



## Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 04:39 pm GMT

PDB ID : 5LKI  
EMDB ID : EMD-4068  
Title : Cryo-EM structure of the Tc toxin TcdA1 in its pore state  
Authors : Gatsogiannis, C.; Merino, F.; Prumbaum, D.; Roderer, D.; Leidreiter, F.; Meusch, D.; Raunser, S.  
Deposited on : 2016-07-22  
Resolution : 3.46 Å(reported)

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev43  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.2

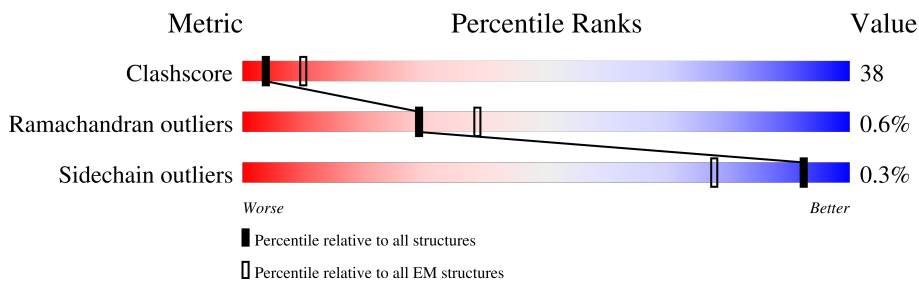
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.46 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	2516	
1	B	2516	
1	C	2516	
1	D	2516	
1	E	2516	

## 2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 55415 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.

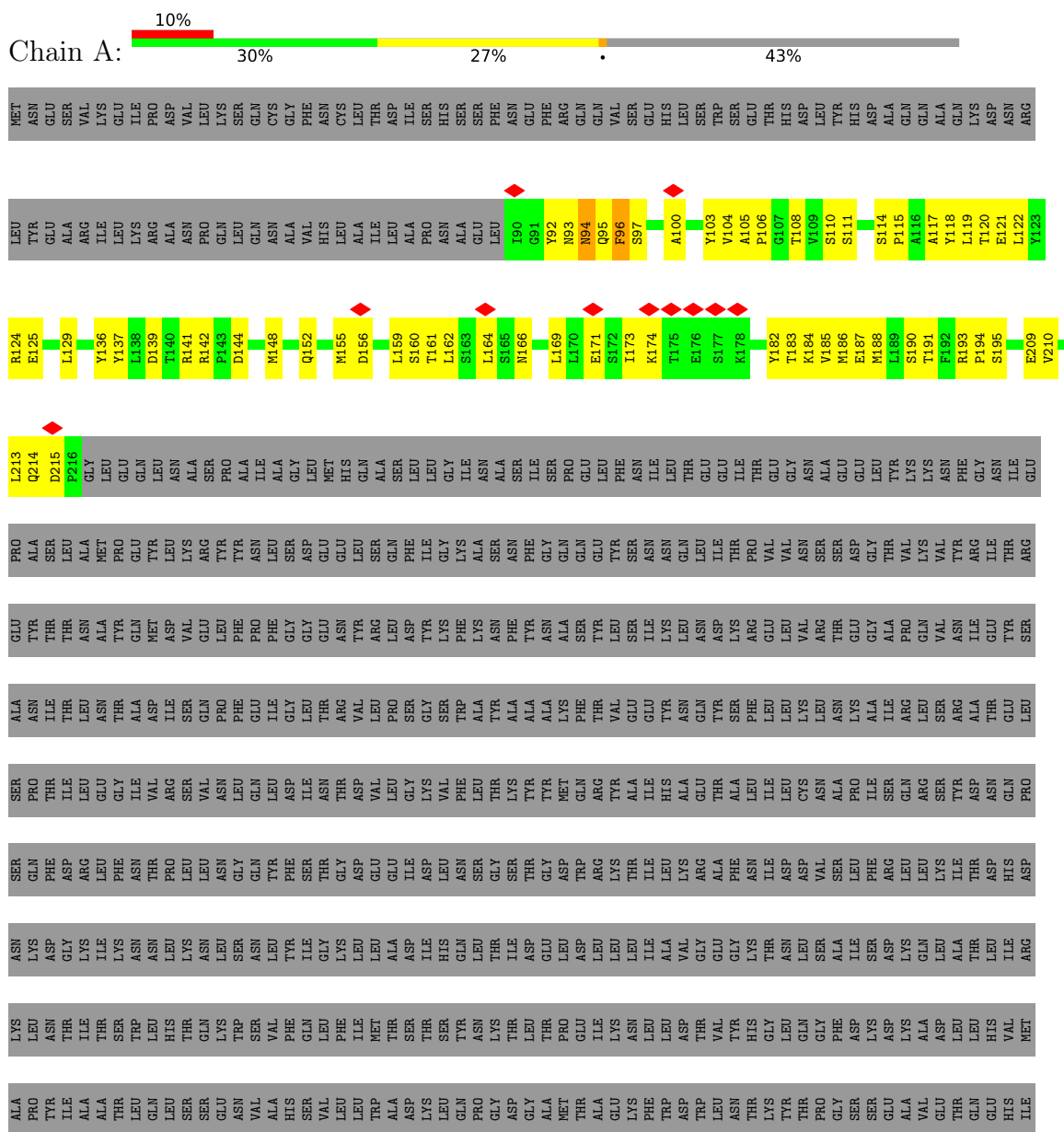
- Molecule 1 is a protein called TcdA1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	1427	Total 11083	7001	1914	2130	38	0	0
1	B	1427	Total 11083	7001	1914	2130	38	0	0
1	C	1427	Total 11083	7001	1914	2130	38	0	0
1	D	1427	Total 11083	7001	1914	2130	38	0	0
1	E	1427	Total 11083	7001	1914	2130	38	0	0

### 3 Residue-property plots

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

#### • Molecule 1: TcdA1













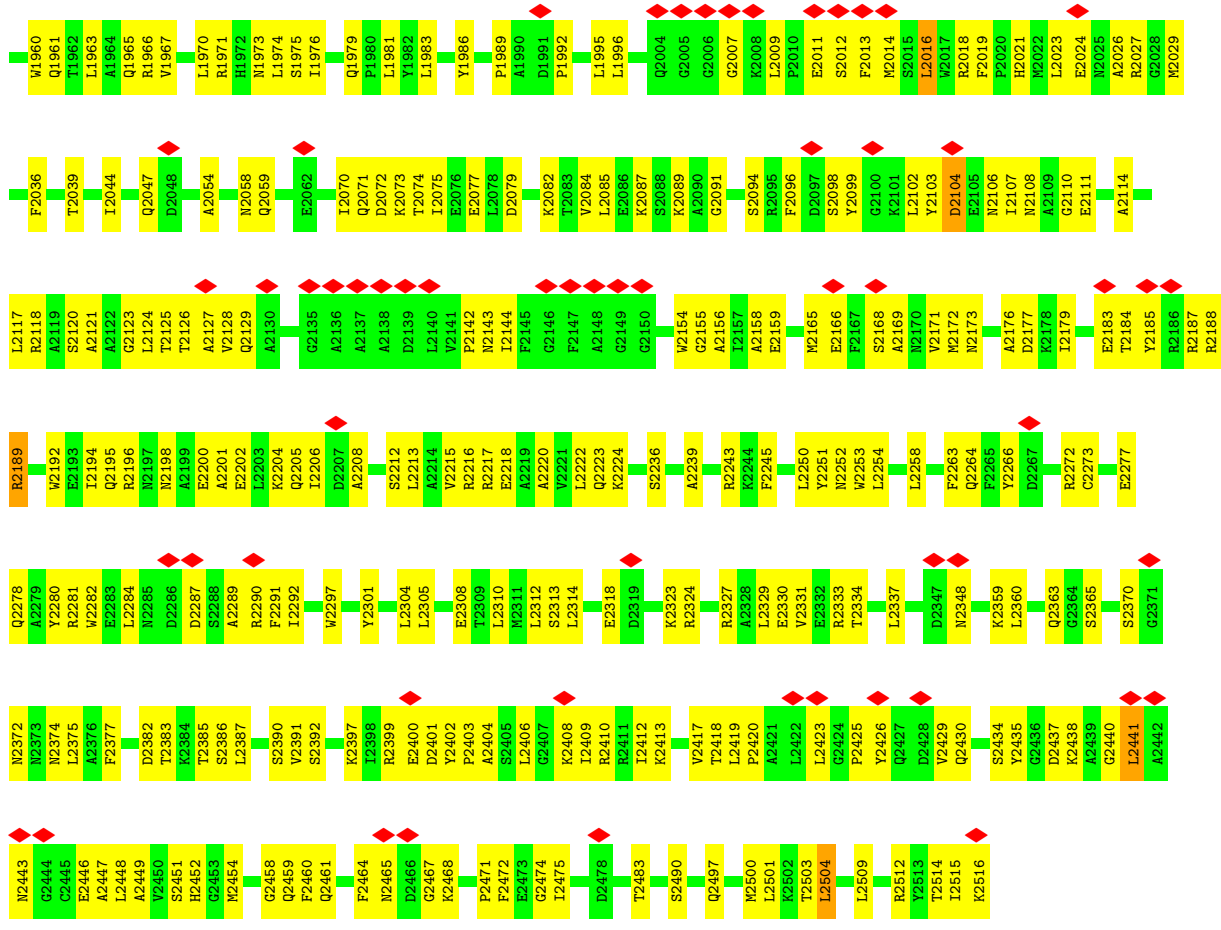




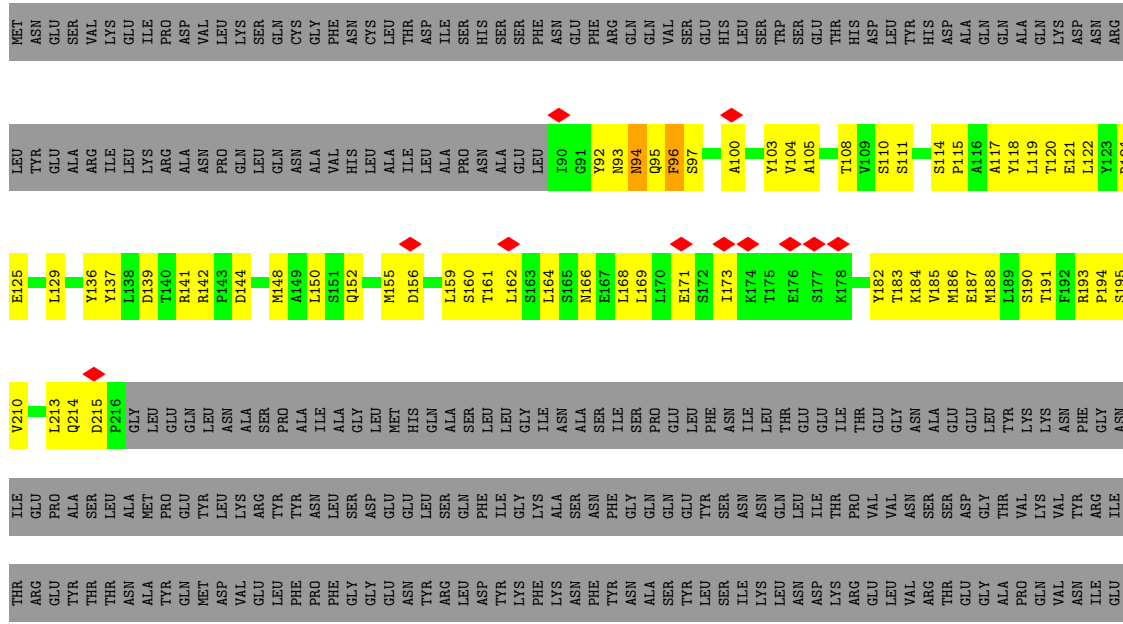
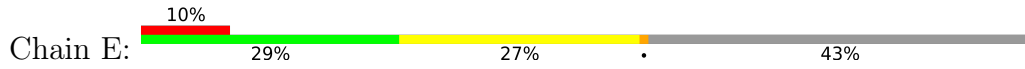
Y2426	Y2427	Q2428	Y2429	Y2430	S2434	Y2435	Q2436	G2437	D2437	K2438	A2439	G2440	L2441	A2442	N2443	G2444	E2445	E2446	A2447	L2448	A2449	V2450	S2451	H2452	G2453	M2454	G2458	Q2459	F2460	Q2461	F2464	N2465	G2467	K2468	P2471	F2472	E2473	G2474	L2475	T2483	S2490	Q2497	M2500	L2501	K2502	T2503	L2504	L2509	R2512																																																																																																																																																																																																																																																																																																																																																					
Y2513	T2514	T2515	K2516	L2254	L2258	F2263	Q2264	F2265	Y2266	R2272	C2273	E2277	Q2278	Y2280	R2281	L2282	F2283	L2284	N2285	D2286	D2287	S2288	A2289	R2290	F2291	T2292	W2297	Y2301	L2304	L2305	E2308	T2309	M2311	L2312	S2313	L2314	E2318	D2319	K2323	R2324	R2327	A2328	L2329	E2330	V2331	E2332	R2333	T2334	L2337	D2347	N2348	K2359	L2360	Q2363	Q2364	S2365	S2370	G2371	N2372	M2374	L2375	A2376	F2377	D2382	T2383	K2384	T2385	S2386	L2387	S2390	V2391	S2392	D2396	K2397	L2398	R2399	E2400	D2401	Y2402	P2403	A2404	S2406	L2406	G2407	K2408	L2409	R2410	R2411	L2412	K2413	V2417	T2418	L2419	P2420	A2421	L2422	L2423	G2424	P2425																																																																																																																																																																																																																																																																																																			
H1588	M1589	E1590	Q1594	Y1595	M1596	Q1597	W1598	Q1599	S1600	Y1601	R1602	T1603	R1604	L1605	M1606	A1610	R1611	Y1614	A1615	R1616	D1622	T1623	L1624	L1625	S1626	T1629	Q1633	E1634	P1635	Q1636	L1637	G1638	K1639	G1640	F1641	Y1642	A1643	T1644	F1645	V1646	P1648	P1649	Y1650	M1651	L1652	S1653	T1654	H1655	G1656	D1657	E1658	R1659	W1660	F1661	K1662	L1663	Y1664	I1665	K1666	H1667	V1668	V1669	D1670	N1671	N1672	S1673	H1674	I1675	L1676	Y1677	Q1680	L1681	T1682	D1683	T1684	N1685	I1686	N1687	I1688	T1689	L1690	F1691	L1692	P1693	M1694	D1695	D1696	VAL	PRO	LEU	ASN	GLN	D1702	Y1703	K1706	V1707	Y1708	M1709	T1710	F1711	K1712	K1713	T1714	H1715	S1716	D1717	G1718	T1719	W1720	W1721	G1722	P1723	H1724	F1725	W1726	R1727	D1728	D1729	K1730	G1731	V1732	V1733	T1734	I1735	M1736	H1737	P1737	K1738	S1739	I1740	L1741	T1742	H1743	F1744	E1745	S1746	V1747	L1750	T1753	F1754	S1755	M1758	D1759	F1760	A1763	E1770	L1771	F1772	Y1773	T1774	T1775	P1776	V1779	R1782	L1783	Q1787	D1790	W1795	Y1798	V1799	T1875	E1878	A1879	K1880	M1881	W1882	Y1883	M1884	Q1885	K1893	P1894	P1897	L1898	S1899	P1905	R1906	L1907	D1908	R1909	A1910	A1911	A1912	D1912	P1913	THR	GLN	ASN	ALA	HIS	ASP	SER	ALA	ILE	VAL	ALA	LEU	ARG	GLN	ASN	ASN	ILE	PRO	THR	PRO	ALA	PRO	LEU	SER	LEU	LEU	ARG	SER	ALA	ASN	THR	LEU	THR	ASP	S1800	S1803	Y1805	I1806	V1807	H1808	G1809	Q1810	Y1814	Q1815	M1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826	W1827	D1830	P1831	L1832	D1833	S1834	Y1835	D1836	P1837	D1838	A1839	V1840	A1841	Q1842	H1843	P1845	M1846	H1847	Y1848	K1849	D1858	L1859	A1862	R1863	G1864	D1865	Y1868	E1872	R1873	D1874	S1804	F1805	L2004	L2005	L2006	L2007	K2008	L2009	P2010	E2011	S2012	F2013	W2014	S2015	W2016	R2018	F2019	P2020	M2021	H2022	L2023	E2024	W2025	E1954	M1957	V1960	I1961	T1962	L1963	A1964	Q1965	R1966	V1967	L1970	H1971	H1972	N1973	L1974	S1975	I1976	D1977	G1978	Q1979	P1980	L1981	Y1982	L1983	Y1986	P1989	A1990	D1991	P1992	L1995	L1996	Q2004	G2005	G2006	G2007	G2008	G2009	S2094	F2095	F2096	D2097	Y2099	S2098	L2100	K2101	L2102	Y2103	D2104	E2105	N2106	L2107	M2108	A2109	G2110	E2111	A2114	L2117	R2118	A2119	S2120	A2121	A2122	G2123	L2124	T2125	T2126	A2127	V2128	Q2129	A2130	S2131	G2135	A2136	A2137	A2138	D2139	L2140	V2141	P2142	N2143	L2144	F2145	G2146	F2147	A2148	G2149	G2150	W2154	G2155	A2156	A2158	E2159	M2165	F2166	S2168	A2169	N2170	V2171	M2173
H1680	F1681	K1682	L1683	Y1684	I1685	K1686	H1687	V1688	V1689	D1670	N1671	N1672	S1673	H1674	I1675	L1676	Y1677	Q1680	L1681	T1682	D1683	T1684	N1685	I1686	N1687	I1688	T1689	L1690	F1691	L1692	P1693	M1694	D1695	D1696	VAL	PRO	LEU	ASN	GLN	D1702	Y1703	K1706	V1707	Y1708	M1709	T1710	F1711	K1712	K1713	T1714	H1715	S1716	D1717	G1718	T1719	W1720	W1721	G1722	P1723	H1724	F1725	W1726	R1727	D1728	D1729	K1730	G1731	V1732	V1733	T1734	I1735	M1736	H1737	P1737	K1738	S1739	I1740	L1741	T1742	H1743	F1744	E1745	S1746	V1747	L1750	T1753	F1754	S1755	M1758	D1759	F1760	A1763	E1770	L1771	F1772	Y1773	T1774	T1775	P1776	V1779	R1782	L1783	Q1787	D1790	W1795	Y1798	V1799	T1875	E1878	A1879	K1880	M1881	W1882	Y1883	M1884	Q1885	K1893	P1894	P1897	L1898	S1899	P1905	R1906	L1907	D1908	R1909	A1910	A1911	A1912	D1912	P1913	THR	GLN	ASN	ALA	HIS	ASP	SER	ALA	ILE	VAL	ALA	LEU	ARG	GLN	ASN	ASN	ILE	PRO	THR	PRO	ALA	PRO	LEU	SER	LEU	LEU	ARG	SER	ALA	ASN	THR	LEU	THR	ASP	S1800	S1803	Y1805	I1806	V1807	H1808	G1809	Q1810	Y1814	Q1815	M1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826	W1827	D1830	P1831	L1832	D1833	S1834	Y1835	D1836	P1837	D1838	A1839	V1840	A1841	Q1842	H1843	P1845	M1846	H1847	Y1848	K1849	D1858	L1859	A1862	R1863	G1864	D1865	Y1868	E1872	R1873	D1874	S1804	F1805	L2004	L2005	L2006	L2007	K2008	L2009	P2010	E2011	S2012	F2013	W2014	S2015	W2016	R2018	F2019	P2020	M2021	H2022	L2023	E2024	W2025	E1954	M1957	V1960	I1961	T1962	L1963	A1964	Q1965	R1966	V1967	L1970	H1971	H1972	N1973	L1974	S1975	I1976	D1977	G1978	Q1979	P1980	L1981	Y1982	L1983	Y1986	P1989	A1990	D1991	P1992	L1995	L1996	Q2004	G2005	G2006	G2007	G2008	G2009	S2094	F2095	F2096	D2097	Y2099	S2098	L2100	K2101	L2102	Y2103	D2104	E2105	N2106	L2107	M2108	A2109	G2110	E2111	A2114	L2117	R2118	A2119	S2120	A2121	A2122	G2123	L2124	T2125	T2126	A2127	V2128	Q2129	A2130	S2131	G2135	A2136	A2137	A2138	D2139	L2140	V2141	P2142	N2143	L2144	F2145	G2146	F2147	A2148	G2149	G2150	W2154	G2155	A2156	A2158	E2159	M2165	F2166	S2168	A2169	N2170	V2171	M2173																																																					







• Molecule 1: TcdA1





ALA	LEU	GLU	ILE	LYS	ASP	THR	GLY	THR	ALA	VAL	ASP	GLY	PRO	GLY	VAL	ASN	VAL	GLN	ILE	ALA	THR	ILE	ASP	ALA	THR	ASP	VAL	ILE	GLN	PRO	PRO	SER	SER	PRO	SER	PHE	ASP	GLU	ASP	MET	ASN	ASN	TYR	GLN	PHE	ASN	ALA	LEU	GLU	TYR	GLY	GLY	LYS	GLU	GLU	GLN	GLN	PHE	SER	THR	THR	THR	ALA	VAL	THR	LYS	ASP	VAL	VAL	SER	T1580	D1581	N1582	A1583	L1584	T1585	L1586	H1587	H1588	Q1589	Y1595	M1596	Q1597	W1599	Q1599	S1600	Y1601	R1602	T1603	R1604	L1605	M1606	A1610	Y1614	A1615	R1616	D1622	T1623	I1624	L1625	S1626	T1629	Q1633	E1634	P1635	Q1636	V1637	G1638	K1639	G1640	F1641	Y1642	A1643	T1644	F1645	D1702	Y1703	K1706	Y1707	M1708	M1709	F1710	F1711	K1712	K1713	S1714	P1715	D1716	E1717	G1718	G1718	T1719	W1720	L1721	Y1722	P1723	H1724	F1725	R1727	D1728	D1729	K1730	G1731	I1732	V1733	I1734	I1735	M1736	P1737	K1738	S1739	I1740	L1741	T1742	H1743	F1744	E1745	N1746	V1747	L1750	I1753	S1754	S1755	M1758	D1759	F1760	A1763	E1770	L1771	F1772	Y1773	Y1774	T1775	P1776	M1777	L1778	V1779	R1782	L1783	E1786	Q1787	D1790	W1795	Y1798	W1799	W1800	S1803	G1804	Y1805	I1806	V1807	H1808	M1809	Q1810	Y1814	Q1815	W1816	M1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826	D1830	P1831	L1832	D1833	S1834	V1835	D1836	P1837	D1838	A1839	V1840	A1841	Q1842	H1843	D1844	P1845	M1846	H1847	Y1848	K1849	T1852	L1857	D1858	L1859	A1862	R1863	G1864	D1865	Y1868	E1872	R1873	D1874	T1875	E1878	K1880	M1881	W1882	Y1883	M1884	Q1885	L1889	K1893	P1894	P1897	L1898	S1899	S1903	D1904	P1905	R1906	L1907	D1908	A1910	A1911	D1912	I1913	THR	GLN	ASN	ALA	HIS	ASP	SER	ALA	ILE	VAL	ALA	LEU	ARG	GLN	ASN	ILE	PRO	THR	THR	ALA	LEU	SER	F2004	G2005	G2006	G2007	K2008	L2009	P2010	E2011	S2012	F2013	M2014	S2015	L2016	W2017	R2018	F2019	P2020	H2021	W2022	L2023	N2024	A2026	R2027	M2029	F2036	T2039	I2044	Q2047	D2048	A2054	N2058	Q2059	E2062	I2070	Q2071	D2072	K2073	T2074	I2075	E2076	E2077	L2078	D2079	K2082	T2083	V2084	L2085	K2087	S2088	K2089	A2090	G2091	S2094	R2095	F2096	D2097	S2098	Y2099	G2100	K2101	L2102	Y2103	D2104	R2105	N2106	I2107	N2108	A2109	G2110	E2111	A2114	L2117	R2118	A2119	A2121	A2122	G2123	L2124	Q2125	T2126	A2127	W2128	Q2129	A2130	S2131	G2135	A2136	A2137	A2138	D2139	L2140	V2141	F2142	N2143	L2144	F2145	G2146	F2147	A2148	G2149	G2150	W2154	G2155	A2156	L2157	A2158	E2159	M2165	E2166	F2167	S2168	A2169	W2170	M2171	E2172	N2173	A2176	D2177	W2178	Q2179	E2180	S2182	C2183	T2184	Y2185	R2186	R2187	R2188	R2189	W2192	E2193	L2194	Q2195	R2196	W2197	N2198	V2199	E2200	A2201	E2202	L2203	K2204	Q2205	L2206	D2207	A2208	S2212	L2213	A2214	V2215	R2216	R2217	E2218	A2219	A2220	V2221	Q2222	Q2223	K2224	S2236	A2239	R2243	W2244	F2245	N2252	W2253	L2254	L2258	F2263	Q2264	F2266	R2272	C2273	E2277	Q2278	Q2279	R2280	R2281	W2282	E2283	L2284	N2285	D2286	D2287	S2288	A2289	R2290	R2291	I2292	K2293	P2294	G2295	A2296	W2297	Y2301	L2305	E2308	L2310	M2311	L2312	R2313	S2313	S2314	E2318	K2323	R2324	R2327	A2328	L2329	E2330	V2331	E2332	R2333	T2334	L2337	D2347	N2348	D2358	K2359	L2360	Y2361	S2362	Q2363	G2364	S2365	S2370	G2371	N2372	M2373	L2374	L2375	A2376	F2377	D2382	T2383	K2384	T2385	S2386	L2387	S2390	V2391	S2392	K2397	L2398	R2399	E2400	D2401	Y2402	P2403	A2404	S2405	L2406	S2407	K2408	I2409	R2410	L2412	K2413	V2417	T2418	L2419	P2420	L2423	G2424	P2425	Y2426	Q2427	D2428	V2429	Q2430
THR	ASP	LEU	GLU	LYS	ASP	THR	GLY	THR	ALA	VAL	ASP	GLY	PRO	GLY	VAL	ASN	VAL	GLN	ILE	ALA	THR	ILE	ASP	ALA	THR	ASP	VAL	ILE	GLN	PRO	PRO	SER	SER	PRO	SER	PHE	ASP	GLU	ASP	MET	ASN	ASN	TYR	GLN	PHE	ASN	ALA	LEU	GLU	TYR	GLY	GLY	LYS	GLU	GLU	GLN	GLN	PHE	SER	THR	THR	THR	ALA	VAL	THR	LYS	ASP	VAL	VAL	SER	T1580	D1581	N1582	A1583	L1584	T1585	L1586	H1587	H1588	Q1589	Y1595	M1596	Q1597	W1599	Q1599	S1600	Y1601	R1602	T1603	R1604	L1605	M1606	A1610	Y1614	A1615	R1616	D1622	T1623	I1624	L1625	S1626	T1629	Q1633	E1634	P1635	Q1636	V1637	G1638	K1639	G1640	F1641	Y1642	A1643	T1644	F1645	D1702	Y1703	K1706	Y1707	M1708	M1709	F1710	F1711	K1712	K1713	S1714	P1715	D1716	E1717	G1718	G1718	T1719	W1720	L1721	Y1722	P1723	H1724	F1725	R1727	D1728	D1729	K1730	G1731	I1732	V1733	I1734	I1735	M1736	P1737	K1738	S1739	I1740	L1741	T1742	H1743	F1744	E1745	N1746	V1747	L1750	I1753	S1754	S1755	M1758	D1759	F1760	A1763	E1770	L1771	F1772	Y1773	Y1774	T1775	P1776	M1777	L1778	V1779	R1782	L1783	E1786	Q1787	D1790	W1795	Y1798	W1799	W1800	S1803	G1804	Y1805	I1806	V1807	H1808	M1809	Q1810	Y1814	Q1815	W1816	M1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826	D1830	P1831	L1832	D1833	S1834	V1835	D1836	P1837	D1838	A1839	V1840	A1841	Q1842	H1843	D1844	P1845	M1846	H1847	Y1848	K1849	T1852	L1857	D1858	L1859	A1862	R1863	G1864	D1865	Y1868	E1872	R1873	D1874	T1875	E1878	K1880	M1881	W1882	Y1883	M1884	Q1885	L1889	K1893	P1894	P1897	L1898	S1899	S1903	D1904	P1905	R1906																																																																																																																																																																																																																																																																																																										



S2434	T2435	D2437	K2438	A2439	G2440	L2441	A2442	N2443	G2444	C2445	E2446	A2447	L2448	A2449	T2450	S2451	H2452	G2453	N2454	G2458	Q2459	F2460	D2461	F2464	N2465	G2466	G2467	K2468	F2471	F2472	E2473	G2474	I2475	T2483	S2490	Q2497	N2500	L2501	K2502	T2503	L2504	L2509	R2512	T2513	T2514	I2515	K2516
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## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C5	Depositor
Number of particles used	13000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	15.4	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	59000	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	29.239	Depositor
Minimum map value	-15.199	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	6.75	Depositor
Map size ( $\text{\AA}$ )	442.74002, 442.74002, 442.74002	wwPDB
Map dimensions	282, 282, 282	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.57, 1.57, 1.57	Depositor

## 5 Model quality i

### 5.1 Standard geometry i

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.66	1/11313 (0.0%)	0.65	4/15367 (0.0%)
1	B	0.66	1/11313 (0.0%)	0.65	3/15367 (0.0%)
1	C	0.66	1/11313 (0.0%)	0.65	5/15367 (0.0%)
1	D	0.66	1/11313 (0.0%)	0.65	4/15367 (0.0%)
1	E	0.66	1/11313 (0.0%)	0.65	3/15367 (0.0%)
All	All	0.66	5/56565 (0.0%)	0.65	19/76835 (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	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
All	All	0	5

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	1830	ASP	C-N	-16.99	1.01	1.34
1	D	1830	ASP	C-N	-16.98	1.01	1.34
1	C	1830	ASP	C-N	-16.96	1.02	1.34
1	B	1830	ASP	C-N	-16.95	1.02	1.34
1	A	1830	ASP	C-N	-16.92	1.02	1.34

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2441	LEU	CA-CB-CG	5.75	128.53	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2441	LEU	CA-CB-CG	5.75	128.51	115.30
1	B	2441	LEU	CA-CB-CG	5.74	128.50	115.30
1	C	2441	LEU	CA-CB-CG	5.74	128.50	115.30
1	E	2441	LEU	CA-CB-CG	5.73	128.48	115.30
1	E	1172	LEU	CA-CB-CG	5.39	127.69	115.30
1	C	1172	LEU	CA-CB-CG	5.38	127.68	115.30
1	B	1172	LEU	CA-CB-CG	5.38	127.67	115.30
1	A	1172	LEU	CA-CB-CG	5.37	127.65	115.30
1	D	1172	LEU	CA-CB-CG	5.36	127.62	115.30
1	A	2504	LEU	CA-CB-CG	5.09	127.01	115.30
1	E	2504	LEU	CA-CB-CG	5.09	127.01	115.30
1	C	2504	LEU	CA-CB-CG	5.09	127.00	115.30
1	B	2504	LEU	CA-CB-CG	5.08	126.98	115.30
1	D	2504	LEU	CA-CB-CG	5.08	126.98	115.30
1	A	2016	LEU	CB-CG-CD2	-5.01	102.48	111.00
1	C	2016	LEU	CB-CG-CD2	-5.01	102.48	111.00
1	D	2016	LEU	CB-CG-CD2	-5.01	102.49	111.00
1	C	1659	ARG	N-CA-C	5.00	124.51	111.00

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1005	GLU	Peptide
1	B	1005	GLU	Peptide
1	C	1005	GLU	Peptide
1	D	1005	GLU	Peptide
1	E	1005	GLU	Peptide

## 5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11083	0	10580	1079	0
1	B	11083	0	10579	1079	0
1	C	11083	0	10579	1084	0
1	D	11083	0	10580	1096	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	11083	0	10579	1092	0
All	All	55415	0	52897	4117	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 38.

All (4117) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2176:ALA:CB	1:D:2117:LEU:HD22	1.13	1.59
1:D:2176:ALA:CB	1:E:2117:LEU:HD22	1.13	1.59
1:D:2169:ALA:CB	1:E:2124:LEU:HD22	1.29	1.58
1:A:2169:ALA:HB2	1:B:2124:LEU:CD2	1.14	1.58
1:A:2117:LEU:HD22	1:E:2176:ALA:CB	1.16	1.58
1:D:2169:ALA:CB	1:E:2124:LEU:CD2	1.80	1.58
1:A:2169:ALA:CB	1:B:2124:LEU:HD22	1.29	1.56
1:A:2124:LEU:CD2	1:E:2169:ALA:HB2	1.17	1.56
1:B:2169:ALA:HB2	1:C:2124:LEU:CD2	1.15	1.56
1:A:2176:ALA:CB	1:B:2117:LEU:HD22	1.13	1.56
1:B:2169:ALA:CB	1:C:2124:LEU:HD22	1.30	1.56
1:D:2169:ALA:HB2	1:E:2124:LEU:CD2	1.13	1.55
1:C:2169:ALA:HB2	1:D:2124:LEU:CD2	1.14	1.54
1:C:2169:ALA:CB	1:D:2124:LEU:CD2	1.80	1.54
1:B:2176:ALA:CB	1:C:2117:LEU:HD22	1.15	1.53
1:A:2124:LEU:CD2	1:E:2169:ALA:CB	1.84	1.53
1:C:2169:ALA:CB	1:D:2124:LEU:HD22	1.30	1.52
1:A:2169:ALA:HB2	1:B:2124:LEU:CG	1.38	1.50
1:A:2124:LEU:HD22	1:E:2169:ALA:CB	1.33	1.47
1:B:2169:ALA:CB	1:C:2124:LEU:CD2	1.81	1.47
1:B:2169:ALA:HB2	1:C:2124:LEU:CG	1.42	1.47
1:D:2169:ALA:HB2	1:E:2124:LEU:CG	1.41	1.47
1:C:2169:ALA:HB2	1:D:2124:LEU:CG	1.41	1.46
1:A:2169:ALA:CB	1:B:2124:LEU:CD2	1.79	1.46
1:A:2460:PHE:CE2	1:B:2330:GLU:HG2	1.51	1.46
1:A:2330:GLU:HG2	1:E:2460:PHE:CE2	1.51	1.45
1:C:1272:ASP:OD1	1:D:1623:THR:CA	1.64	1.45
1:B:2460:PHE:CE2	1:C:2330:GLU:HG2	1.51	1.45
1:A:1623:THR:CA	1:E:1272:ASP:OD1	1.66	1.44
1:A:2124:LEU:CG	1:E:2169:ALA:HB2	1.44	1.44
1:A:2169:ALA:CA	1:B:2124:LEU:HD13	1.45	1.43
1:D:2169:ALA:CA	1:E:2124:LEU:HD13	1.48	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2169:ALA:CA	1:D:2124:LEU:HD13	1.48	1.42
1:B:2169:ALA:CA	1:C:2124:LEU:HD13	1.49	1.40
1:D:2460:PHE:CE2	1:E:2330:GLU:HG2	1.54	1.39
1:A:2124:LEU:HD13	1:E:2169:ALA:CA	1.51	1.39
1:D:2176:ALA:CB	1:E:2117:LEU:CD2	2.00	1.39
1:B:1272:ASP:OD1	1:C:1623:THR:CA	1.66	1.39
1:C:2460:PHE:CE2	1:D:2330:GLU:HG2	1.55	1.39
1:C:2176:ALA:CB	1:D:2117:LEU:CD2	1.99	1.38
1:C:2176:ALA:HB2	1:D:2117:LEU:CD2	1.54	1.38
1:A:2117:LEU:CD2	1:E:2176:ALA:CB	2.03	1.37
1:B:2176:ALA:CB	1:C:2117:LEU:CD2	2.02	1.36
1:A:2176:ALA:CB	1:B:2117:LEU:CD2	1.99	1.36
1:D:2176:ALA:HB2	1:E:2117:LEU:CD2	1.54	1.36
1:A:160:SER:OG	1:A:982:LYS:HE2	1.26	1.36
1:B:160:SER:OG	1:B:982:LYS:HE2	1.26	1.35
1:D:2106:ASN:O	1:D:2107:ILE:HD13	1.18	1.34
1:C:2106:ASN:O	1:C:2107:ILE:HD13	1.18	1.33
1:A:2176:ALA:HB2	1:B:2117:LEU:CD2	1.54	1.33
1:A:1623:THR:HA	1:E:1272:ASP:CG	1.47	1.33
1:E:160:SER:OG	1:E:982:LYS:HE2	1.26	1.33
1:A:2176:ALA:HB2	1:B:2117:LEU:CG	1.58	1.33
1:C:1272:ASP:CG	1:D:1623:THR:HA	1.47	1.33
1:B:1272:ASP:CG	1:C:1623:THR:HA	1.48	1.32
1:B:2176:ALA:HB2	1:C:2117:LEU:CD2	1.55	1.32
1:A:2106:ASN:O	1:A:2107:ILE:HD13	1.18	1.31
1:B:2106:ASN:O	1:B:2107:ILE:HD13	1.18	1.31
1:A:2117:LEU:CD2	1:E:2176:ALA:HB2	1.56	1.31
1:C:160:SER:OG	1:C:982:LYS:HE2	1.26	1.31
1:A:2117:LEU:CG	1:E:2176:ALA:HB2	1.62	1.29
1:A:2124:LEU:CD1	1:E:2169:ALA:HB2	1.62	1.29
1:C:2176:ALA:HB2	1:D:2117:LEU:CG	1.60	1.29
1:E:2106:ASN:O	1:E:2107:ILE:HD13	1.18	1.29
1:D:160:SER:OG	1:D:982:LYS:HE2	1.26	1.29
1:A:2169:ALA:HB2	1:B:2124:LEU:CD1	1.61	1.29
1:A:2169:ALA:CA	1:B:2124:LEU:CD1	2.09	1.29
1:B:1660:TRP:CZ3	1:B:1680:GLN:HB3	1.68	1.28
1:C:1660:TRP:CZ3	1:C:1680:GLN:HB3	1.68	1.28
1:C:2169:ALA:HB2	1:D:2124:LEU:CD1	1.63	1.28
1:D:2176:ALA:HB2	1:E:2117:LEU:CG	1.60	1.28
1:D:2169:ALA:HB2	1:E:2124:LEU:CD1	1.64	1.28
1:B:2176:ALA:HB2	1:C:2117:LEU:CG	1.62	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2382:ASP:OD2	1:D:2403:PRO:CA	1.83	1.27
1:C:2169:ALA:CA	1:D:2124:LEU:CD1	2.12	1.27
1:D:2169:ALA:CA	1:E:2124:LEU:CD1	2.12	1.26
1:E:1660:TRP:CZ3	1:E:1680:GLN:HB3	1.68	1.26
1:B:2169:ALA:HB2	1:C:2124:LEU:CD1	1.64	1.26
1:D:1660:TRP:CZ3	1:D:1680:GLN:HB3	1.68	1.26
1:D:2382:ASP:OD2	1:E:2403:PRO:CA	1.81	1.26
1:A:1660:TRP:CZ3	1:A:1680:GLN:HB3	1.68	1.26
1:A:2403:PRO:CA	1:E:2382:ASP:OD2	1.82	1.26
1:A:2103:TYR:CD2	1:A:2196:ARG:CZ	2.19	1.25
1:D:2103:TYR:CD2	1:D:2196:ARG:CZ	2.19	1.25
1:A:2382:ASP:OD2	1:B:2403:PRO:CA	1.83	1.25
1:A:2169:ALA:N	1:B:2124:LEU:HD11	1.49	1.25
1:B:2169:ALA:CA	1:C:2124:LEU:CD1	2.14	1.25
1:B:2169:ALA:N	1:C:2124:LEU:HD11	1.52	1.25
1:C:2103:TYR:CD2	1:C:2196:ARG:CZ	2.19	1.24
1:E:2103:TYR:CD2	1:E:2196:ARG:CZ	2.19	1.24
1:B:2103:TYR:CD2	1:B:2196:ARG:CZ	2.19	1.24
1:B:2382:ASP:OD2	1:C:2403:PRO:CA	1.86	1.24
1:A:2124:LEU:CD1	1:E:2169:ALA:CA	2.15	1.23
1:C:2169:ALA:N	1:D:2124:LEU:HD11	1.52	1.22
1:D:2169:ALA:N	1:E:2124:LEU:HD11	1.51	1.22
1:A:2169:ALA:CB	1:B:2124:LEU:CD1	2.17	1.21
1:B:1660:TRP:CE3	1:B:1680:GLN:HB3	1.76	1.21
1:A:2194:ILE:CD1	1:B:2098:SER:OG	1.89	1.21
1:C:1660:TRP:CE3	1:C:1680:GLN:HB3	1.76	1.21
1:B:2172:MET:HE3	1:C:2121:ALA:N	1.54	1.21
1:E:2103:TYR:CE2	1:E:2196:ARG:NH2	2.09	1.20
1:B:2103:TYR:CE2	1:B:2196:ARG:NH2	2.09	1.20
1:C:2103:TYR:CE2	1:C:2196:ARG:NH2	2.09	1.20
1:A:1660:TRP:CE3	1:A:1680:GLN:HB3	1.76	1.20
1:A:2103:TYR:CE2	1:A:2196:ARG:NH2	2.09	1.19
1:D:1660:TRP:CE3	1:D:1680:GLN:HB3	1.76	1.19
1:A:2124:LEU:HD11	1:E:2169:ALA:N	1.55	1.19
1:C:2194:ILE:CD1	1:D:2098:SER:OG	1.91	1.19
1:D:2194:ILE:CD1	1:E:2098:SER:OG	1.90	1.19
1:D:2103:TYR:CE2	1:D:2196:ARG:NH2	2.09	1.19
1:E:1660:TRP:CE3	1:E:1680:GLN:HB3	1.76	1.19
1:A:2098:SER:OG	1:E:2194:ILE:CD1	1.91	1.18
1:C:2172:MET:HE3	1:D:2121:ALA:N	1.59	1.18
1:A:2382:ASP:OD2	1:B:2403:PRO:CB	1.92	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2194:ILE:CD1	1:C:2098:SER:OG	1.91	1.18
1:B:2169:ALA:CB	1:C:2124:LEU:CD1	2.21	1.18
1:B:2106:ASN:O	1:B:2107:ILE:CD1	1.92	1.18
1:A:2106:ASN:O	1:A:2107:ILE:CD1	1.92	1.17
1:A:2124:LEU:CD1	1:E:2169:ALA:CB	2.21	1.17
1:A:2172:MET:HE3	1:B:2121:ALA:N	1.55	1.17
1:A:2403:PRO:CB	1:E:2382:ASP:OD2	1.92	1.17
1:A:2172:MET:O	1:B:2117:LEU:HD11	1.45	1.17
1:C:2106:ASN:O	1:C:2107:ILE:CD1	1.92	1.17
1:D:2036:PHE:HE1	1:E:2308:GLU:HG2	1.04	1.17
1:E:2106:ASN:O	1:E:2107:ILE:CD1	1.92	1.17
1:A:93:ASN:HD21	1:A:1894:PRO:HB3	1.04	1.17
1:D:2106:ASN:O	1:D:2107:ILE:CD1	1.92	1.16
1:D:2172:MET:HE3	1:E:2121:ALA:N	1.59	1.16
1:C:2036:PHE:HE1	1:D:2308:GLU:HG2	1.02	1.16
1:C:2169:ALA:CB	1:D:2124:LEU:CD1	2.20	1.16
1:E:93:ASN:HD21	1:E:1894:PRO:HB3	1.04	1.16
1:C:2103:TYR:CD2	1:C:2196:ARG:NH2	2.15	1.15
1:C:2172:MET:O	1:D:2117:LEU:HD11	1.46	1.15
1:A:1623:THR:HA	1:E:1272:ASP:OD1	0.98	1.15
1:A:2308:GLU:HG2	1:E:2036:PHE:HE1	1.05	1.15
1:D:93:ASN:HD21	1:D:1894:PRO:HB3	1.03	1.15
1:D:2176:ALA:N	1:E:2117:LEU:HD13	1.60	1.15
1:B:2172:MET:O	1:C:2117:LEU:HD11	1.46	1.15
1:C:2382:ASP:OD2	1:D:2403:PRO:CB	1.94	1.15
1:D:2382:ASP:OD2	1:E:2403:PRO:CB	1.92	1.15
1:B:2103:TYR:CD2	1:B:2196:ARG:NH2	2.15	1.15
1:B:2382:ASP:OD2	1:C:2403:PRO:CB	1.95	1.15
1:D:2169:ALA:CB	1:E:2124:LEU:CD1	2.20	1.15
1:A:2117:LEU:HD11	1:E:2172:MET:O	1.44	1.15
1:A:2176:ALA:N	1:B:2117:LEU:HD13	1.58	1.14
1:B:2036:PHE:HE1	1:C:2308:GLU:HG2	1.05	1.14
1:C:2176:ALA:N	1:D:2117:LEU:HD13	1.61	1.14
1:D:2172:MET:O	1:E:2117:LEU:HD11	1.47	1.14
1:B:93:ASN:HD21	1:B:1894:PRO:HB3	1.04	1.14
1:A:2103:TYR:CD2	1:A:2196:ARG:NH2	2.15	1.14
1:A:2036:PHE:HE1	1:B:2308:GLU:HG2	1.05	1.14
1:B:2176:ALA:N	1:C:2117:LEU:HD13	1.62	1.14
1:B:1272:ASP:OD1	1:C:1623:THR:HA	0.99	1.13
1:C:1270:PHE:N	1:D:1808:HIS:CE1	2.10	1.13
1:D:2103:TYR:CD2	1:D:2196:ARG:NH2	2.15	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:93:ASN:HD21	1:C:1894:PRO:HB3	1.03	1.13
1:B:2460:PHE:CE2	1:C:2330:GLU:CG	2.32	1.13
1:E:2103:TYR:CD2	1:E:2196:ARG:NH2	2.15	1.13
1:A:2117:LEU:HD13	1:E:2176:ALA:N	1.63	1.12
1:B:2169:ALA:HB1	1:C:2124:LEU:HD22	1.29	1.12
1:E:93:ASN:ND2	1:E:1894:PRO:HB3	1.65	1.12
1:C:93:ASN:ND2	1:C:1894:PRO:HB3	1.65	1.11
1:B:93:ASN:ND2	1:B:1894:PRO:HB3	1.65	1.11
1:C:2258:LEU:HB2	1:D:2305:LEU:HD21	1.32	1.11
1:A:93:ASN:ND2	1:A:1894:PRO:HB3	1.65	1.11
1:C:1272:ASP:OD1	1:D:1623:THR:HA	0.95	1.11
1:C:2036:PHE:CE1	1:D:2308:GLU:HG2	1.84	1.11
1:D:93:ASN:ND2	1:D:1894:PRO:HB3	1.65	1.11
1:D:1270:PHE:N	1:E:1808:HIS:CE1	2.11	1.11
1:A:1270:PHE:N	1:B:1808:HIS:CE1	2.12	1.10
1:D:2258:LEU:HB2	1:E:2305:LEU:HD21	1.32	1.10
1:A:2169:ALA:CB	1:B:2124:LEU:HD13	1.81	1.10
1:A:2169:ALA:HB1	1:B:2124:LEU:HD22	1.27	1.10
1:A:2305:LEU:HD21	1:E:2258:LEU:HB2	1.32	1.10
1:A:2460:PHE:CE2	1:B:2330:GLU:CG	2.33	1.10
1:A:2036:PHE:CE1	1:B:2308:GLU:HG2	1.87	1.10
1:B:2258:LEU:HB2	1:C:2305:LEU:HD21	1.34	1.10
1:A:2330:GLU:CG	1:E:2460:PHE:CE2	2.33	1.09
1:D:2036:PHE:CE1	1:E:2308:GLU:HG2	1.86	1.09
1:A:2258:LEU:HB2	1:B:2305:LEU:HD21	1.33	1.09
1:B:2179:ILE:CG2	1:C:2114:ALA:HB2	1.82	1.09
1:D:2460:PHE:CE2	1:E:2330:GLU:CG	2.36	1.09
1:B:1270:PHE:N	1:C:1808:HIS:CE1	2.12	1.09
1:B:2036:PHE:CE1	1:C:2308:GLU:HG2	1.88	1.09
1:C:2179:ILE:CG2	1:D:2114:ALA:HB2	1.83	1.08
1:D:2179:ILE:CG2	1:E:2114:ALA:HB2	1.82	1.08
1:A:2124:LEU:HD13	1:E:2169:ALA:CB	1.83	1.08
1:A:2169:ALA:N	1:B:2124:LEU:CD1	2.14	1.08
1:A:2308:GLU:HG2	1:E:2036:PHE:CE1	1.87	1.08
1:A:2179:ILE:CG2	1:B:2114:ALA:HB2	1.84	1.08
1:B:2172:MET:O	1:C:2117:LEU:HD21	1.54	1.07
1:A:1808:HIS:CE1	1:E:1270:PHE:N	2.12	1.07
1:A:2176:ALA:HB3	1:B:2117:LEU:CD2	1.72	1.07
1:C:2176:ALA:HB3	1:D:2117:LEU:CD2	1.74	1.07
1:C:2460:PHE:CE2	1:D:2330:GLU:CG	2.36	1.07
1:A:2114:ALA:HB2	1:E:2179:ILE:CG2	1.85	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2121:ALA:N	1:E:2172:MET:HE3	1.69	1.07
1:A:2176:ALA:HB2	1:B:2117:LEU:CB	1.82	1.07
1:A:2183:GLU:CG	1:B:2111:GLU:HG3	1.84	1.07
1:D:2176:ALA:HB3	1:E:2117:LEU:CD2	1.75	1.07
1:A:2124:LEU:HD22	1:E:2169:ALA:HB1	1.31	1.07
1:B:1272:ASP:OD2	1:C:1626:SER:HB3	1.55	1.07
1:C:2169:ALA:N	1:D:2124:LEU:CD1	2.17	1.07
1:C:2169:ALA:HB1	1:D:2124:LEU:HD22	1.28	1.07
1:A:1626:SER:HB3	1:E:1272:ASP:OD2	1.53	1.06
1:B:160:SER:OG	1:B:982:LYS:CE	2.03	1.06
1:D:2169:ALA:CB	1:E:2124:LEU:HD13	1.84	1.06
1:D:2172:MET:O	1:E:2117:LEU:HD21	1.54	1.06
1:A:1622:ASP:O	1:E:1272:ASP:OD1	1.71	1.06
1:A:2327:ARG:HH12	1:E:2468:LYS:HD2	1.19	1.06
1:C:1272:ASP:OD2	1:D:1626:SER:HB3	1.54	1.06
1:D:160:SER:OG	1:D:982:LYS:CE	2.03	1.06
1:E:160:SER:OG	1:E:982:LYS:CE	2.03	1.06
1:D:2176:ALA:HB2	1:E:2117:LEU:CB	1.85	1.06
1:D:2183:GLU:CG	1:E:2111:GLU:HG3	1.85	1.06
1:D:2169:ALA:HB1	1:E:2124:LEU:HD22	1.28	1.06
1:A:160:SER:OG	1:A:982:LYS:CE	2.03	1.05
1:B:2183:GLU:CG	1:C:2111:GLU:HG3	1.86	1.05
1:C:2176:ALA:HB2	1:D:2117:LEU:CB	1.85	1.05
1:A:1272:ASP:OD2	1:B:1626:SER:HB3	1.55	1.05
1:A:2124:LEU:HD13	1:E:2169:ALA:HA	1.10	1.05
1:C:160:SER:OG	1:C:982:LYS:CE	2.03	1.05
1:A:2172:MET:O	1:B:2117:LEU:HD21	1.56	1.05
1:B:2169:ALA:HA	1:C:2124:LEU:HD13	1.08	1.05
1:B:2460:PHE:CD2	1:C:2330:GLU:HG2	1.91	1.05
1:C:2183:GLU:CG	1:D:2111:GLU:HG3	1.86	1.05
1:D:2169:ALA:N	1:E:2124:LEU:CD1	2.16	1.05
1:A:2117:LEU:HD21	1:E:2172:MET:O	1.57	1.04
1:B:2176:ALA:HB2	1:C:2117:LEU:CB	1.86	1.04
1:C:1242:GLU:CB	1:D:1806:ILE:HG12	1.86	1.04
1:D:1272:ASP:OD2	1:E:1626:SER:HB3	1.53	1.04
1:A:2111:GLU:HG3	1:E:2183:GLU:CG	1.88	1.04
1:B:2169:ALA:N	1:C:2124:LEU:CD1	2.16	1.04
1:A:2117:LEU:HG	1:E:2172:MET:HG2	1.40	1.04
1:A:2117:LEU:CB	1:E:2176:ALA:HB2	1.87	1.04
1:A:2468:LYS:HD2	1:B:2327:ARG:HH12	1.22	1.04
1:B:1660:TRP:CD1	1:B:1661:PHE:N	2.26	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1272:ASP:OD1	1:D:1622:ASP:O	1.75	1.04
1:C:2172:MET:O	1:D:2117:LEU:HD21	1.56	1.04
1:A:1660:TRP:CD1	1:A:1661:PHE:N	2.26	1.03
1:A:2124:LEU:CD1	1:E:2169:ALA:N	2.19	1.03
1:C:901:ASP:O	1:C:906:MET:O	1.75	1.03
1:D:1103:ASN:ND2	1:D:1598:TRP:CD1	2.27	1.03
1:D:1242:GLU:CB	1:E:1806:ILE:HG12	1.87	1.03
1:E:901:ASP:O	1:E:906:MET:O	1.75	1.03
1:A:901:ASP:O	1:A:906:MET:O	1.75	1.03
1:A:2117:LEU:CD2	1:E:2176:ALA:HB3	1.77	1.03
1:D:2169:ALA:CB	1:E:2124:LEU:HD21	1.89	1.03
1:A:2460:PHE:CD2	1:B:2330:GLU:HG2	1.93	1.03
1:B:1272:ASP:OD1	1:C:1622:ASP:O	1.73	1.03
1:A:1623:THR:N	1:E:1272:ASP:OD1	1.92	1.03
1:C:1660:TRP:CD1	1:C:1661:PHE:N	2.26	1.03
1:D:1660:TRP:CD1	1:D:1661:PHE:N	2.26	1.03
1:E:1103:ASN:ND2	1:E:1598:TRP:CD1	2.27	1.03
1:A:1103:ASN:ND2	1:A:1598:TRP:CD1	2.27	1.02
1:A:2330:GLU:HG2	1:E:2460:PHE:CD2	1.93	1.02
1:C:2169:ALA:HA	1:D:2124:LEU:HD13	1.07	1.02
1:C:1103:ASN:ND2	1:C:1598:TRP:CD1	2.27	1.02
1:B:901:ASP:O	1:B:906:MET:O	1.75	1.02
1:C:2176:ALA:HB2	1:D:2117:LEU:HD22	1.13	1.02
1:C:2179:ILE:HG22	1:D:2114:ALA:HB2	1.40	1.02
1:C:2460:PHE:CD2	1:D:2330:GLU:HG2	1.95	1.02
1:A:2176:ALA:CA	1:B:2117:LEU:HD13	1.90	1.02
1:A:2318:GLU:HG2	1:E:2272:ARG:HH21	1.21	1.02
1:B:2103:TYR:CD2	1:B:2196:ARG:NH1	2.28	1.02
1:D:901:ASP:O	1:D:906:MET:O	1.75	1.02
1:D:2169:ALA:HA	1:E:2124:LEU:HD13	1.06	1.02
1:E:1660:TRP:CD1	1:E:1661:PHE:N	2.26	1.02
1:A:2169:ALA:CB	1:B:2124:LEU:HD21	1.88	1.02
1:C:2169:ALA:CB	1:D:2124:LEU:HD21	1.88	1.02
1:D:2172:MET:CE	1:E:2121:ALA:N	2.22	1.02
1:B:1103:ASN:ND2	1:B:1598:TRP:CD1	2.27	1.01
1:C:2169:ALA:CB	1:D:2124:LEU:HD13	1.83	1.01
1:C:2272:ARG:HH21	1:D:2318:GLU:HG2	1.20	1.01
1:A:1622:ASP:C	1:E:1272:ASP:OD1	1.96	1.01
1:A:1806:ILE:HG12	1:E:1242:GLU:CB	1.89	1.01
1:A:2172:MET:CE	1:B:2121:ALA:N	2.23	1.01
1:A:2272:ARG:HH21	1:B:2318:GLU:HG2	1.23	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2172:MET:HG2	1:C:2117:LEU:HG	1.40	1.01
1:B:2172:MET:CE	1:C:2121:ALA:N	2.23	1.01
1:D:2172:MET:HG2	1:E:2117:LEU:HG	1.42	1.01
1:A:1242:GLU:CB	1:B:1806:ILE:HG12	1.89	1.01
1:A:2103:TYR:CD2	1:A:2196:ARG:NH1	2.28	1.01
1:B:2169:ALA:CB	1:C:2124:LEU:HD13	1.84	1.01
1:B:2468:LYS:HD2	1:C:2327:ARG:HH12	1.18	1.01
1:C:2172:MET:CE	1:D:2121:ALA:N	2.24	1.01
1:C:2468:LYS:HD2	1:D:2327:ARG:HH12	1.22	1.01
1:D:2272:ARG:HH21	1:E:2318:GLU:HG2	1.20	1.01
1:D:2460:PHE:CD2	1:E:2330:GLU:HG2	1.96	1.01
1:C:2103:TYR:CD2	1:C:2196:ARG:NH1	2.28	1.01
1:C:2172:MET:HG2	1:D:2117:LEU:HG	1.42	1.01
1:A:2194:ILE:HD12	1:B:2098:SER:OG	1.61	1.01
1:B:2272:ARG:HH21	1:C:2318:GLU:HG2	1.22	1.01
1:D:2382:ASP:OD2	1:E:2403:PRO:HA	1.58	1.01
1:E:2103:TYR:CD2	1:E:2196:ARG:NH1	2.28	1.01
1:B:1242:GLU:CB	1:C:1806:ILE:HG12	1.89	1.00
1:C:1272:ASP:OD1	1:D:1622:ASP:C	2.00	1.00
1:D:2103:TYR:CD2	1:D:2196:ARG:NH1	2.28	1.00
1:D:2468:LYS:HD2	1:E:2327:ARG:HH12	1.22	1.00
1:A:2172:MET:HG2	1:B:2117:LEU:HG	1.42	1.00
1:B:1272:ASP:OD1	1:C:1623:THR:N	1.93	1.00
1:B:1272:ASP:OD1	1:C:1622:ASP:C	1.97	1.00
1:A:2169:ALA:HA	1:B:2124:LEU:HD13	1.05	1.00
1:B:2179:ILE:HG22	1:C:2114:ALA:HB2	1.40	1.00
1:D:998:ASN:HB3	1:E:1881:MET:SD	2.01	1.00
1:A:2179:ILE:HG22	1:B:2114:ALA:HB2	1.40	1.00
1:C:1272:ASP:OD1	1:D:1623:THR:N	1.94	1.00
1:A:1272:ASP:OD1	1:B:1622:ASP:O	1.74	1.00
1:D:2179:ILE:HG22	1:E:2114:ALA:HB2	1.39	1.00
1:B:2169:ALA:CB	1:C:2124:LEU:HD21	1.90	0.99
1:C:2169:ALA:H	1:D:2124:LEU:HD11	1.23	0.99
1:A:2169:ALA:H	1:B:2124:LEU:HD11	1.20	0.99
1:C:998:ASN:HB3	1:D:1881:MET:SD	2.03	0.99
1:C:2176:ALA:CA	1:D:2117:LEU:HD13	1.92	0.99
1:D:2176:ALA:CA	1:E:2117:LEU:HD13	1.93	0.99
1:A:2124:LEU:HD11	1:E:2169:ALA:H	1.25	0.99
1:A:1881:MET:SD	1:E:998:ASN:HB3	2.02	0.98
1:B:2176:ALA:HB2	1:C:2117:LEU:HD22	1.13	0.98
1:E:2103:TYR:CG	1:E:2196:ARG:NH1	2.31	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2222:LEU:HD12	1:B:2073:LYS:HD2	1.45	0.98
1:B:2103:TYR:CG	1:B:2196:ARG:NH1	2.31	0.98
1:A:2117:LEU:HD13	1:E:2176:ALA:CA	1.93	0.98
1:D:2103:TYR:CG	1:D:2196:ARG:NH1	2.31	0.98
1:A:2382:ASP:OD2	1:B:2403:PRO:HA	1.61	0.98
1:C:2382:ASP:OD2	1:D:2403:PRO:HA	1.59	0.98
1:C:2103:TYR:CG	1:C:2196:ARG:NH1	2.31	0.98
1:B:1660:TRP:HD1	1:B:1661:PHE:N	1.61	0.98
1:B:2169:ALA:H	1:C:2124:LEU:HD11	1.23	0.98
1:D:2194:ILE:HG21	1:E:2099:TYR:OH	1.64	0.98
1:A:2124:LEU:HD21	1:E:2169:ALA:CB	1.91	0.98
1:A:2169:ALA:HB3	1:B:2124:LEU:CD2	1.93	0.98
1:A:2403:PRO:HA	1:E:2382:ASP:OD2	1.59	0.98
1:D:93:ASN:HD21	1:D:1894:PRO:CB	1.77	0.98
1:C:93:ASN:HD21	1:C:1894:PRO:CB	1.77	0.98
1:C:1205:TYR:HD1	1:D:1072:ASP:OD2	1.47	0.98
1:D:1029:SER:OG	1:E:1872:GLU:OE2	1.82	0.98
1:D:2222:LEU:HD12	1:E:2073:LYS:HD2	1.46	0.98
1:A:2176:ALA:N	1:B:2117:LEU:CD1	2.26	0.97
1:C:2194:ILE:HD12	1:D:2098:SER:OG	1.63	0.97
1:C:2222:LEU:HD12	1:D:2073:LYS:HD2	1.46	0.97
1:A:2121:ALA:N	1:E:2172:MET:CE	2.26	0.97
1:B:2176:ALA:HB3	1:C:2117:LEU:CD2	1.77	0.97
1:D:2169:ALA:HB2	1:E:2124:LEU:HD21	1.46	0.97
1:B:93:ASN:HD21	1:B:1894:PRO:CB	1.77	0.97
1:A:998:ASN:HB3	1:B:1881:MET:SD	2.03	0.97
1:D:1660:TRP:CD1	1:D:1661:PHE:O	2.17	0.97
1:E:93:ASN:HD21	1:E:1894:PRO:CB	1.77	0.97
1:A:2103:TYR:CG	1:A:2196:ARG:NH1	2.31	0.97
1:A:2183:GLU:HG3	1:B:2111:GLU:CG	1.95	0.97
1:A:2114:ALA:HB2	1:E:2179:ILE:HG22	1.43	0.97
1:A:93:ASN:HD21	1:A:1894:PRO:CB	1.77	0.96
1:B:118:TYR:O	1:B:122:LEU:HB2	1.65	0.96
1:B:2176:ALA:CA	1:C:2117:LEU:HD13	1.94	0.96
1:B:2194:ILE:HD12	1:C:2098:SER:OG	1.65	0.96
1:C:1660:TRP:CD1	1:C:1661:PHE:O	2.17	0.96
1:E:1660:TRP:CD1	1:E:1661:PHE:O	2.17	0.96
1:A:118:TYR:O	1:A:122:LEU:HB2	1.65	0.96
1:B:2382:ASP:OD2	1:C:2403:PRO:HA	1.61	0.96
1:D:2183:GLU:HG3	1:E:2111:GLU:CG	1.95	0.96
1:D:118:TYR:O	1:D:122:LEU:HB2	1.65	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2176:ALA:HB2	1:B:2117:LEU:HB3	1.46	0.96
1:B:1660:TRP:CD1	1:B:1661:PHE:O	2.17	0.96
1:B:998:ASN:HB3	1:C:1881:MET:SD	2.05	0.96
1:A:1872:GLU:OE2	1:E:1029:SER:OG	1.83	0.96
1:A:1660:TRP:CD1	1:A:1661:PHE:O	2.17	0.96
1:A:2098:SER:OG	1:E:2194:ILE:HD12	1.64	0.96
1:D:1660:TRP:HD1	1:D:1661:PHE:N	1.61	0.96
1:B:2194:ILE:HG21	1:C:2099:TYR:OH	1.64	0.95
1:C:2426:TYR:HB3	1:D:2334:THR:HG21	1.48	0.95
1:D:2194:ILE:HD12	1:E:2098:SER:OG	1.63	0.95
1:A:1205:TYR:HD1	1:B:1072:ASP:OD2	1.49	0.95
1:E:118:TYR:O	1:E:122:LEU:HB2	1.65	0.95
1:A:1660:TRP:HD1	1:A:1661:PHE:N	1.61	0.95
1:B:2169:ALA:HB3	1:C:2124:LEU:CD2	1.97	0.95
1:A:2194:ILE:HG21	1:B:2099:TYR:OH	1.65	0.95
1:C:2036:PHE:HE1	1:D:2308:GLU:CG	1.79	0.95
1:D:160:SER:HG	1:D:982:LYS:HE2	1.31	0.95
1:B:160:SER:HG	1:B:982:LYS:HE2	1.12	0.95
1:B:2183:GLU:HG3	1:C:2111:GLU:CG	1.96	0.95
1:C:1660:TRP:HD1	1:C:1661:PHE:N	1.61	0.95
1:A:2111:GLU:HG3	1:E:2183:GLU:HG3	1.48	0.95
1:C:2183:GLU:HG3	1:D:2111:GLU:CG	1.97	0.95
1:C:2194:ILE:HG21	1:D:2099:TYR:OH	1.66	0.95
1:C:1029:SER:OG	1:D:1872:GLU:OE2	1.83	0.94
1:D:2169:ALA:HB3	1:E:2124:LEU:CD2	1.95	0.94
1:B:2222:LEU:HD12	1:C:2073:LYS:HD2	1.49	0.94
1:C:118:TYR:O	1:C:122:LEU:HB2	1.66	0.94
1:D:1205:TYR:HD1	1:E:1072:ASP:OD2	1.49	0.94
1:D:2176:ALA:HB2	1:E:2117:LEU:HB3	1.48	0.94
1:A:2073:LYS:HD2	1:E:2222:LEU:HD12	1.49	0.94
1:B:1029:SER:OG	1:C:1872:GLU:OE2	1.85	0.94
1:C:2169:ALA:HB3	1:D:2124:LEU:CD2	1.96	0.94
1:B:1205:TYR:HD1	1:C:1072:ASP:OD2	1.51	0.94
1:D:1272:ASP:OD1	1:E:1622:ASP:O	1.73	0.94
1:A:2111:GLU:CG	1:E:2183:GLU:HG3	1.98	0.94
1:C:2176:ALA:N	1:D:2117:LEU:CD1	2.29	0.94
1:D:2176:ALA:N	1:E:2117:LEU:CD1	2.29	0.94
1:C:2036:PHE:CE1	1:D:2308:GLU:CG	2.50	0.94
1:A:1072:ASP:OD2	1:E:1205:TYR:HD1	1.51	0.94
1:B:2183:GLU:HG3	1:C:2111:GLU:HG3	1.47	0.94
1:E:160:SER:HG	1:E:982:LYS:HE2	1.18	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1235:TYR:HB3	1:A:1248:MET:HB3	1.49	0.94
1:A:2099:TYR:OH	1:E:2194:ILE:HG21	1.66	0.94
1:D:2036:PHE:HE1	1:E:2308:GLU:CG	1.81	0.94
1:E:1660:TRP:HD1	1:E:1661:PHE:N	1.61	0.94
1:C:2013:PHE:CZ	1:D:2323:LYS:HG2	2.02	0.93
1:D:2169:ALA:H	1:E:2124:LEU:HD11	1.22	0.93
1:C:160:SER:HG	1:C:982:LYS:HE2	1.15	0.93
1:C:2183:GLU:HG3	1:D:2111:GLU:HG3	1.48	0.93
1:B:2176:ALA:N	1:C:2117:LEU:CD1	2.31	0.93
1:A:1029:SER:OG	1:B:1872:GLU:OE2	1.85	0.93
1:A:2117:LEU:HB3	1:E:2176:ALA:HB2	1.51	0.93
1:C:1235:TYR:HB3	1:C:1248:MET:HB3	1.49	0.93
1:E:1235:TYR:HB3	1:E:1248:MET:HB3	1.49	0.93
1:B:2426:TYR:HB3	1:C:2334:THR:HG21	1.50	0.93
1:C:2176:ALA:HB2	1:D:2117:LEU:HB3	1.49	0.92
1:A:2036:PHE:HE1	1:B:2308:GLU:CG	1.81	0.92
1:A:160:SER:HG	1:A:982:LYS:HE2	1.13	0.92
1:D:2426:TYR:HB3	1:E:2334:THR:HG21	1.49	0.92
1:A:2013:PHE:CZ	1:B:2323:LYS:HG2	2.05	0.92
1:A:2183:GLU:HG3	1:B:2111:GLU:HG3	1.46	0.92
1:B:2013:PHE:CZ	1:C:2323:LYS:HG2	2.05	0.92
1:A:2117:LEU:CD1	1:E:2172:MET:O	2.18	0.92
1:D:2013:PHE:CZ	1:E:2323:LYS:HG2	2.03	0.92
1:A:2036:PHE:CE1	1:B:2308:GLU:CG	2.52	0.91
1:A:2183:GLU:OE2	1:B:2111:GLU:OE2	1.87	0.91
1:C:1660:TRP:CE3	1:C:1680:GLN:CB	2.53	0.91
1:D:2036:PHE:CE1	1:E:2308:GLU:CG	2.52	0.91
1:A:2117:LEU:CD1	1:E:2176:ALA:N	2.32	0.91
1:A:1660:TRP:CE3	1:A:1680:GLN:CB	2.53	0.91
1:B:2036:PHE:HE1	1:C:2308:GLU:CG	1.81	0.91
1:A:2172:MET:O	1:B:2117:LEU:CD1	2.17	0.91
1:A:2194:ILE:HD11	1:B:2098:SER:OG	1.71	0.91
1:A:2323:LYS:HG2	1:E:2013:PHE:CZ	2.05	0.91
1:E:1660:TRP:CE3	1:E:1680:GLN:CB	2.53	0.91
1:A:2426:TYR:HB3	1:B:2334:THR:HG21	1.49	0.91
1:D:1235:TYR:HB3	1:D:1248:MET:HB3	1.49	0.91
1:A:2308:GLU:CG	1:E:2036:PHE:HE1	1.82	0.91
1:B:1235:TYR:HB3	1:B:1248:MET:HB3	1.49	0.91
1:B:1270:PHE:N	1:C:1808:HIS:HE1	1.67	0.91
1:C:1660:TRP:O	1:C:1712:LYS:CG	2.19	0.91
1:C:2013:PHE:HZ	1:D:2323:LYS:HG2	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1660:TRP:O	1:D:1712:LYS:CG	2.19	0.91
1:B:1660:TRP:O	1:B:1712:LYS:CG	2.19	0.91
1:B:2183:GLU:OE2	1:C:2111:GLU:OE2	1.89	0.90
1:D:2172:MET:O	1:E:2117:LEU:CD1	2.19	0.90
1:D:2183:GLU:OE2	1:E:2111:GLU:OE2	1.88	0.90
1:B:2176:ALA:HB2	1:C:2117:LEU:HB3	1.49	0.90
1:B:2172:MET:O	1:C:2117:LEU:CD1	2.18	0.90
1:E:1660:TRP:O	1:E:1712:LYS:CG	2.19	0.90
1:B:1660:TRP:CE3	1:B:1680:GLN:CB	2.53	0.90
1:B:2036:PHE:CE1	1:C:2308:GLU:CG	2.53	0.90
1:D:1660:TRP:CE3	1:D:1680:GLN:CB	2.53	0.90
1:A:1270:PHE:N	1:B:1808:HIS:HE1	1.68	0.90
1:A:2098:SER:OG	1:E:2194:ILE:HD11	1.72	0.90
1:D:2013:PHE:HZ	1:E:2323:LYS:HG2	1.35	0.90
1:B:2013:PHE:HZ	1:C:2323:LYS:HG2	1.37	0.90
1:C:1029:SER:CB	1:D:1872:GLU:OE2	2.20	0.89
1:C:2172:MET:O	1:D:2117:LEU:CD1	2.19	0.89
1:A:2308:GLU:CG	1:E:2036:PHE:CE1	2.53	0.89
1:A:2327:ARG:NH1	1:E:2468:LYS:HD2	1.87	0.89
1:B:2468:LYS:HD2	1:C:2327:ARG:NH1	1.86	0.89
1:A:1808:HIS:HE1	1:E:1270:PHE:N	1.69	0.89
1:A:2334:THR:HG21	1:E:2426:TYR:HB3	1.51	0.89
1:D:1029:SER:CB	1:E:1872:GLU:OE2	2.20	0.89
1:C:1270:PHE:N	1:D:1808:HIS:HE1	1.66	0.89
1:A:1660:TRP:O	1:A:1712:LYS:CG	2.19	0.89
1:A:2124:LEU:CD2	1:E:2169:ALA:HB3	1.99	0.89
1:D:2183:GLU:HG3	1:E:2111:GLU:HG3	1.47	0.89
1:D:2194:ILE:HD11	1:E:2098:SER:OG	1.72	0.89
1:A:2323:LYS:HG2	1:E:2013:PHE:HZ	1.37	0.89
1:A:2124:LEU:HD21	1:E:2169:ALA:HB2	1.47	0.89
1:A:2169:ALA:HB2	1:B:2124:LEU:HD21	1.46	0.89
1:C:2103:TYR:HD2	1:C:2196:ARG:CZ	1.83	0.89
1:C:1244:THR:HG22	1:D:1808:HIS:HA	1.55	0.88
1:C:2183:GLU:OE2	1:D:2111:GLU:OE2	1.90	0.88
1:C:2194:ILE:HD11	1:D:2098:SER:OG	1.73	0.88
1:D:1270:PHE:N	1:E:1808:HIS:HE1	1.68	0.88
1:B:2103:TYR:HD2	1:B:2196:ARG:CZ	1.83	0.88
1:D:2103:TYR:HD2	1:D:2196:ARG:CZ	1.83	0.88
1:E:2103:TYR:HD2	1:E:2196:ARG:CZ	1.83	0.88
1:C:2382:ASP:OD2	1:D:2404:ALA:N	2.07	0.87
1:A:2111:GLU:OE2	1:E:2183:GLU:OE2	1.91	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2468:LYS:HD2	1:E:2327:ARG:NH1	1.90	0.87
1:B:2194:ILE:HD11	1:C:2098:SER:OG	1.72	0.87
1:A:2468:LYS:HD2	1:B:2327:ARG:NH1	1.89	0.87
1:A:2013:PHE:HZ	1:B:2323:LYS:HG2	1.38	0.87
1:D:2172:MET:CE	1:E:2121:ALA:CA	2.52	0.87
1:A:1029:SER:CB	1:B:1872:GLU:OE2	2.23	0.86
1:D:2382:ASP:OD2	1:E:2404:ALA:N	2.08	0.86
1:A:1872:GLU:OE2	1:E:1029:SER:CB	2.23	0.86
1:D:2183:GLU:CG	1:E:2111:GLU:CG	2.53	0.86
1:C:95:GLN:O	1:C:97:SER:N	2.09	0.86
1:D:2172:MET:O	1:E:2117:LEU:CD2	2.24	0.86
1:A:2176:ALA:H	1:B:2117:LEU:CD1	1.86	0.86
1:C:2172:MET:CE	1:D:2121:ALA:CA	2.53	0.86
1:C:2468:LYS:HD2	1:D:2327:ARG:NH1	1.90	0.86
1:B:95:GLN:O	1:B:97:SER:N	2.09	0.86
1:C:1270:PHE:H	1:D:1808:HIS:CE1	1.94	0.86
1:A:2103:TYR:HD2	1:A:2196:ARG:CZ	1.83	0.86
1:A:2183:GLU:CG	1:B:2111:GLU:CG	2.52	0.86
1:A:2318:GLU:HG2	1:E:2272:ARG:NH2	1.91	0.86
1:B:2172:MET:CE	1:C:2121:ALA:CA	2.53	0.86
1:A:2179:ILE:CG2	1:B:2110:GLY:O	2.24	0.86
1:B:2179:ILE:CG2	1:C:2110:GLY:O	2.24	0.86
1:A:2172:MET:HE3	1:B:2121:ALA:H	1.40	0.85
1:D:95:GLN:O	1:D:97:SER:N	2.09	0.85
1:D:2272:ARG:NH2	1:E:2318:GLU:HG2	1.90	0.85
1:D:2179:ILE:CG2	1:E:2110:GLY:O	2.24	0.85
1:A:2382:ASP:OD2	1:B:2404:ALA:N	2.10	0.85
1:B:2172:MET:O	1:C:2117:LEU:CD2	2.23	0.85
1:E:2333:ARG:NE	1:E:2401:ASP:OD2	2.10	0.85
1:A:2333:ARG:NE	1:A:2401:ASP:OD2	2.10	0.85
1:B:1029:SER:CB	1:C:1872:GLU:OE2	2.25	0.85
1:D:1244:THR:HG22	1:E:1808:HIS:HA	1.55	0.85
1:A:95:GLN:O	1:A:97:SER:N	2.09	0.84
1:A:2172:MET:O	1:B:2117:LEU:CD2	2.24	0.84
1:A:2172:MET:CE	1:B:2121:ALA:CA	2.54	0.84
1:B:2333:ARG:NE	1:B:2401:ASP:OD2	2.10	0.84
1:C:2176:ALA:H	1:D:2117:LEU:CD1	1.89	0.84
1:A:1244:THR:HG22	1:B:1808:HIS:HA	1.57	0.84
1:C:2272:ARG:NH2	1:D:2318:GLU:HG2	1.91	0.84
1:B:2468:LYS:CD	1:C:2327:ARG:NH1	2.40	0.84
1:C:2183:GLU:CG	1:D:2111:GLU:CG	2.55	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:95:GLN:O	1:E:97:SER:N	2.09	0.84
1:B:2169:ALA:HB2	1:C:2124:LEU:HD21	1.47	0.84
1:C:2179:ILE:CG2	1:D:2110:GLY:O	2.25	0.84
1:A:2110:GLY:O	1:E:2179:ILE:CG2	2.25	0.84
1:C:2172:MET:O	1:D:2117:LEU:CD2	2.25	0.84
1:D:1270:PHE:H	1:E:1808:HIS:CE1	1.96	0.84
1:A:2117:LEU:HD22	1:E:2176:ALA:HB3	0.85	0.84
1:B:1270:PHE:H	1:C:1808:HIS:CE1	1.95	0.84
1:B:2176:ALA:HB3	1:C:2117:LEU:HD22	0.84	0.84
1:C:1205:TYR:CD1	1:D:1072:ASP:OD2	2.30	0.84
1:A:2103:TYR:CB	1:A:2196:ARG:NH1	2.41	0.84
1:A:2327:ARG:NH1	1:E:2468:LYS:CD	2.41	0.84
1:C:2103:TYR:CB	1:C:2196:ARG:NH1	2.41	0.84
1:D:2382:ASP:OD2	1:E:2403:PRO:HB2	1.78	0.84
1:A:2382:ASP:OD2	1:B:2403:PRO:HB2	1.76	0.83
1:B:2382:ASP:OD2	1:C:2404:ALA:N	2.11	0.83
1:A:1808:HIS:CE1	1:E:1270:PHE:H	1.95	0.83
1:A:2272:ARG:NH2	1:B:2318:GLU:HG2	1.92	0.83
1:A:2121:ALA:CA	1:E:2172:MET:CE	2.56	0.83
1:D:2172:MET:HE3	1:E:2121:ALA:H	1.40	0.83
1:B:2272:ARG:NH2	1:C:2318:GLU:HG2	1.92	0.83
1:A:2404:ALA:N	1:E:2382:ASP:OD2	2.12	0.83
1:D:2176:ALA:H	1:E:2117:LEU:CD1	1.89	0.83
1:D:2333:ARG:NE	1:D:2401:ASP:OD2	2.10	0.83
1:B:1244:THR:HG22	1:C:1808:HIS:HA	1.60	0.83
1:B:2176:ALA:H	1:C:2117:LEU:CD1	1.90	0.83
1:A:2111:GLU:CG	1:E:2183:GLU:CG	2.57	0.83
1:D:2208:ALA:CB	1:E:2084:VAL:HG22	2.09	0.83
1:A:1808:HIS:HA	1:E:1244:THR:HG22	1.59	0.83
1:B:2103:TYR:CB	1:B:2196:ARG:NH1	2.41	0.83
1:A:2117:LEU:CD2	1:E:2172:MET:O	2.26	0.82
1:D:1092:LYS:HA	1:D:1594:GLN:HE22	1.44	0.82
1:B:1092:LYS:HA	1:B:1594:GLN:HE22	1.44	0.82
1:C:1092:LYS:HA	1:C:1594:GLN:HE22	1.44	0.82
1:D:1205:TYR:CD1	1:E:1072:ASP:OD2	2.32	0.82
1:C:2172:MET:HE3	1:D:2121:ALA:H	1.41	0.82
1:C:2272:ARG:HH21	1:D:2318:GLU:CG	1.91	0.82
1:E:2103:TYR:CB	1:E:2196:ARG:NH1	2.41	0.82
1:B:2183:GLU:CG	1:C:2111:GLU:CG	2.55	0.82
1:C:2333:ARG:NE	1:C:2401:ASP:OD2	2.10	0.82
1:A:1092:LYS:HA	1:A:1594:GLN:HE22	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2103:TYR:CB	1:D:2196:ARG:NH1	2.41	0.82
1:B:2172:MET:HE3	1:C:2121:ALA:H	1.38	0.82
1:B:2208:ALA:CB	1:C:2084:VAL:HG22	2.08	0.82
1:A:1584:LEU:HB3	1:A:1598:TRP:HB3	1.62	0.82
1:A:2124:LEU:HG	1:E:2165:MET:SD	2.19	0.82
1:B:1636:GLN:NE2	1:B:1639:LYS:O	2.13	0.82
1:C:2176:ALA:HB3	1:D:2117:LEU:HD22	0.82	0.82
1:A:2084:VAL:HG22	1:E:2208:ALA:CB	2.09	0.82
1:A:2208:ALA:CB	1:B:2084:VAL:HG22	2.09	0.82
1:C:1584:LEU:HB3	1:C:1598:TRP:HB3	1.62	0.82
1:C:2176:ALA:HB2	1:D:2117:LEU:CD1	2.10	0.82
1:D:2165:MET:SD	1:E:2124:LEU:HG	2.20	0.82
1:D:2176:ALA:HB3	1:E:2117:LEU:HD22	0.82	0.82
1:A:1205:TYR:CD1	1:B:1072:ASP:OD2	2.33	0.81
1:A:1636:GLN:NE2	1:A:1639:LYS:O	2.13	0.81
1:A:2169:ALA:HA	1:B:2124:LEU:CD1	1.93	0.81
1:D:2272:ARG:HH21	1:E:2318:GLU:CG	1.91	0.81
1:D:2468:LYS:CD	1:E:2327:ARG:NH1	2.43	0.81
1:E:1660:TRP:HD1	1:E:1661:PHE:O	1.62	0.81
1:B:2165:MET:SD	1:C:2124:LEU:HG	2.19	0.81
1:C:1636:GLN:NE2	1:C:1639:LYS:O	2.13	0.81
1:C:1660:TRP:O	1:C:1712:LYS:HG3	1.81	0.81
1:C:2208:ALA:CB	1:D:2084:VAL:HG22	2.10	0.81
1:E:1636:GLN:NE2	1:E:1639:LYS:O	2.13	0.81
1:D:1636:GLN:NE2	1:D:1639:LYS:O	2.13	0.81
1:D:1660:TRP:O	1:D:1712:LYS:HG3	1.81	0.81
1:D:2169:ALA:HA	1:E:2124:LEU:CD1	1.95	0.81
1:A:976:GLN:HB2	1:B:1971:ARG:NH2	1.95	0.81
1:A:2272:ARG:HH21	1:B:2318:GLU:CG	1.94	0.81
1:A:2117:LEU:CD1	1:E:2176:ALA:HB2	2.09	0.81
1:A:2468:LYS:CD	1:B:2327:ARG:NH1	2.43	0.81
1:B:1205:TYR:CD1	1:C:1072:ASP:OD2	2.33	0.81
1:B:2382:ASP:OD2	1:C:2403:PRO:HB2	1.80	0.81
1:A:1072:ASP:OD2	1:E:1205:TYR:CD1	2.34	0.81
1:A:1660:TRP:HD1	1:A:1661:PHE:O	1.62	0.81
1:A:2121:ALA:H	1:E:2172:MET:HE3	1.46	0.80
1:C:2468:LYS:CD	1:D:2327:ARG:NH1	2.44	0.80
1:B:1584:LEU:HB3	1:B:1598:TRP:HB3	1.62	0.80
1:D:1584:LEU:HB3	1:D:1598:TRP:HB3	1.62	0.80
1:A:2117:LEU:CD1	1:E:2176:ALA:H	1.91	0.80
1:A:2124:LEU:CD1	1:E:2169:ALA:HA	1.98	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2176:ALA:HB2	1:B:2117:LEU:CD1	2.10	0.80
1:C:1029:SER:HB3	1:D:1872:GLU:OE2	1.81	0.80
1:C:976:GLN:HB2	1:D:1971:ARG:NH2	1.97	0.80
1:D:2176:ALA:HB2	1:E:2117:LEU:CD1	2.11	0.80
1:C:2165:MET:SD	1:D:2124:LEU:HG	2.21	0.80
1:D:1660:TRP:HD1	1:D:1661:PHE:O	1.62	0.80
1:B:2027:ARG:NH2	1:B:2318:GLU:OE1	2.15	0.80
1:C:2027:ARG:NH2	1:C:2318:GLU:OE1	2.15	0.80
1:C:2169:ALA:HB2	1:D:2124:LEU:HD21	1.45	0.79
1:E:1092:LYS:HA	1:E:1594:GLN:HE22	1.44	0.79
1:A:2027:ARG:NH2	1:A:2318:GLU:OE1	2.15	0.79
1:B:2430:GLN:OE1	1:B:2497:GLN:NE2	2.16	0.79
1:A:2179:ILE:HG21	1:B:2114:ALA:N	1.98	0.79
1:C:1660:TRP:HD1	1:C:1661:PHE:O	1.62	0.79
1:D:1029:SER:HB3	1:E:1872:GLU:OE2	1.81	0.79
1:D:2430:GLN:OE1	1:D:2497:GLN:NE2	2.16	0.79
1:A:1082:LEU:HB3	1:A:1614:VAL:HG22	1.64	0.79
1:A:2176:ALA:HB3	1:B:2117:LEU:HD22	0.79	0.79
1:A:2318:GLU:CG	1:E:2272:ARG:HH21	1.93	0.79
1:D:976:GLN:HB2	1:E:1971:ARG:NH2	1.97	0.79
1:B:2176:ALA:HB2	1:C:2117:LEU:CD1	2.12	0.79
1:A:1660:TRP:O	1:A:1712:LYS:HG3	1.81	0.79
1:A:2403:PRO:HB2	1:E:2382:ASP:OD2	1.78	0.79
1:B:1082:LEU:HB3	1:B:1614:VAL:HG22	1.64	0.79
1:B:1660:TRP:HD1	1:B:1661:PHE:O	1.62	0.79
1:B:2172:MET:CG	1:C:2117:LEU:HG	2.13	0.79
1:A:2173:ASN:HA	1:B:2117:LEU:HD21	1.64	0.79
1:A:2176:ALA:CB	1:B:2117:LEU:HB3	2.12	0.79
1:E:2027:ARG:NH2	1:E:2318:GLU:OE1	2.15	0.79
1:B:976:GLN:HB2	1:C:1971:ARG:NH2	1.96	0.79
1:C:2258:LEU:HB2	1:D:2305:LEU:CD2	2.13	0.79
1:E:1584:LEU:HB3	1:E:1598:TRP:HB3	1.62	0.79
1:B:2272:ARG:HH21	1:C:2318:GLU:CG	1.94	0.79
1:C:2382:ASP:OD2	1:D:2403:PRO:HB2	1.79	0.79
1:B:1660:TRP:O	1:B:1712:LYS:HG3	1.81	0.79
1:D:2027:ARG:NH2	1:D:2318:GLU:OE1	2.15	0.79
1:E:1660:TRP:O	1:E:1712:LYS:HG3	1.81	0.78
1:E:2430:GLN:OE1	1:E:2497:GLN:NE2	2.15	0.78
1:A:2117:LEU:HG	1:E:2172:MET:CG	2.13	0.78
1:A:2430:GLN:OE1	1:A:2497:GLN:NE2	2.15	0.78
1:B:2278:GLN:OE1	1:B:2281:ARG:NH2	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1082:LEU:HB3	1:C:1614:VAL:HG22	1.64	0.78
1:B:1660:TRP:O	1:B:1712:LYS:HG2	1.84	0.78
1:E:2239:ALA:HB1	1:E:2243:ARG:HH12	1.48	0.78
1:E:2278:GLN:OE1	1:E:2281:ARG:NH2	2.17	0.78
1:D:1082:LEU:HB3	1:D:1614:VAL:HG22	1.64	0.78
1:C:2430:GLN:OE1	1:C:2497:GLN:NE2	2.16	0.78
1:A:1971:ARG:NH2	1:E:976:GLN:HB2	1.97	0.78
1:A:2205:GLN:HA	1:B:2087:LYS:HG2	1.66	0.78
1:C:2437:ASP:OD1	1:C:2438:LYS:N	2.16	0.78
1:E:1660:TRP:O	1:E:1712:LYS:HG2	1.84	0.78
1:A:2165:MET:SD	1:B:2124:LEU:HG	2.24	0.78
1:C:100:ALA:HB1	1:C:1950:PRO:HG3	1.67	0.78
1:C:2189:ARG:HG3	1:C:2189:ARG:HH11	1.50	0.78
1:A:2189:ARG:HH11	1:A:2189:ARG:HG3	1.49	0.77
1:B:100:ALA:HB1	1:B:1950:PRO:HG3	1.67	0.77
1:C:2169:ALA:HA	1:D:2124:LEU:CD1	1.95	0.77
1:D:2172:MET:CG	1:E:2117:LEU:HG	2.14	0.77
1:A:1809:GLY:O	1:A:1810:GLN:O	2.03	0.77
1:A:2239:ALA:HB1	1:A:2243:ARG:HH12	1.48	0.77
1:E:1103:ASN:ND2	1:E:1598:TRP:NE1	2.32	0.77
1:C:2239:ALA:HB1	1:C:2243:ARG:HH12	1.48	0.77
1:D:1272:ASP:OD2	1:E:1626:SER:CB	2.31	0.77
1:D:1660:TRP:O	1:D:1712:LYS:HG2	1.84	0.77
1:E:1082:LEU:HB3	1:E:1614:VAL:HG22	1.64	0.77
1:C:1103:ASN:ND2	1:C:1598:TRP:NE1	2.32	0.77
1:D:2239:ALA:HB1	1:D:2243:ARG:HH12	1.48	0.77
1:E:2437:ASP:OD1	1:E:2438:LYS:N	2.16	0.77
1:A:1270:PHE:H	1:B:1808:HIS:CE1	1.96	0.77
1:A:2278:GLN:OE1	1:A:2281:ARG:NH2	2.17	0.77
1:B:2239:ALA:HB1	1:B:2243:ARG:HH12	1.48	0.77
1:C:2278:GLN:OE1	1:C:2281:ARG:NH2	2.17	0.77
1:A:100:ALA:HB1	1:A:1950:PRO:HG3	1.67	0.77
1:A:1103:ASN:ND2	1:A:1598:TRP:NE1	2.32	0.77
1:B:1103:ASN:ND2	1:B:1598:TRP:NE1	2.32	0.77
1:B:1809:GLY:O	1:B:1810:GLN:O	2.03	0.77
1:C:2176:ALA:CB	1:D:2117:LEU:HB3	2.15	0.77
1:A:2117:LEU:HD21	1:E:2173:ASN:HA	1.66	0.77
1:D:2176:ALA:CB	1:E:2117:LEU:HB3	2.15	0.77
1:D:2179:ILE:HG21	1:E:2114:ALA:N	1.98	0.77
1:D:2278:GLN:OE1	1:D:2281:ARG:NH2	2.17	0.77
1:A:1872:GLU:OE2	1:E:1029:SER:HB3	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:100:ALA:HB1	1:D:1950:PRO:HG3	1.67	0.77
1:C:1774:TYR:OH	1:C:1848:TYR:OH	2.01	0.77
1:A:2437:ASP:OD1	1:A:2438:LYS:N	2.16	0.77
1:B:2179:ILE:HG21	1:C:2114:ALA:N	2.00	0.77
1:C:1272:ASP:OD2	1:D:1626:SER:CB	2.32	0.77
1:E:1809:GLY:O	1:E:1810:GLN:O	2.02	0.77
1:A:1660:TRP:O	1:A:1712:LYS:HG2	1.84	0.76
1:D:1103:ASN:ND2	1:D:1598:TRP:NE1	2.32	0.76
1:A:2305:LEU:CD2	1:E:2258:LEU:HB2	2.14	0.76
1:B:2189:ARG:HH11	1:B:2189:ARG:HG3	1.49	0.76
1:B:2208:ALA:HB1	1:C:2084:VAL:HG22	1.67	0.76
1:C:1981:LEU:HD13	1:C:1983:LEU:HG	1.68	0.76
1:D:1809:GLY:O	1:D:1810:GLN:O	2.03	0.76
1:B:2172:MET:HE2	1:C:2121:ALA:HB2	1.67	0.76
1:E:100:ALA:HB1	1:E:1950:PRO:HG3	1.67	0.76
1:E:1981:LEU:HD13	1:E:1983:LEU:HG	1.68	0.76
1:A:1029:SER:HB3	1:B:1872:GLU:OE2	1.84	0.76
1:A:2179:ILE:HG22	1:B:2110:GLY:O	1.85	0.76
1:C:1242:GLU:CB	1:D:1806:ILE:CG1	2.64	0.76
1:C:2205:GLN:HA	1:D:2087:LYS:HG2	1.66	0.76
1:D:2189:ARG:HH11	1:D:2189:ARG:HG3	1.49	0.76
1:B:2176:ALA:CB	1:C:2117:LEU:HB3	2.16	0.76
1:A:2273:CYS:HB3	1:A:2292:ILE:HG12	1.68	0.76
1:C:1809:GLY:O	1:C:1810:GLN:O	2.03	0.76
1:C:2272:ARG:NH2	1:D:2318:GLU:CG	2.48	0.76
1:C:1660:TRP:O	1:C:1712:LYS:HG2	1.84	0.76
1:C:2179:ILE:HG21	1:D:2114:ALA:N	1.99	0.76
1:E:2189:ARG:HH11	1:E:2189:ARG:HG3	1.49	0.76
1:B:1029:SER:HB3	1:C:1872:GLU:OE2	1.86	0.76
1:D:1242:GLU:CB	1:E:1806:ILE:CG1	2.64	0.76
1:E:2273:CYS:HB3	1:E:2292:ILE:HG12	1.68	0.76
1:A:1626:SER:CB	1:E:1272:ASP:OD2	2.31	0.75
1:B:2273:CYS:HB3	1:B:2292:ILE:HG12	1.68	0.75
1:A:1806:ILE:HG23	1:E:1242:GLU:CB	2.16	0.75
1:A:2108:ASN:ND2	1:E:2187:ARG:NH1	2.34	0.75
1:A:2172:MET:CG	1:B:2117:LEU:HG	2.16	0.75
1:B:2169:ALA:HA	1:C:2124:LEU:CD1	1.97	0.75
1:C:2173:ASN:HA	1:D:2117:LEU:HD21	1.67	0.75
1:D:2258:LEU:HB2	1:E:2305:LEU:CD2	2.14	0.75
1:C:2172:MET:CG	1:D:2117:LEU:HG	2.15	0.75
1:D:2205:GLN:HA	1:E:2087:LYS:HG2	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2189:ARG:HG3	1:D:2189:ARG:NH1	2.02	0.75
1:A:2084:VAL:HG22	1:E:2208:ALA:HB1	1.68	0.75
1:A:2169:ALA:HB3	1:B:2124:LEU:HD21	1.61	0.75
1:C:2169:ALA:HB3	1:D:2124:LEU:HD21	1.64	0.75
1:B:1272:ASP:OD2	1:C:1626:SER:CB	2.34	0.75
1:B:2437:ASP:OD1	1:B:2438:LYS:N	2.16	0.75
1:C:2382:ASP:OD2	1:D:2403:PRO:C	2.25	0.75
1:D:2169:ALA:HB3	1:E:2124:LEU:HD22	1.60	0.75
1:D:2208:ALA:HB1	1:E:2084:VAL:HG22	1.68	0.75
1:A:1981:LEU:HD13	1:A:1983:LEU:HG	1.67	0.75
1:A:1272:ASP:OD2	1:B:1626:SER:CB	2.33	0.75
1:D:1242:GLU:CB	1:E:1806:ILE:HG23	2.16	0.75
1:D:1981:LEU:HD13	1:D:1983:LEU:HG	1.68	0.75
1:D:2272:ARG:NH2	1:E:2318:GLU:CG	2.48	0.75
1:A:2258:LEU:HB2	1:B:2305:LEU:CD2	2.15	0.75
1:B:1660:TRP:CH2	1:B:1680:GLN:OE1	2.40	0.75
1:B:2173:ASN:HA	1:C:2117:LEU:HD21	1.67	0.75
1:B:2179:ILE:HG22	1:C:2110:GLY:O	1.86	0.75
1:C:1660:TRP:CH2	1:C:1680:GLN:OE1	2.40	0.75
1:A:2305:LEU:HD13	1:E:2254:LEU:HD11	1.70	0.74
1:D:2173:ASN:HA	1:E:2117:LEU:HD21	1.67	0.74
1:D:2382:ASP:OD2	1:E:2403:PRO:C	2.24	0.74
1:A:1660:TRP:CH2	1:A:1680:GLN:OE1	2.40	0.74
1:A:2272:ARG:NH2	1:B:2318:GLU:CG	2.50	0.74
1:C:2208:ALA:HB1	1:D:2084:VAL:HG22	1.69	0.74
1:E:1660:TRP:CH2	1:E:1680:GLN:OE1	2.40	0.74
1:A:2189:ARG:HG3	1:A:2189:ARG:NH1	2.02	0.74
1:D:1660:TRP:CH2	1:D:1680:GLN:OE1	2.40	0.74
1:D:2273:CYS:HB3	1:D:2292:ILE:HG12	1.68	0.74
1:A:2087:LYS:HG2	1:E:2205:GLN:HA	1.68	0.74
1:C:2187:ARG:NH1	1:D:2108:ASN:ND2	2.34	0.74
1:D:2179:ILE:HG22	1:E:2110:GLY:O	1.86	0.74
1:A:1155:LYS:HG3	1:A:1156:SER:H	1.53	0.74
1:A:2117:LEU:HB3	1:E:2176:ALA:CB	2.17	0.74
1:D:2437:ASP:OD1	1:D:2438:LYS:N	2.16	0.74
1:A:2114:ALA:N	1:E:2179:ILE:HG21	2.03	0.74
1:A:2205:GLN:N	1:B:2087:LYS:HG2	2.03	0.74
1:A:2208:ALA:HB1	1:B:2084:VAL:HG22	1.69	0.74
1:B:1981:LEU:HD13	1:B:1983:LEU:HG	1.67	0.74
1:B:2258:LEU:HB2	1:C:2305:LEU:CD2	2.15	0.74
1:C:2273:CYS:HB3	1:C:2292:ILE:HG12	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1155:LYS:HG3	1:D:1156:SER:H	1.53	0.74
1:A:2108:ASN:HD21	1:E:2187:ARG:NH1	1.84	0.74
1:B:1841:ALA:O	1:B:1842:GLN:HB2	1.88	0.74
1:C:2187:ARG:NH1	1:D:2108:ASN:HD21	1.86	0.74
1:D:2125:THR:O	1:D:2129:GLN:HG2	1.88	0.74
1:C:2179:ILE:HG22	1:D:2110:GLY:O	1.87	0.74
1:A:108:THR:HG22	1:A:110:SER:H	1.53	0.74
1:B:1155:LYS:HG3	1:B:1156:SER:H	1.53	0.73
1:B:2272:ARG:NH2	1:C:2318:GLU:CG	2.51	0.73
1:A:2187:ARG:NH1	1:B:2108:ASN:ND2	2.35	0.73
1:B:2189:ARG:HG3	1:B:2189:ARG:NH1	2.02	0.73
1:A:1841:ALA:O	1:A:1842:GLN:HB2	1.88	0.73
1:C:1242:GLU:CB	1:D:1806:ILE:HG23	2.18	0.73
1:E:2189:ARG:HG3	1:E:2189:ARG:NH1	2.02	0.73
1:A:1242:GLU:CB	1:B:1806:ILE:HG23	2.18	0.73
1:B:108:THR:HG22	1:B:110:SER:H	1.53	0.73
1:C:2125:THR:O	1:C:2129:GLN:HG2	1.88	0.73
1:D:2123:GLY:O	1:D:2126:THR:OG1	2.06	0.73
1:E:108:THR:HG22	1:E:110:SER:H	1.53	0.73
1:E:2079:ASP:OD1	1:E:2217:ARG:NH1	2.22	0.73
1:A:2125:THR:O	1:A:2129:GLN:HG2	1.88	0.73
1:B:2125:THR:O	1:B:2129:GLN:HG2	1.88	0.73
1:C:108:THR:HG22	1:C:110:SER:H	1.53	0.73
1:D:108:THR:HG22	1:D:110:SER:H	1.53	0.73
1:D:2079:ASP:OD1	1:D:2217:ARG:NH1	2.22	0.73
1:A:1261:ASN:H	1:A:1287:ARG:HH12	1.37	0.73
1:B:1261:ASN:H	1:B:1287:ARG:HH12	1.37	0.73
1:B:2187:ARG:NH1	1:C:2108:ASN:ND2	2.36	0.73
1:C:2189:ARG:HG3	1:C:2189:ARG:NH1	2.02	0.73
1:A:2403:PRO:C	1:E:2382:ASP:OD2	2.28	0.73
1:B:2205:GLN:HA	1:C:2087:LYS:HG2	1.69	0.73
1:C:1044:TYR:OH	1:D:1992:PRO:HG2	1.89	0.72
1:C:1261:ASN:H	1:C:1287:ARG:HH12	1.37	0.72
1:D:2187:ARG:NH1	1:E:2108:ASN:ND2	2.36	0.72
1:A:1223:GLU:OE1	1:A:1265:GLN:NE2	2.22	0.72
1:D:1237:ALA:HB3	1:D:1246:LEU:HB2	1.72	0.72
1:A:1237:ALA:HB3	1:A:1246:LEU:HB2	1.72	0.72
1:A:2079:ASP:OD1	1:A:2217:ARG:NH1	2.22	0.72
1:A:2382:ASP:OD2	1:B:2403:PRO:C	2.27	0.72
1:B:1223:GLU:OE1	1:B:1265:GLN:NE2	2.22	0.72
1:C:2079:ASP:OD1	1:C:2217:ARG:NH1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1044:TYR:OH	1:E:1992:PRO:HG2	1.88	0.72
1:E:2125:THR:O	1:E:2129:GLN:HG2	1.88	0.72
1:A:1242:GLU:CB	1:B:1806:ILE:CG1	2.66	0.72
1:A:2318:GLU:CG	1:E:2272:ARG:NH2	2.49	0.72
1:B:2079:ASP:OD1	1:B:2217:ARG:NH1	2.22	0.72
1:D:1223:GLU:OE1	1:D:1265:GLN:NE2	2.22	0.72
1:D:1261:ASN:H	1:D:1287:ARG:HH12	1.37	0.72
1:D:1660:TRP:CD2	1:D:1680:GLN:CA	2.73	0.72
1:D:2254:LEU:HD11	1:E:2305:LEU:HD13	1.70	0.72
1:E:1155:LYS:HG3	1:E:1156:SER:H	1.53	0.72
1:E:1223:GLU:OE1	1:E:1265:GLN:NE2	2.22	0.72
1:A:2110:GLY:O	1:E:2179:ILE:HG22	1.87	0.72
1:A:2254:LEU:HD11	1:B:2305:LEU:HD13	1.70	0.72
1:C:1660:TRP:CD2	1:C:1680:GLN:CA	2.73	0.72
1:D:2205:GLN:N	1:E:2087:LYS:HG2	2.04	0.72
1:E:1237:ALA:HB3	1:E:1246:LEU:HB2	1.71	0.72
1:B:2187:ARG:NH1	1:C:2108:ASN:HD21	1.87	0.72
1:C:1223:GLU:OE1	1:C:1265:GLN:NE2	2.22	0.72
1:C:2254:LEU:HD11	1:D:2305:LEU:HD13	1.72	0.72
1:E:1774:TYR:OH	1:E:1848:TYR:OH	2.01	0.72
1:A:1806:ILE:CG1	1:E:1242:GLU:CB	2.65	0.72
1:A:2087:LYS:HG2	1:E:2205:GLN:N	2.05	0.72
1:C:1155:LYS:HG3	1:C:1156:SER:H	1.53	0.72
1:C:2459:GLN:HE22	1:C:2471:PRO:HD3	1.55	0.72
1:E:1261:ASN:H	1:E:1287:ARG:HH12	1.37	0.72
1:A:2183:GLU:HG2	1:B:2111:GLU:HG3	1.72	0.71
1:B:2459:GLN:HE22	1:B:2471:PRO:HD3	1.55	0.71
1:C:1237:ALA:HB3	1:C:1246:LEU:HB2	1.72	0.71
1:C:1841:ALA:O	1:C:1842:GLN:HB2	1.88	0.71
1:A:1660:TRP:CD2	1:A:1680:GLN:CA	2.73	0.71
1:A:2187:ARG:NH1	1:B:2108:ASN:HD21	1.87	0.71
1:B:1237:ALA:HB3	1:B:1246:LEU:HB2	1.72	0.71
1:B:1242:GLU:CB	1:C:1806:ILE:HG23	2.19	0.71
1:D:1841:ALA:O	1:D:1842:GLN:HB2	1.88	0.71
1:C:2123:GLY:O	1:C:2126:THR:OG1	2.06	0.71
1:C:2205:GLN:N	1:D:2087:LYS:HG2	2.04	0.71
1:B:1041:PRO:HD2	1:B:1847:HIS:CD2	2.26	0.71
1:D:998:ASN:CB	1:E:1881:MET:SD	2.77	0.71
1:E:1660:TRP:CD2	1:E:1680:GLN:CA	2.73	0.71
1:B:1242:GLU:CB	1:C:1806:ILE:CG1	2.66	0.71
1:B:2254:LEU:HD11	1:C:2305:LEU:HD13	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1041:PRO:HD2	1:D:1847:HIS:CD2	2.26	0.71
1:D:2187:ARG:NH1	1:E:2108:ASN:HD21	1.87	0.71
1:A:1041:PRO:HD2	1:A:1847:HIS:CD2	2.26	0.71
1:A:1992:PRO:HG2	1:E:1044:TYR:OH	1.90	0.71
1:C:2205:GLN:CA	1:D:2087:LYS:HG2	2.21	0.71
1:D:2179:ILE:CG2	1:E:2114:ALA:CB	2.67	0.71
1:E:1841:ALA:O	1:E:1842:GLN:HB2	1.88	0.71
1:E:1041:PRO:HD2	1:E:1847:HIS:CD2	2.26	0.71
1:E:1677:TYR:HB2	1:E:1690:LEU:HD21	1.73	0.71
1:D:2102:LEU:CB	1:D:2192:TRP:CE3	2.74	0.71
1:D:2471:PRO:HG3	1:E:2327:ARG:HE	1.56	0.71
1:E:2459:GLN:HE22	1:E:2471:PRO:HD3	1.55	0.71
1:A:2459:GLN:HE22	1:A:2471:PRO:HD3	1.55	0.71
1:C:998:ASN:CB	1:D:1881:MET:SD	2.79	0.71
1:C:2102:LEU:CB	1:C:2192:TRP:CE3	2.74	0.71
1:A:1600:SER:HB3	1:A:1674:HIS:CE1	2.26	0.71
1:B:2205:GLN:N	1:C:2087:LYS:HG2	2.05	0.71
1:C:1041:PRO:HD2	1:C:1847:HIS:CD2	2.26	0.71
1:A:2102:LEU:CB	1:A:2192:TRP:CE3	2.74	0.70
1:B:2099:TYR:O	1:B:2103:TYR:N	2.20	0.70
1:C:2471:PRO:HG3	1:D:2327:ARG:HE	1.55	0.70
1:E:2102:LEU:HB3	1:E:2192:TRP:CE3	2.25	0.70
1:B:2102:LEU:HB3	1:B:2192:TRP:CE3	2.25	0.70
1:B:2382:ASP:OD2	1:C:2403:PRO:C	2.29	0.70
1:C:2102:LEU:HB3	1:C:2192:TRP:CE3	2.25	0.70
1:D:1038:VAL:HG13	1:D:1840:VAL:HG11	1.73	0.70
1:D:1600:SER:HB3	1:D:1674:HIS:CE1	2.26	0.70
1:A:2172:MET:O	1:B:2117:LEU:CG	2.39	0.70
1:D:2099:TYR:O	1:D:2103:TYR:N	2.20	0.70
1:B:2169:ALA:HB3	1:C:2124:LEU:HD21	1.65	0.70
1:A:118:TYR:O	1:A:122:LEU:CB	2.39	0.70
1:A:1660:TRP:CD2	1:A:1680:GLN:HA	2.27	0.70
1:B:1774:TYR:OH	1:B:1848:TYR:OH	2.01	0.70
1:B:2102:LEU:CB	1:B:2192:TRP:CE3	2.74	0.70
1:B:2123:GLY:O	1:B:2126:THR:OG1	2.06	0.70
1:C:1038:VAL:HG13	1:C:1840:VAL:HG11	1.73	0.70
1:C:2099:TYR:O	1:C:2103:TYR:N	2.20	0.70
1:D:2179:ILE:CB	1:E:2114:ALA:HB2	2.21	0.70
1:E:1660:TRP:CD2	1:E:1680:GLN:HA	2.27	0.70
1:E:2102:LEU:CB	1:E:2192:TRP:CE3	2.74	0.70
1:C:1824:ASP:O	1:C:1825:THR:OG1	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:118:TYR:O	1:E:122:LEU:CB	2.39	0.70
1:A:1677:TYR:HB2	1:A:1690:LEU:HD21	1.73	0.70
1:B:2103:TYR:HB2	1:B:2196:ARG:NH1	2.07	0.70
1:C:1660:TRP:CD2	1:C:1680:GLN:HA	2.27	0.70
1:D:1660:TRP:CD2	1:D:1680:GLN:HA	2.27	0.70
1:D:2205:GLN:CA	1:E:2087:LYS:HG2	2.21	0.70
1:A:2172:MET:HE2	1:B:2121:ALA:HB2	1.73	0.70
1:A:2205:GLN:CA	1:B:2087:LYS:HG2	2.20	0.70
1:B:1787:GLN:HB2	1:B:2011:GLU:OE2	1.91	0.70
1:D:2459:GLN:HE22	1:D:2471:PRO:HD3	1.55	0.70
1:B:2172:MET:O	1:C:2117:LEU:CG	2.40	0.70
1:B:2179:ILE:CB	1:C:2114:ALA:HB2	2.22	0.70
1:C:2447:ALA:HB3	1:D:2329:LEU:HD22	1.74	0.70
1:D:1787:GLN:HB2	1:D:2011:GLU:OE2	1.91	0.70
1:E:1648:PRO:HD3	1:E:1745:GLU:HG3	1.74	0.70
1:A:2102:LEU:HB3	1:A:2192:TRP:CE3	2.25	0.69
1:A:1648:PRO:HD3	1:A:1745:GLU:HG3	1.74	0.69
1:A:2471:PRO:HG3	1:B:2327:ARG:HE	1.58	0.69
1:B:1660:TRP:CD2	1:B:1680:GLN:HA	2.27	0.69
1:C:2179:ILE:CG2	1:D:2114:ALA:CB	2.68	0.69
1:C:118:TYR:O	1:C:122:LEU:CB	2.39	0.69
1:D:2094:SER:O	1:D:2098:SER:HB2	1.93	0.69
1:D:2102:LEU:HB3	1:D:2192:TRP:CE3	2.25	0.69
1:B:1600:SER:HB3	1:B:1674:HIS:CE1	2.26	0.69
1:C:1787:GLN:HB2	1:C:2011:GLU:OE2	1.91	0.69
1:C:2103:TYR:HB2	1:C:2196:ARG:NH1	2.07	0.69
1:E:2103:TYR:HB2	1:E:2196:ARG:NH1	2.07	0.69
1:A:998:ASN:CB	1:B:1881:MET:SD	2.80	0.69
1:A:1787:GLN:HB2	1:A:2011:GLU:OE2	1.91	0.69
1:A:2194:ILE:HG21	1:B:2099:TYR:CZ	2.27	0.69
1:A:1881:MET:SD	1:E:998:ASN:CB	2.79	0.69
1:A:1044:TYR:OH	1:B:1992:PRO:HG2	1.91	0.69
1:B:118:TYR:O	1:B:122:LEU:CB	2.39	0.69
1:E:1038:VAL:HG13	1:E:1840:VAL:HG11	1.73	0.69
1:E:1600:SER:HB3	1:E:1674:HIS:CE1	2.26	0.69
1:A:1038:VAL:HG13	1:A:1840:VAL:HG11	1.73	0.69
1:A:2123:GLY:O	1:A:2126:THR:OG1	2.06	0.69
1:B:2094:SER:O	1:B:2098:SER:HB2	1.93	0.69
1:C:2094:SER:O	1:C:2098:SER:HB2	1.93	0.69
1:B:2205:GLN:CA	1:C:2087:LYS:HG2	2.23	0.69
1:C:1600:SER:HB3	1:C:1674:HIS:CE1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1604:ARG:NH2	1:E:1635:PRO:O	2.26	0.69
1:E:2094:SER:O	1:E:2098:SER:HB2	1.93	0.69
1:A:2094:SER:O	1:A:2098:SER:HB2	1.93	0.69
1:B:1038:VAL:HG13	1:B:1840:VAL:HG11	1.73	0.69
1:C:2172:MET:O	1:D:2117:LEU:CG	2.41	0.69
1:C:2179:ILE:CB	1:D:2114:ALA:HB2	2.23	0.69
1:D:160:SER:OG	1:D:982:LYS:CD	2.41	0.69
1:A:160:SER:OG	1:A:982:LYS:CD	2.41	0.68
1:A:2179:ILE:CB	1:B:2114:ALA:HB2	2.22	0.68
1:B:160:SER:OG	1:B:982:LYS:CD	2.41	0.68
1:B:1026:LYS:HG3	1:B:1027:ARG:HG3	1.75	0.68
1:C:1026:LYS:HG3	1:C:1027:ARG:HG3	1.75	0.68
1:D:1648:PRO:HD3	1:D:1745:GLU:HG3	1.74	0.68
1:B:1044:TYR:OH	1:C:1992:PRO:HG2	1.93	0.68
1:D:1026:LYS:HG3	1:D:1027:ARG:HG3	1.75	0.68
1:D:1774:TYR:OH	1:D:1848:TYR:OH	2.01	0.68
1:D:2103:TYR:HB2	1:D:2196:ARG:NH1	2.07	0.68
1:D:2183:GLU:HG2	1:E:2111:GLU:HG3	1.73	0.68
1:D:2194:ILE:HG21	1:E:2099:TYR:CZ	2.28	0.68
1:E:1787:GLN:HB2	1:E:2011:GLU:OE2	1.91	0.68
1:A:1824:ASP:O	1:A:1825:THR:OG1	2.10	0.68
1:A:2327:ARG:HE	1:E:2471:PRO:HG3	1.59	0.68
1:B:2183:GLU:HG2	1:C:2111:GLU:HG3	1.75	0.68
1:C:1677:TYR:HB2	1:C:1690:LEU:HD21	1.73	0.68
1:E:2123:GLY:O	1:E:2126:THR:OG1	2.06	0.68
1:A:2099:TYR:O	1:A:2103:TYR:N	2.20	0.68
1:B:2179:ILE:CG2	1:C:2114:ALA:CB	2.68	0.68
1:D:118:TYR:O	1:D:122:LEU:CB	2.40	0.68
1:D:1677:TYR:HB2	1:D:1690:LEU:HD21	1.73	0.68
1:A:2169:ALA:CB	1:B:2124:LEU:CG	2.34	0.68
1:B:1604:ARG:NH2	1:B:1635:PRO:O	2.26	0.68
1:B:1648:PRO:HD3	1:B:1745:GLU:HG3	1.74	0.68
1:B:1677:TYR:HB2	1:B:1690:LEU:HD21	1.73	0.68
1:E:1824:ASP:O	1:E:1825:THR:OG1	2.10	0.68
1:A:2103:TYR:HB2	1:A:2196:ARG:NH1	2.07	0.68
1:D:2172:MET:O	1:E:2117:LEU:CG	2.40	0.68
1:E:1026:LYS:HG3	1:E:1027:ARG:HG3	1.75	0.68
1:E:2072:ASP:OD1	1:E:2224:LYS:HE2	1.94	0.68
1:A:1989:PRO:HB3	1:E:1032:ALA:HB3	1.74	0.68
1:A:2087:LYS:HG2	1:E:2205:GLN:CA	2.22	0.68
1:A:2176:ALA:CB	1:B:2117:LEU:HD13	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:160:SER:OG	1:C:982:LYS:CD	2.41	0.68
1:D:974:ASP:OD2	1:E:1880:LYS:NZ	2.21	0.68
1:D:2072:ASP:OD1	1:D:2224:LYS:HE2	1.94	0.68
1:D:2447:ALA:HB3	1:E:2329:LEU:HD22	1.75	0.68
1:A:2072:ASP:OD1	1:A:2224:LYS:HE2	1.94	0.68
1:B:1685:ASN:ND2	1:B:1745:GLU:OE2	2.27	0.68
1:B:2072:ASP:OD1	1:B:2224:LYS:HE2	1.94	0.68
1:C:2176:ALA:CB	1:D:2117:LEU:HD13	2.24	0.68
1:A:981:ILE:CD1	1:B:1973:ASN:HB2	2.24	0.68
1:A:1685:ASN:ND2	1:A:1745:GLU:OE2	2.27	0.68
1:B:2447:ALA:HB3	1:C:2329:LEU:HD22	1.76	0.68
1:C:1868:TYR:HE1	1:C:1970:LEU:HG	1.59	0.68
1:E:160:SER:OG	1:E:982:LYS:CD	2.41	0.68
1:B:1660:TRP:CD2	1:B:1680:GLN:CA	2.73	0.67
1:C:1604:ARG:NH2	1:C:1635:PRO:O	2.26	0.67
1:C:1648:PRO:HD3	1:C:1745:GLU:HG3	1.74	0.67
1:D:1868:TYR:HE1	1:D:1970:LEU:HG	1.59	0.67
1:A:1604:ARG:NH2	1:A:1635:PRO:O	2.26	0.67
1:A:2114:ALA:HB2	1:E:2179:ILE:CB	2.24	0.67
1:C:1790:ASP:OD1	1:C:1863:ARG:NH2	2.26	0.67
1:D:1604:ARG:NH2	1:D:1635:PRO:O	2.26	0.67
1:E:1685:ASN:ND2	1:E:1745:GLU:OE2	2.28	0.67
1:A:187:GLU:O	1:A:191:THR:CB	2.42	0.67
1:A:1026:LYS:HG3	1:A:1027:ARG:HG3	1.75	0.67
1:A:2117:LEU:CG	1:E:2172:MET:O	2.42	0.67
1:B:1790:ASP:OD1	1:B:1863:ARG:NH2	2.27	0.67
1:C:93:ASN:CG	1:C:1894:PRO:HB3	2.15	0.67
1:C:2072:ASP:OD1	1:C:2224:LYS:HE2	1.94	0.67
1:D:93:ASN:CG	1:D:1894:PRO:HB3	2.15	0.67
1:E:1806:ILE:HG13	1:E:1810:GLN:O	1.95	0.67
1:A:1790:ASP:OD1	1:A:1863:ARG:NH2	2.26	0.67
1:A:1868:TYR:HE1	1:A:1970:LEU:HG	1.59	0.67
1:C:2172:MET:HE2	1:D:2121:ALA:HB2	1.75	0.67
1:D:187:GLU:O	1:D:191:THR:CB	2.42	0.67
1:D:981:ILE:CD1	1:E:1973:ASN:HB2	2.24	0.67
1:B:1868:TYR:HE1	1:B:1970:LEU:HG	1.59	0.67
1:A:974:ASP:HB3	1:A:977:VAL:HG23	1.76	0.67
1:A:981:ILE:HD11	1:B:1973:ASN:HB2	1.77	0.67
1:A:2117:LEU:HD13	1:E:2176:ALA:CB	2.23	0.67
1:A:2176:ALA:H	1:B:2117:LEU:HD11	1.57	0.67
1:C:2029:MET:HE3	1:C:2272:ARG:HD2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1032:ALA:HB3	1:E:1989:PRO:HB3	1.76	0.67
1:D:1685:ASN:ND2	1:D:1745:GLU:OE2	2.27	0.67
1:E:187:GLU:O	1:E:191:THR:CB	2.42	0.67
1:A:2179:ILE:CG2	1:B:2114:ALA:CB	2.68	0.67
1:B:2172:MET:C	1:C:2117:LEU:HD21	2.14	0.67
1:D:1790:ASP:OD1	1:D:1863:ARG:NH2	2.26	0.67
1:E:136:TYR:HE2	1:E:1006:GLU:H	1.43	0.67
1:A:117:ALA:O	1:A:120:THR:N	2.28	0.67
1:A:136:TYR:HE2	1:A:1006:GLU:H	1.43	0.67
1:C:136:TYR:HE2	1:C:1006:GLU:H	1.43	0.67
1:C:974:ASP:HB3	1:C:977:VAL:HG23	1.76	0.67
1:A:93:ASN:CG	1:A:1894:PRO:HB3	2.15	0.67
1:A:2124:LEU:HD11	1:E:2165:MET:O	1.95	0.67
1:B:117:ALA:O	1:B:120:THR:N	2.28	0.67
1:B:136:TYR:HE2	1:B:1006:GLU:H	1.43	0.67
1:B:1824:ASP:O	1:B:1825:THR:OG1	2.10	0.67
1:C:1657:ASP:HA	1:C:1713:LYS:HD2	1.77	0.67
1:C:1685:ASN:ND2	1:C:1745:GLU:OE2	2.27	0.67
1:C:2176:ALA:H	1:D:2117:LEU:HD11	1.59	0.67
1:D:1806:ILE:HG13	1:D:1810:GLN:O	1.95	0.67
1:A:2179:ILE:HG22	1:B:2114:ALA:CB	2.23	0.67
1:B:1737:PRO:HB3	1:B:1741:LEU:HD13	1.77	0.67
1:C:2183:GLU:HG2	1:D:2111:GLU:HG3	1.74	0.67
1:A:2117:LEU:HD21	1:E:2172:MET:C	2.15	0.66
1:A:2329:LEU:HD22	1:E:2447:ALA:HB3	1.77	0.66
1:B:93:ASN:CG	1:B:1894:PRO:HB3	2.15	0.66
1:B:187:GLU:O	1:B:191:THR:CB	2.43	0.66
1:B:2471:PRO:HG3	1:C:2327:ARG:HE	1.59	0.66
1:C:2172:MET:C	1:D:2117:LEU:HD21	2.16	0.66
1:D:2172:MET:C	1:E:2117:LEU:HD21	2.14	0.66
1:D:2172:MET:HE2	1:E:2121:ALA:HB2	1.76	0.66
1:A:1737:PRO:HB3	1:A:1741:LEU:HD13	1.77	0.66
1:B:974:ASP:HB3	1:B:977:VAL:HG23	1.76	0.66
1:B:2194:ILE:HG21	1:C:2099:TYR:CZ	2.29	0.66
1:A:1806:ILE:HG13	1:A:1810:GLN:O	1.95	0.66
1:B:2165:MET:O	1:C:2124:LEU:HD11	1.95	0.66
1:D:2176:ALA:CB	1:E:2117:LEU:HD13	2.25	0.66
1:A:1032:ALA:HB3	1:B:1989:PRO:HB3	1.76	0.66
1:A:2111:GLU:HG3	1:E:2183:GLU:HG2	1.77	0.66
1:C:187:GLU:O	1:C:191:THR:CB	2.43	0.66
1:D:115:PRO:HG2	1:E:1986:TYR:CD1	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1657:ASP:HA	1:D:1713:LYS:HD2	1.77	0.66
1:E:974:ASP:HB3	1:E:977:VAL:HG23	1.76	0.66
1:C:1737:PRO:HB3	1:C:1741:LEU:HD13	1.77	0.66
1:D:1283:SER:O	1:D:1287:ARG:HG3	1.96	0.66
1:B:1806:ILE:HG13	1:B:1810:GLN:O	1.95	0.66
1:C:117:ALA:O	1:C:120:THR:N	2.28	0.66
1:C:2194:ILE:HG21	1:D:2099:TYR:CZ	2.30	0.66
1:A:184:LYS:O	1:A:188:MET:CB	2.44	0.66
1:A:2172:MET:C	1:B:2117:LEU:HD21	2.15	0.66
1:C:1664:TYR:CE2	1:C:1675:ILE:HG13	2.31	0.66
1:D:184:LYS:O	1:D:188:MET:CB	2.44	0.66
1:E:117:ALA:O	1:E:120:THR:N	2.28	0.66
1:E:1283:SER:O	1:E:1287:ARG:HG3	1.96	0.66
1:E:1657:ASP:HA	1:E:1713:LYS:HD2	1.77	0.66
1:A:2447:ALA:HB3	1:B:2329:LEU:HD22	1.78	0.66
1:B:1026:LYS:HZ3	1:C:1878:GLU:CD	1.98	0.66
1:B:1657:ASP:HA	1:B:1713:LYS:HD2	1.77	0.66
1:C:2382:ASP:CG	1:D:2404:ALA:H	1.98	0.66
1:D:136:TYR:HE2	1:D:1006:GLU:H	1.43	0.66
1:D:2382:ASP:CG	1:E:2404:ALA:H	1.99	0.66
1:E:1139:ASN:HB2	1:E:1842:GLN:OE1	1.96	0.66
1:E:1664:TYR:CE2	1:E:1675:ILE:HG13	2.31	0.66
1:E:2029:MET:HE3	1:E:2272:ARG:HD2	1.77	0.66
1:B:1168:TYR:CD2	1:B:1202:HIS:HB3	2.31	0.66
1:B:1218:ASN:O	1:B:1222:SER:HB2	1.96	0.66
1:C:1806:ILE:HG13	1:C:1810:GLN:O	1.95	0.66
1:E:184:LYS:O	1:E:188:MET:CB	2.44	0.66
1:A:1168:TYR:CD2	1:A:1202:HIS:HB3	2.31	0.66
1:A:2099:TYR:CZ	1:E:2194:ILE:HG21	2.31	0.66
1:C:1283:SER:O	1:C:1287:ARG:HG3	1.96	0.66
1:D:974:ASP:HB3	1:D:977:VAL:HG23	1.76	0.66
1:B:1032:ALA:HB3	1:C:1989:PRO:HB3	1.77	0.65
1:C:981:ILE:CD1	1:D:1973:ASN:HB2	2.25	0.65
1:C:1168:TYR:CD2	1:C:1202:HIS:HB3	2.31	0.65
1:D:1824:ASP:O	1:D:1825:THR:OG1	2.10	0.65
1:D:2169:ALA:HB3	1:E:2124:LEU:HD21	1.63	0.65
1:A:1880:LYS:NZ	1:E:974:ASP:OD2	2.20	0.65
1:B:184:LYS:O	1:B:188:MET:CB	2.44	0.65
1:D:1139:ASN:HB2	1:D:1842:GLN:OE1	1.96	0.65
1:D:1218:ASN:O	1:D:1222:SER:HB2	1.96	0.65
1:D:1295:ASP:OD1	1:D:1296:THR:N	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2176:ALA:CB	1:E:2117:LEU:CG	2.52	0.65
1:E:1295:ASP:OD1	1:E:1296:THR:N	2.28	0.65
1:E:1787:GLN:HB2	1:E:2011:GLU:CD	2.17	0.65
1:C:184:LYS:O	1:C:188:MET:CB	2.44	0.65
1:D:117:ALA:O	1:D:120:THR:N	2.28	0.65
1:D:1787:GLN:HB2	1:D:2011:GLU:CD	2.17	0.65
1:E:1218:ASN:O	1:E:1222:SER:HB2	1.96	0.65
1:A:1664:TYR:CE2	1:A:1675:ILE:HG13	2.31	0.65
1:D:1264:MET:SD	1:D:1287:ARG:HG2	2.36	0.65
1:B:998:ASN:CB	1:C:1881:MET:SD	2.82	0.65
1:D:1604:ARG:HB2	1:D:1637:LEU:HD21	1.79	0.65
1:D:2413:LYS:N	1:D:2512:ARG:O	2.26	0.65
1:E:1737:PRO:HB3	1:E:1741:LEU:HD13	1.77	0.65
1:A:1139:ASN:HB2	1:A:1842:GLN:OE1	1.96	0.65
1:C:1032:ALA:HB3	1:D:1989:PRO:HB3	1.79	0.65
1:D:1737:PRO:HB3	1:D:1741:LEU:HD13	1.77	0.65
1:E:93:ASN:CG	1:E:1894:PRO:HB3	2.15	0.65
1:E:1790:ASP:OD1	1:E:1863:ARG:NH2	2.26	0.65
1:E:1868:TYR:HE1	1:E:1970:LEU:HG	1.60	0.65
1:A:1657:ASP:HA	1:A:1713:LYS:HD2	1.77	0.65
1:A:1806:ILE:CG2	1:E:1242:GLU:CB	2.74	0.65
1:A:2165:MET:O	1:B:2124:LEU:HD11	1.97	0.65
1:A:2222:LEU:HD11	1:B:2073:LYS:CE	2.27	0.65
1:C:1026:LYS:HZ3	1:D:1878:GLU:CD	2.00	0.65
1:C:1787:GLN:HB2	1:C:2011:GLU:CD	2.17	0.65
1:D:2172:MET:CE	1:E:2121:ALA:HA	2.27	0.65
1:B:1264:MET:SD	1:B:1287:ARG:HG2	2.36	0.65
1:B:2176:ALA:H	1:C:2117:LEU:HD11	1.62	0.65
1:C:974:ASP:OD2	1:D:1880:LYS:NZ	2.23	0.65
1:C:1044:TYR:CZ	1:D:1992:PRO:CB	2.80	0.65
1:D:981:ILE:HD11	1:E:1973:ASN:HB2	1.78	0.65
1:D:1044:TYR:CZ	1:E:1992:PRO:HB2	2.31	0.65
1:D:1168:TYR:CD2	1:D:1202:HIS:HB3	2.31	0.65
1:D:1664:TYR:CE2	1:D:1675:ILE:HG13	2.31	0.65
1:A:1122:TYR:HD1	1:A:1146:LYS:HA	1.62	0.65
1:A:1787:GLN:HB2	1:A:2011:GLU:CD	2.17	0.65
1:B:1283:SER:O	1:B:1287:ARG:HG3	1.96	0.65
1:B:2176:ALA:CB	1:C:2117:LEU:HD13	2.26	0.65
1:D:1242:GLU:CB	1:E:1806:ILE:CG2	2.75	0.65
1:E:1168:TYR:CD2	1:E:1202:HIS:HB3	2.31	0.65
1:E:1264:MET:SD	1:E:1287:ARG:HG2	2.36	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2099:TYR:O	1:E:2103:TYR:N	2.20	0.65
1:A:1264:MET:SD	1:A:1287:ARG:HG2	2.36	0.65
1:A:2036:PHE:CE1	1:B:2308:GLU:CD	2.71	0.65
1:C:115:PRO:HG2	1:D:1986:TYR:CD1	2.32	0.65
1:D:2258:LEU:CB	1:E:2305:LEU:HD21	2.20	0.65
1:A:1283:SER:O	1:A:1287:ARG:HG3	1.96	0.64
1:B:1072:ASP:N	1:B:1072:ASP:OD1	2.28	0.64
1:B:1664:TYR:CE2	1:B:1675:ILE:HG13	2.31	0.64
1:C:2036:PHE:CE1	1:D:2308:GLU:CD	2.69	0.64
1:D:2165:MET:O	1:E:2124:LEU:HD11	1.97	0.64
1:A:1218:ASN:O	1:A:1222:SER:HB2	1.96	0.64
1:A:2382:ASP:CG	1:B:2404:ALA:H	2.00	0.64
1:C:1218:ASN:O	1:C:1222:SER:HB2	1.96	0.64
1:C:1264:MET:SD	1:C:1287:ARG:HG2	2.36	0.64
1:A:1072:ASP:OD1	1:A:1072:ASP:N	2.28	0.64
1:A:1973:ASN:HB2	1:E:981:ILE:CD1	2.27	0.64
1:A:2258:LEU:CB	1:B:2305:LEU:HD21	2.21	0.64
1:B:1787:GLN:HB2	1:B:2011:GLU:CD	2.17	0.64
1:D:1044:TYR:CZ	1:E:1992:PRO:CB	2.80	0.64
1:B:981:ILE:HD11	1:C:1973:ASN:HB2	1.79	0.64
1:B:1122:TYR:HD1	1:B:1146:LYS:HA	1.62	0.64
1:C:981:ILE:HD11	1:D:1973:ASN:HB2	1.78	0.64
1:C:1604:ARG:HB2	1:C:1637:LEU:HD21	1.79	0.64
1:C:1641:PHE:N	1:C:1692:ILE:O	2.28	0.64
1:C:2172:MET:CE	1:D:2121:ALA:HA	2.28	0.64
1:E:1122:TYR:HD1	1:E:1146:LYS:HA	1.62	0.64
1:E:2413:LYS:N	1:E:2512:ARG:O	2.26	0.64
1:A:2121:ALA:N	1:E:2172:MET:HE1	2.11	0.64
1:C:1139:ASN:HB2	1:C:1842:GLN:OE1	1.96	0.64
1:C:1242:GLU:CB	1:D:1806:ILE:CG2	2.76	0.64
1:C:2176:ALA:CB	1:D:2117:LEU:CD1	2.76	0.64
1:A:1973:ASN:HB2	1:E:981:ILE:HD11	1.79	0.64
1:C:2165:MET:O	1:D:2124:LEU:HD11	1.98	0.64
1:D:1624:ILE:HD12	1:D:1629:THR:HG21	1.80	0.64
1:D:2176:ALA:H	1:E:2117:LEU:HD11	1.60	0.64
1:A:1295:ASP:OD1	1:A:1296:THR:N	2.28	0.64
1:A:1986:TYR:CD1	1:E:115:PRO:HG2	2.33	0.64
1:C:2222:LEU:HD11	1:D:2073:LYS:CE	2.27	0.64
1:D:2036:PHE:CE1	1:E:2308:GLU:CD	2.71	0.64
1:D:2222:LEU:HD11	1:E:2073:LYS:CE	2.28	0.64
1:C:1122:TYR:HD1	1:C:1146:LYS:HA	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1072:ASP:OD1	1:D:1072:ASP:N	2.28	0.64
1:C:1072:ASP:N	1:C:1072:ASP:OD1	2.28	0.63
1:E:1604:ARG:HB2	1:E:1637:LEU:HD21	1.79	0.63
1:A:1604:ARG:HB2	1:A:1637:LEU:HD21	1.79	0.63
1:D:1122:TYR:HD1	1:D:1146:LYS:HA	1.62	0.63
1:E:144:ASP:OD2	1:E:171:GLU:OE1	2.16	0.63
1:E:1624:ILE:HD12	1:E:1629:THR:HG21	1.80	0.63
1:A:2201:ALA:HB1	1:B:2091:GLY:HA3	1.81	0.63
1:C:1122:TYR:CD1	1:C:1146:LYS:HA	2.33	0.63
1:A:144:ASP:OD2	1:A:171:GLU:OE1	2.16	0.63
1:A:974:ASP:OD2	1:B:1880:LYS:NZ	2.20	0.63
1:A:2404:ALA:H	1:E:2382:ASP:CG	2.02	0.63
1:B:1139:ASN:HB2	1:B:1842:GLN:OE1	1.96	0.63
1:C:1044:TYR:CZ	1:D:1992:PRO:HB2	2.32	0.63
1:D:1168:TYR:CE2	1:D:1202:HIS:HB3	2.34	0.63
1:D:2029:MET:HE3	1:D:2272:ARG:HD2	1.80	0.63
1:E:1168:TYR:CE2	1:E:1202:HIS:HB3	2.34	0.63
1:B:1242:GLU:CB	1:C:1806:ILE:CG2	2.77	0.63
1:B:1604:ARG:HB2	1:B:1637:LEU:HD21	1.79	0.63
1:E:1122:TYR:CD1	1:E:1146:LYS:HA	2.33	0.63
1:A:1204:ARG:HD3	1:A:1208:THR:HG23	1.81	0.63
1:A:1286:TYR:O	1:A:1290:SER:OG	2.15	0.63
1:A:2029:MET:HE3	1:A:2272:ARG:HD2	1.81	0.63
1:A:2165:MET:HG2	1:B:2127:ALA:HB3	1.80	0.63
1:B:1122:TYR:CD1	1:B:1146:LYS:HA	2.33	0.63
1:B:1624:ILE:HD12	1:B:1629:THR:HG21	1.80	0.63
1:B:2183:GLU:HG3	1:C:2111:GLU:HG2	1.79	0.63
1:A:2434:SER:OG	1:A:2435:TYR:N	2.32	0.63
1:B:144:ASP:OD2	1:B:171:GLU:OE1	2.16	0.63
1:D:1122:TYR:CD1	1:D:1146:LYS:HA	2.33	0.63
1:D:1204:ARG:HD3	1:D:1208:THR:HG23	1.81	0.63
1:A:1168:TYR:CE2	1:A:1202:HIS:HB3	2.34	0.63
1:C:2434:SER:OG	1:C:2435:TYR:N	2.32	0.63
1:E:2434:SER:OG	1:E:2435:TYR:N	2.32	0.63
1:A:1122:TYR:CD1	1:A:1146:LYS:HA	2.33	0.63
1:B:981:ILE:CD1	1:C:1973:ASN:HB2	2.28	0.63
1:B:1858:ASP:O	1:B:1862:ALA:HB2	1.99	0.63
1:B:2036:PHE:CE1	1:C:2308:GLU:CD	2.72	0.63
1:B:2172:MET:CE	1:C:2121:ALA:HA	2.28	0.63
1:C:1858:ASP:O	1:C:1862:ALA:HB2	1.99	0.63
1:E:1204:ARG:HD3	1:E:1208:THR:HG23	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1624:ILE:HD12	1:A:1629:THR:HG21	1.80	0.62
1:B:1168:TYR:CE2	1:B:1202:HIS:HB3	2.34	0.62
1:D:144:ASP:OD2	1:D:171:GLU:OE1	2.16	0.62
1:D:2434:SER:OG	1:D:2435:TYR:N	2.32	0.62
1:A:1858:ASP:O	1:A:1862:ALA:HB2	1.99	0.62
1:E:1072:ASP:N	1:E:1072:ASP:OD1	2.28	0.62
1:A:1242:GLU:CB	1:B:1806:ILE:CG2	2.76	0.62
1:A:1992:PRO:HB2	1:E:1044:TYR:CZ	2.34	0.62
1:B:1204:ARG:HD3	1:B:1208:THR:HG23	1.81	0.62
1:C:1295:ASP:OD1	1:C:1296:THR:N	2.28	0.62
1:C:1624:ILE:HD12	1:C:1629:THR:HG21	1.80	0.62
1:C:2106:ASN:O	1:C:2107:ILE:CG1	2.47	0.62
1:C:2447:ALA:HB3	1:D:2329:LEU:CD2	2.29	0.62
1:D:2106:ASN:O	1:D:2107:ILE:CG1	2.47	0.62
1:A:2183:GLU:HG3	1:B:2111:GLU:HG2	1.79	0.62
1:C:144:ASP:OD2	1:C:171:GLU:OE1	2.16	0.62
1:D:1954:GLU:O	1:D:1957:MET:N	2.33	0.62
1:A:1044:TYR:CZ	1:B:1992:PRO:HB2	2.34	0.62
1:A:2308:GLU:CD	1:E:2036:PHE:CE1	2.73	0.62
1:B:1954:GLU:O	1:B:1957:MET:N	2.33	0.62
1:C:1954:GLU:O	1:C:1957:MET:N	2.33	0.62
1:A:2169:ALA:CA	1:B:2124:LEU:HD11	2.03	0.62
1:A:2176:ALA:CB	1:B:2117:LEU:CD1	2.75	0.62
1:C:1204:ARG:HD3	1:C:1208:THR:HG23	1.81	0.62
1:D:2169:ALA:CA	1:E:2124:LEU:HD11	2.05	0.62
1:E:1641:PHE:N	1:E:1692:ILE:O	2.28	0.62
1:A:115:PRO:HG2	1:B:1986:TYR:CD1	2.34	0.62
1:A:1872:GLU:O	1:A:1875:THR:OG1	2.15	0.62
1:B:2434:SER:OG	1:B:2435:TYR:N	2.32	0.62
1:D:1026:LYS:NZ	1:E:1878:GLU:OE2	2.32	0.62
1:B:2189:ARG:HH11	1:B:2189:ARG:CG	2.13	0.62
1:B:2382:ASP:CG	1:C:2404:ALA:H	2.03	0.62
1:A:1044:TYR:CZ	1:B:1992:PRO:CB	2.83	0.62
1:A:1172:LEU:HA	1:A:1198:LEU:HA	1.82	0.62
1:B:1017:PHE:O	1:B:1025:ASN:ND2	2.33	0.62
1:E:1858:ASP:O	1:E:1862:ALA:HB2	1.99	0.62
1:A:1954:GLU:O	1:A:1957:MET:N	2.33	0.62
1:B:2106:ASN:O	1:B:2107:ILE:CG1	2.47	0.62
1:B:2460:PHE:CZ	1:C:2330:GLU:HB3	2.34	0.62
1:D:2201:ALA:HB1	1:E:2091:GLY:HA3	1.81	0.62
1:E:1954:GLU:O	1:E:1957:MET:N	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1153:PRO:HB3	1:A:1171:TRP:HB2	1.82	0.61
1:A:1992:PRO:CB	1:E:1044:TYR:CZ	2.83	0.61
1:C:1168:TYR:CE2	1:C:1202:HIS:HB3	2.34	0.61
1:C:1818:VAL:HG12	1:C:1820:PRO:HD2	1.82	0.61
1:D:1017:PHE:O	1:D:1025:ASN:ND2	2.33	0.61
1:D:1818:VAL:HG12	1:D:1820:PRO:HD2	1.82	0.61
1:B:2169:ALA:CB	1:C:2124:LEU:HD11	2.27	0.61
1:D:1172:LEU:HA	1:D:1198:LEU:HA	1.82	0.61
1:D:1858:ASP:O	1:D:1862:ALA:HB2	1.99	0.61
1:E:1172:LEU:HA	1:E:1198:LEU:HA	1.82	0.61
1:A:1774:TYR:OH	1:A:1848:TYR:OH	2.01	0.61
1:A:2106:ASN:O	1:A:2107:ILE:CG1	2.47	0.61
1:A:2117:LEU:HD11	1:E:2176:ALA:H	1.62	0.61
1:A:2212:SER:O	1:A:2215:VAL:N	2.33	0.61
1:C:1170:LEU:HB3	1:C:1200:LEU:HD13	1.83	0.61
1:C:2413:LYS:N	1:C:2512:ARG:O	2.26	0.61
1:A:1017:PHE:O	1:A:1025:ASN:ND2	2.33	0.61
1:A:1170:LEU:HB3	1:A:1200:LEU:HD13	1.83	0.61
1:A:1832:LEU:HG	1:A:1833:ASP:N	2.16	0.61
1:A:2124:LEU:HD21	1:E:2169:ALA:HB3	1.67	0.61
1:B:1295:ASP:OD1	1:B:1296:THR:N	2.28	0.61
1:C:1026:LYS:NZ	1:D:1878:GLU:OE2	2.33	0.61
1:C:2212:SER:O	1:C:2215:VAL:N	2.33	0.61
1:D:1832:LEU:HG	1:D:1833:ASP:N	2.16	0.61
1:E:1818:VAL:HG12	1:E:1820:PRO:HD2	1.82	0.61
1:A:1293:GLN:NE2	1:A:1304:ASN:OD1	2.34	0.61
1:B:1172:LEU:HA	1:B:1198:LEU:HA	1.82	0.61
1:C:2201:ALA:HB1	1:D:2091:GLY:HA3	1.83	0.61
1:D:2212:SER:O	1:D:2215:VAL:N	2.34	0.61
1:E:1818:VAL:HB	1:E:1821:LEU:HD12	1.83	0.61
1:B:1293:GLN:NE2	1:B:1304:ASN:OD1	2.34	0.61
1:B:2201:ALA:HB1	1:C:2091:GLY:HA3	1.83	0.61
1:D:1170:LEU:HB3	1:D:1200:LEU:HD13	1.83	0.61
1:E:2106:ASN:O	1:E:2107:ILE:CG1	2.47	0.61
1:A:2073:LYS:CE	1:E:2222:LEU:HD11	2.31	0.61
1:A:2460:PHE:CZ	1:B:2330:GLU:HB3	2.35	0.61
1:B:1818:VAL:HB	1:B:1821:LEU:HD12	1.83	0.61
1:B:2165:MET:HG2	1:C:2127:ALA:HB3	1.83	0.61
1:B:2176:ALA:CB	1:C:2117:LEU:CD1	2.78	0.61
1:C:1172:LEU:HA	1:C:1198:LEU:HA	1.82	0.61
1:D:1153:PRO:HB3	1:D:1171:TRP:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2447:ALA:HB3	1:E:2329:LEU:CD2	2.31	0.61
1:E:1170:LEU:HB3	1:E:1200:LEU:HD13	1.83	0.61
1:A:2189:ARG:HH11	1:A:2189:ARG:CG	2.13	0.61
1:A:2330:GLU:HB3	1:E:2460:PHE:CZ	2.34	0.61
1:D:1787:GLN:HB2	1:D:2011:GLU:OE1	2.01	0.61
1:E:1017:PHE:O	1:E:1025:ASN:ND2	2.33	0.61
1:E:1872:GLU:O	1:E:1875:THR:OG1	2.15	0.61
1:B:1168:TYR:HB3	1:B:1200:LEU:HD11	1.83	0.61
1:C:1832:LEU:HG	1:C:1833:ASP:N	2.16	0.61
1:C:2183:GLU:HG3	1:D:2111:GLU:HG2	1.80	0.61
1:E:2212:SER:O	1:E:2215:VAL:N	2.33	0.61
1:B:1044:TYR:CZ	1:C:1992:PRO:CB	2.84	0.61
1:B:1170:LEU:HB3	1:B:1200:LEU:HD13	1.83	0.61
1:C:1097:TYR:HD1	1:C:1303:ASN:HB2	1.66	0.61
1:C:1168:TYR:HB3	1:C:1200:LEU:HD11	1.83	0.61
1:C:1293:GLN:NE2	1:C:1304:ASN:OD1	2.34	0.61
1:D:2047:GLN:NE2	1:D:2252:ASN:OD1	2.34	0.61
1:A:1002:GLU:CG	1:B:1882:TRP:CH2	2.66	0.60
1:A:2121:ALA:HA	1:E:2172:MET:CE	2.31	0.60
1:A:2169:ALA:CB	1:B:2124:LEU:HD11	2.24	0.60
1:B:1819:ARG:O	1:B:1822:LEU:N	2.34	0.60
1:D:117:ALA:HA	1:D:1948:PHE:HE2	1.66	0.60
1:D:1293:GLN:NE2	1:D:1304:ASN:OD1	2.34	0.60
1:A:1641:PHE:N	1:A:1692:ILE:O	2.28	0.60
1:A:1787:GLN:HB2	1:A:2011:GLU:OE1	2.01	0.60
1:A:1818:VAL:HG12	1:A:1820:PRO:HD2	1.82	0.60
1:B:1660:TRP:CZ2	1:B:1680:GLN:OE1	2.55	0.60
1:B:1832:LEU:HG	1:B:1833:ASP:N	2.16	0.60
1:D:1168:TYR:HB3	1:D:1200:LEU:HD11	1.83	0.60
1:D:1819:ARG:O	1:D:1822:LEU:N	2.34	0.60
1:E:169:LEU:O	1:E:173:ILE:HG12	2.02	0.60
1:A:1622:ASP:O	1:E:1272:ASP:CG	2.38	0.60
1:B:115:PRO:HG2	1:C:1986:TYR:CD1	2.36	0.60
1:B:974:ASP:OD2	1:C:1880:LYS:NZ	2.22	0.60
1:B:2212:SER:O	1:B:2215:VAL:N	2.34	0.60
1:B:2222:LEU:HD11	1:C:2073:LYS:CE	2.30	0.60
1:C:2397:LYS:O	1:C:2400:GLU:HG2	2.02	0.60
1:E:1832:LEU:HG	1:E:1833:ASP:N	2.16	0.60
1:E:2047:GLN:NE2	1:E:2252:ASN:OD1	2.34	0.60
1:A:1996:LEU:HD12	1:E:1837:PRO:HG3	1.82	0.60
1:A:2111:GLU:HG2	1:E:2183:GLU:HG3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2173:ASN:CA	1:B:2117:LEU:HD21	2.31	0.60
1:E:1097:TYR:HD1	1:E:1303:ASN:HB2	1.66	0.60
1:A:1097:TYR:HD1	1:A:1303:ASN:HB2	1.66	0.60
1:A:1605:LEU:HA	1:A:1763:ALA:HB3	1.84	0.60
1:B:1605:LEU:HA	1:B:1763:ALA:HB3	1.84	0.60
1:B:1641:PHE:N	1:B:1692:ILE:O	2.28	0.60
1:C:117:ALA:HA	1:C:1948:PHE:HE2	1.66	0.60
1:C:1660:TRP:CZ2	1:C:1680:GLN:OE1	2.55	0.60
1:D:169:LEU:O	1:D:173:ILE:HG12	2.02	0.60
1:D:2179:ILE:HG22	1:E:2114:ALA:CB	2.23	0.60
1:D:2183:GLU:HG3	1:E:2111:GLU:HG2	1.79	0.60
1:E:1286:TYR:O	1:E:1290:SER:OG	2.15	0.60
1:A:2305:LEU:HD21	1:E:2258:LEU:CB	2.21	0.60
1:A:2397:LYS:O	1:A:2400:GLU:HG2	2.02	0.60
1:B:169:LEU:O	1:B:173:ILE:HG12	2.02	0.60
1:E:117:ALA:HA	1:E:1948:PHE:HE2	1.66	0.60
1:E:2330:GLU:HG3	1:E:2514:THR:HG22	1.84	0.60
1:A:1295:ASP:HB2	1:A:1301:ARG:HG3	1.84	0.60
1:A:2216:ARG:HA	1:B:2077:GLU:OE1	2.02	0.60
1:C:1017:PHE:O	1:C:1025:ASN:ND2	2.33	0.60
1:C:2165:MET:HG2	1:D:2127:ALA:HB3	1.83	0.60
1:C:2179:ILE:HG22	1:D:2114:ALA:CB	2.24	0.60
1:D:1837:PRO:HG3	1:E:1996:LEU:HD12	1.84	0.60
1:D:2165:MET:HG2	1:E:2127:ALA:HB3	1.82	0.60
1:D:2172:MET:HE1	1:E:2121:ALA:N	2.15	0.60
1:E:1295:ASP:HB2	1:E:1301:ARG:HG3	1.84	0.60
1:A:169:LEU:O	1:A:173:ILE:HG12	2.02	0.60
1:A:1818:VAL:HB	1:A:1821:LEU:HD12	1.83	0.60
1:A:2084:VAL:CG2	1:E:2208:ALA:HB1	2.32	0.60
1:B:1044:TYR:CZ	1:C:1992:PRO:HB2	2.36	0.60
1:B:1818:VAL:HG12	1:B:1820:PRO:HD2	1.82	0.60
1:D:1295:ASP:HB2	1:D:1301:ARG:HG3	1.84	0.60
1:E:1153:PRO:HB3	1:E:1171:TRP:HB2	1.83	0.60
1:E:1787:GLN:HB2	1:E:2011:GLU:OE1	2.01	0.60
1:A:1660:TRP:CZ2	1:A:1680:GLN:OE1	2.55	0.60
1:A:2172:MET:CE	1:B:2121:ALA:HA	2.29	0.60
1:C:1819:ARG:O	1:C:1822:LEU:N	2.34	0.60
1:D:1641:PHE:N	1:D:1692:ILE:O	2.28	0.60
1:E:1204:ARG:NH2	1:E:1210:ASN:HD21	2.00	0.60
1:E:2012:SER:OG	1:E:2443:ASN:OD1	2.15	0.60
1:A:2413:LYS:N	1:A:2512:ARG:O	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2172:MET:HE1	1:C:2121:ALA:HA	1.83	0.59
1:C:1153:PRO:HB3	1:C:1171:TRP:HB2	1.83	0.59
1:D:1097:TYR:HD1	1:D:1303:ASN:HB2	1.66	0.59
1:D:1272:ASP:CG	1:E:1622:ASP:O	2.40	0.59
1:E:1168:TYR:HB3	1:E:1200:LEU:HD11	1.83	0.59
1:A:1660:TRP:CG	1:A:1680:GLN:HA	2.37	0.59
1:A:1819:ARG:O	1:A:1822:LEU:N	2.34	0.59
1:B:1097:TYR:HD1	1:B:1303:ASN:HB2	1.66	0.59
1:B:1295:ASP:HB2	1:B:1301:ARG:HG3	1.84	0.59
1:B:1660:TRP:CG	1:B:1680:GLN:HA	2.37	0.59
1:B:2413:LYS:N	1:B:2512:ARG:O	2.26	0.59
1:C:1787:GLN:HB2	1:C:2011:GLU:OE1	2.01	0.59
1:D:1660:TRP:CZ2	1:D:1680:GLN:OE1	2.55	0.59
1:E:1660:TRP:CG	1:E:1680:GLN:HA	2.38	0.59
1:A:2091:GLY:HA3	1:E:2201:ALA:HB1	1.84	0.59
1:B:117:ALA:HA	1:B:1948:PHE:HE2	1.66	0.59
1:B:1302:VAL:HG12	1:B:1583:ALA:HB1	1.84	0.59
1:C:169:LEU:O	1:C:173:ILE:HG12	2.02	0.59
1:C:1818:VAL:HB	1:C:1821:LEU:HD12	1.83	0.59
1:D:2330:GLU:HG3	1:D:2514:THR:HG22	1.84	0.59
1:D:2460:PHE:CZ	1:E:2330:GLU:HB3	2.37	0.59
1:A:117:ALA:HA	1:A:1948:PHE:HE2	1.66	0.59
1:A:1168:TYR:HB3	1:A:1200:LEU:HD11	1.83	0.59
1:A:2121:ALA:HB2	1:E:2172:MET:HE2	1.83	0.59
1:A:2284:LEU:HD21	1:A:2324:ARG:HB2	1.85	0.59
1:B:1272:ASP:CG	1:C:1622:ASP:O	2.40	0.59
1:C:1204:ARG:NH2	1:C:1210:ASN:HD21	2.00	0.59
1:E:1293:GLN:NE2	1:E:1304:ASN:OD1	2.34	0.59
1:A:1026:LYS:NZ	1:B:1878:GLU:OE2	2.35	0.59
1:A:2501:LEU:HD23	1:A:2504:LEU:HD21	1.85	0.59
1:B:1787:GLN:HB2	1:B:2011:GLU:OE1	2.01	0.59
1:B:2029:MET:HE3	1:B:2272:ARG:HD2	1.84	0.59
1:B:2047:GLN:NE2	1:B:2252:ASN:OD1	2.34	0.59
1:C:2047:GLN:NE2	1:C:2252:ASN:OD1	2.34	0.59
1:C:2187:ARG:CZ	1:D:2108:ASN:HD21	2.15	0.59
1:D:2397:LYS:O	1:D:2400:GLU:HG2	2.02	0.59
1:E:1680:GLN:HG2	1:E:1681:LEU:O	2.03	0.59
1:A:1272:ASP:CG	1:B:1622:ASP:O	2.40	0.59
1:A:2208:ALA:HB1	1:B:2084:VAL:CG2	2.33	0.59
1:B:1204:ARG:NH2	1:B:1210:ASN:HD21	2.00	0.59
1:B:2397:LYS:O	1:B:2400:GLU:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2501:LEU:HD23	1:B:2504:LEU:HD21	1.85	0.59
1:C:1295:ASP:HB2	1:C:1301:ARG:HG3	1.84	0.59
1:C:1680:GLN:HG2	1:C:1681:LEU:O	2.03	0.59
1:A:1878:GLU:OE2	1:E:1026:LYS:NZ	2.35	0.59
1:B:2154:TRP:O	1:B:2158:ALA:CB	2.51	0.59
1:C:2154:TRP:O	1:C:2158:ALA:CB	2.51	0.59
1:D:1204:ARG:NH2	1:D:1210:ASN:HD21	2.00	0.59
1:D:1680:GLN:HG2	1:D:1681:LEU:O	2.03	0.59
1:E:1261:ASN:H	1:E:1287:ARG:NH1	2.01	0.59
1:E:1660:TRP:CZ2	1:E:1680:GLN:OE1	2.55	0.59
1:A:1680:GLN:HG2	1:A:1681:LEU:O	2.03	0.59
1:A:2047:GLN:NE2	1:A:2252:ASN:OD1	2.34	0.59
1:B:1153:PRO:HB3	1:B:1171:TRP:HB2	1.82	0.59
1:B:2330:GLU:HG3	1:B:2514:THR:HG22	1.84	0.59
1:B:2430:GLN:H	1:B:2497:GLN:HE22	1.50	0.59
1:D:1261:ASN:H	1:D:1287:ARG:NH1	2.01	0.59
1:D:2154:TRP:O	1:D:2158:ALA:CB	2.51	0.59
1:E:2154:TRP:O	1:E:2158:ALA:CB	2.51	0.59
1:A:2187:ARG:CZ	1:B:2108:ASN:HD21	2.16	0.59
1:B:2447:ALA:HB3	1:C:2329:LEU:CD2	2.32	0.59
1:C:1660:TRP:CG	1:C:1680:GLN:HA	2.38	0.59
1:C:2330:GLU:HG3	1:C:2514:THR:HG22	1.84	0.59
1:C:2501:LEU:HD23	1:C:2504:LEU:HD21	1.85	0.59
1:D:1218:ASN:O	1:D:1222:SER:CB	2.51	0.59
1:A:2461:GLN:HE21	1:B:2465:ASN:ND2	2.01	0.59
1:B:1680:GLN:HG2	1:B:1681:LEU:O	2.03	0.59
1:B:2208:ALA:HB1	1:C:2084:VAL:CG2	2.31	0.59
1:C:2284:LEU:HD21	1:C:2324:ARG:HB2	1.85	0.59
1:C:2460:PHE:CZ	1:D:2330:GLU:HB3	2.38	0.59
1:E:1819:ARG:O	1:E:1822:LEU:N	2.34	0.59
1:A:2124:LEU:HD11	1:E:2169:ALA:CB	2.26	0.58
1:A:2154:TRP:O	1:A:2158:ALA:CB	2.51	0.58
1:B:1093:VAL:HG12	1:B:1586:LEU:HD21	1.86	0.58
1:C:1605:LEU:HA	1:C:1763:ALA:HB3	1.84	0.58
1:D:1605:LEU:HA	1:D:1763:ALA:HB3	1.84	0.58
1:D:1633:GLN:HB3	1:D:1755:SER:HB2	1.85	0.58
1:D:2179:ILE:HB	1:E:2114:ALA:HB2	1.85	0.58
1:D:2430:GLN:H	1:D:2497:GLN:HE22	1.50	0.58
1:E:1633:GLN:HB3	1:E:1755:SER:HB2	1.85	0.58
1:A:2114:ALA:CB	1:E:2179:ILE:CG2	2.71	0.58
1:A:2329:LEU:CD2	1:E:2447:ALA:HB3	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2330:GLU:HG3	1:A:2514:THR:HG22	1.84	0.58
1:B:1872:GLU:O	1:B:1875:THR:OG1	2.15	0.58
1:C:1633:GLN:HB3	1:C:1755:SER:HB2	1.85	0.58
1:C:2013:PHE:HZ	1:D:2323:LYS:CG	2.13	0.58
1:C:2194:ILE:HG21	1:D:2099:TYR:HH	1.65	0.58
1:E:1302:VAL:HG12	1:E:1583:ALA:HB1	1.84	0.58
1:E:2430:GLN:H	1:E:2497:GLN:HE22	1.50	0.58
1:A:2108:ASN:HD21	1:E:2187:ARG:CZ	2.16	0.58
1:A:2222:LEU:HD12	1:B:2073:LYS:CD	2.29	0.58
1:D:1660:TRP:CG	1:D:1680:GLN:HA	2.38	0.58
1:D:2012:SER:OG	1:D:2443:ASN:OD1	2.15	0.58
1:D:2194:ILE:CG2	1:E:2099:TYR:OH	2.46	0.58
1:E:1865:ASP:O	1:E:1868:TYR:N	2.37	0.58
1:E:2189:ARG:HH11	1:E:2189:ARG:CG	2.13	0.58
1:A:1093:VAL:HG12	1:A:1586:LEU:HD21	1.86	0.58
1:A:1204:ARG:NH2	1:A:1210:ASN:HD21	2.00	0.58
1:B:1633:GLN:HB3	1:B:1755:SER:HB2	1.85	0.58
1:C:1050:ARG:HB2	1:C:1838:ASP:OD2	2.04	0.58
1:C:2172:MET:HE1	1:D:2121:ALA:HA	1.84	0.58
1:D:142:ARG:NH1	1:D:992:SER:OG	2.37	0.58
1:E:2397:LYS:O	1:E:2400:GLU:HG2	2.02	0.58
1:A:142:ARG:NH1	1:A:992:SER:OG	2.37	0.58
1:A:1291:TYR:O	1:A:1292:GLN:HG2	2.04	0.58
1:A:1633:GLN:HB3	1:A:1755:SER:HB2	1.85	0.58
1:A:2430:GLN:H	1:A:2497:GLN:HE22	1.50	0.58
1:B:186:MET:O	1:B:190:SER:CB	2.52	0.58
1:C:137:TYR:HE2	1:C:139:ASP:HB2	1.69	0.58
1:C:1286:TYR:O	1:C:1290:SER:OG	2.15	0.58
1:C:1291:TYR:O	1:C:1292:GLN:HG2	2.04	0.58
1:D:1050:ARG:HB2	1:D:1838:ASP:OD2	2.04	0.58
1:D:1302:VAL:HG12	1:D:1583:ALA:HB1	1.84	0.58
1:D:1818:VAL:HB	1:D:1821:LEU:HD12	1.83	0.58
1:D:2501:LEU:HD23	1:D:2504:LEU:HD21	1.85	0.58
1:E:142:ARG:NH1	1:E:992:SER:OG	2.37	0.58
1:E:1093:VAL:HG12	1:E:1586:LEU:HD21	1.86	0.58
1:B:93:ASN:OD1	1:B:1894:PRO:HD3	2.04	0.58
1:B:137:TYR:HE2	1:B:139:ASP:HB2	1.69	0.58
1:B:1832:LEU:HG	1:B:1833:ASP:H	1.68	0.58
1:C:183:THR:O	1:C:187:GLU:CB	2.52	0.58
1:D:2208:ALA:HB1	1:E:2084:VAL:CG2	2.32	0.58
1:A:1218:ASN:O	1:A:1222:SER:CB	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:142:ARG:NH1	1:B:992:SER:OG	2.36	0.58
1:B:183:THR:O	1:B:187:GLU:CB	2.52	0.58
1:B:1218:ASN:O	1:B:1222:SER:CB	2.51	0.58
1:C:1832:LEU:HG	1:C:1833:ASP:H	1.68	0.58
1:C:2430:GLN:H	1:C:2497:GLN:HE22	1.50	0.58
1:E:1291:TYR:O	1:E:1292:GLN:HG2	2.04	0.58
1:E:2501:LEU:HD23	1:E:2504:LEU:HD21	1.85	0.58
1:A:183:THR:O	1:A:187:GLU:CB	2.52	0.58
1:A:2121:ALA:HB2	1:E:2172:MET:CE	2.34	0.58
1:B:2284:LEU:HD21	1:B:2324:ARG:HB2	1.85	0.58
1:C:1261:ASN:H	1:C:1287:ARG:NH1	2.01	0.58
1:C:2222:LEU:CD1	1:D:2073:LYS:HD2	2.30	0.58
1:D:994:GLN:O	1:D:998:ASN:ND2	2.37	0.58
1:D:1832:LEU:HG	1:D:1833:ASP:H	1.68	0.58
1:E:1260:LYS:HA	1:E:1287:ARG:HH22	1.69	0.58
1:A:186:MET:O	1:A:190:SER:CB	2.52	0.58
1:A:1961:GLN:O	1:A:1965:GLN:HG2	2.04	0.58
1:C:142:ARG:NH1	1:C:992:SER:OG	2.37	0.58
1:C:1664:TYR:HB3	1:C:1673:SER:O	2.04	0.58
1:C:2253:TRP:CD1	1:D:2301:TYR:CE2	2.92	0.58
1:D:183:THR:O	1:D:187:GLU:CB	2.52	0.58
1:E:183:THR:O	1:E:187:GLU:CB	2.52	0.58
1:E:1050:ARG:HB2	1:E:1838:ASP:OD2	2.04	0.58
1:E:1605:LEU:HA	1:E:1763:ALA:HB3	1.84	0.58
1:E:1664:TYR:HB3	1:E:1673:SER:O	2.04	0.58
1:E:1951:GLN:HG3	1:E:1952:ILE:H	1.69	0.58
1:E:2284:LEU:HD21	1:E:2324:ARG:HB2	1.84	0.58
1:E:2360:LEU:HD22	1:E:2375:LEU:HD23	1.86	0.58
1:A:93:ASN:OD1	1:A:1894:PRO:HD3	2.04	0.58
1:A:1302:VAL:HG12	1:A:1583:ALA:HB1	1.84	0.58
1:A:2012:SER:OG	1:A:2443:ASN:OD1	2.15	0.58
1:B:1026:LYS:NZ	1:C:1878:GLU:OE2	2.37	0.58
1:B:2179:ILE:HG22	1:C:2114:ALA:CB	2.24	0.58
1:D:2173:ASN:CA	1:E:2117:LEU:HD21	2.34	0.58
1:D:2216:ARG:HA	1:E:2077:GLU:OE1	2.03	0.58
1:D:2360:LEU:HD22	1:D:2375:LEU:HD23	1.86	0.58
1:E:93:ASN:OD1	1:E:1894:PRO:HD3	2.04	0.58
1:E:1218:ASN:O	1:E:1222:SER:CB	2.51	0.58
1:A:1865:ASP:O	1:A:1868:TYR:N	2.37	0.57
1:A:2124:LEU:HD22	1:E:2169:ALA:HB3	1.63	0.57
1:B:1069:LEU:HD22	1:B:1782:ARG:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1291:TYR:O	1:B:1292:GLN:HG2	2.04	0.57
1:B:1865:ASP:O	1:B:1868:TYR:N	2.37	0.57
1:B:1961:GLN:O	1:B:1965:GLN:HG2	2.04	0.57
1:C:1093:VAL:HG12	1:C:1586:LEU:HD21	1.85	0.57
1:C:2360:LEU:HD22	1:C:2375:LEU:HD23	1.86	0.57
1:D:2172:MET:HE3	1:E:2121:ALA:CA	2.28	0.57
1:E:1832:LEU:HG	1:E:1833:ASP:H	1.68	0.57
1:E:1961:GLN:O	1:E:1965:GLN:HG2	2.04	0.57
1:A:137:TYR:HE2	1:A:139:ASP:HB2	1.69	0.57
1:A:1597:GLN:OE1	1:A:1602:ARG:NH2	2.37	0.57
1:A:1951:GLN:HG3	1:A:1952:ILE:H	1.69	0.57
1:A:2098:SER:HG	1:E:2194:ILE:CD1	2.12	0.57
1:A:2183:GLU:CD	1:B:2111:GLU:CG	2.73	0.57
1:C:1069:LEU:HD22	1:C:1782:ARG:HD2	1.86	0.57
1:C:2222:LEU:HD12	1:D:2073:LYS:CD	2.29	0.57
1:D:1093:VAL:HG12	1:D:1586:LEU:HD21	1.86	0.57
1:D:1260:LYS:HA	1:D:1287:ARG:HH22	1.69	0.57
1:D:1951:GLN:HG3	1:D:1952:ILE:H	1.69	0.57
1:D:1961:GLN:O	1:D:1965:GLN:HG2	2.04	0.57
1:A:2172:MET:HE1	1:B:2121:ALA:HA	1.85	0.57
1:A:2447:ALA:HB3	1:B:2329:LEU:CD2	2.33	0.57
1:B:1050:ARG:HB2	1:B:1838:ASP:OD2	2.04	0.57
1:B:1664:TYR:HB3	1:B:1673:SER:O	2.04	0.57
1:C:93:ASN:OD1	1:C:1894:PRO:HD3	2.04	0.57
1:C:1773:TYR:O	1:C:1776:PRO:HD2	2.05	0.57
1:C:2216:ARG:HA	1:D:2077:GLU:OE1	2.04	0.57
1:D:137:TYR:HE2	1:D:139:ASP:HB2	1.69	0.57
1:D:2172:MET:HE1	1:E:2121:ALA:HA	1.84	0.57
1:D:2176:ALA:CB	1:E:2117:LEU:CD1	2.77	0.57
1:D:2284:LEU:HD21	1:D:2324:ARG:HB2	1.85	0.57
1:E:137:TYR:HE2	1:E:139:ASP:HB2	1.69	0.57
1:E:162:LEU:O	1:E:166:ASN:ND2	2.38	0.57
1:A:1050:ARG:HB2	1:A:1838:ASP:OD2	2.04	0.57
1:A:1664:TYR:HB3	1:A:1673:SER:O	2.04	0.57
1:C:1302:VAL:HG12	1:C:1583:ALA:HB1	1.84	0.57
1:C:1961:GLN:O	1:C:1965:GLN:HG2	2.04	0.57
1:D:186:MET:O	1:D:190:SER:CB	2.52	0.57
1:D:2245:PHE:HD2	1:E:2044:ILE:HG21	1.70	0.57
1:D:2253:TRP:CD1	1:E:2301:TYR:CE2	2.92	0.57
1:A:162:LEU:O	1:A:166:ASN:ND2	2.38	0.57
1:A:969:GLN:HB3	1:A:999:ARG:NH1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1130:LYS:HB2	1:A:1140:ALA:HB2	1.87	0.57
1:A:1837:PRO:HG3	1:B:1996:LEU:HD12	1.84	0.57
1:A:2245:PHE:HD2	1:B:2044:ILE:HG21	1.70	0.57
1:B:162:LEU:O	1:B:166:ASN:ND2	2.38	0.57
1:B:1260:LYS:HA	1:B:1287:ARG:HH22	1.69	0.57
1:B:1597:GLN:OE1	1:B:1602:ARG:NH2	2.37	0.57
1:B:1837:PRO:HG3	1:C:1996:LEU:HD12	1.85	0.57
1:C:186:MET:O	1:C:190:SER:CB	2.52	0.57
1:B:1261:ASN:H	1:B:1287:ARG:NH1	2.01	0.57
1:B:2179:ILE:HB	1:C:2114:ALA:HB2	1.85	0.57
1:C:1002:GLU:CG	1:D:1882:TRP:CH2	2.68	0.57
1:C:1218:ASN:O	1:C:1222:SER:CB	2.51	0.57
1:C:1865:ASP:O	1:C:1868:TYR:N	2.37	0.57
1:D:1841:ALA:O	1:D:1842:GLN:CB	2.53	0.57
1:D:2172:MET:CE	1:E:2121:ALA:HB2	2.34	0.57
1:D:2172:MET:HE1	1:E:2121:ALA:CA	2.34	0.57
1:B:2187:ARG:CZ	1:C:2108:ASN:HD21	2.18	0.57
1:C:2172:MET:CE	1:D:2121:ALA:HB2	2.34	0.57
1:D:1069:LEU:HD22	1:D:1782:ARG:HD2	1.86	0.57
1:D:1291:TYR:O	1:D:1292:GLN:HG2	2.04	0.57
1:D:2013:PHE:HZ	1:E:2323:LYS:CG	2.14	0.57
1:E:969:GLN:HB3	1:E:999:ARG:NH1	2.19	0.57
1:B:1130:LYS:HB2	1:B:1140:ALA:HB2	1.87	0.57
1:B:2194:ILE:CG2	1:C:2099:TYR:OH	2.47	0.57
1:C:1260:LYS:HA	1:C:1287:ARG:HH22	1.69	0.57
1:C:2189:ARG:HH11	1:C:2189:ARG:CG	2.13	0.57
1:D:969:GLN:HB3	1:D:999:ARG:NH1	2.19	0.57
1:D:1286:TYR:O	1:D:1290:SER:OG	2.15	0.57
1:D:1664:TYR:HB3	1:D:1673:SER:O	2.04	0.57
1:D:1773:TYR:O	1:D:1776:PRO:HD2	2.05	0.57
1:D:2189:ARG:HH11	1:D:2189:ARG:CG	2.13	0.57
1:A:1599:GLN:HB3	1:A:1601:TYR:CD2	2.40	0.57
1:C:930:GLN:HA	1:C:933:THR:HG22	1.87	0.57
1:C:1597:GLN:OE1	1:C:1602:ARG:NH2	2.37	0.57
1:C:1837:PRO:HG3	1:D:1996:LEU:HD12	1.86	0.57
1:C:1951:GLN:HG3	1:C:1952:ILE:H	1.69	0.57
1:C:2461:GLN:HE21	1:D:2465:ASN:ND2	2.02	0.57
1:D:93:ASN:OD1	1:D:1894:PRO:HD3	2.04	0.57
1:E:186:MET:O	1:E:190:SER:CB	2.52	0.57
1:E:1130:LYS:HB2	1:E:1140:ALA:HB2	1.87	0.57
1:A:2173:ASN:HA	1:B:2117:LEU:CD2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2179:ILE:HB	1:B:2114:ALA:HB2	1.85	0.57
1:A:2360:LEU:HD22	1:A:2375:LEU:HD23	1.86	0.57
1:B:930:GLN:HA	1:B:933:THR:HG22	1.87	0.57
1:B:1599:GLN:HB3	1:B:1601:TYR:CD2	2.40	0.57
1:B:1951:GLN:HG3	1:B:1952:ILE:H	1.69	0.57
1:D:1865:ASP:O	1:D:1868:TYR:N	2.37	0.57
1:D:2187:ARG:CZ	1:E:2108:ASN:HD21	2.17	0.57
1:D:2461:GLN:HE21	1:E:2465:ASN:ND2	2.02	0.57
1:E:137:TYR:CE2	1:E:139:ASP:HB2	2.40	0.57
1:E:994:GLN:O	1:E:998:ASN:ND2	2.37	0.57
1:E:1597:GLN:OE1	1:E:1602:ARG:NH2	2.37	0.57
1:A:137:TYR:CE2	1:A:139:ASP:HB2	2.40	0.56
1:A:1069:LEU:HD22	1:A:1782:ARG:HD2	1.87	0.56
1:A:1260:LYS:HA	1:A:1287:ARG:HH22	1.69	0.56
1:A:1773:TYR:O	1:A:1776:PRO:HD2	2.05	0.56
1:A:1832:LEU:HG	1:A:1833:ASP:H	1.68	0.56
1:A:1841:ALA:O	1:A:1842:GLN:CB	2.53	0.56
1:A:2117:LEU:HD21	1:E:2173:ASN:CA	2.34	0.56
1:B:1773:TYR:O	1:B:1776:PRO:HD2	2.05	0.56
1:B:2016:LEU:CD1	1:C:2327:ARG:HB2	2.35	0.56
1:B:2172:MET:CE	1:C:2121:ALA:HB2	2.33	0.56
1:C:137:TYR:CE2	1:C:139:ASP:HB2	2.40	0.56
1:C:2258:LEU:CB	1:D:2305:LEU:HD21	2.19	0.56
1:D:1597:GLN:OE1	1:D:1602:ARG:NH2	2.37	0.56
1:D:1898:LEU:HD11	1:D:1952:ILE:HD12	1.88	0.56
1:A:2121:ALA:CA	1:E:2172:MET:HE1	2.35	0.56
1:A:2127:ALA:HB3	1:E:2165:MET:HG2	1.86	0.56
1:A:2222:LEU:CD1	1:B:2073:LYS:HD2	2.29	0.56
1:A:2253:TRP:CD1	1:B:2301:TYR:CE2	2.93	0.56
1:B:1736:ASN:HB3	1:B:1738:LYS:NZ	2.20	0.56
1:C:969:GLN:HB3	1:C:999:ARG:NH1	2.19	0.56
1:D:1002:GLU:CG	1:E:1882:TRP:CH2	2.66	0.56
1:D:1676:ILE:HG13	1:D:1677:TYR:H	1.70	0.56
1:A:1261:ASN:H	1:A:1287:ARG:NH1	2.01	0.56
1:A:2044:ILE:HG21	1:E:2245:PHE:HD2	1.71	0.56
1:A:2117:LEU:CD1	1:E:2176:ALA:CB	2.76	0.56
1:B:2360:LEU:HD22	1:B:2375:LEU:HD23	1.86	0.56
1:C:162:LEU:O	1:C:166:ASN:ND2	2.38	0.56
1:C:994:GLN:O	1:C:998:ASN:ND2	2.37	0.56
1:C:1130:LYS:HB2	1:C:1140:ALA:HB2	1.87	0.56
1:C:2172:MET:HE1	1:D:2121:ALA:N	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:162:LEU:O	1:D:166:ASN:ND2	2.38	0.56
1:D:930:GLN:HA	1:D:933:THR:HG22	1.87	0.56
1:E:1736:ASN:HB3	1:E:1738:LYS:NZ	2.20	0.56
1:E:1898:LEU:HD11	1:E:1952:ILE:HD12	1.87	0.56
1:A:1676:ILE:HG13	1:A:1677:TYR:H	1.70	0.56
1:A:2118:ARG:NH2	1:A:2177:ASP:OD2	2.39	0.56
1:C:1872:GLU:O	1:C:1875:THR:OG1	2.15	0.56
1:C:2169:ALA:CA	1:D:2124:LEU:HD11	2.05	0.56
1:C:2208:ALA:HB1	1:D:2084:VAL:CG2	2.33	0.56
1:C:2419:LEU:HD12	1:C:2429:VAL:HG11	1.88	0.56
1:E:1069:LEU:HD22	1:E:1782:ARG:HD2	1.86	0.56
1:E:1599:GLN:HB3	1:E:1601:TYR:CD2	2.40	0.56
1:A:1878:GLU:CD	1:E:1026:LYS:HZ3	2.07	0.56
1:A:2099:TYR:HH	1:E:2194:ILE:HG21	1.70	0.56
1:A:2465:ASN:ND2	1:E:2461:GLN:HE21	2.03	0.56
1:B:969:GLN:HB3	1:B:999:ARG:NH1	2.19	0.56
1:B:2429:VAL:O	1:B:2451:SER:HA	2.06	0.56
1:C:1898:LEU:HD11	1:C:1952:ILE:HD12	1.88	0.56
1:C:2179:ILE:HB	1:D:2114:ALA:HB2	1.87	0.56
1:B:141:ARG:HD3	1:B:970:TYR:O	2.06	0.56
1:B:1676:ILE:HG13	1:B:1677:TYR:H	1.70	0.56
1:B:2118:ARG:NH2	1:B:2177:ASP:OD2	2.39	0.56
1:D:1130:LYS:HB2	1:D:1140:ALA:HB2	1.87	0.56
1:D:2419:LEU:HD12	1:D:2429:VAL:HG11	1.88	0.56
1:E:1773:TYR:O	1:E:1776:PRO:HD2	2.05	0.56
1:E:2419:LEU:HD12	1:E:2429:VAL:HG11	1.88	0.56
1:A:2281:ARG:NH1	1:A:2290:ARG:HH21	2.04	0.56
1:B:1841:ALA:O	1:B:1842:GLN:CB	2.53	0.56
1:C:1599:GLN:HB3	1:C:1601:TYR:CD2	2.40	0.56
1:C:2429:VAL:O	1:C:2451:SER:HA	2.06	0.56
1:D:2281:ARG:NH1	1:D:2290:ARG:HH21	2.04	0.56
1:E:2124:LEU:O	1:E:2128:VAL:HG23	2.06	0.56
1:C:1736:ASN:HB3	1:C:1738:LYS:NZ	2.20	0.56
1:C:2172:MET:HE1	1:D:2121:ALA:CA	2.36	0.56
1:D:137:TYR:CE2	1:D:139:ASP:HB2	2.40	0.56
1:E:2281:ARG:NH1	1:E:2290:ARG:HH21	2.04	0.56
1:A:2429:VAL:O	1:A:2451:SER:HA	2.06	0.56
1:B:1760:PHE:HD2	1:B:1820:PRO:HG3	1.71	0.56
1:B:2173:ASN:CA	1:C:2117:LEU:HD21	2.34	0.56
1:C:141:ARG:HD3	1:C:970:TYR:O	2.06	0.56
1:C:1244:THR:CG2	1:D:1808:HIS:HA	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2194:ILE:CG2	1:D:2099:TYR:OH	2.48	0.56
1:D:1599:GLN:HB3	1:D:1601:TYR:CD2	2.40	0.56
1:D:1736:ASN:HB3	1:D:1738:LYS:NZ	2.20	0.56
1:E:1680:GLN:OE1	1:E:1680:GLN:N	2.39	0.56
1:A:2121:ALA:HA	1:E:2172:MET:HE1	1.88	0.56
1:A:2124:LEU:O	1:A:2128:VAL:HG23	2.06	0.56
1:B:1163:TYR:HB3	1:B:1168:TYR:CD1	2.41	0.56
1:C:1680:GLN:OE1	1:C:1680:GLN:N	2.39	0.56
1:C:1806:ILE:HG13	1:C:1809:GLY:O	2.06	0.56
1:D:1680:GLN:OE1	1:D:1680:GLN:N	2.39	0.56
1:A:1736:ASN:HB3	1:A:1738:LYS:NZ	2.20	0.55
1:A:1898:LEU:HD11	1:A:1952:ILE:HD12	1.88	0.55
1:A:2194:ILE:HG21	1:B:2099:TYR:CE1	2.41	0.55
1:B:1233:GLY:O	1:B:1249:PHE:HA	2.06	0.55
1:B:2124:LEU:O	1:B:2128:VAL:HG23	2.06	0.55
1:C:1739:SER:OG	1:C:1740:ILE:N	2.39	0.55
1:C:2173:ASN:CA	1:D:2117:LEU:HD21	2.34	0.55
1:E:1233:GLY:O	1:E:1249:PHE:HA	2.07	0.55
1:E:1760:PHE:HD2	1:E:1820:PRO:HG3	1.71	0.55
1:A:2301:TYR:CE2	1:E:2253:TRP:CD1	2.94	0.55
1:A:2327:ARG:HB2	1:E:2016:LEU:CD1	2.36	0.55
1:B:137:TYR:CE2	1:B:139:ASP:HB2	2.40	0.55
1:B:1680:GLN:OE1	1:B:1680:GLN:N	2.39	0.55
1:B:2430:GLN:HB2	1:B:2497:GLN:NE2	2.22	0.55
1:B:2468:LYS:HD3	1:C:2327:ARG:NH1	2.21	0.55
1:C:2281:ARG:NH1	1:C:2290:ARG:HH21	2.04	0.55
1:D:152:GLN:HE21	1:D:156:ASP:CG	2.10	0.55
1:D:2118:ARG:NH2	1:D:2177:ASP:OD2	2.39	0.55
1:D:2239:ALA:HB1	1:D:2243:ARG:NH1	2.20	0.55
1:D:2429:VAL:O	1:D:2451:SER:HA	2.06	0.55
1:E:152:GLN:HE21	1:E:156:ASP:CG	2.10	0.55
1:E:1093:VAL:HG21	1:E:1605:LEU:HD13	1.89	0.55
1:A:2077:GLU:OE1	1:E:2216:ARG:HA	2.06	0.55
1:A:2430:GLN:HB2	1:A:2497:GLN:NE2	2.22	0.55
1:B:1806:ILE:HG13	1:B:1809:GLY:O	2.06	0.55
1:B:2461:GLN:HE21	1:C:2465:ASN:ND2	2.03	0.55
1:C:1163:TYR:HB3	1:C:1168:TYR:CD1	2.41	0.55
1:D:1026:LYS:HZ3	1:E:1878:GLU:CD	2.09	0.55
1:D:1163:TYR:HB3	1:D:1168:TYR:CD1	2.41	0.55
1:D:1806:ILE:HG13	1:D:1809:GLY:O	2.06	0.55
1:D:2124:LEU:O	1:D:2128:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1163:TYR:HB3	1:E:1168:TYR:CD1	2.41	0.55
1:E:1676:ILE:HG13	1:E:1677:TYR:H	1.70	0.55
1:E:1760:PHE:CD2	1:E:1820:PRO:HG3	2.42	0.55
1:E:1806:ILE:HG13	1:E:1809:GLY:O	2.06	0.55
1:E:2430:GLN:HB2	1:E:2497:GLN:NE2	2.22	0.55
1:A:1163:TYR:HB3	1:A:1168:TYR:CD1	2.41	0.55
1:C:1233:GLY:O	1:C:1249:PHE:HA	2.07	0.55
1:C:1676:ILE:HG13	1:C:1677:TYR:H	1.70	0.55
1:C:1760:PHE:HD2	1:C:1820:PRO:CG	2.20	0.55
1:D:141:ARG:HD3	1:D:970:TYR:O	2.06	0.55
1:D:1112:GLY:N	1:D:1122:TYR:O	2.32	0.55
1:D:1233:GLY:O	1:D:1249:PHE:HA	2.07	0.55
1:D:1872:GLU:O	1:D:1875:THR:OG1	2.15	0.55
1:D:2374:ASN:N	1:D:2374:ASN:OD1	2.40	0.55
1:E:930:GLN:HA	1:E:933:THR:HG22	1.87	0.55
1:A:141:ARG:HD3	1:A:970:TYR:O	2.06	0.55
1:A:1739:SER:OG	1:A:1740:ILE:N	2.39	0.55
1:A:2114:ALA:HB2	1:E:2179:ILE:HB	1.87	0.55
1:A:2183:GLU:OE2	1:B:2111:GLU:CG	2.54	0.55
1:B:1898:LEU:HD11	1:B:1952:ILE:HD12	1.88	0.55
1:C:2124:LEU:O	1:C:2128:VAL:HG23	2.06	0.55
1:C:2382:ASP:O	1:C:2383:THR:OG1	2.18	0.55
1:D:1739:SER:OG	1:D:1740:ILE:N	2.39	0.55
1:A:930:GLN:HA	1:A:933:THR:HG22	1.87	0.55
1:A:1029:SER:HA	1:B:1989:PRO:HA	1.89	0.55
1:A:1233:GLY:O	1:A:1249:PHE:HA	2.07	0.55
1:A:1760:PHE:HD2	1:A:1820:PRO:HG3	1.71	0.55
1:A:2327:ARG:NH1	1:E:2468:LYS:HD3	2.20	0.55
1:B:1015:ARG:HA	1:B:1105:GLN:OE1	2.07	0.55
1:B:2216:ARG:HA	1:C:2077:GLU:OE1	2.05	0.55
1:B:2419:LEU:HD12	1:B:2429:VAL:HG11	1.88	0.55
1:C:1016:GLN:HE21	1:C:1129:SER:HB3	1.72	0.55
1:C:2245:PHE:HD2	1:D:2044:ILE:HG21	1.71	0.55
1:C:2430:GLN:HB2	1:C:2497:GLN:NE2	2.22	0.55
1:D:1093:VAL:HG21	1:D:1605:LEU:HD13	1.89	0.55
1:D:1760:PHE:HD2	1:D:1820:PRO:CG	2.20	0.55
1:D:1760:PHE:CD2	1:D:1820:PRO:HG3	2.42	0.55
1:D:2183:GLU:CD	1:E:2111:GLU:CG	2.75	0.55
1:E:2118:ARG:NH2	1:E:2177:ASP:OD2	2.39	0.55
1:A:1016:GLN:HE21	1:A:1129:SER:HB3	1.72	0.55
1:A:1078:PHE:CE1	1:A:1771:LEU:HG	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1584:LEU:HD13	1:A:1596:MET:HG3	1.89	0.55
1:A:2201:ALA:HB1	1:B:2091:GLY:CA	2.37	0.55
1:B:1760:PHE:HD2	1:B:1820:PRO:CG	2.20	0.55
1:B:2281:ARG:NH1	1:B:2290:ARG:HH21	2.04	0.55
1:C:152:GLN:HE21	1:C:156:ASP:CG	2.10	0.55
1:D:2430:GLN:HB2	1:D:2497:GLN:NE2	2.22	0.55
1:E:1132:ASN:HB3	1:E:1843:HIS:NE2	2.22	0.55
1:E:1760:PHE:HD2	1:E:1820:PRO:CG	2.19	0.55
1:A:1093:VAL:HG21	1:A:1605:LEU:HD13	1.89	0.55
1:A:2114:ALA:CB	1:E:2179:ILE:HG22	2.27	0.55
1:B:1760:PHE:CD2	1:B:1820:PRO:HG3	2.42	0.55
1:D:1760:PHE:HD2	1:D:1820:PRO:HG3	1.71	0.55
1:E:1841:ALA:O	1:E:1842:GLN:CB	2.53	0.55
1:A:1132:ASN:HB3	1:A:1843:HIS:NE2	2.22	0.55
1:A:1989:PRO:HA	1:E:1029:SER:HA	1.89	0.55
1:A:2194:ILE:HD11	1:B:2098:SER:HG	1.70	0.55
1:A:2205:GLN:N	1:B:2087:LYS:CG	2.70	0.55
1:B:1016:GLN:HE21	1:B:1129:SER:HB3	1.72	0.55
1:B:1286:TYR:O	1:B:1290:SER:OG	2.15	0.55
1:C:1015:ARG:HA	1:C:1105:GLN:OE1	2.07	0.55
1:C:1272:ASP:CG	1:D:1622:ASP:O	2.43	0.55
1:D:1204:ARG:HH21	1:D:1210:ASN:CG	2.10	0.55
1:D:2194:ILE:HD11	1:E:2098:SER:HG	1.71	0.55
1:E:141:ARG:HD3	1:E:970:TYR:O	2.06	0.55
1:E:1015:ARG:HA	1:E:1105:GLN:OE1	2.07	0.55
1:E:1078:PHE:CE1	1:E:1771:LEU:HG	2.42	0.55
1:E:2429:VAL:O	1:E:2451:SER:HA	2.06	0.55
1:A:1806:ILE:HG13	1:A:1809:GLY:O	2.06	0.55
1:A:2419:LEU:HD12	1:A:2429:VAL:HG11	1.88	0.55
1:B:124:ARG:NH1	1:B:1913:ILE:HA	2.22	0.55
1:B:152:GLN:HE21	1:B:156:ASP:CG	2.10	0.55
1:C:1272:ASP:CG	1:D:1623:THR:CA	2.43	0.55
1:C:1665:ILE:HG23	1:C:1674:HIS:HD2	1.72	0.55
1:C:2007:GLY:O	1:C:2009:LEU:HG	2.07	0.55
1:D:1244:THR:CG2	1:E:1808:HIS:HA	2.33	0.55
1:E:1665:ILE:HG23	1:E:1674:HIS:HD2	1.72	0.55
1:E:2348:ASN:HB3	1:E:2370:SER:HB2	1.89	0.55
1:B:994:GLN:O	1:B:998:ASN:ND2	2.37	0.54
1:C:1078:PHE:CE1	1:C:1771:LEU:HG	2.42	0.54
1:C:1841:ALA:O	1:C:1842:GLN:CB	2.53	0.54
1:C:2458:GLY:O	1:D:2330:GLU:OE1	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1016:GLN:HE21	1:D:1129:SER:HB3	1.72	0.54
1:D:1584:LEU:HD13	1:D:1596:MET:HG3	1.89	0.54
1:D:1665:ILE:HG23	1:D:1674:HIS:HD2	1.72	0.54
1:E:1584:LEU:HD13	1:E:1596:MET:HG3	1.89	0.54
1:A:152:GLN:HE21	1:A:156:ASP:CG	2.10	0.54
1:A:1760:PHE:CD2	1:A:1820:PRO:HG3	2.42	0.54
1:A:2330:GLU:CG	1:E:2460:PHE:CZ	2.90	0.54
1:C:1132:ASN:HB3	1:C:1843:HIS:NE2	2.22	0.54
1:C:2118:ARG:NH2	1:C:2177:ASP:OD2	2.39	0.54
1:D:1249:PHE:N	1:D:1265:GLN:O	2.29	0.54
1:D:1795:TRP:HA	1:D:1798:TYR:HD2	1.72	0.54
1:E:103:TYR:HD1	1:E:1950:PRO:HG2	1.73	0.54
1:E:1739:SER:OG	1:E:1740:ILE:N	2.39	0.54
1:A:124:ARG:NH1	1:A:1913:ILE:HA	2.22	0.54
1:A:994:GLN:O	1:A:998:ASN:ND2	2.37	0.54
1:A:1015:ARG:HA	1:A:1105:GLN:OE1	2.07	0.54
1:A:1097:TYR:CD1	1:A:1303:ASN:HB2	2.43	0.54
1:A:1680:GLN:OE1	1:A:1680:GLN:N	2.39	0.54
1:A:2172:MET:CE	1:B:2121:ALA:HB2	2.37	0.54
1:A:2460:PHE:CZ	1:B:2330:GLU:CG	2.89	0.54
1:B:1132:ASN:HB3	1:B:1843:HIS:NE2	2.22	0.54
1:B:2013:PHE:HZ	1:C:2323:LYS:CG	2.16	0.54
1:C:1795:TRP:HA	1:C:1798:TYR:HD2	1.72	0.54
1:C:2012:SER:OG	1:C:2443:ASN:OD1	2.15	0.54
1:E:2007:GLY:O	1:E:2009:LEU:HG	2.07	0.54
1:E:2019:PHE:CD1	1:E:2280:TYR:HB2	2.43	0.54
1:A:1057:MET:CE	1:A:1770:GLU:HB3	2.38	0.54
1:D:1015:ARG:HA	1:D:1105:GLN:OE1	2.07	0.54
1:D:2173:ASN:HA	1:E:2117:LEU:CD2	2.37	0.54
1:E:961:ILE:HG23	1:E:962:LYS:H	1.73	0.54
1:A:103:TYR:HD1	1:A:1950:PRO:HG2	1.72	0.54
1:B:1057:MET:CE	1:B:1770:GLU:HB3	2.38	0.54
1:B:1097:TYR:CD1	1:B:1303:ASN:HB2	2.43	0.54
1:B:1300:ARG:HD2	1:B:1586:LEU:HD22	1.89	0.54
1:B:1665:ILE:HG23	1:B:1674:HIS:HD2	1.72	0.54
1:B:2012:SER:OG	1:B:2443:ASN:OD1	2.15	0.54
1:C:2348:ASN:HB3	1:C:2370:SER:HB2	1.90	0.54
1:D:2348:ASN:HB3	1:D:2370:SER:HB2	1.89	0.54
1:E:1097:TYR:CD1	1:E:1303:ASN:HB2	2.43	0.54
1:A:1300:ARG:HD2	1:A:1586:LEU:HD22	1.89	0.54
1:A:2194:ILE:CG2	1:B:2099:TYR:OH	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1739:SER:OG	1:B:1740:ILE:N	2.39	0.54
1:C:964:ARG:O	1:C:967:LEU:HB3	2.08	0.54
1:C:1097:TYR:CD1	1:C:1303:ASN:HB2	2.43	0.54
1:C:1760:PHE:CD2	1:C:1820:PRO:HG3	2.42	0.54
1:D:124:ARG:NH1	1:D:1913:ILE:HA	2.22	0.54
1:E:964:ARG:O	1:E:967:LEU:HB3	2.08	0.54
1:E:1016:GLN:HE21	1:E:1129:SER:HB3	1.72	0.54
1:E:1057:MET:CE	1:E:1770:GLU:HB3	2.38	0.54
1:A:964:ARG:O	1:A:967:LEU:HB3	2.08	0.54
1:A:2348:ASN:HB3	1:A:2370:SER:HB2	1.89	0.54
1:B:1029:SER:HA	1:C:1989:PRO:HA	1.89	0.54
1:C:1041:PRO:O	1:C:1045:ILE:HG12	2.08	0.54
1:D:1078:PHE:CE1	1:D:1771:LEU:HG	2.42	0.54
1:D:2016:LEU:CD1	1:E:2327:ARG:HB2	2.38	0.54
1:A:95:GLN:O	1:A:96:PHE:C	2.46	0.54
1:A:1041:PRO:O	1:A:1045:ILE:HG12	2.08	0.54
1:A:2007:GLY:O	1:A:2009:LEU:HG	2.07	0.54
1:B:964:ARG:O	1:B:967:LEU:HB3	2.08	0.54
1:B:1584:LEU:HD13	1:B:1596:MET:HG3	1.89	0.54
1:B:2253:TRP:CD1	1:C:2301:TYR:CE2	2.95	0.54
1:C:1057:MET:CE	1:C:1770:GLU:HB3	2.38	0.54
1:C:2194:ILE:HD11	1:D:2098:SER:HG	1.71	0.54
1:D:1041:PRO:O	1:D:1045:ILE:HG12	2.08	0.54
1:D:1057:MET:CE	1:D:1770:GLU:HB3	2.38	0.54
1:D:2468:LYS:HD3	1:E:2327:ARG:NH1	2.23	0.54
1:E:1795:TRP:HA	1:E:1798:TYR:HD2	1.72	0.54
1:E:2382:ASP:O	1:E:2383:THR:OG1	2.18	0.54
1:A:1760:PHE:HD2	1:A:1820:PRO:CG	2.20	0.54
1:B:1041:PRO:O	1:B:1045:ILE:HG12	2.08	0.54
1:B:1675:ILE:H	1:B:1675:ILE:HD12	1.73	0.54
1:C:124:ARG:NH1	1:C:1913:ILE:HA	2.22	0.54
1:C:1093:VAL:HG21	1:C:1605:LEU:HD13	1.88	0.54
1:C:2016:LEU:CD1	1:D:2327:ARG:HB2	2.38	0.54
1:C:2019:PHE:CD1	1:C:2280:TYR:HB2	2.43	0.54
1:C:2019:PHE:CZ	1:C:2023:LEU:HD22	2.43	0.54
1:C:2183:GLU:CD	1:D:2111:GLU:CG	2.75	0.54
1:D:961:ILE:HG23	1:D:962:LYS:H	1.73	0.54
1:D:1097:TYR:CD1	1:D:1303:ASN:HB2	2.43	0.54
1:A:1665:ILE:HG23	1:A:1674:HIS:HD2	1.72	0.54
1:A:2019:PHE:CD1	1:A:2280:TYR:HB2	2.43	0.54
1:A:2117:LEU:HD13	1:E:2176:ALA:HB2	1.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1093:VAL:HG21	1:B:1605:LEU:HD13	1.89	0.54
1:B:1865:ASP:OD1	1:B:1883:TYR:OH	2.26	0.54
1:B:2172:MET:CE	1:C:2121:ALA:CB	2.86	0.54
1:C:103:TYR:HD1	1:C:1950:PRO:HG2	1.73	0.54
1:D:115:PRO:CG	1:E:1986:TYR:CD1	2.91	0.54
1:D:2194:ILE:HG21	1:E:2099:TYR:CE1	2.43	0.54
1:A:1795:TRP:HA	1:A:1798:TYR:HD2	1.72	0.53
1:A:2409:ILE:HG13	1:A:2516:LYS:HB2	1.91	0.53
1:B:1078:PHE:CE1	1:B:1771:LEU:HG	2.42	0.53
1:D:1675:ILE:H	1:D:1675:ILE:HD12	1.73	0.53
1:E:1041:PRO:O	1:E:1045:ILE:HG12	2.08	0.53
1:E:1204:ARG:HH21	1:E:1210:ASN:CG	2.10	0.53
1:A:961:ILE:HG23	1:A:962:LYS:H	1.73	0.53
1:A:2323:LYS:CG	1:E:2013:PHE:HZ	2.16	0.53
1:B:2449:ALA:HB2	1:C:2329:LEU:HD13	1.90	0.53
1:C:1204:ARG:HH21	1:C:1210:ASN:CG	2.10	0.53
1:C:1584:LEU:HD13	1:C:1596:MET:HG3	1.89	0.53
1:C:1760:PHE:HD2	1:C:1820:PRO:HG3	1.71	0.53
1:C:2423:LEU:HD22	1:C:2429:VAL:HG23	1.91	0.53
1:D:2423:LEU:HD22	1:D:2429:VAL:HG23	1.90	0.53
1:B:2007:GLY:O	1:B:2009:LEU:HG	2.07	0.53
1:B:2019:PHE:CZ	1:B:2023:LEU:HD22	2.43	0.53
1:C:1865:ASP:OD1	1:C:1883:TYR:OH	2.26	0.53
1:C:2176:ALA:HB2	1:D:2117:LEU:HD13	1.83	0.53
1:C:2183:GLU:OE2	1:D:2111:GLU:CG	2.57	0.53
1:C:2194:ILE:HG21	1:D:2099:TYR:CE1	2.44	0.53
1:C:2272:ARG:NH2	1:D:2318:GLU:CB	2.72	0.53
1:D:964:ARG:O	1:D:967:LEU:HB3	2.08	0.53
1:D:2204:LYS:C	1:E:2087:LYS:HG2	2.28	0.53
1:D:2409:ILE:HG13	1:D:2516:LYS:HB2	1.91	0.53
1:E:95:GLN:O	1:E:96:PHE:C	2.46	0.53
1:E:2019:PHE:CZ	1:E:2023:LEU:HD22	2.43	0.53
1:A:1675:ILE:H	1:A:1675:ILE:HD12	1.73	0.53
1:A:1808:HIS:HA	1:E:1244:THR:CG2	2.37	0.53
1:A:2423:LEU:HD22	1:A:2429:VAL:HG23	1.91	0.53
1:B:1204:ARG:HH21	1:B:1210:ASN:CG	2.10	0.53
1:B:2173:ASN:HA	1:C:2117:LEU:CD2	2.37	0.53
1:B:2430:GLN:H	1:B:2497:GLN:NE2	2.07	0.53
1:C:2239:ALA:HB1	1:C:2243:ARG:NH1	2.20	0.53
1:D:103:TYR:HD1	1:D:1950:PRO:HG2	1.73	0.53
1:D:1026:LYS:NZ	1:E:1878:GLU:CD	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1132:ASN:HB3	1:D:1843:HIS:NE2	2.22	0.53
1:D:2007:GLY:O	1:D:2009:LEU:HG	2.07	0.53
1:D:2019:PHE:CD1	1:D:2280:TYR:HB2	2.43	0.53
1:E:2409:ILE:HG13	1:E:2516:LYS:HB2	1.91	0.53
1:A:1204:ARG:HH21	1:A:1210:ASN:CG	2.10	0.53
1:A:2016:LEU:CD1	1:B:2327:ARG:HB2	2.39	0.53
1:B:95:GLN:O	1:B:96:PHE:C	2.46	0.53
1:B:1795:TRP:HA	1:B:1798:TYR:HD2	1.72	0.53
1:B:2245:PHE:HD2	1:C:2044:ILE:HG21	1.72	0.53
1:B:2423:LEU:HD22	1:B:2429:VAL:HG23	1.90	0.53
1:D:2183:GLU:OE2	1:E:2111:GLU:CG	2.57	0.53
1:E:1249:PHE:N	1:E:1265:GLN:O	2.29	0.53
1:E:1675:ILE:H	1:E:1675:ILE:HD12	1.73	0.53
1:A:1081:TYR:CD2	1:A:1771:LEU:HD12	2.44	0.53
1:A:2019:PHE:CZ	1:A:2023:LEU:HD22	2.43	0.53
1:A:2223:GLN:HA	1:B:2070:ILE:HD11	1.90	0.53
1:A:2430:GLN:H	1:A:2497:GLN:NE2	2.07	0.53
1:B:1641:PHE:CE2	1:B:1643:ALA:HB2	2.44	0.53
1:D:1081:TYR:CD2	1:D:1771:LEU:HD12	2.44	0.53
1:D:1091:LEU:HD21	1:D:1122:TYR:HD2	1.73	0.53
1:E:1091:LEU:HD21	1:E:1122:TYR:HD2	1.73	0.53
1:E:1865:ASP:OD1	1:E:1883:TYR:OH	2.26	0.53
1:A:1758:MET:HG3	1:A:1760:PHE:CE1	2.44	0.53
1:B:1660:TRP:CH2	1:B:1680:GLN:HB3	2.36	0.53
1:B:2172:MET:HE2	1:C:2121:ALA:CB	2.39	0.53
1:B:2374:ASN:N	1:B:2374:ASN:OD1	2.40	0.53
1:C:1081:TYR:CD2	1:C:1771:LEU:HD12	2.44	0.53
1:C:1202:HIS:CE1	1:C:1210:ASN:HD22	2.27	0.53
1:D:1202:HIS:CE1	1:D:1210:ASN:HD22	2.27	0.53
1:D:2187:ARG:CZ	1:E:2188:ARG:NH2	2.72	0.53
1:E:124:ARG:NH1	1:E:1913:ILE:HA	2.22	0.53
1:E:1300:ARG:HD2	1:E:1586:LEU:HD22	1.90	0.53
1:A:1641:PHE:CE2	1:A:1643:ALA:HB2	2.44	0.53
1:B:1202:HIS:CE1	1:B:1210:ASN:HD22	2.27	0.53
1:C:2409:ILE:HG13	1:C:2516:LYS:HB2	1.91	0.53
1:C:2430:GLN:H	1:C:2497:GLN:NE2	2.07	0.53
1:C:2449:ALA:HB2	1:D:2329:LEU:HD13	1.90	0.53
1:C:2472:PHE:O	1:C:2475:ILE:HG12	2.08	0.53
1:D:1300:ARG:HD2	1:D:1586:LEU:HD22	1.89	0.53
1:D:2222:LEU:HD12	1:E:2073:LYS:CD	2.29	0.53
1:E:2423:LEU:HD22	1:E:2429:VAL:HG23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2111:GLU:CG	1:E:2183:GLU:CD	2.78	0.53
1:A:2374:ASN:OD1	1:A:2374:ASN:N	2.40	0.53
1:B:1758:MET:HG3	1:B:1760:PHE:CE1	2.44	0.53
1:B:2187:ARG:CZ	1:C:2188:ARG:NH2	2.72	0.53
1:B:2409:ILE:HG13	1:B:2516:LYS:HB2	1.91	0.53
1:C:1091:LEU:HD21	1:C:1122:TYR:HD2	1.73	0.53
1:C:1300:ARG:HD2	1:C:1586:LEU:HD22	1.89	0.53
1:C:1675:ILE:HD12	1:C:1675:ILE:H	1.73	0.53
1:C:2106:ASN:C	1:C:2107:ILE:CG1	2.78	0.53
1:D:1758:MET:HG3	1:D:1760:PHE:CE1	2.44	0.53
1:D:1865:ASP:OD1	1:D:1883:TYR:OH	2.26	0.53
1:E:1758:MET:HG3	1:E:1760:PHE:CE1	2.44	0.53
1:E:2239:ALA:HB1	1:E:2243:ARG:NH1	2.20	0.53
1:C:2014:MET:HA	1:C:2278:GLN:HG3	1.91	0.53
1:D:95:GLN:O	1:D:96:PHE:C	2.46	0.53
1:D:2014:MET:HA	1:D:2278:GLN:HG3	1.90	0.53
1:E:2430:GLN:H	1:E:2497:GLN:NE2	2.07	0.53
1:A:1204:ARG:HH21	1:A:1210:ASN:ND2	2.08	0.52
1:A:1244:THR:CG2	1:B:1808:HIS:HA	2.34	0.52
1:A:2014:MET:HA	1:A:2278:GLN:HG3	1.91	0.52
1:A:2449:ALA:HB2	1:B:2329:LEU:HD13	1.91	0.52
1:B:1112:GLY:N	1:B:1122:TYR:O	2.32	0.52
1:B:2208:ALA:HB3	1:C:2084:VAL:HG22	1.90	0.52
1:B:2258:LEU:CB	1:C:2305:LEU:HD21	2.22	0.52
1:B:2382:ASP:O	1:B:2383:THR:OG1	2.18	0.52
1:C:95:GLN:O	1:C:96:PHE:C	2.46	0.52
1:C:1641:PHE:CE2	1:C:1643:ALA:HB2	2.44	0.52
1:D:1220:LYS:HE3	1:D:1267:LEU:HB3	1.91	0.52
1:D:2179:ILE:HG21	1:E:2114:ALA:H	1.74	0.52
1:E:1641:PHE:CE2	1:E:1643:ALA:HB2	2.44	0.52
1:A:1865:ASP:OD1	1:A:1883:TYR:OH	2.26	0.52
1:A:2117:LEU:CD2	1:E:2173:ASN:HA	2.37	0.52
1:A:2222:LEU:CD1	1:B:2073:LYS:CE	2.87	0.52
1:A:2472:PHE:O	1:A:2475:ILE:HG12	2.08	0.52
1:B:103:TYR:HD1	1:B:1950:PRO:HG2	1.72	0.52
1:B:1081:TYR:CD2	1:B:1771:LEU:HD12	2.44	0.52
1:B:2472:PHE:O	1:B:2475:ILE:HG12	2.08	0.52
1:C:1660:TRP:CH2	1:C:1680:GLN:HB3	2.36	0.52
1:D:1666:LYS:HD2	1:D:1708:TYR:HE1	1.74	0.52
1:D:2019:PHE:CZ	1:D:2023:LEU:HD22	2.43	0.52
1:D:2201:ALA:HB1	1:E:2091:GLY:CA	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2205:GLN:N	1:E:2087:LYS:CG	2.72	0.52
1:D:2222:LEU:HD11	1:E:2073:LYS:HE2	1.91	0.52
1:D:2272:ARG:NH2	1:E:2318:GLU:CB	2.73	0.52
1:B:961:ILE:HG23	1:B:962:LYS:H	1.73	0.52
1:B:2194:ILE:HD11	1:C:2098:SER:HG	1.72	0.52
1:C:148:MET:SD	1:C:986:ILE:HG22	2.50	0.52
1:C:961:ILE:HG23	1:C:962:LYS:H	1.73	0.52
1:C:1220:LYS:HE3	1:C:1267:LEU:HB3	1.91	0.52
1:C:2447:ALA:CB	1:D:2329:LEU:HD22	2.38	0.52
1:D:160:SER:CA	1:D:982:LYS:HD2	2.40	0.52
1:D:2172:MET:CE	1:E:2121:ALA:CB	2.87	0.52
1:E:1081:TYR:CD2	1:E:1771:LEU:HD12	2.44	0.52
1:E:1202:HIS:CE1	1:E:1210:ASN:HD22	2.27	0.52
1:E:1821:LEU:HD22	1:E:1849:LYS:HG3	1.91	0.52
1:A:2213:LEU:HD23	1:A:2216:ARG:HD2	1.92	0.52
1:A:2218:GLU:OE1	1:B:2073:LYS:HB3	2.10	0.52
1:B:2183:GLU:CD	1:C:2111:GLU:CG	2.77	0.52
1:C:1821:LEU:HD23	1:C:1845:PRO:HB2	1.91	0.52
1:C:2213:LEU:HD23	1:C:2216:ARG:HD2	1.92	0.52
1:C:2222:LEU:CD1	1:D:2073:LYS:CE	2.87	0.52
1:D:2472:PHE:O	1:D:2475:ILE:HG12	2.08	0.52
1:E:93:ASN:HD21	1:E:1894:PRO:CA	2.22	0.52
1:E:160:SER:CA	1:E:982:LYS:HD2	2.40	0.52
1:E:2472:PHE:O	1:E:2475:ILE:HG12	2.08	0.52
1:A:1091:LEU:HD21	1:A:1122:TYR:HD2	1.73	0.52
1:A:2084:VAL:HG22	1:E:2208:ALA:HB3	1.90	0.52
1:A:2187:ARG:CZ	1:B:2188:ARG:NH2	2.72	0.52
1:B:93:ASN:HD21	1:B:1894:PRO:CA	2.22	0.52
1:B:1091:LEU:HD21	1:B:1122:TYR:HD2	1.73	0.52
1:B:1604:ARG:NH1	1:B:1759:ASP:OD2	2.43	0.52
1:B:2348:ASN:HB3	1:B:2370:SER:HB2	1.89	0.52
1:C:2223:GLN:HA	1:D:2070:ILE:HD11	1.91	0.52
1:C:2460:PHE:CE1	1:D:2512:ARG:HB3	2.44	0.52
1:D:148:MET:SD	1:D:986:ILE:HG22	2.50	0.52
1:D:1821:LEU:HD23	1:D:1845:PRO:HB2	1.91	0.52
1:D:2223:GLN:HA	1:E:2070:ILE:HD11	1.90	0.52
1:E:148:MET:SD	1:E:986:ILE:HG22	2.49	0.52
1:E:2014:MET:HA	1:E:2278:GLN:HG3	1.91	0.52
1:E:2213:LEU:HD23	1:E:2216:ARG:HD2	1.92	0.52
1:A:125:GLU:HG3	1:A:1017:PHE:CD1	2.45	0.52
1:A:2222:LEU:HD11	1:B:2073:LYS:HE2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:160:SER:CA	1:B:982:LYS:HD2	2.40	0.52
1:B:1249:PHE:N	1:B:1265:GLN:O	2.29	0.52
1:B:1666:LYS:HD2	1:B:1708:TYR:HE1	1.74	0.52
1:B:2019:PHE:CD1	1:B:2280:TYR:HB2	2.43	0.52
1:C:160:SER:CA	1:C:982:LYS:HD2	2.40	0.52
1:C:1604:ARG:NH1	1:C:1759:ASP:OD2	2.43	0.52
1:C:1758:MET:HG3	1:C:1760:PHE:CE1	2.44	0.52
1:C:2222:LEU:HD11	1:D:2073:LYS:HE2	1.91	0.52
1:D:1641:PHE:CE2	1:D:1643:ALA:HB2	2.44	0.52
1:A:1666:LYS:HD2	1:A:1708:TYR:HE1	1.74	0.52
1:A:2204:LYS:C	1:B:2087:LYS:HG2	2.27	0.52
1:A:2239:ALA:HB1	1:A:2243:ARG:NH1	2.20	0.52
1:A:2310:LEU:O	1:A:2313:SER:N	2.43	0.52
1:B:125:GLU:HG3	1:B:1017:PHE:CD1	2.45	0.52
1:B:2310:LEU:O	1:B:2313:SER:N	2.43	0.52
1:C:1249:PHE:N	1:C:1265:GLN:O	2.29	0.52
1:D:2213:LEU:HD23	1:D:2216:ARG:HD2	1.92	0.52
1:D:2218:GLU:OE1	1:E:2073:LYS:HB3	2.10	0.52
1:D:2382:ASP:O	1:D:2383:THR:OG1	2.18	0.52
1:E:162:LEU:HD22	1:E:977:VAL:O	2.10	0.52
1:A:162:LEU:HD22	1:A:977:VAL:O	2.10	0.52
1:A:1042:GLU:OE2	1:A:1953:ASN:ND2	2.43	0.52
1:A:1068:GLN:NE2	1:E:1205:TYR:CD2	2.78	0.52
1:A:1821:LEU:HD23	1:A:1845:PRO:HB2	1.91	0.52
1:A:1878:GLU:CD	1:E:1026:LYS:NZ	2.63	0.52
1:A:1995:LEU:HD13	1:E:1034:VAL:HB	1.92	0.52
1:A:2382:ASP:O	1:A:2383:THR:OG1	2.18	0.52
1:C:2173:ASN:HA	1:D:2117:LEU:CD2	2.37	0.52
1:C:2201:ALA:HB1	1:D:2091:GLY:CA	2.39	0.52
1:C:2468:LYS:HD3	1:D:2327:ARG:NH1	2.24	0.52
1:D:162:LEU:HD22	1:D:977:VAL:O	2.10	0.52
1:E:1666:LYS:HD2	1:E:1708:TYR:HE1	1.74	0.52
1:E:2310:LEU:O	1:E:2313:SER:N	2.43	0.52
1:A:1821:LEU:HD22	1:A:1849:LYS:HG3	1.91	0.52
1:A:2013:PHE:HZ	1:B:2323:LYS:CG	2.17	0.52
1:B:148:MET:SD	1:B:986:ILE:HG22	2.49	0.52
1:B:1080:SER:HA	1:B:1083:THR:HG22	1.92	0.52
1:B:1821:LEU:HD22	1:B:1849:LYS:HG3	1.91	0.52
1:C:115:PRO:CG	1:D:1986:TYR:CD1	2.93	0.52
1:C:162:LEU:HD22	1:C:977:VAL:O	2.10	0.52
1:C:1666:LYS:HD2	1:C:1708:TYR:HE1	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1103:ASN:ND2	1:D:1598:TRP:CG	2.76	0.52
1:D:1244:THR:HG21	1:E:1809:GLY:N	2.25	0.52
1:D:2258:LEU:HD13	1:E:2308:GLU:OE1	2.10	0.52
1:E:1723:PRO:HD3	1:E:1744:PHE:HE2	1.75	0.52
1:A:1220:LYS:HE3	1:A:1267:LEU:HB3	1.91	0.52
1:A:2106:ASN:C	1:A:2107:ILE:CG1	2.78	0.52
1:B:162:LEU:HD22	1:B:977:VAL:O	2.10	0.52
1:B:1204:ARG:HH21	1:B:1210:ASN:ND2	2.08	0.52
1:B:1758:MET:O	1:B:1819:ARG:NH1	2.32	0.52
1:B:2014:MET:HA	1:B:2278:GLN:HG3	1.91	0.52
1:B:2204:LYS:C	1:C:2087:LYS:HG2	2.30	0.52
1:B:2239:ALA:HB1	1:B:2243:ARG:NH1	2.20	0.52
1:C:1723:PRO:HD3	1:C:1744:PHE:HE2	1.75	0.52
1:C:2094:SER:O	1:C:2098:SER:CB	2.58	0.52
1:C:2106:ASN:C	1:C:2107:ILE:HG12	2.31	0.52
1:C:2310:LEU:O	1:C:2313:SER:N	2.42	0.52
1:D:93:ASN:HD21	1:D:1894:PRO:CA	2.22	0.52
1:D:2089:LYS:HB2	1:D:2206:ILE:HG21	1.92	0.52
1:D:2106:ASN:C	1:D:2107:ILE:CG1	2.78	0.52
1:D:2106:ASN:C	1:D:2107:ILE:HG12	2.31	0.52
1:D:2460:PHE:CZ	1:E:2330:GLU:CG	2.92	0.52
1:E:1660:TRP:HD1	1:E:1661:PHE:C	2.13	0.52
1:A:160:SER:CA	1:A:982:LYS:HD2	2.40	0.51
1:A:1112:GLY:N	1:A:1122:TYR:O	2.32	0.51
1:A:1202:HIS:CE1	1:A:1210:ASN:HD22	2.27	0.51
1:A:1660:TRP:HD1	1:A:1661:PHE:C	2.13	0.51
1:A:1986:TYR:CD1	1:E:115:PRO:CG	2.93	0.51
1:A:2087:LYS:CG	1:E:2205:GLN:N	2.73	0.51
1:B:193:ARG:NH2	1:B:194:PRO:O	2.44	0.51
1:B:2106:ASN:C	1:B:2107:ILE:CG1	2.78	0.51
1:B:2213:LEU:HD23	1:B:2216:ARG:HD2	1.92	0.51
1:C:125:GLU:HG3	1:C:1017:PHE:CD1	2.45	0.51
1:C:2374:ASN:OD1	1:C:2374:ASN:N	2.40	0.51
1:D:1016:GLN:H	1:D:1105:GLN:NE2	2.08	0.51
1:D:1723:PRO:HD3	1:D:1744:PHE:HE2	1.75	0.51
1:E:105:ALA:HB2	1:E:1898:LEU:HD23	1.92	0.51
1:E:1758:MET:O	1:E:1819:ARG:NH1	2.32	0.51
1:E:2054:ALA:O	1:E:2058:ASN:ND2	2.43	0.51
1:E:2094:SER:O	1:E:2098:SER:CB	2.58	0.51
1:B:1220:LYS:HE3	1:B:1267:LEU:HB3	1.91	0.51
1:B:1821:LEU:HD23	1:B:1845:PRO:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2094:SER:O	1:B:2098:SER:CB	2.58	0.51
1:B:2460:PHE:CZ	1:C:2330:GLU:CG	2.90	0.51
1:C:193:ARG:NH2	1:C:194:PRO:O	2.44	0.51
1:D:119:LEU:HD22	1:D:986:ILE:HB	1.92	0.51
1:E:125:GLU:HG3	1:E:1017:PHE:CD1	2.45	0.51
1:E:1042:GLU:OE2	1:E:1953:ASN:ND2	2.43	0.51
1:E:2089:LYS:HB2	1:E:2206:ILE:HG21	1.92	0.51
1:A:141:ARG:HH22	1:A:1005:GLU:CD	2.14	0.51
1:A:148:MET:SD	1:A:986:ILE:HG22	2.50	0.51
1:B:1272:ASP:CG	1:C:1623:THR:CA	2.43	0.51
1:B:2194:ILE:HG21	1:C:2099:TYR:CE1	2.45	0.51
1:C:2187:ARG:CZ	1:D:2188:ARG:NH2	2.73	0.51
1:C:2208:ALA:HB3	1:D:2084:VAL:HG22	1.92	0.51
1:D:1660:TRP:HD1	1:D:1661:PHE:C	2.13	0.51
1:D:2094:SER:O	1:D:2098:SER:CB	2.58	0.51
1:D:2222:LEU:CD1	1:E:2073:LYS:CE	2.88	0.51
1:D:2458:GLY:O	1:E:2330:GLU:OE1	2.27	0.51
1:E:141:ARG:HH22	1:E:1005:GLU:CD	2.14	0.51
1:E:1220:LYS:HE3	1:E:1267:LEU:HB3	1.91	0.51
1:E:1821:LEU:HD23	1:E:1845:PRO:HB2	1.91	0.51
1:A:105:ALA:HB2	1:A:1898:LEU:HD23	1.92	0.51
1:A:193:ARG:NH2	1:A:194:PRO:O	2.44	0.51
1:A:1604:ARG:NH1	1:A:1759:ASP:OD2	2.43	0.51
1:A:1800:TRP:CD1	1:A:1816:TRP:CE2	2.99	0.51
1:A:2089:LYS:HB2	1:A:2206:ILE:HG21	1.92	0.51
1:A:2327:ARG:HH11	1:E:2468:LYS:HD3	1.76	0.51
1:B:141:ARG:HH22	1:B:1005:GLU:CD	2.14	0.51
1:C:1244:THR:HG21	1:D:1809:GLY:N	2.25	0.51
1:C:1644:THR:HA	1:C:1689:THR:HA	1.93	0.51
1:C:2089:LYS:HB2	1:C:2206:ILE:HG21	1.93	0.51
1:C:2460:PHE:HB3	1:D:2464:PHE:CE2	2.44	0.51
1:D:125:GLU:HG3	1:D:1017:PHE:CD1	2.45	0.51
1:D:193:ARG:NH2	1:D:194:PRO:O	2.44	0.51
1:D:1034:VAL:HB	1:E:1995:LEU:HD13	1.93	0.51
1:D:1100:ASN:HB2	1:D:1106:GLY:HA3	1.93	0.51
1:D:1604:ARG:NH1	1:D:1759:ASP:OD2	2.43	0.51
1:D:1821:LEU:HD22	1:D:1849:LYS:HG3	1.91	0.51
1:D:2430:GLN:H	1:D:2497:GLN:NE2	2.07	0.51
1:E:193:ARG:NH2	1:E:194:PRO:O	2.44	0.51
1:A:1016:GLN:H	1:A:1105:GLN:NE2	2.08	0.51
1:A:1080:SER:HA	1:A:1083:THR:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1097:TYR:CD2	1:A:1162:ILE:HD12	2.46	0.51
1:A:1644:THR:HA	1:A:1689:THR:HA	1.93	0.51
1:A:2094:SER:O	1:A:2098:SER:CB	2.58	0.51
1:A:2121:ALA:CB	1:E:2172:MET:CE	2.88	0.51
1:A:2458:GLY:O	1:B:2330:GLU:OE1	2.27	0.51
1:B:1244:THR:CG2	1:C:1808:HIS:HA	2.38	0.51
1:B:1660:TRP:HD1	1:B:1661:PHE:C	2.13	0.51
1:B:1723:PRO:HD3	1:B:1744:PHE:HE2	1.75	0.51
1:C:141:ARG:HH22	1:C:1005:GLU:CD	2.14	0.51
1:C:1026:LYS:NZ	1:D:1878:GLU:CD	2.63	0.51
1:C:1122:TYR:HE1	1:C:1146:LYS:HG3	1.76	0.51
1:C:2172:MET:CE	1:D:2121:ALA:CB	2.88	0.51
1:C:2258:LEU:HD13	1:D:2308:GLU:OE1	2.11	0.51
1:D:1029:SER:HA	1:E:1989:PRO:HA	1.91	0.51
1:D:2310:LEU:O	1:D:2313:SER:N	2.43	0.51
1:E:1016:GLN:H	1:E:1105:GLN:NE2	2.08	0.51
1:A:1723:PRO:HD3	1:A:1744:PHE:HE2	1.75	0.51
1:A:2054:ALA:O	1:A:2058:ASN:ND2	2.43	0.51
1:A:2087:LYS:HG2	1:E:2204:LYS:C	2.30	0.51
1:B:2089:LYS:HB2	1:B:2206:ILE:HG21	1.92	0.51
1:B:2331:VAL:HG11	1:B:2402:TYR:HE2	1.76	0.51
1:B:2458:GLY:O	1:C:2330:GLU:OE1	2.27	0.51
1:C:1016:GLN:H	1:C:1105:GLN:NE2	2.08	0.51
1:D:2176:ALA:HB2	1:E:2117:LEU:HD13	1.85	0.51
1:E:1204:ARG:HH21	1:E:1210:ASN:ND2	2.08	0.51
1:E:2106:ASN:C	1:E:2107:ILE:CG1	2.78	0.51
1:A:1864:GLY:O	1:A:1868:TYR:HB2	2.11	0.51
1:A:2331:VAL:HG11	1:A:2402:TYR:HE2	1.76	0.51
1:B:1245:LEU:HB3	1:B:1269:ILE:HB	1.92	0.51
1:B:1644:THR:HA	1:B:1689:THR:HA	1.93	0.51
1:B:2054:ALA:O	1:B:2058:ASN:ND2	2.43	0.51
1:B:2468:LYS:HD3	1:C:2327:ARG:HH11	1.75	0.51
1:C:1042:GLU:OE2	1:C:1953:ASN:ND2	2.43	0.51
1:C:1097:TYR:CD2	1:C:1162:ILE:HD12	2.46	0.51
1:C:1204:ARG:HH21	1:C:1210:ASN:ND2	2.08	0.51
1:C:1245:LEU:HB3	1:C:1269:ILE:HB	1.93	0.51
1:C:1821:LEU:HD22	1:C:1849:LYS:HG3	1.91	0.51
1:D:1042:GLU:OE2	1:D:1953:ASN:ND2	2.43	0.51
1:D:1097:TYR:CD2	1:D:1162:ILE:HD12	2.46	0.51
1:D:2168:SER:O	1:D:2171:VAL:HG12	2.11	0.51
1:E:1122:TYR:HE1	1:E:1146:LYS:HG3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1644:THR:HA	1:E:1689:THR:HA	1.93	0.51
1:B:1100:ASN:HB2	1:B:1106:GLY:HA3	1.93	0.51
1:B:2399:ARG:HE	1:B:2410:ARG:HH11	1.58	0.51
1:C:93:ASN:HD21	1:C:1894:PRO:CA	2.22	0.51
1:C:1660:TRP:HD1	1:C:1661:PHE:C	2.13	0.51
1:C:2185:TYR:HD1	1:C:2188:ARG:HD3	1.76	0.51
1:D:1226:LEU:HD12	1:D:1227:GLU:N	2.26	0.51
1:D:2460:PHE:HB3	1:E:2464:PHE:CE2	2.46	0.51
1:E:119:LEU:HD22	1:E:986:ILE:HB	1.93	0.51
1:E:2168:SER:O	1:E:2171:VAL:HG12	2.11	0.51
1:A:93:ASN:HD21	1:A:1894:PRO:CA	2.22	0.51
1:A:1249:PHE:N	1:A:1265:GLN:O	2.29	0.51
1:A:1777:MET:HE1	1:A:1852:THR:HG23	1.93	0.51
1:B:1800:TRP:CD1	1:B:1816:TRP:CE2	2.99	0.51
1:C:105:ALA:HB2	1:C:1898:LEU:HD23	1.92	0.51
1:C:1226:LEU:HD12	1:C:1227:GLU:N	2.26	0.51
1:C:2018:ARG:HG2	1:C:2467:GLY:O	2.11	0.51
1:C:2169:ALA:CB	1:D:2124:LEU:HD11	2.25	0.51
1:C:2471:PRO:HG3	1:D:2327:ARG:NE	2.26	0.51
1:D:2018:ARG:HG2	1:D:2467:GLY:O	2.11	0.51
1:A:115:PRO:CG	1:B:1986:TYR:CD1	2.94	0.51
1:A:1660:TRP:CH2	1:A:1680:GLN:HB3	2.36	0.51
1:A:2070:ILE:HD11	1:E:2223:GLN:HA	1.92	0.51
1:A:2330:GLU:OE1	1:E:2458:GLY:O	2.29	0.51
1:B:1864:GLY:O	1:B:1868:TYR:HB2	2.11	0.51
1:B:2460:PHE:CE1	1:C:2512:ARG:HB3	2.46	0.51
1:D:1080:SER:HA	1:D:1083:THR:HG22	1.92	0.51
1:D:1204:ARG:HH21	1:D:1210:ASN:ND2	2.08	0.51
1:D:1864:GLY:O	1:D:1868:TYR:HB2	2.11	0.51
1:E:1080:SER:HA	1:E:1083:THR:HG22	1.92	0.51
1:E:1226:LEU:HD12	1:E:1227:GLU:N	2.26	0.51
1:E:1245:LEU:HB3	1:E:1269:ILE:HB	1.93	0.51
1:E:1604:ARG:NH1	1:E:1759:ASP:OD2	2.43	0.51
1:A:160:SER:HA	1:A:982:LYS:CD	2.41	0.50
1:B:2018:ARG:HG2	1:B:2467:GLY:O	2.11	0.50
1:C:119:LEU:HD22	1:C:986:ILE:HB	1.92	0.50
1:C:2168:SER:O	1:C:2171:VAL:HG12	2.11	0.50
1:D:1644:THR:HA	1:D:1689:THR:HA	1.93	0.50
1:D:2460:PHE:CE1	1:E:2512:ARG:HB3	2.46	0.50
1:E:1097:TYR:CD2	1:E:1162:ILE:HD12	2.46	0.50
1:A:1226:LEU:HD12	1:A:1227:GLU:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2099:TYR:CE1	1:E:2194:ILE:HG21	2.46	0.50
1:A:2245:PHE:CD2	1:B:2044:ILE:HG21	2.47	0.50
1:B:160:SER:HA	1:B:982:LYS:CD	2.41	0.50
1:B:1016:GLN:H	1:B:1105:GLN:NE2	2.08	0.50
1:B:1103:ASN:ND2	1:B:1598:TRP:CG	2.76	0.50
1:B:2106:ASN:C	1:B:2107:ILE:HG12	2.31	0.50
1:B:2183:GLU:OE2	1:C:2111:GLU:CG	2.59	0.50
1:C:1660:TRP:HD1	1:C:1661:PHE:CA	2.24	0.50
1:C:2205:GLN:N	1:D:2087:LYS:CG	2.72	0.50
1:C:2272:ARG:NH2	1:D:2318:GLU:HB3	2.26	0.50
1:D:160:SER:HA	1:D:982:LYS:CD	2.41	0.50
1:D:2449:ALA:HB2	1:E:2329:LEU:HD13	1.92	0.50
1:E:1800:TRP:CD1	1:E:1816:TRP:CE2	2.99	0.50
1:E:2018:ARG:HG2	1:E:2467:GLY:O	2.11	0.50
1:E:2185:TYR:HD1	1:E:2188:ARG:HD3	1.76	0.50
1:A:2073:LYS:CE	1:E:2222:LEU:CD1	2.90	0.50
1:A:2183:GLU:CG	1:B:2111:GLU:HG2	2.38	0.50
1:A:2187:ARG:NH1	1:B:2108:ASN:CG	2.64	0.50
1:B:1097:TYR:CD2	1:B:1162:ILE:HD12	2.46	0.50
1:B:2404:ALA:C	1:B:2406:LEU:H	2.14	0.50
1:C:1800:TRP:CD1	1:C:1816:TRP:CE2	2.99	0.50
1:C:2404:ALA:C	1:C:2406:LEU:H	2.15	0.50
1:D:1122:TYR:HE1	1:D:1146:LYS:HG3	1.76	0.50
1:D:1204:ARG:NH2	1:D:1210:ASN:OD1	2.42	0.50
1:E:1975:SER:HB3	1:E:1981:LEU:HD23	1.94	0.50
1:E:2331:VAL:HG11	1:E:2402:TYR:HE2	1.76	0.50
1:A:1034:VAL:HB	1:B:1995:LEU:HD13	1.93	0.50
1:A:2106:ASN:C	1:A:2107:ILE:HG12	2.31	0.50
1:A:2154:TRP:O	1:A:2158:ALA:HB2	2.12	0.50
1:A:2188:ARG:NH2	1:E:2187:ARG:CZ	2.75	0.50
1:A:2258:LEU:HD13	1:B:2308:GLU:OE1	2.11	0.50
1:A:2308:GLU:OE1	1:E:2258:LEU:HD13	2.10	0.50
1:C:1029:SER:HA	1:D:1989:PRO:HA	1.92	0.50
1:C:2399:ARG:HE	1:C:2410:ARG:HH11	1.58	0.50
1:D:105:ALA:HB2	1:D:1898:LEU:HD23	1.92	0.50
1:D:141:ARG:HH22	1:D:1005:GLU:CD	2.14	0.50
1:D:1800:TRP:CD1	1:D:1816:TRP:CE2	2.99	0.50
1:A:1660:TRP:HD1	1:A:1661:PHE:CA	2.25	0.50
1:A:1975:SER:HB3	1:A:1981:LEU:HD23	1.94	0.50
1:A:2172:MET:CE	1:B:2121:ALA:CB	2.90	0.50
1:A:2208:ALA:HB3	1:B:2084:VAL:HG22	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2399:ARG:HE	1:A:2410:ARG:HH11	1.58	0.50
1:B:1026:LYS:NZ	1:C:1878:GLU:CD	2.65	0.50
1:B:1042:GLU:OE2	1:B:1953:ASN:ND2	2.43	0.50
1:B:1660:TRP:HD1	1:B:1661:PHE:CA	2.24	0.50
1:C:1080:SER:HA	1:C:1083:THR:HG22	1.92	0.50
1:D:1137:ALA:C	1:D:1139:ASN:H	2.15	0.50
1:D:2447:ALA:CB	1:E:2329:LEU:HD22	2.39	0.50
1:E:160:SER:HA	1:E:982:LYS:CD	2.41	0.50
1:E:2106:ASN:C	1:E:2107:ILE:HG12	2.31	0.50
1:E:2399:ARG:HE	1:E:2410:ARG:HH11	1.58	0.50
1:A:1122:TYR:HE1	1:A:1146:LYS:HG3	1.76	0.50
1:A:2091:GLY:CA	1:E:2201:ALA:HB1	2.41	0.50
1:A:2108:ASN:CG	1:E:2187:ARG:NH1	2.65	0.50
1:A:2111:GLU:CG	1:E:2183:GLU:OE2	2.59	0.50
1:A:2183:GLU:CD	1:B:2111:GLU:HG2	2.32	0.50
1:B:1226:LEU:HD12	1:B:1227:GLU:N	2.26	0.50
1:B:2201:ALA:HB1	1:C:2091:GLY:CA	2.40	0.50
1:B:2272:ARG:NH2	1:C:2318:GLU:CB	2.75	0.50
1:B:2273:CYS:SG	1:B:2314:LEU:HD11	2.52	0.50
1:C:160:SER:HA	1:C:982:LYS:CD	2.41	0.50
1:C:1100:ASN:HB2	1:C:1106:GLY:HA3	1.93	0.50
1:C:2218:GLU:OE1	1:D:2073:LYS:HB3	2.12	0.50
1:C:2460:PHE:CZ	1:D:2330:GLU:CG	2.92	0.50
1:D:2430:GLN:HB2	1:D:2497:GLN:HE22	1.77	0.50
1:E:1100:ASN:HB2	1:E:1106:GLY:HA3	1.93	0.50
1:E:2273:CYS:SG	1:E:2314:LEU:HD11	2.52	0.50
1:A:119:LEU:HD22	1:A:986:ILE:HB	1.92	0.50
1:A:1245:LEU:HB3	1:A:1269:ILE:HB	1.93	0.50
1:A:2512:ARG:HB3	1:E:2460:PHE:CE1	2.47	0.50
1:B:105:ALA:HB2	1:B:1898:LEU:HD23	1.92	0.50
1:B:2168:SER:O	1:B:2171:VAL:HG12	2.11	0.50
1:B:2280:TYR:CE1	1:B:2284:LEU:HD22	2.47	0.50
1:C:1975:SER:HB3	1:C:1981:LEU:HD23	1.94	0.50
1:D:1245:LEU:HB3	1:D:1269:ILE:HB	1.92	0.50
1:E:1137:ALA:C	1:E:1139:ASN:H	2.15	0.50
1:E:1204:ARG:NH2	1:E:1210:ASN:OD1	2.42	0.50
1:E:2154:TRP:O	1:E:2158:ALA:HB2	2.12	0.50
1:A:2018:ARG:HG2	1:A:2467:GLY:O	2.11	0.50
1:A:2185:TYR:HD1	1:A:2188:ARG:HD3	1.76	0.50
1:B:1122:TYR:HE1	1:B:1146:LYS:HG3	1.76	0.50
1:C:2253:TRP:CE2	1:D:2301:TYR:CE2	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2273:CYS:SG	1:C:2314:LEU:HD11	2.52	0.50
1:D:1174:GLN:NE2	1:D:1196:TYR:HA	2.27	0.50
1:A:1026:LYS:NZ	1:B:1878:GLU:CD	2.65	0.50
1:A:2099:TYR:OH	1:E:2194:ILE:CG2	2.49	0.50
1:A:2318:GLU:CB	1:E:2272:ARG:NH2	2.74	0.50
1:A:2468:LYS:HD3	1:B:2327:ARG:NH1	2.23	0.50
1:B:119:LEU:HD22	1:B:986:ILE:HB	1.92	0.50
1:B:2154:TRP:O	1:B:2158:ALA:HB2	2.12	0.50
1:B:2183:GLU:CG	1:C:2111:GLU:HG2	2.40	0.50
1:B:2222:LEU:HD12	1:C:2073:LYS:CD	2.32	0.50
1:B:2222:LEU:CD1	1:C:2073:LYS:CE	2.90	0.50
1:B:2258:LEU:HD13	1:C:2308:GLU:OE1	2.12	0.50
1:C:2280:TYR:CE1	1:C:2284:LEU:HD22	2.47	0.50
1:D:981:ILE:HD12	1:E:1973:ASN:HB2	1.94	0.50
1:D:1897:PRO:O	1:D:1899:SER:OG	2.26	0.50
1:E:121:GLU:HA	1:E:124:ARG:HG2	1.94	0.50
1:E:1174:GLN:NE2	1:E:1196:TYR:HA	2.27	0.50
1:E:1864:GLY:O	1:E:1868:TYR:HB2	2.11	0.50
1:E:2374:ASN:N	1:E:2374:ASN:OD1	2.40	0.50
1:A:121:GLU:HA	1:A:124:ARG:HG2	1.94	0.49
1:A:2073:LYS:HB3	1:E:2218:GLU:OE1	2.12	0.49
1:A:2073:LYS:HE2	1:E:2222:LEU:HD11	1.94	0.49
1:B:2218:GLU:OE1	1:C:2073:LYS:HB3	2.12	0.49
1:B:2223:GLN:HA	1:C:2070:ILE:HD11	1.93	0.49
1:D:118:TYR:OH	1:D:1025:ASN:O	2.27	0.49
1:D:2185:TYR:HD1	1:D:2188:ARG:HD3	1.76	0.49
1:D:2404:ALA:C	1:D:2406:LEU:H	2.15	0.49
1:A:124:ARG:HH12	1:A:1913:ILE:HA	1.77	0.49
1:A:1204:ARG:NH2	1:A:1210:ASN:OD1	2.42	0.49
1:B:2430:GLN:HB2	1:B:2497:GLN:HE22	1.77	0.49
1:C:1098:HIS:HE1	1:C:1128:HIS:CD2	2.30	0.49
1:C:1174:GLN:NE2	1:C:1196:TYR:HA	2.27	0.49
1:C:1864:GLY:O	1:C:1868:TYR:HB2	2.11	0.49
1:D:92:TYR:C	1:D:92:TYR:CD2	2.86	0.49
1:D:1098:HIS:HE1	1:D:1128:HIS:CD2	2.30	0.49
1:D:2154:TRP:O	1:D:2158:ALA:HB2	2.12	0.49
1:D:2216:ARG:CA	1:E:2077:GLU:OE1	2.60	0.49
1:E:1133:ASP:O	1:E:1135:LYS:N	2.46	0.49
1:E:2404:ALA:C	1:E:2406:LEU:H	2.15	0.49
1:A:2272:ARG:NH2	1:B:2318:GLU:CB	2.75	0.49
1:C:2054:ALA:O	1:C:2058:ASN:ND2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2187:ARG:NH1	1:D:2108:ASN:CG	2.65	0.49
1:D:2280:TYR:CE1	1:D:2284:LEU:HD22	2.47	0.49
1:A:1100:ASN:HB2	1:A:1106:GLY:HA3	1.93	0.49
1:A:2168:SER:O	1:A:2171:VAL:HG12	2.11	0.49
1:A:2273:CYS:SG	1:A:2314:LEU:HD11	2.52	0.49
1:C:1132:ASN:HD21	1:C:1830:ASP:CG	2.16	0.49
1:C:1133:ASP:O	1:C:1135:LYS:N	2.46	0.49
1:C:2154:TRP:O	1:C:2158:ALA:HB2	2.12	0.49
1:C:2204:LYS:C	1:D:2087:LYS:HG2	2.30	0.49
1:C:2331:VAL:HG11	1:C:2402:TYR:HE2	1.76	0.49
1:E:1122:TYR:HB3	1:E:1144:TRP:HB3	1.95	0.49
1:E:2280:TYR:CE1	1:E:2284:LEU:HD22	2.47	0.49
1:A:1132:ASN:HD21	1:A:1830:ASP:CG	2.16	0.49
1:A:2404:ALA:C	1:A:2406:LEU:H	2.15	0.49
1:A:2430:GLN:HB2	1:A:2497:GLN:HE22	1.77	0.49
1:A:2460:PHE:HB3	1:B:2464:PHE:CE2	2.47	0.49
1:B:1133:ASP:O	1:B:1135:LYS:N	2.45	0.49
1:B:1137:ALA:C	1:B:1139:ASN:H	2.15	0.49
1:B:2205:GLN:N	1:C:2087:LYS:CG	2.74	0.49
1:C:92:TYR:C	1:C:92:TYR:CD2	2.86	0.49
1:C:2215:VAL:O	1:C:2218:GLU:HB3	2.13	0.49
1:D:1642:TYR:HH	1:D:1689:THR:HG1	1.61	0.49
1:D:2245:PHE:CD2	1:E:2044:ILE:HG21	2.47	0.49
1:E:1646:VAL:HG22	1:E:1687:ASN:HA	1.95	0.49
1:A:1137:ALA:C	1:A:1139:ASN:H	2.15	0.49
1:A:1809:GLY:N	1:E:1244:THR:HG21	2.28	0.49
1:A:2327:ARG:HH11	1:E:2468:LYS:CD	2.26	0.49
1:B:1160:PRO:HA	1:B:1169:LEU:HA	1.95	0.49
1:C:1137:ALA:C	1:C:1139:ASN:H	2.15	0.49
1:A:92:TYR:C	1:A:92:TYR:CD2	2.85	0.49
1:A:1122:TYR:HB3	1:A:1144:TRP:HB3	1.95	0.49
1:A:1244:THR:HG21	1:B:1809:GLY:N	2.27	0.49
1:A:1646:VAL:HG22	1:A:1687:ASN:HA	1.95	0.49
1:A:1996:LEU:CD1	1:E:1837:PRO:HG3	2.42	0.49
1:A:2183:GLU:OE2	1:B:2111:GLU:CD	2.50	0.49
1:A:2365:SER:HA	1:A:2377:PHE:CD2	2.48	0.49
1:B:92:TYR:C	1:B:92:TYR:CD2	2.86	0.49
1:B:1098:HIS:HE1	1:B:1128:HIS:CD2	2.30	0.49
1:B:1174:GLN:NE2	1:B:1196:TYR:HA	2.27	0.49
1:B:1975:SER:HB3	1:B:1981:LEU:HD23	1.94	0.49
1:B:2185:TYR:HD1	1:B:2188:ARG:HD3	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1160:PRO:HA	1:C:1169:LEU:HA	1.95	0.49
1:D:1100:ASN:OD1	1:D:1101:ILE:N	2.46	0.49
1:D:2187:ARG:NH1	1:E:2108:ASN:CG	2.66	0.49
1:D:2273:CYS:SG	1:D:2314:LEU:HD11	2.52	0.49
1:D:2331:VAL:HG11	1:D:2402:TYR:HE2	1.76	0.49
1:E:1112:GLY:N	1:E:1122:TYR:O	2.31	0.49
1:A:1072:ASP:HB2	1:E:1204:ARG:CZ	2.42	0.49
1:A:1098:HIS:HE1	1:A:1128:HIS:CD2	2.30	0.49
1:A:1133:ASP:O	1:A:1135:LYS:N	2.46	0.49
1:A:1174:GLN:NE2	1:A:1196:TYR:HA	2.27	0.49
1:A:2215:VAL:O	1:A:2218:GLU:HB3	2.13	0.49
1:A:2280:TYR:CE1	1:A:2284:LEU:HD22	2.47	0.49
1:A:2329:LEU:HD13	1:E:2449:ALA:HB2	1.93	0.49
1:B:115:PRO:CG	1:C:1986:TYR:CD1	2.96	0.49
1:B:1676:ILE:HG13	1:B:1677:TYR:N	2.28	0.49
1:B:2365:SER:HA	1:B:2377:PHE:CD2	2.48	0.49
1:C:1676:ILE:HG13	1:C:1677:TYR:N	2.28	0.49
1:C:2272:ARG:HH22	1:D:2318:GLU:HB3	1.77	0.49
1:D:1640:GLY:HA3	1:D:1691:PHE:CZ	2.48	0.49
1:D:1660:TRP:CH2	1:D:1680:GLN:HB3	2.36	0.49
1:A:1160:PRO:HA	1:A:1169:LEU:HA	1.95	0.49
1:A:2179:ILE:HG21	1:B:2114:ALA:H	1.73	0.49
1:A:2266:TYR:CZ	1:A:2297:TRP:HB2	2.48	0.49
1:A:2468:LYS:HD3	1:B:2327:ARG:HH11	1.78	0.49
1:B:1640:GLY:HA3	1:B:1691:PHE:CZ	2.48	0.49
1:B:1711:PHE:H	1:B:1715:PRO:HG3	1.78	0.49
1:C:1640:GLY:HA3	1:C:1691:PHE:CZ	2.48	0.49
1:C:2464:PHE:HZ	1:C:2512:ARG:HH11	1.61	0.49
1:D:1133:ASP:O	1:D:1135:LYS:N	2.46	0.49
1:D:1646:VAL:HG22	1:D:1687:ASN:HA	1.95	0.49
1:D:2266:TYR:CZ	1:D:2297:TRP:HB2	2.48	0.49
1:B:1204:ARG:HD2	1:B:1210:ASN:OD1	2.13	0.49
1:B:2222:LEU:CD1	1:C:2073:LYS:HD2	2.32	0.49
1:B:2447:ALA:CB	1:C:2329:LEU:HD22	2.41	0.49
1:C:899:GLY:O	1:C:908:GLU:HG2	2.13	0.49
1:C:1199:LYS:HA	1:C:1213:ILE:O	2.13	0.49
1:C:1205:TYR:CD2	1:D:1068:GLN:NE2	2.81	0.49
1:C:1706:LYS:NZ	1:C:1720:TRP:O	2.33	0.49
1:C:2460:PHE:HB3	1:D:2464:PHE:HE2	1.78	0.49
1:D:1205:TYR:CD2	1:E:1068:GLN:NE2	2.80	0.49
1:D:2215:VAL:O	1:D:2218:GLU:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2272:ARG:NH2	1:E:2318:GLU:HB3	2.28	0.49
1:D:2399:ARG:HE	1:D:2410:ARG:HH11	1.58	0.49
1:E:1098:HIS:HE1	1:E:1128:HIS:CD2	2.30	0.49
1:E:2266:TYR:CZ	1:E:2297:TRP:HB2	2.48	0.49
1:A:1002:GLU:CG	1:B:1882:TRP:HH2	2.25	0.48
1:A:1100:ASN:OD1	1:A:1101:ILE:N	2.46	0.48
1:A:1204:ARG:HD2	1:A:1210:ASN:OD1	2.13	0.48
1:A:2044:ILE:HG21	1:E:2245:PHE:CD2	2.48	0.48
1:A:2073:LYS:HD2	1:E:2222:LEU:CD1	2.32	0.48
1:B:1172:LEU:HB3	1:B:1198:LEU:HB3	1.95	0.48
1:B:2266:TYR:CZ	1:B:2297:TRP:HB2	2.48	0.48
1:C:1172:LEU:HB3	1:C:1198:LEU:HB3	1.95	0.48
1:C:1646:VAL:HG22	1:C:1687:ASN:HA	1.95	0.48
1:C:2365:SER:HA	1:C:2377:PHE:CD2	2.48	0.48
1:D:1122:TYR:HB3	1:D:1144:TRP:HB3	1.95	0.48
1:D:1975:SER:HB3	1:D:1981:LEU:HD23	1.94	0.48
1:D:2272:ARG:HH22	1:E:2318:GLU:HB3	1.77	0.48
1:D:2365:SER:HA	1:D:2377:PHE:CD2	2.48	0.48
1:E:1640:GLY:HA3	1:E:1691:PHE:CZ	2.48	0.48
1:A:1640:GLY:HA3	1:A:1691:PHE:CZ	2.48	0.48
1:A:1676:ILE:HG13	1:A:1677:TYR:N	2.28	0.48
1:A:1750:LEU:HB3	1:A:1753:ILE:HD12	1.96	0.48
1:B:2460:PHE:HB3	1:C:2464:PHE:CE2	2.48	0.48
1:C:121:GLU:HA	1:C:124:ARG:HG2	1.94	0.48
1:C:1269:ILE:C	1:D:1808:HIS:HE1	2.15	0.48
1:C:2425:PRO:HA	1:C:2426:TYR:HA	1.56	0.48
1:D:1204:ARG:HD2	1:D:1210:ASN:OD1	2.13	0.48
1:D:2183:GLU:CD	1:E:2111:GLU:HG2	2.34	0.48
1:D:2222:LEU:CD1	1:E:2073:LYS:HD2	2.30	0.48
1:E:124:ARG:HH12	1:E:1913:ILE:HA	1.77	0.48
1:E:1199:LYS:HA	1:E:1213:ILE:O	2.13	0.48
1:E:1204:ARG:HD2	1:E:1210:ASN:OD1	2.13	0.48
1:E:1711:PHE:H	1:E:1715:PRO:HG3	1.78	0.48
1:E:2365:SER:HA	1:E:2377:PHE:CD2	2.48	0.48
1:B:1204:ARG:CZ	1:C:1072:ASP:HB2	2.42	0.48
1:B:1205:TYR:CD2	1:C:1068:GLN:NE2	2.80	0.48
1:B:2089:LYS:HA	1:B:2206:ILE:HD13	1.95	0.48
1:D:899:GLY:O	1:D:908:GLU:HG2	2.13	0.48
1:D:1160:PRO:HA	1:D:1169:LEU:HA	1.95	0.48
1:D:1199:LYS:HA	1:D:1213:ILE:O	2.13	0.48
1:D:1676:ILE:HG13	1:D:1677:TYR:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1758:MET:O	1:D:1819:ARG:NH1	2.32	0.48
1:E:899:GLY:O	1:E:908:GLU:HG2	2.13	0.48
1:E:1100:ASN:OD1	1:E:1101:ILE:N	2.46	0.48
1:E:1642:TYR:HH	1:E:1689:THR:HG1	1.61	0.48
1:A:899:GLY:O	1:A:908:GLU:HG2	2.13	0.48
1:A:981:ILE:HD12	1:B:1973:ASN:HB2	1.96	0.48
1:A:1161:VAL:HG21	1:A:1245:LEU:HD11	1.96	0.48
1:A:1205:TYR:CD2	1:B:1068:GLN:NE2	2.81	0.48
1:A:2460:PHE:CE1	1:B:2512:ARG:HB3	2.48	0.48
1:B:1050:ARG:NH1	1:B:1770:GLU:HG2	2.29	0.48
1:C:1034:VAL:HB	1:D:1995:LEU:HD13	1.95	0.48
1:C:1204:ARG:HD2	1:C:1210:ASN:OD1	2.13	0.48
1:C:1665:ILE:O	1:C:1674:HIS:HB3	2.14	0.48
1:C:1750:LEU:HB3	1:C:1753:ILE:HD12	1.96	0.48
1:C:2448:LEU:HG	1:C:2458:GLY:H	1.79	0.48
1:D:1172:LEU:HB3	1:D:1198:LEU:HB3	1.95	0.48
1:E:1676:ILE:HG13	1:E:1677:TYR:N	2.28	0.48
1:E:2215:VAL:O	1:E:2218:GLU:HB3	2.13	0.48
1:A:1050:ARG:NH1	1:A:1770:GLU:HG2	2.29	0.48
1:A:1721:TRP:HA	1:A:1739:SER:OG	2.14	0.48
1:A:2089:LYS:HA	1:A:2206:ILE:HD13	1.95	0.48
1:B:124:ARG:HH12	1:B:1913:ILE:HA	1.77	0.48
1:B:1100:ASN:OD1	1:B:1101:ILE:N	2.46	0.48
1:B:1122:TYR:HB3	1:B:1144:TRP:HB3	1.95	0.48
1:B:1199:LYS:HA	1:B:1213:ILE:O	2.13	0.48
1:B:1665:ILE:O	1:B:1674:HIS:HB3	2.14	0.48
1:C:2266:TYR:CZ	1:C:2297:TRP:HB2	2.48	0.48
1:C:2430:GLN:HB2	1:C:2497:GLN:HE22	1.77	0.48
1:C:2459:GLN:HE22	1:C:2471:PRO:CD	2.24	0.48
1:D:1050:ARG:NH1	1:D:1770:GLU:HG2	2.29	0.48
1:D:1665:ILE:O	1:D:1674:HIS:HB3	2.14	0.48
1:D:2208:ALA:HB3	1:E:2084:VAL:HG22	1.91	0.48
1:D:2365:SER:HA	1:D:2377:PHE:HD2	1.79	0.48
1:E:92:TYR:C	1:E:92:TYR:CD2	2.86	0.48
1:A:1126:VAL:HA	1:A:1140:ALA:O	2.14	0.48
1:A:1616:ARG:HD3	1:A:1629:THR:HG23	1.96	0.48
1:A:2187:ARG:NH1	1:B:2108:ASN:OD1	2.47	0.48
1:B:121:GLU:HA	1:B:124:ARG:HG2	1.94	0.48
1:B:1616:ARG:HD3	1:B:1629:THR:HG23	1.96	0.48
1:B:1646:VAL:HG22	1:B:1687:ASN:HA	1.95	0.48
1:B:1750:LEU:HB3	1:B:1753:ILE:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1787:GLN:OE1	1:B:2011:GLU:CD	2.52	0.48
1:B:2365:SER:HA	1:B:2377:PHE:HD2	1.79	0.48
1:B:2448:LEU:HG	1:B:2458:GLY:H	1.79	0.48
1:B:2464:PHE:HZ	1:B:2512:ARG:HH11	1.61	0.48
1:C:2468:LYS:HD3	1:D:2327:ARG:HH11	1.79	0.48
1:D:1161:VAL:HG21	1:D:1245:LEU:HD11	1.96	0.48
1:D:2253:TRP:CE2	1:E:2301:TYR:CE2	3.02	0.48
1:E:1588:HIS:HD2	1:E:1594:GLN:HG2	1.79	0.48
1:E:1893:LYS:HB2	1:E:1960:TRP:CD1	2.49	0.48
1:E:2430:GLN:HB2	1:E:2497:GLN:HE22	1.77	0.48
1:A:1665:ILE:O	1:A:1674:HIS:HB3	2.14	0.48
1:A:1837:PRO:HG3	1:B:1996:LEU:CD1	2.43	0.48
1:B:899:GLY:O	1:B:908:GLU:HG2	2.13	0.48
1:B:1034:VAL:HB	1:C:1995:LEU:HD13	1.95	0.48
1:C:1787:GLN:OE1	1:C:2011:GLU:CD	2.52	0.48
1:C:2245:PHE:CD2	1:D:2044:ILE:HG21	2.48	0.48
1:D:1750:LEU:HB3	1:D:1753:ILE:HD12	1.96	0.48
1:D:1837:PRO:HG3	1:E:1996:LEU:CD1	2.44	0.48
1:D:2075:ILE:HD12	1:D:2224:LYS:HE3	1.96	0.48
1:E:1160:PRO:HA	1:E:1169:LEU:HA	1.95	0.48
1:E:1616:ARG:HD3	1:E:1629:THR:HG23	1.96	0.48
1:A:2425:PRO:HA	1:A:2426:TYR:HA	1.56	0.48
1:B:1132:ASN:HD21	1:B:1830:ASP:CG	2.16	0.48
1:B:1721:TRP:HA	1:B:1739:SER:OG	2.13	0.48
1:B:2222:LEU:HD11	1:C:2073:LYS:HE2	1.94	0.48
1:C:1050:ARG:HH12	1:C:1770:GLU:HG2	1.79	0.48
1:C:1126:VAL:HA	1:C:1140:ALA:O	2.14	0.48
1:D:1893:LYS:HB2	1:D:1960:TRP:CD1	2.49	0.48
1:D:2468:LYS:HD3	1:E:2327:ARG:HH11	1.78	0.48
1:E:1827:TRP:HZ3	1:E:1847:HIS:NE2	2.12	0.48
1:A:1098:HIS:HB3	1:A:1304:ASN:HB3	1.96	0.48
1:A:1199:LYS:HA	1:A:1213:ILE:O	2.13	0.48
1:A:1787:GLN:OE1	1:A:2011:GLU:CD	2.52	0.48
1:A:1967:VAL:HA	1:A:1970:LEU:HD13	1.96	0.48
1:A:2073:LYS:CD	1:E:2222:LEU:HD12	2.32	0.48
1:A:2459:GLN:HE22	1:A:2471:PRO:CD	2.24	0.48
1:B:1050:ARG:HH12	1:B:1770:GLU:HG2	1.79	0.48
1:B:2215:VAL:O	1:B:2218:GLU:HB3	2.13	0.48
1:C:2179:ILE:HG21	1:D:2114:ALA:H	1.75	0.48
1:C:2183:GLU:CD	1:D:2111:GLU:HG2	2.34	0.48
1:C:2253:TRP:CE2	1:D:2301:TYR:CD2	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1616:ARG:HD3	1:D:1629:THR:HG23	1.96	0.48
1:E:1665:ILE:O	1:E:1674:HIS:HB3	2.14	0.48
1:E:1721:TRP:HA	1:E:1739:SER:OG	2.14	0.48
1:A:2172:MET:HE2	1:B:2121:ALA:CB	2.43	0.48
1:B:1967:VAL:HA	1:B:1970:LEU:HD13	1.96	0.48
1:C:124:ARG:HH12	1:C:1913:ILE:HA	1.77	0.48
1:C:1711:PHE:H	1:C:1715:PRO:HG3	1.78	0.48
1:D:1269:ILE:C	1:E:1808:HIS:HE1	2.16	0.48
1:D:1711:PHE:H	1:D:1715:PRO:HG3	1.78	0.48
1:D:2172:MET:CE	1:E:2120:SER:C	2.82	0.48
1:E:1126:VAL:HA	1:E:1140:ALA:O	2.14	0.48
1:E:1172:LEU:HB3	1:E:1198:LEU:HB3	1.95	0.48
1:A:2448:LEU:HG	1:A:2458:GLY:H	1.79	0.47
1:B:1795:TRP:HA	1:B:1798:TYR:CD2	2.49	0.47
1:B:2016:LEU:HD11	1:C:2327:ARG:HB2	1.96	0.47
1:C:195:SER:C	1:C:952:ARG:HH22	2.17	0.47
1:C:1100:ASN:OD1	1:C:1101:ILE:N	2.46	0.47
1:C:1122:TYR:HB3	1:C:1144:TRP:HB3	1.95	0.47
1:C:1783:LEU:HD23	1:C:1783:LEU:HA	1.69	0.47
1:C:2089:LYS:HA	1:C:2206:ILE:HD13	1.95	0.47
1:C:2216:ARG:CA	1:D:2077:GLU:OE1	2.62	0.47
1:C:2460:PHE:CB	1:D:2464:PHE:HE2	2.27	0.47
1:D:1050:ARG:HH12	1:D:1770:GLU:HG2	1.79	0.47
1:D:1098:HIS:HB3	1:D:1304:ASN:HB3	1.96	0.47
1:D:1721:TRP:HA	1:D:1739:SER:OG	2.14	0.47
1:D:2089:LYS:HA	1:D:2206:ILE:HD13	1.95	0.47
1:E:1787:GLN:OE1	1:E:2011:GLU:CD	2.52	0.47
1:E:2155:GLY:O	1:E:2159:GLU:HG3	2.14	0.47
1:A:1878:GLU:OE1	1:E:1026:LYS:NZ	2.46	0.47
1:A:2172:MET:HE1	1:B:2121:ALA:N	2.22	0.47
1:A:2253:TRP:CE2	1:B:2301:TYR:CE2	3.02	0.47
1:A:2272:ARG:HH22	1:B:2318:GLU:HB3	1.79	0.47
1:B:195:SER:C	1:B:952:ARG:HH22	2.17	0.47
1:B:1098:HIS:HB3	1:B:1304:ASN:HB3	1.96	0.47
1:B:1126:VAL:HA	1:B:1140:ALA:O	2.14	0.47
1:B:1244:THR:HG21	1:C:1809:GLY:N	2.29	0.47
1:B:2172:MET:HE1	1:C:2121:ALA:N	2.24	0.47
1:B:2459:GLN:HE22	1:B:2471:PRO:CD	2.24	0.47
1:C:1795:TRP:HA	1:C:1798:TYR:CD2	2.49	0.47
1:C:2026:ALA:O	1:C:2029:MET:HB3	2.14	0.47
1:D:1132:ASN:HD21	1:D:1830:ASP:CG	2.16	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1588:HIS:HD2	1:D:1594:GLN:HG2	1.79	0.47
1:D:1787:GLN:OE1	1:D:2011:GLU:CD	2.52	0.47
1:D:2026:ALA:O	1:D:2029:MET:HB3	2.14	0.47
1:D:2448:LEU:HG	1:D:2458:GLY:H	1.79	0.47
1:D:2471:PRO:HG3	1:E:2327:ARG:NE	2.27	0.47
1:E:1663:LEU:HA	1:E:1709:MET:HA	1.96	0.47
1:E:1727:ARG:HA	1:E:1733:VAL:HG22	1.96	0.47
1:E:1750:LEU:HB3	1:E:1753:ILE:HD12	1.96	0.47
1:E:1841:ALA:O	1:E:1843:HIS:N	2.44	0.47
1:E:2089:LYS:HA	1:E:2206:ILE:HD13	1.95	0.47
1:E:2459:GLN:HE22	1:E:2471:PRO:CD	2.24	0.47
1:A:1270:PHE:HB3	1:B:1808:HIS:HB2	1.36	0.47
1:A:1834:SER:O	1:A:1835:VAL:HG12	2.14	0.47
1:A:2026:ALA:O	1:A:2029:MET:HB3	2.14	0.47
1:A:2114:ALA:H	1:E:2179:ILE:HG21	1.77	0.47
1:A:2327:ARG:HB2	1:E:2016:LEU:HD12	1.96	0.47
1:B:1270:PHE:HB3	1:C:1808:HIS:HB2	1.37	0.47
1:B:1834:SER:O	1:B:1835:VAL:HG12	2.15	0.47
1:C:1161:VAL:HG21	1:C:1245:LEU:HD11	1.96	0.47
1:D:125:GLU:HG3	1:D:1017:PHE:CG	2.49	0.47
1:D:934:LEU:O	1:D:938:LEU:HB3	2.15	0.47
1:D:1834:SER:O	1:D:1835:VAL:HG12	2.15	0.47
1:D:2155:GLY:O	1:D:2159:GLU:HG3	2.14	0.47
1:D:2281:ARG:HB3	1:D:2287:ASP:HA	1.96	0.47
1:D:2459:GLN:HE22	1:D:2471:PRO:CD	2.24	0.47
1:A:1269:ILE:C	1:B:1808:HIS:HE1	2.17	0.47
1:A:1893:LYS:HB2	1:A:1960:TRP:CD1	2.49	0.47
1:A:2120:SER:C	1:E:2172:MET:HE1	2.35	0.47
1:A:2155:GLY:O	1:A:2159:GLU:HG3	2.14	0.47
1:A:2464:PHE:CE2	1:E:2460:PHE:HB3	2.49	0.47
1:B:2013:PHE:HB3	1:B:2014:MET:H	1.51	0.47
1:B:2179:ILE:HG21	1:C:2114:ALA:H	1.75	0.47
1:C:1050:ARG:NH1	1:C:1770:GLU:HG2	2.29	0.47
1:C:1721:TRP:HA	1:C:1739:SER:OG	2.14	0.47
1:C:1893:LYS:HB2	1:C:1960:TRP:CD1	2.49	0.47
1:C:2013:PHE:CE1	1:D:2323:LYS:HG2	2.48	0.47
1:D:121:GLU:HA	1:D:124:ARG:HG2	1.94	0.47
1:D:1126:VAL:HA	1:D:1140:ALA:O	2.14	0.47
1:E:195:SER:C	1:E:952:ARG:HH22	2.17	0.47
1:E:2281:ARG:HB3	1:E:2287:ASP:HA	1.96	0.47
1:E:2365:SER:HA	1:E:2377:PHE:HD2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1050:ARG:HH12	1:A:1770:GLU:HG2	1.79	0.47
1:A:1172:LEU:HB3	1:A:1198:LEU:HB3	1.95	0.47
1:A:1727:ARG:HA	1:A:1733:VAL:HG22	1.96	0.47
1:A:2365:SER:HA	1:A:2377:PHE:HD2	1.79	0.47
1:B:1196:TYR:N	1:B:1218:ASN:OD1	2.41	0.47
1:B:1660:TRP:NE1	1:B:1661:PHE:O	2.47	0.47
1:B:2272:ARG:NH2	1:C:2318:GLU:HB3	2.30	0.47
1:B:2281:ARG:HB3	1:B:2287:ASP:HA	1.96	0.47
1:C:2253:TRP:NE1	1:D:2301:TYR:CE2	2.83	0.47
1:D:2464:PHE:HZ	1:D:2512:ARG:HH11	1.61	0.47
1:E:1795:TRP:HA	1:E:1798:TYR:CD2	2.49	0.47
1:E:1967:VAL:HA	1:E:1970:LEU:HD13	1.96	0.47
1:A:999:ARG:HE	1:A:1004:VAL:HG21	1.79	0.47
1:A:1235:TYR:CE2	1:A:1237:ALA:HB2	2.50	0.47
1:A:1711:PHE:H	1:A:1715:PRO:HG3	1.78	0.47
1:A:2016:LEU:CD2	1:A:2468:LYS:HG3	2.45	0.47
1:A:2142:PRO:HA	1:A:2143:ASN:HA	1.72	0.47
1:A:2172:MET:CE	1:B:2120:SER:C	2.81	0.47
1:B:1060:LEU:HD12	1:B:1081:TYR:HB2	1.96	0.47
1:B:2016:LEU:CD2	1:B:2468:LYS:HG3	2.44	0.47
1:C:1270:PHE:HB3	1:D:1808:HIS:HB2	1.35	0.47
1:C:1616:ARG:HD3	1:C:1629:THR:HG23	1.96	0.47
1:C:1897:PRO:O	1:C:1899:SER:OG	2.26	0.47
1:C:2075:ILE:HD12	1:C:2224:LYS:HE3	1.96	0.47
1:D:124:ARG:HH12	1:D:1913:ILE:HA	1.77	0.47
1:D:1204:ARG:CZ	1:E:1072:ASP:HB2	2.44	0.47
1:D:2016:LEU:CD2	1:D:2468:LYS:HG3	2.45	0.47
1:D:2054:ALA:O	1:D:2058:ASN:ND2	2.43	0.47
1:A:1795:TRP:HA	1:A:1798:TYR:CD2	2.50	0.47
1:A:2075:ILE:HD12	1:A:2224:LYS:HE3	1.96	0.47
1:A:2329:LEU:HD22	1:E:2447:ALA:CB	2.42	0.47
1:A:2464:PHE:HZ	1:A:2512:ARG:HH11	1.61	0.47
1:B:1161:VAL:HG21	1:B:1245:LEU:HD11	1.96	0.47
1:B:1727:ARG:HA	1:B:1733:VAL:HG22	1.97	0.47
1:B:2075:ILE:HD12	1:B:2224:LYS:HE3	1.96	0.47
1:B:2155:GLY:O	1:B:2159:GLU:HG3	2.14	0.47
1:B:2187:ARG:NH1	1:C:2108:ASN:CG	2.67	0.47
1:B:2460:PHE:CE2	1:C:2330:GLU:HG3	2.44	0.47
1:C:999:ARG:HE	1:C:1004:VAL:HG21	1.80	0.47
1:C:1112:GLY:N	1:C:1122:TYR:O	2.31	0.47
1:C:1594:GLN:HG3	1:C:1606:ASN:ND2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1967:VAL:HA	1:C:1970:LEU:HD13	1.96	0.47
1:C:2016:LEU:CD2	1:C:2468:LYS:HG3	2.44	0.47
1:C:2365:SER:HA	1:C:2377:PHE:HD2	1.79	0.47
1:D:1026:LYS:NZ	1:E:1878:GLU:OE1	2.47	0.47
1:D:1827:TRP:HZ3	1:D:1847:HIS:NE2	2.12	0.47
1:E:125:GLU:HG3	1:E:1017:PHE:CG	2.49	0.47
1:E:934:LEU:O	1:E:938:LEU:HB3	2.15	0.47
1:E:999:ARG:HE	1:E:1004:VAL:HG21	1.80	0.47
1:E:1018:PHE:HA	1:E:1021:TRP:HB2	1.97	0.47
1:E:2016:LEU:CD2	1:E:2468:LYS:HG3	2.45	0.47
1:E:2026:ALA:O	1:E:2029:MET:HB3	2.14	0.47
1:E:2075:ILE:HD12	1:E:2224:LYS:HE3	1.96	0.47
1:E:2448:LEU:HG	1:E:2458:GLY:H	1.79	0.47
1:E:2464:PHE:HZ	1:E:2512:ARG:HH11	1.61	0.47
1:A:934:LEU:O	1:A:938:LEU:HB3	2.15	0.47
1:A:2281:ARG:HB3	1:A:2287:ASP:HA	1.96	0.47
1:B:125:GLU:HG3	1:B:1017:PHE:CG	2.49	0.47
1:B:1837:PRO:HG3	1:C:1996:LEU:CD1	2.45	0.47
1:B:2245:PHE:CD2	1:C:2044:ILE:HG21	2.50	0.47
1:C:125:GLU:HG3	1:C:1017:PHE:CG	2.49	0.47
1:C:1098:HIS:HB3	1:C:1304:ASN:HB3	1.96	0.47
1:C:1663:LEU:HA	1:C:1709:MET:HA	1.97	0.47
1:C:2155:GLY:O	1:C:2159:GLU:HG3	2.14	0.47
1:D:195:SER:C	1:D:952:ARG:HH22	2.17	0.47
1:D:1018:PHE:HA	1:D:1021:TRP:HB2	1.97	0.47
1:D:1060:LEU:HD12	1:D:1081:TYR:HB2	1.96	0.47
1:D:2460:PHE:HB3	1:E:2464:PHE:HE2	1.80	0.47
1:E:1050:ARG:NH1	1:E:1770:GLU:HG2	2.29	0.47
1:A:1291:TYR:HA	1:A:1294:PHE:CE2	2.50	0.47
1:A:1827:TRP:HZ3	1:A:1847:HIS:NE2	2.12	0.47
1:B:999:ARG:HE	1:B:1004:VAL:HG21	1.79	0.47
1:B:1893:LYS:HB2	1:B:1960:TRP:CD1	2.49	0.47
1:B:2434:SER:HB3	1:B:2483:THR:CG2	2.45	0.47
1:D:1002:GLU:OE1	1:E:1885:GLN:OE1	2.32	0.47
1:D:1795:TRP:HA	1:D:1798:TYR:CD2	2.50	0.47
1:E:1098:HIS:HB3	1:E:1304:ASN:HB3	1.96	0.47
1:E:1161:VAL:HG21	1:E:1245:LEU:HD11	1.96	0.47
1:E:1660:TRP:HD1	1:E:1661:PHE:CA	2.25	0.47
1:E:1660:TRP:NE1	1:E:1661:PHE:O	2.47	0.47
1:A:1660:TRP:NE1	1:A:1661:PHE:O	2.47	0.47
1:A:2077:GLU:OE1	1:E:2216:ARG:CA	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2500:MET:O	1:A:2503:THR:N	2.48	0.47
1:B:2016:LEU:HD12	1:C:2327:ARG:HB2	1.96	0.47
1:C:1060:LEU:HD12	1:C:1081:TYR:HB2	1.96	0.47
1:C:1204:ARG:CZ	1:D:1072:ASP:HB2	2.44	0.47
1:C:1834:SER:O	1:C:1835:VAL:HG12	2.15	0.47
1:D:1235:TYR:CE2	1:D:1237:ALA:HB2	2.50	0.47
1:D:1975:SER:OG	1:D:1979:GLN:O	2.33	0.47
1:D:2253:TRP:NE1	1:E:2301:TYR:CE2	2.83	0.47
1:D:2434:SER:HB3	1:D:2483:THR:CG2	2.45	0.47
1:E:1897:PRO:O	1:E:1899:SER:OG	2.26	0.47
1:A:1026:LYS:HZ3	1:B:1878:GLU:CD	2.17	0.46
1:A:1808:HIS:HE1	1:E:1269:ILE:C	2.18	0.46
1:B:934:LEU:O	1:B:938:LEU:HB3	2.15	0.46
1:B:1736:ASN:HB3	1:B:1738:LYS:HZ1	1.79	0.46
1:C:934:LEU:O	1:C:938:LEU:HB3	2.15	0.46
1:D:999:ARG:HE	1:D:1004:VAL:HG21	1.80	0.46
1:D:2183:GLU:OE2	1:E:2111:GLU:CD	2.52	0.46
1:D:2253:TRP:CE2	1:E:2301:TYR:CD2	3.03	0.46
1:A:195:SER:C	1:A:952:ARG:HH22	2.17	0.46
1:A:1060:LEU:HD12	1:A:1081:TYR:HB2	1.96	0.46
1:A:1107:LEU:HD23	1:A:1109:TYR:HE1	1.81	0.46
1:A:1204:ARG:CZ	1:B:1072:ASP:HB2	2.45	0.46
1:A:1967:VAL:O	1:A:1970:LEU:N	2.49	0.46
1:A:2263:PHE:O	1:A:2266:TYR:HB3	2.16	0.46
1:A:2318:GLU:HB3	1:E:2272:ARG:HH22	1.80	0.46
1:A:2430:GLN:N	1:A:2497:GLN:HE22	2.13	0.46
1:A:2434:SER:HB3	1:A:2483:THR:CG2	2.45	0.46
1:B:1291:TYR:HA	1:B:1294:PHE:CE2	2.50	0.46
1:B:1588:HIS:HD2	1:B:1594:GLN:HG2	1.79	0.46
1:C:1235:TYR:CE2	1:C:1237:ALA:HB2	2.50	0.46
1:D:1594:GLN:HG3	1:D:1606:ASN:ND2	2.30	0.46
1:D:1651:ASN:C	1:D:1653:SER:H	2.19	0.46
1:D:1660:TRP:HD1	1:D:1661:PHE:CA	2.25	0.46
1:D:2172:MET:HE2	1:E:2121:ALA:CB	2.44	0.46
1:E:1050:ARG:HH12	1:E:1770:GLU:HG2	1.79	0.46
1:E:1286:TYR:O	1:E:1290:SER:CB	2.63	0.46
1:A:2124:LEU:HD21	1:E:2166:GLU:HA	1.98	0.46
1:B:1594:GLN:HG3	1:B:1606:ASN:ND2	2.30	0.46
1:B:2026:ALA:O	1:B:2029:MET:HB3	2.14	0.46
1:B:2263:PHE:O	1:B:2266:TYR:HB3	2.16	0.46
1:C:918:ALA:O	1:C:922:LEU:HG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:981:ILE:HD12	1:D:1973:ASN:HB2	1.96	0.46
1:C:2183:GLU:OE2	1:D:2111:GLU:CD	2.53	0.46
1:D:918:ALA:O	1:D:922:LEU:HG	2.16	0.46
1:D:934:LEU:O	1:D:938:LEU:CB	2.64	0.46
1:D:1727:ARG:HA	1:D:1733:VAL:HG22	1.96	0.46
1:D:1836:ASP:HB3	1:D:1839:ALA:HB3	1.98	0.46
1:E:2399:ARG:HH22	1:E:2408:LYS:HD2	1.80	0.46
1:E:2500:MET:O	1:E:2503:THR:N	2.48	0.46
1:A:125:GLU:HG3	1:A:1017:PHE:CG	2.49	0.46
1:A:1808:HIS:HB2	1:E:1270:PHE:HB3	1.35	0.46
1:A:2253:TRP:NE1	1:B:2301:TYR:CE2	2.84	0.46
1:A:2272:ARG:NH2	1:B:2318:GLU:HB3	2.29	0.46
1:A:2471:PRO:HG3	1:B:2327:ARG:NE	2.28	0.46
1:B:1235:TYR:CE2	1:B:1237:ALA:HB2	2.50	0.46
1:B:1286:TYR:O	1:B:1290:SER:CB	2.63	0.46
1:B:2172:MET:HG2	1:C:2117:LEU:CG	2.30	0.46
1:B:2183:GLU:OE2	1:C:2111:GLU:CD	2.54	0.46
1:B:2500:MET:O	1:B:2503:THR:N	2.48	0.46
1:C:118:TYR:OH	1:C:1025:ASN:O	2.27	0.46
1:C:1088:VAL:HG13	1:C:1144:TRP:CD1	2.51	0.46
1:C:1302:VAL:CG1	1:C:1584:LEU:HG	2.46	0.46
1:C:2172:MET:HE2	1:D:2121:ALA:CB	2.44	0.46
1:C:2187:ARG:NH1	1:D:2108:ASN:OD1	2.48	0.46
1:D:968:TYR:HD1	1:D:973:ILE:C	2.19	0.46
1:D:995:LEU:CD1	1:E:1881:MET:HB3	2.46	0.46
1:D:1967:VAL:HA	1:D:1970:LEU:HD13	1.96	0.46
1:D:2399:ARG:HH22	1:D:2408:LYS:HD2	1.80	0.46
1:D:2500:MET:O	1:D:2503:THR:N	2.48	0.46
1:E:1107:LEU:HD23	1:E:1109:TYR:HE1	1.81	0.46
1:E:2434:SER:HB3	1:E:2483:THR:CG2	2.45	0.46
1:A:1018:PHE:HA	1:A:1021:TRP:HB2	1.97	0.46
1:A:1021:TRP:HA	1:A:1025:ASN:HB2	1.98	0.46
1:A:1026:LYS:NZ	1:B:1878:GLU:OE1	2.49	0.46
1:A:1651:ASN:C	1:A:1653:SER:H	2.19	0.46
1:A:2108:ASN:OD1	1:E:2187:ARG:NH1	2.49	0.46
1:A:2399:ARG:HH22	1:A:2408:LYS:HD2	1.80	0.46
1:B:1827:TRP:HZ3	1:B:1847:HIS:NE2	2.12	0.46
1:B:2399:ARG:HH22	1:B:2408:LYS:HD2	1.80	0.46
1:B:2430:GLN:N	1:B:2497:GLN:HE22	2.13	0.46
1:C:934:LEU:O	1:C:938:LEU:CB	2.64	0.46
1:C:1002:GLU:OE1	1:D:1885:GLN:OE1	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1055:LYS:O	1:C:1058:ASP:N	2.49	0.46
1:C:1088:VAL:CG1	1:C:1144:TRP:HD1	2.29	0.46
1:C:1269:ILE:C	1:D:1808:HIS:CE1	2.86	0.46
1:C:1291:TYR:HA	1:C:1294:PHE:CE2	2.50	0.46
1:C:1588:HIS:HD2	1:C:1594:GLN:HG2	1.79	0.46
1:D:1107:LEU:HD23	1:D:1109:TYR:HE1	1.81	0.46
1:D:2142:PRO:HA	1:D:2143:ASN:HA	1.72	0.46
1:D:2460:PHE:CB	1:E:2464:PHE:HE2	2.28	0.46
1:E:968:TYR:HD1	1:E:973:ILE:C	2.19	0.46
1:E:1021:TRP:HA	1:E:1025:ASN:HB2	1.98	0.46
1:E:1291:TYR:HA	1:E:1294:PHE:CE2	2.50	0.46
1:E:1836:ASP:HB3	1:E:1839:ALA:HB3	1.98	0.46
1:E:2430:GLN:N	1:E:2497:GLN:HE22	2.13	0.46
1:A:1726:VAL:O	1:A:1733:VAL:HG13	2.16	0.46
1:A:2117:LEU:O	1:E:2172:MET:HE3	2.15	0.46
1:A:2154:TRP:O	1:A:2158:ALA:HB3	2.16	0.46
1:B:2468:LYS:CD	1:C:2327:ARG:HH11	2.24	0.46
1:C:1044:TYR:CE1	1:D:1992:PRO:HB2	2.51	0.46
1:C:1827:TRP:HZ3	1:C:1847:HIS:NE2	2.12	0.46
1:C:1837:PRO:HG3	1:D:1996:LEU:CD1	2.46	0.46
1:D:1021:TRP:HA	1:D:1025:ASN:HB2	1.98	0.46
1:D:1055:LYS:O	1:D:1058:ASP:N	2.49	0.46
1:D:1088:VAL:HG13	1:D:1144:TRP:CD1	2.51	0.46
1:D:1301:ARG:HA	1:D:1584:LEU:O	2.16	0.46
1:D:2187:ARG:NH1	1:E:2108:ASN:OD1	2.49	0.46
1:D:2201:ALA:CB	1:E:2091:GLY:HA3	2.46	0.46
1:D:2468:LYS:CD	1:E:2327:ARG:HH11	2.28	0.46
1:E:986:ILE:O	1:E:990:ILE:HG13	2.16	0.46
1:E:1235:TYR:CE2	1:E:1237:ALA:HB2	2.50	0.46
1:E:1660:TRP:CH2	1:E:1680:GLN:HB3	2.36	0.46
1:E:1834:SER:O	1:E:1835:VAL:HG12	2.15	0.46
1:A:918:ALA:O	1:A:922:LEU:HG	2.16	0.46
1:A:934:LEU:O	1:A:938:LEU:CB	2.64	0.46
1:A:1055:LYS:H	1:A:1143:GLU:CD	2.19	0.46
1:A:1588:HIS:HD2	1:A:1594:GLN:HG2	1.79	0.46
1:A:1682:THR:HG22	1:A:1683:ASP:N	2.31	0.46
1:A:2253:TRP:CE2	1:B:2301:TYR:CD2	3.03	0.46
1:A:2318:GLU:HB3	1:E:2272:ARG:NH2	2.30	0.46
1:A:2447:ALA:CB	1:B:2329:LEU:HD22	2.42	0.46
1:B:1055:LYS:O	1:B:1058:ASP:N	2.49	0.46
1:B:1088:VAL:HG13	1:B:1144:TRP:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1107:LEU:HD23	1:B:1109:TYR:HE1	1.81	0.46
1:B:1594:GLN:H	1:B:1606:ASN:CG	2.19	0.46
1:B:1651:ASN:C	1:B:1653:SER:H	2.19	0.46
1:B:1663:LEU:HA	1:B:1709:MET:HA	1.97	0.46
1:B:1967:VAL:O	1:B:1970:LEU:N	2.49	0.46
1:B:2183:GLU:CD	1:C:2111:GLU:HG2	2.36	0.46
1:C:1103:ASN:ND2	1:C:1598:TRP:CG	2.76	0.46
1:C:1727:ARG:HA	1:C:1733:VAL:HG22	1.97	0.46
1:C:1868:TYR:CE1	1:C:1970:LEU:HG	2.47	0.46
1:D:1044:TYR:CE2	1:E:1992:PRO:HB3	2.51	0.46
1:D:1663:LEU:HA	1:D:1709:MET:HA	1.96	0.46
1:D:2166:GLU:HA	1:E:2124:LEU:HD21	1.98	0.46
1:E:1594:GLN:HG3	1:E:1606:ASN:ND2	2.30	0.46
1:E:2452:HIS:HD2	1:E:2454:MET:O	1.98	0.46
1:A:1286:TYR:O	1:A:1290:SER:CB	2.63	0.46
1:A:1594:GLN:H	1:A:1606:ASN:CG	2.19	0.46
1:A:1664:TYR:HB2	1:A:1708:TYR:HB2	1.98	0.46
1:A:1758:MET:O	1:A:1819:ARG:NH1	2.32	0.46
1:A:2166:GLU:HA	1:B:2124:LEU:HD21	1.97	0.46
1:A:2452:HIS:HD2	1:A:2454:MET:O	1.99	0.46
1:B:1057:MET:HE2	1:B:1770:GLU:HB3	1.98	0.46
1:B:2172:MET:CE	1:C:2120:SER:C	2.83	0.46
1:B:2253:TRP:CE2	1:C:2301:TYR:CE2	3.03	0.46
1:C:1018:PHE:HA	1:C:1021:TRP:HB2	1.97	0.46
1:C:1196:TYR:N	1:C:1218:ASN:OD1	2.41	0.46
1:C:1242:GLU:HA	1:D:1806:ILE:HG23	1.98	0.46
1:C:1660:TRP:NE1	1:C:1661:PHE:O	2.47	0.46
1:C:1758:MET:O	1:C:1819:ARG:NH1	2.32	0.46
1:C:2430:GLN:N	1:C:2497:GLN:HE22	2.13	0.46
1:D:1242:GLU:CA	1:E:1806:ILE:HG23	2.46	0.46
1:D:1957:MET:HA	1:D:1960:TRP:HE3	1.81	0.46
1:D:2154:TRP:O	1:D:2158:ALA:HB3	2.16	0.46
1:D:2169:ALA:CB	1:E:2124:LEU:HD11	2.27	0.46
1:D:2430:GLN:N	1:D:2497:GLN:HE22	2.13	0.46
1:E:214:GLN:O	1:E:215:ASP:C	2.54	0.46
1:E:1057:MET:HE2	1:E:1770:GLU:HB3	1.97	0.46
1:A:968:TYR:HD1	1:A:973:ILE:C	2.19	0.46
1:A:1885:GLN:OE1	1:E:1002:GLU:OE1	2.34	0.46
1:A:2468:LYS:CD	1:B:2327:ARG:HH11	2.28	0.46
1:B:1269:ILE:C	1:C:1808:HIS:HE1	2.18	0.46
1:B:2272:ARG:HH22	1:C:2318:GLU:HB3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1664:TYR:HB2	1:C:1708:TYR:HB2	1.98	0.46
1:C:2471:PRO:CG	1:D:2327:ARG:HE	2.26	0.46
1:C:2500:MET:O	1:C:2503:THR:N	2.48	0.46
1:D:1088:VAL:CG1	1:D:1144:TRP:HD1	2.29	0.46
1:D:1286:TYR:O	1:D:1290:SER:CB	2.63	0.46
1:D:1291:TYR:HA	1:D:1294:PHE:CE2	2.50	0.46
1:D:2304:LEU:HD23	1:D:2304:LEU:HA	1.81	0.46
1:E:1060:LEU:HD12	1:E:1081:TYR:HB2	1.96	0.46
1:E:1081:TYR:HD2	1:E:1771:LEU:HD12	1.81	0.46
1:A:1055:LYS:O	1:A:1058:ASP:N	2.49	0.46
1:A:1301:ARG:HA	1:A:1584:LEU:O	2.16	0.46
1:A:1836:ASP:HB3	1:A:1839:ALA:HB3	1.98	0.46
1:B:1055:LYS:H	1:B:1143:GLU:CD	2.19	0.46
1:B:1302:VAL:CG1	1:B:1584:LEU:HG	2.46	0.46
1:B:2452:HIS:HD2	1:B:2454:MET:O	1.99	0.46
1:C:968:TYR:HD1	1:C:973:ILE:C	2.19	0.46
1:C:1301:ARG:HA	1:C:1584:LEU:O	2.16	0.46
1:D:986:ILE:O	1:D:990:ILE:HG13	2.16	0.46
1:D:1203:ILE:HG13	1:D:1209:TRP:CZ3	2.51	0.46
1:D:1682:THR:HG22	1:D:1683:ASP:N	2.31	0.46
1:D:1726:VAL:O	1:D:1733:VAL:HG13	2.16	0.46
1:D:2264:GLN:OE1	1:E:2312:LEU:HD21	2.16	0.46
1:E:918:ALA:O	1:E:922:LEU:HG	2.16	0.46
1:E:934:LEU:O	1:E:938:LEU:CB	2.64	0.46
1:E:1088:VAL:HG13	1:E:1144:TRP:CD1	2.51	0.46
1:E:1301:ARG:HA	1:E:1584:LEU:O	2.16	0.46
1:E:1302:VAL:CG1	1:E:1584:LEU:HG	2.46	0.46
1:E:1651:ASN:C	1:E:1653:SER:H	2.19	0.46
1:E:1726:VAL:O	1:E:1733:VAL:HG13	2.16	0.46
1:E:1957:MET:HA	1:E:1960:TRP:HE3	1.81	0.46
1:E:2263:PHE:O	1:E:2266:TYR:HB3	2.16	0.46
1:A:1060:LEU:O	1:A:1064:VAL:HG12	2.16	0.45
1:B:961:ILE:HG23	1:B:962:LYS:N	2.31	0.45
1:B:986:ILE:O	1:B:990:ILE:HG13	2.16	0.45
1:B:1580:THR:HG21	1:B:1599:GLN:HE22	1.81	0.45
1:B:1664:TYR:HB2	1:B:1708:TYR:HB2	1.98	0.45
1:B:1682:THR:HG22	1:B:1683:ASP:N	2.31	0.45
1:B:1957:MET:HA	1:B:1960:TRP:HE3	1.81	0.45
1:B:2377:PHE:HE1	1:B:2387:LEU:HB2	1.81	0.45
1:C:2399:ARG:HH22	1:C:2408:LYS:HD2	1.81	0.45
1:D:1060:LEU:O	1:D:1064:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1092:LYS:HA	1:D:1594:GLN:NE2	2.24	0.45
1:D:1963:LEU:HD23	1:D:1963:LEU:HA	1.78	0.45
1:E:933:THR:O	1:E:936:ALA:HB3	2.16	0.45
1:E:1038:VAL:O	1:E:1041:PRO:HD3	2.16	0.45
1:E:1088:VAL:CG1	1:E:1144:TRP:HD1	2.29	0.45
1:A:1032:ALA:CB	1:B:1989:PRO:HB3	2.46	0.45
1:A:1663:LEU:HA	1:A:1709:MET:HA	1.96	0.45
1:A:2201:ALA:CB	1:B:2091:GLY:CA	2.95	0.45
1:A:2216:ARG:CA	1:B:2077:GLU:OE1	2.59	0.45
1:A:2301:TYR:CE2	1:E:2253:TRP:CE2	3.04	0.45
1:B:214:GLN:O	1:B:215:ASP:C	2.54	0.45
1:B:918:ALA:O	1:B:922:LEU:HG	2.16	0.45
1:B:1088:VAL:CG1	1:B:1144:TRP:HD1	2.29	0.45
1:B:1726:VAL:O	1:B:1733:VAL:HG13	2.16	0.45
1:B:2460:PHE:HB3	1:C:2464:PHE:HE2	1.81	0.45
1:C:1038:VAL:O	1:C:1041:PRO:HD3	2.16	0.45
1:C:1651:ASN:C	1:C:1653:SER:H	2.19	0.45
1:C:1682:THR:HG22	1:C:1683:ASP:N	2.31	0.45
1:C:1859:LEU:HA	1:C:1859:LEU:HD12	1.71	0.45
1:C:1967:VAL:O	1:C:1970:LEU:N	2.49	0.45
1:C:2281:ARG:HB3	1:C:2287:ASP:HA	1.96	0.45
1:C:2360:LEU:HD22	1:C:2375:LEU:CD2	2.47	0.45
1:D:1660:TRP:NE1	1:D:1661:PHE:O	2.47	0.45
1:E:1132:ASN:HD21	1:E:1830:ASP:CG	2.16	0.45
1:A:1088:VAL:HG13	1:A:1144:TRP:CD1	2.51	0.45
1:A:1825:THR:HG22	1:A:1849:LYS:NZ	2.32	0.45
1:A:1957:MET:HA	1:A:1960:TRP:HE3	1.81	0.45
1:A:2016:LEU:HD12	1:B:2327:ARG:HB2	1.99	0.45
1:A:2176:ALA:HB2	1:B:2117:LEU:HD13	1.84	0.45
1:B:1018:PHE:HA	1:B:1021:TRP:HB2	1.97	0.45
1:C:1081:TYR:HD2	1:C:1771:LEU:HD12	1.81	0.45
1:C:1726:VAL:O	1:C:1733:VAL:HG13	2.16	0.45
1:C:1836:ASP:HB3	1:C:1839:ALA:HB3	1.98	0.45
1:C:2434:SER:HB3	1:C:2483:THR:CG2	2.45	0.45
1:D:1057:MET:HE2	1:D:1770:GLU:HB3	1.98	0.45
1:D:1302:VAL:CG1	1:D:1584:LEU:HG	2.46	0.45
1:D:1594:GLN:H	1:D:1606:ASN:CG	2.19	0.45
1:D:2016:LEU:HD12	1:E:2327:ARG:HB2	1.97	0.45
1:D:2263:PHE:O	1:D:2266:TYR:HB3	2.16	0.45
1:E:1055:LYS:O	1:E:1058:ASP:N	2.49	0.45
1:A:1038:VAL:O	1:A:1041:PRO:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1594:GLN:HG3	1:A:1606:ASN:ND2	2.30	0.45
1:A:1623:THR:CA	1:E:1272:ASP:CG	2.43	0.45
1:A:2327:ARG:HB2	1:E:2016:LEU:HD11	1.97	0.45
1:A:2377:PHE:HE1	1:A:2387:LEU:HB2	1.81	0.45
1:B:160:SER:HA	1:B:982:LYS:HD2	1.99	0.45
1:B:934:LEU:O	1:B:938:LEU:CB	2.64	0.45
1:C:1735:ILE:HD11	1:C:1741:LEU:HD11	1.98	0.45
1:C:1825:THR:HG22	1:C:1849:LYS:NZ	2.32	0.45
1:D:1270:PHE:HB3	1:E:1808:HIS:HB2	1.35	0.45
1:D:2013:PHE:CE1	1:E:2323:LYS:HG2	2.50	0.45
1:E:1825:THR:HG22	1:E:1849:LYS:NZ	2.32	0.45
1:A:160:SER:HA	1:A:982:LYS:HD2	1.99	0.45
1:A:210:VAL:O	1:A:213:LEU:CB	2.65	0.45
1:A:961:ILE:HG23	1:A:962:LYS:N	2.31	0.45
1:A:1302:VAL:CG1	1:A:1584:LEU:HG	2.46	0.45
1:A:2111:GLU:HG2	1:E:2183:GLU:CD	2.37	0.45
1:B:1825:THR:HG22	1:B:1849:LYS:NZ	2.32	0.45
1:B:2096:PHE:CE1	1:B:2200:GLU:HB2	2.52	0.45
1:B:2166:GLU:HA	1:C:2124:LEU:HD21	1.97	0.45
1:B:2360:LEU:HD22	1:B:2375:LEU:CD2	2.47	0.45
1:C:1021:TRP:HA	1:C:1025:ASN:HB2	1.98	0.45
1:C:1060:LEU:O	1:C:1064:VAL:HG12	2.16	0.45
1:C:1242:GLU:CA	1:D:1806:ILE:HG23	2.47	0.45
1:C:1286:TYR:O	1:C:1290:SER:CB	2.63	0.45
1:C:1841:ALA:O	1:C:1843:HIS:N	2.44	0.45
1:C:1975:SER:OG	1:C:1979:GLN:O	2.33	0.45
1:C:2154:TRP:O	1:C:2158:ALA:HB3	2.16	0.45
1:C:2166:GLU:HA	1:D:2124:LEU:HD21	1.98	0.45
1:C:2383:THR:CG2	1:D:2403:PRO:HB3	2.46	0.45
1:D:933:THR:O	1:D:936:ALA:HB3	2.16	0.45
1:D:1032:ALA:CB	1:E:1989:PRO:HB3	2.46	0.45
1:D:1242:GLU:HA	1:E:1806:ILE:HG23	1.99	0.45
1:D:2452:HIS:HD2	1:D:2454:MET:O	1.99	0.45
1:E:1055:LYS:H	1:E:1143:GLU:CD	2.19	0.45
1:E:1594:GLN:H	1:E:1606:ASN:CG	2.19	0.45
1:E:1664:TYR:HE1	1:E:1710:THR:HG1	1.60	0.45
1:E:2358:ASP:O	1:E:2362:SER:OG	2.22	0.45
1:E:2377:PHE:HE1	1:E:2387:LEU:HB2	1.81	0.45
1:A:995:LEU:CD1	1:B:1881:MET:HB3	2.46	0.45
1:A:1002:GLU:OE1	1:B:1885:GLN:OE1	2.35	0.45
1:A:1088:VAL:CG1	1:A:1144:TRP:HD1	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1580:THR:HG21	1:A:1599:GLN:HE22	1.81	0.45
1:A:1973:ASN:HB2	1:E:981:ILE:HD12	1.97	0.45
1:A:1989:PRO:HB3	1:E:1032:ALA:CB	2.45	0.45
1:B:1021:TRP:HA	1:B:1025:ASN:HB2	1.98	0.45
1:B:1642:TYR:OH	1:B:1689:THR:OG1	2.34	0.45
1:B:1963:LEU:HD23	1:B:1963:LEU:HA	1.78	0.45
1:C:2016:LEU:HD12	1:D:2327:ARG:HB2	1.98	0.45
1:C:2016:LEU:HD21	1:C:2468:LYS:NZ	2.32	0.45
1:C:2071:GLN:O	1:C:2074:THR:HG22	2.17	0.45
1:C:2452:HIS:HD2	1:C:2454:MET:O	1.99	0.45
1:C:2460:PHE:CB	1:D:2464:PHE:CE2	2.99	0.45
1:D:961:ILE:HG23	1:D:962:LYS:N	2.31	0.45
1:D:1825:THR:HG22	1:D:1849:LYS:NZ	2.32	0.45
1:D:2348:ASN:CB	1:D:2370:SER:HB2	2.47	0.45
1:D:2377:PHE:HE1	1:D:2387:LEU:HB2	1.81	0.45
1:E:961:ILE:HG23	1:E:962:LYS:N	2.31	0.45
1:E:1664:TYR:HB2	1:E:1708:TYR:HB2	1.98	0.45
1:A:933:THR:O	1:A:936:ALA:HB3	2.16	0.45
1:A:2071:GLN:O	1:A:2074:THR:HG22	2.17	0.45
1:A:2201:ALA:CB	1:B:2091:GLY:HA3	2.45	0.45
1:B:210:VAL:O	1:B:213:LEU:CB	2.65	0.45
1:C:902:TYR:CB	1:C:907:LYS:NZ	2.80	0.45
1:C:933:THR:O	1:C:936:ALA:HB3	2.16	0.45
1:C:961:ILE:HG23	1:C:962:LYS:N	2.31	0.45
1:C:1055:LYS:H	1:C:1143:GLU:CD	2.20	0.45
1:C:1594:GLN:H	1:C:1606:ASN:CG	2.19	0.45
1:C:1841:ALA:C	1:C:1843:HIS:N	2.70	0.45
1:C:1957:MET:HA	1:C:1960:TRP:HE3	1.81	0.45
1:C:2438:LYS:HB2	1:C:2438:LYS:HE3	1.83	0.45
1:D:160:SER:HA	1:D:982:LYS:HD2	1.99	0.45
1:D:1044:TYR:CE1	1:E:1992:PRO:HB2	2.51	0.45
1:D:1580:THR:HG21	1:D:1599:GLN:HE22	1.81	0.45
1:E:210:VAL:O	1:E:213:LEU:CB	2.65	0.45
1:E:1580:THR:HG21	1:E:1599:GLN:HE22	1.81	0.45
1:E:1735:ILE:HD11	1:E:1741:LEU:HD11	1.98	0.45
1:E:2360:LEU:HD22	1:E:2375:LEU:CD2	2.47	0.45
1:E:2418:THR:HG22	1:E:2420:PRO:HD3	1.99	0.45
1:A:1760:PHE:CD2	1:A:1820:PRO:CG	3.00	0.45
1:A:2121:ALA:CA	1:E:2172:MET:HE3	2.33	0.45
1:B:1038:VAL:O	1:B:1041:PRO:HD3	2.16	0.45
1:B:1664:TYR:CD2	1:B:1673:SER:HB3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1836:ASP:HB3	1:B:1839:ALA:HB3	1.98	0.45
1:B:2013:PHE:CE1	1:C:2323:LYS:HG2	2.50	0.45
1:B:2085:LEU:HD12	1:B:2213:LEU:HD12	1.99	0.45
1:B:2282:TRP:CH2	1:B:2440:GLY:HA3	2.52	0.45
1:C:986:ILE:O	1:C:990:ILE:HG13	2.16	0.45
1:C:1026:LYS:NZ	1:D:1878:GLU:OE1	2.49	0.45
1:C:1203:ILE:HG13	1:C:1209:TRP:CZ3	2.51	0.45
1:C:1833:ASP:OD1	1:C:1834:SER:N	2.49	0.45
1:C:2085:LEU:HD12	1:C:2213:LEU:HD12	1.99	0.45
1:C:2142:PRO:HA	1:C:2143:ASN:HA	1.72	0.45
1:C:2263:PHE:O	1:C:2266:TYR:HB3	2.15	0.45
1:D:1664:TYR:HB2	1:D:1708:TYR:HB2	1.98	0.45
1:D:1783:LEU:HA	1:D:1783:LEU:HD23	1.69	0.45
1:E:1841:ALA:C	1:E:1843:HIS:N	2.70	0.45
1:E:2016:LEU:HD21	1:E:2468:LYS:NZ	2.32	0.45
1:E:2071:GLN:O	1:E:2074:THR:HG22	2.17	0.45
1:A:1735:ILE:HD11	1:A:1741:LEU:HD11	1.98	0.45
1:A:2096:PHE:CE1	1:A:2200:GLU:HB2	2.52	0.45
1:A:2124:LEU:HG	1:E:2165:MET:CG	2.47	0.45
1:A:2282:TRP:CH2	1:A:2440:GLY:HA3	2.52	0.45
1:A:2360:LEU:HD22	1:A:2375:LEU:CD2	2.47	0.45
1:B:933:THR:O	1:B:936:ALA:HB3	2.16	0.45
1:B:1040:TYR:CZ	1:B:1953:ASN:HB2	2.52	0.45
1:B:1081:TYR:HD2	1:B:1771:LEU:HD12	1.81	0.45
1:B:1841:ALA:O	1:B:1843:HIS:N	2.44	0.45
1:B:2154:TRP:O	1:B:2158:ALA:HB3	2.16	0.45
1:B:2184:THR:O	1:B:2188:ARG:HG2	2.17	0.45
1:C:93:ASN:OD1	1:C:1894:PRO:HB3	2.17	0.45
1:C:1580:THR:HG21	1:C:1599:GLN:HE22	1.81	0.45
1:D:214:GLN:O	1:D:215:ASP:C	2.54	0.45
1:D:1735:ILE:HD11	1:D:1741:LEU:HD11	1.98	0.45
1:D:2383:THR:HG23	1:E:2403:PRO:HB3	1.99	0.45
1:A:986:ILE:O	1:A:990:ILE:HG13	2.16	0.45
1:A:1736:ASN:HB3	1:A:1738:LYS:HZ1	1.82	0.45
1:A:2016:LEU:HD11	1:B:2327:ARG:HB2	1.99	0.45
1:B:902:TYR:CB	1:B:907:LYS:NZ	2.80	0.45
1:B:968:TYR:HD1	1:B:973:ILE:C	2.19	0.45
1:B:1060:LEU:O	1:B:1064:VAL:HG12	2.16	0.45
1:B:1841:ALA:C	1:B:1843:HIS:N	2.70	0.45
1:B:2016:LEU:HD21	1:B:2468:LYS:NZ	2.32	0.45
1:C:1040:TYR:CZ	1:C:1953:ASN:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2500:MET:HG3	1:C:2501:LEU:N	2.32	0.45
1:D:1002:GLU:CG	1:E:1882:TRP:HH2	2.24	0.45
1:D:1040:TYR:CZ	1:D:1953:ASN:HB2	2.52	0.45
1:D:1664:TYR:CD2	1:D:1673:SER:HB3	2.52	0.45
1:D:1841:ALA:C	1:D:1843:HIS:N	2.70	0.45
1:D:1841:ALA:HB1	1:D:1848:TYR:CE2	2.52	0.45
1:D:2071:GLN:O	1:D:2074:THR:HG22	2.17	0.45
1:D:2236:SER:OG	1:E:2059:GLN:NE2	2.50	0.45
1:D:2471:PRO:CG	1:E:2327:ARG:HE	2.28	0.45
1:E:1841:ALA:HB1	1:E:1848:TYR:CE2	2.52	0.45
1:A:1664:TYR:CD2	1:A:1673:SER:HB3	2.52	0.44
1:A:1841:ALA:C	1:A:1843:HIS:N	2.70	0.44
1:A:2103:TYR:CD2	1:A:2104:ASP:OD1	2.70	0.44
1:A:2184:THR:O	1:A:2188:ARG:HG2	2.17	0.44
1:A:2327:ARG:NE	1:E:2471:PRO:HG3	2.29	0.44
1:B:1841:ALA:HB1	1:B:1848:TYR:CE2	2.52	0.44
1:B:2471:PRO:HG3	1:C:2327:ARG:NE	2.30	0.44
1:C:1841:ALA:HB1	1:C:1848:TYR:CE2	2.52	0.44
1:C:2099:TYR:CE2	1:C:2195:GLN:HG3	2.53	0.44
1:C:2383:THR:HG23	1:D:2403:PRO:HB3	1.99	0.44
1:D:902:TYR:CB	1:D:907:LYS:NZ	2.80	0.44
1:D:1038:VAL:O	1:D:1041:PRO:HD3	2.16	0.44
1:E:1664:TYR:CD2	1:E:1673:SER:HB3	2.52	0.44
1:E:1682:THR:HG22	1:E:1683:ASP:N	2.31	0.44
1:E:1706:LYS:HD2	1:E:1721:TRP:O	2.18	0.44
1:E:1975:SER:OG	1:E:1979:GLN:O	2.33	0.44
1:A:1203:ILE:HG13	1:A:1209:TRP:CZ3	2.51	0.44
1:A:1250:TYR:OH	1:A:1294:PHE:HB2	2.18	0.44
1:A:1662:LYS:O	1:A:1710:THR:N	2.39	0.44
1:A:1806:ILE:HG23	1:E:1242:GLU:CA	2.47	0.44
1:A:2016:LEU:HD21	1:A:2468:LYS:NZ	2.32	0.44
1:A:2085:LEU:HD12	1:A:2213:LEU:HD12	1.99	0.44
1:A:2099:TYR:CE2	1:A:2195:GLN:HG3	2.53	0.44
1:A:2169:ALA:HB3	1:B:2124:LEU:HD22	1.58	0.44
1:C:1044:TYR:CE2	1:D:1992:PRO:HB3	2.52	0.44
1:C:1736:ASN:HB3	1:C:1738:LYS:HZ1	1.82	0.44
1:C:2096:PHE:CE1	1:C:2200:GLU:HB2	2.52	0.44
1:C:2348:ASN:CB	1:C:2370:SER:HB2	2.47	0.44
1:D:1204:ARG:HH21	1:D:1210:ASN:HD21	1.63	0.44
1:D:1723:PRO:HD3	1:D:1744:PHE:CE2	2.52	0.44
1:D:2184:THR:O	1:D:2188:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2282:TRP:CH2	1:D:2440:GLY:HA3	2.52	0.44
1:D:2383:THR:CG2	1:E:2403:PRO:HB3	2.47	0.44
1:E:93:ASN:OD1	1:E:1894:PRO:HB3	2.17	0.44
1:E:902:TYR:CB	1:E:907:LYS:NZ	2.80	0.44
1:E:1783:LEU:HA	1:E:1783:LEU:HD23	1.69	0.44
1:A:902:TYR:CB	1:A:907:LYS:NZ	2.80	0.44
1:A:1040:TYR:CZ	1:A:1953:ASN:HB2	2.52	0.44
1:A:1648:PRO:CD	1:A:1745:GLU:HG3	2.45	0.44
1:A:1806:ILE:HG23	1:E:1242:GLU:HA	1.99	0.44
1:A:2418:THR:HG22	1:A:2420:PRO:HD3	1.99	0.44
1:A:2460:PHE:HB3	1:B:2464:PHE:HE2	1.81	0.44
1:B:93:ASN:OD1	1:B:1894:PRO:HB3	2.17	0.44
1:B:2103:TYR:CD2	1:B:2104:ASP:OD1	2.70	0.44
1:B:2348:ASN:CB	1:B:2370:SER:HB2	2.47	0.44
1:C:1204:ARG:HH21	1:C:1210:ASN:HD21	1.62	0.44
1:C:1250:TYR:OH	1:C:1294:PHE:HB2	2.18	0.44
1:C:2184:THR:O	1:C:2188:ARG:HG2	2.17	0.44
1:C:2304:LEU:HD23	1:C:2304:LEU:HA	1.81	0.44
1:C:2418:THR:HG22	1:C:2420:PRO:HD3	1.99	0.44
1:D:1055:LYS:H	1:D:1143:GLU:CD	2.20	0.44
1:D:2099:TYR:CE2	1:D:2195:GLN:HG3	2.53	0.44
1:D:2385:THR:HG23	1:D:2490:SER:HB3	1.99	0.44
1:E:1203:ILE:HG13	1:E:1209:TRP:CZ3	2.51	0.44
1:A:1740:ILE:O	1:A:1741:LEU:HB2	2.18	0.44
1:A:1841:ALA:HB1	1:A:1848:TYR:CE2	2.52	0.44
1:A:1881:MET:HB3	1:E:995:LEU:CD1	2.47	0.44
1:A:2236:SER:OG	1:B:2059:GLN:NE2	2.50	0.44
1:A:2460:PHE:CB	1:B:2464:PHE:HE2	2.30	0.44
1:B:2099:TYR:CE2	1:B:2195:GLN:HG3	2.52	0.44
1:B:2165:MET:CG	1:C:2124:LEU:HG	2.48	0.44
1:B:2399:ARG:HH21	1:B:2410:ARG:NH1	2.16	0.44
1:C:210:VAL:O	1:C:213:LEU:CB	2.65	0.44
1:C:1002:GLU:CG	1:D:1882:TRP:HH2	2.27	0.44
1:C:1107:LEU:HD23	1:C:1109:TYR:HE1	1.81	0.44
1:C:2202:GLU:O	1:C:2205:GLN:HB3	2.18	0.44
1:D:1706:LYS:HD2	1:D:1721:TRP:O	2.18	0.44
1:D:2085:LEU:HD12	1:D:2213:LEU:HD12	1.99	0.44
1:D:2103:TYR:CD2	1:D:2104:ASP:OD1	2.70	0.44
1:D:2438:LYS:HB2	1:D:2438:LYS:HE3	1.83	0.44
1:D:2460:PHE:CB	1:E:2464:PHE:CE2	3.00	0.44
1:E:1040:TYR:CZ	1:E:1953:ASN:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1060:LEU:O	1:E:1064:VAL:HG12	2.16	0.44
1:E:2184:THR:O	1:E:2188:ARG:HG2	2.17	0.44
1:E:2348:ASN:CB	1:E:2370:SER:HB2	2.47	0.44
1:A:93:ASN:OD1	1:A:1894:PRO:HB3	2.17	0.44
1:A:1706:LYS:HD2	1:A:1721:TRP:O	2.18	0.44
1:A:1841:ALA:O	1:A:1843:HIS:N	2.44	0.44
1:B:999:ARG:HE	1:B:1004:VAL:CG2	2.31	0.44
1:B:1092:LYS:HA	1:B:1594:GLN:NE2	2.24	0.44
1:B:1203:ILE:HG13	1:B:1209:TRP:CZ3	2.51	0.44
1:B:1301:ARG:HA	1:B:1584:LEU:O	2.16	0.44
1:B:1833:ASP:OD1	1:B:1834:SER:N	2.49	0.44
1:B:2071:GLN:O	1:B:2074:THR:HG22	2.17	0.44
1:C:969:GLN:HB3	1:C:999:ARG:HH12	1.83	0.44
1:C:1723:PRO:HD3	1:C:1744:PHE:CE2	2.52	0.44
1:C:2103:TYR:CD2	1:C:2104:ASP:OD1	2.70	0.44
1:C:2222:LEU:HD11	1:D:2073:LYS:HE3	1.98	0.44
1:C:2399:ARG:HH21	1:C:2410:ARG:NH1	2.16	0.44
1:D:969:GLN:HB3	1:D:999:ARG:HH12	1.83	0.44
1:D:2096:PHE:CE1	1:D:2200:GLU:HB2	2.52	0.44
1:D:2202:GLU:O	1:D:2205:GLN:HB3	2.18	0.44
1:E:159:LEU:HD12	1:E:164:LEU:HD21	2.00	0.44
1:E:2103:TYR:O	1:E:2104:ASP:HB2	2.18	0.44
1:E:2154:TRP:O	1:E:2158:ALA:HB3	2.16	0.44
1:E:2202:GLU:O	1:E:2205:GLN:HB3	2.18	0.44
1:A:159:LEU:HD12	1:A:164:LEU:HD21	2.00	0.44
1:A:969:GLN:HB3	1:A:999:ARG:HH12	1.83	0.44
1:A:2312:LEU:HD21	1:E:2264:GLN:OE1	2.17	0.44
1:A:2348:ASN:CB	1:A:2370:SER:HB2	2.47	0.44
1:A:2500:MET:HG3	1:A:2501:LEU:N	2.32	0.44
1:B:159:LEU:HD12	1:B:164:LEU:HD21	2.00	0.44
1:B:1897:PRO:O	1:B:1899:SER:OG	2.26	0.44
1:B:1974:LEU:O	1:B:1975:SER:OG	2.32	0.44
1:B:2169:ALA:CB	1:C:2124:LEU:CG	2.38	0.44
1:C:1092:LYS:HA	1:C:1594:GLN:NE2	2.24	0.44
1:C:1664:TYR:CD2	1:C:1673:SER:HB3	2.52	0.44
1:C:1963:LEU:HD23	1:C:1963:LEU:HA	1.79	0.44
1:C:2312:LEU:HD12	1:C:2312:LEU:HA	1.74	0.44
1:D:210:VAL:O	1:D:213:LEU:CB	2.65	0.44
1:D:1967:VAL:O	1:D:1970:LEU:N	2.49	0.44
1:D:2016:LEU:HD21	1:D:2468:LYS:NZ	2.32	0.44
1:D:2016:LEU:HD11	1:E:2327:ARG:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2425:PRO:HA	1:D:2426:TYR:HA	1.56	0.44
1:E:1760:PHE:CD2	1:E:1820:PRO:CG	3.00	0.44
1:E:2096:PHE:CE1	1:E:2200:GLU:HB2	2.52	0.44
1:A:977:VAL:HG12	1:A:978:SER:O	2.18	0.44
1:A:2103:TYR:O	1:A:2104:ASP:HB2	2.18	0.44
1:A:2124:LEU:HG	1:E:2165:MET:HG3	1.99	0.44
1:A:2385:THR:HG23	1:A:2490:SER:HB3	1.99	0.44
1:A:2464:PHE:HE2	1:E:2460:PHE:CB	2.31	0.44
1:A:2464:PHE:HE2	1:E:2460:PHE:HB3	1.83	0.44
1:B:129:LEU:HA	1:B:129:LEU:HD23	1.84	0.44
1:B:981:ILE:HD12	1:C:1973:ASN:HB2	2.00	0.44
1:B:1598:TRP:CG	1:B:1599:GLN:N	2.86	0.44
1:B:1735:ILE:HD11	1:B:1741:LEU:HD11	1.98	0.44
1:B:2385:THR:HG23	1:B:2490:SER:HB3	1.99	0.44
1:B:2460:PHE:CB	1:C:2464:PHE:HE2	2.30	0.44
1:C:159:LEU:O	1:C:983:THR:N	2.43	0.44
1:C:2282:TRP:CH2	1:C:2440:GLY:HA3	2.52	0.44
1:C:2377:PHE:HE1	1:C:2387:LEU:HB2	1.81	0.44
1:D:93:ASN:OD1	1:D:1894:PRO:HB3	2.17	0.44
1:D:977:VAL:HG12	1:D:978:SER:O	2.18	0.44
1:D:1868:TYR:CD2	1:D:1976:ILE:HD13	2.53	0.44
1:D:1966:ARG:O	1:D:1970:LEU:HD12	2.18	0.44
1:D:2418:THR:HG22	1:D:2420:PRO:HD3	1.99	0.44
1:E:159:LEU:O	1:E:983:THR:N	2.43	0.44
1:E:1103:ASN:ND2	1:E:1598:TRP:CE2	2.82	0.44
1:E:1740:ILE:O	1:E:1741:LEU:HB2	2.18	0.44
1:E:1827:TRP:NE1	1:E:1846:MET:HE2	2.33	0.44
1:E:1966:ARG:O	1:E:1970:LEU:HD12	2.18	0.44
1:E:2103:TYR:CD2	1:E:2104:ASP:OD1	2.70	0.44
1:B:155:MET:O	1:B:155:MET:HG2	2.18	0.44
1:B:969:GLN:HB3	1:B:999:ARG:HH12	1.83	0.44
1:B:1204:ARG:NH2	1:B:1210:ASN:OD1	2.42	0.44
1:B:1723:PRO:HD3	1:B:1744:PHE:CE2	2.52	0.44
1:B:1859:LEU:HD12	1:B:1859:LEU:HA	1.71	0.44
1:B:1966:ARG:O	1:B:1970:LEU:HD12	2.18	0.44
1:B:2103:TYR:O	1:B:2104:ASP:HB2	2.18	0.44
1:B:2187:ARG:NH1	1:C:2108:ASN:OD1	2.50	0.44
1:C:977:VAL:HG12	1:C:978:SER:O	2.18	0.44
1:D:159:LEU:HD12	1:D:164:LEU:HD21	2.00	0.44
1:D:2399:ARG:HH21	1:D:2410:ARG:NH1	2.16	0.44
1:D:2500:MET:HG3	1:D:2501:LEU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:969:GLN:HB3	1:E:999:ARG:HH12	1.83	0.44
1:E:977:VAL:HG12	1:E:978:SER:O	2.18	0.44
1:E:1250:TYR:OH	1:E:1294:PHE:HB2	2.18	0.44
1:E:1598:TRP:CG	1:E:1599:GLN:N	2.86	0.44
1:E:1648:PRO:CD	1:E:1745:GLU:HG3	2.45	0.44
1:E:2099:TYR:CE2	1:E:2195:GLN:HG3	2.53	0.44
1:A:1057:MET:HE2	1:A:1770:GLU:HB3	2.00	0.44
1:A:2264:GLN:OE1	1:B:2312:LEU:HD21	2.18	0.44
1:A:2301:TYR:CD2	1:E:2253:TRP:CE2	3.05	0.44
1:B:1004:VAL:HG23	1:B:1005:GLU:HG3	2.00	0.44
1:B:2304:LEU:HD23	1:B:2304:LEU:HA	1.81	0.44
1:B:2418:THR:HG22	1:B:2420:PRO:HD3	1.99	0.44
1:C:159:LEU:HD12	1:C:164:LEU:HD21	2.00	0.44
1:C:1951:GLN:HG3	1:C:1952:ILE:N	2.33	0.44
1:C:1966:ARG:O	1:C:1970:LEU:HD12	2.18	0.44
1:C:2016:LEU:HD11	1:D:2327:ARG:HB2	2.00	0.44
1:D:155:MET:O	1:D:155:MET:HG2	2.18	0.44
1:D:182:TYR:O	1:D:185:VAL:N	2.50	0.44
1:D:999:ARG:HE	1:D:1004:VAL:CG2	2.31	0.44
1:D:1204:ARG:NH2	1:D:1210:ASN:ND2	2.65	0.44
1:D:1841:ALA:O	1:D:1843:HIS:N	2.44	0.44
1:D:2103:TYR:O	1:D:2104:ASP:HB2	2.18	0.44
1:E:2282:TRP:CH2	1:E:2440:GLY:HA3	2.52	0.44
1:A:2202:GLU:O	1:A:2205:GLN:HB3	2.18	0.43
1:A:2301:TYR:CE2	1:E:2253:TRP:NE1	2.86	0.43
1:B:1250:TYR:OH	1:B:1294:PHE:HB2	2.18	0.43
1:B:2253:TRP:CE2	1:C:2301:TYR:CD2	3.06	0.43
1:B:2500:MET:HG3	1:B:2501:LEU:N	2.33	0.43
1:C:1300:ARG:O	1:C:1585:THR:HA	2.18	0.43
1:C:1597:GLN:HG3	1:C:1601:TYR:O	2.18	0.43
1:D:984:THR:HG22	1:D:985:ARG:N	2.33	0.43
1:D:1597:GLN:HG3	1:D:1601:TYR:O	2.18	0.43
1:D:2201:ALA:CB	1:E:2091:GLY:CA	2.96	0.43
1:D:2360:LEU:HD22	1:D:2375:LEU:CD2	2.47	0.43
1:E:999:ARG:HE	1:E:1004:VAL:CG2	2.31	0.43
1:E:1300:ARG:O	1:E:1585:THR:HA	2.18	0.43
1:E:2018:ARG:HG2	1:E:2467:GLY:C	2.38	0.43
1:E:2385:THR:HG23	1:E:2490:SER:HB3	1.99	0.43
1:A:974:ASP:CB	1:A:977:VAL:HG23	2.47	0.43
1:A:1081:TYR:HD2	1:A:1771:LEU:HD12	1.81	0.43
1:A:1103:ASN:ND2	1:A:1598:TRP:CG	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1706:LYS:CG	1:A:1722:GLY:HA3	2.49	0.43
1:A:1723:PRO:HD3	1:A:1744:PHE:CE2	2.52	0.43
1:A:1966:ARG:O	1:A:1970:LEU:HD12	2.18	0.43
1:A:1975:SER:OG	1:A:1979:GLN:O	2.33	0.43
1:A:2018:ARG:HG2	1:A:2467:GLY:C	2.38	0.43
1:A:2460:PHE:CB	1:B:2464:PHE:CE2	3.02	0.43
1:B:1002:GLU:OE1	1:C:1885:GLN:OE1	2.35	0.43
1:B:2018:ARG:HG2	1:B:2467:GLY:C	2.38	0.43
1:C:1057:MET:HE2	1:C:1770:GLU:HB3	2.00	0.43
1:C:2172:MET:CE	1:D:2120:SER:C	2.83	0.43
1:D:2183:GLU:CG	1:E:2111:GLU:HG2	2.39	0.43
1:E:2399:ARG:HH21	1:E:2410:ARG:NH1	2.16	0.43
1:A:160:SER:HA	1:A:982:LYS:HD3	2.01	0.43
1:A:2294:PRO:HA	1:A:2295:GLY:HA2	1.74	0.43
1:B:984:THR:HG22	1:B:985:ARG:N	2.33	0.43
1:B:1740:ILE:O	1:B:1741:LEU:HB2	2.18	0.43
1:B:2201:ALA:CB	1:C:2091:GLY:HA3	2.47	0.43
1:B:2264:GLN:OE1	1:C:2312:LEU:HD21	2.19	0.43
1:C:150:LEU:HD23	1:C:150:LEU:HA	1.68	0.43
1:C:1868:TYR:CD2	1:C:1976:ILE:HD13	2.53	0.43
1:D:1706:LYS:CG	1:D:1722:GLY:HA3	2.49	0.43
1:D:2018:ARG:HG2	1:D:2467:GLY:C	2.38	0.43
1:D:2404:ALA:O	1:D:2406:LEU:N	2.51	0.43
1:E:2500:MET:HG3	1:E:2501:LEU:N	2.32	0.43
1:A:2399:ARG:HH21	1:A:2410:ARG:NH1	2.16	0.43
1:B:1055:LYS:HG3	1:B:1143:GLU:OE2	2.19	0.43
1:C:984:THR:HG22	1:C:985:ARG:N	2.33	0.43
1:C:2404:ALA:O	1:C:2406:LEU:N	2.51	0.43
1:E:160:SER:HA	1:E:982:LYS:HD2	1.99	0.43
1:A:1300:ARG:O	1:A:1585:THR:HA	2.18	0.43
1:A:2013:PHE:HB3	1:A:2014:MET:H	1.51	0.43
1:B:965:ASP:O	1:B:968:TYR:N	2.52	0.43
1:C:1055:LYS:HG3	1:C:1143:GLU:OE2	2.19	0.43
1:C:1775:THR:OG1	1:C:1776:PRO:HD3	2.19	0.43
1:C:2264:GLN:OE1	1:D:2312:LEU:HD21	2.18	0.43
1:E:160:SER:HA	1:E:982:LYS:HD3	2.01	0.43
1:E:965:ASP:O	1:E:968:TYR:N	2.52	0.43
1:E:984:THR:HG22	1:E:985:ARG:N	2.33	0.43
1:E:1597:GLN:HG3	1:E:1601:TYR:O	2.18	0.43
1:A:1055:LYS:HG3	1:A:1143:GLU:OE2	2.19	0.43
1:A:1598:TRP:CG	1:A:1599:GLN:N	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1775:THR:OG1	1:A:1776:PRO:HD3	2.19	0.43
1:A:1827:TRP:NE1	1:A:1846:MET:HE2	2.34	0.43
1:B:160:SER:HA	1:B:982:LYS:HD3	2.01	0.43
1:B:1597:GLN:HG3	1:B:1601:TYR:O	2.18	0.43
1:B:1706:LYS:HD2	1:B:1721:TRP:O	2.18	0.43
1:B:1868:TYR:CD2	1:B:1976:ILE:HD13	2.53	0.43
1:B:1951:GLN:HG3	1:B:1952:ILE:N	2.33	0.43
1:B:1975:SER:OG	1:B:1979:GLN:O	2.33	0.43
1:C:999:ARG:HE	1:C:1004:VAL:CG2	2.31	0.43
1:C:1097:TYR:HD2	1:C:1162:ILE:HD12	1.83	0.43
1:C:2018:ARG:HG2	1:C:2467:GLY:C	2.38	0.43
1:D:965:ASP:O	1:D:968:TYR:N	2.52	0.43
1:D:1250:TYR:OH	1:D:1294:PHE:HB2	2.18	0.43
1:D:2194:ILE:HG21	1:E:2099:TYR:HH	1.77	0.43
1:D:2222:LEU:HD11	1:E:2073:LYS:HE3	2.00	0.43
1:E:161:THR:O	1:E:162:LEU:HB3	2.18	0.43
1:E:1097:TYR:HD2	1:E:1162:ILE:HD12	1.83	0.43
1:E:1132:ASN:HB2	1:E:1832:LEU:HD12	2.01	0.43
1:E:1750:LEU:HD23	1:E:1750:LEU:HA	1.84	0.43
1:E:2515:ILE:HG22	1:E:2516:LYS:OXT	2.18	0.43
1:A:155:MET:O	1:A:155:MET:HG2	2.18	0.43
1:A:984:THR:HG22	1:A:985:ARG:N	2.33	0.43
1:A:1215:PHE:CD1	1:A:1275:SER:HB3	2.54	0.43
1:A:1242:GLU:CA	1:B:1806:ILE:HG23	2.49	0.43
1:A:2014:MET:HE3	1:A:2014:MET:HB2	1.98	0.43
1:A:2188:ARG:O	1:A:2192:TRP:HD1	2.02	0.43
1:A:2446:GLU:OE1	1:A:2471:PRO:HA	2.19	0.43
1:B:1215:PHE:CD1	1:B:1275:SER:HB3	2.54	0.43
1:B:1783:LEU:HA	1:B:1783:LEU:HD23	1.69	0.43
1:B:2412:ILE:HD12	1:B:2475:ILE:HB	2.01	0.43
1:B:2515:ILE:HG22	1:B:2516:LYS:OXT	2.18	0.43
1:C:155:MET:HG2	1:C:155:MET:O	2.18	0.43
1:C:1706:LYS:HD2	1:C:1721:TRP:O	2.18	0.43
1:D:1215:PHE:CD1	1:D:1275:SER:HB3	2.54	0.43
1:D:1300:ARG:O	1:D:1585:THR:HA	2.18	0.43
1:D:2103:TYR:HB2	1:D:2196:ARG:HH11	1.81	0.43
1:D:2515:ILE:HG22	1:D:2516:LYS:OXT	2.18	0.43
1:E:2085:LEU:HD12	1:E:2213:LEU:HD12	1.99	0.43
1:E:2294:PRO:HA	1:E:2295:GLY:HA2	1.74	0.43
1:E:2441:LEU:HD13	1:E:2446:GLU:HG3	2.01	0.43
1:A:1004:VAL:HG23	1:A:1005:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1868:TYR:CD2	1:A:1976:ILE:HD13	2.53	0.43
1:A:1992:PRO:HB3	1:E:1044:TYR:CE2	2.54	0.43
1:A:2091:GLY:HA3	1:E:2201:ALA:CB	2.49	0.43
1:A:2222:LEU:HD11	1:B:2073:LYS:HE3	1.99	0.43
1:A:2441:LEU:HD13	1:A:2446:GLU:HG3	2.01	0.43
1:B:1706:LYS:CG	1:B:1722:GLY:HA3	2.49	0.43
1:B:2188:ARG:O	1:B:2192:TRP:HD1	2.02	0.43
1:B:2404:ALA:O	1:B:2406:LEU:N	2.51	0.43
1:C:160:SER:HA	1:C:982:LYS:HD3	2.01	0.43
1:C:995:LEU:CD1	1:D:1881:MET:HB3	2.48	0.43
1:C:1004:VAL:HG23	1:C:1005:GLU:HG3	2.00	0.43
1:C:1215:PHE:CD1	1:C:1275:SER:HB3	2.54	0.43
1:C:2169:ALA:CB	1:D:2124:LEU:CG	2.37	0.43
1:C:2201:ALA:CB	1:D:2091:GLY:CA	2.97	0.43
1:C:2201:ALA:CB	1:D:2091:GLY:HA3	2.48	0.43
1:C:2515:ILE:HG22	1:C:2516:LYS:OXT	2.18	0.43
1:D:1132:ASN:HB2	1:D:1832:LEU:HD12	2.01	0.43
1:D:1598:TRP:CG	1:D:1599:GLN:N	2.86	0.43
1:D:2179:ILE:HG21	1:E:2114:ALA:CA	2.49	0.43
1:E:1204:ARG:HH21	1:E:1210:ASN:HD21	1.63	0.43
1:E:1775:THR:OG1	1:E:1776:PRO:HD3	2.19	0.43
1:E:2103:TYR:HB2	1:E:2196:ARG:HH11	1.81	0.43
1:A:214:GLN:O	1:A:215:ASP:C	2.54	0.43
1:A:1044:TYR:CE2	1:B:1992:PRO:HB3	2.54	0.43
1:A:1868:TYR:CE1	1:A:1970:LEU:HG	2.47	0.43
1:A:2111:GLU:HG2	1:E:2183:GLU:CG	2.42	0.43
1:A:2120:SER:C	1:E:2172:MET:CE	2.86	0.43
1:A:2471:PRO:CG	1:B:2327:ARG:HE	2.28	0.43
1:B:974:ASP:CB	1:B:977:VAL:HG23	2.47	0.43
1:B:1242:GLU:HA	1:C:1806:ILE:HG23	2.00	0.43
1:B:2446:GLU:OE1	1:B:2471:PRO:HA	2.19	0.43
1:C:214:GLN:O	1:C:215:ASP:C	2.54	0.43
1:C:2103:TYR:O	1:C:2104:ASP:HB2	2.18	0.43
1:C:2222:LEU:HA	1:C:2222:LEU:HD23	1.79	0.43
1:D:1044:TYR:OH	1:E:1992:PRO:CG	2.64	0.43
1:D:1081:TYR:HD2	1:D:1771:LEU:HD12	1.81	0.43
1:D:1952:ILE:O	1:D:1953:ASN:HB3	2.19	0.43
1:E:1124:ARG:NH2	1:E:1763:ALA:O	2.52	0.43
1:E:1706:LYS:CG	1:E:1722:GLY:HA3	2.49	0.43
1:E:1841:ALA:C	1:E:1843:HIS:H	2.22	0.43
1:E:1868:TYR:CD2	1:E:1976:ILE:HD13	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1967:VAL:O	1:E:1970:LEU:N	2.49	0.43
1:A:159:LEU:O	1:A:983:THR:N	2.43	0.43
1:A:2266:TYR:CE2	1:A:2297:TRP:HB2	2.54	0.43
1:B:1760:PHE:CD2	1:B:1820:PRO:CG	3.00	0.43
1:B:1841:ALA:C	1:B:1843:HIS:H	2.22	0.43
1:C:2236:SER:OG	1:D:2059:GLN:NE2	2.52	0.43
1:C:2385:THR:HG23	1:C:2490:SER:HB3	1.99	0.43
1:D:1648:PRO:CD	1:D:1745:GLU:HG3	2.45	0.43
1:D:2446:GLU:OE1	1:D:2471:PRO:HA	2.19	0.43
1:E:1055:LYS:HG3	1:E:1143:GLU:OE2	2.19	0.43
1:E:2266:TYR:CE2	1:E:2297:TRP:HB2	2.54	0.43
1:A:1124:ARG:NH2	1:A:1763:ALA:O	2.52	0.42
1:A:1132:ASN:HB2	1:A:1832:LEU:HD12	2.01	0.42
1:A:2464:PHE:CE2	1:E:2460:PHE:CB	3.02	0.42
1:B:1819:ARG:HG2	1:B:1823:GLU:OE1	2.19	0.42
1:B:1881:MET:HG3	1:B:1882:TRP:N	2.34	0.42
1:B:2202:GLU:O	1:B:2205:GLN:HB3	2.18	0.42
1:C:1124:ARG:NH2	1:C:1763:ALA:O	2.52	0.42
1:C:1204:ARG:O	1:C:1207:GLY:N	2.33	0.42
1:C:1642:TYR:CZ	1:C:1689:THR:OG1	2.72	0.42
1:C:1651:ASN:O	1:C:1653:SER:N	2.52	0.42
1:C:2169:ALA:HB3	1:D:2124:LEU:HD22	1.61	0.42
1:C:2412:ILE:HD12	1:C:2475:ILE:HB	2.01	0.42
1:D:160:SER:HA	1:D:982:LYS:HD3	2.01	0.42
1:D:1287:ARG:O	1:D:1290:SER:N	2.52	0.42
1:D:1740:ILE:O	1:D:1741:LEU:HB2	2.18	0.42
1:D:1976:ILE:HD12	1:D:1976:ILE:HA	1.91	0.42
1:E:155:MET:HG2	1:E:155:MET:O	2.18	0.42
1:E:1204:ARG:NH2	1:E:1210:ASN:ND2	2.65	0.42
1:E:1287:ARG:O	1:E:1290:SER:N	2.52	0.42
1:E:1952:ILE:O	1:E:1953:ASN:HB3	2.19	0.42
1:E:2220:ALA:O	1:E:2223:GLN:HB3	2.19	0.42
1:A:111:SER:HB3	1:A:114:SER:HB3	2.01	0.42
1:A:965:ASP:O	1:A:968:TYR:N	2.52	0.42
1:A:999:ARG:HE	1:A:1004:VAL:CG2	2.31	0.42
1:A:1097:TYR:HD2	1:A:1162:ILE:HD12	1.83	0.42
1:A:1597:GLN:HG3	1:A:1601:TYR:O	2.18	0.42
1:A:1859:LEU:HA	1:A:1859:LEU:HD12	1.71	0.42
1:A:2404:ALA:O	1:A:2406:LEU:N	2.51	0.42
1:B:977:VAL:HG12	1:B:978:SER:O	2.18	0.42
1:B:1775:THR:OG1	1:B:1776:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1777:MET:HE1	1:B:1852:THR:HG23	2.01	0.42
1:B:2253:TRP:NE1	1:C:2301:TYR:CE2	2.87	0.42
1:B:2438:LYS:HE3	1:B:2438:LYS:HB2	1.83	0.42
1:B:2441:LEU:HD13	1:B:2446:GLU:HG3	2.01	0.42
1:C:2176:ALA:HA	1:D:2117:LEU:HD13	1.93	0.42
1:C:2188:ARG:O	1:C:2192:TRP:HD1	2.02	0.42
1:C:2220:ALA:O	1:C:2223:GLN:HB3	2.19	0.42
1:C:2253:TRP:NE1	1:D:2301:TYR:HE2	2.17	0.42
1:D:1124:ARG:NH2	1:D:1763:ALA:O	2.52	0.42
1:D:1651:ASN:O	1:D:1653:SER:N	2.52	0.42
1:D:1750:LEU:HD23	1:D:1750:LEU:HA	1.84	0.42
1:D:2272:ARG:HH22	1:E:2318:GLU:CB	2.32	0.42
1:E:111:SER:HB3	1:E:114:SER:HB3	2.01	0.42
1:A:161:THR:O	1:A:162:LEU:HB3	2.18	0.42
1:A:1044:TYR:CE1	1:B:1992:PRO:HB2	2.54	0.42
1:A:1642:TYR:CZ	1:A:1689:THR:OG1	2.72	0.42
1:A:1808:HIS:CE1	1:E:1269:ILE:C	2.89	0.42
1:A:1841:ALA:C	1:A:1843:HIS:H	2.22	0.42
1:A:1951:GLN:HG3	1:A:1952:ILE:N	2.33	0.42
1:B:1300:ARG:O	1:B:1585:THR:HA	2.18	0.42
1:B:1651:ASN:O	1:B:1653:SER:N	2.52	0.42
1:B:1662:LYS:O	1:B:1710:THR:N	2.39	0.42
1:B:2201:ALA:CB	1:C:2091:GLY:CA	2.97	0.42
1:B:2222:LEU:HD11	1:C:2073:LYS:HE3	2.01	0.42
1:C:161:THR:O	1:C:162:LEU:HB3	2.18	0.42
1:C:1706:LYS:CG	1:C:1722:GLY:HA3	2.49	0.42
1:C:2390:SER:HA	1:C:2483:THR:HA	2.02	0.42
1:D:1666:LYS:HD2	1:D:1708:TYR:CE1	2.55	0.42
1:D:1760:PHE:CD2	1:D:1820:PRO:CG	3.00	0.42
1:D:1775:THR:OG1	1:D:1776:PRO:HD3	2.19	0.42
1:D:2281:ARG:HD3	1:D:2289:ALA:O	2.19	0.42
1:A:160:SER:HA	1:A:982:LYS:HA	2.02	0.42
1:A:1992:PRO:HB2	1:E:1044:TYR:CE1	2.54	0.42
1:A:2111:GLU:CD	1:E:2183:GLU:OE2	2.55	0.42
1:A:2359:LYS:O	1:A:2363:GLN:HG2	2.20	0.42
1:B:1044:TYR:CE1	1:C:1992:PRO:HB2	2.55	0.42
1:B:1046:ASP:HB2	1:B:1049:MET:HG2	2.02	0.42
1:B:1124:ARG:NH2	1:B:1763:ALA:O	2.52	0.42
1:B:1204:ARG:HH21	1:B:1210:ASN:HD21	1.63	0.42
1:B:1242:GLU:CA	1:C:1806:ILE:HG23	2.49	0.42
1:B:2172:MET:HE1	1:C:2121:ALA:CA	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2216:ARG:CA	1:C:2077:GLU:OE1	2.62	0.42
1:C:160:SER:HA	1:C:982:LYS:HD2	1.99	0.42
1:C:965:ASP:O	1:C:968:TYR:N	2.52	0.42
1:C:1598:TRP:CG	1:C:1599:GLN:N	2.86	0.42
1:C:1819:ARG:HG2	1:C:1823:GLU:OE1	2.20	0.42
1:C:2103:TYR:HB2	1:C:2196:ARG:HH11	1.81	0.42
1:D:161:THR:O	1:D:162:LEU:HB3	2.18	0.42
1:D:1830:ASP:HA	1:D:1831:PRO:HD2	1.83	0.42
1:E:94:ASN:N	1:E:94:ASN:HD22	2.18	0.42
1:E:1204:ARG:O	1:E:1207:GLY:N	2.33	0.42
1:E:2446:GLU:OE1	1:E:2471:PRO:HA	2.19	0.42
1:A:103:TYR:CD1	1:A:1950:PRO:HG2	2.54	0.42
1:A:2165:MET:HG3	1:B:2124:LEU:HG	2.02	0.42
1:A:2179:ILE:HG21	1:B:2114:ALA:CA	2.49	0.42
1:A:2515:ILE:HG22	1:A:2516:LYS:OXT	2.18	0.42
1:B:100:ALA:CB	1:B:1950:PRO:HG3	2.44	0.42
1:B:2370:SER:O	1:B:2374:ASN:HB3	2.20	0.42
1:C:2281:ARG:HD3	1:C:2289:ALA:O	2.19	0.42
1:D:929:GLN:O	1:D:932:ASN:HB2	2.20	0.42
1:D:1046:ASP:HB2	1:D:1049:MET:HG2	2.02	0.42
1:D:1642:TYR:CZ	1:D:1689:THR:OG1	2.72	0.42
1:D:1881:MET:HG3	1:D:1882:TRP:N	2.34	0.42
1:D:2220:ALA:O	1:D:2223:GLN:HB3	2.19	0.42
1:D:2370:SER:O	1:D:2374:ASN:HB3	2.20	0.42
1:E:1004:VAL:HG23	1:E:1005:GLU:HG3	2.00	0.42
1:E:1016:GLN:OE1	1:E:1019:ILE:HB	2.20	0.42
1:E:1165:SER:O	1:E:1165:SER:OG	2.35	0.42
1:E:1805:TYR:HD2	1:E:1814:TYR:CE2	2.37	0.42
1:A:94:ASN:HD22	1:A:94:ASN:N	2.18	0.42
1:A:1016:GLN:OE1	1:A:1019:ILE:HB	2.20	0.42
1:A:1651:ASN:O	1:A:1653:SER:N	2.52	0.42
1:A:2438:LYS:HB2	1:A:2438:LYS:HE3	1.83	0.42
1:B:160:SER:HA	1:B:982:LYS:HA	2.02	0.42
1:B:1665:ILE:CG2	1:B:1674:HIS:HD2	2.32	0.42
1:B:1750:LEU:HD23	1:B:1750:LEU:HA	1.84	0.42
1:B:1805:TYR:HD2	1:B:1814:TYR:CE2	2.37	0.42
1:B:2266:TYR:CE2	1:B:2297:TRP:HB2	2.54	0.42
1:C:1740:ILE:O	1:C:1741:LEU:HB2	2.18	0.42
1:C:1952:ILE:O	1:C:1953:ASN:HB3	2.19	0.42
1:C:2272:ARG:HH22	1:D:2318:GLU:CB	2.32	0.42
1:C:2446:GLU:OE1	1:C:2471:PRO:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1004:VAL:HG23	1:D:1005:GLU:HG3	2.00	0.42
1:D:1204:ARG:O	1:D:1207:GLY:N	2.33	0.42
1:E:129:LEU:HA	1:E:129:LEU:HD23	1.83	0.42
1:E:1642:TYR:CZ	1:E:1689:THR:OG1	2.72	0.42
1:E:2281:ARG:HD3	1:E:2289:ALA:O	2.19	0.42
1:A:929:GLN:O	1:A:932:ASN:HB2	2.20	0.42
1:A:1805:TYR:HD2	1:A:1814:TYR:CE2	2.37	0.42
1:A:1819:ARG:HG2	1:A:1823:GLU:OE1	2.20	0.42
1:A:1974:LEU:O	1:A:1975:SER:OG	2.32	0.42
1:A:1989:PRO:HA	1:E:1029:SER:O	2.20	0.42
1:A:2281:ARG:HD3	1:A:2289:ALA:O	2.19	0.42
1:A:2323:LYS:HG2	1:E:2013:PHE:CE1	2.51	0.42
1:A:2403:PRO:HB3	1:E:2383:THR:HG23	2.02	0.42
1:A:2412:ILE:HD12	1:A:2475:ILE:HB	2.01	0.42
1:B:160:SER:HG	1:B:982:LYS:CE	2.03	0.42
1:B:900:LEU:HA	1:B:908:GLU:HB3	2.02	0.42
1:B:1287:ARG:O	1:B:1290:SER:N	2.52	0.42
1:B:1827:TRP:NE1	1:B:1846:MET:HE2	2.34	0.42
1:B:1952:ILE:O	1:B:1953:ASN:HB3	2.19	0.42
1:B:2281:ARG:HD3	1:B:2289:ALA:O	2.19	0.42
1:C:93:ASN:O	1:C:97:SER:HB3	2.19	0.42
1:C:111:SER:HB3	1:C:114:SER:HB3	2.01	0.42
1:C:1132:ASN:HB2	1:C:1832:LEU:HD12	2.01	0.42
1:C:1287:ARG:O	1:C:1290:SER:N	2.52	0.42
1:C:1881:MET:HG3	1:C:1882:TRP:N	2.34	0.42
1:C:2266:TYR:CE2	1:C:2297:TRP:HB2	2.54	0.42
1:D:93:ASN:O	1:D:97:SER:HB3	2.19	0.42
1:D:1082:LEU:HA	1:D:1082:LEU:HD23	1.74	0.42
1:D:1196:TYR:N	1:D:1218:ASN:OD1	2.41	0.42
1:D:1841:ALA:C	1:D:1843:HIS:H	2.22	0.42
1:D:2195:GLN:O	1:D:2198:ASN:HB3	2.20	0.42
1:D:2281:ARG:HD2	1:D:2287:ASP:HA	2.02	0.42
1:E:100:ALA:CB	1:E:1950:PRO:HG3	2.44	0.42
1:E:1830:ASP:OD1	1:E:1830:ASP:N	2.42	0.42
1:E:1881:MET:HG3	1:E:1882:TRP:N	2.34	0.42
1:E:2188:ARG:O	1:E:2192:TRP:HD1	2.02	0.42
1:E:2370:SER:O	1:E:2374:ASN:HB3	2.20	0.42
1:A:141:ARG:NH2	1:A:1005:GLU:OE2	2.38	0.42
1:A:160:SER:N	1:A:982:LYS:HD2	2.35	0.42
1:A:1046:ASP:HB2	1:A:1049:MET:HG2	2.02	0.42
1:A:1109:TYR:CE2	1:A:1162:ILE:HD11	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1758:MET:HG3	1:A:1760:PHE:HE1	1.85	0.42
1:B:1642:TYR:CZ	1:B:1689:THR:OG1	2.72	0.42
1:B:1726:VAL:HG22	1:B:1734:THR:O	2.20	0.42
1:B:1758:MET:HG3	1:B:1760:PHE:HE1	1.85	0.42
1:B:1858:ASP:O	1:B:1862:ALA:CB	2.68	0.42
1:B:2195:GLN:O	1:B:2198:ASN:HB3	2.20	0.42
1:C:1046:ASP:HB2	1:C:1049:MET:HG2	2.02	0.42
1:C:2441:LEU:HD13	1:C:2446:GLU:HG3	2.01	0.42
1:D:1016:GLN:OE1	1:D:1019:ILE:HB	2.20	0.42
1:D:1053:GLN:NE2	1:D:1058:ASP:OD1	2.53	0.42
1:D:1055:LYS:HG3	1:D:1143:GLU:OE2	2.19	0.42
1:D:1736:ASN:HB3	1:D:1738:LYS:HZ1	1.84	0.42
1:D:2039:THR:HG23	1:D:2258:LEU:HD21	2.02	0.42
1:D:2172:MET:HE1	1:E:2120:SER:C	2.40	0.42
1:E:160:SER:HA	1:E:982:LYS:HA	2.02	0.42
1:E:160:SER:N	1:E:982:LYS:HD2	2.35	0.42
1:E:182:TYR:O	1:E:185:VAL:N	2.50	0.42
1:E:1082:LEU:HD23	1:E:1082:LEU:HA	1.74	0.42
1:E:1198:LEU:HD11	1:E:1215:PHE:HD2	1.85	0.42
1:E:2122:ALA:O	1:E:2125:THR:OG1	2.26	0.42
1:E:2359:LYS:O	1:E:2363:GLN:HG2	2.20	0.42
1:A:1750:LEU:HD23	1:A:1750:LEU:HA	1.84	0.42
1:A:2059:GLN:NE2	1:E:2236:SER:OG	2.53	0.42
1:A:2220:ALA:O	1:A:2223:GLN:HB3	2.19	0.42
1:B:1648:PRO:CD	1:B:1745:GLU:HG3	2.45	0.42
1:B:2471:PRO:CG	1:C:2327:ARG:HE	2.30	0.42
1:C:900:LEU:HA	1:C:908:GLU:HB3	2.02	0.42
1:C:1805:TYR:HD2	1:C:1814:TYR:CE2	2.37	0.42
1:C:2023:LEU:HD21	1:C:2318:GLU:HB2	2.01	0.42
1:C:2079:ASP:O	1:C:2082:LYS:HB3	2.20	0.42
1:C:2179:ILE:HG21	1:D:2114:ALA:CA	2.50	0.42
1:D:900:LEU:HA	1:D:908:GLU:HB3	2.02	0.42
1:D:1610:ALA:O	1:D:1614:VAL:HG23	2.20	0.42
1:D:1868:TYR:CE1	1:D:1970:LEU:HG	2.47	0.42
1:D:2023:LEU:HD21	1:D:2318:GLU:HB2	2.01	0.42
1:D:2165:MET:CG	1:E:2124:LEU:HG	2.49	0.42
1:D:2188:ARG:O	1:D:2192:TRP:CD1	2.73	0.42
1:D:2266:TYR:CE2	1:D:2297:TRP:HB2	2.54	0.42
1:E:900:LEU:HA	1:E:908:GLU:HB3	2.02	0.42
1:E:1030:THR:O	1:E:1033:GLY:N	2.53	0.42
1:E:1215:PHE:CD1	1:E:1275:SER:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1282:GLN:O	1:E:1285:VAL:HG12	2.20	0.42
1:E:1651:ASN:O	1:E:1653:SER:N	2.52	0.42
1:E:1819:ARG:HG2	1:E:1823:GLU:OE1	2.19	0.42
1:E:2188:ARG:O	1:E:2192:TRP:CD1	2.73	0.42
1:E:2222:LEU:HA	1:E:2222:LEU:HD23	1.79	0.42
1:A:1726:VAL:HG22	1:A:1734:THR:O	2.20	0.42
1:A:1881:MET:HG3	1:A:1882:TRP:N	2.34	0.42
1:A:2327:ARG:HE	1:E:2471:PRO:CG	2.30	0.42
1:A:2383:THR:HG23	1:B:2403:PRO:HB3	2.02	0.42
1:A:2460:PHE:CZ	1:B:2330:GLU:CB	3.03	0.42
1:B:93:ASN:O	1:B:97:SER:HB3	2.19	0.42
1:B:1030:THR:O	1:B:1033:GLY:N	2.53	0.42
1:B:1124:ARG:NE	1:B:1142:SER:O	2.53	0.42
1:B:1706:LYS:NZ	1:B:1720:TRP:O	2.33	0.42
1:B:2079:ASP:O	1:B:2082:LYS:HB3	2.20	0.42
1:B:2220:ALA:O	1:B:2223:GLN:HB3	2.19	0.42
1:B:2460:PHE:CB	1:C:2464:PHE:CE2	3.03	0.42
1:C:935:HIS:O	1:C:939:ASP:HB2	2.20	0.42
1:C:1282:GLN:O	1:C:1285:VAL:HG12	2.20	0.42
1:C:1974:LEU:O	1:C:1975:SER:OG	2.32	0.42
1:C:2195:GLN:O	1:C:2198:ASN:HB3	2.20	0.42
1:C:2281:ARG:HD2	1:C:2287:ASP:HA	2.02	0.42
1:C:2359:LYS:O	1:C:2363:GLN:HG2	2.20	0.42
1:D:1777:MET:HE1	1:D:1852:THR:HG23	2.01	0.42
1:D:2284:LEU:HD21	1:D:2324:ARG:CB	2.50	0.42
1:D:2359:LYS:O	1:D:2363:GLN:HG2	2.20	0.42
1:E:103:TYR:CD1	1:E:1950:PRO:HG2	2.54	0.42
1:E:150:LEU:HA	1:E:150:LEU:HD23	1.68	0.42
1:E:1196:TYR:N	1:E:1218:ASN:OD1	2.41	0.42
1:E:1777:MET:HE1	1:E:1852:THR:HG23	2.01	0.42
1:E:1798:TYR:O	1:E:1817:ASN:HB3	2.20	0.42
1:E:2039:THR:HG23	1:E:2258:LEU:HD21	2.02	0.42
1:A:1053:GLN:NE2	1:A:1058:ASP:OD1	2.53	0.41
1:A:1830:ASP:HA	1:A:1831:PRO:HD2	1.83	0.41
1:A:1833:ASP:OD1	1:A:1834:SER:N	2.49	0.41
1:A:2330:GLU:CB	1:E:2460:PHE:CZ	3.02	0.41
1:B:111:SER:HB3	1:B:114:SER:HB3	2.01	0.41
1:B:161:THR:O	1:B:162:LEU:HB3	2.18	0.41
1:B:2312:LEU:HA	1:B:2312:LEU:HD12	1.74	0.41
1:B:2359:LYS:O	1:B:2363:GLN:HG2	2.20	0.41
1:C:974:ASP:CB	1:C:977:VAL:HG23	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2210:LEU:HD23	1:C:2210:LEU:HA	1.87	0.41
1:D:115:PRO:CB	1:E:1986:TYR:CE1	3.02	0.41
1:D:1002:GLU:HG2	1:E:1882:TRP:CH2	2.54	0.41
1:D:1798:TYR:O	1:D:1817:ASN:HB3	2.20	0.41
1:D:1805:TYR:HD2	1:D:1814:TYR:CE2	2.37	0.41
1:D:1819:ARG:HG2	1:D:1823:GLU:OE1	2.20	0.41
1:D:2079:ASP:O	1:D:2082:LYS:HB3	2.20	0.41
1:D:2121:ALA:O	1:D:2124:LEU:HB3	2.20	0.41
1:E:972:LEU:HD11	1:E:996:TYR:HB2	2.02	0.41
1:E:1046:ASP:HB2	1:E:1049:MET:HG2	2.02	0.41
1:E:1092:LYS:HA	1:E:1594:GLN:NE2	2.24	0.41
1:E:2195:GLN:O	1:E:2198:ASN:HB3	2.20	0.41
1:A:93:ASN:O	1:A:97:SER:HB3	2.19	0.41
1:A:104:VAL:HG12	1:A:105:ALA:O	2.20	0.41
1:A:182:TYR:O	1:A:185:VAL:N	2.50	0.41
1:A:1124:ARG:NE	1:A:1142:SER:O	2.53	0.41
1:A:1204:ARG:HH21	1:A:1210:ASN:HD21	1.62	0.41
1:A:1204:ARG:HG3	1:A:1208:THR:O	2.20	0.41
1:A:1809:GLY:C	1:A:1810:GLN:O	2.59	0.41
1:A:2023:LEU:HD21	1:A:2318:GLU:HB2	2.01	0.41
1:B:972:LEU:HD11	1:B:996:TYR:HB2	2.03	0.41
1:B:1026:LYS:NZ	1:C:1878:GLU:OE1	2.48	0.41
1:B:1132:ASN:HB2	1:B:1832:LEU:HD12	2.01	0.41
1:B:1666:LYS:HD2	1:B:1708:TYR:CE1	2.55	0.41
1:B:2023:LEU:HD21	1:B:2318:GLU:HB2	2.01	0.41
1:B:2121:ALA:O	1:B:2124:LEU:HB3	2.20	0.41
1:B:2179:ILE:HG21	1:C:2114:ALA:CA	2.50	0.41
1:C:209:GLU:O	1:C:210:VAL:C	2.58	0.41
1:C:1032:ALA:CB	1:D:1989:PRO:HB3	2.48	0.41
1:C:1204:ARG:NH2	1:C:1210:ASN:OD1	2.42	0.41
1:C:1827:TRP:HZ3	1:C:1847:HIS:CE1	2.38	0.41
1:C:2370:SER:O	1:C:2374:ASN:HB3	2.20	0.41
1:C:2458:GLY:O	1:D:2330:GLU:HB2	2.20	0.41
1:D:111:SER:HB3	1:D:114:SER:HB3	2.01	0.41
1:D:160:SER:N	1:D:982:LYS:HD2	2.35	0.41
1:D:1124:ARG:NE	1:D:1142:SER:O	2.53	0.41
1:D:2372:ASN:ND2	1:D:2392:SER:HB2	2.36	0.41
1:E:1726:VAL:HG22	1:E:1734:THR:O	2.20	0.41
1:A:161:THR:HB	1:A:983:THR:HG22	2.03	0.41
1:A:1030:THR:O	1:A:1033:GLY:N	2.53	0.41
1:A:1242:GLU:HA	1:B:1806:ILE:HG23	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1798:TYR:O	1:A:1817:ASN:HB3	2.20	0.41
1:A:1952:ILE:O	1:A:1953:ASN:HB3	2.19	0.41
1:A:2104:ASP:OD1	1:A:2104:ASP:N	2.53	0.41
1:A:2188:ARG:O	1:A:2192:TRP:CD1	2.73	0.41
1:A:2383:THR:CG2	1:B:2403:PRO:HB3	2.50	0.41
1:B:104:VAL:HG12	1:B:105:ALA:O	2.20	0.41
1:B:995:LEU:CD1	1:C:1881:MET:HB3	2.50	0.41
1:B:1824:ASP:OD2	1:B:1846:MET:HG2	2.21	0.41
1:B:1827:TRP:HZ3	1:B:1847:HIS:CE1	2.38	0.41
1:B:2460:PHE:CZ	1:C:2330:GLU:CB	3.02	0.41
1:C:160:SER:HA	1:C:982:LYS:HA	2.02	0.41
1:C:929:GLN:O	1:C:932:ASN:HB2	2.20	0.41
1:C:1001:LEU:HD23	1:C:1001:LEU:HA	1.86	0.41
1:C:1124:ARG:NE	1:C:1142:SER:O	2.53	0.41
1:C:1633:GLN:OE1	1:C:1633:GLN:N	2.53	0.41
1:C:1726:VAL:HG22	1:C:1734:THR:O	2.20	0.41
1:C:1830:ASP:HA	1:C:1831:PRO:HD2	1.83	0.41
1:C:2104:ASP:OD1	1:C:2104:ASP:N	2.53	0.41
1:C:2121:ALA:O	1:C:2124:LEU:HB3	2.20	0.41
1:C:2460:PHE:CE2	1:D:2330:GLU:HG3	2.47	0.41
1:D:160:SER:HA	1:D:982:LYS:HA	2.02	0.41
1:D:1002:GLU:HG2	1:E:1882:TRP:HH2	1.84	0.41
1:D:1665:ILE:CG2	1:D:1674:HIS:HD2	2.32	0.41
1:D:2188:ARG:O	1:D:2192:TRP:HD1	2.02	0.41
1:D:2441:LEU:HD13	1:D:2446:GLU:HG3	2.01	0.41
1:E:1723:PRO:HD3	1:E:1744:PHE:CE2	2.52	0.41
1:A:1072:ASP:HB2	1:E:1204:ARG:NH1	2.36	0.41
1:A:1665:ILE:CG2	1:A:1674:HIS:HD2	2.32	0.41
1:A:2210:LEU:HA	1:A:2210:LEU:HD23	1.87	0.41
1:A:2372:ASN:ND2	1:A:2392:SER:HB2	2.36	0.41
1:A:2441:LEU:HD13	1:A:2446:GLU:CG	2.51	0.41
1:B:1109:TYR:CE2	1:B:1162:ILE:HD11	2.55	0.41
1:B:2165:MET:HG3	1:C:2124:LEU:HG	2.00	0.41
1:C:1758:MET:HG3	1:C:1760:PHE:HE1	1.85	0.41
1:C:2039:THR:HG23	1:C:2258:LEU:HD21	2.02	0.41
1:C:2165:MET:CG	1:D:2124:LEU:HG	2.50	0.41
1:C:2468:LYS:CD	1:D:2327:ARG:HH11	2.28	0.41
1:D:94:ASN:HD22	1:D:94:ASN:N	2.18	0.41
1:D:103:TYR:CD1	1:D:1950:PRO:HG2	2.54	0.41
1:D:161:THR:HB	1:D:983:THR:HG22	2.03	0.41
1:D:1030:THR:O	1:D:1033:GLY:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1198:LEU:HD11	1:D:1215:PHE:HD2	1.85	0.41
1:D:2021:HIS:O	1:D:2024:GLU:HG2	2.21	0.41
1:E:93:ASN:O	1:E:97:SER:HB3	2.19	0.41
1:E:161:THR:HB	1:E:983:THR:HG22	2.02	0.41
1:E:1109:TYR:CE2	1:E:1162:ILE:HD11	2.55	0.41
1:E:1649:PRO:HD3	1:E:1685:ASN:OD1	2.21	0.41
1:E:1809:GLY:C	1:E:1810:GLN:O	2.59	0.41
1:E:2104:ASP:OD1	1:E:2104:ASP:N	2.53	0.41
1:E:2404:ALA:O	1:E:2406:LEU:N	2.51	0.41
1:A:1002:GLU:HG2	1:B:1882:TRP:HH2	1.85	0.41
1:A:1225:LYS:HG3	1:A:1251:ASN:ND2	2.36	0.41
1:A:1282:GLN:O	1:A:1285:VAL:HG12	2.20	0.41
1:A:2013:PHE:CE1	1:B:2323:LYS:HG2	2.51	0.41
1:A:2021:HIS:O	1:A:2024:GLU:HG2	2.21	0.41
1:A:2233:GLN:NE2	1:B:2059:GLN:O	2.52	0.41
1:B:182:TYR:O	1:B:185:VAL:N	2.50	0.41
1:B:1044:TYR:CE2	1:C:1992:PRO:HB3	2.55	0.41
1:B:1053:GLN:NE2	1:B:1058:ASP:OD1	2.53	0.41
1:B:1097:TYR:HD2	1:B:1162:ILE:HD12	1.83	0.41
1:B:1103:ASN:ND2	1:B:1598:TRP:CE2	2.83	0.41
1:B:1747:VAL:HG23	1:B:1747:VAL:O	2.21	0.41
1:B:2188:ARG:O	1:B:2192:TRP:CD1	2.73	0.41
1:B:2277:GLU:OE2	1:B:2290:ARG:HA	2.21	0.41
1:B:2287:ASP:N	1:B:2287:ASP:OD1	2.54	0.41
1:C:1030:THR:O	1:C:1033:GLY:N	2.53	0.41
1:C:2156:ALA:O	1:C:2159:GLU:HB2	2.21	0.41
1:C:2277:GLU:OE2	1:C:2290:ARG:HA	2.20	0.41
1:C:2460:PHE:CG	1:D:2464:PHE:HE2	2.39	0.41
1:D:1726:VAL:HG22	1:D:1734:THR:O	2.20	0.41
1:D:1974:LEU:HA	1:D:1974:LEU:HD23	1.85	0.41
1:D:2277:GLU:OE2	1:D:2290:ARG:HA	2.21	0.41
1:E:1108:THR:HB	1:E:1126:VAL:CG1	2.51	0.41
1:E:1124:ARG:NE	1:E:1142:SER:O	2.53	0.41
1:E:1225:LYS:HG3	1:E:1251:ASN:ND2	2.36	0.41
1:E:1827:TRP:HZ3	1:E:1847:HIS:CE1	2.38	0.41
1:E:2014:MET:HE3	1:E:2014:MET:HB2	1.95	0.41
1:E:2441:LEU:HD13	1:E:2446:GLU:CG	2.51	0.41
1:A:1747:VAL:HG23	1:A:1747:VAL:O	2.21	0.41
1:A:1976:ILE:HD12	1:A:1976:ILE:HA	1.91	0.41
1:A:1986:TYR:CE1	1:E:115:PRO:CB	3.03	0.41
1:A:2039:THR:HG23	1:A:2258:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2403:PRO:HB3	1:E:2383:THR:CG2	2.50	0.41
1:A:2417:VAL:HG22	1:A:2509:LEU:CD2	2.51	0.41
1:B:935:HIS:O	1:B:939:ASP:HB2	2.20	0.41
1:B:1016:GLN:OE1	1:B:1019:ILE:HB	2.20	0.41
1:B:1587:HIS:HB2	1:B:1595:TYR:CZ	2.56	0.41
1:B:1983:LEU:HA	1:B:1983:LEU:HD23	1.81	0.41
1:B:2281:ARG:HD2	1:B:2287:ASP:HA	2.02	0.41
1:C:160:SER:N	1:C:982:LYS:HD2	2.35	0.41
1:C:161:THR:HB	1:C:983:THR:HG22	2.03	0.41
1:C:1109:TYR:CE2	1:C:1162:ILE:HD11	2.55	0.41
1:C:1747:VAL:O	1:C:1747:VAL:HG23	2.21	0.41
1:C:2187:ARG:HH11	1:D:2108:ASN:ND2	2.17	0.41
1:C:2188:ARG:O	1:C:2192:TRP:CD1	2.73	0.41
1:D:169:LEU:HD23	1:D:169:LEU:HA	1.85	0.41
1:D:977:VAL:HG13	1:E:1971:ARG:O	2.21	0.41
1:D:2264:GLN:OE1	1:E:2312:LEU:CD2	2.68	0.41
1:D:2460:PHE:CG	1:E:2464:PHE:HE2	2.39	0.41
1:E:1053:GLN:NE2	1:E:1058:ASP:OD1	2.53	0.41
1:E:1610:ALA:O	1:E:1614:VAL:HG23	2.20	0.41
1:E:2121:ALA:O	1:E:2124:LEU:HB3	2.20	0.41
1:E:2284:LEU:HD21	1:E:2324:ARG:CB	2.50	0.41
1:E:2412:ILE:HD12	1:E:2475:ILE:HB	2.01	0.41
1:E:2417:VAL:HG22	1:E:2509:LEU:CD2	2.51	0.41
1:A:1010:SER:OG	1:A:1240:GLN:NE2	2.54	0.41
1:A:1824:ASP:OD2	1:A:1846:MET:HG2	2.21	0.41
1:A:1963:LEU:HD23	1:A:1963:LEU:HA	1.79	0.41
1:A:2165:MET:CG	1:B:2124:LEU:HG	2.51	0.41
1:A:2195:GLN:O	1:A:2198:ASN:HB3	2.20	0.41
1:B:161:THR:HB	1:B:983:THR:HG22	2.03	0.41
1:B:209:GLU:O	1:B:210:VAL:C	2.58	0.41
1:B:1610:ALA:O	1:B:1614:VAL:HG23	2.20	0.41
1:B:1660:TRP:CG	1:B:1661:PHE:N	2.84	0.41
1:B:2172:MET:HE3	1:C:2120:SER:C	2.31	0.41
1:B:2383:THR:CG2	1:C:2403:PRO:HB3	2.50	0.41
1:C:1053:GLN:NE2	1:C:1058:ASP:OD1	2.53	0.41
1:C:1587:HIS:HB2	1:C:1595:TYR:CZ	2.56	0.41
1:D:1008:ALA:CB	1:D:1013:ILE:HD11	2.51	0.41
1:D:1097:TYR:HD2	1:D:1162:ILE:HD12	1.83	0.41
1:D:1109:TYR:CE2	1:D:1162:ILE:HD11	2.55	0.41
1:D:1282:GLN:O	1:D:1285:VAL:HG12	2.20	0.41
1:D:2412:ILE:HD12	1:D:2475:ILE:HB	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2417:VAL:HG22	1:D:2509:LEU:CD2	2.51	0.41
1:E:209:GLU:O	1:E:210:VAL:C	2.58	0.41
1:E:947:SER:OG	1:E:964:ARG:HG3	2.21	0.41
1:E:1132:ASN:HB2	1:E:1832:LEU:CD1	2.51	0.41
1:E:1204:ARG:HG3	1:E:1208:THR:O	2.20	0.41
1:E:1868:TYR:CE1	1:E:1970:LEU:HG	2.47	0.41
1:E:2280:TYR:HE2	1:E:2291:PHE:HE2	1.69	0.41
1:E:2372:ASN:ND2	1:E:2392:SER:HB2	2.36	0.41
1:A:100:ALA:CB	1:A:1950:PRO:HG3	2.44	0.41
1:A:1108:THR:HB	1:A:1126:VAL:CG1	2.51	0.41
1:A:1974:LEU:HA	1:A:1974:LEU:HD23	1.85	0.41
1:A:2073:LYS:HE3	1:E:2222:LEU:HD11	2.01	0.41
1:A:2079:ASP:O	1:A:2082:LYS:HB3	2.20	0.41
1:A:2314:LEU:N	1:A:2314:LEU:HD12	2.36	0.41
1:A:2390:SER:HA	1:A:2483:THR:HA	2.02	0.41
1:B:106:PRO:HA	1:B:1951:GLN:OE1	2.21	0.41
1:B:160:SER:N	1:B:982:LYS:HD2	2.35	0.41
1:B:1198:LEU:HD11	1:B:1215:PHE:HD2	1.85	0.41
1:B:1225:LYS:HG3	1:B:1251:ASN:ND2	2.36	0.41
1:B:1974:LEU:HD23	1:B:1974:LEU:HA	1.85	0.41
1:B:2294:PRO:HA	1:B:2295:GLY:HA2	1.74	0.41
1:C:115:PRO:CB	1:D:1986:TYR:CE1	3.04	0.41
1:C:1225:LYS:HG3	1:C:1251:ASN:ND2	2.36	0.41
1:C:1858:ASP:O	1:C:1862:ALA:CB	2.68	0.41
1:C:1868:TYR:HE1	1:C:1970:LEU:CG	2.30	0.41
1:D:947:SER:OG	1:D:964:ARG:HG3	2.21	0.41
1:D:1108:THR:OG1	1:D:1128:HIS:NE2	2.30	0.41
1:D:1132:ASN:HB2	1:D:1832:LEU:CD1	2.51	0.41
1:D:1599:GLN:HG3	1:D:1600:SER:H	1.86	0.41
1:D:1747:VAL:O	1:D:1747:VAL:HG23	2.21	0.41
1:D:1868:TYR:HE1	1:D:1970:LEU:CG	2.30	0.41
1:E:974:ASP:CB	1:E:977:VAL:HG23	2.47	0.41
1:E:1103:ASN:ND2	1:E:1598:TRP:CG	2.76	0.41
1:E:1824:ASP:OD2	1:E:1846:MET:HG2	2.21	0.41
1:E:2277:GLU:OE2	1:E:2290:ARG:HA	2.21	0.41
1:A:106:PRO:HA	1:A:1951:GLN:OE1	2.21	0.41
1:A:129:LEU:HD23	1:A:129:LEU:HA	1.84	0.41
1:A:209:GLU:O	1:A:210:VAL:C	2.58	0.41
1:A:1660:TRP:CD2	1:A:1680:GLN:HB3	2.46	0.41
1:A:1800:TRP:CD1	1:A:1816:TRP:CZ2	3.09	0.41
1:A:1825:THR:HA	1:A:1846:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2102:LEU:HB2	1:A:2192:TRP:CE3	2.55	0.41
1:A:2121:ALA:O	1:A:2124:LEU:HB3	2.20	0.41
1:A:2250:LEU:HD23	1:A:2251:TYR:N	2.36	0.41
1:A:2282:TRP:CZ2	1:A:2474:GLY:HA3	2.56	0.41
1:A:2370:SER:O	1:A:2374:ASN:HB3	2.20	0.41
1:B:150:LEU:HD23	1:B:150:LEU:HA	1.68	0.41
1:B:929:GLN:O	1:B:932:ASN:HB2	2.20	0.41
1:B:947:SER:OG	1:B:964:ARG:HG3	2.21	0.41
1:B:1032:ALA:CB	1:C:1989:PRO:HB3	2.48	0.41
1:B:1204:ARG:HG3	1:B:1208:THR:O	2.20	0.41
1:B:1649:PRO:HD3	1:B:1685:ASN:OD1	2.21	0.41
1:B:1798:TYR:O	1:B:1817:ASN:HB3	2.20	0.41
1:B:2021:HIS:O	1:B:2024:GLU:HG2	2.21	0.41
1:B:2039:THR:HG23	1:B:2258:LEU:HD21	2.02	0.41
1:B:2142:PRO:HA	1:B:2143:ASN:HA	1.72	0.41
1:B:2156:ALA:O	1:B:2159:GLU:HB2	2.21	0.41
1:B:2337:LEU:HG	1:B:2391:VAL:HG21	2.03	0.41
1:C:104:VAL:HG12	1:C:105:ALA:O	2.20	0.41
1:C:1198:LEU:HD11	1:C:1215:PHE:HD2	1.85	0.41
1:C:1599:GLN:HG3	1:C:1600:SER:H	1.86	0.41
1:C:1760:PHE:CD2	1:C:1820:PRO:CG	3.00	0.41
1:C:1798:TYR:O	1:C:1817:ASN:HB3	2.20	0.41
1:C:2282:TRP:CZ2	1:C:2474:GLY:HA3	2.56	0.41
1:C:2287:ASP:OD1	1:C:2287:ASP:N	2.54	0.41
1:C:2337:LEU:HG	1:C:2391:VAL:HG21	2.03	0.41
1:C:2372:ASN:ND2	1:C:2392:SER:HB2	2.36	0.41
1:C:2417:VAL:HG22	1:C:2509:LEU:CD2	2.51	0.41
1:C:2441:LEU:HD13	1:C:2446:GLU:CG	2.51	0.41
1:D:93:ASN:OD1	1:D:1894:PRO:CD	2.69	0.41
1:D:106:PRO:HA	1:D:1951:GLN:OE1	2.21	0.41
1:D:141:ARG:NH2	1:D:1005:GLU:OE2	2.38	0.41
1:D:1649:PRO:HD3	1:D:1685:ASN:OD1	2.21	0.41
1:D:1824:ASP:OD2	1:D:1846:MET:HG2	2.21	0.41
1:D:1827:TRP:HZ3	1:D:1847:HIS:CE1	2.38	0.41
1:D:2187:ARG:HH11	1:E:2108:ASN:ND2	2.19	0.41
1:D:2250:LEU:HD23	1:D:2251:TYR:N	2.36	0.41
1:D:2337:LEU:HG	1:D:2391:VAL:HG21	2.03	0.41
1:E:929:GLN:O	1:E:932:ASN:HB2	2.20	0.41
1:E:1665:ILE:CG2	1:E:1674:HIS:HD2	2.32	0.41
1:E:1758:MET:HG3	1:E:1760:PHE:HE1	1.85	0.41
1:E:2021:HIS:O	1:E:2024:GLU:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2023:LEU:HD21	1:E:2318:GLU:HB2	2.01	0.41
1:E:2281:ARG:HD2	1:E:2287:ASP:HA	2.02	0.41
1:E:2282:TRP:CZ2	1:E:2474:GLY:HA3	2.56	0.41
1:A:1599:GLN:HG3	1:A:1600:SER:H	1.86	0.41
1:A:2091:GLY:CA	1:E:2201:ALA:CB	2.99	0.41
1:B:1204:ARG:NH1	1:C:1072:ASP:HB2	2.35	0.41
1:B:1868:TYR:CE1	1:B:1970:LEU:HG	2.47	0.41
1:B:2390:SER:HA	1:B:2483:THR:HA	2.02	0.41
1:B:2441:LEU:HD13	1:B:2446:GLU:CG	2.51	0.41
1:C:1016:GLN:OE1	1:C:1019:ILE:HB	2.20	0.41
1:C:1098:HIS:CE1	1:C:1128:HIS:CD2	3.09	0.41
1:C:1610:ALA:O	1:C:1614:VAL:HG23	2.20	0.41
1:C:2021:HIS:O	1:C:2024:GLU:HG2	2.21	0.41
1:D:1758:MET:HG3	1:D:1760:PHE:HE1	1.85	0.41
1:D:1827:TRP:NE1	1:D:1846:MET:HE2	2.35	0.41
1:E:104:VAL:HG12	1:E:105:ALA:O	2.20	0.41
1:E:1155:LYS:HG3	1:E:1156:SER:N	2.29	0.41
1:E:2142:PRO:HA	1:E:2143:ASN:HA	1.72	0.41
1:E:2390:SER:HA	1:E:2483:THR:HA	2.02	0.41
1:A:174:LYS:HE3	1:A:174:LYS:HB3	1.93	0.40
1:A:948:THR:O	1:A:951:ILE:HB	2.21	0.40
1:A:1100:ASN:ND2	1:A:1105:GLN:HB2	2.37	0.40
1:A:1204:ARG:O	1:A:1207:GLY:N	2.33	0.40
1:A:1287:ARG:O	1:A:1290:SER:N	2.52	0.40
1:A:2277:GLU:OE2	1:A:2290:ARG:HA	2.21	0.40
1:A:2337:LEU:HG	1:A:2391:VAL:HG21	2.03	0.40
1:A:2440:GLY:O	1:A:2441:LEU:HG	2.22	0.40
1:B:1098:HIS:CE1	1:B:1128:HIS:CD2	3.09	0.40
1:B:1599:GLN:HG3	1:B:1600:SER:H	1.86	0.40
1:B:1809:GLY:C	1:B:1810:GLN:O	2.59	0.40
1:C:118:TYR:HD1	1:C:1031:TRP:CD2	2.40	0.40
1:C:1008:ALA:CB	1:C:1013:ILE:HD11	2.51	0.40
1:C:1204:ARG:HG3	1:C:1208:THR:O	2.20	0.40
1:C:1648:PRO:CD	1:C:1745:GLU:HG3	2.45	0.40
1:C:2009:LEU:HA	1:C:2009:LEU:HD23	1.86	0.40
1:C:2314:LEU:HD12	1:C:2314:LEU:N	2.36	0.40
1:C:2460:PHE:CD1	1:D:2512:ARG:HD3	2.55	0.40
1:D:174:LYS:HE3	1:D:174:LYS:HB3	1.92	0.40
1:D:1108:THR:HB	1:D:1126:VAL:CG1	2.51	0.40
1:D:1204:ARG:HG3	1:D:1208:THR:O	2.20	0.40
1:D:1825:THR:HA	1:D:1846:MET:SD	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2383:THR:HB	1:D:2386:SER:HB2	2.04	0.40
1:E:1587:HIS:HB2	1:E:1595:TYR:CZ	2.56	0.40
1:E:1747:VAL:HG23	1:E:1747:VAL:O	2.21	0.40
1:E:1868:TYR:HE1	1:E:1970:LEU:CG	2.30	0.40
1:E:2156:ALA:O	1:E:2159:GLU:HB2	2.21	0.40
1:E:2383:THR:HB	1:E:2386:SER:HB2	2.04	0.40
1:A:1082:LEU:HD23	1:A:1082:LEU:HA	1.74	0.40
1:A:1642:TYR:HH	1:A:1689:THR:HG1	1.60	0.40
1:A:1868:TYR:HE1	1:A:1970:LEU:CG	2.30	0.40
1:A:2281:ARG:HD2	1:A:2287:ASP:HA	2.02	0.40
1:B:1010:SER:OG	1:B:1240:GLN:NE2	2.54	0.40
1:B:1023:LYS:HE3	1:B:1024:TYR:CE2	2.56	0.40
1:B:1737:PRO:C	1:B:1739:SER:H	2.25	0.40
1:B:1800:TRP:CD1	1:B:1816:TRP:CZ2	3.09	0.40
1:B:1868:TYR:HE1	1:B:1970:LEU:CG	2.30	0.40
1:B:2372:ASN:ND2	1:B:2392:SER:HB2	2.36	0.40
1:B:2417:VAL:HG22	1:B:2509:LEU:CD2	2.51	0.40
1:C:94:ASN:N	1:C:94:ASN:HD22	2.18	0.40
1:C:948:THR:O	1:C:951:ILE:HB	2.21	0.40
1:C:1649:PRO:HD3	1:C:1685:ASN:OD1	2.21	0.40
1:C:1779:VAL:HG21	1:C:1795:TRP:CE3	2.56	0.40
1:C:1800:TRP:CD1	1:C:1816:TRP:CZ2	3.09	0.40
1:D:1075:GLU:HG2	1:D:1621:ILE:HB	2.04	0.40
1:D:1225:LYS:HG3	1:D:1251:ASN:ND2	2.36	0.40
1:D:1800:TRP:CD1	1:D:1816:TRP:CZ2	3.09	0.40
1:D:2253:TRP:NE1	1:E:2301:TYR:HE2	2.18	0.40
1:E:2314:LEU:N	1:E:2314:LEU:HD12	2.36	0.40
1:A:947:SER:OG	1:A:964:ARG:HG3	2.21	0.40
1:A:1174:GLN:HG2	1:A:1197:GLU:H	1.87	0.40
1:A:1661:PHE:CZ	1:A:1679:GLY:HA3	2.56	0.40
1:A:1666:LYS:HD2	1:A:1708:TYR:CE1	2.54	0.40
1:A:1706:LYS:NZ	1:A:1720:TRP:O	2.33	0.40
1:A:2280:TYR:HE2	1:A:2291:PHE:HE2	1.69	0.40
1:B:103:TYR:CD1	1:B:1950:PRO:HG2	2.54	0.40
1:B:1082:LEU:HA	1:B:1082:LEU:HD23	1.74	0.40
1:B:1132:ASN:HB2	1:B:1832:LEU:CD1	2.51	0.40
1:B:1645:PHE:CE2	1:B:1707:VAL:HG21	2.57	0.40
1:B:1779:VAL:HG21	1:B:1795:TRP:CE3	2.56	0.40
1:B:1976:ILE:HD12	1:B:1976:ILE:HA	1.91	0.40
1:C:142:ARG:NH2	1:C:168:LEU:HD11	2.37	0.40
1:C:947:SER:OG	1:C:964:ARG:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1044:TYR:OH	1:D:1992:PRO:CG	2.64	0.40
1:C:1174:GLN:HG2	1:C:1197:GLU:H	1.87	0.40
1:C:1665:ILE:CG2	1:C:1674:HIS:HD2	2.32	0.40
1:D:100:ALA:CB	1:D:1950:PRO:HG3	2.44	0.40
1:D:1779:VAL:HG21	1:D:1795:TRP:CE3	2.57	0.40
1:D:2280:TYR:HE2	1:D:2291:PHE:HE2	1.69	0.40
1:D:2282:TRP:CZ2	1:D:2474:GLY:HA3	2.56	0.40
1:D:2377:PHE:HD1	1:D:2377:PHE:HA	1.79	0.40
1:D:2390:SER:HA	1:D:2483:THR:HA	2.02	0.40
1:D:2441:LEU:HD13	1:D:2446:GLU:CG	2.51	0.40
1:E:1174:GLN:HG2	1:E:1197:GLU:H	1.87	0.40
1:E:1857:LEU:HD23	1:E:1889:LEU:HD23	2.03	0.40
1:E:2312:LEU:HD12	1:E:2312:LEU:HA	1.74	0.40
1:E:2438:LYS:HE3	1:E:2438:LYS:HB2	1.83	0.40
1:A:901:ASP:CB	1:A:904:GLN:O	2.70	0.40
1:A:1023:LYS:HE3	1:A:1024:TYR:CE2	2.56	0.40
1:A:1108:THR:OG1	1:A:1128:HIS:NE2	2.30	0.40
1:A:1272:ASP:HB3	1:B:1623:THR:HG23	2.04	0.40
1:A:1587:HIS:HB2	1:A:1595:TYR:CZ	2.56	0.40
1:A:1660:TRP:CG	1:A:1661:PHE:N	2.84	0.40
1:A:2156:ALA:O	1:A:2159:GLU:HB2	2.21	0.40
1:A:2383:THR:HB	1:A:2386:SER:HB2	2.03	0.40
1:B:2314:LEU:HD12	1:B:2314:LEU:N	2.36	0.40
1:B:2383:THR:HG23	1:C:2403:PRO:HB3	2.03	0.40
1:C:2250:LEU:HD23	1:C:2251:TYR:N	2.36	0.40
1:C:2264:GLN:OE1	1:D:2312:LEU:CD2	2.70	0.40
1:C:2440:GLY:O	1:C:2441:LEU:HG	2.22	0.40
1:D:978:SER:HB2	1:E:1972:HIS:CD2	2.55	0.40
1:D:1098:HIS:CE1	1:D:1128:HIS:CD2	3.09	0.40
1:D:1103:ASN:ND2	1:D:1598:TRP:CE2	2.83	0.40
1:D:1648:PRO:HA	1:D:1649:PRO:HD3	1.90	0.40
1:D:2156:ALA:O	1:D:2159:GLU:HB2	2.21	0.40
1:D:2314:LEU:HD12	1:D:2314:LEU:N	2.36	0.40
1:E:142:ARG:NH2	1:E:168:LEU:HD11	2.37	0.40
1:E:1023:LYS:HE3	1:E:1024:TYR:CE2	2.56	0.40
1:E:1661:PHE:CZ	1:E:1679:GLY:HA3	2.56	0.40
1:E:1736:ASN:HB3	1:E:1738:LYS:HZ3	1.86	0.40
1:E:1737:PRO:C	1:E:1739:SER:H	2.25	0.40
1:E:1779:VAL:HG21	1:E:1795:TRP:CE3	2.56	0.40
1:E:1800:TRP:CD1	1:E:1816:TRP:CZ2	3.09	0.40
1:E:2079:ASP:O	1:E:2082:LYS:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2337:LEU:HG	1:E:2391:VAL:HG21	2.03	0.40
1:E:2425:PRO:HA	1:E:2426:TYR:HA	1.56	0.40
1:E:2440:GLY:O	1:E:2441:LEU:HG	2.22	0.40
1:A:1610:ALA:O	1:A:1614:VAL:HG23	2.20	0.40
1:A:2253:TRP:NE1	1:B:2301:TYR:HE2	2.19	0.40
1:A:2318:GLU:CB	1:E:2272:ARG:HH22	2.34	0.40
1:B:94:ASN:N	1:B:94:ASN:HD22	2.18	0.40
1:B:1108:THR:OG1	1:B:1128:HIS:NE2	2.30	0.40
1:B:1282:GLN:O	1:B:1285:VAL:HG12	2.20	0.40
1:B:1661:PHE:CZ	1:B:1679:GLY:HA3	2.56	0.40
1:B:2103:TYR:O	1:B:2104:ASP:CB	2.70	0.40
1:B:2122:ALA:O	1:B:2125:THR:OG1	2.26	0.40
1:B:2236:SER:OG	1:C:2059:GLN:NE2	2.53	0.40
1:C:106:PRO:HA	1:C:1951:GLN:OE1	2.21	0.40
1:C:901:ASP:CB	1:C:904:GLN:O	2.70	0.40
1:C:1645:PHE:CE2	1:C:1707:VAL:HG21	2.57	0.40
1:C:1824:ASP:OD2	1:C:1846:MET:HG2	2.21	0.40
1:D:118:TYR:HD1	1:D:1031:TRP:CD2	2.40	0.40
1:D:1143:GLU:H	1:D:1143:GLU:HG2	1.64	0.40
1:D:1660:TRP:CE3	1:D:1680:GLN:CA	3.01	0.40
1:D:1662:LYS:O	1:D:1710:THR:N	2.39	0.40
1:D:2165:MET:HG3	1:E:2124:LEU:HG	2.02	0.40
1:D:2287:ASP:OD1	1:D:2287:ASP:N	2.54	0.40
1:E:935:HIS:O	1:E:939:ASP:HB2	2.20	0.40
1:E:1859:LEU:HD12	1:E:1859:LEU:HA	1.71	0.40
1:E:1974:LEU:HA	1:E:1974:LEU:HD23	1.85	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [\(i\)](#)

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	25	62
1	B	1415/2516 (56%)	1297 (92%)	110 (8%)	8 (1%)	25	62
1	C	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	25	62
1	D	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	25	62
1	E	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	25	62
All	All	7075/12580 (56%)	6489 (92%)	546 (8%)	40 (1%)	29	62

All (40) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	96	PHE
1	A	954	VAL
1	A	1810	GLN
1	A	2144	ILE
1	B	96	PHE
1	B	954	VAL
1	B	1810	GLN
1	B	2144	ILE
1	C	96	PHE
1	C	954	VAL
1	C	1810	GLN
1	C	2144	ILE
1	D	96	PHE
1	D	954	VAL
1	D	1810	GLN
1	D	2144	ILE
1	E	96	PHE
1	E	954	VAL
1	E	1810	GLN
1	E	2144	ILE
1	A	1006	GLU
1	B	1006	GLU
1	C	1006	GLU
1	D	1006	GLU
1	E	1006	GLU
1	A	1686	ILE
1	A	1740	ILE
1	A	1835	VAL
1	B	1686	ILE
1	B	1740	ILE
1	B	1835	VAL

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Mol	Chain	Res	Type
1	C	1686	ILE
1	C	1740	ILE
1	C	1835	VAL
1	D	1686	ILE
1	D	1740	ILE
1	D	1835	VAL
1	E	1686	ILE
1	E	1740	ILE
1	E	1835	VAL

### 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	1135/2157 (53%)	1132 (100%)	3 (0%)	92	98
1	B	1135/2157 (53%)	1132 (100%)	3 (0%)	92	98
1	C	1135/2157 (53%)	1132 (100%)	3 (0%)	92	98
1	D	1135/2157 (53%)	1132 (100%)	3 (0%)	92	98
1	E	1135/2157 (53%)	1132 (100%)	3 (0%)	92	98
All	All	5675/10785 (53%)	5660 (100%)	15 (0%)	92	98

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	94	ASN
1	A	2104	ASP
1	A	2189	ARG
1	B	94	ASN
1	B	2104	ASP
1	B	2189	ARG
1	C	94	ASN
1	C	2104	ASP
1	C	2189	ARG
1	D	94	ASN

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Mol	Chain	Res	Type
1	D	2104	ASP
1	D	2189	ARG
1	E	94	ASN
1	E	2104	ASP
1	E	2189	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (92) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	94	ASN
1	A	1016	GLN
1	A	1202	HIS
1	A	1240	GLN
1	A	1265	GLN
1	A	1588	HIS
1	A	1594	GLN
1	A	1667	HIS
1	A	1674	HIS
1	A	1847	HIS
1	A	1951	GLN
1	A	1972	HIS
1	A	2059	GLN
1	A	2373	ASN
1	A	2430	GLN
1	A	2452	HIS
1	A	2465	ASN
1	A	2497	GLN
1	A	2510	HIS
1	B	94	ASN
1	B	1016	GLN
1	B	1202	HIS
1	B	1240	GLN
1	B	1265	GLN
1	B	1588	HIS
1	B	1594	GLN
1	B	1667	HIS
1	B	1674	HIS
1	B	1847	HIS
1	B	1972	HIS
1	B	2059	GLN
1	B	2373	ASN
1	B	2430	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	2452	HIS
1	B	2465	ASN
1	B	2497	GLN
1	B	2510	HIS
1	C	94	ASN
1	C	1016	GLN
1	C	1202	HIS
1	C	1240	GLN
1	C	1265	GLN
1	C	1588	HIS
1	C	1594	GLN
1	C	1667	HIS
1	C	1674	HIS
1	C	1847	HIS
1	C	1951	GLN
1	C	2059	GLN
1	C	2373	ASN
1	C	2430	GLN
1	C	2452	HIS
1	C	2465	ASN
1	C	2497	GLN
1	C	2510	HIS
1	D	94	ASN
1	D	1016	GLN
1	D	1202	HIS
1	D	1240	GLN
1	D	1265	GLN
1	D	1588	HIS
1	D	1594	GLN
1	D	1667	HIS
1	D	1674	HIS
1	D	1847	HIS
1	D	1972	HIS
1	D	2059	GLN
1	D	2373	ASN
1	D	2430	GLN
1	D	2452	HIS
1	D	2465	ASN
1	D	2497	GLN
1	D	2510	HIS
1	E	94	ASN
1	E	1016	GLN

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Mol	Chain	Res	Type
1	E	1202	HIS
1	E	1240	GLN
1	E	1265	GLN
1	E	1588	HIS
1	E	1594	GLN
1	E	1667	HIS
1	E	1674	HIS
1	E	1847	HIS
1	E	1951	GLN
1	E	1972	HIS
1	E	2059	GLN
1	E	2373	ASN
1	E	2430	GLN
1	E	2452	HIS
1	E	2465	ASN
1	E	2497	GLN
1	E	2510	HIS

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

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

There are no ligands in this entry.

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

There are no such residues in this entry.

## 5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	1
1	B	1
1	C	1
1	D	1
1	E	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	1830:ASP	C	1831:PRO	N	1.02
1	B	1830:ASP	C	1831:PRO	N	1.02
1	C	1830:ASP	C	1831:PRO	N	1.02
1	D	1830:ASP	C	1831:PRO	N	1.02
1	E	1830:ASP	C	1831:PRO	N	1.02

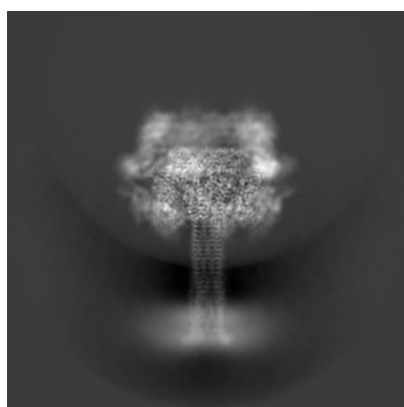
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-4068. These allow visual inspection of the internal detail of the map and identification of artifacts.

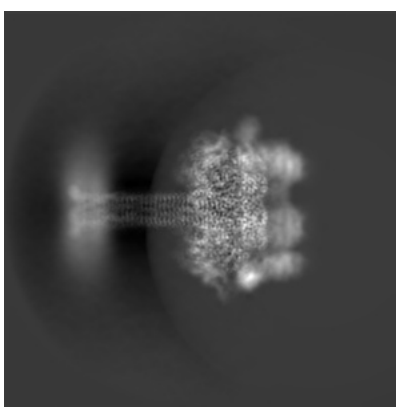
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

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

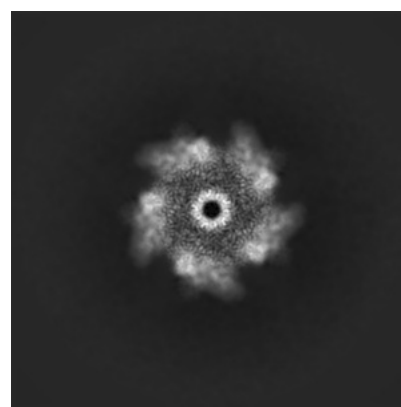
#### 6.1.1 Primary map



X



Y



Z

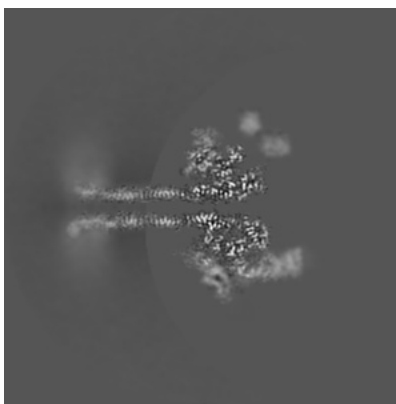
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

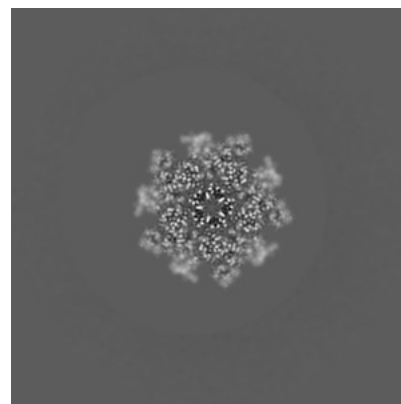
#### 6.2.1 Primary map



X Index: 141



Y Index: 141



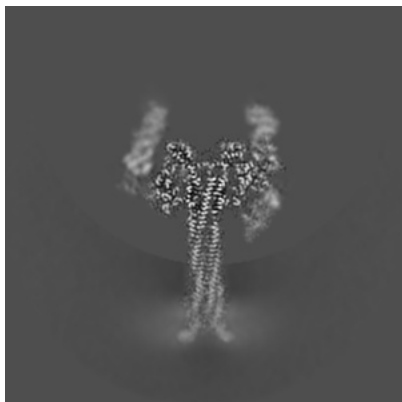
Z Index: 141



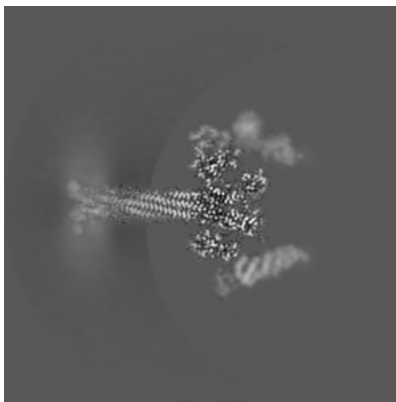
The images above show central slices of the map in three orthogonal directions.

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

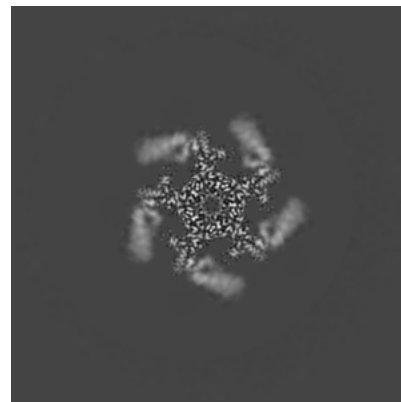
### 6.3.1 Primary map



X Index: 134



Y Index: 132



Z Index: 169

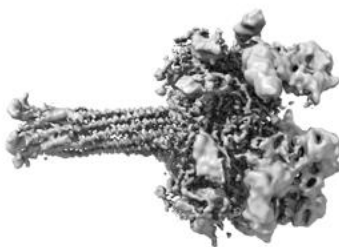
The images above show the largest variance slices of the map in three orthogonal directions.

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

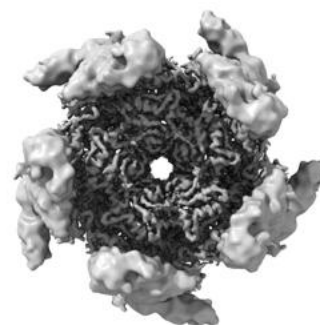
### 6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 6.75. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

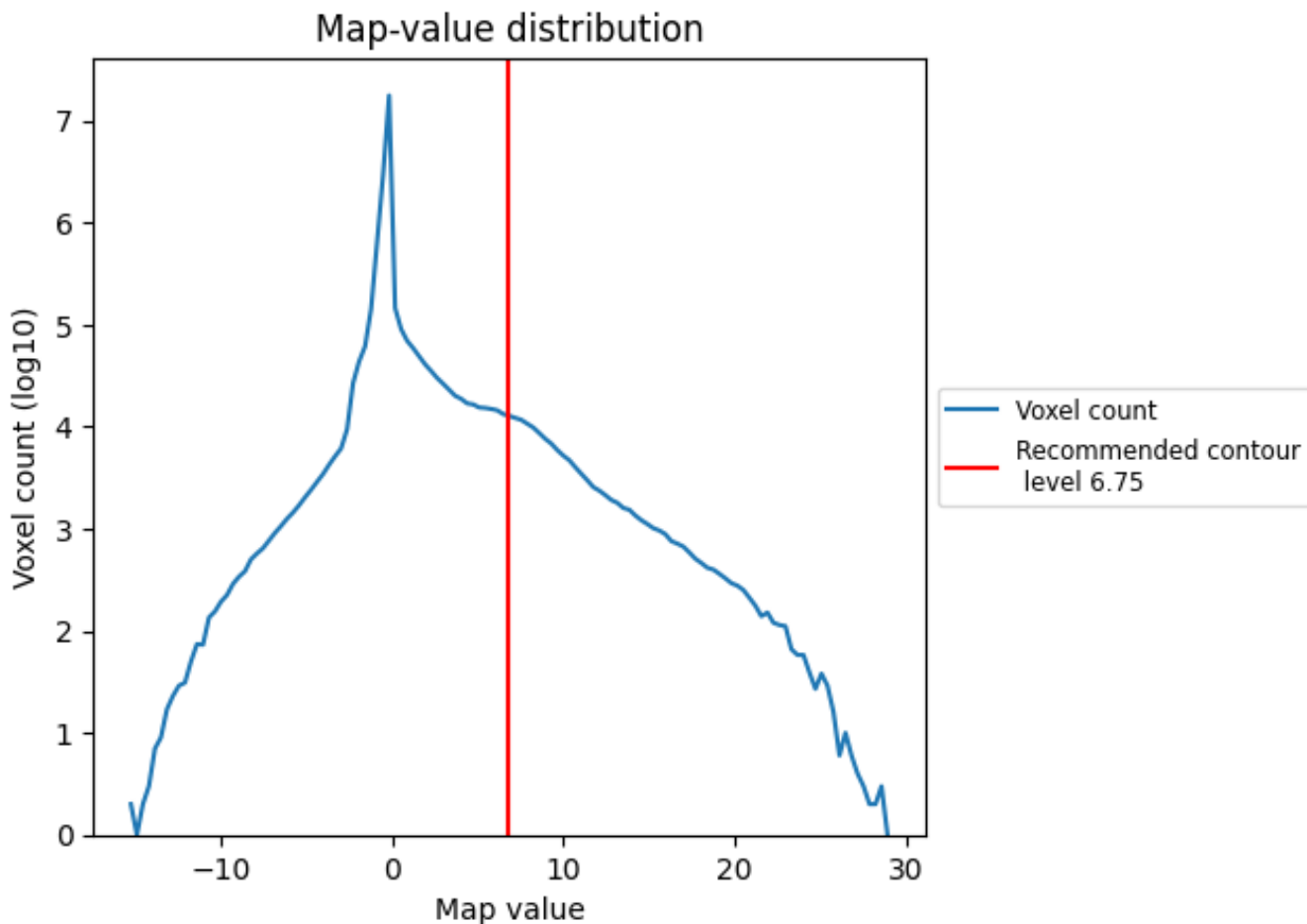
## 6.5 Mask visualisation

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

## 7 Map analysis [i](#)

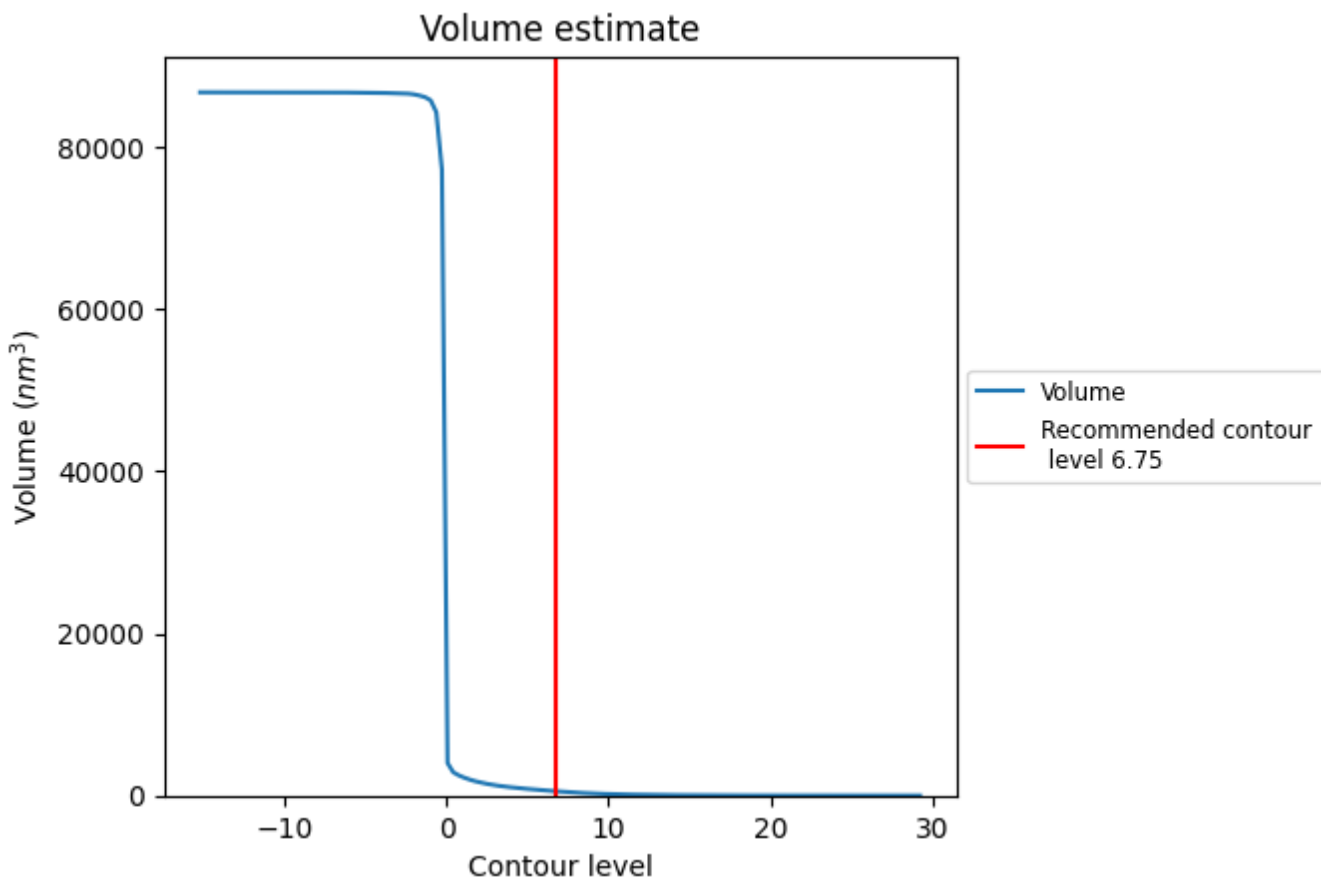
This section contains the results of statistical analysis of the map.

### 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.

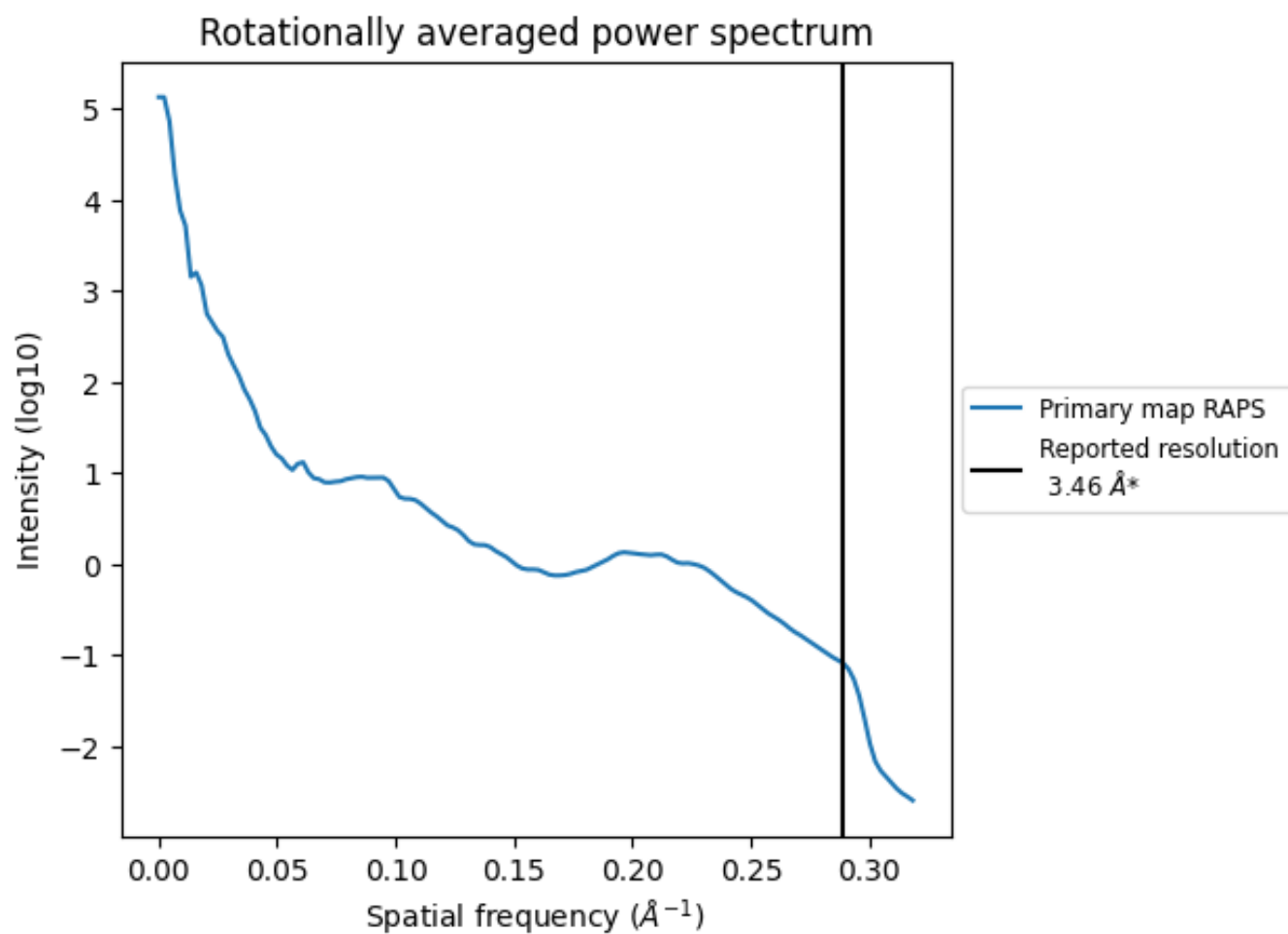
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 535  $\text{nm}^3$ ; this corresponds to an approximate mass of 483 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 0.289 Å<sup>-1</sup>

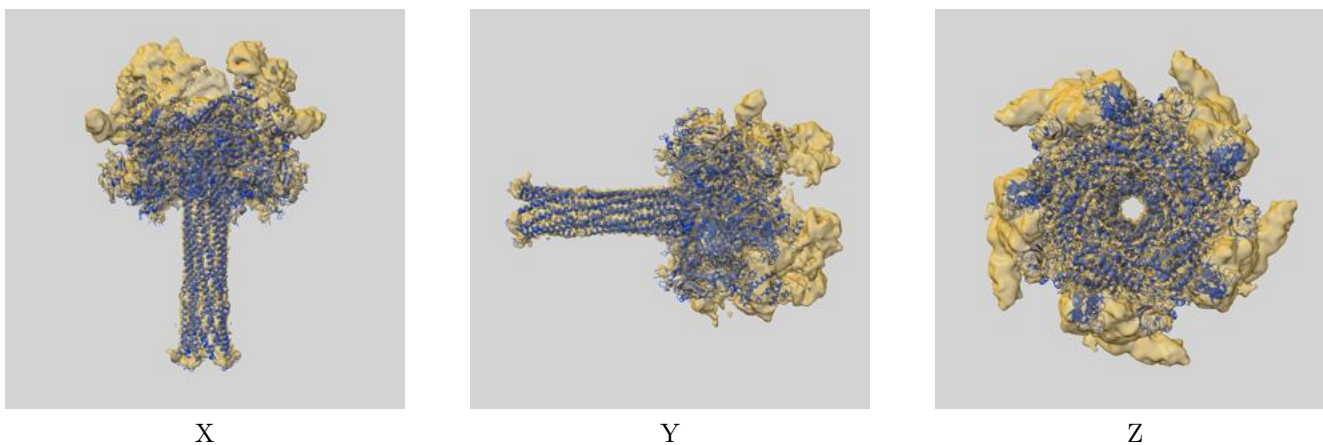
## 8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

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

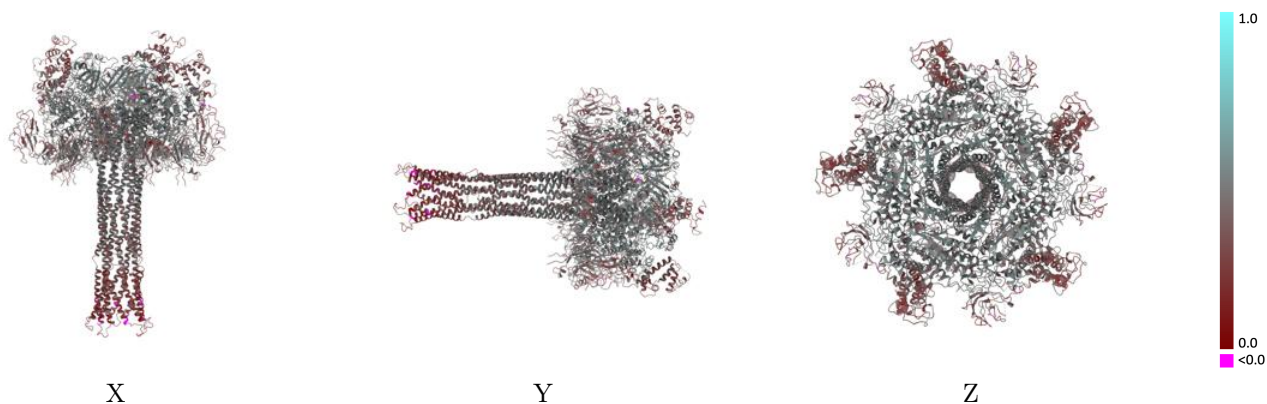
This section contains information regarding the fit between EMDB map EMD-4068 and PDB model 5LKI. Per-residue inclusion information can be found in section 3 on page 4.

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



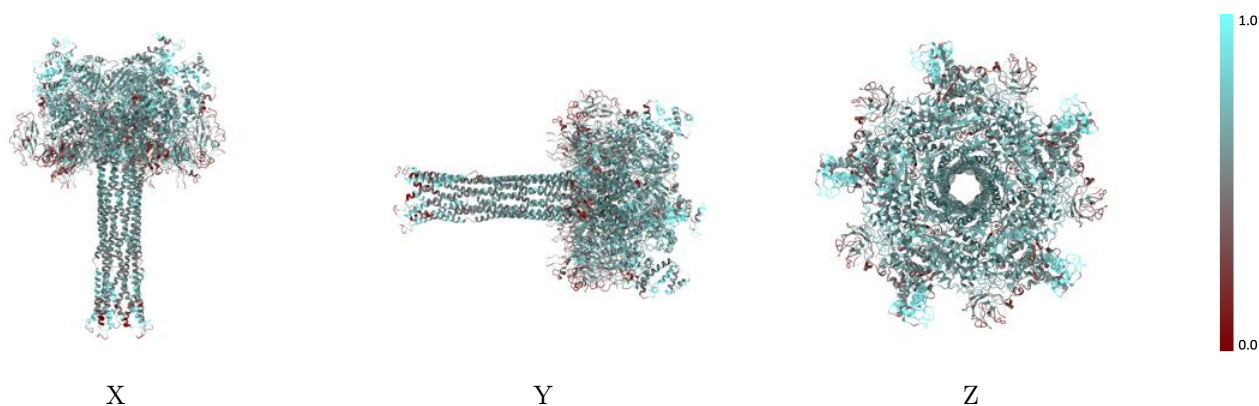
The images above show the 3D surface view of the map at the recommended contour level 6.75 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 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.

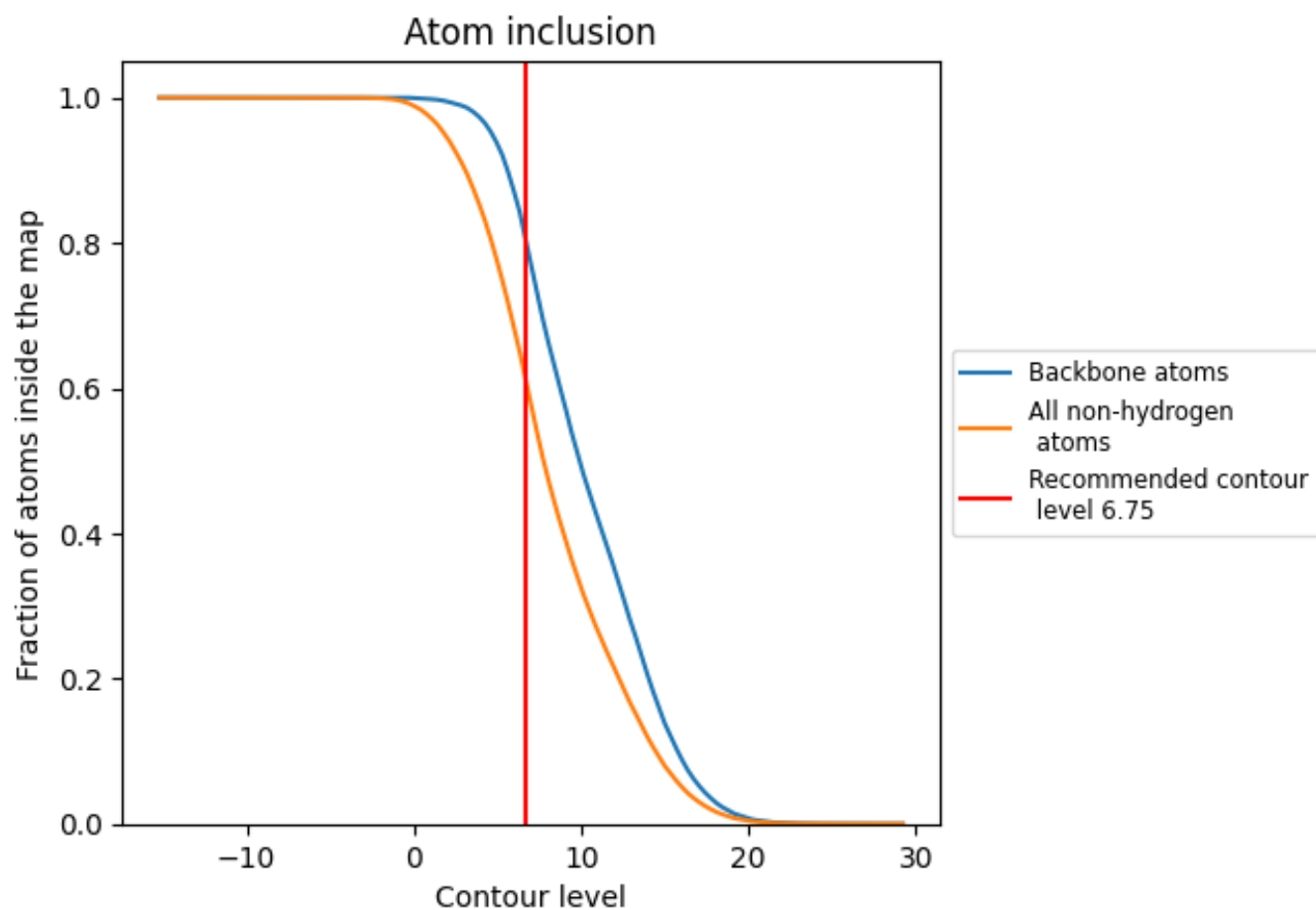
## 9.3 Atom inclusion mapped to coordinate model [\(i\)](#)



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 (6.75).















## 9.4 Atom inclusion [i](#)



At the recommended contour level, 80% of all backbone atoms, 61% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (6.75) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6053	 0.4300
A	 0.6124	 0.4380
B	 0.6015	 0.4270
C	 0.6021	 0.4270
D	 0.6046	 0.4280
E	 0.6059	 0.4300

