



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 06:20 AM UTC

PDB ID : 5LKI / pdb_00005lki
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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

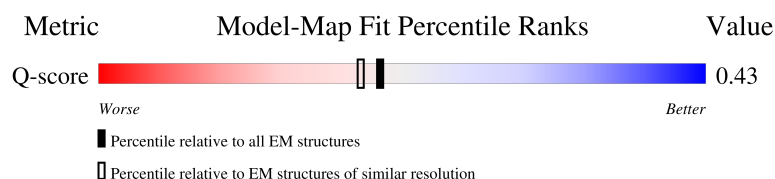
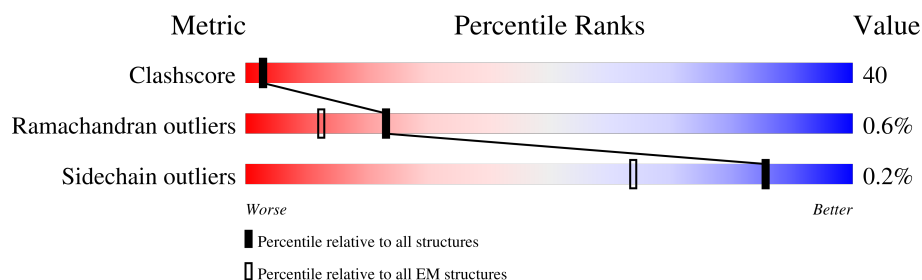
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

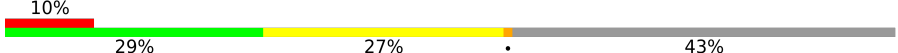
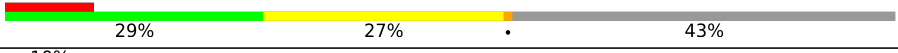
The reported resolution of this entry is 3.46 Å.

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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	13788 (2.96 - 3.96)

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

Mol	Chain	Length	Quality of chain
1	A	2516	
1	B	2516	
1	C	2516	
1	D	2516	

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Mol	Chain	Length	Quality of chain
1	E	2516	10% 29% 27% • 43%

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.

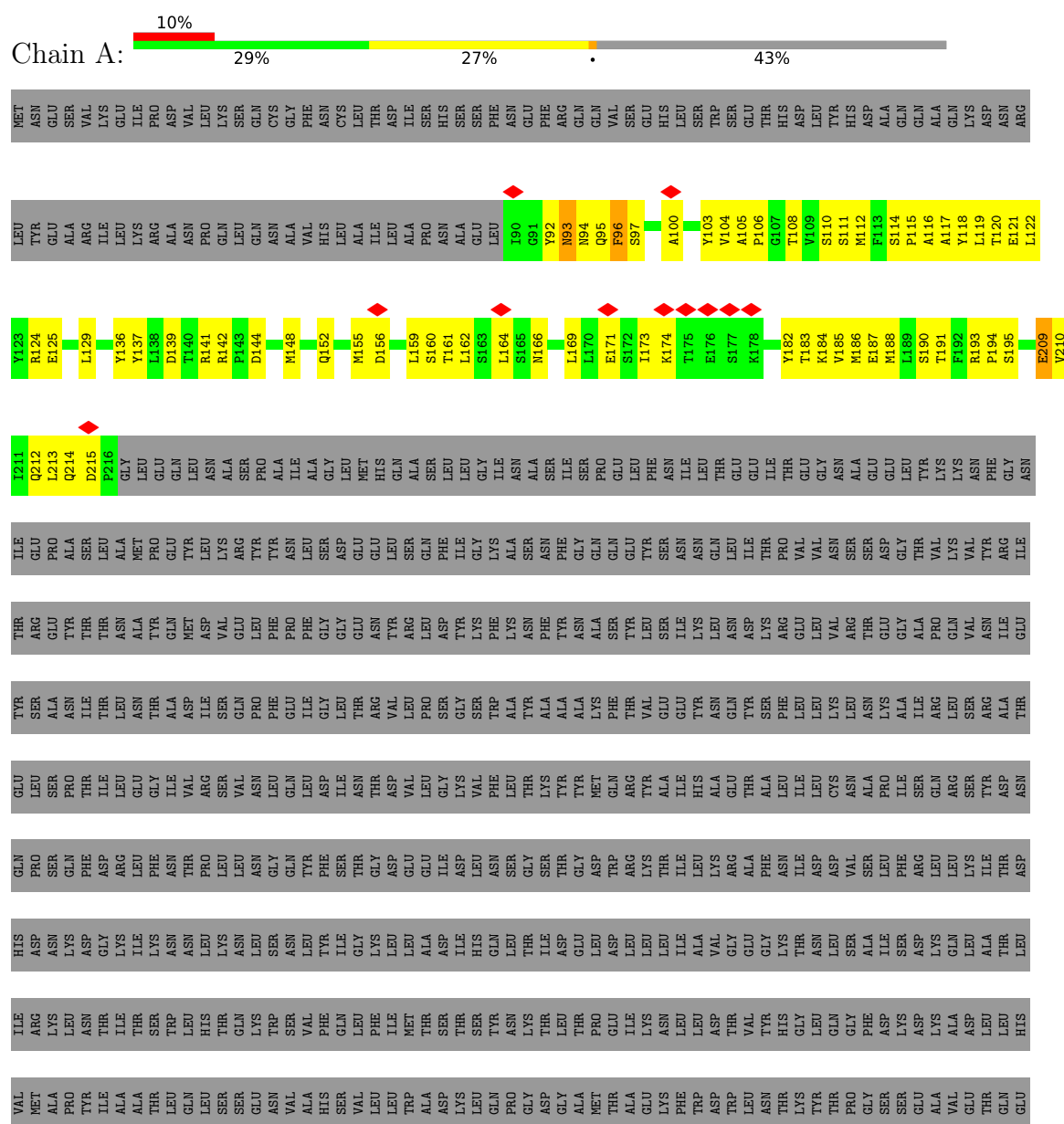
- Molecule 1 is a protein called TcdA1.

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

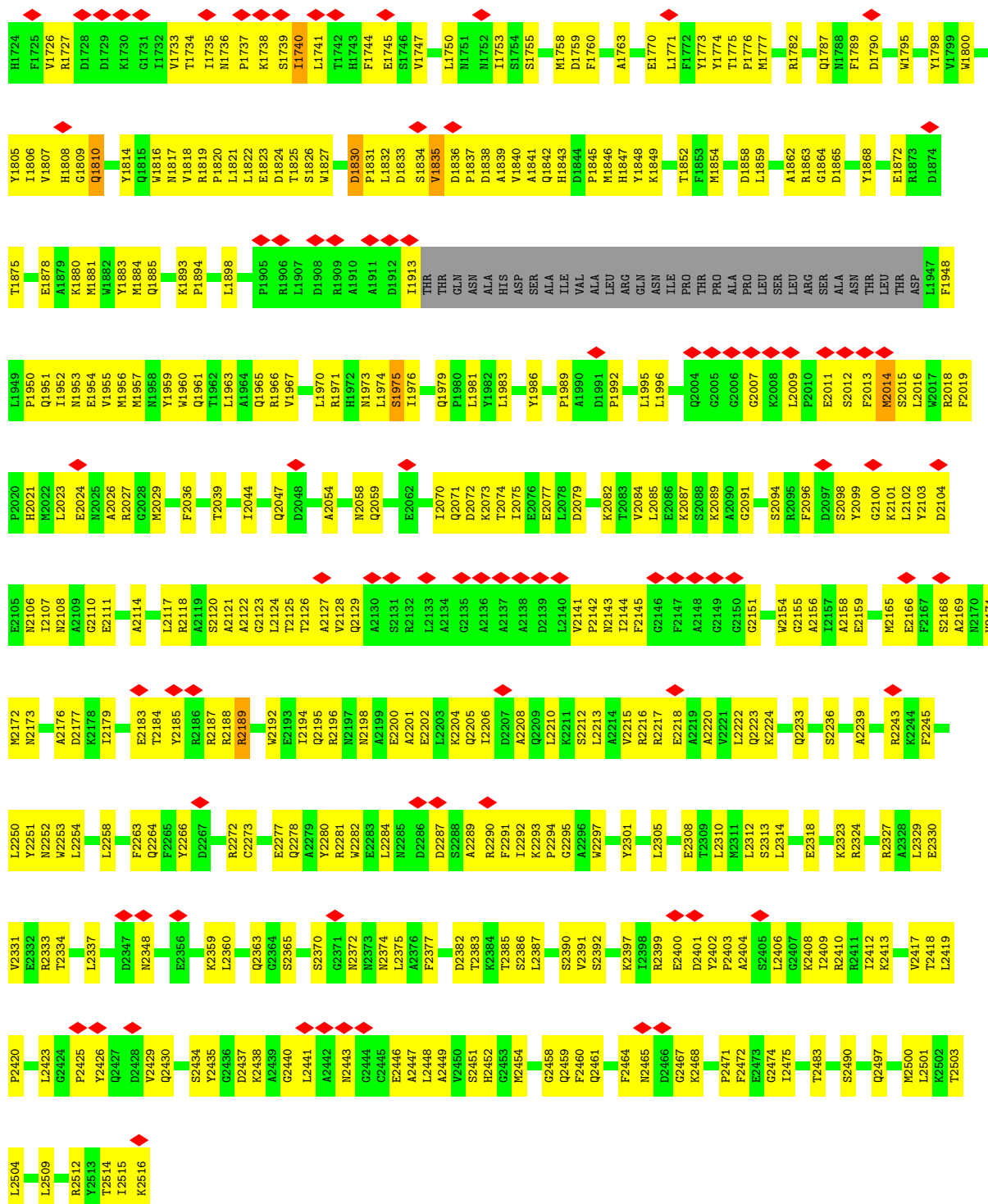
3 Residue-property plots

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.

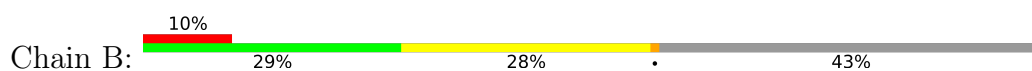
• Molecule 1: TcdA1







• Molecule 1: TcdA1



MET	ASN	GLU	SER	VAL	LYS	GLU	ILE	PRO	ASP	VAL	LEU	SER	LYS	SER	GLN	CYS	GLY	PHE	ASP	CYS	LEU	THR	ASP	ILE	SER	HIS	SER	PHE	ASN	GLU	PHE	ARG	GLN	VAL	SER	GLU	HIS	LEU	TRP	SER	THR	ASP	ASP	THR	TYP	HIS	LEU	ASP	ALA	GLN	GLN	ALA	GLN	LYS	ASP	ASN	ARG
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

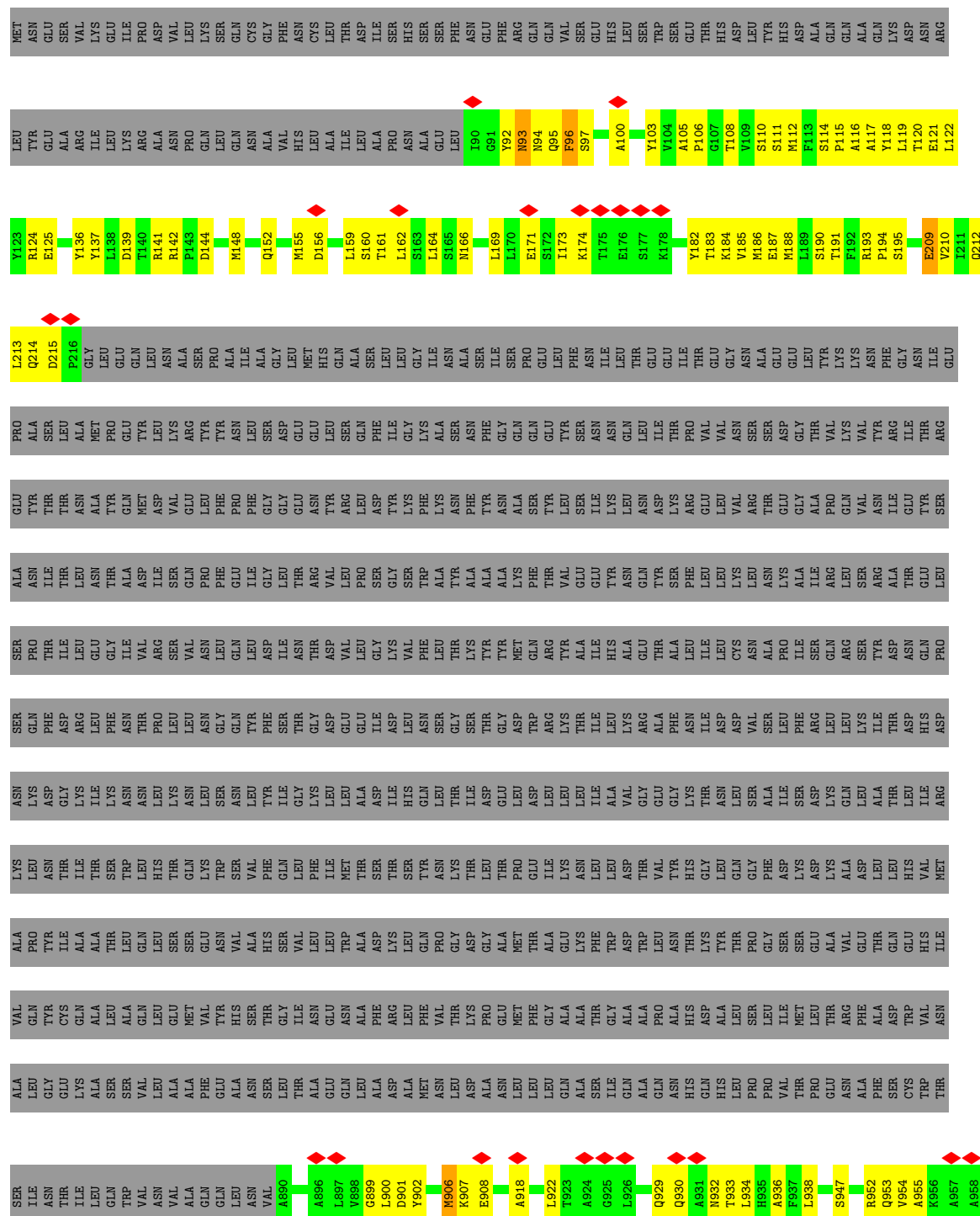


P2010	E2011	S2012	F2013	H2014	S2015	L2016	L1947	R1863	W1795	W1720	R1659	L1584	SER	S1283	E1223	V1161	
E2012	S2013	H2014	S2015	L2016	L1947	R1863	W1795	G1864	W1798	W1721	W1660	T1585	PHE	N1284	L1224	T1162	
L2017	F2018	L2019	L1948	R1873	L1874	D1865	Y1799	G1865	Y1798	G1722	F1661	L1586	ASP	V1285	K1225	Y1163	
F2020	H2021	L2022	L1949	T1875	L1876	L1866	W1800	L1867	Y1799	H1724	L1663	H1588	MET	Y1286	L1226	K1164	
H2022	L2023	N1881	L1950	L1877	L1878	L1867	W1800	L1868	Y1799	F1725	Y1664	H1588	ASN	R1287	E1227	K1165	
L2024	E1954	Y1955	L1950	L1879	L1880	L1868	W1800	L1869	Y1799	D1728	H1667	Q1594	GLN	L1290	K1228	L1167	
L2025	V1955	M1956	L1950	L1881	L1882	L1869	W1800	L1870	Y1799	D1729	Y1668	M1596	TYR	Y1291	N1229	Y1168	
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L2032	M1962	M1963	L1950	L1895	L1896	L1883	W1800	L1884	Y1799	I1736	H1675	N1606	ASN	V1298	A1237	THR	
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L2035	M1965	M1966	L1950	L1901	L1902	L1889	W1800	L1890	Y1799	K1738	S1678	V1614	GLY	R1301	Q1240	GLY	
L2036	M1966	M1967	L1950	L1903	L1904	L1891	W1800	L1892	Y1799	I1740	Q1680	A1615	ASN	V1302	G1241	ASN	
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L2038	M1968	M1969	L1950	L1907	L1908	L1895	W1800	L1896	Y1799	T1742	T1682	D1622	ALA	N1304	D1243	LYS	
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L2040	M1970	M1971	L1950	L1911	L1912	L1899	W1800	L1900	Y1799	F1744	Y1684	I1624	ASP	ALA	L1245	T1913	
L2041	M1971	M1972	L1950	L1913	L1914	L1901	W1800	L1902	Y1799	E1745	N1685	L1625	VAL	GLU	L1246	Y1194	
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L2063	M1993	M1994	L1950	L1957	L1958	L1945	W1800	L1946	Y1799	L1783	K1712	T1654	PRO	GLY	I1269	D1216	
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L2073	M2008	M2009	L1950	L1977	L1978	L1965	W1800	L1966	Y1799								
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L2075	M2012	M2013	L1950	L1981	L1982	L1969	W1800	L1970	Y1799								
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L2078	M2018	M2019	L1950	L1987	L1988	L1975	W1800	L1976	Y1799								
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L2096	M2054	M2055	L1950	L2023	L2024	L2011	W1800	L2012	Y1799								
L2097	M2056	M2057	L1950	L2025	L2026	L2013	W1800	L2014	Y1799								
L2098	M2058	M2059	L1950	L2027	L2028	L2015	W1800	L2016	Y1799								
L2099	M2060	M2061	L1950	L2029	L2030	L2017	W1800	L2018	Y1799								
L2100	M2062	M2063	L1950	L2031	L2032	L2019	W1800	L2020	Y1799								
L2101	M2064	M2065	L1950	L2033	L2034	L2021	W1800	L2022	Y1799								
L2102	M2066	M2067	L1950	L2035	L2036	L2023	W1800	L2024	Y1799								
L2103	M2068	M2069	L1950	L2037	L2038	L2025	W1800										

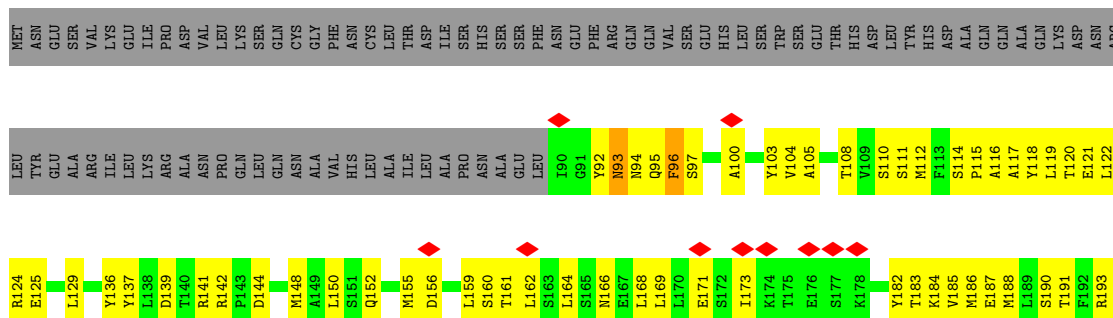




R2410	R2411	L2412	K2413	V2417	T2418	L2419	P2420	A2421	L2422	L2423	G2424	P2425	Y2426	Q2427	D2428	V2429	Q2430	S2434	Y2435	G2436	D2437	K2438	A2439	G2440	L2441	A2442	N2443	G2444	E2446	A2447	L2448	A2449	V2450	S2451	H2452	G2453	N2454	G2458	Q2459	F2460	Q2461	F2464	N2465	G2467	K2468	P2471	F2472	E2473	G2474	I2475	T2483					
R2324	R2327	L2328	A2329	E2330	V2331	E2332	R2333	T2334	L2337	D2347	N2348	D2358	K2359	L2360	V2361	S2362	Q2363	G2364	S2365	S2370	G2371	N2372	N2373	N2374	L2375	A2376	F2377	D2382	T2383	K2384	S2385	G2386	L2387	S2390	V2391	S2392	D2395	L2396	K2397	I2398	R2399	E2400	D2401	Y2402	P2403	A2404	S2405	L2406	G2407	K2408	I2409					
E2159	M2165	E2166	F2167	S2168	A2169	R2170	M2171	M2172	M2173	A2176	D2177	K2178	I2179	E2183	T2184	R2185	G2186	R2187	R2188	R2189	W2192	E2193	I2194	Q2195	R2196	N2197	N2198	E2200	A2201	E2202	L2203	K2204	Q2205	I2206	D2207	Q2209	L2210	K2211	S2212	A2214	V2215	R2216	R2217	E2218	A2219	S2220	V2221	L2222	Q2223	K2224	S2236					
A2239	R2243	K2244	F2245	L2250	Y2251	N2252	W2253	L2254	L2258	F2263	Q2264	F2265	Y2266	R2272	C2273	E2277	Q2278	A2279	Y2280	R2281	W2282	E2283	L2284	N2285	D2286	D2287	S2288	A2289	R2290	F2291	L2292	K2293	W2297	Y2301	L2304	L2305	E2308	T2309	L2310	M2311	L2312	S2313	L2314	E2318	D2319	K2323										
R3324	R3327	A3328	L3329	E3330	V3331	E3332	R3333	T3334	L3337	D3347	N3348	D3358	K3359	L3360	V3361	S3362	Q3363	G3364	S3365	S3370	G3371	N3372	N3373	N3374	L3375	A3376	F3377	D3382	T3383	K3384	S3385	G3386	L3387	S3390	V3391	S3392	D3395	L3396	K3397	I3398	R3399	E3400	D3401	Y3402	P3403	A3404	S3405	L3406	G3407	K3408	I3409					
L1584	T1585	L1586	H1587	H1588	N1589	E1590	Q1594	Y1595	M1596	K1597	W1598	Q1599	S1600	Y1601	R1602	T1603	R1604	L1605	N1606	A1610	R1611	Y1614	A1615	R1616	D1622	T1623	L1624	L1625	S1626	T1629	Q1633	E1634	P1635	Q1636	L1637	G1638	K1639	G1640	F1641	Y1642	A1643	T1644	V1645	F1646	T1647	P1648	P1649	Y1650	N1651	S1652	T1654	H1655				
G1656	D1657	E1658	R1659	W1660	F1661	F1662	L1663	Y1664	T1665	K1666	H1667	V1668	V1669	D1670	N1671	T1672	S1673	H1674	I1675	I1676	Y1677	Q1680	L1681	T1682	D1683	T1684	N1685	I1686	N1687	T1688	T1689	L1690	F1691	I1692	P1693	L1694	D1695	D1696	VAL	PRO	LEU	ASN	GLN	D1702	Y1703	K1706	V1707	Y1708	M1709	T1710	K1711	K1712	K1713	S1714	P1715	S1716
G1718	T1719	W1720	W1721	G1722	P1723	H1724	F1725	V1726	R1727	D1728	D1729	K1730	G1731	I1732	V1733	T1734	I1735	N1736	P1737	K1738	S1739	I1740	L1741	T1742	H1743	F1744	E1745	W1746	V1747	L1750	I1753	S1754	S1755	M1758	D1759	F1760	A1763	E1770	L1771	F1772	Y1773	Y1774	T1775	P1776	M1777	L1778	V1779	R1782	L1783	Q1787	N1788	F1789				
D1790	W1795	Y1798	W1799	W1800	S1803	G1804	Y1805	V1806	H1807	H1808	G1809	Q1810	Y1814	Q1815	W1816	N1817	V1818	P1820	L1821	L1822	E1823	D1824	T1825	S1826	D1830	L1832	D1833	S1834	V1835	D1836	P1837	D1838	A1839	V1840	A1841	Q1842	H1843	D1844	P1845	M1846	H1847	Y1848	K1849	T1852	F1853	M1854	D1858	L1859								
A1862	R1863	G1864	D1865	Y1868	E1872	R1873	D1874	T1875	E1878	A1879	K1880	M1881	Y1882	Y1883	M1884	Q1885	K1893	P1894	L1898	P1905	R1906	L1907	D1908	R1909	A1910	A1911	D1912	I1913	THR	THR	GLN	ASN	ALA	HIS	ASP	SER	ALA	ALA	ILE	VAL	ALA	LEU	ARG	GLN	ASN	ILE	PRO	THR	ALA	PRO	LEU	SER	LEU			
ARG	SER	ALA	ASN	THR	LEU	THR	ASP	L1947	F1948	P1950	Q1951	I1952	M1953	E1954	V1955	M1956	M1957	H1958	Y1959	W1960	Q1961	T1962	L1963	A1964	Q1965	R1966	V1967	L1970	R1971	H1972	N1973	L1974	S1975	I1976	D1977	Q1978	Q1979	P1980	L1981	T1982	L1983	Y1986	P1989	A1990	D1991	P1992	L1995	L1996	Q2004	G2005	G2006	G2007	K2008			
L2009	P2010	E2011	S2012	F2013	M2014	S2015	L2016	W2017	R2018	P2019	H2020	H2021	K2022	L2023	E2024	H2025	A2026	R2027	G2028	W2029	F2036	T2039	L2044	Q2047	D2048	A2054	N2058	Q2059	E2062	T2070	Q2071	D2072	K2073	T2074	L2075	E2076	E2077	L2078	D2079	K2082	T2083	V2084	L2085	E2086	K2087	S2088	K2089	A2090	Q2091							
S2094	R2095	F2096	D2097	S2098	Y2099	G2100	K2101	L2102	Y2103	D2104	E2105	N2106	L2107	N2108	A2109	G2110	E2111	A2114	L2117	R2118	A2119	S2120	A2121	A2122	G2123	L2124	T2125	A2126	T2127	V2128	Q2129	A2130	S2131	G2135	A2136	A2137	D2138	A2139	L2140	V2141	P2142	N2143	I2144	F2145	G2146	F2147	A2148	G2149	G2150	G2151	V2154	G2155	I2157	A2158		
E2159	M2165	E2166	F2167	S2168	A2169	R2170	M2171	M2172	M2173	A2176	D2177	K2178	I2179	E2183	T2184	R2185	G2186	R2187	R2188	R2189	W2192	E2193	I2194	Q2195	R2196	N2197	N2198	E2200	A2201	E2202	L2203	K2204	Q2205	I2206	D2207	Q2209	L2210	K2211	S2212	A2214	V2215	R2216	R2217	E2218	A2219	S2220	V2221	L2222	Q2223	K2224	S2236					
A2239	R2243	K2244	F2245	L2250	Y2251	N2252	W2253	L2254	L2258	F2263	Q2264	F2265	Y2266	R2272	C2273	E2277	Q2278	A2279	Y2280	R2281	W2282	E2283	L2284	N2285	D2286	D2287	S2288	A2289	R2290	F2291	L2292	K2293	W2297	Y2301	L2304	L2305	E2308	T2309	L2310	M2311	L2312	S2313	L2314	E2318	D2319	K2323										
R3324	R3327	A3328	L3329	E3330	V3331	E3332	R3333	T3334	L3337	D3347	N3348	D3358	K3359	L3360	V3361	S3362	Q3363	G3364	S3365	S3370	G3371	N3372	N3373	N3374	L3375	A3376	F3377	D3382	T3383	K3384	S3385	G3386	L3387	S3390	V3391	S3392	D3395	L3396	K3397	I3398	R3399	E3400	D3401	Y3402	P3403	A3404	S3405	L3406	G3407	K3408	I3409					











R2512	T2513	T2514	I2515	K2516	P2425	Y2426	Q2427	D2428	V2429	Q2430	S2434	Y2435	G2436	D2437	K2438	A2439	G2440	L2441	A2442	N2443	G2444	G2445	E2446	A2447	L2448	A2449	V2450	S2451	H2452	G2453	N2454	G2458	Q2459	F2460	Q2461	F2464	N2465	D2466	G2467	K2468	P2471	F2472	F2473	G2474	I2475	T2483	S2490	Q2497	M2500	L2501	K2502	T2503	L2504	L2509	T2334	L2337	D2347	N2348	D2358	K2359	L2360	Q2363	G2364	S2365	S2370	G2371	N2372	N2373	N2374	L2375	A2376	F2377	D2382	T2383	K2384	T2385	S2386	L2387	S2390	V2391	G2395	S2392	K2397	I2398	R2399	E2400	D2401	Y2402	P2403	A2404	S2405	L2406	G2407	K2408	I2409	R2410	I2411	L2412	K2413	V2417	T2418	L2419	P2420	L2423	G2424	R2252	W2253	L2254	L2258	F2263	Q2264	F2265	Y2266	R2272	C2273	E2277	Q2278	A2279	Y2280	R2281	W2282	E2283	L2284	W2285	I2286	D2287	S2288	A2289	R2290	F2291	I2292	K2293	F2294	G2295	A2296	W2297	Y2301	L2305	E2308	T2309	L2310	W2311	L2312	S2313	L2314	E2318	K2323	R2324	R2327	K2328	L2329	E2330	V2331	E2332	R2333
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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 (Å)	442.74002, 442.74002, 442.74002	wwPDB
Map dimensions	282, 282, 282	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.57, 1.57, 1.57	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	0.60	1/11313 (0.0%)	0.75	19/15367 (0.1%)
1	B	0.60	1/11313 (0.0%)	0.75	19/15367 (0.1%)
1	C	0.60	1/11313 (0.0%)	0.75	19/15367 (0.1%)
1	D	0.60	1/11313 (0.0%)	0.75	19/15367 (0.1%)
1	E	0.60	1/11313 (0.0%)	0.75	19/15367 (0.1%)
All	All	0.60	5/56565 (0.0%)	0.75	95/76835 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	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	-9.53	1.01	1.34
1	D	1830	ASP	C-N	-9.52	1.01	1.34
1	C	1830	ASP	C-N	-9.51	1.02	1.34
1	B	1830	ASP	C-N	-9.50	1.02	1.34
1	A	1830	ASP	C-N	-9.49	1.02	1.34

All (95) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1789	PHE	N-CA-C	10.81	123.06	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1789	PHE	N-CA-C	10.80	123.06	111.28
1	A	1789	PHE	N-CA-C	10.80	123.05	111.28
1	E	1789	PHE	N-CA-C	10.79	123.04	111.28
1	B	1789	PHE	N-CA-C	10.79	123.04	111.28
1	E	1660	TRP	N-CA-C	7.92	121.45	109.41
1	A	1660	TRP	N-CA-C	7.90	121.42	109.41
1	D	1660	TRP	N-CA-C	7.90	121.41	109.41
1	B	1660	TRP	N-CA-C	7.88	121.39	109.41
1	C	1660	TRP	N-CA-C	7.88	121.39	109.41
1	C	1975	SER	CB-CA-C	-7.11	106.50	115.89
1	A	1975	SER	CB-CA-C	-7.10	106.52	115.89
1	B	1975	SER	CB-CA-C	-7.10	106.52	115.89
1	D	1975	SER	CB-CA-C	-7.09	106.53	115.89
1	E	1975	SER	CB-CA-C	-7.09	106.54	115.89
1	D	1807	VAL	N-CA-C	6.57	117.09	107.37
1	E	1807	VAL	N-CA-C	6.55	117.06	107.37
1	A	1807	VAL	N-CA-C	6.54	117.04	107.37
1	C	1807	VAL	N-CA-C	6.54	117.04	107.37
1	B	1807	VAL	N-CA-C	6.51	117.00	107.37
1	C	1659	ARG	N-CA-C	6.44	124.51	110.80
1	A	1659	ARG	N-CA-C	6.43	124.50	110.80
1	D	1659	ARG	N-CA-C	6.43	124.49	110.80
1	E	1659	ARG	N-CA-C	6.43	124.49	110.80
1	B	1659	ARG	N-CA-C	6.42	124.47	110.80
1	D	93	ASN	N-CA-C	6.00	117.90	111.36
1	B	93	ASN	N-CA-C	5.99	117.89	111.36
1	E	93	ASN	N-CA-C	5.99	117.89	111.36
1	A	93	ASN	N-CA-C	5.99	117.89	111.36
1	C	93	ASN	N-CA-C	5.99	117.89	111.36
1	C	2100	GLY	N-CA-C	-5.94	105.60	112.73
1	A	2100	GLY	N-CA-C	-5.94	105.61	112.73
1	D	2100	GLY	N-CA-C	-5.93	105.61	112.73
1	B	2100	GLY	N-CA-C	-5.93	105.61	112.73
1	E	2100	GLY	N-CA-C	-5.91	105.64	112.73
1	D	2101	LYS	N-CA-C	-5.78	104.89	111.07
1	A	2101	LYS	N-CA-C	-5.76	104.91	111.07
1	C	212	GLN	N-CA-C	-5.75	105.01	111.28
1	E	2101	LYS	N-CA-C	-5.74	104.93	111.07
1	B	2101	LYS	N-CA-C	-5.73	104.94	111.07
1	B	212	GLN	N-CA-C	-5.73	105.04	111.28
1	C	2101	LYS	N-CA-C	-5.72	104.94	111.07
1	E	212	GLN	N-CA-C	-5.72	105.05	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	212	GLN	N-CA-C	-5.71	105.06	111.28
1	D	212	GLN	N-CA-C	-5.70	105.06	111.28
1	D	209	GLU	O-C-N	-5.67	115.29	122.27
1	A	209	GLU	O-C-N	-5.66	115.31	122.27
1	C	209	GLU	O-C-N	-5.66	115.31	122.27
1	E	209	GLU	O-C-N	-5.65	115.31	122.27
1	B	209	GLU	O-C-N	-5.61	115.37	122.27
1	D	2014	MET	N-CA-C	-5.50	105.14	113.51
1	E	2014	MET	N-CA-C	-5.50	105.15	113.51
1	A	2014	MET	N-CA-C	-5.49	105.17	113.51
1	B	2014	MET	N-CA-C	-5.48	105.19	113.51
1	C	2014	MET	N-CA-C	-5.47	105.19	113.51
1	A	962	LYS	CB-CA-C	-5.29	110.03	117.23
1	C	962	LYS	CB-CA-C	-5.28	110.04	117.23
1	D	906	MET	CB-CA-C	-5.27	110.06	117.23
1	D	962	LYS	CB-CA-C	-5.27	110.06	117.23
1	A	906	MET	CB-CA-C	-5.26	110.08	117.23
1	C	906	MET	CB-CA-C	-5.26	110.08	117.23
1	E	906	MET	CB-CA-C	-5.25	110.09	117.23
1	E	962	LYS	CB-CA-C	-5.25	110.10	117.23
1	B	962	LYS	CB-CA-C	-5.23	110.11	117.23
1	B	906	MET	CB-CA-C	-5.23	110.12	117.23
1	C	2141	VAL	CA-C-N	5.21	125.12	119.85
1	C	2141	VAL	C-N-CA	5.21	125.12	119.85
1	B	2141	VAL	CA-C-N	5.21	125.11	119.85
1	B	2141	VAL	C-N-CA	5.21	125.11	119.85
1	A	2141	VAL	CA-C-N	5.20	125.10	119.85
1	A	2141	VAL	C-N-CA	5.20	125.10	119.85
1	D	2141	VAL	CA-C-N	5.19	125.10	119.85
1	D	2141	VAL	C-N-CA	5.19	125.10	119.85
1	E	2141	VAL	CA-C-N	5.19	125.09	119.85
1	E	2141	VAL	C-N-CA	5.19	125.09	119.85
1	D	2015	SER	CB-CA-C	-5.14	109.67	115.79
1	C	2015	SER	CB-CA-C	-5.14	109.67	115.79
1	A	2015	SER	CB-CA-C	-5.14	109.68	115.79
1	B	2015	SER	CB-CA-C	-5.12	109.69	115.79
1	E	2015	SER	CB-CA-C	-5.10	109.72	115.79
1	E	2293	LYS	CA-C-N	-5.10	115.31	120.31
1	E	2293	LYS	C-N-CA	-5.10	115.31	120.31
1	B	2293	LYS	CA-C-N	-5.10	115.31	120.31
1	B	2293	LYS	C-N-CA	-5.10	115.31	120.31
1	B	2151	GLY	N-CA-C	-5.09	104.77	112.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2151	GLY	N-CA-C	-5.08	104.78	112.41
1	A	2293	LYS	CA-C-N	-5.08	115.33	120.31
1	A	2293	LYS	C-N-CA	-5.08	115.33	120.31
1	E	2151	GLY	N-CA-C	-5.07	104.81	112.41
1	D	2151	GLY	N-CA-C	-5.07	104.81	112.41
1	A	2151	GLY	N-CA-C	-5.07	104.81	112.41
1	D	2293	LYS	CA-C-N	-5.05	115.36	120.31
1	D	2293	LYS	C-N-CA	-5.05	115.36	120.31
1	C	2293	LYS	CA-C-N	-5.05	115.36	120.31
1	C	2293	LYS	C-N-CA	-5.05	115.36	120.31

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	1116	0
1	B	11083	0	10579	1116	0
1	C	11083	0	10579	1131	0
1	D	11083	0	10580	1143	0
1	E	11083	0	10579	1121	0
All	All	55415	0	52897	4295	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 40.

All (4295) 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
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:1623:THR:HA	1:E:1272:ASP:CG	1.47	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2117:LEU:CD2	1:E:2176:ALA:CB	2.03	1.37
1:C:1272:ASP:CG	1:D:1623:THR:HA	1.47	1.37
1:B:1272:ASP:CG	1:C:1623:THR:HA	1.48	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:A:2382:ASP:OD2	1:B:2403:PRO:CB	1.92	1.18
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:93:ASN:HD21	1:C:1894:PRO:HB3	1.03	1.13
1:B:1660:TRP:CD1	1:B:1661:PHE:H	1.66	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:A:1660:TRP:CD1	1:A:1661:PHE:H	1.67	1.12
1:C:1660:TRP:CD1	1:C:1661:PHE:H	1.66	1.12
1:E:1660:TRP:CD1	1:E:1661:PHE:H	1.66	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:D:1660:TRP:CD1	1:D:1661:PHE:H	1.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C	1:E:1272:ASP:OD1	1.96	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:C:1272:ASP:OD1	1:D:1622:ASP:C	2.00	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:B:1272:ASP:OD1	1:C:1622:ASP:C	1.97	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:2172:MET:HE1	1:C:2121:ALA:N	1.72	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:D:2172:MET:HE1	1:E:2121:ALA:N	1.72	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2172:MET:HE1	1:D:2121:ALA:N	1.74	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:A:2172:MET:HE1	1:B:2121:ALA:N	1.73	1.01
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2121:ALA:N	1:E:2172:MET:HE1	1.74	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2172:MET:HE1	1:B:2120:SER:C	1.95	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:2172:MET:HE1	1:E:2120:SER:C	1.95	0.90
1:C:1029:SER:CB	1:D:1872:GLU:OE2	2.20	0.89
1:B:2172:MET:HE1	1:C:2120:SER:C	1.96	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:2172:MET:HE1	1:D:2120:SER:C	1.97	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
1:D:2468:LYS:HD2	1:E:2327:ARG:NH1	1.90	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:2120:SER:C	1:E:2172:MET:HE1	1.99	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: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
1:E:95:GLN:O	1:E:97:SER:N	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
1:D:2103:TYR:CB	1:D:2196:ARG:NH1	2.41	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1103:ASN:HD21	1:D:1598:TRP:CD1	1.98	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:B:1103:ASN:HD21	1:B:1598:TRP:CD1	1.98	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:C:2468:LYS:CD	1:D:2327:ARG:NH1	2.44	0.80
1:E:1103:ASN:HD21	1:E:1598:TRP:CD1	1.98	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:2382:ASP:OD2	1:D:2403:PRO:C	2.25	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:2382:ASP:OD2	1:E:2403:PRO:C	2.24	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:C:1103:ASN:HD21	1:C:1598:TRP:CD1	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2278:GLN:OE1	1:B:2281:ARG:NH2	2.17	0.78
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:A:2403:PRO:C	1:E:2382:ASP:OD2	2.28	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:2172:MET:HE3	1:E:2121:ALA:N	2.00	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:A:2382:ASP:OD2	1:B:2403:PRO:C	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:D:100:ALA:HB1	1:D:1950:PRO:HG3	1.67	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: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:A:2172:MET:HE3	1:B:2121:ALA:N	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:1103:ASN:HD21	1:A:1598:TRP:CD1	1.98	0.75
1:B:2382:ASP:OD2	1:C:2403:PRO:C	2.29	0.75
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: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: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:2172:MET:HE3	1:D:2121:ALA:N	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:C:1242:GLU:CB	1:D:1806:ILE:HG23	2.18	0.73
1:B:2172:MET:HE3	1:C:2121:ALA:N	2.01	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:1841:ALA:O	1:A:1842:GLN:HB2	1.88	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2079:ASP:OD1	1:A:2217:ARG:NH1	2.22	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
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:93:ASN:CG	1:C:1894:PRO:HB3	2.15	0.72
1:C:1660:TRP:CD2	1:C:1680:GLN:CA	2.73	0.72
1:D:93:ASN:CG	1:D:1894:PRO:HB3	2.15	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:2172:MET:C	1:C:2117:LEU:HD21	2.14	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:A:93:ASN:CG	1:A:1894:PRO:HB3	2.15	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2121:ALA:N	1:E:2172:MET:HE3	2.04	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:A:2117:LEU:HD21	1:E:2172:MET:C	2.15	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:93:ASN:CG	1:B:1894:PRO:HB3	2.15	0.71
1:B:1002:GLU:OE1	1:C:1881:MET:HE2	1.90	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
1:C:2172:MET:C	1:D:2117:LEU:HD21	2.16	0.71
1:D:1041:PRO:HD2	1:D:1847:HIS:CD2	2.26	0.71
1:D:2172:MET:C	1:E:2117:LEU:HD21	2.14	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:A:1881:MET:HE2	1:E:1002:GLU:OE1	1.90	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:A:2172:MET:C	1:B:2117:LEU:HD21	2.15	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:93:ASN:CG	1:E:1894:PRO:HB3	2.15	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:C:2102:LEU:HB3	1:C:2192:TRP:CE3	2.25	0.70
1:C:2382:ASP:CG	1:D:2404:ALA:H	1.98	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:1787:GLN:HB2	1:D:2011:GLU:CD	2.17	0.70
1:D:2382:ASP:CG	1:E:2404:ALA:H	1.99	0.70
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: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:C:1787:GLN:HB2	1:C:2011:GLU:CD	2.17	0.69
1:E:1787:GLN:HB2	1:E:2011:GLU:CD	2.17	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:C:2172:MET:HE3	1:D:2121:ALA:HB2	1.75	0.69
1:D:2094:SER:O	1:D:2098:SER:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2102:LEU:HB3	1:D:2192:TRP:CE3	2.25	0.69
1:A:2036:PHE:CE1	1:B:2308:GLU:CD	2.71	0.69
1:B:1600:SER:HB3	1:B:1674:HIS:CE1	2.26	0.69
1:B:2172:MET:HE3	1:C:2121:ALA:HB2	1.74	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:C:2036:PHE:CE1	1:D:2308:GLU:CD	2.69	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:A:1623:THR:CA	1:E:1272:ASP:CG	2.43	0.69
1:B:1787:GLN:HB2	1:B:2011:GLU:CD	2.17	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
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:1002:GLU:OE1	1:B:1881:MET:HE2	1.93	0.69
1:A:1787:GLN:HB2	1:A:2011:GLU:CD	2.17	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:D:2172:MET:HE3	1:E:2121:ALA:HB2	1.74	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:A:2382:ASP:CG	1:B:2404:ALA:H	2.00	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2036:PHE:CE1	1:E:2308:GLU:CD	2.71	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:A:1878:GLU:CD	1:E:1026:LYS:HZ3	2.00	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:C:1103:ASN:HD22	1:C:1598:TRP:CD1	2.11	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:C:1002:GLU:OE1	1:D:1881:MET:HE2	1.94	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:1103:ASN:HD22	1:A:1598:TRP:CD1	2.11	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
1:B:1103:ASN:HD22	1:B:1598:TRP:CD1	2.11	0.68
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:1272:ASP:CG	1:D:1623:THR:CA	2.43	0.68
1:C:2176:ALA:CB	1:D:2117:LEU:HD13	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:2036:PHE:CE1	1:C:2308:GLU:CD	2.72	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:2072:ASP:OD1	1:C:2224:LYS:HE2	1.94	0.67
1:D:1002:GLU:OE1	1:E:1881:MET:HE2	1.94	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:A:2121:ALA:HB2	1:E:2172:MET:HE3	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: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:A:2308:GLU:CD	1:E:2036:PHE:CE1	2.73	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:B:2382:ASP:CG	1:C:2404:ALA:H	2.03	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:2329:LEU:HD22	1:E:2447:ALA:HB3	1.77	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: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
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:A:2404:ALA:H	1:E:2382:ASP:CG	2.02	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:E:2123:GLY:O	1:E:2126:THR:OG1	2.06	0.66
1:A:184:LYS:O	1:A:188:MET:CB	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1657:ASP:HA	1:B:1713:LYS:HD2	1.77	0.66
1:D:136:TYR:HE2	1:D:1006:GLU:H	1.43	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: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:E:1103:ASN:HD22	1:E:1598:TRP:CD1	2.11	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
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: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: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:A:1622:ASP:O	1:E:1272:ASP:CG	2.38	0.65
1:A:2172:MET:HE3	1:B:2121:ALA:HB2	1.77	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:C:1824:ASP:O	1:C:1825:THR:OG1	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1737:PRO:HB3	1:D:1741:LEU:HD13	1.77	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:B:1872:GLU:O	1:B:1875:THR:OG1	2.15	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:1044:TYR:CZ	1:D:1992:PRO:CB	2.80	0.65
1:C:1872:GLU:O	1:C:1875:THR:OG1	2.15	0.65
1:D:981:ILE:HD11	1:E:1973:ASN:HB2	1.78	0.65
1:D:1026:LYS:HZ3	1:E:1878:GLU:CD	2.04	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: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
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: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:E:1103:ASN:HD21	1:E:1598:TRP:CG	2.15	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: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: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:D:1272:ASP:CG	1:E:1622:ASP:O	2.40	0.64
1:A:2258:LEU:CB	1:B:2305:LEU:HD21	2.21	0.64
1:D:1044:TYR:CZ	1:E:1992:PRO:CB	2.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:1103:ASN:HD22	1:D:1598:TRP:CD1	2.11	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:B:1272:ASP:CG	1:C:1622:ASP:O	2.40	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:1774:TYR:OH	1:C:1848:TYR:OH	2.01	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:1272:ASP:CG	1:B:1622:ASP:O	2.40	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:B:1272:ASP:CG	1:C:1623:THR:CA	2.43	0.64
1:C:1103:ASN:HD21	1:C:1598:TRP:CG	2.15	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
1:C:1286:TYR:O	1:C:1290:SER:OG	2.15	0.64
1:D:1072:ASP:OD1	1:D:1072:ASP:N	2.28	0.64
1:D:1103:ASN:HD21	1:D:1598:TRP:CG	2.15	0.64
1:D:1872:GLU:O	1:D:1875:THR:OG1	2.15	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:1103:ASN:HD21	1:A:1598:TRP:CG	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:B:1103:ASN:HD21	1:B:1598:TRP:CG	2.15	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: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
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:2172:MET:HE1	1:E:2121:ALA:CA	2.26	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:D:1598:TRP:CD1	1:D:1599:GLN:H	2.17	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:B:1598:TRP:CD1	1:B:1599:GLN:H	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:1598:TRP:CD1	1:E:1599:GLN:H	2.17	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:C:974:ASP:OD2	1:D:1880:LYS:NZ	2.23	0.62
1:C:1598:TRP:CD1	1:C:1599:GLN:H	2.17	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:2183:GLU:CD	1:B:2111:GLU:CG	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:C:1272:ASP:CG	1:D:1622:ASP:O	2.43	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: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:1286:TYR:O	1:B:1290:SER:OG	2.15	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1598:TRP:CD1	1:A:1599:GLN:H	2.17	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:C:1103:ASN:HD21	1:C:1598:TRP:NE1	1.97	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:C:2434:SER:OG	1:C:2435:TYR:N	2.32	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:B:115:PRO:HG2	1:C:1986:TYR:CD1	2.36	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
1:A:2173:ASN:CA	1:B:2117:LEU:HD21	2.31	0.60
1:D:152:GLN:HE21	1:D:156:ASP:CG	2.10	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:152:GLN:HE21	1:E:156:ASP:CG	2.10	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:152:GLN:HE21	1:C:156:ASP:CG	2.10	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:D:2183:GLU:CD	1:E:2111:GLU:CG	2.75	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1103:ASN:HD21	1:B:1598:TRP:NE1	1.97	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:1204:ARG:HH21	1:D:1210:ASN:CG	2.10	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:2284:LEU:HD21	1:A:2324:ARG:HB2	1.85	0.59
1:B:152:GLN:HE21	1:B:156:ASP:CG	2.10	0.59
1:C:1204:ARG:NH2	1:C:1210:ASN:HD21	2.00	0.59
1:C:2172:MET:HE1	1:D:2121:ALA:CA	2.27	0.59
1:D:1774:TYR:OH	1:D:1848:TYR:OH	2.01	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: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:152:GLN:HE21	1:A:156:ASP:CG	2.10	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:974:ASP:OD2	1:C:1880:LYS:NZ	2.22	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:C:2183:GLU:CD	1:D:2111:GLU:CG	2.75	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:2172:MET:HE1	1:C:2121:ALA:CA	2.26	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:95:GLN:O	1:A:96:PHE:C	2.46	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
1:A:2330:GLU:HG3	1:A:2514:THR:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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: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:E:1204:ARG:HH21	1:E:1210:ASN:CG	2.10	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:C:1204:ARG:HH21	1:C:1210:ASN:CG	2.10	0.58
1:D:2208:ALA:HB1	1:E:2084:VAL:CG2	2.32	0.58
1:E:95:GLN:O	1:E:96:PHE:C	2.46	0.58
1:A:1218:ASN:O	1:A:1222:SER:CB	2.51	0.58
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1204:ARG:HH21	1:B:1210:ASN:CG	2.10	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:1103:ASN:HD21	1:E:1598:TRP:NE1	1.97	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:1026:LYS:HZ3	1:C:1878:GLU:CD	2.12	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:1026:LYS:NZ	1:E:1878:GLU:CD	2.62	0.58
1:D:1832:LEU:HG	1:D:1833:ASP:H	1.68	0.58
1:D:2204:LYS:C	1:E:2087:LYS:HG2	2.28	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:1204:ARG:HH21	1:A:1210:ASN:CG	2.10	0.58
1:A:1961:GLN:O	1:A:1965:GLN:HG2	2.04	0.58
1:B:95:GLN:O	1:B:96:PHE:C	2.46	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:B:2183:GLU:CD	1:C:2111:GLU:CG	2.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1103:ASN:HD21	1:A:1598:TRP:NE1	1.97	0.57
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
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: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:2121:ALA:CA	1:E:2172:MET:HE1	2.28	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:2111:GLU:CG	1:E:2183:GLU:CD	2.78	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:2106:ASN:C	1:C:2107:ILE:CG1	2.78	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1961:GLN:O	1:C:1965:GLN:HG2	2.04	0.57
1:D:95:GLN:O	1:D:96:PHE:C	2.46	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
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:2194:ILE:HD11	1:B:2098:SER:HG	1.68	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:1598:TRP:CG	1:B:1599:GLN:H	2.23	0.57
1:B:1837:PRO:HG3	1:C:1996:LEU:HD12	1.85	0.57
1:B:2172:MET:CE	1:C:2121:ALA:HB2	2.33	0.57
1:C:95:GLN:O	1:C:96:PHE:C	2.46	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:B:2172:MET:HE3	1:C:2121:ALA:CB	2.34	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: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:1103:ASN:HD21	1:D:1598:TRP:NE1	1.97	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:1026:LYS:HZ3	1:B:1878:GLU:CD	2.12	0.56
1:A:1878:GLU:CD	1:E:1026:LYS:NZ	2.63	0.56
1:A:2087:LYS:HG2	1:E:2204:LYS:C	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2106:ASN:C	1:A:2107:ILE:CG1	2.78	0.56
1:A:2117:LEU:CD1	1:E:2176:ALA:CB	2.76	0.56
1:A:2204:LYS:C	1:B:2087:LYS:HG2	2.27	0.56
1:B:2204:LYS:C	1:C:2087:LYS:HG2	2.30	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:2106:ASN:C	1:C:2107:ILE:HG12	2.31	0.56
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:D:2106:ASN:C	1:D:2107:ILE:HG12	2.31	0.56
1:D:2172:MET:HE3	1:E:2121:ALA:CB	2.34	0.56
1:E:1660:TRP:HD1	1:E:1661:PHE:C	2.13	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:1660:TRP:HD1	1:A:1661:PHE:C	2.13	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:1026:LYS:NZ	1:D:1878:GLU:CD	2.63	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:D:2106:ASN:C	1:D:2107:ILE:CG1	2.78	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: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:2106:ASN:C	1:B:2107:ILE:CG1	2.78	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:A:141:ARG:HH22	1:A:1005:GLU:CD	2.14	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1660:TRP:HD1	1:D:1661:PHE:C	2.13	0.56
1:D:2419:LEU:HD12	1:D:2429:VAL:HG11	1.88	0.56
1:E:141:ARG:HH22	1:E:1005:GLU:CD	2.14	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:141:ARG:HH22	1:B:1005:GLU:CD	2.14	0.56
1:B:1841:ALA:O	1:B:1842:GLN:CB	2.53	0.56
1:C:141:ARG:HH22	1:C:1005:GLU:CD	2.14	0.56
1:C:1598:TRP:CG	1:C:1599:GLN:H	2.23	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:A:1598:TRP:CG	1:A:1599:GLN:H	2.23	0.56
1:B:1660:TRP:HD1	1:B:1661:PHE:C	2.13	0.56
1:C:1736:ASN:HB3	1:C:1738:LYS:NZ	2.20	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
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:E:2106:ASN:C	1:E:2107:ILE:CG1	2.78	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:1660:TRP:HD1	1:C:1661:PHE:C	2.13	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:C:2172:MET:HE3	1:D:2121:ALA:CB	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:1057:MET:HE2	1:D:1770:GLU:HB3	1.88	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: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: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: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2187:ARG:NH1	1:B:2108:ASN:CG	2.64	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:2106:ASN:C	1:B:2107:ILE:HG12	2.31	0.55
1:B:2216:ARG:HA	1:C:2077:GLU:OE1	2.05	0.55
1:B:2404:ALA:C	1:B:2406:LEU:H	2.14	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:1598:TRP:CG	1:D:1599:GLN:H	2.23	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:E:1057:MET:HE2	1:E:1770:GLU:HB3	1.88	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
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:1026:LYS:NZ	1:C:1878:GLU:CD	2.65	0.55
1:B:1760:PHE:HD2	1:B:1820:PRO:CG	2.20	0.55
1:B:2172:MET:HE3	1:C:2117:LEU:O	2.06	0.55
1:B:2281:ARG:NH1	1:B:2290:ARG:HH21	2.04	0.55
1:C:2404:ALA:C	1:C:2406:LEU:H	2.15	0.55
1:D:141:ARG:HH22	1:D:1005:GLU:CD	2.14	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:1598:TRP:CG	1:E:1599:GLN:H	2.23	0.55
1:E:1760:PHE:HD2	1:E:1820:PRO:CG	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:2121:ALA:CB	1:E:2172:MET:HE3	2.36	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:E:2106:ASN:C	1:E:2107:ILE:HG12	2.31	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:2108:ASN:CG	1:E:2187:ARG:NH1	2.65	0.55
1:A:2183:GLU:CD	1:B:2111:GLU:HG2	2.32	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:C:1015:ARG:HA	1:C:1105:GLN:OE1	2.07	0.55
1:D:2194:ILE:HD11	1:E:2098:SER:HG	1.70	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:2106:ASN:C	1:A:2107:ILE:HG12	2.31	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:C:1057:MET:HE2	1:C:1770:GLU:HB3	1.88	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:A:1057:MET:HE2	1:A:1770:GLU:HB3	1.88	0.54
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
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:1026:LYS:NZ	1:B:1878:GLU:CD	2.65	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:2117:LEU:O	1:E:2172:MET:HE3	2.07	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:D:1137:ALA:C	1:D:1139:ASN:H	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:92:TYR:C	1:D:92:TYR:CD2	2.86	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:E:2404:ALA:C	1:E:2406:LEU:H	2.15	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:1137:ALA:C	1:C:1139:ASN:H	2.15	0.54
1:C:2187:ARG:NH1	1:D:2108:ASN:CG	2.65	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:D:2404:ALA:C	1:D:2406:LEU:H	2.15	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
1:C:964:ARG:O	1:C:967:LEU:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1097:TYR:CD1	1:C:1303:ASN:HB2	2.43	0.54
1:C:1132:ASN:HD21	1:C:1830:ASP:CG	2.16	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:1132:ASN:HD21	1:A:1830:ASP:CG	2.16	0.54
1:A:2348:ASN:HB3	1:A:2370:SER:HB2	1.89	0.54
1:A:2404:ALA:C	1:A:2406:LEU:H	2.15	0.54
1:B:1029:SER:HA	1:C:1989:PRO:HA	1.89	0.54
1:B:1057:MET:HE2	1:B:1770:GLU:HB3	1.88	0.54
1:B:1137:ALA:C	1:B:1139:ASN:H	2.15	0.54
1:C:92:TYR:C	1:C:92:TYR:CD2	2.86	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:1041:PRO:O	1:A:1045:ILE:HG12	2.08	0.54
1:A:1137:ALA:C	1:A:1139:ASN:H	2.15	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: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:2187:ARG:NH1	1:E:2108:ASN:CG	2.66	0.54
1:D:2382:ASP:O	1:D:2383:THR:OG1	2.18	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:92:TYR:C	1:A:92:TYR:CD2	2.85	0.54
1:A:1760:PHE:HD2	1:A:1820:PRO:CG	2.20	0.54
1:A:2183:GLU:OE2	1:B:2111:GLU:CD	2.50	0.54
1:B:92:TYR:C	1:B:92:TYR:CD2	2.86	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2204:LYS:C	1:D:2087:LYS:HG2	2.30	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:E:1137:ALA:C	1:E:1139:ASN:H	2.15	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
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:C:2194:ILE:HD11	1:D:2098:SER:HG	1.70	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:148:MET:HE1	1:A:989:ALA:HB2	1.90	0.53
1:A:1795:TRP:HA	1:A:1798:TYR:HD2	1.72	0.53
1:A:2172:MET:HE3	1:B:2121:ALA:CB	2.37	0.53
1:A:2409:ILE:HG13	1:A:2516:LYS:HB2	1.91	0.53
1:A:2429:VAL:HG22	1:A:2500:MET:HE1	1.90	0.53
1:B:148:MET:HE1	1:B:989:ALA:HB2	1.90	0.53
1:B:1078:PHE:CE1	1:B:1771:LEU:HG	2.42	0.53
1:C:148:MET:HE1	1:C:989:ALA:HB2	1.90	0.53
1:D:1675:ILE:H	1:D:1675:ILE:HD12	1.73	0.53
1:D:2429:VAL:HG22	1:D:2500:MET:HE1	1.91	0.53
1:E:1041:PRO:O	1:E:1045:ILE:HG12	2.08	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: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:E:148:MET:HE1	1:E:989:ALA:HB2	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2409:ILE:HG13	1:D:2516:LYS:HB2	1.91	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:2172:MET:HE3	1:B:2117:LEU:O	2.09	0.53
1:A:2423:LEU:HD22	1:A:2429:VAL:HG23	1.91	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:1269:ILE:C	1:D:1808:HIS:HE1	2.15	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: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:D:2183:GLU:CD	1:E:2111:GLU:HG2	2.34	0.53
1:E:2409:ILE:HG13	1:E:2516:LYS:HB2	1.91	0.53
1:A:2016:LEU:CD1	1:B:2327:ARG:HB2	2.39	0.53
1:B:92:TYR:CD1	1:B:1956:MET:HE2	2.44	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:148:MET:HE1	1:D:989:ALA:HB2	1.90	0.53
1:D:1825:THR:HG22	1:D:1849:LYS:HZ2	1.72	0.53
1:D:2172:MET:HE3	1:E:2117:LEU:O	2.08	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:92:TYR:CD1	1:A:1956:MET:HE2	2.44	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:B:1739:SER:OG	1:B:1740:ILE:N	2.39	0.53
1:B:2358:ASP:O	1:B:2362:SER:OG	2.22	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:92:TYR:CD1	1:E:1956:MET:HE2	2.44	0.53
1:E:1091:LEU:HD21	1:E:1122:TYR:HD2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1739:SER:OG	1:E:1740:ILE:N	2.39	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:2374:ASN:N	1:B:2374:ASN:OD1	2.40	0.53
1:C:92:TYR:CD1	1:C:1956:MET:HE2	2.44	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:92:TYR:C	1:E:92:TYR:CD2	2.86	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:B:1787:GLN:OE1	1:B:2011:GLU:CD	2.52	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:1269:ILE:C	1:E:1808:HIS:HE1	2.16	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
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:B:2429:VAL:HG22	1:B:2500:MET:HE1	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: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:B:1132:ASN:HD21	1:B:1830:ASP:CG	2.16	0.53
1:C:1787:GLN:OE1	1:C:2011:GLU:CD	2.52	0.53
1:C:2014:MET:HA	1:C:2278:GLN:HG3	1.91	0.53
1:D:2014:MET:HA	1:D:2278:GLN:HG3	1.90	0.53
1:E:1132:ASN:HD21	1:E:1830:ASP:CG	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1787:GLN:OE1	1:A:2011:GLU:CD	2.52	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:C:1641:PHE:CE2	1:C:1643:ALA:HB2	2.44	0.52
1:C:2183:GLU:CD	1:D:2111:GLU:HG2	2.34	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
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:195:SER:C	1:B:952:ARG:HH22	2.17	0.52
1:B:961:ILE:HG23	1:B:962:LYS:H	1.73	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:195:SER:C	1:C:952:ARG:HH22	2.17	0.52
1:C:1026:LYS:HZ3	1:D:1878:GLU:CD	2.18	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:1132:ASN:HD21	1:D:1830:ASP:CG	2.16	0.52
1:D:1787:GLN:OE1	1:D:2011:GLU:CD	2.52	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:1787:GLN:OE1	1:E:2011:GLU:CD	2.52	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:2122:ALA:O	1:A:2125:THR:OG1	2.26	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:1269:ILE:C	1:B:1808:HIS:HE1	2.17	0.52
1:A:2222:LEU:HD11	1:B:2073:LYS:HE2	1.90	0.52
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:C:2429:VAL:HG22	1:C:2500:MET:HE1	1.91	0.52
1:D:1641:PHE:CE2	1:D:1643:ALA:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2029:MET:HE3	1:D:2272:ARG:HD2	1.92	0.52
1:E:2429:VAL:HG22	1:E:2500:MET:HE1	1.91	0.52
1:A:1666:LYS:HD2	1:A:1708:TYR:HE1	1.74	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:116:ALA:O	1:B:120:THR:OG1	2.25	0.52
1:B:125:GLU:HG3	1:B:1017:PHE:CD1	2.45	0.52
1:B:2172:MET:HE3	1:C:2121:ALA:H	1.74	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:C:2172:MET:HE3	1:D:2117:LEU:O	2.09	0.52
1:D:92:TYR:CD1	1:D:1956:MET:HE2	2.44	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:E:162:LEU:HD22	1:E:977:VAL:O	2.10	0.52
1:E:195:SER:C	1:E:952:ARG:HH22	2.17	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: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:2122:ALA:O	1:E:2125:THR:OG1	2.26	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:B:2187:ARG:NH1	1:C:2108:ASN:CG	2.67	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2172:MET:HE3	1:B:2121:ALA:H	1.74	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:2029:MET:HE3	1:B:2272:ARG:HD2	1.92	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: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:2122:ALA:O	1:D:2125:THR:OG1	2.26	0.52
1:D:2460:PHE:CZ	1:E:2330:GLU:CG	2.92	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: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: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:195:SER:C	1:D:952:ARG:HH22	2.17	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:MET:SD	1:A:986:ILE:HG22	2.50	0.51
1:A:2172:MET:HE1	1:B:2121:ALA:CA	2.29	0.51
1:B:2194:ILE:HG21	1:C:2099:TYR:CE1	2.45	0.51
1:C:2029:MET:HE3	1:C:2272:ARG:HD2	1.92	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: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: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:1002:GLU:CG	1:B:1882:TRP:CH2	2.66	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:1808:HIS:HE1	1:E:1269:ILE:C	2.18	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: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:2183:GLU:OE2	1:E:2111:GLU:CD	2.52	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:195:SER:C	1:A:952:ARG:HH22	2.17	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1723:PRO:HD3	1:B:1744:PHE:HE2	1.75	0.51
1:B:2194:ILE:HD11	1:C:2098:SER:HG	1.70	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:1651:ASN:C	1:D:1653:SER:H	2.19	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:B:2089:LYS:HB2	1:B:2206:ILE:HG21	1.92	0.51
1:B:2183:GLU:OE2	1:C:2111:GLU:CD	2.54	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:C:2183:GLU:OE2	1:D:2111:GLU:CD	2.53	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: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:968:TYR:HD1	1:D:973:ILE:C	2.19	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
1:E:1644:THR:HA	1:E:1689:THR:HA	1.93	0.51
1:A:1651:ASN:C	1:A:1653:SER:H	2.19	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:1269:ILE:C	1:D:1808:HIS:CE1	2.86	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:968:TYR:HD1	1:E:973:ILE:C	2.19	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:B:1800:TRP:CD1	1:B:1816:TRP:CE2	2.99	0.51
1:B:2122:ALA:O	1:B:2125:THR:OG1	2.26	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:1055:LYS:H	1:A:1143:GLU:CD	2.19	0.51
1:A:1594:GLN:H	1:A:1606:ASN:CG	2.19	0.51
1:A:1660:TRP:CH2	1:A:1680:GLN:HB3	2.36	0.51
1:A:2029:MET:HE3	1:A:2272:ARG:HD2	1.92	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:1594:GLN:H	1:B:1606:ASN:CG	2.19	0.51
1:B:1651:ASN:C	1:B:1653:SER:H	2.19	0.51
1:B:1864:GLY:O	1:B:1868:TYR:HB2	2.11	0.51
1:B:2183:GLU:CD	1:C:2111:GLU:HG2	2.36	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:1269:ILE:C	1:C:1808:HIS:HE1	2.18	0.50
1:B:2018:ARG:HG2	1:B:2467:GLY:O	2.11	0.50
1:B:2172:MET:HE3	1:C:2121:ALA:CA	2.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:214:GLN:O	1:E:215:ASP:C	2.54	0.50
1:E:1097:TYR:CD2	1:E:1162:ILE:HD12	2.46	0.50
1:A:968:TYR:HD1	1:A:973:ILE:C	2.19	0.50
1:A:1226:LEU:HD12	1:A:1227:GLU:N	2.26	0.50
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: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:2029:MET:HE3	1:E:2272:ARG:HD2	1.92	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:B:1055:LYS:H	1:B:1143:GLU:CD	2.19	0.50
1:B:1097:TYR:CD2	1:B:1162:ILE:HD12	2.46	0.50
1:C:968:TYR:HD1	1:C:973:ILE:C	2.19	0.50
1:C:1055:LYS:H	1:C:1143:GLU:CD	2.20	0.50
1:C:1800:TRP:CD1	1:C:1816:TRP:CE2	2.99	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:1651:ASN:C	1:E:1653:SER:H	2.19	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1800:TRP:CD1	1:D:1816:TRP:CE2	2.99	0.50
1:A:1269:ILE:C	1:B:1808:HIS:CE1	2.88	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
1:A:2399:ARG:HE	1:A:2410:ARG:HH11	1.58	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: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: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:2111:GLU:CG	1:E:2183:GLU:OE2	2.59	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:1651:ASN:C	1:C:1653:SER:H	2.19	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:116:ALA:O	1:D:120:THR:OG1	2.25	0.50
1:D:1594:GLN:H	1:D:1606:ASN:CG	2.19	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:1055:LYS:H	1:D:1143:GLU:CD	2.20	0.50
1:D:1245:LEU:HB3	1:D:1269:ILE:HB	1.92	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2018:ARG:HG2	1:A:2467:GLY:O	2.11	0.50
1:A:2111:GLU:HG2	1:E:2183:GLU:CD	2.37	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
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:E:1055:LYS:H	1:E:1143:GLU:CD	2.19	0.50
1:E:1594:GLN:H	1:E:1606:ASN:CG	2.19	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: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:116:ALA:O	1:A:120:THR:OG1	2.25	0.49
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:C:118:TYR:OH	1:C:1025:ASN:O	2.27	0.49
1:C:1594:GLN:H	1:C:1606:ASN:CG	2.19	0.49
1:C:1841:ALA:C	1:C:1843:HIS:N	2.70	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:1133:ASP:O	1:E:1135:LYS:N	2.46	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
1:D:214:GLN:O	1:D:215:ASP:C	2.54	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:B:1841:ALA:C	1:B:1843:HIS:N	2.70	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:2331:VAL:HG11	1:C:2402:TYR:HE2	1.76	0.49
1:D:1841:ALA:C	1:D:1843:HIS:N	2.70	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:1841:ALA:C	1:A:1843:HIS:N	2.70	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:2205:GLN:N	1:C:2087:LYS:CG	2.74	0.49
1:C:2215:VAL:O	1:C:2218:GLU:HB3	2.13	0.49
1:D:2245:PHE:CD2	1:E:2044:ILE:HG21	2.47	0.49
1:E:1103:ASN:HD22	1:E:1598:TRP:NE1	2.10	0.49
1:E:1646:VAL:HG22	1:E:1687:ASN:HA	1.95	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: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:2111:GLU:CD	1:E:2183:GLU:OE2	2.55	0.49
1:A:2365:SER:HA	1:A:2377:PHE:CD2	2.48	0.49
1:B:112:MET:HE1	1:B:1039:TYR:CD1	2.48	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
1:C:1160:PRO:HA	1:C:1169:LEU:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1100:ASN:OD1	1:D:1101:ILE:N	2.46	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:112:MET:HE1	1:A:1039:TYR:CD1	2.48	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:2121:ALA:H	1:E:2172:MET:HE3	1.78	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:E:112:MET:HE1	1:E:1039:TYR:CD1	2.48	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:968:TYR:HD1	1:B:973:ILE:C	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:112:MET:HE1	1:C:1039:TYR:CD1	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:2172:MET:HE3	1:D:2121:ALA:H	1.76	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:E:2018:ARG:HG2	1:E:2467:GLY:C	2.38	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:A:2018:ARG:HG2	1:A:2467:GLY:C	2.38	0.48
1:B:214:GLN:O	1:B:215:ASP:C	2.54	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:1884:MET:HE1	1:C:1971:ARG:NH1	2.28	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:1884:MET:HE1	1:D:1971:ARG:NH1	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1884:MET:HE1	1:E:1971:ARG:NH1	2.28	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:B:2018:ARG:HG2	1:B:2467:GLY:C	2.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1841:ALA:C	1:E:1843:HIS:N	2.70	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
1:B:1884:MET:HE1	1:B:1971:ARG:NH1	2.28	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:2018:ARG:HG2	1:D:2467:GLY:C	2.38	0.48
1:D:2253:TRP:CE2	1:E:2301:TYR:CE2	3.02	0.48
1:D:2358:ASP:O	1:D:2362:SER:OG	2.22	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: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:E:1884:MET:HE1	1:E:1971:ARG:HH11	1.79	0.48
1:A:1884:MET:HE1	1:A:1971:ARG:HH11	1.79	0.48
1:A:2425:PRO:HA	1:A:2426:TYR:HA	1.56	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:112:MET:HE1	1:D:1039:TYR:CD1	2.48	0.48
1:D:1893:LYS:HB2	1:D:1960:TRP:CD1	2.49	0.48
1:D:2216:ARG:CA	1:E:2077:GLU:OE1	2.60	0.48
1:D:2468:LYS:HD3	1:E:2327:ARG:HH11	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1884:MET:HE1	1:A:1971:ARG:NH1	2.28	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:2018:ARG:HG2	1:C:2467:GLY:C	2.38	0.48
1:C:2179:ILE:HG21	1:D:2114:ALA:H	1.75	0.48
1:C:2253:TRP:CE2	1:D:2301:TYR:CD2	3.02	0.48
1:D:1616:ARG:HD3	1:D:1629:THR:HG23	1.96	0.48
1:D:2014:MET:HE3	1:D:2014:MET:HB2	1.68	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: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:1711:PHE:H	1:D:1715:PRO:HG3	1.78	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:1002:GLU:CG	1:D:1882:TRP:CH2	2.68	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:1841:ALA:C	1:C:1843:HIS:H	2.22	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:2155:GLY:O	1:E:2159:GLU:HG3	2.14	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:1098:HIS:HB3	1:B:1304:ASN:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2459:GLN:HE22	1:B:2471:PRO:CD	2.24	0.47
1:C:214:GLN:O	1:C:215:ASP:C	2.54	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:1588:HIS:HD2	1:D:1594:GLN:HG2	1.79	0.47
1:D:2026:ALA:O	1:D:2029:MET:HB3	2.14	0.47
1:D:2172:MET:HE3	1:E:2121:ALA:H	1.74	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:1841:ALA:C	1:E:1843:HIS:H	2.22	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:B:1841:ALA:C	1:B:1843:HIS:H	2.22	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:1884:MET:HE1	1:D:1971:ARG:HH11	1.79	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:1893:LYS:HB2	1:A:1960:TRP:CD1	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:1841:ALA:C	1:A:1843:HIS:H	2.22	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:1808:HIS:CE1	1:E:1269:ILE:C	2.89	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: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: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:1103:ASN:HD22	1:D:1598:TRP:NE1	2.10	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1884:MET:HE1	1:B:1971:ARG:HH11	1.79	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:2460:PHE:CE2	1:C:2330:GLU:HG3	2.44	0.47
1:C:116:ALA:O	1:C:120:THR:OG1	2.25	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
1:C:1884:MET:HE1	1:C:1971:ARG:HH11	1.79	0.47
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:118:TYR:OH	1:E:1025:ASN:O	2.27	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:118:TYR:OH	1:B:1025:ASN:O	2.27	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:2122:ALA:O	1:C:2125:THR:OG1	2.26	0.47
1:C:2155:GLY:O	1:C:2159:GLU:HG3	2.14	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:1841:ALA:C	1:D:1843:HIS:H	2.22	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:1878:GLU:OE1	1:E:1026:LYS:NZ	2.46	0.47
1:A:2077:GLU:OE1	1:E:2216:ARG:CA	2.63	0.47
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:1854:MET:HE3	1:D:1959:TYR:HE2	1.80	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: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:2253:TRP:CE2	1:E:2301:TYR:CD2	3.03	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:B:2382:ASP:O	1:B:2383:THR:OG1	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1660:TRP:HD1	1:D:1661:PHE:CA	2.25	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:1026:LYS:NZ	1:C:1878:GLU:OE1	2.48	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
1:C:981:ILE:HD12	1:D:1973:ASN:HB2	1.96	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:D:2382:ASP:CG	1:E:2403:PRO:HA	2.38	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:1809:GLY:C	1:A:1810:GLN:O	2.59	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:2500:MET:O	1:B:2503:THR:N	2.48	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:2187:ARG:NH1	1:D:2108:ASN:OD1	2.48	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1827:TRP:HZ3	1:B:1847:HIS:NE2	2.12	0.46
1:B:1854:MET:HE3	1:B:1959:TYR:HE2	1.80	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
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: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: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: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:C:1854:MET:HE3	1:C:1959:TYR:HE2	1.80	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:1809:GLY:C	1:E:1810:GLN:O	2.59	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: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:1854:MET:HE3	1:A:1959:TYR:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:B:1107:LEU:HD23	1:B:1109:TYR:HE1	1.81	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: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:C:2358:ASP:O	1:C:2362:SER:OG	2.22	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:1854:MET:HE3	1:E:1959:TYR:HE2	1.80	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: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: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: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:209:GLU:O	1:B:210:VAL:C	2.58	0.46
1:B:2272:ARG:HH22	1:C:2318:GLU:HB3	1.81	0.46
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:214:GLN:O	1:A:215:ASP:C	2.54	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: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: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: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:A:2172:MET:HE3	1:B:2121:ALA:CA	2.38	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:A:209:GLU:O	1:A:210:VAL:C	2.58	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:1026:LYS:NZ	1:D:1878:GLU:OE1	2.49	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:1302:VAL:CG1	1:D:1584:LEU:HG	2.46	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
1:A:1594:GLN:HG3	1:A:1606:ASN:ND2	2.30	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:B:1809:GLY:C	1:B:1810:GLN:O	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:1737:PRO:C	1:B:1739:SER:H	2.25	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: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
1:A:1580:THR:HG21	1:A:1599:GLN:HE22	1.81	0.45
1:A:1642:TYR:OH	1:A:1689:THR:OG1	2.34	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:1103:ASN:HD22	1:B:1598:TRP:NE1	2.10	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:1737:PRO:C	1:E:1739:SER:H	2.25	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: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:116:ALA:O	1:E:120:THR:OG1	2.25	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:92:TYR:HD1	1:A:1956:MET:HE2	1.82	0.45
1:A:1760:PHE:CD2	1:A:1820:PRO:CG	3.00	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:92:TYR:HD1	1:E:1956:MET:HE2	1.82	0.45
1:E:209:GLU:O	1:E:210:VAL:C	2.58	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:2143:ASN:C	1:A:2145:PHE:H	2.25	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:C:1809:GLY:C	1:C:1810:GLN:O	2.59	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:1060:LEU:O	1:B:1064:VAL:HG12	2.16	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
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: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:118:TYR:OH	1:A:1025:ASN:O	2.27	0.44
1:A:1664:TYR:CD2	1:A:1673:SER:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1824:ASP:C	1:A:1825:THR:HG1	2.18	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:1737:PRO:C	1:A:1739:SER:H	2.25	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:92:TYR:HD1	1:D:1956:MET:HE2	1.82	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:1103:ASN:HD22	1:C:1598:TRP:NE1	2.10	0.44
1:C:1107:LEU:HD23	1:C:1109:TYR:HE1	1.81	0.44
1:C:1737:PRO:C	1:C:1739:SER:H	2.25	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:2143:ASN:C	1:D:2145:PHE:H	2.25	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:159:LEU:HD12	1:B:164:LEU:HD21	2.00	0.44
1:B:1974:LEU:O	1:B:1975:SER:OG	2.32	0.44
1:B:2143:ASN:C	1:B:2145:PHE:H	2.26	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:E:2143:ASN:C	1:E:2145:PHE:H	2.25	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:C:2143:ASN:C	1:C:2145:PHE:H	2.25	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
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:2208:ALA:C	1:B:2084:VAL:HG22	2.43	0.44
1:A:2264:GLN:OE1	1:B:2312:LEU:HD21	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1061:LEU:O	1:B:1065:SER:OG	2.33	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:92:TYR:HD1	1:B:1956:MET:HE2	1.82	0.43
1:B:1250:TYR:OH	1:B:1294:PHE:HB2	2.18	0.43
1:B:1269:ILE:C	1:C:1808:HIS:CE1	2.89	0.43
1:B:2253:TRP:CE2	1:C:2301:TYR:CD2	3.06	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: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
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: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:2500:MET:HG3	1:B:2501:LEU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1737:PRO:C	1:D:1739:SER:H	2.25	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: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:2404:ALA:O	1:D:2406:LEU:N	2.51	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:B:1777:MET:HE1	1:B:1852:THR:HG23	2.01	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:B:1174:GLN:CD	1:B:1196:TYR:HA	2.44	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:D:2208:ALA:C	1:E:2084:VAL:HG22	2.44	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:1775:THR:OG1	1:A:1776:PRO:HD3	2.19	0.43
1:B:160:SER:HA	1:B:982:LYS:HD3	2.01	0.43
1:B:1124:ARG:HH11	1:B:1144:TRP:NE1	2.17	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:92:TYR:HD1	1:C:1956:MET:HE2	1.82	0.43
1:C:999:ARG:HE	1:C:1004:VAL:CG2	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1097:TYR:HD2	1:C:1162:ILE:HD12	1.83	0.43
1:C:1777:MET:HE1	1:C:1852:THR:HG23	2.01	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:1269:ILE:C	1:E:1808:HIS:CE1	2.87	0.43
1:D:1809:GLY:C	1:D:1810:GLN:O	2.59	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:1174:GLN:CD	1:E:1196:TYR:HA	2.44	0.43
1:E:1750:LEU:HD23	1:E:1750:LEU:HA	1.84	0.43
1:E:2014:MET:HE3	1:E:2014:MET:HB2	1.68	0.43
1:E:2500:MET:HG3	1:E:2501:LEU:N	2.32	0.43
1:E:2515:ILE:HG22	1:E:2516:LYS:OXT	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: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:1706:LYS:HD2	1:C:1721:TRP:O	2.18	0.43
1:C:2172:MET:HE3	1:D:2121:ALA:CA	2.38	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
1:A:1174:GLN:CD	1:A:1196:TYR:HA	2.44	0.43
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:A:2500:MET:HG3	1:A:2501:LEU:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:2418:THR:C	1:D:2420:PRO:HD3	2.44	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: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: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:1174:GLN:CD	1:C:1196:TYR:HA	2.44	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:C:2418:THR:C	1:C:2420:PRO:HD3	2.44	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:D:2172:MET:HE2	1:E:2121:ALA:HA	2.00	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:1868:TYR:CD2	1:E:1976:ILE:HD13	2.53	0.43
1:E:1967:VAL:O	1:E:1970:LEU:N	2.49	0.43
1:A:155:MET:O	1:A:155:MET:HG2	2.18	0.43
1:A:159:LEU:O	1:A:983:THR:N	2.43	0.43
1:A:2014:MET:HB2	1:A:2014:MET:HE3	1.68	0.43
1:A:2266:TYR:CE2	1:A:2297:TRP:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1760:PHE:CD2	1:B:1820:PRO:CG	3.00	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:1740:ILE:O	1:B:1741:LEU:HB2	2.18	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:B:2418:THR:C	1:B:2420:PRO:HD3	2.44	0.42
1:C:155:MET:HG2	1:C:155:MET:O	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:1777:MET:HE1	1:D:1852:THR:HG23	2.01	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: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: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:1124:ARG:HH11	1:C:1144:TRP:NE1	2.17	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:1777:MET:HE1	1:A:1852:THR:HG23	2.01	0.42
1:A:1992:PRO:HB2	1:E:1044:TYR:CE1	2.54	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: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:1057:MET:HE1	1:C:1775:THR:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1057:MET:HE1	1:D:1775:THR:HG23	2.02	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:2418:THR:C	1:E:2420:PRO:HD3	2.44	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:1689:THR:C	1:A:1690:LEU:HD12	2.45	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:1057:MET:HE1	1:B:1775:THR:HG23	2.02	0.42
1:B:2370:SER:O	1:B:2374:ASN:HB3	2.20	0.42
1:C:2036:PHE:CD1	1:D:2308:GLU:CD	2.96	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:1598:TRP:CG	1:A:1599:GLN:N	2.86	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2446:GLU:OE1	1:C:2471:PRO:HA	2.19	0.42
1:D:161:THR:O	1:D:162:LEU:HB3	2.18	0.42
1:D:1004:VAL:HG23	1:D:1005:GLU:HG3	2.00	0.42
1:D:1124:ARG:HH11	1:D:1144:TRP:NE1	2.17	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:1777:MET:HE1	1:E:1852:THR:HG23	2.01	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: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: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:1689:THR:C	1:E:1690:LEU:HD12	2.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:1758:MET:HG3	1:A:1760:PHE:HE1	1.85	0.42
1:A:1841:ALA:O	1:A:1843:HIS:N	2.44	0.42
1:A:2403:PRO:HA	1:E:2382:ASP:CG	2.39	0.42
1:B:1642:TYR:CZ	1:B:1689:THR:OG1	2.72	0.42
1:B:1689:THR:C	1:B:1690:LEU:HD12	2.45	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:209:GLU:O	1:D:210:VAL:C	2.58	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:1174:GLN:CD	1:D:1196:TYR:HA	2.44	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: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:1124:ARG:HH11	1:E:1144:TRP:NE1	2.17	0.42
1:E:1198:LEU:HD11	1:E:1215:PHE:HD2	1.85	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:A:2418:THR:C	1:A:2420:PRO:HD3	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1689:THR:C	1:D:1690:LEU:HD12	2.45	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
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: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:2404:ALA:C	1:A:2406:LEU:N	2.78	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:1088:VAL:O	1:B:1089:ALA:C	2.63	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:2208:ALA:C	1:D:2084:VAL:HG22	2.45	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1053:GLN:NE2	1:A:1058:ASP:OD1	2.53	0.41
1:A:1057:MET:HE1	1:A:1775:THR:HG23	2.02	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
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:1057:MET:HE1	1:E:1775:THR:HG23	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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1088:VAL:O	1:E:1089:ALA:C	2.63	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
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:1088:VAL:O	1:C:1089:ALA:C	2.63	0.41
1:C:1124:ARG:NE	1:C:1142:SER:O	2.53	0.41
1:C:1132:ASN:HB3	1:C:1843:HIS:HE2	1.85	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: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:2036:PHE:CD1	1:B:2308:GLU:CD	2.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1689:THR:C	1:C:1690:LEU:HD12	2.45	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
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:D:2404:ALA:C	1:D:2406:LEU:N	2.78	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: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:1954:GLU:O	1:B:1955:VAL:C	2.64	0.41
1:B:2188:ARG:O	1:B:2192:TRP:CD1	2.73	0.41
1:B:2272:ARG:HH22	1:C:2318:GLU:C	2.28	0.41
1:B:2277:GLU:OE2	1:B:2290:ARG:HA	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1661:PHE:CD1	1:E:1709:MET:HE3	2.56	0.41
1:E:1827:TRP:HZ3	1:E:1847:HIS:CE1	2.38	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
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:2172:MET:HE2	1:D:2121:ALA:HA	2.01	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:1088:VAL:O	1:D:1089:ALA:C	2.63	0.41
1:D:2036:PHE:CD1	1:E:2308:GLU:CD	2.98	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:1124:ARG:HH11	1:A:1144:TRP:NE1	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1824:ASP:OD2	1:A:1846:MET:HG2	2.21	0.41
1:A:1954:GLU:O	1:A:1955:VAL:C	2.64	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: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:1824:ASP:C	1:B:1826:SER:H	2.29	0.41
1:B:2172:MET:HE2	1:C:2121:ALA:HA	2.01	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:95:GLN:C	1:D:97:SER:N	2.78	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:1661:PHE:CD1	1:D:1709:MET:HE3	2.56	0.41
1:D:2412:ILE:HD12	1:D:2475:ILE:HB	2.01	0.41
1:D:2417:VAL:HG22	1:D:2509:LEU:CD2	2.51	0.41
1:E:947:SER:OG	1:E:964:ARG:HG3	2.21	0.41
1:E:953:GLN:C	1:E:955:ALA:H	2.29	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:953:GLN:C	1:B:955:ALA:H	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1824:ASP:C	1:D:1825:THR:HG1	2.16	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:1088:VAL:O	1:A:1089:ALA:C	2.63	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1854:MET:HE3	1:C:1959:TYR:CE2	2.56	0.41
1:C:1954:GLU:O	1:C:1955:VAL:C	2.64	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:953:GLN:C	1:D:955:ALA:H	2.29	0.41
1:D:1132:ASN:HB3	1:D:1843:HIS:HE2	1.85	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:1954:GLU:O	1:D:1955:VAL:C	2.64	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:1824:ASP:C	1:E:1826:SER:H	2.29	0.41
1:E:2021:HIS:O	1:E:2024:GLU:HG2	2.21	0.41
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:1854:MET:HE3	1:B:1959:TYR:CE2	2.56	0.41
1:B:1868:TYR:CE1	1:B:1970:LEU:HG	2.47	0.41
1:B:2208:ALA:C	1:C:2084:VAL:HG22	2.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1598:TRP:CG	1:C:1599:GLN:N	2.86	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:C:2382:ASP:CG	1:D:2403:PRO:HA	2.39	0.41
1:D:1758:MET:HG3	1:D:1760:PHE:HE1	1.85	0.41
1:E:104:VAL:HG12	1:E:105:ALA:O	2.20	0.41
1:E:117:ALA:O	1:E:118:TYR:C	2.64	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: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:2014:MET:HE3	1:C:2014:MET:HB2	1.68	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:1824:ASP:C	1:D:1826:SER:H	2.29	0.40
1:D:1825:THR:HA	1:D:1846:MET:SD	2.61	0.40
1:D:1854:MET:HE3	1:D:1959:TYR:CE2	2.56	0.40
1:D:2016:LEU:HD21	1:D:2468:LYS:HZ2	1.86	0.40
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1082:LEU:HD23	1:A:1082:LEU:HA	1.74	0.40
1:A:1132:ASN:HB3	1:A:1843:HIS:HE2	1.85	0.40
1:A:1824:ASP:C	1:A:1826:SER:H	2.29	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: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:95:GLN:C	1:C:97:SER:N	2.78	0.40
1:C:209:GLU:O	1:C:210:VAL:C	2.58	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:C:2104:ASP:OD1	1:C:2104:ASP:N	2.53	0.40
1:C:2272:ARG:HH22	1:D:2318:GLU:C	2.29	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:953:GLN:C	1:A:955:ALA:H	2.29	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:1661:PHE:CD1	1:A:1709:MET:HE3	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:1954:GLU:O	1:E:1955:VAL:C	2.64	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:1661:PHE:CD1	1:C:1709:MET:HE3	2.56	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1854:MET:HE3	1:E:1959:TYR:CE2	2.56	0.40
1:E:2079:ASP:O	1:E:2082:LYS:HB3	2.20	0.40
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:2308:GLU:CD	1:E:2036:PHE:CD1	3.00	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: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:117:ALA:O	1:C:118:TYR:C	2.64	0.40
1:C:901:ASP:CB	1:C:904:GLN:O	2.70	0.40
1:C:953:GLN:C	1:C:955:ALA:H	2.29	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

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	21	53
1	B	1415/2516 (56%)	1297 (92%)	110 (8%)	8 (1%)	21	53
1	C	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	21	53
1	D	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	21	53
1	E	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	21	53
All	All	7075/12580 (56%)	6489 (92%)	546 (8%)	40 (1%)	23	53

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

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Mol	Chain	Res	Type
1	B	1686	ILE
1	B	1740	ILE
1	B	1835	VAL
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 ⓘ

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%)	1133 (100%)	2 (0%)	87	84
1	B	1135/2157 (53%)	1133 (100%)	2 (0%)	87	84
1	C	1135/2157 (53%)	1133 (100%)	2 (0%)	87	84
1	D	1135/2157 (53%)	1133 (100%)	2 (0%)	87	84
1	E	1135/2157 (53%)	1133 (100%)	2 (0%)	87	84
All	All	5675/10785 (53%)	5665 (100%)	10 (0%)	85	84

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1213	ILE
1	A	2189	ARG
1	B	1213	ILE
1	B	2189	ARG
1	C	1213	ILE
1	C	2189	ARG
1	D	1213	ILE

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Mol	Chain	Res	Type
1	D	2189	ARG
1	E	1213	ILE
1	E	2189	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (141) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	94	ASN
1	A	1016	GLN
1	A	1053	GLN
1	A	1202	HIS
1	A	1240	GLN
1	A	1265	GLN
1	A	1588	HIS
1	A	1594	GLN
1	A	1599	GLN
1	A	1667	HIS
1	A	1671	ASN
1	A	1672	ASN
1	A	1674	HIS
1	A	1847	HIS
1	A	1972	HIS
1	A	1979	GLN
1	A	2071	GLN
1	A	2108	ASN
1	A	2195	GLN
1	A	2198	ASN
1	A	2321	HIS
1	A	2373	ASN
1	A	2430	GLN
1	A	2452	HIS
1	A	2488	ASN
1	A	2497	GLN
1	A	2510	HIS
1	B	94	ASN
1	B	152	GLN
1	B	1016	GLN
1	B	1053	GLN
1	B	1202	HIS
1	B	1240	GLN
1	B	1265	GLN
1	B	1588	HIS

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Mol	Chain	Res	Type
1	B	1594	GLN
1	B	1599	GLN
1	B	1667	HIS
1	B	1671	ASN
1	B	1672	ASN
1	B	1674	HIS
1	B	1847	HIS
1	B	1951	GLN
1	B	1972	HIS
1	B	1979	GLN
1	B	2071	GLN
1	B	2195	GLN
1	B	2198	ASN
1	B	2321	HIS
1	B	2373	ASN
1	B	2430	GLN
1	B	2452	HIS
1	B	2461	GLN
1	B	2465	ASN
1	B	2488	ASN
1	B	2497	GLN
1	B	2510	HIS
1	C	94	ASN
1	C	1016	GLN
1	C	1053	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	1671	ASN
1	C	1672	ASN
1	C	1674	HIS
1	C	1847	HIS
1	C	1951	GLN
1	C	1972	HIS
1	C	1979	GLN
1	C	2071	GLN
1	C	2195	GLN
1	C	2198	ASN
1	C	2248	GLN

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Mol	Chain	Res	Type
1	C	2321	HIS
1	C	2373	ASN
1	C	2430	GLN
1	C	2452	HIS
1	C	2488	ASN
1	C	2497	GLN
1	C	2510	HIS
1	D	94	ASN
1	D	152	GLN
1	D	1016	GLN
1	D	1053	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	1671	ASN
1	D	1672	ASN
1	D	1674	HIS
1	D	1817	ASN
1	D	1847	HIS
1	D	1972	HIS
1	D	1979	GLN
1	D	2071	GLN
1	D	2195	GLN
1	D	2198	ASN
1	D	2321	HIS
1	D	2373	ASN
1	D	2430	GLN
1	D	2452	HIS
1	D	2461	GLN
1	D	2465	ASN
1	D	2488	ASN
1	D	2497	GLN
1	D	2510	HIS
1	E	94	ASN
1	E	1016	GLN
1	E	1053	GLN
1	E	1202	HIS
1	E	1240	GLN
1	E	1265	GLN

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Mol	Chain	Res	Type
1	E	1298	ASN
1	E	1588	HIS
1	E	1594	GLN
1	E	1667	HIS
1	E	1671	ASN
1	E	1672	ASN
1	E	1674	HIS
1	E	1817	ASN
1	E	1847	HIS
1	E	1951	GLN
1	E	1972	HIS
1	E	2071	GLN
1	E	2195	GLN
1	E	2198	ASN
1	E	2321	HIS
1	E	2373	ASN
1	E	2430	GLN
1	E	2452	HIS
1	E	2461	GLN
1	E	2488	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

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

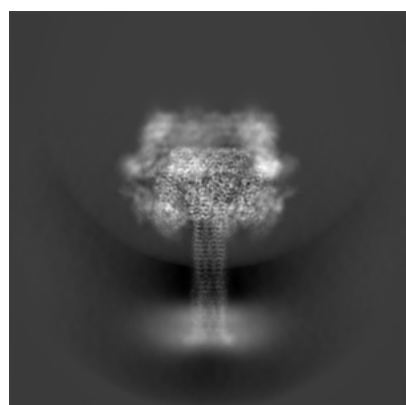
6 Map visualisation [i](#)

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.

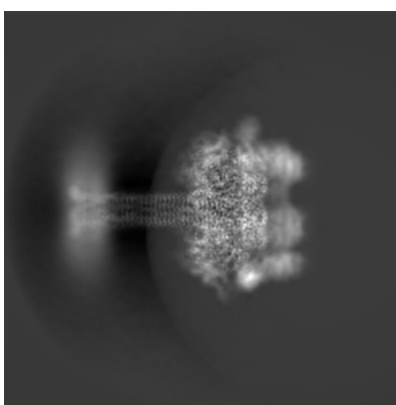
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

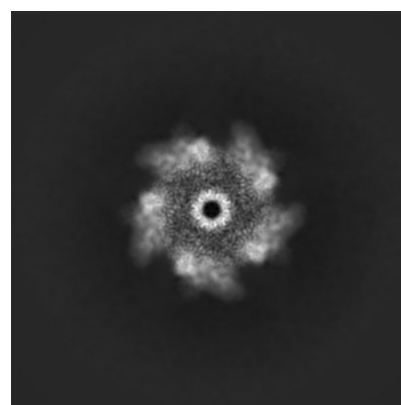
6.1.1 Primary map



X



Y



Z

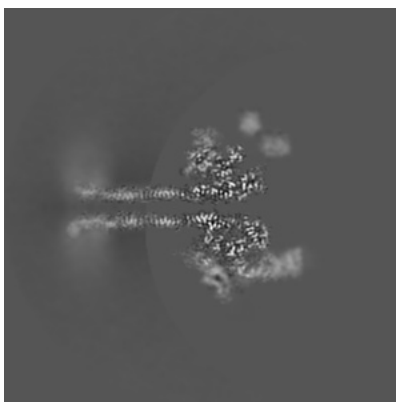
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

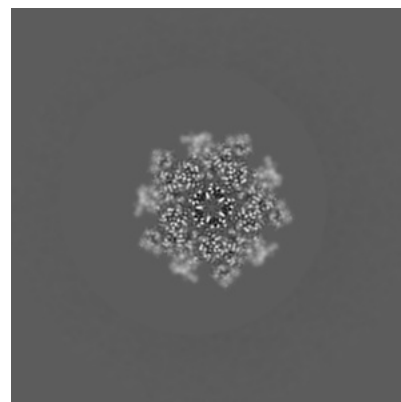
6.2.1 Primary map



X Index: 141



Y Index: 141

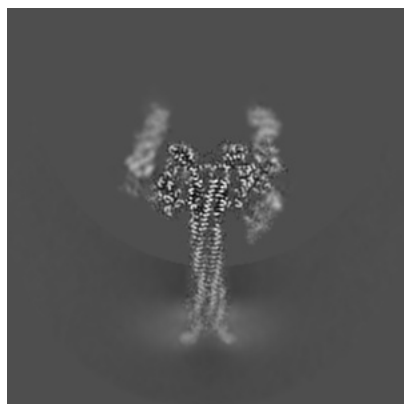


Z Index: 141

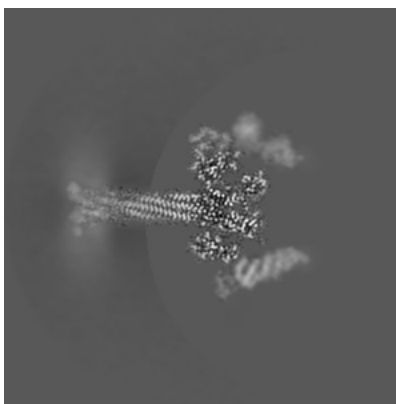
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

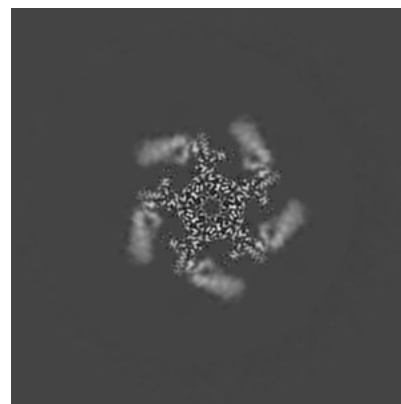
6.3.1 Primary map



X Index: 134



Y Index: 132

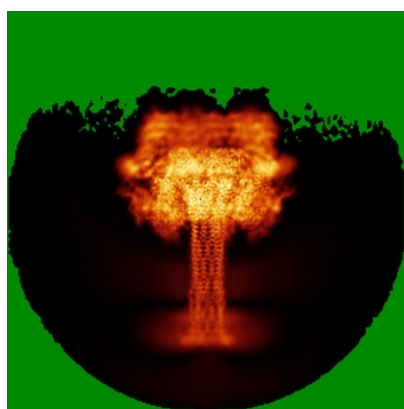


Z Index: 169

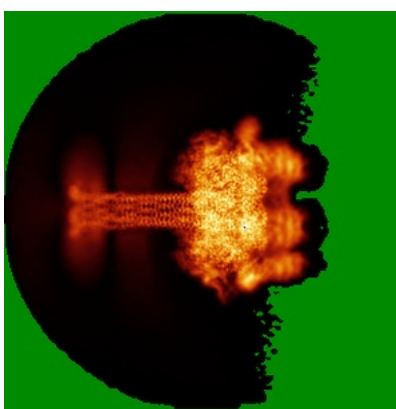
The images above show the largest variance slices of the map in three orthogonal directions.

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

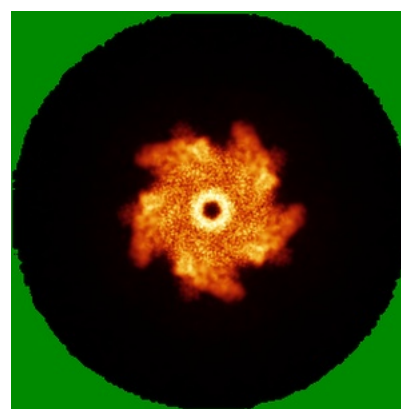
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views

This section was not generated.

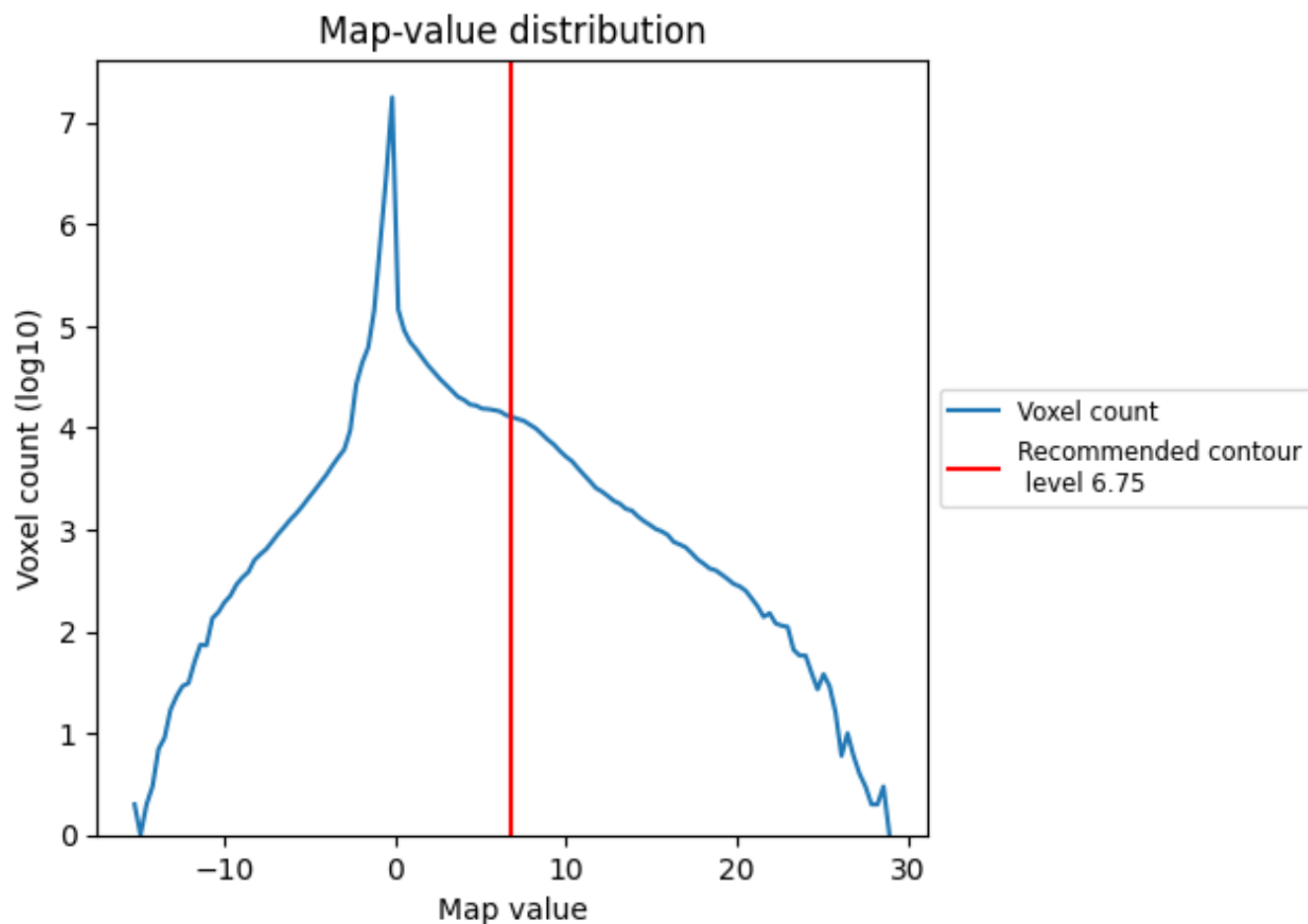
6.6 Mask visualisation

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

7 Map analysis [i](#)

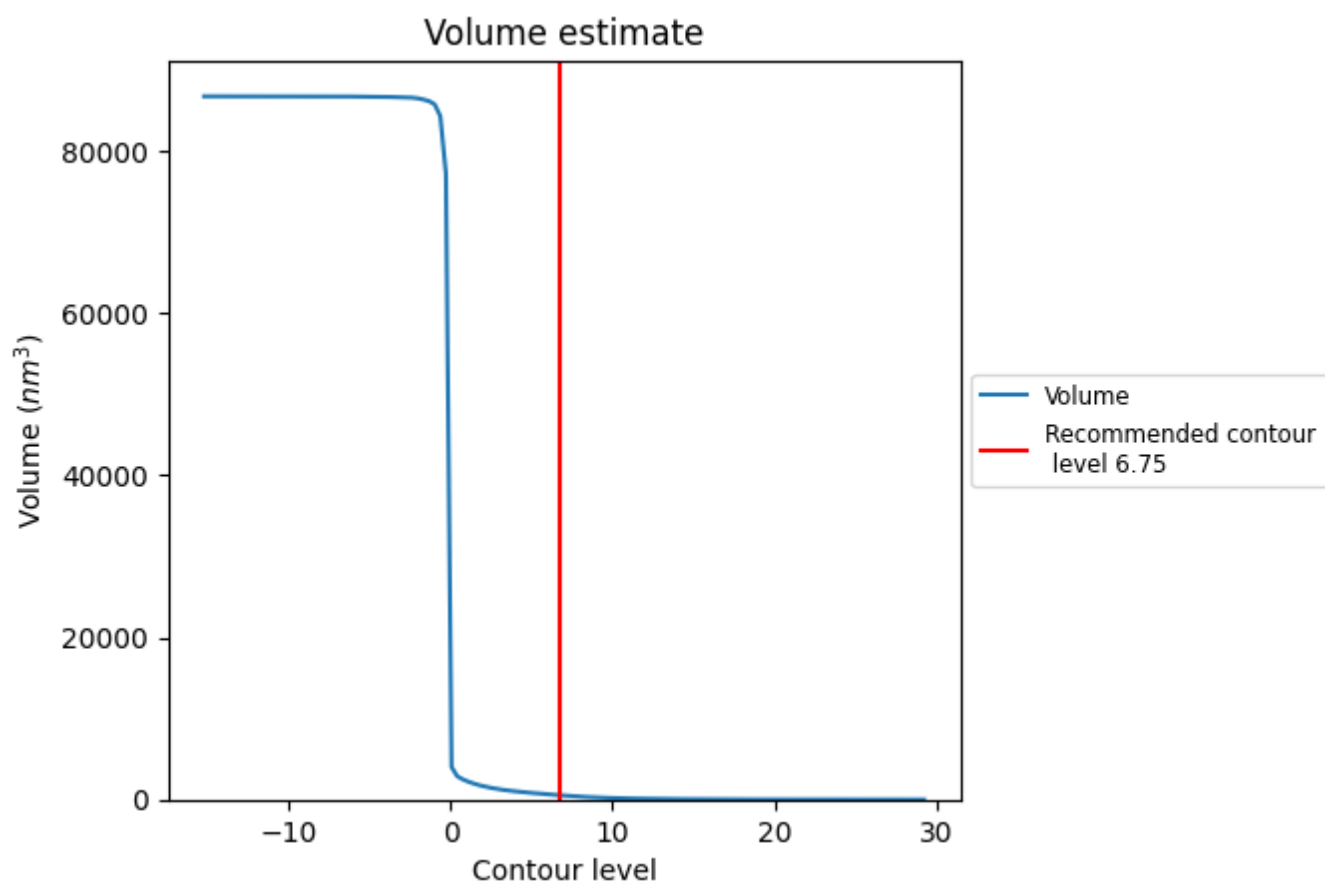
This section contains the results of statistical analysis of the map.

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.

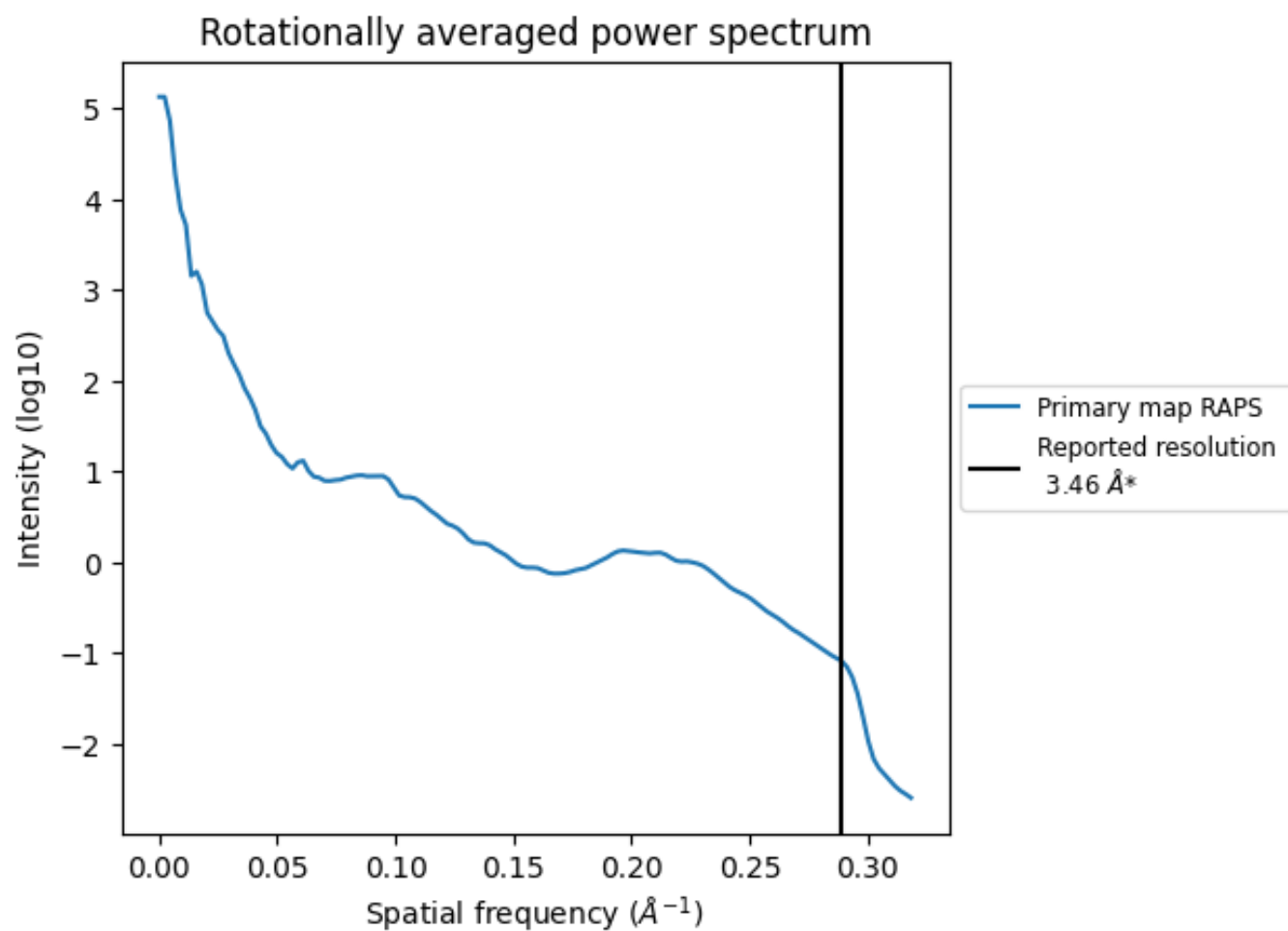
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 535 nm³; 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 ⓘ



*Reported resolution corresponds to spatial frequency of 0.289 Å⁻¹

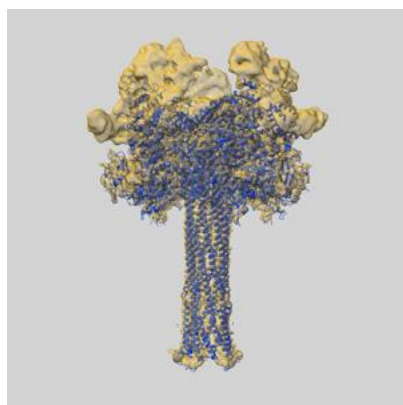
8 Fourier-Shell correlation ⓘ

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

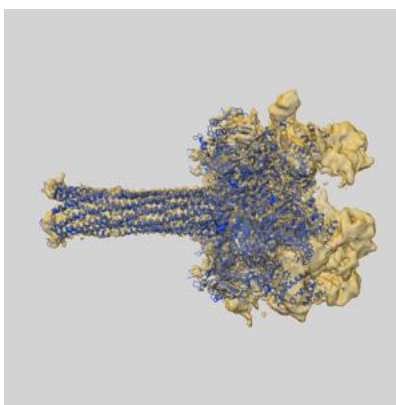
9 Map-model fit [i](#)

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 [5](#).

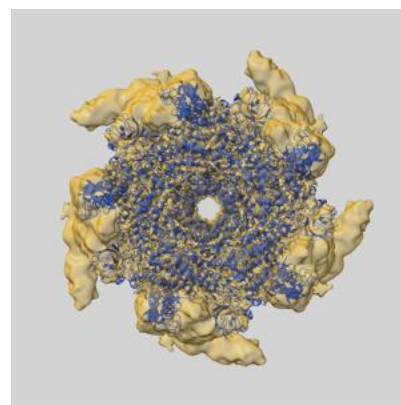
9.1 Map-model overlay [i](#)



X



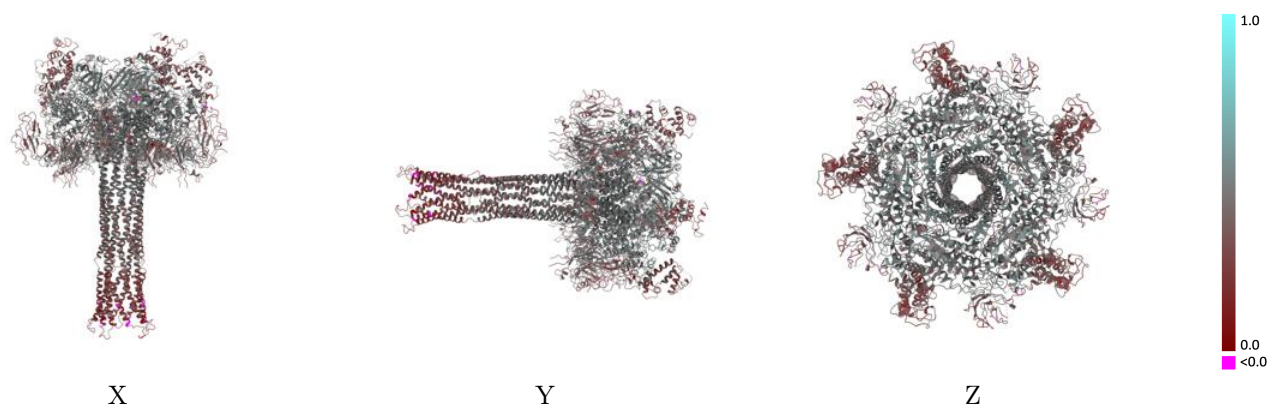
Y



Z

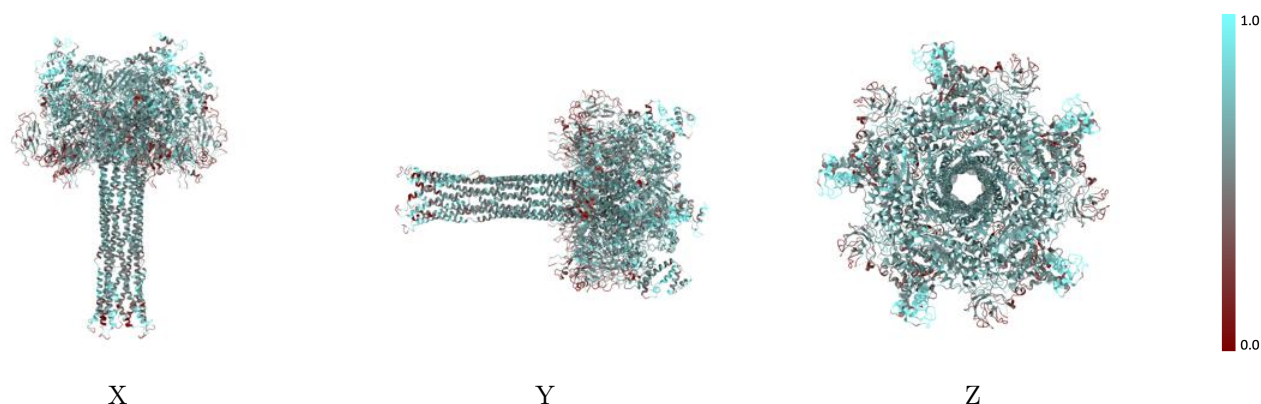
The images above show the 3D surface view of the map at the recommended contour level 6.75 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



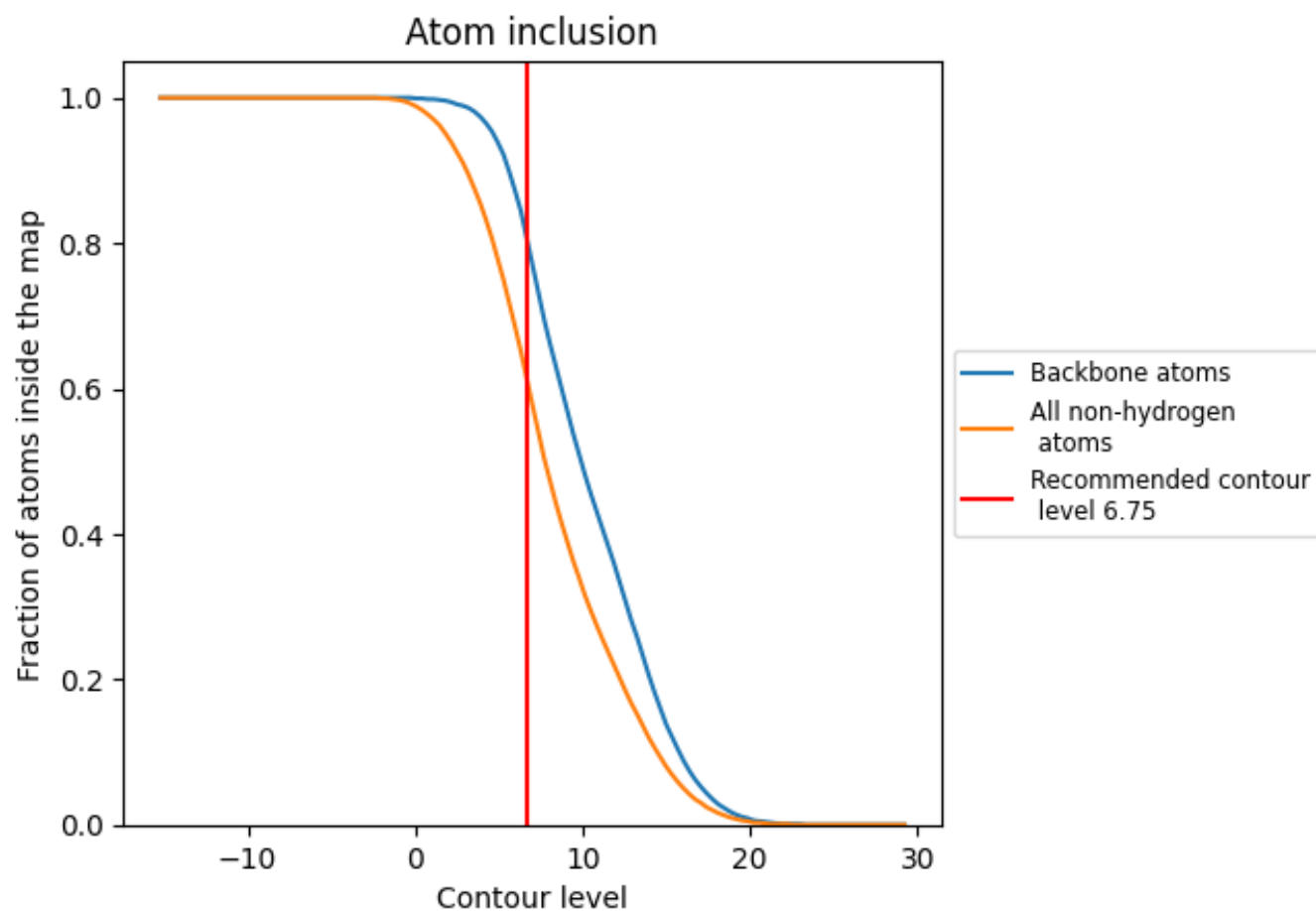
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 60% 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	0.6050	0.4300
A	0.6120	0.4380
B	0.6020	0.4270
C	0.6020	0.4270
D	0.6050	0.4280
E	0.6060	0.4300

