



## Full wwPDB EM Validation Report ⓘ

Nov 12, 2024 – 06:48 AM EST

PDB ID : 9E1A  
EMDB ID : EMD-47387  
Title : Structure of RyR1 in the primed state in the presence of dyphylline  
Authors : Miotto, M.C.; Marks, A.R.  
Deposited on : 2024-10-21  
Resolution : 3.35 Å (reported)  
Based on initial model : 7TZC

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.dev113  
Mogul : 2022.3.0, CSD as543be (2022)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

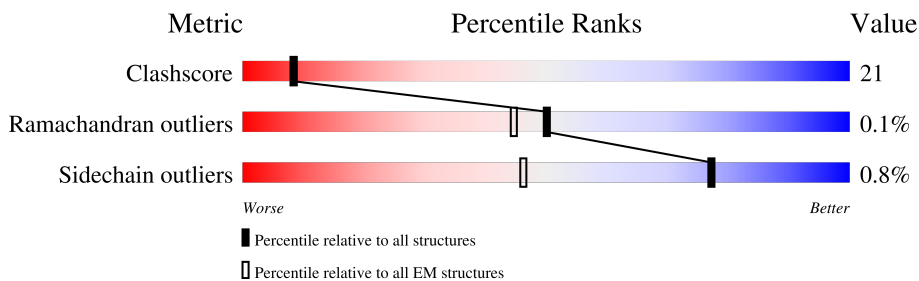
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.35 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	A	5037	35% 52% 35% 13%
1	B	5037	35% 52% 35% 13%
1	C	5037	35% 52% 35% 13%
1	D	5037	35% 52% 35% 13%
2	E	108	66% 64% 32%
2	F	108	65% 66% 31%
2	G	108	64% 65% 31%
2	H	108	64% 65% 31%

## 2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 144128 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 Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	4404	Total 35150	C 22365	N 6063	O 6485	S 237	9	0
1	B	4404	Total 35150	C 22365	N 6063	O 6485	S 237	9	0
1	D	4404	Total 35150	C 22365	N 6063	O 6485	S 237	9	0
1	C	4404	Total 35150	C 22365	N 6063	O 6485	S 237	9	0

- Molecule 2 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	E	107	Total 831	C 527	N 146	O 154	S 4	0	0
2	H	107	Total 831	C 527	N 146	O 154	S 4	0	0
2	G	107	Total 831	C 527	N 146	O 154	S 4	0	0
2	F	107	Total 831	C 527	N 146	O 154	S 4	0	0

- Molecule 3 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula:  $C_{10}H_{16}N_5O_{13}P_3$ ).



Mol	Chain	Residues	Atoms					AltConf
3	A	1	Total	C	N	O	P	0
			31	10	5	13	3	
3	B	1	Total	C	N	O	P	0
			31	10	5	13	3	
3	D	1	Total	C	N	O	P	0
			31	10	5	13	3	
3	C	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
4	A	1	Total	Ca	0
			1	1	
4	B	1	Total	Ca	0
			1	1	
4	D	1	Total	Ca	0
			1	1	
4	C	1	Total	Ca	0
			1	1	

- Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

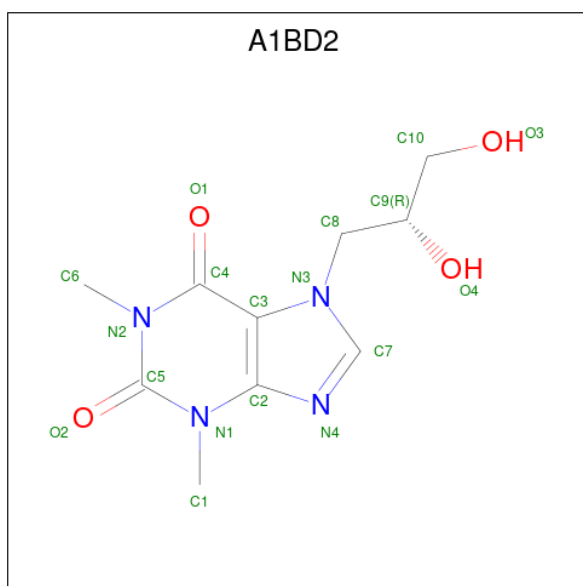
Mol	Chain	Residues	Atoms		AltConf
5	A	1	Total	Zn	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
5	B	1	Total	Zn	0
			1	1	
5	D	1	Total	Zn	0
			1	1	
5	C	1	Total	Zn	0
			1	1	

- Molecule 6 is dyphylline (three-letter code: A1BD2) (formula:  $C_{10}H_{14}N_4O_4$ ) (labeled as "Ligand of Interest" by depositor).

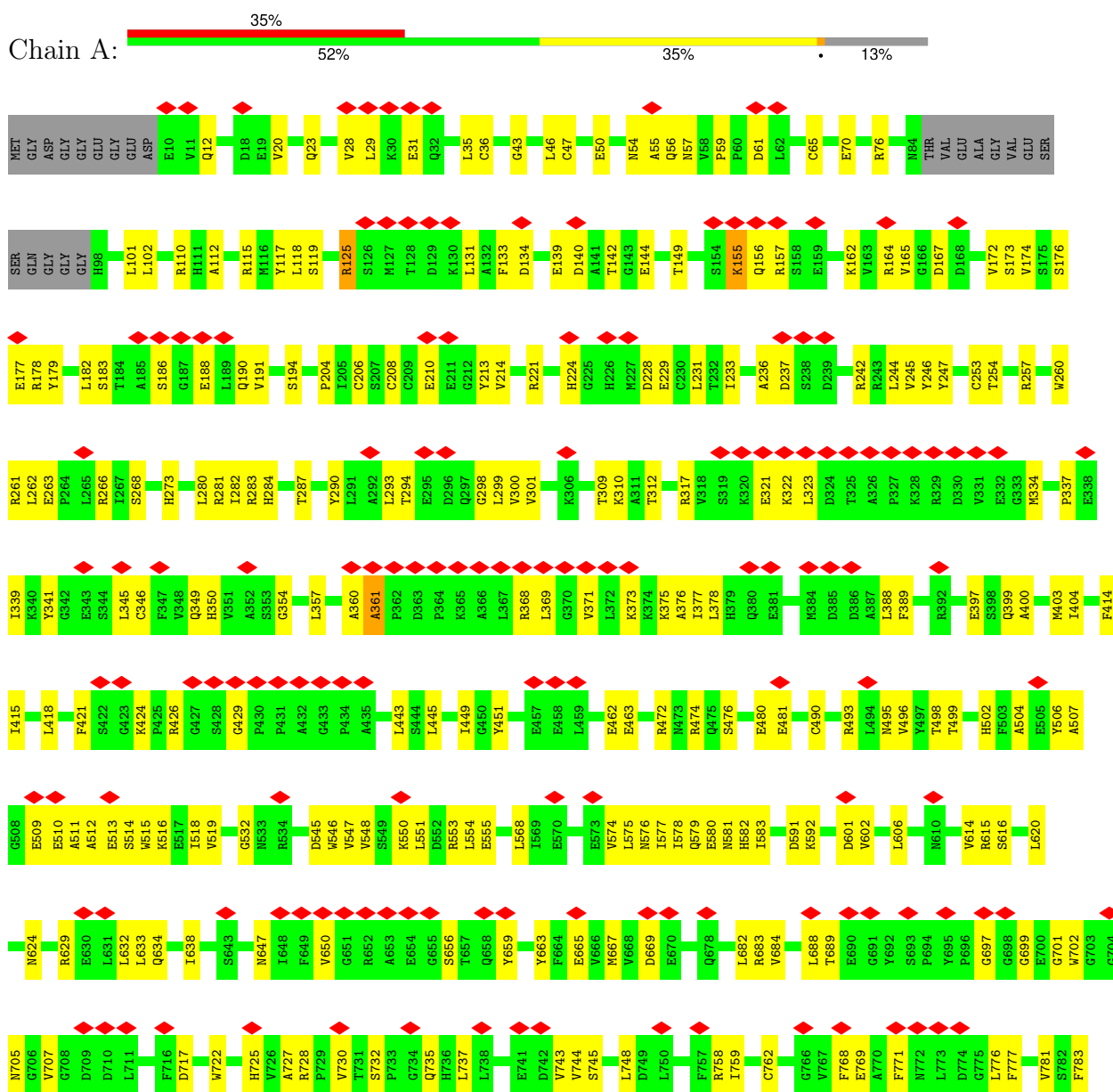


Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			18	10	4	4	
6	B	1	Total	C	N	O	0
			18	10	4	4	
6	D	1	Total	C	N	O	0
			18	10	4	4	
6	C	1	Total	C	N	O	0
			18	10	4	4	

### 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: Ryanodine receptor 1



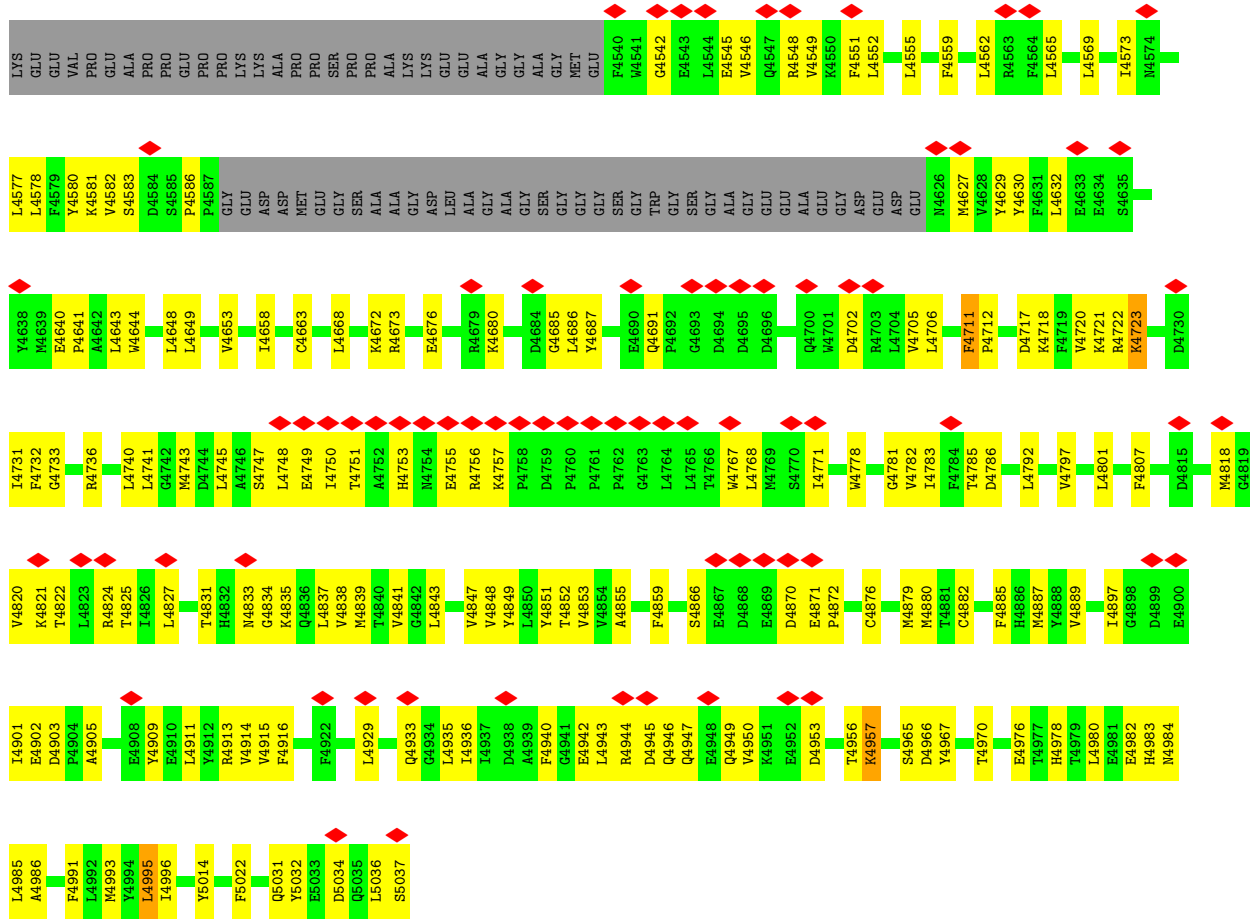
E1616	T1617	R1618	R1619	A1620	W1626	A1627	V1628	D1632	M1636	L1639	E1643	N1644	N1645	R1646	D1649	D1658	R1668	R1671	L1676	N1679	R1680	L1694	L1698	E1699	D1700	A1701	H1702	L1703	P1704	G1705	L1707	G1710	Y1711	D1713	L1714	L1715	I1716	L1720	E1721	R1727																			
M1462	N1463	F1464	D1465	L1466	S1467	K1468	V1469	R1470	V1474	T1475	M1476	G1477	D1478	E1479	Q1480	G1481	M1482	V1483	H1484	S1485	L1486	L1487	K1488	C1489	N1490	N1491	C1492	Y1493	M1494	V1495	W1496	G1497	G1498	D1499	F1500	V1501	L1502	P1503	G1504	Q1505	Q1506	G1507	R1508	I1509	S1510	H1511	T1512	L1513	P1514	P1515	I1516	A1523	A1531	G1532	K1533	K1534			
ALA	LYS	LYS	ALA	ALA	MET	MET	THR	GLM	TRP	PRO	PRO	ALA	THR	PRO	ALA	GLY	GLY	PRO	ARG	LEU	PRO	ALA	D1419	N1420	N1421	D1422	D1423	P1424	E1425	I1426	I1427	L1428	N1429	T1430	T1431	T1432	Y1433	Y1434	Y1435	S1436	V1439	F1440	A1441	P1445	S1446	C1447	V1448	V1453	T1454	P1455	D1456	D1461							
GLU	ASN	LEU	ARG	ALA	SER	ALA	GLY	GLY	TRP	GLY	GLY	GLU	GLY	GLY	LYS	GLU	GLY	THR	THR	PRO	GLY	GLY	THR	GLY	THR	PRO	THR	VAL	GLU	ALA	GLN	PRO	VAL	ARG	ALA	GLU	ASN	GLY	GLY	GLM	PRO	PRO	ALA	GLU	ASP	GLY	ALA	GLU	ASP	GLY	ALA	GLU	ASP	GLY	THR				
P1190	V1191	P1196	Q1197	G1198	V1199	L1204	G1205	Q1206	Q1280	N1281	D1207	N1125	V1208	S1209	S1210	L1211	R1212	W1132	H1133	L1134	G1135	S1136	R1141	G1146	D1147	V1148	V1149	I1153	D1154	L1155	T1156	E1157	N1158	I1161	F1162	L1169	M1170	S1171	D1172	S1173	L1174	S1175	E1176	T1177	A1178	F1179	R1180	I1181	I1182	E1183	L1184	G1185	D1186	G1187	L1189				
P1190	V1191	P1196	Q1197	G1198	V1199	L1204	G1205	Q1206	Q1280	N1281	D1207	N1125	V1208	S1209	S1210	L1211	R1212	W1132	H1133	L1134	G1135	S1136	R1141	G1146	D1147	V1148	V1149	I1153	D1154	L1155	T1156	E1157	N1158	I1161	F1162	L1169	M1170	S1171	D1172	S1173	L1174	S1175	E1176	T1177	A1178	F1179	R1180	I1181	I1182	E1183	L1184	G1185	D1186	G1187	L1189				
C1040	Q1041	A1042	V1043	R1044	T1045	L1046	L1047	Y1048	Y1049	G1050	Y1051	N1052	I1053	E1054	P1055	D1056	D1057	Q1058	E1059	P1060	Q1062	V1063	E1064	N1065	Q1066	S1067	I1068	W1069	V1070	R1071	V1072	R1073	I1074	K1079	Q1084	R1087	W1088	E1093	E1099	R1101	V1102	G1103	W1104	A1105	R1106	P1107	E1108	L1109	R1110	P1111	D1112	V1113							
C1040	Q1041	A1042	V1043	R1044	T1045	L1046	L1047	Y1048	Y1049	G1050	Y1051	N1052	I1053	E1054	P1055	D1056	D1057	Q1058	E1059	P1060	Q1062	V1063	E1064	N1065	Q1066	S1067	I1068	W1069	V1070	R1071	V1072	R1073	I1074	K1079	Q1084	R1087	W1088	E1093	E1099	R1101	V1102	G1103	W1104	A1105	R1106	P1107	E1108	L1109	R1110	P1111	D1112	V1113							
E1917	R1918	N1919	Y1920	N1921	L1922	Q1923	M1924	G1925	G1926	E1927	T1928	L1929	K1930	N1931	L1932	L1933	A1934	L1935	G1936	C1937	H1938	V1939	G1940	M1941	A1942	D1943	E1944	K1945	A1946	E1947	D1948	N1949	K1951	K1952	T1953	K1954	L1955	P1956	K1957	T1958	Y1959	M1960	M1961	S1962	N1963	G1964	Y1965	K1966	P1967	A1968	P1969	L1970	D1971	L1972	H1973	H1974	E1975	R1976	
E1917	R1918	N1919	Y1920	N1921	L1922	Q1923	M1924	G1925	G1926	E1927	T1928	L1929	K1930	N1931	L1932	L1933	A1934	L1935	G1936	C1937	H1938	V1939	G1940	M1941	A1942	D1943	E1944	K1945	A1946	E1947	D1948	N1949	K1951	K1952	T1953	K1954	L1955	P1956	K1957	T1958	Y1959	M1960	M1961	S1962	N1963	G1964	Y1965	K1966	P1967	A1968	P1969	L1970	D1971	L1972	H1973	H1974	E1975	R1976	
D1857	T1858	V1859	Q1860	V1861	L1862	L1863	P1864	P1865	H1866	L1867	E1868	R1869	I1870	R1871	E1872	K1873	L1874	A1875	E1876	N1877	I1878	H1879	E1880	L1881	V1882	A1883	L1884	T1885	R1886	I1887	E1888	Q1889	G1890	W1891	T1892	Y1893	G1894	P1895	V1896	R1897	S1898	D1899	N1900	K1901	R1902	L1903	H1904	P1905	C1906	L1907	V1908	N1909	F1910	H1911	S1912	L1913	P1914	E1915	P1916
D1857	T1858	V1859	Q1860	V1861	L1862	L1863	P1864	P1865	H1866	L1867	E1868	R1869	I1870	R1871	E1872	K1873	L1874	A1875	E1876	N1877	I1878	H1879	E1880	L1881	V1882	A1883	L1884	T1885	R1886	I1887	E1888	Q1889	G1890	W1891	T1892	Y1893	G1894	P1895	V1896	R1897	S1898	D1899	N1900	K1901	R1902	L1903	H1904	P1905	C1906	L1907	V1908	N1909	F1910	H1911	S1912	L1913	P1914	E1915	P1916
G1786	K1787	V1788	W1789	R1790	F1791	L1792	L1793	R1796	E1799	F1800	K1801	F1802	P1806	G1807	C1811	E1813	A1814	V1815	L1816	P1817	R1818	E1819	R1820	L1821	R1822	L1823	K1827	E1828	Y1829	R1830	R1831	R1835	L1839	V1840	G1841	P1842	S1843	R1844	C1845	L1846	S1847	H1848	T1849	D1850	F1851	V1852	C1854	P1855	V1856										
G1786	K1787	V1788	W1789	R1790	F1791	L1792	L1793	R1796	E1799	F1800	K1801	F1802	P1806	G1807	C1811	E1813	A1814	V1815	L1816	P1817	R1818	E1819	R1820	L1821	R1822	L1823	K1827	E1828	Y1829	R1830	R1831	R1835	L1839	V1840	G1841	P1842	S1843	R1844	C1845	L1846	S1847	H1848	T1849	D1850	F1851	V1852	C1854	P1855	V1856										



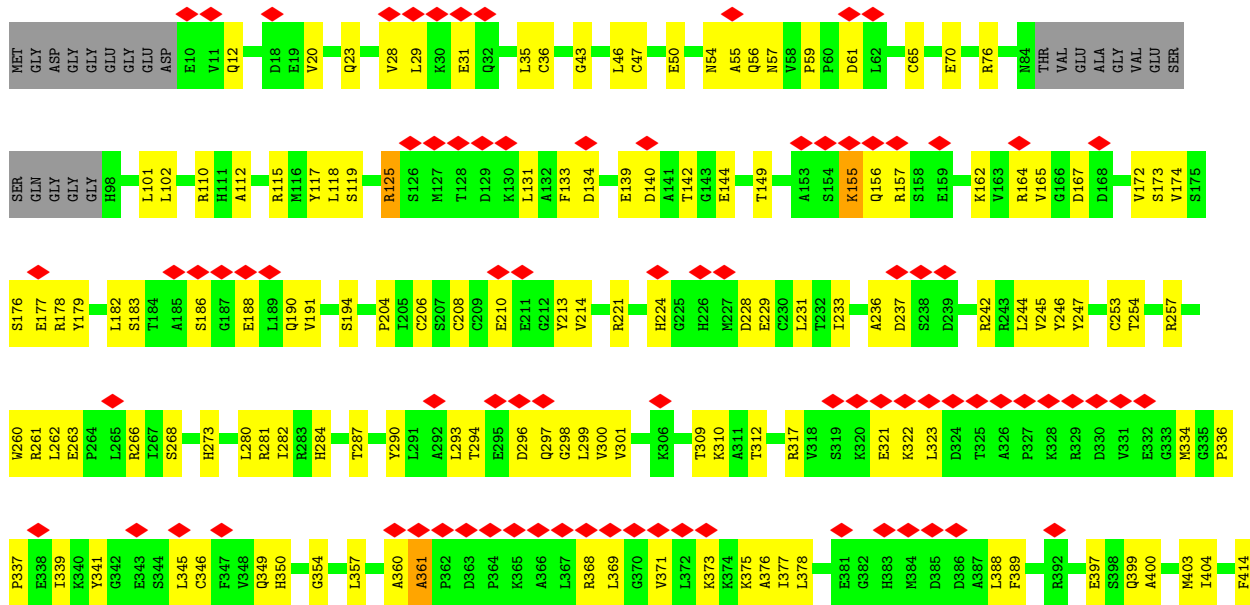


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T2866	L2867	S2868	R2869	E2870	L2871	Q2872	A2873	M2874	A2875	E2876	Q2877	L2878	A2879	E2880	N2881	Y2882	H2883	M2884	T2885	W2886	R2887	R2888	K2889	K2890	K2891	Q2892	E2893	L2894	F2895	F2897	G2898	K2899	G2900	T2901	H2902	P2903	GLN	THR	TYR	ASP	PRO	ARG	GLU	GLY	D2909	T2910	L2911	R2912	A2913	K2914	E2915	R2916	A2917	D2918	R2919	R2920	E2921	K2922	A2923	Q2924	E2925
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Y3166	R3167	T3168	L3169	I3172	Y3173	S3174	L3175	G3176	T3177	T3178	K3179	N3180	T3181	Y3182	V3183	E3184	K3185	L3186	R3187	P3188	A3189	L3190	G3191	E3192	C3193	L3194	A3195	R3196	L3197	A3198	A3199	A3200	M3201	P3202	V3203	A3204	F3205	L3206	E3207	P3208	Q3209	L3210	N3211	E3212	Y3213	N3214	A3215	C3216	S3217	V3218	D3220	T3221	S3222	S3223	P3224	R3225	E3226				
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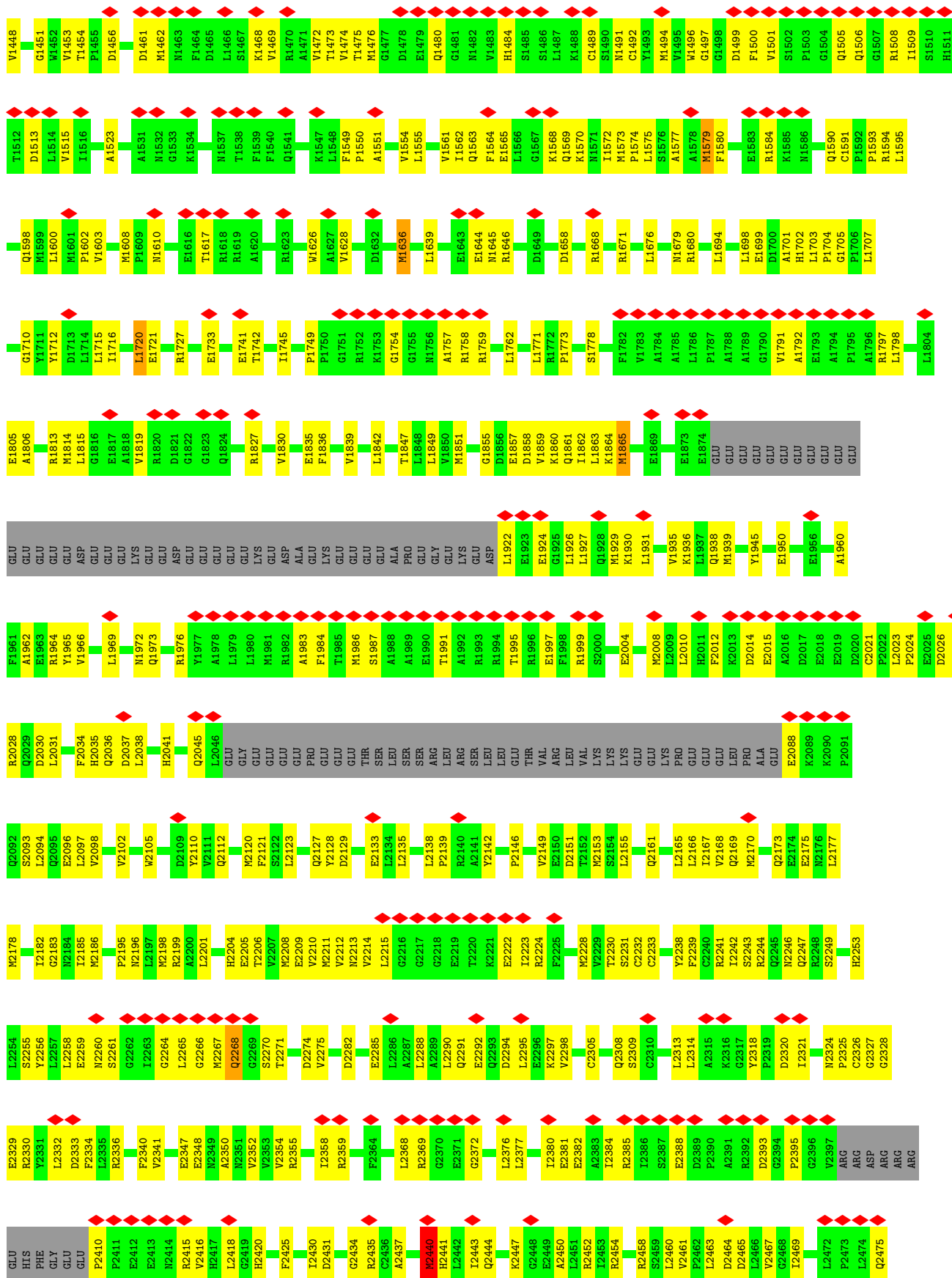




• Molecule 1: Ryanodine receptor 1

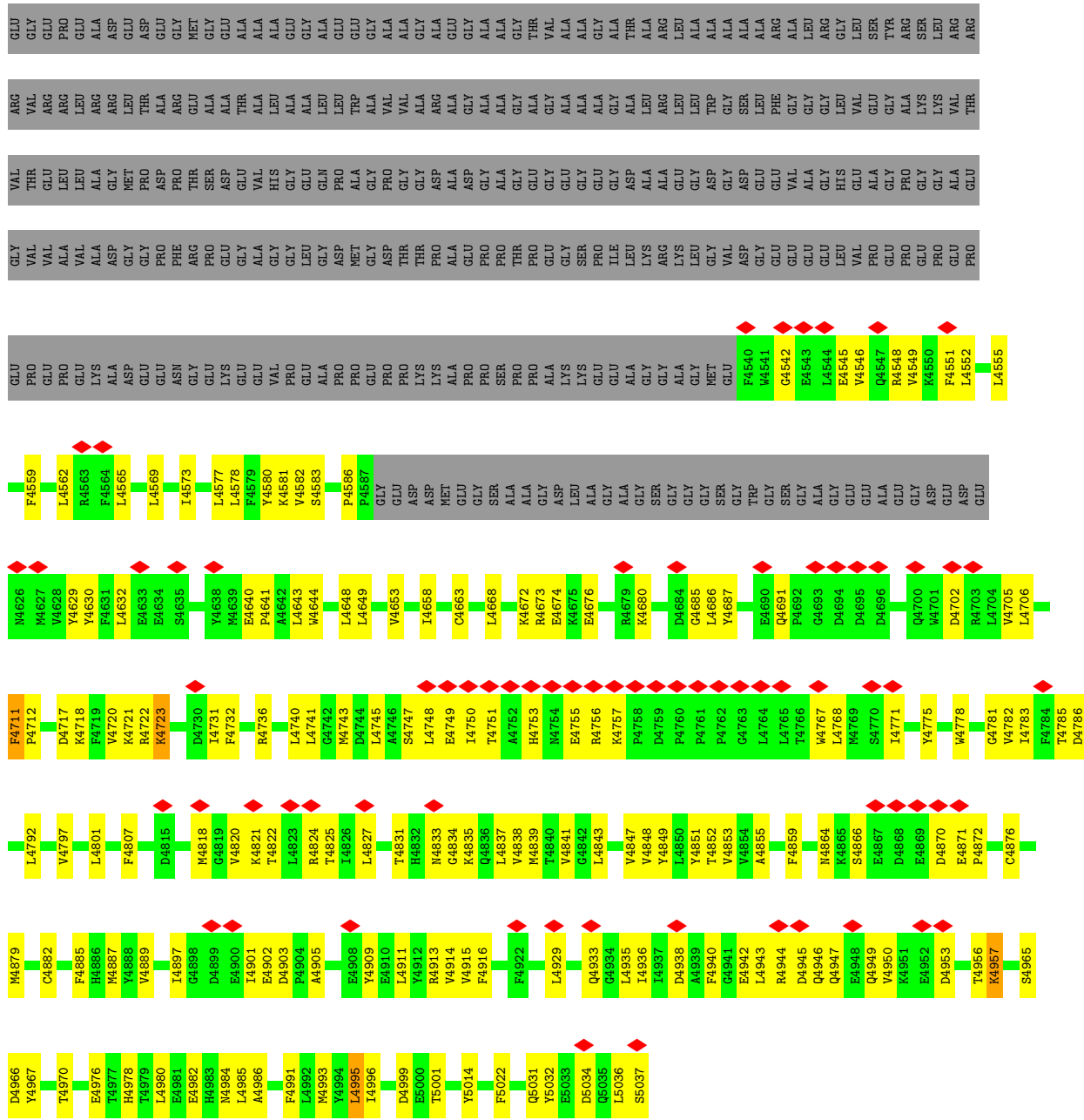




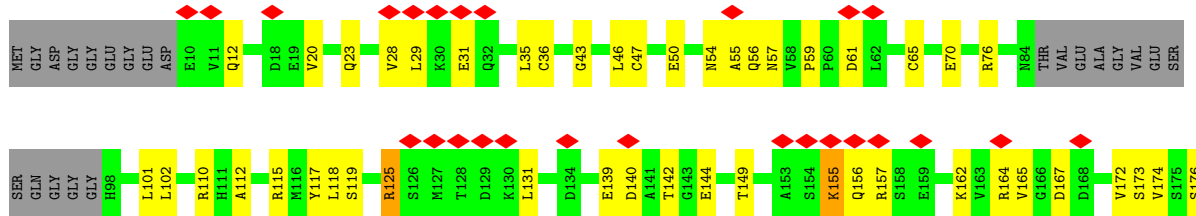


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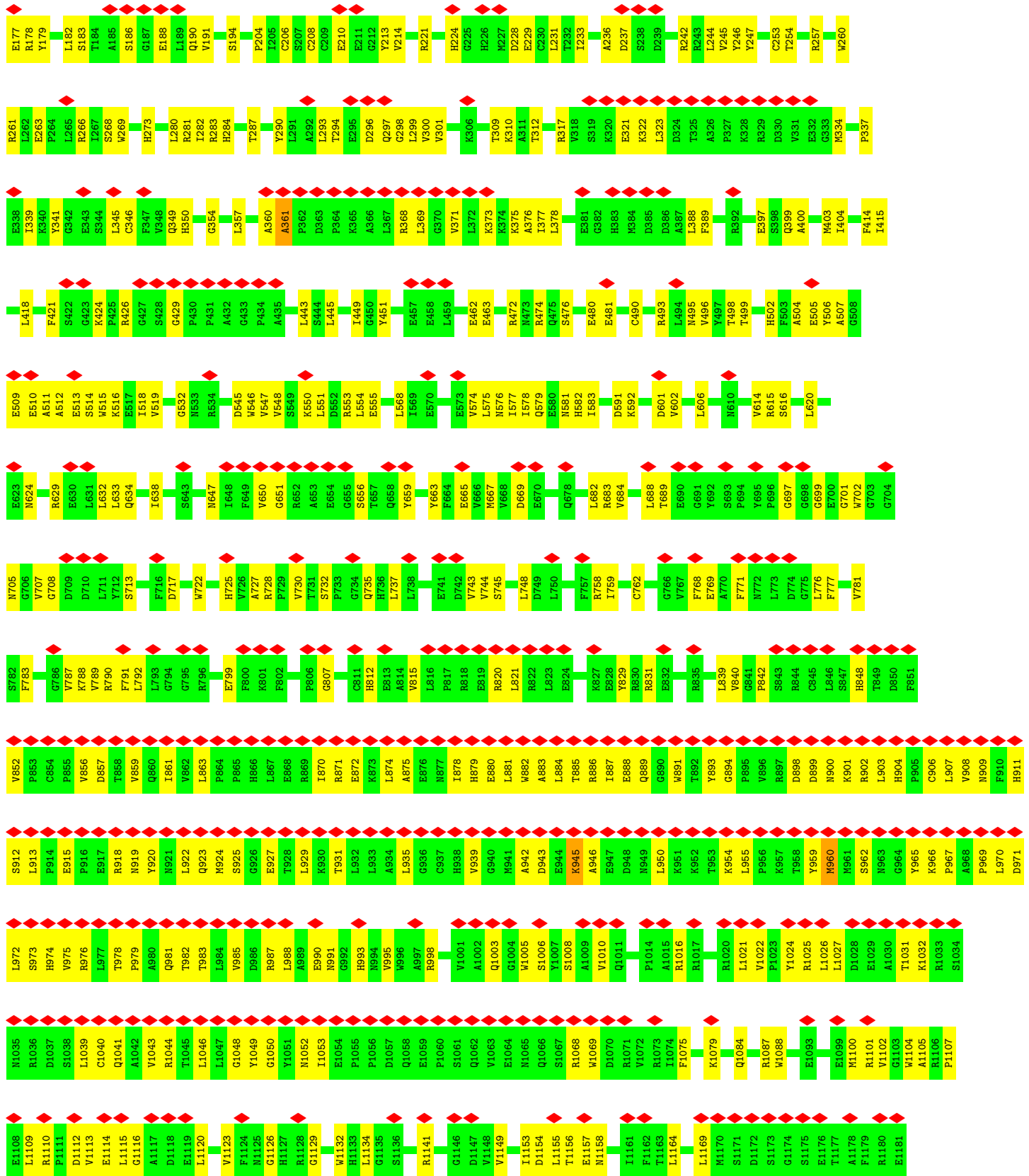
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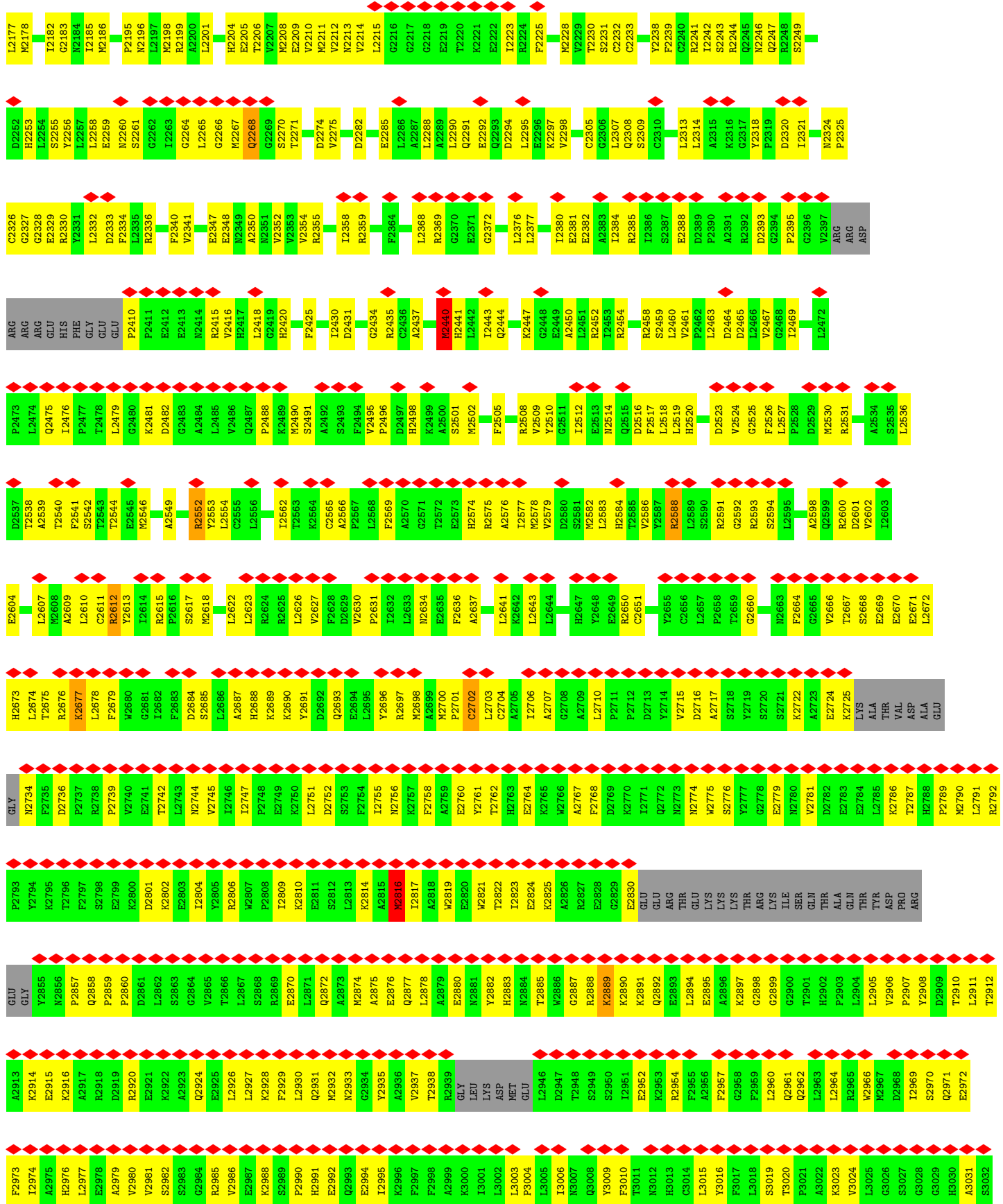
• Molecule 1: Ryanodine receptor 1





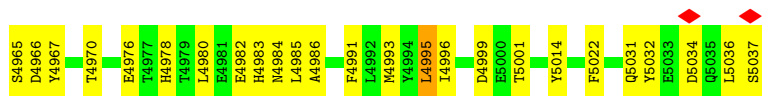




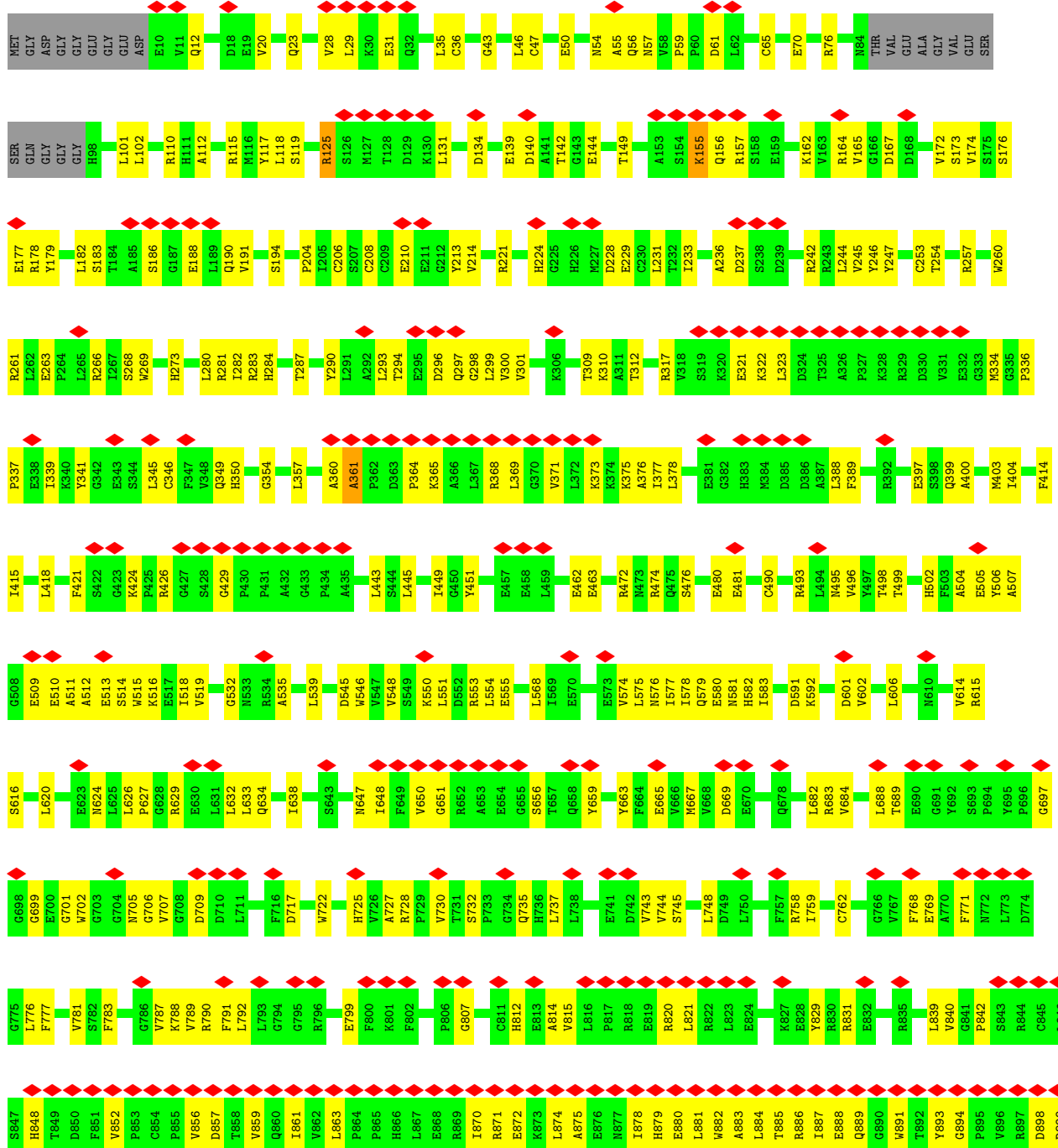


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PRO	GLU	ALA	ARG	ASP	GLY	PRO	THR	GLU	ALA	ALA	GLY	GLU	GLU	GLU	GLU	ALA	GLY	ALA	ALA	GLY	GLY	GLY	THR	ALA	ALA	ALA	ARG	GLY	ALA	ALA	ALA	ARG	VAL	GLY	LEU	LEU	TYR	ALA	ARG	LYS	LEU	ARG	ARG	VAL	ARG						
ARG	LEU	LEU	ALA	ARG	GLY	ASP	GLY	THR	GLU	THR	ALA	ALA	LEU	ALA	GLY	GLN	LEU	LEU	LEU	TRP	ALA	ALA	GLY	GLY	GLY	ALA	ALA	ALA	ARG	LEU	LEU	LEU	LEU	VAL	HIS	GLY	GLY	GLY	GLY	PRO	ALA	ARG	LYS	THR	VAL	VAL					
LEU	LEU	ALA	ASP	GLY	MET	PRO	THR	GLU	GLU	VAL	ALA	HIS	GLY	GLY	GLU	GLN	LEU	LEU	LEU	TRP	ALA	ALA	GLY	GLY	GLY	ALA	ALA	ALA	ARG	LEU	LEU	LEU	LEU	VAL	HIS	GLY	GLY	GLY	GLY	PRO	ALA	ARG	LYS	THR	VAL	VAL					
ALA	VAL	LEU	ASP	GLY	PHE	ASN	GLY	THR	PRO	GLY	GLY	VAL	PRO	PRO	GLU	ALA	ASP	PRO	PRO	PRO	THR	THR	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY				
PRO	GLU	LYS	ALA	ASP	GLY	GLU	GLY	GLY	LYS	GLU	VAL	PRO	PRO	PRO	GLU	GLY	LYS	ALA	PRO	PRO	PRO	PRO	ALA	LYS	LYS	GLU	GLU	ALA	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY				
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Y4628	Y4629	Y4630	F4631	L4632	E4633	E4634	S4635	Y4638	M4639	E4640	P4641	A4642	L4643	W4644	L4648	L4649	V4653	I4658	C4663	L4668	K4672	R4673	E4674	K4675	E4676	R4679	K4680	C4684	G4685	L4686	Y4687	E4690	Q4691	P4692	Q4693	D4694	D4695	D4696	Q4700	W4701	D4702	R4703	L4704	L4705	L4706	F4711	P4712				
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• Molecule 1: Ryanodine receptor 1



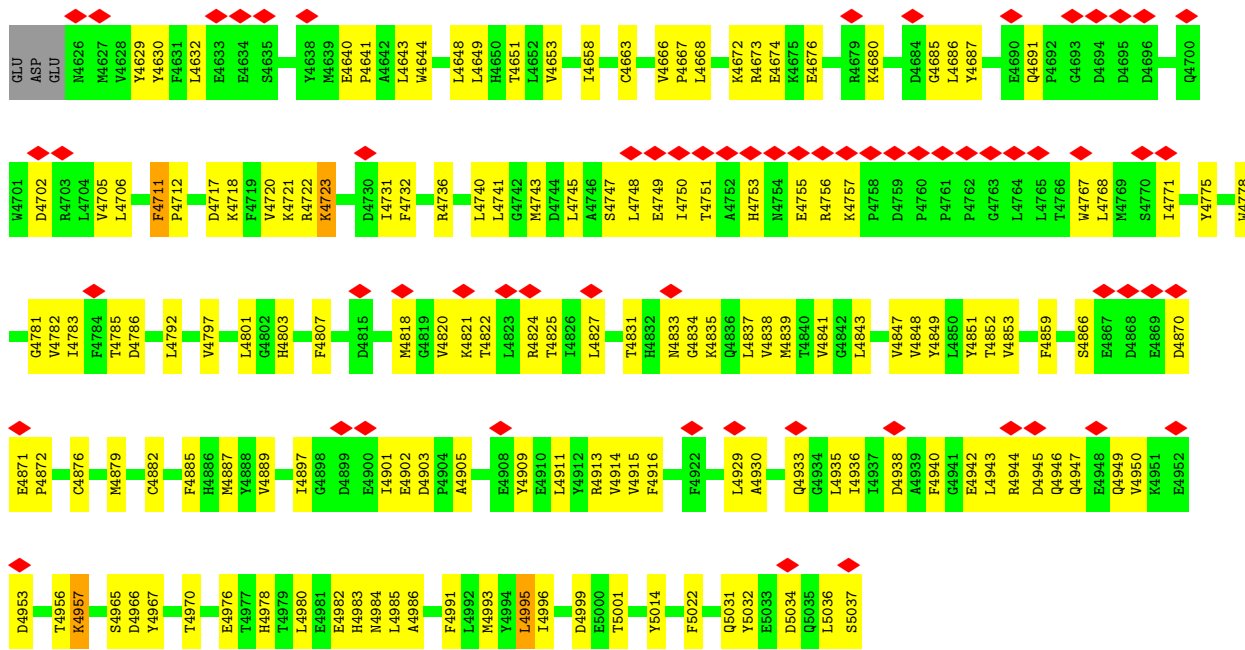
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F910	L970	S1034	E1108	I1182	ALA	ALA	LYS	H1511	Q1598	G1710	L1804
H911	D971	R1035	L1109	E1183	GLU	GLU	ARG	D1512	M1599	Y1711	R1813
S912	L972	N1036	R1110	I1184	PRO	PRO	PHE	D1513	L1600	Y1712	M1814
L913	S973	D1037	P1111	G1185	ASP	ASP	GLY	L1514	M1601	D1713	G1816
P914	H974	S1038	D1112	G1186	PRO	PRO	PHE	V1515	P1602	L1714	E1817
E915	R975	L1039	W1113	G1187	ASP	ASP	PHE	I1516	V1603	L1715	A1818
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E917	L977	Q1041	L1115	L1189	ASN	ASN	LYS	A1524	P1609	L1720	R1820
R918	T978	A1042	G1116	F1190	LEU	LEU	LYS	A1531	M1610	E1721	D1821
N919	P979	V1043	A1117	V1191	ARG	ARG	ALA	M1462	N1532	R1727	G1823
Y920	A980	R1044	D1118	G1192	SER	SER	MET	N1463	F1464	E1733	R1827
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C937	R998	S1061	D1147	I1221	GLY	GLY	D1419	M1482	L1676	F1782	E1869
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LYS	L1972	H2035	L2097	L2185	E2259	F2334	GLU	L2479	T2943	C2611	L2678	R2738
GLU	Q1973	D2037	V2102	M2186	N2260	R2335	GLU	P2480	E2545	R2612	L2679	R2739
GLU	R1976	L2038	W2105	P2195	S2261	L2336	P2410	G2480	M2546	V2613	V2679	V2740
GLU	Y1977	H2041	W2106	N2196	G2262	F2340	E2412	K2481	A2547	L2614	G2680	E2741
GLU	A1978	Q2045	D2109	M2198	I2263	V2341	F2413	D2482	L2548	R2615	G2681	T2742
GLU	L1979	L2046	Y2110	R2199	G2264	E3347	R2414	G2483	A2549	P2616	I2682	L2743
LYS	L1980	GLU	Q2112	A2200	G2266	E3348	R2415	L2485	L2554	S2617	F2683	L2744
ASP	M1981	GLY	L2116	L2201	M2267	N2349	V2416	V2486	L2554	R2618	S2685	V2745
ALA	R1982	GLU	L2116	H2204	Q2268	A2350	H2417	Q2487	C2555	L2622	L2686	I2746
ALA	A1983	GLU	M2120	E2205	Q2269	N2351	G2419	P2488	L2556	L2623	H2688	I2747
GLU	F1984	GLU	F2121	T2206	S2270	V2352	H2420	K2489	I2562	R2624	H2688	P2748
GLU	T1985	PRO	S2122	V2307	T2271	V2353	F2425	M2490	T2563	R2625	K2689	E2749
GLU	M1986	GLU	L2123	M2208	D2274	V2354	I2430	A2491	G2564	L2626	K2690	K2750
PRO	S1987	GLU	L2123	E2209	V2275	R2355	D2431	S2492	C2565	V2627	D2692	D2752
GLY	A1988	THR	Q2127	M2211	D2282	I2358	G2434	F2495	A2566	F2628	Q2693	S2753
GLY	E1989	SER	Y2128	V2212	D2282	R2359	R2435	V2496	P2567	V2630	E2694	I2754
LYS	E1990	SER	D2129	M2213	E2285	R2364	R2436	P2496	F2568	P2631	L2695	I2755
GLU	T1991	SER	E2133	L2215	L2286	L2368	A2437	D2497	A2570	L2632	L2696	I2756
ASP	A1992	ARG	L2135	G2216	L2288	R2369	L2440	H2498	G2571	L2633	M2698	I2757
L1922	E1923	ARG	L2135	G2217	A2289	R2370	R2441	K2499	T2572	N2634	A2699	A2758
E1924	G1925	SER	L2138	G2218	Q2291	E3371	L2442	M2502	E2573	E2635	M2700	A2759
L1926	L1926	LEU	P2139	E2219	Q2291	E3372	I2444	F2505	H2574	F2636	P2701	E2760
Q1928	M1929	LEU	R2140	T2220	E2293	G3372	Q2444	R2508	R2575	A2637	C2702	I2761
K1930	K1930	THR	Y2142	K2221	D2294	L2376	K2447	V2509	A2576	L2641	L2703	L2762
L1931	S2000	VAL	P2146	E2222	L2295	L2377	G2448	V2510	G2511	K2642	C2704	A2763
V1935	E2004	ARG	P2146	I2223	E2296	E2381	E2449	G2511	G2511	L2643	A2705	E2764
K1936	M2008	LEU	V2149	R2224	K2297	E2382	A2450	E2512	E2512	L2644	I2706	K2765
L1937	L2010	VAL	E2150	R2224	V2298	E2383	L2451	E2513	E2513	L2644	A2707	K2766
Q1938	L2010	VAL	D2151	R2224	V2298	E2383	R2452	R2514	R2514	H2647	G2708	A2767
M1939	H2011	LYS	T2152	R2224	V2298	E2383	I2453	M2515	M2515	H2647	A2709	A2768
Y1945	F2012	LYS	S2154	R2224	V2298	E2383	R2454	D2516	L2583	Y2648	L2710	F2768
D1948	K2013	LYS	L2155	C2232	C2310	L2384	R2454	F2517	L2584	E2649	P2711	D2769
Q1949	D2014	PRO	Q2161	C2233	C2310	R2385	R2458	L2518	T2586	L2650	P2712	K2770
E1950	E2015	GLU	Q2161	C2233	C2310	R2386	S2459	L2519	V2587	C2651	P2713	L2771
A2016	D2017	GLU	L2165	Y2238	L2313	E2387	L2460	H2520	V2587	Y2655	D2713	Q2772
D2018	E2018	GLU	L2166	C2239	L2314	E2388	V2461	H2520	R2588	Y2656	Y2714	N2773
E2019	E2019	LEU	L2167	G2240	A2315	D2389	P2462	D2523	R2588	C2656	V2715	N2774
D2020	D2020	PRO	V2168	I2242	K2316	P2390	L2463	V2524	L2589	L2657	D2716	M2775
C2021	P2021	ALA	Q2169	R2243	G2317	A2391	D2464	G2525	L2590	P2658	A2717	S2776
P2024	L2023	GLU	M2170	R2244	Y2318	R2392	L2466	F2526	R2591	P2659	S2718	S2776
		GLU		Q2245	D2320	G2394	V2467	P2528	G2592	G2660	V2719	V2777
					D2320	G2394	Q2468	P2529	R2593		S2720	G2778
					D2320	G2394		R2529	L2595		S2721	E2779
					D2320	G2394		R2530	L2595		K2721	N2780
					D2320	G2394		R2531	L2595		V2781	N2780
					D2320	G2394		R2532	L2595		I2782	N2781
					D2320	G2394		R2533	L2595		E2782	N2781
					D2320	G2394		R2534	L2595		E2784	N2781
					D2320	G2394		R2535	L2595		K2725	N2781
					D2320	G2394		R2536	L2595		LYS	N2781
					D2320	G2394		R2537	L2595		ALA	N2781
					D2320	G2394		R2538	L2595		THR	N2781
					D2320	G2394		R2539	L2595			N2788

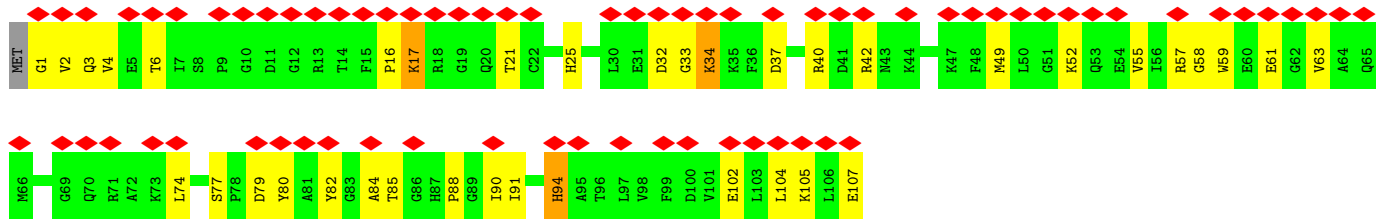


V3511	W3450	G3390	D3330	I3270	L3210	Q3149	K3089	G3029	I2969	D2909	TYR	P2789
A3512	F3451	E3391	E3331	E3271	N3211	H3150	A3090	H3030	S2970	T2910	ASP	W2790
T3513	K3452	L3392	A3332	I3272	E3212	Q3151	G3091	A3031	Q2971	L2911	PRU	L2791
L3514	R3453	L3393	T3333	T3273	Y3213	F3152	L3092	S3032	E2972	T2912	ARG	R2792
K3515	Q3456	V3394	W3334	L3274	N3214	G3153	R3093	K3033	F2973	A2913	GLY	P2793
R3516	N3457	R3395	K3335	P3275	A3215	D3154	S3094	K3034	K2914	K2914	Y2855	V2794
K3517	F3458	D3396	K3336	M3276	C3216	D3155	F3095	E3035	A2975	E2915	N2856	K2795
L3520	V3460	F3398	R3337	L3277	S3217	V3156	E3097	K3036	H2976	K2916	P2857	T2796
G3521	Q3461	S3399	L3338	C3278	Y3218	L3157	S3098	E3037	I2977	I2917	Q2858	F2797
L3522	N3462	V3400	L3339	S3279	Y3219	L3158	A3099	M3038	P2859	R2918	P2859	S2799
N3523	E3463	L3401	V3340	Y3280	T3220	D3159	I3039	I3039	P2860	D2919	P2860	E2799
C3525	R3464	G3402	F3341	L3281	T3221	D3160	S3100	T3040	D2861	R2920	K2800	K2800
A3526	N3465	R3403	Q3342	P3282	K3222	V3161	E3101	S3041	L2862	E2921	D2801	D2801
P3527	N3466	D3404	Q3343	R3283	S3223	Q3162	D3102	L3042	S2863	K2922	K2802	K2802
T3528	M3467	L3405	P3344	W2284	P3224	V3163	E3104	F3043	G2864	A2923	E2803	E2803
D3529	M3468	L3406	I3345	W3285	R3225	S3164	E3105	C3044	V2865	Q2924	I2804	I2804
I3530	F3469	Y3407	V3346	E3286	E3226	C3165	K3105	K3045	R2985	E2925	Y2805	Y2805
D3531	L3470	L3408	S3347	R3287	R3227	Y3166	M3106	L3046	V2986	L2926	R2806	R2806
L3532	T3471	Y3409	A3348	G3288	R3227	R3167	V3107	L3046	L2867	L2927	W2807	W2807
I3533	A3472	P3410	A3349	P3289	A3228	E3108	E3108	A3047	S2868	K2928	P2808	P2808
N3534	D3473	L3411	R3350	E3290	L3230	N3109	N3109	A3048	R2869	R2929	I2809	I2809
K3535	S3474	L3412	F3351	A3291	G3231	L3110	L3110	L3049	E2870	F2929	K2810	K2810
L3536	K3475	L3413	E3352	P3292	L3232	R3111	R3111	V3050	L2871	L2930	L2811	L2811
A3536	R3476	Q3414	L3353	P3293	L3232	Y3173	H2991	R3051	Q2872	Q2931	E2811	E2811
K3537	S3477	R3414	L3354	P3294	P3233	S3174	E2992	H3052	A2873	M2932	S2812	S2812
T3538	K3477	Y3415	H3355	A3295	M3234	L3175	Q2993	R3053	M2874	Q2933	L2813	L2813
R3539	M3478	D3417	S3356	L3296	S3235	G3176	E2994	V3054	A2875	Q2934	K2814	K2814
Y3540	A3479	P3418	H3357	P3297	Y3236	T3177	S3116	S3055	E2876	Y2935	A2815	A2815
A3541	L3541	N3419	F3358	A3298	E3237	T3178	GLN	L3056	Q2877	A2936	W2816	W2816
L3542	K3542	R3420	I3359	A3298	E3238	K3179	ALA	F3057	L2878	T2937	L2817	L2817
K3543	ASP	A3421	P3360	G3299	M3239	N3180	ARG	G3058	A2879	T2938	A2818	A2818
I3544	ALA	H3422	T3361	A3300	C3240	T3181	THR	T3059	E2880	R2939	W2819	W2819
L3545	GLN	W3423	I3362	P3301	P3241	Y3182	VAL	D3060	K3000	GLY	E2820	E2820
L3546	GLY	L3424	K3363	P3302	D3242	V3183	K3123	A3061	I3001	LEU	W2821	W2821
E3547	GLY	T3425	R3364	P3303	I3243	E3184	G3124	P3062	H2883	LYS	T2822	T2822
E3548	GLY	E3426	L3365	C3304	P3244	K3185	V3125	A3063	N2884	ASP	L2823	L2823
V3549	ASP	P3427	R3366	T3305	V3245	L3186	Q3127	V3064	T2885	GLU	E2824	E2824
R3550	GLN	N3428	K3367	A3306	L3246	R3187	L3005	V3065	W2886	L2946	K2825	K2825
E3551	THR	A3429	R3368	V3307	D3247	P3188	I3006	N3066	G2887	D2947	A2826	A2826
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L3553	LYS	A3431	G3370	S3309	R3248	L3130	Q3008	L3068	K2889	S2949	E2828	E2828
Q3554	LYS	K3371	K3371	D3310	L3249	V3131	Y3009	H3069	K2890	S2950	G2829	G2829
R3555	LYS	E3432	V3372	H3311	M3250	G3191	F3010	I3070	K2891	I2951	E2830	E2830
R3556	R3498	E3433	V3373	L3312	A3251	I3192	N3011	L3071	Q2892	E2952	GLU	GLU
L3557	R3499	F3435	A3374	N3313	D3252	C3193	N3012	L3071	E2893	K2953	GLU	GLU
H3558	G3500	R3436	E3375	S3314	I3253	L3194	H3013	A3072	L2894	R2953	THR	THR
L3559	D3501	N3437	E3376	L3315	G3254	A3195	G3014	R3073	E2895	F2955	GLU	GLU
Q3560	R3502	V3438	E3377	L3316	G3255	L3197	L3015	L3075	A2896	F2957	LYS	LYS
S3563	F3503	G3439	Q3378	N3318	A3257	R3197	F3017	D3076	K2897	F2957	LYS	LYS
G3564	S3504	E3440	L3379	L3319	E3358	A3198	G2968	A3077	G2988	G2968	THR	THR
K3562	V3505	F3442	R3380	L3320	S3259	A3199	L3018	R3077	G2989	F2959	ARG	ARG
E3564	Q3506	L3443	L3381	G3260	G3260	T3141	S3019	R3078	G2999	L2960	LYS	LYS
C3565	T3507	W3444	E3382	A3261	M3201	T3141	T3020	T3079	G2900	Q2961	ILE	ILE
S3566	S3508	Y3446	A3383	R3262	A3261	L3143	F3021	V3080	H2902	Q2962	GLN	GLN
P3567	L3509	K3447	K3384	V3263	Y3263	F3144	A3022	M3081	P2903	L2963	THR	THR
S3568	S3448	S3448	E3385	N3325	F3264	Q3145	K3023	S3083	P2903	L2965	ALA	ALA
R3570	L3569	H3449	A3387	N3326	F3266	L3147	V3024	G3084	L2905	W2966	GLN	GLN
W3571	E3388	E3388	E3387	G3327	P3267	A3148	L3025	P3085	G3026	D2967	THR	THR
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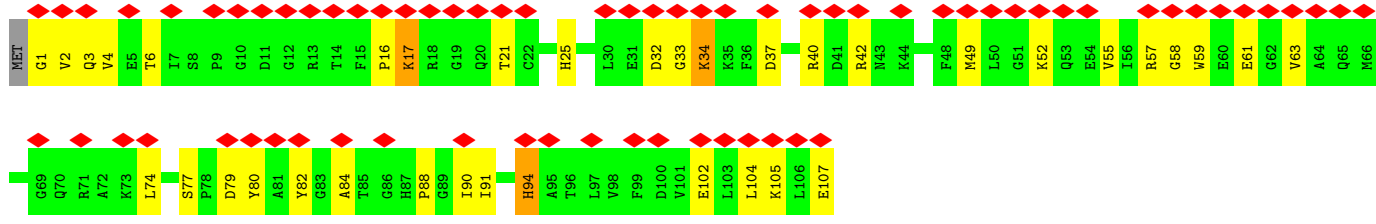




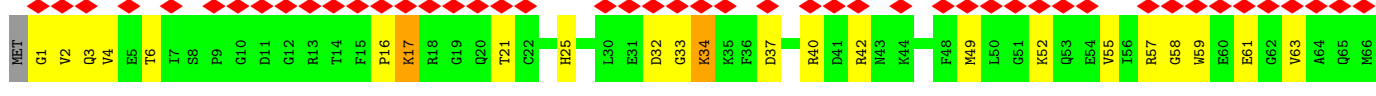
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

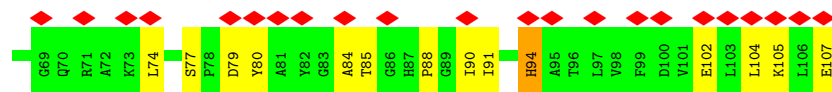


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

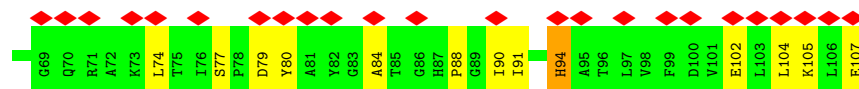
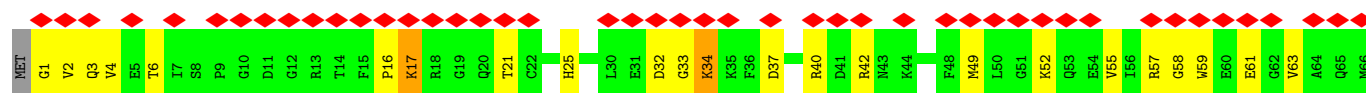


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A





- Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	113183	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	58	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.268	Depositor
Minimum map value	-0.112	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.016	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	427.008, 427.008, 427.008	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.834, 0.834, 0.834	Depositor

## 5 Model quality i

### 5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: ATP, A1BD2, ZN, CA

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.30	1/35977 (0.0%)	0.56	17/48726 (0.0%)
1	B	0.30	1/35977 (0.0%)	0.56	17/48726 (0.0%)
1	C	0.30	1/35977 (0.0%)	0.56	17/48726 (0.0%)
1	D	0.30	1/35977 (0.0%)	0.56	17/48726 (0.0%)
2	E	0.40	0/850	0.91	5/1146 (0.4%)
2	F	0.40	0/850	0.91	5/1146 (0.4%)
2	G	0.40	0/850	0.91	5/1146 (0.4%)
2	H	0.40	0/850	0.91	5/1146 (0.4%)
All	All	0.30	4/147308 (0.0%)	0.57	88/199488 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	6
1	B	0	6
1	C	0	6
1	D	0	6
All	All	0	24

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	3622	LYS	CB-CG	-5.33	1.38	1.52
1	D	3622	LYS	CB-CG	-5.33	1.38	1.52
1	B	3622	LYS	CB-CG	-5.30	1.38	1.52
1	C	3622	LYS	CB-CG	-5.30	1.38	1.52

All (88) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	105	LYS	CD-CE-NZ	-13.61	80.40	111.70
2	F	105	LYS	CD-CE-NZ	-13.60	80.42	111.70
2	G	105	LYS	CD-CE-NZ	-13.59	80.44	111.70
2	H	105	LYS	CD-CE-NZ	-13.58	80.47	111.70
2	F	34	LYS	CD-CE-NZ	13.16	141.97	111.70
2	G	34	LYS	CD-CE-NZ	13.16	141.96	111.70
2	H	34	LYS	CD-CE-NZ	13.15	141.95	111.70
2	E	34	LYS	CD-CE-NZ	13.14	141.93	111.70
1	A	3622	LYS	CB-CG-CD	12.28	143.52	111.60
1	B	3622	LYS	CB-CG-CD	12.27	143.51	111.60
1	C	3622	LYS	CB-CG-CD	12.27	143.51	111.60
1	D	3622	LYS	CB-CG-CD	12.25	143.46	111.60
1	A	3856	LEU	CB-CG-CD2	12.10	131.57	111.00
1	B	3856	LEU	CB-CG-CD2	12.10	131.57	111.00
1	C	3856	LEU	CB-CG-CD2	12.10	131.57	111.00
1	D	3856	LEU	CB-CG-CD2	12.10	131.56	111.00
1	D	3856	LEU	CB-CG-CD1	-10.23	93.62	111.00
1	B	3856	LEU	CB-CG-CD1	-10.22	93.62	111.00
1	A	3856	LEU	CB-CG-CD1	-10.21	93.64	111.00
1	C	3856	LEU	CB-CG-CD1	-10.20	93.66	111.00
1	A	3622	LYS	CG-CD-CE	10.04	142.01	111.90
1	B	3622	LYS	CG-CD-CE	10.03	141.98	111.90
1	C	3622	LYS	CG-CD-CE	10.03	141.98	111.90
1	D	3622	LYS	CG-CD-CE	10.02	141.97	111.90
1	D	960	MET	CA-CB-CG	9.62	129.66	113.30
1	B	960	MET	CA-CB-CG	9.61	129.64	113.30
1	A	960	MET	CA-CB-CG	9.59	129.61	113.30
1	C	960	MET	CA-CB-CG	9.59	129.59	113.30
1	A	4723	LYS	CD-CE-NZ	9.36	133.23	111.70
1	C	4723	LYS	CD-CE-NZ	9.36	133.24	111.70
1	D	4723	LYS	CD-CE-NZ	9.36	133.22	111.70
1	B	4723	LYS	CD-CE-NZ	9.34	133.18	111.70
1	D	960	MET	CB-CG-SD	8.86	138.99	112.40
1	A	960	MET	CB-CG-SD	8.86	138.98	112.40
1	C	960	MET	CB-CG-SD	8.86	138.98	112.40
1	B	960	MET	CB-CG-SD	8.85	138.96	112.40
1	B	3622	LYS	CD-CE-NZ	-8.63	91.85	111.70
1	D	3622	LYS	CD-CE-NZ	-8.63	91.85	111.70
1	C	3622	LYS	CD-CE-NZ	-8.63	91.85	111.70
1	A	3622	LYS	CD-CE-NZ	-8.62	91.87	111.70
2	F	17	LYS	CB-CG-CD	7.44	130.95	111.60
2	G	17	LYS	CB-CG-CD	7.44	130.94	111.60
2	H	17	LYS	CB-CG-CD	7.43	130.93	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	17	LYS	CB-CG-CD	7.43	130.91	111.60
1	B	2440	MET	CG-SD-CE	-6.76	89.39	100.20
1	C	2440	MET	CG-SD-CE	-6.76	89.39	100.20
1	A	2440	MET	CG-SD-CE	-6.75	89.39	100.20
1	D	2440	MET	CG-SD-CE	-6.75	89.39	100.20
1	D	4161	ARG	CG-CD-NE	6.54	125.54	111.80
1	C	4161	ARG	CG-CD-NE	6.54	125.54	111.80
1	A	4161	ARG	CG-CD-NE	6.52	125.49	111.80
1	B	4161	ARG	CG-CD-NE	6.51	125.48	111.80
1	B	2816	MET	CG-SD-CE	-6.45	89.88	100.20
1	D	2816	MET	CG-SD-CE	-6.44	89.90	100.20
1	A	2816	MET	CG-SD-CE	-6.44	89.90	100.20
1	C	2816	MET	CG-SD-CE	-6.43	89.92	100.20
1	C	3437	MET	CB-CG-SD	6.35	131.46	112.40
1	B	3437	MET	CB-CG-SD	6.35	131.45	112.40
1	C	1579	MET	CA-CB-CG	6.34	124.08	113.30
1	A	3437	MET	CB-CG-SD	6.34	131.42	112.40
1	D	3437	MET	CB-CG-SD	6.33	131.39	112.40
1	B	1579	MET	CA-CB-CG	6.33	124.06	113.30
1	A	1579	MET	CA-CB-CG	6.32	124.05	113.30
1	D	1579	MET	CA-CB-CG	6.31	124.03	113.30
1	D	1636	MET	CB-CG-SD	5.66	129.37	112.40
1	A	1636	MET	CB-CG-SD	5.65	129.35	112.40
1	C	1636	MET	CB-CG-SD	5.64	129.33	112.40
1	B	1636	MET	CB-CG-SD	5.64	129.31	112.40
1	A	3793	MET	CB-CG-SD	-5.53	95.81	112.40
1	D	3793	MET	CB-CG-SD	-5.53	95.81	112.40
1	C	3793	MET	CB-CG-SD	-5.53	95.81	112.40
1	B	3793	MET	CB-CG-SD	-5.52	95.85	112.40
1	D	4057	MET	CB-CG-SD	5.45	128.74	112.40
1	A	4057	MET	CB-CG-SD	5.43	128.70	112.40
1	B	4057	MET	CB-CG-SD	5.43	128.70	112.40
1	C	4057	MET	CB-CG-SD	5.43	128.70	112.40
2	E	17	LYS	CG-CD-CE	5.33	127.88	111.90
2	H	17	LYS	CG-CD-CE	5.33	127.88	111.90
2	G	17	LYS	CG-CD-CE	5.32	127.87	111.90
2	F	17	LYS	CG-CD-CE	5.31	127.83	111.90
1	D	2440	MET	CB-CG-SD	-5.23	96.71	112.40
1	A	2440	MET	CB-CG-SD	-5.22	96.75	112.40
1	B	2440	MET	CB-CG-SD	-5.21	96.76	112.40
1	C	2440	MET	CB-CG-SD	-5.21	96.76	112.40
2	G	105	LYS	CG-CD-CE	5.19	127.47	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	105	LYS	CG-CD-CE	5.19	127.46	111.90
2	E	105	LYS	CG-CD-CE	5.18	127.45	111.90
2	F	105	LYS	CG-CD-CE	5.18	127.44	111.90

There are no chirality outliers.

All (24) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1025	ARG	Sidechain
1	A	2702	CYS	Peptide
1	A	3196	ARG	Sidechain
1	A	3366	ARG	Sidechain
1	A	3436	ARG	Sidechain
1	A	3637	ARG	Sidechain
1	B	1025	ARG	Sidechain
1	B	2702	CYS	Peptide
1	B	3196	ARG	Sidechain
1	B	3366	ARG	Sidechain
1	B	3436	ARG	Sidechain
1	B	3637	ARG	Sidechain
1	C	1025	ARG	Sidechain
1	C	2702	CYS	Peptide
1	C	3196	ARG	Sidechain
1	C	3366	ARG	Sidechain
1	C	3436	ARG	Sidechain
1	C	3637	ARG	Sidechain
1	D	1025	ARG	Sidechain
1	D	2702	CYS	Peptide
1	D	3196	ARG	Sidechain
1	D	3366	ARG	Sidechain
1	D	3436	ARG	Sidechain
1	D	3637	ARG	Sidechain

## 5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	35150	0	34795	1497	0
1	B	35150	0	34795	1483	0
1	C	35150	0	34795	1510	0
1	D	35150	0	34795	1512	0
2	E	831	0	831	42	0
2	F	831	0	831	41	0
2	G	831	0	831	41	0
2	H	831	0	831	42	0
3	A	31	0	12	0	0
3	B	31	0	12	0	0
3	C	31	0	12	0	0
3	D	31	0	12	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
6	A	18	0	0	3	0
6	B	18	0	0	3	0
6	C	18	0	0	3	0
6	D	18	0	0	3	0
All	All	144128	0	142552	6089	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 21.

All (6089) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3365:LEU:HD11	1:D:3405:LEU:HD23	1.43	1.00
1:B:899:ASP:OD1	1:B:902:ARG:NH2	1.95	0.99
1:B:3308:THR:OG1	1:B:3310:ASP:OD1	1.80	0.99
1:A:899:ASP:OD1	1:A:902:ARG:NH2	1.95	0.99
1:C:899:ASP:OD1	1:C:902:ARG:NH2	1.95	0.99
1:D:3308:THR:OG1	1:D:3310:ASP:OD1	1.80	0.98
1:C:4949:GLN:NE2	1:C:4953:ASP:OD2	1.97	0.98
1:D:899:ASP:OD1	1:D:902:ARG:NH2	1.95	0.98
1:A:3308:THR:OG1	1:A:3310:ASP:OD1	1.80	0.98
1:B:3365:LEU:HD11	1:B:3405:LEU:HD23	1.43	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3365:LEU:HD11	1:A:3405:LEU:HD23	1.43	0.97
1:D:4949:GLN:NE2	1:D:4953:ASP:OD2	1.97	0.97
1:C:3308:THR:OG1	1:C:3310:ASP:OD1	1.80	0.97
1:A:4949:GLN:NE2	1:A:4953:ASP:OD2	1.97	0.97
1:B:4949:GLN:NE2	1:B:4953:ASP:OD2	1.97	0.97
1:D:886:ARG:NH1	1:D:889:GLN:OE1	1.98	0.97
1:C:2035:HIS:HD1	1:C:3657:TYR:HH	1.08	0.97
1:C:2393:ASP:OD2	1:C:2415:ARG:NH1	1.98	0.97
1:C:3365:LEU:HD11	1:C:3405:LEU:HD23	1.43	0.96
1:B:886:ARG:NH1	1:B:889:GLN:OE1	1.98	0.96
1:B:2393:ASP:OD2	1:B:2415:ARG:NH1	1.98	0.96
1:C:886:ARG:NH1	1:C:889:GLN:OE1	1.98	0.96
1:A:2393:ASP:OD2	1:A:2415:ARG:NH1	1.98	0.96
1:C:2752:ASP:OD1	1:C:2810:LYS:NZ	1.99	0.96
1:A:2752:ASP:OD1	1:A:2810:LYS:NZ	1.99	0.95
1:D:2393:ASP:OD2	1:D:2415:ARG:NH1	1.98	0.95
1:A:886:ARG:NH1	1:A:889:GLN:OE1	1.98	0.95
1:A:221:ARG:NH1	1:A:253:CYS:O	2.00	0.95
1:D:221:ARG:NH1	1:D:253:CYS:O	2.00	0.95
1:D:4176:PRO:O	1:D:4202:ARG:NH2	2.00	0.95
1:A:4176:PRO:O	1:A:4202:ARG:NH2	2.00	0.95
1:B:2035:HIS:HD1	1:B:3657:TYR:HH	1.09	0.95
1:B:2752:ASP:OD1	1:B:2810:LYS:NZ	1.99	0.95
1:B:4176:PRO:O	1:B:4202:ARG:NH2	2.00	0.94
1:C:221:ARG:NH1	1:C:253:CYS:O	2.00	0.94
1:C:1720:LEU:HD23	1:C:1851:MET:HE1	1.48	0.94
1:B:2702:CYS:SG	1:B:2704:CYS:N	2.41	0.94
1:A:2309:SER:OG	1:A:2321:ILE:O	1.86	0.94
1:B:221:ARG:NH1	1:B:253:CYS:O	2.00	0.94
1:C:4176:PRO:O	1:C:4202:ARG:NH2	2.00	0.94
1:D:2702:CYS:SG	1:D:2704:CYS:N	2.41	0.94
1:D:2752:ASP:OD1	1:D:2810:LYS:NZ	1.99	0.93
1:A:2702:CYS:SG	1:A:2704:CYS:N	2.41	0.93
1:D:2035:HIS:HD1	1:D:3657:TYR:HH	1.14	0.93
1:D:5036:LEU:O	1:D:5037:SER:OG	1.87	0.93
1:C:2309:SER:OG	1:C:2321:ILE:O	1.86	0.93
1:C:2702:CYS:SG	1:C:2704:CYS:N	2.41	0.93
1:B:5036:LEU:O	1:B:5037:SER:OG	1.87	0.93
1:D:2309:SER:OG	1:D:2321:ILE:O	1.86	0.92
1:B:2309:SER:OG	1:B:2321:ILE:O	1.86	0.92
1:C:5036:LEU:O	1:C:5037:SER:OG	1.87	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2230:THR:OG1	1:D:2268[B]:GLN:OE1	1.87	0.91
1:C:1156:THR:OG1	1:C:1157:GLU:OE1	1.89	0.91
1:A:5036:LEU:O	1:A:5037:SER:OG	1.87	0.91
1:B:2230:THR:OG1	1:B:2268[B]:GLN:OE1	1.87	0.91
1:C:1454:THR:OG1	1:C:1456:ASP:OD1	1.89	0.91
1:B:1720:LEU:HD23	1:B:1851:MET:HE1	1.50	0.91
1:C:2230:THR:OG1	1:C:2268[B]:GLN:OE1	1.87	0.91
1:A:3052:HIS:NE2	1:A:3128:ASN:OD1	2.04	0.91
1:A:1579:MET:HE2	1:A:1580:PHE:CE1	2.07	0.90
1:D:1454:THR:OG1	1:D:1456:ASP:OD1	1.89	0.90
1:A:177:GLU:O	1:D:2359:ARG:NH2	2.04	0.90
1:B:3052:HIS:NE2	1:B:3128:ASN:OD1	2.04	0.90
1:A:2230:THR:OG1	1:A:2268[B]:GLN:OE1	1.87	0.90
1:B:1454:THR:OG1	1:B:1456:ASP:OD1	1.89	0.90
1:A:2035:HIS:HD1	1:A:3657:TYR:HH	1.04	0.90
1:B:1156:THR:OG1	1:B:1157:GLU:OE1	1.89	0.90
1:D:1156:THR:OG1	1:D:1157:GLU:OE1	1.89	0.90
1:D:1579:MET:HE2	1:D:1580:PHE:CE1	2.07	0.90
1:A:1454:THR:OG1	1:A:1456:ASP:OD1	1.89	0.90
1:A:1156:THR:OG1	1:A:1157:GLU:OE1	1.89	0.89
1:D:3052:HIS:NE2	1:D:3128:ASN:OD1	2.04	0.89
1:C:601:ASP:OD1	1:C:1668:ARG:NH2	2.05	0.89
1:D:601:ASP:OD1	1:D:1668:ARG:NH2	2.05	0.89
1:C:728:ARG:NH2	1:C:1489:CYS:SG	2.46	0.89
1:D:728:ARG:NH2	1:D:1489:CYS:SG	2.46	0.89
1:C:3052:HIS:NE2	1:C:3128:ASN:OD1	2.05	0.89
1:A:2230:THR:OG1	1:A:2268[A]:GLN:OE1	1.91	0.89
1:A:495:ASN:OD1	1:A:553:ARG:NH1	2.06	0.88
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.05	0.88
1:B:728:ARG:NH2	1:B:1489:CYS:SG	2.46	0.88
1:A:266:ARG:NH1	1:A:268:SER:O	2.07	0.88
1:A:601:ASP:OD1	1:A:1668:ARG:NH2	2.05	0.88
1:B:495:ASN:OD1	1:B:553:ARG:NH1	2.06	0.88
1:D:266:ARG:NH1	1:D:268:SER:O	2.07	0.88
1:C:495:ASN:OD1	1:C:553:ARG:NH1	2.06	0.88
1:B:1579:MET:HE2	1:B:1580:PHE:CE1	2.07	0.88
1:D:1720:LEU:HD23	1:D:1851:MET:HE1	1.53	0.88
1:D:495:ASN:OD1	1:D:553:ARG:NH1	2.06	0.88
1:C:2230:THR:OG1	1:C:2268[A]:GLN:OE1	1.91	0.88
1:B:1987:SER:O	1:B:1991:THR:OG1	1.91	0.88
1:B:2230:THR:OG1	1:B:2268[A]:GLN:OE1	1.91	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1987:SER:O	1:D:1991:THR:OG1	1.91	0.88
1:D:3141:THR:OG1	1:D:3193:CYS:SG	2.32	0.88
1:C:266:ARG:NH1	1:C:268:SER:O	2.07	0.88
1:C:1987:SER:O	1:C:1991:THR:OG1	1.91	0.88
1:D:1252:HIS:O	1:D:1275:ARG:NH2	2.07	0.87
1:A:2359:ARG:NH2	1:B:177:GLU:O	2.08	0.87
1:B:1252:HIS:O	1:B:1275:ARG:NH2	2.07	0.87
1:A:728:ARG:NH2	1:A:1489:CYS:SG	2.46	0.87
1:B:3141:THR:OG1	1:B:3193:CYS:SG	2.32	0.87
1:C:3141:THR:OG1	1:C:3193:CYS:SG	2.32	0.87
1:D:177:GLU:O	1:C:2359:ARG:NH2	2.06	0.87
1:C:2725:LYS:NZ	1:C:2734:ASN:O	2.08	0.87
1:A:3181:THR:HG22	1:A:3185:LYS:HZ3	1.40	0.87
1:D:2230:THR:OG1	1:D:2268[A]:GLN:OE1	1.91	0.87
1:D:3181:THR:HG22	1:D:3185:LYS:NZ	1.90	0.87
1:B:2668:SER:OG	1:B:2671:GLU:OE1	1.93	0.87
1:C:1252:HIS:O	1:C:1275:ARG:NH2	2.07	0.87
1:A:1112:ASP:OD1	1:A:1113:VAL:N	2.08	0.87
1:A:2288:LEU:O	1:A:3849:ARG:NH1	2.08	0.87
1:D:1112:ASP:OD1	1:D:1113:VAL:N	2.08	0.87
1:A:1720:LEU:HD23	1:A:1851:MET:HE1	1.53	0.86
1:A:1987:SER:O	1:A:1991:THR:OG1	1.91	0.86
1:D:2288:LEU:O	1:D:3849:ARG:NH1	2.08	0.86
1:B:266:ARG:NH1	1:B:268:SER:O	2.07	0.86
1:B:2359:ARG:NH2	1:C:177:GLU:O	2.07	0.86
1:A:3868:ARG:NH1	1:A:3870:ASN:OD1	2.08	0.86
1:B:2288:LEU:O	1:B:3849:ARG:NH1	2.08	0.86
1:C:2668:SER:OG	1:C:2671:GLU:OE1	1.93	0.86
1:C:3181:THR:HG22	1:C:3185:LYS:NZ	1.90	0.86
1:B:3181:THR:HG22	1:B:3185:LYS:NZ	1.90	0.86
1:B:3868:ARG:NH1	1:B:3870:ASN:OD1	2.08	0.86
1:A:3181:THR:HG22	1:A:3185:LYS:NZ	1.90	0.86
1:C:3868:ARG:NH1	1:C:3870:ASN:OD1	2.08	0.86
1:B:2725:LYS:NZ	1:B:2734:ASN:O	2.08	0.85
1:C:2288:LEU:O	1:C:3849:ARG:NH1	2.08	0.85
1:C:3777:GLU:O	1:C:3781:GLN:NE2	2.09	0.85
1:A:1252:HIS:O	1:A:1275:ARG:NH2	2.07	0.85
1:A:4902:GLU:O	1:A:4913:ARG:NH1	2.09	0.85
1:D:2725:LYS:NZ	1:D:2734:ASN:O	2.08	0.85
1:D:4902:GLU:O	1:D:4913:ARG:NH1	2.09	0.85
1:A:3777:GLU:O	1:A:3781:GLN:NE2	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3868:ARG:NH1	1:D:3870:ASN:OD1	2.08	0.85
1:B:4902:GLU:O	1:B:4913:ARG:NH1	2.09	0.85
1:D:2461:VAL:O	1:D:2510:TYR:OH	1.94	0.85
1:C:4902:GLU:O	1:C:4913:ARG:NH1	2.09	0.85
1:B:1112:ASP:OD1	1:B:1113:VAL:N	2.08	0.85
1:D:3777:GLU:O	1:D:3781:GLN:NE2	2.09	0.85
1:A:2668:SER:OG	1:A:2671:GLU:OE1	1.93	0.85
1:A:2725:LYS:NZ	1:A:2734:ASN:O	2.08	0.85
1:C:1112:ASP:OD1	1:C:1113:VAL:N	2.08	0.85
1:B:2526:PHE:HB3	1:B:2530:MET:HE1	1.58	0.84
1:D:2526:PHE:HB3	1:D:2530:MET:HE1	1.59	0.84
1:A:2461:VAL:O	1:A:2510:TYR:OH	1.94	0.84
1:A:3141:THR:HG1	1:A:3193:CYS:HG	1.19	0.84
1:B:3154:ASP:OD1	1:B:3283:ARG:NH2	2.11	0.84
1:B:3777:GLU:O	1:B:3781:GLN:NE2	2.09	0.84
1:C:2461:VAL:O	1:C:2510:TYR:OH	1.94	0.84
1:A:1027:LEU:O	1:A:1032:LYS:NZ	2.11	0.84
1:B:2461:VAL:O	1:B:2510:TYR:OH	1.94	0.84
1:D:2668:SER:OG	1:D:2671:GLU:OE1	1.93	0.84
1:C:4069:LYS:NZ	1:C:4130:ASN:OD1	2.11	0.84
1:B:2592:GLY:O	1:B:2600:ARG:NH2	2.11	0.84
1:B:2897:LYS:NZ	1:B:2899:GLY:O	2.10	0.84
1:D:769:GLU:OE2	1:D:1475:THR:OG1	1.94	0.84
1:C:2592:GLY:O	1:C:2600:ARG:NH2	2.11	0.84
1:A:2897:LYS:NZ	1:A:2899:GLY:O	2.10	0.84
1:A:3154:ASP:OD1	1:A:3283:ARG:NH2	2.11	0.84
1:D:2592:GLY:O	1:D:2600:ARG:NH2	2.11	0.84
1:A:2592:GLY:O	1:A:2600:ARG:NH2	2.11	0.84
1:A:4069:LYS:NZ	1:A:4130:ASN:OD1	2.11	0.84
1:D:221:ARG:NH2	1:D:397:GLU:OE2	2.11	0.84
1:A:221:ARG:NH2	1:A:397:GLU:OE2	2.11	0.84
1:A:1207:ASP:OD2	1:A:1209:SER:OG	1.95	0.84
1:D:2897:LYS:NZ	1:D:2899:GLY:O	2.10	0.84
1:D:4069:LYS:NZ	1:D:4130:ASN:OD1	2.11	0.84
1:C:769:GLU:OE2	1:C:1475:THR:OG1	1.94	0.84
1:C:2897:LYS:NZ	1:C:2899:GLY:O	2.10	0.84
1:B:1027:LEU:O	1:B:1032:LYS:NZ	2.11	0.83
1:B:4069:LYS:NZ	1:B:4130:ASN:OD1	2.11	0.83
1:D:1207:ASP:OD2	1:D:1209:SER:OG	1.96	0.83
1:C:1027:LEU:O	1:C:1032:LYS:NZ	2.11	0.83
1:C:1207:ASP:OD2	1:C:1209:SER:OG	1.95	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2526:PHE:HB3	1:C:2530:MET:HE1	1.58	0.83
1:B:3048:ALA:O	1:B:3053:ARG:NH2	2.11	0.83
1:A:769:GLU:OE2	1:A:1475:THR:OG1	1.94	0.83
1:B:1207:ASP:OD2	1:B:1209:SER:OG	1.95	0.83
1:D:1027:LEU:O	1:D:1032:LYS:NZ	2.11	0.83
1:C:1579:MET:HE2	1:C:1580:PHE:CE1	2.12	0.83
1:B:3588:ASP:OD2	1:B:3591:LYS:NZ	2.12	0.83
1:C:2308:GLN:O	1:C:2324:ASN:N	2.11	0.83
1:C:3048:ALA:O	1:C:3053:ARG:NH2	2.11	0.83
1:D:2308:GLN:O	1:D:2324:ASN:N	2.11	0.83
1:B:769:GLU:OE2	1:B:1475:THR:OG1	1.94	0.83
1:B:2308:GLN:O	1:B:2324:ASN:N	2.11	0.83
1:A:1422:ASP:OD2	1:A:1568:LYS:NZ	2.12	0.83
1:A:3588:ASP:OD2	1:A:3591:LYS:NZ	2.12	0.83
1:C:221:ARG:NH2	1:C:397:GLU:OE2	2.11	0.83
1:A:2308:GLN:O	1:A:2324:ASN:N	2.11	0.82
1:A:3141:THR:OG1	1:A:3193:CYS:SG	2.32	0.82
1:B:3955:MET:HE1	1:B:4016:LEU:HA	1.60	0.82
1:C:3181:THR:HG22	1:C:3185:LYS:HZ3	1.43	0.82
1:A:2526:PHE:HB3	1:A:2530:MET:HE1	1.60	0.82
1:D:1422:ASP:OD2	1:D:1568:LYS:NZ	2.12	0.82
1:D:3048:ALA:O	1:D:3053:ARG:NH2	2.11	0.82
1:D:3154:ASP:OD1	1:D:3283:ARG:NH2	2.11	0.82
1:C:3588:ASP:OD2	1:C:3591:LYS:NZ	2.12	0.82
1:B:3181:THR:HG22	1:B:3185:LYS:HZ3	1.43	0.82
1:C:3154:ASP:OD1	1:C:3283:ARG:NH2	2.11	0.82
1:A:112:ALA:O	1:A:115:ARG:NH1	2.13	0.82
1:A:3048:ALA:O	1:A:3053:ARG:NH2	2.11	0.82
1:D:112:ALA:O	1:D:115:ARG:NH1	2.13	0.82
1:B:3262:ARG:NH1	1:B:3325:ASN:O	2.13	0.82
1:D:28:VAL:HG23	1:D:29:LEU:HD23	1.62	0.82
1:C:3262:ARG:NH1	1:C:3325:ASN:O	2.13	0.82
1:B:3539:ARG:NH2	1:B:3548:GLU:OE2	2.13	0.82
1:A:3262:ARG:NH1	1:A:3325:ASN:O	2.13	0.82
1:D:3955:MET:HE1	1:D:4016:LEU:HA	1.62	0.82
1:A:3539:ARG:NH2	1:A:3548:GLU:OE2	2.13	0.81
1:B:221:ARG:NH2	1:B:397:GLU:OE2	2.11	0.81
1:A:4991:PHE:O	1:A:4995:LEU:HD12	1.80	0.81
1:B:1422:ASP:OD2	1:B:1568:LYS:NZ	2.12	0.81
1:B:112:ALA:O	1:B:115:ARG:NH1	2.13	0.81
1:C:28:VAL:HG23	1:C:29:LEU:HD23	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2582:MET:CE	1:B:2610:LEU:HD13	2.11	0.81
1:C:112:ALA:O	1:C:115:ARG:NH1	2.13	0.81
1:B:3210:LEU:HD13	1:B:3304:CYS:O	1.80	0.81
1:B:4991:PHE:O	1:B:4995:LEU:HD12	1.80	0.81
1:D:173:SER:HG	1:D:176:SER:HG	0.82	0.81
1:D:3210:LEU:HD13	1:D:3304:CYS:O	1.80	0.81
1:C:4991:PHE:O	1:C:4995:LEU:HD12	1.80	0.81
1:B:2093:SER:OG	1:B:2096:GLU:OE1	1.99	0.81
1:D:2859:PRO:HB3	1:D:2932:MET:SD	2.21	0.81
1:C:2859:PRO:HB3	1:C:2932:MET:SD	2.21	0.81
1:C:3955:MET:HE1	1:C:4016:LEU:HA	1.63	0.81
1:A:2582:MET:CE	1:A:2610:LEU:HD13	2.11	0.81
1:D:3539:ARG:NH2	1:D:3548:GLU:OE2	2.13	0.81
1:C:1422:ASP:OD2	1:C:1568:LYS:NZ	2.12	0.81
1:C:3210:LEU:HD13	1:C:3304:CYS:O	1.80	0.81
1:A:28:VAL:HG23	1:A:29:LEU:HD23	1.62	0.81
1:C:3539:ARG:NH2	1:C:3548:GLU:OE2	2.13	0.81
1:A:3955:MET:HE1	1:A:4016:LEU:HA	1.62	0.80
1:D:2974:ILE:HD13	1:D:3049:LEU:HD12	1.63	0.80
1:D:3262:ARG:NH1	1:D:3325:ASN:O	2.13	0.80
1:D:3588:ASP:OD2	1:D:3591:LYS:NZ	2.12	0.80
1:A:5014:TYR:OH	6:A:5304:A1BD2:O2	2.00	0.80
1:B:2974:ILE:HD13	1:B:3049:LEU:HD12	1.63	0.80
1:C:2582:MET:CE	1:C:2610:LEU:HD13	2.11	0.80
1:A:3210:LEU:HD13	1:A:3304:CYS:O	1.80	0.80
1:B:2030:ASP:OD1	1:B:2031:LEU:N	2.15	0.80
1:C:3235:SER:OG	1:C:3237:GLU:OE1	1.99	0.80
1:C:3300:ALA:HB3	1:C:3301:PRO:HD3	1.64	0.80
1:D:2582:MET:CE	1:D:2610:LEU:HD13	2.11	0.80
1:D:3235:SER:OG	1:D:3237:GLU:OE1	1.99	0.80
1:A:2030:ASP:OD1	1:A:2031:LEU:N	2.15	0.80
1:A:2093:SER:OG	1:A:2096:GLU:OE1	1.99	0.80
1:A:2859:PRO:HB3	1:A:2932:MET:SD	2.21	0.80
1:A:2410:PRO:HG3	1:A:2415:ARG:HB2	1.64	0.80
1:B:3300:ALA:HB3	1:B:3301:PRO:HD3	1.64	0.80
1:D:2030:ASP:OD1	1:D:2031:LEU:N	2.15	0.80
1:C:2684:ASP:OD1	1:C:2685:SER:N	2.15	0.80
1:A:2974:ILE:HD13	1:A:3049:LEU:HD12	1.63	0.79
1:D:4991:PHE:O	1:D:4995:LEU:HD12	1.80	0.79
1:A:2684:ASP:OD1	1:A:2685:SER:N	2.15	0.79
1:B:2684:ASP:OD1	1:B:2685:SER:N	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2859:PRO:HB3	1:B:2932:MET:SD	2.21	0.79
1:D:2410:PRO:HG3	1:D:2415:ARG:HB2	1.64	0.79
1:C:2030:ASP:OD1	1:C:2031:LEU:N	2.15	0.79
1:A:3284:TRP:O	1:A:3305:THR:HG21	1.82	0.79
1:C:2093:SER:OG	1:C:2096:GLU:OE1	1.99	0.79
1:B:28:VAL:HG23	1:B:29:LEU:HD23	1.62	0.79
1:D:3097:GLU:O	1:D:3100:SER:OG	2.00	0.79
1:C:140:ASP:OD2	1:C:142:THR:OG1	2.01	0.79
1:B:3566:SER:HG	1:B:3568:SER:HG	0.81	0.79
1:D:2093:SER:OG	1:D:2096:GLU:OE1	1.99	0.79
1:C:2974:ILE:HD13	1:C:3049:LEU:HD12	1.63	0.79
1:C:5014:TYR:OH	6:C:5304:A1BD2:O2	2.00	0.79
1:D:3300:ALA:HB3	1:D:3301:PRO:HD3	1.64	0.79
1:D:140:ASP:OD2	1:D:142:THR:OG1	2.01	0.79
1:D:2684:ASP:OD1	1:D:2685:SER:N	2.15	0.79
1:D:3284:TRP:O	1:D:3305:THR:HG21	1.82	0.79
1:A:3235:SER:OG	1:A:3237:GLU:OE1	1.99	0.78
1:A:3300:ALA:HB3	1:A:3301:PRO:HD3	1.64	0.78
1:C:3284:TRP:O	1:C:3305:THR:HG21	1.82	0.78
1:B:5014:TYR:OH	6:B:5304:A1BD2:O2	2.00	0.78
1:D:3181:THR:HG22	1:D:3185:LYS:HZ3	1.48	0.78
1:B:2410:PRO:HG3	1:B:2415:ARG:HB2	1.64	0.78
1:D:5014:TYR:OH	6:D:5304:A1BD2:O2	2.00	0.78
1:C:2410:PRO:HG3	1:C:2415:ARG:HB2	1.64	0.78
1:C:3566:SER:HG	1:C:3568:SER:HG	0.79	0.78
1:A:140:ASP:OD2	1:A:142:THR:OG1	2.01	0.78
1:B:140:ASP:OD2	1:B:142:THR:OG1	2.01	0.78
1:B:1269:CYS:SG	1:B:1563:GLN:NE2	2.57	0.78
1:B:3284:TRP:O	1:B:3305:THR:HG21	1.82	0.78
1:D:4021:LYS:O	1:D:4025:VAL:HG23	1.84	0.78
1:A:4021:LYS:O	1:A:4025:VAL:HG23	1.84	0.78
1:D:3566:SER:HG	1:D:3568:SER:HG	0.80	0.78
1:C:1269:CYS:SG	1:C:1563:GLN:NE2	2.57	0.78
1:C:3351:PRO:HA	1:C:3415:TYR:OH	1.84	0.78
1:A:2747:ILE:HG21	1:A:2814:LYS:HG2	1.66	0.77
1:B:3235:SER:OG	1:B:3237:GLU:OE1	1.99	0.77
1:A:3097:GLU:O	1:A:3100:SER:OG	2.00	0.77
1:B:2747:ILE:HG21	1:B:2814:LYS:HG2	1.66	0.77
1:C:144:GLU:OE2	1:C:174:VAL:HG12	1.84	0.77
1:C:4021:LYS:O	1:C:4025:VAL:HG23	1.84	0.77
1:D:144:GLU:OE2	1:D:174:VAL:HG12	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:144:GLU:OE2	1:A:174:VAL:HG12	1.84	0.77
1:D:2668:SER:O	1:D:2669:GLU:HG3	1.85	0.77
1:D:3351:PRO:HA	1:D:3415:TYR:OH	1.84	0.77
1:C:2751:LEU:HD22	1:C:2817:ILE:HD11	1.66	0.77
1:B:3351:PRO:HA	1:B:3415:TYR:OH	1.84	0.77
1:C:2668:SER:O	1:C:2669:GLU:HG3	1.85	0.77
1:A:2674:LEU:HA	1:A:2677:LYS:HE2	1.67	0.77
1:B:144:GLU:OE2	1:B:174:VAL:HG12	1.84	0.77
1:D:3762:ARG:NH1	1:D:4755:GLU:OE1	2.18	0.77
1:A:879:HIS:CE1	1:A:906:CYS:HG	2.02	0.77
1:A:1276:THR:O	1:A:1279:SER:OG	2.03	0.77
1:A:3270:ILE:HG23	1:A:3338:LEU:HD13	1.67	0.77
1:A:3762:ARG:NH1	1:A:4755:GLU:OE1	2.18	0.77
1:B:1276:THR:O	1:B:1279:SER:OG	2.03	0.77
1:C:2674:LEU:HA	1:C:2677:LYS:HE2	1.67	0.77
1:B:4687:TYR:O	1:B:4691:GLN:NE2	2.18	0.77
1:D:2674:LEU:HA	1:D:2677:LYS:HE2	1.67	0.77
1:D:2679:PHE:CE1	1:D:2703:LEU:HD13	2.20	0.77
1:A:2668:SER:O	1:A:2669:GLU:HG3	1.85	0.76
1:D:2751:LEU:HD22	1:D:2817:ILE:HD11	1.66	0.76
1:B:1973:GLN:OE1	1:B:3641:LEU:N	2.18	0.76
1:B:4021:LYS:O	1:B:4025:VAL:HG23	1.84	0.76
1:C:4137:ARG:NH2	1:C:4199:GLU:OE2	2.18	0.76
1:A:1973:GLN:OE1	1:A:3641:LEU:N	2.18	0.76
1:A:4137:ARG:NH2	1:A:4199:GLU:OE2	2.18	0.76
1:A:4687:TYR:O	1:A:4691:GLN:NE2	2.18	0.76
1:B:1003:GLN:O	1:B:1016:ARG:NH2	2.19	0.76
1:B:3762:ARG:NH1	1:B:4755:GLU:OE1	2.18	0.76
1:D:3249:LEU:HD23	1:D:3277:LEU:HD12	1.67	0.76
1:C:1003:GLN:O	1:C:1016:ARG:NH2	2.18	0.76
1:C:1644:GLU:OE1	1:C:1646:ARG:NH2	2.19	0.76
1:A:1269:CYS:SG	1:A:1563:GLN:NE2	2.57	0.76
1:B:3249:LEU:HD23	1:B:3277:LEU:HD12	1.67	0.76
1:B:3376:GLU:OE2	1:B:3448:SER:OG	2.03	0.76
1:C:3270:ILE:HG23	1:C:3338:LEU:HD13	1.67	0.76
1:C:3376:GLU:OE2	1:C:3448:SER:OG	2.03	0.76
1:B:2679:PHE:CE1	1:B:2703:LEU:HD13	2.20	0.76
1:D:1644:GLU:OE1	1:D:1646:ARG:NH2	2.19	0.76
1:C:1973:GLN:OE1	1:C:3641:LEU:N	2.18	0.76
1:A:183:SER:O	1:A:186:SER:OG	2.03	0.76
1:A:3366:ARG:NE	1:A:3440:GLU:OE1	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3566:SER:HG	1:A:3568:SER:HG	0.77	0.76
1:B:1644:GLU:OE1	1:B:1646:ARG:NH2	2.19	0.76
1:B:2668:SER:O	1:B:2669:GLU:HG3	1.85	0.76
1:D:1003:GLN:O	1:D:1016:ARG:NH2	2.18	0.76
1:C:3762:ARG:NH1	1:C:4755:GLU:OE1	2.18	0.76
1:C:4687:TYR:O	1:C:4691:GLN:NE2	2.18	0.76
1:A:1644:GLU:OE1	1:A:1646:ARG:NH2	2.19	0.76
1:A:4578:LEU:O	1:B:4879:MET:HB2	1.85	0.76
1:B:2674:LEU:HA	1:B:2677:LYS:HE2	1.67	0.76
1:B:3097:GLU:O	1:B:3100:SER:OG	2.00	0.76
1:D:4687:TYR:O	1:D:4691:GLN:NE2	2.18	0.76
1:B:3366:ARG:NE	1:B:3440:GLU:OE1	2.19	0.76
1:D:3376:GLU:OE2	1:D:3448:SER:OG	2.03	0.76
1:C:891:TRP:O	1:C:959:TYR:OH	2.04	0.76
1:C:2679:PHE:CE1	1:C:2703:LEU:HD13	2.20	0.76
1:C:3097:GLU:O	1:C:3100:SER:OG	2.00	0.76
1:C:3249:LEU:HD23	1:C:3277:LEU:HD12	1.67	0.76
1:A:2679:PHE:CE1	1:A:2703:LEU:HD13	2.20	0.76
1:B:183:SER:O	1:B:186:SER:OG	2.03	0.76
1:D:3366:ARG:NE	1:D:3440:GLU:OE1	2.19	0.76
1:B:891:TRP:O	1:B:959:TYR:OH	2.04	0.76
1:B:3270:ILE:HG23	1:B:3338:LEU:HD13	1.67	0.76
1:B:3946:GLN:OE1	1:B:3949:ARG:NH2	2.20	0.76
1:D:183:SER:O	1:D:186:SER:OG	2.03	0.76
1:C:2747:ILE:HG21	1:C:2814:LYS:HG2	1.66	0.76
1:D:1269:CYS:SG	1:D:1563:GLN:NE2	2.57	0.75
1:D:3270:ILE:HG23	1:D:3338:LEU:HD13	1.67	0.75
1:A:1003:GLN:O	1:A:1016:ARG:NH2	2.19	0.75
1:D:972:LEU:O	1:D:1044:ARG:NH2	2.20	0.75
1:C:2196:ASN:OD1	1:C:2199:ARG:NH1	2.20	0.75
1:A:972:LEU:O	1:A:1044:ARG:NH2	2.20	0.75
1:B:4137:ARG:NH2	1:B:4199:GLU:OE2	2.18	0.75
1:D:2747:ILE:HG21	1:D:2814:LYS:HG2	1.66	0.75
1:A:3351:PRO:HA	1:A:3415:TYR:OH	1.84	0.75
1:B:872:GLU:HA	1:B:922:LEU:HD11	1.69	0.75
1:C:1276:THR:O	1:C:1279:SER:OG	2.03	0.75
1:A:3376:GLU:OE2	1:A:3448:SER:OG	2.03	0.75
1:D:872:GLU:HA	1:D:922:LEU:HD11	1.69	0.75
1:C:1263:THR:OG1	1:C:1266:THR:OG1	2.03	0.75
1:A:3946:GLN:OE1	1:A:3949:ARG:NH2	2.19	0.75
1:B:2751:LEU:HD22	1:B:2817:ILE:HD11	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:139:GLU:OE1	1:B:139:GLU:N	2.20	0.75
1:D:1276:THR:O	1:D:1279:SER:OG	2.03	0.75
1:D:1973:GLN:OE1	1:D:3641:LEU:N	2.18	0.75
1:D:4137:ARG:NH2	1:D:4199:GLU:OE2	2.18	0.75
1:C:1720:LEU:HD23	1:C:1851:MET:CE	2.16	0.75
1:A:139:GLU:OE1	1:A:139:GLU:N	2.20	0.75
1:A:3249:LEU:HD23	1:A:3277:LEU:HD12	1.67	0.75
1:B:879:HIS:CE1	1:B:906:CYS:HG	2.04	0.75
1:B:2196:ASN:OD1	1:B:2199:ARG:NH1	2.20	0.75
1:D:2196:ASN:OD1	1:D:2199:ARG:NH1	2.20	0.75
1:C:183:SER:O	1:C:186:SER:OG	2.03	0.75
1:C:872:GLU:HA	1:C:922:LEU:HD11	1.69	0.75
1:C:3946:GLN:OE1	1:C:3949:ARG:NH2	2.20	0.75
1:A:2196:ASN:OD1	1:A:2199:ARG:NH1	2.20	0.74
1:D:1720:LEU:HD23	1:D:1851:MET:CE	2.16	0.74
1:D:2481:LYS:O	1:D:2482:ASP:OD1	2.05	0.74
1:A:2751:LEU:HD22	1:A:2817:ILE:HD11	1.66	0.74
1:D:233:ILE:O	1:D:257:ARG:NH2	2.20	0.74
1:D:3946:GLN:OE1	1:D:3949:ARG:NH2	2.19	0.74
1:C:139:GLU:OE1	1:C:139:GLU:N	2.20	0.74
1:C:233:ILE:O	1:C:257:ARG:NH2	2.20	0.74
1:A:909:ASN:ND2	1:A:965:TYR:CE2	2.55	0.74
1:C:173:SER:HG	1:C:176:SER:HG	0.75	0.74
1:C:3141:THR:HG23	1:C:3196:ARG:HG3	1.69	0.74
1:C:3366:ARG:NE	1:C:3440:GLU:OE1	2.19	0.74
1:A:872:GLU:HA	1:A:922:LEU:HD11	1.69	0.74
1:D:620:LEU:O	1:D:624:ASN:ND2	2.21	0.74
1:C:972:LEU:O	1:C:1044:ARG:NH2	2.20	0.74
1:D:1241:SER:HA	1:D:1603:VAL:HG22	1.70	0.74
1:C:3366:ARG:NH2	1:C:3437:MET:HG2	2.02	0.74
1:C:4162:ASN:OD1	1:C:4163:PHE:N	2.21	0.74
1:B:3366:ARG:NH2	1:B:3437:MET:HG2	2.02	0.74
1:A:620:LEU:O	1:A:624:ASN:ND2	2.21	0.74
1:A:891:TRP:O	1:A:959:TYR:OH	2.04	0.74
1:B:1720:LEU:HD23	1:B:1851:MET:CE	2.16	0.74
1:B:3141:THR:HG23	1:B:3196:ARG:HG3	1.69	0.74
1:C:1241:SER:HA	1:C:1603:VAL:HG22	1.70	0.74
1:B:4162:ASN:OD1	1:B:4163:PHE:N	2.21	0.74
1:D:909:ASN:ND2	1:D:965:TYR:CE2	2.55	0.74
1:D:3366:ARG:NH2	1:D:3437:MET:HG2	2.02	0.74
1:C:2481:LYS:O	1:C:2482:ASP:OD1	2.05	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:233:ILE:O	1:A:257:ARG:NH2	2.20	0.74
1:A:4162:ASN:OD1	1:A:4163:PHE:N	2.21	0.74
1:B:909:ASN:ND2	1:B:965:TYR:CE2	2.55	0.74
1:B:972:LEU:O	1:B:1044:ARG:NH2	2.20	0.74
1:D:4162:ASN:OD1	1:D:4163:PHE:N	2.21	0.74
1:C:879:HIS:CE1	1:C:906:CYS:HG	2.05	0.74
1:C:909:ASN:ND2	1:C:965:TYR:CE2	2.55	0.74
1:A:1720:LEU:HD23	1:A:1851:MET:CE	2.16	0.73
1:A:3207:GLU:OE1	1:A:3207:GLU:N	2.21	0.73
1:A:4717:ASP:OD2	1:A:4723:LYS:NZ	2.21	0.73
1:B:233:ILE:O	1:B:257:ARG:NH2	2.20	0.73
1:B:3955:MET:HE1	1:B:4016:LEU:CA	2.18	0.73
1:D:891:TRP:O	1:D:959:TYR:OH	2.04	0.73
1:D:1617:THR:HG22	1:D:1628:VAL:HG12	1.70	0.73
1:D:4706:LEU:HD13	1:D:4740:LEU:HD21	1.70	0.73
1:A:669:ASP:OD2	1:A:788:LYS:NZ	2.21	0.73
1:A:3384:LYS:O	1:A:3387:ALA:N	2.22	0.73
1:B:3207:GLU:OE1	1:B:3207:GLU:N	2.21	0.73
1:B:2481:LYS:O	1:B:2482:ASP:OD1	2.05	0.73
1:D:2615:ARG:NH2	1:D:2664:PHE:O	2.22	0.73
1:A:1241:SER:HA	1:A:1603:VAL:HG22	1.70	0.73
1:B:2615:ARG:NH2	1:B:2664:PHE:O	2.22	0.73
1:C:310:LYS:O	1:C:350:HIS:NE2	2.21	0.73
1:C:4885:PHE:CE2	1:C:4897:ILE:HD11	2.24	0.73
1:A:310:LYS:O	1:A:350:HIS:NE2	2.21	0.73
1:A:3366:ARG:NH2	1:A:3437:MET:HG2	2.03	0.73
1:A:3955:MET:HE1	1:A:4016:LEU:CA	2.18	0.73
1:A:4885:PHE:CE2	1:A:4897:ILE:HD11	2.24	0.73
1:B:4885:PHE:CE2	1:B:4897:ILE:HD11	2.24	0.73
1:B:2667:THR:OG1	1:B:2671:GLU:OE2	2.07	0.73
1:B:3771:HIS:O	1:B:3815:LYS:NZ	2.21	0.73
1:B:4885:PHE:O	1:B:4889:VAL:HG22	1.89	0.73
1:D:4157:ASP:N	1:D:4161:ARG:HH12	1.87	0.73
1:C:620:LEU:O	1:C:624:ASN:ND2	2.21	0.73
1:C:2615:ARG:NH2	1:C:2664:PHE:O	2.22	0.73
1:A:2481:LYS:O	1:A:2482:ASP:OD1	2.05	0.73
1:B:1617:THR:HG22	1:B:1628:VAL:HG12	1.70	0.73
1:D:2667:THR:OG1	1:D:2671:GLU:OE2	2.07	0.73
1:A:3336:LYS:NZ	1:A:3462:ASN:OD1	2.22	0.73
1:A:3996:PHE:HD1	1:A:4016:LEU:HD11	1.54	0.73
1:A:4885:PHE:O	1:A:4889:VAL:HG22	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:620:LEU:O	1:B:624:ASN:ND2	2.21	0.73
1:B:4717:ASP:OD2	1:B:4723:LYS:NZ	2.21	0.73
1:A:2830:GLU:N	1:A:2830:GLU:OE1	2.22	0.73
1:A:3141:THR:HG23	1:A:3196:ARG:HG3	1.69	0.73
1:D:2830:GLU:N	1:D:2830:GLU:OE1	2.22	0.73
1:D:3384:LYS:O	1:D:3387:ALA:N	2.21	0.73
1:C:1617:THR:HG22	1:C:1628:VAL:HG12	1.70	0.73
1:A:2675:THR:HG21	1:A:2710:LEU:HD21	1.71	0.72
1:A:3270:ILE:HG21	1:A:3334:TRP:CE3	2.24	0.72
1:B:1241:SER:HA	1:B:1603:VAL:HG22	1.70	0.72
1:B:1263:THR:OG1	1:B:1266:THR:OG1	2.03	0.72
1:D:3141:THR:HG23	1:D:3196:ARG:HG3	1.69	0.72
1:D:3771:HIS:O	1:D:3815:LYS:NZ	2.21	0.72
1:D:4885:PHE:O	1:D:4889:VAL:HG22	1.89	0.72
1:A:2674:LEU:HD23	1:A:2677:LYS:NZ	2.04	0.72
1:D:139:GLU:N	1:D:139:GLU:OE1	2.20	0.72
1:D:4885:PHE:CE2	1:D:4897:ILE:HD11	2.24	0.72
1:B:3336:LYS:NZ	1:B:3462:ASN:OD1	2.22	0.72
1:B:3996:PHE:HD1	1:B:4016:LEU:HD11	1.54	0.72
1:D:1561:VAL:HG12	1:D:1562:ILE:HG23	1.70	0.72
1:B:669:ASP:OD2	1:B:788:LYS:NZ	2.21	0.72
1:B:4157:ASP:H	1:B:4161:ARG:HH12	1.36	0.72
1:A:2615:ARG:NH2	1:A:2664:PHE:O	2.22	0.72
1:A:3771:HIS:O	1:A:3815:LYS:NZ	2.21	0.72
1:A:4157:ASP:N	1:A:4161:ARG:HH12	1.87	0.72
1:B:1561:VAL:HG12	1:B:1562:ILE:HG23	1.70	0.72
1:B:2830:GLU:OE1	1:B:2830:GLU:N	2.22	0.72
1:D:2675:THR:HG21	1:D:2710:LEU:HD21	1.71	0.72
1:D:3955:MET:HE1	1:D:4016:LEU:CA	2.18	0.72
1:C:3771:HIS:O	1:C:3815:LYS:NZ	2.21	0.72
1:C:3955:MET:HE1	1:C:4016:LEU:CA	2.19	0.72
1:C:3996:PHE:HD1	1:C:4016:LEU:HD11	1.54	0.72
1:B:1102:VAL:HG11	1:B:1149:VAL:HG11	1.71	0.72
1:B:2674:LEU:HD23	1:B:2677:LYS:NZ	2.04	0.72
1:B:3384:LYS:O	1:B:3387:ALA:N	2.21	0.72
1:C:2674:LEU:HD23	1:C:2677:LYS:NZ	2.04	0.72
1:C:3324:VAL:HG11	1:C:3361:THR:HG22	1.71	0.72
1:C:4157:ASP:N	1:C:4161:ARG:HH12	1.87	0.72
1:A:4706:LEU:HD13	1:A:4740:LEU:HD21	1.70	0.72
1:D:2674:LEU:HD23	1:D:2677:LYS:NZ	2.04	0.72
1:C:669:ASP:OD2	1:C:788:LYS:NZ	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:310:LYS:O	1:B:350:HIS:NE2	2.21	0.72
1:B:2675:THR:HG21	1:B:2710:LEU:HD21	1.72	0.72
1:D:669:ASP:OD2	1:D:788:LYS:NZ	2.21	0.72
1:D:3207:GLU:N	1:D:3207:GLU:OE1	2.21	0.72
1:D:3336:LYS:NZ	1:D:3462:ASN:OD1	2.22	0.72
1:C:2830:GLU:OE1	1:C:2830:GLU:N	2.22	0.72
1:C:3336:LYS:NZ	1:C:3462:ASN:OD1	2.22	0.72
1:B:2890:LYS:O	1:B:2894:LEU:HD13	1.90	0.72
1:D:310:LYS:O	1:D:350:HIS:NE2	2.21	0.72
1:D:3020:THR:OG1	1:D:3023:LYS:O	2.07	0.72
1:D:3270:ILE:HG21	1:D:3334:TRP:CE3	2.24	0.72
1:D:3324:VAL:HG11	1:D:3361:THR:HG22	1.71	0.72
1:D:4717:ASP:OD2	1:D:4723:LYS:NZ	2.21	0.72
1:C:3270:ILE:HG21	1:C:3334:TRP:CE3	2.24	0.72
1:C:4157:ASP:H	1:C:4161:ARG:HH12	1.36	0.72
1:A:1561:VAL:HG12	1:A:1562:ILE:HG23	1.70	0.72
1:A:4747:SER:O	1:A:4751:THR:HG23	1.90	0.72
1:D:2609:ALA:O	1:D:2612[A]:ARG:NH1	2.23	0.72
1:C:4885:PHE:O	1:C:4889:VAL:HG22	1.89	0.72
1:B:3719:ASP:H	1:B:3793:MET:HE2	1.55	0.71
1:C:1102:VAL:HG11	1:C:1149:VAL:HG11	1.71	0.71
1:C:1561:VAL:HG12	1:C:1562:ILE:HG23	1.70	0.71
1:C:3207:GLU:OE1	1:C:3207:GLU:N	2.21	0.71
1:C:4747:SER:O	1:C:4751:THR:HG23	1.90	0.71
1:A:1263:THR:OG1	1:A:1266:THR:OG1	2.03	0.71
1:A:1617:THR:HG22	1:A:1628:VAL:HG12	1.70	0.71
1:A:2890:LYS:O	1:A:2894:LEU:HD13	1.90	0.71
1:B:4706:LEU:HD13	1:B:4740:LEU:HD21	1.70	0.71
1:D:1102:VAL:HG11	1:D:1149:VAL:HG11	1.71	0.71
1:D:3719:ASP:H	1:D:3793:MET:HE2	1.55	0.71
1:D:4747:SER:O	1:D:4751:THR:HG23	1.90	0.71
1:D:3996:PHE:HD1	1:D:4016:LEU:HD11	1.54	0.71
1:C:2667:THR:OG1	1:C:2671:GLU:OE2	2.07	0.71
1:C:4717:ASP:OD2	1:C:4723:LYS:NZ	2.21	0.71
1:B:4157:ASP:N	1:B:4161:ARG:HH12	1.87	0.71
1:B:4747:SER:O	1:B:4751:THR:HG23	1.90	0.71
1:C:3384:LYS:O	1:C:3387:ALA:N	2.22	0.71
1:A:874:LEU:HD22	1:A:1046:LEU:HD21	1.72	0.71
1:A:1102:VAL:HG11	1:A:1149:VAL:HG11	1.71	0.71
1:A:4839:MET:CE	1:D:4820:VAL:HG11	2.21	0.71
1:D:879:HIS:CE1	1:D:906:CYS:HG	2.09	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3365:LEU:HD11	1:A:3405:LEU:CD2	2.20	0.71
1:B:3324:VAL:HG11	1:B:3361:THR:HG22	1.71	0.71
1:D:4157:ASP:H	1:D:4161:ARG:HH12	1.36	0.71
1:C:3456:GLN:OE1	1:C:3499:ARG:NH2	2.24	0.71
1:C:4706:LEU:HD13	1:C:4740:LEU:HD21	1.70	0.71
1:A:236:ALA:O	1:A:237:ASP:OD1	2.09	0.71
1:A:3324:VAL:HG11	1:A:3361:THR:HG22	1.71	0.71
1:A:4157:ASP:H	1:A:4161:ARG:HH12	1.36	0.71
1:B:874:LEU:HD22	1:B:1046:LEU:HD21	1.73	0.71
1:B:2530:MET:SD	1:B:2554:LEU:HD22	2.31	0.71
1:B:3270:ILE:HG21	1:B:3334:TRP:CE3	2.24	0.71
1:B:3456:GLN:OE1	1:B:3499:ARG:NH2	2.24	0.71
1:C:236:ALA:O	1:C:237:ASP:OD1	2.09	0.71
1:A:633:LEU:HD22	1:A:1639:LEU:HD21	1.73	0.71
1:C:2675:THR:HG21	1:C:2710:LEU:HD21	1.72	0.71
1:A:2530:MET:SD	1:A:2554:LEU:HD22	2.31	0.71
2:H:77:SER:OG	2:H:79:ASP:OD1	2.09	0.71
1:B:236:ALA:O	1:B:237:ASP:OD1	2.09	0.71
1:D:236:ALA:O	1:D:237:ASP:OD1	2.09	0.71
1:C:577:ILE:O	1:C:579:GLN:NE2	2.24	0.71
1:C:2530:MET:SD	1:C:2554:LEU:HD22	2.31	0.71
1:C:2609:ALA:O	1:C:2612[A]:ARG:NH1	2.23	0.71
1:A:2667:THR:OG1	1:A:2671:GLU:OE2	2.07	0.70
1:A:3456:GLN:OE1	1:A:3499:ARG:NH2	2.24	0.70
1:B:2609:ALA:O	1:B:2612[A]:ARG:NH1	2.23	0.70
1:D:577:ILE:O	1:D:579:GLN:NE2	2.24	0.70
1:D:3456:GLN:OE1	1:D:3499:ARG:NH2	2.24	0.70
1:A:3719:ASP:H	1:A:3793:MET:CE	2.05	0.70
1:B:973:SER:O	1:B:976:ARG:NH1	2.24	0.70
1:B:3719:ASP:H	1:B:3793:MET:CE	2.05	0.70
1:B:4099:SER:O	1:B:4101:LYS:NZ	2.21	0.70
1:C:1290:ARG:HD2	1:C:1549:PHE:CB	2.21	0.70
1:B:577:ILE:O	1:B:579:GLN:NE2	2.24	0.70
1:B:1290:ARG:HD2	1:B:1549:PHE:CB	2.21	0.70
1:D:1263:THR:OG1	1:D:1266:THR:OG1	2.03	0.70
1:D:1754:GLY:O	1:D:1758:ARG:N	2.24	0.70
1:C:3719:ASP:H	1:C:3793:MET:CE	2.05	0.70
1:A:1671:ARG:NH1	1:A:1710:GLY:O	2.24	0.70
1:C:2890:LYS:O	1:C:2894:LEU:HD13	1.90	0.70
1:A:4241:THR:HG22	1:A:4245:MET:SD	2.32	0.70
1:B:4241:THR:HG22	1:B:4245:MET:SD	2.32	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:973:SER:O	1:D:976:ARG:NH1	2.24	0.70
1:D:1671:ARG:NH1	1:D:1710:GLY:O	2.24	0.70
1:D:2890:LYS:O	1:D:2894:LEU:HD13	1.90	0.70
1:D:3719:ASP:H	1:D:3793:MET:CE	2.05	0.70
1:C:973:SER:O	1:C:976:ARG:NH1	2.24	0.70
2:E:77:SER:OG	2:E:79:ASP:OD1	2.09	0.70
1:B:3135:ALA:O	1:B:3139:VAL:HG22	1.92	0.70
1:D:633:LEU:HD22	1:D:1639:LEU:HD21	1.73	0.70
1:A:577:ILE:O	1:A:579:GLN:NE2	2.24	0.70
1:A:1754:GLY:O	1:A:1758:ARG:N	2.24	0.70
1:B:1671:ARG:NH1	1:B:1710:GLY:O	2.25	0.70
1:D:3365:LEU:HD11	1:D:3405:LEU:CD2	2.20	0.70
1:C:3135:ALA:O	1:C:3139:VAL:HG22	1.92	0.70
1:A:76:ARG:NH1	1:D:3844:LEU:HD13	2.07	0.70
1:A:3719:ASP:H	1:A:3793:MET:HE2	1.56	0.70
1:A:4879:MET:HB2	1:D:4578:LEU:O	1.91	0.70
1:B:504:ALA:HB2	1:B:512:ALA:HB2	1.74	0.70
1:B:1153:ILE:HD11	1:B:1155:LEU:HD21	1.73	0.70
1:D:2742:THR:HG21	1:D:2814:LYS:HB3	1.74	0.70
1:D:3668:SER:OG	1:D:3731:LYS:NZ	2.25	0.70
1:A:973:SER:O	1:A:976:ARG:NH1	2.24	0.70
1:B:173:SER:HG	1:B:176:SER:HG	0.72	0.70
1:B:1754:GLY:O	1:B:1758:ARG:N	2.24	0.70
1:B:3365:LEU:HD11	1:B:3405:LEU:CD2	2.20	0.70
1:D:978:THR:O	1:D:982:THR:HG23	1.92	0.70
1:D:2530:MET:SD	1:D:2554:LEU:HD22	2.31	0.70
1:D:4755:GLU:OE2	1:D:4757:LYS:NZ	2.24	0.70
1:C:1754:GLY:O	1:C:1758:ARG:N	2.24	0.70
1:C:2742:THR:HG21	1:C:2814:LYS:HB3	1.74	0.70
1:C:4070:ASP:OD1	1:C:4071:ILE:N	2.25	0.70
1:A:1290:ARG:HD2	1:A:1549:PHE:CB	2.21	0.69
1:A:504:ALA:HB2	1:A:512:ALA:HB2	1.74	0.69
1:A:1153:ILE:HD11	1:A:1155:LEU:HD21	1.73	0.69
1:A:4070:ASP:OD1	1:A:4071:ILE:N	2.25	0.69
2:F:77:SER:OG	2:F:79:ASP:OD1	2.09	0.69
1:D:4070:ASP:OD1	1:D:4071:ILE:N	2.25	0.69
1:C:874:LEU:HD22	1:C:1046:LEU:HD21	1.73	0.69
1:C:954:LYS:NZ	1:C:966:LYS:O	2.26	0.69
1:C:978:THR:O	1:C:982:THR:HG23	1.92	0.69
1:C:1153:ILE:HD11	1:C:1155:LEU:HD21	1.73	0.69
1:C:1671:ARG:NH1	1:C:1710:GLY:O	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4099:SER:O	1:A:4101:LYS:NZ	2.21	0.69
1:D:874:LEU:HD22	1:D:1046:LEU:HD21	1.72	0.69
1:D:1290:ARG:HD2	1:D:1549:PHE:CB	2.21	0.69
1:C:3719:ASP:H	1:C:3793:MET:HE2	1.55	0.69
1:C:4241:THR:HG22	1:C:4245:MET:SD	2.32	0.69
1:A:4755:GLU:OE2	1:A:4757:LYS:NZ	2.24	0.69
1:B:633:LEU:HD22	1:B:1639:LEU:HD21	1.73	0.69
1:B:1577:ALA:O	1:B:1584:ARG:NH1	2.26	0.69
1:D:3135:ALA:O	1:D:3139:VAL:HG22	1.92	0.69
1:A:1499:ASP:OD1	1:A:1500:PHE:N	2.26	0.69
1:A:2609:ALA:O	1:A:2612[A]:ARG:NH1	2.23	0.69
1:B:4755:GLU:OE2	1:B:4757:LYS:NZ	2.24	0.69
1:D:1499:ASP:OD1	1:D:1500:PHE:N	2.26	0.69
1:D:2582:MET:HE1	1:D:2610:LEU:HD13	1.75	0.69
1:C:1499:ASP:OD1	1:C:1500:PHE:N	2.26	0.69
1:A:1112:ASP:OD1	1:A:1113:VAL:HG23	1.93	0.69
1:A:2742:THR:HG21	1:A:2814:LYS:HB3	1.74	0.69
1:B:2243:SER:OG	1:B:3861:GLU:OE2	2.11	0.69
1:A:954:LYS:NZ	1:A:966:LYS:O	2.26	0.69
1:A:1577:ALA:O	1:A:1584:ARG:NH1	2.26	0.69
1:A:3898:ASP:OD1	1:A:3899:PHE:N	2.26	0.69
1:B:1499:ASP:OD1	1:B:1500:PHE:N	2.26	0.69
1:D:1569:GLN:HB2	1:D:1572:ILE:HD13	1.75	0.69
1:D:4241:THR:HG22	1:D:4245:MET:SD	2.32	0.69
1:C:1112:ASP:OD1	1:C:1113:VAL:HG23	1.93	0.69
1:C:1569:GLN:HB2	1:C:1572:ILE:HD13	1.75	0.69
1:C:3779:VAL:HG13	1:C:3797:THR:HG22	1.75	0.69
2:G:21:THR:OG1	2:G:49:MET:SD	2.47	0.69
2:F:21:THR:OG1	2:F:49:MET:SD	2.47	0.69
1:B:1112:ASP:OD1	1:B:1113:VAL:HG23	1.93	0.69
1:B:3020:THR:OG1	1:B:3023:LYS:O	2.07	0.69
1:B:4070:ASP:OD1	1:B:4071:ILE:N	2.25	0.69
1:D:954:LYS:NZ	1:D:966:LYS:O	2.26	0.69
1:D:3779:VAL:HG13	1:D:3797:THR:HG22	1.75	0.69
1:C:633:LEU:HD22	1:C:1639:LEU:HD21	1.73	0.69
1:A:3135:ALA:O	1:A:3139:VAL:HG22	1.92	0.69
1:B:954:LYS:NZ	1:B:966:LYS:O	2.26	0.69
1:C:504:ALA:HB2	1:C:512:ALA:HB2	1.74	0.69
1:C:1931:LEU:HD12	1:C:1939:MET:HE1	1.74	0.69
1:C:2243:SER:OG	1:C:3861:GLU:OE2	2.11	0.69
1:A:2668:SER:N	1:A:2671:GLU:OE2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1112:ASP:OD1	1:D:1113:VAL:HG23	1.93	0.68
1:D:2035:HIS:ND1	1:D:3657:TYR:OH	2.17	0.68
1:A:4820:VAL:HG11	1:B:4839:MET:CE	2.23	0.68
1:B:2668:SER:N	1:B:2671:GLU:OE2	2.26	0.68
1:B:3668:SER:OG	1:B:3731:LYS:NZ	2.25	0.68
1:D:1153:ILE:HD11	1:D:1155:LEU:HD21	1.73	0.68
1:D:4099:SER:O	1:D:4101:LYS:NZ	2.21	0.68
2:G:77:SER:OG	2:G:79:ASP:OD1	2.09	0.68
1:B:2742:THR:HG21	1:B:2814:LYS:HB3	1.74	0.68
1:D:4818:MET:O	1:D:4824:ARG:NH1	2.27	0.68
1:C:4090:LYS:HE2	1:C:4112:LEU:HD22	1.76	0.68
1:A:3779:VAL:HG13	1:A:3797:THR:HG22	1.75	0.68
1:A:3874:VAL:HG11	1:A:3950:ASN:HD21	1.59	0.68
1:B:1569:GLN:HB2	1:B:1572:ILE:HD13	1.75	0.68
1:B:4578:LEU:O	1:C:4879:MET:HB2	1.93	0.68
1:C:2668:SER:N	1:C:2671:GLU:OE2	2.26	0.68
1:A:1079:LYS:NZ	1:A:1107:PRO:O	2.27	0.68
1:B:1749:PRO:O	1:B:1758:ARG:NE	2.27	0.68
1:D:76:ARG:NH1	1:C:3844:LEU:HD13	2.07	0.68
1:D:3874:VAL:HG11	1:D:3950:ASN:HD21	1.59	0.68
1:C:2166:LEU:HD11	1:C:2206:THR:HG23	1.76	0.68
1:C:3141:THR:HG1	1:C:3193:CYS:HG	1.36	0.68
1:C:4818:MET:O	1:C:4824:ARG:NH1	2.27	0.68
1:A:978:THR:O	1:A:982:THR:HG23	1.92	0.68
1:A:3598:GLU:O	1:A:3602:VAL:HG23	1.94	0.68
1:B:978:THR:O	1:B:982:THR:HG23	1.92	0.68
1:D:1079:LYS:NZ	1:D:1107:PRO:O	2.27	0.68
1:D:1749:PRO:O	1:D:1758:ARG:NE	2.27	0.68
1:D:4090:LYS:HE2	1:D:4112:LEU:HD22	1.76	0.68
1:C:3020:THR:OG1	1:C:3023:LYS:O	2.07	0.68
1:C:3611:HIS:ND1	1:C:3611:HIS:O	2.27	0.68
1:C:3898:ASP:OD1	1:C:3899:PHE:N	2.26	0.68
1:A:2440:MET:SD	1:A:2441:HIS:N	2.67	0.68
1:B:3248:ARG:NH1	1:B:3252:ASP:OD1	2.27	0.68
1:B:3874:VAL:HG11	1:B:3950:ASN:HD21	1.59	0.68
1:B:4711:PHE:HB3	1:B:4712:PRO:HD3	1.76	0.68
1:B:4818:MET:O	1:B:4824:ARG:NH1	2.27	0.68
1:C:3248:ARG:NH1	1:C:3252:ASP:OD1	2.27	0.68
1:A:1749:PRO:O	1:A:1758:ARG:NE	2.27	0.68
1:A:4818:MET:O	1:A:4824:ARG:NH1	2.27	0.68
1:D:3230:LEU:HD12	1:D:3232:LEU:HD13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3230:LEU:HD12	1:C:3232:LEU:HD13	1.76	0.68
1:C:3598:GLU:O	1:C:3602:VAL:HG23	1.94	0.68
1:A:1569:GLN:HB2	1:A:1572:ILE:HD13	1.75	0.68
1:A:4743:MET:HE2	1:A:4748:LEU:HD11	1.76	0.68
1:B:2440:MET:SD	1:B:2441:HIS:N	2.67	0.68
1:C:3788:GLY:N	1:C:3831:SER:OG	2.27	0.68
1:A:913:LEU:O	1:A:918:ARG:NH2	2.27	0.67
1:B:971:ASP:O	1:B:974:HIS:ND1	2.27	0.67
1:B:3141:THR:HG1	1:B:3193:CYS:HG	1.31	0.67
1:B:3598:GLU:O	1:B:3602:VAL:HG23	1.94	0.67
1:B:3611:HIS:ND1	1:B:3611:HIS:O	2.27	0.67
1:D:504:ALA:HB2	1:D:512:ALA:HB2	1.74	0.67
1:B:1079:LYS:NZ	1:B:1107:PRO:O	2.27	0.67
1:D:2166:LEU:HD11	1:D:2206:THR:HG23	1.76	0.67
1:D:2243:SER:OG	1:D:3861:GLU:OE2	2.11	0.67
1:D:3898:ASP:OD1	1:D:3899:PHE:N	2.26	0.67
1:C:913:LEU:O	1:C:918:ARG:NH2	2.27	0.67
1:C:1749:PRO:O	1:C:1758:ARG:NE	2.27	0.67
1:C:2274:ASP:OD1	1:C:2275:VAL:N	2.28	0.67
1:C:3668:SER:OG	1:C:3731:LYS:NZ	2.25	0.67
1:A:2274:ASP:OD1	1:A:2275:VAL:N	2.28	0.67
1:D:3248:ARG:NH1	1:D:3252:ASP:OD1	2.27	0.67
1:D:3788:GLY:N	1:D:3831:SER:OG	2.27	0.67
1:A:2393:ASP:OD1	1:A:2418:LEU:N	2.28	0.67
2:E:21:THR:OG1	2:E:49:MET:SD	2.47	0.67
1:B:3898:ASP:OD1	1:B:3899:PHE:N	2.26	0.67
1:D:857:ASP:OD1	1:D:859:VAL:HG22	1.95	0.67
1:D:913:LEU:O	1:D:918:ARG:NH2	2.27	0.67
1:D:2440:MET:SD	1:D:2441:HIS:N	2.67	0.67
1:D:3611:HIS:ND1	1:D:3611:HIS:O	2.27	0.67
1:C:2440:MET:SD	1:C:2441:HIS:N	2.67	0.67
1:A:857:ASP:OD1	1:A:859:VAL:HG22	1.95	0.67
1:A:971:ASP:O	1:A:974:HIS:ND1	2.27	0.67
1:B:2166:LEU:HD11	1:B:2206:THR:HG23	1.76	0.67
1:D:2668:SER:N	1:D:2671:GLU:OE2	2.26	0.67
1:D:4879:MET:HB2	1:C:4578:LEU:O	1.93	0.67
1:A:3230:LEU:HD12	1:A:3232:LEU:HD13	1.76	0.67
1:B:2274:ASP:OD1	1:B:2275:VAL:N	2.28	0.67
1:B:3230:LEU:HD12	1:B:3232:LEU:HD13	1.76	0.67
1:C:3285:TRP:NE1	1:C:3290:GLU:OE1	2.28	0.67
1:C:4711:PHE:HB3	1:C:4712:PRO:HD3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2243:SER:OG	1:A:3861:GLU:OE2	2.11	0.67
1:A:3611:HIS:ND1	1:A:3611:HIS:O	2.27	0.67
1:B:2437:ALA:O	1:B:2508:ARG:NH2	2.28	0.67
1:B:3779:VAL:HG13	1:B:3797:THR:HG22	1.75	0.67
1:B:3844:LEU:HD13	1:C:76:ARG:NH1	2.09	0.67
1:D:2274:ASP:OD1	1:D:2275:VAL:N	2.28	0.67
1:C:2464:ASP:OD1	1:C:2465:ASP:N	2.28	0.67
2:H:21:THR:OG1	2:H:49:MET:SD	2.47	0.67
1:B:3285:TRP:NE1	1:B:3290:GLU:OE1	2.28	0.67
1:D:1579:MET:HE2	1:D:1580:PHE:HE1	1.59	0.67
1:D:2464:ASP:OD1	1:D:2465:ASP:N	2.28	0.67
1:C:971:ASP:O	1:C:974:HIS:ND1	2.27	0.67
1:C:2932:MET:HG3	1:C:2933:ASN:N	2.10	0.67
1:A:1141:ARG:CB	1:D:3479:ALA:HB1	2.25	0.67
1:A:2437:ALA:O	1:A:2508:ARG:NH2	2.28	0.67
1:A:2582:MET:HE3	1:A:2610:LEU:HD13	1.77	0.67
1:A:3788:GLY:N	1:A:3831:SER:OG	2.27	0.67
1:A:4577:LEU:HD21	1:A:4807:PHE:HD1	1.60	0.67
1:A:4711:PHE:HB3	1:A:4712:PRO:HD3	1.75	0.67
1:D:2437:ALA:O	1:D:2508:ARG:NH2	2.28	0.67
1:D:3598:GLU:O	1:D:3602:VAL:HG23	1.94	0.67
1:A:173:SER:HG	1:A:176:SER:HG	0.69	0.67
1:A:2674:LEU:HD23	1:A:2677:LYS:HZ1	1.59	0.67
1:A:4090:LYS:HE2	1:A:4112:LEU:HD22	1.76	0.67
1:B:4090:LYS:HE2	1:B:4112:LEU:HD22	1.76	0.67
1:D:2932:MET:HG3	1:D:2933:ASN:N	2.10	0.67
1:C:857:ASP:OD1	1:C:859:VAL:HG22	1.95	0.67
1:C:1079:LYS:NZ	1:C:1107:PRO:O	2.27	0.67
1:C:3365:LEU:HD11	1:C:3405:LEU:CD2	2.20	0.67
1:A:2368:LEU:HD21	1:A:2376:LEU:HB2	1.77	0.66
1:A:2520:HIS:O	1:A:2524:VAL:HG22	1.95	0.66
1:A:3668:SER:OG	1:A:3731:LYS:NZ	2.25	0.66
1:B:2393:ASP:OD1	1:B:2418:LEU:N	2.28	0.66
1:D:971:ASP:O	1:D:974:HIS:ND1	2.27	0.66
1:D:2393:ASP:OD1	1:D:2418:LEU:N	2.28	0.66
1:D:3996:PHE:CD1	1:D:4016:LEU:HD11	2.31	0.66
1:D:4711:PHE:HB3	1:D:4712:PRO:HD3	1.75	0.66
1:D:4839:MET:CE	1:C:4820:VAL:HG11	2.25	0.66
1:C:1286:MET:HE2	1:C:1555:LEU:HD12	1.76	0.66
1:C:3996:PHE:CD1	1:C:4016:LEU:HD11	2.31	0.66
1:A:981:GLN:O	1:A:985:VAL:HG23	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3248:ARG:NH1	1:A:3252:ASP:OD1	2.27	0.66
1:B:981:GLN:O	1:B:985:VAL:HG23	1.95	0.66
1:B:3788:GLY:N	1:B:3831:SER:OG	2.27	0.66
1:D:981:GLN:O	1:D:985:VAL:HG23	1.95	0.66
1:C:3874:VAL:HG11	1:C:3950:ASN:HD21	1.59	0.66
1:C:4755:GLU:OE2	1:C:4757:LYS:NZ	2.24	0.66
1:A:493:ARG:O	1:A:496:VAL:HG12	1.96	0.66
1:A:2166:LEU:HD11	1:A:2206:THR:HG23	1.76	0.66
2:F:84:ALA:HA	2:F:94:HIS:CE1	2.31	0.66
1:B:913:LEU:O	1:B:918:ARG:NH2	2.27	0.66
1:B:3996:PHE:CD1	1:B:4016:LEU:HD11	2.31	0.66
1:C:186:SER:OG	1:C:188:GLU:O	2.14	0.66
1:A:1579:MET:HE2	1:A:1580:PHE:HE1	1.59	0.66
1:A:3996:PHE:CD1	1:A:4016:LEU:HD11	2.31	0.66
1:D:1577:ALA:O	1:D:1584:ARG:NH1	2.26	0.66
1:D:2593:ARG:O	1:D:2594:SER:OG	2.14	0.66
1:C:2393:ASP:OD1	1:C:2418:LEU:N	2.28	0.66
1:A:3842:LEU:HD13	1:A:3933:PHE:CE2	2.31	0.66
2:G:84:ALA:HA	2:G:94:HIS:CE1	2.31	0.66
1:C:3842:LEU:HD13	1:C:3933:PHE:CE2	2.31	0.66
1:A:3247:ASP:OD1	1:A:3248:ARG:N	2.29	0.66
1:B:2368:LEU:HD21	1:B:2376:LEU:HB2	1.77	0.66
1:D:659:TYR:OH	1:D:807:GLY:O	2.11	0.66
1:D:4027:LEU:HB3	1:D:4044:MET:HE1	1.77	0.66
1:C:981:GLN:O	1:C:985:VAL:HG23	1.95	0.66
1:A:4041:ALA:O	1:A:4045:VAL:HG23	1.95	0.66
1:B:4743:MET:HE2	1:B:4748:LEU:HD11	1.78	0.66
1:B:4820:VAL:HG11	1:C:4839:MET:CE	2.25	0.66
1:D:2368:LEU:HD21	1:D:2376:LEU:HB2	1.77	0.66
1:D:4743:MET:HE2	1:D:4748:LEU:HD11	1.78	0.66
1:C:493:ARG:O	1:C:496:VAL:HG12	1.96	0.66
1:C:2437:ALA:O	1:C:2508:ARG:NH2	2.28	0.66
1:C:2601:ASP:OD1	1:C:2602:VAL:N	2.29	0.66
1:A:2464:ASP:OD1	1:A:2465:ASP:N	2.28	0.66
1:A:3579:LEU:HD22	1:A:3582:ARG:HG2	1.78	0.66
1:A:4768:LEU:HA	1:A:4771:ILE:HD12	1.78	0.66
1:B:2464:ASP:OD1	1:B:2465:ASP:N	2.28	0.66
1:B:3842:LEU:HD13	1:B:3933:PHE:CE2	2.31	0.66
1:D:231:LEU:HD11	1:D:245:VAL:HG12	1.78	0.66
1:C:2520:HIS:O	1:C:2524:VAL:HG22	1.95	0.66
1:C:4768:LEU:HA	1:C:4771:ILE:HD12	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:231:LEU:HD11	1:A:245:VAL:HG12	1.78	0.66
1:A:3285:TRP:NE1	1:A:3290:GLU:OE1	2.28	0.66
2:E:84:ALA:HA	2:E:94:HIS:CE1	2.31	0.66
1:B:186:SER:OG	1:B:188:GLU:O	2.14	0.66
1:B:1008:SER:OG	1:B:1010:VAL:O	2.09	0.66
1:B:4041:ALA:O	1:B:4045:VAL:HG23	1.95	0.66
1:C:1577:ALA:O	1:C:1584:ARG:NH1	2.26	0.66
1:C:3247:ASP:OD1	1:C:3248:ARG:N	2.29	0.66
1:A:2790:MET:SD	1:A:2791:LEU:HD22	2.36	0.66
2:H:84:ALA:HA	2:H:94:HIS:CE1	2.31	0.66
1:D:3141:THR:HG1	1:D:3193:CYS:HG	1.37	0.66
1:D:3842:LEU:HD13	1:D:3933:PHE:CE2	2.31	0.66
1:C:3875:MET:HE3	1:C:3953:LYS:HG3	1.78	0.66
1:A:1950:GLU:OE2	1:A:2041:HIS:NE2	2.30	0.65
1:B:857:ASP:OD1	1:B:859:VAL:HG22	1.95	0.65
1:B:2520:HIS:O	1:B:2524:VAL:HG22	1.95	0.65
1:D:493:ARG:O	1:D:496:VAL:HG12	1.96	0.65
1:C:2368:LEU:HD21	1:C:2376:LEU:HB2	1.77	0.65
1:C:4027:LEU:HB3	1:C:4044:MET:HE1	1.77	0.65
1:C:4099:SER:O	1:C:4101:LYS:NZ	2.21	0.65
1:A:2932:MET:HG3	1:A:2933:ASN:N	2.10	0.65
1:B:2601:ASP:OD1	1:B:2602:VAL:N	2.29	0.65
1:B:2790:MET:SD	1:B:2791:LEU:HD22	2.36	0.65
1:B:3247:ASP:OD1	1:B:3248:ARG:N	2.29	0.65
1:B:3579:LEU:HD22	1:B:3582:ARG:HG2	1.78	0.65
1:D:2601:ASP:OD1	1:D:2602:VAL:N	2.29	0.65
1:D:2687:ALA:HB1	1:D:2966:TRP:CH2	2.31	0.65
1:D:2758:PHE:O	1:D:2762:THR:OG1	2.10	0.65
1:D:3285:TRP:NE1	1:D:3290:GLU:OE1	2.28	0.65
1:D:4768:LEU:HA	1:D:4771:ILE:HD12	1.78	0.65
1:C:1950:GLU:OE2	1:C:2041:HIS:NE2	2.30	0.65
1:C:2687:ALA:HB1	1:C:2966:TRP:CH2	2.31	0.65
1:A:2601:ASP:OD1	1:A:2602:VAL:N	2.29	0.65
1:A:3354:LEU:HD12	1:A:3415:TYR:CE2	2.31	0.65
1:B:1950:GLU:OE2	1:B:2041:HIS:NE2	2.30	0.65
1:B:2878:LEU:HG	1:B:2882:TYR:CZ	2.32	0.65
1:B:3354:LEU:HD12	1:B:3415:TYR:CE2	2.31	0.65
1:D:2878:LEU:HG	1:D:2882:TYR:CZ	2.32	0.65
1:D:4577:LEU:HD21	1:D:4807:PHE:HD1	1.61	0.65
1:C:3354:LEU:HD12	1:C:3415:TYR:CE2	2.32	0.65
1:B:493:ARG:O	1:B:496:VAL:HG12	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1255:TYR:O	1:B:1275:ARG:NH2	2.30	0.65
1:B:3875:MET:HE3	1:B:3953:LYS:HG3	1.78	0.65
1:B:4768:LEU:HA	1:B:4771:ILE:HD12	1.78	0.65
1:D:1084:GLN:NE2	1:D:1186:ASP:O	2.30	0.65
1:C:4041:ALA:O	1:C:4045:VAL:HG23	1.95	0.65
1:A:2878:LEU:HG	1:A:2882:TYR:CZ	2.32	0.65
1:B:4577:LEU:HD21	1:B:4807:PHE:HD1	1.60	0.65
1:D:1950:GLU:OE2	1:D:2041:HIS:NE2	2.30	0.65
1:D:2538:THR:O	1:D:2542:SER:N	2.30	0.65
1:D:4041:ALA:O	1:D:4045:VAL:HG23	1.95	0.65
1:A:1255:TYR:O	1:A:1275:ARG:NH2	2.30	0.65
2:H:1:GLY:O	2:H:3:GLN:NE2	2.30	0.65
1:D:1109:LEU:HD21	1:D:1115:LEU:CD2	2.27	0.65
1:D:2520:HIS:O	1:D:2524:VAL:HG22	1.95	0.65
1:D:3566:SER:OG	1:D:3568:SER:OG	1.98	0.65
1:D:4219:PHE:O	1:D:4223:ASN:ND2	2.29	0.65
1:A:2593:ARG:O	1:A:2594:SER:OG	2.14	0.65
1:A:3379:LEU:HD13	1:A:3391:GLU:OE1	1.97	0.65
1:B:2816:MET:HG2	1:B:2878:LEU:HD11	1.79	0.65
1:B:4007:SER:OG	1:B:4131:ARG:NH1	2.30	0.65
1:D:186:SER:OG	1:D:188:GLU:O	2.14	0.65
1:D:2790:MET:SD	1:D:2791:LEU:HD22	2.36	0.65
1:D:3427:PRO:HD3	1:D:3579:LEU:HD21	1.79	0.65
1:C:1579:MET:HE2	1:C:1580:PHE:HE1	1.60	0.65
1:A:2816:MET:HG2	1:A:2878:LEU:HD11	1.79	0.65
1:B:162:LYS:O	1:B:164:ARG:NH1	2.30	0.65
1:D:615:ARG:NH2	1:D:1676:LEU:O	2.28	0.65
1:D:4007:SER:OG	1:D:4131:ARG:NH1	2.30	0.65
1:C:2816:MET:HG2	1:C:2878:LEU:HD11	1.79	0.65
1:C:3579:LEU:HD22	1:C:3582:ARG:HG2	1.77	0.65
1:A:186:SER:OG	1:A:188:GLU:O	2.14	0.65
1:B:2687:ALA:HB1	1:B:2966:TRP:CH2	2.31	0.65
1:B:3052:HIS:HE2	1:B:3128:ASN:CG	2.01	0.65
1:D:2816:MET:HG2	1:D:2878:LEU:HD11	1.79	0.65
1:C:231:LEU:HD11	1:C:245:VAL:HG12	1.78	0.65
1:C:1084:GLN:NE2	1:C:1186:ASP:O	2.30	0.65
1:C:1109:LEU:HD21	1:C:1115:LEU:CD2	2.27	0.65
1:C:2593:ARG:O	1:C:2594:SER:OG	2.14	0.65
1:A:3875:MET:HE3	1:A:3953:LYS:HG3	1.79	0.65
1:B:1084:GLN:NE2	1:B:1186:ASP:O	2.30	0.65
1:B:2577:ILE:HG13	1:B:2578:MET:SD	2.38	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3427:PRO:HD3	1:B:3579:LEU:HD21	1.79	0.65
1:B:4027:LEU:HB3	1:B:4044:MET:HE1	1.79	0.65
1:D:3410:PRO:HB3	1:D:3469:PHE:HE2	1.61	0.65
1:A:683:ARG:NH1	1:A:707:VAL:O	2.29	0.64
1:A:2687:ALA:HB1	1:A:2966:TRP:CH2	2.31	0.64
2:E:1:GLY:O	2:E:3:GLN:NE2	2.30	0.64
1:B:1435:TYR:HH	1:B:1564:PHE:HD2	1.43	0.64
1:B:2932:MET:HG3	1:B:2933:ASN:N	2.10	0.64
1:B:3729:MET:HE2	1:B:3770:LEU:HD22	1.79	0.64
1:D:881:LEU:O	1:D:885:THR:HG23	1.97	0.64
1:C:3410:PRO:HB3	1:C:3469:PHE:HE2	1.61	0.64
1:A:2538:THR:O	1:A:2542:SER:N	2.30	0.64
1:B:881:LEU:O	1:B:885:THR:HG23	1.97	0.64
1:B:2598:ALA:O	1:B:2602:VAL:HG23	1.97	0.64
1:B:4219:PHE:O	1:B:4223:ASN:ND2	2.29	0.64
1:D:1286:MET:HE2	1:D:1555:LEU:HD12	1.78	0.64
1:C:162:LYS:O	1:C:164:ARG:NH1	2.30	0.64
1:C:2538:THR:O	1:C:2542:SER:N	2.30	0.64
1:C:2577:ILE:HG13	1:C:2578:MET:SD	2.38	0.64
1:A:881:LEU:O	1:A:885:THR:HG23	1.97	0.64
2:F:1:GLY:O	2:F:3:GLN:NE2	2.30	0.64
1:B:2758:PHE:CE2	1:B:2809:ILE:HD12	2.33	0.64
1:D:2598:ALA:O	1:D:2602:VAL:HG23	1.97	0.64
1:D:2758:PHE:CE2	1:D:2809:ILE:HD12	2.33	0.64
1:D:3354:LEU:HD12	1:D:3415:TYR:CE2	2.31	0.64
1:D:3875:MET:HE3	1:D:3953:LYS:HG3	1.79	0.64
1:C:2758:PHE:CE2	1:C:2809:ILE:HD12	2.33	0.64
1:C:2790:MET:SD	1:C:2791:LEU:HD22	2.36	0.64
1:A:1109:LEU:HD21	1:A:1115:LEU:CD2	2.27	0.64
1:A:3410:PRO:HB3	1:A:3469:PHE:HE2	1.61	0.64
1:A:4007:SER:OG	1:A:4131:ARG:NH1	2.30	0.64
1:A:4219:PHE:O	1:A:4223:ASN:ND2	2.29	0.64
1:B:1441:ALA:N	1:B:1513:ASP:OD1	2.31	0.64
1:D:2577:ILE:HG13	1:D:2578:MET:SD	2.38	0.64
1:D:4231:MET:O	1:D:4235:VAL:HG23	1.98	0.64
2:G:34:LYS:HE2	1:C:629:ARG:HB2	1.78	0.64
1:B:231:LEU:HD11	1:B:245:VAL:HG12	1.78	0.64
1:B:3410:PRO:HB3	1:B:3469:PHE:HE2	1.61	0.64
1:C:2878:LEU:HG	1:C:2882:TYR:CZ	2.32	0.64
1:C:3051:ARG:O	1:C:3053:ARG:NE	2.31	0.64
1:C:4577:LEU:HD21	1:C:4807:PHE:HD1	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2758:PHE:CE2	1:A:2809:ILE:HD12	2.33	0.64
1:B:1109:LEU:HD21	1:B:1115:LEU:CD2	2.27	0.64
1:C:881:LEU:O	1:C:885:THR:HG23	1.97	0.64
1:C:4007:SER:OG	1:C:4131:ARG:NH1	2.30	0.64
1:A:2577:ILE:HG13	1:A:2578:MET:SD	2.38	0.64
1:A:4231:MET:O	1:A:4235:VAL:HG23	1.98	0.64
1:B:2974:ILE:CD1	1:B:3049:LEU:HD12	2.28	0.64
1:D:2267:MET:HE3	1:D:2271:THR:HG22	1.80	0.64
1:D:3247:ASP:OD1	1:D:3248:ARG:N	2.29	0.64
1:D:3842:LEU:HD13	1:D:3933:PHE:CD2	2.33	0.64
1:C:23:GLN:OE1	1:C:35:LEU:N	2.31	0.64
1:C:2598:ALA:O	1:C:2602:VAL:HG23	1.97	0.64
1:C:3379:LEU:HD13	1:C:3391:GLU:OE1	1.97	0.64
1:C:4219:PHE:O	1:C:4223:ASN:ND2	2.29	0.64
1:A:1084:GLN:NE2	1:A:1186:ASP:O	2.30	0.64
1:A:2667:THR:HG21	1:A:2672:LEU:HD11	1.80	0.64
1:A:3479:ALA:HB1	1:B:1141:ARG:HB3	1.79	0.64
2:G:1:GLY:O	2:G:3:GLN:NE2	2.30	0.64
1:B:3842:LEU:HD13	1:B:3933:PHE:CD2	2.33	0.64
1:D:23:GLN:OE1	1:D:35:LEU:N	2.31	0.64
1:C:2267:MET:HE3	1:C:2271:THR:HG22	1.79	0.64
1:C:2667:THR:HG21	1:C:2672:LEU:HD11	1.80	0.64
1:A:1141:ARG:HB3	1:D:3479:ALA:HB1	1.80	0.64
1:A:1425:GLU:OE2	1:A:1429:ASN:ND2	2.31	0.64
1:A:2598:ALA:O	1:A:2602:VAL:HG23	1.97	0.64
1:A:3051:ARG:O	1:A:3053:ARG:NE	2.31	0.64
1:B:697:GLY:HA2	1:B:1636:MET:SD	2.37	0.64
1:D:162:LYS:O	1:D:164:ARG:NH1	2.30	0.64
1:D:1425:GLU:OE2	1:D:1429:ASN:ND2	2.31	0.64
1:D:3052:HIS:HE2	1:D:3128:ASN:CG	2.01	0.64
1:D:3379:LEU:HD13	1:D:3391:GLU:OE1	1.97	0.64
1:C:56:GLN:O	1:C:309:THR:OG1	2.16	0.64
1:C:3427:PRO:HD3	1:C:3579:LEU:HD21	1.78	0.64
1:C:4231:MET:O	1:C:4235:VAL:HG23	1.98	0.64
1:B:2593:ARG:O	1:B:2594:SER:OG	2.14	0.64
1:B:3310:ASP:OD1	1:B:3311:HIS:N	2.31	0.64
1:B:3955:MET:CE	1:B:4016:LEU:HA	2.28	0.64
1:D:3579:LEU:HD22	1:D:3582:ARG:HG2	1.78	0.64
1:B:2512:ILE:HG21	1:B:2565:CYS:SG	2.38	0.63
1:B:2667:THR:HG21	1:B:2672:LEU:HD11	1.80	0.63
1:D:2667:THR:HG21	1:D:2672:LEU:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1425:GLU:OE2	1:C:1429:ASN:ND2	2.31	0.63
1:A:162:LYS:O	1:A:164:ARG:NH1	2.30	0.63
1:A:3427:PRO:HD3	1:A:3579:LEU:HD21	1.78	0.63
1:A:3479:ALA:HB1	1:B:1141:ARG:CB	2.28	0.63
1:A:4827:LEU:O	1:A:4831:THR:HG23	1.99	0.63
1:B:3283:ARG:HG2	1:B:3287:ARG:HH22	1.63	0.63
1:C:697:GLY:HA2	1:C:1636:MET:SD	2.37	0.63
1:C:2974:ILE:CD1	1:C:3049:LEU:HD12	2.28	0.63
1:C:3283:ARG:HG2	1:C:3287:ARG:HH22	1.63	0.63
1:A:697:GLY:HA2	1:A:1636:MET:SD	2.37	0.63
1:A:2512:ILE:HG21	1:A:2565:CYS:SG	2.38	0.63
1:B:3379:LEU:HD13	1:B:3391:GLU:OE1	1.97	0.63
1:B:4231:MET:O	1:B:4235:VAL:HG23	1.98	0.63
1:D:4559:PHE:HA	1:D:4562:LEU:HD12	1.81	0.63
1:C:683:ARG:NH1	1:C:707:VAL:O	2.29	0.63
1:C:3842:LEU:HD13	1:C:3933:PHE:CD2	2.33	0.63
1:A:2675:THR:CG2	1:A:2710:LEU:HD21	2.29	0.63
1:B:23:GLN:OE1	1:B:35:LEU:N	2.31	0.63
1:B:1425:GLU:OE2	1:B:1429:ASN:ND2	2.31	0.63
1:B:2675:THR:CG2	1:B:2710:LEU:HD21	2.29	0.63
1:B:3051:ARG:O	1:B:3053:ARG:NE	2.31	0.63
1:D:3223:SER:N	1:D:3226:GLU:OE2	2.32	0.63
1:C:3955:MET:CE	1:C:4016:LEU:HA	2.28	0.63
1:A:1101:ARG:NH1	1:A:1114:GLU:OE2	2.32	0.63
1:A:2974:ILE:CD1	1:A:3049:LEU:HD12	2.28	0.63
1:A:3729:MET:HE2	1:A:3770:LEU:HD22	1.81	0.63
1:A:3842:LEU:HD13	1:A:3933:PHE:CD2	2.33	0.63
1:A:3844:LEU:HD13	1:B:76:ARG:NH1	2.14	0.63
1:B:1424:PRO:O	1:B:1428:LEU:HD23	1.99	0.63
1:B:3230:LEU:HD12	1:B:3230:LEU:O	1.99	0.63
1:D:1441:ALA:N	1:D:1513:ASP:OD1	2.30	0.63
1:C:3230:LEU:HD12	1:C:3230:LEU:O	1.99	0.63
1:C:4827:LEU:O	1:C:4831:THR:HG23	1.99	0.63
1:A:1441:ALA:N	1:A:1513:ASP:OD1	2.31	0.63
1:A:3223:SER:N	1:A:3226:GLU:OE2	2.32	0.63
1:B:2538:THR:O	1:B:2542:SER:N	2.30	0.63
1:D:1109:LEU:HD21	1:D:1115:LEU:HD21	1.81	0.63
1:D:2230:THR:HG23	1:D:2270:SER:HB2	1.80	0.63
1:D:4577:LEU:HD21	1:D:4807:PHE:CD1	2.34	0.63
1:C:615:ARG:NH2	1:C:1676:LEU:O	2.28	0.63
1:C:1101:ARG:NH1	1:C:1114:GLU:OE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1109:LEU:HD21	1:A:1115:LEU:HD21	1.81	0.63
1:A:2244:ARG:N	1:A:3861:GLU:OE1	2.32	0.63
2:H:79:ASP:OD1	2:H:80:TYR:N	2.32	0.63
1:B:2215:LEU:HD23	1:B:2223:ILE:CD1	2.29	0.63
1:B:4577:LEU:HD21	1:B:4807:PHE:CD1	2.34	0.63
1:D:697:GLY:HA2	1:D:1636:MET:SD	2.37	0.63
1:D:3230:LEU:HD12	1:D:3230:LEU:O	1.99	0.63
1:C:1236:THR:OG1	1:C:1608:MET:SD	2.54	0.63
1:C:1720:LEU:CD2	1:C:1851:MET:HE1	2.24	0.63
1:C:2230:THR:HG23	1:C:2270:SER:HB2	1.81	0.63
1:C:4559:PHE:HA	1:C:4562:LEU:HD12	1.81	0.63
1:A:23:GLN:OE1	1:A:35:LEU:N	2.31	0.63
1:A:3052:HIS:HE2	1:A:3128:ASN:CG	2.01	0.63
1:A:3230:LEU:HD12	1:A:3230:LEU:O	1.99	0.63
1:B:399:GLN:O	1:B:403:MET:HG3	1.99	0.63
1:B:615:ARG:NH2	1:B:1676:LEU:O	2.28	0.63
1:D:1101:ARG:NH1	1:D:1114:GLU:OE2	2.32	0.63
1:D:4827:LEU:O	1:D:4831:THR:HG23	1.99	0.63
1:C:993:HIS:NE2	1:C:1022:VAL:O	2.30	0.63
1:C:2215:LEU:HD23	1:C:2223:ILE:CD1	2.29	0.63
1:C:2512:ILE:HG21	1:C:2565:CYS:SG	2.38	0.63
1:A:2215:LEU:HD23	1:A:2223:ILE:CD1	2.29	0.63
1:A:3414:ARG:HD2	1:A:3473:ASP:OD2	1.99	0.63
1:B:2582:MET:HE1	1:B:2610:LEU:HD13	1.80	0.63
1:D:2675:THR:CG2	1:D:2710:LEU:HD21	2.29	0.63
1:C:3310:ASP:OD1	1:C:3311:HIS:N	2.31	0.63
1:A:399:GLN:O	1:A:403:MET:HG3	1.99	0.62
1:B:4936:ILE:HG22	1:B:4940:PHE:CE2	2.34	0.62
1:C:399:GLN:O	1:C:403:MET:HG3	1.99	0.62
1:C:981:GLN:OE1	1:C:981:GLN:N	2.32	0.62
1:A:156:GLN:OE1	1:A:157:ARG:NH1	2.32	0.62
1:A:4052:SER:O	1:A:4055:VAL:N	2.32	0.62
1:A:4577:LEU:HD21	1:A:4807:PHE:CD1	2.34	0.62
2:G:49:MET:HG3	2:G:52:LYS:NZ	2.15	0.62
2:F:49:MET:HG3	2:F:52:LYS:NZ	2.15	0.62
1:B:2026:ASP:OD1	1:B:2027:ILE:N	2.32	0.62
1:B:3414:ARG:HD2	1:B:3473:ASP:OD2	1.99	0.62
1:D:56:GLN:O	1:D:309:THR:OG1	2.16	0.62
1:D:3310:ASP:OD1	1:D:3311:HIS:N	2.31	0.62
1:D:4978:HIS:ND1	1:D:4982:GLU:OE1	2.32	0.62
1:C:4052:SER:O	1:C:4055:VAL:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:981:GLN:N	1:B:981:GLN:OE1	2.32	0.62
1:B:4559:PHE:HA	1:B:4562:LEU:HD12	1.81	0.62
1:B:4827:LEU:O	1:B:4831:THR:HG23	1.99	0.62
1:D:1424:PRO:O	1:D:1428:LEU:HD23	1.99	0.62
1:D:3051:ARG:O	1:D:3053:ARG:NE	2.31	0.62
1:D:3225:ARG:O	1:D:3228:ALA:HB3	2.00	0.62
1:D:3283:ARG:HG2	1:D:3287:ARG:HH22	1.63	0.62
1:C:156:GLN:OE1	1:C:157:ARG:NH1	2.32	0.62
1:C:3414:ARG:HD2	1:C:3473:ASP:OD2	1.99	0.62
1:A:2026:ASP:OD1	1:A:2027:ILE:N	2.32	0.62
1:A:4936:ILE:HG22	1:A:4940:PHE:CE2	2.34	0.62
1:D:156:GLN:OE1	1:D:157:ARG:NH1	2.32	0.62
1:D:2512:ILE:HG21	1:D:2565:CYS:SG	2.38	0.62
1:C:1109:LEU:HD21	1:C:1115:LEU:HD21	1.81	0.62
1:C:1441:ALA:N	1:C:1513:ASP:OD1	2.30	0.62
1:C:3225:ARG:O	1:C:3228:ALA:HB3	1.99	0.62
1:C:3834:ALA:O	1:C:3838:THR:HG23	2.00	0.62
1:C:4577:LEU:HD21	1:C:4807:PHE:CD1	2.34	0.62
1:C:4936:ILE:HG22	1:C:4940:PHE:CE2	2.34	0.62
1:A:1424:PRO:O	1:A:1428:LEU:HD23	1.99	0.62
1:B:156:GLN:OE1	1:B:157:ARG:NH1	2.32	0.62
1:D:2215:LEU:HD23	1:D:2223:ILE:CD1	2.29	0.62
1:D:3414:ARG:HD2	1:D:3473:ASP:OD2	1.99	0.62
1:D:3955:MET:CE	1:D:4016:LEU:HA	2.28	0.62
1:D:4936:ILE:HG22	1:D:4940:PHE:CE2	2.34	0.62
1:C:2244:ARG:N	1:C:3861:GLU:OE1	2.32	0.62
1:C:2675:THR:CG2	1:C:2710:LEU:HD21	2.29	0.62
1:A:56:GLN:O	1:A:309:THR:OG1	2.16	0.62
1:A:2230:THR:HG23	1:A:2270:SER:HB2	1.81	0.62
1:A:3834:ALA:O	1:A:3838:THR:HG23	2.00	0.62
2:H:49:MET:HG3	2:H:52:LYS:NZ	2.15	0.62
1:B:1101:ARG:NH1	1:B:1114:GLU:OE2	2.32	0.62
1:B:3834:ALA:O	1:B:3838:THR:HG23	2.00	0.62
1:B:4052:SER:O	1:B:4055:VAL:N	2.32	0.62
1:D:1141:ARG:CB	1:C:3479:ALA:HB1	2.29	0.62
1:D:1931:LEU:HD12	1:D:1939:MET:HE1	1.82	0.62
1:D:2244:ARG:N	1:D:3861:GLU:OE1	2.32	0.62
1:A:3310:ASP:OD1	1:A:3311:HIS:N	2.31	0.62
2:H:25:HIS:HB3	2:H:102:GLU:OE2	1.99	0.62
1:B:1109:LEU:HD21	1:B:1115:LEU:HD21	1.81	0.62
1:B:1579:MET:HE2	1:B:1580:PHE:HE1	1.59	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:399:GLN:O	1:D:403:MET:HG3	1.99	0.62
1:D:1263:THR:OG1	1:D:1265:ASP:OD1	2.13	0.62
1:D:2258:LEU:C	1:D:2297:LYS:HZ3	2.02	0.62
1:D:2294:ASP:O	1:D:2298:VAL:HG23	2.00	0.62
1:D:3324:VAL:CG1	1:D:3361:THR:HG22	2.30	0.62
1:D:3834:ALA:O	1:D:3838:THR:HG23	2.00	0.62
1:D:4052:SER:O	1:D:4055:VAL:N	2.32	0.62
1:D:4745:LEU:O	1:D:4749:GLU:OE1	2.17	0.62
1:C:2582:MET:HE3	1:C:2610:LEU:HD13	1.81	0.62
1:C:3566:SER:OG	1:C:3568:SER:OG	1.98	0.62
1:A:3225:ARG:O	1:A:3228:ALA:HB3	2.00	0.62
2:E:49:MET:HG3	2:E:52:LYS:NZ	2.15	0.62
2:H:34:LYS:HE2	1:D:629:ARG:HB2	1.82	0.62
1:B:3225:ARG:O	1:B:3228:ALA:HB3	1.99	0.62
1:D:2974:ILE:CD1	1:D:3049:LEU:HD12	2.28	0.62
1:A:1680:ARG:HG2	1:A:1797:ARG:HD3	1.82	0.62
1:A:4736:ARG:NH2	1:D:4079:ASP:OD2	2.33	0.62
1:B:4978:HIS:ND1	1:B:4982:GLU:OE1	2.32	0.62
1:D:1255:TYR:O	1:D:1275:ARG:NH2	2.30	0.62
1:D:1720:LEU:CD2	1:D:1851:MET:HE1	2.28	0.62
1:C:1570:LYS:O	1:C:1572:ILE:HD12	2.00	0.62
1:C:2582:MET:HE1	1:C:2610:LEU:HD13	1.80	0.62
1:C:3324:VAL:CG1	1:C:3361:THR:HG22	2.30	0.62
1:C:3779:VAL:HG13	1:C:3797:THR:CG2	2.30	0.62
1:A:2294:ASP:O	1:A:2298:VAL:HG23	2.00	0.62
1:A:3102:ASP:O	1:A:3106:MET:HG2	2.00	0.62
1:A:4978:HIS:ND1	1:A:4982:GLU:OE1	2.32	0.62
2:F:34:LYS:HE2	1:B:629:ARG:HB2	1.82	0.62
2:F:79:ASP:OD1	2:F:80:TYR:N	2.32	0.62
1:B:875:ALA:CB	1:B:922:LEU:HD22	2.30	0.62
1:B:2582:MET:HE2	1:B:2610:LEU:HD13	1.80	0.62
1:D:1570:LYS:O	1:D:1572:ILE:HD12	2.00	0.62
1:C:1424:PRO:O	1:C:1428:LEU:HD23	1.99	0.62
1:C:3223:SER:N	1:C:3226:GLU:OE2	2.32	0.62
1:A:4027:LEU:HB3	1:A:4044:MET:HE1	1.82	0.61
2:E:79:ASP:OD1	2:E:80:TYR:N	2.32	0.61
1:B:1680:ARG:HG2	1:B:1797:ARG:HD3	1.82	0.61
1:B:2230:THR:HG23	1:B:2270:SER:HB2	1.80	0.61
1:D:214:VAL:HG22	1:D:341:TYR:CD2	2.35	0.61
1:C:4743:MET:HE2	1:C:4748:LEU:HD11	1.82	0.61
1:A:214:VAL:HG22	1:A:341:TYR:CD2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:981:GLN:OE1	1:A:981:GLN:N	2.32	0.61
1:A:993:HIS:NE2	1:A:1022:VAL:O	2.30	0.61
1:A:3283:ARG:HG2	1:A:3287:ARG:HH22	1.63	0.61
1:A:4559:PHE:HA	1:A:4562:LEU:HD12	1.81	0.61
1:B:2516:ASP:OD1	1:B:2517:PHE:N	2.33	0.61
1:B:3779:VAL:HG13	1:B:3797:THR:CG2	2.30	0.61
1:D:981:GLN:OE1	1:D:981:GLN:N	2.32	0.61
1:C:2258:LEU:C	1:C:2297:LYS:HZ3	2.04	0.61
1:C:2516:ASP:OD1	1:C:2517:PHE:N	2.33	0.61
1:A:3955:MET:CE	1:A:4016:LEU:HA	2.28	0.61
1:A:4745:LEU:O	1:A:4749:GLU:OE1	2.17	0.61
2:G:79:ASP:OD1	2:G:80:TYR:N	2.32	0.61
2:F:49:MET:HG3	2:F:52:LYS:HZ1	1.65	0.61
1:D:2026:ASP:OD1	1:D:2027:ILE:N	2.32	0.61
1:B:179:TYR:N	1:B:194:SER:O	2.33	0.61
1:D:2223:ILE:HG23	1:D:2223:ILE:O	2.01	0.61
1:D:3729:MET:HE2	1:D:3770:LEU:HD22	1.83	0.61
1:D:3779:VAL:HG13	1:D:3797:THR:CG2	2.30	0.61
1:C:2026:ASP:OD1	1:C:2027:ILE:N	2.32	0.61
1:C:2294:ASP:O	1:C:2298:VAL:HG23	2.00	0.61
1:A:1570:LYS:O	1:A:1572:ILE:HD12	2.00	0.61
1:A:2223:ILE:HG23	1:A:2223:ILE:O	2.01	0.61
1:B:1570:LYS:O	1:B:1572:ILE:HD12	2.00	0.61
1:B:4745:LEU:O	1:B:4749:GLU:OE1	2.17	0.61
1:D:939:VAL:HG23	1:D:1053:ILE:CD1	2.30	0.61
1:D:2768:PHE:HB2	1:D:2857:PRO:HG3	1.83	0.61
1:D:3842:LEU:HD22	1:D:3933:PHE:CE2	2.36	0.61
1:A:615:ARG:NH2	1:A:1676:LEU:O	2.28	0.61
1:A:2768:PHE:HB2	1:A:2857:PRO:HG3	1.83	0.61
1:A:3842:LEU:HD22	1:A:3933:PHE:CE2	2.36	0.61
2:E:25:HIS:HB3	2:E:102:GLU:OE2	1.99	0.61
1:B:514:SER:O	1:B:518:ILE:HD12	2.01	0.61
1:B:1931:LEU:HD12	1:B:1939:MET:HE1	1.82	0.61
1:B:2420:HIS:ND1	1:B:2491:SER:O	2.34	0.61
1:B:2768:PHE:HB2	1:B:2857:PRO:HG3	1.83	0.61
1:B:3930:ILE:HG22	1:B:3995:VAL:HG11	1.82	0.61
1:D:4063:ASP:OD1	1:D:4064:MET:N	2.34	0.61
1:C:179:TYR:N	1:C:194:SER:O	2.33	0.61
1:C:659:TYR:OH	1:C:807:GLY:O	2.11	0.61
1:C:939:VAL:HG23	1:C:1053:ILE:CD1	2.30	0.61
1:C:2768:PHE:HB2	1:C:2857:PRO:HG3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3102:ASP:O	1:C:3106:MET:HG2	2.00	0.61
1:C:4063:ASP:OD1	1:C:4064:MET:N	2.34	0.61
1:A:131:LEU:HD22	1:D:2460:LEU:HD23	1.81	0.61
1:A:2010:LEU:HD21	1:A:3653:PHE:HE1	1.66	0.61
1:B:2010:LEU:HD21	1:B:3653:PHE:HE1	1.66	0.61
1:B:2267:MET:HE3	1:B:2271:THR:HG22	1.82	0.61
1:B:3102:ASP:O	1:B:3106:MET:HG2	2.00	0.61
1:D:3102:ASP:O	1:D:3106:MET:HG2	2.00	0.61
1:C:4745:LEU:O	1:C:4749:GLU:OE1	2.17	0.61
1:A:1855:GLY:O	1:A:1859:VAL:HG23	2.00	0.61
1:A:2906:VAL:HG23	1:A:2911:LEU:HD23	1.83	0.61
1:B:3479:ALA:HB1	1:C:1141:ARG:CB	2.30	0.61
1:C:875:ALA:CB	1:C:922:LEU:HD22	2.30	0.61
1:C:1255:TYR:O	1:C:1275:ARG:NH2	2.30	0.61
1:A:1069:TRP:CH2	1:A:1112:ASP:CB	2.84	0.61
1:A:1157:GLU:OE1	1:A:1157:GLU:N	2.34	0.61
1:A:3930:ILE:HG22	1:A:3995:VAL:HG11	1.82	0.61
1:B:1069:TRP:CH2	1:B:1112:ASP:CB	2.84	0.61
1:D:1855:GLY:O	1:D:1859:VAL:HG23	2.00	0.61
1:D:2906:VAL:HG23	1:D:2911:LEU:HD23	1.83	0.61
1:D:3568:SER:O	1:D:3572:GLN:OE1	2.19	0.61
1:C:214:VAL:HG22	1:C:341:TYR:CD2	2.35	0.61
1:A:294:THR:O	1:A:298:GLY:N	2.34	0.61
1:A:939:VAL:HG23	1:A:1053:ILE:CD1	2.30	0.61
1:A:1579:MET:CE	1:A:1580:PHE:CE1	2.83	0.61
1:A:2612[B]:ARG:CZ	1:A:2612[B]:ARG:HB2	2.31	0.61
1:A:3779:VAL:HG13	1:A:3797:THR:CG2	2.30	0.61
2:F:25:HIS:HB3	2:F:102:GLU:OE2	1.99	0.61
1:B:214:VAL:HG22	1:B:341:TYR:CD2	2.35	0.61
1:B:294:THR:O	1:B:298:GLY:N	2.34	0.61
1:B:1720:LEU:CD2	1:B:1851:MET:HE1	2.26	0.61
1:B:4063:ASP:OD1	1:B:4064:MET:N	2.34	0.61
1:D:875:ALA:CB	1:D:922:LEU:HD22	2.30	0.61
1:D:1157:GLU:OE1	1:D:1157:GLU:N	2.34	0.61
1:D:2420:HIS:ND1	1:D:2491:SER:O	2.34	0.61
1:D:4077:PHE:O	1:D:4081:VAL:HG23	2.01	0.61
1:C:2010:LEU:HD21	1:C:3653:PHE:HE1	1.66	0.61
1:A:1435:TYR:HH	1:A:1564:PHE:HD2	1.48	0.60
1:A:2420:HIS:ND1	1:A:2491:SER:O	2.34	0.60
1:A:3324:VAL:CG1	1:A:3361:THR:HG22	2.30	0.60
1:A:4063:ASP:OD1	1:A:4064:MET:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1430:THR:HG22	1:B:1432:THR:H	1.66	0.60
1:D:683:ARG:NH1	1:D:707:VAL:O	2.29	0.60
1:D:1430:THR:HG22	1:D:1432:THR:H	1.66	0.60
1:C:3157:ILE:HG22	1:C:3162:GLN:HG2	1.83	0.60
1:A:1286:MET:HE2	1:A:1555:LEU:HD12	1.82	0.60
1:A:2706:ILE:O	1:A:2710:LEU:HD23	2.01	0.60
2:G:25:HIS:HB3	2:G:102:GLU:OE2	1.99	0.60
1:B:939:VAL:HG23	1:B:1053:ILE:CD1	2.30	0.60
1:B:3842:LEU:HD22	1:B:3933:PHE:CE2	2.36	0.60
1:D:893:TYR:HB3	1:D:962:SER:OG	2.02	0.60
1:D:1141:ARG:HB3	1:C:3479:ALA:HB1	1.83	0.60
1:D:2612[B]:ARG:CZ	1:D:2612[B]:ARG:HB2	2.31	0.60
1:D:3930:ILE:HG22	1:D:3995:VAL:HG11	1.82	0.60
1:A:514:SER:O	1:A:518:ILE:HD12	2.01	0.60
1:A:875:ALA:CB	1:A:922:LEU:HD22	2.30	0.60
1:A:1931:LEU:HD13	1:A:1935:VAL:CG1	2.31	0.60
1:B:1579:MET:CE	1:B:1580:PHE:CE1	2.83	0.60
1:B:2612[B]:ARG:HB2	1:B:2612[B]:ARG:CZ	2.31	0.60
1:B:4749:GLU:HB3	1:B:4753:HIS:NE2	2.17	0.60
1:D:3157:ILE:HG22	1:D:3162:GLN:CG	2.32	0.60
1:C:514:SER:O	1:C:518:ILE:HD12	2.01	0.60
1:C:1069:TRP:CH2	1:C:1112:ASP:CB	2.84	0.60
1:C:2612[B]:ARG:CZ	1:C:2612[B]:ARG:HB2	2.31	0.60
1:A:2516:ASP:OD1	1:A:2517:PHE:N	2.33	0.60
1:A:4749:GLU:HB3	1:A:4753:HIS:NE2	2.17	0.60
1:D:1290:ARG:HD2	1:D:1549:PHE:HB2	1.84	0.60
1:D:1703:LEU:HD23	1:D:1704:PRO:O	2.02	0.60
1:D:2789:PRO:O	1:D:2792:ARG:NH1	2.35	0.60
1:D:2970:SER:HA	1:D:2973:PHE:CD1	2.36	0.60
1:C:1157:GLU:OE1	1:C:1157:GLU:N	2.34	0.60
1:C:2970:SER:HA	1:C:2973:PHE:CD1	2.36	0.60
1:C:3157:ILE:HG22	1:C:3162:GLN:CG	2.32	0.60
1:C:3729:MET:HE2	1:C:3770:LEU:HD22	1.83	0.60
1:C:3842:LEU:HD22	1:C:3933:PHE:CE2	2.36	0.60
1:C:4749:GLU:HB3	1:C:4753:HIS:NE2	2.17	0.60
1:A:179:TYR:N	1:A:194:SER:O	2.33	0.60
1:A:1579:MET:CE	1:A:1580:PHE:HE1	2.15	0.60
1:A:2744:ASN:OD1	1:A:2745:VAL:N	2.35	0.60
1:A:4077:PHE:O	1:A:4081:VAL:HG23	2.01	0.60
1:B:357:LEU:HD12	1:B:377:ILE:O	2.02	0.60
1:B:2244:ARG:N	1:B:3861:GLU:OE1	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2294:ASP:O	1:B:2298:VAL:HG23	2.00	0.60
1:B:3157:ILE:HG22	1:B:3162:GLN:CG	2.32	0.60
1:B:3324:VAL:CG1	1:B:3361:THR:HG22	2.30	0.60
1:D:744:VAL:HG22	1:D:759:ILE:CD1	2.32	0.60
1:D:2010:LEU:HD21	1:D:3653:PHE:HE1	1.66	0.60
1:C:125:ARG:NH2	1:C:191:VAL:O	2.32	0.60
1:C:3614:LYS:O	1:C:3617:LYS:HG2	2.02	0.60
1:C:3930:ILE:HG22	1:C:3995:VAL:HG11	1.82	0.60
1:A:2970:SER:HA	1:A:2973:PHE:CD1	2.36	0.60
1:D:1069:TRP:CH2	1:D:1112:ASP:CB	2.84	0.60
1:D:1579:MET:CE	1:D:1580:PHE:CE1	2.83	0.60
1:C:1290:ARG:HD2	1:C:1549:PHE:HB2	1.84	0.60
1:C:1680:ARG:HG2	1:C:1797:ARG:HD3	1.82	0.60
1:C:2223:ILE:O	1:C:2223:ILE:HG23	2.01	0.60
1:C:2420:HIS:ND1	1:C:2491:SER:O	2.34	0.60
1:C:2744:ASN:OD1	1:C:2745:VAL:N	2.35	0.60
1:A:346:CYS:O	1:A:388:LEU:HD23	2.02	0.60
1:A:893:TYR:HB3	1:A:962:SER:OG	2.02	0.60
1:A:1430:THR:HG22	1:A:1432:THR:H	1.66	0.60
1:A:3157:ILE:HG22	1:A:3162:GLN:CG	2.32	0.60
1:B:426:ARG:NE	1:B:429:GLY:O	2.35	0.60
1:B:3568:SER:O	1:B:3572:GLN:OE1	2.19	0.60
1:D:4749:GLU:HB3	1:D:4753:HIS:NE2	2.17	0.60
1:C:357:LEU:HD12	1:C:377:ILE:O	2.02	0.60
1:B:28:VAL:HG23	1:B:29:LEU:CD2	2.32	0.60
1:B:1855:GLY:O	1:B:1859:VAL:HG23	2.00	0.60
1:B:2970:SER:HA	1:B:2973:PHE:CD1	2.36	0.60
1:B:3573:MET:HG3	1:B:3577:ARG:HE	1.67	0.60
1:B:4077:PHE:O	1:B:4081:VAL:HG23	2.01	0.60
1:D:1579:MET:CE	1:D:1580:PHE:HE1	2.15	0.60
1:D:2516:ASP:OD1	1:D:2517:PHE:N	2.33	0.60
1:D:3410:PRO:HB3	1:D:3469:PHE:CE2	2.37	0.60
1:C:28:VAL:HG23	1:C:29:LEU:CD2	2.32	0.60
1:C:1855:GLY:O	1:C:1859:VAL:HG23	2.00	0.60
1:C:3052:HIS:HE2	1:C:3128:ASN:CG	2.01	0.60
1:C:3343:GLN:O	1:C:3346:VAL:HG12	2.02	0.60
1:A:2527:LEU:HG	1:A:2531:ARG:HE	1.66	0.60
1:A:3671:ASP:OD1	1:A:3672:ARG:N	2.35	0.60
1:B:744:VAL:HG22	1:B:759:ILE:CD1	2.32	0.60
1:B:1579:MET:CE	1:B:1580:PHE:HE1	2.15	0.60
1:B:2285:GLU:OE2	1:B:3853:ALA:HB1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:54:ASN:O	1:D:56:GLN:N	2.35	0.60
1:D:346:CYS:O	1:D:388:LEU:HD23	2.02	0.60
1:D:2161:GLN:HB3	1:D:2177:LEU:HD21	1.84	0.60
1:C:1431:THR:O	1:C:1431:THR:HG22	2.02	0.60
1:C:1579:MET:CE	1:C:1580:PHE:HE1	2.15	0.60
1:C:1931:LEU:HD13	1:C:1935:VAL:CG1	2.31	0.60
1:C:2906:VAL:HG23	1:C:2911:LEU:HD23	1.83	0.60
1:C:3386:GLU:O	1:C:3389:GLU:O	2.20	0.60
1:C:3573:MET:HG3	1:C:3577:ARG:HE	1.67	0.60
1:A:744:VAL:HG22	1:A:759:ILE:CD1	2.32	0.60
1:A:1931:LEU:HD13	1:A:1935:VAL:HG12	1.83	0.60
1:A:2004:GLU:N	1:A:2004:GLU:OE1	2.35	0.60
1:A:2789:PRO:O	1:A:2792:ARG:NH1	2.34	0.60
1:A:3157:ILE:HG22	1:A:3162:GLN:HG2	1.84	0.60
1:A:3458:PHE:O	1:A:3462:ASN:ND2	2.32	0.60
2:H:21:THR:N	2:H:107:GLU:O	2.35	0.60
1:B:1157:GLU:OE1	1:B:1157:GLU:N	2.34	0.60
1:B:2789:PRO:O	1:B:2792:ARG:NH1	2.35	0.60
1:B:3223:SER:N	1:B:3226:GLU:OE2	2.32	0.60
1:D:1931:LEU:HD13	1:D:1935:VAL:CG1	2.31	0.60
1:D:2744:ASN:OD1	1:D:2745:VAL:N	2.35	0.60
1:D:3343:GLN:O	1:D:3346:VAL:HG12	2.02	0.60
1:D:4837:LEU:O	1:D:4841:VAL:HG23	2.02	0.60
1:C:2706:ILE:O	1:C:2710:LEU:HD23	2.01	0.60
1:C:3729:MET:CE	1:C:3770:LEU:HD22	2.32	0.60
1:A:426:ARG:NE	1:A:429:GLY:O	2.35	0.59
1:A:1069:TRP:HE3	1:A:1603:VAL:HG21	1.67	0.59
1:A:1290:ARG:HD2	1:A:1549:PHE:HB2	1.84	0.59
1:A:1720:LEU:CD2	1:A:1851:MET:HE1	2.28	0.59
1:A:2165:LEU:HD11	1:A:2177:LEU:HD22	1.84	0.59
1:A:2582:MET:HE1	1:A:2610:LEU:HD13	1.84	0.59
1:A:3283:ARG:HG2	1:A:3287:ARG:HH12	1.67	0.59
1:A:3293:PRO:HB2	1:A:3298:ALA:HB2	1.84	0.59
1:A:3568:SER:O	1:A:3572:GLN:OE1	2.19	0.59
1:B:1290:ARG:HD2	1:B:1549:PHE:HB2	1.84	0.59
1:B:3157:ILE:HG22	1:B:3162:GLN:HG2	1.83	0.59
1:D:125:ARG:NH2	1:D:191:VAL:O	2.32	0.59
1:D:131:LEU:HD22	1:C:2460:LEU:HD23	1.82	0.59
1:D:1931:LEU:HD13	1:D:1935:VAL:HG12	1.83	0.59
1:D:3283:ARG:HG2	1:D:3287:ARG:HH12	1.67	0.59
1:C:1430:THR:HG22	1:C:1432:THR:H	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1703:LEU:HD23	1:C:1704:PRO:O	2.02	0.59
1:C:2004:GLU:OE1	1:C:2004:GLU:N	2.35	0.59
1:A:2267:MET:HE3	1:A:2271:THR:HG22	1.84	0.59
1:A:2285:GLU:OE2	1:A:3853:ALA:HB1	2.02	0.59
1:B:346:CYS:O	1:B:388:LEU:HD23	2.02	0.59
1:B:1069:TRP:HE3	1:B:1603:VAL:HG21	1.67	0.59
1:B:1158:ASN:ND2	1:B:1182:ILE:O	2.34	0.59
1:B:1703:LEU:HD23	1:B:1704:PRO:O	2.02	0.59
1:B:2161:GLN:HB3	1:B:2177:LEU:HD21	1.84	0.59
1:B:2615:ARG:NH1	1:B:2617:SER:OG	2.36	0.59
1:B:3293:PRO:HB2	1:B:3298:ALA:HB2	1.84	0.59
1:B:3386:GLU:O	1:B:3389:GLU:O	2.20	0.59
1:D:294:THR:O	1:D:298:GLY:N	2.34	0.59
1:D:514:SER:O	1:D:518:ILE:HD12	2.01	0.59
1:D:2527:LEU:HG	1:D:2531:ARG:HE	1.66	0.59
1:D:2615:ARG:NH1	1:D:2617:SER:OG	2.36	0.59
1:C:54:ASN:O	1:C:56:GLN:N	2.35	0.59
1:C:231:LEU:HD13	1:C:247:TYR:CE1	2.38	0.59
1:C:744:VAL:HG22	1:C:759:ILE:CD1	2.32	0.59
1:C:2789:PRO:O	1:C:2792:ARG:NH1	2.34	0.59
1:A:357:LEU:HD12	1:A:377:ILE:O	2.02	0.59
1:A:1679:ASN:ND2	1:A:1797:ARG:O	2.35	0.59
1:A:3410:PRO:HB3	1:A:3469:PHE:CE2	2.37	0.59
1:B:231:LEU:HD13	1:B:247:TYR:CE1	2.38	0.59
1:B:3729:MET:CE	1:B:3770:LEU:HD22	2.32	0.59
1:D:1186:ASP:OD2	1:D:1187:GLY:N	2.36	0.59
1:D:1680:ARG:HG2	1:D:1797:ARG:HD3	1.82	0.59
1:D:3157:ILE:HG22	1:D:3162:GLN:HG2	1.83	0.59
1:D:3293:PRO:HB2	1:D:3298:ALA:HB2	1.84	0.59
1:C:346:CYS:O	1:C:388:LEU:HD23	2.02	0.59
1:C:3568:SER:O	1:C:3572:GLN:OE1	2.19	0.59
1:C:4077:PHE:O	1:C:4081:VAL:HG23	2.01	0.59
1:C:4178:LEU:HD23	1:C:4179:GLY:N	2.17	0.59
1:A:54:ASN:O	1:A:56:GLN:N	2.35	0.59
1:A:659:TYR:OH	1:A:807:GLY:O	2.11	0.59
1:A:3343:GLN:O	1:A:3346:VAL:HG12	2.02	0.59
1:A:3614:LYS:O	1:A:3617:LYS:HG2	2.02	0.59
1:A:4178:LEU:HD23	1:A:4179:GLY:N	2.17	0.59
1:B:1931:LEU:HD13	1:B:1935:VAL:CG1	2.31	0.59
1:B:2527:LEU:HG	1:B:2531:ARG:HE	1.66	0.59
1:B:2906:VAL:HG23	1:B:2911:LEU:HD23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:357:LEU:HD12	1:D:377:ILE:O	2.02	0.59
1:D:2706:ILE:O	1:D:2710:LEU:HD23	2.02	0.59
1:C:2285:GLU:OE2	1:C:3853:ALA:HB1	2.02	0.59
1:C:3293:PRO:HB2	1:C:3298:ALA:HB2	1.84	0.59
1:A:1703:LEU:HD23	1:A:1704:PRO:O	2.02	0.59
1:A:3702:VAL:HA	1:A:3778:MET:CE	2.33	0.59
1:B:54:ASN:O	1:B:56:GLN:N	2.34	0.59
1:B:1431:THR:O	1:B:1431:THR:HG22	2.02	0.59
1:B:2460:LEU:HD23	1:C:131:LEU:HD22	1.84	0.59
1:B:2924:GLN:O	1:B:2928:LYS:HG3	2.03	0.59
1:D:2004:GLU:OE1	1:D:2004:GLU:N	2.35	0.59
1:D:2285:GLU:OE2	1:D:3853:ALA:HB1	2.02	0.59
1:D:3386:GLU:O	1:D:3389:GLU:O	2.20	0.59
1:D:3702:VAL:HA	1:D:3778:MET:CE	2.33	0.59
1:C:2924:GLN:O	1:C:2928:LYS:HG3	2.03	0.59
1:A:1236:THR:OG1	1:A:1608:MET:SD	2.54	0.59
1:A:2258:LEU:C	1:A:2297:LYS:HZ3	2.06	0.59
1:A:3904:ARG:NH1	1:A:3973:CYS:SG	2.76	0.59
2:G:21:THR:N	2:G:107:GLU:O	2.35	0.59
1:B:659:TYR:OH	1:B:807:GLY:O	2.11	0.59
1:B:3015:LEU:O	1:B:3019:SER:OG	2.18	0.59
1:B:3614:LYS:O	1:B:3617:LYS:HG2	2.02	0.59
1:D:1158:ASN:ND2	1:D:1182:ILE:O	2.34	0.59
1:C:426:ARG:NE	1:C:429:GLY:O	2.35	0.59
1:C:3283:ARG:HG2	1:C:3287:ARG:HH12	1.67	0.59
1:C:5014:TYR:HE2	6:C:5304:A1BD2:C1	2.16	0.59
1:A:2615:ARG:NH1	1:A:2617:SER:OG	2.36	0.59
1:A:3510:ILE:O	1:A:3514:LEU:HD23	2.03	0.59
1:B:56:GLN:O	1:B:309:THR:OG1	2.16	0.59
1:B:2256:TYR:O	1:B:2260:ASN:OD1	2.21	0.59
1:B:3283:ARG:HG2	1:B:3287:ARG:HH12	1.67	0.59
1:B:5014:TYR:HE2	6:B:5304:A1BD2:C1	2.16	0.59
1:D:2650:ARG:NH1	1:D:2651:CYS:SG	2.76	0.59
1:D:2744:ASN:OD1	1:D:2745:VAL:HG23	2.02	0.59
1:D:3416:VAL:O	1:D:3420:ARG:N	2.36	0.59
1:D:3614:LYS:O	1:D:3617:LYS:HG2	2.02	0.59
1:C:988:LEU:HB2	1:C:1039:LEU:HD21	1.85	0.59
1:C:1263:THR:OG1	1:C:1265:ASP:OD1	2.13	0.59
1:C:2615:ARG:NH1	1:C:2617:SER:OG	2.36	0.59
1:A:28:VAL:O	1:A:31:GLU:N	2.29	0.59
1:A:1431:THR:HG22	1:A:1431:THR:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3566:SER:OG	1:B:3568:SER:OG	1.98	0.59
1:B:3671:ASP:OD1	1:B:3672:ARG:N	2.35	0.59
1:B:4178:LEU:HD23	1:B:4179:GLY:N	2.17	0.59
1:D:988:LEU:HB2	1:D:1039:LEU:HD21	1.85	0.59
1:D:3930:ILE:HG23	1:D:3951:PHE:HE1	1.68	0.59
1:C:28:VAL:O	1:C:31:GLU:N	2.29	0.59
1:C:893:TYR:HB3	1:C:962:SER:OG	2.02	0.59
1:C:2256:TYR:O	1:C:2260:ASN:OD1	2.21	0.59
1:B:683:ARG:NH1	1:B:707:VAL:O	2.29	0.59
1:B:1186:ASP:OD2	1:B:1187:GLY:N	2.36	0.59
1:B:2165:LEU:HD11	1:B:2177:LEU:HD22	1.84	0.59
1:B:2744:ASN:OD1	1:B:2745:VAL:N	2.35	0.59
1:B:3479:ALA:HB1	1:C:1141:ARG:HB3	1.83	0.59
1:D:3729:MET:CE	1:D:3770:LEU:HD22	2.32	0.59
1:A:231:LEU:HD13	1:A:247:TYR:CE1	2.38	0.59
1:A:1158:ASN:ND2	1:A:1182:ILE:O	2.34	0.59
1:A:3686:GLU:O	1:A:3687:GLU:HG3	2.03	0.59
1:B:2381:GLU:HA	1:B:2384:ILE:HD12	1.85	0.59
1:B:2706:ILE:O	1:B:2710:LEU:HD23	2.02	0.59
1:B:2880:GLU:HA	1:B:2883:HIS:CE1	2.38	0.59
1:B:3510:ILE:O	1:B:3514:LEU:HD23	2.03	0.59
1:B:3980:LEU:O	1:B:3983:SER:OG	2.18	0.59
1:D:28:VAL:HG23	1:D:29:LEU:CD2	2.32	0.59
1:D:231:LEU:HD13	1:D:247:TYR:CE1	2.37	0.59
1:D:2305:CYS:O	1:D:2324:ASN:N	2.36	0.59
1:C:2012:PHE:CZ	1:C:2031:LEU:HD23	2.38	0.59
1:C:3410:PRO:HB3	1:C:3469:PHE:CE2	2.37	0.59
1:C:4837:LEU:O	1:C:4841:VAL:HG23	2.02	0.59
1:A:2650:ARG:NH1	1:A:2651:CYS:SG	2.76	0.58
1:A:2744:ASN:OD1	1:A:2745:VAL:HG23	2.02	0.58
1:A:2758:PHE:O	1:A:2762:THR:OG1	2.10	0.58
1:A:3729:MET:CE	1:A:3770:LEU:HD22	2.32	0.58
1:B:3702:VAL:HA	1:B:3778:MET:CE	2.33	0.58
1:D:3114:LYS:HD3	1:D:3116:SER:H	1.69	0.58
1:D:3405:LEU:HD22	1:D:3409:TYR:CZ	2.38	0.58
1:D:3573:MET:HG3	1:D:3577:ARG:HE	1.67	0.58
1:D:3671:ASP:OD1	1:D:3672:ARG:N	2.35	0.58
1:C:1931:LEU:HD13	1:C:1935:VAL:HG12	1.83	0.58
1:C:2178:MET:HE2	1:C:2228:MET:HG2	1.85	0.58
1:C:2381:GLU:HA	1:C:2384:ILE:HD12	1.85	0.58
1:C:2758:PHE:O	1:C:2762:THR:OG1	2.10	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:323:LEU:HD23	1:A:323:LEU:H	1.68	0.58
1:A:988:LEU:HB2	1:A:1039:LEU:HD21	1.85	0.58
1:A:1676:LEU:HD22	1:A:2167:ILE:HD12	1.85	0.58
1:A:2381:GLU:HA	1:A:2384:ILE:HD12	1.85	0.58
1:A:3323:ILE:HD11	1:A:3338:LEU:HD23	1.84	0.58
1:A:3930:ILE:HG23	1:A:3951:PHE:HE1	1.68	0.58
1:B:2012:PHE:CZ	1:B:2031:LEU:HD23	2.38	0.58
1:B:2223:ILE:HG23	1:B:2223:ILE:O	2.01	0.58
1:B:2583:LEU:HB3	1:B:2622:LEU:HD22	1.85	0.58
1:B:3410:PRO:HB3	1:B:3469:PHE:CE2	2.37	0.58
1:D:179:TYR:N	1:D:194:SER:O	2.33	0.58
1:D:415:ILE:HD11	1:D:490:CYS:SG	2.43	0.58
1:D:426:ARG:NE	1:D:429:GLY:O	2.35	0.58
1:D:2582:MET:HE2	1:D:2610:LEU:HD13	1.85	0.58
1:D:2880:GLU:HA	1:D:2883:HIS:CE1	2.38	0.58
1:D:5014:TYR:HE2	6:D:5304:A1BD2:C1	2.16	0.58
1:C:3114:LYS:HD3	1:C:3116:SER:H	1.69	0.58
1:A:2161:GLN:HB3	1:A:2177:LEU:HD21	1.84	0.58
1:A:3386:GLU:O	1:A:3389:GLU:O	2.20	0.58
1:A:3573:MET:HG3	1:A:3577:ARG:HE	1.67	0.58
2:E:21:THR:N	2:E:107:GLU:O	2.35	0.58
1:B:4837:LEU:O	1:B:4841:VAL:HG23	2.02	0.58
1:D:884:LEU:HA	1:D:887:ILE:HD12	1.85	0.58
1:D:2165:LEU:HD11	1:D:2177:LEU:HD22	1.85	0.58
1:D:3510:ILE:O	1:D:3514:LEU:HD23	2.03	0.58
1:D:4178:LEU:HD23	1:D:4179:GLY:N	2.17	0.58
1:C:294:THR:O	1:C:298:GLY:N	2.34	0.58
1:C:2527:LEU:HG	1:C:2531:ARG:HE	1.66	0.58
1:C:2880:GLU:HA	1:C:2883:HIS:CE1	2.38	0.58
1:C:3015:LEU:O	1:C:3019:SER:OG	2.18	0.58
1:A:1186:ASP:OD2	1:A:1187:GLY:N	2.36	0.58
1:B:893:TYR:HB3	1:B:962:SER:OG	2.02	0.58
1:B:988:LEU:HB2	1:B:1039:LEU:HD21	1.85	0.58
1:B:1286:MET:HE2	1:B:1555:LEU:HD12	1.84	0.58
1:B:3343:GLN:O	1:B:3346:VAL:HG12	2.02	0.58
1:B:3686:GLU:O	1:B:3687:GLU:HG3	2.03	0.58
1:D:1027:LEU:HD21	1:D:1031:THR:CG2	2.34	0.58
1:D:1431:THR:HG22	1:D:1431:THR:O	2.02	0.58
1:D:3904:ARG:NH1	1:D:3973:CYS:SG	2.76	0.58
1:C:2583:LEU:HB3	1:C:2622:LEU:HD22	1.85	0.58
1:C:2650:ARG:NH1	1:C:2651:CYS:SG	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3510:ILE:O	1:C:3514:LEU:HD23	2.03	0.58
1:B:972:LEU:HD11	1:B:1041:GLN:OE1	2.04	0.58
1:B:1931:LEU:HD13	1:B:1935:VAL:HG12	1.83	0.58
1:B:3323:ILE:HD11	1:B:3338:LEU:HD23	1.84	0.58
1:D:1069:TRP:HE3	1:D:1603:VAL:HG21	1.67	0.58
1:D:2012:PHE:CZ	1:D:2031:LEU:HD23	2.38	0.58
1:D:3686:GLU:O	1:D:3687:GLU:HG3	2.03	0.58
1:C:1069:TRP:HE3	1:C:1603:VAL:HG21	1.67	0.58
1:C:1679:ASN:ND2	1:C:1797:ARG:O	2.35	0.58
1:C:2305:CYS:O	1:C:2324:ASN:N	2.36	0.58
1:C:3671:ASP:OD1	1:C:3672:ARG:N	2.35	0.58
1:C:3702:VAL:HA	1:C:3778:MET:CE	2.33	0.58
1:C:4978:HIS:ND1	1:C:4982:GLU:OE1	2.32	0.58
1:A:2441:HIS:HA	1:A:2444:GLN:OE1	2.04	0.58
1:A:2583:LEU:HB3	1:A:2622:LEU:HD22	1.85	0.58
1:A:5014:TYR:HE2	6:A:5304:A1BD2:C1	2.16	0.58
1:D:2381:GLU:HA	1:D:2384:ILE:HD12	1.85	0.58
1:C:1069:TRP:CE3	1:C:1603:VAL:CG2	2.86	0.58
1:C:3458:PHE:O	1:C:3462:ASN:ND2	2.32	0.58
1:C:3904:ARG:NH1	1:C:3973:CYS:SG	2.76	0.58
1:A:1069:TRP:CE3	1:A:1603:VAL:CG2	2.86	0.58
1:A:3256:LEU:HD13	1:A:3266:MET:HG3	1.86	0.58
1:B:415:ILE:HD11	1:B:490:CYS:SG	2.43	0.58
1:B:3405:LEU:HD22	1:B:3409:TYR:CZ	2.38	0.58
1:D:3323:ILE:HD11	1:D:3338:LEU:HD23	1.84	0.58
1:C:323:LEU:HD23	1:C:323:LEU:H	1.68	0.58
1:C:415:ILE:HD11	1:C:490:CYS:SG	2.43	0.58
1:C:1158:ASN:ND2	1:C:1182:ILE:O	2.34	0.58
1:C:1579:MET:CE	1:C:1580:PHE:CE1	2.83	0.58
1:C:2161:GLN:HB3	1:C:2177:LEU:HD21	1.84	0.58
1:A:2012:PHE:CZ	1:A:2031:LEU:HD23	2.38	0.58
1:A:2178:MET:HE2	1:A:2228:MET:HG2	1.86	0.58
1:B:663:TYR:OH	1:B:665:GLU:OE2	2.22	0.58
1:B:993:HIS:NE2	1:B:1022:VAL:O	2.30	0.58
1:B:2178:MET:HE2	1:B:2228:MET:HG2	1.86	0.58
1:B:2650:ARG:NH1	1:B:2651:CYS:SG	2.76	0.58
1:D:323:LEU:HD23	1:D:323:LEU:H	1.68	0.58
1:D:988:LEU:CB	1:D:1039:LEU:HD21	2.34	0.58
1:D:3256:LEU:HD13	1:D:3266:MET:HG3	1.86	0.58
1:C:2744:ASN:OD1	1:C:2745:VAL:HG23	2.02	0.58
1:C:3930:ILE:HG23	1:C:3951:PHE:HE1	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:629:ARG:HB2	2:E:34:LYS:HE2	1.84	0.58
1:A:663:TYR:OH	1:A:665:GLU:OE2	2.22	0.58
1:A:1228:ILE:HD11	1:D:3571:TRP:CE2	2.39	0.58
1:A:3416:VAL:O	1:A:3420:ARG:N	2.36	0.58
1:A:4837:LEU:O	1:A:4841:VAL:HG23	2.02	0.58
1:B:2744:ASN:OD1	1:B:2745:VAL:HG23	2.02	0.58
1:B:3681:GLY:O	1:B:3682:GLU:HG3	2.03	0.58
1:B:4668:LEU:HG	1:B:4672:LYS:HZ3	1.69	0.58
1:D:663:TYR:OH	1:D:665:GLU:OE2	2.22	0.58
1:D:1069:TRP:CE3	1:D:1603:VAL:CG2	2.86	0.58
1:D:2178:MET:HE2	1:D:2228:MET:HG2	1.86	0.58
1:C:972:LEU:HD11	1:C:1041:GLN:OE1	2.04	0.58
1:C:988:LEU:CB	1:C:1039:LEU:HD21	2.34	0.58
1:C:1069:TRP:CE2	1:C:1602:PRO:HG3	2.39	0.58
1:A:415:ILE:HD11	1:A:490:CYS:SG	2.43	0.58
1:A:3114:LYS:HD3	1:A:3116:SER:H	1.68	0.58
1:B:3930:ILE:HG23	1:B:3951:PHE:HE1	1.68	0.58
1:D:1069:TRP:CE2	1:D:1602:PRO:HG3	2.39	0.58
1:D:2481:LYS:O	1:D:2481:LYS:HD2	2.04	0.58
1:D:2924:GLN:O	1:D:2928:LYS:HG3	2.03	0.58
1:D:3458:PHE:O	1:D:3462:ASN:ND2	2.32	0.58
1:C:1186:ASP:OD2	1:C:1187:GLY:N	2.36	0.58
1:C:3405:LEU:HD22	1:C:3409:TYR:CZ	2.38	0.58
1:A:884:LEU:HA	1:A:887:ILE:HD12	1.85	0.57
1:A:2256:TYR:O	1:A:2260:ASN:OD1	2.21	0.57
1:A:2481:LYS:O	1:A:2481:LYS:HD2	2.04	0.57
1:A:2880:GLU:HA	1:A:2883:HIS:CE1	2.38	0.57
1:B:3546:ASP:O	1:B:3550:ARG:NE	2.35	0.57
1:D:2256:TYR:O	1:D:2260:ASN:OD1	2.21	0.57
1:D:3842:LEU:HD22	1:D:3933:PHE:CZ	2.39	0.57
1:D:4545:GLU:O	1:D:4549:VAL:HG23	2.04	0.57
1:C:1733:GLU:HG2	1:C:2201:LEU:HD23	1.86	0.57
1:C:2165:LEU:HD11	1:C:2177:LEU:HD22	1.85	0.57
1:C:3681:GLY:O	1:C:3682:GLU:HG3	2.03	0.57
1:A:4545:GLU:O	1:A:4549:VAL:HG23	2.04	0.57
2:F:21:THR:N	2:F:107:GLU:O	2.35	0.57
1:B:1027:LEU:HD21	1:B:1031:THR:CG2	2.34	0.57
1:B:1069:TRP:CE3	1:B:1603:VAL:CG2	2.86	0.57
1:D:2582:MET:SD	1:D:2583:LEU:N	2.77	0.57
1:D:3681:GLY:O	1:D:3682:GLU:HG3	2.03	0.57
1:C:730:VAL:HA	1:C:1476:MET:HE1	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4721:LYS:HG2	1:C:4741:LEU:HD13	1.86	0.57
1:A:1069:TRP:CE2	1:A:1602:PRO:HG3	2.39	0.57
1:A:4721:LYS:HG2	1:A:4741:LEU:HD13	1.86	0.57
1:B:3904:ARG:NH1	1:B:3973:CYS:SG	2.76	0.57
1:D:1435:TYR:HH	1:D:1564:PHE:HD2	1.52	0.57
1:D:1676:LEU:HD22	1:D:2167:ILE:HD12	1.85	0.57
1:D:2583:LEU:HB3	1:D:2622:LEU:HD22	1.85	0.57
1:C:2151:ASP:O	1:C:2155:LEU:HD23	2.05	0.57
1:C:4545:GLU:O	1:C:4549:VAL:HG23	2.04	0.57
1:A:972:LEU:HD11	1:A:1041:GLN:OE1	2.04	0.57
1:A:1027:LEU:HD21	1:A:1031:THR:CG2	2.34	0.57
1:A:2810:LYS:O	1:A:2814:LYS:HG3	2.05	0.57
1:A:4668:LEU:HG	1:A:4672:LYS:HZ3	1.69	0.57
1:B:323:LEU:H	1:B:323:LEU:HD23	1.68	0.57
1:B:985:VAL:HG22	1:B:1043:VAL:HG21	1.87	0.57
1:B:2258:LEU:C	1:B:2297:LYS:HZ3	2.07	0.57
1:B:3114:LYS:HD3	1:B:3116:SER:H	1.68	0.57
1:B:3416:VAL:O	1:B:3420:ARG:N	2.36	0.57
1:D:2151:ASP:O	1:D:2155:LEU:HD23	2.05	0.57
1:C:663:TYR:OH	1:C:665:GLU:OE2	2.22	0.57
1:C:884:LEU:HA	1:C:887:ILE:HD12	1.86	0.57
1:C:2441:HIS:HA	1:C:2444:GLN:OE1	2.04	0.57
1:C:3323:ILE:HD11	1:C:3338:LEU:HD23	1.84	0.57
1:A:988:LEU:CB	1:A:1039:LEU:HD21	2.34	0.57
1:A:2781:VAL:HG23	1:A:2789:PRO:HG3	1.87	0.57
1:A:3842:LEU:HD22	1:A:3933:PHE:CZ	2.39	0.57
1:B:2481:LYS:O	1:B:2481:LYS:HD2	2.04	0.57
1:C:50:GLU:OE2	1:C:61:ASP:N	2.35	0.57
1:C:1676:LEU:HD22	1:C:2167:ILE:HD12	1.85	0.57
1:C:1999:ARG:O	1:C:3638:MET:SD	2.63	0.57
1:C:4668:LEU:HG	1:C:4672:LYS:HZ3	1.69	0.57
1:A:1999:ARG:O	1:A:3638:MET:SD	2.63	0.57
1:B:884:LEU:HA	1:B:887:ILE:HD12	1.85	0.57
1:B:2305:CYS:O	1:B:2324:ASN:N	2.36	0.57
1:B:2810:LYS:O	1:B:2814:LYS:HG3	2.05	0.57
1:B:4743:MET:CE	1:B:4748:LEU:HD11	2.34	0.57
1:D:1733:GLU:HG2	1:D:2201:LEU:HD23	1.86	0.57
1:D:1999:ARG:O	1:D:3638:MET:SD	2.63	0.57
1:D:4743:MET:CE	1:D:4748:LEU:HD11	2.34	0.57
1:C:3853:ALA:HA	1:C:3856:LEU:HD11	1.86	0.57
1:A:28:VAL:HG23	1:A:29:LEU:CD2	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1733:GLU:HG2	1:A:2201:LEU:HD23	1.86	0.57
1:A:2010:LEU:HD21	1:A:3653:PHE:CE1	2.40	0.57
1:A:2924:GLN:O	1:A:2928:LYS:HG3	2.03	0.57
1:A:4743:MET:CE	1:A:4748:LEU:HD11	2.34	0.57
1:A:4839:MET:HE1	1:D:4820:VAL:HG11	1.85	0.57
1:B:498:THR:O	1:B:553:ARG:NH2	2.38	0.57
1:B:2441:HIS:HA	1:B:2444:GLN:OE1	2.04	0.57
1:D:2441:HIS:HA	1:D:2444:GLN:OE1	2.04	0.57
1:D:3100:SER:O	1:D:3104:GLU:OE1	2.23	0.57
1:D:4127:GLU:OE1	1:D:4131:ARG:NH2	2.28	0.57
1:D:4736:ARG:NH2	1:C:4079:ASP:OD2	2.38	0.57
1:D:4966:ASP:OD1	1:D:4967:TYR:N	2.38	0.57
1:C:3416:VAL:O	1:C:3420:ARG:N	2.36	0.57
1:C:3686:GLU:O	1:C:3687:GLU:HG3	2.03	0.57
1:A:498:THR:O	1:A:553:ARG:NH2	2.38	0.57
1:A:1245:PHE:CD2	1:A:1290:ARG:NH1	2.73	0.57
1:A:2582:MET:SD	1:A:2583:LEU:N	2.77	0.57
1:A:3405:LEU:HD22	1:A:3409:TYR:CZ	2.38	0.57
1:B:988:LEU:CB	1:B:1039:LEU:HD21	2.34	0.57
1:B:3458:PHE:O	1:B:3462:ASN:ND2	2.32	0.57
1:D:972:LEU:HD11	1:D:1041:GLN:OE1	2.04	0.57
1:D:1245:PHE:CD2	1:D:1290:ARG:NH1	2.73	0.57
1:D:2010:LEU:HD21	1:D:3653:PHE:CE1	2.40	0.57
1:C:498:THR:O	1:C:553:ARG:NH2	2.38	0.57
1:C:985:VAL:HG22	1:C:1043:VAL:HG21	1.87	0.57
1:C:3842:LEU:HD22	1:C:3933:PHE:CZ	2.39	0.57
1:A:1983:ALA:HA	1:A:1986:MET:CE	2.35	0.57
1:A:3681:GLY:O	1:A:3682:GLU:HG3	2.03	0.57
1:B:50:GLU:OE2	1:B:61:ASP:N	2.35	0.57
1:B:1676:LEU:HD22	1:B:2167:ILE:HD12	1.85	0.57
1:B:2582:MET:SD	1:B:2583:LEU:N	2.77	0.57
1:B:2858:GLN:O	1:B:2860:PRO:HD3	2.05	0.57
1:B:3100:SER:O	1:B:3104:GLU:OE1	2.23	0.57
1:B:3256:LEU:HD13	1:B:3266:MET:HG3	1.85	0.57
1:B:3853:ALA:HA	1:B:3856:LEU:HD11	1.86	0.57
1:D:50:GLU:OE2	1:D:61:ASP:N	2.35	0.57
1:D:317:ARG:NH1	1:D:349:GLN:OE1	2.38	0.57
1:C:3015:LEU:O	1:C:3019:SER:N	2.37	0.57
1:C:3100:SER:O	1:C:3104:GLU:OE1	2.23	0.57
1:A:2238:TYR:O	1:A:2242:ILE:HD12	2.05	0.57
1:A:4966:ASP:OD1	1:A:4967:TYR:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1263:THR:OG1	1:B:1265:ASP:OD1	2.13	0.57
1:B:1999:ARG:O	1:B:3638:MET:SD	2.63	0.57
1:B:2004:GLU:OE1	1:B:2004:GLU:N	2.35	0.57
1:B:2751:LEU:CD2	1:B:2817:ILE:HD11	2.35	0.57
1:B:3842:LEU:HD22	1:B:3933:PHE:CZ	2.39	0.57
1:B:4966:ASP:OD1	1:B:4967:TYR:N	2.38	0.57
1:D:1983:ALA:HA	1:D:1986:MET:CE	2.35	0.57
1:D:4668:LEU:HG	1:D:4672:LYS:HZ3	1.69	0.57
1:C:1027:LEU:HD21	1:C:1031:THR:CG2	2.34	0.57
1:C:1245:PHE:CD2	1:C:1290:ARG:NH1	2.73	0.57
1:C:2858:GLN:O	1:C:2860:PRO:HD3	2.05	0.57
1:C:3256:LEU:HD13	1:C:3266:MET:HG3	1.85	0.57
1:A:110:ARG:NH2	1:A:117:TYR:OH	2.38	0.56
1:A:317:ARG:NH1	1:A:349:GLN:OE1	2.38	0.56
1:A:1105:ALA:HB2	1:A:1191:VAL:HG11	1.87	0.56
1:A:1491:ASN:OD1	1:A:1492:CYS:N	2.38	0.56
1:A:2751:LEU:CD2	1:A:2817:ILE:HD11	2.35	0.56
1:B:995:VAL:HG22	1:B:998:ARG:HH12	1.70	0.56
1:B:1069:TRP:CE2	1:B:1602:PRO:HG3	2.39	0.56
1:D:110:ARG:NH2	1:D:117:TYR:OH	2.38	0.56
1:D:1105:ALA:HB2	1:D:1191:VAL:HG11	1.87	0.56
1:A:2023:LEU:O	1:A:2028:ARG:NH2	2.38	0.56
1:A:2209:GLU:O	1:A:2213:ASN:ND2	2.39	0.56
1:A:3100:SER:O	1:A:3104:GLU:OE1	2.23	0.56
1:A:3254:GLY:O	1:A:3258:GLU:OE1	2.23	0.56
1:A:4929:LEU:O	1:A:4933:GLN:OE1	2.23	0.56
1:B:2781:VAL:HG23	1:B:2789:PRO:HG3	1.87	0.56
1:B:4929:LEU:O	1:B:4933:GLN:OE1	2.23	0.56
1:D:993:HIS:NE2	1:D:1022:VAL:O	2.30	0.56
1:D:3254:GLY:O	1:D:3258:GLU:OE1	2.23	0.56
1:D:4929:LEU:O	1:D:4933:GLN:OE1	2.23	0.56
1:C:2010:LEU:HD21	1:C:3653:PHE:CE1	2.40	0.56
1:C:2023:LEU:O	1:C:2028:ARG:NH2	2.38	0.56
1:C:2481:LYS:O	1:C:2481:LYS:HD2	2.04	0.56
1:C:4929:LEU:O	1:C:4933:GLN:OE1	2.23	0.56
1:A:985:VAL:HG22	1:A:1043:VAL:HG21	1.86	0.56
1:A:995:VAL:HG22	1:A:998:ARG:HH12	1.70	0.56
1:A:2151:ASP:O	1:A:2155:LEU:HD23	2.05	0.56
1:B:931:THR:O	1:B:935:LEU:HD23	2.06	0.56
1:B:1491:ASN:OD1	1:B:1492:CYS:N	2.38	0.56
1:B:1983:ALA:HA	1:B:1986:MET:CE	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2151:ASP:O	1:B:2155:LEU:HD23	2.05	0.56
1:B:2238:TYR:O	1:B:2242:ILE:HD12	2.05	0.56
1:B:4545:GLU:O	1:B:4549:VAL:HG23	2.04	0.56
1:D:28:VAL:O	1:D:31:GLU:N	2.29	0.56
1:D:498:THR:O	1:D:553:ARG:NH2	2.38	0.56
1:D:884:LEU:O	1:D:888:GLU:OE1	2.24	0.56
1:D:995:VAL:HG22	1:D:998:ARG:HH12	1.70	0.56
1:D:1491:ASN:OD1	1:D:1492:CYS:N	2.38	0.56
1:D:1742:THR:O	1:D:1960:ALA:HB2	2.06	0.56
1:D:2209:GLU:O	1:D:2213:ASN:ND2	2.39	0.56
1:D:2781:VAL:HG23	1:D:2789:PRO:HG3	1.87	0.56
1:D:2810:LYS:O	1:D:2814:LYS:HG3	2.05	0.56
1:D:2858:GLN:O	1:D:2860:PRO:HD3	2.05	0.56
1:D:4721:LYS:HG2	1:D:4741:LEU:HD13	1.86	0.56
1:C:317:ARG:NH1	1:C:349:GLN:OE1	2.38	0.56
1:C:1491:ASN:OD1	1:C:1492:CYS:N	2.38	0.56
1:C:1983:ALA:HA	1:C:1986:MET:CE	2.35	0.56
1:C:2582:MET:SD	1:C:2583:LEU:N	2.77	0.56
1:C:2810:LYS:O	1:C:2814:LYS:HG3	2.05	0.56
1:C:4743:MET:CE	1:C:4748:LEU:HD11	2.34	0.56
1:A:856:VAL:HG12	1:A:991:ASN:ND2	2.21	0.56
1:B:2037:ASP:OD1	1:B:2038:LEU:N	2.39	0.56
1:D:985:VAL:HG22	1:D:1043:VAL:HG21	1.87	0.56
1:C:884:LEU:O	1:C:888:GLU:OE1	2.24	0.56
1:A:1439:VAL:HG21	1:A:1448:VAL:HG11	1.88	0.56
1:A:1931:LEU:HD12	1:A:1939:MET:HE1	1.87	0.56
1:A:3853:ALA:HA	1:A:3856:LEU:HD11	1.86	0.56
1:B:1733:GLU:HG2	1:B:2201:LEU:HD23	1.86	0.56
1:B:3986:TRP:O	1:B:3990:VAL:HG23	2.05	0.56
1:D:931:THR:O	1:D:935:LEU:HD23	2.06	0.56
1:D:2037:ASP:OD1	1:D:2038:LEU:N	2.39	0.56
1:D:3853:ALA:HA	1:D:3856:LEU:HD11	1.86	0.56
1:D:4820:VAL:HG12	1:D:4822:THR:H	1.71	0.56
1:C:1105:ALA:HB2	1:C:1191:VAL:HG11	1.87	0.56
1:A:4027:LEU:HD22	1:A:4044:MET:HE2	1.88	0.56
1:A:4548:ARG:O	1:A:4552:LEU:HD23	2.06	0.56
1:B:1245:PHE:CD2	1:B:1290:ARG:NH1	2.73	0.56
1:B:2209:GLU:O	1:B:2213:ASN:ND2	2.39	0.56
1:B:4721:LYS:HG2	1:B:4741:LEU:HD13	1.86	0.56
1:D:2238:TYR:O	1:D:2242:ILE:HD12	2.05	0.56
1:C:110:ARG:NH2	1:C:117:TYR:OH	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2774:ASN:ND2	1:B:1506:GLN:O	2.34	0.56
1:B:1676:LEU:HD22	1:B:2167:ILE:CD1	2.36	0.56
1:B:1742:THR:O	1:B:1960:ALA:HB2	2.06	0.56
1:B:2347:GLU:OE2	1:B:3852:LYS:NZ	2.39	0.56
1:B:4548:ARG:O	1:B:4552:LEU:HD23	2.06	0.56
1:D:2872:GLN:O	1:D:2876:GLU:OE1	2.24	0.56
1:C:1676:LEU:HD22	1:C:2167:ILE:CD1	2.36	0.56
1:C:2037:ASP:OD1	1:C:2038:LEU:N	2.39	0.56
1:C:2347:GLU:OE2	1:C:3852:LYS:NZ	2.39	0.56
1:C:4966:ASP:OD1	1:C:4967:TYR:N	2.38	0.56
1:A:3020:THR:OG1	1:A:3023:LYS:O	2.07	0.56
2:E:6:THR:HG23	2:E:6:THR:O	2.06	0.56
2:F:6:THR:HG23	2:F:6:THR:O	2.06	0.56
1:B:110:ARG:NH2	1:B:117:TYR:OH	2.38	0.56
1:B:1679:ASN:ND2	1:B:1797:ARG:O	2.35	0.56
1:B:2872:GLN:O	1:B:2876:GLU:OE1	2.24	0.56
1:B:4902:GLU:OE1	1:B:4902:GLU:N	2.39	0.56
1:D:173:SER:OG	1:D:176:SER:OG	1.88	0.56
1:D:856:VAL:HG12	1:D:991:ASN:ND2	2.21	0.56
1:D:3176:GLY:HA3	1:D:3268:HIS:CE1	2.41	0.56
1:D:3986:TRP:O	1:D:3990:VAL:HG23	2.05	0.56
1:D:4548:ARG:O	1:D:4552:LEU:HD23	2.06	0.56
1:C:995:VAL:HG22	1:C:998:ARG:HH12	1.70	0.56
1:C:1005:TRP:HB3	1:C:1021:LEU:HD22	1.88	0.56
1:C:2751:LEU:CD2	1:C:2817:ILE:HD11	2.35	0.56
1:A:50:GLU:OE2	1:A:61:ASP:N	2.35	0.56
1:A:2305:CYS:O	1:A:2324:ASN:N	2.36	0.56
1:A:2460:LEU:HD23	1:B:131:LEU:HD22	1.87	0.56
1:A:3015:LEU:O	1:A:3019:SER:OG	2.18	0.56
1:B:2010:LEU:HD21	1:B:3653:PHE:CE1	2.40	0.56
1:B:4745:LEU:HA	1:B:4748:LEU:HD12	1.87	0.56
1:D:2434:GLY:O	1:D:2508:ARG:NE	2.39	0.56
1:D:3704:HIS:O	1:D:3708:THR:HG23	2.06	0.56
1:C:1069:TRP:CH2	1:C:1112:ASP:HB2	2.41	0.56
1:C:1742:THR:O	1:C:1960:ALA:HB2	2.06	0.56
1:C:2135:LEU:HD21	1:C:3662:ILE:CG2	2.36	0.56
1:C:2238:TYR:O	1:C:2242:ILE:HD12	2.05	0.56
1:C:4749:GLU:O	1:C:4753:HIS:CD2	2.59	0.56
1:A:1742:THR:O	1:A:1960:ALA:HB2	2.06	0.56
1:A:3201:MET:CE	1:A:3203:VAL:HG22	2.36	0.56
1:B:1105:ALA:HB2	1:B:1191:VAL:HG11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1461:ASP:OD2	1:B:1468:LYS:NZ	2.39	0.56
1:B:2434:GLY:O	1:B:2508:ARG:NE	2.39	0.56
1:D:2751:LEU:CD2	1:D:2817:ILE:HD11	2.35	0.56
1:C:856:VAL:HG12	1:C:991:ASN:ND2	2.21	0.56
1:C:2612[A]:ARG:NH1	1:C:2612[A]:ARG:HB3	2.20	0.56
1:C:2872:GLN:O	1:C:2876:GLU:OE1	2.24	0.56
1:C:3412:LEU:O	1:C:3416:VAL:HG23	2.06	0.56
1:C:3704:HIS:O	1:C:3708:THR:HG23	2.06	0.56
1:C:3986:TRP:O	1:C:3990:VAL:HG23	2.05	0.56
1:A:884:LEU:O	1:A:888:GLU:OE1	2.24	0.55
1:A:2872:GLN:O	1:A:2876:GLU:OE1	2.24	0.55
1:A:3568:SER:OG	1:A:3569:LEU:N	2.39	0.55
1:A:3986:TRP:O	1:A:3990:VAL:HG23	2.05	0.55
1:B:317:ARG:NH1	1:B:349:GLN:OE1	2.38	0.55
1:B:1005:TRP:HB3	1:B:1021:LEU:HD22	1.88	0.55
1:B:2023:LEU:O	1:B:2028:ARG:NH2	2.38	0.55
1:B:2479:LEU:HD11	1:B:2540:THR:HG21	1.88	0.55
1:B:2906:VAL:HG23	1:B:2911:LEU:CD2	2.36	0.55
1:D:1509:ILE:H	1:D:1509:ILE:HD12	1.71	0.55
1:D:2479:LEU:HD11	1:D:2540:THR:HG21	1.88	0.55
1:D:3015:LEU:O	1:D:3019:SER:N	2.37	0.55
1:C:939:VAL:HG23	1:C:1053:ILE:HD11	1.88	0.55
1:C:1439:VAL:HG21	1:C:1448:VAL:HG11	1.88	0.55
1:C:1983:ALA:HA	1:C:1986:MET:HE1	1.87	0.55
1:C:2781:VAL:HG23	1:C:2789:PRO:HG3	1.87	0.55
1:C:3176:GLY:HA3	1:C:3268:HIS:CE1	2.41	0.55
1:A:939:VAL:HG23	1:A:1053:ILE:HD11	1.88	0.55
1:A:2037:ASP:OD1	1:A:2038:LEU:N	2.39	0.55
1:A:3546:ASP:O	1:A:3550:ARG:NE	2.36	0.55
1:B:228:ASP:OD1	1:B:229:GLU:N	2.40	0.55
1:B:4820:VAL:HG12	1:B:4822:THR:H	1.71	0.55
1:D:1069:TRP:CH2	1:D:1112:ASP:HB3	2.41	0.55
1:D:1676:LEU:HD22	1:D:2167:ILE:CD1	2.36	0.55
1:D:2970:SER:HA	1:D:2973:PHE:CE1	2.42	0.55
1:C:2434:GLY:O	1:C:2508:ARG:NE	2.39	0.55
1:C:2479:LEU:HD11	1:C:2540:THR:HG21	1.88	0.55
1:C:2490:MET:HE1	1:C:2546:MET:HB3	1.88	0.55
1:A:900:ASN:OD1	1:A:901:LYS:N	2.40	0.55
1:A:1069:TRP:CH2	1:A:1112:ASP:HB3	2.41	0.55
1:A:2479:LEU:HD11	1:A:2540:THR:HG21	1.89	0.55
1:A:2858:GLN:O	1:A:2860:PRO:HD3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3704:HIS:O	1:A:3708:THR:HG23	2.06	0.55
1:A:4749:GLU:O	1:A:4753:HIS:CD2	2.59	0.55
1:B:3176:GLY:HA3	1:B:3268:HIS:CE1	2.41	0.55
1:B:4079:ASP:OD2	1:C:4736:ARG:NH2	2.40	0.55
1:B:4152:GLU:OE1	1:B:4194:TYR:OH	2.20	0.55
1:B:4157:ASP:OD2	1:B:4159:ARG:NH2	2.40	0.55
1:B:4749:GLU:O	1:B:4753:HIS:CD2	2.59	0.55
1:D:357:LEU:HD11	1:D:376:ALA:HB1	1.89	0.55
1:D:3137:LEU:CD2	1:D:3189:ALA:HB1	2.37	0.55
1:D:3201:MET:CE	1:D:3203:VAL:HG22	2.36	0.55
1:D:3546:ASP:C	1:D:3550:ARG:HE	2.10	0.55
1:D:3568:SER:OG	1:D:3569:LEU:N	2.39	0.55
1:C:931:THR:O	1:C:935:LEU:HD23	2.06	0.55
1:C:1434:TYR:HB2	1:C:1572:ILE:HG21	1.88	0.55
1:A:592:LYS:HA	1:A:1580:PHE:CE2	2.42	0.55
1:A:1461:ASP:OD2	1:A:1468:LYS:NZ	2.39	0.55
1:A:1676:LEU:HD22	1:A:2167:ILE:CD1	2.36	0.55
1:A:2135:LEU:HD21	1:A:3662:ILE:CG2	2.36	0.55
1:A:3176:GLY:HA3	1:A:3268:HIS:CE1	2.41	0.55
1:A:4820:VAL:HG12	1:A:4822:THR:H	1.71	0.55
1:B:2612[A]:ARG:NH1	1:B:2612[A]:ARG:HB3	2.20	0.55
1:B:2758:PHE:O	1:B:2762:THR:OG1	2.10	0.55
1:B:3457:ASN:O	1:B:3460:VAL:HG12	2.07	0.55
1:D:879:HIS:NE2	1:D:906:CYS:SG	2.69	0.55
1:D:1005:TRP:HB3	1:D:1021:LEU:HD22	1.88	0.55
1:D:1434:TYR:HB2	1:D:1572:ILE:HG21	1.88	0.55
1:D:2612[A]:ARG:NH1	1:D:2612[A]:ARG:HB3	2.20	0.55
1:C:357:LEU:HD11	1:C:376:ALA:HB1	1.89	0.55
1:C:592:LYS:HA	1:C:1580:PHE:CE2	2.42	0.55
1:C:1069:TRP:CH2	1:C:1112:ASP:HB3	2.41	0.55
1:C:1509:ILE:H	1:C:1509:ILE:HD12	1.71	0.55
1:C:2142:TYR:OH	1:C:3648:ARG:NH1	2.40	0.55
1:C:2906:VAL:HG23	1:C:2911:LEU:CD2	2.36	0.55
1:C:3137:LEU:CD2	1:C:3189:ALA:HB1	2.37	0.55
1:C:4548:ARG:O	1:C:4552:LEU:HD23	2.06	0.55
1:A:1005:TRP:HB3	1:A:1021:LEU:HD22	1.88	0.55
2:H:25:HIS:CE1	2:H:40:ARG:HG2	2.42	0.55
1:B:1069:TRP:CE3	1:B:1603:VAL:HG21	2.42	0.55
1:B:2135:LEU:HD21	1:B:3662:ILE:CG2	2.36	0.55
1:B:3254:GLY:O	1:B:3258:GLU:OE1	2.23	0.55
1:B:3412:LEU:O	1:B:3416:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1439:VAL:HG21	1:D:1448:VAL:HG11	1.88	0.55
1:D:2142:TYR:OH	1:D:3648:ARG:NH1	2.40	0.55
1:D:3412:LEU:O	1:D:3416:VAL:HG23	2.06	0.55
1:D:4749:GLU:O	1:D:4753:HIS:CD2	2.59	0.55
1:C:900:ASN:OD1	1:C:901:LYS:N	2.40	0.55
1:C:2199:ARG:NH2	1:C:2243:SER:OG	2.40	0.55
1:C:4820:VAL:HG12	1:C:4822:THR:H	1.71	0.55
1:A:931:THR:O	1:A:935:LEU:HD23	2.06	0.55
1:A:1069:TRP:CH2	1:A:1112:ASP:HB2	2.41	0.55
1:A:3412:LEU:O	1:A:3416:VAL:HG23	2.06	0.55
1:A:3457:ASN:O	1:A:3460:VAL:HG12	2.07	0.55
1:A:4157:ASP:OD1	1:A:4160:LEU:N	2.37	0.55
2:F:25:HIS:CE1	2:F:40:ARG:HG2	2.42	0.55
1:B:856:VAL:HG12	1:B:991:ASN:ND2	2.21	0.55
1:B:1069:TRP:CH2	1:B:1112:ASP:HB2	2.41	0.55
1:D:900:ASN:OD1	1:D:901:LYS:N	2.40	0.55
1:D:1069:TRP:CH2	1:D:1112:ASP:HB2	2.41	0.55
1:D:2199:ARG:NH2	1:D:2243:SER:OG	2.40	0.55
1:D:2215:LEU:HD23	1:D:2223:ILE:HD13	1.88	0.55
1:D:3304:CYS:SG	1:D:3305:THR:N	2.80	0.55
1:D:3457:ASN:O	1:D:3460:VAL:HG12	2.07	0.55
1:C:879:HIS:CE1	1:C:906:CYS:SG	3.00	0.55
1:C:3546:ASP:C	1:C:3550:ARG:HE	2.09	0.55
1:C:3568:SER:OG	1:C:3569:LEU:N	2.39	0.55
1:C:4745:LEU:HA	1:C:4748:LEU:HD12	1.87	0.55
1:A:1263:THR:OG1	1:A:1265:ASP:OD1	2.13	0.55
1:A:1445:PRO:HA	1:A:1448:VAL:HG12	1.89	0.55
1:A:2582:MET:SD	1:A:2583:LEU:HG	2.47	0.55
1:A:2906:VAL:HG23	1:A:2911:LEU:CD2	2.36	0.55
1:A:3304:CYS:SG	1:A:3305:THR:N	2.80	0.55
1:A:4658:ILE:HD13	1:A:4792:LEU:HB3	1.89	0.55
2:G:6:THR:HG23	2:G:6:THR:O	2.06	0.55
2:F:21:THR:N	2:F:49:MET:SD	2.80	0.55
1:B:548:VAL:HG21	1:B:582:HIS:CD2	2.42	0.55
1:B:592:LYS:HA	1:B:1580:PHE:CE2	2.42	0.55
1:B:1069:TRP:CH2	1:B:1112:ASP:HB3	2.41	0.55
1:B:2199:ARG:NH2	1:B:2243:SER:OG	2.40	0.55
1:B:3500:GLY:O	1:B:3504:SER:OG	2.25	0.55
1:B:3568:SER:OG	1:B:3569:LEU:N	2.39	0.55
1:D:2023:LEU:O	1:D:2028:ARG:NH2	2.38	0.55
1:D:2135:LEU:HD21	1:D:3662:ILE:CG2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3105:LYS:O	1:D:3109:ASN:ND2	2.40	0.55
1:D:3622:LYS:HB3	1:D:3625:SER:HB3	1.89	0.55
1:C:2691:TYR:OH	1:C:2693:GLN:OE1	2.25	0.55
1:A:260:TRP:CE3	1:A:282:ILE:HG22	2.42	0.55
1:A:879:HIS:CE1	1:A:906:CYS:SG	3.00	0.55
1:A:1069:TRP:CE3	1:A:1603:VAL:HG21	2.42	0.55
1:A:2199:ARG:NH2	1:A:2243:SER:OG	2.40	0.55
1:A:2205:GLU:O	1:A:2208:MET:HB3	2.07	0.55
1:A:2325:PRO:O	1:A:2328:GLY:N	2.40	0.55
1:A:3105:LYS:O	1:A:3109:ASN:ND2	2.40	0.55
1:A:4209:GLN:NE2	1:A:4210:VAL:HG23	2.22	0.55
1:B:2205:GLU:O	1:B:2208:MET:HB3	2.07	0.55
1:B:2562:ILE:CG2	1:B:2610:LEU:HD11	2.37	0.55
1:B:2970:SER:HA	1:B:2973:PHE:CE1	2.42	0.55
1:B:3097:GLU:O	1:B:3101:GLU:OE1	2.25	0.55
1:B:3201:MET:CE	1:B:3203:VAL:HG22	2.36	0.55
1:B:3546:ASP:C	1:B:3550:ARG:HE	2.09	0.55
1:B:4658:ILE:HD13	1:B:4792:LEU:HB3	1.89	0.55
1:D:592:LYS:HA	1:D:1580:PHE:CE2	2.42	0.55
1:D:1110:ARG:HB3	1:D:1112:ASP:OD1	2.07	0.55
1:C:2205:GLU:O	1:C:2208:MET:HB3	2.07	0.55
1:C:3201:MET:HE3	1:C:3203:VAL:HG22	1.89	0.55
1:C:3254:GLY:O	1:C:3258:GLU:OE1	2.23	0.55
1:A:548:VAL:HG21	1:A:582:HIS:CD2	2.42	0.55
1:A:2612[A]:ARG:NH1	1:A:2612[A]:ARG:HB3	2.20	0.55
1:B:884:LEU:O	1:B:888:GLU:OE1	2.24	0.55
1:B:1509:ILE:H	1:B:1509:ILE:HD12	1.71	0.55
1:B:2215:LEU:HD23	1:B:2223:ILE:HD13	1.88	0.55
1:B:3704:HIS:O	1:B:3708:THR:HG23	2.06	0.55
1:C:228:ASP:OD1	1:C:229:GLU:N	2.40	0.55
1:C:4037:ASN:O	1:C:4042:ARG:NH2	2.40	0.55
1:C:4902:GLU:N	1:C:4902:GLU:OE1	2.39	0.55
1:A:125:ARG:NH2	1:A:191:VAL:O	2.32	0.55
1:A:357:LEU:HD11	1:A:376:ALA:HB1	1.89	0.55
1:A:2215:LEU:HD23	1:A:2223:ILE:HD13	1.89	0.55
1:A:3622:LYS:HB3	1:A:3625:SER:HB3	1.89	0.55
2:G:21:THR:N	2:G:49:MET:SD	2.80	0.55
1:B:879:HIS:CE1	1:B:906:CYS:SG	3.00	0.55
1:B:900:ASN:OD1	1:B:901:LYS:N	2.40	0.55
1:B:3015:LEU:O	1:B:3019:SER:N	2.37	0.55
1:D:260:TRP:CE3	1:D:282:ILE:HG22	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1435:TYR:OH	1:D:1564:PHE:HD2	1.90	0.55
1:D:2691:TYR:OH	1:D:2693:GLN:OE1	2.25	0.55
1:D:3546:ASP:O	1:D:3550:ARG:NE	2.35	0.55
1:D:4745:LEU:HA	1:D:4748:LEU:HD12	1.87	0.55
1:C:12:GLN:O	1:C:165:VAL:HG23	2.07	0.55
1:C:1445:PRO:HA	1:C:1448:VAL:HG12	1.88	0.55
1:C:2325:PRO:O	1:C:2328:GLY:N	2.40	0.55
1:C:3622:LYS:HB3	1:C:3625:SER:HB3	1.89	0.55
1:C:4127:GLU:OE1	1:C:4131:ARG:NH2	2.28	0.55
1:A:2434:GLY:O	1:A:2508:ARG:NE	2.39	0.54
1:A:2562:ILE:CG2	1:A:2610:LEU:HD11	2.37	0.54
1:A:3980:LEU:O	1:A:3983:SER:OG	2.18	0.54
1:A:4157:ASP:OD2	1:A:4159:ARG:NH2	2.40	0.54
1:A:4902:GLU:OE1	1:A:4902:GLU:N	2.39	0.54
2:E:21:THR:N	2:E:49:MET:SD	2.80	0.54
2:H:6:THR:HG23	2:H:6:THR:O	2.06	0.54
2:H:21:THR:N	2:H:49:MET:SD	2.80	0.54
1:B:357:LEU:HD11	1:B:376:ALA:HB1	1.89	0.54
1:B:2096:GLU:OE1	1:B:2096:GLU:N	2.40	0.54
1:B:2490:MET:HE1	1:B:2546:MET:HB3	1.89	0.54
1:B:3105:LYS:O	1:B:3109:ASN:ND2	2.40	0.54
1:B:3304:CYS:SG	1:B:3305:THR:N	2.80	0.54
1:B:4545:GLU:OE2	1:B:4548:ARG:NH2	2.33	0.54
1:D:939:VAL:HG23	1:D:1053:ILE:HD11	1.88	0.54
1:D:1228:ILE:HD11	1:C:3571:TRP:CE2	2.42	0.54
1:D:1679:ASN:ND2	1:D:1797:ARG:O	2.35	0.54
1:D:2205:GLU:O	1:D:2208:MET:HB3	2.07	0.54
1:D:2325:PRO:O	1:D:2328:GLY:N	2.40	0.54
1:D:4037:ASN:O	1:D:4042:ARG:NH2	2.40	0.54
1:C:1069:TRP:CE3	1:C:1603:VAL:HG21	2.42	0.54
1:C:3457:ASN:O	1:C:3460:VAL:HG12	2.07	0.54
1:A:1110:ARG:HB3	1:A:1112:ASP:OD1	2.07	0.54
1:A:3546:ASP:C	1:A:3550:ARG:HE	2.09	0.54
1:A:4037:ASN:O	1:A:4042:ARG:NH2	2.40	0.54
1:B:2801:ASP:OD1	1:B:2802:LYS:N	2.41	0.54
1:B:3137:LEU:CD2	1:B:3189:ALA:HB1	2.37	0.54
1:B:4209:GLN:NE2	1:B:4210:VAL:HG23	2.22	0.54
1:D:548:VAL:HA	1:D:551:LEU:HD13	1.89	0.54
1:D:1461:ASP:OD2	1:D:1468:LYS:NZ	2.39	0.54
1:D:2582:MET:SD	1:D:2583:LEU:HG	2.47	0.54
1:D:3465:ASN:OD1	1:D:3467:MET:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:499:THR:HG23	1:C:502:HIS:H	1.73	0.54
1:C:548:VAL:HA	1:C:551:LEU:HD13	1.89	0.54
1:C:2475:GLN:NE2	1:C:2476:ILE:O	2.41	0.54
1:A:2801:ASP:OD1	1:A:2802:LYS:N	2.41	0.54
1:A:2970:SER:HA	1:A:2973:PHE:CE1	2.42	0.54
2:E:25:HIS:CE1	2:E:40:ARG:HG2	2.42	0.54
1:B:1434:TYR:HB2	1:B:1572:ILE:HG21	1.88	0.54
1:B:2325:PRO:O	1:B:2328:GLY:N	2.40	0.54
1:B:4542:GLY:O	1:B:4546:VAL:HG13	2.07	0.54
1:D:12:GLN:O	1:D:165:VAL:HG23	2.07	0.54
1:D:2906:VAL:HG23	1:D:2911:LEU:CD2	2.36	0.54
1:D:3529:ASP:OD2	1:D:3595:ARG:NH2	2.41	0.54
1:D:4542:GLY:O	1:D:4546:VAL:HG13	2.07	0.54
1:D:4839:MET:HE1	1:C:4820:VAL:HG11	1.89	0.54
1:C:260:TRP:CE3	1:C:282:ILE:HG22	2.42	0.54
1:C:2209:GLU:O	1:C:2213:ASN:ND2	2.38	0.54
1:C:2215:LEU:HD23	1:C:2223:ILE:HD13	1.88	0.54
1:C:2970:SER:HA	1:C:2973:PHE:CE1	2.42	0.54
1:A:228:ASP:OD1	1:A:229:GLU:N	2.40	0.54
1:A:1509:ILE:HD12	1:A:1509:ILE:H	1.71	0.54
1:A:2475:GLN:NE2	1:A:2476:ILE:O	2.41	0.54
1:A:3097:GLU:O	1:A:3101:GLU:OE1	2.25	0.54
2:G:25:HIS:CE1	2:G:40:ARG:HG2	2.42	0.54
1:B:2142:TYR:OH	1:B:3648:ARG:NH1	2.40	0.54
1:D:1069:TRP:CE3	1:D:1603:VAL:HG21	2.42	0.54
1:D:3097:GLU:O	1:D:3101:GLU:OE1	2.25	0.54
1:D:3179:LYS:O	1:D:3180:ASN:OD1	2.26	0.54
1:C:1435:TYR:OH	1:C:1564:PHE:HD2	1.90	0.54
1:C:2562:ILE:CG2	1:C:2610:LEU:HD11	2.37	0.54
1:C:2724:GLU:OE1	1:C:2724:GLU:N	2.41	0.54
1:C:3304:CYS:SG	1:C:3305:THR:N	2.80	0.54
1:C:3809:ASN:ND2	1:C:3812:VAL:HG23	2.23	0.54
1:C:4658:ILE:HD13	1:C:4792:LEU:HB3	1.89	0.54
1:A:2096:GLU:OE1	1:A:2096:GLU:N	2.40	0.54
1:A:2490:MET:HE1	1:A:2546:MET:HB3	1.89	0.54
1:A:3137:LEU:CD2	1:A:3189:ALA:HB1	2.37	0.54
1:B:260:TRP:CE3	1:B:282:ILE:HG22	2.42	0.54
1:B:548:VAL:HA	1:B:551:LEU:HD13	1.89	0.54
1:B:924:MET:HG3	1:B:925:SER:N	2.23	0.54
1:B:939:VAL:HG23	1:B:1053:ILE:HD11	1.88	0.54
1:B:1924:GLU:OE2	1:B:1929:MET:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:650:VAL:O	1:D:777:PHE:N	2.38	0.54
1:D:2096:GLU:OE1	1:D:2096:GLU:N	2.40	0.54
1:C:3201:MET:CE	1:C:3203:VAL:HG22	2.36	0.54
1:C:3282:PRO:HG3	1:C:3345:ILE:HG22	1.89	0.54
1:A:831:ARG:HH21	1:A:1199:VAL:HG21	1.73	0.54
1:A:1434:TYR:HB2	1:A:1572:ILE:HG21	1.88	0.54
1:A:3529:ASP:OD2	1:A:3595:ARG:NH2	2.41	0.54
1:A:3850:GLN:OE1	1:A:3873:LYS:NZ	2.29	0.54
1:A:4745:LEU:HA	1:A:4748:LEU:HD12	1.87	0.54
1:B:1445:PRO:HA	1:B:1448:VAL:HG12	1.89	0.54
1:B:3622:LYS:HB3	1:B:3625:SER:HB3	1.89	0.54
1:D:1924:GLU:OE2	1:D:1929:MET:N	2.41	0.54
1:D:2490:MET:HE1	1:D:2546:MET:HB3	1.89	0.54
1:D:2549:ALA:HA	1:D:2552:ARG:NH1	2.23	0.54
1:D:2562:ILE:CG2	1:D:2610:LEU:HD11	2.37	0.54
1:D:2801:ASP:OD1	1:D:2802:LYS:N	2.41	0.54
1:D:3809:ASN:ND2	1:D:3812:VAL:HG23	2.23	0.54
1:D:3966:THR:HG22	1:D:3970:GLN:OE1	2.08	0.54
1:C:548:VAL:HG21	1:C:582:HIS:CD2	2.42	0.54
1:C:874:LEU:CD2	1:C:1046:LEU:HD21	2.38	0.54
1:C:1703:LEU:HD21	1:C:1707:LEU:HB2	1.90	0.54
1:C:3465:ASN:OD1	1:C:3467:MET:HB3	2.07	0.54
1:A:2691:TYR:OH	1:A:2693:GLN:OE1	2.25	0.54
1:A:3270:ILE:HG21	1:A:3334:TRP:HE3	1.70	0.54
1:A:3282:PRO:HG3	1:A:3345:ILE:HG22	1.89	0.54
1:A:3465:ASN:OD1	1:A:3467:MET:HB3	2.07	0.54
1:A:3809:ASN:ND2	1:A:3812:VAL:HG23	2.23	0.54
1:B:1439:VAL:HG21	1:B:1448:VAL:HG11	1.88	0.54
1:B:2475:GLN:NE2	1:B:2476:ILE:O	2.40	0.54
1:D:918:ARG:O	1:D:922:LEU:HD23	2.08	0.54
1:D:4157:ASP:OD1	1:D:4160:LEU:N	2.37	0.54
1:C:3179:LYS:O	1:C:3180:ASN:OD1	2.26	0.54
1:A:12:GLN:O	1:A:165:VAL:HG23	2.07	0.54
1:A:2142:TYR:OH	1:A:3648:ARG:NH1	2.40	0.54
1:A:2724:GLU:OE1	1:A:2724:GLU:N	2.41	0.54
1:A:3966:THR:HG22	1:A:3970:GLN:OE1	2.08	0.54
1:A:4152:GLU:OE1	1:A:4194:TYR:OH	2.20	0.54
1:A:4542:GLY:O	1:A:4546:VAL:HG13	2.08	0.54
1:B:12:GLN:O	1:B:165:VAL:HG23	2.07	0.54
1:B:812:HIS:O	1:B:815:VAL:HG12	2.08	0.54
1:B:2582:MET:SD	1:B:2583:LEU:HG	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3809:ASN:ND2	1:B:3812:VAL:HG23	2.23	0.54
1:D:1610:ASN:OD1	1:D:1702:HIS:CD2	2.61	0.54
1:C:918:ARG:O	1:C:922:LEU:HD23	2.08	0.54
1:C:3966:THR:HG22	1:C:3970:GLN:OE1	2.08	0.54
1:C:4545:GLU:OE2	1:C:4548:ARG:NH2	2.33	0.54
1:A:1610:ASN:OD1	1:A:1702:HIS:CD2	2.61	0.54
1:A:3179:LYS:O	1:A:3180:ASN:OD1	2.26	0.54
1:D:548:VAL:HG21	1:D:582:HIS:CD2	2.42	0.54
1:D:879:HIS:CE1	1:D:906:CYS:SG	3.00	0.54
1:D:1445:PRO:HA	1:D:1448:VAL:HG12	1.89	0.54
1:D:1703:LEU:HD21	1:D:1707:LEU:HB2	1.90	0.54
1:D:3107:VAL:HG12	1:D:3175:LEU:HD22	1.90	0.54
1:D:4209:GLN:NE2	1:D:4210:VAL:HG23	2.22	0.54
1:A:499:THR:HG23	1:A:502:HIS:H	1.73	0.54
1:A:1141:ARG:HB2	1:D:3479:ALA:HB1	1.89	0.54
1:B:831:ARG:HH21	1:B:1199:VAL:HG21	1.73	0.54
1:B:2724:GLU:N	1:B:2724:GLU:OE1	2.41	0.54
1:B:2908:TYR:HB2	1:B:2916:LYS:HE2	1.90	0.54
1:D:3106:MET:CE	1:D:3128:ASN:ND2	2.72	0.54
1:C:1110:ARG:HB3	1:C:1112:ASP:OD1	2.07	0.54
1:C:2582:MET:SD	1:C:2583:LEU:HG	2.47	0.54
1:C:2674:LEU:HD23	1:C:2677:LYS:HZ1	1.73	0.54
1:C:2801:ASP:OD1	1:C:2802:LYS:N	2.41	0.54
1:C:3105:LYS:O	1:C:3109:ASN:ND2	2.40	0.54
1:C:4241:THR:O	1:C:4245:MET:SD	2.66	0.54
1:C:4542:GLY:O	1:C:4546:VAL:HG13	2.07	0.54
1:A:548:VAL:HA	1:A:551:LEU:HD13	1.89	0.53
1:A:1435:TYR:OH	1:A:1564:PHE:HD2	1.90	0.53
1:A:2350:ALA:O	1:A:2354:VAL:HG23	2.08	0.53
1:A:2908:TYR:HA	1:A:2911:LEU:HG	1.90	0.53
1:B:874:LEU:CD2	1:B:1046:LEU:HD21	2.38	0.53
1:B:893:TYR:O	1:B:903:LEU:HD12	2.09	0.53
1:B:2622:LEU:O	1:B:2626:LEU:HD13	2.09	0.53
1:B:2691:TYR:OH	1:B:2693:GLN:OE1	2.25	0.53
1:B:2991:HIS:O	1:B:2994:GLU:N	2.41	0.53
1:B:3107:VAL:HG12	1:B:3175:LEU:HD22	1.90	0.53
1:B:3802:ILE:HD12	1:B:3886:ARG:HG3	1.89	0.53
1:B:4157:ASP:OD1	1:B:4160:LEU:N	2.37	0.53
1:D:831:ARG:HH21	1:D:1199:VAL:HG21	1.73	0.53
1:D:1983:ALA:HA	1:D:1986:MET:HE1	1.90	0.53
1:D:1997:GLU:HG3	1:D:2008:MET:HE2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4755:GLU:O	1:D:4756:ARG:NE	2.41	0.53
1:C:3394:VAL:HG22	1:C:3398:PHE:CE1	2.43	0.53
1:A:918:ARG:O	1:A:922:LEU:HD23	2.08	0.53
1:A:2908:TYR:HB2	1:A:2916:LYS:HE2	1.90	0.53
1:A:3107:VAL:HG12	1:A:3175:LEU:HD22	1.90	0.53
1:A:3394:VAL:HG22	1:A:3398:PHE:CE1	2.43	0.53
1:A:3802:ILE:HD12	1:A:3886:ARG:HG3	1.89	0.53
1:B:3465:ASN:OD1	1:B:3467:MET:HB3	2.07	0.53
1:B:4680:LYS:HB3	1:B:4686:LEU:HD22	1.90	0.53
1:D:2894:LEU:O	1:D:2898:GLY:N	2.36	0.53
1:D:4902:GLU:OE1	1:D:4902:GLU:N	2.39	0.53
1:C:404:ILE:HG21	1:C:481:GLU:HG3	1.90	0.53
1:C:893:TYR:O	1:C:903:LEU:HD12	2.09	0.53
1:C:2549:ALA:HA	1:C:2552:ARG:NH1	2.23	0.53
1:C:2623:LEU:O	1:C:2627:VAL:HG23	2.09	0.53
1:C:4209:GLN:NE2	1:C:4210:VAL:HG23	2.22	0.53
1:A:812:HIS:O	1:A:815:VAL:HG12	2.08	0.53
1:A:2549:ALA:HA	1:A:2552:ARG:NH1	2.23	0.53
1:A:2562:ILE:HG22	1:A:2610:LEU:HD11	1.91	0.53
1:A:3432:GLU:HB3	1:A:3524:MET:HE1	1.91	0.53
1:B:499:THR:HG23	1:B:502:HIS:H	1.73	0.53
1:B:875:ALA:HB3	1:B:922:LEU:HD22	1.91	0.53
1:B:1703:LEU:HD21	1:B:1707:LEU:HB2	1.90	0.53
1:B:3529:ASP:OD2	1:B:3595:ARG:NH2	2.41	0.53
1:D:228:ASP:OD1	1:D:229:GLU:N	2.40	0.53
1:D:812:HIS:O	1:D:815:VAL:HG12	2.08	0.53
1:D:924:MET:HG3	1:D:925:SER:N	2.23	0.53
1:D:2350:ALA:O	1:D:2354:VAL:HG23	2.08	0.53
1:D:2908:TYR:HB2	1:D:2916:LYS:HE2	1.90	0.53
1:C:924:MET:HG3	1:C:925:SER:N	2.23	0.53
1:C:1924:GLU:OE2	1:C:1929:MET:N	2.41	0.53
1:C:2096:GLU:OE1	1:C:2096:GLU:N	2.40	0.53
1:C:2908:TYR:HB2	1:C:2916:LYS:HE2	1.90	0.53
1:C:3097:GLU:O	1:C:3101:GLU:OE1	2.25	0.53
1:C:3214:ASN:O	1:C:3220:THR:HG21	2.08	0.53
1:A:875:ALA:HB3	1:A:922:LEU:HD22	1.90	0.53
1:A:1703:LEU:HD21	1:A:1707:LEU:HB2	1.90	0.53
1:A:1924:GLU:OE2	1:A:1929:MET:N	2.41	0.53
1:A:2355:ARG:O	1:A:2359:ARG:HG2	2.08	0.53
1:A:3394:VAL:HG22	1:A:3398:PHE:CZ	2.44	0.53
1:B:918:ARG:O	1:B:922:LEU:HD23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2562:ILE:HG22	1:B:2610:LEU:HD11	1.91	0.53
1:B:4037:ASN:O	1:B:4042:ARG:NH2	2.40	0.53
1:D:3214:ASN:O	1:D:3220:THR:HG21	2.08	0.53
1:C:1480:GLN:HG2	1:C:1480:GLN:O	2.09	0.53
1:C:2586:VAL:CG1	1:C:2607:LEU:HD13	2.39	0.53
1:C:3270:ILE:HG21	1:C:3334:TRP:HE3	1.70	0.53
1:C:3394:VAL:HG22	1:C:3398:PHE:CZ	2.44	0.53
1:C:3802:ILE:HD12	1:C:3886:ARG:HG3	1.89	0.53
1:A:1997:GLU:HG3	1:A:2008:MET:HE2	1.90	0.53
1:A:3214:ASN:O	1:A:3220:THR:HG21	2.08	0.53
1:B:1480:GLN:O	1:B:1480:GLN:HG2	2.08	0.53
1:B:2350:ALA:O	1:B:2354:VAL:HG23	2.08	0.53
1:B:2623:LEU:O	1:B:2627:VAL:HG23	2.09	0.53
1:D:2991:HIS:O	1:D:2994:GLU:N	2.41	0.53
1:D:3394:VAL:HG22	1:D:3398:PHE:CZ	2.44	0.53
1:D:4658:ILE:HD13	1:D:4792:LEU:HB3	1.89	0.53
1:C:812:HIS:O	1:C:815:VAL:HG12	2.08	0.53
1:C:2519:LEU:HD13	1:C:2575:ARG:HG3	1.90	0.53
1:C:2971:GLN:OE1	1:C:3049:LEU:HD13	2.09	0.53
1:C:3107:VAL:HG12	1:C:3175:LEU:HD22	1.90	0.53
1:C:3529:ASP:OD2	1:C:3595:ARG:NH2	2.41	0.53
1:A:2178:MET:CE	1:A:2228:MET:HG2	2.39	0.53
1:A:3354:LEU:HD11	1:A:3434:LEU:HD22	1.91	0.53
2:F:57:ARG:O	2:F:61:GLU:OE1	2.27	0.53
1:B:309:THR:HG22	1:B:309:THR:O	2.09	0.53
1:B:2178:MET:CE	1:B:2228:MET:HG2	2.39	0.53
1:B:2355:ARG:O	1:B:2359:ARG:HG2	2.08	0.53
1:B:2971:GLN:OE1	1:B:3049:LEU:HD13	2.09	0.53
1:B:3394:VAL:HG22	1:B:3398:PHE:CZ	2.44	0.53
1:D:309:THR:HG22	1:D:309:THR:O	2.09	0.53
1:D:2674:LEU:HD23	1:D:2677:LYS:HZ1	1.73	0.53
1:D:2755:ILE:HG23	1:D:2809:ILE:HG22	1.91	0.53
1:D:3282:PRO:HG3	1:D:3345:ILE:HG22	1.89	0.53
1:D:4241:THR:O	1:D:4245:MET:SD	2.66	0.53
1:C:875:ALA:HB3	1:C:922:LEU:HD22	1.90	0.53
1:C:2355:ARG:O	1:C:2359:ARG:HG2	2.08	0.53
1:C:2908:TYR:HA	1:C:2911:LEU:HG	1.90	0.53
1:A:2519:LEU:HD13	1:A:2575:ARG:HG3	1.90	0.53
1:A:2670:GLU:OE1	1:A:2670:GLU:N	2.42	0.53
1:A:3015:LEU:O	1:A:3019:SER:N	2.37	0.53
1:A:3106:MET:CE	1:A:3128:ASN:ND2	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4127:GLU:OE1	1:A:4131:ARG:NH2	2.28	0.53
1:B:2586:VAL:CG1	1:B:2607:LEU:HD13	2.39	0.53
1:B:3966:THR:HG22	1:B:3970:GLN:OE1	2.08	0.53
1:B:4241:THR:O	1:B:4245:MET:SD	2.66	0.53
1:D:499:THR:HG23	1:D:502:HIS:H	1.73	0.53
1:D:2622:LEU:O	1:D:2626:LEU:HD13	2.09	0.53
1:D:2724:GLU:OE1	1:D:2724:GLU:N	2.41	0.53
1:C:1579:MET:HE1	1:C:1595:LEU:HD22	1.90	0.53
1:C:1610:ASN:OD1	1:C:1702:HIS:CD2	2.61	0.53
1:C:2877:GLN:O	1:C:2880:GLU:HB3	2.09	0.53
1:C:4152:GLU:OE1	1:C:4194:TYR:OH	2.20	0.53
1:B:1983:ALA:HA	1:B:1986:MET:HE1	1.90	0.53
1:B:2549:ALA:HA	1:B:2552:ARG:NH1	2.23	0.53
1:B:3282:PRO:HG3	1:B:3345:ILE:HG22	1.89	0.53
1:D:2475:GLN:NE2	1:D:2476:ILE:O	2.41	0.53
1:D:2971:GLN:OE1	1:D:3049:LEU:HD13	2.09	0.53
1:C:575:LEU:HD22	1:C:606:LEU:HA	1.91	0.53
1:C:1022:VAL:HG22	1:C:1026:LEU:HB2	1.91	0.53
1:A:360:ALA:O	1:A:361:ALA:HB3	2.09	0.53
1:A:783:PHE:HB2	1:A:787:VAL:HG11	1.91	0.53
1:B:1435:TYR:OH	1:B:1564:PHE:HD2	1.90	0.53
1:B:3179:LYS:O	1:B:3180:ASN:OD1	2.26	0.53
1:B:3394:VAL:HG22	1:B:3398:PHE:CE1	2.43	0.53
1:B:3432:GLU:HB3	1:B:3524:MET:HE1	1.91	0.53
1:D:1480:GLN:O	1:D:1480:GLN:HG2	2.09	0.53
1:D:2586:VAL:CG1	1:D:2607:LEU:HD13	2.39	0.53
1:D:3015:LEU:O	1:D:3019:SER:OG	2.18	0.53
1:C:4680:LYS:HB3	1:C:4686:LEU:HD22	1.90	0.53
1:C:4843:LEU:O	1:C:4847:VAL:HG13	2.09	0.53
1:A:924:MET:HG3	1:A:925:SER:N	2.23	0.53
1:A:2443:ILE:HG23	1:A:2454:ARG:NH1	2.24	0.53
1:A:2991:HIS:O	1:A:2994:GLU:N	2.41	0.53
1:A:4241:THR:O	1:A:4245:MET:SD	2.66	0.53
1:A:4755:GLU:O	1:A:4756:ARG:NE	2.41	0.53
1:B:125:ARG:NH2	1:B:191:VAL:O	2.32	0.53
1:B:2755:ILE:HG23	1:B:2809:ILE:HG22	1.91	0.53
1:B:4027:LEU:HD22	1:B:4044:MET:HE2	1.91	0.53
1:D:783:PHE:HB2	1:D:787:VAL:HG11	1.91	0.53
1:D:893:TYR:O	1:D:903:LEU:HD12	2.08	0.53
1:D:1446:SER:O	1:D:1496:TRP:NE1	2.37	0.53
1:D:3192:GLU:OE2	1:D:3196:ARG:NH1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4843:LEU:O	1:D:4847:VAL:HG13	2.09	0.53
1:C:369:LEU:HB2	1:C:371:VAL:HG23	1.91	0.53
1:C:783:PHE:HB2	1:C:787:VAL:HG11	1.91	0.53
1:C:2991:HIS:O	1:C:2994:GLU:N	2.41	0.53
1:A:369:LEU:CB	1:A:371:VAL:HG23	2.39	0.52
1:A:2623:LEU:O	1:A:2627:VAL:HG23	2.09	0.52
1:A:3192:GLU:OE2	1:A:3196:ARG:NH1	2.42	0.52
1:B:404:ILE:HG21	1:B:481:GLU:HG3	1.90	0.52
1:B:2443:ILE:HG23	1:B:2454:ARG:NH1	2.24	0.52
1:B:2908:TYR:HA	1:B:2911:LEU:HG	1.90	0.52
1:B:3354:LEU:HD11	1:B:3434:LEU:HD22	1.91	0.52
1:D:2562:ILE:HG22	1:D:2610:LEU:HD11	1.91	0.52
1:D:2670:GLU:OE1	1:D:2670:GLU:N	2.42	0.52
1:D:3394:VAL:HG22	1:D:3398:PHE:CE1	2.43	0.52
1:D:4680:LYS:HB3	1:D:4686:LEU:HD22	1.90	0.52
1:C:2443:ILE:HG23	1:C:2454:ARG:NH1	2.24	0.52
1:C:2755:ILE:HG23	1:C:2809:ILE:HG22	1.91	0.52
1:C:3106:MET:CE	1:C:3128:ASN:ND2	2.71	0.52
1:C:4956:THR:O	1:C:4965:SER:OG	2.28	0.52
1:A:893:TYR:O	1:A:903:LEU:HD12	2.09	0.52
1:A:2347:GLU:OE2	1:A:3852:LYS:NZ	2.39	0.52
1:A:4079:ASP:OD2	1:B:4736:ARG:NH2	2.42	0.52
1:B:118:LEU:HD23	1:B:119:SER:N	2.24	0.52
1:B:575:LEU:HD22	1:B:606:LEU:HA	1.91	0.52
1:B:783:PHE:HB2	1:B:787:VAL:HG11	1.91	0.52
1:B:1100:MET:HE3	1:B:1198:GLN:HB3	1.91	0.52
1:B:2697:ARG:HA	1:B:2700:MET:SD	2.50	0.52
1:B:2877:GLN:O	1:B:2880:GLU:HB3	2.09	0.52
1:B:3192:GLU:OE2	1:B:3196:ARG:NH1	2.42	0.52
1:B:3214:ASN:O	1:B:3220:THR:HG21	2.08	0.52
1:D:404:ILE:HG21	1:D:481:GLU:HG3	1.90	0.52
1:D:1022:VAL:HG22	1:D:1026:LEU:HB2	1.91	0.52
1:D:2178:MET:CE	1:D:2228:MET:HG2	2.39	0.52
1:D:3354:LEU:HD11	1:D:3434:LEU:HD22	1.91	0.52
1:D:3802:ILE:HD12	1:D:3886:ARG:HG3	1.89	0.52
1:C:2697:ARG:HA	1:C:2700:MET:SD	2.50	0.52
1:C:4755:GLU:O	1:C:4756:ARG:NE	2.41	0.52
1:A:575:LEU:O	1:A:578:ILE:HG22	2.09	0.52
1:B:28:VAL:O	1:B:31:GLU:N	2.29	0.52
1:B:1110:ARG:HB3	1:B:1112:ASP:OD1	2.07	0.52
1:B:2961:GLN:HA	1:B:2964:LEU:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:875:ALA:HB3	1:D:922:LEU:HD22	1.90	0.52
1:D:1100:MET:HE3	1:D:1198:GLN:HB3	1.91	0.52
1:D:2443:ILE:HG23	1:D:2454:ARG:NH1	2.24	0.52
1:C:2562:ILE:HG22	1:C:2610:LEU:HD11	1.91	0.52
1:A:300:VAL:HG12	1:A:301:VAL:N	2.24	0.52
1:A:650:VAL:O	1:A:777:PHE:N	2.38	0.52
1:A:2586:VAL:CG1	1:A:2607:LEU:HD13	2.39	0.52
1:A:2971:GLN:OE1	1:A:3049:LEU:HD13	2.09	0.52
2:E:57:ARG:O	2:E:61:GLU:OE1	2.27	0.52
2:H:82:TYR:OH	1:D:1784:ALA:O	2.23	0.52
1:D:369:LEU:HB2	1:D:371:VAL:HG23	1.91	0.52
1:D:1727:ARG:NH2	1:D:1773:PRO:O	2.43	0.52
1:D:2347:GLU:OE2	1:D:3852:LYS:NZ	2.39	0.52
1:D:2579:VAL:O	1:D:2582:MET:HG3	2.10	0.52
1:D:2908:TYR:HA	1:D:2911:LEU:HG	1.90	0.52
1:C:2350:ALA:O	1:C:2354:VAL:HG23	2.08	0.52
1:A:970:LEU:O	1:A:972:LEU:HD22	2.09	0.52
1:A:2579:VAL:O	1:A:2582:MET:HG3	2.10	0.52
1:A:2622:LEU:O	1:A:2626:LEU:HD13	2.09	0.52
1:A:3192:GLU:O	1:A:3196:ARG:HG2	2.10	0.52
1:A:4966:ASP:O	1:A:4970:THR:HG23	2.10	0.52
1:B:369:LEU:HB2	1:B:371:VAL:HG23	1.91	0.52
1:B:575:LEU:O	1:B:578:ILE:HG22	2.09	0.52
1:B:1573:MET:CE	1:B:1577:ALA:CB	2.88	0.52
1:B:1610:ASN:OD1	1:B:1702:HIS:CD2	2.61	0.52
1:B:2888:ARG:NH2	1:B:2892:GLN:OE1	2.43	0.52
1:B:3231:GLY:O	1:B:3232:LEU:HD12	2.09	0.52
1:D:360:ALA:O	1:D:361:ALA:HB3	2.09	0.52
1:D:2623:LEU:O	1:D:2627:VAL:HG23	2.09	0.52
1:D:2697:ARG:HA	1:D:2700:MET:SD	2.50	0.52
1:D:3850:GLN:OE1	1:D:3873:LYS:NZ	2.29	0.52
1:D:3969:ILE:HG21	1:D:3980:LEU:HD12	1.91	0.52
1:C:300:VAL:HG12	1:C:301:VAL:N	2.24	0.52
1:C:3699:HIS:O	1:C:3703:LEU:HD13	2.10	0.52
1:C:3969:ILE:HG21	1:C:3980:LEU:HD12	1.91	0.52
1:C:4565:LEU:O	1:C:4569:LEU:HD13	2.09	0.52
1:A:546:TRP:O	1:A:550:LYS:HG2	2.10	0.52
1:A:1936:LYS:HB3	1:A:2105:TRP:CZ3	2.45	0.52
1:A:2697:ARG:HA	1:A:2700:MET:SD	2.50	0.52
1:A:4680:LYS:HB3	1:A:4686:LEU:HD22	1.90	0.52
2:G:84:ALA:HA	2:G:94:HIS:ND1	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1236:THR:OG1	1:B:1608:MET:SD	2.54	0.52
1:B:2519:LEU:HD13	1:B:2575:ARG:HG3	1.90	0.52
1:B:3969:ILE:HG21	1:B:3980:LEU:HD12	1.91	0.52
1:B:4565:LEU:O	1:B:4569:LEU:HD13	2.09	0.52
1:B:4755:GLU:O	1:B:4756:ARG:NE	2.41	0.52
1:B:4852:THR:HG23	1:B:4882:CYS:SG	2.50	0.52
1:D:1936:LYS:HB3	1:D:2105:TRP:CZ3	2.45	0.52
1:D:2146:PRO:O	1:D:2149:VAL:HG22	2.10	0.52
1:D:2519:LEU:HD13	1:D:2575:ARG:HG3	1.90	0.52
1:D:2877:GLN:O	1:D:2880:GLU:HB3	2.09	0.52
1:D:2961:GLN:HA	1:D:2964:LEU:HD12	1.92	0.52
1:D:3231:GLY:O	1:D:3232:LEU:HD12	2.10	0.52
1:C:575:LEU:O	1:C:578:ILE:HG22	2.09	0.52
1:C:831:ARG:HH21	1:C:1199:VAL:HG21	1.73	0.52
1:C:1997:GLU:HG3	1:C:2008:MET:HE2	1.90	0.52
1:C:2121:PHE:O	1:C:3725:TYR:OH	2.27	0.52
1:C:2622:LEU:O	1:C:2626:LEU:HD13	2.09	0.52
1:C:3137:LEU:HD22	1:C:3189:ALA:HB1	1.91	0.52
1:C:3231:GLY:O	1:C:3232:LEU:HD12	2.10	0.52
1:C:3412:LEU:HD11	1:C:3434:LEU:HD21	1.92	0.52
2:G:57:ARG:O	2:G:61:GLU:OE1	2.27	0.52
1:B:451:TYR:CE2	1:B:474:ARG:HD2	2.45	0.52
1:B:970:LEU:O	1:B:972:LEU:HD22	2.10	0.52
1:B:1936:LYS:HB3	1:B:2105:TRP:CZ3	2.45	0.52
1:B:1997:GLU:HG3	1:B:2008:MET:HE2	1.91	0.52
1:B:3106:MET:CE	1:B:3128:ASN:ND2	2.72	0.52
1:B:4820:VAL:HG11	1:C:4839:MET:HE1	1.91	0.52
1:D:575:LEU:O	1:D:578:ILE:HG22	2.09	0.52
1:D:2215:LEU:HD23	1:D:2223:ILE:HD11	1.92	0.52
1:D:3137:LEU:HD22	1:D:3189:ALA:HB1	1.91	0.52
1:C:369:LEU:CB	1:C:371:VAL:HG23	2.39	0.52
1:C:2961:GLN:HA	1:C:2964:LEU:HD12	1.92	0.52
1:C:3354:LEU:HD11	1:C:3434:LEU:HD22	1.91	0.52
1:C:5014:TYR:CE2	6:C:5304:A1BD2:C1	2.93	0.52
1:A:404:ILE:HG21	1:A:481:GLU:HG3	1.90	0.52
1:A:451:TYR:CE2	1:A:474:ARG:HD2	2.45	0.52
1:A:1573:MET:CE	1:A:1577:ALA:CB	2.88	0.52
1:A:1727:ARG:NH2	1:A:1773:PRO:O	2.43	0.52
1:A:2755:ILE:HG23	1:A:2809:ILE:HG22	1.91	0.52
1:A:3720:TYR:HA	1:A:3723:MET:HE3	1.91	0.52
2:H:57:ARG:O	2:H:61:GLU:OE1	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:300:VAL:HG12	1:B:301:VAL:N	2.24	0.52
1:B:4843:LEU:O	1:B:4847:VAL:HG13	2.09	0.52
1:D:3192:GLU:O	1:D:3196:ARG:HG2	2.10	0.52
1:D:4966:ASP:O	1:D:4970:THR:HG23	2.10	0.52
1:D:5014:TYR:CE2	6:D:5304:A1BD2:C1	2.93	0.52
1:C:118:LEU:HD23	1:C:119:SER:N	2.24	0.52
1:C:1936:LYS:HB3	1:C:2105:TRP:CZ3	2.45	0.52
1:C:2146:PRO:O	1:C:2149:VAL:HG22	2.10	0.52
1:C:3192:GLU:O	1:C:3196:ARG:HG2	2.10	0.52
1:C:3249:LEU:HD21	1:C:3273:THR:CG2	2.40	0.52
1:A:309:THR:O	1:A:309:THR:HG22	2.09	0.52
1:A:874:LEU:CD2	1:A:1046:LEU:HD21	2.38	0.52
1:A:1480:GLN:O	1:A:1480:GLN:HG2	2.09	0.52
1:A:2961:GLN:HA	1:A:2964:LEU:HD12	1.92	0.52
1:A:3231:GLY:O	1:A:3232:LEU:HD12	2.10	0.52
1:A:3249:LEU:HD11	1:A:3273:THR:HG21	1.92	0.52
1:A:3357:HIS:O	1:A:3361:THR:HG23	2.10	0.52
1:A:3412:LEU:HD11	1:A:3434:LEU:HD21	1.92	0.52
1:A:3699:HIS:O	1:A:3703:LEU:HD13	2.10	0.52
1:B:360:ALA:O	1:B:361:ALA:HB3	2.09	0.52
1:B:369:LEU:CB	1:B:371:VAL:HG23	2.39	0.52
1:B:3249:LEU:HD21	1:B:3273:THR:CG2	2.40	0.52
1:D:3412:LEU:HD11	1:D:3434:LEU:HD21	1.92	0.52
1:D:3500:GLY:O	1:D:3504:SER:OG	2.25	0.52
1:C:650:VAL:O	1:C:777:PHE:N	2.38	0.52
1:C:1727:ARG:NH2	1:C:1773:PRO:O	2.43	0.52
1:C:3106:MET:HE3	1:C:3128:ASN:ND2	2.25	0.52
1:C:3192:GLU:OE2	1:C:3196:ARG:NH1	2.42	0.52
1:A:2012:PHE:HZ	1:A:2031:LEU:HD23	1.75	0.52
1:A:2215:LEU:HD23	1:A:2223:ILE:HD11	1.92	0.52
2:E:49:MET:HB3	2:E:52:LYS:CE	2.40	0.52
1:B:3266:MET:HG2	1:B:3266:MET:O	2.10	0.52
1:B:3699:HIS:O	1:B:3703:LEU:HD13	2.10	0.52
1:B:4127:GLU:OE1	1:B:4131:ARG:NH2	2.28	0.52
1:D:369:LEU:CB	1:D:371:VAL:HG23	2.39	0.52
1:D:546:TRP:O	1:D:550:LYS:HG2	2.10	0.52
1:D:972:LEU:CD1	1:D:1044:ARG:HG2	2.40	0.52
1:D:2431:ASP:O	1:D:2435:ARG:HG2	2.11	0.52
1:D:3230:LEU:CD1	1:D:3232:LEU:HD13	2.40	0.52
1:D:3357:HIS:O	1:D:3361:THR:HG23	2.10	0.52
1:D:3699:HIS:O	1:D:3703:LEU:HD13	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4545:GLU:OE2	1:D:4548:ARG:NH2	2.33	0.52
1:C:1771:LEU:HB3	1:C:2153:MET:CE	2.40	0.52
1:C:2215:LEU:HD23	1:C:2223:ILE:HD11	1.92	0.52
1:A:118:LEU:HD23	1:A:119:SER:N	2.25	0.51
1:A:2121:PHE:O	1:A:3725:TYR:OH	2.27	0.51
1:A:2210:VAL:O	1:A:2214:VAL:HG23	2.10	0.51
1:A:2431:ASP:O	1:A:2435:ARG:HG2	2.11	0.51
1:A:2877:GLN:O	1:A:2880:GLU:HB3	2.09	0.51
1:A:3266:MET:O	1:A:3266:MET:HG2	2.10	0.51
1:A:3524:MET:HG2	1:A:3595:ARG:HD2	1.93	0.51
1:A:4222:VAL:HG11	1:A:4950:VAL:HA	1.92	0.51
1:A:4565:LEU:O	1:A:4569:LEU:HD13	2.09	0.51
1:A:4956:THR:O	1:A:4965:SER:OG	2.28	0.51
1:B:242:ARG:HD3	1:B:287:THR:HG22	1.92	0.51
1:B:2670:GLU:OE1	1:B:2670:GLU:N	2.42	0.51
1:D:451:TYR:CE2	1:D:474:ARG:HD2	2.45	0.51
1:D:509:GLU:O	1:D:513:GLU:OE1	2.29	0.51
1:D:927:GLU:O	1:D:931:THR:HG23	2.11	0.51
1:D:4222:VAL:HG11	1:D:4950:VAL:HA	1.92	0.51
1:D:4565:LEU:O	1:D:4569:LEU:HD13	2.09	0.51
1:D:4852:THR:HG23	1:D:4882:CYS:SG	2.50	0.51
1:C:4157:ASP:OD1	1:C:4160:LEU:N	2.38	0.51
1:C:4852:THR:HG23	1:C:4882:CYS:SG	2.50	0.51
1:A:1022:VAL:HG22	1:A:1026:LEU:HB2	1.91	0.51
1:A:1771:LEU:HB3	1:A:2153:MET:CE	2.40	0.51
1:A:2146:PRO:O	1:A:2149:VAL:HG22	2.10	0.51
1:B:638:ILE:HD13	1:B:702:TRP:O	2.11	0.51
1:B:1727:ARG:NH2	1:B:1773:PRO:O	2.43	0.51
1:B:3137:LEU:HD22	1:B:3189:ALA:HB1	1.91	0.51
1:B:3175:LEU:O	1:B:3178:THR:HG22	2.11	0.51
1:B:3357:HIS:O	1:B:3361:THR:HG23	2.10	0.51
1:B:3571:TRP:CE2	1:C:1228:ILE:HD11	2.44	0.51
1:D:43:GLY:C	1:D:443:LEU:HD23	2.31	0.51
1:D:575:LEU:HD22	1:D:606:LEU:HA	1.91	0.51
1:D:2821:TRP:CH2	1:D:2877:GLN:OE1	2.63	0.51
1:D:4686:LEU:O	1:D:4691:GLN:N	2.33	0.51
1:D:4976:GLU:O	1:D:4980:LEU:HD23	2.11	0.51
1:C:43:GLY:C	1:C:443:LEU:HD23	2.31	0.51
1:C:451:TYR:CE2	1:C:474:ARG:HD2	2.45	0.51
1:C:1105:ALA:O	1:C:1189:LEU:N	2.41	0.51
1:C:1573:MET:CE	1:C:1577:ALA:CB	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3175:LEU:O	1:C:3178:THR:HG22	2.11	0.51
1:A:575:LEU:HD22	1:A:606:LEU:HA	1.91	0.51
1:A:927:GLU:O	1:A:931:THR:HG23	2.11	0.51
1:A:972:LEU:CD1	1:A:1044:ARG:HG2	2.40	0.51
1:A:1436:SER:OG	1:A:1565:GLU:HB2	2.11	0.51
1:A:3299:GLY:O	1:A:3300:ALA:HB2	2.10	0.51
1:B:2431:ASP:O	1:B:2435:ARG:HG2	2.11	0.51
1:B:2821:TRP:CH2	1:B:2877:GLN:OE1	2.63	0.51
1:B:3106:MET:HE1	1:B:3128:ASN:ND2	2.25	0.51
1:B:3405:LEU:HD22	1:B:3409:TYR:CE2	2.46	0.51
1:D:300:VAL:HG12	1:D:301:VAL:N	2.25	0.51
1:D:970:LEU:O	1:D:972:LEU:HD22	2.10	0.51
1:D:2012:PHE:HZ	1:D:2031:LEU:HD23	1.75	0.51
1:D:2355:ARG:O	1:D:2359:ARG:HG2	2.08	0.51
1:C:3500:GLY:O	1:C:3504:SER:OG	2.25	0.51
1:A:3230:LEU:CD1	1:A:3232:LEU:HD13	2.41	0.51
1:A:3969:ILE:HG21	1:A:3980:LEU:HD12	1.91	0.51
1:A:4843:LEU:O	1:A:4847:VAL:HG13	2.09	0.51
1:A:4976:GLU:O	1:A:4980:LEU:HD23	2.11	0.51
2:H:84:ALA:HA	2:H:94:HIS:ND1	2.25	0.51
1:B:1245:PHE:CD2	1:B:1600:LEU:HD13	2.46	0.51
1:B:2146:PRO:O	1:B:2149:VAL:HG22	2.10	0.51
1:B:3412:LEU:HD11	1:B:3434:LEU:HD21	1.92	0.51
1:D:118:LEU:HD23	1:D:119:SER:N	2.24	0.51
1:C:309:THR:O	1:C:309:THR:HG22	2.09	0.51
1:C:2579:VAL:O	1:C:2582:MET:HG3	2.10	0.51
1:A:1446:SER:O	1:A:1496:TRP:NE1	2.37	0.51
1:A:2821:TRP:CH2	1:A:2877:GLN:OE1	2.63	0.51
1:A:4545:GLU:OE2	1:A:4548:ARG:NH2	2.33	0.51
2:G:49:MET:HB3	2:G:52:LYS:CE	2.40	0.51
1:B:3524:MET:HG2	1:B:3595:ARG:HD2	1.93	0.51
1:D:1110:ARG:CB	1:D:1112:ASP:OD1	2.59	0.51
1:D:1573:MET:CE	1:D:1577:ALA:CB	2.88	0.51
1:D:2210:VAL:O	1:D:2214:VAL:HG23	2.10	0.51
1:D:3266:MET:O	1:D:3266:MET:HG2	2.10	0.51
1:D:3930:ILE:CG2	1:D:3995:VAL:HG11	2.41	0.51
1:D:4956:THR:O	1:D:4965:SER:OG	2.28	0.51
1:C:970:LEU:O	1:C:972:LEU:HD22	2.09	0.51
1:C:1110:ARG:CB	1:C:1112:ASP:OD1	2.59	0.51
1:C:1245:PHE:CD2	1:C:1600:LEU:HD13	2.46	0.51
1:C:1436:SER:OG	1:C:1565:GLU:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2178:MET:CE	1:C:2228:MET:HG2	2.39	0.51
1:C:2431:ASP:O	1:C:2435:ARG:HG2	2.11	0.51
1:C:3226:GLU:O	1:C:3227:ARG:HG2	2.11	0.51
1:C:3930:ILE:CG2	1:C:3995:VAL:HG11	2.41	0.51
1:C:4976:GLU:O	1:C:4980:LEU:HD23	2.11	0.51
1:A:242:ARG:HD3	1:A:287:THR:HG22	1.92	0.51
1:A:369:LEU:HB2	1:A:371:VAL:HG23	1.91	0.51
1:A:3930:ILE:CG2	1:A:3995:VAL:HG11	2.41	0.51
1:A:4944:ARG:NE	1:B:4938:ASP:OD2	2.41	0.51
2:H:49:MET:HG3	2:H:52:LYS:HZ1	1.75	0.51
2:H:49:MET:HB3	2:H:52:LYS:CE	2.40	0.51
1:B:2579:VAL:O	1:B:2582:MET:HG3	2.10	0.51
1:B:3321:ARG:O	1:B:3325:ASN:ND2	2.44	0.51
1:D:1436:SER:OG	1:D:1565:GLU:HB2	2.11	0.51
1:D:3525:CYS:SG	1:D:3599:VAL:HG21	2.50	0.51
1:C:360:ALA:O	1:C:361:ALA:HB3	2.09	0.51
1:C:972:LEU:CD1	1:C:1044:ARG:HG2	2.41	0.51
1:C:2210:VAL:O	1:C:2214:VAL:HG23	2.10	0.51
1:C:2214:VAL:HG21	1:C:2228:MET:CE	2.41	0.51
1:C:2767:ALA:HA	1:C:2791:LEU:HD11	1.93	0.51
1:A:3175:LEU:O	1:A:3178:THR:HG22	2.11	0.51
1:A:3957:VAL:O	1:A:3961:VAL:HG23	2.11	0.51
1:A:4580:TYR:O	1:B:4879:MET:HG2	2.10	0.51
2:F:49:MET:HB3	2:F:52:LYS:CE	2.40	0.51
1:B:509:GLU:O	1:B:513:GLU:OE1	2.29	0.51
1:B:2214:VAL:HG21	1:B:2228:MET:CE	2.41	0.51
1:B:2285:GLU:H	1:B:3858:MET:HE1	1.74	0.51
1:B:3192:GLU:O	1:B:3196:ARG:HG2	2.10	0.51
1:B:3299:GLY:O	1:B:3300:ALA:HB2	2.11	0.51
1:B:4976:GLU:O	1:B:4980:LEU:HD23	2.11	0.51
1:B:5014:TYR:CE2	6:B:5304:A1BD2:C1	2.93	0.51
1:D:1771:LEU:HB3	1:D:2153:MET:CE	2.40	0.51
1:D:4152:GLU:OE1	1:D:4194:TYR:OH	2.20	0.51
1:C:242:ARG:HD3	1:C:287:THR:HG22	1.92	0.51
1:C:927:GLU:O	1:C:931:THR:HG23	2.11	0.51
1:C:3432:GLU:HB3	1:C:3524:MET:CE	2.41	0.51
1:A:1100:MET:HE3	1:A:1198:GLN:HB3	1.91	0.51
1:A:3525:CYS:SG	1:A:3599:VAL:HG21	2.50	0.51
1:B:730:VAL:HA	1:B:1476:MET:HE1	1.92	0.51
1:B:1022:VAL:HG22	1:B:1026:LEU:HB2	1.91	0.51
1:B:1110:ARG:CB	1:B:1112:ASP:OD1	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2199:ARG:NH2	1:B:2246:ASN:OD1	2.44	0.51
1:B:2767:ALA:HA	1:B:2791:LEU:HD11	1.93	0.51
1:B:3230:LEU:CD1	1:B:3232:LEU:HD13	2.40	0.51
1:B:3930:ILE:CG2	1:B:3995:VAL:HG11	2.41	0.51
1:D:887:ILE:HG23	1:D:959:TYR:CD2	2.46	0.51
1:D:2523:ASP:OD1	1:D:2524:VAL:N	2.44	0.51
1:D:3270:ILE:HG21	1:D:3334:TRP:HE3	1.70	0.51
1:C:504:ALA:HB2	1:C:512:ALA:CB	2.40	0.51
1:C:509:GLU:O	1:C:513:GLU:OE1	2.29	0.51
1:C:3525:CYS:SG	1:C:3599:VAL:HG21	2.50	0.51
1:C:4966:ASP:O	1:C:4970:THR:HG23	2.10	0.51
1:A:638:ILE:HD13	1:A:702:TRP:O	2.11	0.51
1:A:1983:ALA:HA	1:A:1986:MET:HE1	1.92	0.51
1:A:3321:ARG:O	1:A:3325:ASN:ND2	2.44	0.51
1:B:3955:MET:HE2	1:B:4015:GLU:HG2	1.93	0.51
1:D:242:ARG:HD3	1:D:287:THR:HG22	1.92	0.51
1:D:2199:ARG:NH2	1:D:2246:ASN:OD1	2.44	0.51
1:D:3226:GLU:O	1:D:3227:ARG:HG2	2.11	0.51
1:C:1446:SER:O	1:C:1496:TRP:NE1	2.37	0.51
1:C:2821:TRP:CH2	1:C:2877:GLN:OE1	2.63	0.51
1:C:3266:MET:O	1:C:3266:MET:HG2	2.10	0.51
1:C:4157:ASP:OD2	1:C:4159:ARG:NH2	2.40	0.51
1:A:43:GLY:C	1:A:443:LEU:HD23	2.31	0.51
1:A:1245:PHE:CD2	1:A:1600:LEU:HD13	2.46	0.51
1:A:2214:VAL:HG21	1:A:2228:MET:CE	2.41	0.51
1:A:2274:ASP:OD1	1:A:2274:ASP:C	2.50	0.51
1:A:2888:ARG:NH2	1:A:2892:GLN:OE1	2.43	0.51
1:A:3405:LEU:HD22	1:A:3409:TYR:CE2	2.46	0.51
1:A:4852:THR:HG23	1:A:4882:CYS:SG	2.50	0.51
1:A:5014:TYR:CE2	6:A:5304:A1BD2:C1	2.93	0.51
2:F:84:ALA:HA	2:F:94:HIS:ND1	2.25	0.51
1:B:43:GLY:C	1:B:443:LEU:HD23	2.31	0.51
1:B:101:LEU:C	1:B:102:LEU:HD12	2.32	0.51
1:B:504:ALA:HB2	1:B:512:ALA:CB	2.41	0.51
1:B:546:TRP:O	1:B:550:LYS:HG2	2.10	0.51
1:B:2384:ILE:HG22	1:B:2388:GLU:OE2	2.11	0.51
1:B:3106:MET:HE1	1:B:3128:ASN:HD22	1.76	0.51
1:B:3270:ILE:HG21	1:B:3334:TRP:HE3	1.70	0.51
1:B:4966:ASP:O	1:B:4970:THR:HG23	2.10	0.51
1:D:2214:VAL:HG21	1:D:2228:MET:HE2	1.93	0.51
1:D:2274:ASP:OD1	1:D:2274:ASP:C	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3137:LEU:HB3	1:D:3138:PRO:HD3	1.93	0.51
1:D:3432:GLU:HB3	1:D:3524:MET:CE	2.41	0.51
1:C:546:TRP:O	1:C:550:LYS:HG2	2.10	0.51
1:C:1461:ASP:OD2	1:C:1468:LYS:NZ	2.39	0.51
1:C:3160:ASP:OD2	1:C:3161:VAL:N	2.44	0.51
1:C:3249:LEU:HD11	1:C:3273:THR:HG21	1.92	0.51
1:C:3546:ASP:O	1:C:3550:ARG:NE	2.35	0.51
1:A:3729:MET:HE2	1:A:3770:LEU:CD2	2.41	0.50
1:B:1771:LEU:HB3	1:B:2153:MET:CE	2.40	0.50
1:B:2210:VAL:O	1:B:2214:VAL:HG23	2.10	0.50
1:B:2739:PRO:HG3	1:B:2885:THR:HA	1.94	0.50
1:B:2806:ARG:O	1:B:2810:LYS:N	2.32	0.50
1:B:3427:PRO:CD	1:B:3579:LEU:HD21	2.41	0.50
1:B:3957:VAL:O	1:B:3961:VAL:HG23	2.11	0.50
1:B:4956:THR:O	1:B:4965:SER:OG	2.28	0.50
1:D:792:LEU:HD23	1:D:799:GLU:O	2.11	0.50
1:D:2767:ALA:HA	1:D:2791:LEU:HD11	1.93	0.50
1:D:3249:LEU:HD11	1:D:3273:THR:HG21	1.92	0.50
1:D:3249:LEU:HD21	1:D:3273:THR:CG2	2.40	0.50
1:C:1230:MET:HE1	1:C:1234:VAL:HG22	1.93	0.50
1:C:2012:PHE:HZ	1:C:2031:LEU:HD23	1.75	0.50
1:C:2274:ASP:OD1	1:C:2274:ASP:C	2.50	0.50
1:C:4222:VAL:HG11	1:C:4950:VAL:HA	1.92	0.50
1:A:2739:PRO:HG3	1:A:2885:THR:HA	1.94	0.50
1:A:4750:ILE:HA	1:A:4753:HIS:CD2	2.47	0.50
2:H:37:ASP:OD1	2:H:42:ARG:NH1	2.43	0.50
1:B:2725:LYS:HD2	1:B:2736:ASP:OD1	2.11	0.50
1:B:2973:PHE:HA	1:B:2976:HIS:CD2	2.47	0.50
1:B:3729:MET:HE2	1:B:3770:LEU:CD2	2.40	0.50
1:D:2214:VAL:HG21	1:D:2228:MET:CE	2.41	0.50
1:D:2381:GLU:HB3	1:D:2385:ARG:NH1	2.26	0.50
1:D:2764:GLU:HB3	1:D:2857:PRO:HB3	1.94	0.50
1:D:4157:ASP:N	1:D:4161:ARG:NH1	2.59	0.50
1:D:4750:ILE:HA	1:D:4753:HIS:CD2	2.47	0.50
1:C:3106:MET:N	1:C:3106:MET:HE2	2.27	0.50
1:C:3524:MET:HG2	1:C:3595:ARG:HD2	1.92	0.50
1:C:3850:GLN:OE1	1:C:3873:LYS:NZ	2.29	0.50
1:C:4985:LEU:HD12	1:C:4986:ALA:N	2.27	0.50
1:A:553:ARG:NE	1:A:555:GLU:OE2	2.44	0.50
1:A:2495:VAL:HG22	1:A:2498:HIS:ND1	2.27	0.50
1:A:2523:ASP:OD1	1:A:2524:VAL:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2764:GLU:HB3	1:A:2857:PRO:HB3	1.94	0.50
1:B:2774:ASN:ND2	1:C:1506:GLN:O	2.41	0.50
1:B:3226:GLU:O	1:B:3227:ARG:HG2	2.11	0.50
1:B:3249:LEU:HD11	1:B:3273:THR:HG21	1.92	0.50
1:B:3432:GLU:HB3	1:B:3524:MET:CE	2.41	0.50
1:D:1699:GLU:HA	1:D:1814:MET:HE2	1.93	0.50
1:D:1862:ILE:HA	1:D:1865:MET:SD	2.52	0.50
1:D:2716:ASP:OD1	1:D:2717:ALA:N	2.45	0.50
1:D:3175:LEU:O	1:D:3178:THR:HG22	2.11	0.50
1:D:3299:GLY:O	1:D:3300:ALA:HB2	2.11	0.50
1:C:1862:ILE:HA	1:C:1865:MET:SD	2.52	0.50
1:C:2725:LYS:HD2	1:C:2736:ASP:OD1	2.11	0.50
1:C:3321:ARG:O	1:C:3325:ASN:ND2	2.44	0.50
1:C:3405:LEU:HD22	1:C:3409:TYR:CE2	2.46	0.50
1:C:3427:PRO:CD	1:C:3579:LEU:HD21	2.41	0.50
1:A:1110:ARG:CB	1:A:1112:ASP:OD1	2.59	0.50
1:A:1230:MET:HE1	1:A:1234:VAL:HG22	1.94	0.50
1:A:2979:ALA:O	1:A:2982:SER:OG	2.22	0.50
1:A:3137:LEU:HD22	1:A:3189:ALA:HB1	1.91	0.50
1:A:3562:LYS:HZ2	1:A:3565:GLY:N	2.10	0.50
2:E:84:ALA:HA	2:E:94:HIS:ND1	2.25	0.50
2:E:102:GLU:OE2	2:E:104:LEU:HG	2.12	0.50
1:B:927:GLU:O	1:B:931:THR:HG23	2.11	0.50
1:B:3137:LEU:HB3	1:B:3138:PRO:HD3	1.93	0.50
1:B:3160:ASP:OD2	1:B:3161:VAL:N	2.44	0.50
1:B:3525:CYS:SG	1:B:3599:VAL:HG21	2.50	0.50
1:B:3850:GLN:OE1	1:B:3873:LYS:NZ	2.29	0.50
1:B:4985:LEU:HD12	1:B:4986:ALA:N	2.27	0.50
1:D:2888:ARG:NH2	1:D:2892:GLN:OE1	2.43	0.50
1:D:3321:ARG:O	1:D:3325:ASN:ND2	2.44	0.50
1:D:4885:PHE:HE2	1:D:4897:ILE:HD11	1.73	0.50
1:C:3696:ASP:OD2	1:C:3773:ARG:NH1	2.45	0.50
1:A:632:LEU:O	1:A:634:GLN:NE2	2.45	0.50
1:A:792:LEU:HD23	1:A:799:GLU:O	2.11	0.50
1:A:2742:THR:CG2	1:A:2814:LYS:HB3	2.41	0.50
1:A:2758:PHE:CE2	1:A:2926:LEU:HD13	2.47	0.50
1:A:3160:ASP:OD2	1:A:3161:VAL:N	2.44	0.50
1:B:672:VAL:O	1:B:680:THR:OG1	2.24	0.50
1:B:792:LEU:HD23	1:B:799:GLU:O	2.11	0.50
1:B:1446:SER:O	1:B:1496:TRP:NE1	2.37	0.50
1:B:1453:VAL:HG12	1:B:1492:CYS:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1862:ILE:HA	1:B:1865:MET:SD	2.52	0.50
1:D:1105:ALA:O	1:D:1189:LEU:N	2.41	0.50
1:D:1240:LYS:O	1:D:1603:VAL:HA	2.11	0.50
1:D:3524:MET:HG2	1:D:3595:ARG:HD2	1.93	0.50
1:C:1453:VAL:HG12	1:C:1492:CYS:HB2	1.94	0.50
1:C:2214:VAL:HB	1:C:2228:MET:HE1	1.94	0.50
1:C:2381:GLU:HB3	1:C:2385:ARG:NH1	2.26	0.50
1:C:2495:VAL:HG22	1:C:2498:HIS:ND1	2.27	0.50
1:C:3357:HIS:O	1:C:3361:THR:HG23	2.10	0.50
1:A:101:LEU:C	1:A:102:LEU:HD12	2.32	0.50
1:A:1240:LYS:O	1:A:1603:VAL:HA	2.11	0.50
1:A:1506:GLN:O	1:D:2774:ASN:ND2	2.40	0.50
1:A:2475:GLN:OE1	1:A:2488:PRO:HG3	2.12	0.50
1:A:2674:LEU:HA	1:A:2677:LYS:CE	2.41	0.50
1:A:3427:PRO:CD	1:A:3579:LEU:HD21	2.41	0.50
1:A:3531:ASP:O	1:A:3535:LEU:HG	2.12	0.50
2:G:37:ASP:OD1	2:G:42:ARG:NH1	2.43	0.50
1:B:368:ARG:NH2	1:B:2308:GLN:HB2	2.27	0.50
1:B:776:LEU:HD21	1:B:848:HIS:HA	1.94	0.50
1:B:1240:LYS:O	1:B:1603:VAL:HA	2.11	0.50
1:B:1436:SER:OG	1:B:1565:GLU:HB2	2.11	0.50
1:B:2214:VAL:HB	1:B:2228:MET:HE1	1.94	0.50
1:B:2381:GLU:HB3	1:B:2385:ARG:NH1	2.26	0.50
1:B:2887:GLY:HA3	1:B:2905:LEU:HD22	1.94	0.50
1:B:2979:ALA:O	1:B:2982:SER:OG	2.22	0.50
1:B:4222:VAL:HG11	1:B:4950:VAL:HA	1.92	0.50
1:B:5032:TYR:O	1:B:5036:LEU:N	2.37	0.50
1:D:638:ILE:HD13	1:D:702:TRP:O	2.11	0.50
1:D:874:LEU:CD2	1:D:1046:LEU:HD21	2.38	0.50
1:D:2121:PHE:O	1:D:3725:TYR:OH	2.27	0.50
1:D:2214:VAL:HB	1:D:2228:MET:HE1	1.94	0.50
1:D:2758:PHE:CE2	1:D:2926:LEU:HD13	2.47	0.50
1:D:2779:GLU:O	1:D:2792:ARG:NH1	2.45	0.50
1:D:3160:ASP:OD2	1:D:3161:VAL:N	2.44	0.50
1:D:3405:LEU:HD22	1:D:3409:TYR:CE2	2.46	0.50
1:D:4985:LEU:HD12	1:D:4986:ALA:N	2.27	0.50
1:C:792:LEU:HD23	1:C:799:GLU:O	2.11	0.50
1:C:887:ILE:HG23	1:C:959:TYR:CD2	2.46	0.50
1:C:1240:LYS:O	1:C:1603:VAL:HA	2.11	0.50
1:A:1862:ILE:HA	1:A:1865:MET:SD	2.52	0.50
1:A:3104:GLU:HA	1:A:3107:VAL:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:972:LEU:CD1	1:B:1044:ARG:HG2	2.41	0.50
1:B:2475:GLN:OE1	1:B:2488:PRO:HG3	2.12	0.50
1:B:2530:MET:SD	1:B:2554:LEU:CD2	3.00	0.50
1:D:776:LEU:HD21	1:D:848:HIS:HA	1.94	0.50
1:D:1245:PHE:CD2	1:D:1600:LEU:HD13	2.46	0.50
1:C:1100:MET:HE3	1:C:1198:GLN:HB3	1.93	0.50
1:C:2199:ARG:NH2	1:C:2246:ASN:OD1	2.44	0.50
1:C:2758:PHE:CE2	1:C:2926:LEU:HD13	2.47	0.50
1:C:2779:GLU:O	1:C:2792:ARG:NH1	2.45	0.50
1:C:2822:THR:OG1	1:C:2938:THR:OG1	2.30	0.50
1:C:2973:PHE:HA	1:C:2976:HIS:CD2	2.47	0.50
1:C:3039:ILE:HG12	1:C:3071:LEU:HD11	1.94	0.50
1:C:4885:PHE:HE2	1:C:4897:ILE:HD11	1.74	0.50
1:A:509:GLU:O	1:A:513:GLU:OE1	2.29	0.50
1:A:776:LEU:HD21	1:A:848:HIS:HA	1.94	0.50
1:A:887:ILE:HG23	1:A:959:TYR:CD2	2.46	0.50
1:A:2199:ARG:NH2	1:A:2246:ASN:OD1	2.44	0.50
1:A:2381:GLU:HB3	1:A:2385:ARG:NH1	2.26	0.50
1:A:3249:LEU:HD21	1:A:3273:THR:CG2	2.40	0.50
1:A:3432:GLU:HB3	1:A:3524:MET:CE	2.41	0.50
1:A:3568:SER:C	1:A:3572:GLN:OE1	2.51	0.50
1:A:4632:LEU:HD12	1:A:4640:GLU:HG3	1.94	0.50
1:B:2495:VAL:HG22	1:B:2498:HIS:ND1	2.27	0.50
1:B:2523:ASP:OD1	1:B:2524:VAL:N	2.44	0.50
1:B:2822:THR:OG1	1:B:2938:THR:OG1	2.30	0.50
1:C:776:LEU:HD21	1:C:848:HIS:HA	1.94	0.50
1:C:3957:VAL:O	1:C:3961:VAL:HG23	2.11	0.50
1:A:616:SER:O	1:A:620:LEU:HG	2.12	0.50
1:A:1453:VAL:HG12	1:A:1492:CYS:HB2	1.94	0.50
1:A:2641:LEU:HD13	1:A:2698:MET:HG3	1.94	0.50
1:A:2684:ASP:O	1:A:2688:HIS:ND1	2.35	0.50
1:A:2887:GLY:HA3	1:A:2905:LEU:HD22	1.94	0.50
1:A:3137:LEU:HB3	1:A:3138:PRO:HD3	1.93	0.50
1:A:3415:TYR:O	1:A:3419:ASN:ND2	2.35	0.50
2:E:90:ILE:HG22	2:E:91:ILE:HG13	1.94	0.50
2:H:102:GLU:OE2	2:H:104:LEU:HG	2.12	0.50
1:B:553:ARG:NE	1:B:555:GLU:OE2	2.44	0.50
1:B:650:VAL:O	1:B:777:PHE:N	2.38	0.50
1:B:2716:ASP:OD1	1:B:2717:ALA:N	2.45	0.50
1:B:3039:ILE:HG12	1:B:3071:LEU:HD11	1.94	0.50
1:B:3100:SER:O	1:B:3103:ILE:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3100:SER:O	1:D:3103:ILE:N	2.45	0.50
1:D:3274:LEU:HD22	1:D:3319:ILE:HD11	1.94	0.50
1:C:2384:ILE:HG22	1:C:2388:GLU:OE2	2.11	0.50
1:C:2475:GLN:OE1	1:C:2488:PRO:HG3	2.12	0.50
1:C:2716:ASP:OD1	1:C:2717:ALA:N	2.45	0.50
1:C:2739:PRO:HG3	1:C:2885:THR:HA	1.93	0.50
1:C:3230:LEU:CD1	1:C:3232:LEU:HD13	2.40	0.50
1:C:4134:GLU:HB2	1:C:4135:PRO:HD3	1.94	0.50
1:A:368:ARG:NH2	1:A:2308:GLN:HB2	2.27	0.49
1:A:2384:ILE:HG22	1:A:2388:GLU:OE2	2.11	0.49
1:A:2822:THR:OG1	1:A:2938:THR:OG1	2.30	0.49
2:E:49:MET:HG3	2:E:52:LYS:HZ3	1.75	0.49
1:B:244:LEU:HD22	1:B:375:LYS:HE2	1.94	0.49
1:B:887:ILE:HG23	1:B:959:TYR:CD2	2.46	0.49
1:B:1230:MET:HE1	1:B:1234:VAL:HG22	1.93	0.49
1:B:3531:ASP:O	1:B:3535:LEU:HG	2.12	0.49
1:B:4134:GLU:HB2	1:B:4135:PRO:HD3	1.94	0.49
1:B:4168:GLU:HA	1:B:4171:LEU:HD12	1.94	0.49
1:B:4750:ILE:HA	1:B:4753:HIS:CD2	2.47	0.49
1:B:4781:GLY:O	1:B:4785:THR:HG23	2.12	0.49
1:D:244:LEU:HD22	1:D:375:LYS:HE2	1.94	0.49
1:D:2034:PHE:O	1:D:2037:ASP:OD1	2.30	0.49
1:D:2384:ILE:HG22	1:D:2388:GLU:OE2	2.11	0.49
1:D:2495:VAL:HG22	1:D:2498:HIS:ND1	2.27	0.49
1:D:3531:ASP:O	1:D:3535:LEU:HG	2.12	0.49
1:D:3568:SER:C	1:D:3572:GLN:OE1	2.51	0.49
1:D:3696:ASP:OD2	1:D:3773:ARG:NH1	2.45	0.49
1:D:4984:ASN:OD1	1:D:4986:ALA:HB3	2.12	0.49
1:C:368:ARG:NH2	1:C:2308:GLN:HB2	2.27	0.49
1:C:638:ILE:HD13	1:C:702:TRP:O	2.11	0.49
1:C:3996:PHE:O	1:C:4000:MET:HG3	2.12	0.49
1:C:4781:GLY:O	1:C:4785:THR:HG23	2.12	0.49
1:A:2767:ALA:HA	1:A:2791:LEU:HD11	1.93	0.49
1:A:2801:ASP:HA	1:A:2804:ILE:HG12	1.94	0.49
1:A:2880:GLU:HA	1:A:2883:HIS:HE1	1.77	0.49
1:A:3226:GLU:O	1:A:3227:ARG:HG2	2.11	0.49
1:A:3607:GLU:N	1:A:3607:GLU:OE1	2.45	0.49
1:A:4157:ASP:N	1:A:4161:ARG:NH1	2.59	0.49
2:E:37:ASP:OD1	2:E:42:ARG:NH1	2.43	0.49
1:B:2215:LEU:HD23	1:B:2223:ILE:HD11	1.92	0.49
1:B:2929:PHE:O	1:B:2932:MET:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4632:LEU:HD12	1:B:4640:GLU:HG3	1.94	0.49
1:D:101:LEU:C	1:D:102:LEU:HD12	2.32	0.49
1:D:2684:ASP:O	1:D:2688:HIS:ND1	2.35	0.49
1:D:2977:LEU:HD22	1:D:3056:LEU:HD23	1.94	0.49
1:D:4781:GLY:O	1:D:4785:THR:HG23	2.12	0.49
1:C:2764:GLU:HB3	1:C:2857:PRO:HB3	1.94	0.49
1:C:3568:SER:C	1:C:3572:GLN:OE1	2.51	0.49
1:C:4003:LEU:HD23	1:C:4009:GLN:OE1	2.12	0.49
1:C:4168:GLU:HA	1:C:4171:LEU:HD12	1.94	0.49
1:C:4750:ILE:HA	1:C:4753:HIS:CD2	2.47	0.49
1:A:1573:MET:SD	1:A:1574:PRO:HD2	2.52	0.49
1:A:2751:LEU:O	1:A:2751:LEU:HD23	2.13	0.49
1:A:3039:ILE:HG12	1:A:3071:LEU:HD11	1.94	0.49
1:A:3326:ASN:O	1:A:3329:ILE:HG12	2.13	0.49
1:A:3696:ASP:OD2	1:A:3773:ARG:NH1	2.45	0.49
1:A:4985:LEU:HD12	1:A:4986:ALA:N	2.27	0.49
2:F:102:GLU:OE2	2:F:104:LEU:HG	2.12	0.49
1:B:2641:LEU:HD13	1:B:2698:MET:HG3	1.94	0.49
1:B:2779:GLU:O	1:B:2792:ARG:NH1	2.45	0.49
1:B:3100:SER:OG	1:B:3167:ARG:NH1	2.45	0.49
1:B:3568:SER:C	1:B:3572:GLN:OE1	2.51	0.49
1:D:504:ALA:HB2	1:D:512:ALA:CB	2.40	0.49
1:D:1453:VAL:HG12	1:D:1492:CYS:HB2	1.94	0.49
1:D:3106:MET:HE1	1:D:3128:ASN:ND2	2.28	0.49
1:C:101:LEU:C	1:C:102:LEU:HD12	2.32	0.49
1:C:3299:GLY:O	1:C:3300:ALA:HB2	2.11	0.49
1:C:4632:LEU:HD12	1:C:4640:GLU:HG3	1.94	0.49
1:A:2214:VAL:HB	1:A:2228:MET:HE1	1.94	0.49
1:A:2716:ASP:OD1	1:A:2717:ALA:N	2.45	0.49
1:A:2725:LYS:HD2	1:A:2736:ASP:OD1	2.11	0.49
1:A:2973:PHE:HA	1:A:2976:HIS:CD2	2.47	0.49
2:H:90:ILE:HG22	2:H:91:ILE:HG13	1.94	0.49
1:B:1126:GLY:O	1:B:1129:GLY:N	2.44	0.49
1:B:2758:PHE:CE2	1:B:2926:LEU:HD13	2.47	0.49
1:D:1141:ARG:HB2	1:C:3479:ALA:HB1	1.94	0.49
1:D:1463:ASN:O	1:D:1468:LYS:NZ	2.37	0.49
1:D:4157:ASP:OD2	1:D:4159:ARG:NH2	2.40	0.49
1:C:3274:LEU:HD22	1:C:3319:ILE:HD11	1.94	0.49
1:A:504:ALA:HB2	1:A:512:ALA:CB	2.41	0.49
1:A:701:GLY:N	1:A:1645:ASN:O	2.37	0.49
1:A:2977:LEU:HD22	1:A:3056:LEU:HD23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3409:TYR:OH	1:A:3441:ILE:HG21	2.13	0.49
1:A:3500:GLY:O	1:A:3504:SER:OG	2.25	0.49
1:A:3533:ILE:O	1:A:3537:LYS:HG2	2.13	0.49
1:A:3566:SER:OG	1:A:3568:SER:OG	1.98	0.49
1:A:4168:GLU:HA	1:A:4171:LEU:HD12	1.94	0.49
1:A:4984:ASN:OD1	1:A:4986:ALA:HB3	2.12	0.49
1:B:2463:LEU:O	1:B:2467:VAL:HG23	2.13	0.49
1:B:2575:ARG:CZ	1:B:2578:MET:HE1	2.43	0.49
1:B:3696:ASP:OD2	1:B:3773:ARG:CZ	2.61	0.49
1:D:553:ARG:NE	1:D:555:GLU:OE2	2.44	0.49
1:D:2475:GLN:OE1	1:D:2488:PRO:HG3	2.12	0.49
1:D:2822:THR:OG1	1:D:2938:THR:OG1	2.30	0.49
1:D:3039:ILE:HG12	1:D:3071:LEU:HD11	1.94	0.49
1:D:3326:ASN:O	1:D:3329:ILE:HG12	2.13	0.49
1:D:3607:GLU:N	1:D:3607:GLU:OE1	2.45	0.49
1:D:3696:ASP:OD2	1:D:3773:ARG:CZ	2.61	0.49
1:D:3957:VAL:O	1:D:3961:VAL:HG23	2.11	0.49
1:D:4003:LEU:HD23	1:D:4009:GLN:OE1	2.12	0.49
1:D:4168:GLU:HA	1:D:4171:LEU:HD12	1.94	0.49
1:D:4632:LEU:HD12	1:D:4640:GLU:HG3	1.94	0.49
1:C:206:CYS:HA	1:C:334:MET:HE3	1.95	0.49
1:C:1448:VAL:HB	1:C:1554:VAL:HG23	1.95	0.49
1:C:2523:ASP:OD1	1:C:2524:VAL:N	2.44	0.49
1:C:2929:PHE:O	1:C:2932:MET:HG2	2.13	0.49
1:C:3100:SER:O	1:C:3103:ILE:N	2.45	0.49
1:C:3696:ASP:OD2	1:C:3773:ARG:CZ	2.61	0.49
1:A:4781:GLY:O	1:A:4785:THR:HG23	2.12	0.49
1:A:4879:MET:HG2	1:D:4580:TYR:O	2.12	0.49
2:G:1:GLY:N	2:G:80:TYR:CD2	2.80	0.49
1:D:1448:VAL:HB	1:D:1554:VAL:HG23	1.95	0.49
1:D:2725:LYS:HD2	1:D:2736:ASP:OD1	2.12	0.49
1:D:2739:PRO:HG3	1:D:2885:THR:HA	1.94	0.49
1:D:2887:GLY:HA3	1:D:2905:LEU:HD22	1.94	0.49
1:C:2612[A]:ARG:HH11	1:C:2613:TYR:N	2.11	0.49
1:C:2742:THR:CG2	1:C:2814:LYS:HB3	2.41	0.49
1:C:2801:ASP:HA	1:C:2804:ILE:HG12	1.94	0.49
1:C:2887:GLY:HA3	1:C:2905:LEU:HD22	1.94	0.49
1:C:3158:LEU:HG	1:C:3159:ASP:N	2.28	0.49
1:C:4686:LEU:O	1:C:4691:GLN:N	2.33	0.49
1:A:722:TRP:CE2	1:A:727:ALA:HB2	2.48	0.49
1:A:2110:TYR:O	1:A:2112:GLN:NE2	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2476:ILE:HG23	1:A:2536:LEU:HD11	1.95	0.49
1:A:2894:LEU:O	1:A:2898:GLY:N	2.36	0.49
1:A:3100:SER:O	1:A:3103:ILE:N	2.45	0.49
2:H:1:GLY:N	2:H:80:TYR:CD2	2.80	0.49
1:B:1573:MET:SD	1:B:1574:PRO:HD2	2.52	0.49
1:B:2274:ASP:OD1	1:B:2274:ASP:C	2.49	0.49
1:B:2801:ASP:HA	1:B:2804:ILE:HG12	1.94	0.49
1:B:3533:ILE:O	1:B:3537:LYS:HG2	2.13	0.49
1:B:3696:ASP:OD2	1:B:3773:ARG:NH1	2.45	0.49
1:D:616:SER:O	1:D:620:LEU:HG	2.12	0.49
1:D:1573:MET:SD	1:D:1574:PRO:HD2	2.52	0.49
1:C:2265:LEU:HD12	1:C:2266:GLY:N	2.28	0.49
1:C:2641:LEU:HD13	1:C:2698:MET:HG3	1.94	0.49
1:C:3432:GLU:HB3	1:C:3524:MET:HE1	1.94	0.49
1:C:3533:ILE:O	1:C:3537:LYS:HG2	2.13	0.49
1:A:1105:ALA:O	1:A:1189:LEU:N	2.41	0.49
1:A:2165:LEU:CD1	1:A:2177:LEU:HD22	2.43	0.49
1:A:2463:LEU:O	1:A:2467:VAL:HG23	2.13	0.49
1:A:3106:MET:HE1	1:A:3128:ASN:ND2	2.28	0.49
1:A:3696:ASP:OD2	1:A:3773:ARG:CZ	2.61	0.49
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.13	0.49
2:F:1:GLY:N	2:F:80:TYR:CD2	2.80	0.49
1:B:880:GLU:O	1:B:884:LEU:HG	2.13	0.49
1:D:1506:GLN:O	1:C:2774:ASN:ND2	2.42	0.49
1:D:2340:PHE:HB2	1:D:2435:ARG:HB3	1.95	0.49
1:D:3107:VAL:O	1:D:3111:ARG:HG2	2.13	0.49
1:D:3499:ARG:HH12	1:D:3503:TYR:HB3	1.78	0.49
1:D:4134:GLU:HB2	1:D:4135:PRO:HD3	1.94	0.49
1:C:1995:THR:O	1:C:1999:ARG:HG2	2.13	0.49
1:C:2670:GLU:OE1	1:C:2670:GLU:N	2.42	0.49
1:C:3137:LEU:HB3	1:C:3138:PRO:HD3	1.93	0.49
1:C:3607:GLU:OE1	1:C:3607:GLU:N	2.45	0.49
1:A:2779:GLU:O	1:A:2792:ARG:NH1	2.45	0.49
1:A:2929:PHE:O	1:A:2932:MET:HG2	2.13	0.49
1:A:3499:ARG:HH12	1:A:3503:TYR:HB3	1.78	0.49
1:A:4134:GLU:HB2	1:A:4135:PRO:HD3	1.94	0.49
2:G:102:GLU:OE2	2:G:104:LEU:HG	2.12	0.49
1:B:2012:PHE:HZ	1:B:2031:LEU:HD23	1.75	0.49
1:B:2742:THR:CG2	1:B:2814:LYS:HB3	2.41	0.49
1:B:2751:LEU:HD23	1:B:2751:LEU:O	2.13	0.49
1:B:2764:GLU:HB3	1:B:2857:PRO:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3024:VAL:HG23	1:B:3024:VAL:O	2.13	0.49
1:B:3104:GLU:HA	1:B:3107:VAL:HG22	1.94	0.49
1:B:3604:TYR:O	1:B:3608:GLN:HG2	2.13	0.49
1:B:3996:PHE:O	1:B:4000:MET:HG3	2.13	0.49
1:B:4060:LYS:O	1:B:4064:MET:HG3	2.13	0.49
1:B:4984:ASN:OD1	1:B:4986:ALA:HB3	2.12	0.49
1:D:368:ARG:NH2	1:D:2308:GLN:HB2	2.27	0.49
1:D:2538:THR:O	1:D:2542:SER:OG	2.31	0.49
1:D:3100:SER:OG	1:D:3167:ARG:NH1	2.46	0.49
1:D:3164:SER:O	1:D:3168:THR:HG23	2.13	0.49
1:D:3409:TYR:OH	1:D:3441:ILE:HG21	2.13	0.49
1:C:616:SER:O	1:C:620:LEU:HG	2.12	0.49
1:C:1771:LEU:HB3	1:C:2153:MET:HE2	1.95	0.49
1:C:2806:ARG:O	1:C:2810:LYS:N	2.32	0.49
1:C:2977:LEU:HD22	1:C:3056:LEU:HD23	1.94	0.49
1:A:244:LEU:HD22	1:A:375:LYS:HE2	1.93	0.49
1:A:920:TYR:HA	1:A:923:GLN:OE1	2.13	0.49
1:A:2806:ARG:O	1:A:2810:LYS:N	2.32	0.49
2:E:1:GLY:N	2:E:80:TYR:CD2	2.81	0.49
1:B:371:VAL:HG12	1:B:373:LYS:H	1.78	0.49
1:B:883:ALA:HB1	1:B:907:LEU:HD13	1.95	0.49
1:B:2165:LEU:CD1	1:B:2177:LEU:HD22	2.43	0.49
1:B:2880:GLU:HA	1:B:2883:HIS:HE1	1.77	0.49
1:B:3775:ALA:O	1:B:3779:VAL:HG23	2.13	0.49
1:D:2641:LEU:HD13	1:D:2698:MET:HG3	1.94	0.49
1:D:2751:LEU:HD23	1:D:2751:LEU:O	2.13	0.49
1:D:2889:LYS:HE3	1:D:2890:LYS:HZ2	1.78	0.49
1:D:2973:PHE:HA	1:D:2976:HIS:CD2	2.47	0.49
1:D:3510:ILE:HG23	1:D:3511:VAL:N	2.28	0.49
1:D:4056:GLU:HG3	1:D:4166:LEU:HD13	1.95	0.49
1:D:4157:ASP:H	1:D:4161:ARG:NH1	2.09	0.49
1:C:244:LEU:HD22	1:C:375:LYS:HE2	1.94	0.49
1:C:2290:LEU:HD23	1:C:2291:GLN:N	2.28	0.49
1:C:2520:HIS:O	1:C:2523:ASP:OD1	2.31	0.49
1:C:2776:SER:O	1:C:2787:THR:HG21	2.13	0.49
1:C:3107:VAL:O	1:C:3111:ARG:HG2	2.13	0.49
1:C:3531:ASP:O	1:C:3535:LEU:HG	2.12	0.49
1:A:2340:PHE:HB2	1:A:2435:ARG:HB3	1.95	0.48
1:A:2530:MET:SD	1:A:2554:LEU:CD2	3.00	0.48
1:A:3158:LEU:HG	1:A:3159:ASP:N	2.28	0.48
1:A:3510:ILE:HG23	1:A:3511:VAL:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1448:VAL:HB	1:B:1554:VAL:HG23	1.95	0.48
1:B:2121:PHE:O	1:B:3725:TYR:OH	2.27	0.48
1:B:2238:TYR:O	1:B:2241:ARG:N	2.46	0.48
1:B:3201:MET:HE3	1:B:3203:VAL:HG22	1.95	0.48
1:D:722:TRP:CE2	1:D:727:ALA:HB2	2.48	0.48
1:D:1230:MET:HE1	1:D:1234:VAL:HG22	1.95	0.48
1:D:2369[A]:ARG:NH2	1:D:2372:GLY:O	2.45	0.48
1:D:2520:HIS:O	1:D:2523:ASP:OD1	2.31	0.48
1:D:2530:MET:SD	1:D:2554:LEU:CD2	3.00	0.48
1:D:3104:GLU:HA	1:D:3107:VAL:HG22	1.94	0.48
1:D:3158:LEU:HG	1:D:3159:ASP:N	2.28	0.48
1:D:3996:PHE:O	1:D:4000:MET:HG3	2.13	0.48
1:C:2437:ALA:HB3	1:C:2508:ARG:HE	1.78	0.48
1:C:3504:SER:O	1:C:3507:THR:OG1	2.26	0.48
1:C:3775:ALA:O	1:C:3779:VAL:HG23	2.13	0.48
1:A:1448:VAL:HB	1:A:1554:VAL:HG23	1.95	0.48
1:A:2034:PHE:O	1:A:2037:ASP:OD1	2.30	0.48
1:A:3100:SER:OG	1:A:3167:ARG:NH1	2.46	0.48
1:A:4820:VAL:HG11	1:B:4839:MET:HE1	1.95	0.48
1:A:4821:LYS:O	1:A:4825:THR:HG23	2.13	0.48
2:F:90:ILE:HG22	2:F:91:ILE:HG13	1.94	0.48
1:B:1995:THR:O	1:B:1999:ARG:HG2	2.13	0.48
1:B:2195:PRO:HA	1:B:2198:MET:HE2	1.95	0.48
1:B:2265:LEU:HD12	1:B:2266:GLY:N	2.28	0.48
1:B:2290:LEU:HD23	1:B:2291:GLN:N	2.28	0.48
1:B:3409:TYR:OH	1:B:3441:ILE:HG21	2.13	0.48
1:B:4157:ASP:N	1:B:4161:ARG:NH1	2.59	0.48
1:B:4821:LYS:O	1:B:4825:THR:HG23	2.13	0.48
1:D:2463:LEU:O	1:D:2467:VAL:HG23	2.13	0.48
1:D:3432:GLU:HB3	1:D:3524:MET:HE1	1.94	0.48
1:D:4821:LYS:O	1:D:4825:THR:HG23	2.13	0.48
1:C:210:GLU:OE1	1:C:273:HIS:NE2	2.46	0.48
1:C:978:THR:HG23	1:C:981:GLN:OE1	2.14	0.48
1:C:2340:PHE:HB2	1:C:2435:ARG:HB3	1.94	0.48
1:C:2463:LEU:O	1:C:2467:VAL:HG23	2.13	0.48
1:C:3720:TYR:HA	1:C:3723:MET:HE3	1.95	0.48
1:C:4821:LYS:O	1:C:4825:THR:HG23	2.13	0.48
1:A:210:GLU:OE1	1:A:273:HIS:NE2	2.46	0.48
1:A:273:HIS:CE1	1:A:334:MET:HB3	2.49	0.48
1:A:462:GLU:HG2	1:A:463:GLU:N	2.28	0.48
1:A:880:GLU:O	1:A:884:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1109:LEU:HA	1:A:1120:LEU:HD13	1.95	0.48
1:A:2212:VAL:HG11	1:A:2256:TYR:HE2	1.79	0.48
1:A:2265:LEU:HD12	1:A:2266:GLY:N	2.28	0.48
1:A:2675:THR:CG2	1:A:2706:ILE:HG23	2.44	0.48
1:A:3640:PRO:O	1:A:3643:ASN:N	2.41	0.48
1:B:616:SER:O	1:B:620:LEU:HG	2.12	0.48
1:B:787:VAL:HG22	1:B:789:VAL:HG23	1.96	0.48
1:B:2212:VAL:HG11	1:B:2256:TYR:HE2	1.79	0.48
1:B:2612[A]:ARG:HB3	1:B:2612[A]:ARG:CZ	2.43	0.48
1:B:3107:VAL:O	1:B:3111:ARG:HG2	2.13	0.48
1:B:3326:ASN:O	1:B:3329:ILE:HG12	2.13	0.48
1:B:4003:LEU:HD23	1:B:4009:GLN:OE1	2.12	0.48
1:D:273:HIS:CE1	1:D:334:MET:HB3	2.49	0.48
1:D:790:ARG:HG3	1:D:1626:TRP:O	2.14	0.48
1:D:1109:LEU:HA	1:D:1120:LEU:HD13	1.95	0.48
1:D:1995:THR:O	1:D:1999:ARG:HG2	2.13	0.48
1:D:2675:THR:CG2	1:D:2706:ILE:HG23	2.44	0.48
1:D:4849:TYR:O	1:D:4853:VAL:HG23	2.13	0.48
1:C:371:VAL:HG12	1:C:373:LYS:H	1.78	0.48
1:C:722:TRP:CE2	1:C:727:ALA:HB2	2.48	0.48
1:C:920:TYR:HA	1:C:923:GLN:OE1	2.13	0.48
1:C:2751:LEU:O	1:C:2751:LEU:HD23	2.13	0.48
1:C:4984:ASN:OD1	1:C:4986:ALA:HB3	2.12	0.48
1:A:2612[A]:ARG:HH11	1:A:2613:TYR:N	2.11	0.48
1:A:3996:PHE:O	1:A:4000:MET:HG3	2.13	0.48
1:B:2476:ILE:HG23	1:B:2536:LEU:HD11	1.95	0.48
1:B:2684:ASP:O	1:B:2688:HIS:ND1	2.35	0.48
1:D:462:GLU:HG2	1:D:463:GLU:N	2.28	0.48
1:D:1929:MET:O	1:D:1930:LYS:HB3	2.13	0.48
1:D:2165:LEU:CD1	1:D:2177:LEU:HD22	2.43	0.48
1:D:2290:LEU:HD23	1:D:2291:GLN:N	2.28	0.48
1:D:2437:ALA:HB3	1:D:2508:ARG:HE	1.78	0.48
1:D:3024:VAL:O	1:D:3024:VAL:HG23	2.13	0.48
1:C:614:VAL:HG22	1:C:2169:GLN:NE2	2.29	0.48
1:C:790:ARG:HG3	1:C:1626:TRP:O	2.14	0.48
1:C:1109:LEU:HA	1:C:1120:LEU:HD13	1.95	0.48
1:C:2530:MET:SD	1:C:2554:LEU:CD2	3.00	0.48
1:C:3104:GLU:HA	1:C:3107:VAL:HG22	1.94	0.48
1:C:3326:ASN:O	1:C:3329:ILE:HG12	2.13	0.48
1:C:4027:LEU:HD22	1:C:4044:MET:HE2	1.94	0.48
1:A:2290:LEU:HD23	1:A:2291:GLN:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2437:ALA:HB3	1:A:2508:ARG:HE	1.78	0.48
1:A:2440:MET:SD	1:A:2440:MET:C	2.92	0.48
1:A:3906:GLN:H	1:A:3912:THR:HG23	1.79	0.48
1:A:4552:LEU:HD12	1:A:4663:CYS:SG	2.53	0.48
1:A:4848:VAL:HG11	1:A:4887:MET:HG2	1.96	0.48
1:A:4902:GLU:O	1:A:4913:ARG:CZ	2.62	0.48
2:G:90:ILE:HG22	2:G:91:ILE:HG13	1.94	0.48
1:B:462:GLU:HG2	1:B:463:GLU:N	2.28	0.48
1:B:722:TRP:CE2	1:B:727:ALA:HB2	2.48	0.48
1:B:2034:PHE:O	1:B:2037:ASP:OD1	2.30	0.48
1:B:2381:GLU:CB	1:B:2385:ARG:HH12	2.27	0.48
1:B:2440:MET:SD	1:B:2440:MET:C	2.92	0.48
1:B:2776:SER:O	1:B:2787:THR:HG21	2.13	0.48
1:B:4848:VAL:HG11	1:B:4887:MET:HG2	1.96	0.48
1:B:4911:LEU:O	1:B:4914:VAL:HG22	2.13	0.48
1:D:880:GLU:O	1:D:884:LEU:HG	2.13	0.48
1:D:1286:MET:HG3	1:D:1461:ASP:O	2.13	0.48
1:D:2238:TYR:O	1:D:2241:ARG:N	2.46	0.48
1:D:2575:ARG:CZ	1:D:2578:MET:HE1	2.43	0.48
1:D:2880:GLU:HA	1:D:2883:HIS:HE1	1.77	0.48
1:D:2916:LYS:HG3	1:D:2920:ARG:HB2	1.96	0.48
1:C:1573:MET:SD	1:C:1574:PRO:HD2	2.52	0.48
1:C:1929:MET:O	1:C:1930:LYS:HB3	2.13	0.48
1:C:3024:VAL:HG23	1:C:3024:VAL:O	2.13	0.48
1:C:3164:SER:O	1:C:3168:THR:HG23	2.13	0.48
1:C:3729:MET:HE2	1:C:3770:LEU:CD2	2.43	0.48
1:C:4848:VAL:HG11	1:C:4887:MET:HG2	1.96	0.48
1:A:110:ARG:HD3	1:A:115:ARG:HE	1.79	0.48
1:A:1126:GLY:O	1:A:1129:GLY:N	2.44	0.48
1:A:1286:MET:HG3	1:A:1461:ASP:O	2.13	0.48
1:A:2195:PRO:HA	1:A:2198:MET:HE2	1.96	0.48
1:A:2776:SER:O	1:A:2787:THR:HG21	2.13	0.48
1:A:2929:PHE:CD1	1:A:2932:MET:SD	3.07	0.48
1:A:3024:VAL:HG23	1:A:3024:VAL:O	2.13	0.48
1:A:3107:VAL:O	1:A:3111:ARG:HG2	2.13	0.48
1:A:3604:TYR:O	1:A:3608:GLN:HG2	2.13	0.48
1:A:4157:ASP:H	1:A:4161:ARG:NH1	2.09	0.48
1:A:4686:LEU:O	1:A:4691:GLN:N	2.33	0.48
1:A:4876:CYS:HA	1:A:4882:CYS:HB2	1.96	0.48
2:F:37:ASP:OD1	2:F:42:ARG:NH1	2.43	0.48
1:B:273:HIS:CE1	1:B:334:MET:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:790:ARG:HG3	1:B:1626:TRP:O	2.14	0.48
1:B:920:TYR:HA	1:B:923:GLN:OE1	2.13	0.48
1:B:2612[A]:ARG:HH11	1:B:2613:TYR:N	2.11	0.48
1:B:3274:LEU:HD22	1:B:3319:ILE:HD11	1.94	0.48
1:D:978:THR:HG23	1:D:981:GLN:OE1	2.14	0.48
1:D:1006:SER:C	1:D:1021:LEU:HD23	2.34	0.48
1:D:2381:GLU:CB	1:D:2385:ARG:HH12	2.27	0.48
1:D:2476:ILE:HG23	1:D:2536:LEU:HD11	1.95	0.48
1:D:2929:PHE:CD1	1:D:2932:MET:SD	3.07	0.48
1:D:3270:ILE:H	1:D:3270:ILE:HD12	1.79	0.48
1:C:2238:TYR:O	1:C:2241:ARG:N	2.46	0.48
1:C:4911:LEU:O	1:C:4914:VAL:HG22	2.13	0.48
1:A:371:VAL:HG12	1:A:373:LYS:H	1.78	0.48
1:A:1995:THR:O	1:A:1999:ARG:HG2	2.13	0.48
1:A:2612[A]:ARG:HB3	1:A:2612[A]:ARG:CZ	2.43	0.48
1:A:3164:SER:O	1:A:3168:THR:HG23	2.13	0.48
1:B:1929:MET:O	1:B:1930:LYS:HB3	2.13	0.48
1:B:2255:SER:O	1:B:2258:LEU:HB2	2.14	0.48
1:B:2340:PHE:HB2	1:B:2435:ARG:HB3	1.95	0.48
1:B:2520:HIS:O	1:B:2523:ASP:OD1	2.31	0.48
1:B:2977:LEU:HD22	1:B:3056:LEU:HD23	1.95	0.48
1:B:3607:GLU:OE1	1:B:3607:GLU:N	2.45	0.48
1:B:3720:TYR:HA	1:B:3723:MET:HE3	1.95	0.48
1:D:1699:GLU:OE2	1:D:1813:ARG:NH2	2.47	0.48
1:D:2265:LEU:HD12	1:D:2266:GLY:N	2.28	0.48
1:D:2612[A]:ARG:HB3	1:D:2612[A]:ARG:CZ	2.43	0.48
1:D:2668:SER:O	1:D:2669:GLU:CG	2.60	0.48
1:D:3106:MET:HE1	1:D:3128:ASN:HD22	1.78	0.48
1:D:3111:ARG:NH2	1:D:3178:THR:HG21	2.29	0.48
1:D:3604:TYR:O	1:D:3608:GLN:HG2	2.13	0.48
1:C:368:ARG:HH22	1:C:2308:GLN:HB2	1.79	0.48
1:C:883:ALA:HB1	1:C:907:LEU:HD13	1.95	0.48
1:C:2929:PHE:CD1	1:C:2932:MET:SD	3.07	0.48
1:C:3924:LEU:O	1:C:3927:GLN:HG3	2.13	0.48
1:C:4552:LEU:HD12	1:C:4663:CYS:SG	2.53	0.48
1:C:4581:LYS:HZ3	1:C:4583:SER:HB2	1.79	0.48
1:A:790:ARG:HG3	1:A:1626:TRP:O	2.14	0.48
1:A:2801:ASP:O	1:A:2804:ILE:HG12	2.14	0.48
1:A:3270:ILE:H	1:A:3270:ILE:HD12	1.79	0.48
1:A:4003:LEU:HD23	1:A:4009:GLN:OE1	2.12	0.48
1:B:210:GLU:OE1	1:B:273:HIS:NE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:368:ARG:HH22	1:B:2308:GLN:HB2	1.79	0.48
1:B:1109:LEU:HA	1:B:1120:LEU:HD13	1.95	0.48
1:B:2541:PHE:HA	1:B:2544:THR:HG23	1.95	0.48
1:B:2916:LYS:HG3	1:B:2920:ARG:HB2	1.96	0.48
1:B:3479:ALA:HB1	1:C:1141:ARG:HB2	1.96	0.48
1:B:4149:ASN:OD1	1:B:4153:HIS:ND1	2.47	0.48
1:B:4849:TYR:O	1:B:4853:VAL:HG23	2.13	0.48
1:B:4902:GLU:O	1:B:4913:ARG:CZ	2.62	0.48
1:D:210:GLU:OE1	1:D:273:HIS:NE2	2.46	0.48
1:D:371:VAL:HG12	1:D:373:LYS:H	1.78	0.48
1:D:614:VAL:HG22	1:D:2169:GLN:NE2	2.29	0.48
1:D:920:TYR:HA	1:D:923:GLN:OE1	2.13	0.48
1:D:2776:SER:O	1:D:2787:THR:HG21	2.13	0.48
1:D:2801:ASP:HA	1:D:2804:ILE:HG12	1.94	0.48
1:D:3105:LYS:CE	1:D:3128:ASN:HD22	2.27	0.48
1:D:3427:PRO:CD	1:D:3579:LEU:HD21	2.41	0.48
1:D:3533:ILE:O	1:D:3537:LYS:HG2	2.13	0.48
1:D:3906:GLN:H	1:D:3912:THR:HG23	1.79	0.48
1:D:4848:VAL:HG11	1:D:4887:MET:HG2	1.96	0.48
1:D:4911:LEU:O	1:D:4914:VAL:HG22	2.13	0.48
1:C:2165:LEU:CD1	1:C:2177:LEU:HD22	2.43	0.48
1:C:2684:ASP:O	1:C:2688:HIS:ND1	2.35	0.48
1:C:2700:MET:O	1:C:2704:CYS:SG	2.72	0.48
1:C:4056:GLU:HG3	1:C:4166:LEU:HD13	1.95	0.48
1:C:4060:LYS:O	1:C:4064:MET:HG3	2.13	0.48
1:C:4157:ASP:N	1:C:4161:ARG:NH1	2.59	0.48
1:A:2381:GLU:CB	1:A:2385:ARG:HH12	2.27	0.48
1:A:3106:MET:HE1	1:A:3128:ASN:HD22	1.78	0.48
1:A:3274:LEU:HD22	1:A:3319:ILE:HD11	1.94	0.48
1:A:3924:LEU:O	1:A:3927:GLN:HG3	2.13	0.48
1:B:1006:SER:C	1:B:1021:LEU:HD23	2.34	0.48
1:B:1286:MET:HG3	1:B:1461:ASP:O	2.13	0.48
1:B:1699:GLU:OE2	1:B:1813:ARG:NH2	2.47	0.48
1:B:3158:LEU:HG	1:B:3159:ASP:N	2.28	0.48
1:B:3164:SER:O	1:B:3168:THR:HG23	2.13	0.48
1:B:3209:GLN:HG2	1:B:3210:LEU:HG	1.96	0.48
1:B:4552:LEU:HD12	1:B:4663:CYS:SG	2.53	0.48
1:B:4581:LYS:HZ3	1:B:4583:SER:HB2	1.79	0.48
1:B:4686:LEU:O	1:B:4691:GLN:N	2.33	0.48
1:D:2166:LEU:CD1	1:D:2206:THR:HG23	2.44	0.48
1:D:3640:PRO:O	1:D:3643:ASN:N	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3924:LEU:O	1:D:3927:GLN:HG3	2.13	0.48
1:D:4581:LYS:HZ3	1:D:4583:SER:HB2	1.78	0.48
1:C:787:VAL:HG22	1:C:789:VAL:HG23	1.96	0.48
1:C:880:GLU:O	1:C:884:LEU:HG	2.13	0.48
1:C:2255:SER:O	1:C:2258:LEU:HB2	2.14	0.48
1:C:2538:THR:O	1:C:2542:SER:OG	2.31	0.48
1:C:2541:PHE:HA	1:C:2544:THR:HG23	1.95	0.48
1:C:3105:LYS:CE	1:C:3128:ASN:HD22	2.27	0.48
1:C:3388:GLU:OE1	1:C:3388:GLU:N	2.47	0.48
1:C:3604:TYR:O	1:C:3608:GLN:HG2	2.13	0.48
1:A:2238:TYR:O	1:A:2241:ARG:N	2.46	0.48
1:A:3201:MET:HE3	1:A:3203:VAL:HG22	1.96	0.48
1:A:3209:GLN:HG2	1:A:3210:LEU:HG	1.96	0.48
1:B:614:VAL:HG22	1:B:2169:GLN:NE2	2.29	0.48
1:B:2929:PHE:CD1	1:B:2932:MET:SD	3.07	0.48
1:B:3510:ILE:HG23	1:B:3511:VAL:N	2.28	0.48
1:B:3906:GLN:H	1:B:3912:THR:HG23	1.79	0.48
1:D:632:LEU:O	1:D:634:GLN:NE2	2.45	0.48
1:D:3201:MET:HE3	1:D:3203:VAL:HG22	1.96	0.48
1:D:4149:ASN:OD1	1:D:4153:HIS:ND1	2.47	0.48
1:D:4902:GLU:O	1:D:4913:ARG:CZ	2.62	0.48
1:C:1699:GLU:OE2	1:C:1813:ARG:NH2	2.47	0.48
1:C:2034:PHE:O	1:C:2037:ASP:OD1	2.30	0.48
1:C:2195:PRO:HA	1:C:2198:MET:HE2	1.96	0.48
1:C:2381:GLU:CB	1:C:2385:ARG:HH12	2.27	0.48
1:C:2675:THR:CG2	1:C:2706:ILE:HG23	2.44	0.48
1:C:3499:ARG:HH12	1:C:3503:TYR:HB3	1.78	0.48
1:C:4149:ASN:OD1	1:C:4153:HIS:ND1	2.47	0.48
1:A:206:CYS:HA	1:A:334:MET:CE	2.45	0.47
1:A:1698:LEU:C	1:A:1814:MET:HE1	2.33	0.47
1:A:2255:SER:O	1:A:2258:LEU:HB2	2.14	0.47
1:A:4056:GLU:HG3	1:A:4166:LEU:HD13	1.95	0.47
1:A:4149:ASN:OD1	1:A:4153:HIS:ND1	2.47	0.47
1:A:4911:LEU:O	1:A:4914:VAL:HG22	2.13	0.47
1:B:978:THR:HG23	1:B:981:GLN:OE1	2.14	0.47
1:B:2437:ALA:HB3	1:B:2508:ARG:HE	1.78	0.47
1:B:2685:SER:O	1:B:2689:LYS:HG2	2.14	0.47
1:B:2816:MET:HG2	1:B:2878:LEU:CD1	2.44	0.47
1:B:3546:ASP:O	1:B:3549:VAL:HG22	2.14	0.47
1:B:4835:LYS:O	1:B:4839:MET:HG2	2.14	0.47
1:D:110:ARG:HD3	1:D:115:ARG:HE	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2212:VAL:HG11	1:D:2256:TYR:HE2	1.79	0.47
1:D:3729:MET:HE2	1:D:3770:LEU:CD2	2.43	0.47
1:C:899:ASP:O	1:C:902:ARG:NH2	2.44	0.47
1:C:1006:SER:C	1:C:1021:LEU:HD23	2.34	0.47
1:C:1286:MET:HG3	1:C:1461:ASP:O	2.13	0.47
1:C:2476:ILE:HG23	1:C:2536:LEU:HD11	1.95	0.47
1:C:2575:ARG:CZ	1:C:2578:MET:HE1	2.44	0.47
1:C:2612[A]:ARG:HB3	1:C:2612[A]:ARG:CZ	2.43	0.47
1:C:2685:SER:O	1:C:2689:LYS:HG2	2.14	0.47
1:C:2888:ARG:NH2	1:C:2892:GLN:OE1	2.43	0.47
1:C:3100:SER:OG	1:C:3167:ARG:NH1	2.45	0.47
1:C:4876:CYS:HA	1:C:4882:CYS:HB2	1.96	0.47
1:A:1784:ALA:O	2:E:82:TYR:OH	2.13	0.47
1:A:1857:GLU:O	1:A:1861:GLN:OE1	2.32	0.47
1:A:1962:ALA:O	1:A:1966:VAL:HG13	2.14	0.47
1:A:2520:HIS:O	1:A:2523:ASP:OD1	2.31	0.47
1:A:2700:MET:O	1:A:2704:CYS:SG	2.72	0.47
1:A:3162:GLN:O	1:A:3166:TYR:CD2	2.67	0.47
1:A:4060:LYS:O	1:A:4064:MET:HG3	2.13	0.47
1:A:4680:LYS:O	1:A:4685:GLY:N	2.47	0.47
1:B:206:CYS:HA	1:B:334:MET:CE	2.44	0.47
1:B:206:CYS:HA	1:B:334:MET:HE3	1.96	0.47
1:B:3039:ILE:CG1	1:B:3071:LEU:HD11	2.45	0.47
1:D:206:CYS:HA	1:D:334:MET:CE	2.44	0.47
1:D:1857:GLU:O	1:D:1861:GLN:OE1	2.32	0.47
1:D:1962:ALA:O	1:D:1966:VAL:HG13	2.14	0.47
1:D:2036:GLN:O	1:D:2045:GLN:OE1	2.32	0.47
1:D:2292:GLU:HA	1:D:2295:LEU:HD12	1.96	0.47
1:D:2801:ASP:O	1:D:2804:ILE:HG12	2.14	0.47
1:D:2806:ARG:O	1:D:2810:LYS:N	2.32	0.47
1:D:4686:LEU:HG	1:D:4687:TYR:N	2.29	0.47
1:D:4835:LYS:O	1:D:4839:MET:HG2	2.14	0.47
1:C:462:GLU:HG2	1:C:463:GLU:N	2.28	0.47
1:C:2668:SER:O	1:C:2669:GLU:CG	2.59	0.47
1:C:3162:GLN:O	1:C:3166:TYR:CD2	2.67	0.47
1:C:3315:LEU:O	1:C:3319:ILE:HG12	2.14	0.47
1:C:3510:ILE:HG23	1:C:3511:VAL:N	2.28	0.47
1:C:3906:GLN:H	1:C:3912:THR:HG23	1.79	0.47
1:C:5032:TYR:O	1:C:5036:LEU:N	2.37	0.47
1:A:368:ARG:HH22	1:A:2308:GLN:HB2	1.79	0.47
1:A:614:VAL:HG22	1:A:2169:GLN:NE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:787:VAL:HG22	1:A:789:VAL:HG23	1.96	0.47
1:A:883:ALA:HB1	1:A:907:LEU:HD13	1.95	0.47
1:A:1006:SER:C	1:A:1021:LEU:HD23	2.34	0.47
1:A:1699:GLU:OE2	1:A:1813:ARG:NH2	2.47	0.47
1:A:2952:GLU:HA	1:A:2957:PHE:CD2	2.50	0.47
1:A:2962:GLN:O	1:A:2966:TRP:HD1	1.98	0.47
1:A:3283:ARG:HG2	1:A:3287:ARG:NH2	2.28	0.47
1:A:3384:LYS:H	1:A:3387:ALA:HB3	1.78	0.47
1:A:4718:LYS:O	1:A:4722:ARG:NH2	2.48	0.47
2:F:84:ALA:CB	2:F:94:HIS:CE1	2.97	0.47
1:B:632:LEU:O	1:B:634:GLN:NE2	2.45	0.47
1:B:2204:HIS:NE2	1:B:2205:GLU:OE2	2.47	0.47
1:B:2377:LEU:HD13	1:B:2469:ILE:HG13	1.96	0.47
1:B:3315:LEU:O	1:B:3319:ILE:HG12	2.15	0.47
1:B:4001:MET:HG3	1:B:4057:MET:SD	2.55	0.47
1:D:1207:ASP:O	1:D:1210:SER:OG	2.24	0.47
1:D:2195:PRO:HA	1:D:2198:MET:HE2	1.96	0.47
1:D:2962:GLN:O	1:D:2966:TRP:HD1	1.97	0.47
1:D:3052:HIS:NE2	1:D:3128:ASN:CG	2.65	0.47
1:D:3162:GLN:O	1:D:3166:TYR:CD2	2.67	0.47
1:C:2036:GLN:O	1:C:2045:GLN:OE1	2.32	0.47
1:C:3111:ARG:NH2	1:C:3178:THR:HG21	2.29	0.47
1:C:3384:LYS:H	1:C:3387:ALA:HB3	1.78	0.47
1:C:3409:TYR:OH	1:C:3441:ILE:HG21	2.13	0.47
1:C:4718:LYS:O	1:C:4722:ARG:NH2	2.48	0.47
1:C:4835:LYS:O	1:C:4839:MET:HG2	2.14	0.47
1:A:978:THR:HG23	1:A:981:GLN:OE1	2.14	0.47
1:A:1658:ASP:N	1:A:1658:ASP:OD1	2.48	0.47
1:A:1929:MET:O	1:A:1930:LYS:HB3	2.13	0.47
1:A:2204:HIS:NE2	1:A:2205:GLU:OE2	2.47	0.47
1:A:3479:ALA:HB1	1:B:1141:ARG:HB2	1.96	0.47
1:A:4001:MET:HG3	1:A:4057:MET:SD	2.55	0.47
1:A:4702:ASP:O	1:A:4705:VAL:HG12	2.14	0.47
2:E:84:ALA:CB	2:E:94:HIS:CE1	2.97	0.47
2:H:84:ALA:CB	2:H:94:HIS:CE1	2.97	0.47
1:B:1819:VAL:HG22	1:B:1926:LEU:HD21	1.96	0.47
1:B:2687:ALA:HB1	1:B:2966:TRP:HH2	1.76	0.47
1:B:3388:GLU:OE1	1:B:3388:GLU:N	2.46	0.47
1:B:3499:ARG:HH12	1:B:3503:TYR:HB3	1.78	0.47
1:B:4702:ASP:O	1:B:4705:VAL:HG12	2.14	0.47
1:D:955:LEU:HD23	1:D:969:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1575:LEU:CD2	1:D:1579:MET:SD	3.02	0.47
1:D:1819:VAL:HG22	1:D:1926:LEU:HD21	1.96	0.47
1:D:2255:SER:O	1:D:2258:LEU:HB2	2.14	0.47
1:D:2612[A]:ARG:HH11	1:D:2613:TYR:N	2.11	0.47
1:D:2929:PHE:O	1:D:2932:MET:HG2	2.13	0.47
1:D:3277:LEU:CD2	1:D:3315:LEU:HD22	2.44	0.47
1:D:4702:ASP:O	1:D:4705:VAL:HG12	2.14	0.47
1:C:919:ASN:O	1:C:923:GLN:OE1	2.33	0.47
1:C:2292:GLU:HA	1:C:2295:LEU:HD12	1.96	0.47
1:C:2440:MET:SD	1:C:2440:MET:C	2.92	0.47
1:C:2801:ASP:O	1:C:2804:ILE:HG12	2.14	0.47
1:C:3040:THR:HG21	1:C:3080:VAL:HG21	1.96	0.47
1:C:3702:VAL:HG11	1:C:3773:ARG:O	2.15	0.47
1:C:4157:ASP:H	1:C:4161:ARG:NH1	2.09	0.47
1:C:4231:MET:HE2	1:C:5022:PHE:CG	2.49	0.47
1:C:4705:VAL:HG22	1:C:4711:PHE:CD1	2.49	0.47
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.13	0.47
1:A:231:LEU:HD11	1:A:245:VAL:CG1	2.44	0.47
1:A:2155:LEU:CD1	1:A:2185:ILE:HG23	2.44	0.47
1:A:3111:ARG:NH2	1:A:3178:THR:HG21	2.29	0.47
1:A:3320:LEU:HD12	1:A:3353:LEU:HD21	1.97	0.47
1:A:3571:TRP:CE2	1:B:1228:ILE:HD11	2.49	0.47
1:A:3955:MET:HE2	1:A:4015:GLU:HG2	1.95	0.47
1:A:4644:TRP:O	1:A:4648:LEU:HD13	2.15	0.47
1:B:1024:TYR:O	1:B:1027:LEU:N	2.48	0.47
1:B:2911:LEU:HD12	1:B:2912:THR:O	2.15	0.47
1:B:3105:LYS:CE	1:B:3128:ASN:HD22	2.27	0.47
1:B:3924:LEU:O	1:B:3927:GLN:HG3	2.13	0.47
1:D:1024:TYR:O	1:D:1027:LEU:N	2.48	0.47
1:D:2285:GLU:H	1:D:3858:MET:HE1	1.78	0.47
1:D:2674:LEU:HA	1:D:2677:LYS:CE	2.41	0.47
1:D:2700:MET:O	1:D:2704:CYS:SG	2.72	0.47
1:D:2742:THR:CG2	1:D:2814:LYS:HB3	2.41	0.47
1:D:2952:GLU:HA	1:D:2957:PHE:CD2	2.50	0.47
1:D:2979:ALA:O	1:D:2982:SER:OG	2.22	0.47
1:D:4879:MET:HG2	1:C:4580:TYR:O	2.14	0.47
1:C:206:CYS:HA	1:C:334:MET:CE	2.45	0.47
1:C:1435:TYR:HH	1:C:1564:PHE:HD2	1.62	0.47
1:C:1857:GLU:O	1:C:1861:GLN:OE1	2.32	0.47
1:C:1962:ALA:O	1:C:1966:VAL:HG13	2.14	0.47
1:C:2204:HIS:NE2	1:C:2205:GLU:OE2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2212:VAL:HG11	1:C:2256:TYR:HE2	1.79	0.47
1:C:2687:ALA:HB1	1:C:2966:TRP:HH2	1.75	0.47
1:C:2916:LYS:HG3	1:C:2920:ARG:HB2	1.96	0.47
1:A:2036:GLN:O	1:A:2045:GLN:OE1	2.32	0.47
1:A:2430:ILE:HG21	1:A:2502:MET:HA	1.97	0.47
1:A:2660:GLY:HA3	1:A:2666:VAL:HG12	1.97	0.47
1:A:2816:MET:HG2	1:A:2878:LEU:CD1	2.44	0.47
1:A:3039:ILE:CG1	1:A:3071:LEU:HD11	2.44	0.47
1:A:3277:LEU:CD2	1:A:3315:LEU:HD22	2.44	0.47
1:A:3607:GLU:O	1:A:3611:HIS:CD2	2.68	0.47
1:A:3775:ALA:O	1:A:3779:VAL:HG23	2.13	0.47
2:H:25:HIS:CB	2:H:102:GLU:OE2	2.63	0.47
1:B:414:PHE:CD2	1:B:418:LEU:HD11	2.49	0.47
1:B:656:SER:HA	1:B:852:VAL:HG22	1.96	0.47
1:B:1857:GLU:O	1:B:1861:GLN:OE1	2.32	0.47
1:B:1962:ALA:O	1:B:1966:VAL:HG13	2.14	0.47
1:B:2012:PHE:HD2	1:B:2021:CYS:HG	1.60	0.47
1:B:2674:LEU:HA	1:B:2677:LYS:CE	2.41	0.47
1:B:2700:MET:O	1:B:2704:CYS:SG	2.72	0.47
1:B:2977:LEU:HD22	1:B:3056:LEU:CD2	2.45	0.47
1:B:3162:GLN:O	1:B:3166:TYR:CD2	2.67	0.47
1:B:3607:GLU:O	1:B:3611:HIS:CD2	2.68	0.47
1:B:4056:GLU:HG3	1:B:4166:LEU:HD13	1.95	0.47
1:B:4580:TYR:O	1:C:4879:MET:HG2	2.15	0.47
1:D:883:ALA:HB1	1:D:907:LEU:HD13	1.95	0.47
1:D:2440:MET:SD	1:D:2440:MET:C	2.92	0.47
1:D:3320:LEU:HD12	1:D:3353:LEU:HD21	1.97	0.47
1:D:3775:ALA:O	1:D:3779:VAL:HG23	2.13	0.47
1:D:4060:LYS:O	1:D:4064:MET:HG3	2.13	0.47
1:C:553:ARG:NE	1:C:555:GLU:OE2	2.44	0.47
1:C:1575:LEU:CD2	1:C:1579:MET:SD	3.02	0.47
1:C:2969:ILE:O	1:C:2972:GLU:HG3	2.15	0.47
1:C:2981:VAL:O	1:C:2985:ARG:NH1	2.48	0.47
1:C:3607:GLU:O	1:C:3611:HIS:CD2	2.68	0.47
1:C:4644:TRP:O	1:C:4648:LEU:HD13	2.15	0.47
1:A:144:GLU:OE2	1:D:2452:ARG:NH1	2.47	0.47
1:A:414:PHE:CD2	1:A:418:LEU:HD11	2.50	0.47
1:A:943:ASP:N	1:A:943:ASP:OD1	2.48	0.47
1:A:1435:TYR:CE2	1:A:1550:PRO:HB3	2.50	0.47
1:A:2611:CYS:CB	1:A:2643:LEU:HD11	2.45	0.47
1:A:2911:LEU:HD12	1:A:2912:THR:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2969:ILE:O	1:A:2972:GLU:HG3	2.15	0.47
1:A:2980:VAL:HG11	1:A:2986:VAL:HG12	1.97	0.47
1:A:3969:ILE:CG2	1:A:3980:LEU:HD12	2.45	0.47
1:A:4835:LYS:O	1:A:4839:MET:HG2	2.14	0.47
2:G:84:ALA:CB	2:G:94:HIS:CE1	2.97	0.47
1:B:909:ASN:ND2	1:B:965:TYR:CD2	2.78	0.47
1:B:919:ASN:O	1:B:923:GLN:OE1	2.33	0.47
1:B:1575:LEU:CD2	1:B:1579:MET:SD	3.02	0.47
1:B:2430:ILE:HG21	1:B:2502:MET:HA	1.97	0.47
1:B:2538:THR:O	1:B:2542:SER:OG	2.31	0.47
1:B:2801:ASP:O	1:B:2804:ILE:HG12	2.14	0.47
1:B:3277:LEU:CD2	1:B:3315:LEU:HD22	2.44	0.47
1:B:3384:LYS:H	1:B:3387:ALA:HB3	1.78	0.47
1:B:3415:TYR:O	1:B:3419:ASN:ND2	2.35	0.47
1:B:3702:VAL:HG11	1:B:3773:ARG:O	2.15	0.47
1:B:3971:GLY:N	1:B:3972:PRO:HA	2.30	0.47
1:B:4718:LYS:O	1:B:4722:ARG:NH2	2.48	0.47
1:B:4827:LEU:HD23	1:B:4831:THR:CG2	2.44	0.47
1:B:4876:CYS:HA	1:B:4882:CYS:HB2	1.96	0.47
1:D:787:VAL:HG22	1:D:789:VAL:HG23	1.96	0.47
1:D:1858:ASP:O	1:D:1862:ILE:HG13	2.15	0.47
1:D:2204:HIS:NE2	1:D:2205:GLU:OE2	2.47	0.47
1:D:2377:LEU:HD13	1:D:2469:ILE:HG13	1.96	0.47
1:D:2524:VAL:HG23	1:D:2525:GLY:N	2.30	0.47
1:D:2541:PHE:HA	1:D:2544:THR:HG23	1.95	0.47
1:D:2660:GLY:HA3	1:D:2666:VAL:HG12	1.97	0.47
1:D:2981:VAL:O	1:D:2985:ARG:NH1	2.48	0.47
1:D:4027:LEU:HD22	1:D:4044:MET:HE2	1.95	0.47
1:D:4069:LYS:HE2	1:D:4129:ALA:HB1	1.96	0.47
1:D:4827:LEU:HD23	1:D:4831:THR:CG2	2.44	0.47
1:C:913:LEU:HD11	1:C:918:ARG:HG2	1.97	0.47
1:C:2035:HIS:ND1	1:C:3657:TYR:OH	2.17	0.47
1:C:2214:VAL:HG21	1:C:2228:MET:HE2	1.96	0.47
1:C:3087:ILE:HG13	1:C:3088:VAL:N	2.30	0.47
1:C:3415:TYR:O	1:C:3419:ASN:ND2	2.35	0.47
1:A:1819:VAL:HG22	1:A:1926:LEU:HD21	1.96	0.47
1:A:2541:PHE:HA	1:A:2544:THR:HG23	1.95	0.47
1:A:3093:ARG:O	1:A:3097:GLU:OE1	2.33	0.47
1:A:3315:LEU:O	1:A:3319:ILE:HG12	2.14	0.47
1:A:4885:PHE:HE2	1:A:4897:ILE:HD11	1.73	0.47
1:B:1207:ASP:O	1:B:1210:SER:OG	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1658:ASP:OD1	1:B:1658:ASP:N	2.48	0.47
1:B:2036:GLN:O	1:B:2045:GLN:OE1	2.32	0.47
1:B:2155:LEU:CD1	1:B:2185:ILE:HG23	2.44	0.47
1:B:2214:VAL:HG21	1:B:2228:MET:HE2	1.97	0.47
1:B:2325:PRO:O	1:B:2329:GLU:OE1	2.33	0.47
1:B:2675:THR:CG2	1:B:2706:ILE:HG23	2.44	0.47
1:B:3040:THR:HG21	1:B:3080:VAL:HG21	1.96	0.47
1:B:3111:ARG:NH2	1:B:3178:THR:HG21	2.29	0.47
1:B:4705:VAL:HG22	1:B:4711:PHE:CD1	2.49	0.47
1:D:322:LYS:NZ	1:D:354:GLY:O	2.46	0.47
1:D:368:ARG:HH22	1:D:2308:GLN:HB2	1.79	0.47
1:D:414:PHE:CD2	1:D:418:LEU:HD11	2.50	0.47
1:D:891:TRP:HE1	1:D:902:ARG:CZ	2.28	0.47
1:D:913:LEU:HD11	1:D:918:ARG:HG2	1.97	0.47
1:D:2155:LEU:CD1	1:D:2185:ILE:HG23	2.44	0.47
1:D:2685:SER:O	1:D:2689:LYS:HG2	2.14	0.47
1:D:3607:GLU:O	1:D:3611:HIS:CD2	2.68	0.47
1:D:3628:ARG:O	1:D:3631:ALA:N	2.42	0.47
1:D:4552:LEU:HD12	1:D:4663:CYS:SG	2.53	0.47
1:D:4680:LYS:O	1:D:4685:GLY:N	2.47	0.47
1:D:4718:LYS:O	1:D:4722:ARG:NH2	2.48	0.47
1:C:273:HIS:CE1	1:C:334:MET:HB3	2.49	0.47
1:C:1858:ASP:O	1:C:1862:ILE:HG13	2.15	0.47
1:C:2930:LEU:O	1:C:2935:TYR:N	2.47	0.47
1:C:2977:LEU:HD22	1:C:3056:LEU:CD2	2.45	0.47
1:C:3375:GLU:O	1:C:3379:LEU:HG	2.15	0.47
1:C:3969:ILE:CG2	1:C:3980:LEU:HD12	2.45	0.47
1:A:2261:SER:O	1:A:2264:GLY:N	2.48	0.47
1:A:2685:SER:O	1:A:2689:LYS:HG2	2.14	0.47
1:A:2872:GLN:O	1:A:2875:ALA:N	2.48	0.47
1:A:3105:LYS:CE	1:A:3128:ASN:HD22	2.27	0.47
1:A:4827:LEU:HD23	1:A:4831:THR:CG2	2.44	0.47
1:B:2238:TYR:O	1:B:2239:PHE:C	2.53	0.47
1:B:2575:ARG:NH1	1:B:2578:MET:HE1	2.29	0.47
1:B:4885:PHE:HE2	1:B:4897:ILE:HD11	1.74	0.47
1:D:554:LEU:HD11	1:D:1593:PRO:HD3	1.96	0.47
1:D:1088:TRP:HA	1:D:1224:GLU:O	2.15	0.47
1:D:2123:LEU:O	1:D:2127:GLN:HG2	2.15	0.47
1:D:2586:VAL:HG13	1:D:2607:LEU:HD13	1.96	0.47
1:D:2980:VAL:HG11	1:D:2986:VAL:HG12	1.97	0.47
1:D:3039:ILE:CG1	1:D:3071:LEU:HD11	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3087:ILE:HG13	1:D:3088:VAL:N	2.30	0.47
1:D:3641:LEU:HD11	1:D:3649:ALA:CB	2.45	0.47
1:D:4001:MET:HG3	1:D:4057:MET:SD	2.54	0.47
1:C:943:ASP:N	1:C:943:ASP:OD1	2.47	0.47
1:C:1101:ARG:CZ	1:C:1114:GLU:OE2	2.63	0.47
1:C:2238:TYR:O	1:C:2239:PHE:C	2.53	0.47
1:C:3093:ARG:O	1:C:3097:GLU:OE1	2.33	0.47
1:C:3270:ILE:HD12	1:C:3270:ILE:H	1.79	0.47
1:A:1453:VAL:HG13	1:A:1551:ALA:HB3	1.96	0.47
1:A:1858:ASP:O	1:A:1862:ILE:HG13	2.15	0.47
1:A:2267:MET:O	1:A:2330:ARG:NH2	2.48	0.47
1:A:3040:THR:HG21	1:A:3080:VAL:HG21	1.96	0.47
1:A:3634:ALA:O	1:A:3638:MET:HG3	2.15	0.47
1:A:4069:LYS:HE2	1:A:4129:ALA:HB1	1.96	0.47
1:A:4705:VAL:HG22	1:A:4711:PHE:CD1	2.49	0.47
1:B:299:LEU:HD23	1:B:376:ALA:O	2.15	0.47
1:B:955:LEU:HD23	1:B:969:PRO:HD3	1.96	0.47
1:B:1088:TRP:HA	1:B:1224:GLU:O	2.15	0.47
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.15	0.47
1:B:2261:SER:O	1:B:2264:GLY:N	2.48	0.47
1:B:2611:CYS:CB	1:B:2643:LEU:HD11	2.45	0.47
1:B:2660:GLY:HA3	1:B:2666:VAL:HG12	1.97	0.47
1:B:4644:TRP:O	1:B:4648:LEU:HD13	2.15	0.47
1:B:4750:ILE:HA	1:B:4753:HIS:HD2	1.80	0.47
1:D:656:SER:HA	1:D:852:VAL:HG22	1.96	0.47
1:D:943:ASP:N	1:D:943:ASP:OD1	2.48	0.47
1:D:2325:PRO:O	1:D:2329:GLU:OE1	2.33	0.47
1:D:2430:ILE:HG21	1:D:2502:MET:HA	1.97	0.47
1:D:2930:LEU:O	1:D:2935:TYR:N	2.47	0.47
1:D:4705:VAL:HG22	1:D:4711:PHE:CD1	2.49	0.47
1:C:110:ARG:HD3	1:C:115:ARG:HE	1.79	0.47
1:C:299:LEU:HD23	1:C:376:ALA:O	2.15	0.47
1:C:414:PHE:CD2	1:C:418:LEU:HD11	2.49	0.47
1:C:1658:ASP:N	1:C:1658:ASP:OD1	2.48	0.47
1:C:1762:LEU:HD12	1:C:1863:LEU:HD13	1.97	0.47
1:C:2166:LEU:CD1	1:C:2206:THR:HG23	2.44	0.47
1:C:2469:ILE:HG21	1:C:2502:MET:HE3	1.97	0.47
1:C:2524:VAL:HG23	1:C:2525:GLY:N	2.30	0.47
1:C:2952:GLU:HA	1:C:2957:PHE:CD2	2.50	0.47
1:C:3546:ASP:O	1:C:3549:VAL:HG22	2.14	0.47
1:C:4170:ILE:H	1:C:4170:ILE:HD12	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:554:LEU:HD11	1:A:1593:PRO:HD3	1.96	0.46
1:A:1575:LEU:CD2	1:A:1579:MET:SD	3.02	0.46
1:A:2377:LEU:HD13	1:A:2469:ILE:HG13	1.96	0.46
1:A:2524:VAL:HG23	1:A:2525:GLY:N	2.30	0.46
1:A:2981:VAL:O	1:A:2985:ARG:NH1	2.48	0.46
1:A:3546:ASP:O	1:A:3549:VAL:HG22	2.14	0.46
1:A:3641:LEU:HD11	1:A:3649:ALA:CB	2.45	0.46
1:A:3702:VAL:HG11	1:A:3773:ARG:O	2.15	0.46
1:A:3733:CYS:SG	1:A:3770:LEU:HD12	2.55	0.46
1:A:4750:ILE:HA	1:A:4753:HIS:HD2	1.81	0.46
1:A:4866:SER:OG	1:A:4872:PRO:HA	2.16	0.46
1:B:110:ARG:HD3	1:B:115:ARG:HE	1.79	0.46
1:B:891:TRP:HE1	1:B:902:ARG:CZ	2.28	0.46
1:B:1101:ARG:CZ	1:B:1114:GLU:OE2	2.63	0.46
1:B:2524:VAL:HG23	1:B:2525:GLY:N	2.30	0.46
1:B:2889:LYS:HE3	1:B:2890:LYS:HZ2	1.80	0.46
1:B:4170:ILE:H	1:B:4170:ILE:HD12	1.80	0.46
1:D:476:SER:O	1:D:480:GLU:HG2	2.15	0.46
1:D:1101:ARG:CZ	1:D:1114:GLU:OE2	2.63	0.46
1:D:2238:TYR:O	1:D:2239:PHE:C	2.53	0.46
1:D:2674:LEU:O	1:D:2677:LYS:HG3	2.16	0.46
1:D:3209:GLN:HG2	1:D:3210:LEU:HG	1.96	0.46
1:D:3378:GLN:NE2	1:D:3382:GLU:OE1	2.48	0.46
1:D:3508:SER:OG	1:D:3510:ILE:HG22	2.15	0.46
1:D:3955:MET:HE2	1:D:4015:GLU:HG2	1.96	0.46
1:D:3969:ILE:CG2	1:D:3980:LEU:HD12	2.45	0.46
1:D:3971:GLY:N	1:D:3972:PRO:HA	2.30	0.46
1:D:4170:ILE:H	1:D:4170:ILE:HD12	1.80	0.46
1:D:4720:VAL:HA	1:D:4723:LYS:HE2	1.97	0.46
1:D:4876:CYS:HA	1:D:4882:CYS:HB2	1.96	0.46
1:C:632:LEU:O	1:C:634:GLN:NE2	2.45	0.46
1:C:1435:TYR:CE2	1:C:1550:PRO:HB3	2.50	0.46
1:C:2261:SER:O	1:C:2264:GLY:N	2.48	0.46
1:C:2267:MET:O	1:C:2330:ARG:NH2	2.48	0.46
1:C:2586:VAL:HG13	1:C:2607:LEU:HD13	1.96	0.46
1:C:2911:LEU:HD12	1:C:2912:THR:O	2.15	0.46
1:C:3039:ILE:CG1	1:C:3071:LEU:HD11	2.45	0.46
1:C:3209:GLN:HG2	1:C:3210:LEU:HG	1.96	0.46
1:C:3277:LEU:CD2	1:C:3315:LEU:HD22	2.44	0.46
1:C:4001:MET:HG3	1:C:4057:MET:SD	2.54	0.46
1:C:4686:LEU:HG	1:C:4687:TYR:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:28:VAL:C	1:A:29:LEU:HD23	2.36	0.46
1:A:1842:LEU:HD13	1:A:1938:GLN:HB2	1.97	0.46
1:A:2292:GLU:HA	1:A:2295:LEU:HD12	1.96	0.46
1:A:2369[A]:ARG:NH2	1:A:2372:GLY:O	2.45	0.46
1:A:3003:LEU:HB2	1:A:3004:PRO:HD3	1.97	0.46
1:A:3571:TRP:HE3	1:A:3575:LEU:HD23	1.81	0.46
2:G:79:ASP:OD1	2:G:80:TYR:HD2	1.98	0.46
2:F:25:HIS:CB	2:F:102:GLU:OE2	2.63	0.46
1:B:1962:ALA:O	1:B:1966:VAL:HG22	2.15	0.46
1:B:2823:ILE:HG23	1:B:2823:ILE:O	2.16	0.46
1:B:3087:ILE:HG13	1:B:3088:VAL:N	2.30	0.46
1:B:3270:ILE:H	1:B:3270:ILE:HD12	1.79	0.46
1:B:3640:PRO:O	1:B:3643:ASN:N	2.41	0.46
1:B:3641:LEU:HD11	1:B:3649:ALA:CB	2.45	0.46
1:B:3969:ILE:CG2	1:B:3980:LEU:HD12	2.45	0.46
1:D:2872:GLN:O	1:D:2875:ALA:N	2.48	0.46
1:D:2969:ILE:O	1:D:2972:GLU:HG3	2.15	0.46
1:D:3315:LEU:O	1:D:3319:ILE:HG12	2.14	0.46
1:D:3634:ALA:O	1:D:3638:MET:HG3	2.15	0.46
1:D:3702:VAL:HG11	1:D:3773:ARG:O	2.15	0.46
1:D:3720:TYR:HA	1:D:3723:MET:HE3	1.96	0.46
1:D:4202:ARG:O	1:D:4206:GLU:OE1	2.34	0.46
1:D:4866:SER:OG	1:D:4872:PRO:HA	2.16	0.46
1:C:829:TYR:O	1:C:840:VAL:N	2.42	0.46
1:C:955:LEU:HD23	1:C:969:PRO:HD3	1.96	0.46
1:C:1962:ALA:O	1:C:1966:VAL:HG22	2.16	0.46
1:C:2155:LEU:CD1	1:C:2185:ILE:HG23	2.44	0.46
1:C:2199:ARG:NE	1:C:2246:ASN:OD1	2.49	0.46
1:C:3148:ALA:O	1:C:3151:GLN:NE2	2.49	0.46
1:C:3508:SER:OG	1:C:3510:ILE:HG22	2.15	0.46
1:A:299:LEU:HD23	1:A:376:ALA:O	2.15	0.46
1:A:476:SER:O	1:A:480:GLU:HG2	2.15	0.46
1:A:656:SER:HA	1:A:852:VAL:HG22	1.96	0.46
1:A:955:LEU:HD23	1:A:969:PRO:HD3	1.96	0.46
1:A:1024:TYR:O	1:A:1027:LEU:N	2.48	0.46
1:A:2916:LYS:HG3	1:A:2920:ARG:HB2	1.96	0.46
1:A:3148:ALA:O	1:A:3151:GLN:NE2	2.49	0.46
1:B:2872:GLN:O	1:B:2875:ALA:N	2.48	0.46
1:B:2971:GLN:O	1:B:2974:ILE:HG13	2.16	0.46
1:B:3003:LEU:HB2	1:B:3004:PRO:HD3	1.97	0.46
1:D:1453:VAL:HG13	1:D:1551:ALA:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1762:LEU:HD12	1:D:1863:LEU:HD13	1.97	0.46
1:D:1842:LEU:HD13	1:D:1938:GLN:HB2	1.97	0.46
1:D:1962:ALA:O	1:D:1966:VAL:HG22	2.16	0.46
1:D:2267:MET:O	1:D:2330:ARG:NH2	2.48	0.46
1:D:2469:ILE:HG21	1:D:2502:MET:HE3	1.97	0.46
1:D:2687:ALA:HB1	1:D:2966:TRP:HH2	1.75	0.46
1:D:3365:LEU:HD12	1:D:3408:LEU:HD21	1.98	0.46
1:D:3384:LYS:H	1:D:3387:ALA:HB3	1.78	0.46
1:D:4851:TYR:HD1	1:D:4916:PHE:CE1	2.34	0.46
1:C:1819:VAL:HG22	1:C:1926:LEU:HD21	1.96	0.46
1:C:1842:LEU:HD13	1:C:1938:GLN:HB2	1.97	0.46
1:C:2285:GLU:H	1:C:3858:MET:HE1	1.79	0.46
1:C:3641:LEU:HD11	1:C:3649:ALA:CB	2.45	0.46
1:A:647:ASN:OD1	1:A:821:LEU:HD12	2.16	0.46
1:A:1101:ARG:CZ	1:A:1114:GLU:OE2	2.63	0.46
1:A:2823:ILE:HG23	1:A:2823:ILE:O	2.16	0.46
1:A:3971:GLY:N	1:A:3972:PRO:HA	2.30	0.46
1:A:5034:ASP:OD2	1:A:5034:ASP:N	2.49	0.46
2:F:79:ASP:OD1	2:F:80:TYR:HD2	1.98	0.46
1:B:231:LEU:HD11	1:B:245:VAL:CG1	2.44	0.46
1:B:2182:ILE:HB	1:B:2186:MET:HE1	1.98	0.46
1:B:2894:LEU:O	1:B:2898:GLY:N	2.36	0.46
1:B:2952:GLU:HA	1:B:2957:PHE:CD2	2.50	0.46
1:B:2969:ILE:O	1:B:2972:GLU:HG3	2.15	0.46
1:B:3556:ASN:O	1:B:3559:LEU:N	2.37	0.46
1:B:3571:TRP:HE3	1:B:3575:LEU:HD23	1.81	0.46
1:B:3634:ALA:O	1:B:3638:MET:HG3	2.15	0.46
1:B:4069:LYS:HE2	1:B:4129:ALA:HB1	1.96	0.46
1:B:4202:ARG:O	1:B:4206:GLU:OE1	2.34	0.46
1:B:4674:GLU:OE2	1:B:4775:TYR:OH	2.30	0.46
1:D:2611:CYS:CB	1:D:2643:LEU:HD11	2.45	0.46
1:D:3093:ARG:O	1:D:3097:GLU:OE1	2.33	0.46
1:D:3546:ASP:O	1:D:3549:VAL:HG22	2.14	0.46
1:C:59:PRO:HB2	1:C:290:TYR:CZ	2.51	0.46
1:C:322:LYS:NZ	1:C:354:GLY:O	2.46	0.46
1:C:554:LEU:HD11	1:C:1593:PRO:HD3	1.96	0.46
1:C:891:TRP:HE1	1:C:902:ARG:CZ	2.28	0.46
1:C:1207:ASP:O	1:C:1210:SER:OG	2.24	0.46
1:C:2674:LEU:O	1:C:2677:LYS:HG3	2.16	0.46
1:C:3003:LEU:HB2	1:C:3004:PRO:HD3	1.97	0.46
1:C:3052:HIS:NE2	1:C:3128:ASN:CG	2.65	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3320:LEU:HD12	1:C:3353:LEU:HD21	1.97	0.46
1:C:3459:VAL:HG11	1:C:3503:TYR:CG	2.51	0.46
1:C:4069:LYS:HE2	1:C:4129:ALA:HB1	1.96	0.46
1:C:4702:ASP:O	1:C:4705:VAL:HG12	2.14	0.46
1:C:4827:LEU:HD23	1:C:4831:THR:CG2	2.44	0.46
1:A:913:LEU:HD11	1:A:918:ARG:HG2	1.97	0.46
1:A:1088:TRP:HA	1:A:1224:GLU:O	2.15	0.46
1:A:1786:LEU:CD2	2:E:85:THR:HG21	2.45	0.46
1:A:2255:SER:O	1:A:2258:LEU:N	2.48	0.46
1:A:2539:ALA:N	1:A:2593:ARG:HH21	2.14	0.46
1:A:2575:ARG:O	1:A:2579:VAL:HG23	2.16	0.46
1:A:2687:ALA:HB1	1:A:2966:TRP:HH2	1.76	0.46
1:A:3388:GLU:OE1	1:A:3388:GLU:N	2.46	0.46
1:A:4096:ALA:O	1:A:4100:GLN:HG2	2.16	0.46
1:A:4686:LEU:HG	1:A:4687:TYR:N	2.30	0.46
1:A:4720:VAL:HA	1:A:4723:LYS:HE2	1.97	0.46
2:E:1:GLY:N	2:E:80:TYR:CE2	2.84	0.46
2:H:79:ASP:OD1	2:H:80:TYR:HD2	1.98	0.46
2:G:21:THR:CA	2:G:49:MET:SD	3.03	0.46
2:F:21:THR:CA	2:F:49:MET:SD	3.03	0.46
2:F:55:VAL:CG1	2:F:59:TRP:HB2	2.46	0.46
1:B:1105:ALA:O	1:B:1189:LEU:N	2.41	0.46
1:B:1435:TYR:CE2	1:B:1550:PRO:HB3	2.50	0.46
1:B:2586:VAL:HG13	1:B:2607:LEU:HD13	1.96	0.46
1:B:2674:LEU:O	1:B:2677:LYS:HG3	2.16	0.46
1:B:2888:ARG:O	1:B:2892:GLN:HG2	2.16	0.46
1:B:2980:VAL:HG11	1:B:2986:VAL:HG12	1.97	0.46
1:B:2981:VAL:O	1:B:2985:ARG:NH1	2.48	0.46
1:B:3283:ARG:HG2	1:B:3287:ARG:NH2	2.28	0.46
1:B:3375:GLU:O	1:B:3379:LEU:HG	2.15	0.46
1:B:3733:CYS:SG	1:B:3770:LEU:HD12	2.55	0.46
1:B:3833:GLN:O	1:B:3837:GLN:OE1	2.34	0.46
1:B:4686:LEU:HG	1:B:4687:TYR:N	2.30	0.46
1:D:919:ASN:O	1:D:923:GLN:OE1	2.33	0.46
1:D:1008:SER:OG	1:D:1010:VAL:O	2.09	0.46
1:D:2199:ARG:NE	1:D:2246:ASN:OD1	2.49	0.46
1:D:2823:ILE:HG23	1:D:2823:ILE:O	2.16	0.46
1:D:3556:ASN:O	1:D:3559:LEU:N	2.37	0.46
1:D:3941:ASP:OD1	1:D:3941:ASP:N	2.49	0.46
1:D:4644:TRP:O	1:D:4648:LEU:HD13	2.15	0.46
1:C:985:VAL:HG11	1:C:1040:CYS:SG	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1860:LYS:O	1:C:1864:LYS:HG2	2.16	0.46
1:C:2566:ALA:HB1	1:C:2613:TYR:HD2	1.81	0.46
1:C:2674:LEU:HA	1:C:2677:LYS:CE	2.41	0.46
1:C:2758:PHE:CD1	1:C:2929:PHE:CD2	3.04	0.46
1:C:2971:GLN:O	1:C:2974:ILE:HG13	2.16	0.46
1:C:3365:LEU:HD12	1:C:3408:LEU:HD21	1.98	0.46
1:C:3734:HIS:C	1:C:3735:LEU:HD23	2.36	0.46
1:C:4851:TYR:HD1	1:C:4916:PHE:CE1	2.34	0.46
1:A:281:ARG:NH2	1:A:309:THR:OG1	2.49	0.46
1:A:689:THR:HG21	1:A:776:LEU:HB2	1.98	0.46
1:A:717:ASP:O	1:A:737:LEU:HD12	2.16	0.46
1:A:891:TRP:HE1	1:A:902:ARG:CZ	2.28	0.46
1:A:1453:VAL:HG22	1:A:1551:ALA:HB2	1.98	0.46
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.15	0.46
1:A:2674:LEU:O	1:A:2677:LYS:HG3	2.16	0.46
1:A:3061:ALA:O	1:A:3064:VAL:HG22	2.16	0.46
1:A:3087:ILE:HG13	1:A:3088:VAL:N	2.30	0.46
1:A:3459:VAL:HG11	1:A:3503:TYR:CG	2.51	0.46
1:A:4170:ILE:HD12	1:A:4170:ILE:H	1.80	0.46
2:E:79:ASP:OD1	2:E:80:TYR:HD2	1.98	0.46
2:H:1:GLY:N	2:H:80:TYR:CE2	2.84	0.46
2:H:16:PRO:HG2	2:H:63:VAL:HG12	1.98	0.46
1:B:2205:GLU:O	1:B:2209:GLU:OE1	2.34	0.46
1:B:2267:MET:O	1:B:2330:ARG:NH2	2.48	0.46
1:B:2292:GLU:HA	1:B:2295:LEU:HD12	1.96	0.46
1:B:2972:GLU:OE2	1:B:2991:HIS:NE2	2.49	0.46
1:B:3093:ARG:O	1:B:3097:GLU:OE1	2.33	0.46
1:B:3283:ARG:NH1	1:B:3287:ARG:NH2	2.64	0.46
1:B:3459:VAL:HG11	1:B:3503:TYR:CG	2.51	0.46
1:B:3734:HIS:C	1:B:3735:LEU:HD23	2.36	0.46
1:B:4096:ALA:O	1:B:4100:GLN:HG2	2.16	0.46
1:B:4782:VAL:O	1:B:4785:THR:OG1	2.32	0.46
1:D:59:PRO:HB2	1:D:290:TYR:CZ	2.51	0.46
1:D:322:LYS:HG3	1:D:322:LYS:O	2.16	0.46
1:D:647:ASN:OD1	1:D:821:LEU:HD12	2.16	0.46
1:D:689:THR:HG21	1:D:776:LEU:HB2	1.98	0.46
1:D:925:SER:O	1:D:929:LEU:HG	2.16	0.46
1:D:1435:TYR:CE2	1:D:1550:PRO:HB3	2.50	0.46
1:D:2205:GLU:O	1:D:2209:GLU:OE1	2.34	0.46
1:D:2566:ALA:HB1	1:D:2613:TYR:HD2	1.80	0.46
1:D:2575:ARG:NH1	1:D:2578:MET:HE1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2911:LEU:HD12	1:D:2912:THR:O	2.15	0.46
1:D:3061:ALA:O	1:D:3064:VAL:HG22	2.16	0.46
1:D:4096:ALA:O	1:D:4100:GLN:HG2	2.16	0.46
1:C:1453:VAL:HG13	1:C:1551:ALA:HB3	1.96	0.46
1:C:2110:TYR:O	1:C:2112:GLN:NE2	2.39	0.46
1:C:2430:ILE:HG21	1:C:2502:MET:HA	1.97	0.46
1:C:2660:GLY:HA3	1:C:2666:VAL:HG12	1.97	0.46
1:C:3346:VAL:HG11	1:C:3414:ARG:HB2	1.97	0.46
1:C:3401:LEU:O	1:C:3405:LEU:HG	2.16	0.46
1:C:4902:GLU:O	1:C:4913:ARG:CZ	2.62	0.46
1:A:574:VAL:HA	1:A:577:ILE:HG12	1.98	0.46
1:A:919:ASN:O	1:A:923:GLN:OE1	2.33	0.46
1:A:2758:PHE:CD1	1:A:2929:PHE:CD2	3.04	0.46
1:A:2888:ARG:O	1:A:2892:GLN:HG2	2.16	0.46
1:A:2971:GLN:O	1:A:2974:ILE:HG13	2.16	0.46
2:E:57:ARG:O	2:E:58:GLY:C	2.54	0.46
2:H:49:MET:HB3	2:H:52:LYS:HE2	1.98	0.46
2:F:57:ARG:O	2:F:58:GLY:C	2.54	0.46
1:B:261:ARG:NH1	1:B:263:GLU:OE2	2.49	0.46
1:B:647:ASN:OD1	1:B:821:LEU:HD12	2.16	0.46
1:B:1453:VAL:HG13	1:B:1551:ALA:HB3	1.96	0.46
1:B:2255:SER:O	1:B:2258:LEU:N	2.48	0.46
1:B:2962:GLN:O	1:B:2966:TRP:HD1	1.98	0.46
1:B:3061:ALA:O	1:B:3064:VAL:HG22	2.16	0.46
1:B:3508:SER:OG	1:B:3510:ILE:HG22	2.15	0.46
1:D:717:ASP:O	1:D:737:LEU:HD12	2.16	0.46
1:D:1126:GLY:O	1:D:1129:GLY:N	2.44	0.46
1:D:1259:ARG:NH2	1:D:1591:CYS:SG	2.89	0.46
1:D:1658:ASP:N	1:D:1658:ASP:OD1	2.48	0.46
1:D:1965:TYR:CE2	1:D:1969:LEU:HD11	2.51	0.46
1:D:2816:MET:HG2	1:D:2878:LEU:CD1	2.44	0.46
1:D:2972:GLU:OE2	1:D:2991:HIS:NE2	2.49	0.46
1:D:3459:VAL:HG11	1:D:3503:TYR:CG	2.51	0.46
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.15	0.46
1:C:2205:GLU:O	1:C:2209:GLU:OE1	2.34	0.46
1:C:2972:GLU:OE2	1:C:2991:HIS:NE2	2.49	0.46
1:C:3061:ALA:O	1:C:3064:VAL:HG22	2.16	0.46
1:C:3283:ARG:NH1	1:C:3287:ARG:NH2	2.64	0.46
1:C:3971:GLY:N	1:C:3972:PRO:HA	2.30	0.46
1:A:861:ILE:HG23	1:A:861:ILE:O	2.16	0.46
1:A:1508:ARG:HA	1:A:1508:ARG:HE	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1847:THR:O	1:A:1851:MET:HG3	2.16	0.46
1:A:1860:LYS:O	1:A:1864:LYS:HG2	2.16	0.46
1:A:2586:VAL:HG13	1:A:2607:LEU:HD13	1.96	0.46
1:A:2927:LEU:O	1:A:2931:GLN:HG2	2.16	0.46
1:A:3346:VAL:HG11	1:A:3414:ARG:HB2	1.98	0.46
1:A:4851:TYR:HD1	1:A:4916:PHE:CE1	2.34	0.46
1:A:4903:ASP:OD2	1:A:4905:ALA:HB2	2.16	0.46
2:H:21:THR:CA	2:H:49:MET:SD	3.03	0.46
1:B:894:GLY:HA3	1:B:903:LEU:HB3	1.98	0.46
1:B:1286:MET:CE	1:B:1555:LEU:HD12	2.46	0.46
1:B:1847:THR:O	1:B:1851:MET:HG3	2.16	0.46
1:B:3320:LEU:HD12	1:B:3353:LEU:HD21	1.97	0.46
1:D:28:VAL:C	1:D:29:LEU:HD23	2.36	0.46
1:D:1508:ARG:HA	1:D:1508:ARG:HE	1.81	0.46
1:D:2927:LEU:O	1:D:2931:GLN:HG2	2.16	0.46
1:D:2977:LEU:HD22	1:D:3056:LEU:CD2	2.45	0.46
1:D:3617:LYS:HG3	1:D:3618:ALA:N	2.31	0.46
1:D:4750:ILE:HA	1:D:4753:HIS:HD2	1.80	0.46
1:C:28:VAL:C	1:C:29:LEU:HD23	2.36	0.46
1:C:261:ARG:NH1	1:C:263:GLU:OE2	2.49	0.46
1:C:939:VAL:HG23	1:C:1053:ILE:HD13	1.98	0.46
1:C:1847:THR:O	1:C:1851:MET:HG3	2.16	0.46
1:C:2611:CYS:CB	1:C:2643:LEU:HD11	2.45	0.46
1:C:2816:MET:HG2	1:C:2878:LEU:CD1	2.44	0.46
1:C:2888:ARG:O	1:C:2892:GLN:HG2	2.16	0.46
1:C:4750:ILE:HA	1:C:4753:HIS:HD2	1.81	0.46
1:A:581:ASN:OD1	1:A:582:HIS:N	2.49	0.46
1:A:1962:ALA:O	1:A:1966:VAL:HG22	2.16	0.46
1:A:2199:ARG:NE	1:A:2246:ASN:OD1	2.49	0.46
1:A:2205:GLU:O	1:A:2209:GLU:OE1	2.34	0.46
1:A:2536:LEU:O	1:A:2538:THR:N	2.48	0.46
1:A:2977:LEU:HD22	1:A:3056:LEU:CD2	2.45	0.46
1:A:4202:ARG:O	1:A:4206:GLU:OE1	2.34	0.46
2:E:4:VAL:HG22	2:E:74:LEU:CD2	2.46	0.46
2:E:21:THR:CA	2:E:49:MET:SD	3.03	0.46
2:F:4:VAL:HG22	2:F:74:LEU:CD2	2.46	0.46
1:B:28:VAL:C	1:B:29:LEU:HD23	2.36	0.46
1:B:149:THR:HG23	1:B:174:VAL:HG22	1.98	0.46
1:B:360:ALA:O	1:B:361:ALA:CB	2.64	0.46
1:B:581:ASN:OD1	1:B:582:HIS:N	2.49	0.46
1:B:913:LEU:HD11	1:B:918:ARG:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2715:VAL:HG22	1:B:2954:ARG:HA	1.98	0.46
1:B:2927:LEU:O	1:B:2931:GLN:HG2	2.16	0.46
1:B:3562:LYS:HZ2	1:B:3565:GLY:N	2.14	0.46
1:B:3617:LYS:HG3	1:B:3618:ALA:N	2.31	0.46
1:B:4851:TYR:HD1	1:B:4916:PHE:CE1	2.34	0.46
1:D:299:LEU:HD23	1:D:376:ALA:O	2.15	0.46
1:D:581:ASN:OD1	1:D:582:HIS:N	2.49	0.46
1:D:3277:LEU:HD21	1:D:3281:LEU:HD11	1.98	0.46
1:D:3283:ARG:HG2	1:D:3287:ARG:NH2	2.28	0.46
1:D:3337:ARG:HA	1:D:3340:VAL:HG22	1.98	0.46
1:D:3571:TRP:HE3	1:D:3575:LEU:HD23	1.81	0.46
1:D:3733:CYS:SG	1:D:3770:LEU:HD12	2.55	0.46
1:D:4903:ASP:OD2	1:D:4905:ALA:HB2	2.16	0.46
1:D:5036:LEU:O	1:D:5037:SER:CB	2.64	0.46
1:C:656:SER:HA	1:C:852:VAL:HG22	1.96	0.46
1:C:925:SER:O	1:C:929:LEU:HG	2.16	0.46
1:C:2369[A]:ARG:NH2	1:C:2372:GLY:O	2.45	0.46
1:C:2539:ALA:N	1:C:2593:ARG:HH21	2.14	0.46
1:C:2980:VAL:HG11	1:C:2986:VAL:HG12	1.97	0.46
1:C:3283:ARG:HG2	1:C:3287:ARG:NH2	2.28	0.46
1:C:3378:GLN:NE2	1:C:3382:GLU:OE1	2.48	0.46
1:C:3733:CYS:SG	1:C:3770:LEU:HD12	2.55	0.46
1:C:4241:THR:C	1:C:4245:MET:SD	2.94	0.46
1:A:2696:TYR:O	1:A:2700:MET:SD	2.74	0.46
1:A:3833:GLN:O	1:A:3837:GLN:OE1	2.34	0.46
1:A:4241:THR:C	1:A:4245:MET:SD	2.95	0.46
2:G:16:PRO:HG2	2:G:63:VAL:HG12	1.98	0.46
1:B:221:ARG:HH12	1:B:254:THR:HA	1.81	0.46
1:B:717:ASP:O	1:B:737:LEU:HD12	2.16	0.46
1:B:943:ASP:OD1	1:B:943:ASP:N	2.47	0.46
1:B:1286:MET:HB3	1:B:1288:PHE:CE1	2.51	0.46
1:B:1453:VAL:HG22	1:B:1551:ALA:HB2	1.98	0.46
1:B:2166:LEU:CD1	1:B:2206:THR:HG23	2.44	0.46
1:B:3265:GLU:HB2	1:B:3266:MET:HE1	1.98	0.46
1:B:3378:GLN:NE2	1:B:3382:GLU:OE1	2.48	0.46
1:B:4060:LYS:HG3	1:B:4064:MET:SD	2.56	0.46
1:B:4241:THR:C	1:B:4245:MET:SD	2.94	0.46
1:D:894:GLY:HA3	1:D:903:LEU:HB3	1.98	0.46
1:D:1984:PHE:HB2	1:D:1991:THR:HG21	1.98	0.46
1:D:2539:ALA:N	1:D:2593:ARG:HH21	2.14	0.46
1:D:3040:THR:HG21	1:D:3080:VAL:HG21	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:221:ARG:HH12	1:C:254:THR:HA	1.81	0.46
1:C:231:LEU:HD11	1:C:245:VAL:CG1	2.44	0.46
1:C:281:ARG:NH2	1:C:309:THR:OG1	2.49	0.46
1:C:476:SER:O	1:C:480:GLU:HG2	2.15	0.46
1:C:894:GLY:HA3	1:C:903:LEU:HB3	1.98	0.46
1:C:1965:TYR:CE2	1:C:1969:LEU:HD11	2.51	0.46
1:C:2182:ILE:HB	1:C:2186:MET:HE1	1.97	0.46
1:C:2536:LEU:O	1:C:2538:THR:N	2.48	0.46
1:C:2715:VAL:HG22	1:C:2954:ARG:HA	1.98	0.46
1:C:2872:GLN:O	1:C:2875:ALA:N	2.48	0.46
1:C:2962:GLN:O	1:C:2966:TRP:HD1	1.98	0.46
1:C:3108:GLU:O	1:C:3111:ARG:HB2	2.16	0.46
1:C:3111:ARG:HH22	1:C:3175:LEU:HD12	1.81	0.46
1:C:3145:GLN:OE1	1:C:3145:GLN:HA	2.16	0.46
1:C:3354:LEU:CD1	1:C:3415:TYR:CE2	2.99	0.46
1:A:2238:TYR:O	1:A:2239:PHE:C	2.53	0.45
1:A:2325:PRO:O	1:A:2329:GLU:OE1	2.33	0.45
1:A:2452:ARG:NH1	1:B:144:GLU:OE2	2.48	0.45
1:A:2469:ILE:HG21	1:A:2502:MET:HE3	1.98	0.45
1:A:2566:ALA:HB1	1:A:2613:TYR:HD2	1.81	0.45
1:A:3283:ARG:NH1	1:A:3287:ARG:NH2	2.64	0.45
1:A:3378:GLN:NE2	1:A:3382:GLU:OE1	2.48	0.45
1:A:3508:SER:OG	1:A:3510:ILE:HG22	2.15	0.45
1:A:4060:LYS:HG3	1:A:4064:MET:SD	2.56	0.45
1:B:554:LEU:HD11	1:B:1593:PRO:HD3	1.96	0.45
1:B:574:VAL:HA	1:B:577:ILE:HG12	1.98	0.45
1:B:708:GLY:N	1:B:713:SER:OG	2.43	0.45
1:B:861:ILE:HG23	1:B:861:ILE:O	2.16	0.45
1:B:939:VAL:HG23	1:B:1053:ILE:HD13	1.98	0.45
1:B:1069:TRP:CZ3	1:B:1112:ASP:CB	3.00	0.45
1:B:1508:ARG:HA	1:B:1508:ARG:HE	1.81	0.45
1:B:2696:TYR:O	1:B:2700:MET:SD	2.74	0.45
1:D:144:GLU:OE2	1:C:2452:ARG:NH1	2.49	0.45
1:D:293:LEU:HD13	1:D:378:LEU:HD13	1.99	0.45
1:D:2090:LYS:NZ	1:D:2092:GLN:OE1	2.45	0.45
1:D:2255:SER:O	1:D:2258:LEU:N	2.48	0.45
1:D:2971:GLN:O	1:D:2974:ILE:HG13	2.16	0.45
1:D:3003:LEU:HB2	1:D:3004:PRO:HD3	1.97	0.45
1:D:3734:HIS:C	1:D:3735:LEU:HD23	2.36	0.45
1:C:682:LEU:HD13	1:C:787:VAL:HG21	1.98	0.45
1:C:717:ASP:O	1:C:737:LEU:HD12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2816:MET:HE1	1:C:2823:ILE:HB	1.99	0.45
1:C:3157:ILE:HG22	1:C:3162:GLN:HG3	1.99	0.45
1:C:3634:ALA:O	1:C:3638:MET:HG3	2.15	0.45
1:C:3647:HIS:O	1:C:3651:ASN:ND2	2.49	0.45
1:A:925:SER:O	1:A:929:LEU:HG	2.16	0.45
1:A:1230:MET:CE	1:A:1234:VAL:HG22	2.46	0.45
1:A:1286:MET:HB3	1:A:1288:PHE:CE1	2.51	0.45
1:A:1965:TYR:CE2	1:A:1969:LEU:HD11	2.51	0.45
1:A:3617:LYS:HG3	1:A:3618:ALA:N	2.31	0.45
1:A:4580:TYR:CE2	1:A:4630:TYR:HB3	2.52	0.45
2:G:4:VAL:HG22	2:G:74:LEU:CD2	2.46	0.45
1:B:2575:ARG:O	1:B:2579:VAL:HG23	2.16	0.45
1:B:2793:PRO:O	1:B:2797:PHE:N	2.45	0.45
1:B:3337:ARG:HA	1:B:3340:VAL:HG22	1.98	0.45
1:B:3401:LEU:O	1:B:3405:LEU:HG	2.16	0.45
1:B:4866:SER:OG	1:B:4872:PRO:HA	2.16	0.45
1:D:360:ALA:O	1:D:361:ALA:CB	2.64	0.45
1:D:985:VAL:HG11	1:D:1040:CYS:SG	2.56	0.45
1:D:2182:ILE:HB	1:D:2186:MET:HE1	1.97	0.45
1:D:2261:SER:O	1:D:2264:GLY:N	2.48	0.45
1:D:3108:GLU:O	1:D:3111:ARG:HB2	2.16	0.45
1:D:3375:GLU:O	1:D:3379:LEU:HG	2.15	0.45
1:D:3647:HIS:O	1:D:3651:ASN:ND2	2.50	0.45
1:C:149:THR:HG23	1:C:174:VAL:HG22	1.98	0.45
1:C:647:ASN:OD1	1:C:821:LEU:HD12	2.16	0.45
1:C:1286:MET:HB3	1:C:1288:PHE:CE1	2.51	0.45
1:C:1508:ARG:HA	1:C:1508:ARG:HE	1.81	0.45
1:C:2927:LEU:O	1:C:2931:GLN:HG2	2.16	0.45
1:C:4060:LYS:HG3	1:C:4064:MET:SD	2.56	0.45
1:C:4202:ARG:O	1:C:4206:GLU:OE1	2.34	0.45
1:A:321:GLU:OE2	1:A:323:LEU:HD22	2.17	0.45
1:A:909:ASN:ND2	1:A:965:TYR:CD2	2.78	0.45
1:A:1259:ARG:NH2	1:A:1591:CYS:SG	2.89	0.45
1:A:2211:MET:CE	1:A:2232:CYS:HB2	2.47	0.45
1:A:2285:GLU:H	1:A:3858:MET:HE1	1.81	0.45
2:E:55:VAL:CG1	2:E:59:TRP:HB2	2.46	0.45
2:H:4:VAL:HG22	2:H:74:LEU:CD2	2.46	0.45
2:G:55:VAL:CG1	2:G:59:TRP:HB2	2.46	0.45
1:B:322:LYS:O	1:B:322:LYS:HG3	2.16	0.45
1:B:985:VAL:HG11	1:B:1040:CYS:SG	2.56	0.45
1:B:1858:ASP:O	1:B:1862:ILE:HG13	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2199:ARG:NE	1:B:2246:ASN:OD1	2.49	0.45
1:B:2579:VAL:O	1:B:2583:LEU:HG	2.17	0.45
1:B:2668:SER:O	1:B:2669:GLU:CG	2.59	0.45
1:B:3052:HIS:NE2	1:B:3128:ASN:CG	2.65	0.45
1:B:3145:GLN:OE1	1:B:3145:GLN:HA	2.17	0.45
1:B:3148:ALA:O	1:B:3151:GLN:NE2	2.49	0.45
1:B:3647:HIS:O	1:B:3651:ASN:ND2	2.50	0.45
1:D:231:LEU:HD11	1:D:245:VAL:CG1	2.44	0.45
1:D:682:LEU:HD13	1:D:787:VAL:HG21	1.98	0.45
1:D:1230:MET:CE	1:D:1234:VAL:HG22	2.46	0.45
1:D:1453:VAL:HG22	1:D:1551:ALA:HB2	1.98	0.45
1:D:3354:LEU:CD1	1:D:3415:TYR:CE2	2.99	0.45
1:D:3875:MET:HE1	1:D:3954:ALA:HB2	1.98	0.45
1:D:5034:ASP:OD2	1:D:5034:ASP:N	2.49	0.45
1:C:293:LEU:HD13	1:C:378:LEU:HD13	1.99	0.45
1:C:321:GLU:OE2	1:C:323:LEU:HD22	2.17	0.45
1:C:1088:TRP:HA	1:C:1224:GLU:O	2.15	0.45
1:C:3524:MET:HG2	1:C:3595:ARG:CD	2.46	0.45
1:C:4866:SER:OG	1:C:4872:PRO:HA	2.16	0.45
1:A:322:LYS:HG3	1:A:322:LYS:O	2.16	0.45
1:A:2182:ILE:HB	1:A:2186:MET:HE1	1.97	0.45
1:A:2715:VAL:HG22	1:A:2954:ARG:HA	1.98	0.45
1:A:3096:PHE:CD2	1:A:3161:VAL:HG12	2.52	0.45
1:A:3556:ASN:O	1:A:3559:LEU:N	2.37	0.45
2:E:49:MET:HB3	2:E:52:LYS:HE2	1.98	0.45
1:B:281:ARG:NH2	1:B:309:THR:OG1	2.49	0.45
1:B:1505:GLN:HA	1:B:1508:ARG:HB2	1.99	0.45
1:B:1792:ALA:HA	1:B:2173:GLN:HG2	1.98	0.45
1:B:1860:LYS:O	1:B:1864:LYS:HG2	2.16	0.45
1:B:1965:TYR:CE2	1:B:1969:LEU:HD11	2.51	0.45
1:B:2539:ALA:N	1:B:2593:ARG:HH21	2.14	0.45
1:B:2566:ALA:HB1	1:B:2613:TYR:HD2	1.81	0.45
1:B:3157:ILE:HG22	1:B:3162:GLN:HG3	1.99	0.45
1:B:4580:TYR:CE2	1:B:4630:TYR:HB3	2.52	0.45
1:B:4680:LYS:O	1:B:4685:GLY:N	2.47	0.45
1:D:261:ARG:NH1	1:D:263:GLU:OE2	2.49	0.45
1:D:1229:ASN:O	1:D:1827:ARG:HB2	2.17	0.45
1:D:1847:THR:O	1:D:1851:MET:HG3	2.16	0.45
1:D:2575:ARG:O	1:D:2579:VAL:HG23	2.16	0.45
1:D:2715:VAL:HG22	1:D:2954:ARG:HA	1.98	0.45
1:D:3283:ARG:NH1	1:D:3287:ARG:NH2	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4241:THR:C	1:D:4245:MET:SD	2.94	0.45
1:D:4731:ILE:HG23	1:D:4732:PHE:N	2.32	0.45
1:D:4778:TRP:O	1:D:4782:VAL:HG23	2.17	0.45
1:C:231:LEU:HD13	1:C:247:TYR:HE1	1.81	0.45
1:C:1984:PHE:HB2	1:C:1991:THR:HG21	1.98	0.45
1:C:2325:PRO:O	1:C:2329:GLU:OE1	2.33	0.45
1:C:2880:GLU:HA	1:C:2883:HIS:HE1	1.77	0.45
1:C:4096:ALA:O	1:C:4100:GLN:HG2	2.16	0.45
1:C:5034:ASP:N	1:C:5034:ASP:OD2	2.49	0.45
1:A:261:ARG:NH1	1:A:263:GLU:OE2	2.49	0.45
1:A:745:SER:OG	1:A:758:ARG:HB2	2.17	0.45
1:A:1069:TRP:CZ3	1:A:1112:ASP:CB	3.00	0.45
1:A:1229:ASN:O	1:A:1827:ARG:HB2	2.17	0.45
1:A:1792:ALA:HA	1:A:2173:GLN:HG2	1.98	0.45
1:A:2579:VAL:O	1:A:2583:LEU:HG	2.17	0.45
1:A:2972:GLU:OE2	1:A:2991:HIS:NE2	2.49	0.45
1:A:3725:TYR:HA	1:A:3728:ILE:HD12	1.99	0.45
1:A:3842:LEU:HG	1:A:3875:MET:SD	2.57	0.45
2:G:1:GLY:N	2:G:80:TYR:CE2	2.84	0.45
2:G:94:HIS:ND1	2:G:94:HIS:N	2.64	0.45
2:F:1:GLY:N	2:F:80:TYR:CE2	2.84	0.45
1:B:59:PRO:HB2	1:B:290:TYR:CZ	2.51	0.45
1:B:899:ASP:O	1:B:902:ARG:NH2	2.44	0.45
1:B:925:SER:O	1:B:929:LEU:HG	2.16	0.45
1:B:1259:ARG:NH2	1:B:1591:CYS:SG	2.89	0.45
1:D:829:TYR:O	1:D:840:VAL:N	2.42	0.45
1:D:2110:TYR:O	1:D:2112:GLN:NE2	2.39	0.45
1:D:2206:THR:O	1:D:2210:VAL:HG23	2.17	0.45
1:D:2696:TYR:O	1:D:2700:MET:SD	2.74	0.45
1:D:2758:PHE:CD1	1:D:2929:PHE:CD2	3.04	0.45
1:D:3096:PHE:CD2	1:D:3161:VAL:HG12	2.52	0.45
1:D:3148:ALA:O	1:D:3151:GLN:NE2	2.49	0.45
1:D:3346:VAL:HG11	1:D:3414:ARG:HB2	1.98	0.45
1:D:3401:LEU:O	1:D:3405:LEU:HG	2.16	0.45
1:D:3562:LYS:HZ2	1:D:3565:GLY:N	2.15	0.45
1:D:4060:LYS:HG3	1:D:4064:MET:SD	2.56	0.45
1:C:360:ALA:O	1:C:361:ALA:CB	2.64	0.45
1:C:581:ASN:OD1	1:C:582:HIS:N	2.49	0.45
1:C:1259:ARG:NH2	1:C:1591:CYS:SG	2.89	0.45
1:C:2377:LEU:HD13	1:C:2469:ILE:HG13	1.96	0.45
1:C:2575:ARG:O	1:C:2579:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2979:ALA:O	1:C:2982:SER:OG	2.22	0.45
1:C:3617:LYS:HG3	1:C:3618:ALA:N	2.31	0.45
1:C:3833:GLN:O	1:C:3837:GLN:OE1	2.34	0.45
1:A:149:THR:HG23	1:A:174:VAL:HG22	1.98	0.45
1:A:1762:LEU:HD12	1:A:1863:LEU:HD13	1.97	0.45
1:A:3277:LEU:HD21	1:A:3281:LEU:HD11	1.98	0.45
1:A:3375:GLU:O	1:A:3379:LEU:HG	2.15	0.45
2:H:55:VAL:CG1	2:H:59:TRP:HB2	2.46	0.45
2:H:94:HIS:ND1	2:H:94:HIS:N	2.64	0.45
2:G:25:HIS:CB	2:G:102:GLU:OE2	2.63	0.45
2:G:57:ARG:O	2:G:58:GLY:C	2.54	0.45
2:F:49:MET:CG	2:F:52:LYS:HZ1	2.29	0.45
1:B:476:SER:O	1:B:480:GLU:HG2	2.15	0.45
1:B:1229:ASN:O	1:B:1827:ARG:HB2	2.17	0.45
1:B:1280:GLN:O	1:B:1281:ASN:OD1	2.35	0.45
1:B:1842:LEU:HD13	1:B:1938:GLN:HB2	1.97	0.45
1:B:1984:PHE:HB2	1:B:1991:THR:HG21	1.98	0.45
1:B:2333:ASP:OD1	1:B:2334:PHE:N	2.50	0.45
1:B:2758:PHE:CD1	1:B:2929:PHE:CD2	3.04	0.45
1:B:3062:PRO:HA	1:B:3065:VAL:HG12	1.99	0.45
1:B:3108:GLU:O	1:B:3111:ARG:HB2	2.16	0.45
1:B:3346:VAL:HG11	1:B:3414:ARG:HB2	1.97	0.45
1:B:3365:LEU:HD12	1:B:3408:LEU:HD21	1.98	0.45
1:B:3969:ILE:HD11	1:B:4029:SER:HB2	1.99	0.45
1:B:4903:ASP:OD2	1:B:4905:ALA:HB2	2.16	0.45
1:B:5036:LEU:O	1:B:5037:SER:CB	2.64	0.45
1:D:281:ARG:NH2	1:D:309:THR:OG1	2.49	0.45
1:D:1431:THR:HG21	1:D:1523:ALA:H	1.82	0.45
1:D:2012:PHE:HD2	1:D:2021:CYS:HG	1.61	0.45
1:D:2211:MET:CE	1:D:2232:CYS:HB2	2.47	0.45
1:D:3106:MET:HE3	1:D:3128:ASN:ND2	2.32	0.45
1:D:3157:ILE:HG22	1:D:3162:GLN:HG3	1.99	0.45
1:C:745:SER:OG	1:C:758:ARG:HB2	2.17	0.45
1:C:1230:MET:CE	1:C:1234:VAL:HG22	2.46	0.45
1:C:1505:GLN:HA	1:C:1508:ARG:HB2	1.99	0.45
1:C:3277:LEU:HD21	1:C:3281:LEU:HD11	1.98	0.45
1:C:3955:MET:HE2	1:C:4015:GLU:HG2	1.97	0.45
1:C:4731:ILE:HG23	1:C:4732:PHE:N	2.32	0.45
1:C:4903:ASP:OD2	1:C:4905:ALA:HB2	2.16	0.45
1:A:182:LEU:HD12	1:A:190:GLN:O	2.17	0.45
1:A:939:VAL:HG23	1:A:1053:ILE:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1280:GLN:O	1:A:1281:ASN:OD1	2.35	0.45
1:A:1431:THR:HG21	1:A:1523:ALA:H	1.82	0.45
1:A:1505:GLN:HA	1:A:1508:ARG:HB2	1.99	0.45
1:A:3108:GLU:O	1:A:3111:ARG:HB2	2.16	0.45
1:A:5032:TYR:O	1:A:5036:LEU:N	2.37	0.45
1:B:3016:TYR:CZ	1:B:3031:ALA:HA	2.52	0.45
1:B:3096:PHE:CD2	1:B:3161:VAL:HG12	2.52	0.45
1:B:3725:TYR:HA	1:B:3728:ILE:HD12	1.99	0.45
1:B:3842:LEU:HG	1:B:3875:MET:SD	2.57	0.45
1:B:4157:ASP:H	1:B:4161:ARG:NH1	2.09	0.45
1:D:708:GLY:N	1:D:713:SER:OG	2.43	0.45
1:D:1236:THR:OG1	1:D:1608:MET:SD	2.54	0.45
1:D:1860:LYS:O	1:D:1864:LYS:HG2	2.16	0.45
1:D:2333:ASP:OD1	1:D:2334:PHE:N	2.50	0.45
1:D:2816:MET:HE1	1:D:2823:ILE:HB	1.99	0.45
1:C:472:ARG:NE	1:C:532:GLY:O	2.48	0.45
1:C:1079:LYS:HA	1:C:1189:LEU:HD11	1.99	0.45
1:C:1116:GLY:O	1:C:1134:LEU:N	2.50	0.45
1:C:2823:ILE:O	1:C:2823:ILE:HG23	2.16	0.45
1:C:3941:ASP:N	1:C:3941:ASP:OD1	2.49	0.45
1:A:1116:GLY:O	1:A:1134:LEU:N	2.50	0.45
1:A:2129:ASP:O	1:A:2133:GLU:OE1	2.35	0.45
1:A:3696:ASP:O	1:A:3700:GLN:HG3	2.17	0.45
1:A:4640:GLU:HB2	1:A:4641:PRO:HD3	1.99	0.45
2:E:25:HIS:CB	2:E:102:GLU:OE2	2.63	0.45
2:H:57:ARG:O	2:H:58:GLY:C	2.54	0.45
2:F:94:HIS:ND1	2:F:94:HIS:N	2.64	0.45
1:B:689:THR:HG21	1:B:776:LEU:HB2	1.98	0.45
1:B:1027:LEU:HD21	1:B:1031:THR:HG22	1.98	0.45
1:B:1230:MET:CE	1:B:1234:VAL:HG22	2.46	0.45
1:B:1762:LEU:HD12	1:B:1863:LEU:HD13	1.97	0.45
1:B:1835:GLU:O	1:B:1839:VAL:HG23	2.17	0.45
1:B:2452:ARG:NH1	1:C:144:GLU:OE2	2.50	0.45
1:B:3524:MET:HG2	1:B:3595:ARG:CD	2.46	0.45
1:B:5034:ASP:OD2	1:B:5034:ASP:N	2.49	0.45
1:D:472:ARG:NE	1:D:532:GLY:O	2.48	0.45
1:D:1116:GLY:O	1:D:1134:LEU:N	2.50	0.45
1:D:1505:GLN:HA	1:D:1508:ARG:HB2	1.99	0.45
1:D:1573:MET:HE3	1:D:1577:ALA:CB	2.47	0.45
1:D:1792:ALA:HA	1:D:2173:GLN:HG2	1.98	0.45
1:D:2674:LEU:HD23	1:D:2677:LYS:CE	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3696:ASP:O	1:D:3700:GLN:HG3	2.17	0.45
1:D:4580:TYR:CE2	1:D:4630:TYR:HB3	2.52	0.45
1:C:2579:VAL:O	1:C:2583:LEU:HG	2.17	0.45
1:C:2674:LEU:HD23	1:C:2677:LYS:CE	2.47	0.45
1:C:2676:ARG:O	1:C:2679:PHE:HB3	2.17	0.45
1:C:4124:ASN:OD1	1:C:4127:GLU:HG3	2.17	0.45
1:C:4720:VAL:HA	1:C:4723:LYS:HE2	1.97	0.45
1:C:4797:VAL:O	1:C:4801:LEU:HD23	2.17	0.45
1:A:221:ARG:HH12	1:A:254:THR:HA	1.81	0.45
1:A:322:LYS:NZ	1:A:354:GLY:O	2.46	0.45
1:A:360:ALA:O	1:A:361:ALA:CB	2.64	0.45
1:A:682:LEU:HD13	1:A:787:VAL:HG21	1.98	0.45
1:A:894:GLY:HA3	1:A:903:LEU:HB3	1.98	0.45
1:A:2668:SER:O	1:A:2669:GLU:CG	2.59	0.45
1:A:3401:LEU:O	1:A:3405:LEU:HG	2.16	0.45
1:A:3734:HIS:C	1:A:3735:LEU:HD23	2.36	0.45
1:A:3943:ILE:O	1:A:3948:LYS:NZ	2.31	0.45
1:A:3992:PHE:HB3	1:A:3996:PHE:CE2	2.52	0.45
1:A:4731:ILE:HG23	1:A:4732:PHE:N	2.32	0.45
2:E:16:PRO:HG2	2:E:63:VAL:HG12	1.98	0.45
1:B:745:SER:OG	1:B:758:ARG:HB2	2.17	0.45
1:B:2014:ASP:O	1:B:2015:GLU:HB3	2.17	0.45
1:B:2676:ARG:O	1:B:2679:PHE:HB3	2.17	0.45
1:B:4640:GLU:HB2	1:B:4641:PRO:HD3	1.99	0.45
1:D:224:HIS:CD2	1:D:247:TYR:CE2	3.05	0.45
1:D:730:VAL:HA	1:D:1476:MET:HE1	1.99	0.45
1:D:3016:TYR:CZ	1:D:3031:ALA:HA	2.52	0.45
1:D:3145:GLN:OE1	1:D:3145:GLN:HA	2.16	0.45
1:C:280:LEU:HD12	1:C:281:ARG:H	1.82	0.45
1:C:732:SER:O	1:C:735:GLN:HG3	2.17	0.45
1:C:871:ARG:NH1	1:C:922:LEU:HD12	2.32	0.45
1:C:1792:ALA:HA	1:C:2173:GLN:HG2	1.98	0.45
1:C:1835:GLU:O	1:C:1839:VAL:HG23	2.17	0.45
1:C:2211:MET:CE	1:C:2232:CYS:HB2	2.47	0.45
1:C:3062:PRO:HA	1:C:3065:VAL:HG12	1.99	0.45
1:C:3571:TRP:HE3	1:C:3575:LEU:HD23	1.81	0.45
1:C:3802:ILE:HD12	1:C:3886:ARG:CG	2.47	0.45
1:C:3992:PHE:HB3	1:C:3996:PHE:CE2	2.52	0.45
1:C:4580:TYR:CE2	1:C:4630:TYR:HB3	2.52	0.45
1:A:59:PRO:HB2	1:A:290:TYR:CZ	2.51	0.45
1:A:871:ARG:NH1	1:A:922:LEU:HD12	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3145:GLN:OE1	1:A:3145:GLN:HA	2.16	0.45
1:A:3337:ARG:HA	1:A:3340:VAL:HG22	1.98	0.45
1:A:3647:HIS:O	1:A:3651:ASN:ND2	2.50	0.45
1:A:3802:ILE:HD12	1:A:3886:ARG:CG	2.47	0.45
1:A:4797:VAL:O	1:A:4801:LEU:HD23	2.17	0.45
1:A:4901:ILE:HG13	1:A:4913:ARG:NH2	2.32	0.45
2:E:94:HIS:ND1	2:E:94:HIS:N	2.64	0.45
2:G:49:MET:HG3	2:G:52:LYS:HZ3	1.81	0.45
2:F:2:VAL:HG22	2:F:58:GLY:HA2	1.99	0.45
2:F:16:PRO:HG2	2:F:63:VAL:HG12	1.98	0.45
2:F:49:MET:HB3	2:F:52:LYS:HE2	1.98	0.45
1:B:321:GLU:OE2	1:B:323:LEU:HD22	2.17	0.45
1:B:732:SER:O	1:B:735:GLN:HG3	2.17	0.45
1:B:3262:ARG:O	1:B:3266:MET:SD	2.75	0.45
1:B:3802:ILE:HD12	1:B:3886:ARG:CG	2.47	0.45
1:B:4720:VAL:HA	1:B:4723:LYS:HE2	1.97	0.45
1:D:221:ARG:HH12	1:D:254:THR:HA	1.81	0.45
1:D:745:SER:OG	1:D:758:ARG:HB2	2.17	0.45
1:D:768:PHE:CE1	1:D:1474:VAL:HG22	2.52	0.45
1:D:1027:LEU:HD21	1:D:1031:THR:HG22	1.98	0.45
1:D:1069:TRP:CZ3	1:D:1112:ASP:CB	3.00	0.45
1:D:1280:GLN:O	1:D:1281:ASN:OD1	2.35	0.45
1:D:2376:LEU:O	1:D:2380:ILE:HG12	2.17	0.45
1:D:3388:GLU:OE1	1:D:3388:GLU:N	2.46	0.45
1:D:3568:SER:HA	1:D:3571:TRP:CD1	2.53	0.45
1:D:3833:GLN:O	1:D:3837:GLN:OE1	2.34	0.45
1:D:3842:LEU:HG	1:D:3875:MET:SD	2.57	0.45
1:C:213:TYR:CD1	1:C:337:PRO:HB2	2.52	0.45
1:C:322:LYS:HG3	1:C:322:LYS:O	2.16	0.45
1:C:1069:TRP:CZ3	1:C:1112:ASP:CB	3.00	0.45
1:C:2128:TYR:HB2	1:C:3673:MET:CE	2.47	0.45
1:C:3016:TYR:CZ	1:C:3031:ALA:HA	2.52	0.45
1:C:3337:ARG:HA	1:C:3340:VAL:HG22	1.98	0.45
1:C:3696:ASP:O	1:C:3700:GLN:HG3	2.17	0.45
1:C:4901:ILE:HG13	1:C:4913:ARG:NH2	2.32	0.45
1:A:1079:LYS:HA	1:A:1189:LEU:HD11	1.99	0.44
1:A:1931:LEU:HD12	1:A:1939:MET:CE	2.46	0.44
1:A:1984:PHE:HB2	1:A:1991:THR:HG21	1.98	0.44
1:A:2161:GLN:O	1:A:2165:LEU:HD13	2.18	0.44
1:A:2354:VAL:O	1:A:2358:ILE:HG23	2.17	0.44
1:A:2676:ARG:O	1:A:2679:PHE:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2930:LEU:O	1:A:2935:TYR:N	2.47	0.44
1:A:4573:ILE:HG23	1:A:4643:LEU:HD11	1.99	0.44
2:F:55:VAL:HG12	2:F:59:TRP:HB2	1.99	0.44
1:B:213:TYR:CD1	1:B:337:PRO:HB2	2.52	0.44
1:B:224:HIS:CD2	1:B:247:TYR:CE2	3.05	0.44
1:B:1079:LYS:HA	1:B:1189:LEU:HD11	1.99	0.44
1:B:2326:CYS:SG	1:B:2327:GLY:N	2.90	0.44
1:B:2354:VAL:O	1:B:2358:ILE:HG23	2.17	0.44
1:B:3111:ARG:HH22	1:B:3175:LEU:HD12	1.82	0.44
1:B:4573:ILE:HG23	1:B:4643:LEU:HD11	1.99	0.44
1:B:4944:ARG:NE	1:C:4938:ASP:OD2	2.45	0.44
1:D:1286:MET:HB3	1:D:1288:PHE:CE1	2.51	0.44
1:D:2354:VAL:O	1:D:2358:ILE:HG23	2.17	0.44
1:D:2579:VAL:O	1:D:2583:LEU:HG	2.17	0.44
1:D:2676:ARG:O	1:D:2679:PHE:HB3	2.17	0.44
1:D:2888:ARG:O	1:D:2892:GLN:HG2	2.16	0.44
1:D:3262:ARG:O	1:D:3266:MET:SD	2.75	0.44
1:C:182:LEU:HD12	1:C:190:GLN:O	2.17	0.44
1:C:574:VAL:HA	1:C:577:ILE:HG12	1.98	0.44
1:C:1229:ASN:O	1:C:1827:ARG:HB2	2.17	0.44
1:C:1453:VAL:HG22	1:C:1551:ALA:HB2	1.97	0.44
1:C:2376:LEU:O	1:C:2380:ILE:HG12	2.17	0.44
1:C:4778:TRP:O	1:C:4782:VAL:HG23	2.17	0.44
1:A:36:CYS:SG	1:A:65:CYS:HB3	2.58	0.44
1:A:985:VAL:HG11	1:A:1040:CYS:SG	2.56	0.44
1:A:2333:ASP:OD1	1:A:2334:PHE:N	2.50	0.44
1:A:2988:LYS:HZ1	1:A:2990:PRO:HG3	1.82	0.44
1:A:3016:TYR:CZ	1:A:3031:ALA:HA	2.52	0.44
1:A:3111:ARG:HH22	1:A:3175:LEU:HD12	1.81	0.44
1:A:3524:MET:HG2	1:A:3595:ARG:CD	2.46	0.44
1:A:4218:ILE:O	1:A:4222:VAL:HG23	2.17	0.44
1:B:701:GLY:N	1:B:1645:ASN:O	2.37	0.44
1:B:2128:TYR:HB2	1:B:3673:MET:CE	2.48	0.44
1:B:2211:MET:CE	1:B:2232:CYS:HB2	2.47	0.44
1:B:2549:ALA:CA	1:B:2552:ARG:NH1	2.81	0.44
1:B:3277:LEU:HD21	1:B:3281:LEU:HD11	1.98	0.44
1:B:3992:PHE:HB3	1:B:3996:PHE:CE2	2.52	0.44
1:D:182:LEU:HD12	1:D:190:GLN:O	2.17	0.44
1:D:321:GLU:OE2	1:D:323:LEU:HD22	2.17	0.44
1:D:1476:MET:O	1:D:1484:HIS:N	2.51	0.44
1:D:2128:TYR:HB2	1:D:3673:MET:CE	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2161:GLN:O	1:D:2165:LEU:HD13	2.17	0.44
1:D:3225:ARG:NE	1:D:3226:GLU:OE1	2.51	0.44
1:C:2182:ILE:CD1	1:C:2231:SER:HB2	2.48	0.44
1:C:2255:SER:O	1:C:2258:LEU:N	2.48	0.44
1:C:2354:VAL:O	1:C:2358:ILE:HG23	2.17	0.44
1:C:2575:ARG:NH1	1:C:2578:MET:HE1	2.32	0.44
1:A:46:LEU:HD23	1:A:47:CYS:O	2.17	0.44
1:A:213:TYR:CD1	1:A:337:PRO:HB2	2.52	0.44
1:A:224:HIS:CD2	1:A:247:TYR:CE2	3.05	0.44
1:A:280:LEU:HD12	1:A:281:ARG:H	1.82	0.44
1:A:744:VAL:HG22	1:A:759:ILE:HD13	1.99	0.44
1:A:3262:ARG:O	1:A:3266:MET:SD	2.75	0.44
1:A:3579:LEU:HD23	1:A:3581:GLY:N	2.32	0.44
1:A:3781:GLN:OE1	1:A:3819:TYR:CE2	2.70	0.44
1:A:3969:ILE:HD11	1:A:4029:SER:HB2	1.99	0.44
1:A:4093:PHE:O	1:A:4097:MET:HG2	2.18	0.44
1:B:871:ARG:NH1	1:B:922:LEU:HD12	2.32	0.44
1:B:2129:ASP:O	1:B:2133:GLU:OE1	2.35	0.44
1:B:3781:GLN:OE1	1:B:3819:TYR:CE2	2.70	0.44
1:B:4901:ILE:HG13	1:B:4913:ARG:NH2	2.32	0.44
1:D:861:ILE:HG23	1:D:861:ILE:O	2.16	0.44
1:D:1929:MET:O	1:D:1930:LYS:CB	2.66	0.44
1:D:2722:LYS:HB2	1:D:2724:GLU:OE1	2.17	0.44
1:D:3062:PRO:HA	1:D:3065:VAL:HG12	1.99	0.44
1:D:3524:MET:HG2	1:D:3595:ARG:CD	2.46	0.44
1:D:4218:ILE:O	1:D:4222:VAL:HG23	2.17	0.44
1:D:4573:ILE:HG23	1:D:4643:LEU:HD11	1.99	0.44
1:D:4745:LEU:C	1:D:4749:GLU:OE1	2.56	0.44
1:D:4870:ASP:OD1	1:D:4871:GLU:N	2.51	0.44
1:C:213:TYR:HA	1:C:339:ILE:O	2.18	0.44
1:C:689:THR:HG21	1:C:776:LEU:HB2	1.98	0.44
1:C:701:GLY:N	1:C:1645:ASN:O	2.37	0.44
1:C:2891:LYS:HA	1:C:2894:LEU:HB2	2.00	0.44
1:C:3283:ARG:HG2	1:C:3287:ARG:NH1	2.32	0.44
1:C:3579:LEU:HD23	1:C:3581:GLY:N	2.33	0.44
1:A:213:TYR:HA	1:A:339:ILE:O	2.17	0.44
1:A:293:LEU:HD13	1:A:378:LEU:HD13	1.99	0.44
1:A:891:TRP:HE3	1:A:904:HIS:HD1	1.65	0.44
1:A:1298:HIS:HE1	1:A:1431:THR:HG23	1.83	0.44
1:A:1497:GLY:O	1:A:1501:VAL:HG13	2.18	0.44
1:A:2206:THR:O	1:A:2210:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2326:CYS:SG	1:A:2327:GLY:N	2.90	0.44
1:A:2458:ARG:NH2	1:A:2509:VAL:O	2.51	0.44
1:A:3320:LEU:CD1	1:A:3353:LEU:HD21	2.48	0.44
1:A:4124:ASN:OD1	1:A:4127:GLU:HG3	2.17	0.44
2:E:2:VAL:HG22	2:E:58:GLY:HA2	1.99	0.44
2:E:55:VAL:HG12	2:E:59:TRP:HB2	1.99	0.44
2:F:57:ARG:NH1	2:F:80:TYR:CE1	2.86	0.44
1:B:293:LEU:HD13	1:B:378:LEU:HD13	1.99	0.44
1:B:2155:LEU:HD11	1:B:2185:ILE:HG23	2.00	0.44
1:B:4221:VAL:O	1:B:4225:GLY:N	2.51	0.44
1:B:4778:TRP:O	1:B:4782:VAL:HG23	2.17	0.44
1:B:4991:PHE:CE2	1:B:4995:LEU:HD11	2.52	0.44
1:D:149:THR:HG23	1:D:174:VAL:HG22	1.98	0.44
1:D:516:LYS:O	1:D:519:VAL:HG22	2.18	0.44
1:D:2326:CYS:SG	1:D:2327:GLY:N	2.90	0.44
1:D:3285:TRP:HE1	1:D:3309:SER:HG	1.66	0.44
1:D:3439:GLY:O	1:D:3443:ILE:HG12	2.18	0.44
1:D:3725:TYR:HA	1:D:3728:ILE:HD12	1.99	0.44
1:D:4797:VAL:O	1:D:4801:LEU:HD23	2.17	0.44
1:D:5032:TYR:O	1:D:5036:LEU:N	2.37	0.44
1:C:725:HIS:ND1	1:C:725:HIS:O	2.51	0.44
1:C:1280:GLN:O	1:C:1281:ASN:OD1	2.35	0.44
1:C:2326:CYS:SG	1:C:2327:GLY:N	2.90	0.44
1:C:2722:LYS:HB2	1:C:2724:GLU:OE1	2.17	0.44
1:C:3568:SER:HA	1:C:3571:TRP:CD1	2.53	0.44
1:C:4745:LEU:C	1:C:4749:GLU:OE1	2.56	0.44
1:C:4782:VAL:O	1:C:4785:THR:OG1	2.32	0.44
1:C:4820:VAL:HG12	1:C:4822:THR:N	2.33	0.44
1:A:829:TYR:O	1:A:840:VAL:N	2.42	0.44
1:A:1069:TRP:CE2	1:A:1602:PRO:CG	3.01	0.44
1:A:1815:LEU:O	1:A:1819:VAL:HG23	2.18	0.44
1:A:2128:TYR:HB2	1:A:3673:MET:CE	2.48	0.44
1:A:2673:HIS:ND1	1:A:2716:ASP:OD1	2.51	0.44
1:A:2674:LEU:HD23	1:A:2677:LYS:CE	2.47	0.44
1:A:3115:VAL:O	1:A:3116:SER:HB3	2.18	0.44
1:A:3227:ARG:HA	1:A:3230:LEU:HG	1.99	0.44
1:A:3354:LEU:CD1	1:A:3415:TYR:CE2	2.99	0.44
1:A:3365:LEU:HD12	1:A:3408:LEU:HD21	1.98	0.44
1:A:4991:PHE:CE2	1:A:4995:LEU:HD11	2.52	0.44
2:H:2:VAL:HG22	2:H:58:GLY:HA2	1.99	0.44
2:G:57:ARG:NH1	2:G:80:TYR:CE1	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1154:ASP:OD1	1:B:1156:THR:OG1	2.36	0.44
1:B:1922:LEU:O	1:B:1922:LEU:HG	2.18	0.44
1:B:1931:LEU:HD12	1:B:1939:MET:CE	2.46	0.44
1:B:2182:ILE:CD1	1:B:2231:SER:HB2	2.48	0.44
1:B:2206:THR:O	1:B:2210:VAL:HG23	2.17	0.44
1:B:2458:ARG:NH2	1:B:2509:VAL:O	2.51	0.44
1:B:2701:PRO:O	1:B:2704:CYS:N	2.51	0.44
1:B:3225:ARG:NE	1:B:3226:GLU:OE1	2.51	0.44
1:B:3579:LEU:HD23	1:B:3581:GLY:N	2.32	0.44
1:D:213:TYR:CD1	1:D:337:PRO:HB2	2.52	0.44
1:D:891:TRP:HE3	1:D:904:HIS:HD1	1.65	0.44
1:D:1298:HIS:HE1	1:D:1431:THR:HG23	1.83	0.44
1:D:1922:LEU:HG	1:D:1922:LEU:O	2.18	0.44
1:D:2458:ARG:NH2	1:D:2509:VAL:O	2.51	0.44
1:D:2672:LEU:HD22	1:D:2710:LEU:HD13	2.00	0.44
1:D:3320:LEU:CD1	1:D:3353:LEU:HD21	2.48	0.44
1:D:4673:ARG:O	1:D:4676:GLU:HG3	2.18	0.44
1:D:4783:ILE:O	1:D:4786:ASP:OD1	2.36	0.44
1:D:4834:GLY:O	1:D:4838:VAL:HG23	2.18	0.44
1:D:4901:ILE:HG13	1:D:4913:ARG:NH2	2.32	0.44
1:C:224:HIS:CD2	1:C:247:TYR:CE2	3.05	0.44
1:C:768:PHE:CE1	1:C:1474:VAL:HG22	2.52	0.44
1:C:1154:ASP:OD1	1:C:1156:THR:OG1	2.36	0.44
1:C:1476:MET:O	1:C:1484:HIS:N	2.51	0.44
1:C:1815:LEU:O	1:C:1819:VAL:HG23	2.18	0.44
1:C:1929:MET:O	1:C:1930:LYS:CB	2.66	0.44
1:C:2014:ASP:O	1:C:2015:GLU:HB3	2.17	0.44
1:C:2129:ASP:O	1:C:2133:GLU:OE1	2.35	0.44
1:C:2333:ASP:OD1	1:C:2334:PHE:N	2.50	0.44
1:C:2696:TYR:O	1:C:2700:MET:SD	2.74	0.44
1:C:3842:LEU:HG	1:C:3875:MET:SD	2.57	0.44
1:C:4573:ILE:HG23	1:C:4643:LEU:HD11	1.99	0.44
1:A:725:HIS:ND1	1:A:725:HIS:O	2.51	0.44
1:A:2182:ILE:CD1	1:A:2231:SER:HB2	2.48	0.44
1:A:3052:HIS:NE2	1:A:3128:ASN:CG	2.65	0.44
1:A:3568:SER:HA	1:A:3571:TRP:CD1	2.53	0.44
1:A:4778:TRP:O	1:A:4782:VAL:HG23	2.17	0.44
1:B:36:CYS:SG	1:B:65:CYS:HB3	2.58	0.44
1:B:182:LEU:HD12	1:B:190:GLN:O	2.17	0.44
1:B:1069:TRP:CE2	1:B:1602:PRO:CG	3.01	0.44
1:B:1298:HIS:HE1	1:B:1431:THR:HG23	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1497:GLY:O	1:B:1501:VAL:HG13	2.18	0.44
1:B:2369[A]:ARG:NH2	1:B:2372:GLY:O	2.45	0.44
1:B:2673:HIS:ND1	1:B:2716:ASP:OD1	2.51	0.44
1:B:2674:LEU:HD23	1:B:2677:LYS:CE	2.47	0.44
1:B:2816:MET:HE1	1:B:2823:ILE:HB	1.99	0.44
1:B:3283:ARG:HG2	1:B:3287:ARG:NH1	2.32	0.44
1:B:3567:PRO:HA	1:B:3570:ARG:HB3	2.00	0.44
1:B:3937:TYR:CD1	1:B:3940:LYS:HD2	2.53	0.44
1:D:732:SER:O	1:D:735:GLN:HG3	2.17	0.44
1:D:1069:TRP:CE2	1:D:1602:PRO:CG	3.01	0.44
1:D:2135:LEU:O	1:D:2139:PRO:HD3	2.18	0.44
1:D:2634:ASN:OD1	1:D:2637:ALA:N	2.51	0.44
1:D:3227:ARG:HA	1:D:3230:LEU:HG	1.99	0.44
1:D:3433:GLU:HG3	1:D:3437:MET:SD	2.58	0.44
1:D:4991:PHE:CE2	1:D:4995:LEU:HD11	2.52	0.44
1:C:870:ILE:HD11	1:C:1049:TYR:CD2	2.53	0.44
1:C:1027:LEU:HD21	1:C:1031:THR:HG22	1.98	0.44
1:C:1497:GLY:O	1:C:1501:VAL:HG13	2.17	0.44
1:C:3562:LYS:HZ2	1:C:3565:GLY:N	2.16	0.44
1:C:3567:PRO:HA	1:C:3570:ARG:HB3	1.99	0.44
1:C:3725:TYR:HA	1:C:3728:ILE:HD12	1.99	0.44
1:C:3937:TYR:CD1	1:C:3940:LYS:HD2	2.53	0.44
1:C:3969:ILE:HD11	1:C:4029:SER:HB2	1.99	0.44
1:C:4680:LYS:O	1:C:4685:GLY:N	2.47	0.44
1:A:1154:ASP:OD1	1:A:1156:THR:OG1	2.36	0.44
1:A:2014:ASP:O	1:A:2015:GLU:HB3	2.17	0.44
1:A:2155:LEU:HD11	1:A:2185:ILE:HG23	2.00	0.44
1:A:2166:LEU:CD1	1:A:2206:THR:HG23	2.44	0.44
1:A:2722:LYS:HB2	1:A:2724:GLU:OE1	2.17	0.44
1:A:3106:MET:HE2	1:A:3106:MET:N	2.32	0.44
1:A:3628:ARG:O	1:A:3631:ALA:N	2.42	0.44
1:A:4231:MET:CE	1:A:5022:PHE:CD1	3.01	0.44
1:A:4820:VAL:HG12	1:A:4822:THR:N	2.33	0.44
1:A:4943:LEU:O	1:A:4947:GLN:HG2	2.18	0.44
2:G:55:VAL:HG12	2:G:59:TRP:HB2	1.99	0.44
1:B:213:TYR:HA	1:B:339:ILE:O	2.18	0.44
1:B:280:LEU:HD12	1:B:281:ARG:H	1.82	0.44
1:B:682:LEU:HD13	1:B:787:VAL:HG21	1.98	0.44
1:B:725:HIS:O	1:B:725:HIS:ND1	2.51	0.44
1:B:950:LEU:HD21	1:B:1048:GLY:O	2.18	0.44
1:B:1116:GLY:O	1:B:1134:LEU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1431:THR:HG21	1:B:1523:ALA:H	1.82	0.44
1:B:1778:SER:HB3	1:B:1798:LEU:HB2	2.00	0.44
1:B:2376:LEU:O	1:B:2380:ILE:HG12	2.17	0.44
1:B:2469:ILE:HG21	1:B:2502:MET:HE3	1.99	0.44
1:B:2549:ALA:HA	1:B:2552:ARG:CZ	2.48	0.44
1:B:2930:LEU:O	1:B:2935:TYR:N	2.47	0.44
1:B:3439:GLY:O	1:B:3443:ILE:HG12	2.18	0.44
1:B:3941:ASP:OD1	1:B:3941:ASP:N	2.49	0.44
1:B:4231:MET:CE	1:B:5022:PHE:CD1	3.01	0.44
1:B:4581:LYS:HD2	1:B:4582:VAL:N	2.33	0.44
1:B:4870:ASP:OD1	1:B:4871:GLU:N	2.51	0.44
1:D:574:VAL:HA	1:D:577:ILE:HG12	1.98	0.44
1:D:725:HIS:ND1	1:D:725:HIS:O	2.51	0.44
1:D:870:ILE:HD11	1:D:1049:TYR:CD2	2.53	0.44
1:D:899:ASP:O	1:D:902:ARG:NH2	2.44	0.44
1:D:3781:GLN:OE1	1:D:3819:TYR:CE2	2.70	0.44
1:D:3802:ILE:HD12	1:D:3886:ARG:CG	2.47	0.44
1:D:3992:PHE:HB3	1:D:3996:PHE:CE2	2.52	0.44
1:D:4231:MET:CE	1:D:5022:PHE:CD1	3.01	0.44
1:D:4640:GLU:HB2	1:D:4641:PRO:HD3	1.99	0.44
1:C:46:LEU:HD23	1:C:47:CYS:O	2.17	0.44
1:C:516:LYS:O	1:C:519:VAL:HG22	2.18	0.44
1:C:1922:LEU:HG	1:C:1922:LEU:O	2.18	0.44
1:C:2889:LYS:HE3	1:C:2890:LYS:HZ2	1.83	0.44
1:C:4231:MET:CE	1:C:5022:PHE:CD1	3.01	0.44
1:C:4991:PHE:CE2	1:C:4995:LEU:HD11	2.52	0.44
1:A:1206:GLN:N	1:A:1227:ALA:HB3	2.33	0.44
1:A:1922:LEU:HG	1:A:1922:LEU:O	2.18	0.44
1:A:2701:PRO:O	1:A:2704:CYS:N	2.51	0.44
1:A:2859:PRO:HB3	1:A:2932:MET:CE	2.48	0.44
1:A:3062:PRO:HA	1:A:3065:VAL:HG12	1.99	0.44
1:A:3207:GLU:OE1	1:A:3280:TYR:OH	2.29	0.44
1:A:3225:ARG:NE	1:A:3226:GLU:OE1	2.51	0.44
1:A:3433:GLU:HG3	1:A:3437:MET:SD	2.58	0.44
1:A:3439:GLY:O	1:A:3443:ILE:HG12	2.18	0.44
2:H:55:VAL:HG12	2:H:59:TRP:HB2	1.99	0.44
1:B:4218:ILE:O	1:B:4222:VAL:HG23	2.17	0.44
1:B:4731:ILE:HG23	1:B:4732:PHE:N	2.32	0.44
1:B:4834:GLY:O	1:B:4838:VAL:HG23	2.18	0.44
1:B:4943:LEU:O	1:B:4947:GLN:HG2	2.18	0.44
1:D:701:GLY:N	1:D:1645:ASN:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2014:ASP:O	1:D:2015:GLU:HB3	2.17	0.44
1:D:2129:ASP:O	1:D:2133:GLU:OE1	2.35	0.44
1:D:2182:ILE:CD1	1:D:2231:SER:HB2	2.48	0.44
1:D:2447:LYS:HD2	1:D:2450:ALA:H	1.83	0.44
1:D:2673:HIS:ND1	1:D:2716:ASP:OD1	2.51	0.44
1:D:3579:LEU:HD23	1:D:3581:GLY:N	2.32	0.44
1:C:173:SER:OG	1:C:176:SER:OG	1.88	0.44
1:C:403:MET:HE1	1:C:451:TYR:CD2	2.53	0.44
1:C:744:VAL:HG22	1:C:759:ILE:HD13	1.99	0.44
1:C:2549:ALA:CA	1:C:2552:ARG:NH1	2.81	0.44
1:C:4024:VAL:HG11	1:C:4142:ASN:HB3	2.00	0.44
1:C:4581:LYS:HD2	1:C:4582:VAL:N	2.33	0.44
1:C:4834:GLY:O	1:C:4838:VAL:HG23	2.18	0.44
1:A:1027:LEU:HD21	1:A:1031:THR:HG22	1.98	0.44
1:A:1286:MET:CE	1:A:1555:LEU:HD12	2.46	0.44
1:A:1835:GLU:O	1:A:1839:VAL:HG23	2.17	0.44
1:A:2858:GLN:N	1:A:2859:PRO:CD	2.81	0.44
1:A:3135:ALA:O	1:A:3139:VAL:HG13	2.18	0.44
1:A:3199:ALA:O	1:A:3283:ARG:HD2	2.18	0.44
1:A:3329:ILE:O	1:A:3403:ARG:NH2	2.51	0.44
1:A:4747:SER:HA	1:A:4750:ILE:HG12	2.00	0.44
1:B:516:LYS:O	1:B:519:VAL:HG22	2.18	0.44
1:B:950:LEU:HD13	1:B:970:LEU:CD2	2.48	0.44
1:B:2170:MET:CE	1:B:2175:GLU:HB2	2.48	0.44
1:B:3320:LEU:CD1	1:B:3353:LEU:HD21	2.48	0.44
1:B:4185:GLY:CA	1:B:4191:GLU:OE1	2.66	0.44
1:B:4747:SER:HA	1:B:4750:ILE:HG12	2.00	0.44
1:D:280:LEU:HD12	1:D:281:ARG:H	1.82	0.44
1:D:871:ARG:NH1	1:D:922:LEU:HD12	2.32	0.44
1:D:1087:ARG:HB3	1:D:1223:PHE:CD1	2.53	0.44
1:D:1815:LEU:O	1:D:1819:VAL:HG23	2.18	0.44
1:D:2747:ILE:HG21	1:D:2814:LYS:CG	2.44	0.44
1:D:2859:PRO:HB3	1:D:2932:MET:CE	2.48	0.44
1:D:3112:LEU:O	1:D:3112:LEU:HG	2.18	0.44
1:D:3306:ALA:O	1:D:3308:THR:HG23	2.18	0.44
1:D:3937:TYR:CD1	1:D:3940:LYS:HD2	2.53	0.44
1:C:1431:THR:HG21	1:C:1523:ALA:H	1.82	0.44
1:C:3135:ALA:O	1:C:3139:VAL:HG13	2.18	0.44
1:C:3227:ARG:HA	1:C:3230:LEU:HG	1.99	0.44
1:C:3262:ARG:O	1:C:3266:MET:SD	2.75	0.44
1:C:3781:GLN:OE1	1:C:3819:TYR:CE2	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4093:PHE:O	1:C:4097:MET:HG2	2.18	0.44
1:C:4218:ILE:O	1:C:4222:VAL:HG23	2.17	0.44
1:C:4870:ASP:OD1	1:C:4871:GLU:N	2.51	0.44
1:A:28:VAL:O	1:A:29:LEU:HD23	2.18	0.43
1:A:403:MET:HE1	1:A:451:TYR:CD2	2.53	0.43
1:A:768:PHE:CE1	1:A:1474:VAL:HG22	2.52	0.43
1:A:1929:MET:O	1:A:1930:LYS:CB	2.66	0.43
1:A:2170:MET:CE	1:A:2175:GLU:HB2	2.48	0.43
1:A:2634:ASN:OD1	1:A:2637:ALA:N	2.51	0.43
1:A:3106:MET:HE3	1:A:3128:ASN:ND2	2.32	0.43
1:A:4089:SER:N	1:A:4122:MET:HE1	2.33	0.43
1:A:4221:VAL:O	1:A:4225:GLY:N	2.51	0.43
1:A:4783:ILE:O	1:A:4786:ASP:OD1	2.36	0.43
1:B:46:LEU:HD23	1:B:47:CYS:O	2.17	0.43
1:B:1579:MET:HE2	1:B:1580:PHE:CD1	2.53	0.43
1:B:2447:LYS:HD2	1:B:2450:ALA:H	1.83	0.43
1:B:2634:ASN:OD1	1:B:2637:ALA:N	2.51	0.43
1:B:2775:TRP:CH2	1:B:2786:LYS:HE2	2.53	0.43
1:B:2907:PRO:O	1:B:2910:THR:OG1	2.30	0.43
1:B:3386:GLU:O	1:B:3389:GLU:HB3	2.18	0.43
1:B:3568:SER:HA	1:B:3571:TRP:CD1	2.53	0.43
1:B:3696:ASP:O	1:B:3700:GLN:HG3	2.17	0.43
1:B:4067:LYS:O	1:B:4070:ASP:OD1	2.36	0.43
1:D:213:TYR:HA	1:D:339:ILE:O	2.18	0.43
1:D:1154:ASP:OD1	1:D:1156:THR:OG1	2.36	0.43
1:D:1835:GLU:O	1:D:1839:VAL:HG23	2.17	0.43
1:D:2549:ALA:HA	1:D:2552:ARG:CZ	2.48	0.43
1:D:2775:TRP:CH2	1:D:2786:LYS:HE2	2.53	0.43
1:D:3111:ARG:HH22	1:D:3175:LEU:HD12	1.82	0.43
1:D:3567:PRO:HA	1:D:3570:ARG:HB3	2.00	0.43
1:D:4093:PHE:O	1:D:4097:MET:HG2	2.18	0.43
1:C:950:LEU:HD13	1:C:970:LEU:CD2	2.48	0.43
1:C:1069:TRP:CE2	1:C:1602:PRO:CG	3.01	0.43
1:C:1206:GLN:N	1:C:1227:ALA:HB3	2.33	0.43
1:C:1698:LEU:C	1:C:1814:MET:HE1	2.39	0.43
1:C:2161:GLN:O	1:C:2165:LEU:HD13	2.17	0.43
1:C:2170:MET:CE	1:C:2175:GLU:HB2	2.48	0.43
1:C:2206:THR:O	1:C:2210:VAL:HG23	2.17	0.43
1:C:2549:ALA:HA	1:C:2552:ARG:CZ	2.48	0.43
1:C:3112:LEU:HG	1:C:3112:LEU:O	2.18	0.43
1:C:3225:ARG:NE	1:C:3226:GLU:OE1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:421:PHE:CE2	1:A:507:ALA:HA	2.53	0.43
1:A:2549:ALA:HA	1:A:2552:ARG:CZ	2.48	0.43
1:A:3285:TRP:HE1	1:A:3309:SER:HG	1.66	0.43
1:A:4067:LYS:O	1:A:4070:ASP:OD1	2.36	0.43
1:A:4870:ASP:OD1	1:A:4871:GLU:N	2.51	0.43
2:G:2:VAL:HG22	2:G:58:GLY:HA2	1.99	0.43
2:G:49:MET:HB3	2:G:52:LYS:HE2	1.98	0.43
1:B:2135:LEU:O	1:B:2139:PRO:HD3	2.18	0.43
1:B:2167:ILE:HG13	1:B:2168:VAL:N	2.33	0.43
1:B:2858:GLN:N	1:B:2859:PRO:CD	2.81	0.43
1:B:2891:LYS:HA	1:B:2894:LEU:HB2	2.00	0.43
1:B:3354:LEU:CD1	1:B:3415:TYR:CE2	2.99	0.43
1:B:4124:ASN:OD1	1:B:4127:GLU:HG3	2.17	0.43
1:D:744:VAL:HG22	1:D:759:ILE:HD13	1.99	0.43
1:D:1497:GLY:O	1:D:1501:VAL:HG13	2.17	0.43
1:D:2549:ALA:CA	1:D:2552:ARG:NH1	2.81	0.43
1:D:2891:LYS:HA	1:D:2894:LEU:HB2	2.00	0.43
1:D:3106:MET:HE2	1:D:3106:MET:N	2.32	0.43
1:D:4045:VAL:O	1:D:4049:VAL:HG23	2.18	0.43
1:D:4124:ASN:OD1	1:D:4127:GLU:HG3	2.17	0.43
1:C:633:LEU:HD13	1:C:1639:LEU:HD11	2.00	0.43
1:C:908:VAL:HG23	1:C:909:ASN:N	2.33	0.43
1:C:1778:SER:HB3	1:C:1798:LEU:HB2	2.00	0.43
1:C:2458:ARG:NH2	1:C:2509:VAL:O	2.51	0.43
1:C:2673:HIS:ND1	1:C:2716:ASP:OD1	2.51	0.43
1:C:2761:TYR:HD2	1:C:2859:PRO:HD3	1.83	0.43
1:C:2894:LEU:O	1:C:2898:GLY:N	2.36	0.43
1:C:3106:MET:HE1	1:C:3128:ASN:HD22	1.84	0.43
1:C:3115:VAL:O	1:C:3116:SER:HB3	2.18	0.43
1:C:3249:LEU:HD21	1:C:3273:THR:HG22	2.01	0.43
1:C:3439:GLY:O	1:C:3443:ILE:HG12	2.18	0.43
1:A:155:LYS:HE2	1:D:228:ASP:OD2	2.19	0.43
1:A:2892:GLN:HA	1:A:2895:GLU:OE1	2.18	0.43
1:A:3660:ALA:HB3	1:A:3661:TRP:HD1	1.84	0.43
1:A:3937:TYR:CD1	1:A:3940:LYS:HD2	2.53	0.43
1:A:4551:PHE:CE2	1:A:4555:LEU:HD11	2.54	0.43
1:A:4581:LYS:HD2	1:A:4582:VAL:N	2.33	0.43
2:F:79:ASP:OD1	2:F:80:TYR:CD2	2.72	0.43
1:B:231:LEU:HD13	1:B:247:TYR:HE1	1.81	0.43
1:B:1469:VAL:HG22	1:B:1492:CYS:SG	2.59	0.43
1:B:2722:LYS:HB2	1:B:2724:GLU:OE1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2761:TYR:HD2	1:B:2859:PRO:HD3	1.83	0.43
1:B:3112:LEU:HG	1:B:3112:LEU:O	2.18	0.43
1:B:3135:ALA:O	1:B:3139:VAL:HG13	2.18	0.43
1:B:4551:PHE:CE2	1:B:4555:LEU:HD11	2.54	0.43
1:D:909:ASN:HB3	1:D:912:SER:HB2	2.00	0.43
1:D:950:LEU:HD13	1:D:970:LEU:CD2	2.48	0.43
1:D:1469:VAL:HG22	1:D:1492:CYS:SG	2.58	0.43
1:D:2858:GLN:N	1:D:2859:PRO:CD	2.81	0.43
1:D:3115:VAL:O	1:D:3116:SER:HB3	2.18	0.43
1:D:3135:ALA:O	1:D:3139:VAL:HG13	2.18	0.43
1:D:3152:PHE:O	1:D:3156:VAL:HG23	2.19	0.43
1:D:3628:ARG:HB3	1:D:3631:ALA:HB3	2.00	0.43
1:D:3980:LEU:O	1:D:3983:SER:OG	2.18	0.43
1:C:1469:VAL:HG22	1:C:1492:CYS:SG	2.58	0.43
1:C:2672:LEU:HD22	1:C:2710:LEU:HD13	2.00	0.43
1:C:3306:ALA:O	1:C:3308:THR:HG23	2.18	0.43
1:C:4185:GLY:CA	1:C:4191:GLU:OE1	2.66	0.43
1:C:4673:ARG:O	1:C:4676:GLU:HG3	2.18	0.43
1:C:4783:ILE:O	1:C:4786:ASP:OD1	2.36	0.43
1:A:870:ILE:HD11	1:A:1049:TYR:CD2	2.53	0.43
1:A:908:VAL:HG23	1:A:909:ASN:N	2.33	0.43
1:A:1469:VAL:HG22	1:A:1492:CYS:SG	2.59	0.43
1:A:1476:MET:O	1:A:1484:HIS:N	2.51	0.43
1:A:1778:SER:HB3	1:A:1798:LEU:HB2	2.00	0.43
1:A:2135:LEU:O	1:A:2139:PRO:HD3	2.18	0.43
1:A:2793:PRO:O	1:A:2797:PHE:N	2.45	0.43
1:A:2970:SER:O	1:A:2974:ILE:HG12	2.18	0.43
1:A:4745:LEU:C	1:A:4749:GLU:OE1	2.56	0.43
1:B:1815:LEU:O	1:B:1819:VAL:HG23	2.18	0.43
1:B:2212:VAL:HG11	1:B:2256:TYR:CE2	2.53	0.43
1:B:2348:GLU:O	1:B:2352:VAL:HG23	2.19	0.43
1:B:2970:SER:O	1:B:2974:ILE:HG12	2.18	0.43
1:B:4797:VAL:O	1:B:4801:LEU:HD23	2.17	0.43
1:D:46:LEU:HD23	1:D:47:CYS:O	2.17	0.43
1:D:421:PHE:CE2	1:D:507:ALA:HA	2.53	0.43
1:D:633:LEU:HD13	1:D:1639:LEU:HD11	2.01	0.43
1:D:2701:PRO:O	1:D:2704:CYS:N	2.51	0.43
1:D:2703:LEU:HD12	1:D:2703:LEU:C	2.39	0.43
1:D:2926:LEU:O	1:D:2930:LEU:HD13	2.19	0.43
1:D:3199:ALA:O	1:D:3283:ARG:HD2	2.18	0.43
1:D:3768:SER:HA	1:D:3771:HIS:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4185:GLY:CA	1:D:4191:GLU:OE1	2.66	0.43
1:C:36:CYS:SG	1:C:65:CYS:HB3	2.58	0.43
1:C:861:ILE:HG23	1:C:861:ILE:O	2.16	0.43
1:C:1281:ASN:OD1	1:C:1281:ASN:C	2.57	0.43
1:C:1590:GLN:OE1	1:C:1590:GLN:N	2.52	0.43
1:C:2255:SER:O	1:C:2259:GLU:OE1	2.37	0.43
1:C:2382:GLU:HA	1:C:2385:ARG:CZ	2.48	0.43
1:C:2634:ASN:OD1	1:C:2637:ALA:N	2.51	0.43
1:C:2920:ARG:O	1:C:2924:GLN:HG2	2.19	0.43
1:C:3320:LEU:CD1	1:C:3353:LEU:HD21	2.48	0.43
1:C:3329:ILE:O	1:C:3403:ARG:NH2	2.51	0.43
1:C:3433:GLU:HG3	1:C:3437:MET:SD	2.58	0.43
1:C:3640:PRO:O	1:C:3643:ASN:N	2.41	0.43
1:C:4045:VAL:O	1:C:4049:VAL:HG23	2.19	0.43
1:C:4551:PHE:CE2	1:C:4555:LEU:HD11	2.54	0.43
1:A:208:CYS:O	1:A:334:MET:HG3	2.19	0.43
1:A:228:ASP:OD2	1:B:155:LYS:HE2	2.18	0.43
1:A:349:GLN:NE2	1:A:354:GLY:O	2.51	0.43
1:A:950:LEU:HD13	1:A:970:LEU:CD2	2.48	0.43
1:A:1087:ARG:HB3	1:A:1223:PHE:CD1	2.53	0.43
1:A:2243:SER:HB3	1:A:2246:ASN:CG	2.39	0.43
1:A:2459:SER:HB2	1:B:133:PHE:HZ	1.83	0.43
1:A:2549:ALA:CA	1:A:2552:ARG:NH1	2.81	0.43
1:A:3112:LEU:O	1:A:3112:LEU:HG	2.18	0.43
1:A:3562:LYS:HZ2	1:A:3564:GLU:C	2.22	0.43
2:E:57:ARG:NH1	2:E:80:TYR:CE1	2.86	0.43
2:E:79:ASP:OD1	2:E:80:TYR:CD2	2.72	0.43
1:B:579:GLN:O	1:B:583:ILE:HD12	2.19	0.43
1:B:870:ILE:HD11	1:B:1049:TYR:CD2	2.53	0.43
1:B:965:TYR:CE2	1:B:967:PRO:HA	2.54	0.43
1:B:1575:LEU:HD23	1:B:1575:LEU:O	2.19	0.43
1:B:1929:MET:O	1:B:1930:LYS:CB	2.66	0.43
1:B:2747:ILE:HG21	1:B:2814:LYS:CG	2.44	0.43
1:B:2926:LEU:O	1:B:2930:LEU:HD13	2.19	0.43
1:B:3329:ILE:O	1:B:3403:ARG:NH2	2.51	0.43
1:B:4045:VAL:O	1:B:4049:VAL:HG23	2.19	0.43
1:B:4093:PHE:O	1:B:4097:MET:HG2	2.18	0.43
1:D:28:VAL:O	1:D:29:LEU:HD23	2.18	0.43
1:D:208:CYS:O	1:D:334:MET:HG3	2.19	0.43
1:D:908:VAL:HG23	1:D:909:ASN:N	2.33	0.43
1:D:1206:GLN:N	1:D:1227:ALA:HB3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2170:MET:CE	1:D:2175:GLU:HB2	2.48	0.43
1:D:3181:THR:HG22	1:D:3185:LYS:HZ2	1.77	0.43
1:D:3283:ARG:HG2	1:D:3287:ARG:NH1	2.32	0.43
1:D:3640:PRO:HB2	1:D:3642:TYR:CE1	2.53	0.43
1:D:3660:ALA:HB3	1:D:3661:TRP:HD1	1.83	0.43
1:D:4061:PHE:CE2	1:D:4065:PHE:HE2	2.37	0.43
1:D:4551:PHE:CE2	1:D:4555:LEU:HD11	2.54	0.43
1:D:4581:LYS:HD2	1:D:4582:VAL:N	2.33	0.43
1:C:208:CYS:O	1:C:334:MET:HG3	2.19	0.43
1:C:246:TYR:CD1	1:C:375:LYS:HA	2.54	0.43
1:C:2155:LEU:HD11	1:C:2185:ILE:HG23	2.00	0.43
1:C:3096:PHE:CD2	1:C:3161:VAL:HG12	2.52	0.43
1:C:3640:PRO:HB2	1:C:3642:TYR:CE1	2.53	0.43
1:C:3875:MET:HE1	1:C:3954:ALA:HB2	2.00	0.43
1:C:4640:GLU:HB2	1:C:4641:PRO:HD3	1.99	0.43
1:A:516:LYS:O	1:A:519:VAL:HG22	2.18	0.43
1:A:583:ILE:HD12	1:A:583:ILE:H	1.84	0.43
1:A:732:SER:O	1:A:735:GLN:HG3	2.17	0.43
1:A:1008:SER:OG	1:A:1010:VAL:O	2.09	0.43
1:A:2012:PHE:HD2	1:A:2021:CYS:HG	1.63	0.43
1:A:2212:VAL:HG11	1:A:2256:TYR:CE2	2.53	0.43
1:A:2244:ARG:O	1:A:2247:GLN:HB3	2.19	0.43
1:A:2574:HIS:CE1	1:A:2575:ARG:HG2	2.54	0.43
1:A:2761:TYR:HD2	1:A:2859:PRO:HD3	1.83	0.43
1:A:2926:LEU:O	1:A:2930:LEU:HD13	2.19	0.43
1:A:2960:LEU:HD22	1:A:3038:MET:HB3	2.01	0.43
1:A:3306:ALA:O	1:A:3308:THR:HG23	2.18	0.43
1:A:3400:VAL:HG23	1:A:3403:ARG:NH2	2.34	0.43
1:A:4061:PHE:CE2	1:A:4065:PHE:HE2	2.37	0.43
1:A:4145:VAL:HG13	1:A:4194:TYR:HB2	2.01	0.43
1:A:5036:LEU:O	1:A:5037:SER:CB	2.64	0.43
2:E:32:ASP:OD1	2:E:33:GLY:N	2.52	0.43
2:H:79:ASP:OD1	2:H:80:TYR:CD2	2.72	0.43
1:B:2110:TYR:O	1:B:2112:GLN:NE2	2.39	0.43
1:B:2329:GLU:HG3	1:B:2425:PHE:HA	2.01	0.43
1:B:2920:ARG:O	1:B:2924:GLN:HG2	2.19	0.43
1:B:3159:ASP:O	1:B:3163:VAL:HG23	2.19	0.43
1:B:4745:LEU:C	1:B:4749:GLU:OE1	2.56	0.43
1:D:231:LEU:CD1	1:D:245:VAL:HG12	2.48	0.43
1:D:545:ASP:OD1	1:D:546:TRP:N	2.52	0.43
1:D:583:ILE:H	1:D:583:ILE:HD12	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1715:LEU:HD23	1:D:1720:LEU:HD12	2.01	0.43
1:D:2382:GLU:HA	1:D:2385:ARG:CZ	2.48	0.43
1:D:2742:THR:HG22	1:D:2742:THR:O	2.19	0.43
1:D:3346:VAL:HG11	1:D:3414:ARG:CB	2.49	0.43
1:D:3969:ILE:HD11	1:D:4029:SER:HB2	1.99	0.43
1:D:4024:VAL:HG11	1:D:4142:ASN:HB3	2.00	0.43
1:C:545:ASP:OD1	1:C:546:TRP:N	2.52	0.43
1:C:647:ASN:ND2	1:C:820:ARG:O	2.52	0.43
1:C:950:LEU:HD21	1:C:1048:GLY:O	2.18	0.43
1:C:1791:VAL:O	1:C:1792:ALA:HB3	2.18	0.43
1:C:2313:LEU:HD11	1:C:2416:VAL:HB	2.00	0.43
1:C:2701:PRO:O	1:C:2704:CYS:N	2.51	0.43
1:C:2858:GLN:N	1:C:2859:PRO:CD	2.81	0.43
1:C:3768:SER:HA	1:C:3771:HIS:NE2	2.34	0.43
1:C:4978:HIS:O	1:C:4983:HIS:N	2.50	0.43
1:A:898:ASP:HB2	1:A:901:LYS:HG2	2.01	0.43
1:A:965:TYR:CE2	1:A:967:PRO:HA	2.54	0.43
1:A:1715:LEU:HD23	1:A:1720:LEU:HD12	2.01	0.43
1:A:1791:VAL:O	1:A:1792:ALA:HB3	2.18	0.43
1:A:2214:VAL:HG21	1:A:2228:MET:HE1	2.01	0.43
1:A:2214:VAL:CB	1:A:2228:MET:HE1	2.47	0.43
1:A:2382:GLU:HA	1:A:2385:ARG:CZ	2.48	0.43
1:A:2447:LYS:HD2	1:A:2450:ALA:H	1.83	0.43
1:A:2775:TRP:CH2	1:A:2786:LYS:HE2	2.53	0.43
1:A:3036:LYS:HA	1:A:3039:ILE:HG22	2.01	0.43
1:A:3283:ARG:HG2	1:A:3287:ARG:NH1	2.32	0.43
1:A:3768:SER:HA	1:A:3771:HIS:NE2	2.34	0.43
1:A:4673:ARG:O	1:A:4676:GLU:HG3	2.18	0.43
1:A:4834:GLY:O	1:A:4838:VAL:HG23	2.18	0.43
1:B:172:VAL:HG13	1:B:178:ARG:C	2.39	0.43
1:B:768:PHE:CE1	1:B:1474:VAL:HG22	2.52	0.43
1:B:1087:ARG:HB3	1:B:1223:PHE:CD1	2.53	0.43
1:B:1515:VAL:O	1:B:1515:VAL:HG13	2.19	0.43
1:B:2214:VAL:CB	1:B:2228:MET:HE1	2.48	0.43
1:B:2313:LEU:HD11	1:B:2416:VAL:HB	2.00	0.43
1:B:2314:LEU:HD21	1:B:2320:ASP:HA	2.00	0.43
1:B:3101:GLU:HA	1:B:3104:GLU:OE1	2.19	0.43
1:B:3249:LEU:HD21	1:B:3273:THR:HG22	2.01	0.43
1:B:4911:LEU:O	1:B:4915:VAL:HG23	2.19	0.43
1:D:510:GLU:HG2	1:D:511:ALA:N	2.34	0.43
1:D:987:ARG:O	1:D:990:GLU:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1079:LYS:HA	1:D:1189:LEU:HD11	1.99	0.43
1:D:1281:ASN:OD1	1:D:1281:ASN:C	2.57	0.43
1:D:1575:LEU:O	1:D:1575:LEU:HD23	2.19	0.43
1:D:1791:VAL:O	1:D:1792:ALA:HB3	2.18	0.43
1:D:2155:LEU:HD11	1:D:2185:ILE:HG23	2.00	0.43
1:D:2243:SER:HB3	1:D:2246:ASN:CG	2.39	0.43
1:D:2249:SER:O	1:D:2253:HIS:ND1	2.52	0.43
1:D:2326:CYS:HA	1:D:2329:GLU:OE1	2.19	0.43
1:D:2761:TYR:HD2	1:D:2859:PRO:HD3	1.83	0.43
1:D:4943:LEU:O	1:D:4947:GLN:HG2	2.18	0.43
1:C:28:VAL:O	1:C:29:LEU:HD23	2.18	0.43
1:C:172:VAL:HG13	1:C:178:ARG:C	2.39	0.43
1:C:875:ALA:HB1	1:C:922:LEU:HD22	2.00	0.43
1:C:2703:LEU:C	1:C:2703:LEU:HD12	2.39	0.43
1:C:2926:LEU:O	1:C:2930:LEU:HD13	2.19	0.43
1:C:2970:SER:O	1:C:2974:ILE:HG12	2.18	0.43
1:C:3105:LYS:HE2	1:C:3128:ASN:ND2	2.34	0.43
1:A:231:LEU:HD13	1:A:247:TYR:HE1	1.81	0.43
1:A:246:TYR:CD1	1:A:375:LYS:HA	2.54	0.43
1:A:514:SER:O	1:A:515:TRP:C	2.57	0.43
1:A:545:ASP:OD1	1:A:546:TRP:N	2.52	0.43
1:A:633:LEU:HD13	1:A:1639:LEU:HD11	2.00	0.43
1:A:789:VAL:HG12	1:A:790:ARG:N	2.34	0.43
1:A:950:LEU:HD21	1:A:1048:GLY:O	2.18	0.43
1:A:1515:VAL:HG13	1:A:1515:VAL:O	2.19	0.43
1:A:2430:ILE:HG22	1:A:2505:PHE:HB2	2.01	0.43
1:A:2742:THR:HG22	1:A:2742:THR:O	2.19	0.43
1:A:2891:LYS:HA	1:A:2894:LEU:HB2	2.00	0.43
1:A:3152:PHE:O	1:A:3156:VAL:HG23	2.19	0.43
1:A:3384:LYS:O	1:A:3388:GLU:OE1	2.37	0.43
1:A:3628:ARG:HB3	1:A:3631:ALA:HB3	2.00	0.43
1:A:3640:PRO:HB2	1:A:3642:TYR:CE1	2.53	0.43
2:H:57:ARG:NH1	2:H:80:TYR:CE1	2.86	0.43
2:F:88:PRO:O	2:F:90:ILE:HD12	2.19	0.43
1:B:322:LYS:NZ	1:B:354:GLY:O	2.46	0.43
1:B:414:PHE:CE2	1:B:418:LEU:HD11	2.54	0.43
1:B:421:PHE:CE2	1:B:507:ALA:HA	2.53	0.43
1:B:583:ILE:HD12	1:B:583:ILE:H	1.84	0.43
1:B:699:GLY:HA3	1:B:705:ASN:OD1	2.19	0.43
1:B:909:ASN:HB3	1:B:912:SER:HB2	2.01	0.43
1:B:987:ARG:O	1:B:990:GLU:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1206:GLN:N	1:B:1227:ALA:HB3	2.33	0.43
1:B:1791:VAL:O	1:B:1792:ALA:HB3	2.18	0.43
1:B:1849:LEU:HD22	1:B:1945:TYR:CE2	2.54	0.43
1:B:2249:SER:O	1:B:2253:HIS:ND1	2.52	0.43
1:B:2574:HIS:CE1	1:B:2575:ARG:HG2	2.54	0.43
1:B:2878:LEU:HD21	1:B:2882:TYR:OH	2.19	0.43
1:B:3249:LEU:O	1:B:3253:ILE:HG12	2.19	0.43
1:B:3306:ALA:O	1:B:3308:THR:HG23	2.18	0.43
1:B:3433:GLU:HG3	1:B:3437:MET:SD	2.58	0.43
1:D:172:VAL:HG13	1:D:178:ARG:C	2.39	0.43
1:D:882:TRP:O	1:D:886:ARG:HG2	2.19	0.43
1:D:1123:VAL:HG23	1:D:1132:TRP:HB2	2.01	0.43
1:D:1515:VAL:O	1:D:1515:VAL:HG13	2.19	0.43
1:D:1590:GLN:N	1:D:1590:GLN:OE1	2.52	0.43
1:D:2348:GLU:O	1:D:2352:VAL:HG23	2.19	0.43
1:D:2892:GLN:HA	1:D:2895:GLU:OE1	2.19	0.43
1:D:3101:GLU:HA	1:D:3104:GLU:OE1	2.19	0.43
1:D:3105:LYS:HE2	1:D:3128:ASN:ND2	2.34	0.43
1:D:3207:GLU:OE1	1:D:3280:TYR:OH	2.29	0.43
1:D:3386:GLU:O	1:D:3389:GLU:HB3	2.18	0.43
1:C:882:TRP:O	1:C:886:ARG:HG2	2.19	0.43
1:C:987:ARG:O	1:C:990:GLU:HB3	2.19	0.43
1:C:1052:ASN:OD1	1:C:1052:ASN:O	2.37	0.43
1:C:1087:ARG:HB3	1:C:1223:PHE:CD1	2.53	0.43
1:C:1515:VAL:HG13	1:C:1515:VAL:O	2.19	0.43
1:C:1579:MET:CE	1:C:1595:LEU:HD22	2.49	0.43
1:C:2212:VAL:HG11	1:C:2256:TYR:CE2	2.53	0.43
1:C:2313:LEU:HD12	1:C:2318:TYR:CG	2.54	0.43
1:C:2447:LYS:HD2	1:C:2450:ALA:H	1.83	0.43
1:C:3101:GLU:HA	1:C:3104:GLU:OE1	2.19	0.43
1:C:3955:MET:HE1	1:C:4016:LEU:N	2.34	0.43
1:C:4061:PHE:CE2	1:C:4065:PHE:HE2	2.37	0.43
1:A:172:VAL:HG13	1:A:178:ARG:C	2.39	0.43
1:A:510:GLU:HG2	1:A:511:ALA:N	2.34	0.43
1:A:1052:ASN:OD1	1:A:1052:ASN:O	2.37	0.43
1:A:2313:LEU:HD12	1:A:2318:TYR:CG	2.54	0.43
1:A:2314:LEU:HD21	1:A:2320:ASP:HA	2.00	0.43
1:A:2326:CYS:HA	1:A:2329:GLU:OE1	2.19	0.43
1:A:2348:GLU:O	1:A:2352:VAL:HG23	2.19	0.43
1:A:2376:LEU:O	1:A:2380:ILE:HG12	2.17	0.43
1:A:3101:GLU:HA	1:A:3104:GLU:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3157:ILE:HG22	1:A:3162:GLN:HG3	1.98	0.43
1:A:3635:CYS:HA	1:A:3638:MET:HG3	2.01	0.43
1:A:3670:GLU:OE1	1:A:3670:GLU:N	2.51	0.43
1:A:4185:GLY:CA	1:A:4191:GLU:OE1	2.66	0.43
1:A:4911:LEU:O	1:A:4915:VAL:HG23	2.19	0.43
2:G:79:ASP:OD1	2:G:80:TYR:CD2	2.72	0.43
2:F:84:ALA:CA	2:F:94:HIS:CE1	3.02	0.43
1:B:28:VAL:O	1:B:29:LEU:HD23	2.18	0.43
1:B:281:ARG:HG3	1:B:312:THR:HG22	2.00	0.43
1:B:472:ARG:NE	1:B:532:GLY:O	2.48	0.43
1:B:789:VAL:HG12	1:B:790:ARG:N	2.34	0.43
1:B:898:ASP:HB2	1:B:901:LYS:HG2	2.01	0.43
1:B:1699:GLU:HA	1:B:1814:MET:HE2	2.01	0.43
1:B:2255:SER:O	1:B:2259:GLU:OE1	2.37	0.43
1:B:2430:ILE:HG22	1:B:2505:PHE:HB2	2.01	0.43
1:B:2591:ARG:CZ	1:B:2636:PHE:HB3	2.49	0.43
1:B:2859:PRO:HB3	1:B:2932:MET:CE	2.48	0.43
1:B:2894:LEU:HG	1:B:2897:LYS:HE3	2.01	0.43
1:B:3157:ILE:HA	1:B:3161:VAL:HG21	2.01	0.43
1:B:3227:ARG:HA	1:B:3230:LEU:HG	1.99	0.43
1:B:3384:LYS:O	1:B:3388:GLU:OE1	2.37	0.43
1:B:3628:ARG:HB3	1:B:3631:ALA:HB3	2.00	0.43
1:B:3640:PRO:HB2	1:B:3642:TYR:CE1	2.53	0.43
1:B:3731:LYS:HA	1:B:3734:HIS:NE2	2.34	0.43
1:B:3985:LEU:O	1:B:3989:VAL:HG23	2.19	0.43
1:B:4833:ASN:ND2	1:B:4935:LEU:O	2.52	0.43
1:D:36:CYS:SG	1:D:65:CYS:HB3	2.58	0.43
1:D:246:TYR:CD1	1:D:375:LYS:HA	2.54	0.43
1:D:414:PHE:CE2	1:D:418:LEU:HD11	2.54	0.43
1:D:579:GLN:O	1:D:583:ILE:HD12	2.19	0.43
1:D:689:THR:HG23	1:D:776:LEU:O	2.19	0.43
1:D:748:LEU:HD11	1:D:771:PHE:HZ	1.84	0.43
1:D:1208:VAL:HG11	1:C:3575:LEU:HD21	2.01	0.43
1:D:1579:MET:CE	1:D:1595:LEU:HD22	2.49	0.43
1:D:2167:ILE:HG13	1:D:2168:VAL:N	2.33	0.43
1:D:2244:ARG:O	1:D:2247:GLN:HB3	2.19	0.43
1:D:2255:SER:O	1:D:2259:GLU:OE1	2.37	0.43
1:D:3036:LYS:HA	1:D:3039:ILE:HG22	2.01	0.43
1:D:4820:VAL:HG12	1:D:4822:THR:N	2.33	0.43
1:D:4911:LEU:O	1:D:4915:VAL:HG23	2.19	0.43
1:C:689:THR:HG23	1:C:776:LEU:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1298:HIS:HE1	1:C:1431:THR:HG23	1.83	0.43
1:C:2249:SER:O	1:C:2253:HIS:ND1	2.52	0.43
1:C:2430:ILE:HG22	1:C:2505:PHE:HB2	2.01	0.43
1:C:2574:HIS:CE1	1:C:2575:ARG:HG2	2.54	0.43
1:C:2591:ARG:CZ	1:C:2636:PHE:HB3	2.49	0.43
1:C:2859:PRO:HB3	1:C:2932:MET:CE	2.48	0.43
1:C:2879:ALA:HB1	1:C:2916:LYS:HZ2	1.83	0.43
1:C:3199:ALA:O	1:C:3283:ARG:HD2	2.19	0.43
1:C:3219:TYR:HA	1:C:3227:ARG:NH2	2.34	0.43
1:C:3842:LEU:HD23	1:C:3842:LEU:HA	1.92	0.43
1:A:231:LEU:CD1	1:A:245:VAL:HG12	2.48	0.43
1:A:689:THR:HG23	1:A:776:LEU:O	2.19	0.43
1:A:1069:TRP:CZ3	1:A:1112:ASP:HB3	2.54	0.43
1:A:1575:LEU:O	1:A:1575:LEU:HD23	2.19	0.43
1:A:2577:ILE:HG13	1:A:2578:MET:N	2.34	0.43
1:A:3346:VAL:HG11	1:A:3414:ARG:CB	2.49	0.43
1:A:3388:GLU:O	1:A:3391:GLU:HB3	2.19	0.43
1:A:3567:PRO:HA	1:A:3570:ARG:HB3	2.00	0.43
1:A:3941:ASP:OD1	1:A:3941:ASP:N	2.49	0.43
1:B:510:GLU:HG2	1:B:511:ALA:N	2.34	0.43
1:B:514:SER:O	1:B:515:TRP:C	2.57	0.43
1:B:882:TRP:O	1:B:886:ARG:HG2	2.19	0.43
1:B:908:VAL:HG23	1:B:909:ASN:N	2.33	0.43
1:B:1052:ASN:O	1:B:1052:ASN:OD1	2.37	0.43
1:B:1476:MET:O	1:B:1484:HIS:N	2.51	0.43
1:B:1715:LEU:HD23	1:B:1720:LEU:CD1	2.49	0.43
1:B:2265:LEU:HA	1:B:2330:ARG:HD2	2.00	0.43
1:B:2382:GLU:HA	1:B:2385:ARG:CZ	2.48	0.43
1:B:2536:LEU:O	1:B:2538:THR:N	2.48	0.43
1:B:2879:ALA:HB1	1:B:2916:LYS:HZ2	1.82	0.43
1:B:3105:LYS:HE2	1:B:3128:ASN:ND2	2.34	0.43
1:B:3660:ALA:HB3	1:B:3661:TRP:HD1	1.83	0.43
1:B:3768:SER:HA	1:B:3771:HIS:NE2	2.34	0.43
1:B:4024:VAL:HG11	1:B:4142:ASN:HB3	2.00	0.43
1:B:4242:ILE:HA	1:B:4245:MET:SD	2.59	0.43
1:B:4783:ILE:O	1:B:4786:ASP:OD1	2.36	0.43
1:B:4942:GLU:HA	1:B:4945:ASP:OD2	2.19	0.43
1:D:1699:GLU:OE2	1:D:1814:MET:HE3	2.19	0.43
1:D:1715:LEU:HD23	1:D:1720:LEU:CD1	2.49	0.43
1:D:2430:ILE:HG22	1:D:2505:PHE:HB2	2.01	0.43
1:D:2920:ARG:O	1:D:2924:GLN:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3159:ASP:O	1:D:3163:VAL:HG23	2.19	0.43
1:D:3249:LEU:O	1:D:3253:ILE:HG12	2.19	0.43
1:D:3331:GLU:OE2	1:D:3333:THR:HG23	2.19	0.43
1:D:3635:CYS:HA	1:D:3638:MET:HG3	2.01	0.43
1:C:591:ASP:O	1:C:1594:ARG:HD2	2.19	0.43
1:C:781:VAL:HG12	1:C:791:PHE:HZ	1.84	0.43
1:C:898:ASP:HB2	1:C:901:LYS:HG2	2.01	0.43
1:C:1505:GLN:C	1:C:1508:ARG:HB2	2.40	0.43
1:C:1849:LEU:HD22	1:C:1945:TYR:CE2	2.54	0.43
1:C:2214:VAL:CB	1:C:2228:MET:HE1	2.48	0.43
1:C:2326:CYS:HA	1:C:2329:GLU:OE1	2.19	0.43
1:C:2348:GLU:O	1:C:2352:VAL:HG23	2.19	0.43
1:C:2742:THR:O	1:C:2742:THR:HG22	2.19	0.43
1:C:3152:PHE:O	1:C:3156:VAL:HG23	2.19	0.43
1:C:3346:VAL:HG11	1:C:3414:ARG:CB	2.49	0.43
1:C:3445:TRP:O	1:C:3452:LYS:NZ	2.38	0.43
1:C:3731:LYS:HA	1:C:3734:HIS:NE2	2.34	0.43
1:C:3985:LEU:O	1:C:3989:VAL:HG23	2.19	0.43
1:A:426:ARG:HD2	1:A:506:TYR:O	2.19	0.42
1:A:472:ARG:NE	1:A:532:GLY:O	2.48	0.42
1:A:591:ASP:O	1:A:1594:ARG:HD2	2.19	0.42
1:A:748:LEU:HD11	1:A:771:PHE:HZ	1.84	0.42
1:A:987:ARG:O	1:A:990:GLU:HB3	2.19	0.42
1:A:1123:VAL:HG23	1:A:1132:TRP:HB2	2.01	0.42
1:A:2167:ILE:HG13	1:A:2168:VAL:N	2.33	0.42
1:A:2703:LEU:C	1:A:2703:LEU:HD12	2.39	0.42
1:A:2879:ALA:HB1	1:A:2916:LYS:HZ2	1.84	0.42
1:A:2894:LEU:HG	1:A:2897:LYS:HE3	2.01	0.42
1:A:3157:ILE:HA	1:A:3161:VAL:HG21	2.01	0.42
1:A:3473:ASP:O	1:A:3477:LYS:HG2	2.19	0.42
1:A:3648:ARG:O	1:A:3652:MET:HG3	2.19	0.42
1:A:4833:ASN:ND2	1:A:4935:LEU:O	2.52	0.42
1:A:4942:GLU:HA	1:A:4945:ASP:OD2	2.19	0.42
2:G:32:ASP:OD1	2:G:33:GLY:N	2.52	0.42
1:B:1123:VAL:HG23	1:B:1132:TRP:HB2	2.01	0.42
1:B:1715:LEU:HD23	1:B:1720:LEU:HD12	2.01	0.42
1:B:2161:GLN:O	1:B:2165:LEU:HD13	2.17	0.42
1:B:2233:CYS:SG	1:B:2274:ASP:OD1	2.77	0.42
1:B:2756:ASN:O	1:B:2760:GLU:HG3	2.19	0.42
1:B:3199:ALA:O	1:B:3283:ARG:HD2	2.18	0.42
1:D:1778:SER:HB3	1:D:1798:LEU:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2212:VAL:HG11	1:D:2256:TYR:CE2	2.53	0.42
1:D:2290:LEU:HD21	1:D:2295:LEU:HG	2.01	0.42
1:D:2313:LEU:HD12	1:D:2318:TYR:CG	2.54	0.42
1:D:3473:ASP:O	1:D:3477:LYS:HG2	2.19	0.42
1:D:4999:ASP:OD1	1:D:5001:THR:N	2.52	0.42
1:C:856:VAL:HG12	1:C:991:ASN:HD21	1.83	0.42
1:C:909:ASN:HB3	1:C:912:SER:HB2	2.01	0.42
1:C:965:TYR:CE2	1:C:967:PRO:HA	2.54	0.42
1:C:2167:ILE:HG13	1:C:2168:VAL:N	2.33	0.42
1:C:2495:VAL:HG23	1:C:2498:HIS:H	1.84	0.42
1:C:2878:LEU:HD21	1:C:2882:TYR:OH	2.19	0.42
1:C:4943:LEU:O	1:C:4947:GLN:HG2	2.18	0.42
1:A:214:VAL:HG22	1:A:341:TYR:CG	2.54	0.42
1:A:699:GLY:HA3	1:A:705:ASN:OD1	2.19	0.42
1:A:899:ASP:O	1:A:902:ARG:NH2	2.44	0.42
1:A:909:ASN:HB3	1:A:912:SER:HB2	2.01	0.42
1:A:1505:GLN:C	1:A:1508:ARG:HB2	2.40	0.42
1:A:1715:LEU:HD23	1:A:1720:LEU:CD1	2.49	0.42
1:A:1771:LEU:HB3	1:A:2153:MET:HE2	2.00	0.42
1:A:1849:LEU:HD22	1:A:1945:TYR:CE2	2.54	0.42
1:A:2518:LEU:HD21	1:A:2569:PHE:CE2	2.54	0.42
1:A:2591:ARG:CZ	1:A:2636:PHE:HB3	2.49	0.42
1:A:2816:MET:HE1	1:A:2823:ILE:HB	1.99	0.42
1:A:3249:LEU:O	1:A:3253:ILE:HG12	2.19	0.42
1:A:3331:GLU:OE2	1:A:3333:THR:HG23	2.19	0.42
1:A:3386:GLU:O	1:A:3389:GLU:HB3	2.18	0.42
2:H:84:ALA:CA	2:H:94:HIS:CE1	3.02	0.42
1:B:856:VAL:HG12	1:B:991:ASN:HD21	1.83	0.42
1:B:2326:CYS:HA	1:B:2329:GLU:OE1	2.19	0.42
1:B:2495:VAL:HG23	1:B:2498:HIS:H	1.84	0.42
1:B:2672:LEU:HD22	1:B:2710:LEU:HD13	2.00	0.42
1:B:2988:LYS:HZ1	1:B:2990:PRO:HG3	1.84	0.42
1:B:3106:MET:HE2	1:B:3106:MET:N	2.35	0.42
1:B:3115:VAL:O	1:B:3116:SER:HB3	2.18	0.42
1:B:3168:THR:O	1:B:3172:ILE:HG12	2.19	0.42
1:B:3528:THR:HB	1:B:3560:GLN:OE1	2.19	0.42
1:B:3648:ARG:O	1:B:3652:MET:HG3	2.19	0.42
1:B:4767:TRP:CE2	1:B:4771:ILE:HD11	2.54	0.42
1:D:281:ARG:HG3	1:D:312:THR:HG22	2.00	0.42
1:D:939:VAL:HG23	1:D:1053:ILE:HD13	1.98	0.42
1:D:1052:ASN:OD1	1:D:1052:ASN:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1422:ASP:OD1	1:D:1571:ASN:N	2.46	0.42
1:D:2894:LEU:HG	1:D:2897:LYS:HE3	2.01	0.42
1:D:3136:LEU:O	1:D:3140:LEU:HD13	2.20	0.42
1:D:4833:ASN:ND2	1:D:4935:LEU:O	2.52	0.42
1:C:231:LEU:CD1	1:C:245:VAL:HG12	2.48	0.42
1:C:421:PHE:CE2	1:C:507:ALA:HA	2.53	0.42
1:C:1069:TRP:CZ3	1:C:1112:ASP:HB3	2.54	0.42
1:C:1575:LEU:O	1:C:1575:LEU:HD23	2.19	0.42
1:C:1715:LEU:HD23	1:C:1720:LEU:CD1	2.49	0.42
1:C:2012:PHE:HD2	1:C:2021:CYS:HG	1.66	0.42
1:C:2265:LEU:HA	1:C:2330:ARG:HD2	2.00	0.42
1:C:2314:LEU:HD21	1:C:2320:ASP:HA	2.01	0.42
1:C:2518:LEU:HD21	1:C:2569:PHE:CE2	2.54	0.42
1:C:2627:VAL:HG22	1:C:2678:LEU:HB2	2.01	0.42
1:C:2892:GLN:HA	1:C:2895:GLU:OE1	2.18	0.42
1:C:2907:PRO:O	1:C:2910:THR:OG1	2.30	0.42
1:C:3159:ASP:O	1:C:3163:VAL:HG23	2.19	0.42
1:C:3628:ARG:O	1:C:3631:ALA:N	2.42	0.42
1:C:3628:ARG:HB3	1:C:3631:ALA:HB3	2.00	0.42
1:C:3660:ALA:HB3	1:C:3661:TRP:HD1	1.84	0.42
1:A:781:VAL:HG12	1:A:791:PHE:HZ	1.84	0.42
1:A:1579:MET:CE	1:A:1595:LEU:HD22	2.49	0.42
1:A:1590:GLN:OE1	1:A:1590:GLN:N	2.52	0.42
1:A:2214:VAL:HG21	1:A:2228:MET:HE2	2.01	0.42
1:A:2249:SER:O	1:A:2253:HIS:ND1	2.52	0.42
1:A:2313:LEU:HD11	1:A:2416:VAL:HB	2.00	0.42
1:A:2878:LEU:HD21	1:A:2882:TYR:OH	2.19	0.42
1:A:3105:LYS:HE2	1:A:3128:ASN:HD22	1.85	0.42
1:A:3249:LEU:HD21	1:A:3273:THR:HG22	2.01	0.42
1:A:3401:LEU:HD23	1:A:3451:PHE:CE1	2.54	0.42
1:A:3615:SER:O	1:A:3616:LYS:HB3	2.19	0.42
1:A:3988:ALA:O	1:A:3992:PHE:CD2	2.72	0.42
2:H:32:ASP:OD1	2:H:33:GLY:N	2.52	0.42
2:H:88:PRO:O	2:H:90:ILE:HD12	2.19	0.42
2:F:32:ASP:OD1	2:F:33:GLY:N	2.52	0.42
1:B:246:TYR:CD1	1:B:375:LYS:HA	2.54	0.42
1:B:633:LEU:HD13	1:B:1639:LEU:HD11	2.00	0.42
1:B:689:THR:HG23	1:B:776:LEU:O	2.19	0.42
1:B:744:VAL:HG22	1:B:759:ILE:HD13	1.99	0.42
1:B:781:VAL:HG12	1:B:791:PHE:HZ	1.84	0.42
1:B:2518:LEU:HD21	1:B:2569:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3219:TYR:HA	1:B:3227:ARG:NH2	2.34	0.42
1:B:3346:VAL:HG11	1:B:3414:ARG:CB	2.49	0.42
1:B:3400:VAL:HG23	1:B:3403:ARG:NH2	2.34	0.42
1:B:3988:ALA:O	1:B:3992:PHE:CD2	2.72	0.42
1:D:591:ASP:O	1:D:1594:ARG:HD2	2.19	0.42
1:D:684:VAL:HG22	1:D:781:VAL:HG23	2.01	0.42
1:D:781:VAL:HG12	1:D:791:PHE:HZ	1.84	0.42
1:D:886:ARG:HD3	1:D:891:TRP:CE3	2.55	0.42
1:D:1708:ARG:NH2	1:D:1837:GLN:O	2.49	0.42
1:D:2314:LEU:HD21	1:D:2320:ASP:HA	2.00	0.42
1:D:2495:VAL:HG23	1:D:2498:HIS:H	1.84	0.42
1:D:2518:LEU:HD21	1:D:2569:PHE:CE2	2.54	0.42
1:D:3249:LEU:HD21	1:D:3273:THR:HG22	2.01	0.42
1:D:3332:ALA:H	1:D:3403:ARG:NH1	2.17	0.42
1:D:3433:GLU:O	1:D:3437:MET:HG3	2.19	0.42
1:D:3615:SER:O	1:D:3616:LYS:HB3	2.20	0.42
1:D:3616:LYS:HA	1:D:3619:VAL:HG22	2.01	0.42
1:D:4747:SER:HA	1:D:4750:ILE:HG12	2.00	0.42
1:C:414:PHE:CE2	1:C:418:LEU:HD11	2.54	0.42
1:C:887:ILE:HG23	1:C:959:TYR:CE2	2.55	0.42
1:C:1024:TYR:O	1:C:1027:LEU:N	2.48	0.42
1:C:2135:LEU:O	1:C:2139:PRO:HD3	2.18	0.42
1:C:2244:ARG:O	1:C:2247:GLN:HB3	2.19	0.42
1:C:2894:LEU:HG	1:C:2897:LYS:HE3	2.01	0.42
1:C:3249:LEU:O	1:C:3253:ILE:HG12	2.19	0.42
1:C:3473:ASP:O	1:C:3477:LYS:HG2	2.20	0.42
1:C:4067:LYS:O	1:C:4070:ASP:OD1	2.36	0.42
1:C:4747:SER:HA	1:C:4750:ILE:HG12	2.00	0.42
1:C:4911:LEU:O	1:C:4915:VAL:HG23	2.19	0.42
1:C:4999:ASP:OD1	1:C:5001:THR:N	2.52	0.42
1:A:281:ARG:HG3	1:A:312:THR:HG22	2.00	0.42
1:A:579:GLN:O	1:A:583:ILE:HD12	2.19	0.42
1:A:842:PRO:O	1:A:1196:PRO:HA	2.19	0.42
1:A:2230:THR:HG23	1:A:2270:SER:CB	2.49	0.42
1:A:2255:SER:O	1:A:2259:GLU:OE1	2.37	0.42
1:A:2690:LYS:HD3	1:A:2691:TYR:O	2.20	0.42
1:A:2707:ALA:HB1	1:A:3009:TYR:CD1	2.55	0.42
1:A:2755:ILE:HD13	1:A:2810:LYS:HG3	2.02	0.42
1:A:2920:ARG:O	1:A:2924:GLN:HG2	2.19	0.42
1:A:3168:THR:O	1:A:3172:ILE:HG12	2.19	0.42
1:A:3219:TYR:HA	1:A:3227:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3319:ILE:O	1:A:3323:ILE:HG12	2.19	0.42
1:A:3528:THR:HB	1:A:3560:GLN:OE1	2.19	0.42
1:A:3548:GLU:O	1:A:3551:GLU:HG3	2.19	0.42
1:A:3603:LEU:O	1:A:3604:TYR:C	2.58	0.42
1:A:4069:LYS:HZ1	1:A:4130:ASN:HA	1.84	0.42
1:A:4242:ILE:HA	1:A:4245:MET:SD	2.59	0.42
2:G:85:THR:HG21	1:C:1786:LEU:CD2	2.49	0.42
1:B:214:VAL:HG22	1:B:341:TYR:CG	2.54	0.42
1:B:426:ARG:HD2	1:B:506:TYR:O	2.19	0.42
1:B:545:ASP:OD1	1:B:546:TRP:N	2.52	0.42
1:B:1112:ASP:CG	1:B:1113:VAL:HG23	2.39	0.42
1:B:1505:GLN:C	1:B:1508:ARG:HB2	2.40	0.42
1:B:1927:LEU:HD12	1:B:2097:LEU:HD11	2.02	0.42
1:B:2243:SER:HB3	1:B:2246:ASN:CG	2.39	0.42
1:B:2244:ARG:O	1:B:2247:GLN:HB3	2.19	0.42
1:B:2577:ILE:HG13	1:B:2578:MET:N	2.34	0.42
1:B:2819:TRP:O	1:B:2821:TRP:CG	2.72	0.42
1:B:2960:LEU:HD22	1:B:3038:MET:HB3	2.01	0.42
1:B:3136:LEU:O	1:B:3140:LEU:HD13	2.20	0.42
1:D:426:ARG:HD2	1:D:506:TYR:O	2.19	0.42
1:D:950:LEU:HD21	1:D:1048:GLY:O	2.18	0.42
1:D:1069:TRP:CZ3	1:D:1112:ASP:HB3	2.54	0.42
1:D:1931:LEU:HD12	1:D:1939:MET:CE	2.46	0.42
1:D:2230:THR:HG23	1:D:2270:SER:CB	2.49	0.42
1:D:2536:LEU:O	1:D:2538:THR:N	2.48	0.42
1:D:3168:THR:O	1:D:3172:ILE:HG12	2.19	0.42
1:D:3329:ILE:O	1:D:3403:ARG:NH2	2.51	0.42
1:D:3401:LEU:HD23	1:D:3451:PHE:CE1	2.54	0.42
1:D:3409:TYR:N	1:D:3410:PRO:HD2	2.34	0.42
1:D:4067:LYS:O	1:D:4070:ASP:OD1	2.36	0.42
1:D:4221:VAL:O	1:D:4225:GLY:N	2.51	0.42
1:C:1123:VAL:HG23	1:C:1132:TRP:HB2	2.01	0.42
1:C:1573:MET:HE3	1:C:1577:ALA:CB	2.49	0.42
1:C:1927:LEU:HD12	1:C:2097:LEU:HD11	2.02	0.42
1:C:2775:TRP:CH2	1:C:2786:LYS:HE2	2.53	0.42
1:C:3319:ILE:O	1:C:3323:ILE:HG12	2.19	0.42
1:C:3332:ALA:H	1:C:3403:ARG:NH1	2.17	0.42
1:C:4242:ILE:HA	1:C:4245:MET:SD	2.59	0.42
1:C:4767:TRP:CE2	1:C:4771:ILE:HD11	2.54	0.42
1:A:20:VAL:HG12	1:A:204:PRO:HA	2.01	0.42
1:A:414:PHE:CE2	1:A:418:LEU:HD11	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:913:LEU:O	1:A:918:ARG:NE	2.53	0.42
1:A:3105:LYS:HE2	1:A:3128:ASN:ND2	2.34	0.42
1:A:3616:LYS:HA	1:A:3619:VAL:HG22	2.01	0.42
1:A:3985:LEU:O	1:A:3989:VAL:HG23	2.19	0.42
1:B:110:ARG:HD2	1:B:115:ARG:HH21	1.85	0.42
1:B:388:LEU:HD23	1:B:388:LEU:H	1.85	0.42
1:B:647:ASN:ND2	1:B:820:ARG:O	2.52	0.42
1:B:842:PRO:O	1:B:1196:PRO:HA	2.20	0.42
1:B:1579:MET:CE	1:B:1595:LEU:HD22	2.49	0.42
1:B:2313:LEU:HD12	1:B:2318:TYR:CG	2.54	0.42
1:B:2347:GLU:OE1	1:B:2347:GLU:N	2.41	0.42
1:B:2463:LEU:HD21	1:B:2517:PHE:CZ	2.55	0.42
1:B:2601:ASP:OD1	1:B:2601:ASP:C	2.58	0.42
1:B:2703:LEU:C	1:B:2703:LEU:HD12	2.39	0.42
1:B:2892:GLN:HA	1:B:2895:GLU:OE1	2.18	0.42
1:B:2992:GLU:HA	1:B:2995:ILE:HD12	2.02	0.42
1:B:3106:MET:HE3	1:B:3128:ASN:ND2	2.35	0.42
1:B:3388:GLU:O	1:B:3391:GLU:HB3	2.19	0.42
1:B:4145:VAL:HG13	1:B:4194:TYR:HB2	2.01	0.42
1:B:4673:ARG:O	1:B:4676:GLU:HG3	2.18	0.42
1:D:647:ASN:ND2	1:D:820:ARG:O	2.52	0.42
1:D:1771:LEU:HB3	1:D:2153:MET:HE2	2.01	0.42
1:D:2591:ARG:CZ	1:D:2636:PHE:HB3	2.49	0.42
1:D:2690:LYS:HD3	1:D:2691:TYR:O	2.20	0.42
1:D:2707:ALA:HB1	1:D:3009:TYR:CD1	2.55	0.42
1:D:2736:ASP:OD1	1:D:2736:ASP:O	2.37	0.42
1:D:2819:TRP:O	1:D:2821:TRP:CG	2.73	0.42
1:D:2960:LEU:HD22	1:D:3038:MET:HB3	2.01	0.42
1:D:2970:SER:O	1:D:2974:ILE:HG12	2.18	0.42
1:C:110:ARG:HD2	1:C:115:ARG:HH21	1.85	0.42
1:C:400:ALA:O	1:C:404:ILE:HG12	2.20	0.42
1:C:583:ILE:H	1:C:583:ILE:HD12	1.84	0.42
1:C:789:VAL:HG12	1:C:790:ARG:N	2.34	0.42
1:C:886:ARG:HD3	1:C:891:TRP:CE3	2.54	0.42
1:C:942:ALA:HB3	1:C:1050:GLY:O	2.20	0.42
1:C:2577:ILE:HG13	1:C:2578:MET:N	2.34	0.42
1:C:2642:LYS:HB2	1:C:2698:MET:HE1	2.01	0.42
1:C:2819:TRP:O	1:C:2821:TRP:CG	2.72	0.42
1:C:3136:LEU:O	1:C:3140:LEU:HD13	2.20	0.42
1:C:3157:ILE:HA	1:C:3161:VAL:HG21	2.01	0.42
1:C:3386:GLU:O	1:C:3389:GLU:HB3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3388:GLU:O	1:C:3391:GLU:HB3	2.19	0.42
1:C:3400:VAL:HG23	1:C:3403:ARG:NH2	2.34	0.42
1:C:3988:ALA:O	1:C:3992:PHE:CD2	2.72	0.42
1:C:4010:ILE:O	1:C:4014:LYS:HG3	2.20	0.42
1:C:4942:GLU:HA	1:C:4945:ASP:OD2	2.19	0.42
1:A:975:VAL:HG12	1:A:976:ARG:N	2.35	0.42
1:A:1281:ASN:OD1	1:A:1281:ASN:C	2.57	0.42
1:A:1573:MET:HE3	1:A:1577:ALA:CB	2.50	0.42
1:A:2495:VAL:HG23	1:A:2498:HIS:H	1.84	0.42
1:A:2736:ASP:OD1	1:A:2736:ASP:O	2.37	0.42
1:A:2819:TRP:O	1:A:2821:TRP:CG	2.72	0.42
1:A:3159:ASP:O	1:A:3163:VAL:HG23	2.19	0.42
1:A:3332:ALA:H	1:A:3403:ARG:NH1	2.18	0.42
1:A:4024:VAL:HG11	1:A:4142:ASN:HB3	2.00	0.42
2:E:88:PRO:O	2:E:90:ILE:HD12	2.19	0.42
1:B:208:CYS:O	1:B:334:MET:HG3	2.19	0.42
1:B:400:ALA:O	1:B:404:ILE:HG12	2.20	0.42
1:B:748:LEU:HD11	1:B:771:PHE:HZ	1.84	0.42
1:B:2182:ILE:O	1:B:2186:MET:CE	2.67	0.42
1:B:2742:THR:O	1:B:2742:THR:HG22	2.19	0.42
1:B:3331:GLU:OE2	1:B:3333:THR:HG23	2.19	0.42
1:B:3473:ASP:O	1:B:3477:LYS:HG2	2.20	0.42
1:B:3615:SER:O	1:B:3616:LYS:HB3	2.19	0.42
1:B:4010:ILE:O	1:B:4014:LYS:HG3	2.20	0.42
1:B:4021:LYS:N	1:B:4139:ILE:HD13	2.34	0.42
1:D:699:GLY:HA3	1:D:705:ASN:OD1	2.19	0.42
1:D:887:ILE:HG23	1:D:959:TYR:CE2	2.55	0.42
1:D:898:ASP:HB2	1:D:901:LYS:HG2	2.01	0.42
1:D:965:TYR:CE2	1:D:967:PRO:HA	2.54	0.42
1:D:1153:ILE:CD1	1:D:1155:LEU:HD21	2.47	0.42
1:D:1218:GLY:O	1:D:1222:GLY:N	2.50	0.42
1:D:2313:LEU:HD11	1:D:2416:VAL:HB	2.00	0.42
1:D:2755:ILE:HD13	1:D:2810:LYS:HG3	2.02	0.42
1:D:2824:GLU:OE1	1:D:2824:GLU:N	2.53	0.42
1:D:2878:LEU:HD21	1:D:2882:TYR:OH	2.19	0.42
1:D:3319:ILE:O	1:D:3323:ILE:HG12	2.19	0.42
1:C:1699:GLU:HA	1:C:1814:MET:HE2	2.02	0.42
1:C:1715:LEU:HD23	1:C:1720:LEU:HD12	2.01	0.42
1:C:2329:GLU:HG3	1:C:2425:PHE:HA	2.01	0.42
1:C:2514:ASN:OD1	1:C:2514:ASN:N	2.53	0.42
1:C:2601:ASP:OD1	1:C:2601:ASP:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2960:LEU:HD22	1:C:3038:MET:HB3	2.01	0.42
1:C:3326:ASN:O	1:C:3335:MET:HE1	2.19	0.42
1:C:3331:GLU:OE2	1:C:3333:THR:HG23	2.19	0.42
1:C:3556:ASN:O	1:C:3559:LEU:N	2.37	0.42
1:C:4021:LYS:N	1:C:4139:ILE:HD13	2.34	0.42
1:A:400:ALA:O	1:A:404:ILE:HG12	2.20	0.42
1:A:647:ASN:ND2	1:A:820:ARG:O	2.52	0.42
1:A:730:VAL:HA	1:A:1476:MET:CE	2.50	0.42
1:A:856:VAL:HG12	1:A:991:ASN:HD21	1.83	0.42
1:A:879:HIS:CE1	1:A:913:LEU:HD13	2.55	0.42
1:A:882:TRP:O	1:A:886:ARG:HG2	2.19	0.42
1:A:887:ILE:HG23	1:A:959:TYR:CE2	2.55	0.42
1:A:2182:ILE:O	1:A:2186:MET:SD	2.78	0.42
1:A:3433:GLU:O	1:A:3437:MET:HG3	2.19	0.42
1:A:4045:VAL:O	1:A:4049:VAL:HG23	2.19	0.42
1:A:4956:THR:O	1:A:4965:SER:N	2.53	0.42
2:G:88:PRO:O	2:G:90:ILE:HD12	2.19	0.42
1:B:730:VAL:HA	1:B:1476:MET:CE	2.50	0.42
1:B:829:TYR:O	1:B:840:VAL:N	2.42	0.42
1:B:879:HIS:CE1	1:B:913:LEU:HD13	2.55	0.42
1:B:887:ILE:HG23	1:B:959:TYR:CE2	2.54	0.42
1:B:906:CYS:SG	1:B:913:LEU:HB2	2.60	0.42
1:B:1590:GLN:OE1	1:B:1590:GLN:N	2.52	0.42
1:B:2282:ASP:HA	1:B:2341:VAL:HG13	2.02	0.42
1:B:2674:LEU:HD23	1:B:2677:LYS:HZ1	1.78	0.42
1:B:2824:GLU:N	1:B:2824:GLU:OE1	2.53	0.42
1:B:3105:LYS:HE2	1:B:3128:ASN:HD22	1.84	0.42
1:B:3137:LEU:HG	1:B:3193:CYS:SG	2.60	0.42
1:B:4090:LYS:HD2	1:B:4123:ILE:HD11	2.02	0.42
1:D:20:VAL:HG12	1:D:204:PRO:HA	2.01	0.42
1:D:906:CYS:SG	1:D:913:LEU:HB2	2.60	0.42
1:D:1505:GLN:C	1:D:1508:ARG:HB2	2.40	0.42
1:D:1579:MET:HE2	1:D:1580:PHE:CD1	2.53	0.42
1:D:2329:GLU:HG3	1:D:2425:PHE:HA	2.01	0.42
1:D:2463:LEU:HD21	1:D:2517:PHE:CZ	2.55	0.42
1:D:2574:HIS:CE1	1:D:2575:ARG:HG2	2.54	0.42
1:D:3219:TYR:HA	1:D:3227:ARG:NH2	2.34	0.42
1:D:3388:GLU:O	1:D:3391:GLU:HB3	2.19	0.42
1:D:4767:TRP:CE2	1:D:4771:ILE:HD11	2.54	0.42
1:D:4864:ASN:O	1:D:4902:GLU:OE2	2.38	0.42
1:C:336:PRO:HA	1:C:337:PRO:HD3	1.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:667:MET:HB2	1:C:743:VAL:HG22	2.02	0.42
1:C:2233:CYS:SG	1:C:2274:ASP:OD1	2.77	0.42
1:C:2243:SER:HB3	1:C:2246:ASN:CG	2.39	0.42
1:C:2435:ARG:O	1:C:2508:ARG:NH2	2.53	0.42
1:C:3036:LYS:HA	1:C:3039:ILE:HG22	2.01	0.42
1:C:3137:LEU:HG	1:C:3193:CYS:SG	2.60	0.42
1:C:3336:LYS:O	1:C:3340:VAL:HG13	2.20	0.42
1:C:3433:GLU:O	1:C:3437:MET:HG3	2.19	0.42
1:C:3980:LEU:O	1:C:3983:SER:OG	2.18	0.42
1:C:4651:THR:OG1	1:C:4803:HIS:NE2	2.50	0.42
1:C:4833:ASN:ND2	1:C:4935:LEU:O	2.52	0.42
1:A:1153:ILE:CD1	1:A:1155:LEU:HD21	2.47	0.42
1:A:1701:ALA:HB1	1:A:1830:VAL:HG22	2.02	0.42
1:A:2270:SER:HA	1:A:2274:ASP:OD2	2.20	0.42
1:A:2992:GLU:HA	1:A:2995:ILE:HD12	2.02	0.42
1:A:3137:LEU:HG	1:A:3193:CYS:SG	2.60	0.42
1:A:3409:TYR:N	1:A:3410:PRO:HD2	2.34	0.42
1:A:4021:LYS:N	1:A:4139:ILE:HD13	2.34	0.42
1:A:4880:MET:SD	1:D:4578:LEU:O	2.77	0.42
1:B:156:GLN:NE2	1:B:157:ARG:HG2	2.35	0.42
1:B:576:ASN:OD1	1:B:2169:GLN:NE2	2.53	0.42
1:B:684:VAL:HG22	1:B:781:VAL:HG23	2.01	0.42
1:B:1286:MET:HE1	1:B:1555:LEU:HB2	2.01	0.42
1:B:1423:ASP:HB3	1:B:1426:ILE:HD12	2.02	0.42
1:B:1705:GLY:HA3	1:B:1836:PHE:CG	2.55	0.42
1:B:2612[A]:ARG:NH1	1:B:2613:TYR:CD2	2.88	0.42
1:B:3152:PHE:O	1:B:3156:VAL:HG23	2.19	0.42
1:B:4687:TYR:CD2	1:B:4706:LEU:HD11	2.55	0.42
1:D:789:VAL:HG12	1:D:790:ARG:N	2.34	0.42
1:D:1701:ALA:HB1	1:D:1830:VAL:HG22	2.02	0.42
1:D:2992:GLU:HA	1:D:2995:ILE:HD12	2.02	0.42
1:D:3326:ASN:O	1:D:3335:MET:HE1	2.20	0.42
1:D:3384:LYS:NZ	1:D:3386:GLU:HB3	2.35	0.42
1:D:3548:GLU:O	1:D:3551:GLU:HG3	2.19	0.42
1:D:3579:LEU:HD23	1:D:3581:GLY:H	1.85	0.42
1:D:4021:LYS:N	1:D:4139:ILE:HD13	2.35	0.42
1:D:4687:TYR:CD2	1:D:4706:LEU:HD11	2.55	0.42
1:C:156:GLN:NE2	1:C:157:ARG:HG2	2.35	0.42
1:C:164:ARG:HB2	1:C:167:ASP:OD2	2.20	0.42
1:C:349:GLN:NE2	1:C:354:GLY:O	2.51	0.42
1:C:684:VAL:HG22	1:C:781:VAL:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:699:GLY:HA3	1:C:705:ASN:OD1	2.19	0.42
1:C:906:CYS:SG	1:C:913:LEU:HB2	2.60	0.42
1:C:909:ASN:ND2	1:C:965:TYR:CD2	2.78	0.42
1:C:2182:ILE:O	1:C:2186:MET:SD	2.78	0.42
1:C:2690:LYS:HD3	1:C:2691:TYR:O	2.20	0.42
1:C:2756:ASN:O	1:C:2760:GLU:HG3	2.19	0.42
1:C:2824:GLU:OE1	1:C:2824:GLU:N	2.53	0.42
1:C:2874:MET:O	1:C:2878:LEU:HB2	2.20	0.42
1:C:2992:GLU:HA	1:C:2995:ILE:HD12	2.02	0.42
1:C:3635:CYS:HA	1:C:3638:MET:HG3	2.01	0.42
1:C:4221:VAL:O	1:C:4225:GLY:N	2.51	0.42
1:C:4687:TYR:CD2	1:C:4706:LEU:HD11	2.55	0.42
1:A:156:GLN:NE2	1:A:157:ARG:HG2	2.35	0.42
1:A:886:ARG:HD3	1:A:891:TRP:CE3	2.54	0.42
1:A:2182:ILE:O	1:A:2186:MET:CE	2.67	0.42
1:A:2463:LEU:HD21	1:A:2517:PHE:CZ	2.55	0.42
1:A:2672:LEU:HD22	1:A:2710:LEU:HD13	2.00	0.42
1:A:2874:MET:O	1:A:2878:LEU:HB2	2.20	0.42
1:A:3540:TYR:OH	1:A:3597:GLN:O	2.37	0.42
1:A:3731:LYS:HA	1:A:3734:HIS:NE2	2.34	0.42
1:A:3842:LEU:HD23	1:A:3842:LEU:HA	1.92	0.42
1:A:3875:MET:HE1	1:A:3954:ALA:HB2	2.01	0.42
1:A:4687:TYR:CD2	1:A:4706:LEU:HD11	2.55	0.42
1:A:4782:VAL:O	1:A:4785:THR:OG1	2.32	0.42
2:H:102:GLU:OE2	2:H:104:LEU:CD2	2.68	0.42
1:B:164:ARG:HB2	1:B:167:ASP:OD2	2.20	0.42
1:B:233:ILE:HG22	1:B:284:HIS:HE1	1.85	0.42
1:B:349:GLN:NE2	1:B:354:GLY:O	2.51	0.42
1:B:1281:ASN:OD1	1:B:1281:ASN:C	2.57	0.42
1:B:2355:ARG:O	1:B:2358:ILE:HG12	2.20	0.42
1:B:3433:GLU:O	1:B:3437:MET:HG3	2.19	0.42
1:B:3875:MET:HE1	1:B:3954:ALA:HB2	2.01	0.42
1:B:4061:PHE:CE2	1:B:4065:PHE:HE2	2.37	0.42
1:D:214:VAL:HG22	1:D:341:TYR:CG	2.54	0.42
1:D:1547:LYS:HZ3	1:D:1645:ASN:HB2	1.85	0.42
1:D:2182:ILE:O	1:D:2186:MET:CE	2.67	0.42
1:D:2756:ASN:O	1:D:2760:GLU:HG3	2.19	0.42
1:D:3253:ILE:HG22	1:D:3318:ASN:HB3	2.02	0.42
1:D:3400:VAL:HG23	1:D:3403:ARG:NH2	2.34	0.42
1:D:3603:LEU:O	1:D:3604:TYR:C	2.58	0.42
1:D:3648:ARG:O	1:D:3652:MET:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3853:ALA:O	1:D:3856:LEU:HD12	2.20	0.42
1:D:4090:LYS:HD2	1:D:4123:ILE:HD11	2.02	0.42
1:D:4942:GLU:HA	1:D:4945:ASP:OD2	2.19	0.42
1:C:510:GLU:HG2	1:C:511:ALA:N	2.34	0.42
1:C:514:SER:HB2	1:C:518:ILE:HD11	2.02	0.42
1:C:842:PRO:O	1:C:1196:PRO:HA	2.19	0.42
1:C:1126:GLY:O	1:C:1129:GLY:N	2.44	0.42
1:C:1423:ASP:HB3	1:C:1426:ILE:HD12	2.02	0.42
1:C:2088:GLU:OE1	1:C:2088:GLU:N	2.53	0.42
1:C:2182:ILE:O	1:C:2186:MET:CE	2.67	0.42
1:C:2441:HIS:O	1:C:2444:GLN:OE1	2.38	0.42
1:C:3528:THR:HB	1:C:3560:GLN:OE1	2.19	0.42
1:C:4090:LYS:HD2	1:C:4123:ILE:HD11	2.02	0.42
1:C:4145:VAL:HG13	1:C:4194:TYR:HB2	2.01	0.42
1:A:388:LEU:HD23	1:A:388:LEU:H	1.85	0.42
1:A:915:GLU:OE2	1:A:918:ARG:NH1	2.53	0.42
1:A:2290:LEU:HD21	1:A:2295:LEU:HG	2.01	0.42
1:A:2329:GLU:HG3	1:A:2425:PHE:HA	2.01	0.42
1:A:2435:ARG:O	1:A:2508:ARG:NH2	2.53	0.42
1:A:2575:ARG:HD3	1:A:2578:MET:CE	2.50	0.42
2:G:57:ARG:CZ	2:G:80:TYR:CE1	3.03	0.42
2:G:102:GLU:OE2	2:G:104:LEU:CD2	2.68	0.42
1:B:886:ARG:HD3	1:B:891:TRP:CE3	2.55	0.42
1:B:975:VAL:HG12	1:B:976:ARG:N	2.35	0.42
1:B:1698:LEU:HD22	1:B:1712:TYR:CE1	2.55	0.42
1:B:2222:GLU:O	1:B:2224:ARG:NH1	2.48	0.42
1:B:2290:LEU:HD21	1:B:2295:LEU:HG	2.01	0.42
1:B:2736:ASP:OD1	1:B:2736:ASP:O	2.37	0.42
1:B:3036:LYS:HA	1:B:3039:ILE:HG22	2.01	0.42
1:B:3336:LYS:O	1:B:3340:VAL:HG13	2.20	0.42
1:B:3409:TYR:N	1:B:3410:PRO:HD2	2.34	0.42
1:B:3814:GLN:NE2	1:B:3818:ASP:OD1	2.53	0.42
1:B:4956:THR:O	1:B:4965:SER:N	2.53	0.42
1:D:514:SER:O	1:D:515:TRP:C	2.57	0.42
1:D:576:ASN:OD1	1:D:2169:GLN:NE2	2.53	0.42
1:D:1849:LEU:HD22	1:D:1945:TYR:CE2	2.54	0.42
1:D:2270:SER:HA	1:D:2274:ASP:OD2	2.20	0.42
1:D:2577:ILE:HG13	1:D:2578:MET:N	2.34	0.42
1:D:2816:MET:CE	1:D:2823:ILE:HD12	2.50	0.42
1:D:3384:LYS:O	1:D:3388:GLU:OE1	2.37	0.42
1:D:4010:ILE:O	1:D:4014:LYS:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4242:ILE:HA	1:D:4245:MET:SD	2.59	0.42
1:C:281:ARG:HG3	1:C:312:THR:HG22	2.00	0.42
1:C:388:LEU:HD23	1:C:388:LEU:H	1.85	0.42
1:C:426:ARG:HD2	1:C:506:TYR:O	2.19	0.42
1:C:514:SER:O	1:C:515:TRP:C	2.57	0.42
1:C:975:VAL:HG12	1:C:976:ARG:N	2.35	0.42
1:C:2182:ILE:HG13	1:C:2183:GLY:N	2.35	0.42
1:C:2355:ARG:O	1:C:2358:ILE:HG12	2.20	0.42
1:C:2612[A]:ARG:NH1	1:C:2613:TYR:CD2	2.88	0.42
1:C:2927:LEU:HD11	1:C:2937:VAL:HG11	2.01	0.42
1:C:3253:ILE:HG22	1:C:3318:ASN:HB3	2.02	0.42
1:C:3384:LYS:O	1:C:3388:GLU:OE1	2.37	0.42
1:C:3384:LYS:NZ	1:C:3386:GLU:HB3	2.35	0.42
1:C:3498:ARG:HG3	1:C:3501:ASP:H	1.85	0.42
1:A:206:CYS:HA	1:A:334:MET:HE1	2.02	0.41
1:A:1102:VAL:HG11	1:A:1149:VAL:CG1	2.47	0.41
1:A:2088:GLU:OE1	1:A:2088:GLU:N	2.53	0.41
1:A:2265:LEU:HA	1:A:2330:ARG:HD2	2.00	0.41
1:A:3253:ILE:HG22	1:A:3318:ASN:HB3	2.02	0.41
1:A:4767:TRP:CE2	1:A:4771:ILE:HD11	2.54	0.41
1:B:942:ALA:HB3	1:B:1050:GLY:O	2.20	0.41
1:B:1102:VAL:HG11	1:B:1149:VAL:CG1	2.47	0.41
1:B:2088:GLU:OE1	1:B:2088:GLU:N	2.53	0.41
1:B:2707:ALA:HB1	1:B:3009:TYR:CD1	2.55	0.41
1:B:3294:PRO:HB2	1:B:3297:PRO:HD2	2.02	0.41
1:B:3616:LYS:HA	1:B:3619:VAL:HG22	2.01	0.41
1:B:3847:PHE:HZ	1:B:3937:TYR:HH	1.67	0.41
1:B:4999:ASP:OD1	1:B:5001:THR:N	2.52	0.41
1:D:400:ALA:O	1:D:404:ILE:HG12	2.20	0.41
1:D:667:MET:HB2	1:D:743:VAL:HG22	2.02	0.41
1:D:975:VAL:HG12	1:D:976:ARG:N	2.35	0.41
1:D:2265:LEU:HA	1:D:2330:ARG:HD2	2.00	0.41
1:D:2874:MET:O	1:D:2878:LEU:HB2	2.20	0.41
1:D:3100:SER:C	1:D:3104:GLU:OE1	2.59	0.41
1:D:3137:LEU:HG	1:D:3193:CYS:SG	2.60	0.41
1:D:3336:LYS:O	1:D:3340:VAL:HG13	2.20	0.41
1:D:4942:GLU:O	1:D:4946:GLN:HG3	2.20	0.41
1:C:579:GLN:O	1:C:583:ILE:HD12	2.19	0.41
1:C:759:ILE:HG23	1:C:762:CYS:HG	1.85	0.41
1:C:1698:LEU:HD22	1:C:1712:TYR:CE1	2.55	0.41
1:C:2347:GLU:OE1	1:C:2347:GLU:N	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2381:GLU:HB3	1:C:2385:ARG:HH12	1.85	0.41
1:C:3100:SER:C	1:C:3104:GLU:OE1	2.59	0.41
1:C:3168:THR:O	1:C:3172:ILE:HG12	2.19	0.41
1:C:3401:LEU:HD23	1:C:3451:PHE:CE1	2.54	0.41
1:C:3548:GLU:O	1:C:3551:GLU:HG3	2.19	0.41
1:C:3579:LEU:HD23	1:C:3581:GLY:H	1.85	0.41
1:C:3814:GLN:NE2	1:C:3818:ASP:OD1	2.53	0.41
1:A:164:ARG:HB2	1:A:167:ASP:OD2	2.20	0.41
1:A:183:SER:N	1:A:190:GLN:O	2.51	0.41
1:A:576:ASN:OD1	1:A:2169:GLN:NE2	2.53	0.41
1:A:684:VAL:HG22	1:A:781:VAL:HG23	2.01	0.41
1:A:769:GLU:OE1	1:A:769:GLU:N	2.53	0.41
1:A:1286:MET:HG2	1:A:1462:MET:O	2.20	0.41
1:A:2233:CYS:SG	1:A:2274:ASP:OD1	2.77	0.41
1:A:2441:HIS:O	1:A:2444:GLN:OE1	2.38	0.41
1:A:2496:PRO:O	1:A:2553:TYR:CD1	2.74	0.41
1:A:2612[B]:ARG:NH2	1:A:2613:TYR:CD2	2.89	0.41
1:A:3100:SER:C	1:A:3104:GLU:OE1	2.59	0.41
1:A:3336:LYS:O	1:A:3340:VAL:HG13	2.20	0.41
1:A:3498:ARG:HG3	1:A:3501:ASP:H	1.85	0.41
1:A:3579:LEU:HD23	1:A:3581:GLY:H	1.85	0.41
2:G:84:ALA:CA	2:G:94:HIS:CE1	3.02	0.41
1:B:514:SER:HB2	1:B:518:ILE:HD11	2.02	0.41
1:B:2874:MET:O	1:B:2878:LEU:HB2	2.20	0.41
1:D:445:LEU:O	1:D:449:ILE:HG12	2.20	0.41
1:D:769:GLU:OE1	1:D:769:GLU:N	2.53	0.41
1:D:856:VAL:HG12	1:D:991:ASN:HD21	1.83	0.41
1:D:1716:ILE:O	1:D:1721:GLU:N	2.53	0.41
1:D:2182:ILE:HG13	1:D:2183:GLY:N	2.35	0.41
1:D:2214:VAL:HG11	1:D:2228:MET:CE	2.50	0.41
1:D:2233:CYS:SG	1:D:2274:ASP:OD1	2.77	0.41
1:D:2435:ARG:O	1:D:2508:ARG:NH2	2.53	0.41
1:D:3157:ILE:HA	1:D:3161:VAL:HG21	2.01	0.41
1:D:3498:ARG:HG3	1:D:3501:ASP:H	1.85	0.41
1:D:3528:THR:HB	1:D:3560:GLN:OE1	2.20	0.41
1:D:3571:TRP:CE2	1:D:3572:GLN:NE2	2.88	0.41
1:D:4673:ARG:NE	1:D:4702:ASP:OD1	2.53	0.41
1:C:214:VAL:HG22	1:C:341:TYR:CG	2.54	0.41
1:C:445:LEU:O	1:C:449:ILE:HG12	2.20	0.41
1:C:769:GLU:N	1:C:769:GLU:OE1	2.53	0.41
1:C:875:ALA:HA	1:C:878:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1716:ILE:O	1:C:1721:GLU:N	2.53	0.41
1:C:2023:LEU:O	1:C:2028:ARG:CZ	2.68	0.41
1:C:2793:PRO:O	1:C:2797:PHE:N	2.45	0.41
1:C:2816:MET:CE	1:C:2823:ILE:HD12	2.50	0.41
1:C:3409:TYR:N	1:C:3410:PRO:HD2	2.34	0.41
1:C:3648:ARG:O	1:C:3652:MET:HG3	2.19	0.41
1:A:56:GLN:HG2	1:A:57:ASN:N	2.36	0.41
1:A:906:CYS:SG	1:A:913:LEU:HB2	2.60	0.41
1:A:1208:VAL:HG11	1:D:3575:LEU:HD21	2.02	0.41
1:A:2282:ASP:HA	1:A:2341:VAL:HG13	2.02	0.41
1:A:2355:ARG:O	1:A:2358:ILE:HG12	2.20	0.41
1:A:2600:ARG:O	1:A:2604:GLU:HG3	2.21	0.41
1:A:2824:GLU:OE1	1:A:2824:GLU:N	2.53	0.41
1:A:3852:LYS:O	1:A:3856:LEU:CD1	2.69	0.41
1:A:3857:GLY:O	1:A:3866:ILE:HG23	2.21	0.41
1:A:4090:LYS:HD2	1:A:4123:ILE:HD11	2.02	0.41
1:B:20:VAL:HG12	1:B:204:PRO:HA	2.01	0.41
1:B:336:PRO:HA	1:B:337:PRO:HD3	1.89	0.41
1:B:913:LEU:O	1:B:918:ARG:NE	2.53	0.41
1:B:915:GLU:OE2	1:B:918:ARG:NH1	2.53	0.41
1:B:2035:HIS:ND1	1:B:3657:TYR:OH	2.17	0.41
1:B:2182:ILE:HG13	1:B:2183:GLY:N	2.35	0.41
1:B:2214:VAL:HG11	1:B:2228:MET:CE	2.50	0.41
1:B:2514:ASN:OD1	1:B:2514:ASN:N	2.53	0.41
1:B:2575:ARG:HD3	1:B:2578:MET:CE	2.50	0.41
1:B:2600:ARG:O	1:B:2604:GLU:HG3	2.21	0.41
1:B:2755:ILE:HD13	1:B:2810:LYS:HG3	2.02	0.41
1:B:3319:ILE:O	1:B:3323:ILE:HG12	2.19	0.41
1:B:3332:ALA:H	1:B:3403:ARG:NH1	2.17	0.41
1:B:3548:GLU:O	1:B:3551:GLU:HG3	2.19	0.41
1:B:3852:LYS:O	1:B:3856:LEU:CD1	2.69	0.41
1:B:3951:PHE:CE2	1:B:3955:MET:SD	3.14	0.41
1:B:4864:ASN:O	1:B:4902:GLU:OE2	2.38	0.41
1:D:155:LYS:HE2	1:C:228:ASP:OD2	2.20	0.41
1:D:283:ARG:HB2	1:D:290:TYR:CE2	2.56	0.41
1:D:414:PHE:O	1:D:418:LEU:HG	2.20	0.41
1:D:1698:LEU:HD22	1:D:1712:TYR:CE1	2.55	0.41
1:D:2575:ARG:NH1	1:D:2578:MET:CE	2.84	0.41
1:D:2927:LEU:HD11	1:D:2937:VAL:HG11	2.01	0.41
1:D:3985:LEU:O	1:D:3989:VAL:HG23	2.19	0.41
1:D:3988:ALA:O	1:D:3992:PHE:CD2	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4145:VAL:HG13	1:D:4194:TYR:HB2	2.01	0.41
1:C:748:LEU:HD11	1:C:771:PHE:HZ	1.84	0.41
1:C:901:LYS:O	1:C:902:ARG:HB2	2.21	0.41
1:C:1472:VAL:HG22	1:C:1473:THR:N	2.36	0.41
1:C:2024:PRO:O	1:C:2027:ILE:HG22	2.21	0.41
1:C:2282:ASP:HA	1:C:2341:VAL:HG13	2.02	0.41
1:C:2290:LEU:HD21	1:C:2295:LEU:HG	2.01	0.41
1:C:2463:LEU:HD21	1:C:2517:PHE:CZ	2.55	0.41
1:C:2575:ARG:NH1	1:C:2578:MET:CE	2.84	0.41
1:C:2736:ASP:OD1	1:C:2736:ASP:O	2.37	0.41
1:C:3285:TRP:HE1	1:C:3309:SER:HG	1.69	0.41
1:C:3616:LYS:HA	1:C:3619:VAL:HG22	2.02	0.41
1:C:3853:ALA:O	1:C:3856:LEU:HD12	2.20	0.41
1:C:4956:THR:O	1:C:4965:SER:N	2.53	0.41
1:A:110:ARG:HD2	1:A:115:ARG:HH21	1.85	0.41
1:A:133:PHE:HZ	1:D:2459:SER:HB2	1.85	0.41
1:A:445:LEU:O	1:A:449:ILE:HG12	2.20	0.41
1:A:495:ASN:O	1:A:496:VAL:C	2.59	0.41
1:A:901:LYS:O	1:A:902:ARG:HB2	2.21	0.41
1:A:1074:ILE:HD12	1:A:1111:PRO:O	2.20	0.41
1:A:1927:LEU:HD12	1:A:2097:LEU:HD11	2.02	0.41
1:A:2023:LEU:O	1:A:2028:ARG:CZ	2.68	0.41
1:A:2182:ILE:HG13	1:A:2183:GLY:N	2.35	0.41
1:A:2612[A]:ARG:NH1	1:A:2613:TYR:CD2	2.88	0.41
1:A:2960:LEU:CD2	1:A:2964:LEU:HD11	2.51	0.41
1:A:3136:LEU:O	1:A:3140:LEU:HD13	2.20	0.41
1:A:3294:PRO:HB2	1:A:3297:PRO:HD2	2.01	0.41
1:A:3853:ALA:O	1:A:3856:LEU:HD12	2.20	0.41
2:E:57:ARG:CZ	2:E:80:TYR:CE1	3.03	0.41
2:E:102:GLU:OE2	2:E:104:LEU:CD2	2.68	0.41
1:B:1701:ALA:HB1	1:B:1830:VAL:HG22	2.02	0.41
1:B:1972:ASN:OD1	1:B:1976:ARG:NH1	2.54	0.41
1:B:2212:VAL:HA	1:B:2215:LEU:HD12	2.03	0.41
1:B:2441:HIS:O	1:B:2444:GLN:OE1	2.38	0.41
1:B:2690:LYS:HD3	1:B:2691:TYR:O	2.20	0.41
1:B:2986:VAL:O	1:B:2986:VAL:HG13	2.20	0.41
1:B:3285:TRP:HE1	1:B:3309:SER:HG	1.68	0.41
1:B:3384:LYS:NZ	1:B:3386:GLU:HB3	2.35	0.41
1:B:3571:TRP:CE2	1:B:3572:GLN:NE2	2.89	0.41
1:B:3575:LEU:HD21	1:C:1208:VAL:HG11	2.02	0.41
1:B:3603:LEU:O	1:B:3604:TYR:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3635:CYS:HA	1:B:3638:MET:HG3	2.01	0.41
1:D:388:LEU:HD23	1:D:388:LEU:H	1.85	0.41
1:D:759:ILE:HG23	1:D:762:CYS:HG	1.86	0.41
1:D:875:ALA:HB1	1:D:922:LEU:HD22	2.00	0.41
1:D:879:HIS:CE1	1:D:913:LEU:HD13	2.55	0.41
1:D:1426:ILE:O	1:D:1430:THR:OG1	2.27	0.41
1:D:1931:LEU:HD13	1:D:1935:VAL:HG11	2.02	0.41
1:D:2023:LEU:O	1:D:2028:ARG:CZ	2.68	0.41
1:D:2024:PRO:O	1:D:2027:ILE:HG22	2.20	0.41
1:D:2355:ARG:O	1:D:2358:ILE:HG12	2.20	0.41
1:D:2496:PRO:O	1:D:2553:TYR:CD1	2.74	0.41
1:D:3731:LYS:HA	1:D:3734:HIS:NE2	2.34	0.41
1:C:233:ILE:HG22	1:C:284:HIS:HE1	1.85	0.41
1:C:576:ASN:OD1	1:C:2169:GLN:NE2	2.53	0.41
1:C:1112:ASP:CG	1:C:1113:VAL:HG23	2.39	0.41
1:C:1701:ALA:HB1	1:C:1830:VAL:HG22	2.02	0.41
1:C:2318:TYR:CG	1:C:2395:PRO:HD3	2.56	0.41
1:C:2707:ALA:HB1	1:C:3009:TYR:CD1	2.55	0.41
1:C:2755:ILE:HD13	1:C:2810:LYS:HG3	2.02	0.41
1:C:3951:PHE:CE2	1:C:3955:MET:SD	3.14	0.41
1:A:70:GLU:OE2	1:A:110:ARG:HB3	2.21	0.41
1:A:233:ILE:HG22	1:A:284:HIS:HE1	1.85	0.41
1:A:942:ALA:HB3	1:A:1050:GLY:O	2.20	0.41
1:A:1112:ASP:CG	1:A:1113:VAL:N	2.74	0.41
1:A:1423:ASP:HB3	1:A:1426:ILE:HD12	2.02	0.41
1:A:1741:GLU:O	1:A:1745:ILE:HG13	2.21	0.41
1:A:2347:GLU:OE1	1:A:2347:GLU:N	2.41	0.41
1:A:2627:VAL:HG22	1:A:2678:LEU:HB2	2.01	0.41
1:A:3354:LEU:HD12	1:A:3415:TYR:CD2	2.56	0.41
1:A:3951:PHE:CE2	1:A:3955:MET:SD	3.14	0.41
1:A:4010:ILE:O	1:A:4014:LYS:HG3	2.20	0.41
1:A:4649:LEU:O	1:A:4653:VAL:HG23	2.21	0.41
1:A:4942:GLU:O	1:A:4946:GLN:HG3	2.20	0.41
1:A:4978:HIS:CE1	1:A:4983:HIS:CE1	3.09	0.41
1:B:228:ASP:OD2	1:C:155:LYS:HE2	2.20	0.41
1:B:445:LEU:O	1:B:449:ILE:HG12	2.20	0.41
1:B:591:ASP:O	1:B:1594:ARG:HD2	2.19	0.41
1:B:759:ILE:HG23	1:B:762:CYS:HG	1.85	0.41
1:B:839:LEU:N	1:B:839:LEU:HD12	2.36	0.41
1:B:901:LYS:O	1:B:902:ARG:HB2	2.21	0.41
1:B:1698:LEU:C	1:B:1814:MET:HE1	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2024:PRO:O	1:B:2027:ILE:HG22	2.20	0.41
1:B:2496:PRO:O	1:B:2553:TYR:CD1	2.74	0.41
1:B:2612[B]:ARG:NH2	1:B:2613:TYR:CD2	2.88	0.41
1:B:3006:ILE:HG23	1:B:3010:PHE:CE2	2.56	0.41
1:B:3144:PHE:HB2	1:B:3196:ARG:HB3	2.03	0.41
1:B:3253:ILE:HG22	1:B:3318:ASN:HB3	2.02	0.41
1:B:3384:LYS:O	1:B:3387:ALA:HB3	2.21	0.41
1:B:3401:LEU:HD23	1:B:3451:PHE:CE1	2.54	0.41
1:B:3562:LYS:HZ2	1:B:3564:GLU:C	2.23	0.41
1:D:110:ARG:HD2	1:D:115:ARG:HH21	1.85	0.41
1:D:514:SER:HB2	1:D:518:ILE:HD11	2.02	0.41
1:D:601:ASP:HA	1:D:1668:ARG:HH22	1.86	0.41
1:D:842:PRO:O	1:D:1196:PRO:HA	2.19	0.41
1:D:1112:ASP:CG	1:D:1113:VAL:HG23	2.39	0.41
1:D:1245:PHE:CE2	1:D:1600:LEU:HD13	2.56	0.41
1:D:2088:GLU:OE1	1:D:2088:GLU:N	2.53	0.41
1:D:2328:GLY:O	1:D:2332:LEU:HG	2.21	0.41
1:D:2627:VAL:HG22	1:D:2678:LEU:HB2	2.01	0.41
1:D:3222:LYS:HB3	1:D:3226:GLU:CG	2.51	0.41
1:D:3814:GLN:NE2	1:D:3818:ASP:OD1	2.53	0.41
1:D:4052:SER:O	1:D:4053:SER:C	2.59	0.41
1:D:4930:ALA:CB	1:C:4933:GLN:HG3	2.50	0.41
1:C:688:LEU:HD12	1:C:776:LEU:O	2.21	0.41
1:C:839:LEU:HD12	1:C:839:LEU:N	2.36	0.41
1:C:879:HIS:CE1	1:C:913:LEU:HD13	2.55	0.41
1:C:991:ASN:O	1:C:995:VAL:HG23	2.21	0.41
1:C:1705:GLY:HA3	1:C:1836:PHE:CG	2.55	0.41
1:C:2986:VAL:O	1:C:2986:VAL:HG13	2.20	0.41
1:C:3615:SER:O	1:C:3616:LYS:HB3	2.20	0.41
1:C:3809:ASN:HD22	1:C:3812:VAL:HG23	1.85	0.41
1:A:262:LEU:HB3	1:A:280:LEU:HD11	2.03	0.41
1:A:514:SER:HB2	1:A:518:ILE:HD11	2.02	0.41
1:A:1112:ASP:CG	1:A:1113:VAL:HG23	2.39	0.41
1:A:1289:LEU:HA	1:A:1598:GLN:O	2.21	0.41
1:A:2024:PRO:O	1:A:2027:ILE:HG22	2.21	0.41
1:A:2756:ASN:O	1:A:2760:GLU:HG3	2.19	0.41
1:A:2908:TYR:CB	1:A:2916:LYS:HE2	2.51	0.41
1:A:3144:PHE:HB2	1:A:3196:ARG:HB3	2.03	0.41
1:A:3201:MET:HE2	1:A:3203:VAL:HG22	2.01	0.41
1:A:4827:LEU:HD23	1:A:4831:THR:HG23	2.02	0.41
1:A:4859:PHE:HE1	1:A:4909:TYR:HB3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:769:GLU:OE1	1:B:769:GLU:N	2.53	0.41
1:B:1069:TRP:CZ3	1:B:1112:ASP:HB3	2.54	0.41
1:B:1286:MET:HG2	1:B:1462:MET:O	2.20	0.41
1:B:1451:GLY:HA3	1:B:1494:MET:HA	2.03	0.41
1:B:1694:LEU:O	1:B:1698:LEU:HG	2.21	0.41
1:B:2435:ARG:O	1:B:2508:ARG:NH2	2.53	0.41
1:B:3326:ASN:O	1:B:3335:MET:HE1	2.19	0.41
1:B:3857:GLY:O	1:B:3866:ILE:HG23	2.21	0.41
1:B:4993:MET:HA	1:B:4996:ILE:HD12	2.03	0.41
1:D:56:GLN:HG2	1:D:57:ASN:N	2.36	0.41
1:D:164:ARG:HB2	1:D:167:ASP:OD2	2.20	0.41
1:D:368:ARG:CZ	1:D:2307:LEU:HB3	2.51	0.41
1:D:495:ASN:O	1:D:496:VAL:C	2.59	0.41
1:D:991:ASN:O	1:D:995:VAL:HG23	2.21	0.41
1:D:1112:ASP:CG	1:D:1113:VAL:N	2.74	0.41
1:D:1286:MET:HG2	1:D:1462:MET:O	2.20	0.41
1:D:1423:ASP:HB3	1:D:1426:ILE:HD12	2.02	0.41
1:D:1472:VAL:HG22	1:D:1473:THR:N	2.36	0.41
1:D:2212:VAL:HA	1:D:2215:LEU:HD12	2.03	0.41
1:D:2612[A]:ARG:NH1	1:D:2613:TYR:CD2	2.88	0.41
1:D:2960:LEU:CD2	1:D:2964:LEU:HD11	2.51	0.41
1:D:3144:PHE:HB2	1:D:3196:ARG:HB3	2.03	0.41
1:D:3852:LYS:O	1:D:3856:LEU:CD1	2.69	0.41
1:D:4827:LEU:HD23	1:D:4831:THR:HG23	2.02	0.41
1:D:4956:THR:O	1:D:4965:SER:N	2.53	0.41
1:C:1164:LEU:HB2	1:C:1169:LEU:HD21	2.02	0.41
1:C:2102:VAL:HG22	1:C:2120:MET:HB2	2.02	0.41
1:C:2781:VAL:HG13	1:C:2781:VAL:O	2.21	0.41
1:C:3006:ILE:HG23	1:C:3010:PHE:CE2	2.56	0.41
1:C:3856:LEU:HD12	1:C:3856:LEU:H	1.86	0.41
1:C:3857:GLY:O	1:C:3866:ILE:HG23	2.21	0.41
1:A:414:PHE:O	1:A:418:LEU:HG	2.20	0.41
1:A:839:LEU:HD12	1:A:839:LEU:N	2.36	0.41
1:A:945:LYS:HD2	1:A:946:ALA:N	2.36	0.41
1:A:979:PRO:O	1:A:983:THR:HG23	2.21	0.41
1:A:1705:GLY:HA3	1:A:1836:PHE:CG	2.55	0.41
1:A:2182:ILE:HA	1:A:2185:ILE:HD12	2.03	0.41
1:A:2212:VAL:HA	1:A:2215:LEU:HD12	2.03	0.41
1:A:2816:MET:CE	1:A:2823:ILE:HD12	2.50	0.41
1:A:3326:ASN:O	1:A:3335:MET:HE1	2.19	0.41
1:A:3590:GLU:HG2	1:A:3591:LYS:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:102:GLU:OE2	2:F:104:LEU:CD2	2.68	0.41
1:B:296:ASP:OD1	1:B:297:GLN:N	2.54	0.41
1:B:403:MET:HE1	1:B:451:TYR:CD2	2.56	0.41
1:B:911:HIS:O	1:B:918:ARG:NH2	2.54	0.41
1:B:1573:MET:CE	1:B:1577:ALA:HB2	2.50	0.41
1:B:1716:ILE:O	1:B:1721:GLU:N	2.53	0.41
1:B:1741:GLU:O	1:B:1745:ILE:HG13	2.21	0.41
1:B:2023:LEU:O	1:B:2028:ARG:CZ	2.68	0.41
1:B:2381:GLU:HB3	1:B:2385:ARG:HH12	1.85	0.41
1:B:2781:VAL:O	1:B:2781:VAL:HG13	2.21	0.41
1:B:2960:LEU:CD2	1:B:2964:LEU:HD11	2.51	0.41
1:B:3628:ARG:O	1:B:3631:ALA:N	2.42	0.41
1:B:4673:ARG:NE	1:B:4702:ASP:OD1	2.53	0.41
1:B:4855:ALA:HA	1:B:4859:PHE:HB2	2.03	0.41
1:D:502:HIS:HA	1:D:505:GLU:OE1	2.21	0.41
1:D:688:LEU:HD12	1:D:776:LEU:O	2.20	0.41
1:D:730:VAL:HA	1:D:1476:MET:CE	2.50	0.41
1:D:915:GLU:OE2	1:D:918:ARG:NH1	2.53	0.41
1:D:1286:MET:CE	1:D:1555:LEU:HD12	2.46	0.41
1:D:1927:LEU:HD12	1:D:2097:LEU:HD11	2.02	0.41
1:D:2907:PRO:O	1:D:2910:THR:OG1	2.30	0.41
1:D:3332:ALA:CB	1:D:3335:MET:HE3	2.51	0.41
1:D:3354:LEU:HD12	1:D:3415:TYR:CD2	2.56	0.41
1:D:3359:ILE:HB	1:D:3360:PRO:HD3	2.03	0.41
1:D:3788:GLY:HA3	1:D:3834:ALA:HB3	2.03	0.41
1:D:3857:GLY:O	1:D:3866:ILE:HG23	2.21	0.41
1:D:4978:HIS:CE1	1:D:4983:HIS:CE1	3.09	0.41
1:C:125:ARG:NH1	1:C:134:ASP:HA	2.36	0.41
1:C:283:ARG:HB2	1:C:290:TYR:CE2	2.56	0.41
1:C:730:VAL:HA	1:C:1476:MET:CE	2.50	0.41
1:C:904:HIS:CD2	1:C:906:CYS:HB3	2.56	0.41
1:C:1206:GLN:HA	1:C:1227:ALA:O	2.21	0.41
1:C:1579:MET:HE2	1:C:1580:PHE:CD1	2.53	0.41
1:C:2270:SER:HA	1:C:2274:ASP:OD2	2.20	0.41
1:C:2612[B]:ARG:NH2	1:C:2613:TYR:CD2	2.89	0.41
1:C:2960:LEU:CD2	1:C:2964:LEU:HD11	2.51	0.41
1:C:3265:GLU:HB2	1:C:3266:MET:HE1	2.03	0.41
1:C:3536:ALA:O	1:C:3540:TYR:CD2	2.74	0.41
1:C:3852:LYS:O	1:C:3856:LEU:CD1	2.69	0.41
1:A:688:LEU:HD12	1:A:776:LEU:O	2.21	0.41
1:A:1104:TRP:CZ2	1:A:1153:ILE:HG22	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1206:GLN:HA	1:A:1227:ALA:O	2.21	0.41
1:A:1716:ILE:O	1:A:1721:GLU:N	2.53	0.41
1:A:2328:GLY:O	1:A:2332:LEU:HG	2.20	0.41
1:A:2381:GLU:CB	1:A:2385:ARG:NH1	2.84	0.41
1:A:2575:ARG:NH1	1:A:2578:MET:CE	2.84	0.41
1:A:2601:ASP:OD1	1:A:2601:ASP:C	2.58	0.41
1:A:4581:LYS:HZ3	1:A:4583:SER:HB2	1.86	0.41
1:B:502:HIS:HA	1:B:505:GLU:OE1	2.21	0.41
1:B:2138:LEU:HB2	1:B:3658:LYS:HE2	2.03	0.41
1:B:2182:ILE:O	1:B:2186:MET:SD	2.78	0.41
1:B:2230:THR:HG23	1:B:2270:SER:CB	2.49	0.41
1:B:2611:CYS:SG	1:B:2643:LEU:HD11	2.61	0.41
1:B:2627:VAL:HG22	1:B:2678:LEU:HB2	2.01	0.41
1:B:3354:LEU:HD12	1:B:3415:TYR:CD2	2.56	0.41
1:B:3590:GLU:HG2	1:B:3591:LYS:N	2.36	0.41
1:B:3853:ALA:O	1:B:3856:LEU:HD12	2.20	0.41
1:B:3856:LEU:HD12	1:B:3856:LEU:H	1.86	0.41
1:B:4052:SER:O	1:B:4053:SER:C	2.59	0.41
1:B:4942:GLU:O	1:B:4946:GLN:HG3	2.20	0.41
1:D:156:GLN:NE2	1:D:157:ARG:HG2	2.35	0.41
1:D:403:MET:HE1	1:D:451:TYR:CD2	2.55	0.41
1:D:904:HIS:CD2	1:D:906:CYS:HB3	2.56	0.41
1:D:909:ASN:ND2	1:D:965:TYR:CD2	2.78	0.41
1:D:942:ALA:HB3	1:D:1050:GLY:O	2.20	0.41
1:D:979:PRO:O	1:D:983:THR:HG23	2.21	0.41
1:D:2182:ILE:O	1:D:2186:MET:SD	2.78	0.41
1:D:2214:VAL:CB	1:D:2228:MET:HE1	2.49	0.41
1:D:2282:ASP:HA	1:D:2341:VAL:HG13	2.02	0.41
1:D:2601:ASP:OD1	1:D:2601:ASP:C	2.58	0.41
1:D:2611:CYS:SG	1:D:2643:LEU:HD11	2.61	0.41
1:D:3384:LYS:O	1:D:3387:ALA:HB3	2.21	0.41
1:D:4105:GLY:O	1:D:4109:GLN:HG2	2.21	0.41
1:D:4586:PRO:HG3	1:D:4629:TYR:CE1	2.56	0.41
1:D:4674:GLU:OE2	1:D:4775:TYR:OH	2.30	0.41
1:C:56:GLN:HG2	1:C:57:ASN:N	2.36	0.41
1:C:269:TRP:CE3	1:C:334:MET:CE	3.04	0.41
1:C:345:LEU:HD21	1:C:389:PHE:CE2	2.56	0.41
1:C:2029:GLN:HA	1:C:2032:GLN:OE1	2.21	0.41
1:C:2094:LEU:O	1:C:2098:VAL:HG23	2.21	0.41
1:C:2138:LEU:HB2	1:C:3658:LYS:HE2	2.03	0.41
1:C:2575:ARG:HD3	1:C:2578:MET:CE	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2806:ARG:HH11	1:C:2810:LYS:HE2	1.86	0.41
1:C:3144:PHE:HB2	1:C:3196:ARG:HB3	2.03	0.41
1:C:3384:LYS:O	1:C:3387:ALA:HB3	2.21	0.41
1:C:3603:LEU:O	1:C:3604:TYR:C	2.58	0.41
1:C:4674:GLU:OE2	1:C:4775:TYR:OH	2.30	0.41
1:A:236:ALA:N	1:A:242:ARG:NH2	2.69	0.41
1:A:368:ARG:CZ	1:A:2307:LEU:HB3	2.51	0.41
1:A:759:ILE:HG23	1:A:762:CYS:HG	1.86	0.41
1:A:911:HIS:O	1:A:918:ARG:NH2	2.54	0.41
1:A:1171:SER:OG	1:A:1175:SER:OG	2.37	0.41
1:A:1207:ASP:O	1:A:1210:SER:OG	2.24	0.41
1:A:1573:MET:CE	1:A:1577:ALA:HB2	2.50	0.41
1:A:2223:ILE:O	1:A:2223:ILE:CG2	2.69	0.41
1:A:2514:ASN:OD1	1:A:2514:ASN:N	2.53	0.41
1:A:2538:THR:O	1:A:2542:SER:OG	2.31	0.41
1:A:2611:CYS:SG	1:A:2643:LEU:HD11	2.61	0.41
1:A:2612[B]:ARG:NH2	1:A:2613:TYR:N	2.69	0.41
1:A:2612[B]:ARG:NH2	1:A:2613:TYR:CG	2.87	0.41
1:A:2768:PHE:HB2	1:A:2857:PRO:CG	2.50	0.41
1:A:2781:VAL:O	1:A:2781:VAL:HG13	2.21	0.41
1:A:2889:LYS:HE3	1:A:2890:LYS:HZ2	1.85	0.41
1:A:2908:TYR:CD1	1:A:2911:LEU:HD11	2.56	0.41
1:A:2914:LYS:HG3	1:A:2915:GLU:N	2.36	0.41
1:A:2986:VAL:HG13	1:A:2986:VAL:O	2.20	0.41
1:A:3354:LEU:HB2	1:A:3415:TYR:CZ	2.56	0.41
1:A:3384:LYS:NZ	1:A:3386:GLU:HB3	2.35	0.41
1:A:3571:TRP:CE2	1:A:3572:GLN:NE2	2.89	0.41
1:A:3809:ASN:HD22	1:A:3812:VAL:HG23	1.85	0.41
1:A:4052:SER:O	1:A:4053:SER:C	2.59	0.41
1:A:4105:GLY:O	1:A:4109:GLN:HG2	2.21	0.41
2:H:49:MET:CG	2:H:52:LYS:NZ	2.84	0.41
2:H:57:ARG:CZ	2:H:80:TYR:CE1	3.03	0.41
1:B:262:LEU:HB3	1:B:280:LEU:HD11	2.03	0.41
1:B:568:LEU:HD12	1:B:602:VAL:HG13	2.03	0.41
1:B:979:PRO:O	1:B:983:THR:HG23	2.21	0.41
1:B:1024:TYR:O	1:B:1027:LEU:HB3	2.21	0.41
1:B:1164:LEU:HB2	1:B:1169:LEU:HD21	2.02	0.41
1:B:1206:GLN:HA	1:B:1227:ALA:O	2.21	0.41
1:B:1289:LEU:HA	1:B:1598:GLN:O	2.21	0.41
1:B:1472:VAL:HG22	1:B:1473:THR:N	2.36	0.41
1:B:2209:GLU:HA	1:B:2212:VAL:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2328:GLY:O	1:B:2332:LEU:HG	2.20	0.41
1:B:2816:MET:CE	1:B:2823:ILE:HD12	2.50	0.41
1:B:2914:LYS:HG3	1:B:2915:GLU:N	2.36	0.41
1:B:3137:LEU:HD21	1:B:3189:ALA:HB1	2.03	0.41
1:B:3201:MET:HE2	1:B:3203:VAL:HG22	2.03	0.41
1:B:3225:ARG:O	1:B:3229:ILE:HD12	2.21	0.41
1:B:3354:LEU:HB2	1:B:3415:TYR:CZ	2.56	0.41
1:B:3536:ALA:O	1:B:3540:TYR:CD2	2.74	0.41
1:B:3950:ASN:O	1:B:3953:LYS:HG2	2.21	0.41
1:B:3996:PHE:CD1	1:B:4016:LEU:CD1	3.03	0.41
1:B:4243:PHE:O	1:B:4247:ILE:HG12	2.21	0.41
1:B:4820:VAL:HG12	1:B:4822:THR:N	2.33	0.41
1:B:4827:LEU:HD23	1:B:4831:THR:HG23	2.02	0.41
1:B:4933:GLN:HG3	1:C:4930:ALA:CB	2.51	0.41
1:D:233:ILE:HG22	1:D:284:HIS:HE1	1.85	0.41
1:D:236:ALA:N	1:D:242:ARG:NH2	2.69	0.41
1:D:345:LEU:HD21	1:D:389:PHE:CE2	2.56	0.41
1:D:515:TRP:O	1:D:519:VAL:HG13	2.21	0.41
1:D:839:LEU:N	1:D:839:LEU:HD12	2.36	0.41
1:D:875:ALA:HA	1:D:878:ILE:HG12	2.02	0.41
1:D:886:ARG:HB3	1:D:891:TRP:HB2	2.03	0.41
1:D:901:LYS:O	1:D:902:ARG:HB2	2.20	0.41
1:D:985:VAL:O	1:D:1039:LEU:HD23	2.21	0.41
1:D:1104:TRP:CZ2	1:D:1153:ILE:HG22	2.56	0.41
1:D:1153:ILE:HG23	1:D:1153:ILE:O	2.21	0.41
1:D:2029:GLN:HA	1:D:2032:GLN:OE1	2.21	0.41
1:D:2088:GLU:HG3	1:D:2092:GLN:HG2	2.03	0.41
1:D:2318:TYR:CG	1:D:2395:PRO:HD3	2.55	0.41
1:D:2441:HIS:O	1:D:2444:GLN:OE1	2.38	0.41
1:D:2575:ARG:HD3	1:D:2578:MET:CE	2.50	0.41
1:D:2576:ALA:HB1	1:D:2618:MET:HG3	2.03	0.41
1:D:2806:ARG:HH11	1:D:2810:LYS:HE2	1.86	0.41
1:D:2858:GLN:N	1:D:2859:PRO:HD3	2.36	0.41
1:D:2908:TYR:CB	1:D:2916:LYS:HE2	2.51	0.41
1:D:2986:VAL:HG13	1:D:2986:VAL:O	2.20	0.41
1:D:3225:ARG:O	1:D:3229:ILE:HD12	2.21	0.41
1:D:3692:GLU:OE1	1:D:3694:LYS:HB2	2.21	0.41
1:D:4658:ILE:CD1	1:D:4792:LEU:HB3	2.51	0.41
1:D:4859:PHE:HE1	1:D:4909:TYR:HB3	1.86	0.41
1:C:20:VAL:HG12	1:C:204:PRO:HA	2.01	0.41
1:C:172:VAL:HG13	1:C:178:ARG:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:296:ASP:OD1	1:C:297:GLN:N	2.54	0.41
1:C:601:ASP:HA	1:C:1668:ARG:HH22	1.86	0.41
1:C:1104:TRP:CZ2	1:C:1153:ILE:HG22	2.56	0.41
1:C:1972:ASN:OD1	1:C:1976:ARG:NH1	2.54	0.41
1:C:2088:GLU:HG3	1:C:2092:GLN:HG2	2.03	0.41
1:C:2170:MET:HG3	1:C:2225:PHE:CE2	2.56	0.41
1:C:2212:VAL:HA	1:C:2215:LEU:HD12	2.03	0.41
1:C:2214:VAL:HG11	1:C:2228:MET:CE	2.50	0.41
1:C:2222:GLU:O	1:C:2224:ARG:NH1	2.48	0.41
1:C:2496:PRO:O	1:C:2553:TYR:CD1	2.74	0.41
1:C:2600:ARG:O	1:C:2604:GLU:HG3	2.21	0.41
1:C:2630:VAL:N	1:C:2631:PRO:CD	2.84	0.41
1:C:2908:TYR:CD1	1:C:2911:LEU:HD11	2.56	0.41
1:C:3294:PRO:HB2	1:C:3297:PRO:HD2	2.01	0.41
1:C:3590:GLU:HG2	1:C:3591:LYS:N	2.36	0.41
1:C:3856:LEU:HD12	1:C:3856:LEU:N	2.36	0.41
1:C:4105:GLY:O	1:C:4109:GLN:HG2	2.21	0.41
1:C:4157:ASP:C	1:C:4161:ARG:CZ	2.89	0.41
1:C:4649:LEU:O	1:C:4653:VAL:HG23	2.21	0.41
1:C:4993:MET:HA	1:C:4996:ILE:HD12	2.03	0.41
1:A:283:ARG:HB2	1:A:290:TYR:CE2	2.56	0.41
1:A:345:LEU:HD21	1:A:389:PHE:CE2	2.56	0.41
1:A:667:MET:HB2	1:A:743:VAL:HG22	2.02	0.41
1:A:1153:ILE:HG23	1:A:1153:ILE:O	2.21	0.41
1:A:1245:PHE:CE2	1:A:1600:LEU:HD13	2.56	0.41
1:A:1454:THR:HB	1:A:1455:PRO:HD2	2.04	0.41
1:A:1698:LEU:HD22	1:A:1712:TYR:CE1	2.55	0.41
1:A:1805:GLU:HG2	1:A:1806:ALA:N	2.36	0.41
1:A:2381:GLU:HB3	1:A:2385:ARG:HH12	1.85	0.41
1:A:2667:THR:HG1	1:A:2671:GLU:CD	2.11	0.41
1:A:2927:LEU:HD11	1:A:2937:VAL:HG11	2.01	0.41
1:A:3006:ILE:HG23	1:A:3010:PHE:CE2	2.56	0.41
1:A:3856:LEU:HD12	1:A:3856:LEU:N	2.36	0.41
1:A:4993:MET:HA	1:A:4996:ILE:HD12	2.03	0.41
2:F:57:ARG:CZ	2:F:80:TYR:CE1	3.03	0.41
1:B:515:TRP:O	1:B:519:VAL:HG13	2.21	0.41
1:B:580:GLU:HA	1:B:583:ILE:HD13	2.03	0.41
1:B:688:LEU:HD12	1:B:776:LEU:O	2.21	0.41
1:B:2270:SER:HA	1:B:2274:ASP:OD2	2.20	0.41
1:B:2381:GLU:CB	1:B:2385:ARG:NH1	2.84	0.41
1:B:3391:GLU:O	1:B:3394:VAL:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3579:LEU:HD23	1:B:3581:GLY:H	1.85	0.41
1:B:4859:PHE:HE1	1:B:4909:TYR:HB3	1.86	0.41
1:B:4953:ASP:O	1:B:4957:LYS:HG3	2.21	0.41
1:D:269:TRP:CE3	1:D:334:MET:CE	3.04	0.41
1:D:349:GLN:NE2	1:D:354:GLY:O	2.51	0.41
1:D:651:GLY:HA3	1:D:776:LEU:HD23	2.03	0.41
1:D:911:HIS:O	1:D:918:ARG:NH2	2.54	0.41
1:D:2440:MET:O	1:D:2444:GLN:OE1	2.39	0.41
1:D:2825:LYS:HA	1:D:2935:TYR:HA	2.03	0.41
1:D:2914:LYS:HG3	1:D:2915:GLU:N	2.36	0.41
1:D:3006:ILE:HG23	1:D:3010:PHE:CE2	2.56	0.41
1:D:3294:PRO:HB2	1:D:3297:PRO:HD2	2.02	0.41
1:D:3836:MET:O	1:D:3839:CYS:SG	2.79	0.41
1:D:4978:HIS:O	1:D:4983:HIS:N	2.50	0.41
1:C:502:HIS:HA	1:C:505:GLU:OE1	2.21	0.41
1:C:535:ALA:O	1:C:539:LEU:HG	2.21	0.41
1:C:568:LEU:HD12	1:C:602:VAL:HG13	2.03	0.41
1:C:886:ARG:HB3	1:C:891:TRP:HB2	2.03	0.41
1:C:911:HIS:O	1:C:918:ARG:NH2	2.54	0.41
1:C:1153:ILE:HG23	1:C:1153:ILE:O	2.21	0.41
1:C:1451:GLY:HA3	1:C:1494:MET:HA	2.03	0.41
1:C:1716:ILE:HA	1:C:1720:LEU:HB2	2.03	0.41
1:C:2476:ILE:HD12	1:C:2536:LEU:HD11	2.03	0.41
1:C:3692:GLU:OE1	1:C:3694:LYS:HB2	2.21	0.41
1:A:125:ARG:NH1	1:A:134:ASP:HA	2.36	0.40
1:A:568:LEU:HD12	1:A:602:VAL:HG13	2.03	0.40
1:A:730:VAL:HA	1:A:1476:MET:HE1	2.04	0.40
1:A:861:ILE:HD11	1:A:863:LEU:HD11	2.03	0.40
1:A:1972:ASN:OD1	1:A:1976:ARG:NH1	2.54	0.40
1:A:2138:LEU:HB2	1:A:3658:LYS:HE2	2.03	0.40
1:A:2576:ALA:HB1	1:A:2618:MET:HG3	2.03	0.40
1:A:3059:THR:O	1:A:3062:PRO:HD2	2.22	0.40
1:A:3222:LYS:HB3	1:A:3226:GLU:CG	2.51	0.40
1:A:3384:LYS:O	1:A:3387:ALA:HB3	2.21	0.40
1:A:3391:GLU:O	1:A:3394:VAL:HG12	2.21	0.40
1:A:3788:GLY:HA3	1:A:3834:ALA:HB3	2.03	0.40
1:A:3878:ASP:OD1	1:A:3878:ASP:N	2.54	0.40
1:A:4586:PRO:HG3	1:A:4629:TYR:CE1	2.56	0.40
1:A:4673:ARG:NE	1:A:4702:ASP:OD1	2.53	0.40
1:A:4733:GLY:HA3	1:A:4736:ARG:NH1	2.36	0.40
1:A:4953:ASP:O	1:A:4957:LYS:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:70:GLU:OE2	1:B:110:ARG:HB3	2.21	0.40
1:B:231:LEU:CD1	1:B:245:VAL:HG12	2.48	0.40
1:B:236:ALA:N	1:B:242:ARG:NH2	2.69	0.40
1:B:414:PHE:O	1:B:418:LEU:HG	2.21	0.40
1:B:1074:ILE:HD12	1:B:1111:PRO:O	2.20	0.40
1:B:1805:GLU:HG2	1:B:1806:ALA:N	2.36	0.40
1:B:2548:LEU:O	1:B:2552:ARG:HD3	2.22	0.40
1:B:4105:GLY:O	1:B:4109:GLN:HG2	2.21	0.40
1:B:4580:TYR:N	1:B:4632:LEU:HD23	2.37	0.40
1:B:4586:PRO:HG3	1:B:4629:TYR:CE1	2.56	0.40
1:D:1024:TYR:O	1:D:1027:LEU:HB3	2.21	0.40
1:D:1164:LEU:HB2	1:D:1169:LEU:HD21	2.02	0.40
1:D:1251:GLU:OE1	1:D:1251:GLU:N	2.54	0.40
1:D:1435:TYR:CD1	1:D:1575:LEU:HD13	2.56	0.40
1:D:1690:ASP:OD1	1:D:1693:GLN:N	2.40	0.40
1:D:2138:LEU:HB2	1:D:3658:LYS:HE2	2.03	0.40
1:D:2258:LEU:O	1:D:2261:SER:OG	2.37	0.40
1:D:2476:ILE:HD12	1:D:2536:LEU:HD11	2.03	0.40
1:D:3265:GLU:HB2	1:D:3266:MET:HE1	2.03	0.40
1:D:3536:ALA:O	1:D:3540:TYR:CD2	2.74	0.40
1:D:3562:LYS:HZ2	1:D:3564:GLU:C	2.24	0.40
1:D:3951:PHE:CE2	1:D:3955:MET:SD	3.14	0.40
1:D:4938:ASP:OD2	1:C:4944:ARG:NE	2.47	0.40
1:C:580:GLU:HA	1:C:583:ILE:HD13	2.03	0.40
1:C:626:LEU:N	1:C:627:PRO:HD2	2.37	0.40
1:C:651:GLY:HA3	1:C:776:LEU:HD23	2.03	0.40
1:C:915:GLU:OE2	1:C:918:ARG:NH1	2.53	0.40
1:C:1286:MET:HG2	1:C:1462:MET:O	2.20	0.40
1:C:1573:MET:CE	1:C:1577:ALA:HB2	2.50	0.40
1:C:1694:LEU:O	1:C:1698:LEU:HG	2.21	0.40
1:C:2328:GLY:O	1:C:2332:LEU:HG	2.20	0.40
1:C:2825:LYS:HA	1:C:2935:TYR:HA	2.03	0.40
1:C:2908:TYR:CB	1:C:2916:LYS:HE2	2.51	0.40
1:C:3354:LEU:HD12	1:C:3415:TYR:CD2	2.56	0.40
1:C:3354:LEU:HB2	1:C:3415:TYR:CZ	2.56	0.40
1:C:3359:ILE:HB	1:C:3360:PRO:HD3	2.03	0.40
1:C:3562:LYS:HZ2	1:C:3564:GLU:C	2.24	0.40
1:C:3571:TRP:CE2	1:C:3572:GLN:NE2	2.89	0.40
1:C:3696:ASP:OD1	1:C:3699:HIS:HB2	2.22	0.40
1:C:3950:ASN:O	1:C:3953:LYS:HG2	2.21	0.40
1:C:4673:ARG:NE	1:C:4702:ASP:OD1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4953:ASP:O	1:C:4957:LYS:HG3	2.21	0.40
1:A:601:ASP:HA	1:A:1668:ARG:HH22	1.86	0.40
1:A:1024:TYR:O	1:A:1027:LEU:HB3	2.21	0.40
1:A:1256:GLU:O	1:A:1272:LEU:HD12	2.22	0.40
1:A:1694:LEU:O	1:A:1698:LEU:HG	2.21	0.40
1:A:2029:GLN:HA	1:A:2032:GLN:OE1	2.21	0.40
1:A:2247:GLN:HG3	1:A:2279:SER:HA	2.04	0.40
1:A:2318:TYR:CG	1:A:2395:PRO:HD3	2.56	0.40
1:A:3950:ASN:O	1:A:3953:LYS:HG2	2.21	0.40
1:A:4243:PHE:O	1:A:4247:ILE:HG12	2.21	0.40
1:A:4627:MET:SD	1:A:4629:TYR:CZ	3.15	0.40
2:E:49:MET:CG	2:E:52:LYS:NZ	2.84	0.40
1:B:125:ARG:NH1	1:B:134:ASP:HA	2.36	0.40
1:B:345:LEU:HD21	1:B:389:PHE:CE2	2.56	0.40
1:B:648:ILE:HG23	1:B:814:ALA:HB3	2.03	0.40
1:B:945:LYS:HD2	1:B:946:ALA:N	2.36	0.40
1:B:985:VAL:O	1:B:1039:LEU:HD23	2.21	0.40
1:B:1069:TRP:CZ3	1:B:1603:VAL:HB	2.57	0.40
1:B:2318:TYR:CG	1:B:2395:PRO:HD3	2.56	0.40
1:B:2630:VAL:N	1:B:2631:PRO:CD	2.84	0.40
1:B:2763:HIS:HE2	1:B:2805:TYR:HB3	1.87	0.40
1:B:2806:ARG:HH11	1:B:2810:LYS:HE2	1.86	0.40
1:B:2927:LEU:HD11	1:B:2937:VAL:HG11	2.01	0.40
1:B:3296:LEU:C	1:B:3296:LEU:HD23	2.41	0.40
1:B:3443:ILE:HG22	1:B:3447:LYS:HD2	2.03	0.40
1:B:4649:LEU:O	1:B:4653:VAL:HG23	2.21	0.40
1:D:172:VAL:HG13	1:D:178:ARG:N	2.36	0.40
1:D:231:LEU:HD13	1:D:247:TYR:HE1	1.81	0.40
1:D:547:VAL:O	1:D:551:LEU:CD1	2.70	0.40
1:D:839:LEU:HD23	1:D:1075:PHE:CD2	2.57	0.40
1:D:945:LYS:HD2	1:D:946:ALA:N	2.36	0.40
1:D:1069:TRP:CZ3	1:D:1603:VAL:HB	2.57	0.40
1:D:1454:THR:HB	1:D:1455:PRO:HD2	2.04	0.40
1:D:1573:MET:CE	1:D:1577:ALA:HB2	2.50	0.40
1:D:2178:MET:O	1:D:2182:ILE:HG12	2.22	0.40
1:D:2381:GLU:HB3	1:D:2385:ARG:HH12	1.85	0.40
1:D:2514:ASN:OD1	1:D:2514:ASN:N	2.53	0.40
1:D:2630:VAL:N	1:D:2631:PRO:CD	2.84	0.40
1:D:2878:LEU:HG	1:D:2882:TYR:OH	2.22	0.40
1:D:3201:MET:HE2	1:D:3203:VAL:HG22	2.01	0.40
1:D:3376:GLU:HB3	1:D:3380:ARG:NH1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3644:LEU:HD12	1:D:3645:PRO:CD	2.52	0.40
1:D:4627:MET:SD	1:D:4629:TYR:CZ	3.14	0.40
1:D:4649:LEU:O	1:D:4653:VAL:HG23	2.21	0.40
1:C:861:ILE:HD11	1:C:863:LEU:HD11	2.03	0.40
1:C:945:LYS:HD2	1:C:946:ALA:N	2.36	0.40
1:C:2209:GLU:HA	1:C:2212:VAL:HG22	2.03	0.40
1:C:2223:ILE:O	1:C:2223:ILE:CG2	2.69	0.40
1:C:2611:CYS:SG	1:C:2643:LEU:HD11	2.61	0.40
1:C:2763:HIS:HE2	1:C:2805:TYR:HB3	1.87	0.40
1:C:2768:PHE:HB2	1:C:2857:PRO:CG	2.50	0.40
1:C:3059:THR:O	1:C:3062:PRO:HD2	2.22	0.40
1:C:3222:LYS:HB3	1:C:3226:GLU:CG	2.51	0.40
1:C:3788:GLY:HA3	1:C:3834:ALA:HB3	2.03	0.40
1:C:4052:SER:O	1:C:4053:SER:C	2.59	0.40
1:C:4189:ARG:HB2	1:C:5031:GLN:NE2	2.36	0.40
1:C:4658:ILE:CD1	1:C:4792:LEU:HB3	2.51	0.40
1:C:4859:PHE:HE1	1:C:4909:TYR:HB3	1.86	0.40
1:A:580:GLU:HA	1:A:583:ILE:HD13	2.03	0.40
1:A:1435:TYR:CD1	1:A:1575:LEU:HD13	2.57	0.40
1:A:2209:GLU:HA	1:A:2212:VAL:HG22	2.03	0.40
1:A:2754:PHE:HE1	1:A:2929:PHE:CD2	2.40	0.40
1:A:3536:ALA:O	1:A:3540:TYR:CD2	2.74	0.40
1:A:4855:ALA:HA	1:A:4859:PHE:HB2	2.03	0.40
1:B:601:ASP:HA	1:B:1668:ARG:HH22	1.86	0.40
1:B:651:GLY:HA3	1:B:776:LEU:HD23	2.03	0.40
1:B:884:LEU:O	1:B:887:ILE:N	2.54	0.40
1:B:908:VAL:HG23	1:B:909:ASN:H	1.87	0.40
1:B:1153:ILE:O	1:B:1153:ILE:HG23	2.21	0.40
1:B:1270:LEU:HD11	1:B:1591:CYS:SG	2.61	0.40
1:B:2754:PHE:HE1	1:B:2929:PHE:CD2	2.40	0.40
1:B:3413:ILE:HG23	1:B:3516:LYS:CD	2.51	0.40
1:B:3498:ARG:HG3	1:B:3501:ASP:H	1.85	0.40
1:B:3875:MET:CE	1:B:3953:LYS:HG3	2.50	0.40
1:B:4157:ASP:C	1:B:4161:ARG:CZ	2.89	0.40
1:D:70:GLU:OE2	1:D:110:ARG:HB3	2.21	0.40
1:D:296:ASP:OD1	1:D:297:GLN:N	2.54	0.40
1:D:568:LEU:HD12	1:D:602:VAL:HG13	2.03	0.40
1:D:884:LEU:O	1:D:887:ILE:N	2.54	0.40
1:D:1206:GLN:HA	1:D:1227:ALA:O	2.21	0.40
1:D:1289:LEU:HA	1:D:1598:GLN:O	2.21	0.40
1:D:1451:GLY:HA3	1:D:1494:MET:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1705:GLY:HA3	1:D:1836:PHE:CG	2.55	0.40
1:D:1972:ASN:OD1	1:D:1976:ARG:NH1	2.54	0.40
1:D:2116:LEU:O	1:D:2120:MET:HG2	2.21	0.40
1:D:2170:MET:HG3	1:D:2225:PHE:CE2	2.56	0.40
1:D:2612[B]:ARG:NH2	1:D:2613:TYR:CD2	2.88	0.40
1:D:3296:LEU:HD23	1:D:3296:LEU:C	2.41	0.40
1:D:3521:GLY:O	1:D:3524:MET:HB3	2.22	0.40
1:D:3856:LEU:HD12	1:D:3856:LEU:H	1.86	0.40
1:D:3996:PHE:CD1	1:D:4016:LEU:CD1	3.03	0.40
1:D:4993:MET:HA	1:D:4996:ILE:HD12	2.03	0.40
1:C:70:GLU:OE2	1:C:110:ARG:HB3	2.21	0.40
1:C:236:ALA:N	1:C:242:ARG:NH2	2.68	0.40
1:C:515:TRP:O	1:C:519:VAL:HG13	2.21	0.40
1:C:985:VAL:O	1:C:1039:LEU:HD23	2.21	0.40
1:C:1024:TYR:O	1:C:1027:LEU:HB3	2.21	0.40
1:C:1069:TRP:CZ3	1:C:1603:VAL:HB	2.57	0.40
1:C:1256:GLU:O	1:C:1272:LEU:HD12	2.22	0.40
1:C:1270:LEU:HD11	1:C:1591:CYS:SG	2.61	0.40
1:C:1741:GLU:O	1:C:1745:ILE:HG13	2.21	0.40
1:C:1931:LEU:HD13	1:C:1935:VAL:HG11	2.02	0.40
1:C:2178:MET:O	1:C:2182:ILE:HG12	2.21	0.40
1:C:2381:GLU:CB	1:C:2385:ARG:NH1	2.84	0.40
1:C:3296:LEU:C	1:C:3296:LEU:HD23	2.41	0.40
1:C:3332:ALA:CB	1:C:3335:MET:HE3	2.51	0.40
1:C:4666:VAL:N	1:C:4667:PRO:CD	2.84	0.40
1:A:831:ARG:NH2	1:A:1199:VAL:HG21	2.35	0.40
1:A:875:ALA:HB1	1:A:922:LEU:HD22	2.00	0.40
1:A:884:LEU:O	1:A:887:ILE:N	2.54	0.40
1:A:1286:MET:HE1	1:A:1555:LEU:HB2	2.03	0.40
1:A:2088:GLU:HG3	1:A:2092:GLN:HG2	2.03	0.40
1:A:2170:MET:HG3	1:A:2225:PHE:CE2	2.56	0.40
1:A:2214:VAL:HG11	1:A:2228:MET:CE	2.50	0.40
1:A:2377:LEU:O	1:A:2381:GLU:HG3	2.22	0.40
1:A:2440:MET:O	1:A:2444:GLN:OE1	2.40	0.40
1:A:2763:HIS:HE2	1:A:2805:TYR:HB3	1.87	0.40
1:A:2806:ARG:HH11	1:A:2810:LYS:HE2	1.86	0.40
1:A:2960:LEU:HD23	1:A:2960:LEU:O	2.22	0.40
1:A:3209:GLN:OE1	1:A:3209:GLN:N	2.45	0.40
1:A:3413:ILE:HG23	1:A:3516:LYS:CD	2.51	0.40
1:A:3856:LEU:HD12	1:A:3856:LEU:H	1.86	0.40
1:A:4157:ASP:C	1:A:4161:ARG:CZ	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:56:GLN:HG2	1:B:57:ASN:N	2.36	0.40
1:B:991:ASN:O	1:B:995:VAL:HG23	2.21	0.40
1:B:1754:GLY:O	1:B:1757:ALA:N	2.54	0.40
1:B:2102:VAL:HG22	1:B:2120:MET:HB2	2.02	0.40
1:B:2441:HIS:CA	1:B:2444:GLN:OE1	2.69	0.40
1:D:1270:LEU:HD11	1:D:1591:CYS:SG	2.61	0.40
1:D:2094:LEU:O	1:D:2098:VAL:HG23	2.21	0.40
1:D:2347:GLU:OE1	1:D:2347:GLU:N	2.41	0.40
1:D:2514:ASN:ND2	1:D:2516:ASP:OD1	2.54	0.40
1:D:3137:LEU:HD21	1:D:3189:ALA:HB1	2.03	0.40
1:D:3439:GLY:HA2	1:D:3514:LEU:HD11	2.04	0.40
1:D:3590:GLU:HG2	1:D:3591:LYS:N	2.36	0.40
1:D:3696:ASP:OD1	1:D:3699:HIS:HB2	2.22	0.40
1:D:3719:ASP:N	1:D:3793:MET:CE	2.81	0.40
1:D:4733:GLY:HA3	1:D:4736:ARG:NH1	2.37	0.40
1:D:4927:ILE:O	1:D:4930:ALA:HB3	2.22	0.40
1:C:414:PHE:O	1:C:418:LEU:HG	2.20	0.40
1:C:706:GLY:N	1:C:709:ASP:OD2	2.54	0.40
1:C:1074:ILE:HD12	1:C:1111:PRO:O	2.21	0.40
1:C:1289:LEU:HA	1:C:1598:GLN:O	2.21	0.40
1:C:1454:THR:HB	1:C:1455:PRO:HD2	2.03	0.40
1:C:2116:LEU:O	1:C:2120:MET:HG2	2.21	0.40
1:C:3106:MET:HE1	1:C:3128:ASN:ND2	2.35	0.40
1:C:3376:GLU:HB3	1:C:3380:ARG:NH1	2.37	0.40
1:C:4586:PRO:HG3	1:C:4629:TYR:CE1	2.56	0.40
1:C:4827:LEU:HD23	1:C:4831:THR:HG23	2.02	0.40
1:C:4942:GLU:O	1:C:4946:GLN:HG3	2.20	0.40
1:C:5036:LEU:O	1:C:5037:SER:CB	2.64	0.40
1:A:547:VAL:O	1:A:551:LEU:CD1	2.70	0.40
1:A:985:VAL:O	1:A:1039:LEU:HD23	2.21	0.40
1:A:991:ASN:O	1:A:995:VAL:HG23	2.21	0.40
1:A:1218:GLY:O	1:A:1222:GLY:N	2.50	0.40
1:A:2102:VAL:HG22	1:A:2120:MET:HB2	2.02	0.40
1:A:2116:LEU:O	1:A:2120:MET:HG2	2.21	0.40
1:A:3111:ARG:HH21	1:A:3178:THR:HG21	1.87	0.40
1:A:3696:ASP:OD1	1:A:3699:HIS:HB2	2.22	0.40
1:A:4159:ARG:O	1:A:4162:ASN:OD1	2.40	0.40
1:A:4189:ARG:HB2	1:A:5031:GLN:NE2	2.36	0.40
1:B:172:VAL:HG13	1:B:178:ARG:N	2.36	0.40
1:B:242:ARG:O	1:B:242:ARG:HG2	2.22	0.40
1:B:839:LEU:HD23	1:B:1075:PHE:CD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:904:HIS:CD2	1:B:906:CYS:HB3	2.56	0.40
1:B:1104:TRP:CZ2	1:B:1153:ILE:HG22	2.56	0.40
1:B:1153:ILE:CD1	1:B:1155:LEU:HD21	2.47	0.40
1:B:2094:LEU:O	1:B:2098:VAL:HG23	2.21	0.40
1:B:3677:LEU:O	1:B:3697:PRO:HD2	2.22	0.40
1:B:3842:LEU:HD23	1:B:3874:VAL:CG1	2.51	0.40
1:B:4020:GLN:O	1:B:4024:VAL:HG23	2.22	0.40
1:B:4189:ARG:HB2	1:B:5031:GLN:NE2	2.36	0.40
1:D:861:ILE:HD11	1:D:863:LEU:HD11	2.03	0.40
1:D:2028:ARG:O	1:D:2032:GLN:OE1	2.40	0.40
1:D:2102:VAL:HG22	1:D:2120:MET:HB2	2.02	0.40
1:D:2381:GLU:CB	1:D:2385:ARG:NH1	2.84	0.40
1:D:2498:HIS:O	1:D:2501:SER:OG	2.33	0.40
1:D:2600:ARG:O	1:D:2604:GLU:HG3	2.21	0.40
1:D:2988:LYS:HZ2	1:D:2990:PRO:HB3	1.85	0.40
1:D:3078:ARG:O	1:D:3082:LYS:HD3	2.22	0.40
1:D:3209:GLN:OE1	1:D:3209:GLN:N	2.45	0.40
1:D:3842:LEU:HD23	1:D:3874:VAL:CG1	2.51	0.40
1:D:4189:ARG:HB2	1:D:5031:GLN:NE2	2.36	0.40
1:D:4953:ASP:O	1:D:4957:LYS:HG3	2.21	0.40
1:C:364:PRO:O	1:C:365:LYS:HB3	2.21	0.40
1:C:648:ILE:HG23	1:C:814:ALA:HB3	2.03	0.40
1:C:831:ARG:NH2	1:C:1199:VAL:HG21	2.35	0.40
1:C:839:LEU:HD23	1:C:1075:PHE:CD2	2.57	0.40
1:C:1218:GLY:O	1:C:1222:GLY:N	2.50	0.40
1:C:1245:PHE:CE2	1:C:1600:LEU:HD13	2.56	0.40
1:C:2377:LEU:O	1:C:2381:GLU:HG3	2.22	0.40
1:C:2514:ASN:ND2	1:C:2516:ASP:OD1	2.54	0.40
1:C:2548:LEU:O	1:C:2552:ARG:HD3	2.22	0.40
1:C:3391:GLU:O	1:C:3394:VAL:HG12	2.21	0.40
1:C:3413:ILE:HG23	1:C:3516:LYS:CD	2.51	0.40
1:C:3439:GLY:HA2	1:C:3514:LEU:HD11	2.04	0.40
1:C:3443:ILE:HG22	1:C:3447:LYS:HD2	2.03	0.40
1:C:3644:LEU:HD12	1:C:3645:PRO:CD	2.52	0.40
1:C:3836:MET:O	1:C:3839:CYS:SG	2.80	0.40
1:C:4580:TYR:CZ	1:C:4630:TYR:HB3	2.57	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	4385/5037 (87%)	4253 (97%)	128 (3%)	4 (0%)	48	77
1	B	4385/5037 (87%)	4254 (97%)	127 (3%)	4 (0%)	48	77
1	C	4385/5037 (87%)	4253 (97%)	128 (3%)	4 (0%)	48	77
1	D	4385/5037 (87%)	4254 (97%)	127 (3%)	4 (0%)	48	77
2	E	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	F	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	G	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	H	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
All	All	17960/20580 (87%)	17426 (97%)	518 (3%)	16 (0%)	50	77

All (16) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	3300	ALA
1	A	4711	PHE
1	B	3300	ALA
1	B	4711	PHE
1	D	3300	ALA
1	D	4711	PHE
1	C	3300	ALA
1	C	4711	PHE
1	A	55	ALA
1	A	361	ALA
1	B	55	ALA
1	B	361	ALA
1	D	55	ALA
1	D	361	ALA
1	C	55	ALA
1	C	361	ALA

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

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	3836/4276 (90%)	3801 (99%)	35 (1%)	75	87
1	B	3836/4276 (90%)	3801 (99%)	35 (1%)	75	87
1	C	3836/4276 (90%)	3801 (99%)	35 (1%)	75	87
1	D	3836/4276 (90%)	3801 (99%)	35 (1%)	75	87
2	E	89/90 (99%)	87 (98%)	2 (2%)	47	68
2	F	89/90 (99%)	87 (98%)	2 (2%)	47	68
2	G	89/90 (99%)	87 (98%)	2 (2%)	47	68
2	H	89/90 (99%)	87 (98%)	2 (2%)	47	68
All	All	15700/17464 (90%)	15552 (99%)	148 (1%)	77	87

All (148) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	125	ARG
1	A	155	LYS
1	A	424	LYS
1	A	945	LYS
1	A	960	MET
1	A	1068	ARG
1	A	1720	LEU
1	A	1759	ARG
1	A	1865	MET
1	A	2268[A]	GLN
1	A	2268[B]	GLN
1	A	2336	ARG
1	A	2440	MET
1	A	2552	ARG
1	A	2584[A]	HIS
1	A	2584[B]	HIS
1	A	2588	ARG
1	A	2612[A]	ARG
1	A	2612[B]	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	2677	LYS
1	A	2816	MET
1	A	2870[A]	GLU
1	A	2870[B]	GLU
1	A	2889	LYS
1	A	3422[A]	HIS
1	A	3422[B]	HIS
1	A	3499	ARG
1	A	3550	ARG
1	A	3562	LYS
1	A	3622	LYS
1	A	3626	LYS
1	A	3856	LEU
1	A	3978	GLN
1	A	4957	LYS
1	A	4995	LEU
2	E	17	LYS
2	E	94	HIS
2	H	17	LYS
2	H	94	HIS
2	G	17	LYS
2	G	94	HIS
2	F	17	LYS
2	F	94	HIS
1	B	125	ARG
1	B	155	LYS
1	B	424	LYS
1	B	945	LYS
1	B	960	MET
1	B	1068	ARG
1	B	1720	LEU
1	B	1759	ARG
1	B	1865	MET
1	B	2268[A]	GLN
1	B	2268[B]	GLN
1	B	2336	ARG
1	B	2440	MET
1	B	2552	ARG
1	B	2584[A]	HIS
1	B	2584[B]	HIS
1	B	2588	ARG
1	B	2612[A]	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	2612[B]	ARG
1	B	2677	LYS
1	B	2816	MET
1	B	2870[A]	GLU
1	B	2870[B]	GLU
1	B	2889	LYS
1	B	3422[A]	HIS
1	B	3422[B]	HIS
1	B	3499	ARG
1	B	3550	ARG
1	B	3562	LYS
1	B	3622	LYS
1	B	3626	LYS
1	B	3856	LEU
1	B	3978	GLN
1	B	4957	LYS
1	B	4995	LEU
1	D	125	ARG
1	D	155	LYS
1	D	424	LYS
1	D	945	LYS
1	D	960	MET
1	D	1068	ARG
1	D	1720	LEU
1	D	1759	ARG
1	D	1865	MET
1	D	2268[A]	GLN
1	D	2268[B]	GLN
1	D	2336	ARG
1	D	2440	MET
1	D	2552	ARG
1	D	2584[A]	HIS
1	D	2584[B]	HIS
1	D	2588	ARG
1	D	2612[A]	ARG
1	D	2612[B]	ARG
1	D	2677	LYS
1	D	2816	MET
1	D	2870[A]	GLU
1	D	2870[B]	GLU
1	D	2889	LYS
1	D	3422[A]	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	D	3422[B]	HIS
1	D	3499	ARG
1	D	3550	ARG
1	D	3562	LYS
1	D	3622	LYS
1	D	3626	LYS
1	D	3856	LEU
1	D	3978	GLN
1	D	4957	LYS
1	D	4995	LEU
1	C	125	ARG
1	C	155	LYS
1	C	424	LYS
1	C	945	LYS
1	C	960	MET
1	C	1068	ARG
1	C	1720	LEU
1	C	1759	ARG
1	C	1865	MET
1	C	2268[A]	GLN
1	C	2268[B]	GLN
1	C	2336	ARG
1	C	2440	MET
1	C	2552	ARG
1	C	2584[A]	HIS
1	C	2584[B]	HIS
1	C	2588	ARG
1	C	2612[A]	ARG
1	C	2612[B]	ARG
1	C	2677	LYS
1	C	2816	MET
1	C	2870[A]	GLU
1	C	2870[B]	GLU
1	C	2889	LYS
1	C	3422[A]	HIS
1	C	3422[B]	HIS
1	C	3499	ARG
1	C	3550	ARG
1	C	3562	LYS
1	C	3622	LYS
1	C	3626	LYS
1	C	3856	LEU

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Mol	Chain	Res	Type
1	C	3978	GLN
1	C	4957	LYS
1	C	4995	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (90) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	111	HIS
1	A	224	HIS
1	A	284	HIS
1	A	582	HIS
1	A	921	ASN
1	A	991	ASN
1	A	1296	GLN
1	A	1484	HIS
1	A	1563	GLN
1	A	1702	HIS
1	A	2036	GLN
1	A	2045	GLN
1	A	2213	ASN
1	A	2260	ASN
1	A	3109	ASN
1	A	3268	HIS
1	A	3325	ASN
1	A	3781	GLN
1	A	3950	ASN
1	A	4037	ASN
1	A	4246	GLN
1	A	5031	GLN
1	B	111	HIS
1	B	224	HIS
1	B	284	HIS
1	B	582	HIS
1	B	921	ASN
1	B	991	ASN
1	B	1296	GLN
1	B	1484	HIS
1	B	1545	ASN
1	B	1563	GLN
1	B	1702	HIS
1	B	1756	ASN
1	B	1952	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	2036	GLN
1	B	2213	ASN
1	B	2260	ASN
1	B	3109	ASN
1	B	3268	HIS
1	B	3325	ASN
1	B	3781	GLN
1	B	4037	ASN
1	B	4246	GLN
1	B	5031	GLN
1	D	111	HIS
1	D	224	HIS
1	D	284	HIS
1	D	582	HIS
1	D	921	ASN
1	D	991	ASN
1	D	1296	GLN
1	D	1484	HIS
1	D	1545	ASN
1	D	1563	GLN
1	D	1702	HIS
1	D	1952	GLN
1	D	2036	GLN
1	D	2045	GLN
1	D	2213	ASN
1	D	2260	ASN
1	D	3109	ASN
1	D	3268	HIS
1	D	3325	ASN
1	D	3781	GLN
1	D	4037	ASN
1	D	4246	GLN
1	C	111	HIS
1	C	224	HIS
1	C	284	HIS
1	C	582	HIS
1	C	921	ASN
1	C	991	ASN
1	C	1296	GLN
1	C	1298	HIS
1	C	1484	HIS
1	C	1545	ASN

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Mol	Chain	Res	Type
1	C	1563	GLN
1	C	1702	HIS
1	C	2036	GLN
1	C	2045	GLN
1	C	2213	ASN
1	C	2260	ASN
1	C	3109	ASN
1	C	3268	HIS
1	C	3325	ASN
1	C	3781	GLN
1	C	4037	ASN
1	C	4246	GLN
1	C	5031	GLN

### 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](#)

Of 16 ligands modelled in this entry, 8 are monoatomic - leaving 8 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z  > 2$	Counts	RMSZ	# $ Z  > 2$
6	A1BD2	A	5304	-	16,19,19	0.82	1 (6%)	15,28,28	1.20	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	ATP	B	5301	-	28,33,33	0.87	2 (7%)	34,52,52	0.81	0
6	A1BD2	C	5304	-	16,19,19	0.82	1 (6%)	15,28,28	1.20	1 (6%)
3	ATP	C	5301	-	28,33,33	0.87	2 (7%)	34,52,52	0.81	0
3	ATP	A	5301	-	28,33,33	0.88	2 (7%)	34,52,52	0.81	0
6	A1BD2	B	5304	-	16,19,19	0.82	1 (6%)	15,28,28	1.20	1 (6%)
6	A1BD2	D	5304	-	16,19,19	0.82	0	15,28,28	1.20	1 (6%)
3	ATP	D	5301	-	28,33,33	0.88	2 (7%)	34,52,52	0.82	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	A1BD2	A	5304	-	-	2/4/6/6	0/2/2/2
3	ATP	B	5301	-	-	8/18/38/38	0/3/3/3
6	A1BD2	C	5304	-	-	2/4/6/6	0/2/2/2
3	ATP	C	5301	-	-	8/18/38/38	0/3/3/3
3	ATP	A	5301	-	-	8/18/38/38	0/3/3/3
6	A1BD2	B	5304	-	-	2/4/6/6	0/2/2/2
6	A1BD2	D	5304	-	-	2/4/6/6	0/2/2/2
3	ATP	D	5301	-	-	8/18/38/38	0/3/3/3

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	5301	ATP	C1'-N9	-2.39	1.44	1.49
3	B	5301	ATP	C1'-N9	-2.39	1.44	1.49
3	D	5301	ATP	C1'-N9	-2.39	1.44	1.49
3	C	5301	ATP	C1'-N9	-2.39	1.44	1.49
3	A	5301	ATP	C8-N7	-2.23	1.30	1.34
3	D	5301	ATP	C8-N7	-2.21	1.30	1.34
3	C	5301	ATP	C8-N7	-2.21	1.30	1.34
3	B	5301	ATP	C8-N7	-2.17	1.30	1.34
6	A	5304	A1BD2	C8-N3	-2.02	1.46	1.48
6	B	5304	A1BD2	C8-N3	-2.02	1.46	1.48
6	C	5304	A1BD2	C8-N3	-2.02	1.46	1.48

All (4) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	B	5304	A1BD2	C2-N1-C5	-2.66	119.76	122.22
6	D	5304	A1BD2	C2-N1-C5	-2.66	119.76	122.22
6	C	5304	A1BD2	C2-N1-C5	-2.66	119.76	122.22
6	A	5304	A1BD2	C2-N1-C5	-2.63	119.79	122.22

There are no chirality outliers.

All (40) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	5301	ATP	C5'-O5'-PA-O2A
3	A	5301	ATP	C5'-O5'-PA-O3A
3	A	5301	ATP	C3'-C4'-C5'-O5'
3	B	5301	ATP	C5'-O5'-PA-O2A
3	B	5301	ATP	C5'-O5'-PA-O3A
3	B	5301	ATP	C3'-C4'-C5'-O5'
3	D	5301	ATP	C5'-O5'-PA-O2A
3	D	5301	ATP	C5'-O5'-PA-O3A
3	D	5301	ATP	C3'-C4'-C5'-O5'
3	C	5301	ATP	C5'-O5'-PA-O2A
3	C	5301	ATP	C5'-O5'-PA-O3A
3	C	5301	ATP	C3'-C4'-C5'-O5'
6	A	5304	A1BD2	N3-C8-C9-C10
6	B	5304	A1BD2	N3-C8-C9-C10
6	D	5304	A1BD2	N3-C8-C9-C10
6	C	5304	A1BD2	N3-C8-C9-C10
3	A	5301	ATP	O4'-C4'-C5'-O5'
3	B	5301	ATP	O4'-C4'-C5'-O5'
3	D	5301	ATP	O4'-C4'-C5'-O5'
3	C	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	C4'-C5'-O5'-PA
3	B	5301	ATP	C4'-C5'-O5'-PA
3	D	5301	ATP	C4'-C5'-O5'-PA
3	C	5301	ATP	C4'-C5'-O5'-PA
6	A	5304	A1BD2	N3-C8-C9-O4
6	B	5304	A1BD2	N3-C8-C9-O4
6	D	5304	A1BD2	N3-C8-C9-O4
6	C	5304	A1BD2	N3-C8-C9-O4
3	A	5301	ATP	PB-O3A-PA-O1A
3	B	5301	ATP	PB-O3A-PA-O1A
3	D	5301	ATP	PB-O3A-PA-O1A
3	C	5301	ATP	PB-O3A-PA-O1A
3	A	5301	ATP	C5'-O5'-PA-O1A
3	B	5301	ATP	C5'-O5'-PA-O1A

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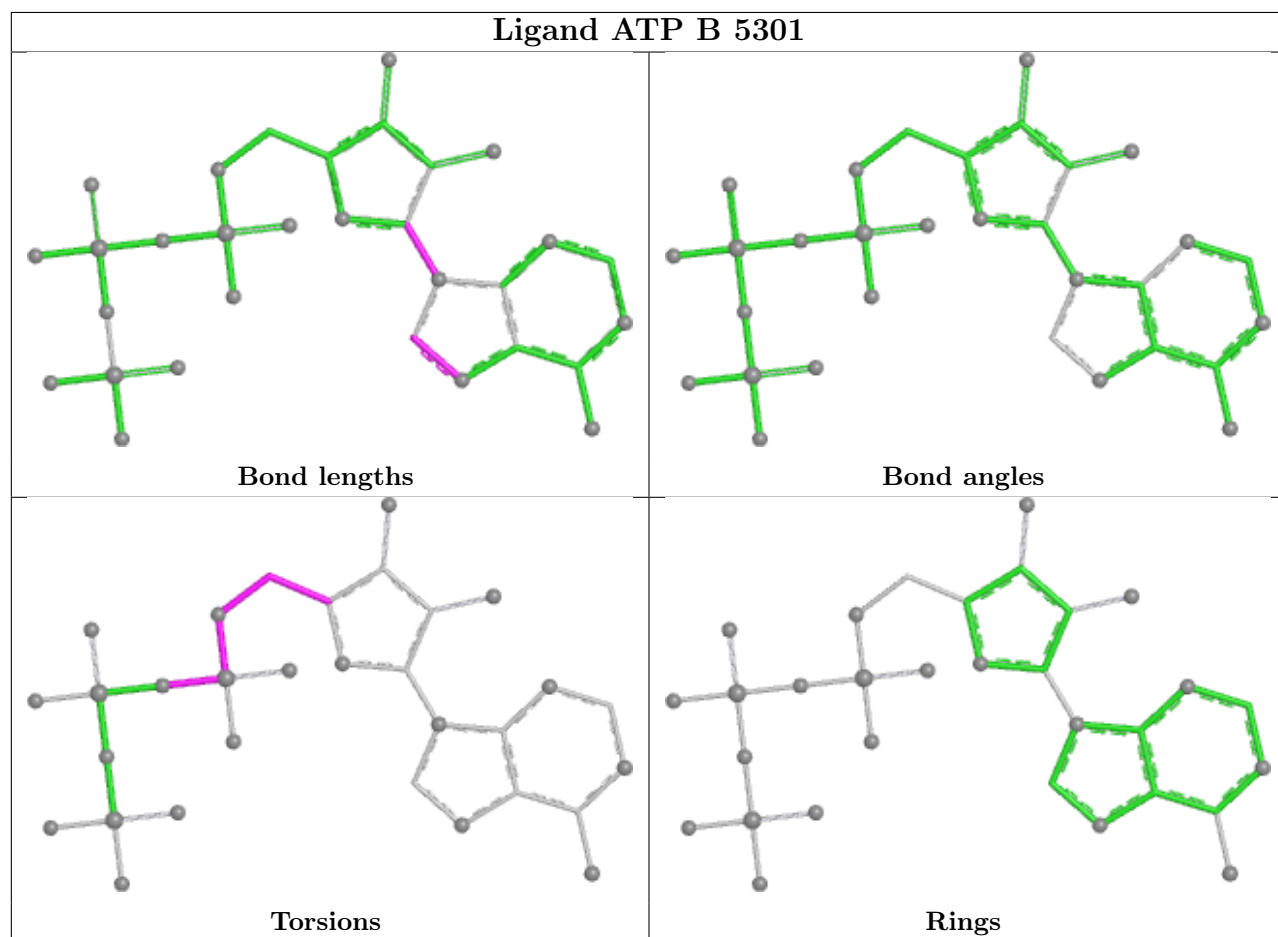
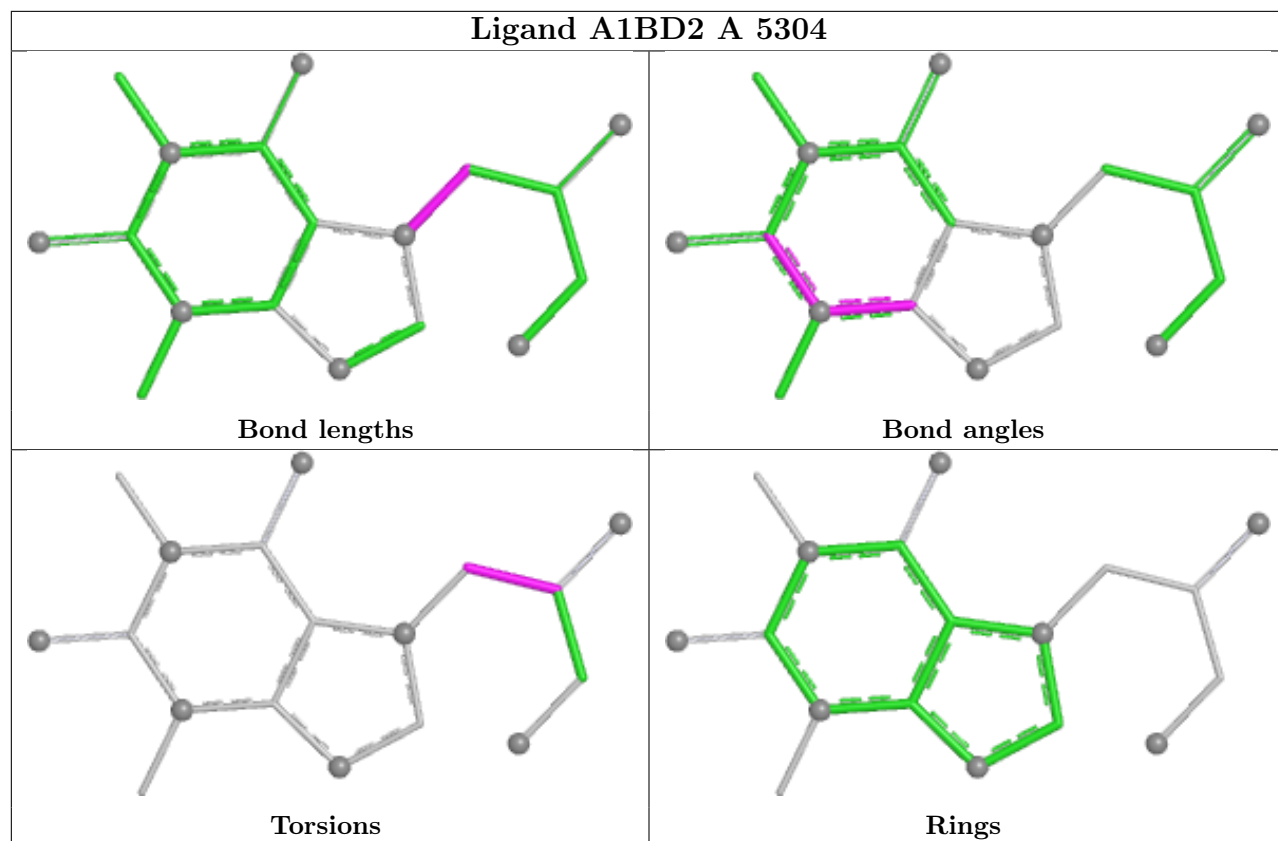
Mol	Chain	Res	Type	Atoms
3	D	5301	ATP	C5'-O5'-PA-O1A
3	C	5301	ATP	C5'-O5'-PA-O1A
3	A	5301	ATP	PB-O3A-PA-O2A
3	B	5301	ATP	PB-O3A-PA-O2A
3	D	5301	ATP	PB-O3A-PA-O2A
3	C	5301	ATP	PB-O3A-PA-O2A

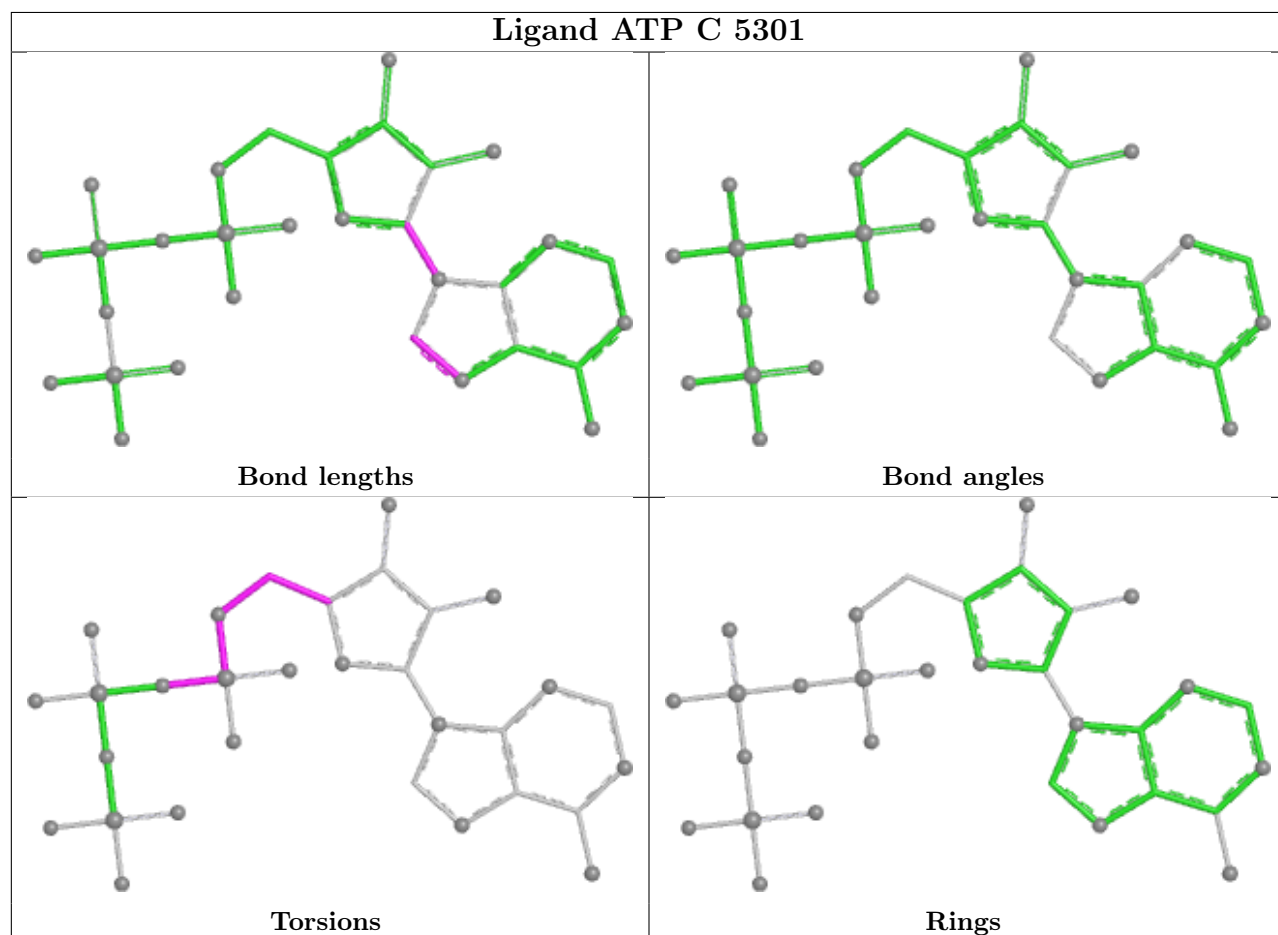
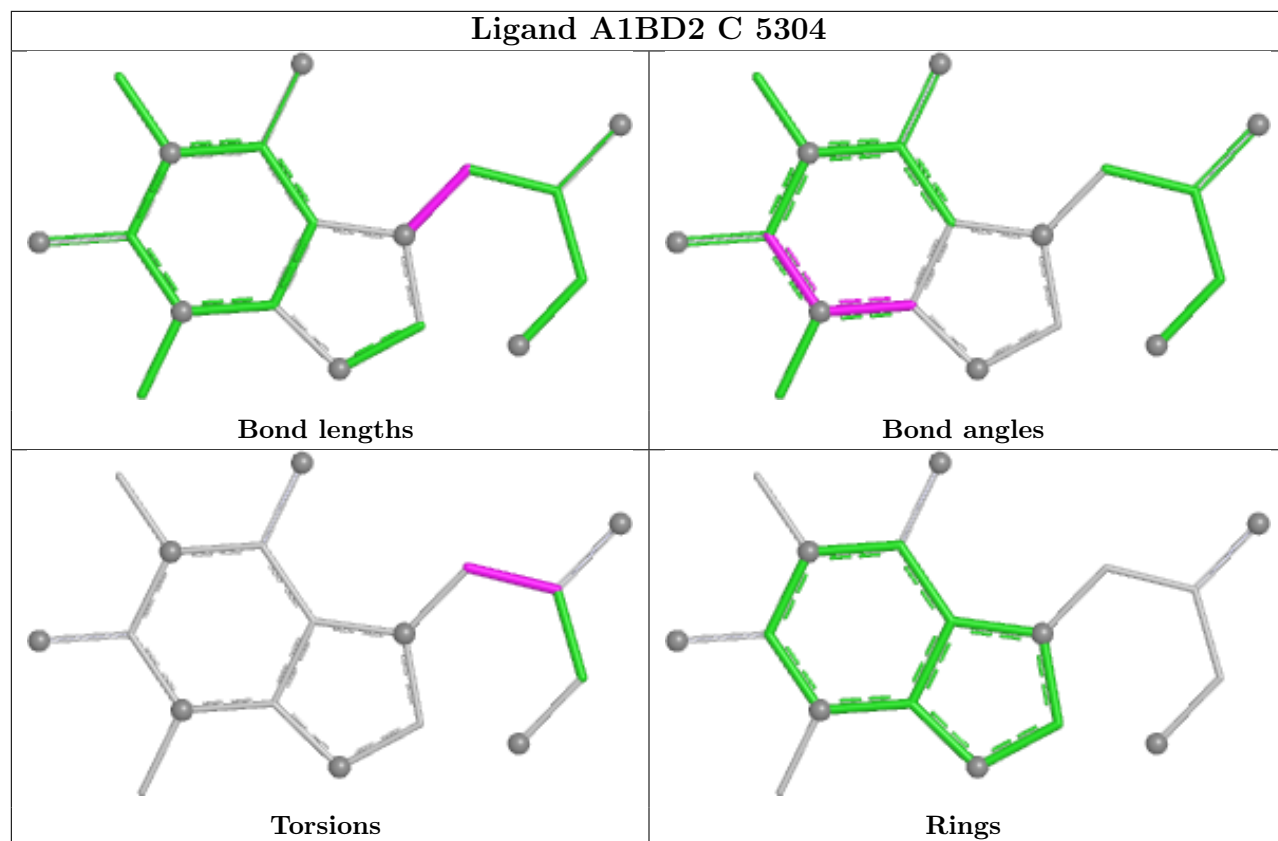
There are no ring outliers.

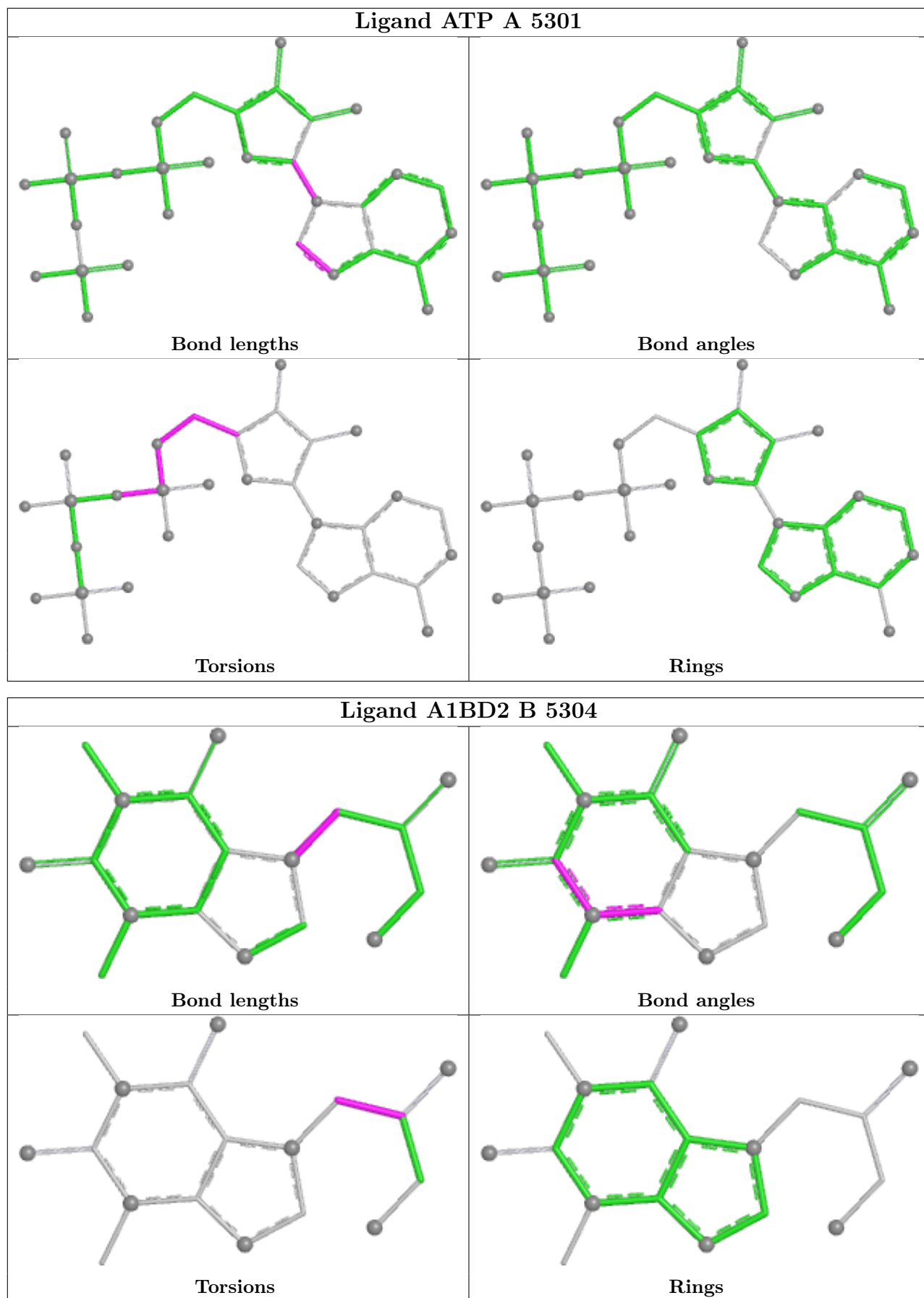
4 monomers are involved in 12 short contacts:

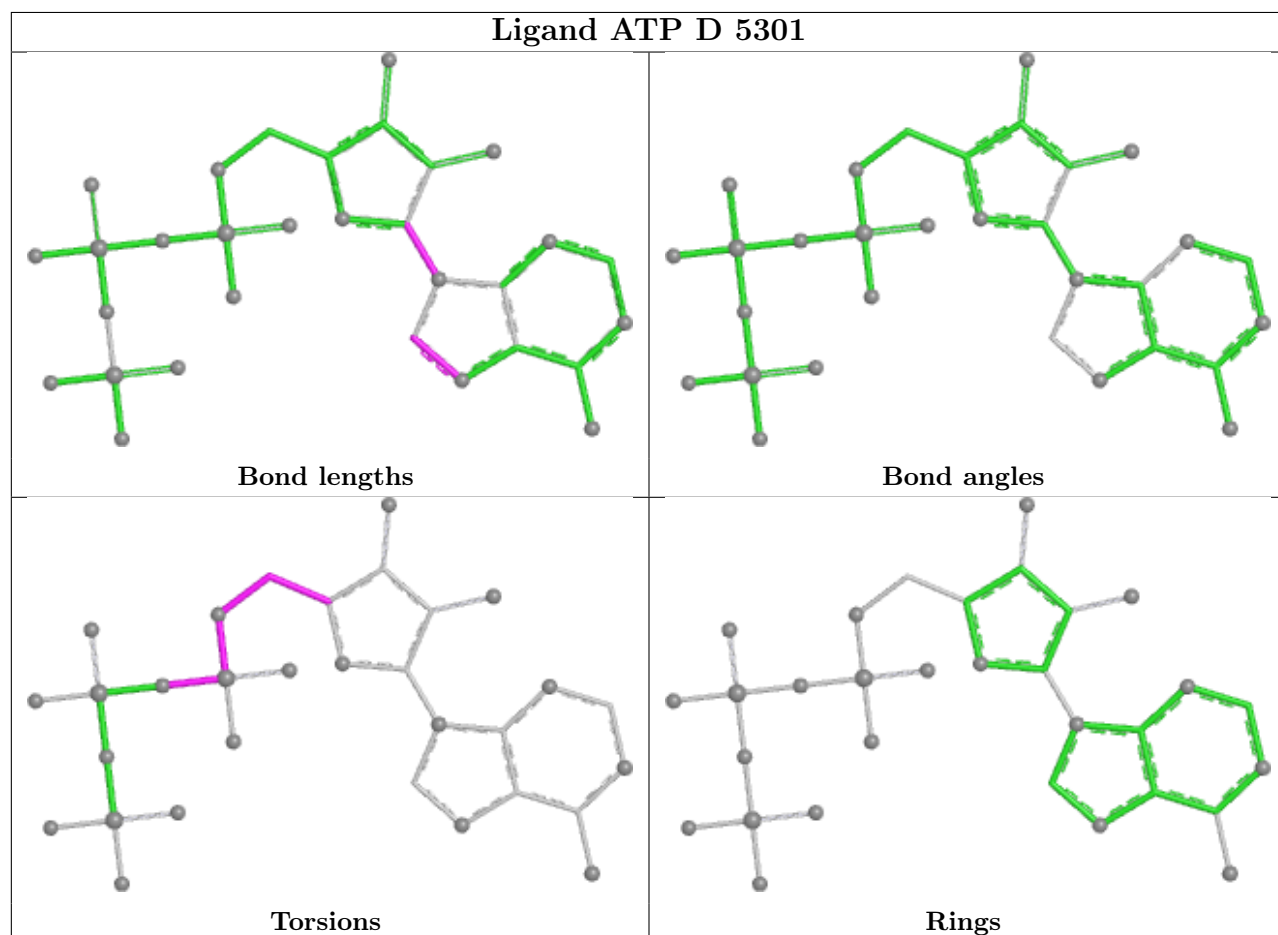
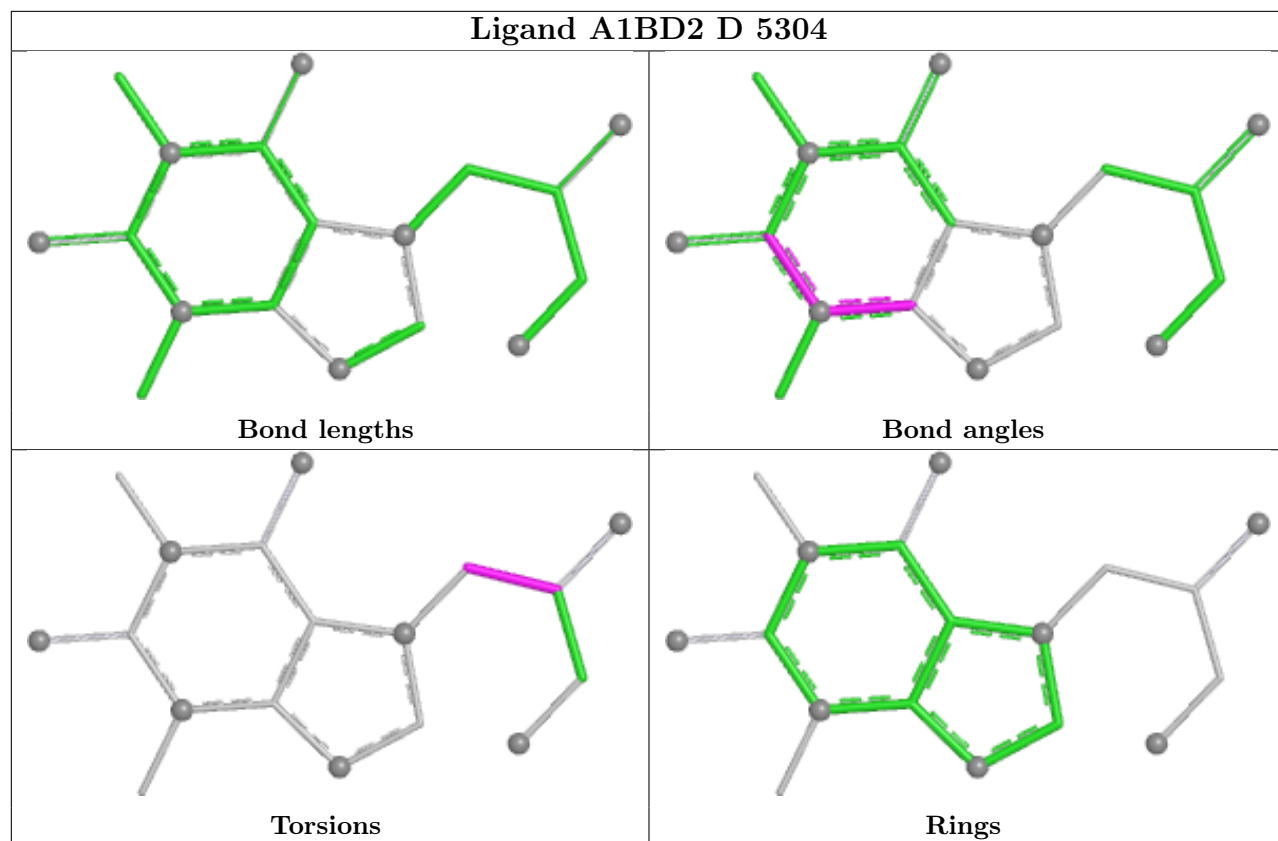
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	5304	A1BD2	3	0
6	C	5304	A1BD2	3	0
6	B	5304	A1BD2	3	0
6	D	5304	A1BD2	3	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.









## 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.



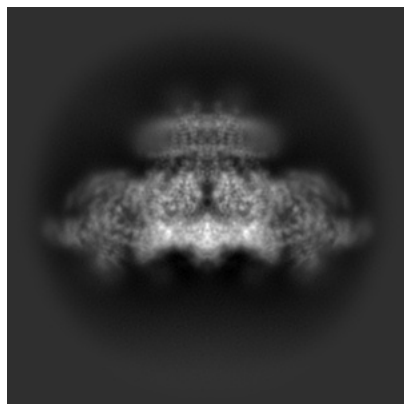
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-47387. These allow visual inspection of the internal detail of the map and identification of artifacts.

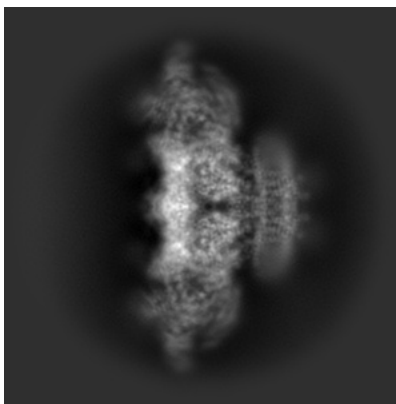
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

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

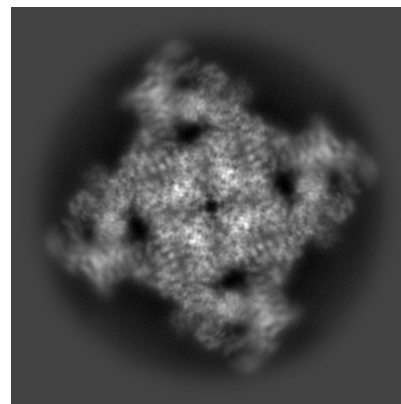
#### 6.1.1 Primary map



X

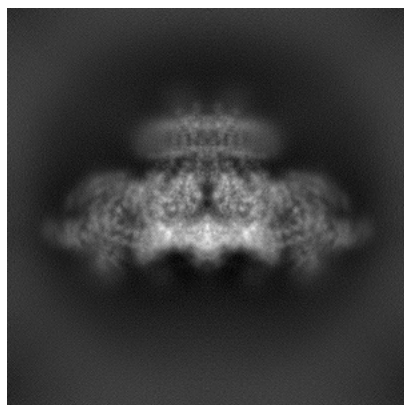


Y

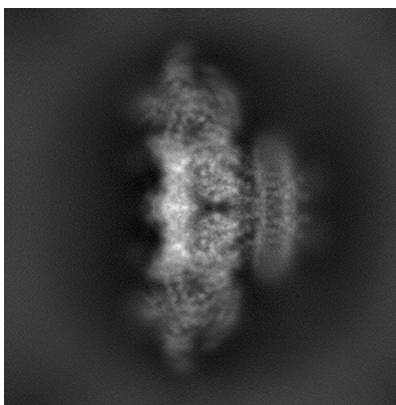


Z

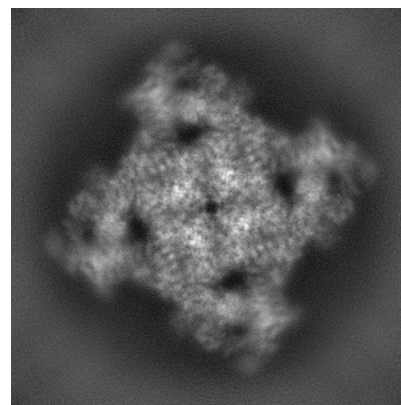
#### 6.1.2 Raw map



X



Y

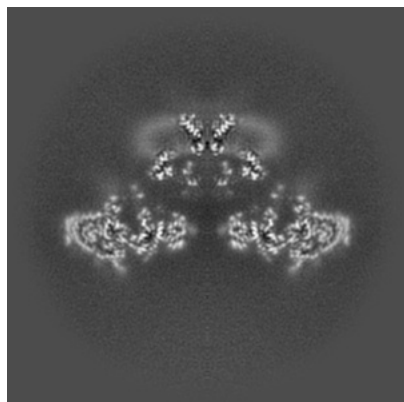


Z

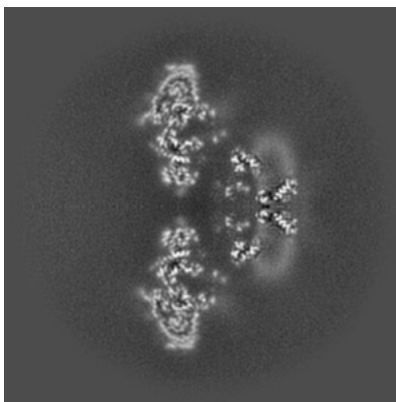
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

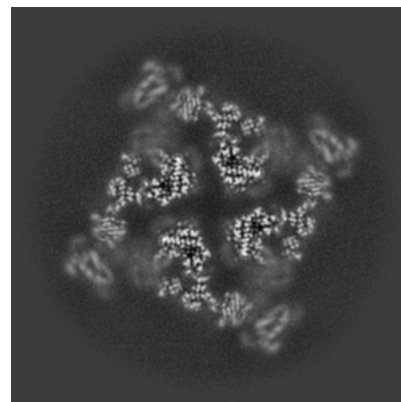
### 6.2.1 Primary map



X Index: 256

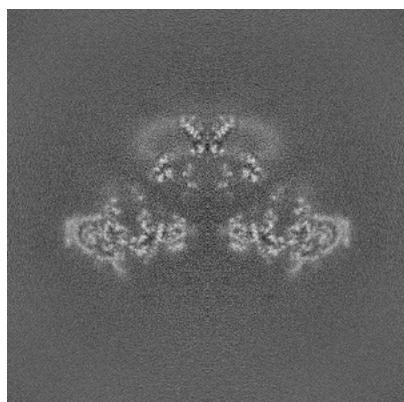


Y Index: 256

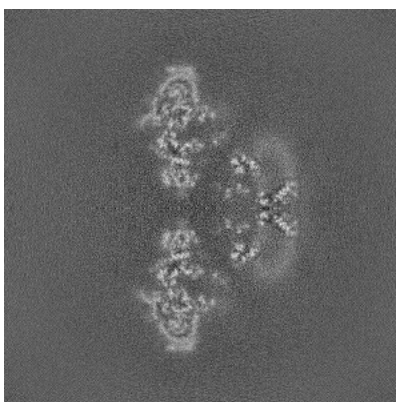


Z Index: 256

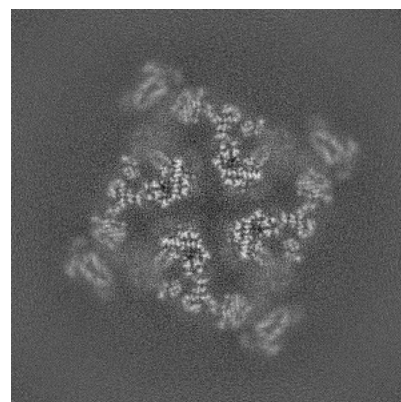
### 6.2.2 Raw map



X Index: 256



Y Index: 256

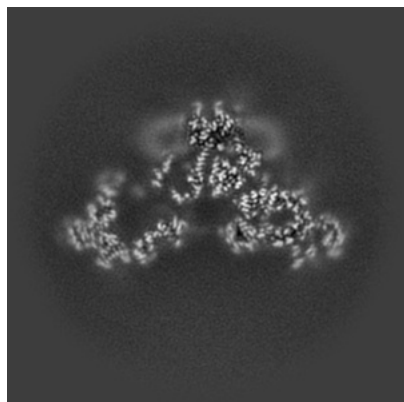


Z Index: 256

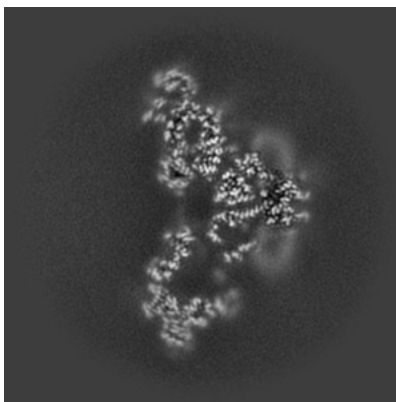
The images above show central slices of the map in three orthogonal directions.

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

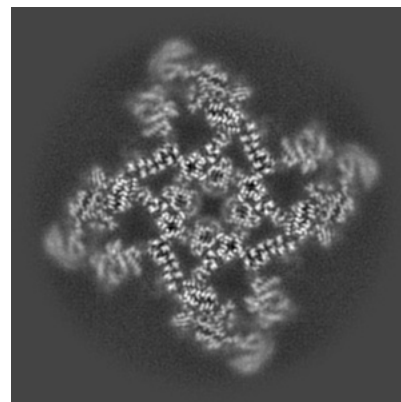
### 6.3.1 Primary map



X Index: 268

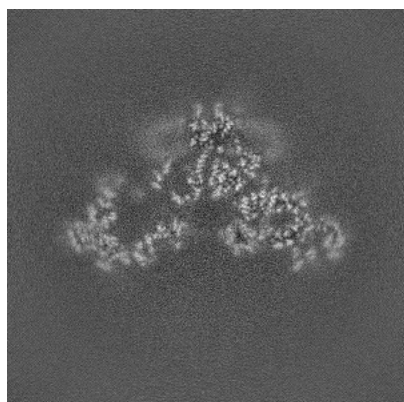


Y Index: 244

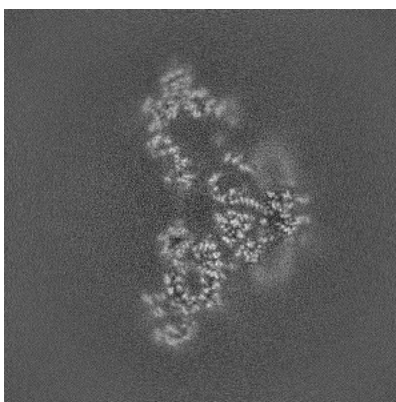


Z Index: 229

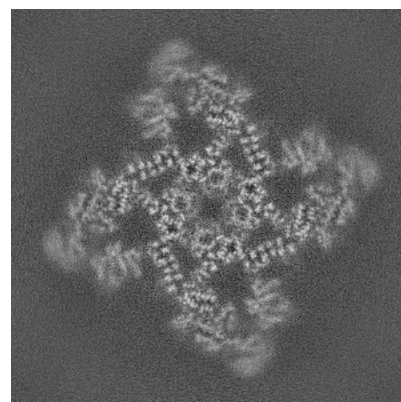
### 6.3.2 Raw map



X Index: 268



Y Index: 268

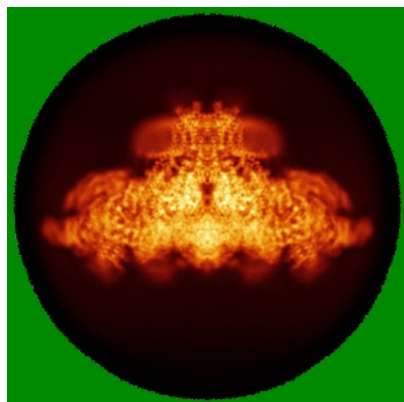


Z Index: 229

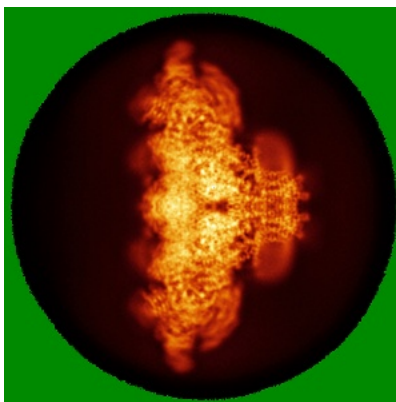
The images above show the largest variance slices of the map in three orthogonal directions.

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

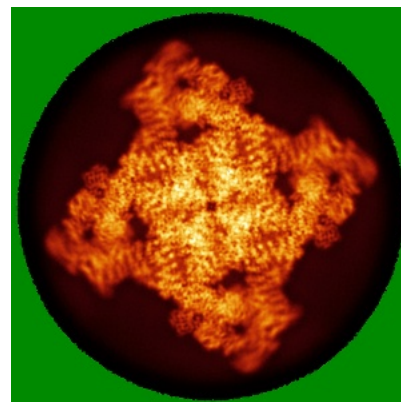
### 6.4.1 Primary map



X

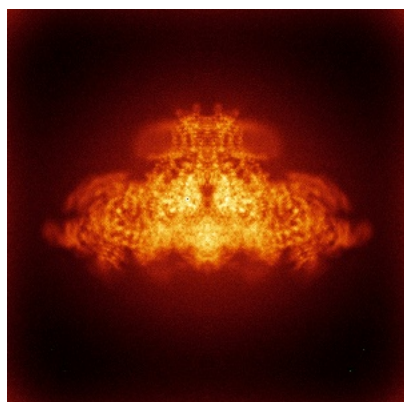


Y

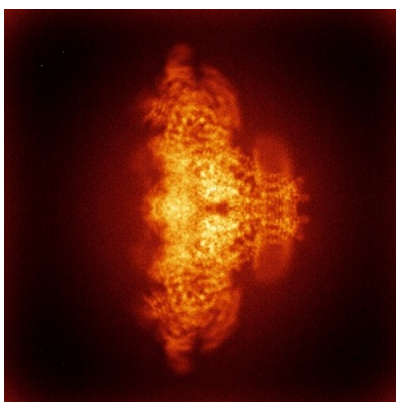


Z

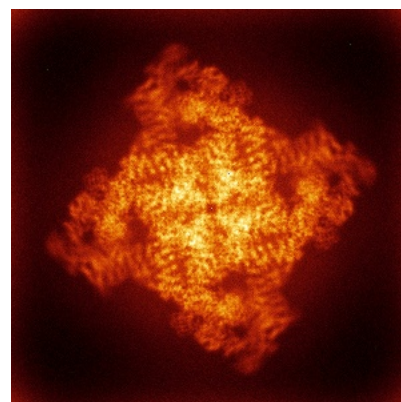
### 6.4.2 Raw map



X



Y



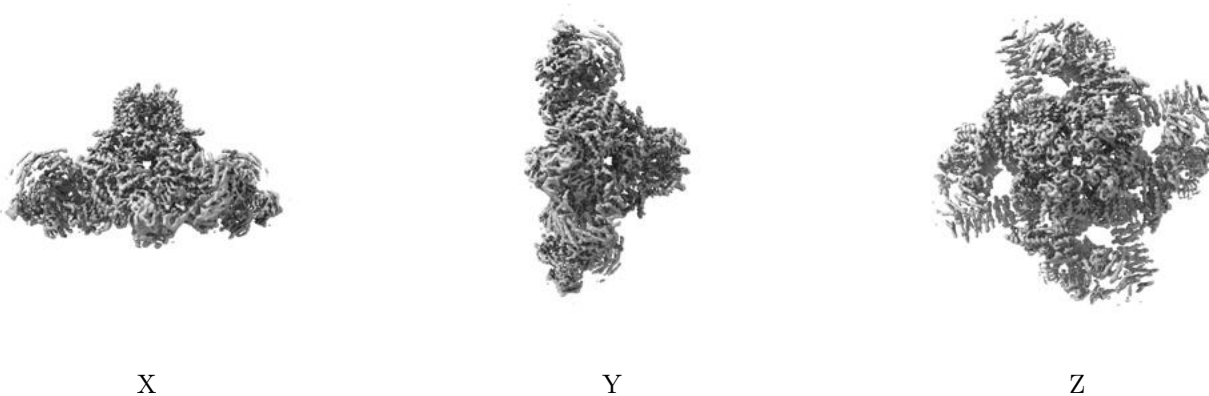
Z

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 0.1. 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.

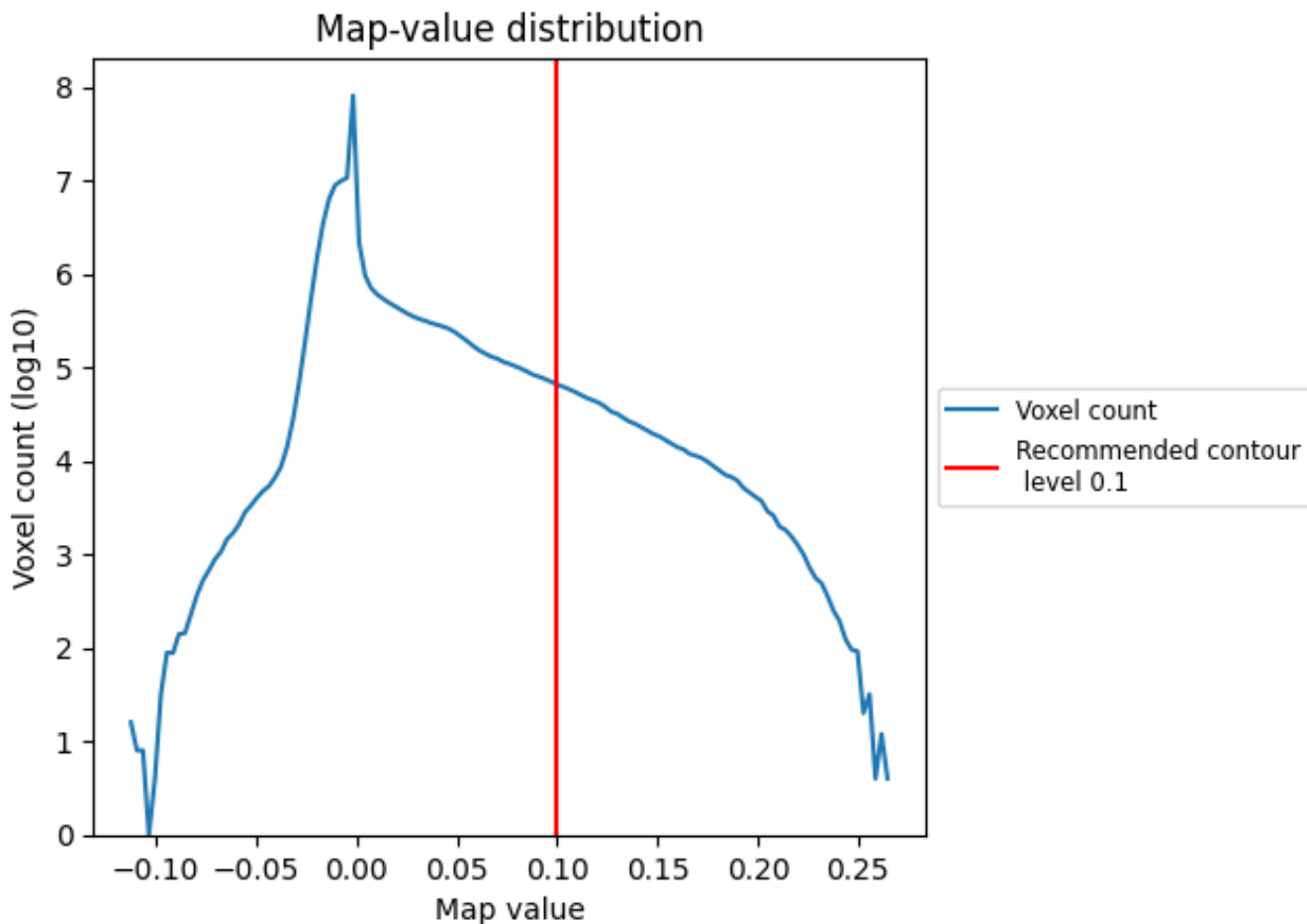
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

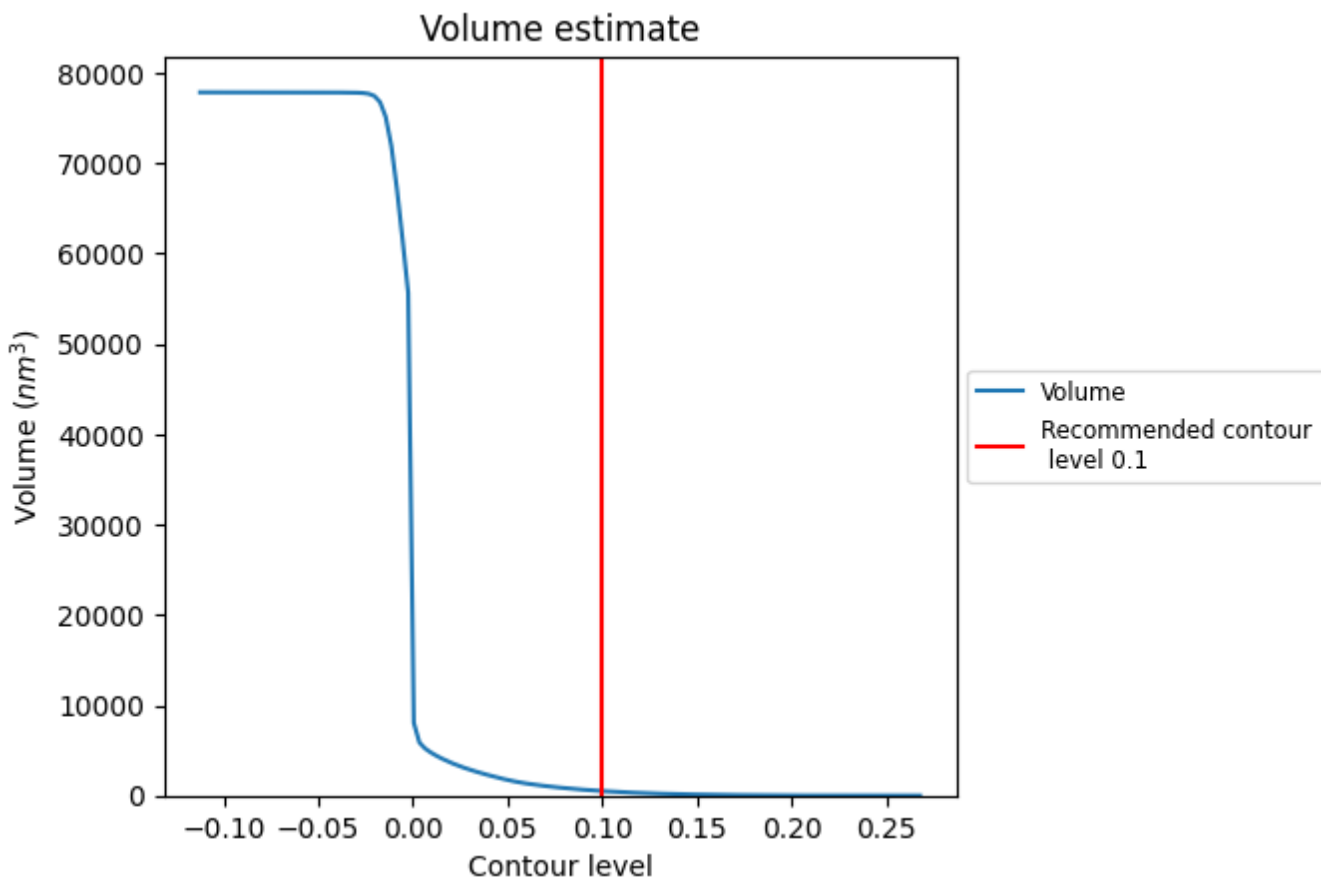
This section contains the results of statistical analysis of the map.

### 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 [\(i\)](#)

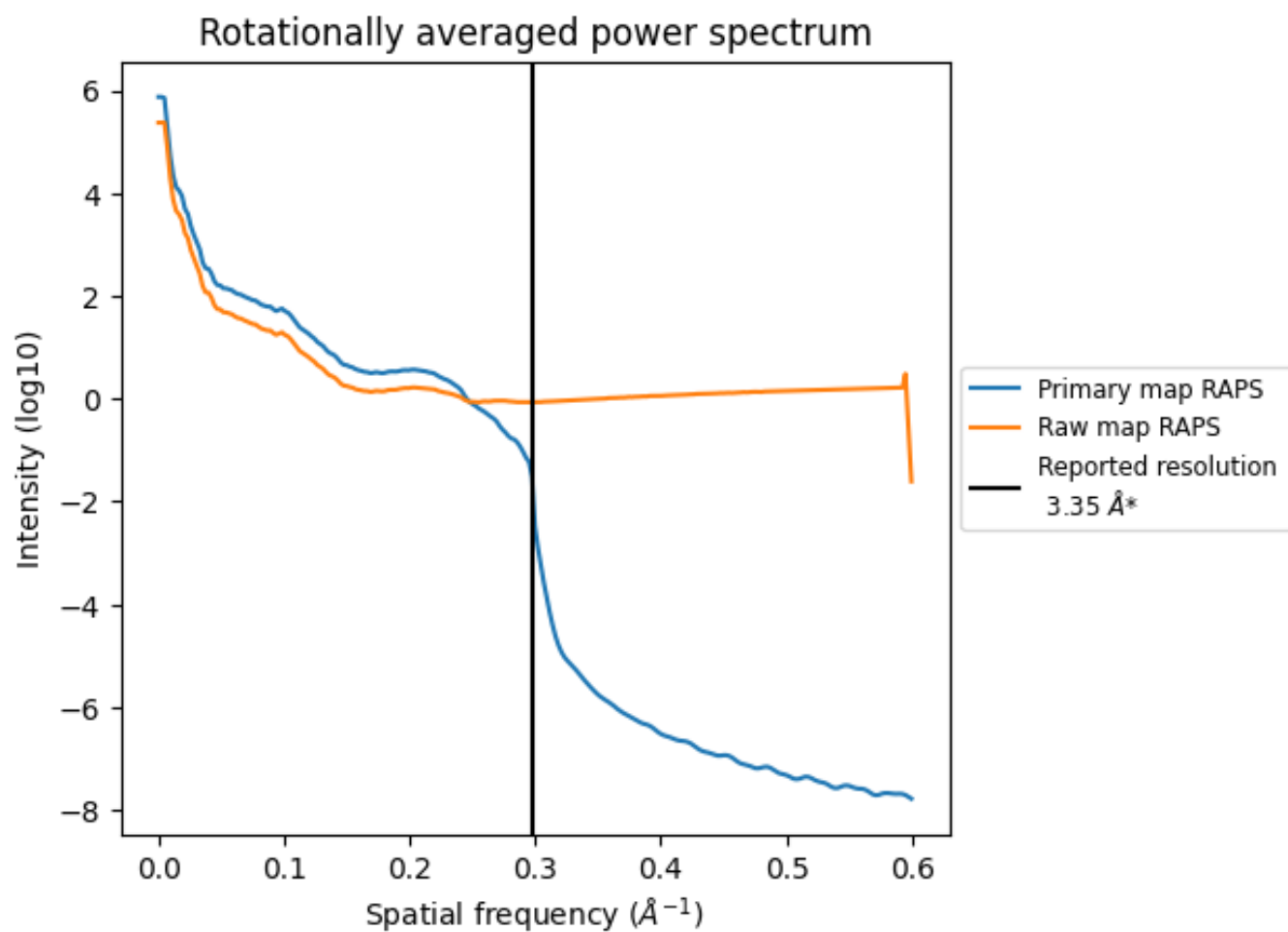


The volume at the recommended contour level is 502 nm<sup>3</sup>; this corresponds to an approximate mass of 453 kDa.

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

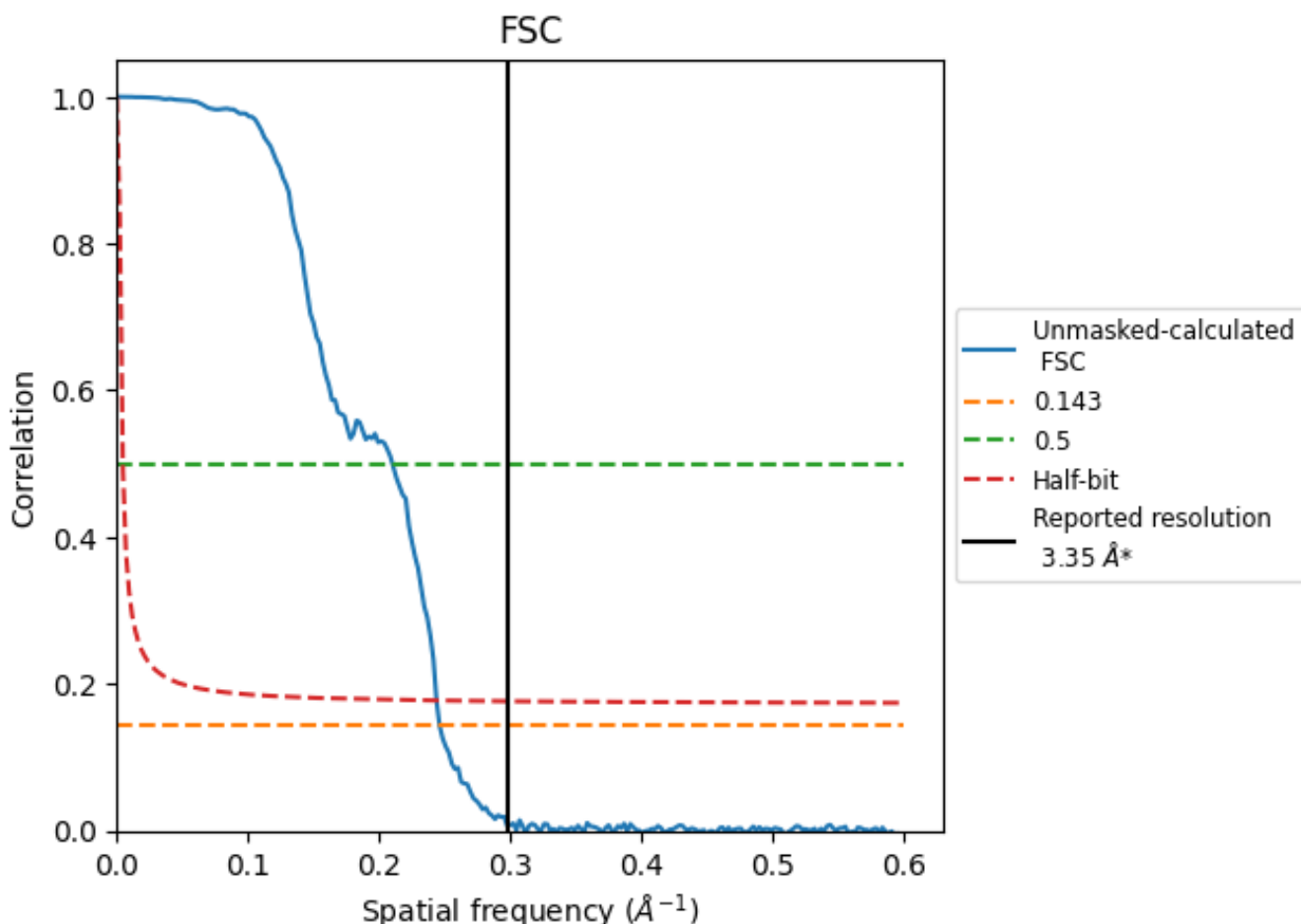


\*Reported resolution corresponds to spatial frequency of 0.299 Å<sup>-1</sup>

## 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 0.299 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

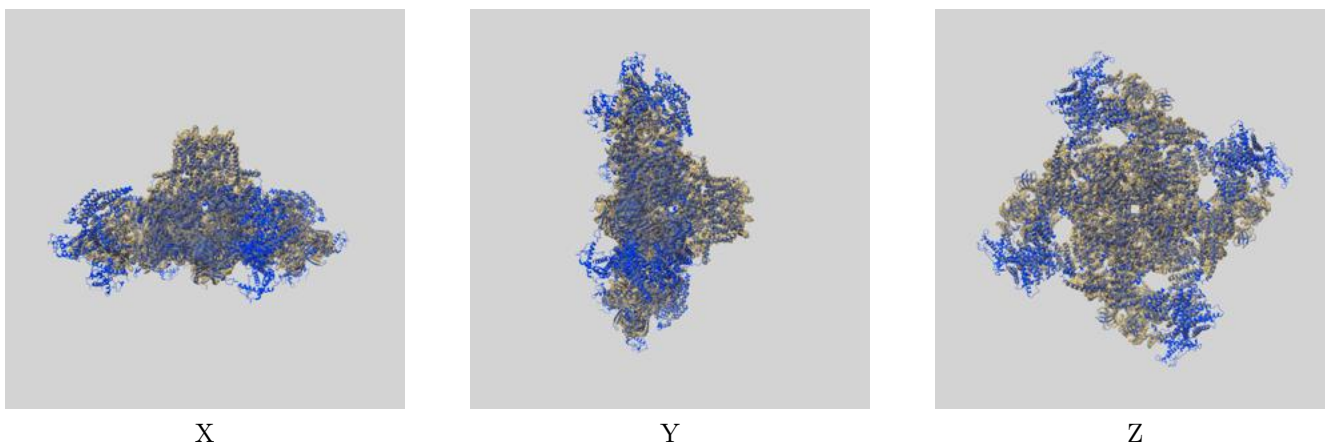
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.35	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	4.07	4.76	4.11

\*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 4.07 differs from the reported value 3.35 by more than 10 %

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

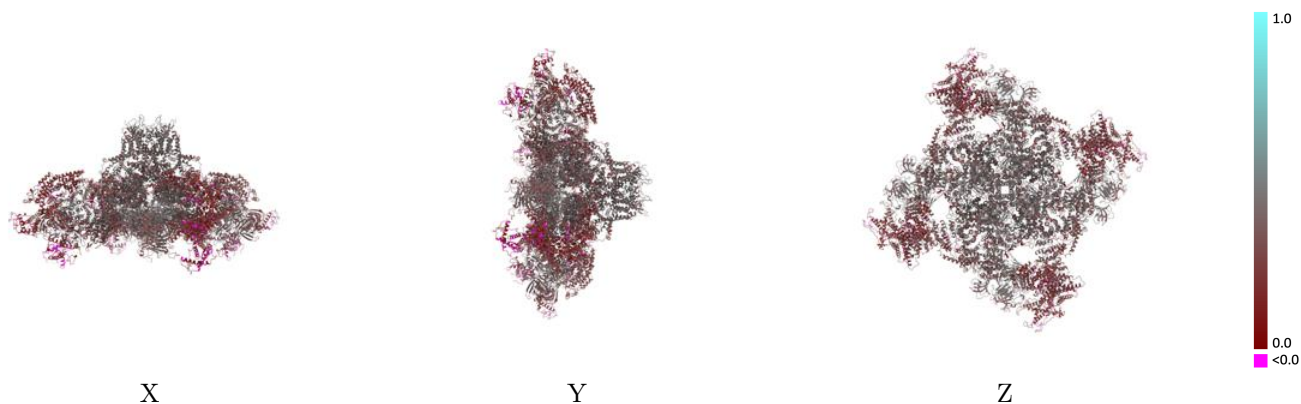
This section contains information regarding the fit between EMDB map EMD-47387 and PDB model 9E1A. Per-residue inclusion information can be found in section 3 on page 6.

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



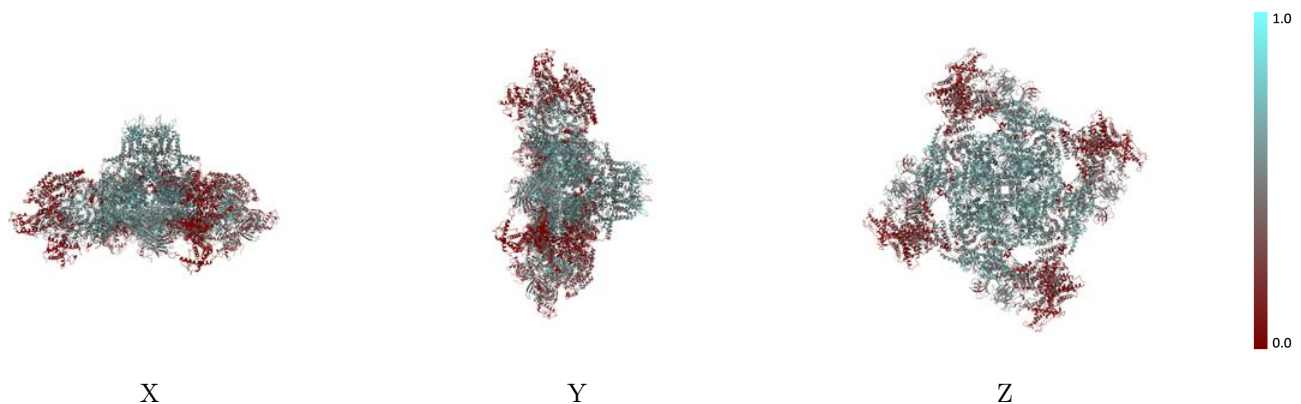
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



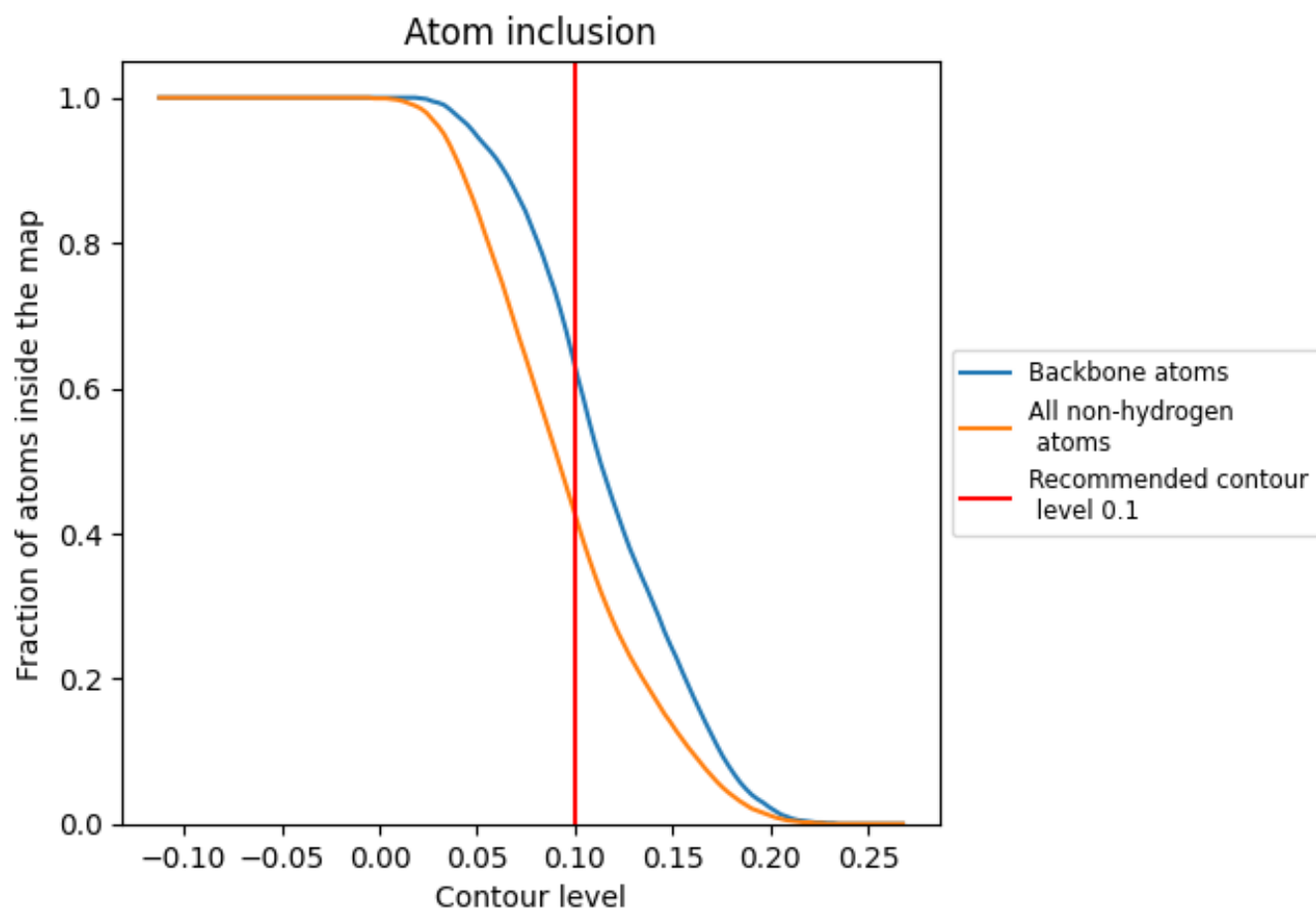
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.1).

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 63% of all backbone atoms, 43% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (0.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.4260	0.3280
A	0.4280	0.3280
B	0.4280	0.3270
C	0.4280	0.3270
D	0.4280	0.3270
E	0.3290	0.3760
F	0.3310	0.3770
G	0.3340	0.3760
H	0.3300	0.3750

