



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 07:27 AM UTC

PDB ID : 5LUQ / pdb_00005luq
Title : Crystal Structure of Human DNA-dependent Protein Kinase Catalytic Subunit (DNA-PKcs)
Authors : Sibanda, B.L.; Chirgadze, D.Y.; Ascher, D.B.; Blundell, T.L.
Deposited on : 2016-09-09
Resolution : 4.30 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

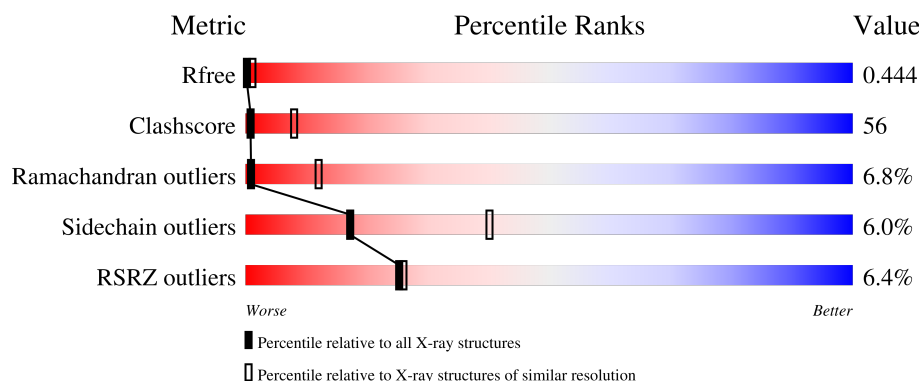
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.30 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1052 (4.70-3.90)
Clashscore	190562	1097 (4.70-3.90)
Ramachandran outliers	187476	1001 (4.70-3.90)
Sidechain outliers	187428	1007 (4.72-3.88)
RSRZ outliers	180081	1049 (4.70-3.90)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	4128	5% 28% 54% 8% 10%
1	B	4128	6% 28% 54% 8% 10%
2	K	194	23% 5% 72%
2	S	194	23% 5% 72%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 59694 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called DNA-dependent protein kinase catalytic subunit,DNA-dependent Protein Kinase Catalytic Subunit,DNA-dependent protein kinase catalytic subunit.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	3725	Total	C	N	O	S	Se	0	0	0
			29574	18907	5016	5460	81	110			
1	B	3725	Total	C	N	O	S	Se	0	0	0
			29574	18907	5016	5460	81	110			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MSE	-	expression tag	UNP P78527
A	4128	MSE	-	expression tag	UNP P78527
B	1	MSE	-	expression tag	UNP P78527
B	4128	MSE	-	expression tag	UNP P78527

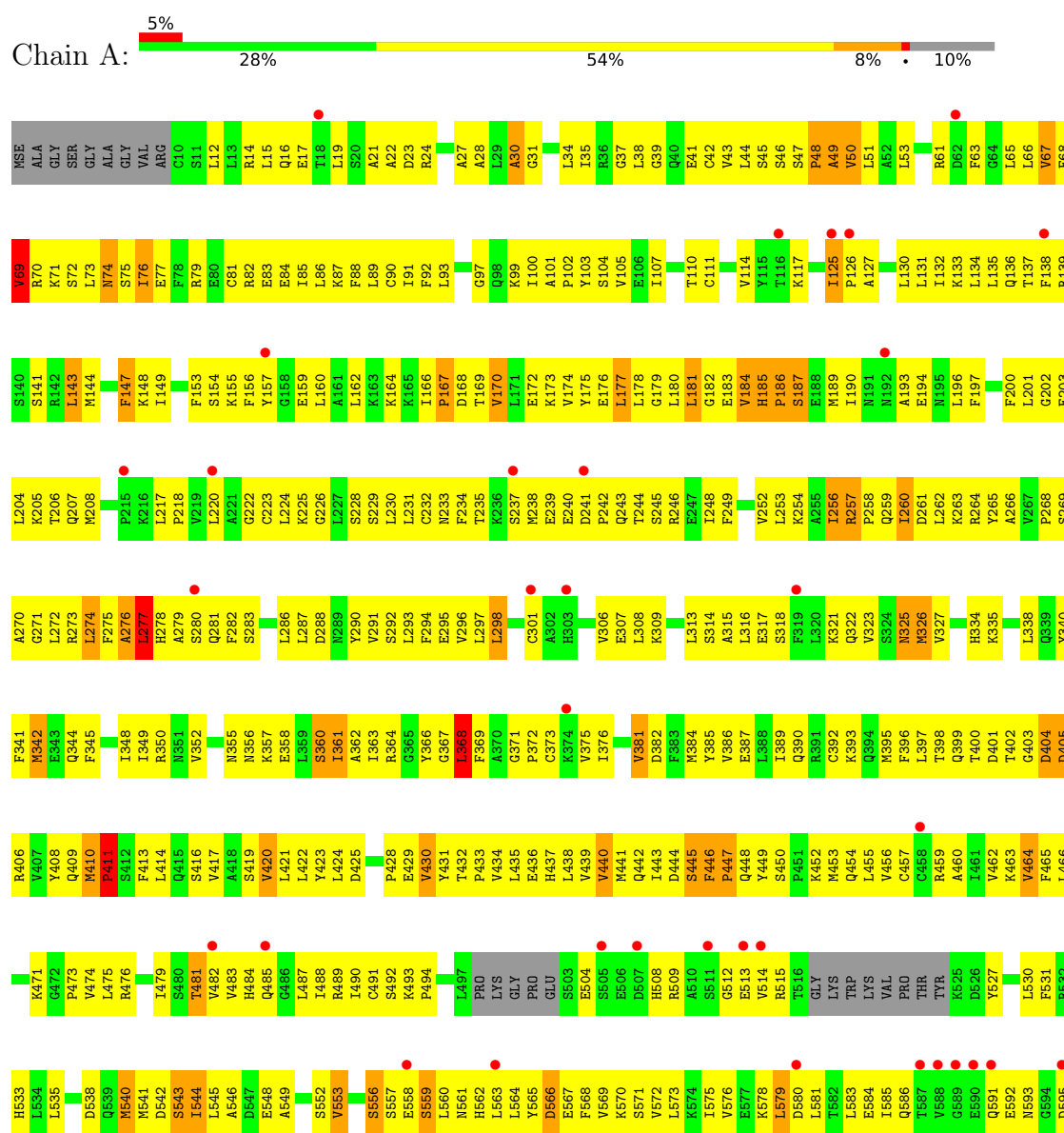
- Molecule 2 is a protein called C-terminal fragment of KU80 (KU80ct194).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	K	54	Total	C	N	O	Se	0	0	0
			273	164	54	54	1			
2	S	54	Total	C	N	O	Se	0	0	0
			273	164	54	54	1			

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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

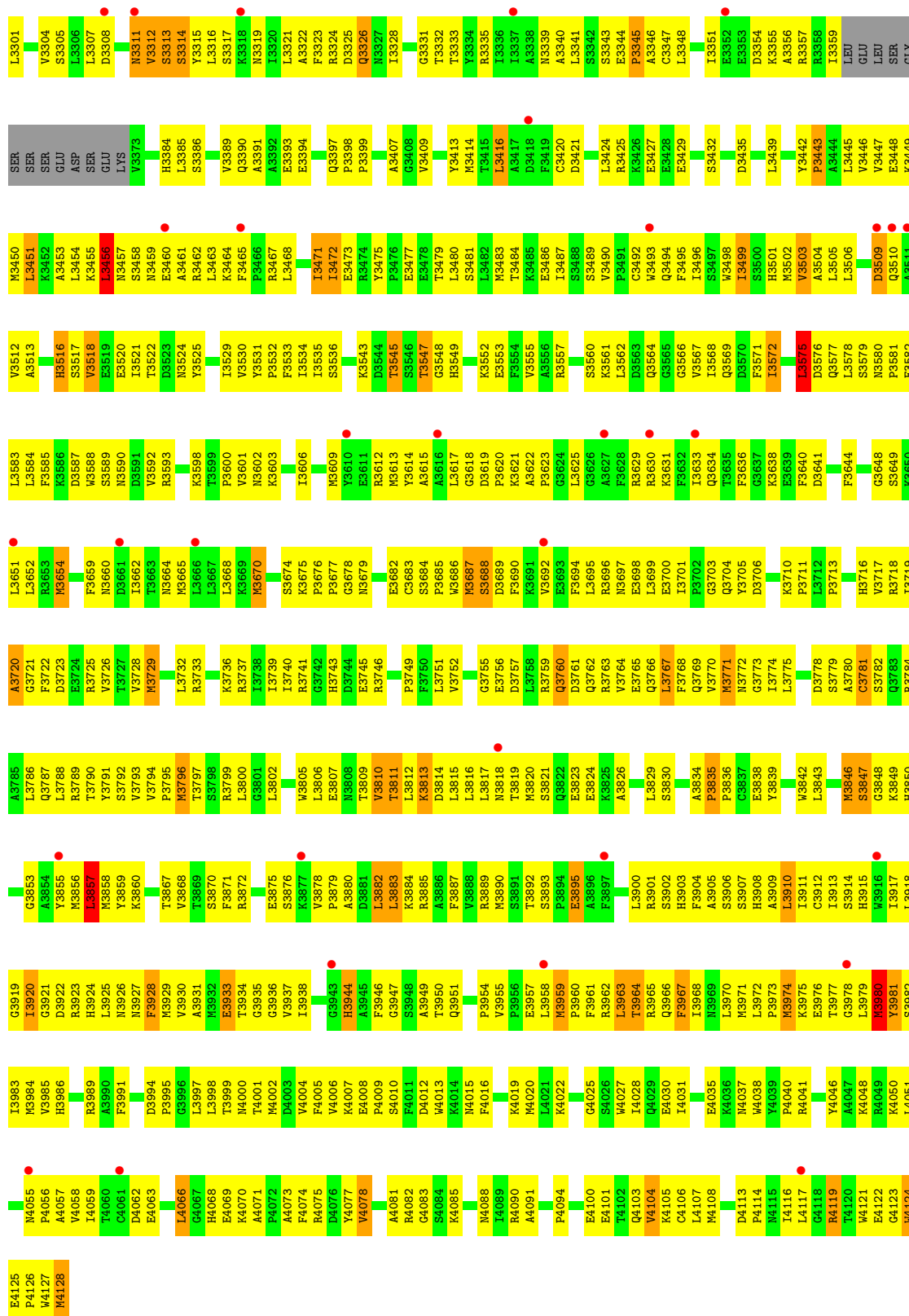
- Molecule 1: DNA-dependent protein kinase catalytic subunit,DNA-dependent Protein Kinase Catalytic Subunit,DNA-dependent protein kinase catalytic subunit



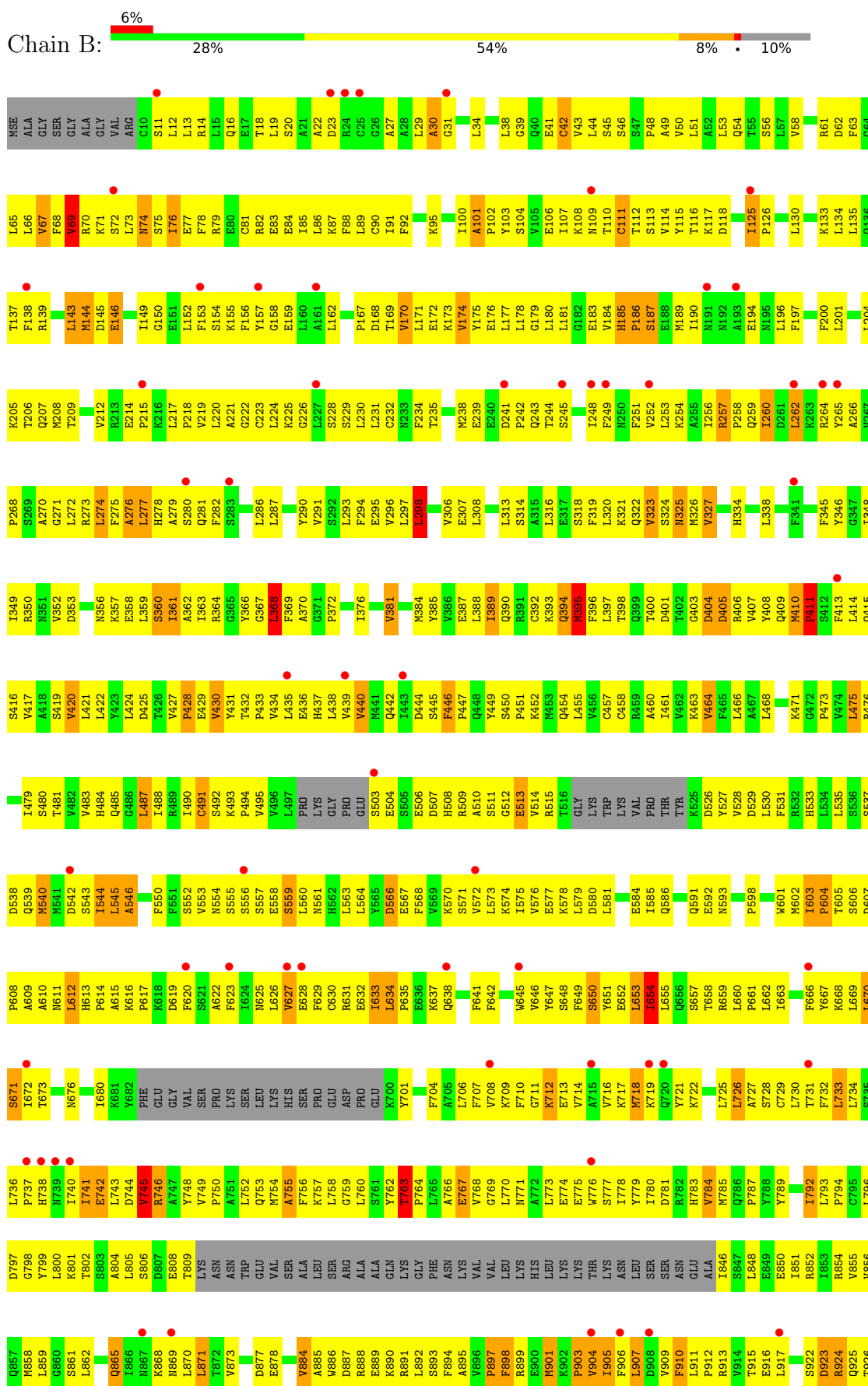


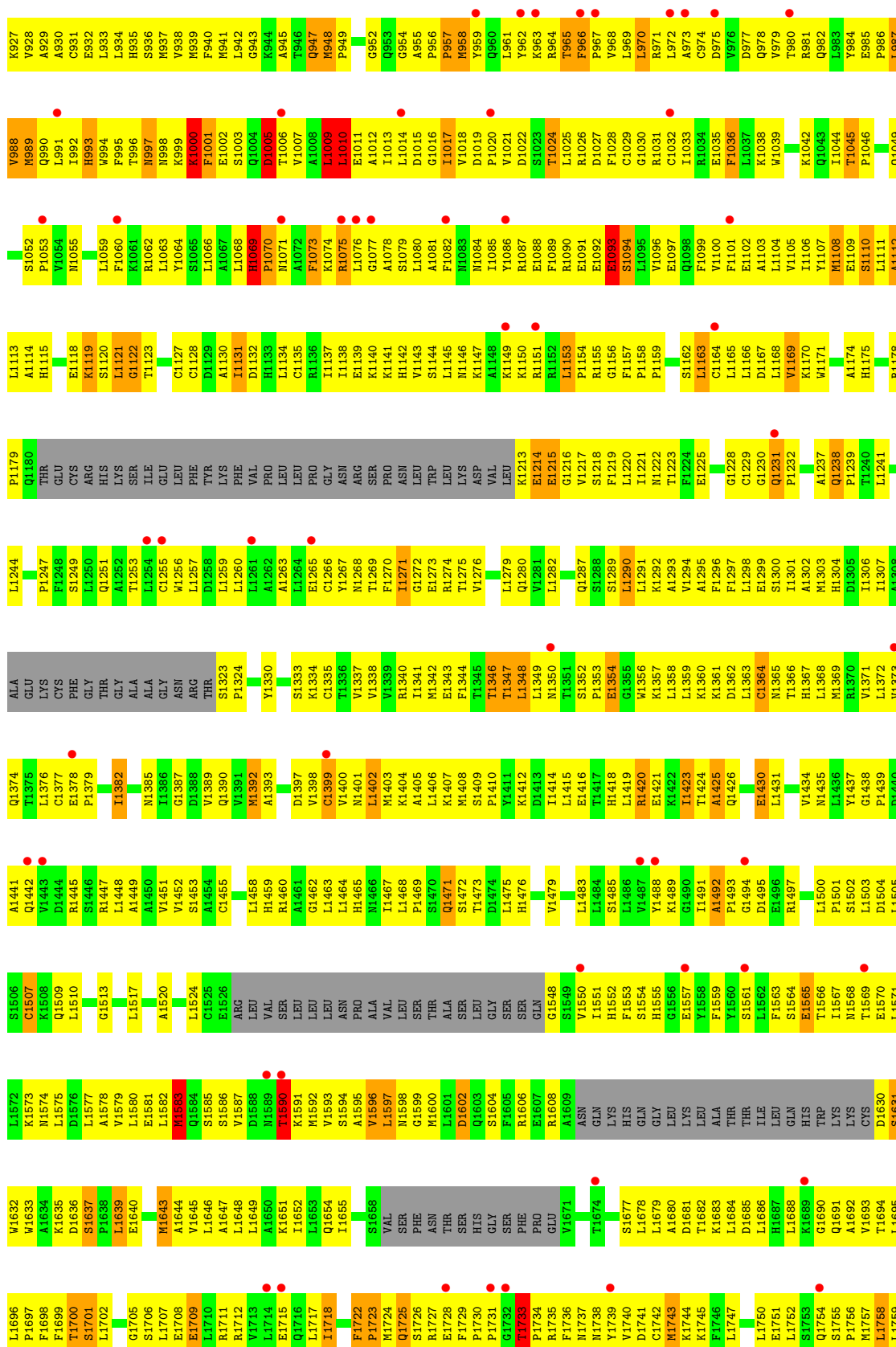
L1503	L1504	L1505	L1506	L1507	L1508	L1509	L1510	L1511	L1512	L1513	L1516	L1517	L1518	L1519	L1520	L1521	L1522	L1523	L1524	L1525	L1526	ARG	LEU	VAL	SER	LEU	LEU	ASN	PRO	ALA	VAL	LEU	SER	THR	ALA	SER	LEU	GLY	PRO	SER	ASN	GLN	G1548	G1549	V1550	I1551	H1552	F1553	S1554	H1555	G1556	G1557	I1558	Y1559	Y1560	F1563	S1564							
E1565	T1566	I1567	N1568	T1569	E1570	L1571	L1572	K1573	N1574	L1575	D1576	L1577	A1578	L1582	M1583	Q1584	S1585	S1586	V1587	D1588	N1589	K1590	L1591	M1592	V1593	S1594	L1597	N1598	G1599	M1600	L1601	D1602	Q1603	S1604	F1605	R1606	E1607	R1608	A1609	ASN	GLN	LYS	HIS	GLN	V1675	I1676	S1677	L1678	L1679	LEU	LYS	LEU	D1681	T1682	K1683	L1684	THR	I1685	LEU	GLN	HIS	TRP	L1689	L1690
LYS	CYS	D1630	S1631	V1632	V1633	A1634	L1635	D1636	S1637	L1638	L1639	E1640	T1641	M1642	A1643	V1645	L1646	A1647	L1648	L1649	A1650	K1651	L1652	L1653	Q1654	I1655	S1658	VAL	SER	PHE	THR	ASN	THR	SER	HIS	GLY	SER	PHE	PRO	GLU	V1671	Y1675	I1676	S1677	L1678	L1679	A1680	D1681	T1682	K1683	L1684	THR	I1685	LEU	GLN	HIS	TRP	L1689	L1690					
Q1691	A1692	V1693	T1694	L1695	L1696	F1697	F1698	F1699	T1700	S1701	L1702	T1703	S1706	E1709	L1710	R1711	R1712	L1713	L1714	E1715	Q1716	L1717	I1718	V1719	F1722	P1723	M1724	Q1725	S1726	R1727	E1728	F1729	P1730	F1731	G1732	T1733	P1734	R1735	F1736	N1737	N1738	Y1739	V1740	D1741	G1742	M1743	K1744	O1745	F1746	L1747	D1748	A1749	L1750	E1751	L1752	S1753								
Q1754	S1755	P1756	M1757	L1758	L1759	E1760	L1761	M1762	T1763	GLU	VAL	LEU	CYS	ARG	GLN	GLN	HIS	VAL	MSE	GLU	LEU	PHE	GLN	SER	PHE	ARG	ALA	ARG	ILE	ALA	R1787	R1788	G1789	T1793	L1797	L1798	E1799	S1800	Y1801	Y1802	E1803	M1804	F1805	R1806	K1807	D1808	D1809	P1810	R1811	R1812	S1813	F1814	T1815	R1816	Q1817									
S1818	F1819	D1820	D1821	R1822	SER	LEU	LEU	THR	LEU	LEU	TRP	CYS	SER	SER	LEU	ALA	LEU	ARG	PHE	PHE	GLU	THR	ILE	VAL	VAL	ASP	ALA	ILE	ASP	VAL	LEU	LYS	SER	ARG	PHE	T1856	K1857	L1858	N1859	E1860	S1861	D1864	T1865	Q1866	I1867	T1868	K1869	K1870	M1871	G1872	R1873	Y1874	K1875	L1876	L1877	D1878								
V1879	M1880	S1881	S1882	L1883	L1884	R1885	K1886	D1887	D1888	D1889	H1890	A1891	S1894	K1895	L1896	N1897	Q1898	V1899	H1901	T1905	L1906	E1907	G1908	N1909	L1910	L1911	T1912	K1913	T1914	L1915	L1916	K1917	L1918	C1919	Y1920	D1921	A1922	F1923	T1924	E1925	N1926	M1927	A1928	G1929	E1930	N1931	Q1932	L1933	L1934	E1935	R1936	R1937	R1938	L1939	Y1940	H1941								
C1942	Y1945	N1946	C1947	A1948	T1949	S1950	V1951	T1952	C1953	G1954	L1955	F1956	M1957	E1958	L1959	K1960	F1961	Y1962	F1963	F1964	F1965	L1966	F1967	S1968	E1969	K1970	P1971	L1975	L1976	L1977	F1978	E1979	N1980	L1981	T1982	D1983	L1984	K1985	R1986	Y1987	N1988	N1989	F1990	P1991	V1992	E1993	Y1994	E1995	V1996	P1997	M1998	R2000	K2001	K2002	Y1940	Y2004								
L2005	E2006	L2007	L2008	K2009	E2010	A2011	R2012	E2013	A2014	A2015	N2016	G2017	D2018	G2021	E2022	S2023	S2024	S2027	L2028	S2029	L2030	L2031	A2032	D2033	S2034	T2035	L2036	S2037	E2038	E2039	M2040	S2041	Q2042	F2043	D2044	F2045	S2046	T2047	G2048	V2049	Q2050	S2051	Y2052	S2053	Y2054	S2055	S2056	Q2057	D2058	P2059	R2060	P2061	R2065	P2066	R2067	R2068								
R2069	E2070	Q2071	R2072	D2073	P2074	T2075	V2076	H2077	D2078	D2079	V2080	L2081	E2082	L2083	E2084	M2085	D2086	E2087	L2088	N2089	R2090	H2091	E2092	C2093	M2094	A2095	P2096	L2097	T2098	A2099	L2100	H2103	M2104	H2105	R2106	P2110	P2111	E2114	E2115	D2116	R2120	D2121	L2122	Y2125	M2126	F2127	F2128	L2129	G2134	N2135	L2136	I2137	V2138											
P2139	L2140	N2141	L2142	R2143	L2144	F2145	L2146	A2147	K2148	L2151	N2152	T2153	E2154	E2155	L2156	F2157	A2161	K2162	H2163	W2164	L2165	S2166	P2167	L2168	L2169	L2170	L2171	L2172	A2173	S2174	E2175	N2176	N2177	L2182	H2183	Y2184	N2185	V2186	V2187	E2188	T2189	V2190	Y2191	Y2192	T2193	L2194	S2195	W2196	L2199	A2200	Y2201	P2202	T2203	G2204	Y2205									
P2206	K2207	D2208	E2209	V2210	L2211	A2212	L2213	R2214	L2215	L2216	L2219	M2220	K2221	H2222	V2223	P2224	H2225	P2226	K2227	R2228	A2229	C2230	F2231	R2232	H2233	L2234	L2235	E2236	I2237	L2238	K2239	T2240	L2241	V2242	E2243	C2244	W2245	K2246	D2247	C2248	L2249	S2250	P2251	Y2252	Y2253	R2254	L2255	F2256	T2257	E2258	K2259	F2260	S2261	G2262	K2263	D2264	S2267							
N2270	S2271	V2272	G2273	L2274	T2275	L2276	L2277	G2278	L2279	V2280	M2281	A2282	N2283	D2284	L2285	P2286	E2287	Y2288	D2289	P2290	Q2291	C2292	G2293	L2294	Q2295	S2296	S2297	E2298	Y2299	F2300	Q2301	A2302	L2303	V2304	N2305	N2306	M2307	S2308	F2309	V2310	R2311	Y2312	K2313	E2314	V2315	Y2316	A2317	A2318	A2319	A2320	E2321	V2322	L2323	G2324	L2325	L2326	L2327	R2328						





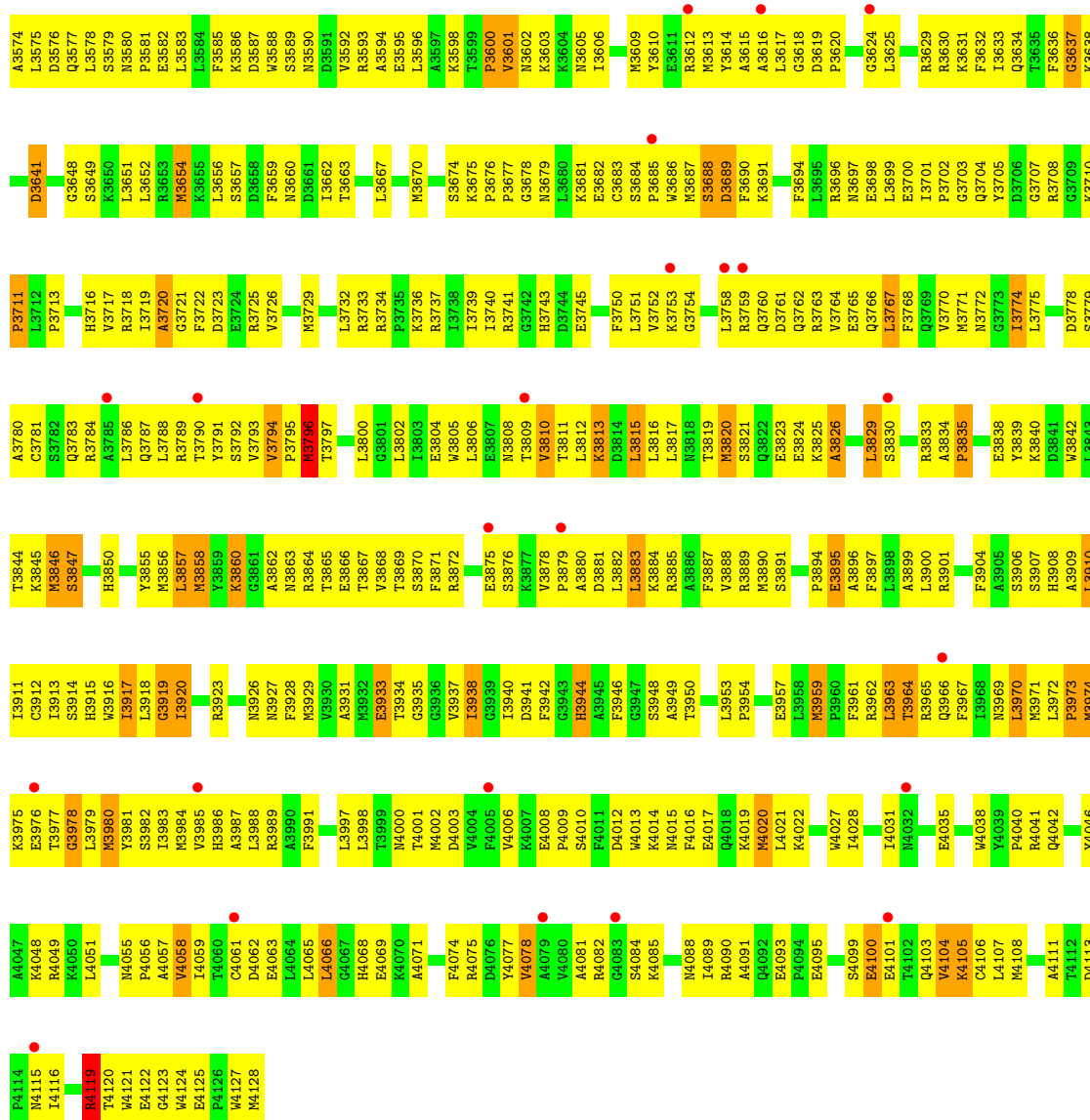
- Molecule 1: DNA-dependent protein kinase catalytic subunit,DNA-dependent Protein Kinase Catalytic Subunit,DNA-dependent protein kinase catalytic subunit





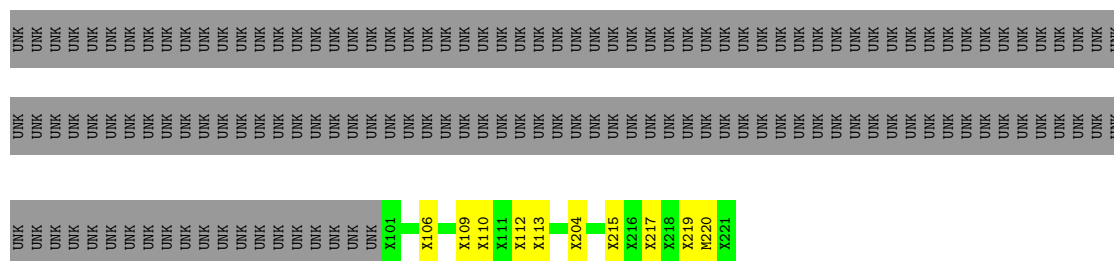






• Molecule 2: C-terminal fragment of KU80 (KU80ct194)

Chain K: 23% 5% 72%



• Molecule 2: C-terminal fragment of KU80 (KU80ct194)

Chain S: 23% 5% 72%

[illegible]

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	169.12Å 132.64Å 296.59Å 90.00° 105.53° 90.00°	Depositor
Resolution (Å)	49.92 – 4.30 49.92 – 4.30	Depositor EDS
% Data completeness (in resolution range)	97.8 (49.92-4.30) 97.6 (49.92-4.30)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.33 (at 4.29Å)	Xtriage
Refinement program	PHENIX (1.10_2155: ???)	Depositor
R, R_{free}	0.386 , 0.437 0.388 , 0.444	Depositor DCC
R_{free} test set	2009 reflections (2.32%)	wwPDB-VP
Wilson B-factor (Å ²)	184.6	Xtriage
Anisotropy	0.337	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 290.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.019 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.83	EDS
Total number of atoms	59694	wwPDB-VP
Average B, all atoms (Å ²)	253.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.76% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

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	0.44	3/29743 (0.0%)	0.85	24/40014 (0.1%)
1	B	0.44	4/29743 (0.0%)	0.84	25/40014 (0.1%)
2	K	0.22	0/7	0.43	0/7
2	S	0.44	0/7	0.39	0/7
All	All	0.44	7/59500 (0.0%)	0.84	49/80042 (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	8
1	B	0	6
All	All	0	14

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	3847	SER	CA-C	-12.16	1.46	1.52
1	A	1069	HIS	C-N	-7.66	1.16	1.33
1	B	146	GLU	CA-C	-6.88	1.49	1.52
1	B	3794	VAL	C-N	-6.53	1.18	1.33
1	B	1069	HIS	C-N	6.43	1.48	1.33
1	A	4124	TRP	CA-C	-5.50	1.42	1.52
1	B	3734	ARG	C-O	-5.42	1.21	1.23

All (49) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1998	MSE	N-CA-C	-9.53	99.77	111.40
1	B	1880	MSE	N-CA-C	-7.59	103.01	111.28
1	B	2371	PHE	CA-C-N	-7.41	112.74	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2371	PHE	C-N-CA	-7.41	112.74	120.38
1	A	3980	MSE	N-CA-C	-7.35	103.57	112.54
1	A	3152	SER	CA-C-N	7.18	134.63	121.70
1	A	3152	SER	C-N-CA	7.18	134.63	121.70
1	B	1998	MSE	N-CA-C	-7.12	103.26	112.23
1	A	726	LEU	CA-CB-CG	-7.00	91.80	116.30
1	B	3397	GLN	CA-CB-CG	6.82	127.75	114.10
1	B	3980	MSE	N-CA-C	-6.56	104.37	112.38
1	B	3152	SER	CA-C-N	6.36	133.14	121.70
1	B	3152	SER	C-N-CA	6.36	133.14	121.70
1	B	726	LEU	CA-CB-CG	-6.28	94.32	116.30
1	A	2372	PRO	N-CA-C	6.27	118.35	110.70
1	A	3665	MSE	CB-CG-SE	6.25	131.43	112.70
1	A	1871	MSE	N-CA-C	-6.15	107.00	114.75
1	B	3456	LEU	CA-CB-CG	6.07	137.54	116.30
1	A	718	MSE	CB-CG-SE	-6.02	94.64	112.70
1	B	1871	MSE	N-CA-C	-6.01	106.93	114.56
1	B	3974	MSE	CA-C-N	5.97	132.45	121.70
1	B	3974	MSE	C-N-CA	5.97	132.45	121.70
1	A	2821	ASP	N-CA-C	-5.96	107.82	114.62
1	B	395	MSE	N-CA-C	5.89	123.34	110.80
1	A	3456	LEU	CA-CB-CG	5.84	136.75	116.30
1	B	1927	MSE	N-CA-C	-5.76	104.92	111.14
1	A	3729	MSE	N-CA-C	5.74	117.69	109.14
1	A	3882	LEU	CA-CB-CG	-5.64	96.57	116.30
1	B	1010	LEU	CA-CB-CG	5.63	136.02	116.30
1	A	2926	LEU	CA-CB-CG	5.55	135.71	116.30
1	B	1643	MSE	CB-CG-SE	-5.52	96.14	112.70
1	B	2372	PRO	N-CA-C	5.45	117.35	110.70
1	A	901	MSE	CA-CB-CG	-5.45	103.20	114.10
1	B	1930	GLU	CA-CB-CG	5.39	124.89	114.10
1	A	2960	GLU	CA-C-N	-5.39	113.84	122.62
1	A	2960	GLU	C-N-CA	-5.39	113.84	122.62
1	B	1804	MSE	N-CA-C	-5.35	105.34	111.07
1	A	2551	GLU	CA-C-N	5.26	131.44	121.97
1	A	2551	GLU	C-N-CA	5.26	131.44	121.97
1	A	3442	TYR	N-CA-C	5.23	121.38	109.81
1	A	1010	LEU	CA-CB-CG	5.21	134.55	116.30
1	B	1009	LEU	CB-CG-CD1	-5.20	95.11	110.70
1	A	1762	MSE	CB-CG-SE	5.12	128.06	112.70
1	B	3734	ARG	CB-CA-C	5.11	114.83	111.20
1	B	939	MSE	N-CA-C	-5.11	105.84	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3974	MSE	CA-C-N	5.05	130.78	121.70
1	A	3974	MSE	C-N-CA	5.05	130.78	121.70
1	B	2377	ARG	CA-C-N	-5.01	112.30	121.52
1	B	2377	ARG	C-N-CA	-5.01	112.30	121.52

There are no chirality outliers.

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1323	SER	Peptide
1	A	2283	ASN	Peptide
1	A	2372	PRO	Peptide
1	A	3547	THR	Peptide
1	A	3980	MSE	Peptide
1	A	411	PRO	Peptide
1	A	4119	ARG	Peptide
1	A	634	LEU	Peptide
1	B	1323	SER	Peptide
1	B	2372	PRO	Peptide
1	B	3547	THR	Peptide
1	B	411	PRO	Peptide
1	B	4119	ARG	Peptide
1	B	634	LEU	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	29574	0	29642	3318	0
1	B	29574	0	29642	3380	0
2	K	273	0	70	9	0
2	S	273	0	73	9	0
All	All	59694	0	59427	6706	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 56.

All (6706) 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:B:2183:HIS:O	1:B:2187:VAL:HB	1.30	1.31
1:B:662:LEU:O	1:B:666:PHE:HB2	1.28	1.30
1:A:3521:ILE:O	1:A:3525:TYR:HB2	1.32	1.28
1:B:3683:CYS:SG	1:B:3736:LYS:NZ	2.12	1.23
1:B:2167:PRO:O	1:B:2171:LEU:HB2	1.39	1.18
1:B:1344:PHE:O	1:B:1348:LEU:HB2	1.41	1.18
1:A:3923:ARG:HG2	1:A:3962:ARG:HH22	1.07	1.17
1:B:1407:LYS:NZ	1:B:1460:ARG:O	1.77	1.16
1:B:3521:ILE:O	1:B:3525:TYR:HB2	1.43	1.16
1:A:2183:HIS:O	1:A:2187:VAL:HB	1.39	1.16
1:A:368:LEU:HD21	1:A:384:MSE:HB2	1.25	1.15
1:B:3868:VAL:O	1:B:3872:ARG:HB3	1.44	1.15
1:B:2872:ASP:O	1:B:2913:LYS:NZ	1.80	1.15
1:B:2477:LEU:O	1:B:2481:HIS:HB3	1.44	1.14
1:B:3467:ARG:O	1:B:3471:ILE:HB	1.46	1.14
1:B:1931:ASN:O	1:B:1938:ARG:NH2	1.80	1.13
1:B:974:CYS:HA	1:B:981:ARG:HD2	1.17	1.13
1:A:3167:ARG:HD3	1:A:3186:ARG:HG2	1.29	1.12
1:B:67:VAL:O	1:B:71:LYS:HB2	1.50	1.12
1:B:2100:LEU:HD21	1:B:2104:MSE:HE3	1.31	1.11
1:B:3099:ALA:O	1:B:3103:ILE:HB	1.47	1.11
1:A:3812:LEU:O	1:A:3816:LEU:HB2	1.49	1.11
1:A:560:LEU:HB3	1:A:616:LYS:HZ3	1.12	1.11
1:B:2960:GLU:OE2	1:B:3289:ARG:NH1	1.83	1.10
1:B:19:LEU:O	1:B:23:ASP:HB2	1.51	1.10
1:B:2891:ARG:HH22	1:B:3884:LYS:HD3	0.97	1.10
1:B:3581:PRO:HG2	1:B:3674:SER:HB2	1.34	1.09
1:A:3467:ARG:O	1:A:3471:ILE:HB	1.49	1.09
1:B:909:VAL:HG13	1:B:913:ARG:HH11	1.16	1.08
1:B:899:ARG:HH12	1:B:2570:PRO:HB2	1.17	1.08
1:B:3772:ASN:HB2	1:B:3787:GLN:HG3	1.36	1.07
1:A:3868:VAL:O	1:A:3872:ARG:HB3	1.54	1.07
1:B:3117:ILE:HD12	1:B:3125:ARG:HH11	1.15	1.07
1:A:887:ASP:HB3	1:A:3889:ARG:HB3	1.35	1.04
1:B:2304:VAL:HG11	1:B:2344:LEU:HB3	1.40	1.04
1:B:3534:ILE:HG12	1:B:3704:GLN:HE22	1.22	1.03
1:B:2991:LYS:NZ	1:B:2995:GLU:OE2	1.91	1.03
1:A:2227:LYS:HD2	1:A:2235:LEU:HG	1.37	1.03
1:A:4082:ARG:HG3	1:A:4091:ALA:HB2	1.40	1.03
1:A:963:LYS:NZ	1:A:1006:THR:OG1	1.92	1.02
1:B:90:CYS:HB3	1:B:137:THR:HG22	1.40	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:327:VAL:HG22	1:A:338:LEU:HD13	1.38	1.02
1:A:2549:LYS:HZ2	1:A:2554:PHE:HA	1.19	1.02
1:B:2887:PRO:HB3	1:B:2922:ARG:HH11	1.24	1.02
1:B:4071:ALA:O	1:B:4075:ARG:HB3	1.58	1.01
1:B:3917:ILE:O	1:B:4048:LYS:NZ	1.92	1.01
1:A:1491:ILE:O	1:A:1497:ARG:NH1	1.93	1.00
1:B:3284:SER:HB2	1:B:3287:ARG:HH21	1.23	1.00
1:A:974:CYS:HA	1:A:981:ARG:HD2	1.41	1.00
1:A:1808:ASP:HB2	1:A:1814:PHE:HB3	1.41	0.99
1:B:2216:LEU:HD22	1:B:2249:LEU:HD11	1.43	0.99
1:B:2166:SER:O	1:B:2170:GLN:HB3	1.60	0.99
1:A:1471:GLN:O	1:A:1475:LEU:HB3	1.63	0.98
1:B:985:GLU:HG3	1:B:1031:ARG:HH22	1.25	0.98
1:B:2879:GLY:HA2	1:B:2886:GLN:HG2	1.42	0.98
1:B:3284:SER:HA	1:B:3287:ARG:HE	1.24	0.98
1:B:3699:LEU:O	1:B:3718:ARG:NH1	1.97	0.98
1:A:4103:GLN:O	1:A:4107:LEU:HB2	1.64	0.98
1:B:963:LYS:NZ	1:B:1006:THR:OG1	1.96	0.98
1:A:3819:THR:OG1	1:A:3889:ARG:NH1	1.96	0.97
1:B:1959:LEU:HD13	1:B:1998:MSE:HE3	1.44	0.97
1:A:357:LYS:HB3	1:A:360:SER:HB2	1.46	0.97
1:B:366:TYR:O	1:B:369:PHE:HB3	1.62	0.97
1:A:366:TYR:O	1:A:369:PHE:HB3	1.63	0.97
1:B:357:LYS:HB3	1:B:360:SER:HB2	1.44	0.97
1:B:2424:MSE:HG2	1:B:2433:LYS:HD2	1.47	0.96
1:B:3923:ARG:HG2	1:B:3962:ARG:HH22	1.30	0.96
1:A:2943:PHE:HD1	1:A:2944:THR:H	1.13	0.96
1:B:1093:GLU:N	1:B:1097:GLU:OE2	1.98	0.96
1:A:2070:GLU:HG3	1:A:2072:ARG:HG3	1.47	0.96
1:B:2243:GLU:HA	1:B:2246:LYS:HD2	1.46	0.96
1:A:2375:ALA:O	1:A:2379:MSE:HB3	1.66	0.96
1:B:1249:SER:O	1:B:1253:THR:HB	1.64	0.96
1:B:1435:ASN:OD1	1:B:1489:LYS:NZ	1.99	0.96
1:B:3931:ALA:O	1:B:3935:GLY:HA2	1.63	0.96
1:A:3182:ILE:HB	1:A:3186:ARG:NH1	1.80	0.95
1:A:3923:ARG:O	1:A:3962:ARG:NH1	1.98	0.95
1:A:385:TYR:HD1	1:A:420:VAL:HG13	1.30	0.95
1:B:3819:THR:OG1	1:B:3889:ARG:NH1	2.00	0.95
1:B:2228:ARG:NH1	1:B:2269:ASP:OD1	1.98	0.95
1:A:560:LEU:HB3	1:A:616:LYS:NZ	1.81	0.95
1:A:2962:ARG:HB2	1:A:3253:SER:HB3	1.47	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:440:VAL:HB	1:B:483:VAL:HG12	1.46	0.95
1:B:2308:SER:HB3	1:B:2348:GLN:HG2	1.49	0.95
1:B:2538:ARG:HH11	1:B:2565:MSE:HB3	1.32	0.95
1:B:801:LYS:NZ	1:B:877:ASP:OD2	2.00	0.95
1:A:1685:ASP:HB2	1:A:1727:ARG:HH22	1.28	0.94
1:B:3887:PHE:HB3	1:B:3897:PHE:HE1	1.31	0.94
1:A:1010:LEU:HB2	1:A:1028:PHE:CD1	2.02	0.94
1:A:1733:THR:HG21	1:A:1877:LEU:HB3	1.47	0.94
1:A:3885:ARG:HE	1:A:3889:ARG:HD2	1.32	0.94
1:A:1883:ARG:HB2	1:A:1927:MSE:HE1	1.48	0.94
1:B:3923:ARG:HG2	1:B:3962:ARG:NH2	1.82	0.94
1:B:2416:LYS:O	1:B:2420:PHE:HB3	1.68	0.94
1:B:3772:ASN:HD22	1:B:3788:LEU:H	1.16	0.94
1:B:3722:PHE:HE1	1:B:3740:ILE:HG12	1.31	0.93
1:B:753:GLN:O	1:B:757:LYS:HB2	1.68	0.93
1:A:3923:ARG:HG2	1:A:3962:ARG:NH2	1.83	0.93
1:B:977:ASP:HB2	1:B:981:ARG:HB3	1.50	0.93
1:B:3920:ILE:HG13	1:B:3923:ARG:HD2	1.50	0.93
1:B:2891:ARG:NH2	1:B:3884:LYS:HD3	1.81	0.93
1:B:61:ARG:O	1:B:65:LEU:HB2	1.68	0.93
1:A:2443:MSE:HE3	1:A:2476:ILE:HB	1.48	0.93
1:A:3789:ARG:NH2	1:A:3806:LEU:HD22	1.83	0.93
1:B:1966:LEU:HD22	1:B:1991:PRO:HB3	1.50	0.93
1:A:473:PRO:HA	1:A:476:ARG:HH22	1.33	0.93
1:A:964:ARG:HB2	1:A:1009:LEU:HD22	1.49	0.93
1:A:3521:ILE:O	1:A:3525:TYR:CB	2.16	0.93
1:B:760:LEU:HD11	1:B:799:TYR:HB2	1.48	0.93
1:B:659:ARG:HH22	1:B:662:LEU:HG	1.33	0.92
1:B:3462:ARG:HB2	1:B:3498:TRP:HB3	1.47	0.92
1:A:2330:VAL:HG21	1:A:2338:GLU:HB3	1.52	0.92
1:A:2457:PRO:HA	1:A:2460:GLU:HB2	1.52	0.92
1:A:3872:ARG:HH11	1:A:3965:ARG:NH1	1.67	0.92
1:B:886:TRP:CD1	1:B:889:GLU:H	1.87	0.92
1:B:1949:ILE:HD12	1:B:1952:ILE:HG21	1.51	0.92
1:B:2330:VAL:HG22	1:B:2335:ASN:HA	1.51	0.92
1:B:756:PHE:HA	1:B:773:LEU:HD13	1.50	0.92
1:B:1343:GLU:O	1:B:1347:THR:OG1	1.88	0.92
1:B:1729:PHE:HE2	1:B:1870:LYS:HA	1.32	0.91
1:B:2390:HIS:HA	1:B:2397:CYS:HB2	1.52	0.91
1:A:3462:ARG:HB2	1:A:3498:TRP:HB3	1.49	0.91
1:B:970:LEU:HD22	1:B:1031:ARG:HH21	1.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2330:VAL:HG21	1:B:2338:GLU:HB3	1.52	0.91
1:B:2011:ALA:HB3	1:B:2014:ALA:HB2	1.50	0.91
1:A:363:ILE:O	1:A:367:GLY:N	2.03	0.91
1:A:616:LYS:O	1:A:620:PHE:HB2	1.71	0.91
1:A:2375:ALA:O	1:A:2379:MSE:CB	2.19	0.91
1:B:808:GLU:HG2	1:B:852:ARG:HH21	1.31	0.91
1:B:1107:TYR:O	1:B:1110:SER:HB2	1.71	0.91
1:B:2361:ILE:HD12	1:B:2364:LEU:HD12	1.49	0.91
1:B:2559:THR:HG21	1:B:2808:LEU:HD13	1.53	0.91
1:B:1743:MSE:SE	1:B:1880:MSE:SE	2.90	0.90
1:A:3498:TRP:CD1	1:A:3502:MSE:HB2	2.05	0.90
1:B:1010:LEU:HD13	1:B:1028:PHE:HE1	1.36	0.90
1:B:429:GLU:O	1:B:431:TYR:N	2.04	0.90
1:B:3839:TYR:HE1	1:B:3867:THR:HB	1.36	0.90
1:A:1905:ILE:HG12	1:A:1951:VAL:HG11	1.51	0.90
1:A:1987:ARG:O	1:A:1991:PRO:HD3	1.71	0.90
1:A:2837:LEU:HD22	1:A:2868:LEU:HG	1.51	0.90
1:A:1106:ILE:O	1:A:1110:SER:N	2.05	0.89
1:A:1155:ARG:NH1	1:A:1155:ARG:O	2.04	0.89
1:B:4082:ARG:HG3	1:B:4091:ALA:HB2	1.54	0.89
1:B:2562:LEU:HD12	1:B:2812:LEU:HD21	1.53	0.89
1:A:1090:ARG:HH21	1:A:1100:VAL:HG11	1.35	0.89
1:A:2467:THR:HB	1:A:2518:GLN:HE22	1.35	0.89
1:A:2552:VAL:HG23	1:A:2852:PRO:HG2	1.54	0.89
1:B:1552:HIS:O	1:B:1555:HIS:ND1	2.05	0.89
1:B:2142:ILE:HA	1:B:2145:PHE:CD2	2.07	0.89
1:A:429:GLU:O	1:A:431:TYR:N	2.06	0.89
1:B:2352:HIS:HB3	1:B:2360:PHE:HB3	1.54	0.89
1:B:1651:LYS:HB2	1:B:1684:LEU:HD11	1.53	0.89
1:B:3887:PHE:HB3	1:B:3897:PHE:CE1	2.08	0.89
1:A:1931:ASN:O	1:A:1938:ARG:NH2	2.06	0.89
1:A:3816:LEU:HD13	1:A:3966:GLN:HE22	1.36	0.89
1:A:3696:ARG:NH1	1:A:3720:ALA:O	2.05	0.88
1:B:3259:LEU:O	1:B:3263:HIS:HB2	1.73	0.88
1:B:2891:ARG:HD3	1:B:3972:LEU:HD22	1.55	0.88
1:A:1729:PHE:HE2	1:A:1870:LYS:HA	1.39	0.88
1:A:2957:LEU:HB3	1:A:3989:ARG:NH1	1.87	0.88
1:B:993:HIS:HB2	1:B:1038:LYS:HG2	1.55	0.88
1:B:473:PRO:HA	1:B:476:ARG:HH22	1.36	0.88
1:B:3048:LYS:HD3	1:B:3061:LEU:HD23	1.55	0.88
1:B:3762:GLN:HA	1:B:3793:VAL:HG21	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2390:HIS:HA	1:A:2397:CYS:HB2	1.54	0.88
1:B:1241:LEU:HD11	1:B:1253:THR:HG21	1.54	0.88
1:B:2326:ILE:O	1:B:2330:VAL:HB	1.74	0.88
1:A:1010:LEU:HB2	1:A:1028:PHE:HD1	1.36	0.88
1:B:3923:ARG:O	1:B:3962:ARG:NH1	2.07	0.88
1:A:801:LYS:HB2	1:A:805:LEU:HD12	1.56	0.88
1:A:3589:SER:O	1:A:3593:ARG:HB2	1.74	0.88
1:A:3772:ASN:HB2	1:A:3787:GLN:HG3	1.55	0.88
1:B:1582:LEU:HD22	1:B:1600:MSE:HE1	1.52	0.88
1:A:90:CYS:HB3	1:A:137:THR:HG22	1.56	0.88
1:A:3772:ASN:ND2	1:A:3788:LEU:O	2.06	0.88
1:A:185:HIS:H	1:A:186:PRO:HD2	1.38	0.88
1:A:658:THR:HA	1:A:733:LEU:HD22	1.55	0.88
1:A:2022:PRO:HB2	1:A:2072:ARG:HH21	1.36	0.88
1:B:741:ILE:O	1:B:744:ASP:N	2.05	0.88
1:B:1018:VAL:HB	1:B:1074:LYS:HB2	1.54	0.88
1:B:658:THR:HA	1:B:733:LEU:HD22	1.55	0.87
1:B:662:LEU:O	1:B:666:PHE:CB	2.20	0.87
1:A:473:PRO:HA	1:A:476:ARG:NH2	1.88	0.87
1:A:535:LEU:HD21	1:A:623:PHE:HA	1.55	0.87
1:B:1808:ASP:HB2	1:B:1814:PHE:HB3	1.54	0.87
1:B:2546:TYR:CE1	1:B:2558:ALA:HB2	2.09	0.87
1:A:105:VAL:HG21	1:A:149:ILE:HD13	1.53	0.87
1:B:252:VAL:HG11	1:B:265:TYR:HB2	1.56	0.87
1:A:3003:ASN:ND2	1:A:3014:CYS:SG	2.47	0.87
1:A:2378:PHE:HE1	1:A:2408:MSE:HE1	1.40	0.87
1:B:2307:MSE:HB3	1:B:2348:GLN:HE22	1.39	0.87
1:A:2477:LEU:O	1:A:2481:HIS:HB3	1.74	0.87
1:B:591:GLN:OE1	1:B:1026:ARG:NH1	2.08	0.87
1:B:2253:TYR:HD1	1:B:2256:ILE:HD12	1.37	0.86
1:A:866:ILE:HD13	1:A:3129:LEU:HB3	1.57	0.86
1:B:3530:VAL:HG11	1:B:3702:PRO:HD3	1.55	0.86
1:A:1107:TYR:O	1:A:1110:SER:HB2	1.74	0.86
1:A:3492:CYS:O	1:A:3495:PHE:HB3	1.74	0.86
1:B:2286:PRO:HB2	1:B:2289:ASP:HA	1.57	0.86
1:A:1407:LYS:O	1:A:1409:SER:N	2.08	0.86
1:A:793:LEU:HA	1:A:796:LEU:HG	1.58	0.86
1:A:1919:CYS:O	1:A:1923:PHE:HB2	1.76	0.86
1:A:2563:LEU:O	1:A:2567:SER:OG	1.93	0.86
1:B:2837:LEU:HA	1:B:2840:PHE:HD2	1.40	0.86
1:A:1603:GLN:OE1	1:A:1606:ARG:NH2	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4071:ALA:O	1:A:4075:ARG:HB3	1.76	0.86
1:B:2253:TYR:HB2	1:B:2291:GLN:HG2	1.56	0.86
1:B:2443:MSE:SE	1:B:2476:ILE:HB	2.25	0.86
1:A:1749:ALA:HA	1:A:1752:LEU:HD12	1.55	0.86
1:B:658:THR:HG22	1:B:659:ARG:NH1	1.89	0.86
1:B:3167:ARG:HH11	1:B:3167:ARG:HG3	1.40	0.86
1:A:659:ARG:HH22	1:A:662:LEU:HG	1.41	0.86
1:A:3326:GLN:HB2	1:A:3393:GLU:HG2	1.56	0.86
1:A:1762:MSE:SE	1:A:1896:ILE:HG23	2.26	0.85
1:A:3581:PRO:HG2	1:A:3674:SER:HB2	1.58	0.85
1:B:1733:THR:HG21	1:B:1877:LEU:HB3	1.55	0.85
1:A:2142:ILE:HA	1:A:2145:PHE:CD2	2.11	0.85
1:B:745:VAL:HG11	1:B:776:TRP:HZ2	1.39	0.85
1:A:527:TYR:OH	1:A:615:ALA:O	1.93	0.85
1:A:1010:LEU:HA	1:A:1013:ILE:HG12	1.56	0.85
1:B:2358:ASP:HB2	1:B:2396:LEU:HD21	1.57	0.85
1:B:3326:GLN:HB2	1:B:3393:GLU:HG2	1.57	0.85
1:B:3868:VAL:O	1:B:3872:ARG:CB	2.24	0.85
1:A:3613:MSE:HE1	1:A:3617:LEU:HD12	1.56	0.85
1:A:4007:LYS:HG3	1:A:4041:ARG:HD2	1.55	0.85
1:B:3632:PHE:O	1:B:3637:GLY:N	2.08	0.85
1:A:2330:VAL:HG22	1:A:2335:ASN:HA	1.57	0.85
1:B:725:LEU:O	1:B:728:SER:OG	1.94	0.85
1:B:3487:ILE:HG21	1:B:3495:PHE:HB2	1.58	0.85
1:A:2043:PHE:O	1:A:2047:THR:OG1	1.93	0.85
1:B:2227:LYS:HD2	1:B:2235:LEU:HG	1.58	0.85
1:B:2375:ALA:O	1:B:2379:MSE:HB3	1.76	0.85
1:B:2478:MSE:O	1:B:2482:ASP:HB3	1.76	0.85
1:A:2007:ILE:HG22	1:A:2009:LYS:HB2	1.57	0.85
1:B:2070:GLU:HG3	1:B:2072:ARG:HG3	1.57	0.85
1:B:3589:SER:O	1:B:3593:ARG:HB2	1.77	0.85
1:A:974:CYS:HA	1:A:981:ARG:CD	2.07	0.84
1:B:1010:LEU:HB2	1:B:1028:PHE:HD1	1.40	0.84
1:B:2481:HIS:HE1	1:B:2485:ARG:NH1	1.75	0.84
1:B:3583:LEU:HD11	1:B:3733:ARG:HB3	1.57	0.84
1:A:2161:ALA:HA	1:A:2164:TRP:HD1	1.42	0.84
1:B:2300:PHE:CZ	1:B:2341:LEU:HB2	2.12	0.84
1:B:3811:THR:OG1	1:B:3813:LYS:NZ	2.09	0.84
1:A:2292:CYS:HB3	1:A:2300:PHE:HB2	1.57	0.84
1:A:2837:LEU:HA	1:A:2840:PHE:HD2	1.41	0.84
1:B:2196:TRP:CD2	1:B:2199:LEU:HD11	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3182:ILE:HB	1:B:3186:ARG:NH1	1.91	0.84
1:A:286:LEU:HB2	1:A:290:TYR:HB2	1.59	0.84
1:B:978:GLN:HA	1:B:981:ARG:HE	1.42	0.84
1:B:3243:ILE:HG12	1:B:3258:LEU:HD11	1.58	0.84
1:B:3725:ARG:HH12	1:B:3737:ARG:NH2	1.74	0.84
1:B:3879:PRO:HA	1:B:3882:LEU:HB2	1.58	0.84
1:A:3174:ASP:H	1:A:3175:PRO:HD2	1.42	0.84
1:A:3868:VAL:HG11	1:A:4114:PRO:HB3	1.60	0.84
1:B:3117:ILE:HD12	1:B:3125:ARG:NH1	1.91	0.84
1:A:361:ILE:HB	1:A:364:ARG:NH2	1.92	0.84
1:A:3092:LEU:HA	1:A:3192:LYS:HE3	1.58	0.84
1:B:1162:SER:H	1:B:1165:LEU:HD12	1.42	0.84
1:B:2552:VAL:HG23	1:B:2852:PRO:HG2	1.57	0.84
1:B:3486:GLU:HG3	1:B:3487:ILE:H	1.43	0.84
1:B:3858:MSE:HE3	1:B:4119:ARG:HA	1.60	0.84
1:B:2161:ALA:HA	1:B:2164:TRP:HD1	1.43	0.84
1:B:2329:TYR:O	1:B:2333:ARG:N	2.11	0.84
1:A:1410:PRO:HB2	1:A:1414:ILE:HD12	1.58	0.84
1:A:1743:MSE:O	1:A:1747:LEU:HB2	1.78	0.83
1:A:1992:VAL:O	1:A:1996:VAL:HG22	1.78	0.83
1:A:2542:LEU:HB2	1:A:2546:TYR:HE2	1.42	0.83
1:B:3687:MSE:O	1:B:3689:ASP:N	2.11	0.83
1:B:2152:ASN:HB3	1:B:2153:THR:HA	1.60	0.83
1:B:3900:LEU:HD21	1:B:3935:GLY:HA3	1.59	0.83
1:B:4103:GLN:O	1:B:4107:LEU:HB2	1.77	0.83
1:A:968:VAL:HG23	1:A:971:ARG:HD3	1.60	0.83
1:A:971:ARG:HG3	1:A:972:LEU:N	1.90	0.83
1:A:2415:LEU:O	1:A:2419:ASP:HB2	1.78	0.83
1:B:971:ARG:HG3	1:B:972:LEU:N	1.93	0.83
1:B:2813:PHE:HD2	1:B:2859:GLN:HG3	1.43	0.83
1:B:3499:ILE:HG23	1:B:3535:ILE:HD13	1.60	0.83
1:A:352:VAL:HG23	1:A:357:LYS:H	1.43	0.83
1:B:3521:ILE:O	1:B:3525:TYR:CB	2.27	0.83
1:B:2274:ILE:HD13	1:B:2318:ALA:HB2	1.60	0.83
1:A:61:ARG:O	1:A:65:LEU:HB2	1.77	0.83
1:A:4090:ARG:HH11	1:A:4106:CYS:HA	1.41	0.83
2:K:106:UNK:O	2:K:110:UNK:N	2.11	0.83
1:B:609:ALA:H	1:B:1798:LEU:HD12	1.43	0.83
1:B:1073:PHE:HD1	1:B:1074:LYS:H	1.27	0.83
1:B:3725:ARG:NH1	1:B:3737:ARG:HH22	1.76	0.83
1:A:2361:ILE:HD12	1:A:2364:LEU:HD12	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2478:MSE:O	1:A:2482:ASP:HB3	1.78	0.83
1:B:658:THR:HG22	1:B:659:ARG:HH11	1.41	0.83
1:B:215:PRO:HG3	1:B:251:PHE:HB3	1.59	0.83
1:B:245:SER:HA	1:B:248:ILE:HD12	1.58	0.83
1:B:2435:CYS:O	1:B:2439:ILE:HB	1.77	0.83
1:B:1087:ARG:HD3	1:B:1134:LEU:HB3	1.60	0.83
1:B:3012:GLU:HB2	1:B:3050:LYS:NZ	1.94	0.83
1:A:575:ILE:HA	1:A:578:LYS:HB2	1.61	0.83
1:B:3034:PRO:HG2	1:B:3037:GLN:HB2	1.61	0.83
1:A:1138:ILE:HD13	1:A:1150:LYS:HE2	1.60	0.82
1:A:3961:PHE:CE1	1:A:3963:LEU:HB2	2.14	0.82
1:A:3972:LEU:O	1:A:3974:MSE:N	2.10	0.82
1:B:2957:LEU:HD22	1:B:4100:GLU:HG3	1.61	0.82
1:A:1886:LYS:HZ2	1:A:1924:THR:HB	1.44	0.82
1:B:598:PRO:HB3	1:B:1022:ASP:HB2	1.59	0.82
1:B:1010:LEU:HB2	1:B:1028:PHE:CD1	2.14	0.82
1:A:1751:GLU:O	1:A:1755:SER:N	2.11	0.82
1:B:3737:ARG:HH11	1:B:3739:ILE:HD11	1.43	0.82
1:B:3816:LEU:HD21	1:B:3883:LEU:HD13	1.59	0.82
1:A:1651:LYS:HB3	1:A:1680:ALA:HB1	1.59	0.82
1:A:2196:TRP:CD2	1:A:2199:LEU:HD11	2.14	0.82
1:A:1007:VAL:O	1:A:1011:GLU:HB2	1.79	0.82
1:A:2002:LYS:O	1:A:2004:TYR:N	2.12	0.82
1:A:203:GLU:O	1:A:207:GLN:HB2	1.78	0.82
1:A:1070:PRO:HB2	1:A:1073:PHE:CZ	2.14	0.82
1:A:2049:VAL:HA	1:A:2052:TYR:HD2	1.42	0.82
1:A:3722:PHE:HE1	1:A:3740:ILE:HG12	1.44	0.82
1:A:4057:ALA:HB3	1:A:4059:ILE:HB	1.60	0.82
1:B:3751:LEU:O	1:B:3802:LEU:HG	1.80	0.82
1:A:70:ARG:HD3	1:A:82:ARG:HD3	1.59	0.82
1:A:959:TYR:O	1:A:963:LYS:HB2	1.80	0.82
1:A:3789:ARG:HH22	1:A:3806:LEU:HD22	1.42	0.82
1:B:488:ILE:HG21	1:B:616:LYS:HD2	1.60	0.82
1:B:2375:ALA:O	1:B:2379:MSE:CB	2.28	0.82
1:A:3152:SER:HB3	1:A:3153:SER:HB3	1.61	0.82
1:B:1346:THR:HG21	1:B:1401:ASN:HB3	1.62	0.82
1:B:1729:PHE:CE2	1:B:1870:LYS:HA	2.15	0.82
1:A:978:GLN:HA	1:A:981:ARG:HE	1.44	0.81
1:A:3820:MSE:HA	1:A:3882:LEU:HD22	1.62	0.81
1:B:974:CYS:HA	1:B:981:ARG:CD	2.07	0.81
1:B:2126:MSE:HG3	1:B:2129:LEU:HD12	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2531:LEU:HG	1:B:2538:ARG:HB2	1.62	0.81
1:A:3872:ARG:O	1:A:3876:SER:OG	1.98	0.81
1:B:956:PRO:HB2	1:B:957:PRO:HD3	1.62	0.81
1:B:3449:LYS:HA	1:B:3452:LYS:HD2	1.62	0.81
1:A:1155:ARG:HH12	1:A:1159:PRO:HD3	1.45	0.81
1:A:1696:LEU:HA	1:A:1700:THR:HG21	1.61	0.81
1:A:2167:PRO:O	1:A:2171:LEU:CB	2.28	0.81
1:A:3762:GLN:HA	1:A:3793:VAL:HG21	1.62	0.81
1:B:1729:PHE:CZ	1:B:1870:LYS:HG3	2.15	0.81
1:B:1744:LYS:HG3	1:B:1880:MSE:HE3	1.60	0.81
1:B:1930:GLU:N	1:B:1930:GLU:OE2	2.13	0.81
1:B:1987:ARG:O	1:B:1991:PRO:HD3	1.80	0.81
1:B:3044:MSE:O	1:B:3047:SER:OG	1.96	0.81
1:A:2167:PRO:O	1:A:2171:LEU:HB2	1.79	0.81
1:B:3498:TRP:CD1	1:B:3502:MSE:HB2	2.14	0.81
1:B:3572:ILE:HA	1:B:3575:LEU:HD22	1.62	0.81
1:A:2538:ARG:NH1	1:A:2562:LEU:O	2.13	0.81
1:A:3269:ARG:NH1	1:A:3312:VAL:HA	1.96	0.81
1:B:431:TYR:HA	1:B:434:VAL:HG12	1.63	0.81
1:B:1877:LEU:O	1:B:1920:TYR:OH	1.98	0.81
1:B:3238:MSE:SE	1:B:3242:MSE:SE	2.99	0.81
1:A:1080:LEU:HD12	1:A:1081:ALA:H	1.46	0.81
1:B:916:GLU:HB3	1:B:930:ALA:HB1	1.63	0.81
1:B:2260:PHE:HD1	1:B:2274:ILE:HG22	1.46	0.81
1:A:741:ILE:O	1:A:744:ASP:N	2.09	0.81
1:B:2031:LEU:HB2	1:B:2033:ASP:HB2	1.61	0.81
1:A:382:ASP:O	1:A:386:VAL:HB	1.79	0.81
1:A:1729:PHE:CZ	1:A:1870:LYS:HG3	2.16	0.81
1:A:2239:LYS:HG3	1:A:2279:ILE:HG23	1.62	0.81
1:A:3319:ASN:HD22	1:A:3407:ALA:HB1	1.45	0.81
1:B:1017:ILE:HG21	1:B:1025:LEU:HD22	1.63	0.81
1:B:2806:LYS:HZ1	1:B:2858:ILE:HG21	1.45	0.81
1:A:1594:SER:O	1:A:1598:ASN:HB2	1.81	0.81
1:B:1090:ARG:HH21	1:B:1100:VAL:HG11	1.45	0.81
1:A:977:ASP:HB3	1:A:981:ARG:H	1.46	0.81
1:B:891:ARG:HE	1:B:894:PHE:HB3	1.46	0.81
1:B:2379:MSE:HE1	1:B:2404:ARG:HD3	1.61	0.81
1:B:2446:LEU:O	1:B:2451:LEU:HB2	1.81	0.81
1:A:970:LEU:CD2	1:A:1031:ARG:HH21	1.94	0.80
1:A:1552:HIS:O	1:A:1555:HIS:ND1	2.14	0.80
1:B:959:TYR:O	1:B:963:LYS:HB2	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:459:ARG:HG2	1:A:540:MSE:HE1	1.60	0.80
1:A:3872:ARG:HH11	1:A:3965:ARG:HH12	1.27	0.80
1:B:1729:PHE:HZ	1:B:1870:LYS:HG3	1.45	0.80
1:B:3530:VAL:HG21	1:B:3701:ILE:HA	1.63	0.80
1:A:805:LEU:HD22	1:A:3125:ARG:HH11	1.45	0.80
1:A:2559:THR:HG21	1:A:2808:LEU:HD13	1.61	0.80
1:B:893:SER:HB3	1:B:906:PHE:HB2	1.63	0.80
1:B:931:CYS:SG	1:B:984:TYR:OH	2.39	0.80
1:B:1090:ARG:HH12	1:B:1096:VAL:HG13	1.45	0.80
1:A:2243:GLU:HA	1:A:2246:LYS:HD2	1.63	0.80
1:B:266:ALA:HB2	1:B:308:LEU:HG	1.63	0.80
1:A:369:PHE:CD1	1:A:416:SER:HA	2.17	0.80
1:A:619:ASP:O	1:A:622:ALA:N	2.14	0.80
1:A:3638:LYS:HA	1:A:3641:ASP:HB2	1.63	0.80
1:B:2253:TYR:CD1	1:B:2256:ILE:HD12	2.16	0.80
1:A:725:LEU:O	1:A:728:SER:OG	1.99	0.80
1:B:1996:VAL:HG11	1:B:2048:GLY:HA2	1.63	0.80
1:A:939:MSE:SE	1:A:2783:ILE:HG12	2.30	0.80
1:A:3046:ARG:NH2	1:A:3181:ASP:OD2	2.14	0.80
1:A:627:VAL:HG12	1:A:628:GLU:H	1.46	0.80
1:B:295:GLU:HA	1:B:298:LEU:HD22	1.63	0.80
1:A:705:ALA:HB1	1:A:1385:ASN:HD21	1.46	0.79
1:A:1429:GLU:O	1:A:1433:ALA:HB2	1.81	0.79
1:B:16:GLN:O	1:B:20:SER:HB3	1.81	0.79
1:B:3255:ALA:O	1:B:3282:ARG:NH2	2.15	0.79
1:B:1112:ALA:HA	1:B:1115:HIS:CE1	2.17	0.79
1:B:2546:TYR:HE1	1:B:2558:ALA:HB2	1.43	0.79
1:A:2861:ILE:HG21	1:A:2889:GLY:HA2	1.61	0.79
1:B:286:LEU:HB2	1:B:290:TYR:HB2	1.65	0.79
1:B:3252:PHE:HA	1:B:3282:ARG:HD2	1.65	0.79
1:B:726:LEU:HA	1:B:729:CYS:SG	2.22	0.79
1:B:1918:LEU:HD11	1:B:1957:ASN:HB3	1.63	0.79
1:B:2423:VAL:O	1:B:2425:ARG:N	2.15	0.79
1:B:2837:LEU:HD22	1:B:2868:LEU:HG	1.64	0.79
1:B:2987:THR:HB	1:B:2991:LYS:H	1.46	0.79
1:A:770:LEU:HD12	1:A:851:ILE:HD13	1.61	0.79
1:A:1886:LYS:HG3	1:A:1890:HIS:HE1	1.46	0.79
1:B:1410:PRO:HB2	1:B:1414:ILE:HD12	1.64	0.79
1:A:2474:TYR:HB3	1:A:2478:MSE:HE3	1.64	0.79
1:A:3989:ARG:HH21	1:A:4100:GLU:CB	1.95	0.79
1:B:12:LEU:HD22	1:B:38:LEU:HA	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3450:MSE:SE	1:A:3464:LYS:HG2	2.33	0.79
1:B:637:LYS:O	1:B:641:PHE:HB3	1.81	0.79
1:A:2351:GLN:O	1:A:2355:THR:OG1	2.00	0.79
1:B:298:LEU:HD23	1:B:316:LEU:HD13	1.62	0.79
1:B:1718:ILE:HG23	1:B:1750:LEU:HD11	1.62	0.79
1:A:767:GLU:HG3	1:A:851:ILE:HD11	1.65	0.79
1:A:796:LEU:HA	1:A:799:TYR:CE2	2.18	0.79
1:A:1000:LYS:O	1:A:1002:GLU:N	2.15	0.79
1:B:1655:ILE:HG23	1:B:1677:SER:HB3	1.65	0.79
1:B:2121:ASP:HA	1:B:2126:MSE:HB3	1.63	0.79
1:B:2443:MSE:HB3	1:B:2480:ILE:HG12	1.65	0.79
1:A:162:LEU:HD21	1:A:196:LEU:HD13	1.65	0.79
1:A:3955:VAL:HG12	1:A:4027:TRP:HE1	1.47	0.79
1:B:527:TYR:OH	1:B:619:ASP:N	2.16	0.79
1:B:627:VAL:HG12	1:B:628:GLU:H	1.46	0.79
1:B:3872:ARG:O	1:B:3876:SER:OG	2.00	0.79
1:A:714:VAL:HG13	1:A:734:LEU:HD13	1.65	0.78
1:A:3314:SER:HA	1:A:3315:TYR:HB3	1.64	0.78
1:A:3397:GLN:HE22	1:A:3449:LYS:HD3	1.49	0.78
1:B:1011:GLU:OE2	1:B:1062:ARG:NE	2.17	0.78
1:B:1029:CYS:HB3	1:B:1085:ILE:HG13	1.63	0.78
1:A:2890:ILE:HG21	1:A:2922:ARG:HH12	1.49	0.78
1:B:1762:MSE:SE	1:B:1896:ILE:HG23	2.33	0.78
1:B:2100:LEU:O	1:B:2104:MSE:HB2	1.82	0.78
1:B:2153:THR:OG1	1:B:2154:GLU:N	2.14	0.78
1:A:3736:LYS:HB3	1:A:3752:VAL:HB	1.64	0.78
1:A:3868:VAL:O	1:A:3872:ARG:CB	2.29	0.78
1:B:1986:ARG:HH12	1:B:2036:LEU:HD22	1.46	0.78
1:A:15:LEU:HD23	1:A:2359:LYS:HZ3	1.48	0.78
1:A:903:PRO:HB2	1:A:2811:SER:HB2	1.65	0.78
1:A:2379:MSE:HE1	1:A:2404:ARG:HH11	1.49	0.78
1:B:538:ASP:HB3	1:B:627:VAL:HG13	1.66	0.78
1:B:1802:TYR:HA	1:B:1805:PHE:HD2	1.47	0.78
1:B:2911:ARG:HG2	1:B:2914:ALA:HB3	1.66	0.78
1:A:3499:ILE:HG23	1:A:3535:ILE:HD13	1.63	0.78
1:A:3904:PHE:O	1:A:3907:SER:OG	2.01	0.78
1:B:3529:ILE:HG23	1:B:3532:PRO:HD2	1.63	0.78
1:B:439:VAL:HG11	1:B:479:ILE:HD13	1.65	0.78
1:B:553:VAL:HB	1:B:637:LYS:HZ2	1.48	0.78
1:A:376:ILE:HG13	1:A:381:VAL:HG21	1.65	0.78
1:A:2467:THR:HA	1:A:2470:ARG:HG3	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:808:GLU:CG	1:B:852:ARG:HH21	1.96	0.78
1:A:960:GLN:HG3	1:A:1009:LEU:HD21	1.65	0.78
1:B:3575:LEU:HG	1:B:3687:MSE:HG2	1.65	0.78
1:B:3923:ARG:NH2	1:B:3941:ASP:O	2.17	0.78
1:A:980:THR:HG23	1:A:984:TYR:HE1	1.49	0.78
1:B:281:GLN:HA	1:B:326:MSE:SE	2.34	0.78
1:A:1582:LEU:HD22	1:A:1600:MSE:HE1	1.66	0.77
1:A:3922:ASP:O	1:A:3927:ASN:ND2	2.17	0.77
1:B:2538:ARG:NH1	1:B:2565:MSE:HB3	1.98	0.77
1:B:3421:ASP:OD2	1:B:3464:LYS:NZ	2.16	0.77
1:A:87:LYS:HG2	1:A:133:LYS:HG3	1.66	0.77
1:A:1886:LYS:HG3	1:A:1890:HIS:CE1	2.19	0.77
1:A:2190:VAL:HG21	1:A:2241:LEU:HD13	1.66	0.77
1:A:3479:THR:O	1:A:3483:MSE:HB2	1.83	0.77
1:B:909:VAL:HG13	1:B:913:ARG:NH1	1.96	0.77
1:B:1407:LYS:O	1:B:1409:SER:N	2.14	0.77
1:B:2193:ILE:HA	1:B:2196:TRP:CZ2	2.20	0.77
1:A:1640:GLU:O	1:A:1644:ALA:HB2	1.85	0.77
1:A:1890:HIS:HB3	1:A:1937:ARG:HA	1.65	0.77
1:A:2253:TYR:CD1	1:A:2256:ILE:HD12	2.18	0.77
1:A:2879:GLY:HA2	1:A:2886:GLN:HG2	1.65	0.77
1:B:3012:GLU:HB2	1:B:3050:LYS:HZ1	1.48	0.77
1:B:3684:SER:O	1:B:3688:SER:OG	2.01	0.77
1:B:3732:LEU:HD21	1:B:3926:ASN:HD21	1.48	0.77
1:A:1073:PHE:HD1	1:A:1074:LYS:H	1.30	0.77
1:A:1374:GLN:HB3	1:A:1377:CYS:HB3	1.64	0.77
1:A:1590:THR:O	1:A:1592:MSE:N	2.16	0.77
1:A:1718:ILE:HA	1:A:1725:GLN:HE21	1.50	0.77
1:A:1946:ASN:ND2	1:A:1993:GLU:OE2	2.17	0.77
1:B:805:LEU:HD22	1:B:3125:ARG:NH1	2.00	0.77
1:B:979:VAL:HG21	1:B:2656:UNK:HA	1.66	0.77
1:B:2235:LEU:O	1:B:2239:LYS:N	2.16	0.77
1:B:2457:PRO:HA	1:B:2460:GLU:HB2	1.66	0.77
1:B:3137:GLU:OE1	1:B:3167:ARG:NH1	2.18	0.77
1:A:552:SER:O	1:A:556:SER:OG	2.02	0.77
1:A:977:ASP:HB2	1:A:981:ARG:HB3	1.64	0.77
1:A:2412:TYR:HE1	1:A:2415:LEU:HD23	1.48	0.77
1:A:2467:THR:HG22	1:A:2470:ARG:NH1	2.00	0.77
1:B:1080:LEU:HD13	1:B:1127:CYS:HB3	1.66	0.77
1:A:2083:LEU:O	1:A:2087:GLU:N	2.17	0.77
1:A:2161:ALA:HA	1:A:2164:TRP:CD1	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2847:THR:HB	1:A:2850:PHE:CD2	2.20	0.77
1:A:2891:ARG:NH2	1:A:3884:LYS:HD3	2.00	0.77
1:B:852:ARG:NH1	1:B:3111:MSE:SE	2.68	0.77
1:B:2300:PHE:HZ	1:B:2341:LEU:HB2	1.46	0.77
1:B:3148:GLN:HB2	1:B:3156:PRO:HB3	1.67	0.77
1:A:2049:VAL:HG11	1:A:2100:LEU:HD12	1.66	0.77
1:A:2890:ILE:HG21	1:A:2922:ARG:NH1	2.00	0.77
1:B:2459:VAL:HG21	1:B:2501:LEU:HD21	1.67	0.77
1:B:4057:ALA:HB3	1:B:4059:ILE:HB	1.65	0.77
1:A:67:VAL:O	1:A:71:LYS:HB2	1.83	0.77
1:A:2462:VAL:HB	1:A:2473:MSE:SE	2.35	0.77
1:A:3704:GLN:HB2	1:A:3796:MSE:HE2	1.66	0.77
1:A:3813:LYS:HE2	1:A:3926:ASN:HB2	1.67	0.77
1:B:385:TYR:HD1	1:B:420:VAL:HG13	1.49	0.77
1:B:446:PHE:HA	1:B:449:TYR:CE2	2.20	0.77
1:B:936:SER:HB3	1:B:2791:ILE:HG12	1.66	0.77
1:B:2236:GLU:HA	1:B:2239:LYS:HB3	1.67	0.77
1:B:3152:SER:HB3	1:B:3153:SER:HB3	1.65	0.77
1:B:3923:ARG:CG	1:B:3962:ARG:HH22	1.97	0.77
1:A:753:GLN:O	1:A:757:LYS:HB2	1.84	0.77
1:A:1343:GLU:O	1:A:1347:THR:HB	1.85	0.77
1:B:323:VAL:O	1:B:327:VAL:HB	1.84	0.77
1:B:1350:ASN:HD21	1:B:1404:LYS:HG2	1.47	0.77
1:B:1919:CYS:O	1:B:1923:PHE:HB2	1.85	0.77
1:B:1469:PRO:HA	1:B:1472:SER:HB3	1.67	0.77
1:A:1356:TRP:CZ2	1:A:1409:SER:HB3	2.20	0.76
1:A:2220:MSE:SE	1:A:2256:ILE:HD11	2.34	0.76
1:A:2239:LYS:O	1:A:2242:VAL:HB	1.85	0.76
1:A:2560:ASN:HB2	1:A:2800:ARG:HD3	1.66	0.76
1:B:2382:VAL:HG21	1:B:2404:ARG:HG3	1.64	0.76
1:B:3590:ASN:OD1	1:B:3593:ARG:NH2	2.18	0.76
1:A:46:SER:H	1:A:51:LEU:HD13	1.49	0.76
1:A:1086:TYR:HE2	1:A:1090:ARG:HE	1.33	0.76
1:A:1930:GLU:OE1	1:A:1987:ARG:NH1	2.18	0.76
1:A:2809:PHE:HB3	1:A:2859:GLN:NE2	1.99	0.76
1:B:16:GLN:O	1:B:20:SER:CB	2.32	0.76
1:B:942:LEU:HD22	1:B:2783:ILE:HG21	1.67	0.76
1:A:805:LEU:CD2	1:A:3125:ARG:HH11	1.99	0.76
1:A:1081:ALA:O	1:A:1085:ILE:HG12	1.86	0.76
1:A:3057:ALA:HB1	1:A:3062:LEU:HD11	1.67	0.76
1:B:1987:ARG:O	1:B:1990:PHE:N	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:890:LYS:HG3	1:A:891:ARG:HD3	1.66	0.76
1:A:2253:TYR:CE2	1:A:2287:PRO:HB3	2.19	0.76
1:B:2473:MSE:O	1:B:2476:ILE:HG12	1.85	0.76
1:B:3019:ILE:HG23	1:B:3021:SER:H	1.51	0.76
1:A:1966:LEU:HD22	1:A:1991:PRO:HB3	1.66	0.76
1:B:1594:SER:O	1:B:1598:ASN:HB2	1.85	0.76
1:B:2147:ALA:HB1	1:B:2151:ILE:HD12	1.67	0.76
1:B:2281:MSE:HE2	1:B:2322:VAL:HA	1.66	0.76
1:B:2883:SER:O	1:B:2886:GLN:HG3	1.84	0.76
1:A:971:ARG:HG3	1:A:972:LEU:H	1.50	0.76
1:A:2397:CYS:O	1:A:2401:VAL:HB	1.86	0.76
1:B:891:ARG:HE	1:B:894:PHE:CB	1.99	0.76
1:B:3479:THR:O	1:B:3483:MSE:HB2	1.86	0.76
1:A:385:TYR:CD1	1:A:420:VAL:HG13	2.18	0.76
1:A:638:GLN:HE22	1:A:669:LEU:HB2	1.51	0.76
1:A:3243:ILE:HD13	1:A:3262:LEU:HD22	1.65	0.76
1:B:185:HIS:H	1:B:186:PRO:HD2	1.49	0.76
1:B:1178:ARG:HB3	1:B:1179:PRO:HD3	1.68	0.76
1:B:2453:GLU:O	1:B:2457:PRO:HD3	1.85	0.76
1:A:1655:ILE:HD13	1:A:1681:ASP:HB3	1.68	0.76
1:A:2364:LEU:O	1:A:2368:THR:OG1	2.03	0.76
1:B:576:VAL:HG13	1:B:601:TRP:HE3	1.51	0.76
1:B:1138:ILE:HG21	1:B:1150:LYS:HE2	1.68	0.76
1:B:2891:ARG:HH22	1:B:3884:LYS:CD	1.88	0.76
1:B:3629:ARG:HH22	1:B:3638:LYS:NZ	1.84	0.76
1:A:3019:ILE:HG23	1:A:3021:SER:H	1.49	0.76
1:B:138:PHE:HD2	1:B:173:LYS:HE3	1.51	0.76
1:B:904:VAL:O	1:B:906:PHE:N	2.18	0.76
1:B:1091:GLU:HG2	1:B:1137:ILE:HG21	1.68	0.76
1:A:1700:THR:HA	1:A:1703:THR:HB	1.67	0.76
1:A:2313:LYS:HA	1:A:2316:TYR:CE2	2.21	0.76
1:B:1036:PHE:HA	1:B:1055:ASN:HD21	1.50	0.76
1:B:1070:PRO:HD3	1:B:1075:ARG:HD2	1.67	0.76
1:B:3534:ILE:HG12	1:B:3704:GLN:NE2	1.99	0.76
1:A:143:LEU:H	1:A:143:LEU:HD12	1.51	0.75
1:A:891:ARG:HG3	1:A:894:PHE:HB2	1.68	0.75
1:A:1007:VAL:O	1:A:1011:GLU:CB	2.33	0.75
1:A:1060:PHE:HA	1:A:1063:LEU:HD12	1.68	0.75
1:A:3176:MSE:HE2	1:A:3251:ASN:ND2	2.01	0.75
1:A:926:THR:O	1:A:930:ALA:HB3	1.85	0.75
1:A:661:PRO:HG2	1:A:733:LEU:HA	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3487:ILE:HG21	1:A:3495:PHE:HB2	1.67	0.75
1:B:2062:ALA:HB1	1:B:2066:PHE:HE2	1.52	0.75
1:B:2542:LEU:HB2	1:B:2546:TYR:HE2	1.51	0.75
1:B:3520:GLU:OE1	1:B:3524:ASN:ND2	2.19	0.75
1:B:3989:ARG:HH21	1:B:4100:GLU:CG	1.99	0.75
1:A:2183:HIS:CE1	1:A:2237:ILE:HG21	2.21	0.75
1:A:3487:ILE:HD11	1:A:3498:TRP:HH2	1.51	0.75
1:B:19:LEU:O	1:B:23:ASP:CB	2.33	0.75
1:B:608:PRO:HG2	1:B:1798:LEU:HG	1.68	0.75
1:B:3284:SER:CB	1:B:3287:ARG:HH21	1.99	0.75
1:A:1637:SER:O	1:A:1640:GLU:N	2.19	0.75
1:A:1751:GLU:HG2	1:A:1870:LYS:HE2	1.68	0.75
1:A:3305:SER:HA	1:A:3308:ASP:HB3	1.68	0.75
1:A:1118:GLU:HG3	1:A:3743:HIS:HE1	1.51	0.75
1:A:1587:VAL:HB	1:A:1643:MSE:HE2	1.68	0.75
1:A:2449:VAL:HA	1:A:2452:ARG:HD2	1.67	0.75
1:A:3979:LEU:HA	1:A:3981:TYR:HB3	1.67	0.75
1:B:153:PHE:HB2	1:B:157:TYR:HE2	1.52	0.75
1:B:1039:TRP:HZ2	1:B:1049:GLN:HA	1.52	0.75
1:B:1356:TRP:CZ2	1:B:1409:SER:HB3	2.22	0.75
1:B:1992:VAL:O	1:B:1996:VAL:HG22	1.85	0.75
1:B:3414:MSE:SE	1:B:3450:MSE:SE	3.04	0.75
1:A:3269:ARG:NH1	1:A:3312:VAL:HG12	2.02	0.75
1:B:2458:VAL:HA	1:B:2461:PHE:CE2	2.22	0.75
1:B:2887:PRO:HG3	1:B:2921:LEU:HD13	1.68	0.75
1:B:3243:ILE:HG21	1:B:3262:LEU:HD22	1.68	0.75
1:A:2363:CYS:O	1:A:2367:VAL:HG12	1.87	0.75
1:B:1086:TYR:CD2	1:B:1090:ARG:HG2	2.22	0.75
1:B:3144:PHE:CD1	1:B:3160:LEU:HD11	2.21	0.75
1:B:3491:PRO:HB3	1:B:3711:PRO:HB3	1.69	0.75
1:A:2300:PHE:CZ	1:A:2341:LEU:HB2	2.22	0.74
1:A:2372:PRO:HB2	1:A:2374:LEU:HD13	1.68	0.74
1:B:253:LEU:HD21	1:B:297:LEU:HA	1.68	0.74
1:B:353:ASP:O	1:B:1859:ASN:ND2	2.19	0.74
1:B:2806:LYS:HD3	1:B:2855:VAL:HG13	1.67	0.74
1:A:3583:LEU:HD11	1:A:3733:ARG:HB3	1.66	0.74
1:B:385:TYR:HE1	1:B:421:LEU:HD23	1.52	0.74
1:B:971:ARG:HG3	1:B:972:LEU:H	1.52	0.74
1:B:1217:VAL:HG13	1:B:1274:ARG:HH12	1.50	0.74
1:B:1977:ILE:O	1:B:1979:GLU:N	2.17	0.74
1:B:2253:TYR:CZ	1:B:2287:PRO:HB3	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2311:ARG:HG3	1:B:2363:CYS:HB2	1.70	0.74
1:A:766:ALA:O	1:A:768:VAL:N	2.17	0.74
1:A:1010:LEU:HD13	1:A:1028:PHE:HE1	1.51	0.74
1:A:3974:MSE:HB3	1:A:3976:GLU:H	1.52	0.74
1:B:714:VAL:HG12	1:B:734:LEU:HD11	1.69	0.74
1:B:978:GLN:O	1:B:981:ARG:HG2	1.88	0.74
1:B:4021:LEU:HD22	1:B:4028:ILE:HD12	1.68	0.74
1:A:2960:GLU:OE2	1:A:3289:ARG:NH1	2.19	0.74
1:B:616:LYS:HB3	1:B:617:PRO:HD2	1.68	0.74
1:B:1221:ILE:HG13	1:B:1274:ARG:HH11	1.53	0.74
1:B:3314:SER:HA	1:B:3315:TYR:HB3	1.68	0.74
1:B:3447:VAL:HG12	1:B:3468:LEU:HD22	1.69	0.74
1:A:1976:LEU:HD11	1:A:2031:LEU:HB3	1.69	0.74
1:B:2810:SER:HA	1:B:2813:PHE:CE2	2.23	0.74
1:B:3503:VAL:HG11	1:B:3535:ILE:HB	1.70	0.74
1:A:242:PRO:HB3	1:A:282:PHE:CD1	2.22	0.74
1:A:3323:PHE:O	1:A:3326:GLN:N	2.19	0.74
1:B:793:LEU:HG	1:B:796:LEU:HD12	1.68	0.74
1:B:1012:ALA:O	1:B:1015:ASP:HB3	1.87	0.74
1:B:3397:GLN:OE1	1:B:3397:GLN:N	2.19	0.74
1:B:3459:ASN:O	1:B:3462:ARG:HG2	1.87	0.74
1:B:4071:ALA:O	1:B:4075:ARG:CB	2.35	0.74
1:B:4084:SER:O	1:B:4088:ASN:N	2.21	0.74
1:A:3575:LEU:O	1:A:3577:GLN:N	2.21	0.74
1:A:3762:GLN:NE2	1:A:3763:ARG:HH11	1.85	0.74
1:B:2260:PHE:CD1	1:B:2274:ILE:HG22	2.23	0.74
1:B:4089:ILE:HB	1:B:4090:ARG:NH2	2.02	0.74
1:A:273:ARG:HD2	1:A:314:SER:HB3	1.69	0.74
1:A:726:LEU:HA	1:A:729:CYS:SG	2.28	0.74
1:A:940:PHE:CE2	1:A:2576:MSE:SE	2.91	0.74
1:A:2274:ILE:O	1:A:2277:LEU:N	2.21	0.74
1:A:2404:ARG:HG2	1:A:2408:MSE:HE3	1.68	0.74
1:A:2877:SER:O	1:A:2879:GLY:N	2.21	0.74
1:B:968:VAL:HG23	1:B:971:ARG:HD3	1.70	0.74
1:B:1871:MSE:HA	1:B:1874:TYR:HB2	1.70	0.74
1:B:2379:MSE:HE1	1:B:2404:ARG:NH1	2.03	0.74
1:B:2884:LEU:C	1:B:2887:PRO:HD2	2.13	0.74
1:B:3110:PHE:O	1:B:3114:TYR:HD1	1.69	0.74
1:A:432:THR:HG23	1:A:475:LEU:HD13	1.70	0.73
1:A:3034:PRO:HG2	1:A:3037:GLN:HB2	1.69	0.73
1:B:170:VAL:HG23	1:B:173:LYS:HZ1	1.50	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2068:ARG:O	1:B:2070:GLU:N	2.20	0.73
1:B:2253:TYR:CE2	1:B:2287:PRO:HB3	2.23	0.73
1:B:2379:MSE:SE	1:B:2404:ARG:HD3	2.38	0.73
1:B:3928:PHE:HD2	1:B:3962:ARG:HH21	1.35	0.73
1:A:1132:ASP:HA	1:A:1135:CYS:SG	2.28	0.73
1:A:3176:MSE:HE1	1:A:3179:TRP:HE3	1.54	0.73
1:B:1073:PHE:CE2	1:B:3745:GLU:HA	2.23	0.73
1:B:1985:LYS:HD2	1:B:2037:SER:HB3	1.69	0.73
1:B:2507:ILE:HA	1:B:2510:LEU:HD12	1.69	0.73
1:A:760:LEU:HD13	1:A:802:THR:OG1	1.88	0.73
1:A:2142:ILE:HA	1:A:2145:PHE:HD2	1.51	0.73
1:A:2222:HIS:O	1:A:2225:HIS:N	2.16	0.73
1:B:886:TRP:HD1	1:B:889:GLU:H	1.35	0.73
1:B:1342:MSE:HE2	1:B:1398:VAL:HG12	1.70	0.73
1:B:3493:TRP:HE3	1:B:3713:PRO:HB3	1.53	0.73
1:B:363:ILE:O	1:B:367:GLY:N	2.18	0.73
1:A:2549:LYS:NZ	1:A:2554:PHE:HA	2.02	0.73
1:A:2872:ASP:O	1:A:2913:LYS:NZ	2.21	0.73
1:B:2404:ARG:NH1	1:B:2412:TYR:CZ	2.56	0.73
1:B:2917:PRO:HA	1:B:2920:VAL:HG12	1.70	0.73
1:B:3432:SER:HB2	1:B:3435:ASP:HB2	1.69	0.73
1:A:2253:TYR:HB2	1:A:2291:GLN:HG2	1.70	0.73
1:A:4066:LEU:HG	1:A:4075:ARG:HA	1.71	0.73
1:B:174:VAL:O	1:B:178:LEU:HG	1.88	0.73
1:B:1142:HIS:O	1:B:1144:SER:N	2.20	0.73
1:B:2851:PHE:HA	1:B:2854:PHE:CD2	2.24	0.73
1:B:3323:PHE:O	1:B:3326:GLN:HG2	1.88	0.73
1:A:170:VAL:HG23	1:A:173:LYS:HD3	1.71	0.73
1:A:1115:HIS:O	1:A:1119:LYS:N	2.22	0.73
1:A:2883:SER:O	1:A:2886:GLN:HG3	1.87	0.73
1:B:629:PHE:CZ	1:B:666:PHE:HD1	2.07	0.73
1:B:989:MSE:HE2	1:B:1031:ARG:HH12	1.54	0.73
1:B:2004:TYR:CD1	1:B:2054:TYR:HB3	2.23	0.73
1:B:3167:ARG:HG3	1:B:3167:ARG:NH1	2.02	0.73
1:B:4010:SER:O	1:B:4015:ASN:N	2.21	0.73
1:A:70:ARG:HH22	1:A:117:LYS:HE3	1.54	0.73
1:A:567:GLU:OE2	1:A:1798:LEU:HB3	1.89	0.73
1:A:4010:SER:O	1:A:4015:ASN:N	2.22	0.73
1:B:153:PHE:HB2	1:B:157:TYR:CE2	2.24	0.73
1:B:1070:PRO:HB2	1:B:1073:PHE:CZ	2.24	0.73
1:B:2027:SER:HB2	1:B:2030:TYR:OH	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2321:GLU:OE2	1:B:2325:LEU:HD22	1.89	0.73
1:B:3944:HIS:HA	1:B:4016:PHE:HZ	1.53	0.73
1:A:1984:LEU:O	1:A:1988:TYR:HB3	1.89	0.73
1:A:2571:ASP:O	1:A:2789:SER:OG	2.06	0.73
1:A:3167:ARG:O	1:A:3186:ARG:NH2	2.22	0.73
1:B:1014:LEU:HB2	1:B:1078:ALA:HB1	1.71	0.73
1:B:1890:HIS:HB3	1:B:1937:ARG:HA	1.69	0.73
1:A:19:LEU:O	1:A:23:ASP:HB2	1.89	0.73
1:A:1009:LEU:O	1:A:1012:ALA:N	2.22	0.73
1:A:1890:HIS:HB2	1:A:1937:ARG:HD2	1.71	0.73
1:A:2157:PHE:CE1	1:A:2203:THR:HB	2.23	0.73
1:A:2925:GLU:HB3	1:A:3121:LEU:HD11	1.70	0.73
1:B:730:LEU:HA	1:B:733:LEU:HD12	1.71	0.73
1:A:543:SER:C	1:A:545:LEU:H	1.95	0.72
1:A:609:ALA:O	1:A:613:HIS:ND1	2.20	0.72
1:A:3048:LYS:HD3	1:A:3061:LEU:HD23	1.71	0.72
1:B:1651:LYS:O	1:B:1655:ILE:HD12	1.89	0.72
1:B:2918:PRO:HA	1:B:2921:LEU:HG	1.70	0.72
1:A:253:LEU:HD11	1:A:297:LEU:HB3	1.71	0.72
1:A:1087:ARG:HD3	1:A:1134:LEU:HD22	1.71	0.72
1:A:1374:GLN:O	1:A:1378:GLU:N	2.21	0.72
1:A:3276:TRP:HB3	1:A:3280:TYR:CZ	2.24	0.72
1:B:398:THR:HG22	1:B:1865:THR:HG21	1.70	0.72
1:B:535:LEU:HD22	1:B:626:LEU:HG	1.72	0.72
1:B:990:GLN:HA	1:B:993:HIS:CD2	2.24	0.72
1:B:2896:ALA:HA	1:B:2899:ARG:NH2	2.04	0.72
1:B:3876:SER:HB3	1:B:4127:TRP:O	1.87	0.72
1:A:1070:PRO:HG3	1:A:1075:ARG:HB2	1.70	0.72
1:A:1743:MSE:SE	1:A:1880:MSE:SE	3.07	0.72
1:B:471:LYS:HA	1:B:1553:PHE:HE2	1.53	0.72
1:B:1349:LEU:HD21	1:B:1359:LEU:HB2	1.70	0.72
1:B:1886:LYS:NZ	1:B:1948:ALA:HB2	2.05	0.72
1:B:2222:HIS:O	1:B:2225:HIS:N	2.19	0.72
1:A:978:GLN:O	1:A:981:ARG:HG2	1.89	0.72
1:A:2311:ARG:HG3	1:A:2363:CYS:HB2	1.69	0.72
1:A:3284:SER:HA	1:A:3287:ARG:HE	1.55	0.72
1:B:526:ASP:HB2	1:B:529:ASP:OD2	1.89	0.72
1:B:967:PRO:HA	1:B:970:LEU:HD23	1.69	0.72
1:B:1014:LEU:HA	1:B:1025:LEU:HD13	1.69	0.72
1:B:1115:HIS:O	1:B:1119:LYS:N	2.22	0.72
1:A:1456:LYS:HA	1:A:1459:HIS:HD2	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4082:ARG:HG3	1:A:4091:ALA:CB	2.19	0.72
1:A:1456:LYS:HA	1:A:1459:HIS:CD2	2.23	0.72
1:A:2260:PHE:O	1:A:2262:GLY:N	2.22	0.72
1:A:2542:LEU:HB2	1:A:2546:TYR:CE2	2.25	0.72
1:A:3045:ILE:O	1:A:3048:LYS:HB3	1.89	0.72
1:A:3130:GLN:HG3	1:A:3178:ILE:HG12	1.72	0.72
1:B:2860:ASP:HB3	1:B:2868:LEU:HD22	1.72	0.72
1:A:367:GLY:C	1:A:369:PHE:H	1.98	0.72
1:A:737:PRO:HA	1:A:740:ILE:HD12	1.70	0.72
1:A:1723:PRO:C	1:A:1725:GLN:H	1.97	0.72
1:A:1871:MSE:HA	1:A:1874:TYR:HB2	1.71	0.72
1:A:2193:ILE:HA	1:A:2196:TRP:CZ2	2.24	0.72
1:B:3583:LEU:O	1:B:3587:ASP:HB2	1.88	0.72
1:A:349:ILE:HG12	1:A:364:ARG:HD2	1.72	0.72
1:A:434:VAL:HA	1:A:437:HIS:CE1	2.24	0.72
1:A:3015:SER:O	1:A:3019:ILE:N	2.21	0.72
1:B:1802:TYR:O	1:B:1805:PHE:N	2.22	0.72
1:B:2177:ASN:HD22	1:B:2182:ILE:HG22	1.54	0.72
1:B:2563:LEU:O	1:B:2567:SER:OG	2.06	0.72
1:A:2300:PHE:HZ	1:A:2341:LEU:HB2	1.54	0.72
1:A:3592:VAL:HG22	1:A:3609:MSE:SE	2.40	0.72
1:B:868:LYS:HA	1:B:871:LEU:HD12	1.71	0.72
1:B:2837:LEU:HA	1:B:2840:PHE:CD2	2.25	0.72
1:B:3579:SER:OG	1:B:3580:ASN:N	2.22	0.72
1:A:358:GLU:HA	1:A:1858:LEU:HD22	1.71	0.72
1:A:871:LEU:HD11	1:A:3122:HIS:HE1	1.55	0.72
1:A:3256:MSE:HE2	1:A:3282:ARG:NH1	2.03	0.72
1:A:3432:SER:HB2	1:A:3435:ASP:HB2	1.72	0.72
1:B:649:PHE:CE1	1:B:657:SER:HB2	2.25	0.72
1:B:721:TYR:CE1	1:B:1121:LEU:HD21	2.24	0.72
1:B:1090:ARG:HA	1:B:1090:ARG:NE	2.05	0.72
1:B:1886:LYS:HZ3	1:B:1948:ALA:HB2	1.55	0.72
1:B:2313:LYS:HG3	1:B:2314:GLU:OE2	1.90	0.72
1:B:2961:ALA:HB1	1:B:3002:TYR:HD1	1.54	0.72
1:A:1870:LYS:HG2	1:A:1871:MSE:HE2	1.71	0.71
1:B:2239:LYS:HG3	1:B:2279:ILE:HG23	1.72	0.71
1:B:3326:GLN:OE1	1:B:3393:GLU:HA	1.90	0.71
1:A:1306:ILE:HG12	1:A:1334:LYS:HB3	1.72	0.71
1:A:2323:LEU:HD21	1:A:2345:VAL:HG21	1.72	0.71
1:A:2423:VAL:HG13	1:A:2424:MSE:H	1.55	0.71
1:A:2433:LYS:HG3	1:A:2436:LEU:HD12	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:932:GLU:HG3	1:B:2636:UNK:HA	1.72	0.71
1:B:1032:CYS:HB3	1:B:1036:PHE:CZ	2.25	0.71
1:B:3593:ARG:HA	1:B:3596:LEU:HD12	1.72	0.71
1:A:2312:TYR:HE2	1:A:2314:GLU:HG2	1.55	0.71
1:A:2453:GLU:O	1:A:2457:PRO:HD3	1.90	0.71
1:A:3503:VAL:HG11	1:A:3535:ILE:HB	1.72	0.71
1:A:3982:SER:O	1:A:3986:HIS:ND1	2.22	0.71
1:B:403:GLY:C	1:B:405:ASP:H	1.98	0.71
1:B:602:MSE:SE	1:B:726:LEU:HD13	2.40	0.71
1:B:1349:LEU:HA	1:B:1353:PRO:HD2	1.71	0.71
1:B:1761:LEU:HD22	1:B:1860:GLU:HB3	1.73	0.71
1:A:922:SER:HB3	1:A:926:THR:HG23	1.72	0.71
1:A:967:PRO:HA	1:A:970:LEU:HD23	1.70	0.71
1:A:1977:ILE:O	1:A:1979:GLU:N	2.18	0.71
1:A:2070:GLU:HA	1:A:2071:GLN:HB2	1.72	0.71
1:A:616:LYS:HB3	1:A:617:PRO:HD2	1.72	0.71
1:A:2281:MSE:HE2	1:A:2322:VAL:HA	1.73	0.71
1:A:2435:CYS:O	1:A:2439:ILE:HB	1.89	0.71
1:A:3677:PRO:O	1:A:3679:ASN:N	2.22	0.71
1:B:491:CYS:SG	1:B:492:SER:N	2.62	0.71
1:B:560:LEU:HB3	1:B:616:LYS:HE2	1.73	0.71
1:B:1762:MSE:HB2	1:B:1896:ILE:HG12	1.72	0.71
1:B:2883:SER:O	1:B:2885:GLN:N	2.22	0.71
1:B:2884:LEU:HB3	1:B:3895:GLU:HG3	1.73	0.71
1:B:2970:LYS:NZ	1:B:2974:GLU:OE2	2.22	0.71
1:B:3130:GLN:HG3	1:B:3178:ILE:HG12	1.73	0.71
1:A:2535:THR:O	1:A:2538:ARG:HG2	1.89	0.71
1:B:204:LEU:HD22	1:B:219:VAL:HG12	1.71	0.71
1:B:808:GLU:HG2	1:B:852:ARG:NH2	2.06	0.71
1:B:3471:ILE:HG23	1:B:3472:ILE:HG13	1.73	0.71
1:A:1256:TRP:O	1:A:1260:LEU:N	2.17	0.71
1:A:3257:LYS:HA	1:A:3260:LYS:HD2	1.73	0.71
1:A:3427:GLU:HB3	1:A:3439:LEU:HD22	1.71	0.71
1:A:3835:PRO:HA	1:A:3871:PHE:HE1	1.54	0.71
1:A:3875:GLU:HG2	1:A:4127:TRP:HB3	1.72	0.71
1:B:1702:LEU:O	1:B:1706:SER:HB3	1.91	0.71
1:B:3587:ASP:HB3	1:B:4022:LYS:HZ2	1.55	0.71
1:A:396:PHE:CZ	1:A:397:LEU:HG	2.25	0.71
1:A:705:ALA:HB1	1:A:1385:ASN:ND2	2.05	0.71
1:A:756:PHE:HA	1:A:773:LEU:HD13	1.73	0.71
1:A:1609:ALA:HB3	1:A:1806:ARG:NH2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1745:LYS:O	1:A:1747:LEU:N	2.24	0.71
1:A:2538:ARG:HH12	1:A:2566:THR:H	1.36	0.71
1:B:2043:PHE:O	1:B:2047:THR:OG1	2.09	0.71
1:B:2200:ALA:HA	1:B:2203:THR:HG22	1.73	0.71
1:A:446:PHE:O	1:A:533:HIS:NE2	2.24	0.71
1:A:621:SER:HB3	1:A:659:ARG:NH2	2.06	0.71
1:A:2152:ASN:HB3	1:A:2153:THR:HA	1.72	0.71
1:B:454:GLN:HG3	1:B:533:HIS:HE1	1.54	0.71
1:B:1798:LEU:O	1:B:1802:TYR:HB2	1.90	0.71
1:B:3464:LYS:HG3	1:B:3468:LEU:HD11	1.72	0.71
1:A:1681:ASP:OD1	1:A:1682:THR:N	2.23	0.71
1:A:2478:MSE:O	1:A:2482:ASP:CB	2.37	0.71
1:A:3813:LYS:HG2	1:A:3926:ASN:HA	1.73	0.71
1:B:560:LEU:HD11	1:B:645:TRP:CZ2	2.26	0.71
1:B:1267:TYR:O	1:B:1271:ILE:HG13	1.90	0.71
1:B:1464:LEU:HB2	1:B:1468:LEU:HD12	1.73	0.71
1:B:3155:VAL:HG21	1:B:3159:ARG:NH2	2.06	0.71
1:B:3875:GLU:O	1:B:3879:PRO:HD3	1.91	0.71
1:A:660:LEU:O	1:A:664:SER:OG	2.08	0.70
1:A:941:MSE:HB2	1:A:958:MSE:HE3	1.73	0.70
1:A:1880:MSE:SE	1:A:1881:TYR:HD1	2.23	0.70
1:A:2260:PHE:CZ	1:A:2303:LEU:HA	2.25	0.70
1:A:2312:TYR:CE2	1:A:2314:GLU:HG2	2.25	0.70
1:B:514:VAL:HG12	1:B:604:PRO:HG3	1.73	0.70
1:B:982:GLN:O	1:B:986:PRO:HD3	1.91	0.70
1:B:1060:PHE:HA	1:B:1063:LEU:HD12	1.72	0.70
1:B:1138:ILE:HD13	1:B:1150:LYS:HE2	1.73	0.70
1:B:2161:ALA:HA	1:B:2164:TRP:CD1	2.25	0.70
1:B:2227:LYS:HG3	1:B:2232:ARG:HA	1.73	0.70
1:B:3772:ASN:ND2	1:B:3788:LEU:H	1.89	0.70
1:B:4048:LYS:O	1:B:4051:LEU:HB3	1.91	0.70
1:A:1655:ILE:HG23	1:A:1677:SER:HB3	1.73	0.70
1:A:3498:TRP:HD1	1:A:3502:MSE:HB2	1.56	0.70
1:B:575:ILE:HD11	1:B:579:LEU:HD22	1.70	0.70
1:B:913:ARG:NE	1:B:916:GLU:OE2	2.24	0.70
1:B:3340:ALA:O	1:B:3343:SER:N	2.24	0.70
1:A:1403:MSE:HE1	1:A:1419:LEU:HD21	1.73	0.70
1:A:2137:ILE:HB	1:A:2170:GLN:HE22	1.55	0.70
1:A:3989:ARG:HH21	1:A:4100:GLU:HB3	1.55	0.70
1:B:2086:ASP:HB3	1:B:2090:ARG:HH21	1.55	0.70
1:B:2896:ALA:HA	1:B:2899:ARG:HH21	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1472:SER:HA	1:B:1476:HIS:CD2	2.26	0.70
1:B:2161:ALA:HB1	1:B:2211:LEU:HD13	1.71	0.70
1:B:2260:PHE:O	1:B:2262:GLY:N	2.24	0.70
1:A:527:TYR:OH	1:A:619:ASP:N	2.22	0.70
1:A:1593:VAL:O	1:A:1597:LEU:HB2	1.91	0.70
1:A:3044:MSE:O	1:A:3047:SER:OG	2.04	0.70
1:B:989:MSE:HE2	1:B:1031:ARG:NH1	2.07	0.70
1:B:1155:ARG:NH2	1:B:1230:GLY:O	2.24	0.70
1:B:2379:MSE:CE	1:B:2404:ARG:HD3	2.20	0.70
1:A:446:PHE:HD1	1:A:446:PHE:H	1.36	0.70
1:B:1017:ILE:HB	1:B:1025:LEU:HB2	1.74	0.70
1:B:2412:TYR:HD2	1:B:2416:LYS:HE3	1.57	0.70
1:B:2936:TYR:HD2	1:B:3979:LEU:HD21	1.56	0.70
1:A:2030:TYR:HD1	1:A:2031:LEU:HG	1.57	0.70
1:A:3917:ILE:HG22	1:A:3918:LEU:HD22	1.72	0.70
1:B:1416:GLU:O	1:B:1420:ARG:HB2	1.91	0.70
1:B:2535:THR:O	1:B:2538:ARG:HG2	1.92	0.70
1:B:2945:SER:O	1:B:2949:THR:HG23	1.90	0.70
1:A:3592:VAL:HA	1:A:3609:MSE:SE	2.41	0.70
1:B:848:LEU:HA	1:B:851:ILE:HD12	1.74	0.70
1:B:2112:GLN:OE1	1:B:2120:ARG:NH2	2.24	0.70
1:A:1592:MSE:O	1:A:1594:SER:N	2.24	0.70
1:B:932:GLU:HB3	1:B:2794:LEU:HD13	1.73	0.70
1:B:1445:ARG:HA	1:B:1448:LEU:HD12	1.74	0.70
1:B:2260:PHE:CE2	1:B:2303:LEU:HA	2.27	0.70
1:B:3498:TRP:HE1	1:B:3502:MSE:SE	2.25	0.70
1:B:3638:LYS:HA	1:B:3641:ASP:OD2	1.91	0.70
1:B:3772:ASN:HB2	1:B:3787:GLN:CG	2.19	0.70
1:A:527:TYR:CE1	1:A:615:ALA:HB1	2.26	0.70
1:A:1014:LEU:HD13	1:A:1078:ALA:HB1	1.72	0.70
1:A:1737:ASN:C	1:A:1739:TYR:H	2.00	0.70
1:A:1918:LEU:HD22	1:A:1958:GLU:HB3	1.72	0.70
1:A:2239:LYS:HE2	1:A:2240:THR:HG22	1.73	0.70
1:B:19:LEU:HD22	1:B:30:ALA:HB1	1.72	0.70
1:B:177:LEU:O	1:B:180:LEU:N	2.25	0.70
1:B:970:LEU:CD2	1:B:1031:ARG:HH21	2.05	0.70
1:A:114:VAL:HG11	1:A:130:LEU:HD11	1.72	0.69
1:A:990:GLN:HA	1:A:993:HIS:HD2	1.57	0.69
1:A:1249:SER:O	1:A:1253:THR:HB	1.92	0.69
1:A:1877:LEU:O	1:A:1920:TYR:OH	2.09	0.69
1:A:2781:PRO:HB2	1:A:2786:LYS:HD3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3687:MSE:O	1:A:3689:ASP:N	2.25	0.69
1:B:629:PHE:HZ	1:B:666:PHE:HD1	1.40	0.69
1:B:1985:LYS:O	1:B:1989:ASN:ND2	2.22	0.69
1:B:2253:TYR:HB2	1:B:2291:GLN:CG	2.22	0.69
1:B:2452:ARG:HA	1:B:2455:LEU:HD12	1.73	0.69
1:B:3119:VAL:HG21	1:B:3899:ALA:HB1	1.74	0.69
1:B:3284:SER:HB2	1:B:3287:ARG:NH2	2.04	0.69
1:B:3910:LEU:O	1:B:3914:SER:OG	2.07	0.69
1:A:1378:GLU:OE2	1:A:1382:ILE:HG23	1.92	0.69
1:A:1469:PRO:HA	1:A:1472:SER:HB3	1.74	0.69
1:B:436:GLU:OE2	1:B:475:LEU:HD12	1.93	0.69
1:B:743:LEU:O	1:B:746:ARG:NH1	2.25	0.69
1:A:718:MSE:HE3	1:A:731:THR:HG22	1.74	0.69
1:A:718:MSE:HE2	1:A:754:MSE:HG3	1.75	0.69
1:A:1996:VAL:HG23	1:A:1997:PRO:CD	2.22	0.69
1:A:2071:GLN:HA	1:A:2074:PRO:HG2	1.73	0.69
1:A:2958:LEU:O	1:A:3289:ARG:NH2	2.25	0.69
1:B:660:LEU:O	1:B:663:ILE:HG13	1.91	0.69
1:A:1583:MSE:SE	1:A:1643:MSE:SE	3.09	0.69
1:A:1651:LYS:O	1:A:1655:ILE:HD12	1.92	0.69
1:A:2038:GLU:OE1	1:A:2076:VAL:HG22	1.93	0.69
1:A:2153:THR:OG1	1:A:2154:GLU:N	2.18	0.69
1:B:512:GLY:HA2	1:B:602:MSE:HG3	1.73	0.69
1:B:629:PHE:CE2	1:B:668:LYS:HB2	2.28	0.69
1:B:1087:ARG:HD2	1:B:1137:ILE:HD11	1.74	0.69
1:B:1412:LYS:HA	1:B:1415:LEU:HD12	1.72	0.69
1:B:2806:LYS:NZ	1:B:2858:ILE:HG21	2.06	0.69
1:B:3979:LEU:HA	1:B:3981:TYR:HB3	1.74	0.69
1:A:334:HIS:CE1	1:A:338:LEU:HD21	2.28	0.69
1:B:86:LEU:HD23	1:B:89:LEU:HD12	1.72	0.69
1:B:272:LEU:HB3	1:B:319:PHE:CZ	2.27	0.69
1:B:722:LYS:HB3	1:B:727:ALA:HA	1.74	0.69
1:B:2813:PHE:CD2	1:B:2859:GLN:HG3	2.25	0.69
1:A:2216:LEU:HD22	1:A:2249:LEU:HD11	1.73	0.69
1:A:2452:ARG:HE	1:A:2498:ILE:HD11	1.57	0.69
1:A:3810:VAL:HG23	1:A:3815:LEU:HD11	1.74	0.69
1:B:2413:PHE:CE1	1:B:2442:MSE:HB3	2.27	0.69
1:B:2430:GLU:HG3	1:B:2465:PRO:HB3	1.74	0.69
1:B:3574:ALA:HA	1:B:3577:GLN:HB2	1.75	0.69
1:A:723:ASP:HB2	1:A:726:LEU:HD12	1.74	0.69
1:A:1445:ARG:HA	1:A:1448:LEU:HD12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2304:VAL:HG13	1:A:2348:GLN:HE21	1.57	0.69
1:A:2329:TYR:O	1:A:2333:ARG:N	2.25	0.69
1:A:2464:HIS:H	1:A:2465:PRO:HD3	1.56	0.69
1:B:65:LEU:O	1:B:69:VAL:HB	1.93	0.69
1:B:2196:TRP:HE1	1:B:2200:ALA:HB2	1.58	0.69
1:B:3654:MSE:SE	1:B:3659:PHE:HB3	2.42	0.69
1:A:19:LEU:HB2	1:A:34:LEU:HD13	1.75	0.69
1:A:368:LEU:HD23	1:A:372:PRO:HG2	1.74	0.69
1:A:462:VAL:HG11	1:A:540:MSE:SE	2.42	0.69
1:A:602:MSE:SE	1:A:726:LEU:HD13	2.42	0.69
1:A:1018:VAL:HB	1:A:1074:LYS:HA	1.75	0.69
1:A:1059:LEU:HD22	1:A:1063:LEU:HD11	1.75	0.69
1:A:1507:CYS:SG	1:A:1508:LYS:N	2.65	0.69
1:A:1685:ASP:HB2	1:A:1727:ARG:NH2	2.06	0.69
1:A:2125:TRP:O	1:A:2127:LYS:N	2.25	0.69
1:A:3046:ARG:HH22	1:A:3181:ASP:CG	1.99	0.69
1:A:3974:MSE:HB3	1:A:3976:GLU:HB3	1.74	0.69
1:B:135:LEU:HD13	1:B:170:VAL:HB	1.75	0.69
1:B:414:LEU:HD23	1:B:460:ALA:HB1	1.74	0.69
1:B:434:VAL:HA	1:B:437:HIS:CE1	2.28	0.69
1:B:2351:GLN:O	1:B:2355:THR:OG1	2.07	0.69
1:B:2555:LEU:O	1:B:2558:ALA:HB3	1.92	0.69
1:A:870:LEU:HA	1:A:873:VAL:HB	1.75	0.69
1:A:2187:VAL:O	1:A:2190:VAL:HG22	1.93	0.69
1:A:4121:TRP:HD1	1:A:4123:GLY:H	1.40	0.69
1:B:1086:TYR:HD2	1:B:1090:ARG:HG2	1.58	0.69
1:B:1955:VAL:HG12	1:B:1957:ASN:HB2	1.75	0.69
1:A:934:LEU:HD21	1:A:962:TYR:CE1	2.28	0.69
1:A:1569:THR:O	1:A:1573:LYS:HB2	1.93	0.69
1:A:3048:LYS:NZ	1:A:3089:LEU:HB3	2.08	0.69
1:B:917:LEU:HD21	1:B:934:LEU:HD13	1.74	0.69
1:B:935:HIS:NE2	1:B:987:LEU:HG	2.09	0.69
1:B:1799:GLU:HA	1:B:1802:TYR:HB2	1.74	0.69
1:B:3587:ASP:HB3	1:B:4022:LYS:NZ	2.08	0.69
1:B:3772:ASN:ND2	1:B:3788:LEU:O	2.26	0.69
1:A:202:GLY:O	1:A:206:THR:OG1	2.10	0.68
1:A:970:LEU:HD22	1:A:1031:ARG:HH21	1.58	0.68
1:A:977:ASP:HB3	1:A:981:ARG:N	2.08	0.68
1:A:1763:THR:OG1	1:A:1864:ASP:OD2	2.09	0.68
1:A:3114:TYR:CE1	1:A:3128:LYS:HD3	2.28	0.68
1:B:999:LYS:HD3	1:B:1000:LYS:H	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1080:LEU:CD1	1:B:1127:CYS:HB3	2.23	0.68
1:B:1598:ASN:CG	1:B:1811:ARG:HG2	2.19	0.68
1:B:2074:PRO:O	1:B:2077:HIS:N	2.26	0.68
1:B:2283:ASN:O	1:B:2287:PRO:HD3	1.92	0.68
1:B:2365:ASN:HD21	1:B:2382:VAL:HG11	1.58	0.68
1:B:2951:GLN:OE1	1:B:2972:TYR:OH	2.10	0.68
1:A:3312:VAL:O	1:A:3314:SER:N	2.26	0.68
1:B:745:VAL:HG11	1:B:776:TRP:CZ2	2.27	0.68
1:B:3631:LYS:HB3	1:B:3682:GLU:HA	1.76	0.68
1:A:1722:PHE:CD2	1:A:1754:GLN:HG2	2.29	0.68
1:B:345:PHE:HD2	1:B:367:GLY:HA3	1.59	0.68
1:B:398:THR:O	1:B:401:ASP:N	2.24	0.68
1:B:3435:ASP:O	1:B:3439:LEU:CB	2.41	0.68
1:A:2177:ASN:HD22	1:A:2182:ILE:HG22	1.57	0.68
1:A:2283:ASN:ND2	1:A:2284:ASP:OD2	2.26	0.68
1:B:1165:LEU:HA	1:B:1168:LEU:HD12	1.76	0.68
1:B:2242:VAL:HG12	1:B:2246:LYS:HE3	1.75	0.68
1:A:1917:LYS:HE2	1:A:1955:VAL:HB	1.74	0.68
1:A:1937:ARG:O	1:A:1941:HIS:HB2	1.92	0.68
1:A:2271:SER:HB2	1:A:2314:GLU:HG3	1.75	0.68
1:A:2900:LEU:HB2	1:A:2910:VAL:HA	1.75	0.68
1:A:3955:VAL:HG23	1:A:4121:TRP:CE3	2.28	0.68
1:B:721:TYR:HE1	1:B:1121:LEU:HD21	1.58	0.68
1:B:1989:ASN:HB3	1:B:2040:MSE:HB3	1.75	0.68
1:B:2274:ILE:O	1:B:2277:LEU:N	2.27	0.68
1:B:4113:ASP:HB3	1:B:4116:ILE:HG13	1.75	0.68
1:A:793:LEU:HG	1:A:796:LEU:HD12	1.75	0.68
1:A:940:PHE:CZ	1:A:2791:ILE:HG21	2.28	0.68
1:A:1382:ILE:HB	1:A:1386:ILE:HD11	1.75	0.68
1:B:1682:THR:OG1	1:B:1727:ARG:NH2	2.27	0.68
1:B:1981:LEU:O	1:B:1984:LEU:HG	1.93	0.68
1:B:2423:VAL:HG23	1:B:2426:HIS:HB3	1.76	0.68
1:B:3687:MSE:C	1:B:3689:ASP:H	1.99	0.68
1:A:3583:LEU:O	1:A:3587:ASP:HB2	1.92	0.68
1:A:3816:LEU:HD11	1:A:3883:LEU:HG	1.74	0.68
1:A:4066:LEU:HD23	1:A:4075:ARG:HG3	1.76	0.68
1:B:669:LEU:HD22	1:B:672:ILE:HG13	1.75	0.68
1:B:926:THR:O	1:B:930:ALA:HB3	1.92	0.68
1:B:1403:MSE:HE1	1:B:1419:LEU:HD21	1.75	0.68
1:B:1643:MSE:HA	1:B:1646:LEU:HG	1.74	0.68
1:B:3084:GLN:OE1	1:B:3084:GLN:N	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3339:ASN:O	1:B:3341:LEU:N	2.26	0.68
1:B:3737:ARG:NH1	1:B:3739:ILE:HD11	2.07	0.68
1:B:3840:LYS:HE2	1:B:4122:GLU:HB3	1.76	0.68
1:A:484:HIS:CD2	1:A:616:LYS:HE3	2.29	0.68
1:A:580:ASP:OD1	1:A:581:LEU:N	2.26	0.68
1:A:2094:MSE:HE1	1:A:2143:ARG:HA	1.75	0.68
1:A:2936:TYR:HB3	1:A:3979:LEU:HD11	1.75	0.68
1:B:2477:LEU:HB3	1:B:2506:LEU:HD21	1.76	0.68
1:B:3031:TRP:CE3	1:B:3034:PRO:HD3	2.29	0.68
1:B:3981:TYR:OH	1:B:4101:GLU:HB3	1.93	0.68
1:A:1437:TYR:CD2	1:A:1444:ASP:OD2	2.47	0.68
1:A:3830:SER:HB2	1:A:3835:PRO:HG3	1.76	0.68
1:B:574:LYS:O	1:B:577:GLU:HG2	1.94	0.68
1:B:744:ASP:C	1:B:746:ARG:H	2.01	0.68
1:B:2260:PHE:CZ	1:B:2303:LEU:HA	2.29	0.68
1:A:265:TYR:O	1:A:268:PRO:HD2	1.94	0.68
1:A:882:SER:HB2	1:A:3892:THR:H	1.59	0.68
1:A:1802:TYR:O	1:A:1805:PHE:N	2.27	0.68
1:A:3008:TRP:CG	1:A:3257:LYS:HZ1	2.10	0.68
1:A:3049:LEU:HD13	1:A:3184:THR:HB	1.76	0.68
1:A:3790:THR:HG22	1:A:3791:TYR:H	1.58	0.68
1:A:3883:LEU:HD13	1:A:3970:LEU:HD13	1.74	0.68
1:B:655:LEU:O	1:B:659:ARG:HG2	1.93	0.68
1:B:2316:TYR:CG	1:B:2317:ALA:N	2.62	0.68
1:A:260:ILE:HG22	1:A:264:ARG:HH12	1.59	0.67
1:A:1080:LEU:HD12	1:A:1081:ALA:N	2.08	0.67
1:B:411:PRO:HA	1:B:414:LEU:HB3	1.75	0.67
1:B:968:VAL:HA	1:B:971:ARG:HG2	1.76	0.67
1:B:2258:GLU:OE2	1:B:2295:GLN:NE2	2.22	0.67
1:B:2542:LEU:HB2	1:B:2546:TYR:CE2	2.29	0.67
1:B:3620:PRO:HA	1:B:3625:LEU:HD12	1.76	0.67
1:A:172:GLU:O	1:A:176:GLU:HG3	1.94	0.67
1:A:990:GLN:HA	1:A:993:HIS:CD2	2.29	0.67
1:A:1403:MSE:HA	1:A:1406:LEU:HB2	1.76	0.67
1:B:899:ARG:NH1	1:B:2570:PRO:HB2	2.00	0.67
1:B:2390:HIS:HD1	1:B:2397:CYS:HG	1.41	0.67
1:B:2440:TYR:HD2	1:B:2476:ILE:HD12	1.58	0.67
1:B:4063:GLU:HA	1:B:4066:LEU:HD22	1.75	0.67
1:A:323:VAL:O	1:A:327:VAL:HB	1.94	0.67
1:B:797:ASP:HA	1:B:800:LEU:HD12	1.77	0.67
1:B:2776:ARG:NH1	1:B:2776:ARG:HA	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:376:ILE:HG13	1:A:381:VAL:CG2	2.24	0.67
1:A:848:LEU:HA	1:A:851:ILE:HD12	1.76	0.67
1:A:909:VAL:HG13	1:A:913:ARG:NH1	2.09	0.67
1:A:1745:LYS:C	1:A:1747:LEU:H	2.02	0.67
1:A:3788:LEU:HG	1:A:3789:ARG:H	1.58	0.67
1:B:429:GLU:OE1	1:B:429:GLU:N	2.27	0.67
1:B:3761:ASP:HB3	1:B:3942:PHE:HB2	1.76	0.67
1:B:3797:THR:HG22	1:B:3800:LEU:HG	1.77	0.67
1:A:411:PRO:HA	1:A:414:LEU:HB3	1.76	0.67
1:A:571:SER:HB2	1:A:606:SER:H	1.59	0.67
1:A:1163:LEU:HD13	1:A:1256:TRP:CD1	2.29	0.67
1:A:2239:LYS:HG3	1:A:2279:ILE:CG2	2.23	0.67
1:A:3174:ASP:OD2	1:A:3782:SER:HB3	1.94	0.67
1:A:3858:MSE:HB3	1:A:4119:ARG:NH2	2.10	0.67
1:A:3964:THR:O	1:A:3967:PHE:HD1	1.78	0.67
1:B:446:PHE:HD1	1:B:446:PHE:H	1.42	0.67
1:B:969:LEU:O	1:B:973:ALA:CB	2.42	0.67
1:A:756:PHE:O	1:A:760:LEU:HG	1.95	0.67
1:A:2538:ARG:HH11	1:A:2565:MSE:HB3	1.59	0.67
1:A:3959:MSE:HE1	1:A:4124:TRP:CD2	2.30	0.67
1:B:550:PHE:HZ	1:B:632:GLU:HG2	1.57	0.67
1:B:1504:ASP:HA	1:B:1507:CYS:HB3	1.76	0.67
1:A:144:MSE:HE2	1:A:184:VAL:HG11	1.76	0.67
1:A:767:GLU:HG2	1:A:846:ILE:O	1.94	0.67
1:A:2477:LEU:HD13	1:A:2505:VAL:HG11	1.76	0.67
1:A:3974:MSE:HA	1:A:3975:LYS:HB3	1.75	0.67
1:B:1643:MSE:O	1:B:1646:LEU:N	2.27	0.67
1:A:1017:ILE:HD12	1:A:1025:LEU:HD22	1.77	0.67
1:A:1744:LYS:HA	1:A:1880:MSE:HE3	1.75	0.67
1:A:2223:VAL:HB	1:A:2238:ILE:HD12	1.76	0.67
1:A:2851:PHE:HA	1:A:2854:PHE:CD2	2.29	0.67
1:A:3344:GLU:O	1:A:3348:LEU:HG	1.94	0.67
1:A:3505:LEU:HD12	1:A:3509:ASP:HB3	1.76	0.67
1:A:3583:LEU:HD11	1:A:3733:ARG:HD3	1.77	0.67
1:A:4066:LEU:HD11	1:A:4078:VAL:HG11	1.77	0.67
1:B:406:ARG:O	1:B:409:GLN:N	2.26	0.67
1:B:463:LYS:O	1:B:466:LEU:HB3	1.94	0.67
1:B:865:GLN:OE1	1:B:865:GLN:N	2.25	0.67
1:B:2140:LEU:HA	1:B:2143:ARG:HD2	1.75	0.67
1:B:2420:PHE:HE1	1:B:2436:LEU:HD22	1.59	0.67
1:B:3812:LEU:HG	1:B:3813:LYS:N	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:173:LYS:O	1:A:177:LEU:HG	1.94	0.67
1:A:709:LYS:NZ	1:A:1328:GLU:OE2	2.24	0.67
1:A:2253:TYR:CZ	1:A:2287:PRO:HB3	2.30	0.67
1:B:327:VAL:HG22	1:B:338:LEU:HD22	1.77	0.67
1:B:985:GLU:HG3	1:B:1031:ARG:NH2	2.03	0.67
1:B:1145:LEU:HB2	1:B:1149:LYS:NZ	2.10	0.67
1:B:1344:PHE:O	1:B:1348:LEU:CB	2.33	0.67
1:B:1483:LEU:HA	1:B:1500:LEU:HD21	1.75	0.67
1:B:1963:GLN:HE21	1:B:1995:GLU:HG2	1.60	0.67
1:B:2001:LYS:HA	1:B:2054:TYR:CE2	2.29	0.67
1:B:2440:TYR:CD2	1:B:2476:ILE:HD12	2.29	0.67
1:B:2854:PHE:CG	1:B:2882:ALA:HB2	2.30	0.67
1:A:2002:LYS:C	1:A:2004:TYR:H	2.03	0.67
1:A:2033:ASP:O	1:A:2037:SER:OG	2.13	0.67
1:A:2224:PHE:CZ	1:A:2276:LEU:HD22	2.30	0.67
1:A:2227:LYS:HZ1	1:A:2232:ARG:HB3	1.60	0.67
1:A:2806:LYS:HA	1:A:2809:PHE:CD2	2.30	0.67
1:A:3879:PRO:HB2	1:A:3966:GLN:OE1	1.94	0.67
1:B:794:PRO:HA	1:B:869:ASN:HB3	1.77	0.67
1:B:1491:ILE:O	1:B:1497:ARG:NH1	2.27	0.67
1:B:1751:GLU:OE2	1:B:1884:LEU:HD13	1.95	0.67
1:B:1894:SER:O	1:B:1897:ASN:N	2.21	0.67
1:B:2507:ILE:HG12	1:B:2548:PRO:HB2	1.77	0.67
1:A:76:ILE:HG13	1:A:77:GLU:H	1.59	0.66
1:A:646:VAL:HG22	1:A:660:LEU:HD23	1.76	0.66
1:A:1292:LYS:NZ	1:A:1361:LYS:NZ	2.44	0.66
1:A:1464:LEU:HB2	1:A:1468:LEU:HD12	1.75	0.66
1:A:1880:MSE:SE	1:A:1881:TYR:CD1	2.98	0.66
1:A:2066:PHE:HB3	1:A:2067:ARG:HG2	1.76	0.66
1:A:2913:LYS:O	1:A:2916:LEU:N	2.22	0.66
1:B:3007:GLU:O	1:B:3010:SER:OG	2.13	0.66
1:A:610:ALA:HA	1:A:613:HIS:CE1	2.29	0.66
1:A:1036:PHE:CD1	1:A:1059:LEU:HD11	2.30	0.66
1:A:1214:GLU:HG2	1:A:1218:SER:HB3	1.77	0.66
1:A:2256:ILE:HD13	1:A:2276:LEU:HD11	1.77	0.66
1:A:3072:GLU:O	1:A:3076:ALA:HB2	1.96	0.66
1:A:3471:ILE:HG23	1:A:3472:ILE:HG13	1.75	0.66
1:B:980:THR:CG2	1:B:984:TYR:HE2	2.09	0.66
1:B:2323:LEU:HG	1:B:2341:LEU:HD21	1.77	0.66
1:B:3414:MSE:HE1	1:B:3450:MSE:HA	1.76	0.66
1:A:287:LEU:C	1:A:291:VAL:HB	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:931:CYS:SG	1:A:932:GLU:N	2.68	0.66
1:A:3019:ILE:HG13	1:A:3020:ASP:H	1.60	0.66
1:A:3467:ARG:HG3	1:A:3471:ILE:HD12	1.77	0.66
1:B:266:ALA:CB	1:B:308:LEU:HG	2.25	0.66
1:B:659:ARG:HH22	1:B:662:LEU:CG	2.05	0.66
1:B:1103:ALA:O	1:B:1106:ILE:HG12	1.95	0.66
1:B:2009:LYS:HG2	1:B:2011:ALA:H	1.58	0.66
1:B:3042:PRO:HA	1:B:3045:ILE:HG12	1.76	0.66
1:A:1548:GLY:O	1:A:1552:HIS:ND1	2.28	0.66
1:A:2121:ASP:HA	1:A:2126:MSE:HB3	1.77	0.66
1:A:3040:TYR:HA	1:A:3043:TYR:CD2	2.31	0.66
1:A:3061:LEU:HD21	1:A:3089:LEU:HD13	1.76	0.66
1:A:3182:ILE:HB	1:A:3186:ARG:HH11	1.58	0.66
1:A:3579:SER:OG	1:A:3580:ASN:N	2.25	0.66
1:A:3725:ARG:HH12	1:A:3737:ARG:HH22	1.43	0.66
1:A:3875:GLU:O	1:A:3879:PRO:HD3	1.95	0.66
1:B:776:TRP:CZ2	1:B:780:ILE:HD12	2.30	0.66
1:B:1113:LEU:HD13	1:B:1162:SER:HB3	1.76	0.66
1:B:1266:CYS:O	1:B:1269:THR:OG1	2.12	0.66
1:B:1364:CYS:HB3	1:B:1367:HIS:ND1	2.10	0.66
1:B:1952:ILE:HG23	1:B:1953:CYS:O	1.96	0.66
1:B:3606:ILE:HD13	1:B:3609:MSE:HE3	1.76	0.66
1:B:3820:MSE:HA	1:B:3882:LEU:HD22	1.77	0.66
1:A:886:TRP:HZ3	1:A:954:GLY:O	1.78	0.66
1:A:1702:LEU:O	1:A:1706:SER:HB3	1.95	0.66
1:A:2891:ARG:HD3	1:A:3972:LEU:HD22	1.77	0.66
1:A:3008:TRP:O	1:A:3011:LEU:N	2.22	0.66
1:A:3582:GLU:HB2	1:A:3674:SER:OG	1.95	0.66
1:B:638:GLN:OE1	1:B:638:GLN:N	2.25	0.66
1:B:3160:LEU:O	1:B:3163:THR:HG22	1.96	0.66
1:A:657:SER:O	1:A:661:PRO:HD3	1.95	0.66
1:B:69:VAL:O	1:B:73:LEU:HG	1.96	0.66
1:B:362:ALA:HB2	1:B:409:GLN:HE21	1.61	0.66
1:B:2137:ILE:O	1:B:2141:ASN:N	2.27	0.66
1:B:2167:PRO:HB2	1:B:2171:LEU:HD22	1.77	0.66
1:B:3721:GLY:O	1:B:3741:ARG:HB2	1.95	0.66
1:B:3842:TRP:CH2	1:B:3846:MSE:HE2	2.30	0.66
1:A:514:VAL:HA	1:A:604:PRO:HG3	1.78	0.66
1:A:1170:LYS:HA	1:A:1173:LEU:HD12	1.77	0.66
1:A:2549:LYS:NZ	1:A:2557:LEU:HD22	2.11	0.66
1:A:2886:GLN:HG3	1:A:2887:PRO:HD3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3493:TRP:CE3	1:A:3496:ILE:HG13	2.30	0.66
1:B:793:LEU:HA	1:B:796:LEU:HG	1.78	0.66
1:B:4002:MSE:SE	1:B:4048:LYS:HE3	2.46	0.66
1:A:175:TYR:HE1	1:A:200:PHE:HB3	1.59	0.66
1:A:260:ILE:HG23	1:A:263:LYS:HD2	1.75	0.66
1:A:612:LEU:O	1:A:615:ALA:HB3	1.96	0.66
1:A:1306:ILE:CG1	1:A:1334:LYS:HB3	2.26	0.66
1:A:1649:LEU:HA	1:A:1652:ILE:HD12	1.76	0.66
1:A:2254:ARG:HG3	1:A:2255:LEU:H	1.61	0.66
1:A:3323:PHE:O	1:A:3326:GLN:HG3	1.96	0.66
1:A:3703:GLY:O	1:A:3706:ASP:HB2	1.95	0.66
1:B:178:LEU:HB3	1:B:197:PHE:CZ	2.30	0.66
1:B:649:PHE:CZ	1:B:657:SER:HB2	2.31	0.66
1:B:2462:VAL:HG21	1:B:2473:MSE:SE	2.46	0.66
1:B:3446:VAL:HA	1:B:3449:LYS:HD2	1.78	0.66
1:B:3486:GLU:HG3	1:B:3487:ILE:N	2.09	0.66
1:B:3725:ARG:HH12	1:B:3737:ARG:HH22	1.31	0.66
1:A:680:ILE:HG12	1:A:701:TYR:CD1	2.30	0.66
1:A:3125:ARG:O	1:A:3128:LYS:N	2.29	0.66
1:A:3414:MSE:HG3	1:A:3456:LEU:HD21	1.76	0.66
1:A:3460:GLU:HA	1:A:3463:LEU:HD12	1.78	0.66
1:A:3619:ASP:HA	1:A:3622:ALA:HB3	1.76	0.66
1:B:186:PRO:HB2	1:B:189:MSE:HB3	1.78	0.66
1:B:294:PHE:HZ	1:B:319:PHE:CD2	2.14	0.66
1:B:617:PRO:O	1:B:620:PHE:N	2.29	0.66
1:B:1993:GLU:O	1:B:1997:PRO:HD2	1.96	0.66
1:B:2155:GLU:O	1:B:2157:PHE:N	2.29	0.66
1:B:2190:VAL:HG21	1:B:2241:LEU:HD13	1.76	0.66
1:B:2408:MSE:HE2	1:B:2408:MSE:HA	1.78	0.66
1:B:3887:PHE:HE2	1:B:3904:PHE:HD2	1.43	0.66
1:B:3944:HIS:CE1	1:B:4020:MSE:HE2	2.30	0.66
1:A:971:ARG:HB3	1:A:1027:ASP:OD2	1.96	0.65
1:A:2382:VAL:HG21	1:A:2404:ARG:HG3	1.79	0.65
1:B:1081:ALA:O	1:B:1085:ILE:HG12	1.95	0.65
1:B:2943:PHE:C	1:B:2945:SER:H	2.04	0.65
1:B:3262:LEU:HD21	1:B:3274:VAL:HG12	1.78	0.65
1:A:446:PHE:CD1	1:A:447:PRO:HD3	2.30	0.65
1:A:2011:ALA:O	1:A:2013:GLU:N	2.28	0.65
1:A:2023:SER:HA	1:A:2070:GLU:OE2	1.96	0.65
1:A:2183:HIS:O	1:A:2187:VAL:CB	2.30	0.65
1:A:2962:ARG:HE	1:A:3254:LEU:HA	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3042:PRO:HA	1:A:3045:ILE:HG12	1.77	0.65
1:A:3287:ARG:HH11	1:A:3331:GLY:HA3	1.61	0.65
1:B:717:LYS:NZ	1:B:1121:LEU:HD11	2.10	0.65
1:B:1681:ASP:OD1	1:B:1682:THR:N	2.29	0.65
1:B:2478:MSE:O	1:B:2482:ASP:CB	2.44	0.65
1:B:3589:SER:O	1:B:3593:ARG:CB	2.44	0.65
1:A:135:LEU:HD13	1:A:173:LYS:HB3	1.78	0.65
1:A:1802:TYR:HA	1:A:1805:PHE:HD2	1.61	0.65
1:A:2794:LEU:HA	1:A:2797:VAL:HG22	1.78	0.65
1:A:3847:SER:HA	1:A:3857:LEU:HD13	1.77	0.65
1:B:253:LEU:HD11	1:B:297:LEU:HB3	1.78	0.65
1:B:367:GLY:C	1:B:369:PHE:H	2.03	0.65
1:B:393:LYS:HA	1:B:396:PHE:CD1	2.31	0.65
1:B:649:PHE:O	1:B:652:GLU:N	2.15	0.65
1:B:2224:PHE:CZ	1:B:2276:LEU:HD22	2.32	0.65
1:B:2571:ASP:O	1:B:2789:SER:OG	2.14	0.65
1:B:2935:GLU:HG3	1:B:2936:TYR:H	1.62	0.65
1:B:3630:ARG:HG2	1:B:3686:TRP:NE1	2.11	0.65
1:A:939:MSE:HE2	1:A:942:LEU:HD13	1.79	0.65
1:A:1101:PHE:O	1:A:1104:LEU:HB2	1.97	0.65
1:A:1934:LEU:CD1	1:A:1937:ARG:H	2.09	0.65
1:A:3429:GLU:OE1	1:A:4046:TYR:OH	2.13	0.65
1:A:3946:PHE:CE2	1:A:4048:LYS:HD2	2.31	0.65
1:B:1349:LEU:HD23	1:B:1353:PRO:HG2	1.78	0.65
1:B:1816:ARG:HB3	1:B:1819:PHE:HE1	1.60	0.65
1:A:801:LYS:NZ	1:A:877:ASP:OD2	2.29	0.65
1:A:1121:LEU:HG	1:A:1122:GLY:N	2.11	0.65
1:A:1292:LYS:NZ	1:A:1361:LYS:HZ1	1.95	0.65
1:A:1423:ILE:HG13	1:A:1424:THR:H	1.60	0.65
1:A:1718:ILE:HG23	1:A:1750:LEU:HD21	1.78	0.65
1:A:2034:SER:O	1:A:2036:LEU:N	2.29	0.65
1:A:2182:ILE:O	1:A:2186:VAL:HG12	1.97	0.65
1:A:2253:TYR:HD1	1:A:2256:ILE:HD12	1.59	0.65
1:A:3480:LEU:O	1:A:3484:THR:OG1	2.14	0.65
1:B:385:TYR:O	1:B:389:ILE:HB	1.95	0.65
1:B:753:GLN:O	1:B:757:LYS:CB	2.43	0.65
1:B:1101:PHE:CG	1:B:1138:ILE:HG12	2.32	0.65
1:A:2049:VAL:O	1:A:2052:TYR:N	2.28	0.65
1:A:2507:ILE:HA	1:A:2510:LEU:HD12	1.78	0.65
1:A:2886:GLN:OE1	1:A:2921:LEU:HB2	1.97	0.65
1:B:173:LYS:O	1:B:177:LEU:HG	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:471:LYS:HA	1:B:1553:PHE:CE2	2.31	0.65
1:B:736:LEU:O	1:B:740:ILE:HG13	1.97	0.65
1:B:938:VAL:HG21	1:B:962:TYR:CZ	2.32	0.65
1:B:3677:PRO:O	1:B:3679:ASN:N	2.28	0.65
1:A:393:LYS:HA	1:A:396:PHE:CD1	2.32	0.65
1:A:759:GLY:HA2	1:A:763:THR:OG1	1.95	0.65
1:A:895:ALA:HB3	1:A:904:VAL:HG21	1.78	0.65
1:A:1346:THR:HG21	1:A:1401:ASN:HB3	1.79	0.65
1:A:2049:VAL:HA	1:A:2052:TYR:CD2	2.30	0.65
1:A:2058:ASP:HB3	1:A:2059:PRO:HD3	1.78	0.65
1:A:2240:THR:HG21	2:K:113:UNK:N	2.12	0.65
1:A:2274:ILE:HA	1:A:2277:LEU:HG	1.76	0.65
1:A:2304:VAL:HG13	1:A:2348:GLN:NE2	2.10	0.65
1:A:3630:ARG:HA	1:A:3686:TRP:CD1	2.32	0.65
1:A:4004:VAL:O	1:A:4008:GLU:HB2	1.97	0.65
1:B:1651:LYS:O	1:B:1654:GLN:HB2	1.97	0.65
1:B:2062:ALA:HB1	1:B:2066:PHE:CE2	2.30	0.65
1:B:2937:ASP:OD1	1:B:3979:LEU:HD12	1.96	0.65
1:A:403:GLY:C	1:A:405:ASP:H	2.04	0.65
1:A:660:LEU:O	1:A:663:ILE:HG13	1.96	0.65
1:A:757:LYS:HA	1:A:760:LEU:HD12	1.78	0.65
1:A:1039:TRP:HZ2	1:A:1049:GLN:HA	1.62	0.65
1:A:1107:TYR:O	1:A:1111:LEU:N	2.29	0.65
1:A:1138:ILE:HG21	1:A:1150:LYS:HE2	1.78	0.65
1:A:1373:VAL:HB	1:A:1418:HIS:CE1	2.31	0.65
1:A:1437:TYR:CE2	1:A:1444:ASP:OD2	2.48	0.65
1:A:2854:PHE:CG	1:A:2882:ALA:HB2	2.32	0.65
1:B:220:LEU:O	1:B:224:LEU:HG	1.97	0.65
1:B:1249:SER:O	1:B:1253:THR:CB	2.44	0.65
1:B:3141:PHE:HE1	1:B:3193:ILE:HG13	1.62	0.65
1:B:3705:TYR:HE2	1:B:3708:ARG:NH1	1.95	0.65
1:B:4099:SER:O	1:B:4103:GLN:NE2	2.27	0.65
1:A:909:VAL:HG13	1:A:913:ARG:HH11	1.62	0.65
1:A:940:PHE:HE2	1:A:2576:MSE:SE	2.29	0.65
1:A:1949:ILE:HD12	1:A:1952:ILE:HG21	1.79	0.65
1:A:2375:ALA:O	1:A:2379:MSE:HB2	1.96	0.65
1:A:3416:LEU:HD13	1:A:3446:VAL:HG12	1.78	0.65
1:B:2070:GLU:HB2	1:B:2072:ARG:N	2.12	0.65
1:B:2270:ASN:O	1:B:2274:ILE:HG23	1.95	0.65
1:B:2412:TYR:CD2	1:B:2416:LYS:HE3	2.31	0.65
1:B:3152:SER:HB2	1:B:3155:VAL:HB	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3257:LYS:HA	1:B:3260:LYS:HD2	1.77	0.65
1:B:3704:GLN:HE21	1:B:3796:MSE:SE	2.30	0.65
1:B:3722:PHE:CD1	1:B:3740:ILE:HA	2.32	0.65
1:A:3176:MSE:HE1	1:A:3179:TRP:CE3	2.31	0.65
1:A:3843:LEU:HD22	1:A:3858:MSE:HE1	1.79	0.65
1:B:416:SER:O	1:B:420:VAL:HB	1.97	0.65
1:B:2196:TRP:CG	1:B:2199:LEU:HD11	2.31	0.65
1:B:2413:PHE:CD2	1:B:2445:LYS:HG3	2.32	0.65
1:B:2883:SER:HA	1:B:2886:GLN:HE21	1.62	0.65
1:B:2936:TYR:CE1	1:B:2949:THR:HG21	2.32	0.65
1:B:2975:ALA:C	1:B:2977:ASN:H	2.05	0.65
1:B:3499:ILE:HG13	1:B:3531:TYR:CZ	2.32	0.65
1:B:3594:ALA:HB1	1:B:4028:ILE:HG21	1.79	0.65
1:B:4062:ASP:O	1:B:4066:LEU:HD13	1.97	0.65
1:A:757:LYS:HA	1:A:760:LEU:CD1	2.27	0.64
1:A:3141:PHE:HE1	1:A:3193:ILE:HG13	1.62	0.64
1:B:217:LEU:HD22	1:B:264:ARG:HG3	1.79	0.64
1:B:446:PHE:CZ	1:B:530:LEU:HB3	2.32	0.64
1:B:1094:SER:N	1:B:1097:GLU:OE2	2.28	0.64
1:B:1163:LEU:HD22	1:B:1260:LEU:HD11	1.79	0.64
1:B:3998:LEU:O	1:B:4001:THR:OG1	2.13	0.64
1:A:404:ASP:O	1:A:406:ARG:N	2.29	0.64
1:A:1145:LEU:HD13	1:A:1149:LYS:HD3	1.80	0.64
1:A:1915:LEU:HD12	1:A:1916:ILE:HG13	1.78	0.64
1:A:3011:LEU:HD12	1:A:3047:SER:HB3	1.79	0.64
1:A:3421:ASP:OD2	1:A:3467:ARG:HD3	1.97	0.64
1:B:172:GLU:O	1:B:176:GLU:HG3	1.97	0.64
1:B:1655:ILE:HG13	1:B:1677:SER:HA	1.79	0.64
1:B:2538:ARG:NH1	1:B:2562:LEU:O	2.30	0.64
1:B:2539:LEU:HA	1:B:2542:LEU:HD23	1.79	0.64
1:B:3015:SER:O	1:B:3019:ILE:N	2.28	0.64
1:B:3931:ALA:O	1:B:3935:GLY:CA	2.43	0.64
1:A:1889:VAL:HG22	1:A:1900:PHE:CD2	2.33	0.64
1:A:2412:TYR:CE1	1:A:2415:LEU:HD23	2.32	0.64
1:B:171:LEU:HD13	1:B:219:VAL:HG13	1.80	0.64
1:B:385:TYR:CE1	1:B:421:LEU:HD23	2.31	0.64
1:B:913:ARG:HA	1:B:916:GLU:CD	2.23	0.64
1:B:1909:ASN:O	1:B:1912:THR:HG23	1.98	0.64
1:A:183:GLU:HA	1:A:233:ASN:HD21	1.62	0.64
1:A:866:ILE:HB	1:A:3129:LEU:HD13	1.78	0.64
1:A:2094:MSE:HE2	1:A:2142:ILE:HG22	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2452:ARG:HG2	1:A:2498:ILE:HD11	1.79	0.64
1:A:3048:LYS:HZ2	1:A:3089:LEU:HB3	1.63	0.64
1:A:3503:VAL:HG21	1:A:3535:ILE:O	1.97	0.64
1:B:710:PHE:O	1:B:714:VAL:HG23	1.96	0.64
1:B:1649:LEU:HA	1:B:1652:ILE:HD12	1.78	0.64
1:B:2999:LEU:HD12	1:B:3002:TYR:HE2	1.63	0.64
1:B:3496:ILE:O	1:B:3498:TRP:N	2.31	0.64
1:B:4020:MSE:HE3	1:B:4027:TRP:NE1	2.13	0.64
1:A:1107:TYR:CE1	1:A:1111:LEU:HD13	2.33	0.64
1:A:1349:LEU:HD21	1:A:1359:LEU:HD13	1.78	0.64
1:A:2782:ASP:HA	1:A:2786:LYS:HB2	1.80	0.64
1:A:3721:GLY:O	1:A:3741:ARG:HB2	1.97	0.64
1:B:111:CYS:HA	1:B:134:LEU:HD22	1.80	0.64
1:B:1279:LEU:HG	1:B:1292:LYS:NZ	2.13	0.64
1:B:3864:ARG:NH1	1:B:4115:ASN:OD1	2.30	0.64
1:A:512:GLY:HA3	1:A:726:LEU:HD22	1.79	0.64
1:A:743:LEU:HG	1:A:783:HIS:HE1	1.62	0.64
1:A:854:ARG:O	1:A:858:MSE:HB2	1.98	0.64
1:A:1142:HIS:C	1:A:1144:SER:H	2.05	0.64
1:A:1269:THR:HG22	1:A:1275:THR:HG21	1.78	0.64
1:A:1649:LEU:HD12	1:A:1652:ILE:HD12	1.78	0.64
1:A:3998:LEU:O	1:A:4002:MSE:HG3	1.97	0.64
1:B:85:ILE:O	1:B:89:LEU:HG	1.97	0.64
1:B:177:LEU:HA	1:B:180:LEU:HB2	1.79	0.64
1:B:1039:TRP:CZ2	1:B:1049:GLN:HA	2.32	0.64
1:B:2467:THR:HB	1:B:2518:GLN:HE22	1.62	0.64
1:B:2850:PHE:HB2	1:B:2853:PRO:HG2	1.80	0.64
1:B:2870:SER:O	1:B:2872:ASP:N	2.30	0.64
1:B:2886:GLN:CD	1:B:2887:PRO:HD3	2.23	0.64
1:B:3459:ASN:ND2	1:B:3710:LYS:HZ3	1.93	0.64
1:B:3974:MSE:SE	1:B:3976:GLU:HB3	2.47	0.64
1:A:1165:LEU:HB3	1:A:1169:VAL:HG23	1.79	0.64
1:A:1345:THR:HG21	1:A:1368:LEU:HD13	1.78	0.64
1:A:1609:ALA:HB3	1:A:1806:ARG:HH22	1.61	0.64
1:A:1890:HIS:CE1	1:A:1941:HIS:HA	2.33	0.64
1:A:2307:MSE:HG2	1:A:2348:GLN:NE2	2.12	0.64
1:A:3425:ARG:NH2	1:A:4000:ASN:OD1	2.31	0.64
1:A:3589:SER:O	1:A:3593:ARG:CB	2.45	0.64
1:A:3676:PRO:O	1:A:3679:ASN:ND2	2.30	0.64
1:B:2276:LEU:HA	1:B:2279:ILE:HG12	1.80	0.64
1:B:2939:LEU:HD21	1:B:2994:TRP:CD2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:720:GLN:HB3	1:A:1123:THR:HG21	1.78	0.64
1:A:1084:ASN:HD21	1:A:1131:ILE:HG22	1.63	0.64
1:A:2413:PHE:CE1	1:A:2442:MSE:HG2	2.33	0.64
1:A:2555:LEU:HD11	1:A:2803:ILE:HD11	1.79	0.64
1:A:3498:TRP:NE1	1:A:3502:MSE:SE	2.81	0.64
1:B:66:LEU:HD21	1:B:89:LEU:HD11	1.78	0.64
1:B:272:LEU:HB3	1:B:319:PHE:HZ	1.63	0.64
1:B:393:LYS:HA	1:B:396:PHE:HD1	1.62	0.64
1:B:1142:HIS:C	1:B:1144:SER:H	2.05	0.64
1:B:1973:LYS:O	1:B:1974:ASN:HB2	1.98	0.64
1:B:2423:VAL:HG13	1:B:2424:MSE:H	1.63	0.64
1:B:2433:LYS:NZ	1:B:2461:PHE:CZ	2.65	0.64
1:B:2555:LEU:HD12	1:B:2556:SER:H	1.62	0.64
1:B:3705:TYR:CE2	1:B:3708:ARG:NH1	2.66	0.64
1:A:884:VAL:HB	1:A:3892:THR:OG1	1.98	0.64
1:A:995:PHE:CD1	1:A:1003:SER:HA	2.33	0.64
1:A:1700:THR:O	1:A:1702:LEU:N	2.30	0.64
1:B:101:ALA:HB3	1:B:102:PRO:HD3	1.80	0.64
1:B:345:PHE:CD2	1:B:367:GLY:HA3	2.32	0.64
1:B:411:PRO:HG2	1:B:457:CYS:SG	2.37	0.64
1:B:1069:HIS:HB3	1:B:3741:ARG:CZ	2.28	0.64
1:B:1696:LEU:HA	1:B:1700:THR:HG21	1.79	0.64
1:B:2136:PRO:C	1:B:2139:PRO:HD2	2.22	0.64
1:B:3282:ARG:NH1	1:B:3282:ARG:HB2	2.13	0.64
1:B:3816:LEU:O	1:B:3820:MSE:HB3	1.97	0.64
1:A:14:ARG:HB3	1:A:2359:LYS:HE2	1.79	0.64
1:A:771:ASN:O	1:A:773:LEU:N	2.30	0.64
1:A:2253:TYR:HA	1:A:2256:ILE:HB	1.80	0.64
1:A:2960:GLU:CD	1:A:3289:ARG:HH12	2.05	0.64
1:A:3855:TYR:HB3	1:A:4074:PHE:CZ	2.32	0.64
1:B:207:GLN:O	1:B:212:VAL:HG12	1.98	0.64
1:B:909:VAL:O	1:B:913:ARG:HG2	1.98	0.64
1:B:1471:GLN:O	1:B:1475:LEU:HB3	1.98	0.64
1:B:2379:MSE:HE1	1:B:2404:ARG:HH11	1.60	0.64
1:A:66:LEU:HD21	1:A:89:LEU:HD11	1.80	0.63
1:A:1039:TRP:CZ2	1:A:1049:GLN:HA	2.33	0.63
1:A:1939:LEU:HD13	1:A:1986:ARG:HH21	1.62	0.63
1:A:2194:LEU:HD13	1:A:2244:CYS:HB3	1.79	0.63
1:A:2929:LEU:HG	1:A:3784:ARG:HG2	1.79	0.63
1:A:3110:PHE:O	1:A:3114:TYR:HD1	1.81	0.63
1:A:3788:LEU:HG	1:A:3789:ARG:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2912:GLY:HA2	1:B:2915:ARG:HH21	1.64	0.63
1:B:3725:ARG:NH1	1:B:3737:ARG:NH2	2.38	0.63
1:A:493:LYS:HB3	1:A:494:PRO:HD2	1.80	0.63
1:A:1640:GLU:O	1:A:1644:ALA:CB	2.46	0.63
1:A:2866:ALA:O	1:A:2869:LEU:N	2.31	0.63
1:A:3781:CYS:HA	1:A:3786:LEU:HD12	1.78	0.63
1:A:3985:VAL:HG11	1:A:4101:GLU:HG2	1.79	0.63
1:B:139:ARG:HA	1:B:173:LYS:HD3	1.80	0.63
1:B:1084:ASN:CG	1:B:1134:LEU:HD11	2.22	0.63
1:B:1970:LYS:HE2	1:B:2017:GLY:HA3	1.80	0.63
1:B:4038:TRP:CH2	1:B:4040:PRO:HB3	2.32	0.63
1:A:1259:LEU:HD11	1:A:1337:VAL:HA	1.79	0.63
1:A:2352:HIS:HB3	1:A:2360:PHE:HB3	1.78	0.63
1:B:617:PRO:HB3	1:B:659:ARG:HG3	1.80	0.63
1:B:2171:LEU:HG	1:B:2177:ASN:HD21	1.63	0.63
1:A:132:ILE:HA	1:A:135:LEU:HD12	1.80	0.63
1:A:1981:LEU:HD21	1:A:2031:LEU:O	1.98	0.63
1:A:1982:ILE:HA	1:A:1985:LYS:HE2	1.80	0.63
1:A:2281:MSE:SE	1:A:2286:PRO:HB3	2.48	0.63
1:A:2404:ARG:NH1	1:A:2412:TYR:CZ	2.67	0.63
1:A:3192:LYS:HD2	1:A:3192:LYS:N	2.13	0.63
1:B:984:TYR:O	1:B:988:VAL:HG13	1.99	0.63
1:B:995:PHE:CD1	1:B:1003:SER:HA	2.33	0.63
1:B:1296:PHE:O	1:B:1299:GLU:N	2.28	0.63
1:B:1737:ASN:C	1:B:1739:TYR:H	2.06	0.63
1:B:2145:PHE:HD1	1:B:2188:GLU:HG2	1.62	0.63
1:B:2433:LYS:HG3	1:B:2436:LEU:HD12	1.79	0.63
1:B:2933:ILE:HG23	1:B:3979:LEU:HB2	1.80	0.63
1:B:3974:MSE:HA	1:B:3975:LYS:HB3	1.80	0.63
1:A:278:HIS:O	1:A:281:GLN:HB3	1.98	0.63
1:A:720:GLN:HG3	1:A:1121:LEU:HD22	1.81	0.63
1:A:904:VAL:O	1:A:906:PHE:N	2.32	0.63
1:A:1093:GLU:N	1:A:1097:GLU:OE2	2.22	0.63
1:A:1424:THR:O	1:A:1427:SER:N	2.28	0.63
1:A:1685:ASP:CB	1:A:1727:ARG:HH22	2.06	0.63
1:A:2936:TYR:CD1	1:A:2949:THR:HG21	2.33	0.63
1:B:473:PRO:HA	1:B:476:ARG:NH2	2.11	0.63
1:B:726:LEU:HD23	1:B:729:CYS:SG	2.38	0.63
1:B:1006:THR:HG22	1:B:1010:LEU:HG	1.81	0.63
1:B:2022:PRO:HB2	1:B:2072:ARG:HH21	1.62	0.63
1:B:2144:LEU:HB3	1:B:2148:LYS:HE3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2449:VAL:HA	1:B:2452:ARG:HD2	1.80	0.63
1:B:3155:VAL:HG23	1:B:3158:LYS:HD2	1.80	0.63
1:B:3630:ARG:HG2	1:B:3686:TRP:HE1	1.63	0.63
1:A:345:PHE:HD2	1:A:367:GLY:HA3	1.64	0.63
1:A:1070:PRO:HB2	1:A:1073:PHE:CE1	2.34	0.63
1:A:1729:PHE:CE2	1:A:1870:LYS:HG3	2.33	0.63
1:B:766:ALA:O	1:B:768:VAL:N	2.28	0.63
1:B:1251:GLN:O	1:B:1255:CYS:HB2	1.98	0.63
1:B:2788:SER:O	1:B:2791:ILE:HB	1.98	0.63
1:B:3763:ARG:NH2	1:B:4009:PRO:HG3	2.13	0.63
1:B:3834:ALA:HB1	1:B:3838:GLU:OE1	1.98	0.63
1:A:256:ILE:HG22	1:A:257:ARG:HG3	1.80	0.63
1:A:414:LEU:HD23	1:A:460:ALA:HB1	1.80	0.63
1:A:988:VAL:O	1:A:992:ILE:HG23	1.99	0.63
1:A:3684:SER:OG	1:A:3685:PRO:HD3	1.98	0.63
1:B:942:LEU:HD11	1:B:991:LEU:HD11	1.80	0.63
1:B:1583:MSE:HE1	1:B:1640:GLU:OE2	1.98	0.63
1:B:1711:ARG:HG3	1:B:1712:ARG:N	2.13	0.63
1:B:1977:ILE:C	1:B:1979:GLU:H	2.02	0.63
1:B:3919:GLY:H	1:B:3946:PHE:H	1.47	0.63
1:A:886:TRP:CD1	1:A:889:GLU:H	2.17	0.63
1:A:1419:LEU:O	1:A:1421:GLU:N	2.31	0.63
1:A:1575:LEU:HD13	1:A:1604:SER:HB3	1.80	0.63
1:A:1952:ILE:HG12	1:A:1953:CYS:H	1.63	0.63
1:A:3816:LEU:HD13	1:A:3966:GLN:NE2	2.12	0.63
1:A:4050:LYS:HB3	1:A:4055:ASN:HD21	1.63	0.63
1:B:988:VAL:O	1:B:992:ILE:HG23	1.99	0.63
1:B:1100:VAL:O	1:B:1104:LEU:N	2.29	0.63
1:B:1279:LEU:HG	1:B:1292:LYS:HZ1	1.62	0.63
1:B:1306:ILE:HG12	1:B:1334:LYS:HB3	1.81	0.63
1:B:3167:ARG:HG2	1:B:3186:ARG:NE	2.14	0.63
1:B:3982:SER:O	1:B:3986:HIS:ND1	2.32	0.63
1:B:4088:ASN:OD1	1:B:4091:ALA:HB3	1.99	0.63
1:A:1887:ASP:OD1	1:A:1937:ARG:NH2	2.31	0.63
1:A:2256:ILE:HG21	1:A:2280:VAL:HG21	1.81	0.63
1:A:2327:LEU:O	1:A:2331:MSE:HG2	1.99	0.63
1:B:114:VAL:CG1	1:B:130:LEU:HD11	2.29	0.63
1:B:559:SER:O	1:B:563:LEU:HG	1.98	0.63
1:B:2226:PRO:O	1:B:2230:VAL:N	2.27	0.63
1:B:2799:GLN:HG3	1:B:2808:LEU:HD11	1.81	0.63
1:B:2936:TYR:HE1	1:B:2949:THR:HG21	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3045:ILE:O	1:B:3048:LYS:HB2	1.99	0.63
1:B:4035:GLU:HG2	1:B:4038:TRP:CE3	2.34	0.63
1:A:31:GLY:O	1:A:34:LEU:HB3	1.98	0.62
1:A:649:PHE:O	1:A:651:TYR:N	2.32	0.62
1:A:802:THR:O	1:A:806:SER:OG	2.15	0.62
1:A:935:HIS:O	1:A:938:VAL:HB	1.99	0.62
1:A:999:LYS:HD3	1:A:1000:LYS:H	1.64	0.62
1:A:1029:CYS:HB3	1:A:1085:ILE:HG13	1.81	0.62
1:A:2379:MSE:SE	1:A:2408:MSE:SE	3.17	0.62
1:A:4048:LYS:O	1:A:4051:LEU:HB3	1.99	0.62
1:B:3250:ASN:OD1	1:B:3285:HIS:HB3	1.98	0.62
1:A:1292:LYS:HZ2	1:A:1361:LYS:NZ	1.96	0.62
1:A:4056:PRO:HG2	1:A:4094:PRO:HB3	1.81	0.62
1:B:452:LYS:O	1:B:455:LEU:HG	1.99	0.62
1:B:585:ILE:HG22	1:B:586:GLN:H	1.64	0.62
1:B:1459:HIS:CE1	1:B:1510:LEU:HG	2.35	0.62
1:B:1604:SER:HB2	1:B:1632:TRP:HB3	1.80	0.62
1:B:2146:LEU:HA	1:B:2149:LEU:HG	1.80	0.62
1:B:3107:ILE:HA	1:B:3110:PHE:CE2	2.34	0.62
1:B:3778:ASP:OD2	1:B:3781:CYS:N	2.32	0.62
1:A:101:ALA:HB3	1:A:102:PRO:HD3	1.81	0.62
1:A:956:PRO:HB2	1:A:957:PRO:HD3	1.79	0.62
1:A:2147:ALA:HB1	1:A:2151:ILE:HD12	1.82	0.62
1:A:2378:PHE:CE1	1:A:2408:MSE:HE1	2.29	0.62
1:B:3592:VAL:HG13	1:B:3609:MSE:SE	2.50	0.62
1:B:4046:TYR:CZ	1:B:4049:ARG:NH2	2.68	0.62
1:A:252:VAL:HG11	1:A:265:TYR:HB2	1.81	0.62
1:A:2074:PRO:O	1:A:2077:HIS:N	2.32	0.62
1:A:2900:LEU:HD12	1:A:2905:LEU:HD21	1.80	0.62
1:A:3176:MSE:HE2	1:A:3251:ASN:HD22	1.64	0.62
1:A:3256:MSE:HE2	1:A:3282:ARG:HH12	1.62	0.62
1:A:3762:GLN:NE2	1:A:3763:ARG:NH1	2.46	0.62
1:A:3812:LEU:O	1:A:3816:LEU:CB	2.38	0.62
1:B:154:SER:OG	1:B:189:MSE:HG2	1.99	0.62
1:B:200:PHE:O	1:B:204:LEU:HG	1.98	0.62
1:B:508:HIS:HD2	1:B:725:LEU:HD13	1.65	0.62
1:B:891:ARG:CD	1:B:905:ILE:HG12	2.30	0.62
1:B:1637:SER:O	1:B:1640:GLU:N	2.32	0.62
1:B:2936:TYR:CD2	1:B:3979:LEU:HD21	2.33	0.62
1:B:2943:PHE:CD2	1:B:2944:THR:HG23	2.34	0.62
1:A:870:LEU:HD11	1:A:3125:ARG:HG3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2239:LYS:HD3	2:K:110:UNK:CB	2.30	0.62
1:A:2260:PHE:CD1	1:A:2274:ILE:HG22	2.35	0.62
1:A:2900:LEU:HB3	1:A:2905:LEU:HD11	1.80	0.62
1:A:3486:GLU:HG3	1:A:3487:ILE:H	1.65	0.62
1:B:1080:LEU:HD12	1:B:1081:ALA:N	2.14	0.62
1:B:1708:GLU:HB2	1:B:1709:GLU:OE2	2.00	0.62
1:B:2386:LEU:O	1:B:2390:HIS:HB2	2.00	0.62
1:B:2870:SER:C	1:B:2872:ASP:H	2.04	0.62
1:B:3824:GLU:HB3	1:B:3829:LEU:HD11	1.81	0.62
1:A:245:SER:HA	1:A:248:ILE:HD12	1.80	0.62
1:A:971:ARG:HD2	1:A:1024:THR:HG23	1.80	0.62
1:A:1033:ILE:HB	1:A:1085:ILE:HG22	1.81	0.62
1:A:2239:LYS:HD2	1:A:2279:ILE:HD12	1.81	0.62
1:A:2555:LEU:O	1:A:2558:ALA:HB3	1.99	0.62
1:A:2809:PHE:HB3	1:A:2859:GLN:CD	2.24	0.62
1:A:2837:LEU:HA	1:A:2840:PHE:CD2	2.30	0.62
1:A:2869:LEU:HG	1:A:2893:LEU:HD12	1.80	0.62
1:B:414:LEU:HA	1:B:417:VAL:HB	1.80	0.62
1:B:508:HIS:CD2	1:B:725:LEU:HD13	2.35	0.62
1:B:1265:GLU:O	1:B:1269:THR:HG23	2.00	0.62
1:B:1293:ALA:HA	1:B:1296:PHE:HD2	1.65	0.62
1:B:3174:ASP:OD2	1:B:3779:SER:HA	2.00	0.62
1:B:3582:GLU:O	1:B:3586:LYS:HB3	2.00	0.62
1:B:3630:ARG:HG2	1:B:3686:TRP:CD1	2.35	0.62
1:B:3812:LEU:HA	1:B:3815:LEU:HD12	1.81	0.62
1:A:345:PHE:CD2	1:A:367:GLY:HA3	2.34	0.62
1:A:509:ARG:HB3	1:A:729:CYS:SG	2.40	0.62
1:A:2847:THR:HB	1:A:2850:PHE:HD2	1.65	0.62
1:A:3810:VAL:CG2	1:A:3815:LEU:HD11	2.29	0.62
1:A:3931:ALA:O	1:A:3935:GLY:HA2	2.00	0.62
1:B:796:LEU:HA	1:B:799:TYR:CE2	2.34	0.62
1:B:870:LEU:HA	1:B:873:VAL:HB	1.81	0.62
1:B:1574:ASN:HB3	1:B:1582:LEU:HD21	1.82	0.62
1:B:2925:GLU:HA	1:B:3121:LEU:HD11	1.80	0.62
1:B:3393:GLU:OE1	1:B:3416:LEU:HD13	1.99	0.62
1:B:3872:ARG:HH11	1:B:3965:ARG:NH1	1.97	0.62
1:A:398:THR:O	1:A:401:ASP:N	2.33	0.62
1:A:794:PRO:HA	1:A:869:ASN:HB3	1.81	0.62
1:A:1119:LYS:HZ1	1:A:1256:TRP:HZ2	1.47	0.62
1:A:1216:GLY:HA3	1:A:1271:ILE:HG22	1.80	0.62
1:A:1220:LEU:HD13	1:A:1274:ARG:HG3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1342:MSE:SE	1:A:1372:LEU:HB2	2.50	0.62
1:A:1429:GLU:O	1:A:1433:ALA:CB	2.46	0.62
1:A:1880:MSE:HE2	1:A:1884:LEU:HD11	1.81	0.62
1:A:2227:LYS:HA	1:A:2234:ASN:HD22	1.64	0.62
1:A:2416:LYS:HB3	1:A:2442:MSE:SE	2.49	0.62
1:A:3930:VAL:HG12	1:A:3937:VAL:HG22	1.81	0.62
1:B:446:PHE:HA	1:B:449:TYR:HE2	1.62	0.62
1:B:1090:ARG:HA	1:B:1090:ARG:HE	1.64	0.62
1:B:1090:ARG:HH22	1:B:1096:VAL:C	2.07	0.62
1:B:1221:ILE:HG13	1:B:1274:ARG:NH1	2.14	0.62
1:B:2157:PHE:HE2	1:B:2199:LEU:CD1	2.12	0.62
1:B:2310:VAL:HG23	1:B:2315:VAL:HG21	1.81	0.62
1:B:2416:LYS:O	1:B:2420:PHE:CB	2.47	0.62
1:B:2776:ARG:HA	1:B:2776:ARG:HH11	1.64	0.62
1:B:3019:ILE:HG13	1:B:3020:ASP:H	1.65	0.62
1:A:572:VAL:HG13	1:A:573:LEU:H	1.64	0.62
1:A:1449:ALA:HA	1:A:1452:VAL:HB	1.80	0.62
1:A:2283:ASN:O	1:A:2287:PRO:HD3	2.00	0.62
1:A:3465:PHE:HA	1:A:3468:LEU:HD12	1.81	0.62
1:B:18:THR:O	1:B:22:ALA:HB3	1.99	0.62
1:B:232:CYS:SG	1:B:274:LEU:HD13	2.40	0.62
1:B:634:LEU:HB3	1:B:638:GLN:HE22	1.65	0.62
1:B:1269:THR:HG22	1:B:1275:THR:HG21	1.82	0.62
1:B:3228:SER:HA	1:B:3231:ILE:HD12	1.80	0.62
1:B:3513:ALA:O	1:B:3516:HIS:N	2.33	0.62
1:A:538:ASP:O	1:A:545:LEU:HD13	1.99	0.62
1:A:789:TYR:HA	1:A:793:LEU:HD12	1.82	0.62
1:A:2874:ALA:HB1	1:A:2878:ALA:HB3	1.81	0.62
1:A:2913:LYS:O	1:A:2915:ARG:N	2.32	0.62
1:B:358:GLU:HG3	1:B:359:LEU:H	1.64	0.62
1:B:3243:ILE:HD13	1:B:3262:LEU:HD22	1.82	0.62
1:A:242:PRO:O	1:A:246:ARG:HB3	2.00	0.61
1:A:753:GLN:O	1:A:757:LYS:CB	2.48	0.61
1:A:935:HIS:HB2	1:A:984:TYR:HE2	1.65	0.61
1:A:1928:ALA:HB2	1:A:1941:HIS:CE1	2.35	0.61
1:A:3687:MSE:C	1:A:3689:ASP:H	2.06	0.61
1:B:732:PHE:HB2	1:B:733:LEU:HD23	1.82	0.61
1:B:1073:PHE:CZ	1:B:3745:GLU:HA	2.35	0.61
1:B:1280:GLN:HA	1:B:1361:LYS:NZ	2.15	0.61
1:B:1298:LEU:HA	1:B:1301:ILE:HB	1.82	0.61
1:A:713:GLU:O	1:A:717:LYS:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1604:SER:HB2	1:A:1632:TRP:HB3	1.82	0.61
1:A:2399:GLU:O	1:A:2402:LEU:HG	2.00	0.61
1:A:3008:TRP:HA	1:A:3050:LYS:HG2	1.82	0.61
1:A:3684:SER:O	1:A:3688:SER:OG	2.14	0.61
1:A:3809:THR:HA	1:A:3931:ALA:HA	1.82	0.61
1:B:592:GLU:HB3	1:B:601:TRP:HZ2	1.65	0.61
1:B:913:ARG:HG3	1:B:937:MSE:SE	2.50	0.61
1:B:1214:GLU:HB2	1:B:1218:SER:HB3	1.82	0.61
1:B:1374:GLN:O	1:B:1378:GLU:HB2	2.00	0.61
1:B:2142:ILE:HA	1:B:2145:PHE:HD2	1.62	0.61
1:A:83:GLU:HG3	1:A:130:LEU:HD13	1.82	0.61
1:A:1108:MSE:O	1:A:1112:ALA:N	2.32	0.61
1:A:1996:VAL:HG23	1:A:1997:PRO:HD2	1.82	0.61
1:A:2274:ILE:HD13	1:A:2318:ALA:HB2	1.81	0.61
1:A:3037:GLN:HG3	1:A:3040:TYR:HE2	1.65	0.61
1:A:3578:LEU:HD13	1:A:3683:CYS:SG	2.40	0.61
1:A:3924:HIS:H	1:A:3927:ASN:HD22	1.46	0.61
1:B:980:THR:HG22	1:B:984:TYR:HE2	1.66	0.61
1:B:1403:MSE:HA	1:B:1406:LEU:HB2	1.81	0.61
1:B:2177:ASN:HD22	1:B:2182:ILE:CG2	2.12	0.61
1:B:2399:GLU:O	1:B:2402:LEU:HG	2.00	0.61
1:B:2957:LEU:HB3	1:B:3989:ARG:HH22	1.63	0.61
1:A:440:VAL:HG21	1:A:1814:PHE:CZ	2.36	0.61
1:A:913:ARG:NE	1:A:916:GLU:OE2	2.32	0.61
1:A:2167:PRO:O	1:A:2171:LEU:HB3	2.01	0.61
1:A:2925:GLU:O	1:A:2927:ALA:N	2.30	0.61
1:A:3483:MSE:C	1:A:3516:HIS:HE2	2.08	0.61
1:B:1431:LEU:HD11	1:B:1479:VAL:HG22	1.81	0.61
1:B:2538:ARG:HH11	1:B:2565:MSE:CB	2.08	0.61
1:B:2961:ALA:HB1	1:B:3002:TYR:CD1	2.33	0.61
1:A:508:HIS:HD2	1:A:725:LEU:HD22	1.65	0.61
1:A:1086:TYR:CD2	1:A:1090:ARG:HG2	2.36	0.61
1:A:1574:ASN:HB3	1:A:1582:LEU:HD21	1.81	0.61
1:A:2936:TYR:O	1:A:2940:ARG:HB2	2.00	0.61
1:A:3630:ARG:HD2	1:A:3633:ILE:HG12	1.83	0.61
1:A:3962:ARG:CZ	1:A:3962:ARG:HB2	2.30	0.61
1:B:2220:MSE:SE	1:B:2256:ILE:HD11	2.51	0.61
1:B:2849:SER:HB3	1:B:2881:LEU:HD12	1.82	0.61
1:B:2877:SER:C	1:B:2879:GLY:H	2.08	0.61
1:B:3152:SER:HB3	1:B:3153:SER:CB	2.31	0.61
1:B:3167:ARG:HD3	1:B:3186:ARG:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:575:ILE:HG12	1:A:579:LEU:HB2	1.81	0.61
1:A:1076:LEU:HD22	1:A:1111:LEU:HG	1.83	0.61
1:A:2517:LEU:HA	1:A:2520:ILE:HG22	1.82	0.61
1:A:3765:GLU:O	1:A:3768:PHE:HB2	2.00	0.61
1:A:3962:ARG:NH1	1:A:4124:TRP:CZ3	2.66	0.61
1:B:612:LEU:O	1:B:616:LYS:N	2.31	0.61
1:B:1115:HIS:O	1:B:1118:GLU:C	2.44	0.61
1:B:1378:GLU:O	1:B:1382:ILE:HG12	2.01	0.61
1:B:2011:ALA:O	1:B:2013:GLU:N	2.33	0.61
1:B:3435:ASP:O	1:B:3439:LEU:HB3	2.01	0.61
1:B:4082:ARG:CG	1:B:4091:ALA:HB2	2.30	0.61
1:A:446:PHE:CE2	1:A:530:LEU:HB3	2.34	0.61
1:A:1178:ARG:HB3	1:A:1179:PRO:HD3	1.82	0.61
1:A:2396:LEU:HA	1:A:2400:VAL:HG23	1.82	0.61
1:A:3885:ARG:O	1:A:3889:ARG:HB2	1.99	0.61
1:B:146:GLU:HB2	1:B:149:ILE:HB	1.83	0.61
1:B:1108:MSE:O	1:B:1112:ALA:N	2.33	0.61
1:B:3314:SER:HB3	1:B:3318:LYS:HE3	1.82	0.61
1:B:3491:PRO:CB	1:B:3711:PRO:HB3	2.30	0.61
1:B:3493:TRP:HB3	1:B:3711:PRO:HA	1.81	0.61
1:A:934:LEU:HA	1:A:937:MSE:HE3	1.83	0.61
1:A:970:LEU:HD21	1:A:1031:ARG:HH21	1.65	0.61
1:A:1352:SER:HB3	1:A:1353:PRO:HD3	1.83	0.61
1:A:3414:MSE:HE1	1:A:3450:MSE:HA	1.82	0.61
1:A:3435:ASP:O	1:A:3439:LEU:CB	2.49	0.61
1:A:3797:THR:HG22	1:A:3800:LEU:HG	1.82	0.61
1:B:938:VAL:O	1:B:942:LEU:HB2	2.00	0.61
1:B:1270:PHE:HZ	1:B:1347:THR:HB	1.66	0.61
1:B:2847:THR:HB	1:B:2850:PHE:HD2	1.65	0.61
1:B:3047:SER:O	1:B:3050:LYS:HG3	2.01	0.61
1:B:3729:MSE:HE2	1:B:3737:ARG:HB2	1.82	0.61
1:B:3835:PRO:HA	1:B:3871:PHE:HE1	1.65	0.61
1:B:3923:ARG:CD	1:B:3962:ARG:HH22	2.14	0.61
1:A:349:ILE:CD1	1:A:368:LEU:HD12	2.31	0.61
1:A:935:HIS:HB2	1:A:984:TYR:CE2	2.34	0.61
1:A:1142:HIS:O	1:A:1144:SER:N	2.30	0.61
1:A:1248:PHE:HB3	1:A:3695:LEU:HD23	1.83	0.61
1:A:1270:PHE:CZ	1:A:1347:THR:HG23	2.35	0.61
1:A:2204:GLY:HA2	1:A:2208:ASP:OD2	2.00	0.61
1:A:2479:TRP:CZ3	1:A:2480:ILE:HD13	2.36	0.61
1:A:3517:SER:HA	1:A:3520:GLU:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3543:LYS:HE2	1:A:3545:THR:HG22	1.82	0.61
1:B:206:THR:HA	1:B:209:THR:OG1	2.01	0.61
1:B:1352:SER:O	1:B:1354:GLU:N	2.33	0.61
1:B:1587:VAL:HG23	1:B:1647:ALA:HB2	1.82	0.61
1:B:2814:SER:O	1:B:2818:LYS:HB2	2.00	0.61
1:A:114:VAL:HG12	1:A:130:LEU:HD21	1.81	0.61
1:A:239:GLU:HG3	1:A:240:GLU:HG3	1.83	0.61
1:A:273:ARG:HG3	1:A:274:LEU:N	2.15	0.61
1:A:437:HIS:O	1:A:440:VAL:HG22	2.00	0.61
1:A:484:HIS:CD2	1:A:556:SER:HB3	2.36	0.61
1:A:621:SER:HB3	1:A:659:ARG:CZ	2.31	0.61
1:A:645:TRP:CE3	1:A:660:LEU:HD11	2.35	0.61
1:A:1740:VAL:O	1:A:1743:MSE:HG3	1.99	0.61
1:A:2933:ILE:HD13	1:A:3976:GLU:HG3	1.83	0.61
1:A:2960:GLU:HG2	1:A:3252:PHE:CD2	2.36	0.61
1:B:2157:PHE:HE2	1:B:2199:LEU:HD13	1.66	0.61
1:B:2345:VAL:O	1:B:2349:LEU:HG	2.01	0.61
1:B:3247:ARG:NE	1:B:3278:GLN:OE1	2.30	0.61
1:B:3614:TYR:O	1:B:3618:GLY:N	2.29	0.61
1:B:3631:LYS:HA	1:B:3634:GLN:HB3	1.83	0.61
1:A:177:LEU:O	1:A:180:LEU:N	2.34	0.60
1:A:446:PHE:HD1	1:A:447:PRO:HD3	1.65	0.60
1:A:637:LYS:O	1:A:641:PHE:HB3	2.01	0.60
1:A:2183:HIS:CE1	1:A:2237:ILE:HD13	2.36	0.60
1:A:2260:PHE:HD1	1:A:2274:ILE:HG22	1.65	0.60
1:A:3575:LEU:C	1:A:3686:TRP:HH2	2.09	0.60
1:A:3915:HIS:O	1:A:3918:LEU:N	2.33	0.60
1:B:659:ARG:NH2	1:B:662:LEU:HG	2.10	0.60
1:B:1886:LYS:HE3	1:B:1924:THR:HG21	1.82	0.60
1:B:2274:ILE:HA	1:B:2277:LEU:HG	1.83	0.60
1:B:2481:HIS:HE1	1:B:2485:ARG:HH11	1.49	0.60
1:B:2575:PRO:HD2	1:B:2785:ILE:HD11	1.81	0.60
1:B:3498:TRP:CD1	1:B:3498:TRP:O	2.54	0.60
1:A:135:LEU:HD21	1:A:173:LYS:HD2	1.83	0.60
1:A:1087:ARG:HD2	1:A:1137:ILE:HD11	1.83	0.60
1:A:1118:GLU:HG3	1:A:3743:HIS:CE1	2.35	0.60
1:A:1155:ARG:O	1:A:1158:PRO:HD2	2.01	0.60
1:A:1885:PRO:O	1:A:1889:VAL:HG23	2.00	0.60
1:A:3117:ILE:HG13	1:A:3120:LEU:HB3	1.82	0.60
1:A:3283:LEU:HD11	1:A:3297:VAL:HG13	1.82	0.60
1:A:3788:LEU:HD13	1:A:3910:LEU:HD23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3947:GLY:O	1:A:3950:THR:N	2.34	0.60
1:B:175:TYR:HA	1:B:178:LEU:HD12	1.82	0.60
1:B:627:VAL:HG12	1:B:628:GLU:N	2.15	0.60
1:B:775:GLU:O	1:B:779:TYR:HD2	1.84	0.60
1:B:1419:LEU:O	1:B:1421:GLU:N	2.34	0.60
1:B:1711:ARG:HG3	1:B:1712:ARG:H	1.65	0.60
1:B:1903:SER:O	1:B:1906:THR:OG1	2.18	0.60
1:B:2316:TYR:CZ	1:B:2317:ALA:HB2	2.36	0.60
1:B:2989:ALA:O	1:B:2993:PHE:N	2.32	0.60
1:B:3595:GLU:HA	1:B:3598:LYS:HD2	1.81	0.60
1:A:246:ARG:HA	1:A:249:PHE:HD2	1.66	0.60
1:A:607:ASP:HA	1:A:610:ALA:HB3	1.81	0.60
1:A:1452:VAL:HG11	1:A:1502:SER:HB3	1.82	0.60
1:A:1805:PHE:HA	1:A:1808:ASP:OD2	2.00	0.60
1:A:2167:PRO:HB2	1:A:2171:LEU:HD22	1.83	0.60
1:A:2813:PHE:HA	1:A:2816:ILE:HG22	1.82	0.60
1:B:242:PRO:HB3	1:B:282:PHE:CD1	2.35	0.60
1:B:404:ASP:O	1:B:406:ARG:N	2.33	0.60
1:B:1762:MSE:HE2	1:B:1899:VAL:HG11	1.83	0.60
1:B:2353:GLN:HG2	1:B:2361:ILE:HD13	1.83	0.60
1:B:2775:TYR:HB3	1:B:2776:ARG:NH2	2.16	0.60
1:B:3048:LYS:O	1:B:3052:LEU:N	2.31	0.60
1:B:3265:GLU:HA	1:B:3267:LYS:HE3	1.84	0.60
1:B:3989:ARG:HH21	1:B:4100:GLU:CD	2.09	0.60
1:A:390:GLN:O	1:A:393:LYS:HG2	2.01	0.60
1:A:1761:LEU:HD22	1:A:1860:GLU:HB3	1.83	0.60
1:A:1981:LEU:O	1:A:1985:LYS:HG2	2.02	0.60
1:A:2088:LEU:O	1:A:2092:GLU:N	2.34	0.60
1:A:3876:SER:O	1:A:3879:PRO:HD2	2.00	0.60
1:B:108:LYS:HG2	1:B:138:PHE:HA	1.81	0.60
1:B:3065:ILE:HD13	1:B:3089:LEU:HD21	1.83	0.60
1:B:3594:ALA:HB1	1:B:4028:ILE:HD13	1.83	0.60
1:B:3954:PRO:HB3	1:B:4027:TRP:HA	1.82	0.60
1:A:617:PRO:HB3	1:A:659:ARG:HG2	1.82	0.60
1:A:908:ASP:HB3	1:A:2807:GLN:OE1	2.01	0.60
1:A:1131:ILE:HA	1:A:1134:LEU:HG	1.84	0.60
1:A:1978:PHE:O	1:A:1981:LEU:HB3	2.01	0.60
1:A:1983:ASP:O	1:A:1987:ARG:HB2	2.02	0.60
1:A:2413:PHE:CD1	1:A:2442:MSE:HG2	2.36	0.60
1:A:2430:GLU:OE2	1:A:2461:PHE:HD1	1.83	0.60
1:A:3181:ASP:O	1:A:3184:THR:OG1	2.13	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4004:VAL:O	1:A:4008:GLU:CB	2.50	0.60
1:B:224:LEU:HD22	1:B:248:ILE:HD11	1.83	0.60
1:B:327:VAL:HG22	1:B:338:LEU:HD13	1.83	0.60
1:B:730:LEU:HD23	1:B:733:LEU:HD12	1.83	0.60
1:B:1259:LEU:HG	1:B:1337:VAL:HG22	1.83	0.60
1:B:1743:MSE:HG2	1:B:1747:LEU:HD12	1.83	0.60
1:B:3389:VAL:HG11	1:B:3419:PHE:CZ	2.35	0.60
1:B:3965:ARG:HE	1:B:3969:ASN:HD21	1.49	0.60
1:A:966:PHE:O	1:A:969:LEU:HB3	2.02	0.60
1:A:1100:VAL:O	1:A:1104:LEU:N	2.33	0.60
1:A:1935:GLU:HB2	1:A:1986:ARG:CZ	2.31	0.60
1:A:3155:VAL:N	1:A:3156:PRO:HD2	2.17	0.60
1:A:3725:ARG:NH1	1:A:3737:ARG:HH22	1.99	0.60
1:B:613:HIS:ND1	1:B:614:PRO:HD3	2.16	0.60
1:B:1742:CYS:HA	1:B:1745:LYS:HD2	1.83	0.60
1:B:2472:GLN:O	1:B:2476:ILE:HG23	2.02	0.60
1:B:3483:MSE:O	1:B:3516:HIS:NE2	2.35	0.60
1:B:3670:MSE:O	1:B:3674:SER:HB3	2.00	0.60
1:A:249:PHE:O	1:A:253:LEU:HG	2.01	0.60
1:A:566:ASP:OD2	1:A:1800:SER:HA	2.02	0.60
1:A:913:ARG:HA	1:A:916:GLU:CD	2.27	0.60
1:A:3503:VAL:HG23	1:A:3536:SER:HA	1.83	0.60
1:A:3760:GLN:OE1	1:A:3760:GLN:N	2.34	0.60
1:A:4121:TRP:CD1	1:A:4123:GLY:H	2.18	0.60
1:B:1066:LEU:HA	1:B:1069:HIS:CD2	2.36	0.60
1:B:1220:LEU:HD13	1:B:1274:ARG:HG3	1.81	0.60
1:B:1946:ASN:O	1:B:1949:ILE:HG22	2.02	0.60
1:B:2326:ILE:HG21	1:B:2341:LEU:HD23	1.82	0.60
1:B:3723:ASP:HB2	1:B:3741:ARG:HE	1.66	0.60
1:A:752:LEU:HB2	1:A:756:PHE:CE1	2.37	0.60
1:A:936:SER:O	1:A:939:MSE:N	2.35	0.60
1:A:3152:SER:HB3	1:A:3153:SER:CB	2.32	0.60
1:A:3487:ILE:CG2	1:A:3495:PHE:HB2	2.31	0.60
1:B:649:PHE:HE1	1:B:653:LEU:H	1.49	0.60
1:B:1130:ALA:O	1:B:1134:LEU:HG	2.01	0.60
1:B:1146:ASN:O	1:B:1150:LYS:HB3	2.02	0.60
1:B:3344:GLU:O	1:B:3348:LEU:HG	2.02	0.60
1:B:3928:PHE:HE2	1:B:3962:ARG:HE	1.47	0.60
1:B:3962:ARG:NH1	1:B:4124:TRP:CH2	2.70	0.60
1:B:3966:GLN:H	1:B:4128:MSE:C	2.10	0.60
1:A:416:SER:O	1:A:420:VAL:HB	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:999:LYS:HB3	1:A:1001:PHE:CE2	2.37	0.60
1:A:1063:LEU:HD13	1:A:1082:PHE:CZ	2.37	0.60
1:A:1583:MSE:HE2	1:A:1639:LEU:HB2	1.83	0.60
1:A:2083:LEU:H	1:A:2086:ASP:HB2	1.67	0.60
1:A:2274:ILE:CG1	1:A:2314:GLU:HB3	2.32	0.60
1:A:2554:PHE:O	1:A:2557:LEU:N	2.35	0.60
1:A:3351:ILE:O	1:A:3355:LYS:HG2	2.02	0.60
1:B:922:SER:C	1:B:924:ARG:H	2.09	0.60
1:B:1520:ALA:O	1:B:1524:LEU:HD13	2.01	0.60
1:B:3916:TRP:CE3	1:B:3917:ILE:HD12	2.36	0.60
1:B:3950:THR:OG1	1:B:3957:GLU:O	2.09	0.60
1:A:249:PHE:CD1	1:A:297:LEU:HD13	2.37	0.60
1:A:2157:PHE:HE1	1:A:2203:THR:HB	1.66	0.60
1:A:2389:PHE:CD2	1:A:2396:LEU:HD22	2.36	0.60
1:A:3971:MSE:HE1	1:A:3980:MSE:SE	2.52	0.60
1:B:1762:MSE:HG2	1:B:1896:ILE:HA	1.83	0.60
1:B:2145:PHE:HZ	1:B:2185:MSE:HA	1.66	0.60
1:B:2981:TRP:O	1:B:2985:GLU:HB2	2.02	0.60
1:B:3444:ALA:HA	1:B:3475:TYR:OH	2.02	0.60
1:B:3571:PHE:O	1:B:3575:LEU:CB	2.49	0.60
1:A:396:PHE:CD2	1:A:441:MSE:HG3	2.37	0.59
1:A:414:LEU:HA	1:A:417:VAL:HB	1.84	0.59
1:A:722:LYS:HB3	1:A:727:ALA:HA	1.84	0.59
1:A:933:LEU:HD11	1:A:2795:GLN:OE1	2.02	0.59
1:A:2183:HIS:HE1	1:A:2237:ILE:HG21	1.67	0.59
1:A:2436:LEU:O	1:A:2439:ILE:HG22	2.02	0.59
1:A:3498:TRP:HE1	1:A:3502:MSE:SE	2.35	0.59
1:A:3572:ILE:O	1:A:3575:LEU:HB2	2.01	0.59
1:A:3584:LEU:O	1:A:3588:TRP:HB3	2.02	0.59
1:B:18:THR:O	1:B:22:ALA:CB	2.49	0.59
1:B:1166:LEU:HB3	1:B:1170:LYS:NZ	2.17	0.59
1:B:1569:THR:O	1:B:1573:LYS:HB2	2.02	0.59
1:B:1750:LEU:O	1:B:1754:GLN:HG3	2.02	0.59
1:B:3722:PHE:CE1	1:B:3740:ILE:HG12	2.23	0.59
1:A:1344:PHE:HA	1:A:1347:THR:HB	1.84	0.59
1:A:1438:GLY:O	1:A:1441:ALA:HB2	2.01	0.59
1:A:1916:ILE:HG23	1:A:1920:TYR:CE1	2.36	0.59
1:A:2139:PRO:O	1:A:2143:ARG:HD2	2.01	0.59
1:A:2352:HIS:HB2	1:A:2364:LEU:HD11	1.83	0.59
1:A:3047:SER:HB2	1:A:3050:LYS:HE2	1.84	0.59
1:A:3435:ASP:O	1:A:3439:LEU:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3572:ILE:HA	1:A:3575:LEU:HG	1.82	0.59
1:A:3723:ASP:HB2	1:A:3741:ARG:HE	1.67	0.59
1:B:850:GLU:OE2	1:B:854:ARG:NH2	2.34	0.59
1:B:977:ASP:HB3	1:B:981:ARG:H	1.67	0.59
1:B:2430:GLU:HG3	1:B:2465:PRO:CB	2.32	0.59
1:A:393:LYS:HA	1:A:396:PHE:HD1	1.67	0.59
1:A:913:ARG:CB	1:A:934:LEU:HD12	2.32	0.59
1:A:980:THR:O	1:A:984:TYR:HD1	1.85	0.59
1:A:1651:LYS:O	1:A:1654:GLN:HB2	2.02	0.59
1:A:2325:LEU:HG	1:A:2329:TYR:CE2	2.37	0.59
1:A:3913:ILE:HD11	1:A:3984:MSE:HB3	1.83	0.59
1:A:3946:PHE:HE2	1:A:4048:LYS:HD2	1.68	0.59
1:B:610:ALA:HA	1:B:613:HIS:CE1	2.37	0.59
1:B:1175:HIS:O	1:B:1179:PRO:HD3	2.01	0.59
1:B:2031:LEU:C	1:B:2033:ASP:H	2.07	0.59
1:A:966:PHE:HB3	1:A:967:PRO:HD3	1.83	0.59
1:A:1029:CYS:SG	1:A:1085:ILE:HG13	2.42	0.59
1:A:1894:SER:HB2	1:A:1896:ILE:HG13	1.83	0.59
1:A:1996:VAL:HG21	1:A:2047:THR:OG1	2.02	0.59
1:A:2510:LEU:HG	1:A:2522:ARG:HE	1.68	0.59
1:A:3080:LEU:HB3	1:A:3102:TYR:CE1	2.37	0.59
1:A:3090:TYR:HB2	1:A:3099:ALA:HB2	1.84	0.59
1:A:3439:LEU:O	1:A:3443:PRO:HD3	2.02	0.59
1:A:3583:LEU:HD13	1:A:3755:GLY:HA3	1.85	0.59
1:B:108:LYS:HB3	1:B:138:PHE:CD1	2.37	0.59
1:B:1005:ASP:N	1:B:1005:ASP:OD1	2.34	0.59
1:B:2129:LEU:HD22	1:B:2144:LEU:HD11	1.83	0.59
1:B:2330:VAL:CG2	1:B:2335:ASN:HA	2.28	0.59
1:B:2420:PHE:CZ	1:B:2436:LEU:HB3	2.37	0.59
1:B:2542:LEU:CB	1:B:2546:TYR:HE2	2.14	0.59
1:B:2957:LEU:HD21	1:B:4101:GLU:CD	2.27	0.59
1:B:3333:THR:OG1	1:B:3385:LEU:HB3	2.01	0.59
1:B:3887:PHE:HE1	1:B:3900:LEU:HB3	1.67	0.59
2:S:217:UNK:HA	2:S:220:MSE:SE	2.52	0.59
1:A:136:GLN:HA	1:A:139:ARG:HD3	1.84	0.59
1:A:2274:ILE:HG12	1:A:2314:GLU:HB3	1.83	0.59
1:A:2420:PHE:CZ	1:A:2436:LEU:HB3	2.37	0.59
1:A:3811:THR:HG22	1:A:3929:MSE:SE	2.53	0.59
1:A:4081:ALA:HA	1:A:4113:ASP:OD2	2.02	0.59
1:B:633:ILE:HG22	1:B:634:LEU:HD23	1.84	0.59
1:B:1908:GLY:HA3	1:B:1952:ILE:HG13	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3069:MSE:HA	1:B:3072:GLU:HB3	1.84	0.59
1:B:3389:VAL:O	1:B:3393:GLU:HG3	2.02	0.59
1:A:1416:GLU:O	1:A:1420:ARG:HB2	2.03	0.59
1:A:1711:ARG:HB3	1:A:1739:TYR:HE1	1.68	0.59
1:A:1925:GLU:O	1:A:1928:ALA:N	2.32	0.59
1:A:2326:ILE:O	1:A:2330:VAL:HB	2.03	0.59
1:A:3156:PRO:HB2	1:A:3197:LEU:HD12	1.84	0.59
1:A:3581:PRO:O	1:A:3585:PHE:HD1	1.85	0.59
1:B:172:GLU:OE2	1:B:264:ARG:NH2	2.36	0.59
1:B:1368:LEU:HA	1:B:1371:VAL:HG12	1.83	0.59
1:B:2239:LYS:O	1:B:2242:VAL:HB	2.02	0.59
1:B:2281:MSE:SE	1:B:2286:PRO:HB3	2.52	0.59
1:B:2501:LEU:O	1:B:2505:VAL:HG23	2.02	0.59
1:B:2921:LEU:HD12	1:B:2922:ARG:N	2.17	0.59
1:B:3592:VAL:HA	1:B:3609:MSE:SE	2.53	0.59
1:A:253:LEU:HD21	1:A:297:LEU:HA	1.84	0.59
1:A:940:PHE:CE1	1:A:2791:ILE:HG21	2.37	0.59
1:A:1267:TYR:O	1:A:1271:ILE:HG13	2.03	0.59
1:A:1363:LEU:C	1:A:1365:ASN:H	2.11	0.59
1:A:1467:ILE:HG13	1:A:1468:LEU:HG	1.84	0.59
1:A:1962:TYR:O	1:A:1965:PHE:N	2.35	0.59
1:A:2299:TYR:O	1:A:2302:ALA:N	2.35	0.59
1:A:2319:ALA:O	1:A:2323:LEU:HD12	2.03	0.59
1:A:2851:PHE:HA	1:A:2854:PHE:CE2	2.38	0.59
1:A:2957:LEU:HB3	1:A:3989:ARG:HH12	1.63	0.59
1:A:3031:TRP:CE3	1:A:3034:PRO:HD3	2.37	0.59
1:A:3492:CYS:O	1:A:3495:PHE:CB	2.50	0.59
1:A:3612:ARG:HD3	1:A:3799:ARG:NH2	2.17	0.59
1:A:3963:LEU:HD12	1:A:3967:PHE:HZ	1.66	0.59
1:B:327:VAL:HG13	1:B:338:LEU:HD13	1.84	0.59
1:B:1594:SER:OG	1:B:1683:LYS:HD3	2.02	0.59
1:B:2040:MSE:HA	1:B:2043:PHE:HD1	1.68	0.59
1:B:2144:LEU:HB3	1:B:2148:LYS:CE	2.33	0.59
1:B:2291:GLN:O	1:B:2293:GLY:N	2.35	0.59
1:B:2638:UNK:O	1:B:2790:LEU:HD13	2.02	0.59
1:B:3000:ASP:O	1:B:3004:HIS:N	2.35	0.59
1:A:2270:ASN:O	1:A:2274:ILE:HG23	2.03	0.59
1:A:2543:ASN:HA	1:A:2546:TYR:HD2	1.67	0.59
1:B:179:GLY:HA3	1:B:229:SER:HB3	1.84	0.59
1:B:270:ALA:O	1:B:274:LEU:HG	2.03	0.59
1:B:886:TRP:CH2	1:B:892:LEU:HD13	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1655:ILE:HG12	1:B:1681:ASP:HB3	1.83	0.59
1:B:2419:ASP:O	1:B:2422:GLN:HB3	2.02	0.59
1:B:2645:UNK:HA	1:B:2649:UNK:C	2.33	0.59
1:B:3273:LEU:O	1:B:3277:VAL:HG12	2.03	0.59
1:B:4062:ASP:O	1:B:4065:LEU:HG	2.03	0.59
1:A:194:GLU:HA	1:A:197:PHE:HD2	1.68	0.59
1:A:242:PRO:O	1:A:246:ARG:CB	2.50	0.59
1:A:980:THR:HG23	1:A:984:TYR:CE1	2.34	0.59
1:A:1060:PHE:O	1:A:1064:TYR:HD2	1.85	0.59
1:A:1437:TYR:O	1:A:1439:PRO:HD2	2.02	0.59
1:A:1462:GLY:C	1:A:1464:LEU:H	2.11	0.59
1:A:1571:LEU:HD13	1:A:1599:GLY:O	2.03	0.59
1:A:1647:ALA:O	1:A:1651:LYS:HE3	2.02	0.59
1:A:2546:TYR:CE1	1:A:2558:ALA:HB2	2.38	0.59
1:A:2868:LEU:O	1:A:2872:ASP:HB2	2.03	0.59
1:A:3269:ARG:HH11	1:A:3312:VAL:HA	1.66	0.59
1:A:3638:LYS:O	1:A:3641:ASP:N	2.36	0.59
1:A:3811:THR:O	1:A:3811:THR:OG1	2.19	0.59
1:A:4006:VAL:HA	1:A:4012:ASP:OD2	2.03	0.59
1:B:197:PHE:CZ	1:B:230:LEU:HD22	2.37	0.59
1:B:390:GLN:NE2	1:B:1723:PRO:HG2	2.18	0.59
1:B:392:CYS:HA	1:B:395:MSE:HB2	1.83	0.59
1:B:437:HIS:HA	1:B:1814:PHE:CZ	2.38	0.59
1:B:767:GLU:HG2	1:B:846:ILE:O	2.03	0.59
1:B:1018:VAL:HB	1:B:1074:LYS:CB	2.28	0.59
1:B:2185:MSE:O	1:B:2189:ILE:HG13	2.02	0.59
1:B:3753:LYS:HD3	1:B:3758:LEU:HD21	1.85	0.59
1:B:3909:ALA:HB2	1:B:3980:MSE:HE2	1.83	0.59
1:A:1866:GLN:O	1:A:1870:LYS:HB2	2.03	0.59
1:A:1992:VAL:HG21	1:A:2044:ASP:OD1	2.03	0.59
1:A:2330:VAL:CG2	1:A:2335:ASN:HA	2.31	0.59
1:A:3076:ALA:HB1	1:A:3080:LEU:HD11	1.85	0.59
1:A:3324:ARG:O	1:A:3328:ILE:HG13	2.02	0.59
1:A:3505:LEU:HB3	1:A:3510:GLN:OE1	2.03	0.59
1:B:1016:GLY:O	1:B:1019:ASP:HB2	2.03	0.59
1:B:3908:HIS:O	1:B:3911:ILE:HG12	2.03	0.59
1:A:535:LEU:HD13	1:A:626:LEU:HD21	1.84	0.58
1:A:982:GLN:O	1:A:986:PRO:HD3	2.03	0.58
1:A:1736:PHE:O	1:A:1740:VAL:HG23	2.02	0.58
1:A:2462:VAL:CB	1:A:2473:MSE:SE	3.00	0.58
1:A:3585:PHE:HE2	1:A:3617:LEU:HD11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:673:THR:HG22	1:B:704:PHE:HE1	1.68	0.58
1:B:806:SER:O	1:B:809:THR:N	2.36	0.58
1:B:3149:GLY:HA3	1:B:3196:LYS:HE3	1.84	0.58
1:B:3351:ILE:HG23	1:B:3355:LYS:HE2	1.84	0.58
1:B:3503:VAL:HG22	1:B:3539:SER:HB2	1.84	0.58
1:B:3516:HIS:CG	1:B:3517:SER:N	2.70	0.58
1:A:437:HIS:CD2	1:A:438:LEU:N	2.70	0.58
1:A:1102:GLU:HA	1:A:1150:LYS:NZ	2.18	0.58
1:A:1330:TYR:O	1:A:1334:LYS:HG2	2.03	0.58
1:A:2058:ASP:H	1:A:2061:PRO:HG2	1.68	0.58
1:A:2221:LYS:O	1:A:2225:HIS:ND1	2.36	0.58
1:A:2560:ASN:OD1	1:A:2800:ARG:NH1	2.36	0.58
1:A:2936:TYR:CD2	1:A:3979:LEU:HD21	2.38	0.58
1:A:3274:VAL:O	1:A:3277:VAL:HG22	2.04	0.58
1:A:3769:GLN:HA	1:A:3772:ASN:OD1	2.03	0.58
1:A:3813:LYS:CE	1:A:3926:ASN:HB2	2.31	0.58
1:A:3872:ARG:NH1	1:A:3965:ARG:HH12	1.98	0.58
1:B:111:CYS:HB2	1:B:134:LEU:HB3	1.86	0.58
1:B:176:GLU:HG2	1:B:225:LYS:HD3	1.83	0.58
1:B:738:HIS:ND1	1:B:745:VAL:HG13	2.18	0.58
1:B:1036:PHE:CD1	1:B:1059:LEU:HD11	2.38	0.58
1:B:1648:LEU:HD13	1:B:1688:LEU:HD21	1.85	0.58
1:B:2145:PHE:CZ	1:B:2185:MSE:HA	2.39	0.58
1:B:3190:LEU:HD21	1:B:3235:LYS:HG2	1.85	0.58
1:B:3583:LEU:HD21	1:B:3733:ARG:HD3	1.84	0.58
1:B:3637:GLY:O	1:B:3641:ASP:HB3	2.03	0.58
1:A:368:LEU:CD2	1:A:384:MSE:HB2	2.18	0.58
1:A:1386:ILE:HA	1:A:1389:VAL:HB	1.85	0.58
1:A:1454:ALA:O	1:A:1457:GLN:HB2	2.03	0.58
1:A:2378:PHE:O	1:A:2382:VAL:HG22	2.02	0.58
1:A:2942:ILE:HD12	1:A:2987:THR:HG22	1.85	0.58
1:A:3505:LEU:HA	1:A:3509:ASP:HB2	1.84	0.58
1:B:321:LYS:O	1:B:325:ASN:ND2	2.26	0.58
1:B:435:LEU:O	1:B:439:VAL:HG23	2.03	0.58
1:B:535:LEU:HD21	1:B:622:ALA:O	2.03	0.58
1:B:752:LEU:HA	1:B:755:ALA:HB3	1.84	0.58
1:B:1918:LEU:HD13	1:B:1958:GLU:HB3	1.85	0.58
1:B:2003:LYS:O	1:B:2007:ILE:HG13	2.03	0.58
1:B:2157:PHE:HA	1:B:2160:TYR:CD2	2.38	0.58
1:B:2182:ILE:O	1:B:2186:VAL:HG12	2.03	0.58
1:B:2775:TYR:HB3	1:B:2776:ARG:CZ	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2936:TYR:HA	1:B:2939:LEU:HB2	1.85	0.58
1:B:3427:GLU:HB3	1:B:3439:LEU:HD22	1.85	0.58
1:A:446:PHE:HA	1:A:449:TYR:CE2	2.39	0.58
1:A:613:HIS:ND1	1:A:614:PRO:HD3	2.18	0.58
1:A:633:ILE:HG22	1:A:637:LYS:HG2	1.86	0.58
1:A:727:ALA:O	1:A:731:THR:HG23	2.03	0.58
1:A:985:GLU:HB3	1:A:986:PRO:HD3	1.84	0.58
1:A:1296:PHE:HD1	1:A:1299:GLU:OE2	1.86	0.58
1:A:1711:ARG:HB3	1:A:1739:TYR:CE1	2.37	0.58
1:A:1919:CYS:O	1:A:1923:PHE:CB	2.50	0.58
1:A:2884:LEU:HD22	1:A:3895:GLU:OE2	2.03	0.58
1:A:3099:ALA:O	1:A:3103:ILE:HB	2.02	0.58
1:A:3454:LEU:HA	1:A:3456:LEU:HD12	1.85	0.58
1:B:571:SER:O	1:B:605:THR:OG1	2.19	0.58
1:B:649:PHE:C	1:B:651:TYR:N	2.61	0.58
1:B:1963:GLN:NE2	1:B:1995:GLU:HG2	2.18	0.58
1:B:2070:GLU:HA	1:B:2071:GLN:HB2	1.85	0.58
1:B:2913:LYS:HG3	1:B:2914:ALA:N	2.18	0.58
1:A:1386:ILE:HB	1:A:1391:VAL:HG21	1.84	0.58
1:A:1959:LEU:HD13	1:A:1998:MSE:HE3	1.84	0.58
1:A:2420:PHE:CE1	1:A:2436:LEU:HB3	2.38	0.58
1:A:3092:LEU:HD22	1:A:3192:LYS:HE2	1.86	0.58
1:A:3587:ASP:HB3	1:A:4022:LYS:NZ	2.19	0.58
1:B:503:SER:O	1:B:507:ASP:HB2	2.02	0.58
1:B:649:PHE:C	1:B:651:TYR:H	2.10	0.58
1:B:713:GLU:O	1:B:717:LYS:HG2	2.04	0.58
1:B:722:LYS:HD2	1:B:730:LEU:HB2	1.85	0.58
1:B:971:ARG:HD2	1:B:1024:THR:OG1	2.04	0.58
1:B:1583:MSE:HE3	1:B:1643:MSE:CB	2.33	0.58
1:A:450:SER:O	1:A:454:GLN:HB2	2.04	0.58
1:A:491:CYS:SG	1:A:615:ALA:HB2	2.43	0.58
1:A:566:ASP:O	1:A:570:LYS:NZ	2.36	0.58
1:A:1648:LEU:HD22	1:A:1684:LEU:HD22	1.86	0.58
1:A:2275:GLN:O	1:A:2279:ILE:HG12	2.03	0.58
1:A:2962:ARG:NH2	1:A:3006:ALA:HB1	2.18	0.58
1:A:3092:LEU:HD22	1:A:3192:LYS:CE	2.33	0.58
1:A:3339:ASN:O	1:A:3341:LEU:N	2.36	0.58
1:B:143:LEU:O	1:B:144:MSE:HB2	2.03	0.58
1:B:572:VAL:HG13	1:B:573:LEU:H	1.67	0.58
1:B:762:TYR:C	1:B:764:PRO:HD3	2.29	0.58
1:B:1651:LYS:HB2	1:B:1684:LEU:CD1	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2011:ALA:HB3	1:B:2014:ALA:CB	2.29	0.58
1:B:2126:MSE:HE2	1:B:2156:VAL:HG22	1.86	0.58
1:B:2167:PRO:O	1:B:2171:LEU:CB	2.33	0.58
1:B:2900:LEU:HD12	1:B:2905:LEU:HD11	1.84	0.58
1:B:3636:PHE:C	1:B:3638:LYS:H	2.12	0.58
1:A:205:LYS:HA	1:A:208:MSE:HG2	1.84	0.58
1:A:509:ARG:HD2	1:A:655:LEU:HD13	1.84	0.58
1:A:1059:LEU:O	1:A:1063:LEU:HG	2.03	0.58
1:A:1101:PHE:CD2	1:A:1138:ILE:HG12	2.38	0.58
1:A:1327:GLY:O	1:A:1330:TYR:HB3	2.04	0.58
1:A:1594:SER:HA	1:A:1687:HIS:HE1	1.69	0.58
1:A:2085:MSE:SE	1:A:2088:LEU:HD22	2.54	0.58
1:A:2140:LEU:HA	1:A:2143:ARG:HD3	1.86	0.58
1:A:2454:LEU:O	1:A:2457:PRO:HD2	2.03	0.58
1:A:3910:LEU:O	1:A:3914:SER:OG	2.15	0.58
1:B:204:LEU:HD13	1:B:223:CYS:HB2	1.84	0.58
1:B:410:MSE:HE1	1:B:445:SER:HB3	1.85	0.58
1:B:446:PHE:CD1	1:B:447:PRO:HD3	2.38	0.58
1:B:903:PRO:HG2	1:B:2811:SER:HB2	1.85	0.58
1:B:1063:LEU:HD13	1:B:1082:PHE:CE1	2.38	0.58
1:B:1086:TYR:HE2	1:B:1090:ARG:HE	1.51	0.58
1:B:1644:ALA:HA	1:B:1648:LEU:HD12	1.83	0.58
1:B:1723:PRO:C	1:B:1725:GLN:H	2.12	0.58
1:B:1925:GLU:OE2	1:B:1959:LEU:HG	2.03	0.58
1:B:2358:ASP:HB2	1:B:2396:LEU:CD2	2.30	0.58
1:B:3463:LEU:HD13	1:B:4000:ASN:HB2	1.86	0.58
1:A:252:VAL:HG21	1:A:265:TYR:HB2	1.85	0.58
1:A:527:TYR:HH	1:A:619:ASP:H	1.51	0.58
1:A:617:PRO:O	1:A:620:PHE:N	2.36	0.58
1:A:1074:LYS:O	1:A:1075:ARG:HG2	2.04	0.58
1:A:2920:VAL:HB	1:A:3036:TYR:OH	2.04	0.58
1:A:3454:LEU:O	1:A:3494:GLN:NE2	2.34	0.58
1:A:3464:LYS:O	1:A:3468:LEU:HG	2.03	0.58
1:A:3525:TYR:O	1:A:3529:ILE:HB	2.03	0.58
1:A:3631:LYS:HE2	1:A:3634:GLN:HG2	1.86	0.58
1:A:3879:PRO:HA	1:A:3882:LEU:HB2	1.86	0.58
1:B:175:TYR:HE1	1:B:200:PHE:HB3	1.68	0.58
1:B:419:SER:O	1:B:422:LEU:HB2	2.04	0.58
1:B:1163:LEU:HA	1:B:1260:LEU:HD21	1.84	0.58
1:B:1606:ARG:HH11	1:B:1806:ARG:HB3	1.69	0.58
1:B:2167:PRO:HA	1:B:2171:LEU:HD13	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2366:LYS:HZ2	2:S:101:UNK:HA	1.69	0.58
1:A:352:VAL:HA	1:A:355:ASN:O	2.03	0.58
1:A:549:ALA:O	1:A:553:VAL:HG23	2.03	0.58
1:A:870:LEU:HD21	1:A:3129:LEU:HD11	1.86	0.58
1:A:3047:SER:O	1:A:3050:LYS:HG3	2.04	0.58
1:A:3322:ALA:O	1:A:3325:ASP:HB3	2.04	0.58
1:A:3772:ASN:O	1:A:3787:GLN:NE2	2.24	0.58
1:B:510:ALA:O	1:B:513:GLU:HB2	2.03	0.58
1:B:1756:PRO:C	1:B:1758:LEU:H	2.11	0.58
1:B:2040:MSE:HA	1:B:2043:PHE:CD1	2.38	0.58
1:B:2477:LEU:CB	1:B:2506:LEU:HD21	2.34	0.58
1:B:2481:HIS:O	1:B:2485:ARG:N	2.37	0.58
1:B:3459:ASN:CG	1:B:3710:LYS:HZ3	2.12	0.58
1:B:3571:PHE:O	1:B:3575:LEU:HB2	2.03	0.58
1:B:3974:MSE:HB3	1:B:3976:GLU:HB3	1.86	0.58
1:A:435:LEU:HD11	1:A:475:LEU:HD21	1.85	0.58
1:A:627:VAL:HG12	1:A:628:GLU:N	2.17	0.58
1:A:806:SER:O	1:A:809:THR:N	2.26	0.58
1:A:1010:LEU:HA	1:A:1013:ILE:CG1	2.30	0.58
1:A:1521:PHE:HB2	1:A:1589:ASN:OD1	2.04	0.58
1:A:2430:GLU:HG3	1:A:2465:PRO:HB3	1.86	0.58
1:A:2440:TYR:O	1:A:2443:MSE:HE2	2.04	0.58
1:B:669:LEU:O	1:B:671:SER:N	2.36	0.58
1:B:852:ARG:O	1:B:855:VAL:HB	2.04	0.58
1:B:1145:LEU:HB2	1:B:1149:LYS:HZ3	1.66	0.58
1:B:1883:ARG:HE	1:B:1923:PHE:HZ	1.50	0.58
1:B:3699:LEU:HB3	1:B:3718:ARG:HH12	1.69	0.58
1:A:488:ILE:O	1:A:612:LEU:HB2	2.04	0.57
1:A:852:ARG:O	1:A:855:VAL:HB	2.04	0.57
1:A:2349:LEU:O	1:A:2353:GLN:HG3	2.02	0.57
1:A:2440:TYR:OH	1:A:2455:LEU:HG	2.04	0.57
1:A:2474:TYR:HE2	1:A:2518:GLN:HB3	1.69	0.57
1:A:2870:SER:C	1:A:2872:ASP:H	2.11	0.57
1:A:2993:PHE:O	1:A:2997:ALA:N	2.25	0.57
1:A:3451:LEU:HG	1:A:3486:GLU:OE1	2.04	0.57
1:A:3649:SER:HA	1:A:3652:LEU:HG	1.86	0.57
1:A:3855:TYR:HB3	1:A:4074:PHE:HZ	1.66	0.57
1:A:3944:HIS:CG	1:A:3949:ALA:HA	2.39	0.57
1:B:647:TYR:HE1	1:B:1389:VAL:HA	1.68	0.57
1:B:1810:PRO:O	1:B:1812:LEU:HG	2.03	0.57
1:B:2568:MSE:HG3	1:B:2569:SER:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3104:GLN:HA	1:B:3107:ILE:HD12	1.86	0.57
1:B:3464:LYS:HE3	1:B:3468:LEU:HD21	1.86	0.57
1:B:3501:HIS:HA	1:B:4008:GLU:OE2	2.04	0.57
1:B:3981:TYR:CE1	1:B:4104:VAL:HB	2.39	0.57
1:A:771:ASN:C	1:A:773:LEU:H	2.12	0.57
1:A:1139:GLU:HG3	1:A:1175:HIS:NE2	2.18	0.57
1:A:1400:VAL:O	1:A:1404:LYS:HB2	2.04	0.57
1:A:1679:LEU:O	1:A:1683:LYS:HG3	2.04	0.57
1:A:2065:ARG:HD3	1:A:2100:LEU:HD11	1.86	0.57
1:A:2495:SER:O	1:A:2498:ILE:HB	2.04	0.57
1:A:2538:ARG:HH11	1:A:2565:MSE:CB	2.17	0.57
1:A:2549:LYS:HZ3	1:A:2557:LEU:HD22	1.70	0.57
1:A:2782:ASP:HA	1:A:2786:LYS:CB	2.34	0.57
1:A:2950:LYS:HE2	1:A:4105:LYS:NZ	2.18	0.57
1:B:205:LYS:HA	1:B:208:MSE:HE3	1.86	0.57
1:B:241:ASP:HB3	1:B:282:PHE:CE2	2.39	0.57
1:B:571:SER:HB2	1:B:606:SER:H	1.68	0.57
1:B:781:ASP:OD2	1:B:862:LEU:HD21	2.03	0.57
1:B:966:PHE:O	1:B:969:LEU:HB3	2.03	0.57
1:B:986:PRO:O	1:B:989:MSE:N	2.37	0.57
1:B:997:ASN:HA	1:B:1042:LYS:HD3	1.86	0.57
1:B:1761:LEU:O	1:B:1895:LYS:HB2	2.04	0.57
1:B:2323:LEU:HD21	1:B:2345:VAL:HG21	1.86	0.57
1:B:2374:LEU:CD1	1:B:2377:ARG:HB2	2.34	0.57
1:B:2837:LEU:HD12	1:B:2867:ALA:HB3	1.86	0.57
1:A:75:SER:O	1:A:77:GLU:N	2.36	0.57
1:A:756:PHE:O	1:A:759:GLY:C	2.47	0.57
1:A:1952:ILE:HG23	1:A:1953:CYS:O	2.04	0.57
1:A:2286:PRO:HD3	1:A:2325:LEU:HD23	1.85	0.57
1:A:3266:SER:HB2	1:A:3271:ASP:CG	2.29	0.57
1:A:3287:ARG:NH1	1:A:3331:GLY:HA3	2.19	0.57
1:A:3457:ASN:CG	1:A:3710:LYS:HZ2	2.12	0.57
1:A:3496:ILE:O	1:A:3498:TRP:N	2.37	0.57
1:A:3686:TRP:CZ3	1:A:3687:MSE:HG3	2.39	0.57
1:B:450:SER:O	1:B:454:GLN:HB2	2.03	0.57
1:B:2094:MSE:HE1	1:B:2143:ARG:HA	1.85	0.57
1:B:2366:LYS:NZ	2:S:101:UNK:HA	2.19	0.57
1:B:2927:ALA:HB2	1:B:2930:TYR:HD2	1.68	0.57
1:B:3181:ASP:HA	1:B:3184:THR:HG23	1.86	0.57
1:B:3496:ILE:HG23	1:B:3499:ILE:HD11	1.86	0.57
1:B:3871:PHE:HB3	1:B:4127:TRP:CD1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:205:LYS:NZ	1:A:243:GLN:OE1	2.25	0.57
1:A:368:LEU:HA	1:A:372:PRO:HG2	1.86	0.57
1:A:756:PHE:O	1:A:759:GLY:N	2.36	0.57
1:A:871:LEU:HD21	1:A:3122:HIS:CE1	2.39	0.57
1:A:987:LEU:O	1:A:991:LEU:HD13	2.05	0.57
1:A:1063:LEU:HD13	1:A:1082:PHE:CE1	2.39	0.57
1:A:1606:ARG:HA	1:A:1806:ARG:HD3	1.87	0.57
1:A:1655:ILE:HG12	1:A:1677:SER:O	2.05	0.57
1:A:2562:LEU:O	1:A:2566:THR:HG22	2.04	0.57
1:A:2960:GLU:HG2	1:A:3252:PHE:CG	2.39	0.57
1:A:3034:PRO:O	1:A:3038:GLU:HB3	2.05	0.57
1:B:16:GLN:O	1:B:20:SER:OG	2.21	0.57
1:B:358:GLU:HA	1:B:1858:LEU:HD22	1.85	0.57
1:B:473:PRO:CA	1:B:476:ARG:HH22	2.12	0.57
1:B:886:TRP:HD1	1:B:889:GLU:N	2.02	0.57
1:B:1000:LYS:O	1:B:1003:SER:N	2.30	0.57
1:B:1270:PHE:CZ	1:B:1347:THR:HB	2.38	0.57
1:B:1923:PHE:CE2	1:B:1927:MSE:HE1	2.40	0.57
1:B:1976:LEU:HD13	1:B:2031:LEU:CD2	2.34	0.57
1:B:2085:MSE:O	1:B:2089:ASN:ND2	2.37	0.57
1:B:2886:GLN:OE1	1:B:2921:LEU:HB2	2.03	0.57
1:B:3174:ASP:H	1:B:3175:PRO:HD2	1.67	0.57
1:B:3568:ILE:O	1:B:3571:PHE:N	2.38	0.57
1:A:131:LEU:O	1:A:135:LEU:HG	2.05	0.57
1:A:373:CYS:O	1:A:423:TYR:OH	2.20	0.57
1:A:805:LEU:CD2	1:A:3125:ARG:NH1	2.68	0.57
1:A:2183:HIS:C	1:A:2187:VAL:HB	2.26	0.57
1:A:2503:LYS:O	1:A:2507:ILE:HB	2.04	0.57
1:A:4057:ALA:HB2	1:A:4090:ARG:O	2.04	0.57
1:B:575:ILE:HD13	1:B:603:ILE:HB	1.86	0.57
1:B:923:ASP:O	1:B:927:LYS:HE2	2.03	0.57
1:B:1238:GLN:HE22	1:B:1297:PHE:HD1	1.51	0.57
1:B:1632:TRP:HA	1:B:1635:LYS:HD2	1.85	0.57
1:B:2190:VAL:O	1:B:2193:ILE:HG22	2.04	0.57
1:B:2210:VAL:HG13	1:B:2211:LEU:H	1.70	0.57
1:B:2321:GLU:O	1:B:2324:GLY:N	2.36	0.57
1:B:2555:LEU:HB2	1:B:2809:PHE:CE1	2.40	0.57
1:B:3765:GLU:O	1:B:3768:PHE:HB2	2.05	0.57
1:B:3767:LEU:O	1:B:3771:MSE:HG3	2.04	0.57
1:A:409:GLN:HG3	1:A:413:PHE:CZ	2.39	0.57
1:A:414:LEU:HD22	1:A:442:GLN:HG2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:704:PHE:HA	1:A:707:PHE:CD1	2.39	0.57
1:A:797:ASP:HA	1:A:800:LEU:HD12	1.86	0.57
1:A:2913:LYS:HG3	1:A:2914:ALA:N	2.19	0.57
1:A:4027:TRP:HB3	1:A:4031:ILE:HD11	1.85	0.57
1:B:610:ALA:HA	1:B:613:HIS:ND1	2.19	0.57
1:B:1715:GLU:HA	1:B:1718:ILE:HB	1.85	0.57
1:B:2562:LEU:O	1:B:2566:THR:HG22	2.04	0.57
1:B:3817:LEU:HA	1:B:3820:MSE:HE3	1.87	0.57
1:A:737:PRO:O	1:A:741:ILE:HG12	2.04	0.57
1:A:968:VAL:CG2	1:A:971:ARG:HD3	2.33	0.57
1:A:2157:PHE:CZ	1:A:2203:THR:HB	2.40	0.57
1:A:2196:TRP:CG	1:A:2199:LEU:HD11	2.39	0.57
1:A:2349:LEU:HD23	1:A:2364:LEU:HD22	1.86	0.57
1:A:3518:VAL:O	1:A:3522:THR:OG1	2.10	0.57
1:B:262:LEU:HD22	1:B:306:VAL:HG12	1.86	0.57
1:B:361:ILE:HD13	1:B:1858:LEU:HD23	1.86	0.57
1:B:680:ILE:HG12	1:B:701:TYR:HD2	1.69	0.57
1:B:798:GLY:HA2	1:B:873:VAL:HG11	1.87	0.57
1:B:969:LEU:O	1:B:973:ALA:HB3	2.05	0.57
1:B:1681:ASP:HB2	1:B:1717:LEU:HD22	1.86	0.57
1:B:2216:LEU:HD13	1:B:2249:LEU:HD21	1.85	0.57
1:B:2289:ASP:O	1:B:2292:CYS:N	2.24	0.57
1:B:3005:LEU:C	1:B:3254:LEU:HD21	2.28	0.57
1:A:182:GLY:O	1:A:233:ASN:ND2	2.36	0.57
1:A:257:ARG:H	1:A:258:PRO:CD	2.17	0.57
1:A:567:GLU:HB3	1:A:606:SER:HB3	1.87	0.57
1:A:585:ILE:HG22	1:A:586:GLN:H	1.68	0.57
1:A:947:GLN:C	1:A:949:PRO:HD3	2.30	0.57
1:A:1982:ILE:O	1:A:1986:ARG:HB2	2.04	0.57
1:A:3907:SER:CB	1:A:3937:VAL:H	2.17	0.57
1:B:990:GLN:HG3	1:B:2776:ARG:NH1	2.19	0.57
1:B:1216:GLY:HA3	1:B:1271:ILE:CG2	2.35	0.57
1:B:2319:ALA:O	1:B:2323:LEU:HD12	2.04	0.57
1:B:2801:ASP:HB2	1:B:2802:PRO:CD	2.35	0.57
1:B:3267:LYS:N	1:B:3271:ASP:OD2	2.37	0.57
1:B:3771:MSE:HE1	1:B:3917:ILE:HG21	1.85	0.57
1:A:368:LEU:C	1:A:372:PRO:HG2	2.30	0.57
1:A:576:VAL:HG13	1:A:601:TRP:CE3	2.40	0.57
1:A:1635:LYS:O	1:A:1639:LEU:HG	2.05	0.57
1:A:1809:ASP:O	1:A:1815:THR:HG22	2.05	0.57
1:A:1989:ASN:HB3	1:A:2040:MSE:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2555:LEU:HD13	1:A:2809:PHE:CZ	2.39	0.57
1:A:2883:SER:O	1:A:2885:GLN:N	2.38	0.57
1:A:3498:TRP:HB2	1:A:3501:HIS:HB2	1.86	0.57
1:A:3631:LYS:O	1:A:3631:LYS:HD3	2.05	0.57
1:A:3839:TYR:HE1	1:A:3867:THR:HB	1.70	0.57
1:B:527:TYR:CE1	1:B:531:PHE:HZ	2.21	0.57
1:B:752:LEU:HD13	1:B:776:TRP:CZ3	2.40	0.57
1:B:1274:ARG:O	1:B:1279:LEU:N	2.28	0.57
1:B:1350:ASN:ND2	1:B:1404:LYS:HG2	2.18	0.57
1:B:1494:GLY:HA2	1:B:1497:ARG:HG3	1.87	0.57
1:B:2194:LEU:HD13	1:B:2244:CYS:SG	2.45	0.57
1:B:2267:SER:HB2	1:B:2269:ASP:OD2	2.05	0.57
1:B:2573:PRO:C	1:B:2575:PRO:HD3	2.30	0.57
1:B:2927:ALA:CB	1:B:2930:TYR:HD2	2.18	0.57
1:A:283:SER:HA	1:A:286:LEU:HG	1.85	0.57
1:A:575:ILE:HD11	1:A:579:LEU:HD13	1.87	0.57
1:A:891:ARG:HB2	1:A:905:ILE:HA	1.86	0.57
1:A:1006:THR:O	1:A:1010:LEU:HG	2.05	0.57
1:A:1076:LEU:C	1:A:1078:ALA:H	2.12	0.57
1:A:1146:ASN:O	1:A:1150:LYS:HB3	2.05	0.57
1:A:3167:ARG:HG2	1:A:3186:ARG:CZ	2.35	0.57
1:A:3525:TYR:HH	1:A:3533:PHE:HE1	1.52	0.57
1:A:3529:ILE:HG23	1:A:3532:PRO:HD2	1.86	0.57
1:A:3980:MSE:HB2	1:A:3983:ILE:HD12	1.86	0.57
1:B:70:ARG:HD3	1:B:82:ARG:HD3	1.87	0.57
1:B:154:SER:HA	1:B:181:LEU:HD22	1.87	0.57
1:B:385:TYR:HD1	1:B:420:VAL:CG1	2.18	0.57
1:B:460:ALA:O	1:B:464:VAL:HG12	2.05	0.57
1:B:566:ASP:O	1:B:570:LYS:NZ	2.38	0.57
1:B:2002:LYS:C	1:B:2004:TYR:H	2.12	0.57
1:B:2019:SER:O	1:B:2023:SER:OG	2.10	0.57
1:A:175:TYR:CE1	1:A:200:PHE:HB3	2.39	0.56
1:A:2324:GLY:HA2	1:A:2371:PHE:HB3	1.87	0.56
1:A:2911:ARG:HG2	1:A:2914:ALA:HB3	1.87	0.56
1:A:2930:TYR:HH	1:A:3902:SER:HG	1.48	0.56
1:A:3459:ASN:O	1:A:3462:ARG:HG2	2.05	0.56
1:B:144:MSE:HE2	1:B:144:MSE:HA	1.86	0.56
1:B:647:TYR:O	1:B:650:SER:OG	2.12	0.56
1:B:909:VAL:CG1	1:B:913:ARG:HH11	2.05	0.56
1:B:1007:VAL:O	1:B:1011:GLU:HB3	2.04	0.56
1:B:1293:ALA:HA	1:B:1296:PHE:CD2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2359:LYS:HA	1:B:2362:VAL:HG13	1.87	0.56
1:B:2481:HIS:CE1	1:B:2485:ARG:NH1	2.65	0.56
1:B:3167:ARG:HG2	1:B:3186:ARG:CZ	2.35	0.56
1:B:3238:MSE:O	1:B:3242:MSE:HG3	2.05	0.56
1:B:3629:ARG:HH22	1:B:3638:LYS:CE	2.18	0.56
1:A:488:ILE:HG13	1:A:612:LEU:HD12	1.86	0.56
1:A:1042:LYS:NZ	1:A:1044:ILE:HD12	2.20	0.56
1:A:1343:GLU:O	1:A:1347:THR:CB	2.52	0.56
1:A:2193:ILE:HA	1:A:2196:TRP:CE2	2.39	0.56
1:A:3493:TRP:CZ2	1:A:3496:ILE:HG21	2.40	0.56
1:A:4005:PHE:O	1:A:4009:PRO:HD3	2.05	0.56
1:B:1475:LEU:O	1:B:1479:VAL:HG23	2.04	0.56
1:B:2452:ARG:HE	1:B:2498:ILE:HD11	1.71	0.56
1:B:2967:GLU:O	1:B:2971:GLN:NE2	2.38	0.56
1:B:3345:PRO:O	1:B:3347:CYS:N	2.34	0.56
1:B:3448:GLU:HG3	1:B:3449:LYS:HG3	1.87	0.56
1:B:3530:VAL:CG1	1:B:3702:PRO:HD3	2.31	0.56
1:A:205:LYS:HA	1:A:208:MSE:HE3	1.86	0.56
1:A:369:PHE:CE1	1:A:419:SER:HB2	2.40	0.56
1:A:611:ASN:C	1:A:614:PRO:HD2	2.30	0.56
1:A:722:LYS:HD2	1:A:730:LEU:HB2	1.88	0.56
1:A:993:HIS:HB2	1:A:1038:LYS:HG2	1.86	0.56
1:A:1491:ILE:HG22	1:A:1497:ARG:HH22	1.70	0.56
1:A:1574:ASN:CG	1:A:1582:LEU:HD21	2.30	0.56
1:A:1698:PHE:HD1	1:A:1699:PHE:N	2.03	0.56
1:A:1722:PHE:CE2	1:A:1754:GLN:HG2	2.39	0.56
1:A:2086:ASP:HB3	1:A:2090:ARG:NH2	2.20	0.56
1:A:2808:LEU:O	1:A:2812:LEU:HB2	2.06	0.56
1:A:3179:TRP:CH2	1:A:3258:LEU:HG	2.39	0.56
1:A:3425:ARG:HH12	1:A:3999:THR:HG22	1.70	0.56
1:A:3819:THR:HG1	1:A:3889:ARG:HH12	1.44	0.56
1:A:3907:SER:O	1:A:3911:ILE:HG23	2.05	0.56
1:A:4063:GLU:HA	1:A:4066:LEU:HD22	1.87	0.56
1:B:53:LEU:O	1:B:56:SER:OG	2.22	0.56
1:B:66:LEU:CD2	1:B:89:LEU:HD11	2.34	0.56
1:B:242:PRO:HD3	1:B:282:PHE:CE2	2.41	0.56
1:B:265:TYR:O	1:B:268:PRO:HD2	2.05	0.56
1:B:368:LEU:HD22	1:B:420:VAL:HG22	1.87	0.56
1:B:634:LEU:HD22	1:B:667:TYR:CD1	2.40	0.56
1:B:642:PHE:CE2	1:B:710:PHE:HE2	2.23	0.56
1:B:657:SER:O	1:B:661:PRO:HD3	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:893:SER:OG	1:B:906:PHE:HD2	1.88	0.56
1:B:1046:PRO:O	1:B:1049:GLN:HB3	2.05	0.56
1:B:1080:LEU:HB3	1:B:1111:LEU:CD2	2.36	0.56
1:B:1582:LEU:HD13	1:B:1600:MSE:SE	2.55	0.56
1:B:1987:ARG:O	1:B:1989:ASN:N	2.38	0.56
1:B:2058:ASP:C	1:B:2061:PRO:HD2	2.30	0.56
1:B:2157:PHE:CE2	1:B:2199:LEU:HD13	2.40	0.56
1:B:2420:PHE:CE1	1:B:2439:ILE:HG21	2.40	0.56
1:B:2485:ARG:NH1	1:B:2530:ARG:CZ	2.68	0.56
1:B:2575:PRO:C	1:B:2576:MSE:HG3	2.31	0.56
1:B:2945:SER:O	1:B:2949:THR:N	2.36	0.56
1:B:3420:CYS:O	1:B:3423:GLN:HB3	2.05	0.56
1:B:3791:TYR:OH	1:B:3942:PHE:HE2	1.88	0.56
1:B:4046:TYR:CE2	1:B:4049:ARG:NH2	2.74	0.56
1:A:421:LEU:C	1:A:423:TYR:H	2.13	0.56
1:A:852:ARG:NH1	1:A:3111:MSE:HE2	2.21	0.56
1:A:3762:GLN:HE22	1:A:3763:ARG:HH11	1.53	0.56
1:B:737:PRO:O	1:B:741:ILE:HG13	2.06	0.56
1:B:778:ILE:HG13	1:B:858:MSE:SE	2.56	0.56
1:B:1000:LYS:O	1:B:1002:GLU:N	2.39	0.56
1:B:3279:SER:O	1:B:3283:LEU:HB2	2.05	0.56
1:B:3397:GLN:OE1	1:B:3398:PRO:HD2	2.06	0.56
1:A:164:LYS:HB3	1:A:166:ILE:HG13	1.88	0.56
1:A:307:GLU:H	1:A:307:GLU:CD	2.12	0.56
1:A:381:VAL:HB	1:A:384:MSE:HG2	1.88	0.56
1:A:484:HIS:NE2	1:A:616:LYS:HE3	2.20	0.56
1:A:1516:GLU:O	1:A:1519:PHE:N	2.38	0.56
1:A:2080:VAL:HG12	1:A:2081:LEU:H	1.70	0.56
1:A:2236:GLU:HA	1:A:2239:LYS:HB3	1.88	0.56
1:A:2538:ARG:NH1	1:A:2565:MSE:HB3	2.20	0.56
1:A:3448:GLU:OE2	1:A:3449:LYS:HE3	2.04	0.56
1:A:3751:LEU:O	1:A:3802:LEU:HG	2.05	0.56
1:B:797:ASP:HB3	1:B:870:LEU:HB3	1.88	0.56
1:B:909:VAL:HG22	1:B:2807:GLN:HG3	1.88	0.56
1:B:926:THR:O	1:B:930:ALA:CB	2.54	0.56
1:B:931:CYS:SG	1:B:932:GLU:N	2.78	0.56
1:B:964:ARG:HH12	1:B:968:VAL:HB	1.70	0.56
1:B:1017:ILE:HG23	1:B:1018:VAL:HG13	1.87	0.56
1:B:1374:GLN:O	1:B:1378:GLU:N	2.39	0.56
1:B:2265:PRO:HD3	1:B:2309:PHE:CZ	2.41	0.56
1:B:3277:VAL:HB	1:B:3321:LEU:HD21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:168:ASP:O	1:A:170:VAL:N	2.36	0.56
1:A:361:ILE:HG12	1:A:1858:LEU:CD2	2.36	0.56
1:A:654:ILE:HG13	1:A:655:LEU:H	1.70	0.56
1:A:1032:CYS:O	1:A:1035:GLU:N	2.37	0.56
1:A:1148:ALA:O	1:A:1152:ARG:HG3	2.06	0.56
1:A:1598:ASN:O	1:A:1602:ASP:HB3	2.05	0.56
1:A:1861:SER:O	1:A:1864:ASP:HB3	2.06	0.56
1:A:1934:LEU:HD12	1:A:1937:ARG:H	1.70	0.56
1:A:2799:GLN:HB3	1:A:2808:LEU:HD11	1.86	0.56
1:A:2879:GLY:HA2	1:A:2886:GLN:CG	2.35	0.56
1:A:3960:PRO:HG2	1:A:3961:PHE:CD2	2.41	0.56
1:B:313:LEU:HD11	1:B:359:LEU:HD21	1.88	0.56
1:B:1090:ARG:NH2	1:B:1097:GLU:HA	2.21	0.56
1:B:1431:LEU:O	1:B:1434:VAL:HG12	2.05	0.56
1:B:2116:ASP:HB3	1:B:2119:PRO:HD2	1.88	0.56
1:A:381:VAL:HB	1:A:384:MSE:CG	2.36	0.56
1:A:395:MSE:SE	1:A:413:PHE:CE2	3.09	0.56
1:A:726:LEU:HA	1:A:729:CYS:HG	1.70	0.56
1:A:3590:ASN:OD1	1:A:3593:ARG:NH2	2.36	0.56
1:B:993:HIS:CD2	1:B:2776:ARG:HD3	2.39	0.56
1:B:1128:CYS:HA	1:B:1131:ILE:HG23	1.88	0.56
1:B:1587:VAL:HB	1:B:1643:MSE:HE2	1.86	0.56
1:B:2330:VAL:HG21	1:B:2338:GLU:CB	2.29	0.56
1:B:2450:GLU:O	1:B:2454:LEU:HG	2.06	0.56
1:B:2843:PHE:CE2	1:B:2853:PRO:HG3	2.41	0.56
1:B:3141:PHE:HZ	1:B:3192:LYS:HB2	1.71	0.56
1:B:3331:GLY:O	1:B:3335:ARG:HD2	2.05	0.56
1:B:3821:SER:OG	1:B:3826:ALA:O	2.22	0.56
1:A:155:LYS:O	1:A:159:GLU:HG3	2.05	0.56
1:A:294:PHE:O	1:A:298:LEU:HG	2.05	0.56
1:A:1077:GLY:HA2	1:A:1080:LEU:HD21	1.86	0.56
1:A:2073:ASP:HB3	1:A:2091:HIS:CE1	2.41	0.56
1:A:2093:CYS:HB3	1:A:2143:ARG:HH21	1.71	0.56
1:A:2552:VAL:CG2	1:A:2852:PRO:HG2	2.31	0.56
1:A:3705:TYR:OH	1:A:3765:GLU:OE1	2.20	0.56
1:B:886:TRP:CZ2	1:B:892:LEU:HD13	2.41	0.56
1:B:892:LEU:HB2	1:B:907:LEU:HD22	1.87	0.56
1:B:1069:HIS:O	1:B:3741:ARG:HD3	2.05	0.56
1:B:2810:SER:HA	1:B:2813:PHE:CD2	2.41	0.56
1:B:2858:ILE:HD12	1:B:3894:PRO:HG2	1.86	0.56
1:B:3090:TYR:HB3	1:B:3095:ASP:OD2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3103:ILE:HD13	1:B:3139:GLN:OE1	2.06	0.56
1:B:3593:ARG:HD2	1:B:3660:ASN:O	2.04	0.56
1:B:3791:TYR:HH	1:B:3942:PHE:HE2	1.53	0.56
1:B:3847:SER:HA	1:B:3857:LEU:HD13	1.86	0.56
1:B:3875:GLU:HG2	1:B:4127:TRP:HB3	1.88	0.56
1:B:3908:HIS:CD2	1:B:3912:CYS:SG	2.99	0.56
1:A:179:GLY:HA3	1:A:229:SER:HB3	1.86	0.56
1:A:855:VAL:O	1:A:859:LEU:HG	2.05	0.56
1:A:2171:LEU:HG	1:A:2177:ASN:ND2	2.21	0.56
1:A:2382:VAL:CG2	1:A:2404:ARG:HG3	2.36	0.56
1:A:3954:PRO:HG2	1:A:4027:TRP:HA	1.88	0.56
1:B:1348:LEU:HD23	1:B:1352:SER:HB3	1.87	0.56
1:B:1799:GLU:HA	1:B:1802:TYR:CB	2.36	0.56
1:B:1879:VAL:C	1:B:1882:SER:H	2.14	0.56
1:B:4125:GLU:HA	1:B:4127:TRP:HE3	1.70	0.56
1:A:131:LEU:HD21	1:A:170:VAL:HG23	1.86	0.56
1:A:543:SER:C	1:A:545:LEU:N	2.63	0.56
1:A:1575:LEU:O	1:A:1635:LYS:NZ	2.39	0.56
1:A:2430:GLU:HG3	1:A:2465:PRO:CB	2.36	0.56
1:A:2869:LEU:HB3	1:A:2893:LEU:HG	1.88	0.56
1:B:756:PHE:O	1:B:760:LEU:HG	2.06	0.56
1:B:759:GLY:HA3	1:B:773:LEU:CD1	2.36	0.56
1:B:964:ARG:NH1	1:B:968:VAL:HB	2.21	0.56
1:B:978:GLN:H	1:B:981:ARG:HD3	1.70	0.56
1:B:1090:ARG:NH2	1:B:1096:VAL:O	2.38	0.56
1:B:1131:ILE:HG12	1:B:1132:ASP:N	2.19	0.56
1:B:1909:ASN:ND2	1:B:1951:VAL:O	2.38	0.56
1:B:2886:GLN:CG	1:B:2887:PRO:HD3	2.36	0.56
1:A:759:GLY:HA3	1:A:773:LEU:HD11	1.88	0.55
1:A:2842:ARG:O	1:A:2846:THR:HG23	2.06	0.55
1:B:176:GLU:HG2	1:B:225:LYS:CD	2.36	0.55
1:B:1805:PHE:HA	1:B:1808:ASP:OD2	2.06	0.55
1:B:2065:ARG:NH1	1:B:2097:LEU:HD21	2.21	0.55
1:B:2936:TYR:CE1	1:B:2940:ARG:HB2	2.40	0.55
1:B:3781:CYS:HA	1:B:3786:LEU:HD12	1.87	0.55
1:B:3900:LEU:HD11	1:B:3934:THR:O	2.05	0.55
1:B:3962:ARG:HB2	1:B:3962:ARG:CZ	2.35	0.55
1:A:714:VAL:HG12	1:A:715:ALA:N	2.21	0.55
1:A:2186:VAL:O	1:A:2190:VAL:HG13	2.06	0.55
1:A:2447:LYS:HA	1:A:2451:LEU:HD12	1.89	0.55
1:A:2918:PRO:HA	1:A:2921:LEU:HG	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3584:LEU:O	1:A:3588:TRP:CB	2.55	0.55
1:B:287:LEU:C	1:B:291:VAL:HB	2.30	0.55
1:B:392:CYS:SG	1:B:438:LEU:HD21	2.46	0.55
1:B:411:PRO:HG3	1:B:442:GLN:HE22	1.71	0.55
1:B:913:ARG:HE	1:B:916:GLU:CD	2.14	0.55
1:B:2869:LEU:HG	1:B:2893:LEU:HD12	1.88	0.55
1:A:42:CYS:O	1:A:45:SER:OG	2.23	0.55
1:A:805:LEU:HD22	1:A:3125:ARG:NH1	2.20	0.55
1:A:989:MSE:O	1:A:992:ILE:HG13	2.06	0.55
1:A:1231:GLN:H	1:A:1232:PRO:CD	2.20	0.55
1:A:1279:LEU:HG	1:A:1292:LYS:HZ3	1.71	0.55
1:A:1952:ILE:HG12	1:A:1953:CYS:N	2.21	0.55
1:A:2837:LEU:HD12	1:A:2867:ALA:HB3	1.89	0.55
1:A:3495:PHE:HZ	1:A:3521:ILE:HG13	1.71	0.55
1:A:3499:ILE:O	1:A:3503:VAL:HG12	2.07	0.55
1:A:4031:ILE:O	1:A:4035:GLU:N	2.37	0.55
1:A:4100:GLU:HG2	1:A:4101:GLU:H	1.71	0.55
1:B:658:THR:HA	1:B:733:LEU:CD2	2.32	0.55
1:B:947:GLN:C	1:B:949:PRO:HD3	2.32	0.55
1:B:968:VAL:HG22	1:B:972:LEU:HD23	1.87	0.55
1:B:1292:LYS:O	1:B:1295:ALA:HB3	2.05	0.55
1:B:1583:MSE:HE3	1:B:1643:MSE:HB2	1.87	0.55
1:B:1726:SER:HB2	1:B:1866:GLN:HE22	1.71	0.55
1:B:1733:THR:OG1	1:B:1877:LEU:HD13	2.06	0.55
1:B:2026:SER:HB3	2:S:207:UNK:CB	2.37	0.55
1:B:2285:LEU:O	1:B:2288:TYR:N	2.39	0.55
1:B:2378:PHE:O	1:B:2382:VAL:HG22	2.06	0.55
1:A:204:LEU:HD13	1:A:223:CYS:HB2	1.87	0.55
1:A:960:GLN:HG2	1:A:961:LEU:HD22	1.89	0.55
1:A:2222:HIS:O	1:A:2226:PRO:HD2	2.07	0.55
1:A:3144:PHE:CD1	1:A:3160:LEU:HD11	2.42	0.55
1:B:760:LEU:HD13	1:B:802:THR:OG1	2.06	0.55
1:B:985:GLU:O	1:B:988:VAL:HG22	2.06	0.55
1:B:1442:GLN:HE22	1:B:1495:ASP:HB3	1.70	0.55
1:B:3106:GLY:HA2	1:B:3109:SER:HB2	1.88	0.55
1:B:3283:LEU:HG	1:B:3300:VAL:HG21	1.89	0.55
1:B:4125:GLU:HA	1:B:4127:TRP:CE3	2.41	0.55
1:A:1266:CYS:O	1:A:1269:THR:OG1	2.25	0.55
1:A:1636:ASP:O	1:A:1640:GLU:HB2	2.06	0.55
1:A:1641:THR:O	1:A:1645:VAL:HG23	2.07	0.55
1:A:1897:ASN:HB3	1:A:1901:HIS:HE1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2210:VAL:HG13	1:A:2211:LEU:H	1.71	0.55
1:A:2236:GLU:HG2	2:K:110:UNK:CB	2.36	0.55
1:A:2549:LYS:HZ2	1:A:2554:PHE:CA	2.07	0.55
1:A:2575:PRO:HD2	1:A:2785:ILE:HD11	1.87	0.55
1:A:2890:ILE:HD12	1:A:2918:PRO:HB3	1.87	0.55
1:A:3994:ASP:OD2	1:A:3997:LEU:HD13	2.06	0.55
1:B:2375:ALA:O	1:B:2379:MSE:HB2	2.04	0.55
1:B:2542:LEU:O	1:B:2545:LEU:N	2.38	0.55
1:B:2957:LEU:HB3	1:B:3989:ARG:NH2	2.22	0.55
1:B:3282:ARG:HB2	1:B:3282:ARG:HH11	1.70	0.55
1:B:4066:LEU:HD11	1:B:4078:VAL:HG11	1.88	0.55
1:A:543:SER:O	1:A:545:LEU:N	2.34	0.55
1:A:793:LEU:HA	1:A:796:LEU:CG	2.33	0.55
1:A:1567:ILE:HG12	1:A:1571:LEU:HD11	1.87	0.55
1:A:1815:THR:C	1:A:1816:ARG:HE	2.14	0.55
1:A:1894:SER:C	1:A:1896:ILE:N	2.64	0.55
1:A:2145:PHE:HD1	1:A:2188:GLU:HG2	1.71	0.55
1:A:2556:SER:O	1:A:2559:THR:OG1	2.25	0.55
1:A:3722:PHE:CD1	1:A:3740:ILE:HA	2.41	0.55
1:A:3981:TYR:OH	1:A:4101:GLU:HB3	2.07	0.55
1:B:1678:LEU:O	1:B:1682:THR:HG22	2.07	0.55
1:B:1976:LEU:HD13	1:B:2031:LEU:HD23	1.89	0.55
1:B:2031:LEU:C	1:B:2033:ASP:N	2.64	0.55
1:B:2099:ALA:O	1:B:2102:LYS:HB2	2.06	0.55
1:B:2239:LYS:HG3	1:B:2279:ILE:HD12	1.89	0.55
1:B:2289:ASP:O	1:B:2291:GLN:N	2.39	0.55
1:A:1069:HIS:O	1:A:3741:ARG:HD3	2.07	0.55
1:A:1392:MSE:HA	1:A:1395:LEU:HB3	1.89	0.55
1:A:1431:LEU:O	1:A:1434:VAL:HG12	2.07	0.55
1:A:1882:SER:C	1:A:1885:PRO:HD2	2.32	0.55
1:A:1946:ASN:HA	1:A:1949:ILE:HG22	1.89	0.55
1:A:1970:LYS:HZ1	1:A:2017:GLY:CA	2.19	0.55
1:A:1982:ILE:HG23	1:A:1986:ARG:HE	1.71	0.55
1:A:2884:LEU:C	1:A:2887:PRO:HD2	2.32	0.55
1:A:3499:ILE:CG2	1:A:3535:ILE:HG21	2.36	0.55
1:B:279:ALA:HA	1:B:282:PHE:CE2	2.41	0.55
1:B:629:PHE:CZ	1:B:666:PHE:CD1	2.92	0.55
1:B:706:LEU:HB3	1:B:710:PHE:CZ	2.42	0.55
1:B:776:TRP:CE2	1:B:780:ILE:HD12	2.41	0.55
1:B:1011:GLU:OE2	1:B:1062:ARG:CZ	2.55	0.55
1:B:1102:GLU:HA	1:B:1150:LYS:NZ	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2254:ARG:HB2	1:B:2295:GLN:OE1	2.06	0.55
1:B:2895:GLU:O	1:B:2899:ARG:NH2	2.40	0.55
1:B:3578:LEU:HB3	1:B:3579:SER:HA	1.89	0.55
1:A:446:PHE:HD1	1:A:446:PHE:N	2.03	0.55
1:A:446:PHE:CZ	1:A:530:LEU:HB3	2.41	0.55
1:A:743:LEU:HD21	1:A:784:VAL:HG21	1.89	0.55
1:A:1016:GLY:O	1:A:1019:ASP:HB2	2.05	0.55
1:A:1083:ASN:HD21	1:A:1104:LEU:HD21	1.71	0.55
1:A:1400:VAL:O	1:A:1404:LYS:CB	2.55	0.55
1:A:1606:ARG:O	1:A:1806:ARG:NH1	2.39	0.55
1:A:1880:MSE:O	1:A:1883:ARG:N	2.39	0.55
1:A:1918:LEU:HD11	1:A:1957:ASN:HB3	1.89	0.55
1:A:2098:THR:HG22	1:A:2146:LEU:HD13	1.89	0.55
1:A:2410:GLU:HA	1:A:2413:PHE:CZ	2.41	0.55
1:A:2957:LEU:HD11	1:A:3985:VAL:HG11	1.87	0.55
1:A:3424:LEU:HD13	1:A:3472:ILE:HD11	1.87	0.55
1:A:3472:ILE:HG22	1:A:3473:GLU:H	1.71	0.55
1:A:3676:PRO:HG2	1:A:3677:PRO:HD3	1.89	0.55
1:A:3722:PHE:CE1	1:A:3740:ILE:HG12	2.34	0.55
1:B:568:PHE:O	1:B:571:SER:N	2.39	0.55
1:B:612:LEU:CD2	1:B:1800:SER:HB3	2.36	0.55
1:B:612:LEU:HD12	1:B:613:HIS:N	2.22	0.55
1:B:1424:THR:OG1	1:B:1425:ALA:N	2.40	0.55
1:B:1867:ILE:HG23	1:B:1871:MSE:HE3	1.89	0.55
1:B:2157:PHE:CE1	1:B:2203:THR:HB	2.42	0.55
1:B:2929:LEU:HD22	1:B:3983:ILE:HG12	1.89	0.55
1:B:3592:VAL:HG22	1:B:3609:MSE:SE	2.57	0.55
1:B:3964:THR:HB	1:B:4128:MSE:O	2.06	0.55
1:A:892:LEU:HD11	1:A:958:MSE:HB2	1.87	0.55
1:A:1335:CYS:HA	1:A:1338:VAL:HG12	1.89	0.55
1:A:1423:ILE:O	1:A:1427:SER:OG	2.20	0.55
1:A:1573:LYS:O	1:A:1576:ASP:HB3	2.07	0.55
1:A:1909:ASN:O	1:A:1912:THR:HG23	2.07	0.55
1:A:2338:GLU:O	1:A:2338:GLU:HG2	2.03	0.55
1:A:2789:SER:O	1:A:2793:PRO:HD3	2.07	0.55
1:A:2878:ALA:O	1:A:2886:GLN:HB3	2.07	0.55
1:A:3487:ILE:HA	1:A:3490:VAL:HG22	1.89	0.55
1:A:3901:ARG:HG2	1:A:3901:ARG:HH11	1.70	0.55
1:A:3981:TYR:HE1	1:A:4105:LYS:N	2.05	0.55
1:B:134:LEU:O	1:B:137:THR:OG1	2.23	0.55
1:B:734:LEU:C	1:B:737:PRO:HD2	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1087:ARG:HD3	1:B:1134:LEU:HD22	1.89	0.55
1:B:1167:ASP:O	1:B:1171:TRP:HB2	2.06	0.55
1:B:1561:SER:HA	1:B:1564:SER:HB2	1.89	0.55
1:B:1972:GLU:CD	1:B:1987:ARG:HH12	2.14	0.55
1:B:2088:LEU:HD21	1:B:2095:ALA:HB2	1.89	0.55
1:B:2190:VAL:HA	1:B:2193:ILE:HG22	1.88	0.55
1:B:3435:ASP:O	1:B:3439:LEU:HB2	2.06	0.55
1:A:385:TYR:OH	1:A:424:LEU:HD21	2.07	0.55
1:A:508:HIS:CD2	1:A:725:LEU:HD22	2.42	0.55
1:A:1217:VAL:O	1:A:1221:ILE:HG13	2.07	0.55
1:A:1344:PHE:CE1	1:A:1348:LEU:HG	2.42	0.55
1:A:1729:PHE:HZ	1:A:1870:LYS:HG3	1.67	0.55
1:A:2046:SER:HB2	1:A:2096:PRO:HG2	1.89	0.55
1:A:2074:PRO:O	1:A:2076:VAL:N	2.40	0.55
1:A:2167:PRO:CA	1:A:2171:LEU:HB2	2.36	0.55
1:A:2951:GLN:OE1	1:A:2972:TYR:OH	2.18	0.55
1:A:3614:TYR:O	1:A:3618:GLY:N	2.29	0.55
1:A:3778:ASP:OD2	1:A:3781:CYS:N	2.40	0.55
1:A:3816:LEU:O	1:A:3820:MSE:HB3	2.07	0.55
1:A:4070:LYS:H	1:A:4074:PHE:HD2	1.55	0.55
1:B:174:VAL:HG12	1:B:178:LEU:HD11	1.87	0.55
1:B:431:TYR:HA	1:B:434:VAL:CG1	2.36	0.55
1:B:756:PHE:O	1:B:759:GLY:N	2.40	0.55
1:B:1346:THR:HG21	1:B:1401:ASN:CB	2.35	0.55
1:B:2387:PRO:HA	1:B:2390:HIS:HB3	1.88	0.55
1:B:3631:LYS:HA	1:B:3634:GLN:CB	2.37	0.55
1:B:3806:LEU:O	1:B:3809:THR:HG22	2.07	0.55
1:B:3915:HIS:O	1:B:3918:LEU:N	2.40	0.55
1:A:86:LEU:HD13	1:A:134:LEU:HD21	1.88	0.54
1:A:220:LEU:O	1:A:224:LEU:HG	2.06	0.54
1:A:752:LEU:HA	1:A:755:ALA:HB3	1.88	0.54
1:A:1007:VAL:O	1:A:1011:GLU:HB3	2.07	0.54
1:A:1080:LEU:HD22	1:A:1127:CYS:HB2	1.87	0.54
1:A:1253:THR:HA	1:A:1257:LEU:HD12	1.89	0.54
1:A:2145:PHE:CD1	1:A:2188:GLU:HG2	2.41	0.54
1:A:3699:LEU:HG	1:A:3701:ILE:HG12	1.88	0.54
1:B:114:VAL:HG11	1:B:130:LEU:HD11	1.90	0.54
1:B:170:VAL:HG23	1:B:173:LYS:NZ	2.21	0.54
1:B:358:GLU:N	1:B:361:ILE:HG23	2.22	0.54
1:B:454:GLN:HG3	1:B:533:HIS:CE1	2.40	0.54
1:B:784:VAL:O	1:B:787:PRO:HD2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1927:MSE:HG2	1:B:1941:HIS:CD2	2.42	0.54
1:B:2213:ASN:HB2	1:B:2250:SER:HB2	1.90	0.54
1:B:2793:PRO:O	1:B:2797:VAL:HG22	2.05	0.54
1:B:2944:THR:HG21	1:B:2983:ASP:OD2	2.07	0.54
1:B:3872:ARG:NH1	1:B:3965:ARG:NH1	2.54	0.54
1:A:1008:ALA:HA	1:A:1011:GLU:OE1	2.07	0.54
1:A:1240:THR:HA	1:A:1243:TYR:HD2	1.72	0.54
1:A:3122:HIS:O	1:A:3125:ARG:N	2.40	0.54
1:B:197:PHE:CE2	1:B:230:LEU:HD22	2.42	0.54
1:B:356:ASN:OD1	1:B:1859:ASN:HB2	2.06	0.54
1:B:1276:VAL:HG13	1:B:1358:LEU:HD12	1.88	0.54
1:B:1378:GLU:HB3	1:B:1379:PRO:HD3	1.89	0.54
1:B:1636:ASP:O	1:B:1640:GLU:HB2	2.07	0.54
1:B:1682:THR:HB	1:B:1724:MSE:SE	2.57	0.54
1:B:1797:LEU:HD13	1:B:1805:PHE:CE2	2.41	0.54
1:B:1882:SER:C	1:B:1885:PRO:HD2	2.33	0.54
1:B:2224:PHE:HB3	1:B:2272:VAL:CG1	2.38	0.54
1:B:2304:VAL:O	1:B:2348:GLN:NE2	2.40	0.54
1:B:2352:HIS:CG	1:B:2364:LEU:HD21	2.42	0.54
1:B:3493:TRP:CE3	1:B:3713:PRO:HB3	2.39	0.54
1:B:3507:ASP:CG	1:B:3540:TYR:HA	2.32	0.54
1:B:3704:GLN:NE2	1:B:3796:MSE:SE	2.90	0.54
1:B:3876:SER:O	1:B:3879:PRO:HD2	2.07	0.54
1:A:245:SER:HB2	1:A:272:LEU:HD11	1.89	0.54
1:A:887:ASP:O	1:A:3889:ARG:HG2	2.07	0.54
1:A:1259:LEU:HG	1:A:1337:VAL:HG22	1.90	0.54
1:A:1675:TYR:CZ	1:A:1679:LEU:HD11	2.42	0.54
1:A:2040:MSE:HA	1:A:2043:PHE:HD1	1.73	0.54
1:A:2056:SER:HA	1:A:2061:PRO:HG3	1.88	0.54
1:A:2065:ARG:HB3	1:A:2125:TRP:CD1	2.42	0.54
1:A:2796:ALA:O	1:A:2800:ARG:HG3	2.06	0.54
1:A:2870:SER:O	1:A:2872:ASP:N	2.41	0.54
1:A:3273:LEU:HB3	1:A:3321:LEU:CD2	2.37	0.54
1:A:3413:TYR:HD2	1:A:3453:ALA:HB2	1.72	0.54
1:A:3967:PHE:CD1	1:A:3968:ILE:N	2.75	0.54
1:B:2636:UNK:O	1:B:2640:UNK:CB	2.55	0.54
1:B:2801:ASP:HB2	1:B:2802:PRO:HD3	1.88	0.54
1:B:2894:GLU:HA	1:B:2898:LEU:HB2	1.88	0.54
1:B:3464:LYS:O	1:B:3468:LEU:HG	2.08	0.54
1:B:3864:ARG:HD2	1:B:4115:ASN:OD1	2.08	0.54
1:A:15:LEU:HD23	1:A:2359:LYS:NZ	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1018:VAL:HB	1:A:1074:LYS:CA	2.37	0.54
1:A:1064:TYR:CD1	1:A:1106:ILE:HD11	2.42	0.54
1:A:1296:PHE:O	1:A:1299:GLU:N	2.39	0.54
1:A:1551:ILE:HA	1:A:1554:SER:HB3	1.89	0.54
1:A:2164:TRP:HH2	1:A:2190:VAL:HG12	1.70	0.54
1:A:2923:TRP:CD1	1:A:2931:ARG:HD3	2.42	0.54
1:A:3294:SER:HB3	1:A:3341:LEU:HD22	1.90	0.54
1:B:409:GLN:HG3	1:B:413:PHE:CZ	2.41	0.54
1:B:514:VAL:HA	1:B:604:PRO:HG3	1.90	0.54
1:B:575:ILE:N	1:B:605:THR:OG1	2.40	0.54
1:B:963:LYS:HB3	1:B:1009:LEU:HD11	1.88	0.54
1:B:1216:GLY:HA3	1:B:1271:ILE:HG22	1.88	0.54
1:B:1927:MSE:C	1:B:1929:GLY:H	2.15	0.54
1:B:2462:VAL:HG11	1:B:2473:MSE:SE	2.58	0.54
1:B:2474:TYR:CE1	1:B:2509:GLY:HA3	2.42	0.54
1:B:3472:ILE:HG22	1:B:3473:GLU:H	1.73	0.54
1:A:401:ASP:HB2	1:A:1763:THR:OG1	2.07	0.54
1:A:759:GLY:HA3	1:A:773:LEU:CD1	2.38	0.54
1:A:1111:LEU:HA	1:A:1114:ALA:HB3	1.90	0.54
1:A:1886:LYS:HZ2	1:A:1924:THR:CB	2.16	0.54
1:A:2538:ARG:HH11	1:A:2565:MSE:CG	2.21	0.54
1:A:3008:TRP:H	1:A:3050:LYS:HG2	1.73	0.54
1:A:3114:TYR:OH	1:A:3128:LYS:HB3	2.07	0.54
1:B:65:LEU:HD23	1:B:68:PHE:CE1	2.43	0.54
1:B:659:ARG:HH22	1:B:662:LEU:CB	2.20	0.54
1:B:936:SER:HB3	1:B:2791:ILE:CG1	2.35	0.54
1:B:1019:ASP:HB3	1:B:1020:PRO:HD2	1.89	0.54
1:B:1639:LEU:HD12	1:B:1640:GLU:N	2.23	0.54
1:B:3121:LEU:HB2	1:B:3124:SER:OG	2.08	0.54
1:B:3864:ARG:NH2	1:B:4119:ARG:HH21	2.05	0.54
1:B:4027:TRP:HB3	1:B:4031:ILE:HD11	1.90	0.54
1:A:138:PHE:CD2	1:A:177:LEU:HD22	2.42	0.54
1:A:269:SER:HB2	1:A:315:ALA:HB2	1.90	0.54
1:A:1424:THR:O	1:A:1426:GLN:N	2.41	0.54
1:A:1810:PRO:O	1:A:1811:ARG:HG2	2.08	0.54
1:B:633:ILE:O	1:B:637:LYS:HG2	2.08	0.54
1:B:897:PRO:HG2	1:B:898:PHE:CE1	2.43	0.54
1:B:1693:VAL:O	1:B:1697:PRO:HD3	2.07	0.54
1:B:2039:GLU:HG2	1:B:2077:HIS:NE2	2.22	0.54
1:B:2220:MSE:SE	1:B:2276:LEU:HD11	2.58	0.54
1:B:2363:CYS:O	1:B:2367:VAL:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3907:SER:O	1:B:3911:ILE:HG23	2.08	0.54
1:A:69:VAL:HG12	1:A:70:ARG:N	2.22	0.54
1:A:270:ALA:O	1:A:274:LEU:HG	2.08	0.54
1:A:1103:ALA:O	1:A:1106:ILE:HG12	2.07	0.54
1:A:2030:TYR:CD1	1:A:2031:LEU:HG	2.40	0.54
1:A:2144:LEU:C	1:A:2148:LYS:HE3	2.33	0.54
1:A:2837:LEU:HD13	1:A:2868:LEU:N	2.23	0.54
1:A:3390:GLN:O	1:A:3394:GLU:HB2	2.08	0.54
1:A:3464:LYS:HE3	1:A:3468:LEU:HD21	1.88	0.54
1:A:3486:GLU:HG3	1:A:3487:ILE:N	2.22	0.54
1:A:3701:ILE:O	1:A:3701:ILE:HG13	2.08	0.54
1:A:3812:LEU:HG	1:A:3813:LYS:N	2.22	0.54
1:A:3963:LEU:HG	1:A:3967:PHE:HE1	1.71	0.54
1:A:4012:ASP:C	1:A:4016:PHE:HB2	2.33	0.54
1:B:916:GLU:CB	1:B:930:ALA:HB1	2.36	0.54
1:B:2097:LEU:HA	1:B:2100:LEU:HB3	1.89	0.54
1:B:2224:PHE:HZ	1:B:2276:LEU:HD22	1.70	0.54
1:B:2386:LEU:HD11	1:B:2400:VAL:HG12	1.88	0.54
1:B:2543:ASN:HA	1:B:2546:TYR:HD2	1.72	0.54
1:B:3840:LYS:CE	1:B:4122:GLU:HB3	2.36	0.54
1:B:3858:MSE:HG2	1:B:4119:ARG:HD3	1.89	0.54
1:A:83:GLU:O	1:A:87:LYS:HG3	2.08	0.54
1:A:966:PHE:CZ	1:A:988:VAL:HG12	2.43	0.54
1:A:971:ARG:NE	1:A:1024:THR:OG1	2.40	0.54
1:A:1087:ARG:CD	1:A:1134:LEU:HD22	2.36	0.54
1:A:1406:LEU:HB3	1:A:1415:LEU:HD21	1.90	0.54
1:A:1609:ALA:HB2	1:A:1633:TRP:CZ2	2.42	0.54
1:A:2085:MSE:O	1:A:2088:LEU:HB3	2.08	0.54
1:A:2416:LYS:HD3	1:A:2442:MSE:SE	2.58	0.54
1:A:2935:GLU:HG3	1:A:2936:TYR:H	1.73	0.54
1:B:789:TYR:HD2	1:B:865:GLN:HG3	1.71	0.54
1:B:855:VAL:O	1:B:859:LEU:HG	2.07	0.54
1:B:2163:HIS:O	1:B:2167:PRO:HD3	2.07	0.54
1:B:2312:TYR:CE2	1:B:2313:LYS:HG2	2.43	0.54
1:B:2352:HIS:HB2	1:B:2364:LEU:HD11	1.89	0.54
1:B:2820:MSE:SE	1:B:2833:THR:HG21	2.58	0.54
1:B:3568:ILE:HD11	1:B:3691:LYS:HD2	1.90	0.54
1:A:114:VAL:CG1	1:A:130:LEU:HD11	2.38	0.54
1:A:262:LEU:HD13	1:A:306:VAL:HG12	1.88	0.54
1:A:1907:GLU:OE2	1:A:1911:LEU:HD11	2.08	0.54
1:A:2177:ASN:HD22	1:A:2182:ILE:CG2	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2304:VAL:HG11	1:A:2344:LEU:HB3	1.90	0.54
1:A:2412:TYR:CE1	1:A:2415:LEU:HB3	2.43	0.54
1:A:3039:THR:O	1:A:3042:PRO:HD2	2.08	0.54
1:A:3728:VAL:HG22	1:A:3736:LYS:HG3	1.89	0.54
1:A:3762:GLN:HE22	1:A:3763:ARG:NH1	2.05	0.54
1:B:39:GLY:HA2	1:B:92:PHE:HZ	1.71	0.54
1:B:87:LYS:HG2	1:B:133:LYS:HG3	1.89	0.54
1:B:276:ALA:HA	1:B:280:SER:OG	2.08	0.54
1:B:278:HIS:O	1:B:281:GLN:HB3	2.08	0.54
1:B:620:PHE:CE1	1:B:623:PHE:HD2	2.26	0.54
1:B:718:MSE:SE	1:B:731:THR:HG22	2.58	0.54
1:B:981:ARG:HA	1:B:984:TYR:HD2	1.71	0.54
1:B:1044:ILE:O	1:B:1045:THR:OG1	2.25	0.54
1:B:1862:THR:O	1:B:1865:THR:HG22	2.07	0.54
1:B:2049:VAL:HG11	1:B:2100:LEU:HD12	1.90	0.54
1:B:2238:ILE:O	1:B:2242:VAL:HG23	2.08	0.54
1:B:2806:LYS:HA	1:B:2809:PHE:CD2	2.43	0.54
1:B:2990:GLU:O	1:B:2994:TRP:HB2	2.07	0.54
1:B:3048:LYS:NZ	1:B:3064:PHE:CE2	2.74	0.54
1:B:3240:MSE:O	1:B:3242:MSE:N	2.41	0.54
1:B:3576:ASP:C	1:B:3578:LEU:HG	2.33	0.54
1:A:508:HIS:HB3	1:A:725:LEU:HB3	1.90	0.54
1:A:1080:LEU:HD13	1:A:1127:CYS:CB	2.38	0.54
1:A:1087:ARG:HD3	1:A:1134:LEU:HB3	1.89	0.54
1:A:1166:LEU:HB3	1:A:1170:LYS:NZ	2.23	0.54
1:A:1582:LEU:O	1:A:1585:SER:HB3	2.08	0.54
1:A:1718:ILE:HG23	1:A:1750:LEU:HD11	1.89	0.54
1:A:2039:GLU:HG2	1:A:2077:HIS:NE2	2.23	0.54
1:A:2200:ALA:HA	1:A:2203:THR:HG22	1.89	0.54
1:A:2855:VAL:O	1:A:2859:GLN:HB2	2.08	0.54
1:A:2891:ARG:HH22	1:A:3884:LYS:HE2	1.73	0.54
1:A:3128:LYS:C	1:A:3130:GLN:H	2.15	0.54
1:A:3518:VAL:HA	1:A:3521:ILE:HG22	1.90	0.54
1:A:3857:LEU:HA	1:A:3859:TYR:CE2	2.43	0.54
1:B:629:PHE:CZ	1:B:666:PHE:O	2.60	0.54
1:B:2798:ALA:HB3	1:B:2799:GLN:NE2	2.23	0.54
1:B:3578:LEU:HD22	1:B:3683:CYS:SG	2.47	0.54
1:A:175:TYR:HB2	1:A:222:GLY:C	2.33	0.53
1:A:414:LEU:O	1:A:414:LEU:HG	2.01	0.53
1:A:548:GLU:O	1:A:552:SER:OG	2.21	0.53
1:A:1008:ALA:O	1:A:1011:GLU:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1145:LEU:HD22	1:A:1149:LYS:HZ3	1.73	0.53
1:A:1175:HIS:O	1:A:1179:PRO:HD3	2.08	0.53
1:A:1804:MSE:O	1:A:1808:ASP:HB3	2.08	0.53
1:A:1939:LEU:CD1	1:A:1986:ARG:HG2	2.38	0.53
1:A:2148:LYS:HD2	1:A:2188:GLU:OE2	2.08	0.53
1:A:3122:HIS:HB3	1:A:3126:LEU:HD13	1.89	0.53
1:A:3502:MSE:HE3	1:A:3517:SER:HB3	1.89	0.53
1:A:3525:TYR:CE1	1:A:3561:LYS:HD2	2.43	0.53
1:A:3974:MSE:HA	1:A:3975:LYS:CB	2.38	0.53
1:B:1348:LEU:HD23	1:B:1353:PRO:HD3	1.90	0.53
1:B:1733:THR:HB	1:B:1877:LEU:HD22	1.90	0.53
1:B:2813:PHE:HA	1:B:2816:ILE:HG22	1.89	0.53
1:B:3047:SER:HB2	1:B:3050:LYS:HE2	1.90	0.53
1:B:3690:PHE:CZ	1:B:3722:PHE:HD2	2.26	0.53
1:B:3917:ILE:O	1:B:4048:LYS:CE	2.56	0.53
1:B:3965:ARG:HG3	1:B:3969:ASN:OD1	2.09	0.53
2:S:217:UNK:O	2:S:220:MSE:HG2	2.08	0.53
1:A:1817:GLN:HA	1:A:1820:VAL:HG22	1.90	0.53
1:A:3789:ARG:HD3	1:A:3938:ILE:HG21	1.89	0.53
1:A:3794:VAL:HG11	1:A:3796:MSE:HE3	1.90	0.53
1:B:294:PHE:O	1:B:297:LEU:HG	2.09	0.53
1:B:356:ASN:ND2	1:B:1859:ASN:H	2.07	0.53
1:B:629:PHE:HZ	1:B:666:PHE:O	1.91	0.53
1:B:1575:LEU:HD13	1:B:1604:SER:HB3	1.90	0.53
1:B:1648:LEU:HD22	1:B:1684:LEU:HD22	1.89	0.53
1:B:2049:VAL:HA	1:B:2052:TYR:HD2	1.71	0.53
1:B:2870:SER:HA	1:B:2897:LEU:HD22	1.89	0.53
1:B:3469:LEU:O	1:B:3474:ARG:HG2	2.08	0.53
1:B:3927:ASN:O	1:B:3940:ILE:HG22	2.08	0.53
1:A:368:LEU:HD23	1:A:372:PRO:CG	2.37	0.53
1:A:489:ARG:HH22	1:A:492:SER:HB3	1.72	0.53
1:A:661:PRO:HG2	1:A:733:LEU:CA	2.38	0.53
1:A:926:THR:O	1:A:930:ALA:CB	2.56	0.53
1:A:1046:PRO:O	1:A:1049:GLN:HB3	2.08	0.53
1:A:2078:ASP:HB3	1:A:2135:ASN:ND2	2.23	0.53
1:A:2168:LEU:HD13	1:A:2214:ARG:CZ	2.37	0.53
1:A:2412:TYR:HD2	1:A:2416:LYS:HZ1	1.56	0.53
1:B:641:PHE:CE1	1:B:663:ILE:HG21	2.42	0.53
1:B:757:LYS:HA	1:B:760:LEU:HD12	1.90	0.53
1:B:1590:THR:O	1:B:1592:MSE:N	2.41	0.53
1:B:2009:LYS:NZ	1:B:2011:ALA:HA	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2196:TRP:CE2	1:B:2199:LEU:HD11	2.44	0.53
1:B:3585:PHE:HD1	1:B:3613:MSE:HE1	1.73	0.53
1:B:3790:THR:HG22	1:B:3791:TYR:H	1.73	0.53
1:A:47:SER:H	1:A:51:LEU:HD12	1.74	0.53
1:A:306:VAL:O	1:A:309:LYS:HG3	2.08	0.53
1:A:361:ILE:HG13	1:A:362:ALA:N	2.23	0.53
1:A:535:LEU:HB3	1:A:626:LEU:HD11	1.91	0.53
1:A:1032:CYS:HB3	1:A:1036:PHE:CZ	2.44	0.53
1:A:1083:ASN:HB2	1:A:1107:TYR:HE2	1.74	0.53
1:A:1111:LEU:HD23	1:A:1128:CYS:SG	2.48	0.53
1:A:3141:PHE:HZ	1:A:3192:LYS:HB2	1.73	0.53
1:A:3300:VAL:HG23	1:A:3328:ILE:HD13	1.89	0.53
1:A:3462:ARG:HE	1:A:3501:HIS:CD2	2.27	0.53
1:A:3944:HIS:NE2	1:A:4020:MSE:HE3	2.23	0.53
1:A:4103:GLN:H	1:A:4103:GLN:CD	2.17	0.53
1:B:969:LEU:O	1:B:973:ALA:HB2	2.07	0.53
1:B:977:ASP:O	1:B:980:THR:HB	2.09	0.53
1:B:1267:TYR:OH	1:B:1340:ARG:NH2	2.41	0.53
1:B:1275:THR:HA	1:B:1279:LEU:HB2	1.90	0.53
1:B:1708:GLU:HB2	1:B:1709:GLU:CD	2.33	0.53
1:B:1941:HIS:ND1	1:B:1941:HIS:O	2.40	0.53
1:B:2300:PHE:CE2	1:B:2341:LEU:HB2	2.44	0.53
1:B:3311:ASN:O	1:B:3313:SER:N	2.39	0.53
1:B:3458:SER:OG	1:B:3494:GLN:NE2	2.42	0.53
1:B:3530:VAL:HA	1:B:3533:PHE:CD2	2.43	0.53
1:B:3629:ARG:NH2	1:B:3638:LYS:NZ	2.53	0.53
1:B:3699:LEU:HG	1:B:3701:ILE:HG23	1.90	0.53
1:A:276:ALA:HA	1:A:280:SER:OG	2.09	0.53
1:A:567:GLU:HB3	1:A:606:SER:CB	2.39	0.53
1:A:1221:ILE:HG12	1:A:1274:ARG:NH1	2.24	0.53
1:A:1288:SER:O	1:A:1290:LEU:N	2.42	0.53
1:A:1306:ILE:HG22	1:A:1381:SER:HB3	1.90	0.53
1:A:1758:LEU:HD13	1:A:1860:GLU:HG2	1.89	0.53
1:A:2094:MSE:HE1	1:A:2143:ARG:CA	2.38	0.53
1:A:2352:HIS:CG	1:A:2364:LEU:HD21	2.44	0.53
1:A:3529:ILE:HG13	1:A:3532:PRO:HG2	1.89	0.53
1:B:397:LEU:HD21	1:B:1813:SER:HB3	1.90	0.53
1:B:430:VAL:HG21	1:B:1682:THR:HG23	1.90	0.53
1:B:611:ASN:C	1:B:614:PRO:HD2	2.33	0.53
1:B:1015:ASP:HA	1:B:1018:VAL:HG22	1.90	0.53
1:B:1076:LEU:C	1:B:1078:ALA:H	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3259:LEU:O	1:B:3263:HIS:CB	2.53	0.53
1:B:3605:ASN:O	1:B:3609:MSE:HG3	2.07	0.53
1:A:364:ARG:O	1:A:368:LEU:N	2.24	0.53
1:A:965:THR:HA	1:A:968:VAL:HG12	1.90	0.53
1:A:1348:LEU:O	1:A:1352:SER:N	2.35	0.53
1:A:2129:LEU:HB3	1:A:2156:VAL:HG13	1.90	0.53
1:A:3008:TRP:CD1	1:A:3009:LYS:H	2.26	0.53
1:A:3486:GLU:O	1:A:3489:SER:N	2.41	0.53
1:A:3617:LEU:HD13	1:A:3644:PHE:HD2	1.74	0.53
1:B:110:THR:O	1:B:114:VAL:HG23	2.07	0.53
1:B:884:VAL:HG11	1:B:3889:ARG:O	2.08	0.53
1:B:2280:VAL:HG13	1:B:2287:PRO:HB2	1.91	0.53
1:B:3530:VAL:HG11	1:B:3700:GLU:O	2.09	0.53
1:B:4017:GLU:OE1	1:B:4017:GLU:N	2.39	0.53
1:A:134:LEU:O	1:A:137:THR:OG1	2.25	0.53
1:A:361:ILE:HD11	1:A:413:PHE:CZ	2.44	0.53
1:A:947:GLN:HB2	1:A:949:PRO:HD3	1.89	0.53
1:A:1004:GLN:O	1:A:1008:ALA:CB	2.56	0.53
1:A:1513:GLY:O	1:A:1517:LEU:HG	2.07	0.53
1:A:1567:ILE:O	1:A:1571:LEU:HG	2.09	0.53
1:A:1976:LEU:HD22	1:A:1981:LEU:HD22	1.91	0.53
1:A:2573:PRO:C	1:A:2575:PRO:HD3	2.32	0.53
1:A:3464:LYS:HG3	1:A:3468:LEU:HD11	1.91	0.53
1:A:3493:TRP:HB2	1:A:3713:PRO:HG3	1.91	0.53
1:A:3818:ASN:O	1:A:3821:SER:HB3	2.08	0.53
1:B:75:SER:O	1:B:77:GLU:N	2.41	0.53
1:B:150:GLY:HA2	1:B:153:PHE:CE2	2.43	0.53
1:B:1256:TRP:O	1:B:1260:LEU:HG	2.08	0.53
1:B:1914:THR:HG22	1:B:1955:VAL:HG21	1.89	0.53
1:B:1988:TYR:OH	1:B:2044:ASP:OD2	2.24	0.53
1:B:2349:LEU:HD23	1:B:2364:LEU:HD22	1.90	0.53
1:B:2798:ALA:O	1:B:2802:PRO:HD2	2.09	0.53
1:B:2890:ILE:HD12	1:B:2918:PRO:HB3	1.90	0.53
1:B:3459:ASN:ND2	1:B:3710:LYS:NZ	2.57	0.53
1:B:3588:TRP:O	1:B:3592:VAL:HG23	2.09	0.53
1:A:313:LEU:O	1:A:316:LEU:N	2.42	0.53
1:A:321:LYS:O	1:A:325:ASN:ND2	2.33	0.53
1:A:361:ILE:HG12	1:A:1858:LEU:HD23	1.91	0.53
1:A:934:LEU:HD23	1:A:934:LEU:C	2.33	0.53
1:A:995:PHE:CE1	1:A:1003:SER:HA	2.43	0.53
1:A:995:PHE:HZ	1:A:1006:THR:HB	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1067:ALA:HB1	1:A:1111:LEU:CD1	2.38	0.53
1:A:2094:MSE:HA	1:A:2094:MSE:HE3	1.90	0.53
1:A:3280:TYR:O	1:A:3283:LEU:HB3	2.09	0.53
1:A:3620:PRO:HG2	1:A:3641:ASP:OD2	2.08	0.53
1:A:4002:MSE:SE	1:A:4048:LYS:HE3	2.58	0.53
1:B:179:GLY:O	1:B:183:GLU:HG3	2.08	0.53
1:B:808:GLU:OE1	1:B:3114:TYR:HB3	2.08	0.53
1:B:1158:PRO:HB2	1:B:1159:PRO:HD3	1.91	0.53
1:B:1685:ASP:OD1	1:B:1717:LEU:HD13	2.09	0.53
1:B:2502:ALA:O	1:B:2506:LEU:HG	2.08	0.53
1:B:3133:GLN:O	1:B:3137:GLU:HG2	2.09	0.53
1:B:3487:ILE:HD11	1:B:3498:TRP:HH2	1.74	0.53
1:B:3908:HIS:CG	1:B:3967:PHE:CZ	2.97	0.53
1:B:3997:LEU:H	1:B:3997:LEU:HD12	1.73	0.53
1:A:2186:VAL:HG21	1:A:2219:LEU:HD21	1.91	0.53
1:A:3024:PRO:HB2	1:A:3067:LYS:NZ	2.23	0.53
1:A:3251:ASN:ND2	1:A:3254:LEU:HB2	2.24	0.53
1:A:3578:LEU:HD11	1:A:3686:TRP:CZ3	2.43	0.53
1:B:531:PHE:CZ	1:B:619:ASP:HB2	2.43	0.53
1:B:550:PHE:CZ	1:B:632:GLU:HG2	2.42	0.53
1:B:1802:TYR:HA	1:B:1805:PHE:CD2	2.37	0.53
1:B:1916:ILE:O	1:B:1920:TYR:HD1	1.92	0.53
1:B:2009:LYS:HG2	1:B:2011:ALA:N	2.24	0.53
1:B:2379:MSE:SE	1:B:2408:MSE:SE	3.27	0.53
1:B:2532:PRO:HG2	1:B:2538:ARG:N	2.23	0.53
1:B:2877:SER:O	1:B:2879:GLY:N	2.28	0.53
1:B:3080:LEU:HA	1:B:3086:LEU:HD22	1.91	0.53
1:B:3719:ILE:HG23	1:B:3720:ALA:H	1.73	0.53
1:B:3879:PRO:HG2	1:B:4128:MSE:HE3	1.91	0.53
1:B:3946:PHE:CE2	1:B:4048:LYS:HD2	2.44	0.53
1:B:3972:LEU:HB2	1:B:3974:MSE:HE2	1.91	0.53
1:A:139:ARG:O	1:A:141:SER:N	2.39	0.53
1:A:558:GLU:HA	1:A:561:ASN:ND2	2.24	0.53
1:A:562:HIS:HA	1:A:565:TYR:HB3	1.91	0.53
1:A:1382:ILE:HD12	1:A:1386:ILE:HD11	1.91	0.53
1:A:1982:ILE:HG23	1:A:1986:ARG:NE	2.24	0.53
1:A:2083:LEU:N	1:A:2086:ASP:HB2	2.24	0.53
1:A:3238:MSE:O	1:A:3242:MSE:HG3	2.08	0.53
1:A:3498:TRP:NE1	1:A:3502:MSE:HB2	2.23	0.53
1:A:3696:ARG:O	1:A:3699:LEU:HB2	2.09	0.53
1:B:244:THR:O	1:B:248:ILE:HG13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:658:THR:N	1:B:733:LEU:HD13	2.24	0.53
1:B:1349:LEU:CD2	1:B:1359:LEU:HB2	2.38	0.53
1:B:1652:ILE:HG13	1:B:1684:LEU:HD12	1.90	0.53
1:B:2517:LEU:HD23	1:B:2517:LEU:H	1.73	0.53
1:B:2877:SER:C	1:B:2879:GLY:N	2.67	0.53
1:B:3425:ARG:NH1	1:B:4003:ASP:OD2	2.42	0.53
1:A:659:ARG:NH2	1:A:662:LEU:HG	2.18	0.52
1:A:1550:VAL:HG23	1:A:1551:ILE:H	1.74	0.52
1:A:1560:TYR:O	1:A:1563:PHE:N	2.30	0.52
1:A:1729:PHE:H	1:A:1730:PRO:HD2	1.74	0.52
1:A:3145:ILE:HG23	1:A:3196:LYS:HG2	1.91	0.52
1:A:3638:LYS:C	1:A:3641:ASP:H	2.16	0.52
1:A:3640:PHE:HB3	1:A:3644:PHE:CE2	2.44	0.52
1:B:357:LYS:HB2	1:B:361:ILE:HG22	1.89	0.52
1:B:385:TYR:CE2	1:B:424:LEU:HD21	2.44	0.52
1:B:986:PRO:O	1:B:990:GLN:HG2	2.10	0.52
1:B:1733:THR:N	1:B:1734:PRO:HD3	2.24	0.52
1:B:1933:LEU:HD22	1:B:1937:ARG:HG2	1.90	0.52
1:B:2273:GLY:O	1:B:2276:LEU:HB3	2.09	0.52
1:B:2420:PHE:CE2	1:B:2424:MSE:HE3	2.44	0.52
1:B:3175:PRO:HB2	1:B:3178:ILE:HG13	1.90	0.52
1:A:1111:LEU:O	1:A:1114:ALA:HB3	2.09	0.52
1:A:1373:VAL:C	1:A:1375:THR:H	2.16	0.52
1:A:2462:VAL:HG11	1:A:2473:MSE:HE1	1.91	0.52
1:A:3007:GLU:HA	1:A:3011:LEU:HB2	1.90	0.52
1:A:3051:LEU:HD22	1:A:3058:ASP:HB2	1.91	0.52
1:A:3170:ASP:O	1:A:3172:LYS:NZ	2.39	0.52
1:A:3397:GLN:NE2	1:A:3449:LYS:HD3	2.21	0.52
1:A:3498:TRP:CD1	1:A:3498:TRP:O	2.61	0.52
1:A:4081:ALA:HB2	1:A:4116:ILE:HD11	1.90	0.52
1:B:138:PHE:CD2	1:B:173:LYS:HE3	2.38	0.52
1:B:245:SER:O	1:B:248:ILE:N	2.42	0.52
1:B:396:PHE:CZ	1:B:397:LEU:HG	2.44	0.52
1:B:730:LEU:HA	1:B:733:LEU:CD1	2.39	0.52
1:B:933:LEU:O	1:B:936:SER:N	2.41	0.52
1:B:1096:VAL:HG23	1:B:1099:PHE:HE2	1.73	0.52
1:B:1299:GLU:C	1:B:1302:ALA:H	2.17	0.52
1:B:1356:TRP:HZ2	1:B:1409:SER:HB3	1.72	0.52
1:B:2223:VAL:HB	1:B:2238:ILE:HD12	1.92	0.52
1:B:2461:PHE:O	1:B:2465:PRO:HD3	2.09	0.52
1:B:2999:LEU:HA	1:B:3002:TYR:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3461:ALA:O	1:B:3464:LYS:N	2.41	0.52
1:A:103:TYR:O	1:A:107:ILE:HG13	2.09	0.52
1:A:104:SER:HA	1:A:107:ILE:HD12	1.92	0.52
1:A:175:TYR:HE1	1:A:200:PHE:CB	2.23	0.52
1:A:231:LEU:HB2	1:A:275:PHE:CZ	2.44	0.52
1:A:535:LEU:HD22	1:A:626:LEU:HG	1.91	0.52
1:A:1520:ALA:O	1:A:1524:LEU:HD13	2.09	0.52
1:A:1725:GLN:OE1	1:A:1754:GLN:NE2	2.43	0.52
1:A:1760:GLU:CB	1:A:1894:SER:HA	2.40	0.52
1:A:1977:ILE:C	1:A:1979:GLU:H	2.13	0.52
1:A:2281:MSE:SE	1:A:2286:PRO:CB	3.07	0.52
1:A:2395:THR:O	1:A:2399:GLU:HB2	2.09	0.52
1:A:2420:PHE:HE1	1:A:2436:LEU:HD22	1.75	0.52
1:A:3117:ILE:HD12	1:A:3125:ARG:NH1	2.23	0.52
1:A:4071:ALA:O	1:A:4075:ARG:CB	2.55	0.52
1:B:70:ARG:HG3	1:B:78:PHE:HB3	1.90	0.52
1:B:217:LEU:N	1:B:218:PRO:HD2	2.23	0.52
1:B:249:PHE:HD1	1:B:265:TYR:CE1	2.27	0.52
1:B:580:ASP:OD1	1:B:581:LEU:N	2.42	0.52
1:B:922:SER:O	1:B:924:ARG:N	2.42	0.52
1:B:1073:PHE:CD1	1:B:1074:LYS:N	2.74	0.52
1:B:1880:MSE:HE2	1:B:1884:LEU:HD21	1.92	0.52
1:B:3684:SER:OG	1:B:3685:PRO:HD3	2.10	0.52
1:A:178:LEU:HB3	1:A:197:PHE:CZ	2.45	0.52
1:A:654:ILE:O	1:A:657:SER:N	2.42	0.52
1:A:703:CYS:O	1:A:707:PHE:HD1	1.92	0.52
1:A:1369:MSE:HE1	1:A:1414:ILE:O	2.10	0.52
1:A:2542:LEU:CB	1:A:2546:TYR:HE2	2.18	0.52
1:A:3033:GLU:OE2	1:A:3079:GLU:OE2	2.27	0.52
1:A:3416:LEU:CD1	1:A:3446:VAL:HG12	2.40	0.52
1:B:69:VAL:HG12	1:B:70:ARG:N	2.24	0.52
1:B:937:MSE:O	1:B:941:MSE:HG3	2.08	0.52
1:B:1104:LEU:HD22	1:B:1135:CYS:SG	2.49	0.52
1:B:1698:PHE:HD1	1:B:1699:PHE:N	2.07	0.52
1:B:2464:HIS:H	1:B:2465:PRO:HD3	1.74	0.52
1:B:2824:LYS:O	1:B:2826:LEU:HG	2.09	0.52
1:A:385:TYR:CE1	1:A:421:LEU:HD23	2.45	0.52
1:A:608:PRO:HB2	1:A:1800:SER:HB2	1.91	0.52
1:A:730:LEU:HA	1:A:733:LEU:HD12	1.90	0.52
1:A:1090:ARG:HH22	1:A:1096:VAL:HG22	1.74	0.52
1:A:2799:GLN:CB	1:A:2808:LEU:HD11	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3331:GLY:O	1:A:3335:ARG:HD2	2.09	0.52
1:A:3503:VAL:CG2	1:A:3536:SER:HA	2.39	0.52
1:A:3588:TRP:O	1:A:3592:VAL:HG23	2.08	0.52
1:A:3620:PRO:CB	1:A:3633:ILE:HG23	2.39	0.52
1:A:3769:GLN:O	1:A:3773:GLY:HA3	2.10	0.52
1:B:88:PHE:O	1:B:91:ILE:HG13	2.09	0.52
1:B:194:GLU:HA	1:B:197:PHE:HD2	1.74	0.52
1:B:1244:LEU:HD13	1:B:3698:GLU:OE2	2.10	0.52
1:B:1883:ARG:HB2	1:B:1923:PHE:CZ	2.44	0.52
1:B:1911:LEU:O	1:B:1913:LYS:N	2.37	0.52
1:B:1913:LYS:HG3	1:B:1916:ILE:HD12	1.91	0.52
1:B:2002:LYS:O	1:B:2004:TYR:N	2.43	0.52
1:B:2308:SER:H	1:B:2348:GLN:NE2	2.08	0.52
1:B:2854:PHE:CZ	1:B:2881:LEU:HB2	2.45	0.52
1:B:2987:THR:HB	1:B:2991:LYS:N	2.20	0.52
1:B:3625:LEU:HD13	1:B:3633:ILE:HG13	1.91	0.52
1:A:446:PHE:HB2	1:A:533:HIS:CD2	2.44	0.52
1:A:476:ARG:O	1:A:479:ILE:HB	2.10	0.52
1:A:612:LEU:HD23	1:A:613:HIS:N	2.24	0.52
1:A:913:ARG:HB3	1:A:934:LEU:HD12	1.90	0.52
1:A:985:GLU:HG3	1:A:1031:ARG:NH2	2.25	0.52
1:A:1675:TYR:OH	1:A:1679:LEU:HD11	2.10	0.52
1:A:2405:VAL:O	1:A:2408:MSE:HB2	2.08	0.52
1:A:2854:PHE:CZ	1:A:2881:LEU:HB2	2.44	0.52
1:A:3251:ASN:HD21	1:A:3254:LEU:HD13	1.75	0.52
1:A:3464:LYS:HD2	1:A:3467:ARG:HD2	1.91	0.52
1:A:3602:ASN:HA	1:A:3606:ILE:HG12	1.92	0.52
1:A:3775:LEU:HB2	1:A:3787:GLN:NE2	2.24	0.52
1:B:567:GLU:O	1:B:571:SER:N	2.42	0.52
1:B:580:ASP:O	1:B:584:GLU:N	2.43	0.52
1:B:631:ARG:HG2	1:B:669:LEU:HD11	1.91	0.52
1:B:658:THR:CG2	1:B:659:ARG:HH11	2.17	0.52
1:B:1993:GLU:HG2	1:B:2043:PHE:CD2	2.44	0.52
1:B:2210:VAL:HG13	1:B:2211:LEU:HG	1.90	0.52
1:B:2364:LEU:O	1:B:2368:THR:OG1	2.11	0.52
1:B:2546:TYR:CE1	1:B:2558:ALA:CB	2.90	0.52
1:B:2546:TYR:HE1	1:B:2558:ALA:CB	2.20	0.52
1:B:4077:TYR:CZ	1:B:4119:ARG:HG2	2.44	0.52
1:B:4103:GLN:H	1:B:4103:GLN:CD	2.16	0.52
1:A:408:TYR:HB2	1:A:453:MSE:HG2	1.91	0.52
1:A:736:LEU:O	1:A:740:ILE:HG13	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:967:PRO:O	1:A:970:LEU:N	2.42	0.52
1:A:1067:ALA:HB1	1:A:1111:LEU:HD11	1.91	0.52
1:A:1424:THR:OG1	1:A:1425:ALA:N	2.34	0.52
1:A:1508:LYS:C	1:A:1510:LEU:H	2.18	0.52
1:A:3280:TYR:CD1	1:A:3328:ILE:HD11	2.44	0.52
1:B:552:SER:O	1:B:556:SER:HB2	2.09	0.52
1:B:554:ASN:CG	1:B:637:LYS:HZ3	2.18	0.52
1:B:1352:SER:HB3	1:B:1353:PRO:HD3	1.92	0.52
1:B:1399:CYS:O	1:B:1403:MSE:HG3	2.10	0.52
1:B:1885:PRO:O	1:B:1888:ASP:N	2.42	0.52
1:B:2031:LEU:CB	1:B:2033:ASP:HB2	2.37	0.52
1:B:2365:ASN:ND2	1:B:2382:VAL:HG11	2.24	0.52
1:B:2803:ILE:O	1:B:2805:ALA:N	2.43	0.52
1:B:2942:ILE:HG22	1:B:2943:PHE:CD1	2.45	0.52
1:B:3280:TYR:O	1:B:3283:LEU:HB3	2.09	0.52
1:B:3575:LEU:HG	1:B:3687:MSE:CG	2.36	0.52
1:B:3649:SER:HA	1:B:3652:LEU:HG	1.92	0.52
1:A:433:PRO:HB2	1:A:1812:LEU:HA	1.91	0.52
1:A:653:LEU:HD12	1:A:656:GLN:HG3	1.92	0.52
1:A:1733:THR:OG1	1:A:1877:LEU:HD13	2.09	0.52
1:A:2125:TRP:CZ2	1:A:2128:PHE:HB2	2.45	0.52
1:A:2427:ARG:HD3	1:A:2436:LEU:HD11	1.91	0.52
1:A:2538:ARG:HH11	1:A:2565:MSE:HG3	1.74	0.52
1:A:3461:ALA:O	1:A:3464:LYS:N	2.43	0.52
1:A:3496:ILE:HG23	1:A:3499:ILE:HD11	1.91	0.52
1:A:3964:THR:O	1:A:3967:PHE:CD1	2.59	0.52
1:B:1412:LYS:O	1:B:1415:LEU:HB2	2.10	0.52
1:A:14:ARG:HE	1:A:2396:LEU:CD1	2.23	0.52
1:A:872:THR:O	1:A:876:SER:HB2	2.09	0.52
1:A:2289:ASP:O	1:A:2291:GLN:N	2.43	0.52
1:A:2886:GLN:CG	1:A:2887:PRO:HD3	2.39	0.52
1:A:3109:SER:O	1:A:3112:GLN:HB3	2.10	0.52
1:A:3398:PRO:HG2	1:A:3399:PRO:HD3	1.92	0.52
1:B:358:GLU:O	1:B:361:ILE:HG12	2.10	0.52
1:B:627:VAL:CG1	1:B:628:GLU:H	2.17	0.52
1:B:865:GLN:HB2	1:B:869:ASN:OD1	2.10	0.52
1:B:1006:THR:HA	1:B:1009:LEU:HD12	1.91	0.52
1:B:2361:ILE:HA	1:B:2364:LEU:HG	1.92	0.52
1:B:3128:LYS:C	1:B:3130:GLN:H	2.17	0.52
1:B:3330:LEU:C	1:B:3332:THR:H	2.17	0.52
1:B:3475:TYR:O	1:B:3479:THR:HG22	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3840:LYS:O	1:B:3844:THR:HG23	2.09	0.52
1:A:181:LEU:CD1	1:A:189:MSE:HE2	2.39	0.52
1:A:493:LYS:HB3	1:A:494:PRO:CD	2.39	0.52
1:A:1070:PRO:O	1:A:1072:ALA:N	2.43	0.52
1:A:1711:ARG:O	1:A:1715:GLU:HG3	2.10	0.52
1:A:2271:SER:OG	1:A:2272:VAL:N	2.40	0.52
1:A:3856:MSE:O	1:A:3859:TYR:OH	2.10	0.52
1:B:359:LEU:O	1:B:362:ALA:HB3	2.10	0.52
1:B:413:PHE:O	1:B:417:VAL:HG23	2.10	0.52
1:B:658:THR:O	1:B:661:PRO:HD2	2.09	0.52
1:B:805:LEU:HA	1:B:808:GLU:OE1	2.10	0.52
1:B:986:PRO:C	1:B:990:GLN:HE21	2.18	0.52
1:B:2097:LEU:HD23	1:B:2100:LEU:HD22	1.90	0.52
1:B:2154:GLU:O	1:B:2157:PHE:HB2	2.10	0.52
1:B:2183:HIS:O	1:B:2187:VAL:CB	2.26	0.52
1:B:2199:LEU:HA	1:B:2202:PRO:HD2	1.92	0.52
1:B:2440:TYR:O	1:B:2443:MSE:HE2	2.10	0.52
1:B:3058:ASP:OD1	1:B:3060:SER:N	2.43	0.52
1:B:3196:LYS:C	1:B:3199:PRO:HD2	2.35	0.52
1:B:3277:VAL:HG23	1:B:3324:ARG:CD	2.40	0.52
1:B:3487:ILE:HA	1:B:3490:VAL:HG22	1.92	0.52
1:B:4121:TRP:CD1	1:B:4123:GLY:H	2.27	0.52
1:A:111:CYS:HA	1:A:134:LEU:HD22	1.91	0.51
1:A:655:LEU:HD12	1:A:658:THR:HB	1.91	0.51
1:A:1010:LEU:HB2	1:A:1028:PHE:CE1	2.44	0.51
1:A:1014:LEU:HA	1:A:1025:LEU:HD13	1.91	0.51
1:A:1632:TRP:HA	1:A:1635:LYS:HD2	1.91	0.51
1:A:3311:ASN:O	1:A:3313:SER:N	2.43	0.51
1:A:3333:THR:OG1	1:A:3385:LEU:HB3	2.10	0.51
1:A:3912:CYS:HB2	1:A:3984:MSE:HE2	1.91	0.51
1:B:756:PHE:O	1:B:759:GLY:C	2.52	0.51
1:B:1106:ILE:O	1:B:1109:GLU:HB3	2.11	0.51
1:B:1132:ASP:HA	1:B:1135:CYS:SG	2.50	0.51
1:B:1524:LEU:HD11	1:B:1592:MSE:HE3	1.92	0.51
1:B:1640:GLU:HG2	1:B:1691:GLN:HG2	1.92	0.51
1:B:1747:LEU:HD23	1:B:1750:LEU:HD12	1.92	0.51
1:B:1758:LEU:HD22	1:B:1759:LEU:HD22	1.92	0.51
1:B:1957:ASN:O	1:B:1961:PHE:N	2.43	0.51
1:B:2454:LEU:O	1:B:2457:PRO:HD2	2.10	0.51
1:B:2884:LEU:O	1:B:2887:PRO:HD2	2.10	0.51
1:B:2933:ILE:HG12	1:B:3979:LEU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3781:CYS:SG	1:B:3786:LEU:HB2	2.50	0.51
1:A:557:SER:O	1:A:560:LEU:N	2.42	0.51
1:A:760:LEU:HD11	1:A:799:TYR:HB2	1.92	0.51
1:A:939:MSE:CE	1:A:942:LEU:HD13	2.40	0.51
1:A:1101:PHE:CG	1:A:1138:ILE:HG12	2.45	0.51
1:A:1330:TYR:O	1:A:1333:SER:OG	2.28	0.51
1:A:1590:THR:HG23	1:A:1591:LYS:N	2.25	0.51
1:A:2003:LYS:O	1:A:2007:ILE:HG13	2.11	0.51
1:A:2185:MSE:O	1:A:2189:ILE:HG12	2.11	0.51
1:A:2298:GLU:HB3	1:A:2301:GLN:HB3	1.92	0.51
1:A:2379:MSE:HE3	1:A:2383:PHE:HD1	1.75	0.51
1:A:3462:ARG:HH21	1:A:3501:HIS:CD2	2.28	0.51
1:A:3505:LEU:O	1:A:3510:GLN:HB2	2.11	0.51
1:A:3510:GLN:CD	1:A:3513:ALA:HB2	2.35	0.51
1:A:3516:HIS:CG	1:A:3517:SER:N	2.77	0.51
1:A:3585:PHE:CE2	1:A:3613:MSE:SE	3.13	0.51
1:A:3631:LYS:HD2	1:A:3682:GLU:HG2	1.91	0.51
1:A:3659:PHE:CD1	1:A:3662:ILE:HD12	2.45	0.51
1:A:3705:TYR:HD2	1:A:3792:SER:HB2	1.74	0.51
1:A:3928:PHE:CD1	1:A:3928:PHE:C	2.88	0.51
1:A:4088:ASN:OD1	1:A:4091:ALA:HB3	2.09	0.51
1:B:276:ALA:HB2	1:B:318:SER:OG	2.10	0.51
1:B:613:HIS:CE1	1:B:614:PRO:HD3	2.45	0.51
1:B:886:TRP:HZ3	1:B:954:GLY:O	1.93	0.51
1:B:981:ARG:CG	1:B:982:GLN:N	2.72	0.51
1:B:1213:LYS:O	1:B:1215:GLU:N	2.43	0.51
1:B:1263:ALA:O	1:B:1267:TYR:HD1	1.94	0.51
1:B:1894:SER:C	1:B:1896:ILE:N	2.66	0.51
1:B:1905:ILE:HG12	1:B:1951:VAL:HG11	1.92	0.51
1:B:2177:ASN:HB3	1:B:2182:ILE:N	2.24	0.51
1:B:2307:MSE:HB3	1:B:2348:GLN:NE2	2.17	0.51
1:B:2374:LEU:HD13	1:B:2377:ARG:HB2	1.91	0.51
1:B:2796:ALA:O	1:B:2800:ARG:HG3	2.10	0.51
1:B:3343:SER:O	1:B:3345:PRO:HD3	2.10	0.51
1:A:17:GLU:OE2	1:A:61:ARG:NH1	2.43	0.51
1:A:21:ALA:O	1:A:24:ARG:HB2	2.11	0.51
1:A:127:ALA:O	1:A:131:LEU:HB2	2.11	0.51
1:A:135:LEU:CD2	1:A:173:LYS:HD2	2.40	0.51
1:A:352:VAL:HB	1:A:357:LYS:HG2	1.92	0.51
1:A:576:VAL:HG13	1:A:601:TRP:HE3	1.76	0.51
1:A:649:PHE:HE1	1:A:653:LEU:H	1.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:659:ARG:HH22	1:A:662:LEU:CG	2.19	0.51
1:A:681:LYS:HD2	1:A:746:ARG:HE	1.75	0.51
1:A:1376:LEU:HD23	1:A:1376:LEU:H	1.75	0.51
1:A:1970:LYS:NZ	1:A:2017:GLY:HA3	2.24	0.51
1:A:3909:ALA:HB2	1:A:3980:MSE:HE3	1.92	0.51
1:B:208:MSE:SE	1:B:220:LEU:HD21	2.61	0.51
1:B:384:MSE:O	1:B:385:TYR:HB3	2.11	0.51
1:B:649:PHE:O	1:B:651:TYR:N	2.43	0.51
1:B:1029:CYS:CB	1:B:1085:ILE:HG13	2.36	0.51
1:B:1166:LEU:HB3	1:B:1170:LYS:HZ1	1.73	0.51
1:B:1275:THR:HA	1:B:1279:LEU:CB	2.41	0.51
1:B:1579:VAL:HG12	1:B:1635:LYS:HG2	1.91	0.51
1:B:2874:ALA:O	1:B:2877:SER:N	2.44	0.51
1:B:3107:ILE:HG23	1:B:3110:PHE:CZ	2.45	0.51
1:A:266:ALA:CB	1:A:308:LEU:HG	2.41	0.51
1:A:906:PHE:O	1:A:909:VAL:N	2.35	0.51
1:A:1072:ALA:HB1	1:A:1076:LEU:HD11	1.92	0.51
1:A:1750:LEU:O	1:A:1754:GLN:HG3	2.10	0.51
1:A:2203:THR:O	1:A:2208:ASP:N	2.43	0.51
1:A:2450:GLU:O	1:A:2454:LEU:HG	2.11	0.51
1:A:2452:ARG:HG2	1:A:2498:ILE:CD1	2.40	0.51
1:A:3283:LEU:HD21	1:A:3297:VAL:HG22	1.92	0.51
1:A:3772:ASN:HB3	1:A:3788:LEU:H	1.74	0.51
1:B:111:CYS:O	1:B:134:LEU:HD13	2.10	0.51
1:B:1298:LEU:O	1:B:1302:ALA:HB2	2.10	0.51
1:B:2436:LEU:O	1:B:2439:ILE:HG22	2.10	0.51
1:B:2957:LEU:CB	1:B:3989:ARG:HH22	2.22	0.51
1:B:3493:TRP:NE1	1:B:3708:ARG:O	2.40	0.51
1:B:3794:VAL:HB	1:B:3802:LEU:H	1.76	0.51
1:B:3967:PHE:O	1:B:3970:LEU:HD23	2.10	0.51
1:B:4013:TRP:CZ3	1:B:4014:LYS:HB2	2.45	0.51
1:A:413:PHE:O	1:A:417:VAL:HG23	2.11	0.51
1:A:863:GLY:HA2	1:A:866:ILE:HD11	1.91	0.51
1:A:1503:LEU:O	1:A:1507:CYS:HB3	2.11	0.51
1:A:3588:TRP:HD1	1:A:3612:ARG:HD2	1.75	0.51
1:A:4019:LYS:HA	1:A:4019:LYS:HE2	1.93	0.51
1:B:407:VAL:O	1:B:411:PRO:HD3	2.10	0.51
1:B:941:MSE:HE3	1:B:958:MSE:CG	2.40	0.51
1:B:1405:ALA:O	1:B:1410:PRO:HD3	2.10	0.51
1:B:1970:LYS:CE	1:B:2017:GLY:HA3	2.40	0.51
1:B:2094:MSE:SE	1:B:2143:ARG:HG3	2.60	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2289:ASP:O	1:B:2290:PRO:C	2.53	0.51
1:B:2355:THR:O	1:B:2356:MSE:HG3	2.11	0.51
1:B:3059:GLN:H	1:B:3059:GLN:CD	2.17	0.51
1:A:609:ALA:HB2	1:A:1800:SER:OG	2.11	0.51
1:A:619:ASP:O	1:A:621:SER:N	2.44	0.51
1:A:849:GLU:CD	1:A:849:GLU:H	2.18	0.51
1:A:1465:HIS:HA	1:A:1469:PRO:CD	2.41	0.51
1:A:1723:PRO:C	1:A:1725:GLN:N	2.66	0.51
1:A:2037:SER:O	1:A:2041:SER:HB3	2.10	0.51
1:A:2114:GLU:HG3	1:A:2116:ASP:H	1.75	0.51
1:A:2224:PHE:HZ	1:A:2276:LEU:HD22	1.73	0.51
1:A:3147:LYS:O	1:A:3151:LEU:HG	2.10	0.51
1:A:3189:PHE:O	1:A:3193:ILE:HB	2.10	0.51
1:A:3564:GLN:C	1:A:3566:GLY:H	2.19	0.51
1:A:3813:LYS:HB3	1:A:3925:LEU:HG	1.93	0.51
1:A:4062:ASP:HB3	1:A:4078:VAL:HG21	1.93	0.51
1:B:511:SER:HB2	1:B:515:ARG:HG2	1.93	0.51
1:B:1266:CYS:HA	1:B:1344:PHE:CE1	2.46	0.51
1:B:3134:ALA:O	1:B:3138:ILE:HG12	2.11	0.51
1:B:3298:LEU:HD11	1:B:3351:ILE:HD13	1.93	0.51
1:B:3525:TYR:CZ	1:B:3533:PHE:HE1	2.29	0.51
1:B:3954:PRO:HB2	1:B:4027:TRP:CD1	2.45	0.51
1:A:19:LEU:HD22	1:A:30:ALA:HB1	1.93	0.51
1:A:514:VAL:HG11	1:A:610:ALA:O	2.10	0.51
1:A:649:PHE:C	1:A:651:TYR:H	2.18	0.51
1:A:917:LEU:HD22	1:A:969:LEU:HG	1.93	0.51
1:A:969:LEU:O	1:A:973:ALA:HB2	2.10	0.51
1:A:1378:GLU:O	1:A:1382:ILE:HG12	2.11	0.51
1:A:1865:THR:HA	1:A:1868:THR:OG1	2.10	0.51
1:A:1876:ILE:O	1:A:1876:ILE:HG12	2.11	0.51
1:A:1993:GLU:O	1:A:1997:PRO:HD2	2.10	0.51
1:A:3173:MSE:HB3	1:A:3175:PRO:HD2	1.93	0.51
1:A:3173:MSE:HG2	1:A:3174:ASP:OD1	2.11	0.51
1:B:153:PHE:O	1:B:157:TYR:HD2	1.94	0.51
1:B:798:GLY:HA2	1:B:873:VAL:CG1	2.41	0.51
1:B:887:ASP:O	1:B:3889:ARG:HB3	2.11	0.51
1:B:1975:LEU:HA	1:B:1976:LEU:HB3	1.91	0.51
1:B:3142:ILE:O	1:B:3145:ILE:HG22	2.11	0.51
1:B:3451:LEU:HD21	1:B:3483:MSE:HG2	1.93	0.51
1:B:3583:LEU:O	1:B:3587:ASP:CB	2.58	0.51
1:A:282:PHE:CD1	1:A:282:PHE:C	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:371:GLY:O	1:A:375:VAL:N	2.44	0.51
1:A:901:MSE:HG2	1:A:2819:GLU:HG2	1.92	0.51
1:A:968:VAL:HA	1:A:971:ARG:HG2	1.93	0.51
1:A:1073:PHE:CD1	1:A:1074:LYS:N	2.76	0.51
1:A:2952:ILE:O	1:A:2955:SER:OG	2.18	0.51
1:A:3044:MSE:HE3	1:A:3060:SER:OG	2.11	0.51
1:A:3354:ASP:O	1:A:3357:ARG:HB2	2.11	0.51
1:A:3780:ALA:HB1	1:A:3784:ARG:NH1	2.26	0.51
1:A:3853:GLY:C	1:A:3855:TYR:H	2.18	0.51
1:A:3954:PRO:CG	1:A:4027:TRP:HA	2.41	0.51
1:B:19:LEU:HB2	1:B:34:LEU:HD22	1.92	0.51
1:B:273:ARG:HE	1:B:314:SER:HB3	1.76	0.51
1:B:981:ARG:HG2	1:B:982:GLN:N	2.26	0.51
1:B:1729:PHE:H	1:B:1730:PRO:HD2	1.75	0.51
1:B:2038:GLU:HB3	1:B:2076:VAL:HG21	1.93	0.51
1:B:2365:ASN:HB2	1:B:2400:VAL:HG13	1.93	0.51
1:B:2470:ARG:HB3	1:B:2474:TYR:CE2	2.45	0.51
1:B:2923:TRP:HD1	1:B:2926:LEU:HD21	1.76	0.51
1:B:3064:PHE:CG	1:B:3065:ILE:N	2.74	0.51
1:B:3448:GLU:HA	1:B:3451:LEU:HD22	1.91	0.51
1:B:3450:MSE:HG2	1:B:3464:LYS:HG2	1.93	0.51
1:B:3723:ASP:HB2	1:B:3741:ARG:NE	2.26	0.51
1:A:479:ILE:O	1:A:483:VAL:HG13	2.11	0.51
1:A:963:LYS:HB3	1:A:1009:LEU:HD11	1.93	0.51
1:A:2274:ILE:HD11	1:A:2314:GLU:HB3	1.92	0.51
1:A:2375:ALA:HB1	1:A:2411:LEU:HD22	1.93	0.51
1:A:2936:TYR:O	1:A:2940:ARG:CB	2.58	0.51
1:A:3705:TYR:CD2	1:A:3792:SER:HB2	2.46	0.51
1:A:3905:ALA:O	1:A:3908:HIS:N	2.44	0.51
1:B:83:GLU:HG3	1:B:130:LEU:HD13	1.91	0.51
1:B:125:ILE:H	1:B:126:PRO:CD	2.24	0.51
1:B:178:LEU:HB3	1:B:197:PHE:HZ	1.75	0.51
1:B:306:VAL:HG23	1:B:308:LEU:H	1.75	0.51
1:B:714:VAL:CG1	1:B:734:LEU:HD21	2.41	0.51
1:B:1132:ASP:O	1:B:1135:CYS:N	2.44	0.51
1:B:1700:THR:O	1:B:1702:LEU:N	2.44	0.51
1:B:2928:LYS:HD2	1:B:3783:GLN:HB3	1.93	0.51
1:B:3696:ARG:O	1:B:3699:LEU:HB2	2.11	0.51
1:B:3751:LEU:HD13	1:B:3805:TRP:HB2	1.92	0.51
1:B:3883:LEU:HG	1:B:3970:LEU:HD13	1.93	0.51
1:B:3989:ARG:HH21	1:B:4100:GLU:CB	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:ILE:O	1:A:104:SER:N	2.44	0.51
1:A:273:ARG:HG3	1:A:274:LEU:H	1.76	0.51
1:A:540:MSE:HG2	1:A:541:MSE:H	1.76	0.51
1:A:743:LEU:HD22	1:A:746:ARG:HH12	1.76	0.51
1:A:877:ASP:O	1:A:879:MSE:N	2.44	0.51
1:A:1004:GLN:O	1:A:1008:ALA:HB2	2.11	0.51
1:A:2004:TYR:CD1	1:A:2004:TYR:C	2.88	0.51
1:A:2205:VAL:HB	1:A:2206:PRO:HD3	1.92	0.51
1:A:2356:MSE:SE	1:A:2360:PHE:CZ	3.14	0.51
1:A:3614:TYR:CE1	1:A:3618:GLY:HA3	2.46	0.51
1:B:63:PHE:CD1	1:B:89:LEU:HD13	2.46	0.51
1:B:538:ASP:CB	1:B:627:VAL:HG13	2.39	0.51
1:B:716:VAL:HG11	1:B:1121:LEU:HD13	1.93	0.51
1:B:1122:GLY:O	1:B:1123:THR:OG1	2.23	0.51
1:B:2495:SER:O	1:B:2498:ILE:HB	2.10	0.51
1:B:2890:ILE:HG21	1:B:2922:ARG:HH12	1.76	0.51
1:B:2943:PHE:O	1:B:2945:SER:N	2.41	0.51
1:B:3518:VAL:HG13	1:B:3554:PHE:CZ	2.46	0.51
1:B:3568:ILE:HD11	1:B:3691:LYS:CD	2.41	0.51
1:B:3572:ILE:HA	1:B:3575:LEU:HB3	1.93	0.51
1:B:3901:ARG:HG2	1:B:3901:ARG:HH11	1.75	0.51
1:B:4077:TYR:OH	1:B:4119:ARG:HG2	2.11	0.51
1:A:84:GLU:O	1:A:88:PHE:HD1	1.94	0.50
1:A:87:LYS:HG2	1:A:133:LYS:CG	2.38	0.50
1:A:295:GLU:CD	1:A:341:PHE:HE1	2.19	0.50
1:A:406:ARG:O	1:A:409:GLN:N	2.27	0.50
1:A:575:ILE:HD11	1:A:579:LEU:HD22	1.93	0.50
1:A:1342:MSE:HE2	1:A:1398:VAL:HG12	1.93	0.50
1:A:1347:THR:O	1:A:1351:THR:OG1	2.27	0.50
1:A:1472:SER:HA	1:A:1476:HIS:CD2	2.46	0.50
1:A:1521:PHE:O	1:A:1524:LEU:HB2	2.11	0.50
1:A:2323:LEU:HD11	1:A:2345:VAL:HG21	1.93	0.50
1:A:2443:MSE:SE	1:A:2480:ILE:HG21	2.61	0.50
1:A:2464:HIS:H	1:A:2465:PRO:CD	2.24	0.50
1:A:2501:LEU:O	1:A:2505:VAL:HG23	2.10	0.50
1:A:3059:GLN:CD	1:A:3059:GLN:H	2.19	0.50
1:A:3167:ARG:HG2	1:A:3186:ARG:NE	2.26	0.50
1:A:3280:TYR:CZ	1:A:3304:VAL:HG23	2.46	0.50
1:A:3979:LEU:CA	1:A:3981:TYR:HB3	2.39	0.50
1:A:4038:TRP:CH2	1:A:4040:PRO:HB3	2.46	0.50
1:B:217:LEU:O	1:B:221:ALA:HB2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:239:GLU:C	1:B:242:PRO:HD2	2.36	0.50
1:B:886:TRP:CD1	1:B:889:GLU:N	2.69	0.50
1:B:928:VAL:O	1:B:932:GLU:HB2	2.11	0.50
1:B:929:ALA:O	1:B:933:LEU:HB2	2.11	0.50
1:B:2002:LYS:C	1:B:2004:TYR:N	2.68	0.50
1:B:2152:ASN:CB	1:B:2153:THR:HA	2.36	0.50
1:B:2204:GLY:HA2	1:B:2208:ASP:OD2	2.12	0.50
1:B:2928:LYS:HG3	1:B:3783:GLN:O	2.11	0.50
1:B:3241:LYS:C	1:B:3243:ILE:H	2.18	0.50
1:B:3487:ILE:CG2	1:B:3495:PHE:HB2	2.37	0.50
1:B:3505:LEU:HD12	1:B:3509:ASP:HB3	1.91	0.50
1:B:3820:MSE:HB2	1:B:3882:LEU:HD13	1.94	0.50
1:B:3915:HIS:ND1	1:B:3920:ILE:HD12	2.27	0.50
1:A:489:ARG:CZ	1:A:489:ARG:O	2.59	0.50
1:A:878:GLU:C	1:A:880:MSE:H	2.19	0.50
1:A:1017:ILE:HG23	1:A:1018:VAL:HG13	1.92	0.50
1:A:1063:LEU:O	1:A:1066:LEU:HB3	2.11	0.50
1:A:1584:GLN:O	1:A:1588:ASP:OD1	2.29	0.50
1:A:1789:GLY:O	1:A:1793:THR:HG23	2.12	0.50
1:A:3011:LEU:HB3	1:A:3047:SER:HB3	1.94	0.50
1:A:3768:PHE:O	1:A:3771:MSE:N	2.44	0.50
1:A:3981:TYR:CE1	1:A:4104:VAL:HB	2.46	0.50
1:B:348:ILE:HG23	1:B:357:LYS:HG3	1.93	0.50
1:B:390:GLN:O	1:B:393:LYS:HG2	2.11	0.50
1:B:411:PRO:O	1:B:415:GLN:HB2	2.12	0.50
1:B:419:SER:HA	1:B:422:LEU:HG	1.94	0.50
1:B:743:LEU:O	1:B:746:ARG:HG2	2.11	0.50
1:B:796:LEU:HD22	1:B:799:TYR:HE2	1.76	0.50
1:B:1376:LEU:HG	1:B:1377:CYS:N	2.26	0.50
1:B:1596:VAL:O	1:B:1600:MSE:HG3	2.11	0.50
1:B:2390:HIS:ND1	1:B:2397:CYS:SG	2.74	0.50
1:B:2462:VAL:CB	1:B:2473:MSE:SE	3.09	0.50
1:B:2935:GLU:O	1:B:2939:LEU:HG	2.10	0.50
1:B:3705:TYR:HE2	1:B:3708:ARG:HH12	1.60	0.50
1:B:3762:GLN:OE1	1:B:3795:PRO:HG3	2.11	0.50
1:A:173:LYS:HA	1:A:176:GLU:OE1	2.11	0.50
1:A:237:SER:O	1:A:278:HIS:HB3	2.10	0.50
1:A:703:CYS:O	1:A:706:LEU:HB2	2.11	0.50
1:A:1042:LYS:HZ1	1:A:1044:ILE:HD12	1.76	0.50
1:A:1350:ASN:ND2	1:A:1404:LYS:HG2	2.27	0.50
1:A:1698:PHE:CD1	1:A:1699:PHE:N	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2095:ALA:HB3	1:A:2096:PRO:HD3	1.92	0.50
1:A:2190:VAL:HA	1:A:2193:ILE:HG22	1.93	0.50
1:A:2216:LEU:O	1:A:2220:MSE:HG3	2.11	0.50
1:A:2254:ARG:HG3	1:A:2255:LEU:N	2.27	0.50
1:A:2339:GLU:O	1:A:2343:GLU:HG3	2.10	0.50
1:A:3007:GLU:OE2	1:A:3046:ARG:HD3	2.10	0.50
1:A:3108:GLN:HA	1:A:3111:MSE:HG3	1.94	0.50
1:A:3674:SER:C	1:A:3677:PRO:HD2	2.35	0.50
1:A:3780:ALA:HB1	1:A:3784:ARG:HH12	1.77	0.50
1:B:398:THR:C	1:B:400:THR:N	2.68	0.50
1:B:408:TYR:CD1	1:B:408:TYR:C	2.90	0.50
1:B:410:MSE:HE1	1:B:445:SER:CB	2.42	0.50
1:B:1036:PHE:CZ	1:B:1082:PHE:HE2	2.29	0.50
1:B:1076:LEU:HD11	1:B:1114:ALA:HB1	1.93	0.50
1:B:1238:GLN:HB2	1:B:1239:PRO:HD3	1.94	0.50
1:B:1469:PRO:HA	1:B:1472:SER:CB	2.38	0.50
1:B:2088:LEU:O	1:B:2092:GLU:N	2.43	0.50
1:B:2145:PHE:CE1	1:B:2188:GLU:HB3	2.47	0.50
1:B:3072:GLU:HG3	1:B:3080:LEU:HD11	1.94	0.50
1:B:3789:ARG:NH2	1:B:3806:LEU:HD22	2.26	0.50
1:A:232:CYS:SG	1:A:274:LEU:HD13	2.51	0.50
1:A:568:PHE:CZ	1:A:653:LEU:HG	2.47	0.50
1:A:767:GLU:O	1:A:771:ASN:HB2	2.10	0.50
1:A:964:ARG:N	1:A:1009:LEU:HD13	2.26	0.50
1:A:1265:GLU:O	1:A:1269:THR:HG23	2.10	0.50
1:A:1751:GLU:HG2	1:A:1870:LYS:CE	2.39	0.50
1:A:1856:THR:O	1:A:1860:GLU:HB2	2.12	0.50
1:A:2000:ARG:HG2	1:A:2001:LYS:HG3	1.92	0.50
1:A:2097:LEU:HD13	1:A:2143:ARG:HG2	1.93	0.50
1:A:2379:MSE:O	1:A:2383:PHE:HB2	2.11	0.50
1:A:2386:LEU:HD11	1:A:2400:VAL:HG12	1.94	0.50
1:A:2956:ALA:HA	1:A:2965:TYR:OH	2.11	0.50
1:B:554:ASN:O	1:B:557:SER:HB2	2.11	0.50
1:B:852:ARG:CZ	1:B:3111:MSE:SE	3.09	0.50
1:B:1162:SER:N	1:B:1165:LEU:HD12	2.20	0.50
1:B:1220:LEU:HD13	1:B:1274:ARG:CG	2.41	0.50
1:B:1503:LEU:O	1:B:1507:CYS:HB3	2.11	0.50
1:B:1956:PHE:HB3	1:B:1998:MSE:HE1	1.93	0.50
1:B:2129:LEU:HD13	1:B:2156:VAL:HG13	1.93	0.50
1:B:2220:MSE:SE	1:B:2256:ILE:CD1	3.10	0.50
1:B:3962:ARG:HD3	1:B:4124:TRP:CE3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:487:LEU:O	1:A:490:ILE:HG22	2.11	0.50
1:A:527:TYR:HH	1:A:615:ALA:C	2.16	0.50
1:A:1102:GLU:O	1:A:1105:VAL:HG22	2.12	0.50
1:A:1107:TYR:HE1	1:A:1111:LEU:HD13	1.75	0.50
1:A:1678:LEU:O	1:A:1682:THR:HG22	2.12	0.50
1:A:1886:LYS:NZ	1:A:1924:THR:HB	2.23	0.50
1:A:1922:ALA:HA	1:A:1925:GLU:OE2	2.11	0.50
1:A:3593:ARG:HD2	1:A:3660:ASN:O	2.12	0.50
1:A:3763:ARG:O	1:A:3767:LEU:HB2	2.12	0.50
1:A:3901:ARG:HG2	1:A:3901:ARG:NH1	2.26	0.50
1:A:3962:ARG:HD3	1:A:4124:TRP:CE3	2.47	0.50
1:A:3981:TYR:O	1:A:3985:VAL:HG23	2.11	0.50
1:B:67:VAL:O	1:B:71:LYS:CB	2.41	0.50
1:B:385:TYR:CD1	1:B:420:VAL:HG13	2.40	0.50
1:B:527:TYR:CE1	1:B:615:ALA:HA	2.46	0.50
1:B:1039:TRP:HH2	1:B:1052:SER:HB3	1.76	0.50
1:B:1101:PHE:O	1:B:1104:LEU:HB2	2.12	0.50
1:B:2157:PHE:CD1	1:B:2157:PHE:C	2.90	0.50
1:B:3012:GLU:HB2	1:B:3050:LYS:HZ3	1.72	0.50
1:B:3151:LEU:O	1:B:3156:PRO:HD3	2.11	0.50
1:B:3810:VAL:HG23	1:B:3815:LEU:HD11	1.93	0.50
1:A:85:ILE:O	1:A:89:LEU:HG	2.10	0.50
1:A:175:TYR:OH	1:A:204:LEU:HD11	2.10	0.50
1:A:234:PHE:O	1:A:235:THR:OG1	2.22	0.50
1:A:252:VAL:C	1:A:254:LYS:H	2.20	0.50
1:A:288:ASP:N	1:A:288:ASP:OD1	2.43	0.50
1:A:801:LYS:O	1:A:805:LEU:HB2	2.11	0.50
1:A:913:ARG:HB2	1:A:934:LEU:HD12	1.93	0.50
1:A:954:GLY:O	1:A:957:PRO:HD2	2.12	0.50
1:A:1502:SER:O	1:A:1505:LEU:N	2.43	0.50
1:A:2166:SER:O	1:A:2170:GLN:HB3	2.12	0.50
1:A:3674:SER:O	1:A:3677:PRO:HD2	2.12	0.50
1:A:4007:LYS:CG	1:A:4041:ARG:HD2	2.35	0.50
1:B:512:GLY:CA	1:B:602:MSE:HG3	2.40	0.50
1:B:722:LYS:HB3	1:B:727:ALA:CA	2.42	0.50
1:B:1406:LEU:HA	1:B:1410:PRO:HG3	1.94	0.50
1:B:1406:LEU:O	1:B:1415:LEU:HD21	2.12	0.50
1:B:2352:HIS:CD2	1:B:2364:LEU:HD21	2.47	0.50
1:B:2430:GLU:OE1	1:B:2433:LYS:HE3	2.11	0.50
1:B:2936:TYR:CZ	1:B:2940:ARG:HD2	2.47	0.50
1:B:3648:GLY:O	1:B:3651:LEU:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3766:GLN:O	1:B:3770:VAL:HG23	2.11	0.50
1:A:66:LEU:CD2	1:A:89:LEU:HD11	2.42	0.50
1:A:334:HIS:O	1:A:338:LEU:HD11	2.12	0.50
1:A:676:ASN:O	1:A:680:ILE:HG13	2.11	0.50
1:A:743:LEU:HG	1:A:783:HIS:CE1	2.44	0.50
1:A:1036:PHE:CZ	1:A:1082:PHE:HE2	2.30	0.50
1:A:1741:ASP:O	1:A:1745:LYS:HG3	2.11	0.50
1:A:2318:ALA:O	1:A:2322:VAL:HB	2.12	0.50
1:A:3049:LEU:HA	1:A:3188:PHE:CZ	2.46	0.50
1:A:3525:TYR:CZ	1:A:3533:PHE:HE1	2.30	0.50
1:A:3998:LEU:O	1:A:4001:THR:OG1	2.28	0.50
1:B:152:LEU:O	1:B:156:PHE:HD1	1.95	0.50
1:B:368:LEU:HA	1:B:372:PRO:HG2	1.94	0.50
1:B:888:ARG:HA	1:B:907:LEU:HD21	1.94	0.50
1:B:1357:LYS:HG3	1:B:1360:LYS:NZ	2.26	0.50
1:B:1696:LEU:HD23	1:B:1700:THR:HG21	1.92	0.50
1:B:1756:PRO:O	1:B:1758:LEU:N	2.34	0.50
1:B:1894:SER:O	1:B:1896:ILE:N	2.44	0.50
1:B:2320:ALA:HB1	1:B:2370:SER:OG	2.10	0.50
1:B:2389:PHE:CD2	1:B:2396:LEU:HD22	2.46	0.50
1:B:2536:LEU:O	1:B:2539:LEU:HB2	2.11	0.50
1:B:3726:VAL:HG21	1:B:3736:LYS:HD3	1.93	0.50
1:B:4066:LEU:HD23	1:B:4075:ARG:HG3	1.94	0.50
1:A:293:LEU:O	1:A:296:VAL:HG12	2.12	0.50
1:A:741:ILE:O	1:A:743:LEU:N	2.45	0.50
1:A:969:LEU:O	1:A:973:ALA:CB	2.60	0.50
1:A:1086:TYR:HD2	1:A:1090:ARG:HG2	1.76	0.50
1:A:1106:ILE:O	1:A:1109:GLU:HB3	2.12	0.50
1:A:1298:LEU:HA	1:A:1301:ILE:HB	1.94	0.50
1:A:1433:ALA:O	1:A:1437:TYR:CD2	2.65	0.50
1:A:1604:SER:HA	1:A:1632:TRP:CE3	2.47	0.50
1:A:1956:PHE:HB3	1:A:1998:MSE:CE	2.41	0.50
1:A:2512:ASP:H	1:A:2519:LEU:HD12	1.76	0.50
1:A:2814:SER:O	1:A:2818:LYS:HB2	2.11	0.50
1:A:3464:LYS:O	1:A:3467:ARG:HB3	2.12	0.50
1:A:3498:TRP:HD1	1:A:3498:TRP:O	1.95	0.50
1:A:3789:ARG:CZ	1:A:3806:LEU:HD22	2.40	0.50
1:A:4066:LEU:HD21	1:A:4078:VAL:HG21	1.94	0.50
1:B:175:TYR:HD2	1:B:222:GLY:HA3	1.76	0.50
1:B:898:PHE:CE2	1:B:2566:THR:HG21	2.47	0.50
1:B:966:PHE:CE2	1:B:988:VAL:HG12	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1074:LYS:O	1:B:1075:ARG:HG3	2.12	0.50
1:B:1586:SER:HB3	1:B:1643:MSE:HE1	1.94	0.50
1:B:1736:PHE:O	1:B:1740:VAL:HG23	2.11	0.50
1:B:1816:ARG:HB3	1:B:1819:PHE:CE1	2.45	0.50
1:B:2080:VAL:HG12	1:B:2081:LEU:H	1.75	0.50
1:B:2212:ALA:O	1:B:2215:LEU:N	2.44	0.50
1:B:2879:GLY:HA2	1:B:2886:GLN:CG	2.29	0.50
1:B:2960:GLU:O	1:B:2965:TYR:CD1	2.65	0.50
1:B:2964:ASP:O	1:B:2968:ALA:HB2	2.12	0.50
1:B:3179:TRP:CZ2	1:B:3258:LEU:HG	2.47	0.50
1:B:3383:GLN:HG3	1:B:3438:GLU:OE2	2.12	0.50
1:B:3510:GLN:O	1:B:3512:VAL:N	2.34	0.50
1:B:3572:ILE:HD13	1:B:3575:LEU:HD22	1.94	0.50
1:A:629:PHE:HA	1:A:634:LEU:HD21	1.91	0.50
1:A:1655:ILE:CD1	1:A:1681:ASP:HB3	2.40	0.50
1:A:1747:LEU:O	1:A:1750:LEU:N	2.41	0.50
1:A:1935:GLU:HB2	1:A:1986:ARG:NH2	2.27	0.50
1:A:2171:LEU:CG	1:A:2177:ASN:HD21	2.25	0.50
1:A:2416:LYS:O	1:A:2420:PHE:HB3	2.12	0.50
1:A:2538:ARG:HH22	1:A:2566:THR:CG2	2.25	0.50
1:A:3495:PHE:CZ	1:A:3521:ILE:HG13	2.47	0.50
1:B:12:LEU:HD13	1:B:42:CYS:SG	2.52	0.50
1:B:1299:GLU:OE2	1:B:1367:HIS:HB2	2.12	0.50
1:B:1348:LEU:O	1:B:1352:SER:N	2.34	0.50
1:B:1455:CYS:O	1:B:1458:LEU:HB2	2.11	0.50
1:B:2922:ARG:HD3	1:B:2930:TYR:HD1	1.77	0.50
1:B:3141:PHE:CZ	1:B:3192:LYS:HB2	2.47	0.50
1:B:3277:VAL:HG23	1:B:3324:ARG:HD2	1.94	0.50
1:B:3503:VAL:HG21	1:B:3535:ILE:O	2.12	0.50
1:A:242:PRO:HD3	1:A:282:PHE:CD2	2.47	0.49
1:A:569:VAL:HG13	1:A:570:LYS:H	1.77	0.49
1:A:1014:LEU:HB2	1:A:1078:ALA:CB	2.41	0.49
1:A:2135:ASN:N	1:A:2136:PRO:CD	2.75	0.49
1:A:2196:TRP:HE1	1:A:2200:ALA:HB2	1.77	0.49
1:A:2373:PRO:HA	1:A:2378:PHE:HZ	1.77	0.49
1:A:3397:GLN:HB3	1:A:3398:PRO:CD	2.42	0.49
1:A:3575:LEU:C	1:A:3577:GLN:H	2.18	0.49
1:A:3989:ARG:HH21	1:A:4100:GLU:HB2	1.77	0.49
1:A:4090:ARG:NH1	1:A:4106:CYS:HA	2.20	0.49
1:B:294:PHE:CZ	1:B:319:PHE:CD2	2.96	0.49
1:B:428:PRO:HB3	1:B:1679:LEU:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:661:PRO:HG2	1:B:733:LEU:HA	1.93	0.49
1:B:1553:PHE:O	1:B:1557:GLU:HB2	2.12	0.49
1:B:2157:PHE:O	1:B:2160:TYR:N	2.45	0.49
1:B:2373:PRO:HB3	1:B:2407:GLY:O	2.11	0.49
1:B:2485:ARG:HH11	1:B:2530:ARG:CZ	2.25	0.49
1:B:2806:LYS:HZ2	1:B:2858:ILE:HG13	1.75	0.49
1:B:2939:LEU:HD21	1:B:2994:TRP:CE2	2.47	0.49
1:B:2957:LEU:CA	1:B:3989:ARG:HH22	2.24	0.49
1:B:3484:THR:HA	1:B:3516:HIS:HE2	1.77	0.49
1:B:3858:MSE:HG3	1:B:4119:ARG:NE	2.27	0.49
1:A:63:PHE:O	1:A:66:LEU:HG	2.13	0.49
1:A:455:LEU:HD13	1:A:459:ARG:CZ	2.42	0.49
1:A:476:ARG:HA	1:A:479:ILE:HD12	1.93	0.49
1:A:617:PRO:HB3	1:A:659:ARG:CG	2.41	0.49
1:A:730:LEU:O	1:A:734:LEU:HG	2.12	0.49
1:A:1166:LEU:HB3	1:A:1170:LYS:HZ1	1.77	0.49
1:A:1905:ILE:HG23	1:A:1951:VAL:HG21	1.94	0.49
1:A:2066:PHE:HB3	1:A:2067:ARG:CG	2.41	0.49
1:A:2168:LEU:HD13	1:A:2214:ARG:NE	2.27	0.49
1:A:2177:ASN:ND2	1:A:2182:ILE:HA	2.28	0.49
1:A:2255:LEU:HA	1:A:2258:GLU:HB2	1.94	0.49
1:A:2936:TYR:HB3	1:A:3979:LEU:CD1	2.41	0.49
1:A:3531:TYR:HB3	1:A:3532:PRO:HD3	1.93	0.49
1:A:3578:LEU:HD11	1:A:3686:TRP:HZ3	1.77	0.49
1:B:114:VAL:HG12	1:B:130:LEU:HD21	1.94	0.49
1:B:252:VAL:C	1:B:254:LYS:H	2.20	0.49
1:B:805:LEU:HD23	1:B:808:GLU:OE2	2.13	0.49
1:B:1965:PHE:O	1:B:1968:SER:OG	2.18	0.49
1:B:2220:MSE:HB3	1:B:2224:PHE:CZ	2.47	0.49
1:B:2447:LYS:N	1:B:2448:PRO:HD2	2.28	0.49
1:B:2458:VAL:HA	1:B:2461:PHE:CD2	2.45	0.49
1:B:2961:ALA:HB1	1:B:3002:TYR:HB2	1.94	0.49
1:B:3272:TRP:CE3	1:B:3307:LEU:HD21	2.46	0.49
1:B:3280:TYR:CZ	1:B:3304:VAL:HG23	2.47	0.49
1:B:3774:ILE:HG22	1:B:3775:LEU:HD23	1.94	0.49
1:A:39:GLY:O	1:A:43:VAL:HG23	2.12	0.49
1:A:47:SER:N	1:A:51:LEU:HD12	2.27	0.49
1:A:282:PHE:CD1	1:A:283:SER:N	2.80	0.49
1:A:884:VAL:HG22	1:A:888:ARG:HG2	1.93	0.49
1:A:965:THR:HA	1:A:968:VAL:CG1	2.42	0.49
1:A:986:PRO:O	1:A:990:GLN:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1119:LYS:NZ	1:A:1256:TRP:HZ2	2.10	0.49
1:A:1389:VAL:O	1:A:1389:VAL:HG12	2.12	0.49
1:A:1469:PRO:HA	1:A:1472:SER:CB	2.42	0.49
1:A:1574:ASN:CB	1:A:1582:LEU:HD21	2.40	0.49
1:A:2393:LEU:HD13	1:A:2426:HIS:CD2	2.46	0.49
1:A:2439:ILE:C	1:A:2441:LYS:H	2.20	0.49
1:A:3005:LEU:O	1:A:3180:ASP:OD2	2.30	0.49
1:A:3012:GLU:HB2	1:A:3050:LYS:NZ	2.27	0.49
1:A:3445:LEU:O	1:A:3449:LYS:NZ	2.42	0.49
1:B:319:PHE:O	1:B:323:VAL:HG23	2.12	0.49
1:B:533:HIS:O	1:B:537:SER:HB3	2.13	0.49
1:B:941:MSE:HE3	1:B:958:MSE:HG3	1.95	0.49
1:B:1010:LEU:HD13	1:B:1028:PHE:CE1	2.28	0.49
1:B:1907:GLU:O	1:B:1911:LEU:HG	2.11	0.49
1:B:2328:ARG:O	1:B:2332:GLU:HG2	2.13	0.49
1:B:3110:PHE:C	1:B:3114:TYR:HD1	2.20	0.49
1:B:3326:GLN:CB	1:B:3393:GLU:HG2	2.38	0.49
1:B:3493:TRP:CD1	1:B:3710:LYS:O	2.65	0.49
1:B:3923:ARG:HB3	1:B:3962:ARG:HH12	1.78	0.49
1:A:86:LEU:HD13	1:A:134:LEU:CD2	2.42	0.49
1:A:318:SER:O	1:A:321:LYS:HB2	2.12	0.49
1:A:390:GLN:NE2	1:A:1723:PRO:HG2	2.28	0.49
1:A:481:THR:HG23	1:A:559:SER:OG	2.13	0.49
1:A:680:ILE:HG12	1:A:701:TYR:CE1	2.48	0.49
1:A:1121:LEU:HG	1:A:1122:GLY:H	1.75	0.49
1:A:1491:ILE:N	1:A:1497:ARG:HH12	2.10	0.49
1:A:1751:GLU:OE2	1:A:1884:LEU:HD13	2.11	0.49
1:A:1811:ARG:O	1:A:1815:THR:HG23	2.12	0.49
1:A:2280:VAL:HG13	1:A:2287:PRO:HB2	1.93	0.49
1:A:2420:PHE:CE1	1:A:2439:ILE:HG21	2.46	0.49
1:A:2808:LEU:C	1:A:2811:SER:HG	2.19	0.49
1:A:2927:ALA:HB2	1:A:3121:LEU:HD22	1.93	0.49
1:A:3174:ASP:N	1:A:3175:PRO:HD2	2.17	0.49
1:A:3620:PRO:HB3	1:A:3633:ILE:HD12	1.94	0.49
1:B:103:TYR:O	1:B:107:ILE:HG13	2.13	0.49
1:B:334:HIS:O	1:B:338:LEU:HD11	2.12	0.49
1:B:560:LEU:HD11	1:B:645:TRP:HZ2	1.74	0.49
1:B:954:GLY:O	1:B:957:PRO:HD2	2.11	0.49
1:B:1086:TYR:CE2	1:B:1090:ARG:HG2	2.48	0.49
1:B:1139:GLU:HG3	1:B:1175:HIS:CD2	2.47	0.49
1:B:1702:LEU:O	1:B:1706:SER:CB	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2193:ILE:HA	1:B:2196:TRP:CE2	2.48	0.49
1:B:2847:THR:HB	1:B:2850:PHE:CD2	2.47	0.49
1:B:3163:THR:OG1	1:B:3167:ARG:NH2	2.43	0.49
1:B:3323:PHE:CE1	1:B:3324:ARG:HG3	2.48	0.49
1:A:396:PHE:CG	1:A:397:LEU:N	2.80	0.49
1:A:745:VAL:HG11	1:A:776:TRP:HZ2	1.78	0.49
1:A:767:GLU:CG	1:A:851:ILE:HD11	2.40	0.49
1:A:808:GLU:OE1	1:A:3114:TYR:HB3	2.13	0.49
1:A:1155:ARG:HH12	1:A:1159:PRO:CD	2.21	0.49
1:A:1158:PRO:HB2	1:A:1159:PRO:HD3	1.95	0.49
1:A:1475:LEU:O	1:A:1478:SER:HB3	2.13	0.49
1:A:1808:ASP:OD1	1:A:1809:ASP:N	2.45	0.49
1:A:2027:SER:HB2	1:A:2030:TYR:OH	2.12	0.49
1:A:2227:LYS:C	1:A:2229:ALA:H	2.21	0.49
1:A:2944:THR:HG21	1:A:2983:ASP:OD2	2.12	0.49
1:B:407:VAL:O	1:B:449:TYR:HE1	1.95	0.49
1:B:437:HIS:CD2	1:B:438:LEU:N	2.80	0.49
1:B:604:PRO:HG2	1:B:607:ASP:OD1	2.13	0.49
1:B:638:GLN:HG3	1:B:667:TYR:CD2	2.48	0.49
1:B:708:VAL:HG22	1:B:744:ASP:OD2	2.12	0.49
1:B:855:VAL:HG12	1:B:859:LEU:HD11	1.93	0.49
1:B:964:ARG:O	1:B:967:PRO:HD2	2.11	0.49
1:B:977:ASP:HB3	1:B:981:ARG:N	2.26	0.49
1:B:978:GLN:HA	1:B:981:ARG:NE	2.21	0.49
1:B:1645:VAL:HG22	1:B:1709:GLU:OE1	2.13	0.49
1:B:1945:TYR:CD1	1:B:1948:ALA:HB3	2.47	0.49
1:B:2094:MSE:O	1:B:2098:THR:HG23	2.13	0.49
1:B:2358:ASP:O	1:B:2361:ILE:HG22	2.12	0.49
1:B:2423:VAL:HG22	1:B:2424:MSE:N	2.27	0.49
1:B:2806:LYS:NZ	1:B:2858:ILE:HG13	2.26	0.49
1:B:2913:LYS:O	1:B:2915:ARG:N	2.45	0.49
1:B:3259:LEU:HD21	1:B:3279:SER:HB2	1.94	0.49
1:B:3636:PHE:C	1:B:3638:LYS:N	2.71	0.49
1:B:3696:ARG:HB2	1:B:3699:LEU:HB2	1.95	0.49
1:B:3825:LYS:HB2	1:B:3829:LEU:HD13	1.93	0.49
1:A:203:GLU:O	1:A:207:GLN:CB	2.55	0.49
1:A:704:PHE:O	1:A:707:PHE:HB2	2.11	0.49
1:A:871:LEU:HD11	1:A:3122:HIS:CE1	2.42	0.49
1:A:1060:PHE:HB3	1:A:1064:TYR:HE2	1.78	0.49
1:A:2320:ALA:CA	1:A:2367:VAL:HG23	2.42	0.49
1:A:2352:HIS:CD2	1:A:2364:LEU:HD21	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2960:GLU:HG3	1:A:3289:ARG:HH22	1.77	0.49
1:A:3356:ALA:CB	1:A:3384:HIS:HB3	2.43	0.49
1:B:63:PHE:CE1	1:B:89:LEU:HD22	2.47	0.49
1:B:352:VAL:HG23	1:B:357:LYS:H	1.77	0.49
1:B:903:PRO:O	1:B:905:ILE:HG13	2.12	0.49
1:B:992:ILE:HD13	1:B:1031:ARG:HB3	1.95	0.49
1:B:1107:TYR:O	1:B:1111:LEU:N	2.40	0.49
1:B:2093:CYS:C	1:B:2096:PRO:HD2	2.37	0.49
1:B:2452:ARG:HG2	1:B:2498:ILE:HD11	1.94	0.49
1:B:3266:SER:HB2	1:B:3271:ASP:OD1	2.12	0.49
1:B:3793:VAL:O	1:B:3795:PRO:HD3	2.12	0.49
1:A:21:ALA:HA	1:A:24:ARG:HG3	1.94	0.49
1:A:892:LEU:H	1:A:907:LEU:HD22	1.78	0.49
1:A:899:ARG:HH22	1:A:2570:PRO:CB	2.25	0.49
1:A:933:LEU:HD22	1:A:2795:GLN:HA	1.93	0.49
1:A:1102:GLU:O	1:A:1105:VAL:HG13	2.13	0.49
1:A:1643:MSE:O	1:A:1646:LEU:N	2.46	0.49
1:A:2097:LEU:HA	1:A:2100:LEU:HB3	1.94	0.49
1:A:2148:LYS:NZ	1:A:2188:GLU:HG2	2.27	0.49
1:A:2511:ILE:HA	1:A:2519:LEU:HD12	1.94	0.49
1:A:2542:LEU:HD12	1:A:2543:ASN:N	2.28	0.49
1:A:2567:SER:O	1:A:2571:ASP:HB2	2.11	0.49
1:A:3152:SER:HB2	1:A:3155:VAL:HB	1.94	0.49
1:B:388:LEU:HG	1:B:420:VAL:HG21	1.94	0.49
1:B:479:ILE:O	1:B:483:VAL:HG13	2.12	0.49
1:B:789:TYR:CD2	1:B:865:GLN:HG3	2.47	0.49
1:B:1033:ILE:HA	1:B:1036:PHE:CD2	2.48	0.49
1:B:1960:LYS:HA	1:B:1963:GLN:OE1	2.13	0.49
1:B:2222:HIS:O	1:B:2226:PRO:HD2	2.12	0.49
1:B:2854:PHE:CE1	1:B:2878:ALA:HA	2.48	0.49
1:B:2999:LEU:HD12	1:B:3002:TYR:CE2	2.46	0.49
1:B:3003:ASN:O	1:B:3006:ALA:N	2.46	0.49
1:B:3163:THR:O	1:B:3167:ARG:HB2	2.13	0.49
1:B:3501:HIS:O	1:B:3505:LEU:HD13	2.12	0.49
1:B:3667:LEU:HA	1:B:3670:MSE:HG2	1.92	0.49
1:B:3906:SER:O	1:B:3910:LEU:HD13	2.12	0.49
1:B:3972:LEU:C	1:B:3974:MSE:HG2	2.38	0.49
1:A:270:ALA:HA	1:A:273:ARG:HG2	1.95	0.49
1:A:729:CYS:HA	1:A:732:PHE:CE2	2.48	0.49
1:A:1044:ILE:O	1:A:1045:THR:OG1	2.28	0.49
1:A:1407:LYS:HG2	1:A:1462:GLY:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1583:MSE:HE1	1:A:1640:GLU:CD	2.37	0.49
1:A:2148:LYS:HZ2	1:A:2188:GLU:HG2	1.77	0.49
1:A:2245:TRP:HA	1:A:2245:TRP:CE3	2.48	0.49
1:A:2365:ASN:HA	1:A:2368:THR:HB	1.94	0.49
1:A:2412:TYR:CD2	1:A:2416:LYS:HG3	2.47	0.49
1:A:3052:LEU:HD13	1:A:3061:LEU:HG	1.94	0.49
1:A:3179:TRP:CZ2	1:A:3258:LEU:HG	2.46	0.49
1:A:3510:GLN:OE1	1:A:3513:ALA:HB2	2.13	0.49
1:A:3525:TYR:OH	1:A:3561:LYS:HB2	2.13	0.49
1:A:3885:ARG:HG3	1:A:3889:ARG:HD3	1.95	0.49
1:A:3929:MSE:O	1:A:3938:ILE:HG13	2.12	0.49
1:A:3966:GLN:HG2	1:A:4128:MSE:C	2.38	0.49
1:B:63:PHE:HD1	1:B:89:LEU:HD13	1.78	0.49
1:B:669:LEU:C	1:B:671:SER:N	2.70	0.49
1:B:712:LYS:O	1:B:716:VAL:HG23	2.13	0.49
1:B:1007:VAL:HA	1:B:1010:LEU:CD1	2.43	0.49
1:B:1220:LEU:O	1:B:1223:THR:OG1	2.26	0.49
1:B:1272:GLY:C	1:B:1274:ARG:H	2.21	0.49
1:B:1459:HIS:NE2	1:B:1509:GLN:O	2.46	0.49
1:B:1726:SER:HB2	1:B:1869:LYS:HD2	1.94	0.49
1:B:1751:GLU:O	1:B:1755:SER:N	2.42	0.49
1:B:3117:ILE:CD1	1:B:3125:ARG:HH11	2.06	0.49
1:B:3293:CYS:O	1:B:3297:VAL:HB	2.13	0.49
1:B:3570:ASP:O	1:B:3573:ASN:HB3	2.13	0.49
1:B:3657:SER:O	1:B:3660:ASN:HB2	2.13	0.49
1:B:3971:MSE:HE2	1:B:3976:GLU:OE2	2.13	0.49
1:A:442:GLN:HA	1:A:445:SER:OG	2.12	0.49
1:A:1115:HIS:O	1:A:1118:GLU:C	2.56	0.49
1:A:1139:GLU:HG3	1:A:1175:HIS:CD2	2.48	0.49
1:A:1684:LEU:HA	1:A:1687:HIS:HD2	1.77	0.49
1:A:2274:ILE:CD1	1:A:2314:GLU:HB3	2.43	0.49
1:A:3103:ILE:HD13	1:A:3139:GLN:OE1	2.13	0.49
1:A:3984:MSE:SE	1:A:4108:MSE:HE2	2.63	0.49
1:B:249:PHE:HB3	1:B:297:LEU:HD13	1.93	0.49
1:B:793:LEU:HA	1:B:796:LEU:HB2	1.94	0.49
1:B:891:ARG:HD2	1:B:905:ILE:HG12	1.94	0.49
1:B:1493:PRO:HG2	1:B:1495:ASP:HB2	1.94	0.49
1:B:2161:ALA:CB	1:B:2211:LEU:HD13	2.39	0.49
1:B:2357:GLU:OE1	1:B:2388:LYS:NZ	2.42	0.49
1:B:2778:GLY:O	1:B:2781:PRO:HD2	2.13	0.49
1:B:3522:THR:O	1:B:3526:PRO:HD3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3974:MSE:CG	1:B:3976:GLU:HB3	2.43	0.49
1:B:4041:ARG:HB2	1:B:4042:GLN:OE1	2.12	0.49
1:A:903:PRO:HD2	1:A:904:VAL:HG23	1.95	0.49
1:A:927:LYS:HD3	1:A:976:VAL:HG12	1.94	0.49
1:A:1113:LEU:HA	1:A:1116:ALA:HB3	1.94	0.49
1:A:1695:LEU:HA	1:A:1698:PHE:CE2	2.48	0.49
1:A:1762:MSE:HE3	1:A:1864:ASP:OD1	2.13	0.49
1:A:2167:PRO:C	1:A:2171:LEU:HB2	2.37	0.49
1:A:3045:ILE:O	1:A:3048:LYS:HE2	2.13	0.49
1:A:3186:ARG:HD3	1:A:3242:MSE:SE	2.63	0.49
1:A:3247:ARG:HH21	1:A:3277:VAL:HG23	1.78	0.49
1:A:3443:PRO:C	1:A:3445:LEU:H	2.20	0.49
1:A:3651:LEU:HA	1:A:3654:MSE:HB2	1.95	0.49
1:A:3962:ARG:NH1	1:A:4124:TRP:CH2	2.81	0.49
1:B:485:GLN:HA	1:B:488:ILE:HG12	1.94	0.49
1:B:567:GLU:HB3	1:B:606:SER:CB	2.43	0.49
1:B:990:GLN:HA	1:B:993:HIS:HD2	1.77	0.49
1:B:1102:GLU:CD	1:B:1150:LYS:HZ3	2.21	0.49
1:B:1219:PHE:O	1:B:1223:THR:HG23	2.13	0.49
1:B:2467:THR:HA	1:B:2470:ARG:HG3	1.93	0.49
1:B:2842:ARG:O	1:B:2846:THR:HG23	2.11	0.49
1:B:2887:PRO:CB	1:B:2922:ARG:HH11	2.11	0.49
1:B:3034:PRO:CG	1:B:3037:GLN:HB2	2.39	0.49
1:A:174:VAL:O	1:A:178:LEU:HG	2.13	0.48
1:A:181:LEU:HD13	1:A:189:MSE:HE2	1.95	0.48
1:A:321:LYS:C	1:A:325:ASN:HD22	2.20	0.48
1:A:366:TYR:C	1:A:369:PHE:HB3	2.36	0.48
1:A:760:LEU:HD23	1:A:803:SER:HB3	1.95	0.48
1:A:901:MSE:HE1	1:A:2539:LEU:CD2	2.43	0.48
1:A:925:GLN:OE1	1:A:925:GLN:N	2.39	0.48
1:A:2990:GLU:O	1:A:2994:TRP:HD1	1.96	0.48
1:A:3468:LEU:HD13	1:A:3483:MSE:HE1	1.93	0.48
1:A:3547:THR:HG21	1:A:3552:LYS:HB2	1.94	0.48
1:A:3648:GLY:O	1:A:3651:LEU:HB2	2.13	0.48
1:B:13:LEU:O	1:B:16:GLN:HG2	2.13	0.48
1:B:20:SER:HB2	1:B:65:LEU:HD22	1.95	0.48
1:B:613:HIS:O	1:B:617:PRO:HG2	2.13	0.48
1:B:1059:LEU:O	1:B:1063:LEU:HG	2.13	0.48
1:B:1959:LEU:CD1	1:B:1998:MSE:HE3	2.32	0.48
1:B:1976:LEU:HG	1:B:1978:PHE:H	1.77	0.48
1:B:2213:ASN:CG	1:B:2250:SER:HB2	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2602:UNK:CB	1:B:2793:PRO:HG3	2.43	0.48
1:B:3061:LEU:HD21	1:B:3089:LEU:HD13	1.95	0.48
1:B:3155:VAL:N	1:B:3156:PRO:HD2	2.28	0.48
1:B:3972:LEU:O	1:B:3974:MSE:HG2	2.13	0.48
1:B:4085:LYS:HA	1:B:4088:ASN:CB	2.43	0.48
1:A:14:ARG:HD2	1:A:2358:ASP:OD2	2.13	0.48
1:A:398:THR:HG22	1:A:1865:THR:HG21	1.94	0.48
1:A:531:PHE:CE2	1:A:619:ASP:HB2	2.47	0.48
1:A:1022:ASP:CG	1:A:1023:SER:H	2.21	0.48
1:A:1170:LYS:HD3	1:A:1267:TYR:CG	2.48	0.48
1:A:1722:PHE:H	1:A:1723:PRO:CD	2.26	0.48
1:A:1869:LYS:O	1:A:1873:TYR:HD1	1.96	0.48
1:A:2110:PRO:HB2	1:A:2111:PRO:HD3	1.95	0.48
1:A:2171:LEU:HG	1:A:2177:ASN:HD21	1.78	0.48
1:A:2193:ILE:HD11	1:A:2245:TRP:CZ2	2.48	0.48
1:A:3247:ARG:NH2	1:A:3277:VAL:HG23	2.27	0.48
1:A:3684:SER:HB3	1:A:3726:VAL:CG1	2.42	0.48
1:A:3950:THR:OG1	1:A:3957:GLU:O	2.22	0.48
1:A:3963:LEU:HG	1:A:3967:PHE:CE1	2.47	0.48
1:A:3974:MSE:HB3	1:A:3976:GLU:N	2.23	0.48
1:B:234:PHE:O	1:B:235:THR:OG1	2.27	0.48
1:B:280:SER:HB3	1:B:322:GLN:HB2	1.95	0.48
1:B:575:ILE:HG12	1:B:579:LEU:HB2	1.95	0.48
1:B:669:LEU:HD13	1:B:672:ILE:HD12	1.95	0.48
1:B:1238:GLN:NE2	1:B:1298:LEU:HG	2.28	0.48
1:B:1365:ASN:HA	1:B:1368:LEU:HD21	1.94	0.48
1:B:1996:VAL:CG1	1:B:2048:GLY:HA2	2.37	0.48
1:B:2027:SER:HB2	1:B:2030:TYR:HH	1.78	0.48
1:B:2164:TRP:C	1:B:2167:PRO:HD2	2.38	0.48
1:B:2322:VAL:O	1:B:2326:ILE:HG12	2.13	0.48
1:B:3228:SER:O	1:B:3231:ILE:HB	2.13	0.48
1:B:3284:SER:HA	1:B:3287:ARG:NE	2.09	0.48
1:B:3788:LEU:HD13	1:B:3907:SER:HA	1.96	0.48
1:B:3901:ARG:HG2	1:B:3901:ARG:NH1	2.27	0.48
1:B:4066:LEU:HG	1:B:4075:ARG:HA	1.95	0.48
1:A:583:LEU:HD23	1:A:592:GLU:OE2	2.13	0.48
1:A:848:LEU:HA	1:A:851:ILE:CD1	2.44	0.48
1:A:940:PHE:HZ	1:A:2791:ILE:HG21	1.73	0.48
1:A:1354:GLU:C	1:A:1356:TRP:H	2.21	0.48
1:A:2213:ASN:HB2	1:A:2250:SER:HB2	1.95	0.48
1:B:54:GLN:HG3	1:B:2394:LYS:HZ3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:249:PHE:O	1:B:253:LEU:HG	2.13	0.48
1:B:293:LEU:O	1:B:296:VAL:HG12	2.12	0.48
1:B:358:GLU:HG3	1:B:359:LEU:N	2.27	0.48
1:B:758:LEU:O	1:B:762:TYR:HB3	2.13	0.48
1:B:856:VAL:HG21	1:B:3110:PHE:CE1	2.48	0.48
1:B:884:VAL:HG22	1:B:888:ARG:HG2	1.95	0.48
1:B:892:LEU:HD12	1:B:892:LEU:O	2.13	0.48
1:B:996:THR:O	1:B:1042:LYS:HG2	2.12	0.48
1:B:1299:GLU:HA	1:B:1302:ALA:CB	2.44	0.48
1:B:1889:VAL:HG13	1:B:1900:PHE:CD2	2.48	0.48
1:B:2031:LEU:HB2	1:B:2033:ASP:CB	2.40	0.48
1:B:2059:PRO:O	1:B:2062:ALA:HB3	2.13	0.48
1:B:2291:GLN:NE2	1:B:2294:ILE:HG13	2.28	0.48
1:B:2299:TYR:O	1:B:2302:ALA:N	2.46	0.48
1:B:2387:PRO:O	1:B:2390:HIS:HB3	2.12	0.48
1:B:2459:VAL:HG11	1:B:2505:VAL:HG22	1.95	0.48
1:B:2549:LYS:HD2	1:B:2554:PHE:HB3	1.95	0.48
1:B:2851:PHE:O	1:B:2855:VAL:HG23	2.13	0.48
1:B:3398:PRO:HG2	1:B:3399:PRO:HD3	1.94	0.48
1:B:3989:ARG:HE	1:B:4100:GLU:CB	2.26	0.48
1:A:1001:PHE:CD1	1:A:1002:GLU:N	2.82	0.48
1:A:1029:CYS:CB	1:A:1085:ILE:HG13	2.43	0.48
1:A:1075:ARG:O	1:A:1078:ALA:HB3	2.14	0.48
1:A:1231:GLN:H	1:A:1232:PRO:HD3	1.78	0.48
1:A:1387:GLY:HA2	1:A:1392:MSE:SE	2.63	0.48
1:A:1889:VAL:HG22	1:A:1900:PHE:CE2	2.49	0.48
1:A:2122:LEU:HA	1:A:2127:LYS:HE2	1.96	0.48
1:A:2161:ALA:HB1	1:A:2211:LEU:HD13	1.95	0.48
1:A:2166:SER:N	1:A:2167:PRO:HD2	2.28	0.48
1:A:2778:GLY:O	1:A:2781:PRO:HD2	2.14	0.48
1:A:3020:ASP:HB3	1:A:3027:LEU:HD12	1.95	0.48
1:A:3612:ARG:O	1:A:3615:ALA:HB3	2.14	0.48
1:A:4117:LEU:HB3	1:A:4126:PRO:HB2	1.96	0.48
1:B:706:LEU:HA	1:B:709:LYS:HB2	1.94	0.48
1:B:793:LEU:HA	1:B:796:LEU:CG	2.43	0.48
1:B:1741:ASP:O	1:B:1745:LYS:HG3	2.14	0.48
1:B:1884:LEU:HB2	1:B:1885:PRO:HD3	1.95	0.48
1:B:2086:ASP:CB	1:B:2090:ARG:HH21	2.24	0.48
1:B:2148:LYS:HD3	1:B:2160:TYR:HE1	1.78	0.48
1:B:2227:LYS:HD2	1:B:2235:LEU:CG	2.35	0.48
1:B:2979:GLN:CD	1:B:2979:GLN:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3076:ALA:O	1:B:3080:LEU:HG	2.14	0.48
1:B:3498:TRP:NE1	1:B:3502:MSE:HB2	2.28	0.48
1:B:3764:VAL:O	1:B:3768:PHE:HD1	1.96	0.48
1:B:3972:LEU:O	1:B:3974:MSE:N	2.46	0.48
1:A:19:LEU:HA	1:A:22:ALA:HB3	1.95	0.48
1:A:49:ALA:O	1:A:53:LEU:HB2	2.12	0.48
1:A:88:PHE:O	1:A:91:ILE:HG13	2.13	0.48
1:A:322:GLN:HA	1:A:325:ASN:HB2	1.95	0.48
1:A:979:VAL:O	1:A:982:GLN:HB3	2.12	0.48
1:A:1389:VAL:O	1:A:1390:GLN:HB2	2.13	0.48
1:A:2196:TRP:CE2	1:A:2199:LEU:HD11	2.47	0.48
1:A:2241:LEU:HA	1:A:2244:CYS:SG	2.53	0.48
1:A:2386:LEU:HD13	1:A:2401:VAL:HA	1.95	0.48
1:A:2437:ASP:HB3	1:A:2472:GLN:HG2	1.95	0.48
1:A:2532:PRO:O	1:A:2565:MSE:HE2	2.14	0.48
1:A:3409:VAL:HB	1:A:3413:TYR:CE2	2.48	0.48
1:B:417:VAL:O	1:B:421:LEU:HG	2.14	0.48
1:B:629:PHE:CD2	1:B:668:LYS:HE2	2.48	0.48
1:B:741:ILE:O	1:B:743:LEU:N	2.46	0.48
1:B:1228:GLY:O	1:B:1282:LEU:HD11	2.14	0.48
1:B:1698:PHE:CD1	1:B:1699:PHE:N	2.82	0.48
1:B:1945:TYR:O	1:B:1946:ASN:C	2.56	0.48
1:B:2063:THR:HA	1:B:2066:PHE:HB2	1.95	0.48
1:B:2085:MSE:O	1:B:2088:LEU:HB3	2.13	0.48
1:B:2837:LEU:HD22	1:B:2868:LEU:CG	2.41	0.48
1:B:3045:ILE:HB	1:B:3048:LYS:HZ1	1.79	0.48
1:B:3420:CYS:SG	1:B:3421:ASP:N	2.86	0.48
1:B:3629:ARG:HH22	1:B:3638:LYS:HE3	1.78	0.48
1:B:3771:MSE:O	1:B:3775:LEU:HG	2.14	0.48
1:B:3881:ASP:HA	1:B:3884:LYS:HD2	1.96	0.48
1:A:65:LEU:HD23	1:A:68:PHE:CE1	2.48	0.48
1:A:978:GLN:HA	1:A:981:ARG:NE	2.23	0.48
1:A:1136:ARG:HG2	1:A:1171:TRP:CH2	2.48	0.48
1:A:1385:ASN:O	1:A:1389:VAL:HG23	2.13	0.48
1:A:1430:GLU:HA	1:A:1433:ALA:HB3	1.95	0.48
1:A:2357:GLU:CD	1:A:2388:LYS:HZ1	2.22	0.48
1:A:3464:LYS:CD	1:A:3467:ARG:HD2	2.43	0.48
1:A:3617:LEU:HD13	1:A:3644:PHE:CD2	2.49	0.48
1:A:3762:GLN:OE1	1:A:3795:PRO:HG3	2.13	0.48
1:A:3921:GLY:C	1:A:3923:ARG:N	2.71	0.48
1:A:4085:LYS:HA	1:A:4088:ASN:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:46:SER:H	1:B:51:LEU:HD13	1.78	0.48
1:B:361:ILE:HA	1:B:364:ARG:HG2	1.94	0.48
1:B:749:VAL:N	1:B:750:PRO:CD	2.77	0.48
1:B:757:LYS:HA	1:B:760:LEU:CD1	2.44	0.48
1:B:938:VAL:HG21	1:B:962:TYR:OH	2.13	0.48
1:B:1390:GLN:O	1:B:1393:ALA:HB3	2.14	0.48
1:B:1414:ILE:O	1:B:1418:HIS:HB2	2.13	0.48
1:B:1571:LEU:HD22	1:B:1600:MSE:HA	1.96	0.48
1:B:1890:HIS:NE2	1:B:1941:HIS:HA	2.29	0.48
1:B:2231:PHE:CE1	1:B:2233:HIS:HB2	2.49	0.48
1:B:2782:ASP:HA	1:B:2786:LYS:HB3	1.96	0.48
1:B:3319:ASN:O	1:B:3323:PHE:HD2	1.95	0.48
1:B:3427:GLU:OE1	1:B:3435:ASP:HB3	2.14	0.48
1:B:3495:PHE:CZ	1:B:3521:ILE:HG13	2.49	0.48
1:B:3538:GLU:HG2	1:B:3759:ARG:NH1	2.29	0.48
1:B:3575:LEU:HD21	1:B:3687:MSE:SE	2.63	0.48
1:B:3629:ARG:NH2	1:B:3634:GLN:HA	2.28	0.48
1:B:3981:TYR:O	1:B:3985:VAL:HG23	2.14	0.48
1:A:295:GLU:HA	1:A:298:LEU:HD12	1.96	0.48
1:A:358:GLU:N	1:A:361:ILE:HG23	2.29	0.48
1:A:449:TYR:CZ	1:A:457:CYS:SG	3.05	0.48
1:A:1340:ARG:NH1	1:A:1343:GLU:HG2	2.29	0.48
1:A:1465:HIS:HA	1:A:1469:PRO:HD2	1.95	0.48
1:A:2230:VAL:HB	1:A:2234:ASN:HD21	1.79	0.48
1:A:2467:THR:HB	1:A:2518:GLN:NE2	2.16	0.48
1:A:2890:ILE:CG2	1:A:2922:ARG:HH12	2.23	0.48
1:A:3454:LEU:HD12	1:A:3490:VAL:HG11	1.95	0.48
1:B:86:LEU:HD13	1:B:134:LEU:HD21	1.95	0.48
1:B:901:MSE:HE1	1:B:2535:THR:HG21	1.96	0.48
1:B:1007:VAL:O	1:B:1011:GLU:CB	2.61	0.48
1:B:1055:ASN:HA	1:B:1059:LEU:HG	1.94	0.48
1:B:1080:LEU:HB2	1:B:1131:ILE:HG22	1.94	0.48
1:B:1165:LEU:HB3	1:B:1169:VAL:HG23	1.96	0.48
1:B:1387:GLY:HA2	1:B:1392:MSE:HB2	1.94	0.48
1:B:1692:ALA:O	1:B:1695:LEU:HB2	2.14	0.48
1:B:1711:ARG:O	1:B:1715:GLU:HG3	2.12	0.48
1:B:1946:ASN:O	1:B:1949:ILE:N	2.35	0.48
1:B:1970:LYS:HB3	1:B:1971:PRO:HD3	1.95	0.48
1:B:1978:PHE:O	1:B:1981:LEU:HB3	2.13	0.48
1:B:2462:VAL:HB	1:B:2473:MSE:SE	2.63	0.48
1:B:2926:LEU:HD12	1:B:3123:GLN:CD	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3463:LEU:HD21	1:B:4001:THR:HA	1.96	0.48
1:B:3582:GLU:HB2	1:B:3674:SER:OG	2.14	0.48
1:B:3675:LYS:N	1:B:3676:PRO:HD2	2.29	0.48
1:B:3916:TRP:HE3	1:B:3917:ILE:HD12	1.77	0.48
1:A:440:VAL:HG12	1:A:483:VAL:HG12	1.94	0.48
1:A:634:LEU:HD22	1:A:667:TYR:HD1	1.79	0.48
1:A:722:LYS:HB3	1:A:727:ALA:CA	2.44	0.48
1:A:883:TYR:CE2	1:A:961:LEU:HD12	2.49	0.48
1:A:1066:LEU:HA	1:A:1069:HIS:CD2	2.49	0.48
1:A:1080:LEU:HD13	1:A:1127:CYS:HB3	1.96	0.48
1:A:1086:TYR:HE2	1:A:1090:ARG:NE	2.08	0.48
1:A:1105:VAL:HB	1:A:1153:LEU:HD22	1.95	0.48
1:A:1651:LYS:HD2	1:A:1684:LEU:CG	2.44	0.48
1:A:1737:ASN:O	1:A:1739:TYR:N	2.44	0.48
1:A:2224:PHE:CE2	1:A:2259:LYS:HD3	2.48	0.48
1:A:2467:THR:CB	1:A:2518:GLN:HE22	2.17	0.48
1:A:2890:ILE:HD13	1:A:2922:ARG:HH12	1.78	0.48
1:A:2911:ARG:CG	1:A:2914:ALA:HB3	2.43	0.48
1:A:2970:LYS:NZ	1:A:3013:TYR:OH	2.44	0.48
1:A:3806:LEU:O	1:A:3809:THR:HG22	2.14	0.48
1:A:3917:ILE:O	1:A:4048:LYS:NZ	2.46	0.48
1:B:345:PHE:O	1:B:349:ILE:HG13	2.13	0.48
1:B:429:GLU:OE2	1:B:1595:ALA:HB2	2.13	0.48
1:B:645:TRP:CZ3	1:B:659:ARG:CB	2.97	0.48
1:B:657:SER:C	1:B:733:LEU:HD13	2.38	0.48
1:B:994:TRP:HA	1:B:994:TRP:CE3	2.48	0.48
1:B:1306:ILE:CG1	1:B:1334:LYS:HB3	2.42	0.48
1:B:1916:ILE:HG23	1:B:1920:TYR:CE1	2.49	0.48
1:B:2073:ASP:N	1:B:2074:PRO:CD	2.77	0.48
1:B:2142:ILE:HG12	1:B:2145:PHE:CE2	2.49	0.48
1:B:2164:TRP:HH2	1:B:2190:VAL:HG12	1.79	0.48
1:B:2304:VAL:HG13	1:B:2348:GLN:NE2	2.28	0.48
1:B:2915:ARG:HH11	1:B:2915:ARG:HG3	1.78	0.48
1:B:3145:ILE:HG12	1:B:3196:LYS:HG2	1.95	0.48
1:B:3175:PRO:HG2	1:B:3178:ILE:HD11	1.95	0.48
1:B:3443:PRO:C	1:B:3445:LEU:H	2.21	0.48
1:B:3682:GLU:C	1:B:3685:PRO:HD2	2.38	0.48
1:B:3825:LYS:HD2	1:B:3829:LEU:HA	1.95	0.48
1:B:3835:PRO:HA	1:B:3871:PHE:CE1	2.47	0.48
1:B:3913:ILE:O	1:B:3917:ILE:HD13	2.14	0.48
1:A:185:HIS:O	1:A:186:PRO:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:280:SER:O	1:A:322:GLN:HG2	2.14	0.48
1:A:403:GLY:C	1:A:405:ASP:N	2.71	0.48
1:A:509:ARG:CB	1:A:729:CYS:SG	3.02	0.48
1:A:542:ASP:HA	1:A:545:LEU:CD1	2.44	0.48
1:A:611:ASN:O	1:A:614:PRO:HD2	2.13	0.48
1:A:889:GLU:OE2	1:A:950:GLU:HG2	2.13	0.48
1:A:1042:LYS:HE3	1:A:1044:ILE:HG21	1.95	0.48
1:A:1072:ALA:CB	1:A:1114:ALA:HB1	2.44	0.48
1:A:1165:LEU:O	1:A:1168:LEU:N	2.46	0.48
1:A:1175:HIS:O	1:A:1178:ARG:HB3	2.13	0.48
1:A:1434:VAL:HB	1:A:1448:LEU:HD11	1.94	0.48
1:A:2193:ILE:CD1	1:A:2245:TRP:CZ2	2.97	0.48
1:A:2232:ARG:NH2	1:A:2313:LYS:NZ	2.62	0.48
1:A:2256:ILE:HG12	1:A:2276:LEU:HD21	1.96	0.48
1:A:2820:MSE:HE3	1:A:2829:LYS:HB3	1.96	0.48
1:A:3979:LEU:C	1:A:3981:TYR:N	2.71	0.48
1:B:19:LEU:HA	1:B:22:ALA:HB3	1.96	0.48
1:B:39:GLY:O	1:B:43:VAL:HG23	2.13	0.48
1:B:231:LEU:HD23	1:B:234:PHE:HB3	1.94	0.48
1:B:446:PHE:HD2	1:B:533:HIS:CB	2.25	0.48
1:B:641:PHE:CZ	1:B:645:TRP:NE1	2.82	0.48
1:B:929:ALA:O	1:B:933:LEU:CB	2.62	0.48
1:B:1109:GLU:O	1:B:1113:LEU:HB3	2.14	0.48
1:B:1303:MSE:O	1:B:1307:ILE:HG13	2.13	0.48
1:B:1354:GLU:C	1:B:1356:TRP:H	2.22	0.48
1:B:1476:HIS:CE1	1:B:1507:CYS:HA	2.49	0.48
1:B:1574:ASN:CB	1:B:1582:LEU:HD21	2.42	0.48
1:B:1756:PRO:C	1:B:1758:LEU:N	2.71	0.48
1:B:1885:PRO:O	1:B:1886:LYS:C	2.57	0.48
1:B:1923:PHE:HE2	1:B:1927:MSE:HE1	1.79	0.48
1:B:2146:LEU:HD22	1:B:2149:LEU:HD11	1.95	0.48
1:B:2482:ASP:CG	1:B:2485:ARG:HH21	2.21	0.48
1:B:3460:GLU:HA	1:B:3463:LEU:HD12	1.96	0.48
1:B:4121:TRP:CG	1:B:4122:GLU:H	2.31	0.48
1:A:290:TYR:CD1	1:A:293:LEU:HD13	2.48	0.48
1:A:1723:PRO:O	1:A:1725:GLN:N	2.47	0.48
1:A:1984:LEU:HD12	1:A:1985:LYS:N	2.29	0.48
1:A:2004:TYR:CE1	1:A:2054:TYR:O	2.67	0.48
1:A:2328:ARG:O	1:A:2332:GLU:HG3	2.13	0.48
1:A:2549:LYS:HZ1	1:A:2557:LEU:HB2	1.79	0.48
1:A:2854:PHE:HZ	1:A:2881:LEU:HB2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2979:GLN:O	1:A:2982:VAL:HG22	2.14	0.48
1:A:3008:TRP:CG	1:A:3257:LYS:NZ	2.81	0.48
1:A:3326:GLN:CB	1:A:3393:GLU:HG2	2.37	0.48
1:A:3759:ARG:C	1:A:3761:ASP:H	2.21	0.48
1:A:3806:LEU:HG	1:A:3807:GLU:O	2.13	0.48
1:A:3900:LEU:HD11	1:A:3934:THR:O	2.13	0.48
1:A:3980:MSE:HA	1:A:3983:ILE:HG13	1.94	0.48
1:B:1025:LEU:HA	1:B:1025:LEU:HD12	1.60	0.48
1:B:1087:ARG:CD	1:B:1134:LEU:HD22	2.44	0.48
1:B:1253:THR:HA	1:B:1257:LEU:HD12	1.95	0.48
1:B:2222:HIS:O	1:B:2224:PHE:N	2.47	0.48
1:B:2912:GLY:HA2	1:B:2915:ARG:NH2	2.28	0.48
1:B:2913:LYS:HG3	1:B:2914:ALA:H	1.76	0.48
1:B:3571:PHE:O	1:B:3575:LEU:HB3	2.13	0.48
1:B:3758:LEU:HD22	1:B:3761:ASP:OD2	2.13	0.48
1:B:3816:LEU:HD11	1:B:3883:LEU:HD22	1.96	0.48
1:B:3862:ALA:O	1:B:3865:THR:OG1	2.27	0.48
1:A:65:LEU:O	1:A:69:VAL:HB	2.14	0.47
1:A:157:TYR:HA	1:A:160:LEU:HG	1.96	0.47
1:A:595:ASP:CG	1:A:1026:ARG:HG3	2.39	0.47
1:A:1762:MSE:SE	1:A:1867:ILE:HG21	2.64	0.47
1:A:1918:LEU:HD11	1:A:1957:ASN:ND2	2.29	0.47
1:A:2074:PRO:CB	1:A:2136:PRO:HB3	2.43	0.47
1:A:2358:ASP:OD1	1:A:2358:ASP:N	2.46	0.47
1:A:2390:HIS:ND1	1:A:2397:CYS:SG	2.64	0.47
1:A:3425:ARG:NH1	1:A:3999:THR:HG22	2.29	0.47
1:A:3725:ARG:HH12	1:A:3737:ARG:NH2	2.11	0.47
1:B:76:ILE:HG13	1:B:77:GLU:H	1.79	0.47
1:B:173:LYS:O	1:B:174:VAL:C	2.57	0.47
1:B:645:TRP:CZ3	1:B:659:ARG:HB3	2.49	0.47
1:B:942:LEU:HD11	1:B:991:LEU:CD1	2.44	0.47
1:B:989:MSE:HB2	1:B:990:GLN:NE2	2.29	0.47
1:B:1018:VAL:HB	1:B:1074:LYS:CA	2.44	0.47
1:B:1036:PHE:CZ	1:B:1082:PHE:CE2	3.02	0.47
1:B:1268:ASN:HA	1:B:1271:ILE:HD12	1.95	0.47
1:B:1946:ASN:HA	1:B:1949:ILE:HG22	1.96	0.47
1:B:2193:ILE:HG13	1:B:2196:TRP:CZ2	2.49	0.47
1:B:2382:VAL:CG2	1:B:2404:ARG:HG3	2.40	0.47
1:B:2538:ARG:HG3	1:B:2539:LEU:N	2.28	0.47
1:B:2782:ASP:HA	1:B:2786:LYS:CB	2.44	0.47
1:B:3003:ASN:ND2	1:B:3010:SER:HB2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3110:PHE:HB2	1:B:3114:TYR:HE1	1.78	0.47
1:B:3136:THR:O	1:B:3140:GLU:HB2	2.14	0.47
1:B:3268:THR:H	1:B:3271:ASP:HB3	1.79	0.47
1:B:3503:VAL:HG21	1:B:3535:ILE:C	2.39	0.47
1:B:3525:TYR:HA	1:B:3529:ILE:HG21	1.96	0.47
1:B:3531:TYR:HB3	1:B:3532:PRO:HD3	1.95	0.47
1:B:3789:ARG:CZ	1:B:3806:LEU:HD22	2.44	0.47
1:B:3896:ALA:O	1:B:3899:ALA:HB3	2.14	0.47
1:B:4062:ASP:HA	1:B:4065:LEU:CD2	2.44	0.47
1:A:31:GLY:HA3	1:A:81:CYS:SG	2.54	0.47
1:A:290:TYR:O	1:A:294:PHE:HD1	1.97	0.47
1:A:335:LYS:HA	1:A:338:LEU:HD12	1.94	0.47
1:A:419:SER:O	1:A:422:LEU:HB2	2.15	0.47
1:A:935:HIS:NE2	1:A:987:LEU:HG	2.29	0.47
1:A:1073:PHE:CZ	1:A:3745:GLU:HA	2.49	0.47
1:A:1716:GLN:O	1:A:1719:VAL:N	2.40	0.47
1:A:1733:THR:N	1:A:1734:PRO:CD	2.77	0.47
1:A:2291:GLN:NE2	1:A:2294:ILE:HG21	2.29	0.47
1:A:3493:TRP:CZ3	1:A:3496:ILE:HG13	2.49	0.47
1:A:3954:PRO:HG3	1:A:4030:GLU:HB2	1.95	0.47
1:B:58:VAL:O	1:B:62:ASP:HB2	2.14	0.47
1:B:650:SER:HA	1:B:652:GLU:OE2	2.13	0.47
1:B:659:ARG:HH12	1:B:662:LEU:CD2	2.28	0.47
1:B:922:SER:O	1:B:926:THR:OG1	2.28	0.47
1:B:1438:GLY:O	1:B:1441:ALA:HB2	2.14	0.47
1:B:1869:LYS:O	1:B:1873:TYR:HD1	1.96	0.47
1:B:2420:PHE:HZ	1:B:2436:LEU:HB3	1.76	0.47
1:B:2482:ASP:HA	1:B:2485:ARG:HB3	1.95	0.47
1:B:2911:ARG:O	1:B:2915:ARG:NE	2.47	0.47
1:B:3522:THR:HA	1:B:3525:TYR:HB3	1.96	0.47
1:B:3842:TRP:HH2	1:B:3846:MSE:HE2	1.73	0.47
1:A:292:SER:O	1:A:296:VAL:HB	2.14	0.47
1:A:2960:GLU:HA	1:A:3251:ASN:O	2.14	0.47
1:A:3301:LEU:HB2	1:A:3328:ILE:CG2	2.44	0.47
1:A:3493:TRP:CE3	1:A:3713:PRO:HB3	2.49	0.47
1:A:3606:ILE:HD13	1:A:3609:MSE:HE3	1.96	0.47
1:B:187:SER:O	1:B:190:ILE:HG22	2.13	0.47
1:B:634:LEU:O	1:B:669:LEU:HD12	2.14	0.47
1:B:714:VAL:HG11	1:B:734:LEU:HD21	1.96	0.47
1:B:993:HIS:ND1	1:B:993:HIS:C	2.73	0.47
1:B:1111:LEU:HD22	1:B:1131:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1397:ASP:O	1:B:1400:VAL:HB	2.13	0.47
1:B:1501:PRO:O	1:B:1505:LEU:HB2	2.14	0.47
1:B:2440:TYR:O	1:B:2440:TYR:CG	2.67	0.47
1:B:3334:TYR:CE1	1:B:3426:LYS:HD3	2.49	0.47
1:B:3797:THR:CG2	1:B:3800:LEU:HG	2.43	0.47
1:B:4057:ALA:C	1:B:4059:ILE:N	2.69	0.47
1:A:14:ARG:HH12	1:A:2392:VAL:HG21	1.79	0.47
1:A:69:VAL:O	1:A:73:LEU:HG	2.13	0.47
1:A:368:LEU:CA	1:A:372:PRO:HG2	2.44	0.47
1:A:403:GLY:O	1:A:405:ASP:N	2.44	0.47
1:A:455:LEU:O	1:A:459:ARG:HG3	2.15	0.47
1:A:718:MSE:O	1:A:722:LYS:HB2	2.15	0.47
1:A:892:LEU:HD21	1:A:958:MSE:HG3	1.96	0.47
1:A:1970:LYS:HZ1	1:A:2018:ASP:N	2.13	0.47
1:A:2003:LYS:HG2	1:A:2006:GLU:OE1	2.14	0.47
1:A:2776:ARG:HA	1:A:2776:ARG:CZ	2.44	0.47
1:A:2841:ASN:OD1	1:A:2844:LEU:HD12	2.15	0.47
1:A:2917:PRO:HB2	1:A:2918:PRO:HD3	1.95	0.47
1:A:2940:ARG:HD3	1:A:3975:LYS:CD	2.44	0.47
1:A:3487:ILE:HG21	1:A:3524:ASN:HD21	1.78	0.47
1:A:3878:VAL:HB	1:A:3879:PRO:HD3	1.96	0.47
1:B:411:PRO:O	1:B:415:GLN:CB	2.62	0.47
1:B:612:LEU:HD21	1:B:1800:SER:HB3	1.96	0.47
1:B:887:ASP:O	1:B:3889:ARG:NE	2.47	0.47
1:B:927:LYS:O	1:B:931:CYS:SG	2.73	0.47
1:B:1080:LEU:HB2	1:B:1131:ILE:CG2	2.45	0.47
1:B:1574:ASN:CG	1:B:1582:LEU:HD21	2.40	0.47
1:B:2155:GLU:HB3	1:B:2156:VAL:H	1.40	0.47
1:B:2186:VAL:O	1:B:2190:VAL:HG13	2.13	0.47
1:B:2200:ALA:CA	1:B:2203:THR:HG22	2.41	0.47
1:B:2212:ALA:O	1:B:2215:LEU:HB3	2.15	0.47
1:B:2257:PHE:CE1	1:B:2299:TYR:HB3	2.49	0.47
1:B:3498:TRP:HD1	1:B:3502:MSE:HB2	1.77	0.47
1:B:3514:VAL:HG21	1:B:3551:ASN:HB3	1.95	0.47
1:B:3839:TYR:HB2	1:B:3871:PHE:CE1	2.49	0.47
1:B:3881:ASP:OD1	1:B:3884:LYS:NZ	2.47	0.47
1:A:749:VAL:N	1:A:750:PRO:HD3	2.30	0.47
1:A:1216:GLY:HA3	1:A:1271:ILE:CG2	2.45	0.47
1:A:1292:LYS:H	1:A:1292:LYS:HG3	1.52	0.47
1:A:1809:ASP:HA	1:A:1815:THR:HA	1.96	0.47
1:A:3008:TRP:CE3	1:A:3050:LYS:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3114:TYR:CE2	1:A:3125:ARG:NH2	2.83	0.47
1:A:3775:LEU:HB3	1:A:3781:CYS:SG	2.53	0.47
1:A:3834:ALA:HB1	1:A:3838:GLU:OE1	2.14	0.47
1:B:205:LYS:HE3	1:B:243:GLN:HB3	1.96	0.47
1:B:428:PRO:O	1:B:430:VAL:HG23	2.14	0.47
1:B:539:GLN:HG3	1:B:626:LEU:O	2.14	0.47
1:B:801:LYS:HB2	1:B:805:LEU:HD12	1.96	0.47
1:B:927:LYS:HE3	1:B:928:VAL:HG13	1.96	0.47
1:B:1001:PHE:CD1	1:B:1002:GLU:N	2.81	0.47
1:B:1090:ARG:HH12	1:B:1096:VAL:CG1	2.22	0.47
1:B:1583:MSE:HE2	1:B:1639:LEU:C	2.40	0.47
1:B:2508:GLN:HG2	1:B:2508:GLN:O	2.14	0.47
1:B:2539:LEU:HG	1:B:2816:ILE:HG13	1.95	0.47
1:B:2603:UNK:CB	1:B:2793:PRO:HB2	2.44	0.47
1:B:2943:PHE:C	1:B:2945:SER:N	2.73	0.47
1:B:3128:LYS:O	1:B:3132:VAL:HG13	2.14	0.47
1:B:3160:LEU:HD12	1:B:3160:LEU:HA	1.75	0.47
1:B:3564:GLN:C	1:B:3566:GLY:H	2.22	0.47
1:B:3820:MSE:O	1:B:3824:GLU:N	2.41	0.47
1:A:82:ARG:NH2	1:A:130:LEU:HD22	2.30	0.47
1:A:238:MSE:HG3	1:A:239:GLU:HG2	1.96	0.47
1:A:410:MSE:HE2	1:A:441:MSE:CE	2.44	0.47
1:A:977:ASP:O	1:A:980:THR:HB	2.14	0.47
1:A:1213:LYS:O	1:A:1215:GLU:N	2.48	0.47
1:A:1396:PRO:O	1:A:1400:VAL:HG23	2.14	0.47
1:A:2164:TRP:CH2	1:A:2190:VAL:HG12	2.49	0.47
1:A:2325:LEU:HG	1:A:2329:TYR:CD2	2.49	0.47
1:A:3034:PRO:C	1:A:3036:TYR:H	2.23	0.47
1:A:3524:ASN:O	1:A:3529:ILE:HD13	2.14	0.47
1:A:3719:ILE:HG23	1:A:3720:ALA:H	1.79	0.47
1:A:3846:MSE:O	1:A:3857:LEU:HD22	2.14	0.47
1:A:4077:TYR:CG	1:A:4119:ARG:NH1	2.82	0.47
2:K:215:UNK:O	2:K:219:UNK:N	2.48	0.47
1:B:324:SER:HB3	1:B:370:ALA:O	2.15	0.47
1:B:458:CYS:SG	1:B:540:MSE:SE	3.23	0.47
1:B:749:VAL:N	1:B:750:PRO:HD3	2.30	0.47
1:B:808:GLU:CD	1:B:3114:TYR:HB3	2.40	0.47
1:B:1290:LEU:HD12	1:B:1294:VAL:HG21	1.97	0.47
1:B:1570:GLU:HA	1:B:1573:LYS:HB3	1.96	0.47
1:B:1726:SER:CB	1:B:1866:GLN:HE22	2.27	0.47
1:B:2420:PHE:CZ	1:B:2424:MSE:HE3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2803:ILE:O	1:B:2803:ILE:HG12	2.14	0.47
1:B:2884:LEU:O	1:B:2888:VAL:HG23	2.15	0.47
1:B:2989:ALA:HB1	1:B:2993:PHE:CD2	2.49	0.47
1:B:3762:GLN:HA	1:B:3793:VAL:CG2	2.36	0.47
1:A:63:PHE:O	1:A:67:VAL:HG23	2.14	0.47
1:A:527:TYR:O	1:A:531:PHE:CE2	2.67	0.47
1:A:557:SER:O	1:A:560:LEU:HG	2.14	0.47
1:A:729:CYS:HA	1:A:732:PHE:CD2	2.50	0.47
1:A:1013:ILE:O	1:A:1016:GLY:N	2.48	0.47
1:A:1033:ILE:CG1	1:A:1089:PHE:HE2	2.27	0.47
1:A:1116:ALA:O	1:A:1119:LYS:HG2	2.14	0.47
1:A:1162:SER:H	1:A:1165:LEU:HD12	1.80	0.47
1:A:1689:LYS:O	1:A:1693:VAL:HG23	2.15	0.47
1:A:1715:GLU:HA	1:A:1718:ILE:HB	1.95	0.47
1:A:1816:ARG:HD3	1:A:1819:PHE:CE1	2.49	0.47
1:A:1879:VAL:O	1:A:1882:SER:HB3	2.15	0.47
1:A:2023:SER:HB2	1:A:2024:TYR:CD1	2.49	0.47
1:A:2136:PRO:C	1:A:2139:PRO:HD2	2.39	0.47
1:A:2216:LEU:HD13	1:A:2249:LEU:HD21	1.97	0.47
1:A:2224:PHE:HB3	1:A:2272:VAL:HG13	1.96	0.47
1:A:2257:PHE:CD1	1:A:2299:TYR:HB3	2.49	0.47
1:A:2313:LYS:HA	1:A:2316:TYR:CD2	2.50	0.47
1:A:2390:HIS:CE1	1:A:2397:CYS:HG	2.33	0.47
1:A:2462:VAL:HG11	1:A:2473:MSE:CE	2.44	0.47
1:A:2538:ARG:HD2	1:A:2562:LEU:HD22	1.96	0.47
1:A:2861:ILE:HD13	1:A:2889:GLY:HA2	1.96	0.47
1:A:2936:TYR:HD1	1:A:2949:THR:HG21	1.80	0.47
1:A:2936:TYR:HD2	1:A:3979:LEU:HD11	1.78	0.47
1:A:2939:LEU:HD21	1:A:2994:TRP:CD1	2.49	0.47
1:A:3090:TYR:O	1:A:3092:LEU:N	2.48	0.47
1:A:3284:SER:HB2	1:A:3287:ARG:HH21	1.79	0.47
1:A:3447:VAL:HG11	1:A:3475:TYR:OH	2.15	0.47
1:A:3741:ARG:HG2	1:A:3741:ARG:NH1	2.29	0.47
1:A:3757:ASP:OD2	1:A:3759:ARG:HD3	2.14	0.47
1:A:3820:MSE:CB	1:A:3882:LEU:HD13	2.44	0.47
1:A:4083:GLY:O	1:A:4088:ASN:ND2	2.44	0.47
1:A:4085:LYS:HA	1:A:4088:ASN:HB2	1.97	0.47
2:K:217:UNK:O	2:K:220:MSE:HG2	2.15	0.47
1:B:170:VAL:HG23	1:B:173:LYS:CE	2.44	0.47
1:B:356:ASN:CG	1:B:1859:ASN:H	2.23	0.47
1:B:367:GLY:C	1:B:369:PHE:N	2.69	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:766:ALA:C	1:B:768:VAL:H	2.17	0.47
1:B:895:ALA:HB2	1:B:904:VAL:HG21	1.96	0.47
1:B:966:PHE:CD1	1:B:969:LEU:HD13	2.50	0.47
1:B:1076:LEU:HD11	1:B:1114:ALA:CB	2.45	0.47
1:B:1270:PHE:HZ	1:B:1347:THR:C	2.23	0.47
1:B:1492:ALA:HB1	1:B:1493:PRO:CD	2.45	0.47
1:B:1705:GLY:HA2	1:B:1739:TYR:OH	2.15	0.47
1:B:1718:ILE:HA	1:B:1725:GLN:OE1	2.14	0.47
1:B:1737:ASN:O	1:B:1739:TYR:N	2.46	0.47
1:B:1760:GLU:HB2	1:B:1894:SER:HA	1.97	0.47
1:B:1945:TYR:OH	1:B:1959:LEU:HD12	2.15	0.47
1:B:2187:VAL:O	1:B:2190:VAL:HG22	2.14	0.47
1:B:2320:ALA:HA	1:B:2367:VAL:HG23	1.96	0.47
1:B:2549:LYS:HD2	1:B:2554:PHE:CB	2.44	0.47
1:B:2809:PHE:HB3	1:B:2859:GLN:OE1	2.14	0.47
1:B:2933:ILE:HG21	1:B:3976:GLU:HG3	1.96	0.47
1:B:3008:TRP:CD1	1:B:3009:LYS:H	2.33	0.47
1:B:3011:LEU:O	1:B:3014:CYS:HB2	2.14	0.47
1:B:3187:CYS:O	1:B:3190:LEU:N	2.48	0.47
1:B:3499:ILE:HG13	1:B:3531:TYR:OH	2.15	0.47
1:B:3503:VAL:HG23	1:B:3536:SER:HA	1.96	0.47
1:B:3792:SER:OG	1:B:3804:GLU:HB2	2.14	0.47
1:B:3834:ALA:H	1:B:3835:PRO:HD3	1.79	0.47
1:B:3887:PHE:CE1	1:B:3900:LEU:HB3	2.47	0.47
1:B:3919:GLY:N	1:B:3946:PHE:H	2.09	0.47
1:A:68:PHE:O	1:A:72:SER:OG	2.23	0.47
1:A:174:VAL:HG12	1:A:178:LEU:HD11	1.96	0.47
1:A:798:GLY:HA2	1:A:873:VAL:HG11	1.96	0.47
1:A:1729:PHE:CE2	1:A:1873:TYR:CE1	3.03	0.47
1:A:2134:GLY:H	1:A:2137:ILE:HD11	1.80	0.47
1:A:2404:ARG:NH1	1:A:2412:TYR:CE1	2.82	0.47
1:A:2430:GLU:OE2	1:A:2461:PHE:CD1	2.65	0.47
1:A:3420:CYS:HB2	1:A:3446:VAL:HG11	1.96	0.47
1:A:3467:ARG:CG	1:A:3471:ILE:HD12	2.45	0.47
1:A:3503:VAL:HG21	1:A:3535:ILE:C	2.40	0.47
1:A:3920:ILE:HG13	1:A:3923:ARG:CD	2.45	0.47
1:A:3944:HIS:CD2	1:A:4020:MSE:HE3	2.49	0.47
1:A:3985:VAL:HG22	1:A:4104:VAL:HG21	1.95	0.47
1:A:4069:GLU:OE2	1:A:4070:LYS:HG3	2.15	0.47
1:B:704:PHE:HA	1:B:707:PHE:CD1	2.50	0.47
1:B:858:MSE:O	1:B:861:SER:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1118:GLU:O	1:B:1120:SER:N	2.47	0.47
1:B:1330:TYR:O	1:B:1333:SER:OG	2.27	0.47
1:B:2385:LEU:HG	1:B:2389:PHE:CE2	2.49	0.47
1:B:3040:TYR:HA	1:B:3043:TYR:CD2	2.50	0.47
1:B:3122:HIS:O	1:B:3125:ARG:N	2.47	0.47
1:B:3247:ARG:HD3	1:B:3281:CYS:SG	2.55	0.47
1:B:3251:ASN:HD21	1:B:3254:LEU:HD13	1.80	0.47
1:B:3659:PHE:CD1	1:B:3662:ILE:HD12	2.50	0.47
1:A:205:LYS:O	1:A:208:MSE:HG2	2.15	0.47
1:A:241:ASP:HB2	1:A:282:PHE:HE2	1.80	0.47
1:A:257:ARG:H	1:A:258:PRO:HD2	1.78	0.47
1:A:384:MSE:O	1:A:385:TYR:HB3	2.15	0.47
1:A:649:PHE:C	1:A:651:TYR:N	2.73	0.47
1:A:667:TYR:O	1:A:669:LEU:N	2.47	0.47
1:A:776:TRP:CZ2	1:A:780:ILE:HD12	2.50	0.47
1:A:928:VAL:HG23	1:A:929:ALA:N	2.29	0.47
1:A:1036:PHE:CZ	1:A:1082:PHE:CE2	3.03	0.47
1:A:1131:ILE:HG12	1:A:1132:ASP:N	2.29	0.47
1:A:1701:SER:OG	1:A:1702:LEU:N	2.48	0.47
1:A:2891:ARG:HH21	1:A:3884:LYS:HD3	1.76	0.47
1:A:3080:LEU:HD13	1:A:3102:TYR:OH	2.15	0.47
1:A:3386:SER:HA	1:A:3389:VAL:HG12	1.97	0.47
1:A:3393:GLU:OE1	1:A:3416:LEU:HD23	2.15	0.47
1:A:3583:LEU:HD11	1:A:3733:ARG:CB	2.42	0.47
1:B:777:SER:HB2	1:B:858:MSE:HE1	1.97	0.47
1:B:943:GLY:O	1:B:945:ALA:N	2.45	0.47
1:B:963:LYS:HG3	1:B:1009:LEU:CD1	2.45	0.47
1:B:987:LEU:O	1:B:991:LEU:HD13	2.15	0.47
1:B:1036:PHE:HD1	1:B:1059:LEU:HD11	1.79	0.47
1:B:1068:LEU:HD11	1:B:1110:SER:OG	2.15	0.47
1:B:1302:ALA:O	1:B:1306:ILE:HB	2.15	0.47
1:B:2068:ARG:C	1:B:2070:GLU:H	2.23	0.47
1:B:2239:LYS:CG	1:B:2279:ILE:HD12	2.45	0.47
1:B:2254:ARG:HB2	1:B:2295:GLN:HB2	1.97	0.47
1:B:2379:MSE:HG2	1:B:2408:MSE:SE	2.65	0.47
1:B:2407:GLY:O	1:B:2409:THR:HG23	2.15	0.47
1:B:2987:THR:O	1:B:2990:GLU:HB2	2.14	0.47
1:B:3034:PRO:C	1:B:3036:TYR:H	2.23	0.47
1:B:3160:LEU:HB3	1:B:3164:TRP:CZ3	2.50	0.47
1:B:3243:ILE:HG23	1:B:3258:LEU:HD12	1.96	0.47
1:B:3244:ASP:O	1:B:3247:ARG:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3503:VAL:CG2	1:B:3536:SER:HA	2.45	0.47
1:B:3720:ALA:HB2	1:B:3743:HIS:HB2	1.96	0.47
1:B:3944:HIS:ND1	1:B:3949:ALA:HA	2.29	0.47
1:A:125:ILE:H	1:A:126:PRO:CD	2.28	0.47
1:A:474:VAL:HG11	1:A:1564:SER:HB2	1.97	0.47
1:A:544:ILE:O	1:A:548:GLU:HB2	2.14	0.47
1:A:927:LYS:O	1:A:931:CYS:SG	2.73	0.47
1:A:952:GLY:C	1:A:954:GLY:H	2.23	0.47
1:A:1251:GLN:HE21	1:A:1329:ARG:NH1	2.13	0.47
1:A:1292:LYS:O	1:A:1295:ALA:HB3	2.15	0.47
1:A:1335:CYS:SG	1:A:1382:ILE:HG21	2.55	0.47
1:A:1598:ASN:ND2	1:A:1811:ARG:HB3	2.30	0.47
1:A:1685:ASP:CB	1:A:1727:ARG:NH2	2.74	0.47
1:A:2260:PHE:HA	1:A:2273:GLY:HA3	1.96	0.47
1:A:2384:PHE:C	1:A:2387:PRO:HD2	2.39	0.47
1:A:2637:UNK:O	1:A:2641:UNK:CB	2.63	0.47
1:A:2856:SER:O	1:A:2859:GLN:HB3	2.15	0.47
1:A:3011:LEU:HD11	1:A:3043:TYR:O	2.15	0.47
1:A:3053:LEU:HD11	1:A:3187:CYS:HB3	1.96	0.47
1:A:3147:LYS:O	1:A:3151:LEU:N	2.48	0.47
1:A:3533:PHE:CD1	1:A:3562:LEU:HB3	2.50	0.47
1:B:133:LYS:O	1:B:137:THR:HG23	2.15	0.47
1:B:257:ARG:N	1:B:258:PRO:CD	2.77	0.47
1:B:260:ILE:O	1:B:264:ARG:HG2	2.15	0.47
1:B:912:PRO:HB2	1:B:913:ARG:CZ	2.45	0.47
1:B:1349:LEU:CA	1:B:1353:PRO:HD2	2.44	0.47
1:B:1350:ASN:HD22	1:B:1404:LYS:HE3	1.79	0.47
1:B:1583:MSE:SE	1:B:1643:MSE:SE	3.32	0.47
1:B:1952:ILE:HG12	1:B:1953:CYS:H	1.79	0.47
1:B:2097:LEU:CD2	1:B:2100:LEU:HD22	2.45	0.47
1:B:2970:LYS:O	1:B:2974:GLU:HG2	2.14	0.47
1:B:3284:SER:CA	1:B:3287:ARG:HE	2.12	0.47
1:B:3298:LEU:HD11	1:B:3351:ILE:CD1	2.45	0.47
1:B:3585:PHE:HE1	1:B:3617:LEU:HD11	1.79	0.47
1:B:3904:PHE:CE1	1:B:3967:PHE:HE1	2.32	0.47
1:B:3965:ARG:HE	1:B:3969:ASN:ND2	2.14	0.47
1:B:3981:TYR:HA	1:B:4108:MSE:HE1	1.96	0.47
1:B:4017:GLU:H	1:B:4017:GLU:CD	2.23	0.47
1:A:242:PRO:HD3	1:A:282:PHE:CE2	2.50	0.46
1:A:358:GLU:OE1	1:A:1858:LEU:HD13	2.15	0.46
1:A:443:ILE:HD11	1:A:465:PHE:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:ASP:HA	1:A:800:LEU:HB2	1.96	0.46
1:A:934:LEU:HD21	1:A:962:TYR:CZ	2.49	0.46
1:A:1059:LEU:O	1:A:1062:ARG:N	2.48	0.46
1:A:1372:LEU:HG	1:A:1373:VAL:N	2.29	0.46
1:A:1583:MSE:HE2	1:A:1639:LEU:HD13	1.97	0.46
1:A:1601:LEU:O	1:A:1605:PHE:HB2	2.14	0.46
1:A:1687:HIS:HB3	1:A:1691:GLN:NE2	2.30	0.46
1:A:2323:LEU:HD13	1:A:2371:PHE:CZ	2.50	0.46
1:A:2473:MSE:O	1:A:2476:ILE:HG12	2.14	0.46
1:A:2514:ASN:H	1:A:2515:PRO:CD	2.29	0.46
1:A:3620:PRO:HB2	1:A:3633:ILE:HG23	1.95	0.46
1:A:3699:LEU:O	1:A:3718:ARG:NH1	2.47	0.46
1:A:3887:PHE:HZ	1:A:3904:PHE:CD2	2.33	0.46
1:B:277:LEU:HD22	1:B:278:HIS:CD2	2.51	0.46
1:B:361:ILE:HB	1:B:364:ARG:NH2	2.30	0.46
1:B:670:LEU:HG	1:B:740:ILE:HG23	1.97	0.46
1:B:732:PHE:CE1	1:B:768:VAL:HG12	2.50	0.46
1:B:965:THR:HA	1:B:968:VAL:HG12	1.95	0.46
1:B:1563:PHE:CD1	1:B:1567:ILE:HG13	2.50	0.46
1:B:2404:ARG:NH1	1:B:2412:TYR:CE2	2.83	0.46
1:B:2439:ILE:HG21	1:B:2439:ILE:HD13	1.64	0.46
1:B:2554:PHE:O	1:B:2557:LEU:N	2.48	0.46
1:B:3345:PRO:C	1:B:3347:CYS:H	2.23	0.46
1:B:3722:PHE:HD1	1:B:3740:ILE:HA	1.80	0.46
1:B:4081:ALA:HA	1:B:4113:ASP:OD2	2.13	0.46
1:A:186:PRO:O	1:A:189:MSE:HB3	2.16	0.46
1:A:348:ILE:O	1:A:364:ARG:HD3	2.16	0.46
1:A:356:ASN:CG	1:A:1859:ASN:HB2	2.40	0.46
1:A:1010:LEU:O	1:A:1013:ILE:N	2.39	0.46
1:A:1373:VAL:O	1:A:1375:THR:N	2.41	0.46
1:A:1498:GLN:C	1:A:1501:PRO:HD2	2.40	0.46
1:A:1976:LEU:HD11	1:A:2031:LEU:CB	2.44	0.46
1:A:2186:VAL:O	1:A:2189:ILE:HG13	2.15	0.46
1:A:2199:LEU:HA	1:A:2202:PRO:HD2	1.97	0.46
1:A:2418:LYS:O	1:A:2421:VAL:HG12	2.15	0.46
1:A:2554:PHE:O	1:A:2557:LEU:HB2	2.16	0.46
1:A:2900:LEU:HD23	1:A:2910:VAL:HA	1.97	0.46
1:A:3008:TRP:CA	1:A:3050:LYS:HG2	2.44	0.46
1:A:3931:ALA:HB3	1:A:3936:GLY:O	2.15	0.46
1:A:3995:PRO:O	1:A:3999:THR:OG1	2.17	0.46
1:A:4069:GLU:HA	1:A:4070:LYS:HA	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:135:LEU:O	1:B:139:ARG:HG3	2.15	0.46
1:B:381:VAL:O	1:B:384:MSE:HG2	2.14	0.46
1:B:401:ASP:HB2	1:B:1763:THR:HB	1.98	0.46
1:B:763:THR:HG21	1:B:769:GLY:HA3	1.97	0.46
1:B:1231:GLN:H	1:B:1232:PRO:CD	2.28	0.46
1:B:1259:LEU:HD11	1:B:1337:VAL:HA	1.97	0.46
1:B:1874:TYR:OH	1:B:1884:LEU:HD12	2.15	0.46
1:A:135:LEU:HD22	1:A:173:LYS:HB2	1.97	0.46
1:A:385:TYR:HE1	1:A:421:LEU:HD23	1.79	0.46
1:A:399:GLN:OE1	1:A:405:ASP:HB2	2.16	0.46
1:A:436:GLU:OE2	1:A:475:LEU:CD1	2.63	0.46
1:A:777:SER:O	1:A:781:ASP:N	2.48	0.46
1:A:1376:LEU:HG	1:A:1377:CYS:N	2.30	0.46
1:A:1495:ASP:O	1:A:1498:GLN:HB2	2.15	0.46
1:A:1696:LEU:HD23	1:A:1700:THR:HG21	1.97	0.46
1:A:1985:LYS:HD2	1:A:2037:SER:HB3	1.98	0.46
1:A:2233:HIS:HA	1:A:2236:GLU:CD	2.40	0.46
1:A:2233:HIS:O	1:A:2237:ILE:HG13	2.15	0.46
1:A:2538:ARG:HG3	1:A:2539:LEU:N	2.28	0.46
1:A:2823:PHE:CG	1:A:2824:LYS:N	2.83	0.46
1:A:2949:THR:O	1:A:2952:ILE:N	2.46	0.46
1:A:3141:PHE:CE1	1:A:3189:PHE:HA	2.51	0.46
1:A:3762:GLN:HA	1:A:3793:VAL:CG2	2.41	0.46
1:B:222:GLY:O	1:B:225:LYS:N	2.49	0.46
1:B:431:TYR:N	1:B:431:TYR:CD1	2.79	0.46
1:B:487:LEU:HD21	1:B:530:LEU:HB2	1.97	0.46
1:B:543:SER:O	1:B:545:LEU:N	2.37	0.46
1:B:789:TYR:HB2	1:B:865:GLN:HE21	1.81	0.46
1:B:1455:CYS:O	1:B:1458:LEU:N	2.49	0.46
1:B:1602:ASP:HB2	1:B:1810:PRO:HB3	1.98	0.46
1:B:2009:LYS:HG3	1:B:2012:ARG:NH1	2.30	0.46
1:B:3233:SER:O	1:B:3237:SER:OG	2.28	0.46
1:B:3616:ALA:O	1:B:3617:LEU:HD23	2.16	0.46
1:B:3855:TYR:HB3	1:B:4074:PHE:HZ	1.80	0.46
1:B:4002:MSE:SE	1:B:4048:LYS:CE	3.12	0.46
1:A:350:ARG:NH1	1:A:387:GLU:OE1	2.49	0.46
1:A:730:LEU:HA	1:A:730:LEU:HD23	1.82	0.46
1:A:764:PRO:HB3	1:A:770:LEU:HD11	1.97	0.46
1:A:1395:LEU:N	1:A:1396:PRO:HD2	2.30	0.46
1:A:1476:HIS:CE1	1:A:1507:CYS:HA	2.50	0.46
1:A:1589:ASN:O	1:A:1590:THR:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1602:ASP:HB2	1:A:1810:PRO:HB3	1.96	0.46
1:A:1604:SER:CB	1:A:1632:TRP:HE3	2.28	0.46
1:A:1874:TYR:HD2	1:A:1885:PRO:HG3	1.80	0.46
1:A:2177:ASN:HB3	1:A:2182:ILE:N	2.30	0.46
1:A:2240:THR:HG21	2:K:112:UNK:HA	1.98	0.46
1:A:2310:VAL:HG23	1:A:2315:VAL:HG21	1.98	0.46
1:A:2834:GLN:O	1:A:2837:LEU:HG	2.15	0.46
1:B:70:ARG:HH12	1:B:117:LYS:HD2	1.80	0.46
1:B:158:GLY:O	1:B:162:LEU:HD13	2.15	0.46
1:B:241:ASP:HB3	1:B:282:PHE:HE2	1.78	0.46
1:B:852:ARG:HH12	1:B:3111:MSE:HG2	1.79	0.46
1:B:892:LEU:HD11	1:B:958:MSE:HG3	1.98	0.46
1:B:898:PHE:CD2	1:B:2566:THR:HG21	2.50	0.46
1:B:1809:ASP:O	1:B:1815:THR:HG22	2.14	0.46
1:B:1917:LYS:HE2	1:B:1953:CYS:O	2.14	0.46
1:B:2312:TYR:CZ	1:B:2313:LYS:HG2	2.50	0.46
1:B:3160:LEU:HD23	1:B:3164:TRP:CH2	2.51	0.46
1:B:3283:LEU:O	1:B:3283:LEU:HD22	2.16	0.46
1:B:3463:LEU:HD13	1:B:4000:ASN:CB	2.45	0.46
1:B:3740:ILE:HD12	1:B:3750:PHE:CE1	2.51	0.46
1:B:3816:LEU:O	1:B:3820:MSE:CB	2.64	0.46
1:A:429:GLU:HG2	1:A:1594:SER:HB2	1.97	0.46
1:A:964:ARG:CB	1:A:1009:LEU:HD22	2.35	0.46
1:A:993:HIS:HB2	1:A:1038:LYS:CG	2.45	0.46
1:A:1012:ALA:O	1:A:1015:ASP:HB3	2.15	0.46
1:A:1072:ALA:HB1	1:A:1076:LEU:CD1	2.46	0.46
1:A:1494:GLY:O	1:A:1498:GLN:HG3	2.15	0.46
1:A:1582:LEU:O	1:A:1583:MSE:C	2.59	0.46
1:A:1593:VAL:O	1:A:1597:LEU:CB	2.62	0.46
1:A:1636:ASP:HA	1:A:1639:LEU:HD11	1.98	0.46
1:A:1651:LYS:HD2	1:A:1684:LEU:HG	1.98	0.46
1:A:1897:ASN:HB3	1:A:1901:HIS:CE1	2.50	0.46
1:A:1933:LEU:H	1:A:1938:ARG:NH2	2.13	0.46
1:A:1934:LEU:HD11	1:A:1937:ARG:H	1.80	0.46
1:A:2923:TRP:CD1	1:A:2926:LEU:HD23	2.50	0.46
1:A:3121:LEU:O	1:A:3124:SER:HB2	2.14	0.46
1:A:3297:VAL:HG11	1:A:3332:THR:HG23	1.97	0.46
1:B:178:LEU:HB3	1:B:197:PHE:CE1	2.49	0.46
1:B:368:LEU:HD21	1:B:384:MSE:SE	2.66	0.46
1:B:648:SER:O	1:B:651:TYR:HB2	2.15	0.46
1:B:850:GLU:CD	1:B:854:ARG:HH21	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1423:ILE:HG13	1:B:1424:THR:H	1.81	0.46
1:B:1447:ARG:O	1:B:1451:VAL:HG23	2.15	0.46
1:B:1592:MSE:O	1:B:1596:VAL:HG12	2.16	0.46
1:B:1865:THR:O	1:B:1869:LYS:HG3	2.16	0.46
1:B:2010:GLU:C	1:B:2012:ARG:N	2.73	0.46
1:B:2383:PHE:CE1	1:B:2412:TYR:HD1	2.34	0.46
1:B:2413:PHE:HD2	1:B:2445:LYS:HG3	1.76	0.46
1:B:3334:TYR:HE1	1:B:3426:LYS:HD3	1.81	0.46
1:B:3813:LYS:HE3	1:B:3926:ASN:HB2	1.98	0.46
1:B:4085:LYS:HA	1:B:4088:ASN:HB3	1.98	0.46
1:A:89:LEU:HA	1:A:92:PHE:CD2	2.50	0.46
1:A:434:VAL:HG23	1:A:437:HIS:CE1	2.51	0.46
1:A:471:LYS:HG3	1:A:1553:PHE:HZ	1.81	0.46
1:A:512:GLY:HA2	1:A:602:MSE:CE	2.45	0.46
1:A:749:VAL:N	1:A:750:PRO:CD	2.79	0.46
1:A:1917:LYS:HD2	1:A:1953:CYS:HB3	1.98	0.46
1:A:2177:ASN:HB2	1:A:2182:ILE:HG23	1.97	0.46
1:A:2232:ARG:O	1:A:2234:ASN:N	2.49	0.46
1:A:2260:PHE:CZ	1:A:2306:ASN:HB2	2.51	0.46
1:A:2371:PHE:CG	1:A:2372:PRO:HD3	2.51	0.46
1:A:2555:LEU:HD12	1:A:2556:SER:H	1.79	0.46
1:A:2575:PRO:HB3	1:A:2789:SER:N	2.31	0.46
1:A:2776:ARG:O	1:A:2780:LEU:HD23	2.15	0.46
1:A:3463:LEU:HD13	1:A:4000:ASN:HB2	1.97	0.46
1:A:3549:HIS:NE2	1:A:3553:GLU:HG3	2.30	0.46
1:A:3578:LEU:HB3	1:A:3579:SER:HA	1.97	0.46
1:A:3722:PHE:CE1	1:A:3740:ILE:HA	2.51	0.46
1:A:3817:LEU:HD23	1:A:3820:MSE:CE	2.45	0.46
1:A:3944:HIS:HA	1:A:4016:PHE:HZ	1.81	0.46
1:A:3966:GLN:HG2	1:A:4128:MSE:O	2.15	0.46
1:B:12:LEU:HD12	1:B:58:VAL:HG21	1.97	0.46
1:B:259:GLN:C	1:B:260:ILE:HG13	2.41	0.46
1:B:617:PRO:CB	1:B:659:ARG:HD2	2.45	0.46
1:B:1565:GLU:HG2	1:B:1566:THR:HG23	1.97	0.46
1:B:2142:ILE:O	1:B:2145:PHE:HB2	2.16	0.46
1:B:2159:PRO:HA	1:B:2162:LYS:HB2	1.98	0.46
1:B:2539:LEU:HB3	1:B:2816:ILE:CD1	2.46	0.46
1:B:3092:LEU:O	1:B:3192:LYS:NZ	2.42	0.46
1:B:3167:ARG:CD	1:B:3186:ARG:HG2	2.45	0.46
1:B:3578:LEU:HD13	1:B:3683:CYS:SG	2.56	0.46
1:B:3701:ILE:HG13	1:B:3701:ILE:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:231:LEU:HD23	1:A:234:PHE:HB3	1.98	0.46
1:A:608:PRO:HG2	1:A:1798:LEU:HD12	1.97	0.46
1:A:741:ILE:HB	1:A:744:ASP:CG	2.40	0.46
1:A:852:ARG:HH12	1:A:3110:PHE:HE1	1.61	0.46
1:A:1138:ILE:HD13	1:A:1150:LYS:CE	2.39	0.46
1:A:1382:ILE:HB	1:A:1386:ILE:CD1	2.44	0.46
1:A:1633:TRP:HA	1:A:1636:ASP:OD2	2.15	0.46
1:A:2097:LEU:HA	1:A:2097:LEU:HD23	1.77	0.46
1:A:2190:VAL:O	1:A:2193:ILE:HG22	2.16	0.46
1:A:2220:MSE:O	1:A:2223:VAL:HG12	2.16	0.46
1:A:2252:PRO:HA	1:A:2254:ARG:NH1	2.31	0.46
1:A:2433:LYS:HG3	1:A:2436:LEU:CD1	2.42	0.46
1:A:2861:ILE:HD12	1:A:2892:LEU:HD23	1.97	0.46
1:A:3971:MSE:HE1	1:A:3980:MSE:HE1	1.97	0.46
1:A:4066:LEU:HD21	1:A:4078:VAL:CG2	2.46	0.46
1:B:368:LEU:C	1:B:372:PRO:HG2	2.41	0.46
1:B:598:PRO:HG3	1:B:1022:ASP:O	2.16	0.46
1:B:655:LEU:HD12	1:B:655:LEU:HA	1.60	0.46
1:B:1119:LYS:NZ	1:B:1256:TRP:HE1	2.13	0.46
1:B:1449:ALA:HA	1:B:1452:VAL:HB	1.96	0.46
1:B:2374:LEU:N	1:B:2378:PHE:HE1	2.14	0.46
1:B:2926:LEU:HD22	1:B:2931:ARG:NE	2.31	0.46
1:B:2962:ARG:HG3	1:B:3253:SER:OG	2.16	0.46
1:B:2975:ALA:C	1:B:2977:ASN:N	2.74	0.46
1:B:3173:MSE:HG2	1:B:3174:ASP:OD1	2.15	0.46
1:B:3323:PHE:O	1:B:3326:GLN:N	2.48	0.46
1:B:3630:ARG:HD2	1:B:3633:ILE:HG12	1.98	0.46
1:B:3878:VAL:HB	1:B:3879:PRO:HD3	1.98	0.46
1:A:513:GLU:OE1	1:A:655:LEU:HB3	2.15	0.46
1:A:1132:ASP:O	1:A:1135:CYS:N	2.49	0.46
1:A:1378:GLU:O	1:A:1381:SER:N	2.49	0.46
1:A:1521:PHE:HA	1:A:1524:LEU:HD22	1.98	0.46
1:A:1652:ILE:HA	1:A:1655:ILE:HD12	1.97	0.46
1:A:2011:ALA:HB3	1:A:2014:ALA:HB2	1.98	0.46
1:A:2221:LYS:O	1:A:2225:HIS:CE1	2.69	0.46
1:A:2385:LEU:HG	1:A:2389:PHE:CZ	2.51	0.46
1:A:2828:GLU:O	1:A:2832:ILE:HG13	2.15	0.46
1:A:3024:PRO:N	1:A:3025:PRO:HD3	2.31	0.46
1:A:3292:GLY:O	1:A:3297:VAL:HG23	2.15	0.46
1:A:3593:ARG:HH11	1:A:3593:ARG:HG2	1.81	0.46
1:A:3771:MSE:SE	1:A:3991:PHE:HE1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3870:SER:OG	1:A:3871:PHE:N	2.46	0.46
1:A:3933:GLU:C	1:A:3935:GLY:H	2.24	0.46
1:A:4077:TYR:CZ	1:A:4119:ARG:HD2	2.51	0.46
1:B:350:ARG:NH1	1:B:387:GLU:CD	2.74	0.46
1:B:575:ILE:HB	1:B:605:THR:CA	2.46	0.46
1:B:1407:LYS:C	1:B:1409:SER:H	2.17	0.46
1:B:1690:GLY:O	1:B:1694:THR:HG22	2.16	0.46
1:B:2000:ARG:HG2	1:B:2001:LYS:HG3	1.97	0.46
1:B:2067:ARG:O	1:B:2068:ARG:HB2	2.14	0.46
1:B:2246:LYS:C	1:B:2248:CYS:H	2.23	0.46
1:B:2369:LYS:HE3	1:B:2406:GLU:OE1	2.16	0.46
1:B:2869:LEU:HB3	1:B:2893:LEU:HG	1.96	0.46
1:B:2955:SER:O	1:B:2965:TYR:OH	2.25	0.46
1:B:3052:LEU:HD11	1:B:3092:LEU:HG	1.97	0.46
1:B:3272:TRP:CZ3	1:B:3307:LEU:HD21	2.51	0.46
1:B:3439:LEU:O	1:B:3443:PRO:HD3	2.16	0.46
1:B:3499:ILE:CG2	1:B:3535:ILE:HD13	2.41	0.46
1:B:3868:VAL:HG13	1:B:3872:ARG:HB2	1.98	0.46
1:A:67:VAL:HG22	1:A:110:THR:HG21	1.97	0.46
1:A:431:TYR:N	1:A:431:TYR:CD1	2.84	0.46
1:A:805:LEU:HD13	1:A:3117:ILE:HD13	1.98	0.46
1:A:971:ARG:CG	1:A:972:LEU:N	2.69	0.46
1:A:973:ALA:HB1	1:A:977:ASP:OD2	2.16	0.46
1:A:1165:LEU:O	1:A:1166:LEU:C	2.59	0.46
1:A:1455:CYS:O	1:A:1458:LEU:HB2	2.16	0.46
1:A:1563:PHE:CE1	1:A:1567:ILE:HG13	2.51	0.46
1:A:1652:ILE:HG21	1:A:1716:GLN:OE1	2.15	0.46
1:A:1760:GLU:HB2	1:A:1894:SER:HA	1.97	0.46
1:A:2069:ARG:HG2	2:K:204:UNK:CB	2.46	0.46
1:A:2100:LEU:O	1:A:2104:MSE:HB2	2.16	0.46
1:A:2164:TRP:HH2	1:A:2190:VAL:CG1	2.29	0.46
1:A:2232:ARG:HH22	1:A:2313:LYS:NZ	2.13	0.46
1:A:2255:LEU:HD12	1:A:2258:GLU:HB2	1.98	0.46
1:A:2517:LEU:HD23	1:A:2517:LEU:H	1.80	0.46
1:A:2801:ASP:HB2	1:A:2802:PRO:HD3	1.98	0.46
1:A:3033:GLU:OE2	1:A:3079:GLU:CD	2.59	0.46
1:A:3092:LEU:O	1:A:3192:LYS:NZ	2.45	0.46
1:A:3694:PHE:CD2	1:A:3697:ASN:HA	2.51	0.46
1:B:68:PHE:O	1:B:72:SER:OG	2.10	0.46
1:B:172:GLU:HG2	1:B:221:ALA:HB3	1.98	0.46
1:B:560:LEU:CB	1:B:616:LYS:HG2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1747:LEU:HD23	1:B:1747:LEU:HA	1.77	0.46
1:B:2312:TYR:CG	1:B:2313:LYS:N	2.83	0.46
1:B:2900:LEU:HD23	1:B:2910:VAL:HA	1.98	0.46
1:B:3091:LEU:O	1:B:3192:LYS:HE2	2.15	0.46
1:B:3141:PHE:HA	1:B:3144:PHE:CE2	2.51	0.46
1:B:3408:GLY:O	1:B:3411:ASP:HB2	2.16	0.46
1:B:3534:ILE:HD12	1:B:3534:ILE:H	1.79	0.46
1:B:3829:LEU:HA	1:B:3829:LEU:HD12	1.60	0.46
1:A:265:TYR:C	1:A:268:PRO:HD2	2.40	0.46
1:A:982:GLN:O	1:A:986:PRO:CD	2.63	0.46
1:A:1133:HIS:O	1:A:1133:HIS:CG	2.68	0.46
1:A:1856:THR:HB	1:A:1860:GLU:OE1	2.16	0.46
1:A:1894:SER:C	1:A:1896:ILE:H	2.24	0.46
1:A:1927:MSE:HE3	1:A:1927:MSE:HB2	1.62	0.46
1:A:2129:LEU:HD22	1:A:2144:LEU:HD11	1.96	0.46
1:A:2313:LYS:HA	1:A:2316:TYR:HE2	1.79	0.46
1:A:3583:LEU:HD21	1:A:3733:ARG:NH1	2.31	0.46
1:A:3780:ALA:CB	1:A:3784:ARG:HH12	2.29	0.46
1:A:3819:THR:O	1:A:3823:GLU:HG2	2.16	0.46
1:A:3900:LEU:HD12	1:A:3900:LEU:HA	1.80	0.46
1:A:4062:ASP:O	1:A:4066:LEU:HD13	2.16	0.46
1:B:257:ARG:H	1:B:258:PRO:CD	2.29	0.46
1:B:504:GLU:O	1:B:508:HIS:CG	2.69	0.46
1:B:578:LYS:O	1:B:581:LEU:HB2	2.16	0.46
1:B:620:PHE:HE1	1:B:623:PHE:HD2	1.64	0.46
1:B:752:LEU:HB2	1:B:756:PHE:CE1	2.51	0.46
1:B:1430:GLU:OE1	1:B:1448:LEU:HA	2.16	0.46
1:B:1810:PRO:O	1:B:1811:ARG:HD2	2.16	0.46
1:B:1889:VAL:HG22	1:B:1900:PHE:CD2	2.51	0.46
1:B:1911:LEU:HD13	1:B:1916:ILE:HG22	1.97	0.46
1:B:2135:ASN:N	1:B:2136:PRO:CD	2.79	0.46
1:B:2161:ALA:O	1:B:2164:TRP:HB2	2.16	0.46
1:B:2241:LEU:H	1:B:2241:LEU:HG	1.53	0.46
1:B:2352:HIS:O	1:B:2360:PHE:HD2	1.99	0.46
1:B:2373:PRO:HA	1:B:2378:PHE:HZ	1.80	0.46
1:B:2386:LEU:O	1:B:2390:HIS:CB	2.64	0.46
1:B:2957:LEU:HB3	1:B:4100:GLU:OE2	2.16	0.46
1:B:3483:MSE:O	1:B:3516:HIS:CE1	2.69	0.46
1:B:3872:ARG:O	1:B:3876:SER:CB	2.64	0.46
1:A:93:LEU:HD23	1:A:93:LEU:HA	1.78	0.45
1:A:252:VAL:HB	1:A:265:TYR:HD1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:382:ASP:O	1:A:386:VAL:CB	2.58	0.45
1:A:752:LEU:HB2	1:A:756:PHE:HE1	1.79	0.45
1:A:1426:GLN:O	1:A:1430:GLU:HG3	2.16	0.45
1:A:1802:TYR:HA	1:A:1805:PHE:CD2	2.48	0.45
1:A:2035:THR:O	1:A:2039:GLU:HG3	2.16	0.45
1:A:2147:ALA:O	1:A:2151:ILE:N	2.49	0.45
1:A:2223:VAL:HG21	1:A:2238:ILE:HB	1.98	0.45
1:A:2356:MSE:HE2	1:A:2359:LYS:HD2	1.97	0.45
1:A:2874:ALA:O	1:A:2878:ALA:N	2.50	0.45
1:A:2921:LEU:HD12	1:A:2922:ARG:N	2.31	0.45
1:A:3326:GLN:OE1	1:A:3393:GLU:OE2	2.34	0.45
1:A:3413:TYR:CD1	1:A:3449:LYS:HB3	2.51	0.45
1:A:3997:LEU:O	1:A:4001:THR:HG23	2.17	0.45
1:B:406:ARG:HB3	1:B:408:TYR:CD2	2.51	0.45
1:B:528:VAL:HA	1:B:531:PHE:CE2	2.51	0.45
1:B:634:LEU:O	1:B:638:GLN:NE2	2.49	0.45
1:B:756:PHE:CD2	1:B:773:LEU:HB3	2.51	0.45
1:B:1014:LEU:HB2	1:B:1078:ALA:CB	2.43	0.45
1:B:1630:ASP:HA	1:B:1633:TRP:HE3	1.81	0.45
1:B:1879:VAL:HG23	1:B:1920:TYR:CD2	2.51	0.45
1:B:1989:ASN:HB3	1:B:2040:MSE:SE	2.66	0.45
1:B:2373:PRO:HA	1:B:2378:PHE:CZ	2.51	0.45
1:B:2389:PHE:CG	1:B:2396:LEU:HD22	2.51	0.45
1:B:2405:VAL:O	1:B:2408:MSE:HB2	2.16	0.45
1:B:2538:ARG:NH1	1:B:2562:LEU:HA	2.31	0.45
1:B:2908:LYS:HD3	1:B:2908:LYS:HA	1.72	0.45
1:B:3582:GLU:OE2	1:B:3675:LYS:HG3	2.16	0.45
1:B:3703:GLY:H	1:B:3717:VAL:HG13	1.80	0.45
1:B:3866:GLU:HA	1:B:3869:THR:OG1	2.16	0.45
1:B:3954:PRO:CB	1:B:4027:TRP:HA	2.46	0.45
1:A:44:LEU:H	1:A:44:LEU:HG	1.54	0.45
1:A:264:ARG:O	1:A:268:PRO:HD3	2.15	0.45
1:A:356:ASN:OD1	1:A:1859:ASN:HB2	2.16	0.45
1:A:760:LEU:O	1:A:764:PRO:HG3	2.16	0.45
1:A:968:VAL:O	1:A:971:ARG:HG2	2.16	0.45
1:A:992:ILE:HD13	1:A:1035:GLU:HB2	1.98	0.45
1:A:1076:LEU:HD21	1:A:1114:ALA:HB1	1.99	0.45
1:A:1334:LYS:HD3	1:A:1334:LYS:HA	1.82	0.45
1:A:1386:ILE:HB	1:A:1391:VAL:CG2	2.45	0.45
1:A:1460:ARG:H	1:A:1460:ARG:HD2	1.81	0.45
1:A:1894:SER:O	1:A:1897:ASN:N	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1966:LEU:HD22	1:A:1991:PRO:CB	2.42	0.45
1:A:2423:VAL:O	1:A:2425:ARG:N	2.50	0.45
1:A:2785:ILE:O	1:A:2785:ILE:HG12	2.16	0.45
1:A:3141:PHE:HA	1:A:3144:PHE:CE2	2.51	0.45
1:A:3530:VAL:HA	1:A:3533:PHE:CD2	2.51	0.45
1:B:392:CYS:SG	1:B:438:LEU:HD11	2.57	0.45
1:B:637:LYS:O	1:B:641:PHE:CB	2.58	0.45
1:B:657:SER:O	1:B:660:LEU:HB2	2.16	0.45
1:B:850:GLU:CD	1:B:854:ARG:NH2	2.75	0.45
1:B:910:PHE:HE2	1:B:941:MSE:SE	2.49	0.45
1:B:1165:LEU:O	1:B:1166:LEU:C	2.60	0.45
1:B:1559:PHE:CE1	1:B:1592:MSE:HE2	2.52	0.45
1:B:1752:LEU:C	1:B:1754:GLN:H	2.23	0.45
1:B:1875:LYS:HG3	1:B:1876:ILE:HB	1.99	0.45
1:B:2220:MSE:O	1:B:2221:LYS:C	2.59	0.45
1:B:2316:TYR:O	1:B:2319:ALA:HB3	2.17	0.45
1:B:2893:LEU:O	1:B:2897:LEU:N	2.47	0.45
1:B:2957:LEU:HD21	1:B:4101:GLU:HG3	1.97	0.45
1:B:3243:ILE:HG12	1:B:3258:LEU:CD1	2.40	0.45
1:B:3393:GLU:O	1:B:3397:GLN:OE1	2.34	0.45
1:B:3808:ASN:HB3	1:B:3933:GLU:HG2	1.98	0.45
1:B:3920:ILE:HD13	1:B:3961:PHE:HA	1.98	0.45
1:B:4090:ARG:HA	1:B:4090:ARG:HD3	1.71	0.45
1:A:19:LEU:O	1:A:23:ASP:CB	2.62	0.45
1:A:313:LEU:HD22	1:A:317:GLU:OE2	2.16	0.45
1:A:1099:PHE:CG	1:A:1100:VAL:N	2.84	0.45
1:A:1416:GLU:HB3	1:A:1420:ARG:HD2	1.97	0.45
1:A:1604:SER:HA	1:A:1632:TRP:HE3	1.80	0.45
1:A:1939:LEU:HD13	1:A:1986:ARG:NH2	2.30	0.45
1:A:2074:PRO:HB3	1:A:2136:PRO:HB3	1.98	0.45
1:A:2126:MSE:HE2	1:A:2126:MSE:HB2	1.79	0.45
1:A:2260:PHE:HZ	1:A:2306:ASN:HB2	1.82	0.45
1:A:2940:ARG:HD3	1:A:3975:LYS:HD2	1.97	0.45
1:A:3291:GLN:NE2	1:A:3294:SER:OG	2.50	0.45
1:A:3454:LEU:C	1:A:3456:LEU:H	2.25	0.45
1:A:3477:GLU:HA	1:A:3480:LEU:HG	1.98	0.45
1:A:3513:ALA:O	1:A:3516:HIS:N	2.49	0.45
1:A:3612:ARG:HD3	1:A:3799:ARG:HH21	1.82	0.45
1:A:3771:MSE:HE1	1:A:3917:ILE:HG21	1.97	0.45
1:A:3981:TYR:CE1	1:A:4105:LYS:HA	2.51	0.45
1:B:11:SER:OG	1:B:41:GLU:OE1	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:226:GLY:O	1:B:230:LEU:HD23	2.16	0.45
1:B:264:ARG:HD3	1:B:264:ARG:HA	1.75	0.45
1:B:488:ILE:HG21	1:B:616:LYS:CD	2.38	0.45
1:B:617:PRO:HB3	1:B:659:ARG:CG	2.46	0.45
1:B:706:LEU:CD2	1:B:1385:ASN:HD22	2.29	0.45
1:B:710:PHE:O	1:B:711:GLY:C	2.59	0.45
1:B:789:TYR:HD2	1:B:865:GLN:CG	2.29	0.45
1:B:1014:LEU:HD23	1:B:1028:PHE:CE2	2.51	0.45
1:B:1651:LYS:CE	1:B:1684:LEU:HD21	2.46	0.45
1:B:1801:VAL:HG12	1:B:1805:PHE:CE2	2.52	0.45
1:B:2912:GLY:O	1:B:2915:ARG:CZ	2.65	0.45
1:B:3600:PRO:C	1:B:3602:ASN:N	2.75	0.45
1:A:48:PRO:O	1:A:50:VAL:N	2.50	0.45
1:A:185:HIS:N	1:A:186:PRO:HD2	2.18	0.45
1:A:244:THR:O	1:A:248:ILE:HG13	2.16	0.45
1:A:249:PHE:CG	1:A:297:LEU:HD13	2.52	0.45
1:A:443:ILE:HD11	1:A:465:PHE:CE2	2.52	0.45
1:A:913:ARG:HE	1:A:916:GLU:CD	2.24	0.45
1:A:1685:ASP:HA	1:A:1728:GLU:OE2	2.16	0.45
1:A:1727:ARG:NH1	1:A:1728:GLU:OE1	2.50	0.45
1:A:2286:PRO:HD2	1:A:2329:TYR:CE2	2.50	0.45
1:A:2539:LEU:HA	1:A:2542:LEU:HD23	1.98	0.45
1:A:2553:HIS:ND1	1:A:2803:ILE:HD12	2.32	0.45
1:A:2563:LEU:O	1:A:2567:SER:CB	2.65	0.45
1:A:3141:PHE:HZ	1:A:3192:LYS:CB	2.30	0.45
1:A:3868:VAL:HG12	1:A:3872:ARG:HE	1.81	0.45
1:A:4059:ILE:HD11	1:A:4082:ARG:HD2	1.99	0.45
1:B:396:PHE:CG	1:B:397:LEU:N	2.83	0.45
1:B:433:PRO:CB	1:B:1812:LEU:HB3	2.47	0.45
1:B:764:PRO:CB	1:B:848:LEU:HD11	2.46	0.45
1:B:952:GLY:C	1:B:954:GLY:H	2.25	0.45
1:B:1093:GLU:O	1:B:1096:VAL:HG12	2.17	0.45
1:B:1577:LEU:HD12	1:B:1578:ALA:HB2	1.99	0.45
1:B:1879:VAL:O	1:B:1882:SER:N	2.48	0.45
1:B:2038:GLU:OE1	1:B:2076:VAL:HG22	2.17	0.45
1:B:4108:MSE:O	1:B:4111:ALA:N	2.44	0.45
1:A:367:GLY:C	1:A:369:PHE:N	2.64	0.45
1:A:910:PHE:H	1:A:912:PRO:HD2	1.82	0.45
1:A:933:LEU:HD21	1:A:2795:GLN:NE2	2.31	0.45
1:A:1090:ARG:NH2	1:A:1100:VAL:HG11	2.17	0.45
1:A:1363:LEU:HD23	1:A:1363:LEU:HA	1.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1479:VAL:O	1:A:1482:GLU:HB2	2.15	0.45
1:A:1894:SER:O	1:A:1896:ILE:N	2.49	0.45
1:A:2137:ILE:HG22	1:A:2141:ASN:HD21	1.82	0.45
1:A:2164:TRP:HZ3	1:A:2186:VAL:HG23	1.81	0.45
1:A:2196:TRP:NE1	1:A:2200:ALA:HB2	2.31	0.45
1:A:2538:ARG:NH1	1:A:2566:THR:N	2.64	0.45
1:A:2808:LEU:O	1:A:2811:SER:OG	2.31	0.45
1:A:3764:VAL:O	1:A:3768:PHE:HD1	2.00	0.45
1:B:280:SER:C	1:B:322:GLN:HG2	2.42	0.45
1:B:437:HIS:HA	1:B:1814:PHE:CE2	2.52	0.45
1:B:733:LEU:HD23	1:B:733:LEU:N	2.31	0.45
1:B:783:HIS:C	1:B:785:MSE:H	2.24	0.45
1:B:906:PHE:HA	1:B:909:VAL:HB	1.98	0.45
1:B:1142:HIS:C	1:B:1144:SER:N	2.73	0.45
1:B:1280:GLN:HA	1:B:1361:LYS:HZ3	1.81	0.45
1:B:1468:LEU:O	1:B:1472:SER:N	2.50	0.45
1:B:1686:LEU:HD23	1:B:1686:LEU:HA	1.56	0.45
1:B:1971:PRO:O	1:B:1972:GLU:HG2	2.16	0.45
1:B:2028:LEU:HB2	1:B:2030:TYR:CE2	2.52	0.45
1:B:2193:ILE:CD1	1:B:2245:TRP:CZ2	2.99	0.45
1:B:2524:PHE:HA	1:B:2527:HIS:HB3	1.98	0.45
1:B:2937:ASP:OD2	1:B:3976:GLU:HB2	2.16	0.45
1:B:3005:LEU:H	1:B:3005:LEU:HG	1.60	0.45
1:B:3048:LYS:HB2	1:B:3048:LYS:HE3	1.77	0.45
1:B:3160:LEU:HB3	1:B:3164:TRP:CH2	2.52	0.45
1:B:3454:LEU:HD23	1:B:3454:LEU:HA	1.59	0.45
1:B:4066:LEU:CD2	1:B:4075:ARG:HG3	2.46	0.45
1:A:260:ILE:HG22	1:A:264:ARG:NH1	2.27	0.45
1:A:706:LEU:HD21	1:A:1388:ASP:OD2	2.15	0.45
1:A:763:THR:HG21	1:A:769:GLY:HA3	1.99	0.45
1:A:971:ARG:HD2	1:A:1024:THR:CG2	2.44	0.45
1:A:977:ASP:CB	1:A:981:ARG:H	2.24	0.45
1:A:1147:LYS:O	1:A:1151:ARG:NE	2.50	0.45
1:A:1161:ALA:O	1:A:1260:LEU:HD13	2.17	0.45
1:A:1917:LYS:HD2	1:A:1953:CYS:SG	2.57	0.45
1:A:2327:LEU:HA	1:A:2330:VAL:HG12	1.98	0.45
1:A:2379:MSE:HE1	1:A:2404:ARG:NH1	2.26	0.45
1:A:2427:ARG:HB3	1:A:2433:LYS:HB2	1.98	0.45
1:A:2806:LYS:HA	1:A:2809:PHE:CE2	2.50	0.45
1:A:3944:HIS:CE1	1:A:4020:MSE:HE3	2.52	0.45
1:A:4013:TRP:HB2	1:A:4040:PRO:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:279:ALA:HA	1:B:282:PHE:CD2	2.52	0.45
1:B:542:ASP:HA	1:B:545:LEU:CD1	2.47	0.45
1:B:560:LEU:HA	1:B:563:LEU:HB2	1.99	0.45
1:B:586:GLN:OE1	1:B:1088:GLU:HG2	2.17	0.45
1:B:763:THR:N	1:B:764:PRO:HD3	2.31	0.45
1:B:982:GLN:O	1:B:986:PRO:CD	2.64	0.45
1:B:1299:GLU:HA	1:B:1302:ALA:HB3	1.99	0.45
1:B:1652:ILE:HG12	1:B:1717:LEU:HD11	1.99	0.45
1:B:2193:ILE:O	1:B:2193:ILE:HG12	2.14	0.45
1:B:2913:LYS:O	1:B:2916:LEU:N	2.25	0.45
1:B:3268:THR:O	1:B:3271:ASP:HB3	2.17	0.45
1:B:3518:VAL:HA	1:B:3521:ILE:HG22	1.98	0.45
1:B:3880:ALA:HB1	1:B:3969:ASN:HB3	1.99	0.45
1:B:3890:MSE:O	1:B:3891:SER:OG	2.33	0.45
1:B:3916:TRP:CZ3	1:B:3917:ILE:HD12	2.52	0.45
1:A:65:LEU:HD23	1:A:68:PHE:CZ	2.52	0.45
1:A:313:LEU:HD13	1:A:317:GLU:OE2	2.16	0.45
1:A:575:ILE:N	1:A:605:THR:OG1	2.50	0.45
1:A:799:TYR:O	1:A:801:LYS:N	2.50	0.45
1:A:916:GLU:HA	1:A:919:LEU:HG	1.99	0.45
1:A:1147:LYS:HG2	1:A:1180:GLN:HG2	1.97	0.45
1:A:1996:VAL:HG23	1:A:1997:PRO:HD3	1.98	0.45
1:A:2004:TYR:OH	1:A:2055:SER:HB3	2.16	0.45
1:A:2077:HIS:HB3	1:A:2081:LEU:HG	1.99	0.45
1:A:2236:GLU:H	1:A:2236:GLU:HG3	1.46	0.45
1:A:2485:ARG:HA	1:A:2499:PHE:HE2	1.82	0.45
1:A:3011:LEU:HD11	1:A:3043:TYR:C	2.42	0.45
1:A:3077:ILE:O	1:A:3081:HIS:CG	2.70	0.45
1:A:3244:ASP:O	1:A:3247:ARG:HB3	2.16	0.45
1:A:3458:SER:OG	1:A:3494:GLN:NE2	2.49	0.45
1:A:3572:ILE:HD13	1:A:3575:LEU:HD12	1.97	0.45
1:A:3619:ASP:N	1:A:3620:PRO:CD	2.80	0.45
1:A:3670:MSE:HE3	1:A:3670:MSE:HB2	1.78	0.45
1:A:3834:ALA:H	1:A:3835:PRO:HD3	1.81	0.45
1:A:3955:VAL:HG12	1:A:4027:TRP:NE1	2.24	0.45
1:A:3958:LEU:O	1:A:3958:LEU:HD12	2.17	0.45
1:A:4077:TYR:OH	1:A:4116:ILE:HA	2.17	0.45
1:B:215:PRO:HB3	1:B:251:PHE:CD2	2.51	0.45
1:B:348:ILE:HG23	1:B:357:LYS:HE3	1.98	0.45
1:B:743:LEU:HD23	1:B:783:HIS:HE1	1.82	0.45
1:B:901:MSE:HG3	1:B:2819:GLU:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:922:SER:C	1:B:924:ARG:N	2.74	0.45
1:B:980:THR:HG23	1:B:984:TYR:HE2	1.80	0.45
1:B:1039:TRP:CH2	1:B:1052:SER:HB3	2.51	0.45
1:B:1269:THR:CG2	1:B:1275:THR:HG21	2.46	0.45
1:B:1378:GLU:HB3	1:B:1379:PRO:CD	2.46	0.45
1:B:1517:LEU:HD13	1:B:1585:SER:HB2	1.99	0.45
1:B:1876:ILE:O	1:B:1877:LEU:HG	2.16	0.45
1:B:2265:PRO:HD3	1:B:2309:PHE:HZ	1.79	0.45
1:B:2459:VAL:HG13	1:B:2505:VAL:HG13	1.98	0.45
1:B:2462:VAL:CG2	1:B:2473:MSE:SE	3.13	0.45
1:B:3312:VAL:O	1:B:3314:SER:N	2.50	0.45
1:B:3315:TYR:CG	1:B:3316:LEU:N	2.84	0.45
1:B:3564:GLN:C	1:B:3566:GLY:N	2.73	0.45
1:B:3812:LEU:O	1:B:3816:LEU:HB2	2.16	0.45
1:B:3813:LYS:CE	1:B:3926:ASN:HB2	2.46	0.45
1:A:436:GLU:O	1:A:440:VAL:HG13	2.17	0.45
1:A:460:ALA:O	1:A:464:VAL:HG12	2.17	0.45
1:A:557:SER:HA	1:A:560:LEU:CD2	2.47	0.45
1:A:933:LEU:HA	1:A:933:LEU:HD12	1.56	0.45
1:A:1010:LEU:C	1:A:1013:ILE:H	2.25	0.45
1:A:1027:ASP:O	1:A:1031:ARG:HG2	2.17	0.45
1:A:1033:ILE:HG13	1:A:1089:PHE:HE2	1.82	0.45
1:A:2222:HIS:O	1:A:2224:PHE:N	2.49	0.45
1:A:2327:LEU:HD12	1:A:2371:PHE:HB2	1.98	0.45
1:A:2926:LEU:HB2	1:A:3123:GLN:CD	2.42	0.45
1:A:3273:LEU:HD13	1:A:3321:LEU:HD13	1.99	0.45
1:A:3683:CYS:SG	1:A:3736:LYS:NZ	2.90	0.45
1:A:3784:ARG:HB2	1:A:3786:LEU:HG	1.99	0.45
1:A:3820:MSE:HB2	1:A:3882:LEU:HD13	1.98	0.45
1:A:3967:PHE:CG	1:A:3968:ILE:N	2.84	0.45
1:B:63:PHE:O	1:B:66:LEU:HG	2.17	0.45
1:B:527:TYR:HH	1:B:619:ASP:N	2.11	0.45
1:B:759:GLY:HA3	1:B:773:LEU:HD11	1.98	0.45
1:B:1472:SER:OG	1:B:1473:THR:N	2.48	0.45
1:B:2196:TRP:NE1	1:B:2200:ALA:HB2	2.30	0.45
1:B:2402:LEU:HA	1:B:2405:VAL:HG22	1.97	0.45
1:B:3168:TYR:HB3	1:B:3169:PRO:HD3	1.99	0.45
1:B:3181:ASP:HA	1:B:3184:THR:CG2	2.45	0.45
1:B:3438:GLU:HB3	1:B:3442:TYR:HE2	1.82	0.45
1:B:3525:TYR:OH	1:B:3561:LYS:HB2	2.17	0.45
1:B:3594:ALA:CB	1:B:4028:ILE:HD13	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3961:PHE:CE1	1:B:3963:LEU:HB2	2.51	0.45
1:B:4077:TYR:HB2	1:B:4119:ARG:NH2	2.32	0.45
1:A:16:GLN:OE1	1:A:61:ARG:HB2	2.17	0.45
1:A:513:GLU:HG2	1:A:653:LEU:HD11	1.99	0.45
1:A:1402:LEU:O	1:A:1406:LEU:HD23	2.17	0.45
1:A:1685:ASP:HB3	1:A:1728:GLU:OE1	2.16	0.45
1:A:1762:MSE:HG2	1:A:1864:ASP:OD1	2.17	0.45
1:A:1858:LEU:O	1:A:1861:SER:HB2	2.16	0.45
1:A:1911:LEU:HD13	1:A:1916:ILE:CG2	2.45	0.45
1:A:1975:LEU:HA	1:A:1976:LEU:HD23	1.98	0.45
1:A:2226:PRO:O	1:A:2230:VAL:N	2.43	0.45
1:A:2253:TYR:HE1	1:A:2280:VAL:HG22	1.82	0.45
1:A:2777:HIS:O	1:A:2781:PRO:HD3	2.17	0.45
1:A:2806:LYS:O	1:A:2806:LYS:HG2	2.15	0.45
1:A:3930:VAL:HA	1:A:3937:VAL:HG13	1.98	0.45
1:B:114:VAL:HG12	1:B:130:LEU:HD11	1.98	0.45
1:B:262:LEU:H	1:B:262:LEU:HG	1.60	0.45
1:B:321:LYS:O	1:B:325:ASN:HB2	2.17	0.45
1:B:396:PHE:CZ	1:B:437:HIS:CD2	3.05	0.45
1:B:468:LEU:HD22	1:B:475:LEU:CD2	2.46	0.45
1:B:633:ILE:HG22	1:B:634:LEU:CD2	2.46	0.45
1:B:905:ILE:C	1:B:907:LEU:H	2.25	0.45
1:B:912:PRO:O	1:B:916:GLU:HG3	2.16	0.45
1:B:927:LYS:HE2	1:B:927:LYS:HB3	1.80	0.45
1:B:1598:ASN:ND2	1:B:1811:ARG:HG2	2.32	0.45
1:B:1737:ASN:C	1:B:1739:TYR:N	2.73	0.45
1:B:1886:LYS:NZ	1:B:1944:ALA:O	2.47	0.45
1:B:2039:GLU:HG2	1:B:2077:HIS:CE1	2.52	0.45
1:B:2087:GLU:OE2	1:B:2138:VAL:HG12	2.17	0.45
1:B:3498:TRP:HB2	1:B:3501:HIS:HB2	1.99	0.45
1:B:3863:ASN:O	1:B:3867:THR:HG23	2.16	0.45
1:B:4056:PRO:HD2	1:B:4059:ILE:HG22	1.99	0.45
1:A:111:CYS:HB3	1:A:134:LEU:HB3	1.98	0.45
1:A:275:PHE:O	1:A:277:LEU:N	2.50	0.45
1:A:763:THR:OG1	1:A:770:LEU:HD23	2.17	0.45
1:A:993:HIS:ND1	1:A:993:HIS:C	2.74	0.45
1:A:1084:ASN:CG	1:A:1134:LEU:HD11	2.42	0.45
1:A:1300:SER:O	1:A:1304:HIS:ND1	2.36	0.45
1:A:1305:ASP:OD1	1:A:1306:ILE:N	2.50	0.45
1:A:1357:LYS:O	1:A:1357:LYS:HG2	2.17	0.45
1:A:1464:LEU:O	1:A:1468:LEU:N	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1645:VAL:HG22	1:A:1709:GLU:OE1	2.17	0.45
1:A:1806:ARG:O	1:A:1810:PRO:HD3	2.17	0.45
1:A:1915:LEU:CD1	1:A:1916:ILE:HG13	2.46	0.45
1:A:1991:PRO:HD2	1:A:1992:VAL:H	1.81	0.45
1:A:2356:MSE:SE	1:A:2360:PHE:CE1	3.20	0.45
1:A:2870:SER:C	1:A:2872:ASP:N	2.75	0.45
1:A:2959:ALA:O	1:A:3251:ASN:HA	2.17	0.45
1:A:2972:TYR:CE2	1:A:2991:LYS:NZ	2.84	0.45
1:A:3425:ARG:NH2	1:A:3467:ARG:NH1	2.65	0.45
1:B:362:ALA:HB2	1:B:409:GLN:NE2	2.29	0.45
1:B:1032:CYS:HB3	1:B:1036:PHE:HZ	1.77	0.45
1:B:1301:ILE:HA	1:B:1304:HIS:HB2	1.99	0.45
1:B:1583:MSE:HE3	1:B:1643:MSE:HB3	1.98	0.45
1:B:1655:ILE:CG1	1:B:1681:ASP:HB3	2.47	0.45
1:B:2070:GLU:HG3	1:B:2072:ARG:CG	2.38	0.45
1:B:2164:TRP:HH2	1:B:2190:VAL:CG1	2.30	0.45
1:B:2219:LEU:HD23	1:B:2219:LEU:HA	1.76	0.45
1:B:2220:MSE:HE1	1:B:2256:ILE:HD11	1.98	0.45
1:B:2313:LYS:O	1:B:2316:TYR:HE1	2.00	0.45
1:B:2555:LEU:HD22	1:B:2809:PHE:CE2	2.52	0.45
1:B:2883:SER:HA	1:B:2886:GLN:NE2	2.30	0.45
1:B:2894:GLU:CD	1:B:3973:PRO:HG2	2.41	0.45
1:B:3493:TRP:CZ2	1:B:3496:ILE:HG21	2.52	0.45
1:B:3759:ARG:C	1:B:3761:ASP:H	2.25	0.45
1:A:601:TRP:HE3	1:A:601:TRP:H	1.65	0.44
1:A:771:ASN:C	1:A:773:LEU:N	2.75	0.44
1:A:865:GLN:N	1:A:865:GLN:OE1	2.49	0.44
1:A:868:LYS:HA	1:A:871:LEU:HD12	1.99	0.44
1:A:909:VAL:HG12	1:A:937:MSE:SE	2.67	0.44
1:A:1249:SER:O	1:A:1253:THR:CB	2.63	0.44
1:A:1249:SER:HA	1:A:3698:GLU:OE2	2.17	0.44
1:A:2145:PHE:CE2	1:A:2185:MSE:SE	3.20	0.44
1:A:2203:THR:HG23	1:A:2245:TRP:HH2	1.82	0.44
1:A:2634:UNK:O	1:A:2637:UNK:N	2.50	0.44
1:A:3186:ARG:O	1:A:3189:PHE:HB2	2.17	0.44
1:A:3751:LEU:HD13	1:A:3805:TRP:HB2	1.98	0.44
1:A:3872:ARG:O	1:A:3876:SER:CB	2.65	0.44
1:A:3961:PHE:HE1	1:A:3963:LEU:HB2	1.76	0.44
1:A:4025:GLY:O	1:A:4028:ILE:HG22	2.17	0.44
1:A:4090:ARG:HA	1:A:4090:ARG:HD3	1.83	0.44
1:B:82:ARG:NH1	1:B:114:VAL:HG13	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:ASN:HA	1:B:112:THR:HG22	1.99	0.44
1:B:550:PHE:CE1	1:B:633:ILE:HA	2.52	0.44
1:B:805:LEU:HD13	1:B:3117:ILE:CD1	2.46	0.44
1:B:934:LEU:C	1:B:934:LEU:HD23	2.42	0.44
1:B:989:MSE:HG2	1:B:1031:ARG:NH1	2.32	0.44
1:B:1137:ILE:O	1:B:1140:LYS:HD2	2.18	0.44
1:B:1438:GLY:HA2	1:B:1491:ILE:HD11	1.99	0.44
1:B:2147:ALA:O	1:B:2151:ILE:HG13	2.17	0.44
1:B:2384:PHE:C	1:B:2387:PRO:HD2	2.42	0.44
1:B:2960:GLU:O	1:B:2965:TYR:HD1	2.00	0.44
1:B:2970:LYS:CE	1:B:2974:GLU:OE2	2.65	0.44
1:B:3159:ARG:C	1:B:3161:LEU:H	2.25	0.44
1:B:3479:THR:OG1	1:B:3483:MSE:SE	2.85	0.44
1:B:3600:PRO:C	1:B:3602:ASN:H	2.25	0.44
1:B:3862:ALA:O	1:B:3866:GLU:HG3	2.17	0.44
1:B:4121:TRP:CG	1:B:4122:GLU:N	2.85	0.44
1:A:74:ASN:HB3	1:A:75:SER:H	1.44	0.44
1:A:187:SER:O	1:A:190:ILE:HG22	2.16	0.44
1:A:567:GLU:OE1	1:A:1798:LEU:HD13	2.18	0.44
1:A:1358:LEU:HD23	1:A:1358:LEU:O	2.17	0.44
1:A:1684:LEU:HD23	1:A:1687:HIS:HD2	1.83	0.44
1:A:1918:LEU:HD11	1:A:1957:ASN:HD22	1.81	0.44
1:A:2866:ALA:O	1:A:2869:LEU:HB2	2.17	0.44
1:A:3172:LYS:HG3	1:A:3178:ILE:HG21	1.99	0.44
1:A:3427:GLU:HG3	1:A:3439:LEU:HD13	1.99	0.44
1:A:4062:ASP:C	1:A:4066:LEU:HD22	2.42	0.44
1:B:84:GLU:O	1:B:88:PHE:HD2	2.01	0.44
1:B:89:LEU:HA	1:B:92:PHE:CD2	2.52	0.44
1:B:91:ILE:O	1:B:95:LYS:HG3	2.17	0.44
1:B:414:LEU:O	1:B:414:LEU:HG	2.14	0.44
1:B:732:PHE:HB2	1:B:733:LEU:CD2	2.47	0.44
1:B:804:ALA:C	1:B:806:SER:N	2.75	0.44
1:B:934:LEU:O	1:B:938:VAL:HG23	2.17	0.44
1:B:955:ALA:O	1:B:959:TYR:CB	2.66	0.44
1:B:1357:LYS:HG3	1:B:1360:LYS:HZ2	1.83	0.44
1:B:1701:SER:OG	1:B:1702:LEU:N	2.51	0.44
1:B:2004:TYR:CG	1:B:2054:TYR:HB3	2.52	0.44
1:B:2007:ILE:HG22	1:B:2009:LYS:CB	2.47	0.44
1:B:2442:MSE:H	1:B:2442:MSE:HG2	1.62	0.44
1:B:3037:GLN:CD	1:B:3037:GLN:N	2.74	0.44
1:B:3619:ASP:N	1:B:3620:PRO:CD	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3764:VAL:HG13	1:B:3918:LEU:HD21	1.99	0.44
1:B:3912:CYS:HB3	1:B:3961:PHE:CG	2.52	0.44
1:B:3974:MSE:HB3	1:B:3976:GLU:N	2.32	0.44
1:A:172:GLU:HA	1:A:222:GLY:HA3	1.99	0.44
1:A:185:HIS:H	1:A:186:PRO:CD	2.19	0.44
1:A:385:TYR:OH	1:A:421:LEU:HD23	2.18	0.44
1:A:409:GLN:HG3	1:A:413:PHE:CE2	2.53	0.44
1:A:433:PRO:CB	1:A:1812:LEU:HA	2.48	0.44
1:A:456:VAL:O	1:A:459:ARG:HB2	2.18	0.44
1:A:1282:LEU:HD12	1:A:1282:LEU:HA	1.69	0.44
1:A:1476:HIS:HB2	1:A:1511:ALA:HB2	2.00	0.44
1:A:1752:LEU:HD23	1:A:1752:LEU:HA	1.74	0.44
1:A:2277:LEU:O	1:A:2280:VAL:HB	2.17	0.44
1:A:2310:VAL:O	1:A:2315:VAL:HG21	2.18	0.44
1:A:2320:ALA:HB2	1:A:2367:VAL:HA	1.99	0.44
1:A:3345:PRO:C	1:A:3347:CYS:H	2.25	0.44
1:A:3501:HIS:O	1:A:3505:LEU:HD13	2.18	0.44
1:A:3578:LEU:HD22	1:A:3683:CYS:SG	2.57	0.44
1:A:3739:ILE:CD1	1:A:3749:PRO:HB3	2.48	0.44
1:B:307:GLU:O	1:B:308:LEU:HD13	2.17	0.44
1:B:487:LEU:HD23	1:B:530:LEU:HD12	1.99	0.44
1:B:654:ILE:HG21	1:B:726:LEU:HB3	1.99	0.44
1:B:734:LEU:HA	1:B:734:LEU:HD23	1.52	0.44
1:B:1005:ASP:HB2	1:B:1006:THR:H	1.51	0.44
1:B:1156:GLY:C	1:B:1159:PRO:HD2	2.43	0.44
1:B:1342:MSE:HG2	1:B:1402:LEU:HD23	1.99	0.44
1:B:1651:LYS:HD2	1:B:1684:LEU:HD21	2.00	0.44
1:B:2416:LYS:HE2	1:B:2439:ILE:HG12	1.99	0.44
1:B:3156:PRO:HB2	1:B:3197:LEU:HD12	1.98	0.44
1:B:3477:GLU:O	1:B:3481:SER:HB2	2.17	0.44
1:B:4056:PRO:O	1:B:4058:VAL:N	2.51	0.44
1:A:334:HIS:ND1	1:A:338:LEU:HD21	2.31	0.44
1:A:352:VAL:HG23	1:A:357:LYS:N	2.23	0.44
1:A:368:LEU:O	1:A:420:VAL:HG23	2.17	0.44
1:A:487:LEU:HG	1:A:530:LEU:HD13	2.00	0.44
1:A:658:THR:N	1:A:733:LEU:HD13	2.33	0.44
1:A:939:MSE:SE	1:A:2783:ILE:HG23	2.67	0.44
1:A:1147:LYS:CG	1:A:1180:GLN:HG2	2.47	0.44
1:A:1583:MSE:SE	1:A:1643:MSE:HE3	2.67	0.44
1:A:1802:TYR:O	1:A:1805:PHE:HB2	2.17	0.44
1:A:1908:GLY:CA	1:A:1952:ILE:HG13	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2153:THR:HG1	1:A:2154:GLU:H	1.61	0.44
1:A:2506:LEU:H	1:A:2506:LEU:HG	1.56	0.44
1:A:3583:LEU:CD1	1:A:3733:ARG:HB3	2.43	0.44
1:A:3717:VAL:HG22	1:A:3718:ARG:H	1.83	0.44
1:A:3903:HIS:ND1	1:A:3934:THR:OG1	2.51	0.44
1:B:65:LEU:O	1:B:69:VAL:CB	2.64	0.44
1:B:481:THR:O	1:B:485:GLN:HG2	2.17	0.44
1:B:544:ILE:C	1:B:546:ALA:N	2.75	0.44
1:B:771:ASN:O	1:B:773:LEU:N	2.51	0.44
1:B:797:ASP:OD2	1:B:869:ASN:HB2	2.18	0.44
1:B:1101:PHE:HA	1:B:1104:LEU:HD12	1.98	0.44
1:B:1354:GLU:C	1:B:1356:TRP:N	2.74	0.44
1:B:1373:VAL:HG13	1:B:1374:GLN:HG2	2.00	0.44
1:B:1692:ALA:HA	1:B:1695:LEU:HD12	1.98	0.44
1:B:1949:ILE:HD12	1:B:1952:ILE:CG2	2.35	0.44
1:B:1958:GLU:HA	1:B:1961:PHE:HB3	2.00	0.44
1:B:2271:SER:OG	1:B:2272:VAL:N	2.50	0.44
1:B:2307:MSE:HE1	1:B:2367:VAL:HG11	1.98	0.44
1:B:2359:LYS:H	1:B:2359:LYS:HG3	1.62	0.44
1:B:2917:PRO:HB2	1:B:2918:PRO:HD3	1.99	0.44
1:A:153:PHE:HB2	1:A:157:TYR:HE2	1.82	0.44
1:A:189:MSE:HE3	1:A:193:ALA:HB2	1.99	0.44
1:A:224:LEU:HD22	1:A:248:ILE:HD11	2.00	0.44
1:A:432:THR:HB	1:A:433:PRO:CD	2.48	0.44
1:A:863:GLY:CA	1:A:866:ILE:HD11	2.47	0.44
1:A:1076:LEU:O	1:A:1078:ALA:N	2.51	0.44
1:A:1086:TYR:CE1	1:A:1089:PHE:HB2	2.53	0.44
1:A:1151:ARG:O	1:A:1154:PRO:HD2	2.17	0.44
1:A:1747:LEU:O	1:A:1748:ASP:C	2.58	0.44
1:A:2145:PHE:CE1	1:A:2188:GLU:HB3	2.53	0.44
1:A:2173:ALA:C	1:A:2175:GLU:H	2.25	0.44
1:A:2379:MSE:HE1	1:A:2404:ARG:HD3	1.99	0.44
1:A:3125:ARG:HH21	1:A:3128:LYS:HD2	1.82	0.44
1:A:3835:PRO:HA	1:A:3871:PHE:CE1	2.43	0.44
1:A:3921:GLY:C	1:A:3923:ARG:H	2.24	0.44
1:B:63:PHE:O	1:B:67:VAL:HG23	2.18	0.44
1:B:602:MSE:SE	1:B:726:LEU:CD1	3.14	0.44
1:B:729:CYS:O	1:B:733:LEU:HG	2.17	0.44
1:B:954:GLY:O	1:B:958:MSE:HB3	2.17	0.44
1:B:971:ARG:CG	1:B:972:LEU:N	2.71	0.44
1:B:1025:LEU:CD1	1:B:1028:PHE:HD2	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1108:MSE:HB2	1:B:1132:ASP:OD1	2.17	0.44
1:B:2058:ASP:HB3	1:B:2059:PRO:HD3	1.98	0.44
1:B:2205:VAL:HB	1:B:2206:PRO:HD3	1.99	0.44
1:B:2539:LEU:O	1:B:2542:LEU:HG	2.18	0.44
1:B:3819:THR:HG1	1:B:3889:ARG:NH1	2.09	0.44
1:A:249:PHE:HD1	1:A:265:TYR:CE1	2.36	0.44
1:A:268:PRO:O	1:A:271:GLY:N	2.51	0.44
1:A:430:VAL:HG11	1:A:1682:THR:HG21	2.00	0.44
1:A:530:LEU:H	1:A:530:LEU:HG	1.44	0.44
1:A:1082:PHE:CD1	1:A:1082:PHE:C	2.96	0.44
1:A:1228:GLY:C	1:A:1282:LEU:HD11	2.42	0.44
1:A:1305:ASP:CG	1:A:1334:LYS:HZ2	2.26	0.44
1:A:1340:ARG:O	1:A:1343:GLU:HB3	2.18	0.44
1:A:1433:ALA:O	1:A:1437:TYR:CG	2.71	0.44
1:A:1455:CYS:O	1:A:1458:LEU:N	2.50	0.44
1:A:1504:ASP:HA	1:A:1507:CYS:SG	2.57	0.44
1:A:1913:LYS:C	1:A:1915:LEU:H	2.26	0.44
1:A:2147:ALA:CB	1:A:2151:ILE:HD12	2.47	0.44
1:A:2164:TRP:CE3	1:A:2189:ILE:HD12	2.52	0.44
1:A:2253:TYR:CE1	1:A:2280:VAL:HG22	2.53	0.44
1:A:2320:ALA:HA	1:A:2367:VAL:HG23	1.99	0.44
1:A:3045:ILE:HG21	1:A:3064:PHE:CZ	2.52	0.44
1:A:3073:LEU:H	1:A:3073:LEU:HG	1.63	0.44
1:A:3155:VAL:HG11	1:A:3159:ARG:CZ	2.47	0.44
1:A:3168:TYR:HB3	1:A:3169:PRO:HD3	2.00	0.44
1:A:3283:LEU:O	1:A:3283:LEU:HD22	2.17	0.44
1:A:3305:SER:HA	1:A:3308:ASP:CB	2.45	0.44
1:A:3345:PRO:HB2	1:A:3346:ALA:H	1.58	0.44
1:A:3534:ILE:HG13	1:A:3569:GLN:OE1	2.17	0.44
1:B:180:LEU:HD23	1:B:183:GLU:OE1	2.17	0.44
1:B:222:GLY:O	1:B:223:CYS:C	2.60	0.44
1:B:406:ARG:C	1:B:408:TYR:N	2.75	0.44
1:B:612:LEU:O	1:B:615:ALA:HB3	2.18	0.44
1:B:625:ASN:HA	1:B:666:PHE:CE1	2.53	0.44
1:B:886:TRP:HH2	1:B:958:MSE:HB2	1.82	0.44
1:B:894:PHE:O	1:B:940:PHE:CZ	2.71	0.44
1:B:901:MSE:HE1	1:B:2535:THR:CG2	2.47	0.44
1:B:1485:SER:HA	1:B:1488:TYR:CD2	2.52	0.44
1:B:1568:ASN:OD1	1:B:1568:ASN:N	2.51	0.44
1:B:1906:THR:O	1:B:1910:GLU:HB2	2.18	0.44
1:B:2083:LEU:HD22	1:B:2184:TYR:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2222:HIS:O	1:B:2223:VAL:C	2.60	0.44
1:B:2536:LEU:HA	1:B:2539:LEU:HB2	1.99	0.44
1:B:2817:LEU:HA	1:B:2820:MSE:HE2	1.99	0.44
1:B:2936:TYR:HD2	1:B:3979:LEU:CD2	2.28	0.44
1:B:3103:ILE:HD11	1:B:3138:ILE:HG21	2.00	0.44
1:B:3243:ILE:HG22	1:B:3278:GLN:HE21	1.83	0.44
1:B:3631:LYS:HG3	1:B:3685:PRO:HG2	1.99	0.44
1:B:3720:ALA:HB3	1:B:3741:ARG:O	2.17	0.44
1:B:3771:MSE:O	1:B:3774:ILE:HB	2.17	0.44
1:B:3984:MSE:SE	1:B:4108:MSE:HE2	2.68	0.44
1:B:4013:TRP:CE3	1:B:4014:LYS:HB2	2.53	0.44
1:B:4074:PHE:O	1:B:4077:TYR:HB3	2.17	0.44
1:A:37:GLY:C	1:A:39:GLY:N	2.76	0.44
1:A:82:ARG:HD2	1:A:114:VAL:CG1	2.48	0.44
1:A:452:LYS:O	1:A:455:LEU:HG	2.17	0.44
1:A:760:LEU:CD2	1:A:803:SER:HB3	2.47	0.44
1:A:948:MSE:N	1:A:949:PRO:HD3	2.33	0.44
1:A:1072:ALA:HB1	1:A:1076:LEU:HG	2.00	0.44
1:A:1076:LEU:HA	1:A:1076:LEU:HD23	1.65	0.44
1:A:1387:GLY:HA2	1:A:1392:MSE:HG3	1.99	0.44
1:A:1582:LEU:HA	1:A:1582:LEU:HD23	1.77	0.44
1:A:1722:PHE:HE2	1:A:1754:GLN:HA	1.81	0.44
1:A:1946:ASN:O	1:A:1949:ILE:N	2.31	0.44
1:A:2028:LEU:HB2	1:A:2030:TYR:HE2	1.82	0.44
1:A:2068:ARG:O	1:A:2070:GLU:N	2.50	0.44
1:A:2453:GLU:HA	1:A:2456:ASN:ND2	2.33	0.44
1:A:2936:TYR:CD2	1:A:3979:LEU:HD11	2.52	0.44
1:A:3247:ARG:HB2	1:A:3278:GLN:NE2	2.32	0.44
1:B:78:PHE:O	1:B:81:CYS:N	2.51	0.44
1:B:175:TYR:HB3	1:B:226:GLY:HA3	1.98	0.44
1:B:197:PHE:O	1:B:201:LEU:HG	2.16	0.44
1:B:320:LEU:O	1:B:323:VAL:HB	2.17	0.44
1:B:563:LEU:O	1:B:566:ASP:HB2	2.18	0.44
1:B:571:SER:HB2	1:B:605:THR:H	1.83	0.44
1:B:638:GLN:NE2	1:B:667:TYR:HB3	2.32	0.44
1:B:653:LEU:HA	1:B:653:LEU:HD23	1.50	0.44
1:B:727:ALA:O	1:B:731:THR:HG23	2.18	0.44
1:B:966:PHE:CE1	1:B:969:LEU:HD13	2.53	0.44
1:B:1087:ARG:NE	1:B:1134:LEU:HD22	2.33	0.44
1:B:1424:THR:O	1:B:1426:GLN:N	2.51	0.44
1:B:1913:LYS:HB2	1:B:1916:ILE:HB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2074:PRO:O	1:B:2075:THR:C	2.60	0.44
1:B:2177:ASN:HB2	1:B:2182:ILE:HG23	1.99	0.44
1:B:2211:LEU:H	1:B:2211:LEU:HG	1.49	0.44
1:B:2224:PHE:CE2	1:B:2259:LYS:HD3	2.53	0.44
1:B:2318:ALA:O	1:B:2322:VAL:HB	2.18	0.44
1:B:2505:VAL:O	1:B:2508:GLN:N	2.50	0.44
1:B:3413:TYR:CD1	1:B:3449:LYS:HB3	2.53	0.44
1:B:3699:LEU:HD12	1:B:3699:LEU:HA	1.83	0.44
1:A:82:ARG:HH21	1:A:83:GLU:HG3	1.83	0.44
1:A:271:GLY:O	1:A:274:LEU:HD12	2.18	0.44
1:A:294:PHE:HZ	1:A:341:PHE:CZ	2.36	0.44
1:A:973:ALA:HB1	1:A:977:ASP:CG	2.43	0.44
1:A:993:HIS:ND1	1:A:1038:LYS:HE2	2.33	0.44
1:A:1032:CYS:HB3	1:A:1036:PHE:CE2	2.52	0.44
1:A:2183:HIS:HE1	1:A:2237:ILE:HD13	1.82	0.44
1:A:2271:SER:HB2	1:A:2314:GLU:CG	2.47	0.44
1:A:2461:PHE:CE1	1:A:2462:VAL:HG23	2.52	0.44
1:A:3155:VAL:HG11	1:A:3159:ARG:NH1	2.32	0.44
1:A:3186:ARG:HA	1:A:3189:PHE:CD2	2.52	0.44
1:A:3266:SER:HB2	1:A:3271:ASP:OD1	2.17	0.44
1:A:3276:TRP:HB3	1:A:3280:TYR:CE2	2.52	0.44
1:A:3455:LYS:H	1:A:3455:LYS:HG3	1.62	0.44
1:A:3587:ASP:HB3	1:A:4022:LYS:HZ2	1.83	0.44
1:A:3857:LEU:HG	1:A:3859:TYR:CD2	2.53	0.44
1:B:848:LEU:HA	1:B:848:LEU:HD12	1.78	0.44
1:B:928:VAL:HG23	1:B:929:ALA:N	2.33	0.44
1:B:996:THR:C	1:B:998:ASN:H	2.25	0.44
1:B:1334:LYS:HA	1:B:1334:LYS:HD3	1.45	0.44
1:B:1369:MSE:SE	1:B:1418:HIS:ND1	3.01	0.44
1:B:1471:GLN:N	1:B:1471:GLN:OE1	2.51	0.44
1:B:1684:LEU:HD23	1:B:1684:LEU:HA	1.71	0.44
1:B:1761:LEU:HD13	1:B:1860:GLU:OE1	2.18	0.44
1:B:1999:GLU:HB3	1:B:2051:SER:HB3	2.00	0.44
1:B:2056:SER:C	1:B:2057:GLN:HG3	2.42	0.44
1:B:2093:CYS:CA	1:B:2096:PRO:HD2	2.48	0.44
1:B:2232:ARG:O	1:B:2234:ASN:N	2.51	0.44
1:B:2854:PHE:HZ	1:B:2881:LEU:HB2	1.81	0.44
1:B:2886:GLN:HG3	1:B:2887:PRO:HD3	1.99	0.44
1:B:2916:LEU:HB3	1:B:2917:PRO:HD3	2.00	0.44
1:B:3475:TYR:HB2	1:B:3479:THR:H	1.83	0.44
1:B:3974:MSE:HB3	1:B:3976:GLU:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3975:LYS:HB2	1:B:3975:LYS:HE3	1.81	0.44
1:A:446:PHE:N	1:A:447:PRO:CD	2.81	0.44
1:A:447:PRO:HD2	1:A:448:GLN:H	1.82	0.44
1:A:1014:LEU:HD23	1:A:1028:PHE:HE2	1.83	0.44
1:A:1733:THR:HG23	1:A:1881:TYR:CE2	2.53	0.44
1:A:2004:TYR:CD1	1:A:2054:TYR:HB3	2.52	0.44
1:A:2021:GLY:N	1:A:2022:PRO:HD2	2.32	0.44
1:A:3720:ALA:HB3	1:A:3741:ARG:O	2.18	0.44
1:A:3960:PRO:HG2	1:A:3961:PHE:CE2	2.52	0.44
1:B:12:LEU:HD21	1:B:41:GLU:HB2	2.00	0.44
1:B:13:LEU:HD22	1:B:61:ARG:HD2	2.00	0.44
1:B:271:GLY:O	1:B:274:LEU:HD12	2.18	0.44
1:B:290:TYR:O	1:B:294:PHE:HB3	2.17	0.44
1:B:393:LYS:O	1:B:397:LEU:HB2	2.18	0.44
1:B:856:VAL:HG21	1:B:3110:PHE:CZ	2.53	0.44
1:B:927:LYS:HE3	1:B:928:VAL:CG1	2.47	0.44
1:B:1017:ILE:HD12	1:B:1025:LEU:HD23	2.00	0.44
1:B:1070:PRO:O	1:B:1073:PHE:CE2	2.71	0.44
1:B:1368:LEU:HA	1:B:1371:VAL:CG1	2.48	0.44
1:B:1937:ARG:O	1:B:1941:HIS:HB2	2.18	0.44
1:B:2028:LEU:HB2	1:B:2030:TYR:HE2	1.81	0.44
1:B:2164:TRP:CH2	1:B:2190:VAL:HG12	2.53	0.44
1:B:2227:LYS:C	1:B:2229:ALA:H	2.26	0.44
1:B:2316:TYR:CE2	1:B:2317:ALA:HB2	2.53	0.44
1:B:2473:MSE:O	1:B:2477:LEU:HG	2.17	0.44
1:B:2983:ASP:O	1:B:2986:PRO:HD2	2.18	0.44
1:B:3109:SER:O	1:B:3112:GLN:HB3	2.17	0.44
1:B:3842:TRP:HA	1:B:3845:LYS:HB2	2.00	0.44
1:A:12:LEU:HD21	1:A:41:GLU:HB2	2.00	0.43
1:A:266:ALA:HB2	1:A:308:LEU:HG	1.99	0.43
1:A:360:SER:O	1:A:363:ILE:HB	2.18	0.43
1:A:646:VAL:HG11	1:A:710:PHE:CG	2.54	0.43
1:A:764:PRO:HB2	1:A:848:LEU:HD11	2.00	0.43
1:A:992:ILE:CD1	1:A:1035:GLU:HB2	2.48	0.43
1:A:1017:ILE:HB	1:A:1025:LEU:HB2	2.00	0.43
1:A:1073:PHE:HD1	1:A:1074:LYS:N	2.06	0.43
1:A:1163:LEU:HA	1:A:1260:LEU:HD21	2.00	0.43
1:A:1364:CYS:C	1:A:1366:THR:H	2.25	0.43
1:A:1471:GLN:O	1:A:1475:LEU:CB	2.51	0.43
1:A:1762:MSE:SE	1:A:1896:ILE:HG12	2.67	0.43
1:A:1804:MSE:HE1	1:A:1822:ARG:HH11	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1945:TYR:O	1:A:1948:ALA:HB3	2.18	0.43
1:A:3008:TRP:CG	1:A:3009:LYS:H	2.36	0.43
1:A:3092:LEU:HD22	1:A:3192:LYS:HE3	2.00	0.43
1:A:3259:LEU:HD21	1:A:3279:SER:HB2	1.99	0.43
1:A:3810:VAL:O	1:A:3929:MSE:HG3	2.18	0.43
1:A:3887:PHE:HZ	1:A:3904:PHE:CE2	2.36	0.43
1:A:3908:HIS:O	1:A:3911:ILE:HG12	2.17	0.43
1:A:3915:HIS:CD2	1:A:3920:ILE:HD12	2.53	0.43
1:A:3961:PHE:CZ	1:A:3963:LEU:HD13	2.53	0.43
1:A:3977:THR:C	1:A:3979:LEU:H	2.26	0.43
1:B:13:LEU:HA	1:B:16:GLN:HG2	2.00	0.43
1:B:70:ARG:HG3	1:B:78:PHE:CB	2.48	0.43
1:B:217:LEU:HB3	1:B:264:ARG:HG3	2.00	0.43
1:B:280:SER:O	1:B:322:GLN:HG2	2.17	0.43
1:B:733:LEU:O	1:B:737:PRO:HG3	2.18	0.43
1:B:1015:ASP:HA	1:B:1018:VAL:CG2	2.47	0.43
1:B:1079:SER:O	1:B:1082:PHE:HB3	2.17	0.43
1:B:1153:LEU:HB3	1:B:1154:PRO:HD3	2.01	0.43
1:B:1218:SER:OG	1:B:1219:PHE:N	2.51	0.43
1:B:1876:ILE:O	1:B:1876:ILE:HG12	2.17	0.43
1:B:2554:PHE:O	1:B:2557:LEU:HB2	2.18	0.43
1:B:2923:TRP:CD1	1:B:2931:ARG:HD3	2.53	0.43
1:B:3107:ILE:HG22	1:B:3111:MSE:HE2	1.98	0.43
1:B:3454:LEU:HD21	1:B:3461:ALA:HB2	1.99	0.43
1:B:3610:TYR:O	1:B:3613:MSE:HB3	2.18	0.43
1:B:3631:LYS:HB2	1:B:3685:PRO:HB2	2.00	0.43
1:B:3872:ARG:NH1	1:B:3965:ARG:HH12	2.16	0.43
1:A:681:LYS:HD2	1:A:746:ARG:NE	2.33	0.43
1:A:733:LEU:H	1:A:733:LEU:HG	1.61	0.43
1:A:739:ASN:OD1	1:A:776:TRP:HA	2.19	0.43
1:A:784:VAL:O	1:A:787:PRO:HD2	2.18	0.43
1:A:1067:ALA:HA	1:A:1079:SER:HB2	2.00	0.43
1:A:1073:PHE:CE1	1:A:3745:GLU:HA	2.53	0.43
1:A:1350:ASN:CG	1:A:1405:ALA:HA	2.43	0.43
1:A:1364:CYS:C	1:A:1366:THR:N	2.74	0.43
1:A:1583:MSE:HE1	1:A:1640:GLU:OE2	2.17	0.43
1:A:1733:THR:N	1:A:1734:PRO:HD3	2.33	0.43
1:A:1747:LEU:HD13	1:A:1880:MSE:HE1	2.00	0.43
1:A:1950:SER:O	1:A:2000:ARG:NH1	2.51	0.43
1:A:2285:LEU:O	1:A:2286:PRO:C	2.61	0.43
1:A:2373:PRO:HA	1:A:2378:PHE:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2415:LEU:HD11	1:A:2419:ASP:OD2	2.17	0.43
1:A:2795:GLN:O	1:A:2799:GLN:HG2	2.18	0.43
1:A:2860:ASP:HB3	1:A:2868:LEU:HD22	2.00	0.43
1:A:2963:SER:O	1:A:2967:GLU:HG2	2.18	0.43
1:A:3547:THR:HB	1:A:3548:GLY:O	2.18	0.43
1:A:4057:ALA:C	1:A:4059:ILE:N	2.75	0.43
1:B:185:HIS:O	1:B:186:PRO:C	2.61	0.43
1:B:358:GLU:CG	1:B:359:LEU:N	2.81	0.43
1:B:451:PRO:O	1:B:454:GLN:HB3	2.18	0.43
1:B:572:VAL:HG13	1:B:573:LEU:N	2.33	0.43
1:B:1010:LEU:HA	1:B:1013:ILE:HG12	1.99	0.43
1:B:1039:TRP:CG	1:B:1055:ASN:HB2	2.53	0.43
1:B:1087:ARG:HD3	1:B:1134:LEU:CB	2.38	0.43
1:B:1945:TYR:O	1:B:1948:ALA:N	2.50	0.43
1:B:2110:PRO:HB2	1:B:2111:PRO:HD3	1.99	0.43
1:B:2241:LEU:O	1:B:2242:VAL:C	2.62	0.43
1:B:2286:PRO:HB2	1:B:2289:ASP:CA	2.40	0.43
1:B:2464:HIS:H	1:B:2465:PRO:CD	2.31	0.43
1:B:2927:ALA:HB2	1:B:2930:TYR:CD2	2.52	0.43
1:B:3110:PHE:CD1	1:B:3111:MSE:N	2.86	0.43
1:B:3847:SER:HA	1:B:3857:LEU:HD22	2.00	0.43
1:B:3880:ALA:O	1:B:3884:LYS:HG3	2.18	0.43
1:B:4113:ASP:O	1:B:4116:ILE:N	2.47	0.43
1:A:342:MSE:O	1:A:345:PHE:HB2	2.18	0.43
1:A:348:ILE:HG23	1:A:357:LYS:HE3	1.99	0.43
1:A:929:ALA:O	1:A:933:LEU:HB2	2.18	0.43
1:A:939:MSE:O	1:A:942:LEU:HB3	2.19	0.43
1:A:966:PHE:CE1	1:A:988:VAL:HG12	2.54	0.43
1:A:1365:ASN:O	1:A:1369:MSE:HG2	2.17	0.43
1:A:1577:LEU:HD12	1:A:1578:ALA:HB2	2.01	0.43
1:A:1996:VAL:HG21	1:A:2047:THR:CB	2.48	0.43
1:A:2049:VAL:C	1:A:2051:SER:N	2.76	0.43
1:A:2358:ASP:O	1:A:2361:ILE:HG22	2.18	0.43
1:A:3033:GLU:HB3	1:A:3038:GLU:OE1	2.19	0.43
1:A:3829:LEU:HD12	1:A:3829:LEU:HA	1.70	0.43
1:B:275:PHE:O	1:B:277:LEU:N	2.52	0.43
1:B:352:VAL:HG23	1:B:357:LYS:HG2	2.01	0.43
1:B:554:ASN:O	1:B:558:GLU:OE2	2.37	0.43
1:B:620:PHE:HE2	1:B:641:PHE:CE2	2.37	0.43
1:B:717:LYS:HA	1:B:717:LYS:HD3	1.84	0.43
1:B:785:MSE:HB3	1:B:785:MSE:HE2	1.68	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1107:TYR:CD2	1:B:1131:ILE:HD12	2.53	0.43
1:B:1147:LYS:O	1:B:1151:ARG:NE	2.52	0.43
1:B:1356:TRP:HA	1:B:1356:TRP:CE3	2.52	0.43
1:B:1550:VAL:HG23	1:B:1551:ILE:H	1.83	0.43
1:B:1722:PHE:HB3	1:B:1723:PRO:HD3	1.99	0.43
1:B:2126:MSE:HE2	1:B:2156:VAL:CG2	2.48	0.43
1:B:2171:LEU:HG	1:B:2177:ASN:ND2	2.30	0.43
1:B:2323:LEU:CD2	1:B:2345:VAL:HG21	2.48	0.43
1:B:2408:MSE:HA	1:B:2408:MSE:CE	2.41	0.43
1:B:2788:SER:HA	1:B:2791:ILE:HG13	2.01	0.43
1:B:2923:TRP:CD1	1:B:2926:LEU:HD21	2.53	0.43
1:B:2937:ASP:OD1	1:B:3976:GLU:HA	2.18	0.43
1:B:3008:TRP:H	1:B:3050:LYS:HG2	1.83	0.43
1:A:408:TYR:C	1:A:411:PRO:HD2	2.43	0.43
1:A:732:PHE:HB2	1:A:733:LEU:CD2	2.48	0.43
1:A:1087:ARG:HD3	1:A:1134:LEU:CD2	2.45	0.43
1:A:1373:VAL:C	1:A:1375:THR:N	2.76	0.43
1:A:1652:ILE:CD1	1:A:1713:VAL:HG13	2.48	0.43
1:A:2915:ARG:O	1:A:2938:VAL:HG21	2.19	0.43
1:A:3008:TRP:N	1:A:3050:LYS:HG2	2.33	0.43
1:A:3583:LEU:HD23	1:A:3583:LEU:HA	1.85	0.43
1:B:74:ASN:HB3	1:B:75:SER:H	1.45	0.43
1:B:282:PHE:CD1	1:B:282:PHE:C	2.96	0.43
1:B:389:ILE:HG22	1:B:390:GLN:N	2.33	0.43
1:B:403:GLY:C	1:B:405:ASP:N	2.67	0.43
1:B:485:GLN:O	1:B:488:ILE:HG12	2.19	0.43
1:B:575:ILE:HD12	1:B:604:PRO:O	2.18	0.43
1:B:773:LEU:O	1:B:774:GLU:C	2.61	0.43
1:B:910:PHE:CE2	1:B:941:MSE:SE	3.22	0.43
1:B:981:ARG:HA	1:B:984:TYR:CD2	2.52	0.43
1:B:1633:TRP:NE1	1:B:1697:PRO:HG2	2.33	0.43
1:B:1856:THR:O	1:B:1860:GLU:HB2	2.18	0.43
1:B:2356:MSE:SE	1:B:2360:PHE:CZ	3.21	0.43
1:B:3152:SER:H	1:B:3153:SER:C	2.26	0.43
1:B:3271:ASP:OD2	1:B:3272:TRP:CD1	2.72	0.43
1:B:3480:LEU:HD22	1:B:3516:HIS:HB3	1.99	0.43
1:B:3498:TRP:NE1	1:B:3502:MSE:SE	2.99	0.43
1:B:3904:PHE:HE1	1:B:3967:PHE:HE1	1.66	0.43
1:A:226:GLY:O	1:A:230:LEU:HD23	2.19	0.43
1:A:241:ASP:HB2	1:A:282:PHE:CE2	2.53	0.43
1:A:448:GLN:O	1:A:449:TYR:CD1	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:572:VAL:HG13	1:A:573:LEU:N	2.29	0.43
1:A:963:LYS:HB3	1:A:1009:LEU:CD1	2.48	0.43
1:A:1014:LEU:HB2	1:A:1078:ALA:HA	2.01	0.43
1:A:1076:LEU:C	1:A:1078:ALA:N	2.76	0.43
1:A:1087:ARG:NE	1:A:1134:LEU:HD22	2.32	0.43
1:A:1645:VAL:HG12	1:A:1646:LEU:HD23	2.00	0.43
1:A:1942:CYS:HB2	1:A:1990:PHE:CD1	2.54	0.43
1:A:1970:LYS:HZ1	1:A:2017:GLY:HA3	1.82	0.43
1:A:2359:LYS:O	1:A:2362:VAL:HG22	2.18	0.43
1:A:2365:ASN:HB2	1:A:2400:VAL:HG13	1.99	0.43
1:A:2461:PHE:HE1	1:A:2469:CYS:SG	2.42	0.43
1:A:2462:VAL:C	1:A:2464:HIS:H	2.26	0.43
1:A:2463:SER:O	1:A:2464:HIS:ND1	2.51	0.43
1:A:2794:LEU:HA	1:A:2797:VAL:CG2	2.46	0.43
1:A:3052:LEU:HD23	1:A:3188:PHE:CZ	2.54	0.43
1:A:3144:PHE:CD1	1:A:3144:PHE:C	2.97	0.43
1:A:3253:SER:HA	1:A:3256:MSE:HB2	2.00	0.43
1:B:273:ARG:HA	1:B:318:SER:OG	2.19	0.43
1:B:714:VAL:O	1:B:717:LYS:N	2.52	0.43
1:B:741:ILE:C	1:B:743:LEU:N	2.76	0.43
1:B:754:MSE:O	1:B:755:ALA:C	2.60	0.43
1:B:1082:PHE:CD1	1:B:1082:PHE:C	2.97	0.43
1:B:1401:ASN:O	1:B:1404:LYS:HB3	2.19	0.43
1:B:1916:ILE:O	1:B:1920:TYR:CD1	2.71	0.43
1:B:2040:MSE:HB3	1:B:2040:MSE:HE2	1.96	0.43
1:B:2066:PHE:HB3	1:B:2067:ARG:HG2	2.00	0.43
1:B:2311:ARG:HG3	1:B:2363:CYS:CB	2.43	0.43
1:B:2908:LYS:NZ	1:B:2986:PRO:CG	2.81	0.43
1:B:3403:CYS:C	1:B:3405:PRO:HD2	2.43	0.43
1:B:3656:LEU:O	1:B:3659:PHE:HB2	2.19	0.43
1:B:3908:HIS:CD2	1:B:3967:PHE:CZ	3.06	0.43
1:A:224:LEU:HD13	1:A:248:ILE:HD13	2.01	0.43
1:A:473:PRO:CA	1:A:476:ARG:HH22	2.18	0.43
1:A:619:ASP:O	1:A:620:PHE:C	2.61	0.43
1:A:680:ILE:HG12	1:A:701:TYR:HD1	1.79	0.43
1:A:922:SER:C	1:A:924:ARG:H	2.27	0.43
1:A:1332:TYR:CZ	1:A:1386:ILE:HG22	2.54	0.43
1:A:1565:GLU:HG2	1:A:1566:THR:HG23	2.00	0.43
1:A:1687:HIS:HB3	1:A:1691:GLN:HE22	1.83	0.43
1:A:2012:ARG:HA	1:A:2012:ARG:HD3	1.69	0.43
1:A:2216:LEU:HD22	1:A:2249:LEU:HD21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2473:MSE:O	1:A:2477:LEU:HG	2.17	0.43
1:A:2538:ARG:NH1	1:A:2566:THR:H	2.08	0.43
1:A:2804:ILE:O	1:A:2806:LYS:N	2.46	0.43
1:A:3506:LEU:HD11	1:A:3555:VAL:HG13	2.00	0.43
1:A:3835:PRO:HB2	1:A:3836:PRO:HD3	2.00	0.43
1:A:3842:TRP:CZ3	1:A:3843:LEU:HD23	2.53	0.43
1:B:334:HIS:ND1	1:B:338:LEU:HD21	2.33	0.43
1:B:390:GLN:NE2	1:B:1724:MSE:HB2	2.33	0.43
1:B:669:LEU:HA	1:B:669:LEU:HD23	1.74	0.43
1:B:913:ARG:CB	1:B:934:LEU:HD12	2.48	0.43
1:B:1165:LEU:O	1:B:1168:LEU:N	2.50	0.43
1:B:1174:ALA:O	1:B:1178:ARG:HB2	2.18	0.43
1:B:1256:TRP:O	1:B:1259:LEU:N	2.51	0.43
1:B:1266:CYS:O	1:B:1270:PHE:CD2	2.72	0.43
1:B:1920:TYR:O	1:B:1923:PHE:HB3	2.18	0.43
1:B:2083:LEU:HD13	1:B:2184:TYR:HE2	1.83	0.43
1:B:2517:LEU:HA	1:B:2520:ILE:HG22	2.00	0.43
1:B:2557:LEU:HB3	1:B:2561:PHE:CZ	2.53	0.43
1:B:2936:TYR:CD2	1:B:3979:LEU:HD11	2.54	0.43
1:B:2960:GLU:CD	1:B:3289:ARG:NH1	2.68	0.43
1:B:3572:ILE:CA	1:B:3575:LEU:HB3	2.49	0.43
1:B:3789:ARG:HB3	1:B:3938:ILE:CG2	2.49	0.43
1:B:3944:HIS:NE2	1:B:3948:SER:O	2.51	0.43
1:B:4075:ARG:O	1:B:4078:VAL:HG22	2.19	0.43
2:S:212:UNK:O	2:S:215:UNK:N	2.52	0.43
1:A:257:ARG:N	1:A:258:PRO:CD	2.81	0.43
1:A:474:VAL:HG21	1:A:1564:SER:OG	2.19	0.43
1:A:562:HIS:O	1:A:562:HIS:ND1	2.50	0.43
1:A:742:GLU:HB3	1:A:783:HIS:CG	2.54	0.43
1:A:1112:ALA:HA	1:A:1115:HIS:CE1	2.54	0.43
1:A:1153:LEU:HB3	1:A:1154:PRO:HD3	2.00	0.43
1:A:1253:THR:HB	1:A:1254:LEU:HG	2.00	0.43
1:A:1330:TYR:CE1	1:A:1334:LYS:HE3	2.53	0.43
1:A:1407:LYS:HD3	1:A:1461:ALA:C	2.43	0.43
1:A:1433:ALA:HB1	1:A:1437:TYR:CZ	2.53	0.43
1:A:1808:ASP:CB	1:A:1814:PHE:HB3	2.30	0.43
1:A:2009:LYS:O	1:A:2010:GLU:HG3	2.18	0.43
1:A:2192:THR:HA	1:A:2195:SER:OG	2.19	0.43
1:A:2446:LEU:C	1:A:2451:LEU:HG	2.44	0.43
1:A:2876:VAL:HG22	1:A:3035:PHE:CZ	2.53	0.43
1:A:3241:LYS:C	1:A:3243:ILE:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3272:TRP:CE3	1:A:3307:LEU:HD21	2.53	0.43
1:A:3283:LEU:HG	1:A:3300:VAL:CG2	2.48	0.43
1:A:3344:GLU:HB2	1:A:3348:LEU:CD1	2.48	0.43
1:A:3359:ILE:CG2	1:A:3391:ALA:HB3	2.48	0.43
1:A:3427:GLU:OE1	1:A:3435:ASP:HB3	2.19	0.43
1:B:767:GLU:HG3	1:B:851:ILE:HD11	2.01	0.43
1:B:892:LEU:HD23	1:B:907:LEU:HD13	2.01	0.43
1:B:963:LYS:CG	1:B:1009:LEU:HD11	2.49	0.43
1:B:1091:GLU:CG	1:B:1137:ILE:HD13	2.49	0.43
1:B:1214:GLU:O	1:B:1218:SER:OG	2.23	0.43
1:B:1256:TRP:C	1:B:1260:LEU:HG	2.44	0.43
1:B:1349:LEU:HA	1:B:1353:PRO:CD	2.45	0.43
1:B:1353:PRO:HA	1:B:1358:LEU:CB	2.48	0.43
1:B:1725:GLN:O	1:B:1725:GLN:HG2	2.18	0.43
1:B:1904:CYS:O	1:B:1905:ILE:C	2.62	0.43
1:B:1989:ASN:HB3	1:B:2040:MSE:HE2	2.01	0.43
1:B:1991:PRO:HA	1:B:1994:VAL:HG12	2.00	0.43
1:B:2071:GLN:HA	1:B:2074:PRO:HG2	2.01	0.43
1:B:2257:PHE:CD1	1:B:2299:TYR:HB3	2.54	0.43
1:B:2437:ASP:O	1:B:2440:TYR:HB3	2.18	0.43
1:B:2515:PRO:HG2	1:B:2518:GLN:HE22	1.84	0.43
1:B:2548:PRO:O	1:B:2550:ILE:HG13	2.19	0.43
1:B:2987:THR:OG1	1:B:2991:LYS:HB2	2.19	0.43
1:B:3179:TRP:HZ2	1:B:3258:LEU:HG	1.83	0.43
1:B:3287:ARG:NH1	1:B:3328:ILE:HA	2.33	0.43
1:B:3319:ASN:O	1:B:3323:PHE:CD2	2.71	0.43
1:B:3498:TRP:HE1	1:B:3502:MSE:CG	2.32	0.43
1:B:3499:ILE:HD13	1:B:3499:ILE:HA	1.76	0.43
1:B:3630:ARG:O	1:B:3634:GLN:N	2.50	0.43
1:B:3696:ARG:HB2	1:B:3699:LEU:CB	2.48	0.43
1:A:175:TYR:CZ	1:A:204:LEU:HD11	2.54	0.43
1:A:342:MSE:O	1:A:342:MSE:HG2	2.17	0.43
1:A:568:PHE:HZ	1:A:653:LEU:HG	1.84	0.43
1:A:798:GLY:O	1:A:801:LYS:HE2	2.19	0.43
1:A:901:MSE:HE1	1:A:2539:LEU:HD21	2.00	0.43
1:A:937:MSE:HA	1:A:940:PHE:CD1	2.53	0.43
1:A:984:TYR:O	1:A:988:VAL:HG13	2.19	0.43
1:A:1116:ALA:CB	1:A:1164:CYS:HB3	2.49	0.43
1:A:1508:LYS:NZ	1:A:1516:GLU:HG3	2.33	0.43
1:A:2239:LYS:NZ	2:K:109:UNK:O	2.35	0.43
1:A:2312:TYR:O	1:A:2315:VAL:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2837:LEU:HG	1:A:2837:LEU:H	1.51	0.43
1:A:3252:PHE:HA	1:A:3282:ARG:CZ	2.48	0.43
1:A:3884:LYS:N	1:A:3970:LEU:HD12	2.34	0.43
1:A:3955:VAL:O	1:A:3955:VAL:HG13	2.18	0.43
1:A:4066:LEU:CD2	1:A:4075:ARG:HG3	2.45	0.43
1:B:14:ARG:O	1:B:18:THR:HG23	2.18	0.43
1:B:197:PHE:CE1	1:B:230:LEU:HD22	2.53	0.43
1:B:224:LEU:O	1:B:228:SER:OG	2.34	0.43
1:B:458:CYS:HA	1:B:461:ILE:HD12	2.01	0.43
1:B:575:ILE:HG21	1:B:603:ILE:C	2.44	0.43
1:B:766:ALA:HB1	1:B:768:VAL:HG23	2.00	0.43
1:B:948:MSE:N	1:B:949:PRO:HD3	2.34	0.43
1:B:993:HIS:CB	1:B:1038:LYS:HG2	2.37	0.43
1:B:1038:LYS:HD2	1:B:1038:LYS:HA	1.85	0.43
1:B:1871:MSE:CA	1:B:1874:TYR:HB2	2.45	0.43
1:B:2138:VAL:HA	1:B:2141:ASN:ND2	2.34	0.43
1:B:2276:LEU:O	1:B:2279:ILE:HB	2.18	0.43
1:B:2401:VAL:O	1:B:2405:VAL:HG13	2.19	0.43
1:B:2433:LYS:O	1:B:2436:LEU:N	2.44	0.43
1:B:2443:MSE:HB3	1:B:2480:ILE:CG1	2.43	0.43
1:B:2510:LEU:HG	1:B:2522:ARG:HE	1.84	0.43
1:B:2575:PRO:HG3	1:B:2789:SER:OG	2.18	0.43
1:B:2908:LYS:HZ1	1:B:2986:PRO:CG	2.32	0.43
1:B:2989:ALA:HA	1:B:2992:ASP:HB2	1.99	0.43
1:B:3329:LEU:HD23	1:B:3329:LEU:HA	1.80	0.43
1:B:3531:TYR:CD2	1:B:3707:GLY:HA3	2.53	0.43
1:B:3788:LEU:HD12	1:B:3788:LEU:HA	1.74	0.43
1:B:3979:LEU:C	1:B:3981:TYR:N	2.72	0.43
1:A:175:TYR:HA	1:A:178:LEU:HD12	2.00	0.43
1:A:514:VAL:CG1	1:A:610:ALA:HB1	2.49	0.43
1:A:745:VAL:HG11	1:A:776:TRP:CZ2	2.54	0.43
1:A:763:THR:N	1:A:764:PRO:HD3	2.34	0.43
1:A:981:ARG:CG	1:A:982:GLN:N	2.81	0.43
1:A:996:THR:O	1:A:1042:LYS:HG2	2.19	0.43
1:A:1883:ARG:HG3	1:A:1884:LEU:N	2.33	0.43
1:A:1949:ILE:CD1	1:A:1952:ILE:HG21	2.48	0.43
1:A:2379:MSE:SE	1:A:2404:ARG:HD3	2.69	0.43
1:A:2439:ILE:O	1:A:2441:LYS:N	2.52	0.43
1:A:3155:VAL:N	1:A:3156:PRO:CD	2.82	0.43
1:A:3314:SER:HB2	1:A:3315:TYR:O	2.19	0.43
1:A:3495:PHE:HA	1:A:3498:TRP:CZ2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3651:LEU:HA	1:A:3654:MSE:HE3	2.01	0.43
1:B:103:TYR:O	1:B:106:GLU:HB2	2.19	0.43
1:B:125:ILE:H	1:B:126:PRO:HD2	1.84	0.43
1:B:130:LEU:HA	1:B:130:LEU:HD12	1.65	0.43
1:B:385:TYR:HA	1:B:388:LEU:HB3	2.00	0.43
1:B:892:LEU:HD11	1:B:958:MSE:CG	2.49	0.43
1:B:933:LEU:HD11	1:B:2795:GLN:OE1	2.19	0.43
1:B:1222:ASN:O	1:B:1225:GLU:HB2	2.18	0.43
1:B:2157:PHE:O	1:B:2158:ARG:C	2.61	0.43
1:B:2253:TYR:HA	1:B:2256:ILE:HB	2.01	0.43
1:B:2526:SER:O	1:B:2530:ARG:HB3	2.19	0.43
1:B:2841:ASN:HD22	1:B:2871:LEU:HD23	1.84	0.43
1:B:2943:PHE:CE2	1:B:2944:THR:HG23	2.54	0.43
1:B:3174:ASP:OD2	1:B:3783:GLN:HG3	2.19	0.43
1:B:3262:LEU:HD12	1:B:3266:SER:OG	2.18	0.43
1:B:3424:LEU:CD1	1:B:3439:LEU:HD11	2.49	0.43
1:B:3480:LEU:HB3	1:B:3516:HIS:HB2	2.01	0.43
1:B:3525:TYR:O	1:B:3529:ILE:HB	2.19	0.43
1:B:3984:MSE:O	1:B:3987:ALA:HB3	2.18	0.43
1:B:4020:MSE:HE3	1:B:4027:TRP:HE1	1.84	0.43
1:A:47:SER:O	1:A:51:LEU:HB2	2.19	0.43
1:A:70:ARG:CD	1:A:82:ARG:HD3	2.38	0.43
1:A:184:VAL:O	1:A:185:HIS:CG	2.72	0.43
1:A:398:THR:C	1:A:400:THR:N	2.74	0.43
1:A:435:LEU:O	1:A:439:VAL:HG23	2.19	0.43
1:A:437:HIS:ND1	1:A:1813:SER:OG	2.52	0.43
1:A:634:LEU:HD22	1:A:667:TYR:CD1	2.53	0.43
1:A:922:SER:OG	1:A:925:GLN:OE1	2.19	0.43
1:A:939:MSE:HA	1:A:939:MSE:HE3	2.01	0.43
1:A:1133:HIS:ND1	1:A:1136:ARG:HD2	2.34	0.43
1:A:1733:THR:HG22	1:A:1878:ASP:CG	2.44	0.43
1:A:2010:GLU:C	1:A:2012:ARG:N	2.76	0.43
1:A:2399:GLU:HA	1:A:2402:LEU:HD23	2.01	0.43
1:A:3141:PHE:CE1	1:A:3193:ILE:HG13	2.49	0.43
1:A:3167:ARG:HG2	1:A:3186:ARG:NH2	2.33	0.43
1:A:3617:LEU:CD1	1:A:3644:PHE:HD2	2.30	0.43
1:A:3908:HIS:CD2	1:A:3912:CYS:SG	3.12	0.43
1:A:3917:ILE:O	1:A:4048:LYS:HE2	2.19	0.43
1:A:3951:GLN:NE2	1:A:4068:HIS:CE1	2.87	0.43
1:A:4074:PHE:O	1:A:4077:TYR:HB3	2.19	0.43
1:B:348:ILE:O	1:B:364:ARG:HD3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:396:PHE:CE1	1:B:397:LEU:HG	2.54	0.43
1:B:408:TYR:O	1:B:411:PRO:HD2	2.19	0.43
1:B:560:LEU:HA	1:B:563:LEU:HD12	2.00	0.43
1:B:719:LYS:HE3	1:B:750:PRO:HB2	2.01	0.43
1:B:1017:ILE:HA	1:B:1021:VAL:O	2.18	0.43
1:B:1027:ASP:O	1:B:1031:ARG:HG2	2.19	0.43
1:B:1274:ARG:C	1:B:1276:VAL:H	2.27	0.43
1:B:1296:PHE:CE1	1:B:1362:ASP:HB2	2.53	0.43
1:B:1296:PHE:CZ	1:B:1362:ASP:HB2	2.54	0.43
1:B:1449:ALA:O	1:B:1453:SER:OG	2.28	0.43
1:B:1874:TYR:CE1	1:B:1881:TYR:CG	3.06	0.43
1:B:2167:PRO:CB	1:B:2171:LEU:HD22	2.47	0.43
1:B:2461:PHE:HA	1:B:2464:HIS:ND1	2.34	0.43
1:B:2858:ILE:HG23	1:B:3894:PRO:HG3	2.00	0.43
1:B:2871:LEU:O	1:B:2873:PRO:HD3	2.19	0.43
1:B:2879:GLY:CA	1:B:2886:GLN:HG2	2.31	0.43
1:B:3020:ASP:OD2	1:B:3024:PRO:HA	2.18	0.43
1:B:3176:MSE:C	1:B:3178:ILE:N	2.76	0.43
1:B:3179:TRP:O	1:B:3179:TRP:CG	2.71	0.43
1:B:3266:SER:HB3	1:B:3271:ASP:HB2	2.01	0.43
1:B:3550:LYS:HZ1	1:B:3554:PHE:HD2	1.59	0.43
1:B:3575:LEU:HB2	1:B:3686:TRP:CZ3	2.54	0.43
1:B:3830:SER:O	1:B:3833:ARG:N	2.50	0.43
1:B:3989:ARG:HE	1:B:4100:GLU:HB3	1.83	0.43
1:B:4003:ASP:O	1:B:4006:VAL:HG22	2.19	0.43
1:A:194:GLU:HA	1:A:197:PHE:CD2	2.51	0.42
1:A:446:PHE:CD1	1:A:446:PHE:N	2.75	0.42
1:A:595:ASP:C	1:A:598:PRO:HD2	2.43	0.42
1:A:892:LEU:HG	1:A:958:MSE:SE	2.69	0.42
1:A:971:ARG:HD2	1:A:1024:THR:OG1	2.18	0.42
1:A:1073:PHE:HD1	1:A:1074:LYS:CG	2.31	0.42
1:A:1305:ASP:OD1	1:A:1334:LYS:HD2	2.18	0.42
1:A:1732:GLY:C	1:A:1734:PRO:HD3	2.44	0.42
1:A:1913:LYS:O	1:A:1915:LEU:N	2.52	0.42
1:A:2299:TYR:O	1:A:2302:ALA:HB3	2.19	0.42
1:A:2645:UNK:HA	1:A:2649:UNK:O	2.20	0.42
1:A:3049:LEU:HA	1:A:3188:PHE:HZ	1.82	0.42
1:A:3076:ALA:HB1	1:A:3080:LEU:CD1	2.48	0.42
1:A:3144:PHE:HZ	1:A:3193:ILE:HD11	1.84	0.42
1:A:3619:ASP:O	1:A:3625:LEU:HB2	2.19	0.42
1:A:3675:LYS:N	1:A:3676:PRO:HD2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3690:PHE:CD1	1:A:3692:VAL:HG23	2.54	0.42
1:A:3906:SER:O	1:A:3910:LEU:HD13	2.18	0.42
1:A:3955:VAL:CG1	1:A:4027:TRP:HE1	2.25	0.42
1:A:4113:ASP:HB3	1:A:4116:ILE:HG13	2.00	0.42
1:B:146:GLU:HG3	1:B:149:ILE:HD12	2.00	0.42
1:B:381:VAL:HB	1:B:384:MSE:SE	2.68	0.42
1:B:432:THR:HB	1:B:433:PRO:CD	2.48	0.42
1:B:526:ASP:HB2	1:B:529:ASP:CG	2.44	0.42
1:B:856:VAL:HG11	1:B:3110:PHE:CZ	2.54	0.42
1:B:886:TRP:NE1	1:B:889:GLU:H	2.16	0.42
1:B:963:LYS:O	1:B:967:PRO:HD3	2.20	0.42
1:B:1033:ILE:HD11	1:B:1089:PHE:HE2	1.84	0.42
1:B:1108:MSE:O	1:B:1109:GLU:C	2.62	0.42
1:B:1455:CYS:HA	1:B:1458:LEU:HD12	2.00	0.42
1:B:1643:MSE:C	1:B:1645:VAL:N	2.76	0.42
1:B:1718:ILE:CG2	1:B:1750:LEU:HD11	2.40	0.42
1:B:1812:LEU:HD13	1:B:1814:PHE:HD2	1.84	0.42
1:B:1981:LEU:HA	1:B:1984:LEU:CD2	2.48	0.42
1:B:2452:ARG:O	1:B:2455:LEU:HB2	2.18	0.42
1:B:2804:ILE:O	1:B:2806:LYS:N	2.50	0.42
1:B:3104:GLN:O	1:B:3107:ILE:HB	2.19	0.42
1:B:3166:ASN:C	1:B:3169:PRO:HD2	2.44	0.42
1:B:3252:PHE:CE2	1:B:3289:ARG:NH2	2.87	0.42
1:B:3390:GLN:O	1:B:3394:GLU:HB2	2.18	0.42
1:B:3483:MSE:O	1:B:3486:GLU:HG2	2.19	0.42
1:B:3525:TYR:HA	1:B:3529:ILE:CG2	2.49	0.42
1:B:3985:VAL:O	1:B:3988:LEU:N	2.51	0.42
1:B:4077:TYR:CG	1:B:4119:ARG:NH2	2.87	0.42
1:B:4093:GLU:O	1:B:4095:GLU:HG2	2.19	0.42
1:A:262:LEU:H	1:A:262:LEU:HG	1.62	0.42
1:A:293:LEU:HA	1:A:296:VAL:HG12	2.00	0.42
1:A:349:ILE:HD12	1:A:368:LEU:HD12	1.99	0.42
1:A:361:ILE:HG21	1:A:1858:LEU:HD23	2.01	0.42
1:A:1812:LEU:O	1:A:1815:THR:HG23	2.19	0.42
1:A:1882:SER:O	1:A:1885:PRO:HD2	2.19	0.42
1:A:2070:GLU:CG	1:A:2072:ARG:HG3	2.33	0.42
1:A:2251:ILE:HG23	1:A:2288:TYR:HD2	1.84	0.42
1:A:2358:ASP:HB3	1:A:2389:PHE:CE1	2.54	0.42
1:A:2552:VAL:HG22	1:A:2553:HIS:ND1	2.35	0.42
1:A:2943:PHE:O	1:A:2945:SER:N	2.45	0.42
1:A:3174:ASP:HA	1:A:3249:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3397:GLN:HE21	1:A:3413:TYR:HD1	1.63	0.42
1:A:3435:ASP:O	1:A:3439:LEU:HB2	2.18	0.42
1:A:3564:GLN:C	1:A:3566:GLY:N	2.77	0.42
1:A:3583:LEU:HD22	1:A:3587:ASP:OD2	2.19	0.42
1:B:44:LEU:H	1:B:44:LEU:HG	1.71	0.42
1:B:138:PHE:HD2	1:B:173:LYS:CE	2.25	0.42
1:B:346:TYR:HA	1:B:349:ILE:HD12	2.01	0.42
1:B:487:LEU:CD2	1:B:530:LEU:HB2	2.49	0.42
1:B:560:LEU:HB2	1:B:616:LYS:HG2	2.01	0.42
1:B:771:ASN:C	1:B:773:LEU:H	2.25	0.42
1:B:775:GLU:O	1:B:779:TYR:CD2	2.70	0.42
1:B:970:LEU:CD2	1:B:1031:ARG:NH2	2.78	0.42
1:B:1157:PHE:HB3	1:B:1169:VAL:HG22	2.02	0.42
1:B:1244:LEU:HD13	1:B:3698:GLU:CD	2.44	0.42
1:B:1263:ALA:HB1	1:B:1267:TYR:HE1	1.84	0.42
1:B:1363:LEU:C	1:B:1365:ASN:H	2.26	0.42
1:B:1389:VAL:O	1:B:1389:VAL:HG12	2.19	0.42
1:B:1727:ARG:O	1:B:1730:PRO:HD2	2.19	0.42
1:B:1977:ILE:C	1:B:1979:GLU:N	2.72	0.42
1:B:1992:VAL:HG11	1:B:2044:ASP:OD1	2.19	0.42
1:B:2125:TRP:CZ3	1:B:2129:LEU:HD21	2.55	0.42
1:B:2255:LEU:HD12	1:B:2258:GLU:HB2	2.01	0.42
1:B:2291:GLN:O	1:B:2294:ILE:N	2.53	0.42
1:B:2320:ALA:CA	1:B:2367:VAL:HG23	2.49	0.42
1:B:2325:LEU:O	1:B:2329:TYR:HB2	2.18	0.42
1:B:2776:ARG:H	1:B:2776:ARG:HG2	1.59	0.42
1:B:3047:SER:HB2	1:B:3050:LYS:CE	2.48	0.42
1:B:3470:GLN:HG2	1:B:3474:ARG:HH11	1.83	0.42
1:B:3987:ALA:O	1:B:3991:PHE:HD1	2.01	0.42
1:B:4019:LYS:HE2	1:B:4019:LYS:HA	2.01	0.42
2:S:212:UNK:C	2:S:214:UNK:N	2.82	0.42
1:A:14:ARG:HH12	1:A:2392:VAL:HG11	1.83	0.42
1:A:99:LYS:C	1:A:100:ILE:HG13	2.43	0.42
1:A:131:LEU:HD23	1:A:135:LEU:HD11	2.02	0.42
1:A:143:LEU:H	1:A:143:LEU:CD1	2.25	0.42
1:A:568:PHE:O	1:A:571:SER:N	2.52	0.42
1:A:658:THR:HA	1:A:733:LEU:CD2	2.38	0.42
1:A:901:MSE:SE	1:A:2536:LEU:HD21	2.69	0.42
1:A:1345:THR:HG22	1:A:1349:LEU:HD12	2.01	0.42
1:A:1798:LEU:O	1:A:1802:TYR:HB2	2.19	0.42
1:A:2167:PRO:HA	1:A:2171:LEU:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2300:PHE:HZ	1:A:2341:LEU:HD22	1.83	0.42
1:A:2462:VAL:HG13	1:A:2470:ARG:HE	1.84	0.42
1:A:3069:MSE:HA	1:A:3072:GLU:HB3	2.02	0.42
1:A:3465:PHE:HD1	1:A:3483:MSE:SE	2.52	0.42
1:A:3557:ARG:O	1:A:3560:SER:HB3	2.19	0.42
1:A:3568:ILE:HG21	1:A:3699:LEU:HD21	2.01	0.42
1:A:3640:PHE:O	1:A:3644:PHE:CG	2.72	0.42
1:A:3972:LEU:HD12	1:A:3974:MSE:HE3	2.01	0.42
1:B:294:PHE:CE2	1:B:298:LEU:HD21	2.55	0.42
1:B:403:GLY:O	1:B:405:ASP:N	2.52	0.42
1:B:557:SER:O	1:B:560:LEU:HG	2.19	0.42
1:B:892:LEU:HD11	1:B:958:MSE:CB	2.49	0.42
1:B:932:GLU:O	1:B:935:HIS:HB3	2.18	0.42
1:B:1163:LEU:CD2	1:B:1260:LEU:HD11	2.47	0.42
1:B:1353:PRO:HG3	1:B:1358:LEU:HB3	2.02	0.42
1:B:1911:LEU:C	1:B:1913:LYS:H	2.24	0.42
1:B:2012:ARG:HA	1:B:2012:ARG:HD3	1.79	0.42
1:B:2171:LEU:CD2	1:B:2177:ASN:HD21	2.32	0.42
1:B:2212:ALA:O	1:B:2213:ASN:C	2.62	0.42
1:B:2424:MSE:HA	1:B:2436:LEU:HD12	2.01	0.42
1:B:2928:LYS:HB3	1:B:3784:ARG:CG	2.49	0.42
1:B:3624:GLY:O	1:B:3625:LEU:HD23	2.19	0.42
1:B:3754:GLY:HA2	1:B:3800:LEU:HB2	2.02	0.42
1:B:3946:PHE:HE2	1:B:4048:LYS:HD2	1.84	0.42
1:A:153:PHE:HA	1:A:156:PHE:CD2	2.54	0.42
1:A:177:LEU:HA	1:A:180:LEU:HD12	2.01	0.42
1:A:438:LEU:HD12	1:A:438:LEU:HA	1.87	0.42
1:A:560:LEU:CB	1:A:616:LYS:HZ3	2.05	0.42
1:A:1475:LEU:O	1:A:1479:VAL:HG23	2.20	0.42
1:A:1632:TRP:N	1:A:1632:TRP:CD1	2.86	0.42
1:A:1968:SER:O	1:A:1971:PRO:HD2	2.19	0.42
1:A:1999:GLU:OE1	1:A:2051:SER:HB2	2.20	0.42
1:A:2023:SER:HB2	1:A:2024:TYR:CE1	2.54	0.42
1:A:2386:LEU:HA	1:A:2386:LEU:HD23	1.75	0.42
1:A:2473:MSE:HE2	1:A:2473:MSE:HB3	1.90	0.42
1:A:2797:VAL:HG12	1:A:2800:ARG:NH1	2.34	0.42
1:A:2926:LEU:HD22	1:A:2931:ARG:NE	2.34	0.42
1:A:3247:ARG:NE	1:A:3278:GLN:OE1	2.50	0.42
1:A:3272:TRP:CZ3	1:A:3307:LEU:HD11	2.55	0.42
1:A:3315:TYR:CG	1:A:3316:LEU:N	2.88	0.42
1:B:88:PHE:HB3	1:B:92:PHE:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:436:GLU:O	1:B:439:VAL:HB	2.20	0.42
1:B:493:LYS:HB3	1:B:494:PRO:HD2	2.00	0.42
1:B:742:GLU:HA	1:B:745:VAL:HG23	2.01	0.42
1:B:971:ARG:O	1:B:974:CYS:HB3	2.19	0.42
1:B:1064:TYR:CD1	1:B:1106:ILE:HD11	2.55	0.42
1:B:1300:SER:O	1:B:1304:HIS:ND1	2.35	0.42
1:B:1493:PRO:O	1:B:1497:ARG:HG2	2.20	0.42
1:B:1596:VAL:HG13	1:B:1597:LEU:H	1.83	0.42
1:B:1608:ARG:O	1:B:1608:ARG:NE	2.51	0.42
1:B:1894:SER:C	1:B:1896:ILE:H	2.28	0.42
1:B:2360:PHE:O	1:B:2364:LEU:HG	2.19	0.42
1:B:2379:MSE:HE1	1:B:2404:ARG:CD	2.42	0.42
1:B:2424:MSE:HA	1:B:2436:LEU:CD1	2.49	0.42
1:B:2908:LYS:HZ1	1:B:2986:PRO:HG3	1.84	0.42
1:B:3005:LEU:O	1:B:3254:LEU:HD21	2.20	0.42
1:B:3251:ASN:ND2	1:B:3254:LEU:HD13	2.35	0.42
1:B:3324:ARG:O	1:B:3328:ILE:HG13	2.20	0.42
1:B:3479:THR:O	1:B:3483:MSE:CB	2.63	0.42
1:B:3501:HIS:ND1	1:B:4008:GLU:OE1	2.52	0.42
1:B:3570:ASP:HA	1:B:3573:ASN:HB3	2.02	0.42
1:B:3612:ARG:O	1:B:3615:ALA:HB3	2.19	0.42
1:B:3704:GLN:HG3	1:B:3796:MSE:SE	2.68	0.42
1:B:3705:TYR:HD2	1:B:3792:SER:HB2	1.84	0.42
1:B:3775:LEU:HD13	1:B:3781:CYS:SG	2.59	0.42
1:B:3819:THR:O	1:B:3823:GLU:HG2	2.18	0.42
1:A:173:LYS:O	1:A:174:VAL:C	2.62	0.42
1:A:367:GLY:O	1:A:369:PHE:N	2.52	0.42
1:A:463:LYS:O	1:A:466:LEU:HB3	2.19	0.42
1:A:481:THR:O	1:A:485:GLN:HG2	2.18	0.42
1:A:560:LEU:HA	1:A:563:LEU:HD12	2.01	0.42
1:A:678:LYS:HB2	1:A:743:LEU:HD13	2.02	0.42
1:A:736:LEU:HA	1:A:739:ASN:HB2	2.02	0.42
1:A:866:ILE:HG21	1:A:3129:LEU:HD22	2.02	0.42
1:A:924:ARG:H	1:A:924:ARG:HG2	1.74	0.42
1:A:1019:ASP:HB2	1:A:1021:VAL:HG23	2.00	0.42
1:A:1238:GLN:HG3	1:A:1298:LEU:HD21	2.01	0.42
1:A:1469:PRO:HG3	1:A:1510:LEU:HD21	2.00	0.42
1:A:1718:ILE:CG2	1:A:1750:LEU:HD11	2.48	0.42
1:A:2068:ARG:C	1:A:2070:GLU:H	2.27	0.42
1:A:2093:CYS:C	1:A:2096:PRO:HD2	2.45	0.42
1:A:2322:VAL:HG12	1:A:2323:LEU:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2367:VAL:O	1:A:2371:PHE:HE1	2.03	0.42
1:A:2548:PRO:O	1:A:2550:ILE:HG13	2.18	0.42
1:A:2869:LEU:HD23	1:A:2893:LEU:HA	2.01	0.42
1:A:2889:GLY:C	1:A:2893:LEU:HD13	2.45	0.42
1:A:2961:ALA:HB3	1:A:3254:LEU:CD1	2.49	0.42
1:A:3343:SER:O	1:A:3345:PRO:HD3	2.19	0.42
1:A:3766:GLN:O	1:A:3770:VAL:HG23	2.20	0.42
1:A:4037:ASN:O	1:A:4037:ASN:ND2	2.53	0.42
1:B:177:LEU:HG	1:B:177:LEU:H	1.63	0.42
1:B:224:LEU:HD13	1:B:248:ILE:HD13	2.00	0.42
1:B:554:ASN:CG	1:B:637:LYS:NZ	2.76	0.42
1:B:575:ILE:HG13	1:B:579:LEU:HD13	2.01	0.42
1:B:957:PRO:O	1:B:961:LEU:HB2	2.20	0.42
1:B:1726:SER:O	1:B:1729:PHE:HB3	2.19	0.42
1:B:1890:HIS:HE1	1:B:1941:HIS:CD2	2.38	0.42
1:B:1952:ILE:HG12	1:B:1953:CYS:N	2.35	0.42
1:B:2555:LEU:HD12	1:B:2556:SER:N	2.32	0.42
1:B:2646:UNK:HA	1:B:2778:GLY:HA3	2.00	0.42
1:B:2794:LEU:HD23	1:B:2794:LEU:HA	1.80	0.42
1:B:2957:LEU:HD21	1:B:4101:GLU:CG	2.50	0.42
1:B:3119:VAL:HG21	1:B:3899:ALA:CB	2.48	0.42
1:B:3330:LEU:C	1:B:3332:THR:N	2.78	0.42
1:B:3629:ARG:NH2	1:B:3638:LYS:HZ1	2.17	0.42
1:B:3631:LYS:HD2	1:B:3681:LYS:O	2.19	0.42
1:B:3791:TYR:OH	1:B:3942:PHE:CE2	2.70	0.42
1:B:3824:GLU:O	1:B:3829:LEU:HD13	2.19	0.42
1:B:3850:HIS:CD2	1:B:3850:HIS:H	2.37	0.42
1:B:4010:SER:C	1:B:4012:ASP:H	2.28	0.42
1:A:154:SER:OG	1:A:181:LEU:HD13	2.19	0.42
1:A:172:GLU:HG3	1:A:173:LYS:N	2.35	0.42
1:A:396:PHE:CZ	1:A:437:HIS:CD2	3.07	0.42
1:A:402:THR:HB	1:A:1763:THR:HB	2.02	0.42
1:A:655:LEU:HA	1:A:658:THR:OG1	2.18	0.42
1:A:774:GLU:OE2	1:A:854:ARG:HB2	2.19	0.42
1:A:899:ARG:HH22	1:A:2570:PRO:HB2	1.83	0.42
1:A:1700:THR:OG1	1:A:1701:SER:N	2.48	0.42
1:A:1890:HIS:CB	1:A:1937:ARG:HD2	2.46	0.42
1:A:1915:LEU:HD12	1:A:1916:ILE:N	2.34	0.42
1:A:2002:LYS:C	1:A:2004:TYR:N	2.65	0.42
1:A:2058:ASP:C	1:A:2061:PRO:HD2	2.44	0.42
1:A:2311:ARG:HG2	1:A:2311:ARG:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2813:PHE:HA	1:A:2816:ILE:CG2	2.47	0.42
1:A:2877:SER:C	1:A:2879:GLY:N	2.78	0.42
1:A:3101:TYR:HE2	1:A:3102:TYR:CE1	2.38	0.42
1:A:3198:THR:OG1	1:A:3199:PRO:HD3	2.19	0.42
1:A:3530:VAL:HG11	1:A:3700:GLU:O	2.18	0.42
1:A:3771:MSE:O	1:A:3775:LEU:HG	2.20	0.42
1:A:3923:ARG:CG	1:A:3962:ARG:HH22	2.00	0.42
1:B:890:LYS:HD3	1:B:890:LYS:HA	1.85	0.42
1:B:898:PHE:HD2	1:B:2566:THR:OG1	2.02	0.42
1:B:1437:TYR:O	1:B:1439:PRO:HD2	2.20	0.42
1:B:1718:ILE:HG23	1:B:1750:LEU:CD1	2.40	0.42
1:B:1751:GLU:H	1:B:1751:GLU:HG3	1.57	0.42
1:B:1763:THR:N	1:B:1864:ASP:OD2	2.52	0.42
1:B:1889:VAL:HG22	1:B:1900:PHE:CE2	2.54	0.42
1:B:2074:PRO:HB2	1:B:2075:THR:H	1.75	0.42
1:B:2168:LEU:H	1:B:2168:LEU:HG	1.56	0.42
1:B:2602:UNK:CB	1:B:2790:LEU:HD23	2.49	0.42
1:B:2776:ARG:HH12	1:B:2779:ASP:CG	2.27	0.42
1:B:2823:PHE:CG	1:B:2824:LYS:N	2.86	0.42
1:B:2900:LEU:HD12	1:B:2905:LEU:HD21	2.02	0.42
1:B:3008:TRP:CG	1:B:3009:LYS:H	2.38	0.42
1:B:3039:THR:O	1:B:3042:PRO:HD2	2.19	0.42
1:B:3141:PHE:HZ	1:B:3192:LYS:CB	2.31	0.42
1:B:3167:ARG:NH1	1:B:3167:ARG:CG	2.71	0.42
1:B:3255:ALA:HB1	1:B:3282:ARG:CZ	2.49	0.42
1:B:3585:PHE:CD1	1:B:3613:MSE:HE1	2.53	0.42
1:B:3588:TRP:NE1	1:B:3609:MSE:O	2.39	0.42
1:B:3763:ARG:HH21	1:B:4009:PRO:HG3	1.85	0.42
1:A:136:GLN:HG2	1:A:139:ARG:HH11	1.84	0.42
1:A:170:VAL:CG2	1:A:173:LYS:HD3	2.47	0.42
1:A:197:PHE:CZ	1:A:230:LEU:HD22	2.54	0.42
1:A:580:ASP:O	1:A:584:GLU:N	2.53	0.42
1:A:742:GLU:OE1	1:A:783:HIS:CD2	2.72	0.42
1:A:867:ASN:C	1:A:869:ASN:N	2.78	0.42
1:A:927:LYS:HE2	1:A:976:VAL:HG12	2.02	0.42
1:A:929:ALA:O	1:A:933:LEU:CB	2.67	0.42
1:A:1002:GLU:O	1:A:1005:ASP:OD2	2.38	0.42
1:A:1056:THR:OG1	1:A:1057:LYS:N	2.51	0.42
1:A:1069:HIS:H	1:A:1070:PRO:CD	2.32	0.42
1:A:1093:GLU:HB3	1:A:1096:VAL:CG1	2.50	0.42
1:A:1360:LYS:H	1:A:1360:LYS:HG3	1.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1372:LEU:HG	1:A:1418:HIS:HE1	1.85	0.42
1:A:1737:ASN:C	1:A:1739:TYR:N	2.69	0.42
1:A:1817:GLN:NE2	1:A:1821:ASP:HB2	2.35	0.42
1:A:1960:LYS:HB2	1:A:1998:MSE:SE	2.70	0.42
1:A:2065:ARG:HB3	1:A:2125:TRP:HD1	1.82	0.42
1:A:2292:CYS:CB	1:A:2300:PHE:HB2	2.38	0.42
1:A:2375:ALA:HB1	1:A:2411:LEU:CD2	2.49	0.42
1:A:2433:LYS:O	1:A:2436:LEU:N	2.46	0.42
1:A:2434:VAL:O	1:A:2438:ILE:HG13	2.19	0.42
1:A:2990:GLU:O	1:A:2994:TRP:CD1	2.72	0.42
1:A:3181:ASP:HA	1:A:3184:THR:HG23	2.02	0.42
1:A:3450:MSE:O	1:A:3454:LEU:HG	2.20	0.42
1:A:3513:ALA:O	1:A:3518:VAL:HB	2.20	0.42
1:A:3575:LEU:O	1:A:3686:TRP:HH2	2.03	0.42
1:A:3619:ASP:N	1:A:3620:PRO:HD2	2.34	0.42
1:A:3745:GLU:O	1:A:3745:GLU:HG2	2.20	0.42
1:A:3806:LEU:HG	1:A:3807:GLU:N	2.33	0.42
1:A:3839:TYR:CE2	1:A:3843:LEU:HD11	2.54	0.42
1:A:3955:VAL:HG22	1:A:3957:GLU:HG3	2.01	0.42
1:B:38:LEU:HD13	1:B:62:ASP:OD2	2.20	0.42
1:B:306:VAL:HG23	1:B:308:LEU:C	2.44	0.42
1:B:558:GLU:HA	1:B:561:ASN:ND2	2.35	0.42
1:B:576:VAL:HG13	1:B:601:TRP:CE3	2.41	0.42
1:B:627:VAL:CG1	1:B:628:GLU:N	2.81	0.42
1:B:963:LYS:HG3	1:B:1009:LEU:HD11	2.00	0.42
1:B:1580:LEU:HD13	1:B:1639:LEU:HB3	2.00	0.42
1:B:1655:ILE:HD12	1:B:1655:ILE:H	1.85	0.42
1:B:1679:LEU:O	1:B:1683:LYS:HG3	2.19	0.42
1:B:2255:LEU:HD13	1:B:2258:GLU:OE1	2.20	0.42
1:B:2405:VAL:HB	1:B:2439:ILE:CD1	2.49	0.42
1:B:2411:LEU:HG	1:B:2412:TYR:N	2.35	0.42
1:B:2474:TYR:O	1:B:2478:MSE:HG3	2.19	0.42
1:B:2520:ILE:HG13	1:B:2524:PHE:CE2	2.55	0.42
1:B:2637:UNK:O	1:B:2641:UNK:CB	2.67	0.42
1:B:2933:ILE:HG22	1:B:2937:ASP:OD2	2.20	0.42
1:B:3258:LEU:HD22	1:B:3258:LEU:HA	1.75	0.42
1:B:3427:GLU:HG3	1:B:3439:LEU:HD13	2.01	0.42
1:B:3522:THR:OG1	1:B:3558:ILE:HD11	2.20	0.42
1:B:3816:LEU:HD23	1:B:3816:LEU:HA	1.84	0.42
2:S:114:UNK:O	2:S:116:UNK:N	2.53	0.42
1:A:35:ILE:HG21	1:A:84:GLU:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:453:MSE:SE	1:A:456:VAL:HG11	2.70	0.42
1:A:781:ASP:OD2	1:A:862:LEU:HD21	2.20	0.42
1:A:961:LEU:HD13	1:A:961:LEU:HA	1.81	0.42
1:A:1022:ASP:CG	1:A:1023:SER:N	2.78	0.42
1:A:1463:LEU:O	1:A:1467:ILE:HG12	2.20	0.42
1:A:1608:ARG:O	1:A:1608:ARG:NE	2.52	0.42
1:A:1655:ILE:HD13	1:A:1681:ASP:CB	2.45	0.42
1:A:1889:VAL:HG22	1:A:1900:PHE:CG	2.54	0.42
1:A:2066:PHE:CD1	1:A:2128:PHE:HE1	2.38	0.42
1:A:2210:VAL:HG13	1:A:2211:LEU:HG	2.01	0.42
1:A:2300:PHE:CE2	1:A:2341:LEU:HB2	2.54	0.42
1:A:2943:PHE:CE1	1:A:2984:GLY:HA2	2.55	0.42
1:A:3128:LYS:C	1:A:3130:GLN:N	2.77	0.42
1:A:3690:PHE:HD1	1:A:3692:VAL:HG23	1.84	0.42
1:A:3872:ARG:HD2	1:A:3965:ARG:NH1	2.35	0.42
1:A:3982:SER:HB3	1:A:3986:HIS:HE1	1.83	0.42
1:B:107:ILE:O	1:B:110:THR:HB	2.20	0.42
1:B:617:PRO:HB3	1:B:659:ARG:CD	2.50	0.42
1:B:792:ILE:O	1:B:796:LEU:HG	2.19	0.42
1:B:886:TRP:CH2	1:B:958:MSE:HB2	2.54	0.42
1:B:980:THR:HG22	1:B:984:TYR:CE2	2.52	0.42
1:B:1551:ILE:HA	1:B:1554:SER:HB3	2.02	0.42
1:B:1686:LEU:CD2	1:B:1727:ARG:NH1	2.83	0.42
1:B:1861:SER:O	1:B:1864:ASP:HB3	2.20	0.42
1:B:2135:ASN:N	1:B:2136:PRO:HD3	2.35	0.42
1:B:2166:SER:O	1:B:2170:GLN:CB	2.50	0.42
1:B:2171:LEU:CG	1:B:2177:ASN:HD21	2.29	0.42
1:B:2326:ILE:HD13	1:B:2326:ILE:HA	1.89	0.42
1:B:2443:MSE:N	1:B:2444:PRO:HD2	2.35	0.42
1:B:2531:LEU:HD12	1:B:2531:LEU:HA	1.89	0.42
1:B:2541:ALA:O	1:B:2545:LEU:HG	2.20	0.42
1:B:2875:ALA:HB2	1:B:2921:LEU:HD23	2.01	0.42
1:B:2905:LEU:HB2	1:B:2906:PRO:CD	2.50	0.42
1:B:3283:LEU:HD13	1:B:3287:ARG:CZ	2.50	0.42
1:B:3283:LEU:HD13	1:B:3287:ARG:NE	2.34	0.42
1:B:3529:ILE:O	1:B:3529:ILE:HG22	2.19	0.42
1:B:3577:GLN:HG3	1:B:3800:LEU:CD2	2.50	0.42
1:B:3694:PHE:CD2	1:B:3697:ASN:HA	2.54	0.42
1:B:3885:ARG:O	1:B:3888:VAL:HG12	2.20	0.42
1:A:575:ILE:HD13	1:A:603:ILE:HB	2.01	0.42
1:A:758:LEU:HD12	1:A:758:LEU:HA	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:971:ARG:HD2	1:A:1024:THR:CB	2.50	0.42
1:A:1127:CYS:O	1:A:1131:ILE:HG23	2.20	0.42
1:A:1279:LEU:HG	1:A:1292:LYS:NZ	2.33	0.42
1:A:1651:LYS:HB2	1:A:1684:LEU:CD1	2.50	0.42
1:A:1686:LEU:HD23	1:A:1727:ARG:CZ	2.50	0.42
1:A:1939:LEU:O	1:A:1942:CYS:N	2.53	0.42
1:A:1981:LEU:O	1:A:1984:LEU:HG	2.19	0.42
1:A:2154:GLU:N	1:A:2199:LEU:HD22	2.34	0.42
1:A:2166:SER:N	1:A:2167:PRO:CD	2.82	0.42
1:A:2307:MSE:O	1:A:2308:SER:C	2.63	0.42
1:A:2913:LYS:HG3	1:A:2914:ALA:H	1.82	0.42
1:A:3454:LEU:HD21	1:A:3461:ALA:HB2	2.01	0.42
1:A:3789:ARG:HH22	1:A:3806:LEU:CD2	2.23	0.42
1:B:62:ASP:O	1:B:66:LEU:HD23	2.20	0.42
1:B:642:PHE:HE2	1:B:710:PHE:HE2	1.66	0.42
1:B:733:LEU:C	1:B:737:PRO:HD3	2.45	0.42
1:B:992:ILE:HA	1:B:995:PHE:CE2	2.54	0.42
1:B:1007:VAL:HA	1:B:1010:LEU:HD11	2.02	0.42
1:B:1017:ILE:HB	1:B:1025:LEU:CB	2.47	0.42
1:B:1349:LEU:CD2	1:B:1353:PRO:HG2	2.49	0.42
1:B:1467:ILE:HG13	1:B:1468:LEU:HG	2.01	0.42
1:B:2327:LEU:HA	1:B:2330:VAL:HG12	2.01	0.42
1:B:2877:SER:O	1:B:2880:CYS:N	2.36	0.42
1:B:2883:SER:O	1:B:2884:LEU:C	2.63	0.42
1:B:3053:LEU:HA	1:B:3053:LEU:HD23	1.55	0.42
1:B:3293:CYS:HA	1:B:3297:VAL:CG2	2.50	0.42
1:A:147:PHE:CD2	1:A:148:LYS:HG3	2.55	0.42
1:A:281:GLN:HA	1:A:326:MSE:SE	2.70	0.42
1:A:393:LYS:HA	1:A:396:PHE:CE1	2.54	0.42
1:A:429:GLU:OE1	1:A:429:GLU:N	2.53	0.42
1:A:436:GLU:OE2	1:A:475:LEU:HD11	2.19	0.42
1:A:654:ILE:HG23	1:A:722:LYS:NZ	2.35	0.42
1:A:846:ILE:HG23	1:A:854:ARG:NH1	2.35	0.42
1:A:1015:ASP:HA	1:A:1018:VAL:HG22	2.01	0.42
1:A:1083:ASN:HD21	1:A:1104:LEU:CD2	2.32	0.42
1:A:1303:MSE:HB2	1:A:1371:VAL:HG23	2.01	0.42
1:A:1715:GLU:O	1:A:1719:VAL:HG23	2.19	0.42
1:A:2035:THR:HG22	1:A:2076:VAL:HG13	2.02	0.42
1:A:2276:LEU:O	1:A:2279:ILE:HB	2.19	0.42
1:A:2387:PRO:O	1:A:2390:HIS:HB3	2.20	0.42
1:A:2472:GLN:O	1:A:2476:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2520:ILE:HD12	1:A:2607:UNK:CB	2.50	0.42
1:A:2538:ARG:NH1	1:A:2565:MSE:HG3	2.35	0.42
1:A:2843:PHE:HE2	1:A:2853:PRO:HG3	1.85	0.42
1:A:3122:HIS:O	1:A:3123:GLN:C	2.63	0.42
1:A:3280:TYR:CG	1:A:3328:ILE:HD11	2.55	0.42
1:B:149:ILE:O	1:B:152:LEU:HG	2.20	0.42
1:B:446:PHE:HD2	1:B:533:HIS:CG	2.37	0.42
1:B:544:ILE:C	1:B:546:ALA:H	2.28	0.42
1:B:617:PRO:HB3	1:B:659:ARG:HD2	2.02	0.42
1:B:884:VAL:C	1:B:907:LEU:HD11	2.45	0.42
1:B:913:ARG:O	1:B:917:LEU:HG	2.20	0.42
1:B:977:ASP:HB3	1:B:980:THR:HG22	2.02	0.42
1:B:1335:CYS:HA	1:B:1338:VAL:HG12	2.01	0.42
1:B:1681:ASP:HB2	1:B:1717:LEU:CD2	2.50	0.42
1:B:1809:ASP:N	1:B:1810:PRO:HD3	2.35	0.42
1:B:2216:LEU:O	1:B:2217:ASN:C	2.62	0.42
1:B:2385:LEU:HG	1:B:2389:PHE:CZ	2.55	0.42
1:B:2398:LEU:O	1:B:2402:LEU:HD23	2.20	0.42
1:B:3148:GLN:HE22	1:B:3160:LEU:HD22	1.85	0.42
1:B:3283:LEU:HG	1:B:3300:VAL:CG2	2.49	0.42
1:B:3487:ILE:HB	1:B:3520:GLU:CD	2.45	0.42
1:B:3978:GLY:O	1:B:3979:LEU:HD23	2.19	0.42
1:A:82:ARG:NH1	1:A:114:VAL:HG13	2.35	0.41
1:A:259:GLN:C	1:A:261:ASP:H	2.28	0.41
1:A:279:ALA:HA	1:A:282:PHE:CD2	2.55	0.41
1:A:345:PHE:O	1:A:348:ILE:N	2.53	0.41
1:A:381:VAL:HB	1:A:384:MSE:SE	2.70	0.41
1:A:398:THR:HA	1:A:400:THR:HG22	2.02	0.41
1:A:417:VAL:O	1:A:420:VAL:HG12	2.20	0.41
1:A:489:ARG:HA	1:A:612:LEU:HB2	2.02	0.41
1:A:513:GLU:OE1	1:A:653:LEU:HD11	2.19	0.41
1:A:557:SER:O	1:A:558:GLU:C	2.62	0.41
1:A:1060:PHE:CD2	1:A:1099:PHE:HZ	2.38	0.41
1:A:1080:LEU:HD23	1:A:1128:CYS:SG	2.61	0.41
1:A:1763:THR:N	1:A:1864:ASP:OD2	2.43	0.41
1:A:2082:GLU:HB2	1:A:2086:ASP:CB	2.50	0.41
1:A:2534:ASN:HB3	1:A:2537:ASP:HB2	2.01	0.41
1:A:2943:PHE:CD1	1:A:2944:THR:N	2.79	0.41
1:A:2949:THR:C	1:A:2951:GLN:N	2.78	0.41
1:A:3386:SER:O	1:A:3390:GLN:HB2	2.19	0.41
1:B:368:LEU:HD13	1:B:388:LEU:HD23	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:454:GLN:CG	1:B:533:HIS:HE1	2.29	0.41
1:B:2047:THR:O	1:B:2050:GLN:HB2	2.20	0.41
1:B:2190:VAL:HG21	1:B:2241:LEU:CD1	2.47	0.41
1:B:2843:PHE:HE2	1:B:2853:PRO:HG3	1.84	0.41
1:B:3577:GLN:HA	1:B:3800:LEU:HD22	2.02	0.41
1:B:3585:PHE:O	1:B:3589:SER:OG	2.30	0.41
1:A:100:ILE:O	1:A:100:ILE:HG22	2.20	0.41
1:A:239:GLU:C	1:A:242:PRO:HD2	2.45	0.41
1:A:560:LEU:HA	1:A:563:LEU:CG	2.50	0.41
1:A:905:ILE:O	1:A:906:PHE:HB2	2.18	0.41
1:A:997:ASN:HA	1:A:1042:LYS:HD3	2.03	0.41
1:A:1305:ASP:CG	1:A:1334:LYS:NZ	2.79	0.41
1:A:1503:LEU:HD23	1:A:1503:LEU:HA	1.88	0.41
1:A:1569:THR:O	1:A:1573:LYS:CB	2.67	0.41
1:A:1711:ARG:HG3	1:A:1712:ARG:N	2.35	0.41
1:A:1722:PHE:O	1:A:1725:GLN:HB3	2.20	0.41
1:A:2157:PHE:C	1:A:2157:PHE:CD1	2.98	0.41
1:A:2263:LYS:HB3	1:A:2264:ASP:H	1.61	0.41
1:A:2458:VAL:HG12	1:A:2473:MSE:HG3	2.01	0.41
1:A:2482:ASP:HB2	1:A:2485:ARG:NH2	2.35	0.41
1:A:2502:ALA:O	1:A:2506:LEU:HG	2.19	0.41
1:A:3351:ILE:HG23	1:A:3355:LYS:CE	2.49	0.41
1:A:3454:LEU:HD21	1:A:3461:ALA:CB	2.50	0.41
1:A:3505:LEU:HD12	1:A:3509:ASP:CB	2.45	0.41
1:B:43:VAL:O	1:B:45:SER:N	2.52	0.41
1:B:271:GLY:HA2	1:B:274:LEU:HD11	2.02	0.41
1:B:389:ILE:HG23	1:B:434:VAL:HG21	2.00	0.41
1:B:555:SER:O	1:B:556:SER:C	2.63	0.41
1:B:666:PHE:O	1:B:667:TYR:C	2.63	0.41
1:B:2166:SER:N	1:B:2167:PRO:HD2	2.35	0.41
1:B:2193:ILE:HD12	1:B:2245:TRP:CZ2	2.54	0.41
1:B:2277:LEU:O	1:B:2280:VAL:HB	2.20	0.41
1:B:2337:LEU:HD12	1:B:2337:LEU:HA	1.86	0.41
1:B:2359:LYS:O	1:B:2362:VAL:HG22	2.20	0.41
1:B:2365:ASN:HA	1:B:2368:THR:HB	2.00	0.41
1:B:2473:MSE:HE2	1:B:2473:MSE:HB3	1.82	0.41
1:B:2837:LEU:HD13	1:B:2868:LEU:N	2.35	0.41
1:B:2886:GLN:HG3	1:B:2886:GLN:H	1.48	0.41
1:B:3241:LYS:O	1:B:3243:ILE:N	2.41	0.41
1:B:3929:MSE:HB3	1:B:3938:ILE:HD12	2.02	0.41
1:B:3977:THR:C	1:B:3979:LEU:H	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:349:ILE:HG12	1:A:364:ARG:HB2	2.01	0.41
1:A:513:GLU:OE2	1:A:655:LEU:HD23	2.21	0.41
1:A:592:GLU:HB3	1:A:601:TRP:HZ2	1.84	0.41
1:A:955:ALA:O	1:A:959:TYR:HB3	2.19	0.41
1:A:999:LYS:HD2	1:A:1001:PHE:CE2	2.55	0.41
1:A:1163:LEU:HD23	1:A:1260:LEU:HD11	2.03	0.41
1:A:1251:GLN:O	1:A:1255:CYS:HB2	2.20	0.41
1:A:1684:LEU:HA	1:A:1684:LEU:HD23	1.82	0.41
1:A:1695:LEU:O	1:A:1700:THR:HB	2.20	0.41
1:A:2103:HIS:HA	1:A:2106:ARG:HB2	2.02	0.41
1:A:2164:TRP:C	1:A:2167:PRO:HD2	2.45	0.41
1:A:2168:LEU:HD13	1:A:2214:ARG:NH2	2.35	0.41
1:A:2443:MSE:CE	1:A:2476:ILE:HB	2.34	0.41
1:A:2462:VAL:C	1:A:2465:PRO:HD3	2.45	0.41
1:A:2462:VAL:HA	1:A:2465:PRO:HD3	2.02	0.41
1:A:2841:ASN:HD22	1:A:2871:LEU:HG	1.86	0.41
1:A:3011:LEU:O	1:A:3011:LEU:HD13	2.19	0.41
1:A:3056:GLU:HA	1:A:3092:LEU:HD11	2.02	0.41
1:A:3502:MSE:O	1:A:3503:VAL:C	2.63	0.41
1:A:3621:LYS:HB3	1:A:3638:LYS:HE2	2.02	0.41
1:A:3810:VAL:C	1:A:3929:MSE:HG3	2.45	0.41
1:B:19:LEU:HB2	1:B:34:LEU:HD13	2.02	0.41
1:B:61:ARG:O	1:B:65:LEU:CB	2.54	0.41
1:B:113:SER:O	1:B:116:THR:HB	2.20	0.41
1:B:162:LEU:HD21	1:B:196:LEU:HD13	2.01	0.41
1:B:646:VAL:HG11	1:B:710:PHE:CZ	2.54	0.41
1:B:1025:LEU:HD12	1:B:1028:PHE:HD2	1.84	0.41
1:B:1164:CYS:O	1:B:1164:CYS:SG	2.77	0.41
1:B:1648:LEU:O	1:B:1652:ILE:HD12	2.20	0.41
1:B:1876:ILE:C	1:B:1877:LEU:HG	2.45	0.41
1:B:2160:TYR:HA	1:B:2163:HIS:CD2	2.55	0.41
1:B:2213:ASN:CB	1:B:2250:SER:HB2	2.50	0.41
1:B:2367:VAL:HG22	1:B:2371:PHE:CE1	2.55	0.41
1:B:2396:LEU:H	1:B:2396:LEU:HD12	1.85	0.41
1:B:2647:UNK:HA	1:B:2775:TYR:HD1	1.85	0.41
1:B:2806:LYS:HD3	1:B:2855:VAL:CG1	2.43	0.41
1:B:3178:ILE:C	1:B:3180:ASP:N	2.77	0.41
1:A:51:LEU:H	1:A:51:LEU:HG	1.62	0.41
1:A:166:ILE:HG22	1:A:167:PRO:HD2	2.02	0.41
1:A:405:ASP:O	1:A:406:ARG:C	2.63	0.41
1:A:449:TYR:CD2	1:A:454:GLN:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:488:ILE:HD12	1:A:616:LYS:HD3	2.02	0.41
1:A:808:GLU:CD	1:A:3114:TYR:HB3	2.45	0.41
1:A:851:ILE:O	1:A:855:VAL:HG23	2.19	0.41
1:A:889:GLU:CD	1:A:950:GLU:HG2	2.46	0.41
1:A:1060:PHE:HB3	1:A:1064:TYR:CE2	2.56	0.41
1:A:1640:GLU:HG2	1:A:1691:GLN:HG2	2.01	0.41
1:A:1997:PRO:HA	1:A:2000:ARG:N	2.36	0.41
1:A:2813:PHE:O	1:A:2816:ILE:HG22	2.20	0.41
1:A:3151:LEU:HA	1:A:3152:SER:HA	1.85	0.41
1:B:1006:THR:O	1:B:1010:LEU:HG	2.21	0.41
1:B:1092:GLU:O	1:B:1093:GLU:HB2	2.20	0.41
1:B:1270:PHE:CZ	1:B:1347:THR:C	2.99	0.41
1:B:1289:SER:O	1:B:1289:SER:OG	2.39	0.41
1:B:1735:ARG:O	1:B:1736:PHE:HB2	2.20	0.41
1:B:1761:LEU:HD23	1:B:1762:MSE:N	2.36	0.41
1:B:1931:ASN:OD1	1:B:1932:GLN:N	2.53	0.41
1:B:1945:TYR:HD1	1:B:1948:ALA:HB3	1.86	0.41
1:B:1987:ARG:O	1:B:1988:TYR:C	2.63	0.41
1:B:2003:LYS:HA	1:B:2006:GLU:HB2	2.03	0.41
1:B:2066:PHE:HB3	1:B:2067:ARG:HA	2.02	0.41
1:B:2386:LEU:HA	1:B:2386:LEU:HD23	1.80	0.41
1:B:2995:GLU:O	1:B:2998:SER:HB3	2.20	0.41
1:B:3242:MSE:C	1:B:3243:ILE:HG13	2.46	0.41
1:B:3778:ASP:OD1	1:B:3780:ALA:N	2.53	0.41
1:B:3944:HIS:CG	1:B:3949:ALA:HA	2.55	0.41
1:B:3953:LEU:HD13	1:B:4069:GLU:HB3	2.01	0.41
1:B:4028:ILE:HA	1:B:4031:ILE:HD12	2.02	0.41
1:A:249:PHE:HZ	1:A:272:LEU:HD12	1.86	0.41
1:A:295:GLU:CD	1:A:341:PHE:CE1	2.97	0.41
1:A:703:CYS:O	1:A:707:PHE:CD1	2.73	0.41
1:A:849:GLU:CD	1:A:849:GLU:N	2.77	0.41
1:A:1025:LEU:HA	1:A:1025:LEU:HD12	1.78	0.41
1:A:2083:LEU:HD23	1:A:2083:LEU:HA	1.81	0.41
1:A:2163:HIS:O	1:A:2167:PRO:HD3	2.21	0.41
1:A:2239:LYS:HE2	1:A:2240:THR:CG2	2.45	0.41
1:A:2411:LEU:HG	1:A:2412:TYR:N	2.34	0.41
1:A:2512:ASP:HB2	1:A:2515:PRO:HD2	2.02	0.41
1:A:3002:TYR:CE1	1:A:3003:ASN:HB3	2.55	0.41
1:A:3048:LYS:HZ3	1:A:3089:LEU:HB3	1.85	0.41
1:A:3135:LEU:O	1:A:3138:ILE:HB	2.20	0.41
1:A:3640:PHE:HB3	1:A:3644:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3710:LYS:HA	1:A:3710:LYS:HD3	1.95	0.41
1:A:4121:TRP:CG	1:A:4122:GLU:H	2.39	0.41
1:B:31:GLY:O	1:B:34:LEU:HB3	2.20	0.41
1:B:356:ASN:ND2	1:B:1856:THR:C	2.79	0.41
1:B:394:GLN:O	1:B:398:THR:HG23	2.20	0.41
1:B:476:ARG:HA	1:B:479:ILE:CG1	2.50	0.41
1:B:567:GLU:OE2	1:B:1798:LEU:HD22	2.21	0.41
1:B:630:CYS:C	1:B:632:GLU:H	2.27	0.41
1:B:633:ILE:HG23	1:B:637:LYS:CE	2.51	0.41
1:B:766:ALA:C	1:B:768:VAL:N	2.78	0.41
1:B:906:PHE:O	1:B:909:VAL:HB	2.21	0.41
1:B:986:PRO:O	1:B:987:LEU:C	2.63	0.41
1:B:1076:LEU:HD23	1:B:1076:LEU:HA	1.75	0.41
1:B:1255:CYS:SG	1:B:1333:SER:HB3	2.60	0.41
1:B:1366:THR:O	1:B:1369:MSE:HB2	2.20	0.41
1:B:1608:ARG:HD3	1:B:1631:SER:H	1.86	0.41
1:B:2129:LEU:HD13	1:B:2156:VAL:CG1	2.51	0.41
1:B:2427:ARG:HB3	1:B:2433:LYS:HB2	2.02	0.41
1:B:2634:UNK:O	1:B:2637:UNK:N	2.53	0.41
1:B:2789:SER:O	1:B:2793:PRO:HD3	2.21	0.41
1:B:2970:LYS:HE3	1:B:2974:GLU:OE2	2.21	0.41
1:B:3006:ALA:HB2	1:B:3254:LEU:HD11	2.03	0.41
1:B:3026:ASP:O	1:B:3030:ILE:HG13	2.20	0.41
1:B:3072:GLU:HA	1:B:3076:ALA:HA	2.03	0.41
1:B:3469:LEU:C	1:B:3474:ARG:HG2	2.46	0.41
1:B:3974:MSE:CB	1:B:3976:GLU:HB3	2.49	0.41
1:A:75:SER:HA	1:A:79:ARG:HG3	2.01	0.41
1:A:197:PHE:CE2	1:A:230:LEU:HD22	2.56	0.41
1:A:246:ARG:CA	1:A:249:PHE:HD2	2.32	0.41
1:A:504:GLU:O	1:A:508:HIS:CG	2.74	0.41
1:A:752:LEU:O	1:A:756:PHE:HD1	2.02	0.41
1:A:806:SER:C	1:A:808:GLU:N	2.78	0.41
1:A:923:ASP:O	1:A:927:LYS:HE3	2.20	0.41
1:A:1014:LEU:O	1:A:1078:ALA:HB2	2.19	0.41
1:A:1116:ALA:HB2	1:A:1164:CYS:HB3	2.03	0.41
1:A:1220:LEU:HD13	1:A:1274:ARG:CG	2.49	0.41
1:A:1332:TYR:O	1:A:1336:THR:OG1	2.31	0.41
1:A:1359:LEU:HD11	1:A:1365:ASN:OD1	2.20	0.41
1:A:1462:GLY:C	1:A:1464:LEU:N	2.75	0.41
1:A:1651:LYS:C	1:A:1655:ILE:HD12	2.45	0.41
1:A:1865:THR:HA	1:A:1868:THR:HG1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1876:ILE:C	1:A:1877:LEU:HG	2.45	0.41
1:A:2412:TYR:HD2	1:A:2416:LYS:NZ	2.17	0.41
1:A:2520:ILE:HG23	1:A:2521:ILE:N	2.36	0.41
1:A:2858:ILE:CD1	1:A:2888:VAL:HB	2.51	0.41
1:A:2887:PRO:HG3	1:A:2921:LEU:HD13	2.03	0.41
1:A:2936:TYR:HD2	1:A:3979:LEU:HD21	1.83	0.41
1:A:2962:ARG:HH22	1:A:3006:ALA:HB1	1.85	0.41
1:A:3614:TYR:CD1	1:A:3618:GLY:HA3	2.56	0.41
1:A:3622:ALA:HB1	1:A:3623:PRO:HD2	2.02	0.41
1:A:3723:ASP:HB2	1:A:3741:ARG:NE	2.33	0.41
1:A:3745:GLU:C	1:A:3746:ARG:HG3	2.45	0.41
1:A:3766:GLN:O	1:A:3769:GLN:HG2	2.21	0.41
1:A:3920:ILE:HG13	1:A:3923:ARG:HD3	2.02	0.41
1:B:168:ASP:O	1:B:170:VAL:N	2.47	0.41
1:B:204:LEU:HD22	1:B:219:VAL:CG1	2.46	0.41
1:B:204:LEU:HG	1:B:204:LEU:H	1.53	0.41
1:B:431:TYR:CA	1:B:434:VAL:HG12	2.44	0.41
1:B:527:TYR:CD1	1:B:531:PHE:HZ	2.38	0.41
1:B:717:LYS:HZ3	1:B:1121:LEU:HD11	1.83	0.41
1:B:989:MSE:SE	1:B:1030:GLY:O	2.89	0.41
1:B:1880:MSE:O	1:B:1883:ARG:N	2.51	0.41
1:B:2066:PHE:CD1	1:B:2128:PHE:HE1	2.39	0.41
1:B:2164:TRP:CZ3	1:B:2186:VAL:HG23	2.55	0.41
1:B:2542:LEU:HD13	1:B:2546:TYR:CE2	2.56	0.41
1:B:3329:LEU:O	1:B:3332:THR:OG1	2.32	0.41
1:B:3494:GLN:O	1:B:3498:TRP:CZ3	2.73	0.41
1:B:3736:LYS:HB3	1:B:3752:VAL:HB	2.02	0.41
1:B:3772:ASN:HA	1:B:3775:LEU:HG	2.02	0.41
1:A:160:LEU:O	1:A:164:LYS:HG2	2.20	0.41
1:A:217:LEU:N	1:A:218:PRO:HD2	2.36	0.41
1:A:396:PHE:CE1	1:A:437:HIS:CD2	3.08	0.41
1:A:474:VAL:HG11	1:A:1564:SER:CB	2.50	0.41
1:A:481:THR:HG22	1:A:482:VAL:N	2.35	0.41
1:A:508:HIS:CD2	1:A:725:LEU:HD13	2.55	0.41
1:A:560:LEU:O	1:A:563:LEU:N	2.54	0.41
1:A:704:PHE:HA	1:A:707:PHE:CG	2.56	0.41
1:A:959:TYR:O	1:A:963:LYS:CB	2.62	0.41
1:A:980:THR:CG2	1:A:984:TYR:CE1	3.01	0.41
1:A:1168:LEU:O	1:A:1171:TRP:HB3	2.21	0.41
1:A:1407:LYS:C	1:A:1409:SER:N	2.78	0.41
1:A:1500:LEU:HB3	1:A:1501:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1816:ARG:HD3	1:A:1819:PHE:HE1	1.86	0.41
1:A:1949:ILE:HD12	1:A:1949:ILE:HA	1.88	0.41
1:A:1992:VAL:HG23	1:A:1993:GLU:N	2.35	0.41
1:A:2040:MSE:HA	1:A:2043:PHE:CD1	2.55	0.41
1:A:2070:GLU:HB2	1:A:2072:ARG:N	2.36	0.41
1:A:2219:LEU:HB3	1:A:2238:ILE:HG21	2.02	0.41
1:A:2238:ILE:O	1:A:2242:VAL:HG23	2.21	0.41
1:A:2344:LEU:O	1:A:2347:LYS:HB2	2.21	0.41
1:A:2541:ALA:O	1:A:2545:LEU:HG	2.20	0.41
1:A:2824:LYS:HB3	1:A:2825:THR:H	1.69	0.41
1:A:2863:CYS:O	1:A:2865:HIS:N	2.54	0.41
1:A:2920:VAL:O	1:A:2923:TRP:HB3	2.21	0.41
1:A:3356:ALA:HB1	1:A:3384:HIS:HB3	2.02	0.41
1:A:3502:MSE:CE	1:A:3517:SER:HB3	2.51	0.41
1:A:3529:ILE:O	1:A:3529:ILE:HG22	2.21	0.41
1:A:3676:PRO:CG	1:A:3677:PRO:HD3	2.50	0.41
1:A:3928:PHE:CD1	1:A:3928:PHE:O	2.74	0.41
1:B:752:LEU:HA	1:B:755:ALA:CB	2.50	0.41
1:B:989:MSE:CG	1:B:1031:ARG:NH1	2.83	0.41
1:B:1273:GLU:HG2	1:B:1276:VAL:HB	2.02	0.41
1:B:1513:GLY:O	1:B:1517:LEU:HG	2.19	0.41
1:B:1909:ASN:ND2	1:B:1909:ASN:N	2.69	0.41
1:B:1911:LEU:HD22	1:B:1916:ILE:HG21	2.03	0.41
1:B:1946:ASN:ND2	1:B:1993:GLU:OE2	2.40	0.41
1:B:1996:VAL:HG23	1:B:1997:PRO:CD	2.51	0.41
1:B:2062:ALA:O	1:B:2066:PHE:N	2.53	0.41
1:B:2412:TYR:O	1:B:2412:TYR:CG	2.73	0.41
1:B:2565:MSE:C	1:B:2565:MSE:SE	3.13	0.41
1:B:2565:MSE:SE	1:B:2565:MSE:O	2.88	0.41
1:B:2787:HIS:HB3	1:B:2790:LEU:HD12	2.02	0.41
1:B:2870:SER:HA	1:B:2897:LEU:CD2	2.51	0.41
1:B:2925:GLU:HB3	1:B:3121:LEU:HD21	2.02	0.41
1:B:3136:THR:O	1:B:3140:GLU:CB	2.68	0.41
1:B:3259:LEU:HD11	1:B:3275:SER:O	2.21	0.41
1:B:3291:GLN:O	1:B:3294:SER:OG	2.39	0.41
1:B:3492:CYS:HB2	1:B:3713:PRO:HG3	2.03	0.41
1:B:4002:MSE:O	1:B:4006:VAL:HG13	2.21	0.41
1:B:4082:ARG:HG3	1:B:4091:ALA:CB	2.37	0.41
1:A:156:PHE:HA	1:A:159:GLU:CD	2.46	0.41
1:A:933:LEU:HD21	1:A:2795:GLN:CD	2.46	0.41
1:A:1111:LEU:N	1:A:1111:LEU:HD12	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1565:GLU:C	1:A:1567:ILE:H	2.28	0.41
1:A:2138:VAL:HB	1:A:2139:PRO:HD3	2.03	0.41
1:A:2202:PRO:C	1:A:2206:PRO:HD2	2.46	0.41
1:A:2330:VAL:CG2	1:A:2338:GLU:HB3	2.35	0.41
1:A:2423:VAL:HG22	1:A:2424:MSE:N	2.36	0.41
1:A:2640:UNK:O	1:A:2641:UNK:C	2.68	0.41
1:A:2999:LEU:HD12	1:A:3002:TYR:HE2	1.86	0.41
1:A:3048:LYS:HB3	1:A:3048:LYS:HE2	1.68	0.41
1:A:3190:LEU:O	1:A:3194:GLU:HB2	2.21	0.41
1:A:4070:LYS:HB3	1:A:4073:ALA:HB3	2.02	0.41
1:B:29:LEU:C	1:B:31:GLY:H	2.29	0.41
1:B:46:SER:H	1:B:51:LEU:CD1	2.34	0.41
1:B:70:ARG:NH2	1:B:79:ARG:HG2	2.35	0.41
1:B:476:ARG:HA	1:B:479:ILE:HG13	2.03	0.41
1:B:634:LEU:CB	1:B:638:GLN:HE22	2.32	0.41
1:B:804:ALA:C	1:B:806:SER:H	2.29	0.41
1:B:911:LEU:O	1:B:915:THR:HG23	2.20	0.41
1:B:1462:GLY:C	1:B:1464:LEU:H	2.28	0.41
1:B:1463:LEU:HD23	1:B:1463:LEU:O	2.21	0.41
1:B:1548:GLY:O	1:B:1552:HIS:ND1	2.53	0.41
1:B:1606:ARG:NH1	1:B:1806:ARG:HB3	2.36	0.41
1:B:1739:TYR:O	1:B:1740:VAL:C	2.62	0.41
1:B:1874:TYR:HD2	1:B:1885:PRO:HG3	1.85	0.41
1:B:1880:MSE:CE	1:B:1884:LEU:HD11	2.51	0.41
1:B:2009:LYS:CG	1:B:2010:GLU:H	2.34	0.41
1:B:2083:LEU:HD23	1:B:2083:LEU:HA	1.82	0.41
1:B:2164:TRP:CE3	1:B:2215:LEU:HG	2.55	0.41
1:B:2307:MSE:O	1:B:2308:SER:C	2.63	0.41
1:B:2367:VAL:O	1:B:2371:PHE:HE1	2.04	0.41
1:B:2371:PHE:CG	1:B:2372:PRO:HD3	2.56	0.41
1:B:2440:TYR:CE2	1:B:2443:MSE:SE	3.24	0.41
1:B:3031:TRP:CD2	1:B:3034:PRO:HD3	2.56	0.41
1:B:3148:GLN:NE2	1:B:3197:LEU:HD12	2.36	0.41
1:B:3839:TYR:CE1	1:B:3867:THR:HB	2.29	0.41
1:A:15:LEU:HA	1:A:2359:LYS:NZ	2.36	0.41
1:A:178:LEU:HB3	1:A:197:PHE:CE1	2.56	0.41
1:A:295:GLU:HA	1:A:298:LEU:HB2	2.02	0.41
1:A:298:LEU:O	1:A:301:CYS:HB3	2.21	0.41
1:A:340:TYR:O	1:A:344:GLN:HG3	2.21	0.41
1:A:406:ARG:C	1:A:408:TYR:N	2.78	0.41
1:A:607:ASP:O	1:A:611:ASN:CG	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:741:ILE:O	1:A:742:GLU:C	2.64	0.41
1:A:1005:ASP:HB2	1:A:1006:THR:H	1.63	0.41
1:A:1013:ILE:HG21	1:A:1028:PHE:HB2	2.02	0.41
1:A:1069:HIS:N	1:A:1070:PRO:CD	2.84	0.41
1:A:1147:LYS:CD	1:A:1180:GLN:HG2	2.50	0.41
1:A:1369:MSE:CE	1:A:1418:HIS:HB2	2.51	0.41
1:A:1385:ASN:O	1:A:1388:ASP:N	2.46	0.41
1:A:1431:LEU:HD11	1:A:1479:VAL:HG22	2.01	0.41
1:A:1467:ILE:C	1:A:1468:LEU:HD23	2.46	0.41
1:A:1752:LEU:C	1:A:1754:GLN:H	2.27	0.41
1:A:1874:TYR:CD2	1:A:1885:PRO:HG3	2.56	0.41
1:A:1938:ARG:O	1:A:1941:HIS:HB3	2.21	0.41
1:A:2165:LEU:HD11	1:A:2211:LEU:HD22	2.03	0.41
1:A:2239:LYS:CD	1:A:2279:ILE:HD12	2.49	0.41
1:A:2439:ILE:HG12	1:A:2442:MSE:CE	2.51	0.41
1:A:2445:LYS:HA	1:A:2445:LYS:HD3	1.78	0.41
1:A:2514:ASN:H	1:A:2515:PRO:HD3	1.86	0.41
1:A:2646:UNK:CB	1:A:2779:ASP:HA	2.51	0.41
1:A:2797:VAL:HG23	1:A:2798:ALA:N	2.36	0.41
1:A:2876:VAL:HG13	1:A:3035:PHE:CE1	2.56	0.41
1:A:2884:LEU:HD12	1:A:2884:LEU:H	1.86	0.41
1:A:2943:PHE:HE1	1:A:2984:GLY:HA2	1.86	0.41
1:A:3027:LEU:HB3	1:A:3031:TRP:CZ2	2.56	0.41
1:A:3311:ASN:HB3	1:A:3312:VAL:H	1.62	0.41
1:A:3323:PHE:O	1:A:3324:ARG:C	2.63	0.41
1:A:3323:PHE:C	1:A:3326:GLN:HG3	2.46	0.41
1:A:3356:ALA:HB2	1:A:3384:HIS:HB3	2.03	0.41
1:A:3425:ARG:NH1	1:A:3999:THR:CG2	2.84	0.41
1:A:3510:GLN:C	1:A:3512:VAL:H	2.28	0.41
1:A:3567:VAL:HG22	1:A:3571:PHE:CZ	2.56	0.41
1:A:3736:LYS:HD2	1:A:3752:VAL:HG21	2.03	0.41
1:A:3741:ARG:HG2	1:A:3741:ARG:HH11	1.84	0.41
1:A:3779:SER:O	1:A:3782:SER:N	2.54	0.41
1:A:3850:HIS:CD2	1:A:3850:HIS:H	2.39	0.41
1:A:3887:PHE:O	1:A:3890:MSE:HG2	2.20	0.41
1:A:3928:PHE:C	1:A:3928:PHE:HD1	2.29	0.41
1:A:3972:LEU:HD12	1:A:3974:MSE:CE	2.51	0.41
1:A:4091:ALA:C	1:A:4094:PRO:HG2	2.46	0.41
1:B:100:ILE:O	1:B:104:SER:HB3	2.20	0.41
1:B:153:PHE:CD1	1:B:154:SER:N	2.88	0.41
1:B:175:TYR:CD2	1:B:222:GLY:HA3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:185:HIS:N	1:B:186:PRO:HD2	2.27	0.41
1:B:214:GLU:HB3	1:B:215:PRO:HD2	2.02	0.41
1:B:553:VAL:O	1:B:556:SER:HB3	2.21	0.41
1:B:613:HIS:CG	1:B:614:PRO:HD3	2.56	0.41
1:B:804:ALA:O	1:B:806:SER:N	2.53	0.41
1:B:806:SER:O	1:B:808:GLU:N	2.54	0.41
1:B:978:GLN:N	1:B:981:ARG:HD3	2.34	0.41
1:B:1145:LEU:HD13	1:B:1149:LYS:HD3	2.02	0.41
1:B:1338:VAL:HA	1:B:1341:ILE:HD12	2.03	0.41
1:B:1359:LEU:O	1:B:1362:ASP:OD1	2.39	0.41
1:B:1374:GLN:HA	1:B:1374:GLN:OE1	2.21	0.41
1:B:1579:VAL:C	1:B:1581:GLU:H	2.28	0.41
1:B:1583:MSE:HE3	1:B:1643:MSE:SE	2.70	0.41
1:B:1927:MSE:C	1:B:1929:GLY:N	2.72	0.41
1:B:1949:ILE:O	1:B:1952:ILE:HG22	2.20	0.41
1:B:1981:LEU:HA	1:B:1984:LEU:HD23	2.01	0.41
1:B:2009:LYS:HE2	1:B:2012:ARG:HH11	1.86	0.41
1:B:2386:LEU:HD12	1:B:2404:ARG:HE	1.84	0.41
1:B:2849:SER:O	1:B:2850:PHE:CD1	2.74	0.41
1:B:3147:LYS:O	1:B:3151:LEU:HG	2.20	0.41
1:B:3151:LEU:HA	1:B:3152:SER:HA	1.73	0.41
1:B:3155:VAL:HG21	1:B:3159:ARG:HH21	1.83	0.41
1:B:3186:ARG:HH11	1:B:3186:ARG:HG3	1.85	0.41
1:B:3231:ILE:HG23	1:B:3235:LYS:HE3	2.02	0.41
1:B:3241:LYS:C	1:B:3243:ILE:N	2.79	0.41
1:B:3266:SER:HB2	1:B:3271:ASP:CG	2.46	0.41
1:B:3292:GLY:HA2	1:B:3296:GLN:HG2	2.03	0.41
1:B:3319:ASN:ND2	1:B:3400:SER:HA	2.35	0.41
1:B:3503:VAL:HG22	1:B:3539:SER:CB	2.51	0.41
1:B:3575:LEU:CD2	1:B:3687:MSE:SE	3.18	0.41
1:B:3632:PHE:HE2	1:B:3683:CYS:SG	2.43	0.41
1:B:3694:PHE:O	1:B:3697:ASN:N	2.54	0.41
1:B:3705:TYR:CD2	1:B:3792:SER:HB2	2.56	0.41
1:B:3759:ARG:C	1:B:3761:ASP:N	2.79	0.41
1:B:3950:THR:OG1	1:B:4065:LEU:HD22	2.20	0.41
1:B:3981:TYR:HE1	1:B:4104:VAL:C	2.28	0.41
1:B:4106:CYS:O	1:B:4108:MSE:N	2.54	0.41
1:A:34:LEU:HD11	1:A:38:LEU:HD11	2.03	0.41
1:A:591:GLN:HB3	1:A:1026:ARG:HD3	2.03	0.41
1:A:617:PRO:O	1:A:659:ARG:HD2	2.21	0.41
1:A:671:SER:O	1:A:675:ARG:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:776:TRP:CE2	1:A:780:ILE:HD12	2.55	0.41
1:A:846:ILE:HG23	1:A:854:ARG:HH12	1.86	0.41
1:A:850:GLU:CD	1:A:854:ARG:HH21	2.26	0.41
1:A:960:GLN:CG	1:A:1009:LEU:HD21	2.44	0.41
1:A:1342:MSE:HE3	1:A:1402:LEU:HD23	2.03	0.41
1:A:1678:LEU:O	1:A:1681:ASP:OD1	2.38	0.41
1:A:1692:ALA:HA	1:A:1695:LEU:HD12	2.02	0.41
1:A:1955:VAL:HA	1:A:2003:LYS:NZ	2.36	0.41
1:A:2256:ILE:CD1	1:A:2276:LEU:HD11	2.49	0.41
1:A:2358:ASP:C	1:A:2396:LEU:HD21	2.45	0.41
1:A:2442:MSE:O	1:A:2451:LEU:HD21	2.21	0.41
1:A:2536:LEU:HA	1:A:2536:LEU:HD23	1.81	0.41
1:A:2826:LEU:O	1:A:2830:ASN:HB2	2.21	0.41
1:A:3174:ASP:N	1:A:3175:PRO:CD	2.84	0.41
1:A:3301:LEU:HB2	1:A:3328:ILE:HG21	2.03	0.41
1:A:3629:ARG:O	1:A:3686:TRP:NE1	2.51	0.41
1:A:3630:ARG:HA	1:A:3686:TRP:NE1	2.36	0.41
1:A:3683:CYS:O	1:A:3687:MSE:HB2	2.21	0.41
1:B:115:TYR:O	1:B:118:ASP:HB3	2.21	0.41
1:B:155:LYS:O	1:B:159:GLU:HG3	2.21	0.41
1:B:892:LEU:CD2	1:B:907:LEU:HD13	2.50	0.41
1:B:1010:LEU:HD12	1:B:1011:GLU:H	1.85	0.41
1:B:1452:VAL:HG11	1:B:1502:SER:HB3	2.03	0.41
1:B:2044:ASP:O	1:B:2048:GLY:HA3	2.20	0.41
1:B:2795:GLN:O	1:B:2799:GLN:HG2	2.21	0.41
1:B:2915:ARG:O	1:B:2938:VAL:HG21	2.21	0.41
1:B:2991:LYS:O	1:B:2995:GLU:HG2	2.21	0.41
1:B:3318:LYS:O	1:B:3319:ASN:C	2.64	0.41
1:B:3593:ARG:HD3	1:B:3663:THR:HG21	2.03	0.41
1:B:3601:VAL:O	1:B:3605:ASN:HB2	2.21	0.41
1:B:3654:MSE:SE	1:B:3659:PHE:CB	3.17	0.41
1:B:3839:TYR:HB2	1:B:3871:PHE:CZ	2.56	0.41
1:B:3920:ILE:CG1	1:B:3923:ARG:HD2	2.35	0.41
1:A:127:ALA:O	1:A:131:LEU:CB	2.69	0.40
1:A:197:PHE:O	1:A:201:LEU:HG	2.21	0.40
1:A:225:LYS:O	1:A:228:SER:OG	2.31	0.40
1:A:797:ASP:OD1	1:A:800:LEU:HD12	2.21	0.40
1:A:1462:GLY:O	1:A:1464:LEU:N	2.54	0.40
1:A:1507:CYS:SG	1:A:1508:LYS:HG2	2.61	0.40
1:A:1710:LEU:HA	1:A:1710:LEU:HD23	1.68	0.40
1:A:1960:LYS:HG2	1:A:1963:GLN:OE1	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2120:ARG:NE	1:A:2120:ARG:HA	2.36	0.40
1:A:2576:MSE:HE3	1:A:2788:SER:HB2	2.02	0.40
1:A:2775:TYR:N	1:A:2775:TYR:CD1	2.89	0.40
1:A:3008:TRP:HB2	1:A:3257:LYS:NZ	2.36	0.40
1:A:3024:PRO:N	1:A:3025:PRO:CD	2.84	0.40
1:A:3065:ILE:HD13	1:A:3089:LEU:HD21	2.02	0.40
1:A:3076:ALA:O	1:A:3080:LEU:HG	2.21	0.40
1:A:3503:VAL:HG13	1:A:3504:ALA:H	1.87	0.40
1:A:3636:PHE:O	1:A:3640:PHE:HB2	2.21	0.40
1:A:3664:ASN:O	1:A:3668:LEU:HB2	2.21	0.40
1:A:4059:ILE:HG21	1:A:4059:ILE:HD13	1.82	0.40
1:A:4066:LEU:HG	1:A:4075:ARG:CA	2.44	0.40
1:B:281:GLN:HG3	1:B:326:MSE:HE1	2.02	0.40
1:B:792:ILE:C	1:B:794:PRO:HD2	2.46	0.40
1:B:805:LEU:H	1:B:805:LEU:HG	1.71	0.40
1:B:979:VAL:O	1:B:982:GLN:HB3	2.21	0.40
1:B:1032:CYS:O	1:B:1035:GLU:N	2.54	0.40
1:B:1291:LEU:HB3	1:B:1292:LYS:H	1.65	0.40
1:B:1426:GLN:O	1:B:1430:GLU:HG3	2.21	0.40
1:B:1651:LYS:HB3	1:B:1680:ALA:HB1	2.02	0.40
1:B:2042:GLN:HG3	1:B:2046:SER:HB3	2.03	0.40
1:B:2226:PRO:HA	1:B:2229:ALA:HB3	2.02	0.40
1:B:2298:GLU:HB3	1:B:2301:GLN:HB3	2.03	0.40
1:B:2368:THR:HA	1:B:2371:PHE:CE1	2.56	0.40
1:B:2374:LEU:HD12	1:B:2374:LEU:O	2.21	0.40
1:B:2374:LEU:H	1:B:2378:PHE:HE1	1.69	0.40
1:B:2481:HIS:CE1	1:B:2485:ARG:HD3	2.56	0.40
1:B:2852:PRO:O	1:B:2855:VAL:HB	2.22	0.40
1:B:4058:VAL:HG12	1:B:4061:CYS:HB3	2.03	0.40
1:A:385:TYR:CZ	1:A:424:LEU:HD21	2.56	0.40
1:A:463:LYS:O	1:A:466:LEU:N	2.54	0.40
1:A:513:GLU:HA	1:A:653:LEU:HD21	2.03	0.40
1:A:654:ILE:CG2	1:A:729:CYS:HB2	2.51	0.40
1:A:757:LYS:HA	1:A:760:LEU:HD11	2.01	0.40
1:A:766:ALA:O	1:A:768:VAL:HG23	2.22	0.40
1:A:766:ALA:C	1:A:768:VAL:N	2.79	0.40
1:A:971:ARG:CG	1:A:972:LEU:H	2.27	0.40
1:A:979:VAL:HG21	1:A:2656:UNK:HA	2.02	0.40
1:A:1350:ASN:OD1	1:A:1405:ALA:HA	2.20	0.40
1:A:1797:LEU:HA	1:A:1797:LEU:HD23	1.83	0.40
1:A:2260:PHE:CE2	1:A:2303:LEU:HA	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2296:SER:OG	1:A:2297:SER:N	2.52	0.40
1:A:2308:SER:HA	1:A:2352:HIS:NE2	2.36	0.40
1:A:2424:MSE:HA	1:A:2436:LEU:CD1	2.51	0.40
1:A:2882:ALA:HB1	1:A:2885:GLN:HB2	2.03	0.40
1:A:3052:LEU:HG	1:A:3092:LEU:CD2	2.50	0.40
1:A:3125:ARG:HA	1:A:3125:ARG:HD3	1.57	0.40
1:A:3811:THR:O	1:A:3814:ASP:N	2.54	0.40
1:A:3848:GLY:C	1:A:3849:LYS:HG3	2.46	0.40
1:A:3880:ALA:HB1	1:A:3884:LYS:NZ	2.36	0.40
1:B:82:ARG:HD2	1:B:114:VAL:HG13	2.03	0.40
1:B:86:LEU:HD13	1:B:134:LEU:CD2	2.52	0.40
1:B:104:SER:HA	1:B:107:ILE:HD12	2.02	0.40
1:B:487:LEU:O	1:B:490:ILE:HG22	2.20	0.40
1:B:491:CYS:HB2	1:B:527:TYR:CD1	2.56	0.40
1:B:560:LEU:HA	1:B:563:LEU:CG	2.52	0.40
1:B:560:LEU:O	1:B:563:LEU:N	2.54	0.40
1:B:593:ASN:ND2	1:B:1084:ASN:HB2	2.37	0.40
1:B:934:LEU:HD21	1:B:962:TYR:OH	2.22	0.40
1:B:1087:ARG:CD	1:B:1134:LEU:HB3	2.40	0.40
1:B:1229:CYS:SG	1:B:1282:LEU:HG	2.61	0.40
1:B:1419:LEU:HA	1:B:1419:LEU:HD23	1.81	0.40
1:B:1465:HIS:HA	1:B:1469:PRO:CD	2.51	0.40
1:B:2068:ARG:C	1:B:2070:GLU:N	2.80	0.40
1:B:2077:HIS:O	1:B:2081:LEU:HG	2.21	0.40
1:B:2200:ALA:O	1:B:2204:GLY:N	2.55	0.40
1:B:2349:LEU:HA	1:B:2364:LEU:HD13	2.02	0.40
1:B:2480:ILE:HA	1:B:2480:ILE:HD12	1.83	0.40
1:B:2939:LEU:HD11	1:B:2994:TRP:CZ3	2.56	0.40
1:B:2960:GLU:HG2	1:B:3289:ARG:HH22	1.86	0.40
1:B:3128:LYS:C	1:B:3130:GLN:N	2.76	0.40
1:B:3602:ASN:O	1:B:3606:ILE:HB	2.21	0.40
1:B:3824:GLU:HG2	1:B:3882:LEU:HD21	2.03	0.40
1:B:4063:GLU:O	1:B:4066:LEU:HB2	2.20	0.40
1:A:178:LEU:HD13	1:A:197:PHE:CE1	2.57	0.40
1:A:257:ARG:N	1:A:258:PRO:HD2	2.37	0.40
1:A:294:PHE:O	1:A:297:LEU:HG	2.21	0.40
1:A:1424:THR:HA	1:A:1427:SER:HB2	2.02	0.40
1:A:1597:LEU:HA	1:A:1600:MSE:HB2	2.03	0.40
1:A:1604:SER:OG	1:A:1605:PHE:N	2.54	0.40
1:A:2420:PHE:CZ	1:A:2424:MSE:HG3	2.57	0.40
1:A:2531:LEU:HD12	1:A:2531:LEU:HA	1.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2960:GLU:O	1:A:2965:TYR:CD1	2.74	0.40
1:A:2960:GLU:CG	1:A:3289:ARG:HH22	2.34	0.40
1:A:2989:ALA:O	1:A:2993:PHE:N	2.49	0.40
1:A:3173:MSE:HB3	1:A:3174:ASP:H	1.58	0.40
1:A:3495:PHE:CE1	1:A:3521:ILE:HA	2.56	0.40
1:A:3762:GLN:HE21	1:A:3763:ARG:HH11	1.67	0.40
1:A:3771:MSE:SE	1:A:3991:PHE:CE1	3.24	0.40
1:B:75:SER:HA	1:B:79:ARG:HG3	2.03	0.40
1:B:480:SER:O	1:B:484:HIS:HB2	2.21	0.40
1:B:542:ASP:HA	1:B:545:LEU:HD12	2.04	0.40
1:B:661:PRO:CG	1:B:733:LEU:HA	2.51	0.40
1:B:667:TYR:O	1:B:669:LEU:N	2.39	0.40
1:B:676:ASN:O	1:B:680:ILE:HG13	2.21	0.40
1:B:925:GLN:HB3	1:B:2801:ASP:CG	2.46	0.40
1:B:932:GLU:HB3	1:B:2794:LEU:CD1	2.45	0.40
1:B:1014:LEU:HD23	1:B:1028:PHE:HE2	1.86	0.40
1:B:1728:GLU:C	1:B:1731:PRO:HD2	2.46	0.40
1:B:1741:ASP:HB3	1:B:1745:LYS:HE3	2.03	0.40
1:B:2065:ARG:CZ	1:B:2097:LEU:HD21	2.52	0.40
1:B:2088:LEU:HG	1:B:2095:ALA:H	1.87	0.40
1:B:2957:LEU:HD22	1:B:3989:ARG:NH2	2.36	0.40
1:B:3356:ALA:CB	1:B:3384:HIS:HB3	2.51	0.40
1:B:3447:VAL:HG21	1:B:3475:TYR:CE2	2.56	0.40
1:B:3479:THR:HG23	1:B:3480:LEU:HD23	2.03	0.40
1:B:3606:ILE:HG22	1:B:3610:TYR:CE2	2.56	0.40
1:B:3896:ALA:HA	1:B:3899:ALA:HB3	2.04	0.40
1:B:3907:SER:HB2	1:B:3937:VAL:H	1.86	0.40
1:B:3964:THR:O	1:B:3967:PHE:HB3	2.21	0.40
1:B:3974:MSE:HA	1:B:3975:LYS:CB	2.47	0.40
1:B:4055:ASN:HA	1:B:4056:PRO:HD3	1.91	0.40
1:B:4124:TRP:O	1:B:4125:GLU:C	2.64	0.40
1:A:136:GLN:HG2	1:A:139:ARG:NH1	2.37	0.40
1:A:286:LEU:HD22	1:A:290:TYR:HD2	1.87	0.40
1:A:396:PHE:CE1	1:A:437:HIS:NE2	2.90	0.40
1:A:1056:THR:O	1:A:1059:LEU:HB2	2.22	0.40
1:A:1084:ASN:ND2	1:A:1131:ILE:HG22	2.33	0.40
1:A:1106:ILE:HA	1:A:1109:GLU:HB3	2.04	0.40
1:A:1492:ALA:HB1	1:A:1493:PRO:HD2	2.02	0.40
1:A:1524:LEU:HG	1:A:1559:PHE:CD1	2.56	0.40
1:A:1583:MSE:HB3	1:A:1584:GLN:H	1.70	0.40
1:A:2142:ILE:O	1:A:2145:PHE:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2640:UNK:O	1:A:2643:UNK:N	2.54	0.40
1:A:3247:ARG:HB2	1:A:3278:GLN:CD	2.46	0.40
1:A:3425:ARG:NH2	1:A:3467:ARG:HH12	2.18	0.40
1:A:3448:GLU:O	1:A:3451:LEU:HB2	2.21	0.40
1:A:3812:LEU:HD22	1:A:3928:PHE:CE1	2.57	0.40
1:A:3930:VAL:HA	1:A:3937:VAL:HA	2.02	0.40
1:B:262:LEU:HD22	1:B:306:VAL:CG1	2.51	0.40
1:B:410:MSE:HB3	1:B:410:MSE:HE3	1.84	0.40
1:B:435:LEU:HD12	1:B:436:GLU:N	2.36	0.40
1:B:484:HIS:O	1:B:488:ILE:HG23	2.22	0.40
1:B:506:GLU:O	1:B:509:ARG:HG2	2.20	0.40
1:B:544:ILE:O	1:B:546:ALA:N	2.55	0.40
1:B:611:ASN:O	1:B:614:PRO:HD2	2.20	0.40
1:B:742:GLU:HB3	1:B:783:HIS:CD2	2.56	0.40
1:B:763:THR:HB	1:B:770:LEU:HD23	2.02	0.40
1:B:1128:CYS:O	1:B:1131:ILE:HG23	2.21	0.40
1:B:1682:THR:CB	1:B:1724:MSE:SE	3.18	0.40
1:B:2007:ILE:HD13	1:B:2007:ILE:HG21	1.72	0.40
1:B:2065:ARG:HD3	1:B:2100:LEU:HD11	2.02	0.40
1:B:2485:ARG:HH11	1:B:2530:ARG:NH2	2.18	0.40
1:B:2813:PHE:CD1	1:B:2814:SER:N	2.90	0.40
1:B:3176:MSE:HG2	1:B:3249:GLN:HG2	2.03	0.40
1:B:3230:LEU:O	1:B:3234:CYS:HB2	2.22	0.40
1:B:3736:LYS:HB2	1:B:3736:LYS:HE3	1.87	0.40
1:B:3860:LYS:O	1:B:3864:ARG:HG3	2.22	0.40
1:B:3959:MSE:SE	1:B:4124:TRP:CZ3	3.25	0.40
1:B:3981:TYR:HE1	1:B:4105:LYS:N	2.19	0.40
1:A:294:PHE:CG	1:A:295:GLU:N	2.89	0.40
1:A:323:VAL:O	1:A:327:VAL:CB	2.66	0.40
1:A:442:GLN:OE1	1:A:457:CYS:HB3	2.22	0.40
1:A:653:LEU:HD13	1:A:653:LEU:C	2.47	0.40
1:A:882:SER:HB2	1:A:3892:THR:CB	2.52	0.40
1:A:1005:ASP:O	1:A:1006:THR:C	2.64	0.40
1:A:1602:ASP:HB2	1:A:1810:PRO:CB	2.52	0.40
1:A:1639:LEU:HD12	1:A:1640:GLU:N	2.37	0.40
1:A:1727:ARG:O	1:A:1730:PRO:HD2	2.21	0.40
1:A:1916:ILE:HG23	1:A:1920:TYR:HE1	1.85	0.40
1:A:2065:ARG:CZ	1:A:2097:LEU:HD21	2.50	0.40
1:A:2307:MSE:O	1:A:2310:VAL:O	2.40	0.40
1:A:2325:LEU:HD12	1:A:2325:LEU:HA	1.82	0.40
1:A:2929:LEU:HD21	1:A:3784:ARG:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2960:GLU:HG2	1:A:3252:PHE:CB	2.51	0.40
1:A:3042:PRO:HA	1:A:3045:ILE:CG1	2.49	0.40
1:A:3144:PHE:CZ	1:A:3193:ILE:HD11	2.57	0.40
1:A:3251:ASN:HD21	1:A:3254:LEU:HD22	1.87	0.40
1:B:376:ILE:HG13	1:B:381:VAL:HG21	2.03	0.40
1:B:509:ARG:HB3	1:B:729:CYS:SG	2.62	0.40
1:B:567:GLU:HB3	1:B:606:SER:HB2	2.04	0.40
1:B:869:ASN:O	1:B:873:VAL:HG23	2.21	0.40
1:B:971:ARG:CG	1:B:972:LEU:H	2.29	0.40
1:B:1017:ILE:HD12	1:B:1025:LEU:CD2	2.52	0.40
1:B:1353:PRO:HA	1:B:1358:LEU:HB3	2.03	0.40
1:B:1571:LEU:HD13	1:B:1599:GLY:O	2.21	0.40
1:B:1762:MSE:CB	1:B:1896:ILE:HG12	2.48	0.40
1:B:1916:ILE:HG23	1:B:1920:TYR:HE1	1.85	0.40
1:B:2068:ARG:O	1:B:2070:GLU:CD	2.64	0.40
1:B:2236:GLU:CD	2:S:111:UNK:O	2.65	0.40
1:B:2379:MSE:HE3	1:B:2383:PHE:HD1	1.87	0.40
1:B:2461:PHE:CE1	1:B:2462:VAL:HG23	2.57	0.40
1:B:2803:ILE:O	1:B:2804:ILE:C	2.65	0.40
1:B:2950:LYS:O	1:B:2954:GLN:HB2	2.22	0.40
1:B:3605:ASN:HB3	1:B:3609:MSE:CE	2.52	0.40
1:B:3775:LEU:HB3	1:B:3781:CYS:SG	2.61	0.40
1:B:3870:SER:OG	1:B:3871:PHE:N	2.54	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	3631/4128 (88%)	2664 (73%)	724 (20%)	243 (7%)	1	12
1	B	3631/4128 (88%)	2657 (73%)	723 (20%)	251 (7%)	1	11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	K	1/194 (0%)	1 (100%)	0	0	100	100
2	S	1/194 (0%)	1 (100%)	0	0	100	100
All	All	7264/8644 (84%)	5323 (73%)	1447 (20%)	494 (7%)	1	12

All (494) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	49	ALA
1	A	76	ILE
1	A	147	PHE
1	A	167	PRO
1	A	184	VAL
1	A	185	HIS
1	A	276	ALA
1	A	325	ASN
1	A	405	ASP
1	A	428	PRO
1	A	430	VAL
1	A	544	ILE
1	A	546	ALA
1	A	566	ASP
1	A	635	PRO
1	A	650	SER
1	A	742	GLU
1	A	755	ALA
1	A	767	GLU
1	A	885	ALA
1	A	897	PRO
1	A	903	PRO
1	A	905	ILE
1	A	958	MSE
1	A	1001	PHE
1	A	1005	ASP
1	A	1053	PRO
1	A	1094	SER
1	A	1110	SER
1	A	1141	LYS
1	A	1143	VAL
1	A	1271	ILE
1	A	1324	PRO
1	A	1425	ALA

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Mol	Chain	Res	Type
1	A	1583	MSE
1	A	1591	LYS
1	A	1593	VAL
1	A	1733	THR
1	A	1746	PHE
1	A	1762	MSE
1	A	1978	PHE
1	A	2003	LYS
1	A	2012	ARG
1	A	2029	SER
1	A	2030	TYR
1	A	2058	ASP
1	A	2068	ARG
1	A	2069	ARG
1	A	2074	PRO
1	A	2075	THR
1	A	2126	MSE
1	A	2155	GLU
1	A	2177	ASN
1	A	2248	CYS
1	A	2261	SER
1	A	2286	PRO
1	A	2287	PRO
1	A	2290	PRO
1	A	2357	GLU
1	A	2373	PRO
1	A	2424	MSE
1	A	2464	HIS
1	A	2785	ILE
1	A	2878	ALA
1	A	2926	LEU
1	A	2927	ALA
1	A	3173	MSE
1	A	3313	SER
1	A	3345	PRO
1	A	3576	ASP
1	A	3600	PRO
1	A	3603	LYS
1	A	3688	SER
1	A	3716	HIS
1	A	3835	PRO
1	A	3933	GLU

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Mol	Chain	Res	Type
1	B	76	ILE
1	B	167	PRO
1	B	184	VAL
1	B	185	HIS
1	B	238	MSE
1	B	260	ILE
1	B	276	ALA
1	B	395	MSE
1	B	405	ASP
1	B	430	VAL
1	B	540	MSE
1	B	546	ALA
1	B	566	ASP
1	B	635	PRO
1	B	670	LEU
1	B	742	GLU
1	B	746	ARG
1	B	767	GLU
1	B	784	VAL
1	B	871	LEU
1	B	885	ALA
1	B	897	PRO
1	B	903	PRO
1	B	923	ASP
1	B	1001	PHE
1	B	1005	ASP
1	B	1073	PHE
1	B	1093	GLU
1	B	1110	SER
1	B	1119	LYS
1	B	1122	GLY
1	B	1141	LYS
1	B	1143	VAL
1	B	1214	GLU
1	B	1271	ILE
1	B	1324	PRO
1	B	1408	MSE
1	B	1591	LYS
1	B	1762	MSE
1	B	1957	ASN
1	B	1974	ASN
1	B	1978	PHE

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Mol	Chain	Res	Type
1	B	2012	ARG
1	B	2029	SER
1	B	2058	ASP
1	B	2068	ARG
1	B	2069	ARG
1	B	2074	PRO
1	B	2075	THR
1	B	2155	GLU
1	B	2156	VAL
1	B	2177	ASN
1	B	2248	CYS
1	B	2261	SER
1	B	2263	LYS
1	B	2286	PRO
1	B	2287	PRO
1	B	2290	PRO
1	B	2373	PRO
1	B	2424	MSE
1	B	2785	ILE
1	B	2878	ALA
1	B	2884	LEU
1	B	3240	MSE
1	B	3241	LYS
1	B	3313	SER
1	B	3340	ALA
1	B	3600	PRO
1	B	3603	LYS
1	B	3688	SER
1	B	3711	PRO
1	B	3835	PRO
1	A	97	GLY
1	A	169	THR
1	A	170	VAL
1	A	186	PRO
1	A	187	SER
1	A	260	ILE
1	A	602	MSE
1	A	608	PRO
1	A	746	ARG
1	A	772	ALA
1	A	871	LEU
1	A	923	ASP

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Mol	Chain	Res	Type
1	A	957	PRO
1	A	1000	LYS
1	A	1075	ARG
1	A	1093	GLU
1	A	1112	ALA
1	A	1119	LYS
1	A	1122	GLY
1	A	1169	VAL
1	A	1214	GLU
1	A	1231	GLN
1	A	1237	ALA
1	A	1290	LEU
1	A	1590	THR
1	A	1700	THR
1	A	1724	MSE
1	A	1745	LYS
1	A	1934	LEU
1	A	1957	ASN
1	A	1963	GLN
1	A	2002	LYS
1	A	2011	ALA
1	A	2016	ASN
1	A	2072	ARG
1	A	2168	LEU
1	A	2282	ALA
1	A	2423	VAL
1	A	2514	ASN
1	A	2824	LYS
1	A	2884	LEU
1	A	3311	ASN
1	A	3312	VAL
1	A	3340	ALA
1	A	3456	LEU
1	A	3575	LEU
1	A	3678	GLY
1	A	3973	PRO
1	B	325	ASN
1	B	394	GLN
1	B	428	PRO
1	B	545	LEU
1	B	654	ILE
1	B	671	SER

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Mol	Chain	Res	Type
1	B	712	LYS
1	B	755	ALA
1	B	958	MSE
1	B	1053	PRO
1	B	1075	ARG
1	B	1094	SER
1	B	1290	LEU
1	B	1420	ARG
1	B	1425	ALA
1	B	1709	GLU
1	B	1733	THR
1	B	1811	ARG
1	B	2002	LYS
1	B	2030	TYR
1	B	2072	ARG
1	B	2168	LEU
1	B	2423	VAL
1	B	2570	PRO
1	B	2801	ASP
1	B	2824	LYS
1	B	2871	LEU
1	B	2926	LEU
1	B	2944	THR
1	B	3064	PHE
1	B	3242	MSE
1	B	3345	PRO
1	B	3403	CYS
1	B	3456	LEU
1	B	3499	ILE
1	B	3678	GLY
1	B	3826	ALA
1	B	3933	GLU
1	A	28	ALA
1	A	30	ALA
1	A	48	PRO
1	A	404	ASP
1	A	425	ASP
1	A	604	PRO
1	A	628	GLU
1	A	654	ILE
1	A	1045	THR
1	A	1077	GLY

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Mol	Chain	Res	Type
1	A	1238	GLN
1	A	1289	SER
1	A	1408	MSE
1	A	1420	ARG
1	A	1722	PHE
1	A	1811	ARG
1	A	1962	TYR
1	A	2034	SER
1	A	2096	PRO
1	A	2206	PRO
1	A	2263	LYS
1	A	2280	VAL
1	A	2371	PHE
1	A	2823	PHE
1	A	2914	ALA
1	A	3314	SER
1	A	3545	THR
1	A	3598	LYS
1	A	3796	MSE
1	A	3826	ALA
1	A	3857	LEU
1	A	3978	GLY
1	B	27	ALA
1	B	48	PRO
1	B	101	ALA
1	B	125	ILE
1	B	144	MSE
1	B	186	PRO
1	B	257	ARG
1	B	368	LEU
1	B	404	ASP
1	B	425	ASP
1	B	513	GLU
1	B	650	SER
1	B	957	PRO
1	B	1215	GLU
1	B	1231	GLN
1	B	1237	ALA
1	B	1238	GLN
1	B	1492	ALA
1	B	1565	GLU
1	B	1583	MSE

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Mol	Chain	Res	Type
1	B	1700	THR
1	B	1722	PHE
1	B	1917	LYS
1	B	2003	LYS
1	B	2011	ALA
1	B	2080	VAL
1	B	2096	PRO
1	B	2206	PRO
1	B	2357	GLU
1	B	2371	PHE
1	B	2465	PRO
1	B	2514	ASN
1	B	2575	PRO
1	B	2795	GLN
1	B	2823	PHE
1	B	2927	ALA
1	B	3174	ASP
1	B	3311	ASN
1	B	3601	VAL
1	B	3716	HIS
1	B	3796	MSE
1	B	4120	THR
1	A	27	ALA
1	A	125	ILE
1	A	257	ARG
1	A	277	LEU
1	A	515	ARG
1	A	543	SER
1	A	712	LYS
1	A	784	VAL
1	A	878	GLU
1	A	949	PRO
1	A	1073	PHE
1	A	1463	LEU
1	A	1492	ALA
1	A	1565	GLU
1	A	1647	ALA
1	A	1723	PRO
1	A	2010	GLU
1	A	2080	VAL
1	A	2176	ASN
1	A	2542	LEU

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Mol	Chain	Res	Type
1	A	2795	GLN
1	A	2871	LEU
1	A	2873	PRO
1	A	2879	GLY
1	A	3064	PHE
1	A	3240	MSE
1	A	3443	PRO
1	A	3472	ILE
1	A	3760	GLN
1	A	3860	LYS
1	B	49	ALA
1	B	69	VAL
1	B	169	THR
1	B	277	LEU
1	B	411	PRO
1	B	604	PRO
1	B	910	PHE
1	B	947	GLN
1	B	1000	LYS
1	B	1045	THR
1	B	1069	HIS
1	B	1077	GLY
1	B	1112	ALA
1	B	1348	LEU
1	B	1590	THR
1	B	1723	PRO
1	B	1757	MSE
1	B	1891	ALA
1	B	1895	LYS
1	B	1934	LEU
1	B	1962	TYR
1	B	1987	ARG
1	B	2098	THR
1	B	2464	HIS
1	B	3075	LYS
1	B	3486	GLU
1	B	3497	SER
1	B	3637	GLY
1	B	3654	MSE
1	B	3720	ALA
1	B	3760	GLN
1	B	3847	SER

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Mol	Chain	Res	Type
1	B	3860	LYS
1	B	3973	PRO
1	A	368	LEU
1	A	540	MSE
1	A	598	PRO
1	A	634	LEU
1	A	900	GLU
1	A	1069	HIS
1	A	1364	CYS
1	A	1510	LEU
1	A	1891	ALA
1	A	1895	LYS
1	A	2448	PRO
1	A	2465	PRO
1	A	2569	SER
1	A	2805	ALA
1	A	3091	LEU
1	A	3654	MSE
1	A	3720	ALA
1	A	3732	LEU
1	A	4058	VAL
1	B	30	ALA
1	B	74	ASN
1	B	745	VAL
1	B	763	THR
1	B	878	GLU
1	B	997	ASN
1	B	1071	ASN
1	B	1169	VAL
1	B	1247	PRO
1	B	1346	THR
1	B	1423	ILE
1	B	1593	VAL
1	B	1631	SER
1	B	1701	SER
1	B	1707	LEU
1	B	1812	LEU
1	B	1963	GLN
1	B	2016	ASN
1	B	2280	VAL
1	B	2289	ASP
1	B	2292	CYS

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Mol	Chain	Res	Type
1	B	2879	GLY
1	B	2914	ALA
1	B	3129	LEU
1	B	3243	ILE
1	B	3312	VAL
1	B	3472	ILE
1	B	3978	GLY
1	A	74	ASN
1	A	298	LEU
1	A	627	VAL
1	A	763	THR
1	A	1520	ALA
1	A	2289	ASP
1	A	2942	ILE
1	A	3117	ILE
1	A	3317	SER
1	A	3499	ILE
1	A	3711	PRO
1	A	3981	TYR
1	B	187	SER
1	B	298	LEU
1	B	323	VAL
1	B	427	VAL
1	B	627	VAL
1	B	718	MSE
1	B	748	TYR
1	B	1364	CYS
1	B	1738	ASN
1	B	2291	GLN
1	B	2873	PRO
1	B	2976	LEU
1	B	3443	PRO
1	B	4068	HIS
1	A	256	ILE
1	A	411	PRO
1	A	553	VAL
1	A	1637	SER
1	A	2076	VAL
1	A	2505	VAL
1	A	2552	VAL
1	A	2575	PRO
1	A	3025	PRO

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Mol	Chain	Res	Type
1	A	3601	VAL
1	B	50	VAL
1	B	67	VAL
1	B	170	VAL
1	B	2552	VAL
1	B	4058	VAL
1	A	50	VAL
1	A	69	VAL
1	A	1382	ILE
1	A	2156	VAL
1	A	3174	ASP
1	B	948	MSE
1	B	1382	ILE
1	B	2448	PRO
1	B	3331	GLY
1	A	67	VAL
1	A	381	VAL
1	A	447	PRO
1	A	2059	PRO
1	A	2230	VAL
1	A	2324	GLY
1	A	3919	GLY
1	B	381	VAL
1	B	495	VAL
1	B	2230	VAL
1	B	2569	SER
1	B	3919	GLY
1	A	1247	PRO
1	A	1729	PHE
1	B	174	VAL
1	B	544	ILE
1	B	884	VAL
1	B	905	ILE
1	B	1637	SER
1	B	2804	ILE
1	A	1468	LEU
1	A	3178	ILE
1	B	256	ILE
1	B	2802	PRO
1	B	2942	ILE

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 X-ray entries followed by that with respect to entries of similar resolution.

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	3259/3384 (96%)	3064 (94%)	195 (6%)	17	40
1	B	3259/3384 (96%)	3062 (94%)	197 (6%)	17	40
2	K	-	1 (100%)	0	100	100
2	S	-	1 (100%)	0	100	100
All	All	6520/6768 (96%)	6128 (94%)	392 (6%)	17	40

All (392) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	69	VAL
1	A	143	LEU
1	A	177	LEU
1	A	181	LEU
1	A	274	LEU
1	A	277	LEU
1	A	326	MSE
1	A	342	MSE
1	A	360	SER
1	A	361	ILE
1	A	368	LEU
1	A	389	ILE
1	A	392	CYS
1	A	410	MSE
1	A	420	VAL
1	A	440	VAL
1	A	444	ASP
1	A	445	SER
1	A	446	PHE
1	A	464	VAL
1	A	481	THR
1	A	556	SER
1	A	559	SER
1	A	564	LEU

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Mol	Chain	Res	Type
1	A	579	LEU
1	A	593	ASN
1	A	603	ILE
1	A	612	LEU
1	A	630	CYS
1	A	654	ILE
1	A	714	VAL
1	A	726	LEU
1	A	733	LEU
1	A	741	ILE
1	A	745	VAL
1	A	754	MSE
1	A	763	THR
1	A	792	ILE
1	A	858	MSE
1	A	866	ILE
1	A	879	MSE
1	A	884	VAL
1	A	898	PHE
1	A	907	LEU
1	A	924	ARG
1	A	939	MSE
1	A	963	LYS
1	A	965	THR
1	A	970	LEU
1	A	975	ASP
1	A	983	LEU
1	A	988	VAL
1	A	989	MSE
1	A	992	ILE
1	A	993	HIS
1	A	1005	ASP
1	A	1009	LEU
1	A	1010	LEU
1	A	1014	LEU
1	A	1017	ILE
1	A	1024	THR
1	A	1055	ASN
1	A	1068	LEU
1	A	1070	PRO
1	A	1080	LEU
1	A	1105	VAL

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Mol	Chain	Res	Type
1	A	1108	MSE
1	A	1121	LEU
1	A	1131	ILE
1	A	1153	LEU
1	A	1163	LEU
1	A	1180	GLN
1	A	1287	GLN
1	A	1291	LEU
1	A	1347	THR
1	A	1358	LEU
1	A	1364	CYS
1	A	1368	LEU
1	A	1372	LEU
1	A	1402	LEU
1	A	1403	MSE
1	A	1444	ASP
1	A	1463	LEU
1	A	1507	CYS
1	A	1510	LEU
1	A	1526	GLU
1	A	1583	MSE
1	A	1590	THR
1	A	1592	MSE
1	A	1597	LEU
1	A	1639	LEU
1	A	1640	GLU
1	A	1643	MSE
1	A	1718	ILE
1	A	1743	MSE
1	A	1757	MSE
1	A	1758	LEU
1	A	1812	LEU
1	A	1858	LEU
1	A	1883	ARG
1	A	1919	CYS
1	A	1942	CYS
1	A	1947	CYS
1	A	1950	SER
1	A	1959	LEU
1	A	1993	GLU
1	A	1998	MSE
1	A	2012	ARG

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Mol	Chain	Res	Type
1	A	2104	MSE
1	A	2155	GLU
1	A	2187	VAL
1	A	2189	ILE
1	A	2210	VAL
1	A	2215	LEU
1	A	2241	LEU
1	A	2245	TRP
1	A	2277	LEU
1	A	2287	PRO
1	A	2307	MSE
1	A	2322	VAL
1	A	2330	VAL
1	A	2337	LEU
1	A	2338	GLU
1	A	2355	THR
1	A	2362	VAL
1	A	2370	SER
1	A	2402	LEU
1	A	2404	ARG
1	A	2424	MSE
1	A	2473	MSE
1	A	2555	LEU
1	A	2568	MSE
1	A	2776	ARG
1	A	2788	SER
1	A	2869	LEU
1	A	2886	GLN
1	A	2890	ILE
1	A	2900	LEU
1	A	2921	LEU
1	A	2991	LYS
1	A	3011	LEU
1	A	3051	LEU
1	A	3077	ILE
1	A	3084	GLN
1	A	3087	SER
1	A	3092	LEU
1	A	3111	MSE
1	A	3145	ILE
1	A	3173	MSE
1	A	3192	LYS

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Mol	Chain	Res	Type
1	A	3256	MSE
1	A	3258	LEU
1	A	3278	GLN
1	A	3283	LEU
1	A	3326	GLN
1	A	3416	LEU
1	A	3451	LEU
1	A	3471	ILE
1	A	3481	SER
1	A	3503	VAL
1	A	3509	ASP
1	A	3516	HIS
1	A	3518	VAL
1	A	3572	ILE
1	A	3575	LEU
1	A	3670	MSE
1	A	3687	MSE
1	A	3729	MSE
1	A	3756	GLU
1	A	3767	LEU
1	A	3771	MSE
1	A	3774	ILE
1	A	3781	CYS
1	A	3810	VAL
1	A	3811	THR
1	A	3813	LYS
1	A	3824	GLU
1	A	3846	MSE
1	A	3857	LEU
1	A	3883	LEU
1	A	3893	SER
1	A	3895	GLU
1	A	3910	LEU
1	A	3920	ILE
1	A	3928	PHE
1	A	3944	HIS
1	A	3959	MSE
1	A	3963	LEU
1	A	3964	THR
1	A	3967	PHE
1	A	4066	LEU
1	A	4078	VAL

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Mol	Chain	Res	Type
1	A	4104	VAL
1	A	4125	GLU
1	A	4128	MSE
1	B	42	CYS
1	B	69	VAL
1	B	111	CYS
1	B	143	LEU
1	B	145	ASP
1	B	262	LEU
1	B	274	LEU
1	B	298	LEU
1	B	327	VAL
1	B	360	SER
1	B	361	ILE
1	B	368	LEU
1	B	389	ILE
1	B	395	MSE
1	B	410	MSE
1	B	420	VAL
1	B	440	VAL
1	B	444	ASP
1	B	446	PHE
1	B	464	VAL
1	B	475	LEU
1	B	487	LEU
1	B	491	CYS
1	B	559	SER
1	B	564	LEU
1	B	603	ILE
1	B	612	LEU
1	B	633	ILE
1	B	653	LEU
1	B	654	ILE
1	B	733	LEU
1	B	741	ILE
1	B	745	VAL
1	B	763	THR
1	B	792	ILE
1	B	865	GLN
1	B	898	PHE
1	B	901	MSE
1	B	904	VAL

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Mol	Chain	Res	Type
1	B	907	LEU
1	B	924	ARG
1	B	965	THR
1	B	966	PHE
1	B	970	LEU
1	B	975	ASP
1	B	987	LEU
1	B	988	VAL
1	B	989	MSE
1	B	993	HIS
1	B	1000	LYS
1	B	1005	ASP
1	B	1009	LEU
1	B	1010	LEU
1	B	1017	ILE
1	B	1024	THR
1	B	1036	PHE
1	B	1070	PRO
1	B	1093	GLU
1	B	1105	VAL
1	B	1108	MSE
1	B	1121	LEU
1	B	1131	ILE
1	B	1153	LEU
1	B	1163	LEU
1	B	1287	GLN
1	B	1347	THR
1	B	1354	GLU
1	B	1372	LEU
1	B	1392	MSE
1	B	1399	CYS
1	B	1402	LEU
1	B	1430	GLU
1	B	1471	GLN
1	B	1507	CYS
1	B	1583	MSE
1	B	1590	THR
1	B	1596	VAL
1	B	1597	LEU
1	B	1602	ASP
1	B	1639	LEU
1	B	1718	ILE

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Mol	Chain	Res	Type
1	B	1725	GLN
1	B	1733	THR
1	B	1743	MSE
1	B	1758	LEU
1	B	1807	LYS
1	B	1812	LEU
1	B	1858	LEU
1	B	1909	ASN
1	B	1927	MSE
1	B	1930	GLU
1	B	1950	SER
1	B	1959	LEU
1	B	1973	LYS
1	B	1974	ASN
1	B	1976	LEU
1	B	1986	ARG
1	B	1993	GLU
1	B	1998	MSE
1	B	1999	GLU
1	B	2012	ARG
1	B	2023	SER
1	B	2079	ASP
1	B	2104	MSE
1	B	2126	MSE
1	B	2137	ILE
1	B	2155	GLU
1	B	2187	VAL
1	B	2210	VAL
1	B	2215	LEU
1	B	2239	LYS
1	B	2245	TRP
1	B	2265	PRO
1	B	2277	LEU
1	B	2281	MSE
1	B	2287	PRO
1	B	2322	VAL
1	B	2325	LEU
1	B	2330	VAL
1	B	2338	GLU
1	B	2355	THR
1	B	2362	VAL
1	B	2370	SER

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Mol	Chain	Res	Type
1	B	2374	LEU
1	B	2402	LEU
1	B	2439	ILE
1	B	2555	LEU
1	B	2559	THR
1	B	2576	MSE
1	B	2776	ARG
1	B	2788	SER
1	B	2803	ILE
1	B	2820	MSE
1	B	2865	HIS
1	B	2886	GLN
1	B	2890	ILE
1	B	2900	LEU
1	B	2921	LEU
1	B	2929	LEU
1	B	2991	LYS
1	B	3011	LEU
1	B	3044	MSE
1	B	3048	LYS
1	B	3050	LYS
1	B	3051	LEU
1	B	3061	LEU
1	B	3077	ILE
1	B	3087	SER
1	B	3103	ILE
1	B	3113	ASN
1	B	3118	ASP
1	B	3145	ILE
1	B	3155	VAL
1	B	3238	MSE
1	B	3242	MSE
1	B	3258	LEU
1	B	3282	ARG
1	B	3283	LEU
1	B	3397	GLN
1	B	3403	CYS
1	B	3416	LEU
1	B	3451	LEU
1	B	3471	ILE
1	B	3509	ASP
1	B	3518	VAL

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Mol	Chain	Res	Type
1	B	3641	ASP
1	B	3689	ASP
1	B	3767	LEU
1	B	3774	ILE
1	B	3796	MSE
1	B	3810	VAL
1	B	3813	LYS
1	B	3815	LEU
1	B	3820	MSE
1	B	3829	LEU
1	B	3846	MSE
1	B	3856	MSE
1	B	3857	LEU
1	B	3858	MSE
1	B	3883	LEU
1	B	3895	GLU
1	B	3910	LEU
1	B	3917	ILE
1	B	3920	ILE
1	B	3938	ILE
1	B	3944	HIS
1	B	3959	MSE
1	B	3963	LEU
1	B	3964	THR
1	B	3970	LEU
1	B	4020	MSE
1	B	4066	LEU
1	B	4078	VAL
1	B	4100	GLU
1	B	4104	VAL
1	B	4105	LYS
1	B	4119	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (107) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	233	ASN
1	A	334	HIS
1	A	351	ASN
1	A	477	ASN
1	A	484	HIS
1	A	508	HIS

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Mol	Chain	Res	Type
1	A	591	GLN
1	A	783	HIS
1	A	869	ASN
1	A	982	GLN
1	A	1004	GLN
1	A	1069	HIS
1	A	1083	ASN
1	A	1146	ASN
1	A	1385	ASN
1	A	1394	HIS
1	A	1418	HIS
1	A	1426	GLN
1	A	1459	HIS
1	A	1465	HIS
1	A	1476	HIS
1	A	1574	ASN
1	A	1687	HIS
1	A	1890	HIS
1	A	2016	ASN
1	A	2170	GLN
1	A	2177	ASN
1	A	2183	HIS
1	A	2234	ASN
1	A	2305	ASN
1	A	2352	HIS
1	A	2426	HIS
1	A	2456	ASN
1	A	2518	GLN
1	A	2885	GLN
1	A	2971	GLN
1	A	3003	ASN
1	A	3037	GLN
1	A	3081	HIS
1	A	3108	GLN
1	A	3122	HIS
1	A	3166	ASN
1	A	3251	ASN
1	A	3291	GLN
1	A	3319	ASN
1	A	3390	GLN
1	A	3501	HIS
1	A	3602	ASN

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Mol	Chain	Res	Type
1	A	3762	GLN
1	A	3915	HIS
1	A	3927	ASN
1	A	3951	GLN
1	A	4018	GLN
1	A	4068	HIS
1	B	32	HIS
1	B	54	GLN
1	B	191	ASN
1	B	207	GLN
1	B	278	HIS
1	B	351	ASN
1	B	390	GLN
1	B	409	GLN
1	B	415	GLN
1	B	437	HIS
1	B	442	GLN
1	B	508	HIS
1	B	593	ASN
1	B	990	GLN
1	B	993	HIS
1	B	1055	ASN
1	B	1071	ASN
1	B	1238	GLN
1	B	1251	GLN
1	B	1350	ASN
1	B	1466	ASN
1	B	1476	HIS
1	B	1477	HIS
1	B	1574	ASN
1	B	1687	HIS
1	B	1754	GLN
1	B	1866	GLN
1	B	1890	HIS
1	B	1897	ASN
1	B	2050	GLN
1	B	2077	HIS
1	B	2141	ASN
1	B	2152	ASN
1	B	2177	ASN
1	B	2291	GLN
1	B	2301	GLN

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Mol	Chain	Res	Type
1	B	2365	ASN
1	B	2475	ASN
1	B	2481	HIS
1	B	2518	GLN
1	B	2534	ASN
1	B	3023	ASN
1	B	3104	GLN
1	B	3105	ASN
1	B	3108	GLN
1	B	3154	GLN
1	B	3459	ASN
1	B	3494	GLN
1	B	3772	ASN
1	B	3808	ASN
1	B	3908	HIS
1	B	3926	ASN
1	B	4018	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	K	1
2	S	1
1	B	1
1	A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K	133:UNK	C	201:UNK	N	46.74
1	S	133:UNK	C	201:UNK	N	41.40
1	B	3794:VAL	C	3795:PRO	N	1.18
1	A	1069:HIS	C	1070:PRO	N	1.15

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9
1	A	3551/4128 (86%)	0.64	210 (5%)	28 28	83, 248, 332, 443	0
1	B	3551/4128 (86%)	0.72	246 (6%)	23 24	117, 251, 358, 507	0
2	K	0/194	-	-	-	-	-
2	S	0/194	-	-	-	-	-
All	All	7102/8644 (82%)	0.68	456 (6%)	25 26	83, 249, 343, 507	0

All (456) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	3976	GLU	8.1
1	A	591	GLN	8.0
1	A	1586	SER	7.3
1	B	157	TYR	7.3
1	B	1874	TYR	7.2
1	B	161	ALA	6.4
1	A	1523	GLY	6.2
1	B	738	HIS	6.0
1	B	265	TYR	6.0
1	A	1589	ASN	5.9
1	B	2930	TYR	5.8
1	B	1881	TYR	5.6
1	B	3341	LEU	5.5
1	A	3064	PHE	5.5
1	A	980	THR	5.4
1	A	645	TRP	5.3
1	B	153	PHE	5.3
1	A	1560	TYR	5.1
1	B	2170	GLN	5.1
1	A	1763	THR	5.1
1	A	215	PRO	5.1
1	A	2065	ARG	5.0

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Mol	Chain	Res	Type	RSRZ
1	B	980	THR	5.0
1	A	3255	ALA	5.0
1	B	3966	GLN	4.9
1	B	991	LEU	4.9
1	A	3279	SER	4.7
1	A	580	ASP	4.7
1	B	1557	GLU	4.6
1	A	3308	ASP	4.4
1	A	962	TYR	4.4
1	B	963	LYS	4.4
1	A	2093	CYS	4.4
1	B	3308	ASP	4.3
1	A	2183	HIS	4.2
1	B	620	PHE	4.2
1	B	2143	ARG	4.1
1	A	2125	TRP	4.1
1	A	2527	HIS	4.1
1	B	2075	THR	4.0
1	B	2999	LEU	4.0
1	B	4083	GLY	4.0
1	B	2792	THR	4.0
1	A	1071	ASN	4.0
1	B	2164	TRP	3.9
1	A	590	GLU	3.9
1	B	2430	GLU	3.9
1	B	2546	TYR	3.9
1	A	1506	SER	3.9
1	B	1813	SER	3.9
1	B	1732	GLY	3.8
1	A	1987	ARG	3.8
1	A	1874	TYR	3.8
1	A	2164	TRP	3.8
1	A	3509	ASP	3.8
1	A	1557	GLU	3.8
1	A	3288	SER	3.7
1	B	3234	CYS	3.7
1	A	1522	GLY	3.7
1	A	220	LEU	3.7
1	B	2321	GLU	3.7
1	A	776	TRP	3.7
1	A	1219	PHE	3.7
1	B	215	PRO	3.7

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Mol	Chain	Res	Type	RSRZ
1	A	2546	TYR	3.7
1	A	892	LEU	3.6
1	A	799	TYR	3.6
1	B	3875	GLU	3.6
1	B	3879	PRO	3.5
1	B	1082	PHE	3.5
1	B	962	TYR	3.5
1	A	4055	ASN	3.5
1	B	1814	PHE	3.5
1	B	2563	LEU	3.4
1	B	623	PHE	3.4
1	A	2807	GLN	3.4
1	B	3276	TRP	3.4
1	B	3086	LEU	3.4
1	B	3753	LYS	3.4
1	A	3164	TRP	3.3
1	B	966	PHE	3.3
1	B	572	VAL	3.3
1	A	1519	PHE	3.3
1	B	249	PHE	3.3
1	B	443	ILE	3.3
1	B	3510	GLN	3.3
1	B	1689	LYS	3.3
1	A	931	CYS	3.3
1	A	2868	LEU	3.3
1	B	972	LEU	3.2
1	B	1589	ASN	3.2
1	A	1761	LEU	3.2
1	B	1086	TYR	3.2
1	A	280	SER	3.2
1	B	2201	THR	3.2
1	A	2095	ALA	3.2
1	A	1585	SER	3.2
1	B	2010	GLU	3.2
1	B	3089	LEU	3.2
1	B	3758	LEU	3.2
1	A	1907	GLU	3.2
1	B	2471	GLU	3.2
1	A	1231	GLN	3.1
1	B	2784	GLN	3.1
1	B	1101	PHE	3.1
1	B	1075	ARG	3.1

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Mol	Chain	Res	Type	RSRZ
1	B	1494	GLY	3.1
1	A	2875	ALA	3.1
1	A	1593	VAL	3.1
1	A	1082	PHE	3.1
1	A	1086	TYR	3.1
1	A	3282	ARG	3.1
1	B	1985	LYS	3.1
1	B	917	LEU	3.1
1	B	1803	GLU	3.1
1	A	62	ASP	3.1
1	B	2131	GLY	3.1
1	B	2549	LYS	3.1
1	B	280	SER	3.1
1	B	1488	TYR	3.1
1	B	645	TRP	3.1
1	B	739	ASN	3.1
1	B	2078	ASP	3.1
1	B	2938	VAL	3.1
1	B	2021	GLY	3.0
1	A	241	ASP	3.0
1	A	563	LEU	3.0
1	B	1443	VAL	3.0
1	A	301	CYS	3.0
1	B	2440	TYR	3.0
1	B	3565	GLY	3.0
1	A	1963	GLN	3.0
1	B	720	GLN	3.0
1	A	3627	ALA	3.0
1	A	1075	ARG	3.0
1	B	1487	VAL	3.0
1	B	737	PRO	3.0
1	A	1266	CYS	3.0
1	B	776	TRP	2.9
1	A	3855	TYR	2.9
1	B	245	SER	2.9
1	A	1995	GLU	2.9
1	B	666	PHE	2.9
1	B	1870	LYS	2.9
1	B	2898	LEU	2.9
1	A	897	PRO	2.9
1	A	3193	ILE	2.9
1	A	458	CYS	2.9

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Mol	Chain	Res	Type	RSRZ
1	B	3809	THR	2.9
1	A	620	PHE	2.9
1	B	867	ASN	2.9
1	B	1006	THR	2.8
1	B	1255	CYS	2.8
1	B	2275	GLN	2.8
1	A	595	ASP	2.8
1	B	1071	ASN	2.8
1	A	157	TYR	2.8
1	B	3612	ARG	2.8
1	A	2311	ARG	2.8
1	A	1570	GLU	2.8
1	B	2412	TYR	2.8
1	B	1799	GLU	2.8
1	B	672	ILE	2.7
1	A	2143	ARG	2.7
1	B	3759	ARG	2.7
1	A	303	HIS	2.7
1	A	3285	HIS	2.7
1	A	1800	SER	2.7
1	A	3633	ILE	2.7
1	A	3897	PHE	2.7
1	B	542	ASP	2.7
1	A	589	GLY	2.7
1	A	1732	GLY	2.7
1	A	3311	ASN	2.7
1	A	2267	SER	2.7
1	B	2418	LYS	2.7
1	A	3273	LEU	2.7
1	B	3624	GLY	2.7
1	B	2217	ASN	2.7
1	A	3252	PHE	2.7
1	B	2071	GLN	2.7
1	B	227	LEU	2.7
1	A	2867	ALA	2.7
1	B	31	GLY	2.7
1	A	2098	THR	2.7
1	A	2865	HIS	2.6
1	B	191	ASN	2.6
1	B	1938	ARG	2.6
1	A	513	GLU	2.6
1	B	1569	THR	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	3790	THR	2.6
1	A	2487	PRO	2.6
1	B	23	ASP	2.6
1	A	192	ASN	2.6
1	A	319	PHE	2.6
1	B	1373	VAL	2.6
1	A	3493	TRP	2.6
1	B	1728	GLU	2.6
1	A	2459	VAL	2.6
1	B	2959	ALA	2.6
1	B	1873	TYR	2.6
1	B	2567	SER	2.6
1	A	485	GLN	2.6
1	B	1254	LEU	2.6
1	A	3276	TRP	2.6
1	A	4061	CYS	2.6
1	A	1558	TYR	2.6
1	A	642	PHE	2.5
1	B	3126	LEU	2.5
1	B	193	ALA	2.5
1	A	3610	TYR	2.5
1	B	3337	ILE	2.5
1	B	3500	SER	2.5
1	B	2894	GLU	2.5
1	B	3038	GLU	2.5
1	A	2097	LEU	2.5
1	A	2535	THR	2.5
1	B	973	ALA	2.5
1	B	1378	GLU	2.5
1	B	1817	GLN	2.5
1	B	2822	LYS	2.5
1	B	2238	ILE	2.5
1	A	1272	GLY	2.5
1	B	1151	ARG	2.5
1	A	1161	ALA	2.5
1	A	3460	GLU	2.5
1	A	2219	LEU	2.5
1	A	1255	CYS	2.5
1	B	2183	HIS	2.5
1	A	1582	LEU	2.5
1	B	908	ASP	2.5
1	B	1076	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	3509	ASP	2.5
1	B	628	GLU	2.5
1	A	859	LEU	2.4
1	B	413	PHE	2.4
1	A	2041	SER	2.4
1	B	1739	TYR	2.4
1	B	2799	GLN	2.4
1	A	1090	ARG	2.4
1	B	904	VAL	2.4
1	B	1922	ALA	2.4
1	B	3018	SER	2.4
1	B	708	VAL	2.4
1	B	241	ASP	2.4
1	B	2416	LYS	2.4
1	B	3008	TRP	2.4
1	A	1347	THR	2.4
1	B	1442	GLN	2.4
1	B	1399	CYS	2.4
1	B	2308	SER	2.4
1	B	4101	GLU	2.4
1	B	1077	GLY	2.4
1	A	991	LEU	2.4
1	A	3041	LEU	2.4
1	A	940	PHE	2.4
1	B	1987	ARG	2.4
1	B	2136	PRO	2.4
1	B	3262	LEU	2.4
1	A	1286	ALA	2.4
1	A	2224	PHE	2.4
1	A	1159	PRO	2.4
1	A	2795	GLN	2.4
1	A	3130	GLN	2.4
1	B	1053	PRO	2.4
1	B	1674	THR	2.4
1	B	503	SER	2.4
1	B	3254	LEU	2.4
1	A	1864	ASP	2.4
1	A	514	VAL	2.4
1	B	869	ASN	2.4
1	B	3070	HIS	2.4
1	A	558	GLU	2.4
1	B	3473	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	2134	GLY	2.4
1	A	3245	SER	2.4
1	B	283	SER	2.4
1	B	2019	SER	2.4
1	A	1801	VAL	2.4
1	A	984	TYR	2.4
1	A	1881	TYR	2.4
1	B	1945	TYR	2.4
1	A	3651	LEU	2.4
1	B	3273	LEU	2.4
1	B	2859	GLN	2.3
1	A	3616	ALA	2.3
1	B	125	ILE	2.3
1	B	1977	ILE	2.3
1	B	556	SER	2.3
1	A	1026	ARG	2.3
1	B	25	CYS	2.3
1	A	3465	PHE	2.3
1	B	3616	ALA	2.3
1	A	1906	THR	2.3
1	A	3630	ARG	2.3
1	B	627	VAL	2.3
1	B	2148	LYS	2.3
1	A	1377	CYS	2.3
1	B	3169	PRO	2.3
1	A	3943	GLY	2.3
1	A	3291	GLN	2.3
1	B	1265	GLU	2.3
1	A	588	VAL	2.3
1	A	1340	ARG	2.3
1	B	1149	LYS	2.3
1	B	1822	ARG	2.3
1	B	435	LEU	2.3
1	A	906	PHE	2.3
1	A	3006	ALA	2.3
1	A	3510	GLN	2.3
1	A	870	LEU	2.3
1	B	2900	LEU	2.3
1	A	3124	SER	2.3
1	B	138	PHE	2.3
1	B	1731	PRO	2.3
1	B	439	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	638	GLN	2.3
1	B	1231	GLN	2.3
1	A	875	SER	2.3
1	A	3083	SER	2.3
1	B	3317	SER	2.3
1	A	3337	ILE	2.3
1	B	3785	ALA	2.3
1	A	917	LEU	2.3
1	A	3958	LEU	2.3
1	B	2819	GLU	2.3
1	A	3818	ASN	2.3
1	B	4005	PHE	2.3
1	A	671	SER	2.3
1	A	600	VAL	2.3
1	A	3692	VAL	2.3
1	A	4117	LEU	2.3
1	A	1155	ARG	2.3
1	B	2904	GLU	2.2
1	A	2096	PRO	2.2
1	B	1020	PRO	2.2
1	B	2041	SER	2.2
1	A	1901	HIS	2.2
1	B	2072	ARG	2.2
1	B	1715	GLU	2.2
1	B	248	ILE	2.2
1	B	3493	TRP	2.2
1	B	2921	LEU	2.2
1	B	72	SER	2.2
1	B	1800	SER	2.2
1	B	2961	ALA	2.2
1	A	1888	ASP	2.2
1	A	125	ILE	2.2
1	B	1060	PHE	2.2
1	A	2253	TYR	2.2
1	B	3114	TYR	2.2
1	A	1395	LEU	2.2
1	A	587	THR	2.2
1	B	2552	VAL	2.2
1	B	3685	PRO	2.2
1	A	1164	CYS	2.2
1	B	906	PHE	2.2
1	B	1910	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	252	VAL	2.2
1	B	2061	PRO	2.2
1	B	3548	GLY	2.2
1	A	1233	SER	2.2
1	B	1561	SER	2.2
1	B	2124	SER	2.2
1	A	2804	ILE	2.2
1	B	2433	LYS	2.2
1	B	3985	VAL	2.2
1	A	511	SER	2.2
1	A	3318	LYS	2.2
1	B	3496	ILE	2.2
1	B	262	LEU	2.2
1	A	1754	GLN	2.2
1	A	1898	GLN	2.2
1	A	1339	VAL	2.2
1	A	1022	ASP	2.2
1	A	2919	ASP	2.2
1	A	3916	TRP	2.2
1	A	18	THR	2.2
1	B	3495	PHE	2.2
1	B	1261	LEU	2.2
1	B	3041	LEU	2.2
1	B	11	SER	2.2
1	B	3245	SER	2.2
1	A	1343	GLU	2.2
1	A	1055	ASN	2.1
1	B	4115	ASN	2.1
1	B	731	THR	2.1
1	A	237	SER	2.1
1	A	2932	SER	2.1
1	B	3830	SER	2.1
1	A	1488	TYR	2.1
1	A	3352	GLU	2.1
1	A	3254	LEU	2.1
1	B	1014	LEU	2.1
1	A	998	ASN	2.1
1	A	2141	ASN	2.1
1	B	3327	ASN	2.1
1	B	3063	THR	2.1
1	A	482	VAL	2.1
1	B	2827	SER	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	2148	LYS	2.1
1	A	3666	LEU	2.1
1	B	719	LYS	2.1
1	B	740	ILE	2.1
1	B	1032	CYS	2.1
1	B	2268	LYS	2.1
1	B	2547	SER	2.1
1	A	1807	LYS	2.1
1	A	3418	ASP	2.1
1	B	264	ARG	2.1
1	B	959	TYR	2.1
1	B	4032	ASN	2.1
1	A	1473	THR	2.1
1	B	1590	THR	2.1
1	A	2966	SER	2.1
1	A	3511	ALA	2.1
1	B	715	ALA	2.1
1	A	507	ASP	2.1
1	A	116	THR	2.1
1	A	374	LYS	2.1
1	A	3074	GLN	2.1
1	B	341	PHE	2.1
1	A	505	SER	2.1
1	A	1151	ARG	2.1
1	B	2044	ASP	2.1
1	A	3082	TYR	2.1
1	B	1164	CYS	2.1
1	B	2411	LEU	2.1
1	B	4061	CYS	2.1
1	B	109	ASN	2.1
1	B	1754	GLN	2.1
1	B	24	ARG	2.0
1	A	612	LEU	2.0
1	A	3877	LYS	2.0
1	B	975	ASP	2.0
1	B	1350	ASN	2.0
1	B	3457	ASN	2.0
1	B	2406	GLU	2.0
1	B	1550	VAL	2.0
1	B	2186	VAL	2.0
1	A	2068	ARG	2.0
1	A	972	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
1	A	1714	LEU	2.0
1	B	3258	LEU	2.0
1	A	744	ASP	2.0
1	A	3978	GLY	2.0
1	B	4079	ALA	2.0
1	A	126	PRO	2.0
1	A	1275	THR	2.0
1	A	1390	GLN	2.0
1	B	967	PRO	2.0
1	A	2303	LEU	2.0
1	A	138	PHE	2.0
1	A	3661	ASP	2.0
1	A	1287	GLN	2.0
1	B	1714	LEU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.