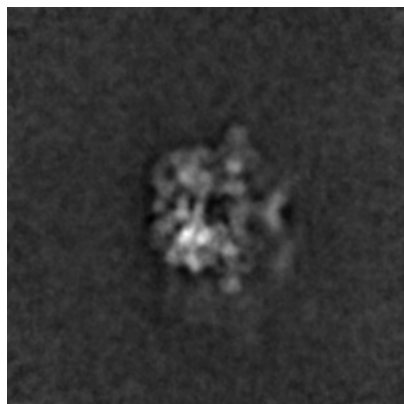
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-16145. These allow visual inspection of the internal detail of the map and identification of artifacts.

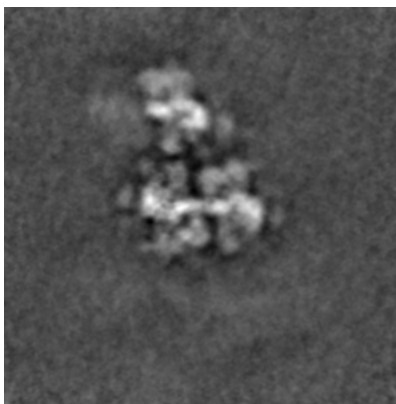
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

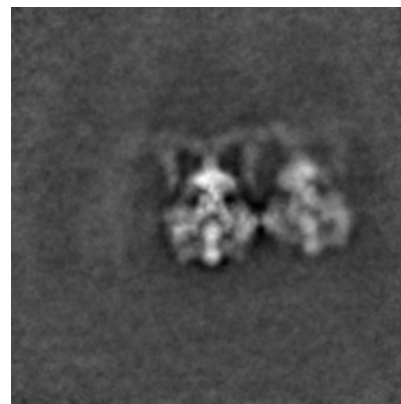
#### 6.1.1 Primary map



X

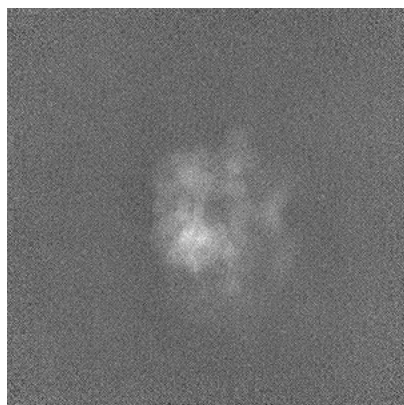


Y

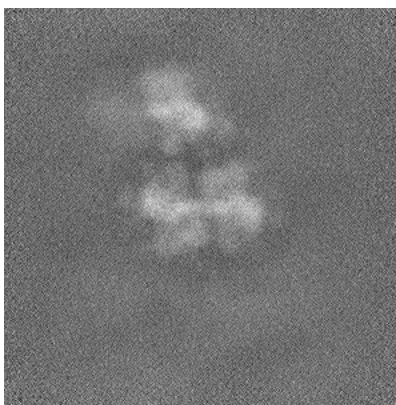


Z

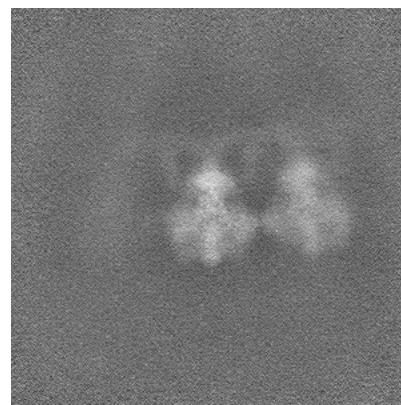
#### 6.1.2 Raw map



X



Y

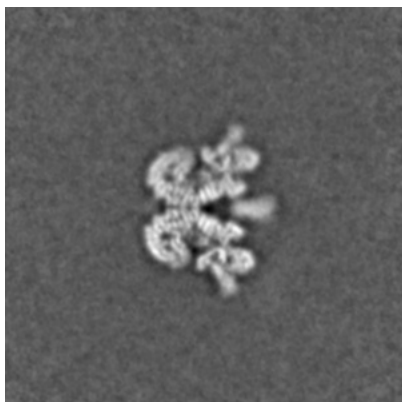


Z

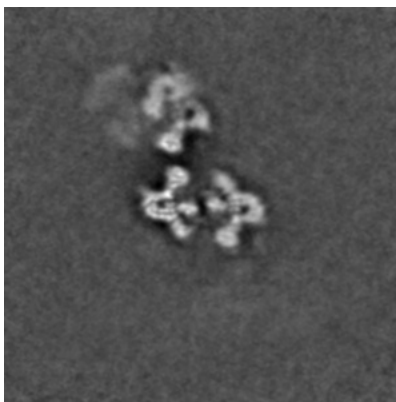
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

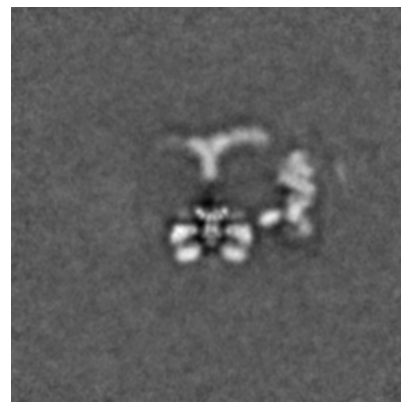
### 6.2.1 Primary map



X Index: 270

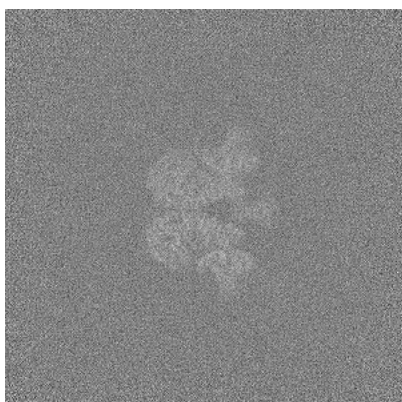


Y Index: 270

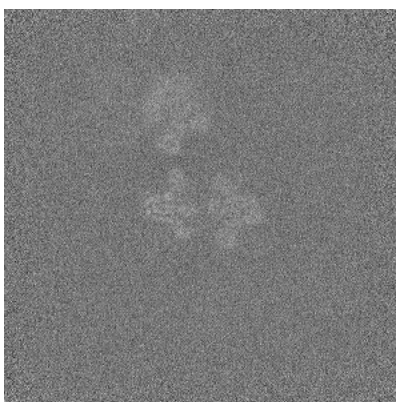


Z Index: 270

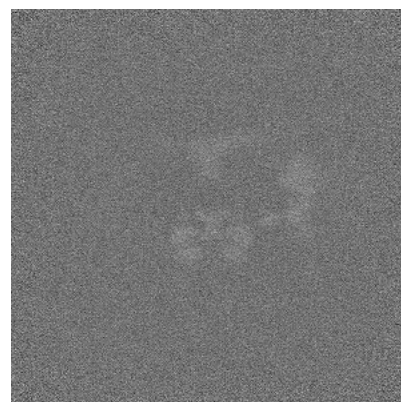
### 6.2.2 Raw map



X Index: 270



Y Index: 270

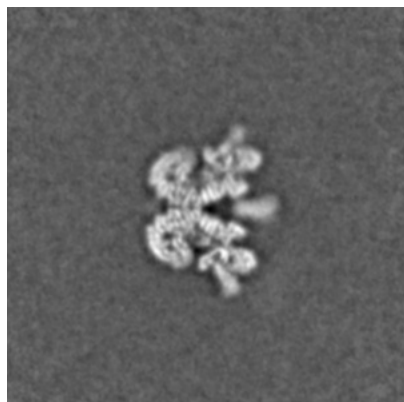


Z Index: 270

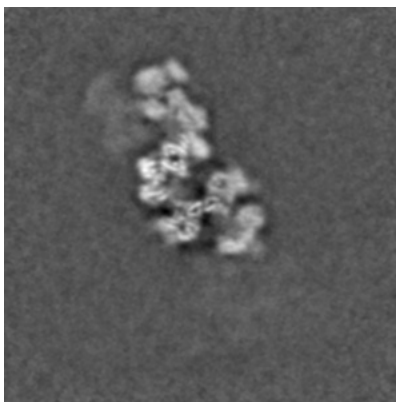
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

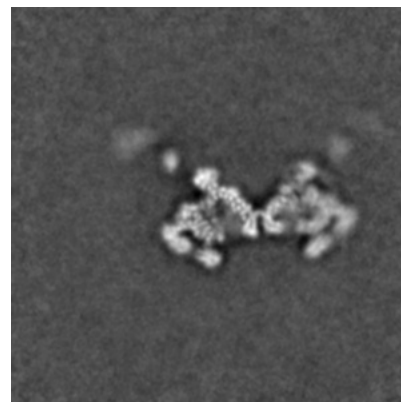
### 6.3.1 Primary map



X Index: 271

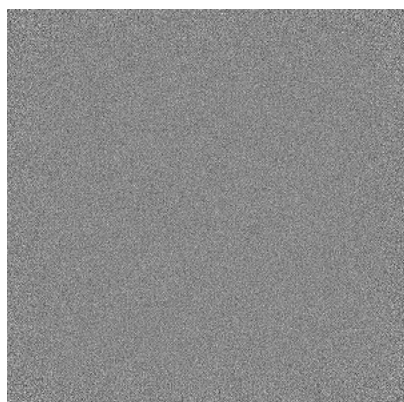


Y Index: 251

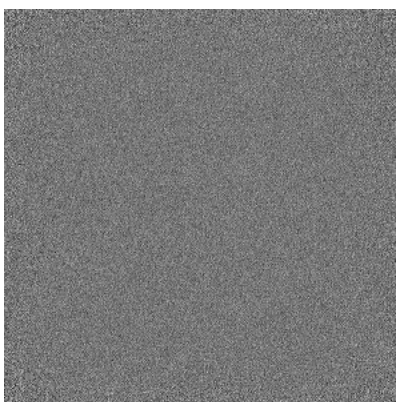


Z Index: 233

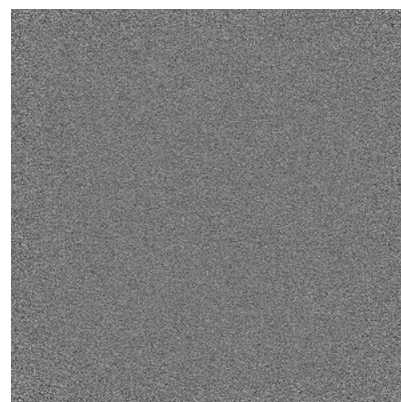
### 6.3.2 Raw map



X Index: 0



Y Index: 0

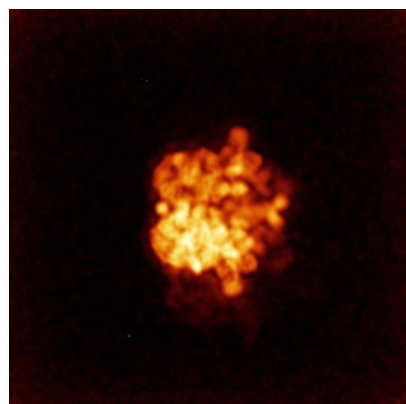


Z Index: 0

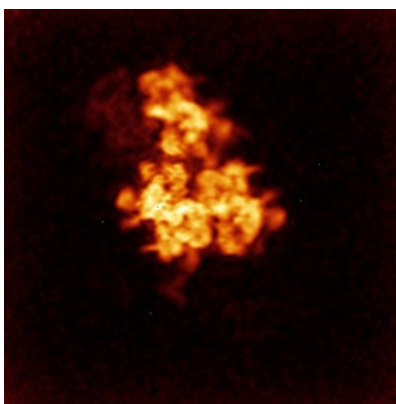
The images above show the largest variance slices of the map in three orthogonal directions.

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

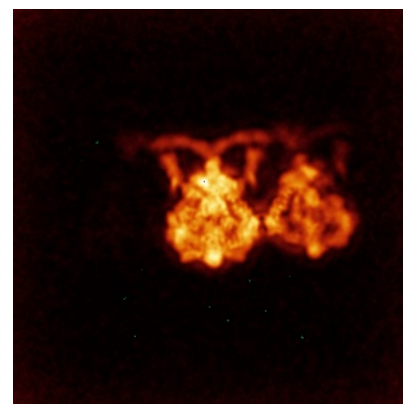
### 6.4.1 Primary map



X

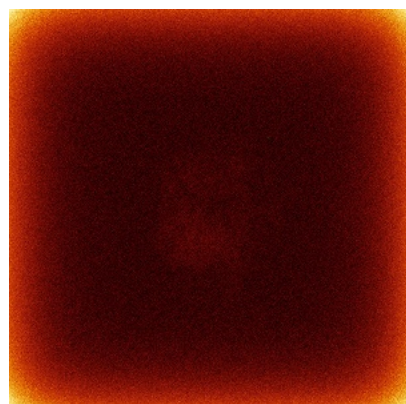


Y

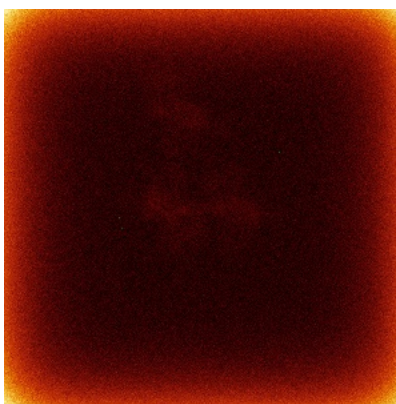


Z

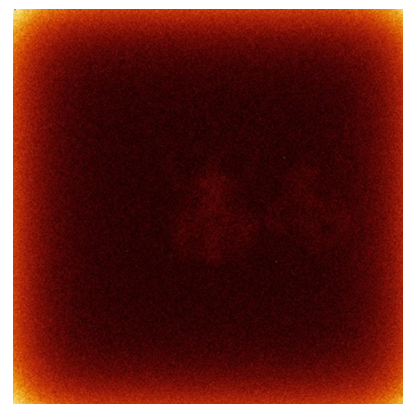
### 6.4.2 Raw map



X



Y

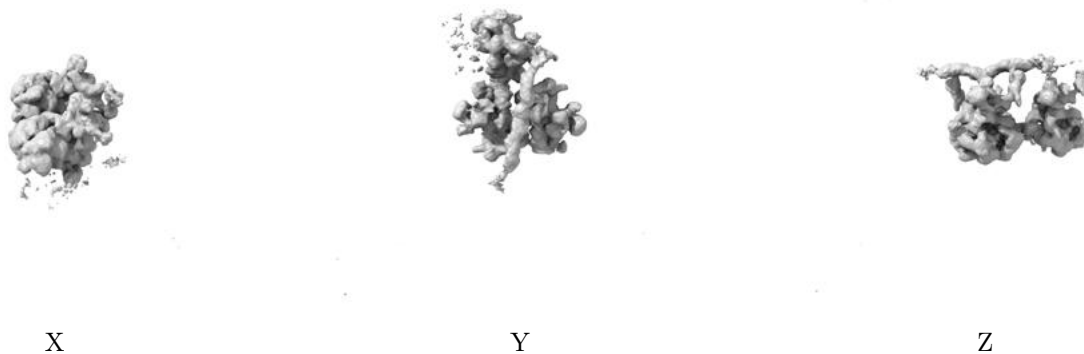


Z

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.

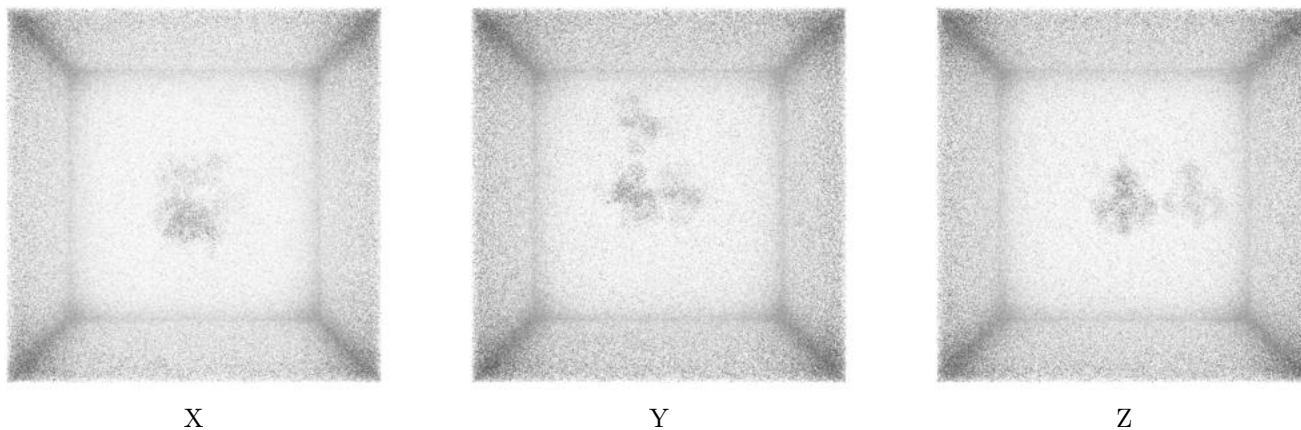
## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.066. 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.

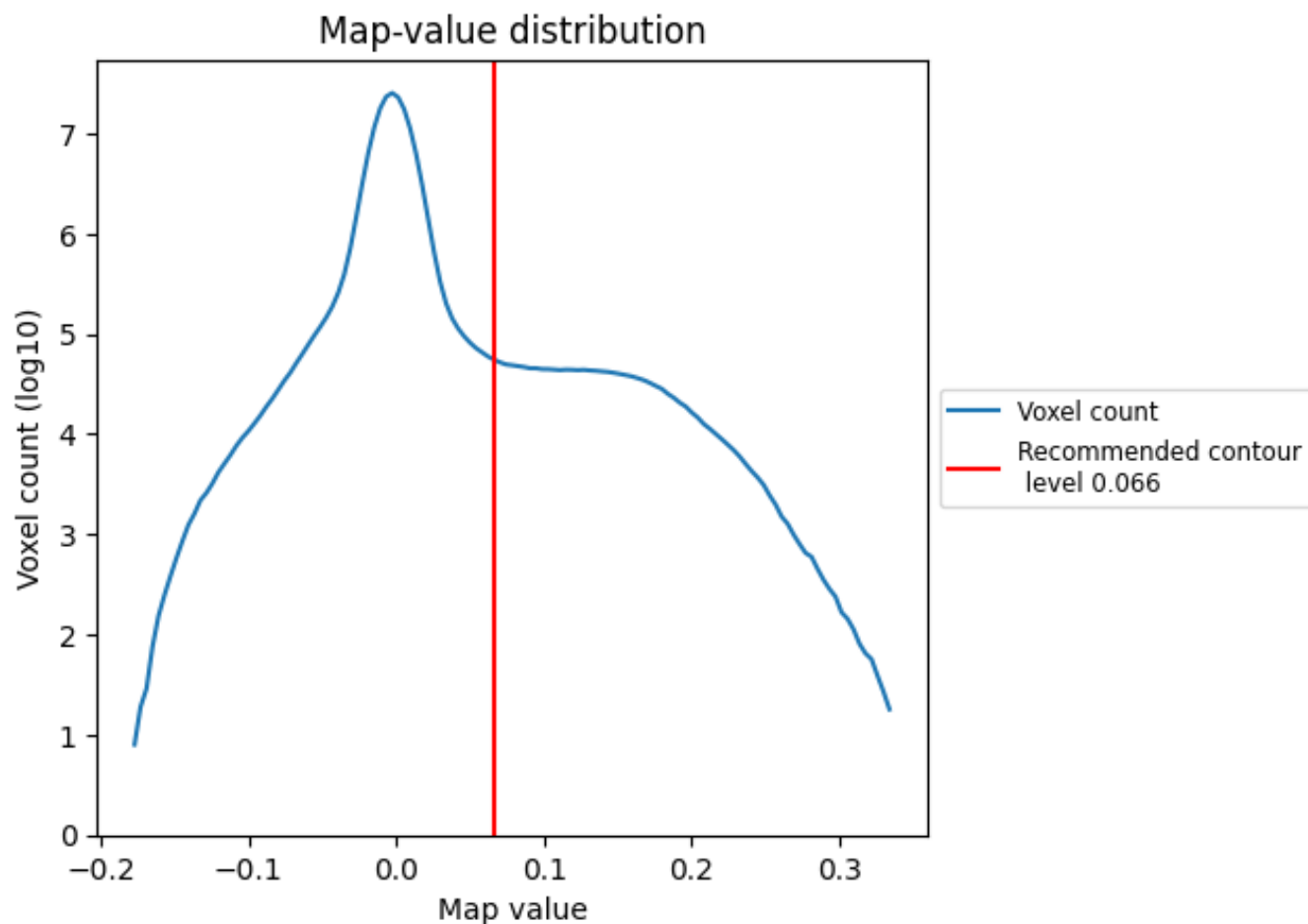
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

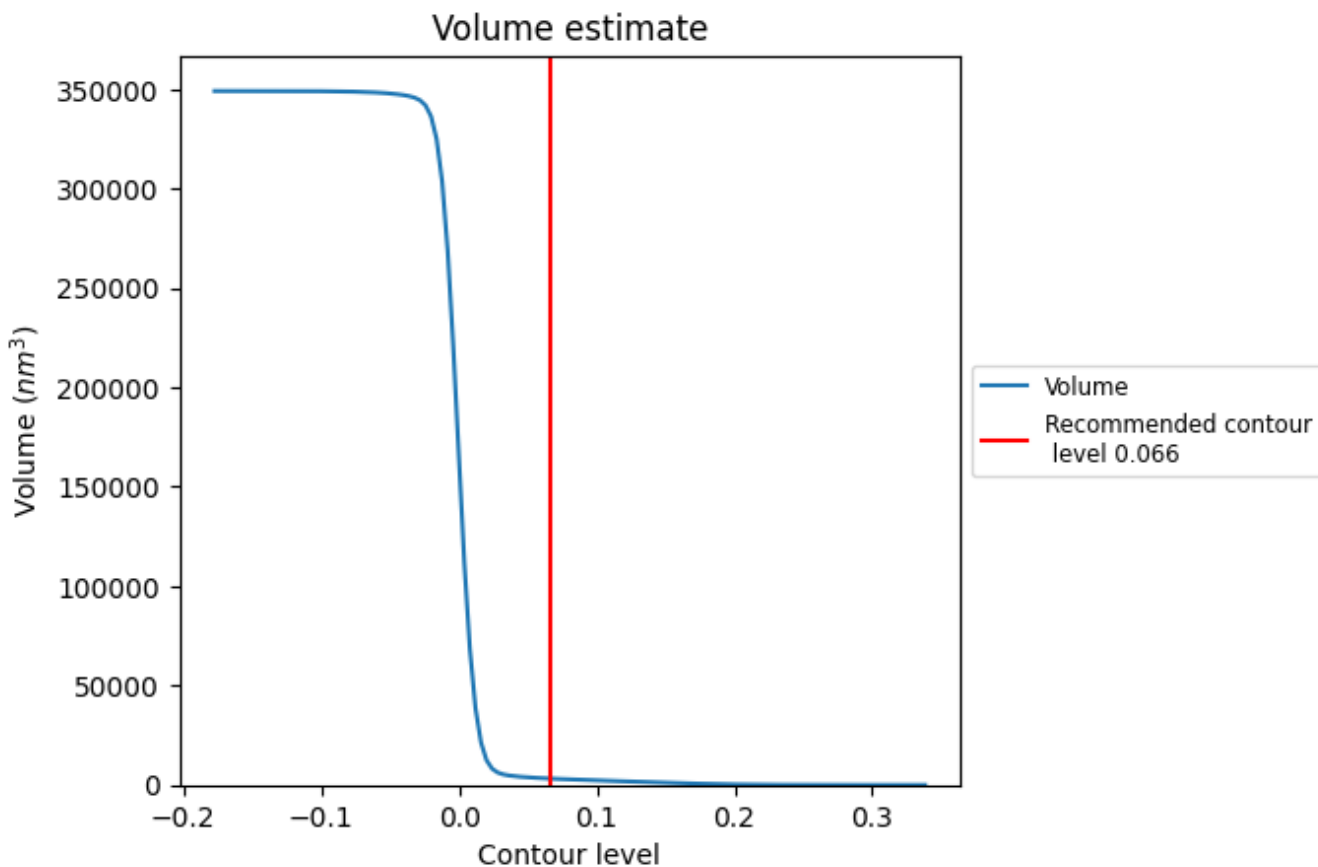
This section contains the results of statistical analysis of the map.

### 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.

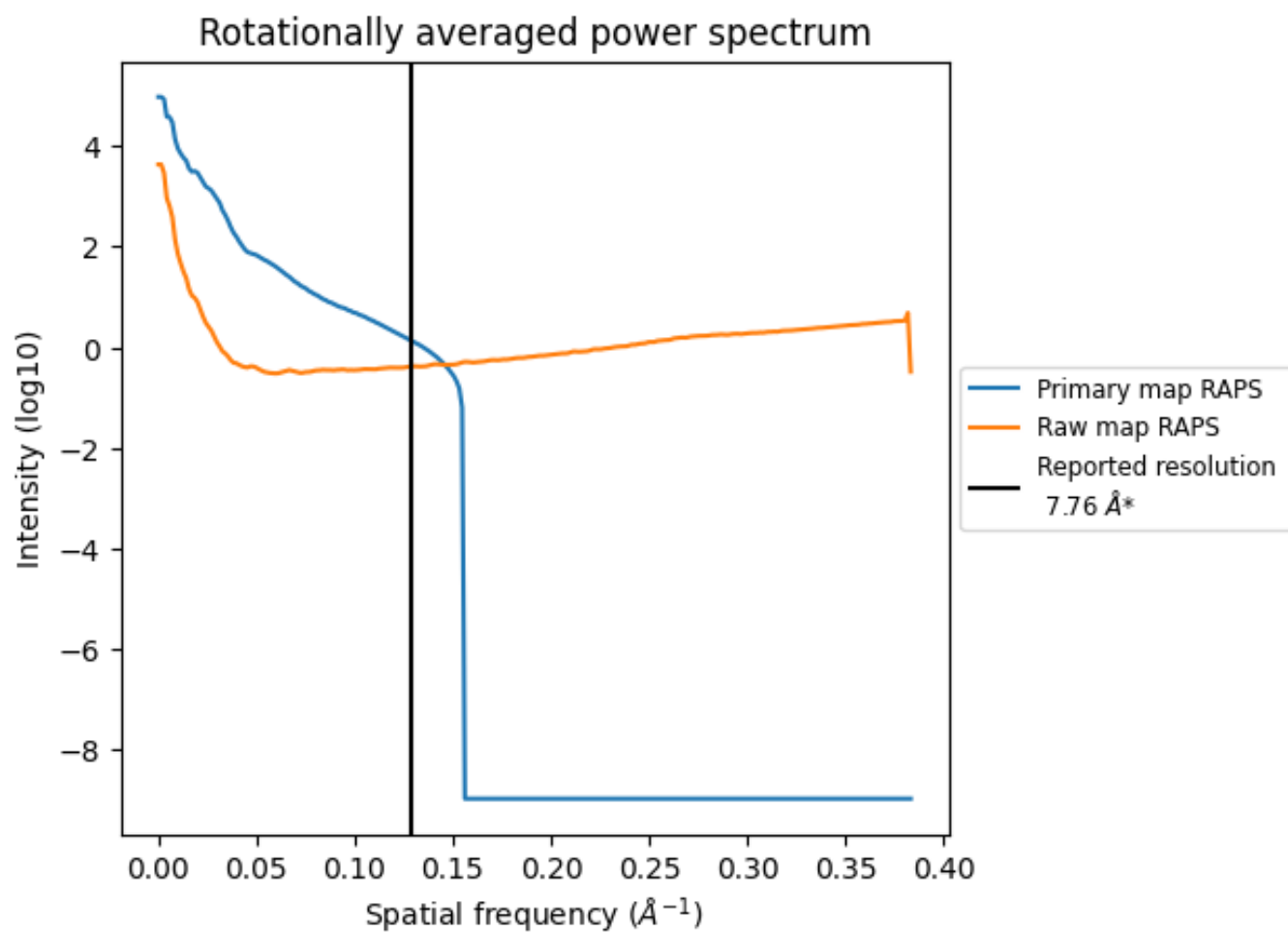
## 7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 3218 nm<sup>3</sup>; this corresponds to an approximate mass of 2907 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 [\(i\)](#)

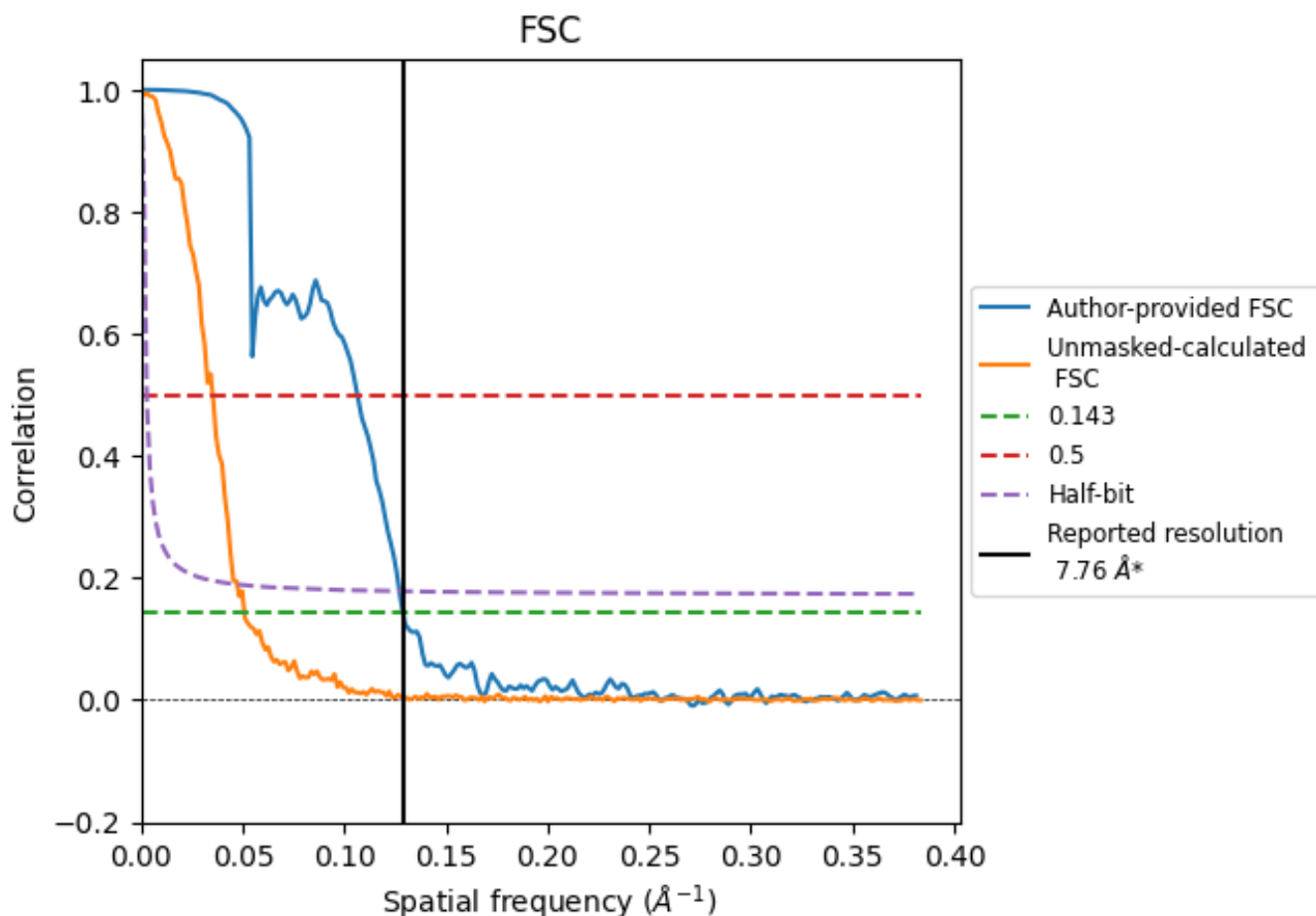


\*Reported resolution corresponds to spatial frequency of 0.129 Å<sup>-1</sup>

## 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 0.129 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

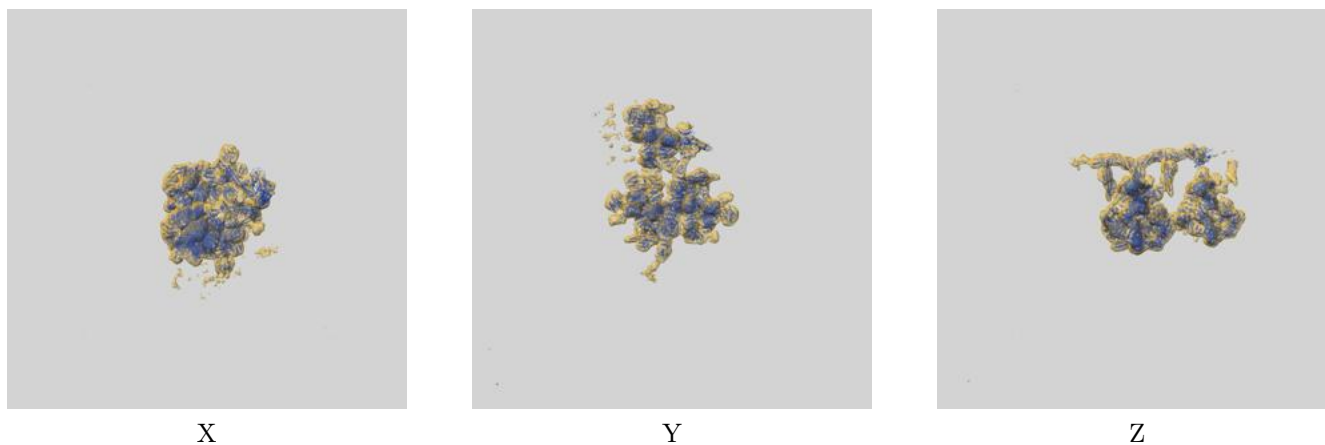
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	7.76	-	-
Author-provided FSC curve	7.76	9.40	7.87
Unmasked-calculated*	19.69	28.41	21.19

\*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 19.69 differs from the reported value 7.76 by more than 10 %

## 9 Map-model fit [i](#)

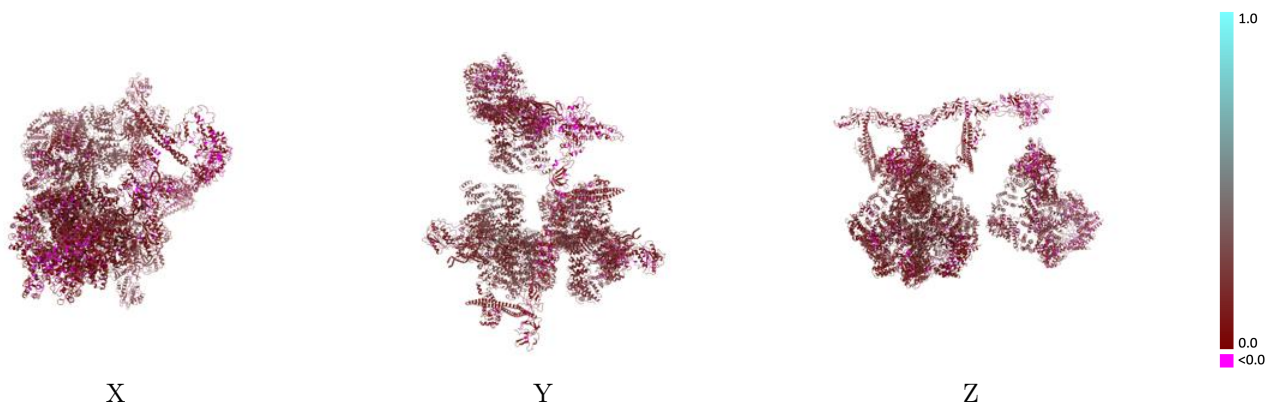
This section contains information regarding the fit between EMDB map EMD-16145 and PDB model 8BOT. Per-residue inclusion information can be found in section [3](#) on page [7](#).

### 9.1 Map-model overlay [i](#)



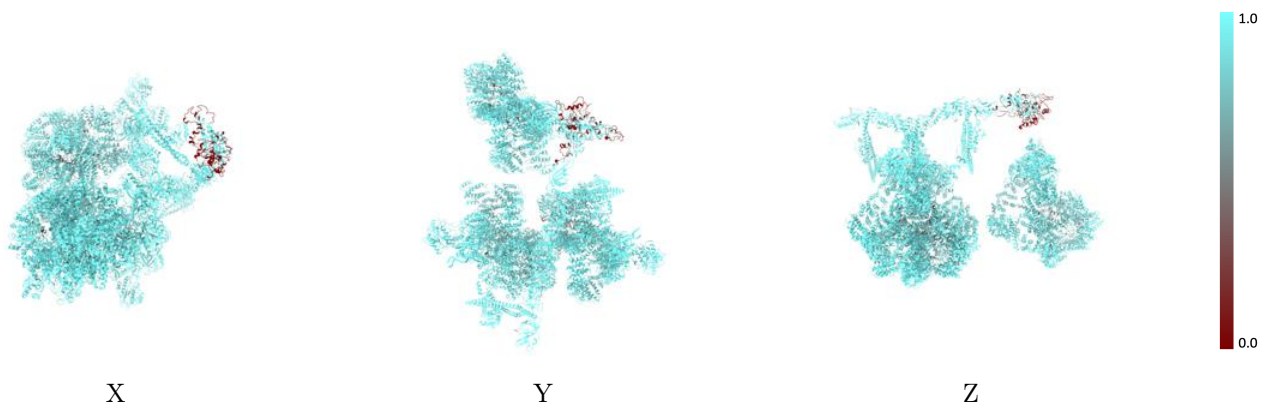
The images above show the 3D surface view of the map at the recommended contour level 0.066 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



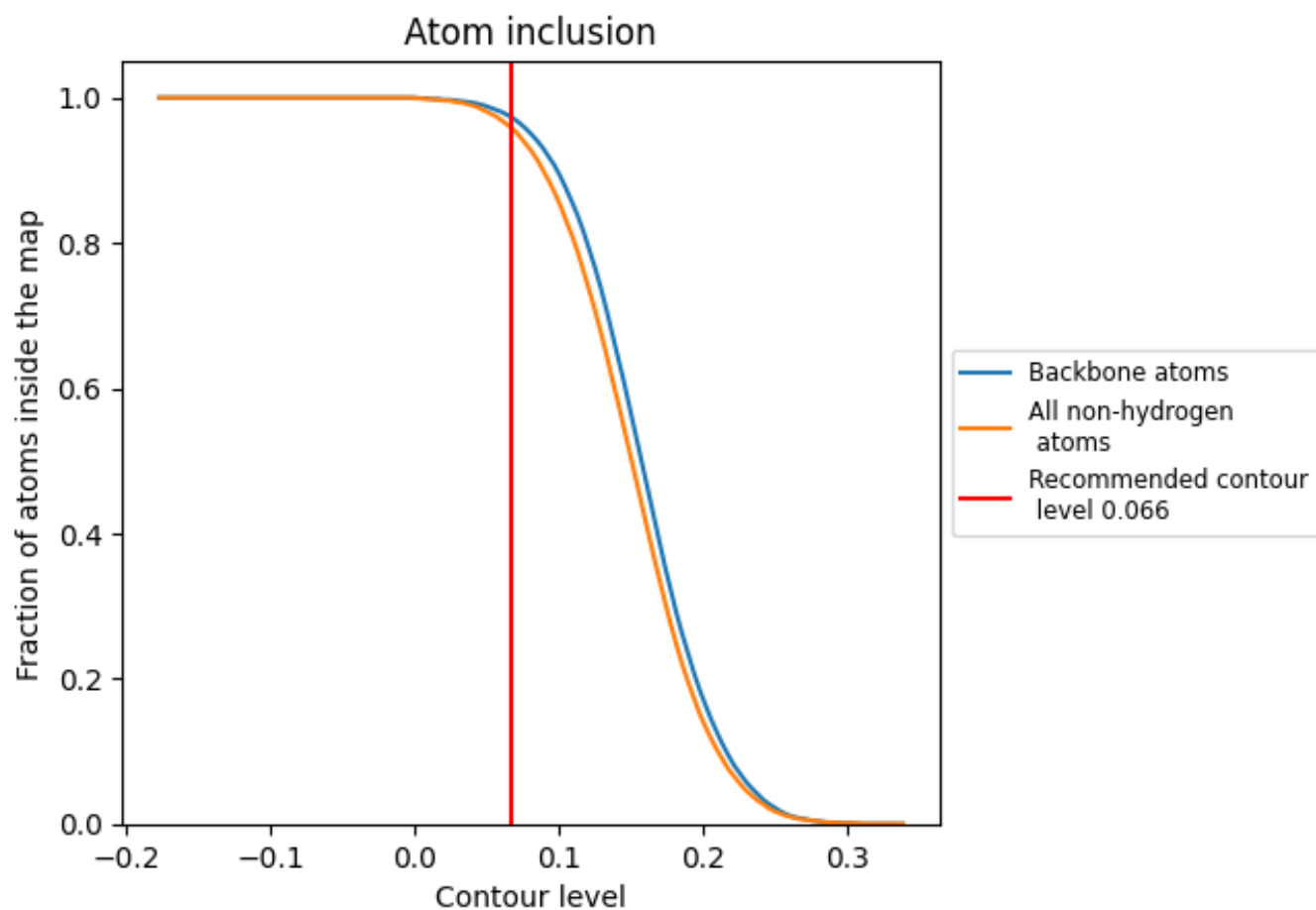
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.066).





















































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 97% of all backbone atoms, 96% 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 (0.066) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9600	 0.1280
A	 0.9590	 0.1310
B	 0.9880	 0.1210
C	 0.9700	 0.1010
D	 0.9960	 0.1890
E	 0.9840	 0.1540
F	 0.9720	 0.1730
G	 0.9840	 0.1610
H	 0.9910	 0.1450
I	 0.9950	 0.1790
J	 1.0000	 0.1930
K	 0.9820	 0.1000
L	 0.9670	 0.1010
M	 0.9960	 0.1020
N	 0.9790	 0.1060
O	 0.9830	 0.1110
P	 1.0000	 0.1230
Q	 0.9930	 0.0770
R	 0.9700	 0.0840
S	 0.9730	 0.1100
T	 0.9880	 0.0830
U	 0.9900	 0.0810
V	 1.0000	 0.1270
W	 0.9770	 0.1250
X	 0.3270	 0.0590
Y	 0.5760	 0.0680

