



Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Jul 24, 2017 – 02:18 AM EDT

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

This is a Full wwPDB/EMDatabank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

MolProbity : 4.02b-467
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20029824

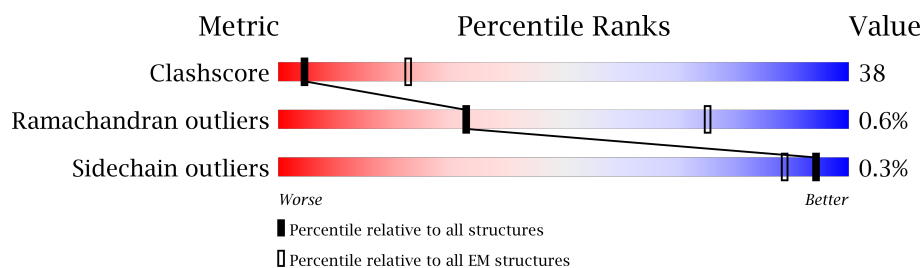
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.46 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	125131	1336
Ramachandran outliers	121729	1120
Sidechain outliers	121581	1026

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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 $\leq 5\%$.

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

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 55415 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called TcdA1.

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




P1989	K2087	A2176	N2252	L337	V2429
P1992	S2088	D2177	W2253	L2337	Q2430
L1995	K2089	K2178	L2254	N2348	S2434
L1996	G2091	I2179	L2258	K2359	G2436
G2007	S2094	E2183	F2263	L2360	D2437
K2008	R2095	T2184	Q2264	Q2363	K2438
L2009	R2096	Y2185	F2265	Q2363	G2439
P2010	D2097	R2186	Y2266	S2365	G2440
E2011	S2098	R2187	R2272	S2365	L2441
S2012	Y2099	R2188	C2273	S2370	A2442
F2013	L2102	R2189	C2273	G2371	N2443
M2014	Y2103	W2192	E2277	N2372	E2446
S2015	D2104	E2193	Q2278	N2373	A2447
L2016	E2105	I2194	A2279	N2374	L2448
W2017	N2106	Q2195	Y2280	L2375	A2449
R2018	I2107	R2196	R2281	Y2376	Y2450
F2019	N2108	R2197	W2282	F2377	S2451
P2020	A2109	N2198	E2283	D2382	H2452
H2021	G2110	A2199	L2284	T2383	G2453
M2022	E2111	E2200	L2284	K2384	M2454
L2023	A2114	A2201	D2287	T2385	G2458
E2024	N2025	E2202	S2288	S2386	Q2459
N2026	L2117	L2203	A2289	L2387	Q2461
R2027	R2118	Q2204	R2290	F2391	F2464
G2028	R2119	Q2205	F2291	L2392	N2465
M2029	A2119	I2206	I2292	P2393	D2466
F2036	S2120	D2207	K2293	S2392	G2467
T2039	A2121	D2208	P2294	G2397	K2468
I2044	A2122	Q2209	G2295	I2398	P2471
Q2047	G2123	L2210	A2296	R2399	F2472
A2054	L2124	K2211	W2297	E2400	E2473
N2058	T2125	S2212	Y2301	D2401	G2474
Q2059	T2126	L2213	L2305	Y2402	I2475
I2070	A2127	V2215	E2308	P2403	T2483
Q2071	V2128	R2216	T2309	A2404	S2490
D2072	Q2129	E2217	L2310	S2405	Q2497
K2073	P2142	A2218	W2311	G2407	L2497
T2074	N2143	E2219	L2312	K2408	M2500
I2075	N2144	Y2221	S2313	I2409	L2501
E2076	W2154	L2222	L2314	R2411	S111
E2077	G2155	Q2223	E2318	R2413	S114
L2078	A2156	K2224	K2323	V2417	P115
D2079	I2157	Q2233	R2324	T2418	A116
K2082	E2159	S2236	R2327	L2419	A117
T2083	M2165	A2239	A2328	P2420	Y118
V2084	F2167	R2243	L2329	L2509	L119
L2085	S2168	R2243	R2330	R2512	T120
M2172	A2169	F2245	V2331	Y2513	E121
N2173	N2170	L2250	E2332	T2514	L122
	V2171	Y2251	T2334	Y2426	D215
	N2173				

• Molecule 1: TcdA1

Chain B: 30% 27% 43%

MET	LEU	R124	P216	LEU	THR	TLE	ASP	GLY
ASN	TYR	E125	GLY	TYR	ALA	LEU	ARG	LYS
GLU	ALA	L129	LEU	GLU	MET	THR	PHE	ILE
SER	GLN	L136	GLN	PRO	GLU	ASN	ASN	ASN
VAL	ARG	Y137	LEU	GLN	TYR	THR	THR	THR
LYS	ILE	L138	ASN	TYR	LEU	ASP	PRO	LEU
GLU	LYS	L139	ALA	LYS	LEU	ILE	LEU	LYS
ILE	PRO	R140	PRO	ARG	LYS	THR	LEU	ASN
PRO	ARG	T141	TYR	TYR	ARG	ASN	ASP	ASN
ASP	ALA	R142	PRO	TYR	THR	ASN	GLY	LEU
VAL	VAL	P143	ASN	ASN	THR	THR	THR	ASN
LEU	PRO	D144	ILE	LEU	GLY	GLY	PHE	THR
LYS	GLN	M148	GLY	LEU	GLY	ASP	ASP	THR
SER	LEU	L149	LEU	GLN	GLY	GLY	ILE	THR
GLN	ASN	L150	MET	GLU	GLU	THR	THR	GLY
CYS	VAL	S151	HIS	GLN	GLU	ARG	GLY	LYS
THR	HIS	Q152	LEU	VAL	LEU	TYR	VAL	ASP
ASP	LEU	D155	SER	ALA	SER	LEU	LEU	GLU
LEU	ALA	M156	LEU	GLN	GLN	PRO	GLU	ALA
THR	LEU	L159	LEU	ILE	LYS	ASP	GLY	ASP
ASP	ALA	S160	THR	THR	ALA	THR	THR	ILE
GLU	ASN	T161	ASN	ALA	SER	ALA	GLY	HIS
GLN	PRO	L162	GLU	ASN	ASN	ALA	ASP	GLN
GLY	LEU	S163	SER	GLY	PHE	ALA	THR	THR
THR	LEU	L164	PRO	ILE	GLY	ALA	GLY	GLY
ASP	GLU	S165	GLU	THR	THR	LYS	ASP	THR
THR	THR	N166	LEU	THR	THR	ASN	TRP	ARG
THR	PHE	L169	THR	PHE	TYR	LEU	ARG	LEU
THR	ASN	L170	ASN	SER	LEU	LYS	LYS	LEU
THR	ILE	E171	ILE	ASN	THR	ILE	THR	THR
THR	LEU	S172	LEU	ASN	GLN	GLU	ASN	THR
GLU	GLU	I173	GLU	LEU	LEU	THR	ASN	THR
GLU	THR	Y182	GLU	THR	ILE	THR	ASP	THR
GLU	THR	T183	THR	THR	THR	THR	LYS	THR
GLU	THR	K184	THR	PRO	PRO	THR	PHE	THR
GLY	GLY	V185	GLY	VAL	GLU	VAL	ASN	THR
ASN	ASN	M186	ASN	VAL	VAL	VAL	LEU	LEU
ALA	ALA	E187	ALA	ASN	ASN	LYS	LEU	LEU
GLU	ALA	M188	THR	ASN	ASN	LEU	ASN	ASN
GLU	GLU	L189	GLU	SER	SER	LEU	VAL	SER
LEU	LEU	S190	GLU	THR	THR	ASN	ASP	ALA
TYR	TYR	T191	GLY	THR	GLY	THR	PHE	THR
LYS	LYS	F192	VAL	VAL	ALA	ALA	ASP	THR
LYS	LYS	R193	GLN	LYS	GLN	ARG	LEU	LYS
ASN	ASN	P194	VAL	VAL	VAL	LEU	LEU	LEU
PHE	PHE	S195	THR	THR	THR	THR	ILE	THR
GLY	GLY	E209	ILE	ARG	ASN	THR	THR	THR
ILE	ASN	V210	THR	THR	GLU	THR	ASP	THR
GLU	GLU	L213	THR	THR	GLU	THR	GLY	THR
PRO	PRO	Q214	ARG	ARG	LEU	LEU	ASN	THR
ALA	ALA	D215	THR	THR	THR	THR	ALA	THR
SER	SER		THR	THR	THR	THR	ASN	THR



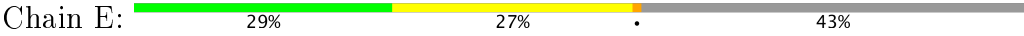

Q1594	MET	LYS	THR	ASP	V1285	H1202	K1130	Y1044	I973	LEU	ALA	ALA	ALA	THR	THR	ILE	LEU
Y1595	ASN	GLN	GLN	LEU	Y1286	I1203	F1131	I1045	D974	GLN	SER	SER	SER	LEU	SER	LYS	PHE
M1596	GLN	ILE	THR	ILE	R1287	R1204	N1132	D1046	M975	TRP	VAL	VAL	VAL	GLN	TRP	ASN	ASN
Q1597	PHE	GLY	GLY	THR	S1290	Y1205	D1133	—	Q976	ASN	ALA	ALA	ALA	LEU	THR	LYS	LEU
W1598	ASN	MET	ASN	ILE	Y1291	G1207	K1135	R1049	S978	VAL	ALA	ALA	ALA	SER	GLN	THR	LEU
Q1599	ALA	THR	THR	SER	Q1292	T1208	F1136	Q1083	I981	GLN	PHE	GLU	GLU	SER	VAL	GLN	LEU
W1600	LEU	ASP	SER	PRO	Q1293	W1209	A1137	T1094	K982	GLN	ALA	VAL	VAL	GLU	TRP	ASN	ASN
Y1601	GLU	SER	GLY	LEU	Q1294	Y1295	A1138	K1055	T983	LEU	ALA	HIS	HIS	SER	ASN	GLN	GLY
R1602	ILE	LYS	LEU	LEU	F1294	—	N1139	M1056	T984	ASN	ALA	VAL	VAL	LEU	THR	TYR	TYR
T1603	ASP	GLY	ASN	ARG	T1296	I1213	W1141	M1057	R985	VAL	SER	THR	HIS	PHE	GLN	PHE	THR
R1604	GLY	THR	GLN	ILE	—	T1214	S1142	D1058	I986	ALA	THR	ILE	ILE	SER	LEU	ILE	SER
L1605	SER	ALA	GLY	ARG	F1215	—	E1143	—	—	—	—	—	—	GLY	GLY	GLY	THR
W1606	GLY	THR	ARG	HIS	—	—	W1144	L1060	—	—	—	—	—	LEU	LEU	ASP	ILE
A1610	LEU	ASP	LEU	ASN	R1300	N1218	W1145	—	T990	G899	ALA	ALA	ALA	LEU	ASP	ASP	ASP
V1614	ASN	VAL	LEU	GLY	V1302	K1219	H1145	—	L900	L900	GLU	GLU	GLU	LEU	ASP	ASP	ASP
A1615	ASN	SER	PHE	THR	N1303	K1220	K1146	V1064	S992	D901	GLN	GLN	GLN	LEU	ASP	ASP	ASP
R1616	ASN	VAL	ASP	ARG	T1305	I1221	P1153	Q1068	Q994	Y902	ALA	ALA	ALA	THR	SER	SER	THR
D1622	ALA	GLU	THR	GLY	—	S1222	Y1154	L1069	L995	Q904	ASP	ARG	ARG	LEU	LEU	ASP	ASP
T1623	ALA	THR	THR	ARG	ALA	E1223	Y1155	—	—	S905	LEU	PHE	PHE	LEU	SER	SER	SER
I1624	ASP	ILE	THR	ASN	ASP	K1225	S1156	D1072	N998	K907	ASN	VAL	VAL	PRO	ASN	THR	THR
I1625	ASP	ALA	THR	GLN	GLU	L1226	P1160	F1078	A1000	E908	LEU	THR	THR	GLY	GLY	GLY	GLY
S1626	VAL	ILE	LYS	ASN	ILE	E1227	I1161	M1079	L1001	E908	ASP	LYS	LYS	LEU	LEU	LEU	LEU
—	THR	SER	VAL	LEU	GLU	—	I1162	S1080	E1002	—	ALA	PRO	PRO	GLY	GLY	ASP	ASP
—	THR	GLU	THR	LEU	THR	—	Y1163	Y1081	—	—	ASN	GLU	GLU	ALA	ALA	ASP	ASP
—	ALA	THR	THR	ARG	ASP	—	Y1168	L1082	V1004	L922	LEU	LEU	LEU	THR	THR	THR	THR
—	ALA	ALA	ALA	LYS	THR	—	Y1170	T1083	E1005	Q929	GLY	ALA	ALA	ILE	ILE	ARG	ARG
—	THR	VAL	ILE	THR	THR	—	W1171	Y1088	A1008	Q930	GLN	GLN	GLN	LYS	LYS	LYS	LYS
Q1633	PHE	GLN	PRO	GLY	ARG	E1242	L1172	L1091	I1013	N932	SER	THR	THR	ASN	ASN	THR	THR
E1634	ALA	ILE	GLY	GLY	LYS	D1243	—	K1092	S1014	N932	ILE	GLY	GLY	LEU	LEU	ILE	ILE
P1635	GLU	ILE	ALA	LEU	ASP	T1244	E1173	Y1093	L934	T933	GLN	GLN	GLN	VAL	VAL	VAL	VAL
Q1636	GLY	VAL	LYS	LEU	THR	L1245	Q1174	—	R1045	R935	ALA	ALA	ALA	THR	THR	ARG	ARG
G1638	ARG	LYS	ALA	ASP	GLY	L1246	—	Y1097	Q1016	A936	LEU	PRO	PRO	VAL	VAL	GLY	GLY
K1639	LYS	ALA	SER	LYS	THR	V1247	I1177	H1098	F1017	F937	ASN	ALA	ALA	TYR	TYR	GLY	GLY
G1640	LEU	GLY	LEU	PHE	GLY	M1248	THR	H1098	—	—	HIS	HIS	HIS	HIS	ASP	ASP	ASP
F1641	GLY	THR	THR	ILE	ASP	F1249	LYS	D1099	F1018	L938	ASN	ASN	ASN	GLY	GLY	GLY	GLY
Y1642	THR	LYS	ASN	VAL	THR	Y1250	GLN	N1100	—	D939	GLN	GLN	GLN	LEU	LEU	LEU	LEU
A1643	GLU	GLN	THR	VAL	THR	N1251	THR	I1101	I1019	—	HIS	ALA	ALA	THR	THR	ASP	ASP
F1644	SER	ASN	ALA	THR	THR	—	GLY	N1102	D1020	—	LEU	LEU	LEU	GLN	GLN	ASP	ASP
F1645	PHE	THR	ALA	SER	LEU	—	ASN	N1103	W1021	T947	PRO	SER	SER	VAL	VAL	VAL	VAL
V1646	SER	PHE	ALA	LEU	SER	K1260	SER	D1103	—	T948	PRO	GLY	GLY	ASP	ASP	SER	SER
I1647	ILE	THR	ILE	GLY	MET	N1261	LYS	N1104	M1025	—	VAL	SER	SER	PHE	PHE	ALA	ALA
P1648	ILE	THR	ALA	GLY	VAL	—	LYS	Q1105	K1026	T951	VAL	ILE	ILE	ASP	ASP	ILE	ILE
P1649	VAL	ALA	GLY	VAL	THR	M1264	ASP	G1106	R1027	R952	THR	THR	THR	LYS	LYS	SER	SER
Y1650	VAL	ASP	ASP	ASN	ASN	Q1265	GLY	L1107	Y1028	Q953	GLU	GLU	GLU	ASP	ASP	ASP	ASP
N1651	THR	LYS	ASP	PRO	GLY	G1266	THR	T1108	S1029	V954	THR	THR	THR	LYS	LYS	LYS	LYS
L1652	LEU	ASP	THR	ASN	ASP	L1267	GLN	Y1109	—	—	ALA	ALA	ALA	VAL	VAL	GLN	GLN
S1653	LYS	VAL	ALA	ASN	ILE	Y1268	THR	—	W1031	T961	ALA	PHE	PHE	ASP	ASP	LEU	LEU
—	VAL	SER	THR	SER	PRO	I1269	GLU	G1112	A1032	K962	THR	ALA	ALA	LEU	LEU	LYS	LYS
—	SER	ILE	ASP	SER	THR	F1270	THR	—	G1033	K963	SER	ALA	ALA	THR	THR	ILE	ILE
D1657	SER	GLN	SER	ASN	ILE	A1271	D1183	Y1122	W1034	S965	SER	THR	THR	LEU	LEU	THR	THR
E1658	—	PRO	LEU	LYS	ASN	D1272	—	W1123	—	R964	CYS	TRP	TRP	HIS	HIS	ASP	ASP
R1659	PRO	SER	ASN	THR	LYS	—	Y1196	R1124	Y1038	T966	THR	ASN	ASN	ILE	ILE	ARG	ARG
W1660	ALA	SER	LEU	MET	THR	S1275	E1197	S1125	Y1039	L967	THR	SER	SER	VAL	VAL	THR	THR
F1661	PRO	THR	LYS	MET	LYS	—	L1198	V1126	Y1040	T968	ILE	THR	THR	ALA	ALA	LEU	LEU
—	SER	ASP	PRO	PHE	ALA	—	L1189	D1127	P1041	Q969	ASN	GLY	GLY	PRO	PRO	LEU	LEU
K1662	PHE	ASP	THR	THR	ALA	Q1282	K1199	—	E1042	Y970	THR	THR	THR	THR	THR	THR	THR
L1663	ASP	ASP	ASP	PRO	SER	S1283	L1200	—	—	—	—	—	—	—	—	—	—
Y1664	THR	THR	THR	THR	SER	N1284	A1201	S1129	—	—	—	—	—	—	—	—	—
I1665	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]




ALA	LEU	Q1599	Y1677	S1754	V1835	LEU	L1995	A2090	K2178	Q2264	Q2364	G2440
LEU	GLU	S1600	Q1680	S1755	D1835	ARG	L1996	G2091	I2179	F2265	S2365	L2441
ILE	I1601	R1602	L1681	M1758	D1838	GLN	L1996	S2094	E2183	Y2266	S2370	A2442
ASP	T1603	R1603	T1682	M1759	D1839	ILE	G2007	R2095	T2184	R2272	N2371	N2443
GLY	L1604	T1604	D1683	F1760	V1840	PRO	K2008	R2096	Y2185	C2273	N2372	E2446
SER	L1605	L1605	T1683	A1763	Q1841	THR	L2009	D2097	E2186	E2277	N2373	A2447
GLY	M1606	M1606	M1685	A1763	Q1842	PRO	P2010	S2098	R2187	Q2278	L2374	L2448
LEU	A1610	A1610	M1686	E1770	H1843	ALA	E2011	Y2099	R2188	Q2279	N2375	A2449
ASN	P1614	P1614	M1687	L1771	D1844	PRO	S2012	L2102	R2189	Y2280	A2376	V2450
PHE	A1615	A1615	T1688	F1772	P1845	LEU	F2013	Y2103	E2192	R2281	A2377	S2451
ILE	R1616	R1616	T1689	Y1773	M1846	SER	M2014	D2104	E2193	W2282	T2382	H2452
ASN	I1621	I1621	L1690	Y1774	H1847	LEU	S2015	E2105	I2194	E2283	T2383	G2453
SER	T1622	T1622	F1691	T1775	Y1848	ANG	L2016	E2106	I2194	E2284	T2384	M2454
ALA	L1623	L1623	I1692	P1776	K1849	SER	W2017	N2106	Q2195	L2284	K2385	G2458
ALA	S1626	S1626	M1777	M1777	T1852	SER	E2018	N2108	R2196	D2287	T2386	Q2459
THR	T1629	T1629	V1779	L1778	D1858	THR	F2019	N2109	E2197	S2288	L2387	F2460
PHE	Q1633	Q1633	D1702	Y1779	D1865	THR	P2020	A2110	N2198	A2289	S2390	Q2461
ALA	E1634	E1634	K1706	Q1787	D1866	ASP	E2021	E2111	A2199	R2290	V2391	F2464
GLU	P1635	P1635	Y1707	D1790	Y1868	ASP	L2022	A2114	E2200	F2291	S2392	N2465
ASP	Q1636	Q1636	M1708	M1795	E1872	F1948	E2024	E2114	A2201	L2292	S2392	D2466
GLY	L1637	L1637	T1710	M1795	G1864	L1949	N2025	E2114	E2202	L2293	K2397	G2467
ARG	G1638	G1638	F1711	Y1798	T1875	L1949	A2026	L2117	K2204	W2297	I2398	K2468
LYS	K1639	K1639	K1712	Y1798	T1875	P1950	R2027	R2118	Q2205	Y2301	R2399	P2471
LEU	Q1640	Q1640	K1713	W1800	E1878	Q1951	G2028	A2119	I2206	L2304	E2400	F2472
GLY	F1641	F1641	S1714	W1800	A1879	I1952	M2029	S2120	D2207	L2305	D2401	G2473
TYR	A1642	A1642	P1715	Y1805	K1880	M1953	E2029	A2121	A2208	T2306	Y2402	I2409
GLU	T1644	T1644	W1721	H1807	M1881	L1963	Q2047	Q2128	R2217	L2312	G2407	S2490
SER	S1645	S1645	G1722	H1808	W1882	L1963	A2054	Q2129	E2218	S2313	I2409	Q2497
PHE	V1646	V1646	P1723	G1809	Y1883	Q1965	E2054	P2142	E2219	L2314	R2410	M2500
SER	I1647	I1647	Q1810	G1809	H1883	R1966	N2058	N2143	A2220	E2318	E2411	K2501
ILE	P1648	P1648	V1726	Q1810	Q1885	V1967	Q2059	I2144	L2222	K2323	I2412	T2502
PRO	P1649	P1649	R1727	Y1814	K1893	L1970	L2070	W2154	Q2224	R2324	K2413	L2504
THR	M1651	M1651	V1733	Q1815	P1894	R1971	Q2071	G2155	K2224	K2324	V2417	L2509
LEU	L1652	L1652	T1734	M1816	P1897	H1972	D2072	A2156	S2236	R2327	T2418	R2512
LYS	S1653	S1653	I1735	M1816	L1898	N1973	K2073	E2157	A2239	L2329	L2419	T2513
VAL	D1657	D1657	M1736	R1819	S1899	L1974	T2074	E2159	E2243	V2331	P2420	I2515
SER	W1660	W1660	P1737	P1820	T1913	I1976	I2075	M2165	R2243	E2332	G2424	K2516
ALA	F1661	F1661	K1738	L1821	THR	L1976	E2077	E2166	K2244	R2333	P2425	T2514
ILE	K1662	K1662	S1739	L1822	THR	Q1979	E2077	E2166	F2245	T2334	Y2426	I2515
THR	L1663	L1663	I1740	E1823	GLN	P1980	L2078	F2167	L2250	L2337	V2429	K2516
LYS	Y1664	Y1664	L1741	T1825	ASN	L1981	D2079	S2168	Y2251	L2337	Q2430	T2516
VAL	H1587	H1587	F1744	S1826	ALA	Y1982	K2082	A2169	N2170	N2348	S2434	R2517
SER	K1666	K1666	W1827	W1827	HTS	L1983	V2084	N2171	W2253	N2348	Y2435	L2518
			S1746	W1827	ASP	Y1986	E2086	N2172	L2254	K2359	G2436	T2519
			V1747	D1830	SER	Y1986	E2086	N2172	L2254	L2360	D2437	I2520
			L1750	P1831	ALA	P1989	K2087	A2176	L2258	L2360	Y2435	T2521
			I1753	L1832	VAL	P1992	S2088	D2177	F2263	Q2363	A2438	L2522
				S1834	ALA		K2089	D2177	F2263	Q2363	A2439	L2523

• Molecule 1: TcdA1



MET	ASN	LEU	TYR	E125
GLU	GLU	TYR	GLU	L129
SER	ALA	ALA	ALA	Y136
VAL	VAL	ILE	ILE	Y137
LYS	LYS	LEU	LEU	L138
GLU	GLU	LYS	LYS	D139
ILE	ILE	ARG	ARG	T140
PRO	PRO	ALA	ALA	R141
ASP	ASP	ASN	ASN	R142
VAL	VAL	PRO	PRO	P143
LEU	LEU	GLN	GLN	D144
SER	SER	LEU	LEU	M148
GLN	GLN	GLN	GLN	A149
CYS	CYS	ASN	ASN	L150
THR	THR	ALA	ALA	S151
ASP	ASP	VAL	VAL	Q152
ILE	ILE	HIS	HIS	M155
ASN	ASN	LEU	LEU	D156
CYS	CYS	ALA	ALA	L159
LEU	LEU	LEU	LEU	S160
ALA	ALA	ILE	ILE	T161
THR	THR	LEU	LEU	L162
ASP	ASP	LEU	LEU	S163
ALA	ALA	LEU	LEU	L164
ILE	ILE	LEU	LEU	S165
GLY	GLY	G11	G11	M166
PHE	PHE	Y92	Y92	E167
ARG	ARG	N93	N93	L168
GLN	GLN	N94	N94	L169
GLY	GLY	Q95	Q95	L170
VAL	VAL	F96	F96	E171
SER	SER	S97	S97	S172
GLU	GLU	A100	A100	I173
HIS	HIS	Y103	Y103	Y182
SER	SER	V104	V104	T183
THR	THR	T2503	T2503	K184
GLU	GLU	A105	A105	V185
THR	THR	T108	T108	M186
HIS	HIS	V109	V109	E187
ASP	ASP	S110	S110	M188
LEU	LEU	S111	S111	L189
THR	THR	S114	S114	R2512
ASP	ASP	P115	P115	T2513
ALA	ALA	A116	A116	I2514
GLN	GLN	A117	A117	I2515
LYS	LYS	Y118	Y118	K2516
GLN	GLN	L119	L119	
LYS	LYS	T120	T120	
ASP	ASP	E121	E121	
ASN	ASN	L122	L122	
ARG	ARG	Y123	Y123	
		R124	R124	




V2429	Q2430	S2434	G2435	D2437	K2438	G2440	G2441	A2442	N2443	E2446	A2447	L2448	A2449	V2450	S2451	D2452	M2454	G2458	Q2459	F2460	F2464	L2465	L2466	G2467	K2468	P2471	F2472	F2473	G2474	L2475	T2483	S2490	Q2497	M2500	K2502	T2503	L2504	L2509	R2512	Y2513	T2514	L2515	K2516									
N2348	D2358	F2263	Q2264	F2265	Y2266	R2272	C2273	E2277	Q2278	Y2279	R2280	R2281	W2282	E2283	L2284	D2287	K2288	A2289	R2290	F2291	L2292	K2293	P2294	G2295	W2297	Y2301	L2305	E2308	L2309	L2310	M2311	L2312	S2313	L2314	E2318	K2323	R2324	R2327	A2328	L2329	E2330	V2331	L2423	G2424	P2425	Y2426						
N2170	V2171	N2172	N2173	A2176	D2177	K2178	L2179	E2183	T2184	Y2185	R2186	R2187	R2188	R2189	W2192	E2193	L2194	Q2195	R2196	N2197	N2198	A2199	E2200	A2201	E2202	K2204	Q2205	L2206	D2207	S2210	S2212	L2213	A2214	V2215	R2216	V2217	E2218	A2219	A2220	V2221	L2222	Q2223	K2224	S2236	A2239	L2243	R2244					
T2083	V2084	L2085	E2086	K2087	S2088	K2089	A2090	G2091	S2094	R2095	F2096	D2097	S2098	Y2099	L2102	Y2103	D2104	E2105	N2106	L2107	N2108	N2109	G2110	E2111	A2114	L2117	L2118	A2119	S2120	A2121	G2123	L2124	T2125	A2127	V2128	Q2129	P2142	N2143	I2144	W2154	G2155	A2156	L2157	A2158	E2159	M2165	E2166	F2167	S2168	A2169		
L1983	Y1986	P1989	P1992	L1995	L1996	G2007	K2008	P2010	E2011	S2012	F2013	M2014	S2015	W2016	W2017	R2018	F2019	P2020	H2021	P2022	L2023	E2024	N2025	A2026	R2027	G2028	M2029	F2036	T2039	L2044	Q2047	A2054	N2058	Q2059	L2070	Q2071	D2072	K2073	L2074	L2075	E2076	E2077	L2078	D2079	K2082							
D1830	F1831	L1832	D1833	S1834	V1835	D1836	P1837	D1838	A1839	V1840	A1841	H1842	H1843	D1844	M1845	H1846	H1847	Y1848	K1849	T1852	L1857	D1858	L1859	A1862	R1863	G1864	D1865	Y1868	E1872	T1875	E1878	A1879	M1880	M1881	W1882	Y1883	H1884	Q1885	L1889	K1893	P1894	P1897	L1898	S1899	I1913	THR	GLN					
ASN	ALA	ASP	HIS	SER	ALA	ILE	VAL	ALA	LEU	ARG	GLN	ASN	ILE	PRO	THR	PRO	ALA	ALA	PRO	LEU	SER	ALA	ASN	THR	LEU	THR	ASP	F1947	L1948	P1949	P1950	Q1951	I1952	N1953	E1954	M1957	W1960	Q1961	Q1965	R1966	V1967	L1970	R1971	H1972	N1973	L1974	S1975	L1976	Q1979	P1980	L1981	Y1982
V1747	L1750	I1753	S1755	M1758	D1759	F1760	A1763	E1770	L1771	F1772	Y1773	Y1774	T1775	P1776	M1777	L1778	V1779	R1782	L1783	Q1787	D1790	W1795	Y1798	W1799	W1800	Y1805	L1806	V1807	M1808	G1809	Q1810	Y1814	W1815	M1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826	W1827								
S1673	H1674	I1675	I1676	I1677	S1678	G1679	Q1680	L1681	T1682	D1683	T1684	N1685	I1686	I1687	I1688	L1689	L1690	F1691	I1692	D1696	VAL	PRO	LEU	ASN	D1702	K1706	E1707	P1708	M1709	F1710	K1711	K1712	K1713	S1714	P1715	W1721	G1722	P1723	V1726	R1727	V1733	T1734	I1735	M1736	P1737	K1738	S1739	L1740	I1741	F1744	E1745	S1746
Q1594	Y1595	M1596	Q1597	W1598	L1599	S1600	Y1601	R1602	T1603	GLY	L1605	M1606	A1610	V1614	A1615	R1616	D1622	T1623	I1624	L1625	S1626	T1629	E1633	H1634	P1635	Q1636	L1637	G1638	K1639	G1640	F1641	Y1642	A1643	T1644	F1645	V1646	H1647	P1648	Y1650	M1651	L1652	S1653	D1657	W1660	F1661	K1662	Y1664	I1665	K1666			
ASN	TYR	GLN	PHE	ASN	ALA	LEU	GLU	ILE	ASP	GLY	SER	GLY	LEU	ASN	PHE	ILE	ASN	ASP	VAL	THR	ALA	PHE	THR	PHE	ALA	LYS	GLY	ASP	ARG	LYS	ALA	LEU	THR	ASN	GLN	ALA	ASP	TYR	ALA	THR	ASP	SER	SER	LEU	ASN	PRO	PHE	ASP	GLU	MET		
GLN	TYR	SER	GLY	ASN	THR	SER	GLY	LEU	ASN	GLN	GLY	ARG	LEU	VAL	SER	PHE	HIS	ARG	ASP	THR	THR	LYS	VAL	LYS	GLU	TRP	ILE	PRO	GLY	ALA	LYS	ALA	LEU	THR	ASN	GLN	ALA	ASP	TYR	ALA	THR	ASP	SER	SER	LEU	ASN	PRO	PHE	ASP	LEU	LYS	

4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C5	Depositor
Number of particles used	13000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	15.4	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	59000	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 2$	RMSZ	# $ Z > 2$
1	A	0.66	1/11313 (0.0%)	0.65	4/15367 (0.0%)
1	B	0.66	1/11313 (0.0%)	0.65	3/15367 (0.0%)
1	C	0.66	1/11313 (0.0%)	0.65	5/15367 (0.0%)
1	D	0.66	1/11313 (0.0%)	0.65	4/15367 (0.0%)
1	E	0.66	1/11313 (0.0%)	0.65	3/15367 (0.0%)
All	All	0.66	5/56565 (0.0%)	0.65	19/76835 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
All	All	0	5

All (5) bond length outliers are listed below:

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

All (19) bond angle outliers are listed below:

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

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

There are no chirality outliers.

All (5) planarity outliers are listed below:

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

5.2 Too-close contacts ⓘ

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

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

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

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 38.

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:93:ASN:HD21	1:C:1894:PRO:HB3	1.03	1.13
1:B:2460:PHE:CE2	1:C:2330:GLU:CG	2.32	1.13
1:E:2103:TYR:CD2	1:E:2196:ARG:NH2	2.15	1.13
1:A:2117:LEU:HD13	1:E:2176:ALA:N	1.63	1.12
1:B:2169:ALA:HB1	1:C:2124:LEU:HD22	1.29	1.12
1:E:93:ASN:ND2	1:E:1894:PRO:HB3	1.65	1.12
1:C:93:ASN:ND2	1:C:1894:PRO:HB3	1.65	1.11
1:B:93:ASN:ND2	1:B:1894:PRO:HB3	1.65	1.11
1:C:2258:LEU:HB2	1:D:2305:LEU:HD21	1.32	1.11
1:A:93:ASN:ND2	1:A:1894:PRO:HB3	1.65	1.11
1:C:1272:ASP:OD1	1:D:1623:THR:HA	0.95	1.11
1:C:2036:PHE:CE1	1:D:2308:GLU:HG2	1.84	1.11
1:D:93:ASN:ND2	1:D:1894:PRO:HB3	1.65	1.11
1:D:1270:PHE:N	1:E:1808:HIS:CE1	2.11	1.11
1:A:1270:PHE:N	1:B:1808:HIS:CE1	2.12	1.10
1:D:2258:LEU:HB2	1:E:2305:LEU:HD21	1.32	1.10
1:A:2169:ALA:HB1	1:B:2124:LEU:HD22	1.27	1.10
1:A:2169:ALA:CB	1:B:2124:LEU:HD13	1.81	1.10
1:A:2460:PHE:CE2	1:B:2330:GLU:CG	2.33	1.10
1:A:2305:LEU:HD21	1:E:2258:LEU:HB2	1.32	1.10
1:A:2036:PHE:CE1	1:B:2308:GLU:HG2	1.87	1.10
1:B:2258:LEU:HB2	1:C:2305:LEU:HD21	1.34	1.10
1:A:2330:GLU:CG	1:E:2460:PHE:CE2	2.33	1.09
1:D:2036:PHE:CE1	1:E:2308:GLU:HG2	1.86	1.09
1:A:2258:LEU:HB2	1:B:2305:LEU:HD21	1.33	1.09
1:B:2179:ILE:CG2	1:C:2114:ALA:HB2	1.82	1.09
1:D:2460:PHE:CE2	1:E:2330:GLU:CG	2.36	1.09
1:B:1270:PHE:N	1:C:1808:HIS:CE1	2.12	1.09
1:B:2036:PHE:CE1	1:C:2308:GLU:HG2	1.88	1.09
1:C:2179:ILE:CG2	1:D:2114:ALA:HB2	1.83	1.08
1:D:2179:ILE:CG2	1:E:2114:ALA:HB2	1.82	1.08
1:A:2124:LEU:HD13	1:E:2169:ALA:CB	1.83	1.08
1:A:2169:ALA:N	1:B:2124:LEU:CD1	2.14	1.08
1:A:2308:GLU:HG2	1:E:2036:PHE:CE1	1.87	1.08
1:A:2179:ILE:CG2	1:B:2114:ALA:HB2	1.84	1.08
1:B:2172:MET:O	1:C:2117:LEU:HD21	1.54	1.07
1:A:2176:ALA:HB3	1:B:2117:LEU:CD2	1.72	1.07
1:A:1808:HIS:CE1	1:E:1270:PHE:N	2.12	1.07
1:C:2176:ALA:HB3	1:D:2117:LEU:CD2	1.74	1.07
1:C:2460:PHE:CE2	1:D:2330:GLU:CG	2.36	1.07
1:A:2121:ALA:N	1:E:2172:MET:HE3	1.69	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2114:ALA:HB2	1:E:2179:ILE:CG2	1.85	1.07
1:A:2183:GLU:CG	1:B:2111:GLU:HG3	1.84	1.07
1:A:2176:ALA:HB2	1:B:2117:LEU:CB	1.82	1.07
1:D:2176:ALA:HB3	1:E:2117:LEU:CD2	1.75	1.07
1:C:2169:ALA:HB1	1:D:2124:LEU:HD22	1.28	1.07
1:B:1272:ASP:OD2	1:C:1626:SER:HB3	1.55	1.07
1:C:2169:ALA:N	1:D:2124:LEU:CD1	2.17	1.07
1:A:2124:LEU:HD22	1:E:2169:ALA:HB1	1.31	1.07
1:A:1626:SER:HB3	1:E:1272:ASP:OD2	1.53	1.06
1:B:160:SER:OG	1:B:982:LYS:CE	2.03	1.06
1:D:2169:ALA:CB	1:E:2124:LEU:HD13	1.84	1.06
1:D:2172:MET:O	1:E:2117:LEU:HD21	1.54	1.06
1:C:1272:ASP:OD2	1:D:1626:SER:HB3	1.54	1.06
1:D:160:SER:OG	1:D:982:LYS:CE	2.03	1.06
1:E:160:SER:OG	1:E:982:LYS:CE	2.03	1.06
1:A:1622:ASP:O	1:E:1272:ASP:OD1	1.71	1.06
1:A:2327:ARG:HH12	1:E:2468:LYS:HD2	1.19	1.06
1:D:2176:ALA:HB2	1:E:2117:LEU:CB	1.85	1.06
1:D:2183:GLU:CG	1:E:2111:GLU:HG3	1.85	1.06
1:D:2169:ALA:HB1	1:E:2124:LEU:HD22	1.28	1.06
1:A:160:SER:OG	1:A:982:LYS:CE	2.03	1.05
1:B:2183:GLU:CG	1:C:2111:GLU:HG3	1.86	1.05
1:C:2176:ALA:HB2	1:D:2117:LEU:CB	1.85	1.05
1:A:1272:ASP:OD2	1:B:1626:SER:HB3	1.55	1.05
1:C:160:SER:OG	1:C:982:LYS:CE	2.03	1.05
1:A:2124:LEU:HD13	1:E:2169:ALA:HA	1.10	1.05
1:B:2169:ALA:HA	1:C:2124:LEU:HD13	1.08	1.05
1:C:2183:GLU:CG	1:D:2111:GLU:HG3	1.86	1.05
1:B:2460:PHE:CD2	1:C:2330:GLU:HG2	1.91	1.05
1:D:2169:ALA:N	1:E:2124:LEU:CD1	2.16	1.05
1:A:2172:MET:O	1:B:2117:LEU:HD21	1.56	1.05
1:A:2117:LEU:HD21	1:E:2172:MET:O	1.57	1.04
1:B:2176:ALA:HB2	1:C:2117:LEU:CB	1.86	1.04
1:C:1242:GLU:CB	1:D:1806:ILE:HG12	1.86	1.04
1:D:1272:ASP:OD2	1:E:1626:SER:HB3	1.53	1.04
1:A:2111:GLU:HG3	1:E:2183:GLU:CG	1.88	1.04
1:B:2169:ALA:N	1:C:2124:LEU:CD1	2.16	1.04
1:A:2117:LEU:HG	1:E:2172:MET:HG2	1.40	1.04
1:B:1660:TRP:CD1	1:B:1661:PHE:N	2.26	1.04
1:C:1272:ASP:OD1	1:D:1622:ASP:O	1.75	1.04
1:A:2468:LYS:HD2	1:B:2327:ARG:HH12	1.22	1.04

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2308:GLU:CG	1:E:2036:PHE:HE1	1.82	0.91
1:B:1660:TRP:O	1:B:1712:LYS:CG	2.19	0.91
1:B:2183:GLU:OE2	1:C:2111:GLU:OE2	1.89	0.90
1:D:2183:GLU:OE2	1:E:2111:GLU:OE2	1.88	0.90
1:D:2172:MET:O	1:E:2117:LEU:CD1	2.19	0.90
1:B:2176:ALA:HB2	1:C:2117:LEU:HB3	1.49	0.90
1:B:2172:MET:O	1:C:2117:LEU:CD1	2.18	0.90
1:E:1660:TRP:O	1:E:1712:LYS:CG	2.19	0.90
1:B:1660:TRP:CE3	1:B:1680:GLN:CB	2.53	0.90
1:B:2036:PHE:CE1	1:C:2308:GLU:CG	2.53	0.90
1:D:1660:TRP:CE3	1:D:1680:GLN:CB	2.53	0.90
1:A:1270:PHE:N	1:B:1808:HIS:HE1	1.68	0.90
1:D:2013:PHE:HZ	1:E:2323:LYS:HG2	1.35	0.90
1:A:2098:SER:OG	1:E:2194:ILE:HD11	1.72	0.90
1:B:2013:PHE:HZ	1:C:2323:LYS:HG2	1.37	0.90
1:C:1029:SER:CB	1:D:1872:GLU:OE2	2.20	0.89
1:C:2172:MET:O	1:D:2117:LEU:CD1	2.19	0.89
1:B:2468:LYS:HD2	1:C:2327:ARG:NH1	1.86	0.89
1:A:2308:GLU:CG	1:E:2036:PHE:CE1	2.53	0.89
1:A:2327:ARG:NH1	1:E:2468:LYS:HD2	1.87	0.89
1:A:1808:HIS:HE1	1:E:1270:PHE:N	1.69	0.89
1:D:1029:SER:CB	1:E:1872:GLU:OE2	2.20	0.89
1:A:2334:THR:HG21	1:E:2426:TYR:HB3	1.51	0.89
1:C:1270:PHE:N	1:D:1808:HIS:HE1	1.66	0.89
1:A:1660:TRP:O	1:A:1712:LYS:CG	2.19	0.89
1:A:2124:LEU:CD2	1:E:2169:ALA:HB3	1.99	0.89
1:D:2194:ILE:HD11	1:E:2098:SER:OG	1.72	0.89
1:D:2183:GLU:HG3	1:E:2111:GLU:HG3	1.47	0.89
1:A:2323:LYS:HG2	1:E:2013:PHE:HZ	1.37	0.89
1:A:2169:ALA:HB2	1:B:2124:LEU:HD21	1.46	0.89
1:C:2103:TYR:HD2	1:C:2196:ARG:CZ	1.83	0.89
1:A:2124:LEU:HD21	1:E:2169:ALA:HB2	1.47	0.89
1:C:1244:THR:HG22	1:D:1808:HIS:HA	1.55	0.88
1:C:2183:GLU:OE2	1:D:2111:GLU:OE2	1.90	0.88
1:C:2194:ILE:HD11	1:D:2098:SER:OG	1.73	0.88
1:D:1270:PHE:N	1:E:1808:HIS:HE1	1.68	0.88
1:B:2103:TYR:HD2	1:B:2196:ARG:CZ	1.83	0.88
1:D:2103:TYR:HD2	1:D:2196:ARG:CZ	1.83	0.88
1:E:2103:TYR:HD2	1:E:2196:ARG:CZ	1.83	0.88
1:C:2382:ASP:OD2	1:D:2404:ALA:N	2.07	0.87
1:A:2111:GLU:OE2	1:E:2183:GLU:OE2	1.91	0.87

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2117:LEU:CD1	1:E:2176:ALA:H	1.91	0.80
1:C:1029:SER:HB3	1:D:1872:GLU:OE2	1.81	0.80
1:C:976:GLN:HB2	1:D:1971:ARG:NH2	1.97	0.80
1:D:2176:ALA:HB2	1:E:2117:LEU:CD1	2.11	0.80
1:C:2165:MET:SD	1:D:2124:LEU:HG	2.21	0.80
1:D:1660:TRP:HD1	1:D:1661:PHE:O	1.62	0.80
1:B:2027:ARG:NH2	1:B:2318:GLU:OE1	2.15	0.80
1:C:2027:ARG:NH2	1:C:2318:GLU:OE1	2.15	0.80
1:C:2169:ALA:HB2	1:D:2124:LEU:HD21	1.45	0.79
1:E:1092:LYS:HA	1:E:1594:GLN:HE22	1.44	0.79
1:A:2027:ARG:NH2	1:A:2318:GLU:OE1	2.15	0.79
1:B:2430:GLN:OE1	1:B:2497:GLN:NE2	2.16	0.79
1:A:2179:ILE:HG21	1:B:2114:ALA:N	1.98	0.79
1:C:1660:TRP:HD1	1:C:1661:PHE:O	1.62	0.79
1:D:1029:SER:HB3	1:E:1872:GLU:OE2	1.81	0.79
1:D:2430:GLN:OE1	1:D:2497:GLN:NE2	2.16	0.79
1:A:1082:LEU:HB3	1:A:1614:VAL:HG22	1.64	0.79
1:A:2176:ALA:HB3	1:B:2117:LEU:HD22	0.79	0.79
1:D:976:GLN:HB2	1:E:1971:ARG:NH2	1.97	0.79
1:A:2318:GLU:CG	1:E:2272:ARG:HH21	1.93	0.79
1:B:2176:ALA:HB2	1:C:2117:LEU:CD1	2.12	0.79
1:A:1660:TRP:O	1:A:1712:LYS:HG3	1.81	0.79
1:B:1082:LEU:HB3	1:B:1614:VAL:HG22	1.64	0.79
1:B:1660:TRP:HD1	1:B:1661:PHE:O	1.62	0.79
1:B:2172:MET:CG	1:C:2117:LEU:HG	2.13	0.79
1:A:2403:PRO:HB2	1:E:2382:ASP:OD2	1.78	0.79
1:A:2173:ASN:HA	1:B:2117:LEU:HD21	1.64	0.79
1:A:2176:ALA:CB	1:B:2117:LEU:HB3	2.12	0.79
1:E:2027:ARG:NH2	1:E:2318:GLU:OE1	2.15	0.79
1:B:976:GLN:HB2	1:C:1971:ARG:NH2	1.96	0.79
1:C:2258:LEU:HB2	1:D:2305:LEU:CD2	2.13	0.79
1:E:1584:LEU:HB3	1:E:1598:TRP:HB3	1.62	0.79
1:B:2272:ARG:HH21	1:C:2318:GLU:CG	1.94	0.79
1:C:2382:ASP:OD2	1:D:2403:PRO:HB2	1.79	0.79
1:B:1660:TRP:O	1:B:1712:LYS:HG3	1.81	0.79
1:D:2027:ARG:NH2	1:D:2318:GLU:OE1	2.15	0.79
1:E:1660:TRP:O	1:E:1712:LYS:HG3	1.81	0.78
1:E:2430:GLN:OE1	1:E:2497:GLN:NE2	2.15	0.78
1:A:2430:GLN:OE1	1:A:2497:GLN:NE2	2.15	0.78
1:B:2278:GLN:OE1	1:B:2281:ARG:NH2	2.17	0.78
1:C:1082:LEU:HB3	1:C:1614:VAL:HG22	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2117:LEU:HG	1:E:2172:MET:CG	2.13	0.78
1:B:1660:TRP:O	1:B:1712:LYS:HG2	1.84	0.78
1:E:2239:ALA:HB1	1:E:2243:ARG:HH12	1.48	0.78
1:E:2278:GLN:OE1	1:E:2281:ARG:NH2	2.17	0.78
1:D:1082:LEU:HB3	1:D:1614:VAL:HG22	1.64	0.78
1:C:2430:GLN:OE1	1:C:2497:GLN:NE2	2.16	0.78
1:A:2205:GLN:HA	1:B:2087:LYS:HG2	1.66	0.78
1:C:2437:ASP:OD1	1:C:2438:LYS:N	2.16	0.78
1:E:1660:TRP:O	1:E:1712:LYS:HG2	1.84	0.78
1:A:1971:ARG:NH2	1:E:976:GLN:HB2	1.97	0.78
1:A:2165:MET:SD	1:B:2124:LEU:HG	2.24	0.78
1:C:100:ALA:HB1	1:C:1950:PRO:HG3	1.67	0.78
1:C:2189:ARG:HG3	1:C:2189:ARG:HH11	1.50	0.78
1:A:2189:ARG:HG3	1:A:2189:ARG:HH11	1.49	0.77
1:B:100:ALA:HB1	1:B:1950:PRO:HG3	1.67	0.77
1:C:2169:ALA:HA	1:D:2124:LEU:CD1	1.95	0.77
1:D:2172:MET:CG	1:E:2117:LEU:HG	2.14	0.77
1:A:1809:GLY:O	1:A:1810:GLN:O	2.03	0.77
1:A:2239:ALA:HB1	1:A:2243:ARG:HH12	1.48	0.77
1:E:1103:ASN:ND2	1:E:1598:TRP:NE1	2.32	0.77
1:C:2239:ALA:HB1	1:C:2243:ARG:HH12	1.48	0.77
1:D:1272:ASP:OD2	1:E:1626:SER:CB	2.31	0.77
1:D:1660:TRP:O	1:D:1712:LYS:HG2	1.84	0.77
1:E:1082:LEU:HB3	1:E:1614:VAL:HG22	1.64	0.77
1:C:1103:ASN:ND2	1:C:1598:TRP:NE1	2.32	0.77
1:D:2239:ALA:HB1	1:D:2243:ARG:HH12	1.48	0.77
1:E:2437:ASP:OD1	1:E:2438:LYS:N	2.16	0.77
1:A:1270:PHE:H	1:B:1808:HIS:CE1	1.96	0.77
1:A:2278:GLN:OE1	1:A:2281:ARG:NH2	2.17	0.77
1:B:2239:ALA:HB1	1:B:2243:ARG:HH12	1.48	0.77
1:C:2278:GLN:OE1	1:C:2281:ARG:NH2	2.17	0.77
1:A:100:ALA:HB1	1:A:1950:PRO:HG3	1.67	0.77
1:A:1103:ASN:ND2	1:A:1598:TRP:NE1	2.32	0.77
1:B:1103:ASN:ND2	1:B:1598:TRP:NE1	2.32	0.77
1:B:1809:GLY:O	1:B:1810:GLN:O	2.03	0.77
1:C:2176:ALA:CB	1:D:2117:LEU:HB3	2.15	0.77
1:A:2117:LEU:HD21	1:E:2173:ASN:HA	1.66	0.77
1:D:2278:GLN:OE1	1:D:2281:ARG:NH2	2.17	0.77
1:D:2179:ILE:HG21	1:E:2114:ALA:N	1.98	0.77
1:D:2176:ALA:CB	1:E:2117:LEU:HB3	2.15	0.77
1:A:1872:GLU:OE2	1:E:1029:SER:HB3	1.85	0.77

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

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

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

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

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

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1787:GLN:HB2	1:E:2011:GLU:CD	2.17	0.65
1:D:2176:ALA:CB	1:E:2117:LEU:CG	2.52	0.65
1:A:1880:LYS:NZ	1:E:974:ASP:OD2	2.20	0.65
1:C:184:LYS:O	1:C:188:MET:CB	2.44	0.65
1:D:117:ALA:O	1:D:120:THR:N	2.28	0.65
1:D:1787:GLN:HB2	1:D:2011:GLU:CD	2.17	0.65
1:E:1218:ASN:O	1:E:1222:SER:HB2	1.96	0.65
1:A:1664:TYR:CE2	1:A:1675:ILE:HG13	2.31	0.65
1:D:1264:MET:SD	1:D:1287:ARG:HG2	2.36	0.65
1:B:998:ASN:CB	1:C:1881:MET:SD	2.82	0.65
1:D:1604:ARG:HB2	1:D:1637:LEU:HD21	1.79	0.65
1:D:2413:LYS:N	1:D:2512:ARG:O	2.26	0.65
1:E:1737:PRO:HB3	1:E:1741:LEU:HD13	1.77	0.65
1:A:1139:ASN:HB2	1:A:1842:GLN:OE1	1.96	0.65
1:C:1032:ALA:HB3	1:D:1989:PRO:HB3	1.79	0.65
1:D:1737:PRO:HB3	1:D:1741:LEU:HD13	1.77	0.65
1:E:1790:ASP:OD1	1:E:1863:ARG:NH2	2.26	0.65
1:E:1868:TYR:HE1	1:E:1970:LEU:HG	1.60	0.65
1:E:93:ASN:CG	1:E:1894:PRO:HB3	2.15	0.65
1:A:1657:ASP:HA	1:A:1713:LYS:HD2	1.77	0.65
1:A:2222:LEU:HD11	1:B:2073:LYS:CE	2.27	0.65
1:A:2165:MET:O	1:B:2124:LEU:HD11	1.97	0.65
1:C:1026:LYS:HZ3	1:D:1878:GLU:CD	2.00	0.65
1:C:1787:GLN:HB2	1:C:2011:GLU:CD	2.17	0.65
1:D:2172:MET:CE	1:E:2121:ALA:HA	2.27	0.65
1:A:1806:ILE:CG2	1:E:1242:GLU:CB	2.74	0.65
1:B:1264:MET:SD	1:B:1287:ARG:HG2	2.36	0.65
1:B:2176:ALA:H	1:C:2117:LEU:HD11	1.62	0.65
1:C:1044:TYR:CZ	1:D:1992:PRO:CB	2.80	0.65
1:C:974:ASP:OD2	1:D:1880:LYS:NZ	2.23	0.65
1:D:1044:TYR:CZ	1:E:1992:PRO:HB2	2.31	0.65
1:D:1168:TYR:CD2	1:D:1202:HIS:HB3	2.31	0.65
1:D:1664:TYR:CE2	1:D:1675:ILE:HG13	2.31	0.65
1:D:981:ILE:HD11	1:E:1973:ASN:HB2	1.78	0.65
1:A:1122:TYR:HD1	1:A:1146:LYS:HA	1.62	0.65
1:A:1787:GLN:HB2	1:A:2011:GLU:CD	2.17	0.65
1:B:1283:SER:O	1:B:1287:ARG:HG3	1.96	0.65
1:B:2176:ALA:CB	1:C:2117:LEU:HD13	2.26	0.65
1:D:1242:GLU:CB	1:E:1806:ILE:CG2	2.75	0.65
1:E:1168:TYR:CD2	1:E:1202:HIS:HB3	2.31	0.65
1:E:1264:MET:SD	1:E:1287:ARG:HG2	2.36	0.65

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1153:PRO:HB3	1:A:1171:TRP:HB2	1.82	0.61
1:A:1992:PRO:CB	1:E:1044:TYR:CZ	2.83	0.61
1:C:1168:TYR:CE2	1:C:1202:HIS:HB3	2.34	0.61
1:C:1818:VAL:HG12	1:C:1820:PRO:HD2	1.82	0.61
1:D:1017:PHE:O	1:D:1025:ASN:ND2	2.33	0.61
1:D:1818:VAL:HG12	1:D:1820:PRO:HD2	1.82	0.61
1:B:2169:ALA:CB	1:C:2124:LEU:HD11	2.27	0.61
1:D:1172:LEU:HA	1:D:1198:LEU:HA	1.82	0.61
1:D:1858:ASP:O	1:D:1862:ALA:HB2	1.99	0.61
1:E:1172:LEU:HA	1:E:1198:LEU:HA	1.82	0.61
1:A:1774:TYR:OH	1:A:1848:TYR:OH	2.01	0.61
1:A:2106:ASN:O	1:A:2107:ILE:CG1	2.47	0.61
1:A:2212:SER:O	1:A:2215:VAL:N	2.33	0.61
1:C:1170:LEU:HB3	1:C:1200:LEU:HD13	1.83	0.61
1:C:2413:LYS:N	1:C:2512:ARG:O	2.26	0.61
1:A:2117:LEU:HD11	1:E:2176:ALA:H	1.62	0.61
1:A:1017:PHE:O	1:A:1025:ASN:ND2	2.33	0.61
1:A:1170:LEU:HB3	1:A:1200:LEU:HD13	1.83	0.61
1:A:1832:LEU:HG	1:A:1833:ASP:N	2.16	0.61
1:A:2124:LEU:HD21	1:E:2169:ALA:HB3	1.67	0.61
1:B:1295:ASP:OD1	1:B:1296:THR:N	2.28	0.61
1:C:2212:SER:O	1:C:2215:VAL:N	2.33	0.61
1:D:1832:LEU:HG	1:D:1833:ASP:N	2.16	0.61
1:C:1026:LYS:NZ	1:D:1878:GLU:OE2	2.33	0.61
1:E:1818:VAL:HG12	1:E:1820:PRO:HD2	1.82	0.61
1:A:1293:GLN:NE2	1:A:1304:ASN:OD1	2.34	0.61
1:B:1172:LEU:HA	1:B:1198:LEU:HA	1.82	0.61
1:C:2201:ALA:HB1	1:D:2091:GLY:HA3	1.83	0.61
1:D:2212:SER:O	1:D:2215:VAL:N	2.34	0.61
1:E:1818:VAL:HB	1:E:1821:LEU:HD12	1.83	0.61
1:B:1293:GLN:NE2	1:B:1304:ASN:OD1	2.34	0.61
1:B:2201:ALA:HB1	1:C:2091:GLY:HA3	1.83	0.61
1:D:1170:LEU:HB3	1:D:1200:LEU:HD13	1.83	0.61
1:E:2106:ASN:O	1:E:2107:ILE:CG1	2.47	0.61
1:B:1818:VAL:HB	1:B:1821:LEU:HD12	1.83	0.61
1:B:2165:MET:HG2	1:C:2127:ALA:HB3	1.83	0.61
1:B:2176:ALA:CB	1:C:2117:LEU:CD1	2.78	0.61
1:A:2460:PHE:CZ	1:B:2330:GLU:HB3	2.35	0.61
1:C:1172:LEU:HA	1:C:1198:LEU:HA	1.82	0.61
1:D:1153:PRO:HB3	1:D:1171:TRP:HB2	1.82	0.61
1:D:2447:ALA:HB3	1:E:2329:LEU:CD2	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1170:LEU:HB3	1:E:1200:LEU:HD13	1.83	0.61
1:A:2073:LYS:CE	1:E:2222:LEU:HD11	2.31	0.61
1:A:2189:ARG:HH11	1:A:2189:ARG:CG	2.13	0.61
1:A:2330:GLU:HB3	1:E:2460:PHE:CZ	2.34	0.61
1:D:1787:GLN:HB2	1:D:2011:GLU:OE1	2.01	0.61
1:E:1017:PHE:O	1:E:1025:ASN:ND2	2.33	0.61
1:E:1872:GLU:O	1:E:1875:THR:OG1	2.15	0.61
1:B:1168:TYR:HB3	1:B:1200:LEU:HD11	1.83	0.61
1:C:1832:LEU:HG	1:C:1833:ASP:N	2.16	0.61
1:C:2183:GLU:HG3	1:D:2111:GLU:HG2	1.80	0.61
1:E:2212:SER:O	1:E:2215:VAL:N	2.33	0.61
1:B:1170:LEU:HB3	1:B:1200:LEU:HD13	1.83	0.61
1:C:1097:TYR:HD1	1:C:1303:ASN:HB2	1.66	0.61
1:C:1168:TYR:HB3	1:C:1200:LEU:HD11	1.83	0.61
1:C:1293:GLN:NE2	1:C:1304:ASN:OD1	2.34	0.61
1:B:1044:TYR:CZ	1:C:1992:PRO:CB	2.84	0.61
1:D:2047:GLN:NE2	1:D:2252:ASN:OD1	2.34	0.61
1:A:2169:ALA:CB	1:B:2124:LEU:HD11	2.24	0.60
1:B:1819:ARG:O	1:B:1822:LEU:N	2.34	0.60
1:A:1002:GLU:CG	1:B:1882:TRP:CH2	2.66	0.60
1:D:117:ALA:HA	1:D:1948:PHE:HE2	1.66	0.60
1:D:1293:GLN:NE2	1:D:1304:ASN:OD1	2.34	0.60
1:A:2121:ALA:HA	1:E:2172:MET:CE	2.31	0.60
1:A:1641:PHE:N	1:A:1692:ILE:O	2.28	0.60
1:A:1787:GLN:HB2	1:A:2011:GLU:OE1	2.01	0.60
1:A:1818:VAL:HG12	1:A:1820:PRO:HD2	1.82	0.60
1:B:1660:TRP:CZ2	1:B:1680:GLN:OE1	2.55	0.60
1:B:1832:LEU:HG	1:B:1833:ASP:N	2.16	0.60
1:D:1168:TYR:HB3	1:D:1200:LEU:HD11	1.83	0.60
1:D:1819:ARG:O	1:D:1822:LEU:N	2.34	0.60
1:E:169:LEU:O	1:E:173:ILE:HG12	2.02	0.60
1:A:1622:ASP:O	1:E:1272:ASP:CG	2.38	0.60
1:B:2212:SER:O	1:B:2215:VAL:N	2.34	0.60
1:B:974:ASP:OD2	1:C:1880:LYS:NZ	2.22	0.60
1:B:115:PRO:HG2	1:C:1986:TYR:CD1	2.36	0.60
1:B:2222:LEU:HD11	1:C:2073:LYS:CE	2.30	0.60
1:C:2397:LYS:O	1:C:2400:GLU:HG2	2.02	0.60
1:E:1832:LEU:HG	1:E:1833:ASP:N	2.16	0.60
1:E:2047:GLN:NE2	1:E:2252:ASN:OD1	2.34	0.60
1:A:2173:ASN:CA	1:B:2117:LEU:HD21	2.31	0.60
1:E:1097:TYR:HD1	1:E:1303:ASN:HB2	1.66	0.60

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2501:LEU:HD23	1:B:2504:LEU:HD21	1.85	0.59
1:C:1295:ASP:HB2	1:C:1301:ARG:HG3	1.84	0.59
1:C:1680:GLN:HG2	1:C:1681:LEU:O	2.03	0.59
1:A:1878:GLU:OE2	1:E:1026:LYS:NZ	2.35	0.59
1:B:2154:TRP:O	1:B:2158:ALA:CB	2.51	0.59
1:C:2154:TRP:O	1:C:2158:ALA:CB	2.51	0.59
1:D:1204:ARG:NH2	1:D:1210:ASN:HD21	2.00	0.59
1:D:1680:GLN:HG2	1:D:1681:LEU:O	2.03	0.59
1:E:1261:ASN:H	1:E:1287:ARG:NH1	2.01	0.59
1:E:1660:TRP:CZ2	1:E:1680:GLN:OE1	2.55	0.59
1:A:1680:GLN:HG2	1:A:1681:LEU:O	2.03	0.59
1:A:2047:GLN:NE2	1:A:2252:ASN:OD1	2.34	0.59
1:B:1153:PRO:HB3	1:B:1171:TRP:HB2	1.82	0.59
1:B:2330:GLU:HG3	1:B:2514:THR:HG22	1.84	0.59
1:B:2430:GLN:H	1:B:2497:GLN:HE22	1.50	0.59
1:D:1261:ASN:H	1:D:1287:ARG:NH1	2.01	0.59
1:D:2154:TRP:O	1:D:2158:ALA:CB	2.51	0.59
1:E:2154:TRP:O	1:E:2158:ALA:CB	2.51	0.59
1:A:2187:ARG:CZ	1:B:2108:ASN:HD21	2.16	0.59
1:C:1660:TRP:CG	1:C:1680:GLN:HA	2.38	0.59
1:B:2447:ALA:HB3	1:C:2329:LEU:CD2	2.32	0.59
1:C:2330:GLU:HG3	1:C:2514:THR:HG22	1.84	0.59
1:C:2501:LEU:HD23	1:C:2504:LEU:HD21	1.85	0.59
1:D:1218:ASN:O	1:D:1222:SER:CB	2.51	0.59
1:B:1680:GLN:HG2	1:B:1681:LEU:O	2.03	0.59
1:B:2208:ALA:HB1	1:C:2084:VAL:CG2	2.31	0.59
1:A:2461:GLN:HE21	1:B:2465:ASN:ND2	2.01	0.59
1:C:2284:LEU:HD21	1:C:2324:ARG:HB2	1.85	0.59
1:C:2460:PHE:CZ	1:D:2330:GLU:HB3	2.38	0.59
1:E:1819:ARG:O	1:E:1822:LEU:N	2.34	0.59
1:A:2154:TRP:O	1:A:2158:ALA:CB	2.51	0.58
1:B:1093:VAL:HG12	1:B:1586:LEU:HD21	1.86	0.58
1:C:1605:LEU:HA	1:C:1763:ALA:HB3	1.84	0.58
1:D:1605:LEU:HA	1:D:1763:ALA:HB3	1.84	0.58
1:D:1633:GLN:HB3	1:D:1755:SER:HB2	1.85	0.58
1:D:2430:GLN:H	1:D:2497:GLN:HE22	1.50	0.58
1:E:1633:GLN:HB3	1:E:1755:SER:HB2	1.85	0.58
1:D:2179:ILE:HB	1:E:2114:ALA:HB2	1.85	0.58
1:A:2124:LEU:HD11	1:E:2169:ALA:CB	2.26	0.58
1:A:2330:GLU:HG3	1:A:2514:THR:HG22	1.84	0.58
1:B:1872:GLU:O	1:B:1875:THR:OG1	2.15	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1633:GLN:HB3	1:C:1755:SER:HB2	1.85	0.58
1:C:2013:PHE:HZ	1:D:2323:LYS:CG	2.13	0.58
1:C:2194:ILE:HG21	1:D:2099:TYR:HH	1.65	0.58
1:E:1302:VAL:HG12	1:E:1583:ALA:HB1	1.84	0.58
1:A:2114:ALA:CB	1:E:2179:ILE:CG2	2.71	0.58
1:A:2329:LEU:CD2	1:E:2447:ALA:HB3	2.33	0.58
1:E:2430:GLN:H	1:E:2497:GLN:HE22	1.50	0.58
1:A:2222:LEU:HD12	1:B:2073:LYS:CD	2.29	0.58
1:D:1660:TRP:CG	1:D:1680:GLN:HA	2.38	0.58
1:D:2012:SER:OG	1:D:2443:ASN:OD1	2.15	0.58
1:E:1865:ASP:O	1:E:1868:TYR:N	2.37	0.58
1:D:2194:ILE:CG2	1:E:2099:TYR:OH	2.46	0.58
1:A:2108:ASN:HD21	1:E:2187:ARG:CZ	2.16	0.58
1:E:2189:ARG:HH11	1:E:2189:ARG:CG	2.13	0.58
1:A:1093:VAL:HG12	1:A:1586:LEU:HD21	1.86	0.58
1:A:1204:ARG:NH2	1:A:1210:ASN:HD21	2.00	0.58
1:B:1633:GLN:HB3	1:B:1755:SER:HB2	1.85	0.58
1:C:1050:ARG:HB2	1:C:1838:ASP:OD2	2.04	0.58
1:C:2172:MET:HE1	1:D:2121:ALA:HA	1.84	0.58
1:D:142:ARG:NH1	1:D:992:SER:OG	2.37	0.58
1:E:2397:LYS:O	1:E:2400:GLU:HG2	2.02	0.58
1:A:1291:TYR:O	1:A:1292:GLN:HG2	2.04	0.58
1:A:1633:GLN:HB3	1:A:1755:SER:HB2	1.85	0.58
1:A:2430:GLN:H	1:A:2497:GLN:HE22	1.50	0.58
1:A:142:ARG:NH1	1:A:992:SER:OG	2.37	0.58
1:B:186:MET:O	1:B:190:SER:CB	2.52	0.58
1:C:1286:TYR:O	1:C:1290:SER:OG	2.15	0.58
1:C:1291:TYR:O	1:C:1292:GLN:HG2	2.04	0.58
1:C:137:TYR:HE2	1:C:139:ASP:HB2	1.69	0.58
1:D:1302:VAL:HG12	1:D:1583:ALA:HB1	1.84	0.58
1:D:1818:VAL:HB	1:D:1821:LEU:HD12	1.83	0.58
1:D:1050:ARG:HB2	1:D:1838:ASP:OD2	2.04	0.58
1:D:2501:LEU:HD23	1:D:2504:LEU:HD21	1.85	0.58
1:E:1093:VAL:HG12	1:E:1586:LEU:HD21	1.86	0.58
1:E:142:ARG:NH1	1:E:992:SER:OG	2.37	0.58
1:B:137:TYR:HE2	1:B:139:ASP:HB2	1.69	0.58
1:B:1832:LEU:HG	1:B:1833:ASP:H	1.68	0.58
1:B:93:ASN:OD1	1:B:1894:PRO:HD3	2.04	0.58
1:C:183:THR:O	1:C:187:GLU:CB	2.52	0.58
1:D:2208:ALA:HB1	1:E:2084:VAL:CG2	2.32	0.58
1:A:1218:ASN:O	1:A:1222:SER:CB	2.51	0.58

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1069:LEU:HD22	1:B:1782:ARG:HD2	1.86	0.57
1:B:1865:ASP:O	1:B:1868:TYR:N	2.37	0.57
1:B:1961:GLN:O	1:B:1965:GLN:HG2	2.04	0.57
1:C:1093:VAL:HG12	1:C:1586:LEU:HD21	1.85	0.57
1:C:2360:LEU:HD22	1:C:2375:LEU:HD23	1.86	0.57
1:D:2172:MET:HE3	1:E:2121:ALA:CA	2.28	0.57
1:E:1832:LEU:HG	1:E:1833:ASP:H	1.68	0.57
1:E:1961:GLN:O	1:E:1965:GLN:HG2	2.04	0.57
1:A:137:TYR:HE2	1:A:139:ASP:HB2	1.69	0.57
1:A:1597:GLN:OE1	1:A:1602:ARG:NH2	2.37	0.57
1:A:1951:GLN:HG3	1:A:1952:ILE:H	1.69	0.57
1:A:2183:GLU:CD	1:B:2111:GLU:CG	2.73	0.57
1:C:1069:LEU:HD22	1:C:1782:ARG:HD2	1.86	0.57
1:C:2222:LEU:HD12	1:D:2073:LYS:CD	2.29	0.57
1:D:1260:LYS:HA	1:D:1287:ARG:HH22	1.69	0.57
1:D:1093:VAL:HG12	1:D:1586:LEU:HD21	1.86	0.57
1:D:1951:GLN:HG3	1:D:1952:ILE:H	1.69	0.57
1:D:1961:GLN:O	1:D:1965:GLN:HG2	2.04	0.57
1:A:2098:SER:HG	1:E:2194:ILE:CD1	2.12	0.57
1:A:2172:MET:HE1	1:B:2121:ALA:HA	1.85	0.57
1:B:1664:TYR:HB3	1:B:1673:SER:O	2.04	0.57
1:B:1050:ARG:HB2	1:B:1838:ASP:OD2	2.04	0.57
1:A:2447:ALA:HB3	1:B:2329:LEU:CD2	2.33	0.57
1:C:1773:TYR:O	1:C:1776:PRO:HD2	2.05	0.57
1:C:93:ASN:OD1	1:C:1894:PRO:HD3	2.04	0.57
1:D:137:TYR:HE2	1:D:139:ASP:HB2	1.69	0.57
1:C:2216:ARG:HA	1:D:2077:GLU:OE1	2.04	0.57
1:D:2284:LEU:HD21	1:D:2324:ARG:HB2	1.85	0.57
1:E:137:TYR:HE2	1:E:139:ASP:HB2	1.69	0.57
1:E:162:LEU:O	1:E:166:ASN:ND2	2.38	0.57
1:D:2176:ALA:CB	1:E:2117:LEU:CD1	2.77	0.57
1:D:2172:MET:HE1	1:E:2121:ALA:HA	1.84	0.57
1:A:1664:TYR:HB3	1:A:1673:SER:O	2.04	0.57
1:A:1050:ARG:HB2	1:A:1838:ASP:OD2	2.04	0.57
1:C:1302:VAL:HG12	1:C:1583:ALA:HB1	1.84	0.57
1:C:1961:GLN:O	1:C:1965:GLN:HG2	2.04	0.57
1:D:186:MET:O	1:D:190:SER:CB	2.52	0.57
1:D:2245:PHE:HD2	1:E:2044:ILE:HG21	1.70	0.57
1:D:2253:TRP:CD1	1:E:2301:TYR:CE2	2.92	0.57
1:A:1130:LYS:HB2	1:A:1140:ALA:HB2	1.87	0.57
1:A:162:LEU:O	1:A:166:ASN:ND2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:969:GLN:HB3	1:A:999:ARG:NH1	2.19	0.57
1:B:1260:LYS:HA	1:B:1287:ARG:HH22	1.69	0.57
1:B:1597:GLN:OE1	1:B:1602:ARG:NH2	2.37	0.57
1:B:162:LEU:O	1:B:166:ASN:ND2	2.38	0.57
1:B:1837:PRO:HG3	1:C:1996:LEU:HD12	1.85	0.57
1:A:1837:PRO:HG3	1:B:1996:LEU:HD12	1.84	0.57
1:A:2245:PHE:HD2	1:B:2044:ILE:HG21	1.70	0.57
1:C:186:MET:O	1:C:190:SER:CB	2.52	0.57
1:B:1261:ASN:H	1:B:1287:ARG:NH1	2.01	0.57
1:C:1218:ASN:O	1:C:1222:SER:CB	2.51	0.57
1:C:1865:ASP:O	1:C:1868:TYR:N	2.37	0.57
1:B:2179:ILE:HB	1:C:2114:ALA:HB2	1.85	0.57
1:D:1841:ALA:O	1:D:1842:GLN:CB	2.53	0.57
1:C:1002:GLU:CG	1:D:1882:TRP:CH2	2.68	0.57
1:D:2172:MET:HE1	1:E:2121:ALA:CA	2.34	0.57
1:D:2172:MET:CE	1:E:2121:ALA:HB2	2.34	0.57
1:B:2187:ARG:CZ	1:C:2108:ASN:HD21	2.18	0.57
1:D:1291:TYR:O	1:D:1292:GLN:HG2	2.04	0.57
1:D:1069:LEU:HD22	1:D:1782:ARG:HD2	1.86	0.57
1:D:2013:PHE:HZ	1:E:2323:LYS:CG	2.14	0.57
1:C:2172:MET:CE	1:D:2121:ALA:HB2	2.34	0.57
1:E:969:GLN:HB3	1:E:999:ARG:NH1	2.19	0.57
1:B:1130:LYS:HB2	1:B:1140:ALA:HB2	1.87	0.57
1:C:1260:LYS:HA	1:C:1287:ARG:HH22	1.69	0.57
1:B:2194:ILE:CG2	1:C:2099:TYR:OH	2.47	0.57
1:C:2189:ARG:CG	1:C:2189:ARG:HH11	2.13	0.57
1:D:1286:TYR:O	1:D:1290:SER:OG	2.15	0.57
1:D:1664:TYR:HB3	1:D:1673:SER:O	2.04	0.57
1:D:1773:TYR:O	1:D:1776:PRO:HD2	2.05	0.57
1:D:2189:ARG:CG	1:D:2189:ARG:HH11	2.13	0.57
1:D:969:GLN:HB3	1:D:999:ARG:NH1	2.19	0.57
1:A:1599:GLN:HB3	1:A:1601:TYR:CD2	2.40	0.57
1:C:1597:GLN:OE1	1:C:1602:ARG:NH2	2.37	0.57
1:C:1837:PRO:HG3	1:D:1996:LEU:HD12	1.86	0.57
1:C:1951:GLN:HG3	1:C:1952:ILE:H	1.69	0.57
1:C:930:GLN:HA	1:C:933:THR:HG22	1.87	0.57
1:D:93:ASN:OD1	1:D:1894:PRO:HD3	2.04	0.57
1:C:2461:GLN:HE21	1:D:2465:ASN:ND2	2.02	0.57
1:E:1130:LYS:HB2	1:E:1140:ALA:HB2	1.87	0.57
1:E:186:MET:O	1:E:190:SER:CB	2.52	0.57
1:A:2360:LEU:HD22	1:A:2375:LEU:HD23	1.86	0.57

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2172:MET:HE1	1:D:2121:ALA:N	2.19	0.56
1:D:930:GLN:HA	1:D:933:THR:HG22	1.87	0.56
1:E:1736:ASN:HB3	1:E:1738:LYS:NZ	2.20	0.56
1:A:2117:LEU:CD1	1:E:2176:ALA:CB	2.76	0.56
1:A:1676:ILE:HG13	1:A:1677:TYR:H	1.70	0.56
1:A:2118:ARG:NH2	1:A:2177:ASP:OD2	2.39	0.56
1:C:1872:GLU:O	1:C:1875:THR:OG1	2.15	0.56
1:C:2419:LEU:HD12	1:C:2429:VAL:HG11	1.88	0.56
1:C:2208:ALA:HB1	1:D:2084:VAL:CG2	2.33	0.56
1:C:2169:ALA:CA	1:D:2124:LEU:HD11	2.05	0.56
1:E:1069:LEU:HD22	1:E:1782:ARG:HD2	1.86	0.56
1:E:1599:GLN:HB3	1:E:1601:TYR:CD2	2.40	0.56
1:A:2465:ASN:ND2	1:E:2461:GLN:HE21	2.03	0.56
1:B:2429:VAL:O	1:B:2451:SER:HA	2.06	0.56
1:B:969:GLN:HB3	1:B:999:ARG:NH1	2.19	0.56
1:C:1898:LEU:HD11	1:C:1952:ILE:HD12	1.88	0.56
1:C:2179:ILE:HB	1:D:2114:ALA:HB2	1.87	0.56
1:A:1878:GLU:CD	1:E:1026:LYS:HZ3	2.07	0.56
1:A:2099:TYR:HH	1:E:2194:ILE:HG21	1.70	0.56
1:B:1676:ILE:HG13	1:B:1677:TYR:H	1.70	0.56
1:B:2118:ARG:NH2	1:B:2177:ASP:OD2	2.39	0.56
1:B:141:ARG:HD3	1:B:970:TYR:O	2.06	0.56
1:D:1130:LYS:HB2	1:D:1140:ALA:HB2	1.87	0.56
1:D:2419:LEU:HD12	1:D:2429:VAL:HG11	1.88	0.56
1:E:1773:TYR:O	1:E:1776:PRO:HD2	2.05	0.56
1:E:2419:LEU:HD12	1:E:2429:VAL:HG11	1.88	0.56
1:A:2281:ARG:NH1	1:A:2290:ARG:HH21	2.04	0.56
1:B:1841:ALA:O	1:B:1842:GLN:CB	2.53	0.56
1:C:1599:GLN:HB3	1:C:1601:TYR:CD2	2.40	0.56
1:C:2429:VAL:O	1:C:2451:SER:HA	2.06	0.56
1:D:2281:ARG:NH1	1:D:2290:ARG:HH21	2.04	0.56
1:E:2124:LEU:O	1:E:2128:VAL:HG23	2.06	0.56
1:C:1736:ASN:HB3	1:C:1738:LYS:NZ	2.20	0.56
1:D:137:TYR:CE2	1:D:139:ASP:HB2	2.40	0.56
1:C:2172:MET:HE1	1:D:2121:ALA:CA	2.36	0.56
1:E:2281:ARG:NH1	1:E:2290:ARG:HH21	2.04	0.56
1:A:2429:VAL:O	1:A:2451:SER:HA	2.06	0.56
1:B:1760:PHE:HD2	1:B:1820:PRO:HG3	1.71	0.56
1:B:2173:ASN:CA	1:C:2117:LEU:HD21	2.34	0.56
1:C:141:ARG:HD3	1:C:970:TYR:O	2.06	0.56
1:D:1599:GLN:HB3	1:D:1601:TYR:CD2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1736:ASN:HB3	1:D:1738:LYS:NZ	2.20	0.56
1:C:1244:THR:CG2	1:D:1808:HIS:HA	2.33	0.56
1:C:2194:ILE:CG2	1:D:2099:TYR:OH	2.48	0.56
1:E:1680:GLN:N	1:E:1680:GLN:OE1	2.39	0.56
1:A:2121:ALA:HA	1:E:2172:MET:HE1	1.88	0.56
1:A:2124:LEU:O	1:A:2128:VAL:HG23	2.06	0.56
1:B:1163:TYR:HB3	1:B:1168:TYR:CD1	2.41	0.56
1:C:1680:GLN:OE1	1:C:1680:GLN:N	2.39	0.56
1:C:1806:ILE:HG13	1:C:1809:GLY:O	2.06	0.56
1:D:1680:GLN:N	1:D:1680:GLN:OE1	2.39	0.56
1:A:1736:ASN:HB3	1:A:1738:LYS:NZ	2.20	0.55
1:A:1898:LEU:HD11	1:A:1952:ILE:HD12	1.88	0.55
1:B:1233:GLY:O	1:B:1249:PHE:HA	2.06	0.55
1:A:2194:ILE:HG21	1:B:2099:TYR:CE1	2.41	0.55
1:B:2124:LEU:O	1:B:2128:VAL:HG23	2.06	0.55
1:C:1739:SER:OG	1:C:1740:ILE:N	2.39	0.55
1:C:2173:ASN:CA	1:D:2117:LEU:HD21	2.34	0.55
1:E:1233:GLY:O	1:E:1249:PHE:HA	2.07	0.55
1:E:1760:PHE:HD2	1:E:1820:PRO:HG3	1.71	0.55
1:A:2301:TYR:CE2	1:E:2253:TRP:CD1	2.94	0.55
1:B:137:TYR:CE2	1:B:139:ASP:HB2	2.40	0.55
1:B:1680:GLN:N	1:B:1680:GLN:OE1	2.39	0.55
1:B:2430:GLN:HB2	1:B:2497:GLN:NE2	2.22	0.55
1:C:2281:ARG:NH1	1:C:2290:ARG:HH21	2.04	0.55
1:B:2468:LYS:HD3	1:C:2327:ARG:NH1	2.21	0.55
1:D:152:GLN:HE21	1:D:156:ASP:CG	2.10	0.55
1:D:2118:ARG:NH2	1:D:2177:ASP:OD2	2.39	0.55
1:D:2239:ALA:HB1	1:D:2243:ARG:NH1	2.20	0.55
1:D:2429:VAL:O	1:D:2451:SER:HA	2.06	0.55
1:E:1093:VAL:HG21	1:E:1605:LEU:HD13	1.89	0.55
1:E:152:GLN:HE21	1:E:156:ASP:CG	2.10	0.55
1:A:2327:ARG:HB2	1:E:2016:LEU:CD1	2.36	0.55
1:A:2077:GLU:OE1	1:E:2216:ARG:HA	2.06	0.55
1:A:2430:GLN:HB2	1:A:2497:GLN:NE2	2.22	0.55
1:B:1806:ILE:HG13	1:B:1809:GLY:O	2.06	0.55
1:C:1163:TYR:HB3	1:C:1168:TYR:CD1	2.41	0.55
1:B:2461:GLN:HE21	1:C:2465:ASN:ND2	2.03	0.55
1:D:1026:LYS:HZ3	1:E:1878:GLU:CD	2.09	0.55
1:D:1163:TYR:HB3	1:D:1168:TYR:CD1	2.41	0.55
1:D:1806:ILE:HG13	1:D:1809:GLY:O	2.06	0.55
1:D:2124:LEU:O	1:D:2128:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1163:TYR:HB3	1:E:1168:TYR:CD1	2.41	0.55
1:E:1676:ILE:HG13	1:E:1677:TYR:H	1.70	0.55
1:E:1806:ILE:HG13	1:E:1809:GLY:O	2.06	0.55
1:E:1760:PHE:CD2	1:E:1820:PRO:HG3	2.42	0.55
1:E:2430:GLN:HB2	1:E:2497:GLN:NE2	2.22	0.55
1:A:1163:TYR:HB3	1:A:1168:TYR:CD1	2.41	0.55
1:C:1233:GLY:O	1:C:1249:PHE:HA	2.07	0.55
1:C:1676:ILE:HG13	1:C:1677:TYR:H	1.70	0.55
1:C:1760:PHE:HD2	1:C:1820:PRO:CG	2.20	0.55
1:D:1112:GLY:N	1:D:1122:TYR:O	2.32	0.55
1:D:1233:GLY:O	1:D:1249:PHE:HA	2.07	0.55
1:D:1872:GLU:O	1:D:1875:THR:OG1	2.15	0.55
1:D:2374:ASN:OD1	1:D:2374:ASN:N	2.40	0.55
1:D:141:ARG:HD3	1:D:970:TYR:O	2.06	0.55
1:E:930:GLN:HA	1:E:933:THR:HG22	1.87	0.55
1:A:141:ARG:HD3	1:A:970:TYR:O	2.06	0.55
1:A:1739:SER:OG	1:A:1740:ILE:N	2.39	0.55
1:B:1898:LEU:HD11	1:B:1952:ILE:HD12	1.88	0.55
1:A:2183:GLU:OE2	1:B:2111:GLU:CG	2.54	0.55
1:C:2124:LEU:O	1:C:2128:VAL:HG23	2.06	0.55
1:C:2382:ASP:O	1:C:2383:THR:OG1	2.18	0.55
1:D:1739:SER:OG	1:D:1740:ILE:N	2.39	0.55
1:A:2114:ALA:HB2	1:E:2179:ILE:HB	1.87	0.55
1:A:1029:SER:HA	1:B:1989:PRO:HA	1.89	0.55
1:A:1233:GLY:O	1:A:1249:PHE:HA	2.07	0.55
1:A:1760:PHE:HD2	1:A:1820:PRO:HG3	1.71	0.55
1:A:930:GLN:HA	1:A:933:THR:HG22	1.87	0.55
1:B:1015:ARG:HA	1:B:1105:GLN:OE1	2.07	0.55
1:B:2216:ARG:HA	1:C:2077:GLU:OE1	2.05	0.55
1:B:2419:LEU:HD12	1:B:2429:VAL:HG11	1.88	0.55
1:C:1016:GLN:HE21	1:C:1129:SER:HB3	1.72	0.55
1:C:2245:PHE:HD2	1:D:2044:ILE:HG21	1.71	0.55
1:C:2430:GLN:HB2	1:C:2497:GLN:NE2	2.22	0.55
1:D:1093:VAL:HG21	1:D:1605:LEU:HD13	1.89	0.55
1:D:1760:PHE:HD2	1:D:1820:PRO:CG	2.20	0.55
1:D:1760:PHE:CD2	1:D:1820:PRO:HG3	2.42	0.55
1:D:2183:GLU:CD	1:E:2111:GLU:CG	2.75	0.55
1:E:2118:ARG:NH2	1:E:2177:ASP:OD2	2.39	0.55
1:A:2327:ARG:NH1	1:E:2468:LYS:HD3	2.20	0.55
1:A:1016:GLN:HE21	1:A:1129:SER:HB3	1.72	0.55
1:A:1584:LEU:HD13	1:A:1596:MET:HG3	1.89	0.55

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2194:ILE:CG2	1:B:2099:TYR:OH	2.47	0.54
1:C:1097:TYR:CD1	1:C:1303:ASN:HB2	2.43	0.54
1:C:1760:PHE:CD2	1:C:1820:PRO:HG3	2.42	0.54
1:C:964:ARG:O	1:C:967:LEU:HB3	2.08	0.54
1:D:124:ARG:NH1	1:D:1913:ILE:HA	2.22	0.54
1:E:1057:MET:CE	1:E:1770:GLU:HB3	2.38	0.54
1:E:1016:GLN:HE21	1:E:1129:SER:HB3	1.72	0.54
1:E:964:ARG:O	1:E:967:LEU:HB3	2.08	0.54
1:A:2348:ASN:HB3	1:A:2370:SER:HB2	1.89	0.54
1:A:964:ARG:O	1:A:967:LEU:HB3	2.08	0.54
1:C:1041:PRO:O	1:C:1045:ILE:HG12	2.08	0.54
1:B:1029:SER:HA	1:C:1989:PRO:HA	1.89	0.54
1:D:1078:PHE:CE1	1:D:1771:LEU:HG	2.42	0.54
1:D:2016:LEU:CD1	1:E:2327:ARG:HB2	2.38	0.54
1:A:1041:PRO:O	1:A:1045:ILE:HG12	2.08	0.54
1:A:2007:GLY:O	1:A:2009:LEU:HG	2.07	0.54
1:A:95:GLN:O	1:A:96:PHE:C	2.46	0.54
1:B:1584:LEU:HD13	1:B:1596:MET:HG3	1.89	0.54
1:B:2253:TRP:CD1	1:C:2301:TYR:CE2	2.95	0.54
1:B:964:ARG:O	1:B:967:LEU:HB3	2.08	0.54
1:C:1057:MET:CE	1:C:1770:GLU:HB3	2.38	0.54
1:C:2194:ILE:HD11	1:D:2098:SER:HG	1.71	0.54
1:D:1041:PRO:O	1:D:1045:ILE:HG12	2.08	0.54
1:D:1057:MET:CE	1:D:1770:GLU:HB3	2.38	0.54
1:E:1795:TRP:HA	1:E:1798:TYR:HD2	1.72	0.54
1:D:2468:LYS:HD3	1:E:2327:ARG:NH1	2.23	0.54
1:E:2382:ASP:O	1:E:2383:THR:OG1	2.18	0.54
1:A:1760:PHE:HD2	1:A:1820:PRO:CG	2.20	0.54
1:B:1041:PRO:O	1:B:1045:ILE:HG12	2.08	0.54
1:B:1675:ILE:HD12	1:B:1675:ILE:H	1.73	0.54
1:C:1093:VAL:HG21	1:C:1605:LEU:HD13	1.88	0.54
1:C:124:ARG:NH1	1:C:1913:ILE:HA	2.22	0.54
1:C:2016:LEU:CD1	1:D:2327:ARG:HB2	2.38	0.54
1:C:2019:PHE:CZ	1:C:2023:LEU:HD22	2.43	0.54
1:C:2183:GLU:CD	1:D:2111:GLU:CG	2.75	0.54
1:C:2019:PHE:CD1	1:C:2280:TYR:HB2	2.43	0.54
1:D:1097:TYR:CD1	1:D:1303:ASN:HB2	2.43	0.54
1:D:961:ILE:HG23	1:D:962:LYS:H	1.73	0.54
1:A:1665:ILE:HG23	1:A:1674:HIS:HD2	1.72	0.54
1:A:2019:PHE:CD1	1:A:2280:TYR:HB2	2.43	0.54
1:B:1093:VAL:HG21	1:B:1605:LEU:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1865:ASP:OD1	1:B:1883:TYR:OH	2.26	0.54
1:B:2172:MET:CE	1:C:2121:ALA:CB	2.86	0.54
1:C:103:TYR:HD1	1:C:1950:PRO:HG2	1.73	0.54
1:D:115:PRO:CG	1:E:1986:TYR:CD1	2.91	0.54
1:D:2194:ILE:HG21	1:E:2099:TYR:CE1	2.43	0.54
1:A:2117:LEU:HD13	1:E:2176:ALA:HB2	1.81	0.54
1:A:1795:TRP:HA	1:A:1798:TYR:HD2	1.72	0.53
1:A:2409:ILE:HG13	1:A:2516:LYS:HB2	1.91	0.53
1:B:1078:PHE:CE1	1:B:1771:LEU:HG	2.42	0.53
1:D:1675:ILE:HD12	1:D:1675:ILE:H	1.73	0.53
1:E:1041:PRO:O	1:E:1045:ILE:HG12	2.08	0.53
1:E:1204:ARG:HH21	1:E:1210:ASN:CG	2.10	0.53
1:A:961:ILE:HG23	1:A:962:LYS:H	1.73	0.53
1:C:1204:ARG:HH21	1:C:1210:ASN:CG	2.10	0.53
1:C:1584:LEU:HD13	1:C:1596:MET:HG3	1.89	0.53
1:C:1760:PHE:HD2	1:C:1820:PRO:HG3	1.71	0.53
1:B:2449:ALA:HB2	1:C:2329:LEU:HD13	1.90	0.53
1:C:2423:LEU:HD22	1:C:2429:VAL:HG23	1.91	0.53
1:D:2423:LEU:HD22	1:D:2429:VAL:HG23	1.90	0.53
1:A:2323:LYS:CG	1:E:2013:PHE:HZ	2.16	0.53
1:B:2007:GLY:O	1:B:2009:LEU:HG	2.07	0.53
1:B:2019:PHE:CZ	1:B:2023:LEU:HD22	2.43	0.53
1:C:1865:ASP:OD1	1:C:1883:TYR:OH	2.26	0.53
1:C:2176:ALA:HB2	1:D:2117:LEU:HD13	1.83	0.53
1:C:2183:GLU:OE2	1:D:2111:GLU:CG	2.57	0.53
1:C:2194:ILE:HG21	1:D:2099:TYR:CE1	2.44	0.53
1:C:2272:ARG:NH2	1:D:2318:GLU:CB	2.72	0.53
1:D:2409:ILE:HG13	1:D:2516:LYS:HB2	1.91	0.53
1:D:964:ARG:O	1:D:967:LEU:HB3	2.08	0.53
1:E:2019:PHE:CZ	1:E:2023:LEU:HD22	2.43	0.53
1:D:2204:LYS:C	1:E:2087:LYS:HG2	2.28	0.53
1:E:95:GLN:O	1:E:96:PHE:C	2.46	0.53
1:A:1675:ILE:HD12	1:A:1675:ILE:H	1.73	0.53
1:A:1808:HIS:HA	1:E:1244:THR:CG2	2.37	0.53
1:A:2423:LEU:HD22	1:A:2429:VAL:HG23	1.91	0.53
1:B:1204:ARG:HH21	1:B:1210:ASN:CG	2.10	0.53
1:B:2430:GLN:H	1:B:2497:GLN:NE2	2.07	0.53
1:B:2173:ASN:HA	1:C:2117:LEU:CD2	2.37	0.53
1:C:2239:ALA:HB1	1:C:2243:ARG:NH1	2.20	0.53
1:D:1132:ASN:HB3	1:D:1843:HIS:NE2	2.22	0.53
1:D:103:TYR:HD1	1:D:1950:PRO:HG2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2007:GLY:O	1:D:2009:LEU:HG	2.07	0.53
1:D:2019:PHE:CD1	1:D:2280:TYR:HB2	2.43	0.53
1:D:1026:LYS:NZ	1:E:1878:GLU:CD	2.62	0.53
1:E:2409:ILE:HG13	1:E:2516:LYS:HB2	1.91	0.53
1:A:1204:ARG:HH21	1:A:1210:ASN:CG	2.10	0.53
1:A:2016:LEU:CD1	1:B:2327:ARG:HB2	2.39	0.53
1:B:1795:TRP:HA	1:B:1798:TYR:HD2	1.72	0.53
1:B:2423:LEU:HD22	1:B:2429:VAL:HG23	1.90	0.53
1:B:95:GLN:O	1:B:96:PHE:C	2.46	0.53
1:B:2245:PHE:HD2	1:C:2044:ILE:HG21	1.72	0.53
1:D:2183:GLU:OE2	1:E:2111:GLU:CG	2.57	0.53
1:E:1249:PHE:N	1:E:1265:GLN:O	2.29	0.53
1:E:1675:ILE:H	1:E:1675:ILE:HD12	1.73	0.53
1:A:1081:TYR:CD2	1:A:1771:LEU:HD12	2.44	0.53
1:A:2019:PHE:CZ	1:A:2023:LEU:HD22	2.43	0.53
1:A:2430:GLN:H	1:A:2497:GLN:NE2	2.07	0.53
1:B:1641:PHE:CE2	1:B:1643:ALA:HB2	2.44	0.53
1:A:2223:GLN:HA	1:B:2070:ILE:HD11	1.90	0.53
1:D:1081:TYR:CD2	1:D:1771:LEU:HD12	2.44	0.53
1:D:1091:LEU:HD21	1:D:1122:TYR:HD2	1.73	0.53
1:E:1091:LEU:HD21	1:E:1122:TYR:HD2	1.73	0.53
1:E:1865:ASP:OD1	1:E:1883:TYR:OH	2.26	0.53
1:A:1758:MET:HG3	1:A:1760:PHE:CE1	2.44	0.53
1:B:1660:TRP:CH2	1:B:1680:GLN:HB3	2.36	0.53
1:B:2172:MET:HE2	1:C:2121:ALA:CB	2.39	0.53
1:B:2374:ASN:OD1	1:B:2374:ASN:N	2.40	0.53
1:C:1202:HIS:CE1	1:C:1210:ASN:HD22	2.27	0.53
1:C:1081:TYR:CD2	1:C:1771:LEU:HD12	2.44	0.53
1:D:1202:HIS:CE1	1:D:1210:ASN:HD22	2.27	0.53
1:E:1300:ARG:HD2	1:E:1586:LEU:HD22	1.90	0.53
1:E:124:ARG:NH1	1:E:1913:ILE:HA	2.22	0.53
1:D:2187:ARG:CZ	1:E:2188:ARG:NH2	2.72	0.53
1:A:1641:PHE:CE2	1:A:1643:ALA:HB2	2.44	0.53
1:B:1202:HIS:CE1	1:B:1210:ASN:HD22	2.27	0.53
1:C:2472:PHE:O	1:C:2475:ILE:HG12	2.08	0.53
1:C:2430:GLN:H	1:C:2497:GLN:NE2	2.07	0.53
1:C:2409:ILE:HG13	1:C:2516:LYS:HB2	1.91	0.53
1:D:1300:ARG:HD2	1:D:1586:LEU:HD22	1.89	0.53
1:D:2222:LEU:HD12	1:E:2073:LYS:CD	2.29	0.53
1:C:2449:ALA:HB2	1:D:2329:LEU:HD13	1.90	0.53
1:E:2423:LEU:HD22	1:E:2429:VAL:HG23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2374:ASN:OD1	1:A:2374:ASN:N	2.40	0.53
1:B:1758:MET:HG3	1:B:1760:PHE:CE1	2.44	0.53
1:B:2187:ARG:CZ	1:C:2188:ARG:NH2	2.72	0.53
1:B:2409:ILE:HG13	1:B:2516:LYS:HB2	1.91	0.53
1:C:1091:LEU:HD21	1:C:1122:TYR:HD2	1.73	0.53
1:C:1300:ARG:HD2	1:C:1586:LEU:HD22	1.89	0.53
1:C:1675:ILE:HD12	1:C:1675:ILE:H	1.73	0.53
1:C:2106:ASN:C	1:C:2107:ILE:CG1	2.78	0.53
1:D:1758:MET:HG3	1:D:1760:PHE:CE1	2.44	0.53
1:D:1865:ASP:OD1	1:D:1883:TYR:OH	2.26	0.53
1:E:1758:MET:HG3	1:E:1760:PHE:CE1	2.44	0.53
1:A:2111:GLU:CG	1:E:2183:GLU:CD	2.78	0.53
1:E:2239:ALA:HB1	1:E:2243:ARG:NH1	2.20	0.53
1:C:2014:MET:HA	1:C:2278:GLN:HG3	1.91	0.53
1:D:2014:MET:HA	1:D:2278:GLN:HG3	1.90	0.53
1:D:95:GLN:O	1:D:96:PHE:C	2.46	0.53
1:E:2430:GLN:H	1:E:2497:GLN:NE2	2.07	0.53
1:A:1204:ARG:HH21	1:A:1210:ASN:ND2	2.08	0.52
1:A:2014:MET:HA	1:A:2278:GLN:HG3	1.91	0.52
1:B:1112:GLY:N	1:B:1122:TYR:O	2.32	0.52
1:A:1244:THR:CG2	1:B:1808:HIS:HA	2.34	0.52
1:A:2449:ALA:HB2	1:B:2329:LEU:HD13	1.91	0.52
1:B:2382:ASP:O	1:B:2383:THR:OG1	2.18	0.52
1:C:1641:PHE:CE2	1:C:1643:ALA:HB2	2.44	0.52
1:B:2208:ALA:HB3	1:C:2084:VAL:HG22	1.90	0.52
1:B:2258:LEU:CB	1:C:2305:LEU:HD21	2.22	0.52
1:C:95:GLN:O	1:C:96:PHE:C	2.46	0.52
1:D:1220:LYS:HE3	1:D:1267:LEU:HB3	1.91	0.52
1:D:2179:ILE:HG21	1:E:2114:ALA:H	1.74	0.52
1:E:1641:PHE:CE2	1:E:1643:ALA:HB2	2.44	0.52
1:A:1865:ASP:OD1	1:A:1883:TYR:OH	2.26	0.52
1:A:2472:PHE:O	1:A:2475:ILE:HG12	2.08	0.52
1:B:1081:TYR:CD2	1:B:1771:LEU:HD12	2.44	0.52
1:B:103:TYR:HD1	1:B:1950:PRO:HG2	1.72	0.52
1:A:2222:LEU:CD1	1:B:2073:LYS:CE	2.87	0.52
1:B:2472:PHE:O	1:B:2475:ILE:HG12	2.08	0.52
1:C:1660:TRP:CH2	1:C:1680:GLN:HB3	2.36	0.52
1:D:1666:LYS:HD2	1:D:1708:TYR:HE1	1.74	0.52
1:D:2019:PHE:CZ	1:D:2023:LEU:HD22	2.43	0.52
1:D:2205:GLN:N	1:E:2087:LYS:CG	2.72	0.52
1:D:2272:ARG:NH2	1:E:2318:GLU:CB	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2222:LEU:HD11	1:E:2073:LYS:HE2	1.91	0.52
1:D:2201:ALA:HB1	1:E:2091:GLY:CA	2.38	0.52
1:A:2117:LEU:CD2	1:E:2173:ASN:HA	2.37	0.52
1:B:2194:ILE:HD11	1:C:2098:SER:HG	1.72	0.52
1:B:961:ILE:HG23	1:B:962:LYS:H	1.73	0.52
1:C:1220:LYS:HE3	1:C:1267:LEU:HB3	1.91	0.52
1:C:2447:ALA:CB	1:D:2329:LEU:HD22	2.38	0.52
1:C:961:ILE:HG23	1:C:962:LYS:H	1.73	0.52
1:C:148:MET:SD	1:C:986:ILE:HG22	2.50	0.52
1:D:2172:MET:CE	1:E:2121:ALA:CB	2.87	0.52
1:D:160:SER:CA	1:D:982:LYS:HD2	2.40	0.52
1:E:1081:TYR:CD2	1:E:1771:LEU:HD12	2.44	0.52
1:E:1202:HIS:CE1	1:E:1210:ASN:HD22	2.27	0.52
1:E:1821:LEU:HD22	1:E:1849:LYS:HG3	1.91	0.52
1:A:2213:LEU:HD23	1:A:2216:ARG:HD2	1.92	0.52
1:A:2218:GLU:OE1	1:B:2073:LYS:HB3	2.10	0.52
1:C:1821:LEU:HD23	1:C:1845:PRO:HB2	1.91	0.52
1:B:2183:GLU:CD	1:C:2111:GLU:CG	2.77	0.52
1:C:2213:LEU:HD23	1:C:2216:ARG:HD2	1.92	0.52
1:C:2222:LEU:CD1	1:D:2073:LYS:CE	2.87	0.52
1:D:2472:PHE:O	1:D:2475:ILE:HG12	2.08	0.52
1:E:160:SER:CA	1:E:982:LYS:HD2	2.40	0.52
1:E:2472:PHE:O	1:E:2475:ILE:HG12	2.08	0.52
1:E:93:ASN:HD21	1:E:1894:PRO:CA	2.22	0.52
1:A:1091:LEU:HD21	1:A:1122:TYR:HD2	1.73	0.52
1:A:2084:VAL:HG22	1:E:2208:ALA:HB3	1.90	0.52
1:B:1091:LEU:HD21	1:B:1122:TYR:HD2	1.73	0.52
1:B:1604:ARG:NH1	1:B:1759:ASP:OD2	2.43	0.52
1:A:2187:ARG:CZ	1:B:2188:ARG:NH2	2.72	0.52
1:B:2348:ASN:HB3	1:B:2370:SER:HB2	1.89	0.52
1:B:93:ASN:HD21	1:B:1894:PRO:CA	2.22	0.52
1:C:2223:GLN:HA	1:D:2070:ILE:HD11	1.91	0.52
1:D:148:MET:SD	1:D:986:ILE:HG22	2.50	0.52
1:D:1821:LEU:HD23	1:D:1845:PRO:HB2	1.91	0.52
1:D:2223:GLN:HA	1:E:2070:ILE:HD11	1.90	0.52
1:C:2460:PHE:CE1	1:D:2512:ARG:HB3	2.44	0.52
1:E:148:MET:SD	1:E:986:ILE:HG22	2.49	0.52
1:E:2213:LEU:HD23	1:E:2216:ARG:HD2	1.92	0.52
1:E:2014:MET:HA	1:E:2278:GLN:HG3	1.91	0.52
1:A:125:GLU:HG3	1:A:1017:PHE:CD1	2.45	0.52
1:B:1249:PHE:N	1:B:1265:GLN:O	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:160:SER:CA	1:B:982:LYS:HD2	2.40	0.52
1:B:1666:LYS:HD2	1:B:1708:TYR:HE1	1.74	0.52
1:B:2019:PHE:CD1	1:B:2280:TYR:HB2	2.43	0.52
1:A:2222:LEU:HD11	1:B:2073:LYS:HE2	1.90	0.52
1:C:160:SER:CA	1:C:982:LYS:HD2	2.40	0.52
1:C:1758:MET:HG3	1:C:1760:PHE:CE1	2.44	0.52
1:C:1604:ARG:NH1	1:C:1759:ASP:OD2	2.43	0.52
1:C:2222:LEU:HD11	1:D:2073:LYS:HE2	1.91	0.52
1:D:1641:PHE:CE2	1:D:1643:ALA:HB2	2.44	0.52
1:A:1666:LYS:HD2	1:A:1708:TYR:HE1	1.74	0.52
1:A:2204:LYS:C	1:B:2087:LYS:HG2	2.27	0.52
1:A:2239:ALA:HB1	1:A:2243:ARG:NH1	2.20	0.52
1:A:2310:LEU:O	1:A:2313:SER:N	2.43	0.52
1:B:125:GLU:HG3	1:B:1017:PHE:CD1	2.45	0.52
1:B:2310:LEU:O	1:B:2313:SER:N	2.43	0.52
1:C:1249:PHE:N	1:C:1265:GLN:O	2.29	0.52
1:D:2213:LEU:HD23	1:D:2216:ARG:HD2	1.92	0.52
1:D:2382:ASP:O	1:D:2383:THR:OG1	2.18	0.52
1:D:2218:GLU:OE1	1:E:2073:LYS:HB3	2.10	0.52
1:E:162:LEU:HD22	1:E:977:VAL:O	2.10	0.52
1:A:1042:GLU:OE2	1:A:1953:ASN:ND2	2.43	0.52
1:A:162:LEU:HD22	1:A:977:VAL:O	2.10	0.52
1:A:1821:LEU:HD23	1:A:1845:PRO:HB2	1.91	0.52
1:A:1995:LEU:HD13	1:E:1034:VAL:HB	1.92	0.52
1:A:2382:ASP:O	1:A:2383:THR:OG1	2.18	0.52
1:C:2201:ALA:HB1	1:D:2091:GLY:CA	2.39	0.52
1:C:2173:ASN:HA	1:D:2117:LEU:CD2	2.37	0.52
1:C:2468:LYS:HD3	1:D:2327:ARG:NH1	2.24	0.52
1:D:162:LEU:HD22	1:D:977:VAL:O	2.10	0.52
1:A:1878:GLU:CD	1:E:1026:LYS:NZ	2.63	0.52
1:A:1068:GLN:NE2	1:E:1205:TYR:CD2	2.78	0.52
1:E:1666:LYS:HD2	1:E:1708:TYR:HE1	1.74	0.52
1:E:2310:LEU:O	1:E:2313:SER:N	2.43	0.52
1:A:1821:LEU:HD22	1:A:1849:LYS:HG3	1.91	0.52
1:A:2013:PHE:HZ	1:B:2323:LYS:CG	2.17	0.52
1:B:1080:SER:HA	1:B:1083:THR:HG22	1.92	0.52
1:B:148:MET:SD	1:B:986:ILE:HG22	2.49	0.52
1:B:1821:LEU:HD22	1:B:1849:LYS:HG3	1.91	0.52
1:C:162:LEU:HD22	1:C:977:VAL:O	2.10	0.52
1:C:1666:LYS:HD2	1:C:1708:TYR:HE1	1.74	0.52
1:D:1103:ASN:ND2	1:D:1598:TRP:CG	2.76	0.52

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1026:LYS:NZ	1:C:1878:GLU:CD	2.65	0.50
1:B:1660:TRP:HD1	1:B:1661:PHE:CA	2.24	0.50
1:B:1042:GLU:OE2	1:B:1953:ASN:ND2	2.43	0.50
1:A:2208:ALA:HB3	1:B:2084:VAL:HG22	1.91	0.50
1:C:1080:SER:HA	1:C:1083:THR:HG22	1.92	0.50
1:D:1137:ALA:C	1:D:1139:ASN:H	2.15	0.50
1:E:160:SER:HA	1:E:982:LYS:CD	2.41	0.50
1:E:2106:ASN:C	1:E:2107:ILE:HG12	2.31	0.50
1:D:2447:ALA:CB	1:E:2329:LEU:HD22	2.39	0.50
1:E:2399:ARG:HE	1:E:2410:ARG:HH11	1.58	0.50
1:A:1122:TYR:HE1	1:A:1146:LYS:HG3	1.76	0.50
1:A:2091:GLY:CA	1:E:2201:ALA:HB1	2.41	0.50
1:A:2108:ASN:CG	1:E:2187:ARG:NH1	2.65	0.50
1:B:1226:LEU:HD12	1:B:1227:GLU:N	2.26	0.50
1:A:2183:GLU:CD	1:B:2111:GLU:HG2	2.32	0.50
1:B:2272:ARG:NH2	1:C:2318:GLU:CB	2.75	0.50
1:B:2273:CYS:SG	1:B:2314:LEU:HD11	2.52	0.50
1:C:1100:ASN:HB2	1:C:1106:GLY:HA3	1.93	0.50
1:C:160:SER:HA	1:C:982:LYS:CD	2.41	0.50
1:B:2201:ALA:HB1	1:C:2091:GLY:CA	2.40	0.50
1:C:2218:GLU:OE1	1:D:2073:LYS:HB3	2.12	0.50
1:C:2460:PHE:CZ	1:D:2330:GLU:CG	2.92	0.50
1:D:2430:GLN:HB2	1:D:2497:GLN:HE22	1.77	0.50
1:E:1100:ASN:HB2	1:E:1106:GLY:HA3	1.93	0.50
1:A:2111:GLU:CG	1:E:2183:GLU:OE2	2.59	0.50
1:E:2273:CYS:SG	1:E:2314:LEU:HD11	2.52	0.50
1:A:119:LEU:HD22	1:A:986:ILE:HB	1.92	0.50
1:A:1245:LEU:HB3	1:A:1269:ILE:HB	1.93	0.50
1:B:105:ALA:HB2	1:B:1898:LEU:HD23	1.92	0.50
1:B:2168:SER:O	1:B:2171:VAL:HG12	2.11	0.50
1:B:2280:TYR:CE1	1:B:2284:LEU:HD22	2.47	0.50
1:C:1975:SER:HB3	1:C:1981:LEU:HD23	1.94	0.50
1:D:1245:LEU:HB3	1:D:1269:ILE:HB	1.92	0.50
1:E:1137:ALA:C	1:E:1139:ASN:H	2.15	0.50
1:E:1204:ARG:NH2	1:E:1210:ASN:OD1	2.42	0.50
1:E:2154:TRP:O	1:E:2158:ALA:HB2	2.12	0.50
1:A:2512:ARG:HB3	1:E:2460:PHE:CE1	2.47	0.50
1:A:2185:TYR:HD1	1:A:2188:ARG:HD3	1.76	0.50
1:A:2018:ARG:HG2	1:A:2467:GLY:O	2.11	0.50
1:B:1122:TYR:HE1	1:B:1146:LYS:HG3	1.76	0.50
1:C:2253:TRP:CE2	1:D:2301:TYR:CE2	3.00	0.50

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1100:ASN:OD1	1:D:1101:ILE:N	2.46	0.49
1:D:2273:CYS:SG	1:D:2314:LEU:HD11	2.52	0.49
1:D:2331:VAL:HG11	1:D:2402:TYR:HE2	1.76	0.49
1:E:1112:GLY:N	1:E:1122:TYR:O	2.31	0.49
1:A:1996:LEU:CD1	1:E:1837:PRO:HG3	2.42	0.49
1:D:2187:ARG:NH1	1:E:2108:ASN:CG	2.66	0.49
1:A:1072:ASP:HB2	1:E:1204:ARG:CZ	2.42	0.49
1:A:1098:HIS:HE1	1:A:1128:HIS:CD2	2.30	0.49
1:A:1133:ASP:O	1:A:1135:LYS:N	2.46	0.49
1:A:1174:GLN:NE2	1:A:1196:TYR:HA	2.27	0.49
1:A:2215:VAL:O	1:A:2218:GLU:HB3	2.13	0.49
1:A:2280:TYR:CE1	1:A:2284:LEU:HD22	2.47	0.49
1:A:2329:LEU:HD13	1:E:2449:ALA:HB2	1.93	0.49
1:B:1676:ILE:HG13	1:B:1677:TYR:N	2.28	0.49
1:B:2365:SER:HA	1:B:2377:PHE:CD2	2.48	0.49
1:C:1676:ILE:HG13	1:C:1677:TYR:N	2.28	0.49
1:B:115:PRO:CG	1:C:1986:TYR:CD1	2.96	0.49
1:C:2272:ARG:HH22	1:D:2318:GLU:HB3	1.77	0.49
1:D:1640:GLY:HA3	1:D:1691:PHE:CZ	2.48	0.49
1:D:1660:TRP:CH2	1:D:1680:GLN:HB3	2.36	0.49
1:A:1160:PRO:HA	1:A:1169:LEU:HA	1.95	0.49
1:A:2179:ILE:HG21	1:B:2114:ALA:H	1.73	0.49
1:A:2266:TYR:CZ	1:A:2297:TRP:HB2	2.48	0.49
1:A:2468:LYS:HD3	1:B:2327:ARG:HH11	1.78	0.49
1:B:1640:GLY:HA3	1:B:1691:PHE:CZ	2.48	0.49
1:B:1711:PHE:H	1:B:1715:PRO:HG3	1.78	0.49
1:C:1640:GLY:HA3	1:C:1691:PHE:CZ	2.48	0.49
1:C:2464:PHE:HZ	1:C:2512:ARG:HH11	1.61	0.49
1:D:1133:ASP:O	1:D:1135:LYS:N	2.46	0.49
1:D:1646:VAL:HG22	1:D:1687:ASN:HA	1.95	0.49
1:D:2266:TYR:CZ	1:D:2297:TRP:HB2	2.48	0.49
1:B:1204:ARG:HD2	1:B:1210:ASN:OD1	2.13	0.49
1:C:1199:LYS:HA	1:C:1213:ILE:O	2.13	0.49
1:C:1706:LYS:NZ	1:C:1720:TRP:O	2.33	0.49
1:B:2222:LEU:CD1	1:C:2073:LYS:HD2	2.32	0.49
1:B:2447:ALA:CB	1:C:2329:LEU:HD22	2.41	0.49
1:C:2460:PHE:HB3	1:D:2464:PHE:HE2	1.78	0.49
1:C:899:GLY:O	1:C:908:GLU:HG2	2.13	0.49
1:C:1205:TYR:CD2	1:D:1068:GLN:NE2	2.81	0.49
1:D:1205:TYR:CD2	1:E:1068:GLN:NE2	2.80	0.49
1:D:2215:VAL:O	1:D:2218:GLU:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2399:ARG:HE	1:D:2410:ARG:HH11	1.58	0.49
1:E:1098:HIS:HE1	1:E:1128:HIS:CD2	2.30	0.49
1:E:2266:TYR:CZ	1:E:2297:TRP:HB2	2.48	0.49
1:D:2272:ARG:NH2	1:E:2318:GLU:HB3	2.28	0.49
1:A:1002:GLU:CG	1:B:1882:TRP:HH2	2.25	0.48
1:A:1100:ASN:OD1	1:A:1101:ILE:N	2.46	0.48
1:A:1204:ARG:HD2	1:A:1210:ASN:OD1	2.13	0.48
1:A:2073:LYS:HD2	1:E:2222:LEU:CD1	2.32	0.48
1:B:1172:LEU:HB3	1:B:1198:LEU:HB3	1.95	0.48
1:B:2266:TYR:CZ	1:B:2297:TRP:HB2	2.48	0.48
1:C:1172:LEU:HB3	1:C:1198:LEU:HB3	1.95	0.48
1:C:1646:VAL:HG22	1:C:1687:ASN:HA	1.95	0.48
1:C:2365:SER:HA	1:C:2377:PHE:CD2	2.48	0.48
1:D:1122:TYR:HB3	1:D:1144:TRP:HB3	1.95	0.48
1:D:1975:SER:HB3	1:D:1981:LEU:HD23	1.94	0.48
1:D:2272:ARG:HH22	1:E:2318:GLU:HB3	1.77	0.48
1:D:2365:SER:HA	1:D:2377:PHE:CD2	2.48	0.48
1:E:1640:GLY:HA3	1:E:1691:PHE:CZ	2.48	0.48
1:A:2044:ILE:HG21	1:E:2245:PHE:CD2	2.48	0.48
1:A:1640:GLY:HA3	1:A:1691:PHE:CZ	2.48	0.48
1:A:1676:ILE:HG13	1:A:1677:TYR:N	2.28	0.48
1:A:1750:LEU:HB3	1:A:1753:ILE:HD12	1.96	0.48
1:C:121:GLU:HA	1:C:124:ARG:HG2	1.94	0.48
1:C:2425:PRO:HA	1:C:2426:TYR:HA	1.56	0.48
1:B:2460:PHE:HB3	1:C:2464:PHE:CE2	2.48	0.48
1:D:1204:ARG:HD2	1:D:1210:ASN:OD1	2.13	0.48
1:C:1269:ILE:C	1:D:1808:HIS:HE1	2.15	0.48
1:E:1199:LYS:HA	1:E:1213:ILE:O	2.13	0.48
1:E:1204:ARG:HD2	1:E:1210:ASN:OD1	2.13	0.48
1:E:124:ARG:HH12	1:E:1913:ILE:HA	1.77	0.48
1:E:1711:PHE:H	1:E:1715:PRO:HG3	1.78	0.48
1:D:2222:LEU:CD1	1:E:2073:LYS:HD2	2.30	0.48
1:D:2183:GLU:CD	1:E:2111:GLU:HG2	2.34	0.48
1:E:2365:SER:HA	1:E:2377:PHE:CD2	2.48	0.48
1:B:1204:ARG:CZ	1:C:1072:ASP:HB2	2.42	0.48
1:B:1205:TYR:CD2	1:C:1068:GLN:NE2	2.80	0.48
1:B:2089:LYS:HA	1:B:2206:ILE:HD13	1.95	0.48
1:D:1160:PRO:HA	1:D:1169:LEU:HA	1.95	0.48
1:D:1199:LYS:HA	1:D:1213:ILE:O	2.13	0.48
1:D:1676:ILE:HG13	1:D:1677:TYR:N	2.28	0.48
1:D:1758:MET:O	1:D:1819:ARG:NH1	2.32	0.48

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1665:ILE:O	1:E:1674:HIS:HB3	2.14	0.48
1:E:1721:TRP:HA	1:E:1739:SER:OG	2.14	0.48
1:A:2073:LYS:CD	1:E:2222:LEU:HD12	2.32	0.48
1:A:2172:MET:HE2	1:B:2121:ALA:CB	2.43	0.48
1:B:1967:VAL:HA	1:B:1970:LEU:HD13	1.96	0.48
1:C:1711:PHE:H	1:C:1715:PRO:HG3	1.78	0.48
1:C:124:ARG:HH12	1:C:1913:ILE:HA	1.77	0.48
1:D:1711:PHE:H	1:D:1715:PRO:HG3	1.78	0.48
1:D:2172:MET:CE	1:E:2120:SER:C	2.82	0.48
1:E:1126:VAL:HA	1:E:1140:ALA:O	2.14	0.48
1:E:1172:LEU:HB3	1:E:1198:LEU:HB3	1.95	0.48
1:D:1269:ILE:C	1:E:1808:HIS:HE1	2.16	0.48
1:A:2448:LEU:HG	1:A:2458:GLY:H	1.79	0.47
1:B:1795:TRP:HA	1:B:1798:TYR:CD2	2.49	0.47
1:B:2016:LEU:HD11	1:C:2327:ARG:HB2	1.96	0.47
1:C:1100:ASN:OD1	1:C:1101:ILE:N	2.46	0.47
1:C:1122:TYR:HB3	1:C:1144:TRP:HB3	1.95	0.47
1:C:1783:LEU:HD23	1:C:1783:LEU:HA	1.69	0.47
1:C:2089:LYS:HA	1:C:2206:ILE:HD13	1.95	0.47
1:C:195:SER:C	1:C:952:ARG:HH22	2.17	0.47
1:D:1098:HIS:HB3	1:D:1304:ASN:HB3	1.96	0.47
1:D:1721:TRP:HA	1:D:1739:SER:OG	2.14	0.47
1:D:1050:ARG:HH12	1:D:1770:GLU:HG2	1.79	0.47
1:C:2216:ARG:CA	1:D:2077:GLU:OE1	2.62	0.47
1:D:2089:LYS:HA	1:D:2206:ILE:HD13	1.95	0.47
1:C:2460:PHE:CB	1:D:2464:PHE:HE2	2.27	0.47
1:E:1787:GLN:OE1	1:E:2011:GLU:CD	2.52	0.47
1:E:2155:GLY:O	1:E:2159:GLU:HG3	2.14	0.47
1:A:1878:GLU:OE1	1:E:1026:LYS:NZ	2.46	0.47
1:A:2253:TRP:CE2	1:B:2301:TYR:CE2	3.02	0.47
1:B:1126:VAL:HA	1:B:1140:ALA:O	2.14	0.47
1:B:1098:HIS:HB3	1:B:1304:ASN:HB3	1.96	0.47
1:A:2172:MET:HE1	1:B:2121:ALA:N	2.22	0.47
1:A:2272:ARG:HH22	1:B:2318:GLU:HB3	1.79	0.47
1:B:2459:GLN:HE22	1:B:2471:PRO:CD	2.24	0.47
1:B:195:SER:C	1:B:952:ARG:HH22	2.17	0.47
1:C:1795:TRP:HA	1:C:1798:TYR:CD2	2.49	0.47
1:B:1244:THR:HG21	1:C:1809:GLY:N	2.29	0.47
1:C:2026:ALA:O	1:C:2029:MET:HB3	2.14	0.47
1:B:2172:MET:HE1	1:C:2121:ALA:N	2.24	0.47
1:D:1132:ASN:HD21	1:D:1830:ASP:CG	2.16	0.47

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1050:ARG:HH12	1:A:1770:GLU:HG2	1.79	0.47
1:A:1172:LEU:HB3	1:A:1198:LEU:HB3	1.95	0.47
1:A:1727:ARG:HA	1:A:1733:VAL:HG22	1.96	0.47
1:A:2365:SER:HA	1:A:2377:PHE:HD2	1.79	0.47
1:B:1196:TYR:N	1:B:1218:ASN:OD1	2.41	0.47
1:B:1660:TRP:NE1	1:B:1661:PHE:O	2.47	0.47
1:B:2281:ARG:HB3	1:B:2287:ASP:HA	1.96	0.47
1:C:2253:TRP:NE1	1:D:2301:TYR:CE2	2.83	0.47
1:B:2272:ARG:NH2	1:C:2318:GLU:HB3	2.30	0.47
1:D:2464:PHE:HZ	1:D:2512:ARG:HH11	1.61	0.47
1:E:1795:TRP:HA	1:E:1798:TYR:CD2	2.49	0.47
1:E:1967:VAL:HA	1:E:1970:LEU:HD13	1.96	0.47
1:A:1235:TYR:CE2	1:A:1237:ALA:HB2	2.50	0.47
1:A:1711:PHE:H	1:A:1715:PRO:HG3	1.78	0.47
1:A:2142:PRO:HA	1:A:2143:ASN:HA	1.72	0.47
1:A:2172:MET:CE	1:B:2120:SER:C	2.81	0.47
1:A:2016:LEU:CD2	1:A:2468:LYS:HG3	2.45	0.47
1:A:999:ARG:HE	1:A:1004:VAL:HG21	1.79	0.47
1:B:1060:LEU:HD12	1:B:1081:TYR:HB2	1.96	0.47
1:B:2016:LEU:CD2	1:B:2468:LYS:HG3	2.44	0.47
1:C:1616:ARG:HD3	1:C:1629:THR:HG23	1.96	0.47
1:C:1897:PRO:O	1:C:1899:SER:OG	2.26	0.47
1:C:2075:ILE:HD12	1:C:2224:LYS:HE3	1.96	0.47
1:D:1204:ARG:CZ	1:E:1072:ASP:HB2	2.44	0.47
1:C:1270:PHE:HB3	1:D:1808:HIS:HB2	1.35	0.47
1:D:124:ARG:HH12	1:D:1913:ILE:HA	1.77	0.47
1:D:2054:ALA:O	1:D:2058:ASN:ND2	2.43	0.47
1:D:2016:LEU:CD2	1:D:2468:LYS:HG3	2.45	0.47
1:A:1795:TRP:HA	1:A:1798:TYR:CD2	2.50	0.47
1:A:2075:ILE:HD12	1:A:2224:LYS:HE3	1.96	0.47
1:A:2464:PHE:HZ	1:A:2512:ARG:HH11	1.61	0.47
1:B:1161:VAL:HG21	1:B:1245:LEU:HD11	1.96	0.47
1:B:1727:ARG:HA	1:B:1733:VAL:HG22	1.97	0.47
1:B:2075:ILE:HD12	1:B:2224:LYS:HE3	1.96	0.47
1:C:1112:GLY:N	1:C:1122:TYR:O	2.31	0.47
1:B:2187:ARG:NH1	1:C:2108:ASN:CG	2.67	0.47
1:C:2016:LEU:CD2	1:C:2468:LYS:HG3	2.44	0.47
1:C:999:ARG:HE	1:C:1004:VAL:HG21	1.80	0.47
1:D:1827:TRP:HZ3	1:D:1847:HIS:NE2	2.12	0.47
1:E:125:GLU:HG3	1:E:1017:PHE:CG	2.49	0.47
1:E:2075:ILE:HD12	1:E:2224:LYS:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2464:PHE:HZ	1:E:2512:ARG:HH11	1.61	0.47
1:A:2329:LEU:HD22	1:E:2447:ALA:CB	2.42	0.47
1:B:2155:GLY:O	1:B:2159:GLU:HG3	2.14	0.47
1:B:2460:PHE:CE2	1:C:2330:GLU:HG3	2.44	0.47
1:C:1594:GLN:HG3	1:C:1606:ASN:ND2	2.30	0.47
1:C:1967:VAL:HA	1:C:1970:LEU:HD13	1.96	0.47
1:C:2365:SER:HA	1:C:2377:PHE:HD2	1.79	0.47
1:E:1018:PHE:HA	1:E:1021:TRP:HB2	1.97	0.47
1:D:1026:LYS:NZ	1:E:1878:GLU:OE1	2.47	0.47
1:E:2026:ALA:O	1:E:2029:MET:HB3	2.14	0.47
1:E:2448:LEU:HG	1:E:2458:GLY:H	1.79	0.47
1:E:2016:LEU:CD2	1:E:2468:LYS:HG3	2.45	0.47
1:E:934:LEU:O	1:E:938:LEU:HB3	2.15	0.47
1:E:999:ARG:HE	1:E:1004:VAL:HG21	1.80	0.47
1:A:2281:ARG:HB3	1:A:2287:ASP:HA	1.96	0.47
1:A:934:LEU:O	1:A:938:LEU:HB3	2.15	0.47
1:B:125:GLU:HG3	1:B:1017:PHE:CG	2.49	0.47
1:C:125:GLU:HG3	1:C:1017:PHE:CG	2.49	0.47
1:C:1098:HIS:HB3	1:C:1304:ASN:HB3	1.96	0.47
1:C:1663:LEU:HA	1:C:1709:MET:HA	1.97	0.47
1:B:1837:PRO:HG3	1:C:1996:LEU:CD1	2.45	0.47
1:B:2245:PHE:CD2	1:C:2044:ILE:HG21	2.50	0.47
1:C:2155:GLY:O	1:C:2159:GLU:HG3	2.14	0.47
1:D:1018:PHE:HA	1:D:1021:TRP:HB2	1.97	0.47
1:D:1060:LEU:HD12	1:D:1081:TYR:HB2	1.96	0.47
1:D:195:SER:C	1:D:952:ARG:HH22	2.17	0.47
1:E:1050:ARG:NH1	1:E:1770:GLU:HG2	2.29	0.47
1:D:2460:PHE:HB3	1:E:2464:PHE:HE2	1.80	0.47
1:A:1291:TYR:HA	1:A:1294:PHE:CE2	2.50	0.47
1:A:1827:TRP:HZ3	1:A:1847:HIS:NE2	2.12	0.47
1:B:1893:LYS:HB2	1:B:1960:TRP:CD1	2.49	0.47
1:B:2434:SER:HB3	1:B:2483:THR:CG2	2.45	0.47
1:B:999:ARG:HE	1:B:1004:VAL:HG21	1.79	0.47
1:D:1795:TRP:HA	1:D:1798:TYR:CD2	2.50	0.47
1:E:1161:VAL:HG21	1:E:1245:LEU:HD11	1.96	0.47
1:E:1098:HIS:HB3	1:E:1304:ASN:HB3	1.96	0.47
1:E:1660:TRP:HD1	1:E:1661:PHE:CA	2.25	0.47
1:E:1660:TRP:NE1	1:E:1661:PHE:O	2.47	0.47
1:D:1002:GLU:OE1	1:E:1885:GLN:OE1	2.32	0.47
1:A:1660:TRP:NE1	1:A:1661:PHE:O	2.47	0.47
1:A:2077:GLU:OE1	1:E:2216:ARG:CA	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2500:MET:O	1:A:2503:THR:N	2.48	0.47
1:B:2016:LEU:HD12	1:C:2327:ARG:HB2	1.96	0.47
1:C:1060:LEU:HD12	1:C:1081:TYR:HB2	1.96	0.47
1:C:1204:ARG:CZ	1:D:1072:ASP:HB2	2.44	0.47
1:C:1834:SER:O	1:C:1835:VAL:HG12	2.15	0.47
1:D:1235:TYR:CE2	1:D:1237:ALA:HB2	2.50	0.47
1:D:1975:SER:OG	1:D:1979:GLN:O	2.33	0.47
1:D:2253:TRP:NE1	1:E:2301:TYR:CE2	2.83	0.47
1:D:2434:SER:HB3	1:D:2483:THR:CG2	2.45	0.47
1:E:1897:PRO:O	1:E:1899:SER:OG	2.26	0.47
1:A:1026:LYS:HZ3	1:B:1878:GLU:CD	2.17	0.46
1:A:1808:HIS:HE1	1:E:1269:ILE:C	2.18	0.46
1:B:1736:ASN:HB3	1:B:1738:LYS:HZ1	1.79	0.46
1:B:934:LEU:O	1:B:938:LEU:HB3	2.15	0.46
1:C:934:LEU:O	1:C:938:LEU:HB3	2.15	0.46
1:D:2183:GLU:OE2	1:E:2111:GLU:CD	2.52	0.46
1:D:999:ARG:HE	1:D:1004:VAL:HG21	1.80	0.46
1:D:2253:TRP:CE2	1:E:2301:TYR:CD2	3.03	0.46
1:A:1060:LEU:HD12	1:A:1081:TYR:HB2	1.96	0.46
1:A:1107:LEU:HD23	1:A:1109:TYR:HE1	1.81	0.46
1:A:195:SER:C	1:A:952:ARG:HH22	2.17	0.46
1:A:1967:VAL:O	1:A:1970:LEU:N	2.49	0.46
1:A:2263:PHE:O	1:A:2266:TYR:HB3	2.16	0.46
1:A:2318:GLU:HB3	1:E:2272:ARG:HH22	1.80	0.46
1:A:2434:SER:HB3	1:A:2483:THR:CG2	2.45	0.46
1:A:2430:GLN:N	1:A:2497:GLN:HE22	2.13	0.46
1:A:1204:ARG:CZ	1:B:1072:ASP:HB2	2.45	0.46
1:B:1291:TYR:HA	1:B:1294:PHE:CE2	2.50	0.46
1:B:1588:HIS:HD2	1:B:1594:GLN:HG2	1.79	0.46
1:C:1235:TYR:CE2	1:C:1237:ALA:HB2	2.50	0.46
1:D:1594:GLN:HG3	1:D:1606:ASN:ND2	2.30	0.46
1:D:1651:ASN:C	1:D:1653:SER:H	2.19	0.46
1:D:1660:TRP:HD1	1:D:1661:PHE:CA	2.25	0.46
1:D:2172:MET:HE2	1:E:2121:ALA:CB	2.44	0.46
1:E:1286:TYR:O	1:E:1290:SER:CB	2.63	0.46
1:E:1050:ARG:HH12	1:E:1770:GLU:HG2	1.79	0.46
1:B:1594:GLN:HG3	1:B:1606:ASN:ND2	2.30	0.46
1:B:2026:ALA:O	1:B:2029:MET:HB3	2.14	0.46
1:B:2263:PHE:O	1:B:2266:TYR:HB3	2.16	0.46
1:C:2183:GLU:OE2	1:D:2111:GLU:CD	2.53	0.46
1:C:918:ALA:O	1:C:922:LEU:HG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:981:ILE:HD12	1:D:1973:ASN:HB2	1.96	0.46
1:D:1727:ARG:HA	1:D:1733:VAL:HG22	1.96	0.46
1:D:1836:ASP:HB3	1:D:1839:ALA:HB3	1.98	0.46
1:D:918:ALA:O	1:D:922:LEU:HG	2.16	0.46
1:D:934:LEU:O	1:D:938:LEU:CB	2.64	0.46
1:A:2124:LEU:HD21	1:E:2166:GLU:HA	1.98	0.46
1:E:2399:ARG:HH22	1:E:2408:LYS:HD2	1.80	0.46
1:E:2500:MET:O	1:E:2503:THR:N	2.48	0.46
1:A:125:GLU:HG3	1:A:1017:PHE:CG	2.49	0.46
1:A:2471:PRO:HG3	1:B:2327:ARG:NE	2.28	0.46
1:B:1235:TYR:CE2	1:B:1237:ALA:HB2	2.50	0.46
1:B:1286:TYR:O	1:B:1290:SER:CB	2.63	0.46
1:B:2172:MET:HG2	1:C:2117:LEU:CG	2.30	0.46
1:B:2183:GLU:OE2	1:C:2111:GLU:CD	2.54	0.46
1:A:2253:TRP:NE1	1:B:2301:TYR:CE2	2.84	0.46
1:A:2272:ARG:NH2	1:B:2318:GLU:HB3	2.29	0.46
1:B:2500:MET:O	1:B:2503:THR:N	2.48	0.46
1:C:118:TYR:OH	1:C:1025:ASN:O	2.27	0.46
1:C:1088:VAL:HG13	1:C:1144:TRP:CD1	2.51	0.46
1:C:1302:VAL:CG1	1:C:1584:LEU:HG	2.46	0.46
1:C:2172:MET:HE2	1:D:2121:ALA:CB	2.44	0.46
1:C:2187:ARG:NH1	1:D:2108:ASN:OD1	2.48	0.46
1:D:1967:VAL:HA	1:D:1970:LEU:HD13	1.96	0.46
1:D:2399:ARG:HH22	1:D:2408:LYS:HD2	1.80	0.46
1:D:2500:MET:O	1:D:2503:THR:N	2.48	0.46
1:D:968:TYR:HD1	1:D:973:ILE:C	2.19	0.46
1:D:995:LEU:CD1	1:E:1881:MET:HB3	2.46	0.46
1:E:1107:LEU:HD23	1:E:1109:TYR:HE1	1.81	0.46
1:A:1808:HIS:HB2	1:E:1270:PHE:HB3	1.35	0.46
1:E:2434:SER:HB3	1:E:2483:THR:CG2	2.45	0.46
1:A:1018:PHE:HA	1:A:1021:TRP:HB2	1.97	0.46
1:A:1021:TRP:HA	1:A:1025:ASN:HB2	1.98	0.46
1:A:1026:LYS:NZ	1:B:1878:GLU:OE1	2.49	0.46
1:A:1651:ASN:C	1:A:1653:SER:H	2.19	0.46
1:A:2399:ARG:HH22	1:A:2408:LYS:HD2	1.80	0.46
1:B:1827:TRP:HZ3	1:B:1847:HIS:NE2	2.12	0.46
1:B:2399:ARG:HH22	1:B:2408:LYS:HD2	1.80	0.46
1:B:2430:GLN:N	1:B:2497:GLN:HE22	2.13	0.46
1:C:1002:GLU:OE1	1:D:1885:GLN:OE1	2.32	0.46
1:C:1055:LYS:O	1:C:1058:ASP:N	2.49	0.46
1:C:1088:VAL:CG1	1:C:1144:TRP:HD1	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1291:TYR:HA	1:C:1294:PHE:CE2	2.50	0.46
1:C:1588:HIS:HD2	1:C:1594:GLN:HG2	1.79	0.46
1:C:934:LEU:O	1:C:938:LEU:CB	2.64	0.46
1:D:1107:LEU:HD23	1:D:1109:TYR:HE1	1.81	0.46
1:C:1269:ILE:C	1:D:1808:HIS:CE1	2.86	0.46
1:D:2142:PRO:HA	1:D:2143:ASN:HA	1.72	0.46
1:E:1021:TRP:HA	1:E:1025:ASN:HB2	1.98	0.46
1:E:1291:TYR:HA	1:E:1294:PHE:CE2	2.50	0.46
1:E:1836:ASP:HB3	1:E:1839:ALA:HB3	1.98	0.46
1:A:2108:ASN:OD1	1:E:2187:ARG:NH1	2.49	0.46
1:D:2460:PHE:CB	1:E:2464:PHE:HE2	2.28	0.46
1:E:2430:GLN:N	1:E:2497:GLN:HE22	2.13	0.46
1:E:968:TYR:HD1	1:E:973:ILE:C	2.19	0.46
1:A:1726:VAL:O	1:A:1733:VAL:HG13	2.16	0.46
1:A:2154:TRP:O	1:A:2158:ALA:HB3	2.16	0.46
1:B:2468:LYS:CD	1:C:2327:ARG:HH11	2.24	0.46
1:C:1044:TYR:CE1	1:D:1992:PRO:HB2	2.51	0.46
1:C:1837:PRO:HG3	1:D:1996:LEU:CD1	2.46	0.46
1:C:1827:TRP:HZ3	1:C:1847:HIS:NE2	2.12	0.46
1:D:1021:TRP:HA	1:D:1025:ASN:HB2	1.98	0.46
1:D:1055:LYS:O	1:D:1058:ASP:N	2.49	0.46
1:D:1088:VAL:HG13	1:D:1144:TRP:CD1	2.51	0.46
1:D:1301:ARG:HA	1:D:1584:LEU:O	2.16	0.46
1:D:2468:LYS:CD	1:E:2327:ARG:HH11	2.28	0.46
1:E:1235:TYR:CE2	1:E:1237:ALA:HB2	2.50	0.46
1:E:1660:TRP:CH2	1:E:1680:GLN:HB3	2.36	0.46
1:E:1834:SER:O	1:E:1835:VAL:HG12	2.15	0.46
1:D:2201:ALA:CB	1:E:2091:GLY:HA3	2.46	0.46
1:D:2187:ARG:NH1	1:E:2108:ASN:OD1	2.49	0.46
1:A:2117:LEU:O	1:E:2172:MET:HE3	2.15	0.46
1:E:986:ILE:O	1:E:990:ILE:HG13	2.16	0.46
1:A:1055:LYS:H	1:A:1143:GLU:CD	2.19	0.46
1:A:1588:HIS:HD2	1:A:1594:GLN:HG2	1.79	0.46
1:A:1682:THR:HG22	1:A:1683:ASP:N	2.31	0.46
1:A:2447:ALA:CB	1:B:2329:LEU:HD22	2.42	0.46
1:A:918:ALA:O	1:A:922:LEU:HG	2.16	0.46
1:A:934:LEU:O	1:A:938:LEU:CB	2.64	0.46
1:B:1055:LYS:O	1:B:1058:ASP:N	2.49	0.46
1:B:1088:VAL:HG13	1:B:1144:TRP:CD1	2.51	0.46
1:B:1107:LEU:HD23	1:B:1109:TYR:HE1	1.81	0.46
1:B:1594:GLN:H	1:B:1606:ASN:CG	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1651:ASN:C	1:B:1653:SER:H	2.19	0.46
1:B:1663:LEU:HA	1:B:1709:MET:HA	1.97	0.46
1:B:1967:VAL:O	1:B:1970:LEU:N	2.49	0.46
1:A:2253:TRP:CE2	1:B:2301:TYR:CD2	3.03	0.46
1:C:1103:ASN:ND2	1:C:1598:TRP:CG	2.76	0.46
1:C:1727:ARG:HA	1:C:1733:VAL:HG22	1.97	0.46
1:C:1868:TYR:CE1	1:C:1970:LEU:HG	2.47	0.46
1:B:2183:GLU:CD	1:C:2111:GLU:HG2	2.36	0.46
1:D:1044:TYR:CE2	1:E:1992:PRO:HB3	2.51	0.46
1:D:1663:LEU:HA	1:D:1709:MET:HA	1.96	0.46
1:D:2166:GLU:HA	1:E:2124:LEU:HD21	1.98	0.46
1:E:1594:GLN:HG3	1:E:1606:ASN:ND2	2.30	0.46
1:A:2318:GLU:HB3	1:E:2272:ARG:NH2	2.30	0.46
1:E:2452:HIS:HD2	1:E:2454:MET:O	1.98	0.46
1:A:1286:TYR:O	1:A:1290:SER:CB	2.63	0.46
1:A:1594:GLN:H	1:A:1606:ASN:CG	2.19	0.46
1:A:1664:TYR:HB2	1:A:1708:TYR:HB2	1.98	0.46
1:A:1758:MET:O	1:A:1819:ARG:NH1	2.32	0.46
1:A:2452:HIS:HD2	1:A:2454:MET:O	1.99	0.46
1:B:1057:MET:HE2	1:B:1770:GLU:HB3	1.98	0.46
1:A:2166:GLU:HA	1:B:2124:LEU:HD21	1.97	0.46
1:B:2172:MET:CE	1:C:2120:SER:C	2.83	0.46
1:C:1018:PHE:HA	1:C:1021:TRP:HB2	1.97	0.46
1:C:1196:TYR:N	1:C:1218:ASN:OD1	2.41	0.46
1:C:1660:TRP:NE1	1:C:1661:PHE:O	2.47	0.46
1:C:1758:MET:O	1:C:1819:ARG:NH1	2.32	0.46
1:B:2253:TRP:CE2	1:C:2301:TYR:CE2	3.03	0.46
1:C:2430:GLN:N	1:C:2497:GLN:HE22	2.13	0.46
1:C:1242:GLU:HA	1:D:1806:ILE:HG23	1.98	0.46
1:D:1957:MET:HA	1:D:1960:TRP:HE3	1.81	0.46
1:D:2154:TRP:O	1:D:2158:ALA:HB3	2.16	0.46
1:D:2169:ALA:CB	1:E:2124:LEU:HD11	2.27	0.46
1:D:2430:GLN:N	1:D:2497:GLN:HE22	2.13	0.46
1:E:1057:MET:HE2	1:E:1770:GLU:HB3	1.97	0.46
1:D:1242:GLU:CA	1:E:1806:ILE:HG23	2.46	0.46
1:E:214:GLN:O	1:E:215:ASP:C	2.54	0.46
1:A:1885:GLN:OE1	1:E:1002:GLU:OE1	2.34	0.46
1:A:2468:LYS:CD	1:B:2327:ARG:HH11	2.28	0.46
1:A:968:TYR:HD1	1:A:973:ILE:C	2.19	0.46
1:B:2272:ARG:HH22	1:C:2318:GLU:HB3	1.81	0.46
1:C:1664:TYR:HB2	1:C:1708:TYR:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1269:ILE:C	1:C:1808:HIS:HE1	2.18	0.46
1:C:2500:MET:O	1:C:2503:THR:N	2.48	0.46
1:D:1088:VAL:CG1	1:D:1144:TRP:HD1	2.29	0.46
1:D:1286:TYR:O	1:D:1290:SER:CB	2.63	0.46
1:D:1291:TYR:HA	1:D:1294:PHE:CE2	2.50	0.46
1:D:2304:LEU:HD23	1:D:2304:LEU:HA	1.81	0.46
1:C:2471:PRO:CG	1:D:2327:ARG:HE	2.26	0.46
1:E:1060:LEU:HD12	1:E:1081:TYR:HB2	1.96	0.46
1:E:1081:TYR:HD2	1:E:1771:LEU:HD12	1.81	0.46
1:A:1055:LYS:O	1:A:1058:ASP:N	2.49	0.46
1:A:1301:ARG:HA	1:A:1584:LEU:O	2.16	0.46
1:A:1836:ASP:HB3	1:A:1839:ALA:HB3	1.98	0.46
1:B:1055:LYS:H	1:B:1143:GLU:CD	2.19	0.46
1:B:1302:VAL:CG1	1:B:1584:LEU:HG	2.46	0.46
1:B:2452:HIS:HD2	1:B:2454:MET:O	1.99	0.46
1:C:1301:ARG:HA	1:C:1584:LEU:O	2.16	0.46
1:C:968:TYR:HD1	1:C:973:ILE:C	2.19	0.46
1:D:1203:ILE:HG13	1:D:1209:TRP:CZ3	2.51	0.46
1:D:1682:THR:HG22	1:D:1683:ASP:N	2.31	0.46
1:D:1726:VAL:O	1:D:1733:VAL:HG13	2.16	0.46
1:D:2264:GLN:OE1	1:E:2312:LEU:HD21	2.16	0.46
1:D:986:ILE:O	1:D:990:ILE:HG13	2.16	0.46
1:E:1088:VAL:HG13	1:E:1144:TRP:CD1	2.51	0.46
1:E:1302:VAL:CG1	1:E:1584:LEU:HG	2.46	0.46
1:E:1301:ARG:HA	1:E:1584:LEU:O	2.16	0.46
1:E:1651:ASN:C	1:E:1653:SER:H	2.19	0.46
1:E:1726:VAL:O	1:E:1733:VAL:HG13	2.16	0.46
1:E:1957:MET:HA	1:E:1960:TRP:HE3	1.81	0.46
1:E:2263:PHE:O	1:E:2266:TYR:HB3	2.16	0.46
1:E:918:ALA:O	1:E:922:LEU:HG	2.16	0.46
1:E:934:LEU:O	1:E:938:LEU:CB	2.64	0.46
1:A:1060:LEU:O	1:A:1064:VAL:HG12	2.16	0.45
1:B:1580:THR:HG21	1:B:1599:GLN:HE22	1.81	0.45
1:B:1682:THR:HG22	1:B:1683:ASP:N	2.31	0.45
1:B:1664:TYR:HB2	1:B:1708:TYR:HB2	1.98	0.45
1:B:1957:MET:HA	1:B:1960:TRP:HE3	1.81	0.45
1:B:2377:PHE:HE1	1:B:2387:LEU:HB2	1.81	0.45
1:B:961:ILE:HG23	1:B:962:LYS:N	2.31	0.45
1:B:986:ILE:O	1:B:990:ILE:HG13	2.16	0.45
1:C:2399:ARG:HH22	1:C:2408:LYS:HD2	1.81	0.45
1:D:1060:LEU:O	1:D:1064:VAL:HG12	2.16	0.45

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1594:GLN:HG3	1:A:1606:ASN:ND2	2.30	0.45
1:A:2327:ARG:HB2	1:E:2016:LEU:HD11	1.97	0.45
1:A:2377:PHE:HE1	1:A:2387:LEU:HB2	1.81	0.45
1:B:934:LEU:O	1:B:938:LEU:CB	2.64	0.45
1:B:160:SER:HA	1:B:982:LYS:HD2	1.99	0.45
1:C:1735:ILE:HD11	1:C:1741:LEU:HD11	1.98	0.45
1:C:1825:THR:HG22	1:C:1849:LYS:NZ	2.32	0.45
1:D:1270:PHE:HB3	1:E:1808:HIS:HB2	1.35	0.45
1:A:1623:THR:CA	1:E:1272:ASP:CG	2.43	0.45
1:E:1825:THR:HG22	1:E:1849:LYS:NZ	2.32	0.45
1:D:2013:PHE:CE1	1:E:2323:LYS:HG2	2.50	0.45
1:A:1302:VAL:CG1	1:A:1584:LEU:HG	2.46	0.45
1:A:210:VAL:O	1:A:213:LEU:CB	2.65	0.45
1:A:961:ILE:HG23	1:A:962:LYS:N	2.31	0.45
1:A:160:SER:HA	1:A:982:LYS:HD2	1.99	0.45
1:B:1825:THR:HG22	1:B:1849:LYS:NZ	2.32	0.45
1:B:2096:PHE:CE1	1:B:2200:GLU:HB2	2.52	0.45
1:B:2360:LEU:HD22	1:B:2375:LEU:CD2	2.47	0.45
1:C:1021:TRP:HA	1:C:1025:ASN:HB2	1.98	0.45
1:C:1060:LEU:O	1:C:1064:VAL:HG12	2.16	0.45
1:C:1242:GLU:CA	1:D:1806:ILE:HG23	2.47	0.45
1:C:1286:TYR:O	1:C:1290:SER:CB	2.63	0.45
1:C:1841:ALA:O	1:C:1843:HIS:N	2.44	0.45
1:C:1975:SER:OG	1:C:1979:GLN:O	2.33	0.45
1:B:2166:GLU:HA	1:C:2124:LEU:HD21	1.97	0.45
1:C:2154:TRP:O	1:C:2158:ALA:HB3	2.16	0.45
1:C:2166:GLU:HA	1:D:2124:LEU:HD21	1.98	0.45
1:C:2383:THR:CG2	1:D:2403:PRO:HB3	2.46	0.45
1:D:2452:HIS:HD2	1:D:2454:MET:O	1.99	0.45
1:D:933:THR:O	1:D:936:ALA:HB3	2.16	0.45
1:E:1055:LYS:H	1:E:1143:GLU:CD	2.19	0.45
1:E:1594:GLN:H	1:E:1606:ASN:CG	2.19	0.45
1:E:1664:TYR:HE1	1:E:1710:THR:HG1	1.60	0.45
1:D:1242:GLU:HA	1:E:1806:ILE:HG23	1.99	0.45
1:D:1032:ALA:CB	1:E:1989:PRO:HB3	2.46	0.45
1:A:2111:GLU:HG2	1:E:2183:GLU:CD	2.37	0.45
1:E:2358:ASP:O	1:E:2362:SER:OG	2.22	0.45
1:E:2377:PHE:HE1	1:E:2387:LEU:HB2	1.81	0.45
1:A:1088:VAL:CG1	1:A:1144:TRP:HD1	2.29	0.45
1:A:1580:THR:HG21	1:A:1599:GLN:HE22	1.81	0.45
1:A:1973:ASN:HB2	1:E:981:ILE:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1989:PRO:HB3	1:E:1032:ALA:CB	2.45	0.45
1:B:1021:TRP:HA	1:B:1025:ASN:HB2	1.98	0.45
1:B:1642:TYR:OH	1:B:1689:THR:OG1	2.34	0.45
1:A:995:LEU:CD1	1:B:1881:MET:HB3	2.46	0.45
1:A:1002:GLU:OE1	1:B:1885:GLN:OE1	2.35	0.45
1:B:1963:LEU:HD23	1:B:1963:LEU:HA	1.78	0.45
1:C:2071:GLN:O	1:C:2074:THR:HG22	2.17	0.45
1:C:2452:HIS:HD2	1:C:2454:MET:O	1.99	0.45
1:C:2460:PHE:CB	1:D:2464:PHE:CE2	2.99	0.45
1:C:2016:LEU:HD21	1:C:2468:LYS:NZ	2.32	0.45
1:D:1825:THR:HG22	1:D:1849:LYS:NZ	2.32	0.45
1:C:2016:LEU:HD12	1:D:2327:ARG:HB2	1.98	0.45
1:D:2348:ASN:CB	1:D:2370:SER:HB2	2.47	0.45
1:D:2377:PHE:HE1	1:D:2387:LEU:HB2	1.81	0.45
1:D:961:ILE:HG23	1:D:962:LYS:N	2.31	0.45
1:E:1664:TYR:HB2	1:E:1708:TYR:HB2	1.98	0.45
1:E:961:ILE:HG23	1:E:962:LYS:N	2.31	0.45
1:A:2071:GLN:O	1:A:2074:THR:HG22	2.17	0.45
1:A:933:THR:O	1:A:936:ALA:HB3	2.16	0.45
1:A:2201:ALA:CB	1:B:2091:GLY:HA3	2.45	0.45
1:B:210:VAL:O	1:B:213:LEU:CB	2.65	0.45
1:C:1055:LYS:H	1:C:1143:GLU:CD	2.20	0.45
1:C:1594:GLN:H	1:C:1606:ASN:CG	2.19	0.45
1:C:1841:ALA:C	1:C:1843:HIS:N	2.70	0.45
1:C:1957:MET:HA	1:C:1960:TRP:HE3	1.81	0.45
1:C:2438:LYS:HE3	1:C:2438:LYS:HB2	1.83	0.45
1:C:902:TYR:CB	1:C:907:LYS:NZ	2.80	0.45
1:C:933:THR:O	1:C:936:ALA:HB3	2.16	0.45
1:C:961:ILE:HG23	1:C:962:LYS:N	2.31	0.45
1:D:1044:TYR:CE1	1:E:1992:PRO:HB2	2.51	0.45
1:D:1580:THR:HG21	1:D:1599:GLN:HE22	1.81	0.45
1:D:160:SER:HA	1:D:982:LYS:HD2	1.99	0.45
1:E:1580:THR:HG21	1:E:1599:GLN:HE22	1.81	0.45
1:E:1735:ILE:HD11	1:E:1741:LEU:HD11	1.98	0.45
1:E:210:VAL:O	1:E:213:LEU:CB	2.65	0.45
1:E:2360:LEU:HD22	1:E:2375:LEU:CD2	2.47	0.45
1:E:2418:THR:HG22	1:E:2420:PRO:HD3	1.99	0.45
1:A:1760:PHE:CD2	1:A:1820:PRO:CG	3.00	0.45
1:B:1038:VAL:O	1:B:1041:PRO:HD3	2.16	0.45
1:B:1664:TYR:CD2	1:B:1673:SER:HB3	2.52	0.45
1:B:1836:ASP:HB3	1:B:1839:ALA:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2085:LEU:HD12	1:B:2213:LEU:HD12	1.99	0.45
1:B:2282:TRP:CH2	1:B:2440:GLY:HA3	2.52	0.45
1:C:1203:ILE:HG13	1:C:1209:TRP:CZ3	2.51	0.45
1:C:1833:ASP:OD1	1:C:1834:SER:N	2.49	0.45
1:C:2142:PRO:HA	1:C:2143:ASN:HA	1.72	0.45
1:C:2085:LEU:HD12	1:C:2213:LEU:HD12	1.99	0.45
1:C:2263:PHE:O	1:C:2266:TYR:HB3	2.15	0.45
1:B:2013:PHE:CE1	1:C:2323:LYS:HG2	2.50	0.45
1:C:986:ILE:O	1:C:990:ILE:HG13	2.16	0.45
1:D:1664:TYR:HB2	1:D:1708:TYR:HB2	1.98	0.45
1:D:1783:LEU:HA	1:D:1783:LEU:HD23	1.69	0.45
1:C:1026:LYS:NZ	1:D:1878:GLU:OE1	2.49	0.45
1:E:1841:ALA:C	1:E:1843:HIS:N	2.70	0.45
1:E:2071:GLN:O	1:E:2074:THR:HG22	2.17	0.45
1:A:2121:ALA:CA	1:E:2172:MET:HE3	2.33	0.45
1:E:2016:LEU:HD21	1:E:2468:LYS:NZ	2.32	0.45
1:A:1735:ILE:HD11	1:A:1741:LEU:HD11	1.98	0.45
1:A:2096:PHE:CE1	1:A:2200:GLU:HB2	2.52	0.45
1:A:2360:LEU:HD22	1:A:2375:LEU:CD2	2.47	0.45
1:A:2282:TRP:CH2	1:A:2440:GLY:HA3	2.52	0.45
1:B:1040:TYR:CZ	1:B:1953:ASN:HB2	2.52	0.45
1:B:1081:TYR:HD2	1:B:1771:LEU:HD12	1.81	0.45
1:B:1841:ALA:O	1:B:1843:HIS:N	2.44	0.45
1:B:2154:TRP:O	1:B:2158:ALA:HB3	2.16	0.45
1:B:2184:THR:O	1:B:2188:ARG:HG2	2.17	0.45
1:B:933:THR:O	1:B:936:ALA:HB3	2.16	0.45
1:C:1580:THR:HG21	1:C:1599:GLN:HE22	1.81	0.45
1:C:93:ASN:OD1	1:C:1894:PRO:HB3	2.17	0.45
1:D:1735:ILE:HD11	1:D:1741:LEU:HD11	1.98	0.45
1:D:214:GLN:O	1:D:215:ASP:C	2.54	0.45
1:D:2383:THR:HG23	1:E:2403:PRO:HB3	1.99	0.45
1:A:2124:LEU:HG	1:E:2165:MET:CG	2.47	0.45
1:A:1736:ASN:HB3	1:A:1738:LYS:HZ1	1.82	0.45
1:A:2016:LEU:HD11	1:B:2327:ARG:HB2	1.99	0.45
1:A:986:ILE:O	1:A:990:ILE:HG13	2.16	0.45
1:B:1060:LEU:O	1:B:1064:VAL:HG12	2.16	0.45
1:B:1841:ALA:C	1:B:1843:HIS:N	2.70	0.45
1:B:2016:LEU:HD21	1:B:2468:LYS:NZ	2.32	0.45
1:B:902:TYR:CB	1:B:907:LYS:NZ	2.80	0.45
1:B:968:TYR:HD1	1:B:973:ILE:C	2.19	0.45
1:C:1040:TYR:CZ	1:C:1953:ASN:HB2	2.52	0.45

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2282:TRP:CH2	1:D:2440:GLY:HA3	2.52	0.44
1:E:1783:LEU:HA	1:E:1783:LEU:HD23	1.69	0.44
1:E:93:ASN:OD1	1:E:1894:PRO:HB3	2.17	0.44
1:D:2383:THR:CG2	1:E:2403:PRO:HB3	2.47	0.44
1:E:902:TYR:CB	1:E:907:LYS:NZ	2.80	0.44
1:A:1040:TYR:CZ	1:A:1953:ASN:HB2	2.52	0.44
1:A:1648:PRO:CD	1:A:1745:GLU:HG3	2.45	0.44
1:A:2418:THR:HG22	1:A:2420:PRO:HD3	1.99	0.44
1:A:902:TYR:CB	1:A:907:LYS:NZ	2.80	0.44
1:B:93:ASN:OD1	1:B:1894:PRO:HB3	2.17	0.44
1:B:2103:TYR:CD2	1:B:2104:ASP:OD1	2.70	0.44
1:B:2348:ASN:CB	1:B:2370:SER:HB2	2.47	0.44
1:A:2460:PHE:HB3	1:B:2464:PHE:HE2	1.81	0.44
1:C:1204:ARG:HH21	1:C:1210:ASN:HD21	1.62	0.44
1:C:1250:TYR:OH	1:C:1294:PHE:HB2	2.18	0.44
1:C:2184:THR:O	1:C:2188:ARG:HG2	2.17	0.44
1:C:2304:LEU:HD23	1:C:2304:LEU:HA	1.81	0.44
1:C:2418:THR:HG22	1:C:2420:PRO:HD3	1.99	0.44
1:D:1055:LYS:H	1:D:1143:GLU:CD	2.20	0.44
1:D:2099:TYR:CE2	1:D:2195:GLN:HG3	2.53	0.44
1:D:2385:THR:HG23	1:D:2490:SER:HB3	1.99	0.44
1:E:1203:ILE:HG13	1:E:1209:TRP:CZ3	2.51	0.44
1:A:1806:ILE:HG23	1:E:1242:GLU:HA	1.99	0.44
1:A:1740:ILE:O	1:A:1741:LEU:HB2	2.18	0.44
1:A:1841:ALA:HB1	1:A:1848:TYR:CE2	2.52	0.44
1:A:2236:SER:OG	1:B:2059:GLN:NE2	2.50	0.44
1:A:2460:PHE:CB	1:B:2464:PHE:HE2	2.30	0.44
1:B:2165:MET:CG	1:C:2124:LEU:HG	2.48	0.44
1:B:2099:TYR:CE2	1:B:2195:GLN:HG3	2.52	0.44
1:B:2399:ARG:HH21	1:B:2410:ARG:NH1	2.16	0.44
1:C:1002:GLU:CG	1:D:1882:TRP:HH2	2.27	0.44
1:C:1107:LEU:HD23	1:C:1109:TYR:HE1	1.81	0.44
1:C:210:VAL:O	1:C:213:LEU:CB	2.65	0.44
1:C:2202:GLU:O	1:C:2205:GLN:HB3	2.18	0.44
1:D:1706:LYS:HD2	1:D:1721:TRP:O	2.18	0.44
1:D:2085:LEU:HD12	1:D:2213:LEU:HD12	1.99	0.44
1:D:2103:TYR:CD2	1:D:2104:ASP:OD1	2.70	0.44
1:D:2438:LYS:HB2	1:D:2438:LYS:HE3	1.83	0.44
1:E:1040:TYR:CZ	1:E:1953:ASN:HB2	2.52	0.44
1:E:1060:LEU:O	1:E:1064:VAL:HG12	2.16	0.44
1:E:2184:THR:O	1:E:2188:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2348:ASN:CB	1:E:2370:SER:HB2	2.47	0.44
1:D:2460:PHE:CB	1:E:2464:PHE:CE2	3.00	0.44
1:A:1881:MET:HB3	1:E:995:LEU:CD1	2.47	0.44
1:A:1706:LYS:HD2	1:A:1721:TRP:O	2.18	0.44
1:A:1841:ALA:O	1:A:1843:HIS:N	2.44	0.44
1:A:93:ASN:OD1	1:A:1894:PRO:HB3	2.17	0.44
1:B:1092:LYS:HA	1:B:1594:GLN:NE2	2.24	0.44
1:B:1203:ILE:HG13	1:B:1209:TRP:CZ3	2.51	0.44
1:B:1301:ARG:HA	1:B:1584:LEU:O	2.16	0.44
1:B:1833:ASP:OD1	1:B:1834:SER:N	2.49	0.44
1:B:2071:GLN:O	1:B:2074:THR:HG22	2.17	0.44
1:B:999:ARG:HE	1:B:1004:VAL:CG2	2.31	0.44
1:C:1723:PRO:HD3	1:C:1744:PHE:CE2	2.52	0.44
1:C:2103:TYR:CD2	1:C:2104:ASP:OD1	2.70	0.44
1:C:2222:LEU:HD11	1:D:2073:LYS:HE3	1.98	0.44
1:C:2399:ARG:HH21	1:C:2410:ARG:NH1	2.16	0.44
1:C:969:GLN:HB3	1:C:999:ARG:HH12	1.83	0.44
1:D:2096:PHE:CE1	1:D:2200:GLU:HB2	2.52	0.44
1:D:2202:GLU:O	1:D:2205:GLN:HB3	2.18	0.44
1:D:969:GLN:HB3	1:D:999:ARG:HH12	1.83	0.44
1:E:159:LEU:HD12	1:E:164:LEU:HD21	2.00	0.44
1:E:2103:TYR:O	1:E:2104:ASP:HB2	2.18	0.44
1:E:2154:TRP:O	1:E:2158:ALA:HB3	2.16	0.44
1:E:2202:GLU:O	1:E:2205:GLN:HB3	2.18	0.44
1:A:159:LEU:HD12	1:A:164:LEU:HD21	2.00	0.44
1:A:2348:ASN:CB	1:A:2370:SER:HB2	2.47	0.44
1:A:2500:MET:HG3	1:A:2501:LEU:N	2.32	0.44
1:A:969:GLN:HB3	1:A:999:ARG:HH12	1.83	0.44
1:B:159:LEU:HD12	1:B:164:LEU:HD21	2.00	0.44
1:B:1897:PRO:O	1:B:1899:SER:OG	2.26	0.44
1:B:1974:LEU:O	1:B:1975:SER:OG	2.32	0.44
1:C:1092:LYS:HA	1:C:1594:GLN:NE2	2.24	0.44
1:C:1664:TYR:CD2	1:C:1673:SER:HB3	2.52	0.44
1:C:1963:LEU:HA	1:C:1963:LEU:HD23	1.79	0.44
1:B:2169:ALA:CB	1:C:2124:LEU:CG	2.38	0.44
1:C:2312:LEU:HD12	1:C:2312:LEU:HA	1.74	0.44
1:D:1967:VAL:O	1:D:1970:LEU:N	2.49	0.44
1:D:2016:LEU:HD11	1:E:2327:ARG:HB2	2.00	0.44
1:D:210:VAL:O	1:D:213:LEU:CB	2.65	0.44
1:D:2425:PRO:HA	1:D:2426:TYR:HA	1.56	0.44
1:D:2016:LEU:HD21	1:D:2468:LYS:NZ	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1760:PHE:CD2	1:E:1820:PRO:CG	3.00	0.44
1:E:2096:PHE:CE1	1:E:2200:GLU:HB2	2.52	0.44
1:A:2312:LEU:HD21	1:E:2264:GLN:OE1	2.17	0.44
1:A:2103:TYR:O	1:A:2104:ASP:HB2	2.18	0.44
1:A:2464:PHE:HE2	1:E:2460:PHE:CB	2.31	0.44
1:A:2464:PHE:HE2	1:E:2460:PHE:HB3	1.83	0.44
1:A:2385:THR:HG23	1:A:2490:SER:HB3	1.99	0.44
1:A:977:VAL:HG12	1:A:978:SER:O	2.18	0.44
1:B:129:LEU:HA	1:B:129:LEU:HD23	1.84	0.44
1:B:1598:TRP:CG	1:B:1599:GLN:N	2.86	0.44
1:B:1735:ILE:HD11	1:B:1741:LEU:HD11	1.98	0.44
1:B:2385:THR:HG23	1:B:2490:SER:HB3	1.99	0.44
1:C:159:LEU:O	1:C:983:THR:N	2.43	0.44
1:B:981:ILE:HD12	1:C:1973:ASN:HB2	2.00	0.44
1:C:2377:PHE:HE1	1:C:2387:LEU:HB2	1.81	0.44
1:C:2282:TRP:CH2	1:C:2440:GLY:HA3	2.52	0.44
1:B:2460:PHE:CB	1:C:2464:PHE:HE2	2.30	0.44
1:D:1966:ARG:O	1:D:1970:LEU:HD12	2.18	0.44
1:D:1868:TYR:CD2	1:D:1976:ILE:HD13	2.53	0.44
1:D:2418:THR:HG22	1:D:2420:PRO:HD3	1.99	0.44
1:D:93:ASN:OD1	1:D:1894:PRO:HB3	2.17	0.44
1:D:977:VAL:HG12	1:D:978:SER:O	2.18	0.44
1:E:1103:ASN:ND2	1:E:1598:TRP:CE2	2.82	0.44
1:E:159:LEU:O	1:E:983:THR:N	2.43	0.44
1:E:1740:ILE:O	1:E:1741:LEU:HB2	2.18	0.44
1:E:1827:TRP:NE1	1:E:1846:MET:HE2	2.33	0.44
1:E:1966:ARG:O	1:E:1970:LEU:HD12	2.18	0.44
1:E:2103:TYR:CD2	1:E:2104:ASP:OD1	2.70	0.44
1:A:2124:LEU:HG	1:E:2165:MET:HG3	1.99	0.44
1:B:1204:ARG:NH2	1:B:1210:ASN:OD1	2.42	0.44
1:B:155:MET:O	1:B:155:MET:HG2	2.18	0.44
1:B:1723:PRO:HD3	1:B:1744:PHE:CE2	2.52	0.44
1:B:1859:LEU:HA	1:B:1859:LEU:HD12	1.71	0.44
1:B:1966:ARG:O	1:B:1970:LEU:HD12	2.18	0.44
1:B:2103:TYR:O	1:B:2104:ASP:HB2	2.18	0.44
1:B:2187:ARG:NH1	1:C:2108:ASN:OD1	2.50	0.44
1:B:969:GLN:HB3	1:B:999:ARG:HH12	1.83	0.44
1:C:977:VAL:HG12	1:C:978:SER:O	2.18	0.44
1:D:159:LEU:HD12	1:D:164:LEU:HD21	2.00	0.44
1:D:2399:ARG:HH21	1:D:2410:ARG:NH1	2.16	0.44
1:D:2500:MET:HG3	1:D:2501:LEU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1250:TYR:OH	1:E:1294:PHE:HB2	2.18	0.44
1:E:1598:TRP:CG	1:E:1599:GLN:N	2.86	0.44
1:E:1648:PRO:CD	1:E:1745:GLU:HG3	2.45	0.44
1:E:2099:TYR:CE2	1:E:2195:GLN:HG3	2.53	0.44
1:E:969:GLN:HB3	1:E:999:ARG:HH12	1.83	0.44
1:E:977:VAL:HG12	1:E:978:SER:O	2.18	0.44
1:A:1057:MET:HE2	1:A:1770:GLU:HB3	2.00	0.44
1:A:2264:GLN:OE1	1:B:2312:LEU:HD21	2.18	0.44
1:A:2301:TYR:CD2	1:E:2253:TRP:CE2	3.05	0.44
1:B:1004:VAL:HG23	1:B:1005:GLU:HG3	2.00	0.44
1:B:2304:LEU:HD23	1:B:2304:LEU:HA	1.81	0.44
1:B:2418:THR:HG22	1:B:2420:PRO:HD3	1.99	0.44
1:C:159:LEU:HD12	1:C:164:LEU:HD21	2.00	0.44
1:C:1951:GLN:HG3	1:C:1952:ILE:N	2.33	0.44
1:C:1966:ARG:O	1:C:1970:LEU:HD12	2.18	0.44
1:D:1204:ARG:NH2	1:D:1210:ASN:ND2	2.65	0.44
1:D:155:MET:HG2	1:D:155:MET:O	2.18	0.44
1:D:182:TYR:O	1:D:185:VAL:N	2.50	0.44
1:D:1841:ALA:O	1:D:1843:HIS:N	2.44	0.44
1:D:2103:TYR:O	1:D:2104:ASP:HB2	2.18	0.44
1:C:2016:LEU:HD11	1:D:2327:ARG:HB2	2.00	0.44
1:D:999:ARG:HE	1:D:1004:VAL:CG2	2.31	0.44
1:E:2282:TRP:CH2	1:E:2440:GLY:HA3	2.52	0.44
1:A:2202:GLU:O	1:A:2205:GLN:HB3	2.18	0.43
1:B:1250:TYR:OH	1:B:1294:PHE:HB2	2.18	0.43
1:B:2253:TRP:CE2	1:C:2301:TYR:CD2	3.06	0.43
1:B:2500:MET:HG3	1:B:2501:LEU:N	2.33	0.43
1:C:1300:ARG:O	1:C:1585:THR:HA	2.18	0.43
1:C:1597:GLN:HG3	1:C:1601:TYR:O	2.18	0.43
1:D:1597:GLN:HG3	1:D:1601:TYR:O	2.18	0.43
1:D:2201:ALA:CB	1:E:2091:GLY:CA	2.96	0.43
1:D:2360:LEU:HD22	1:D:2375:LEU:CD2	2.47	0.43
1:D:984:THR:HG22	1:D:985:ARG:N	2.33	0.43
1:E:1300:ARG:O	1:E:1585:THR:HA	2.18	0.43
1:E:2018:ARG:HG2	1:E:2467:GLY:C	2.38	0.43
1:A:2301:TYR:CE2	1:E:2253:TRP:NE1	2.86	0.43
1:E:2385:THR:HG23	1:E:2490:SER:HB3	1.99	0.43
1:E:999:ARG:HE	1:E:1004:VAL:CG2	2.31	0.43
1:A:1103:ASN:ND2	1:A:1598:TRP:CG	2.76	0.43
1:A:1706:LYS:CG	1:A:1722:GLY:HA3	2.49	0.43
1:A:1723:PRO:HD3	1:A:1744:PHE:CE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1081:TYR:HD2	1:A:1771:LEU:HD12	1.81	0.43
1:A:1966:ARG:O	1:A:1970:LEU:HD12	2.18	0.43
1:A:1975:SER:OG	1:A:1979:GLN:O	2.33	0.43
1:A:2460:PHE:CB	1:B:2464:PHE:CE2	3.02	0.43
1:A:2018:ARG:HG2	1:A:2467:GLY:C	2.38	0.43
1:A:974:ASP:CB	1:A:977:VAL:HG23	2.47	0.43
1:B:2018:ARG:HG2	1:B:2467:GLY:C	2.38	0.43
1:C:1057:MET:HE2	1:C:1770:GLU:HB3	2.00	0.43
1:B:1002:GLU:OE1	1:C:1885:GLN:OE1	2.35	0.43
1:C:2172:MET:CE	1:D:2120:SER:C	2.83	0.43
1:D:2183:GLU:CG	1:E:2111:GLU:HG2	2.39	0.43
1:E:2399:ARG:HH21	1:E:2410:ARG:NH1	2.16	0.43
1:A:160:SER:HA	1:A:982:LYS:HD3	2.01	0.43
1:A:2294:PRO:HA	1:A:2295:GLY:HA2	1.74	0.43
1:B:1740:ILE:O	1:B:1741:LEU:HB2	2.18	0.43
1:B:984:THR:HG22	1:B:985:ARG:N	2.33	0.43
1:C:150:LEU:HA	1:C:150:LEU:HD23	1.68	0.43
1:C:1868:TYR:CD2	1:C:1976:ILE:HD13	2.53	0.43
1:B:2201:ALA:CB	1:C:2091:GLY:HA3	2.47	0.43
1:B:2264:GLN:OE1	1:C:2312:LEU:HD21	2.19	0.43
1:D:1706:LYS:CG	1:D:1722:GLY:HA3	2.49	0.43
1:D:2018:ARG:HG2	1:D:2467:GLY:C	2.38	0.43
1:D:2404:ALA:O	1:D:2406:LEU:N	2.51	0.43
1:E:2500:MET:HG3	1:E:2501:LEU:N	2.32	0.43
1:A:2399:ARG:HH21	1:A:2410:ARG:NH1	2.16	0.43
1:B:1055:LYS:HG3	1:B:1143:GLU:OE2	2.19	0.43
1:C:2404:ALA:O	1:C:2406:LEU:N	2.51	0.43
1:C:984:THR:HG22	1:C:985:ARG:N	2.33	0.43
1:E:160:SER:HA	1:E:982:LYS:HD2	1.99	0.43
1:A:1300:ARG:O	1:A:1585:THR:HA	2.18	0.43
1:A:2013:PHE:HB3	1:A:2014:MET:H	1.51	0.43
1:B:965:ASP:O	1:B:968:TYR:N	2.52	0.43
1:C:1055:LYS:HG3	1:C:1143:GLU:OE2	2.19	0.43
1:C:1775:THR:OG1	1:C:1776:PRO:HD3	2.19	0.43
1:C:2264:GLN:OE1	1:D:2312:LEU:HD21	2.18	0.43
1:E:1597:GLN:HG3	1:E:1601:TYR:O	2.18	0.43
1:E:965:ASP:O	1:E:968:TYR:N	2.52	0.43
1:E:160:SER:HA	1:E:982:LYS:HD3	2.01	0.43
1:E:984:THR:HG22	1:E:985:ARG:N	2.33	0.43
1:A:1055:LYS:HG3	1:A:1143:GLU:OE2	2.19	0.43
1:A:1598:TRP:CG	1:A:1599:GLN:N	2.86	0.43

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1868:TYR:CD2	1:A:1976:ILE:HD13	2.53	0.43
1:A:2091:GLY:HA3	1:E:2201:ALA:CB	2.49	0.43
1:A:2222:LEU:HD11	1:B:2073:LYS:HE3	1.99	0.43
1:A:2441:LEU:HD13	1:A:2446:GLU:HG3	2.01	0.43
1:B:1706:LYS:CG	1:B:1722:GLY:HA3	2.49	0.43
1:B:2188:ARG:O	1:B:2192:TRP:HD1	2.02	0.43
1:B:2404:ALA:O	1:B:2406:LEU:N	2.51	0.43
1:C:1004:VAL:HG23	1:C:1005:GLU:HG3	2.00	0.43
1:C:1215:PHE:CD1	1:C:1275:SER:HB3	2.54	0.43
1:C:160:SER:HA	1:C:982:LYS:HD3	2.01	0.43
1:C:2201:ALA:CB	1:D:2091:GLY:CA	2.97	0.43
1:C:2515:ILE:HG22	1:C:2516:LYS:OXT	2.18	0.43
1:C:995:LEU:CD1	1:D:1881:MET:HB3	2.48	0.43
1:D:1132:ASN:HB2	1:D:1832:LEU:HD12	2.01	0.43
1:D:1598:TRP:CG	1:D:1599:GLN:N	2.86	0.43
1:C:2201:ALA:CB	1:D:2091:GLY:HA3	2.48	0.43
1:C:2169:ALA:CB	1:D:2124:LEU:CG	2.37	0.43
1:D:2179:ILE:HG21	1:E:2114:ALA:CA	2.49	0.43
1:A:1992:PRO:HB3	1:E:1044:TYR:CE2	2.54	0.43
1:E:1204:ARG:HH21	1:E:1210:ASN:HD21	1.63	0.43
1:E:1775:THR:OG1	1:E:1776:PRO:HD3	2.19	0.43
1:E:2103:TYR:HB2	1:E:2196:ARG:HH11	1.81	0.43
1:A:1044:TYR:CE2	1:B:1992:PRO:HB3	2.54	0.43
1:A:1868:TYR:CE1	1:A:1970:LEU:HG	2.47	0.43
1:A:214:GLN:O	1:A:215:ASP:C	2.54	0.43
1:A:2471:PRO:CG	1:B:2327:ARG:HE	2.28	0.43
1:B:2446:GLU:OE1	1:B:2471:PRO:HA	2.19	0.43
1:B:974:ASP:CB	1:B:977:VAL:HG23	2.47	0.43
1:B:1242:GLU:HA	1:C:1806:ILE:HG23	2.00	0.43
1:C:2103:TYR:O	1:C:2104:ASP:HB2	2.18	0.43
1:C:214:GLN:O	1:C:215:ASP:C	2.54	0.43
1:C:2222:LEU:HA	1:C:2222:LEU:HD23	1.79	0.43
1:D:1044:TYR:OH	1:E:1992:PRO:CG	2.64	0.43
1:D:1081:TYR:HD2	1:D:1771:LEU:HD12	1.81	0.43
1:D:1952:ILE:O	1:D:1953:ASN:HB3	2.19	0.43
1:E:1124:ARG:NH2	1:E:1763:ALA:O	2.52	0.43
1:E:1706:LYS:CG	1:E:1722:GLY:HA3	2.49	0.43
1:E:1841:ALA:C	1:E:1843:HIS:H	2.22	0.43
1:E:1967:VAL:O	1:E:1970:LEU:N	2.49	0.43
1:E:1868:TYR:CD2	1:E:1976:ILE:HD13	2.53	0.43
1:A:2120:SER:C	1:E:2172:MET:CE	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2111:GLU:HG2	1:E:2183:GLU:CG	2.42	0.43
1:A:159:LEU:O	1:A:983:THR:N	2.43	0.43
1:A:2266:TYR:CE2	1:A:2297:TRP:HB2	2.54	0.43
1:B:1760:PHE:CD2	1:B:1820:PRO:CG	3.00	0.43
1:B:1841:ALA:C	1:B:1843:HIS:H	2.22	0.43
1:C:2236:SER:OG	1:D:2059:GLN:NE2	2.52	0.43
1:C:2385:THR:HG23	1:C:2490:SER:HB3	1.99	0.43
1:D:1648:PRO:CD	1:D:1745:GLU:HG3	2.45	0.43
1:D:2446:GLU:OE1	1:D:2471:PRO:HA	2.19	0.43
1:E:1055:LYS:HG3	1:E:1143:GLU:OE2	2.19	0.43
1:E:2266:TYR:CE2	1:E:2297:TRP:HB2	2.54	0.43
1:A:1124:ARG:NH2	1:A:1763:ALA:O	2.52	0.42
1:A:1132:ASN:HB2	1:A:1832:LEU:HD12	2.01	0.42
1:A:2464:PHE:CE2	1:E:2460:PHE:CB	3.02	0.42
1:B:1819:ARG:HG2	1:B:1823:GLU:OE1	2.19	0.42
1:B:1881:MET:HG3	1:B:1882:TRP:N	2.34	0.42
1:B:2202:GLU:O	1:B:2205:GLN:HB3	2.18	0.42
1:C:1124:ARG:NH2	1:C:1763:ALA:O	2.52	0.42
1:C:1204:ARG:O	1:C:1207:GLY:N	2.33	0.42
1:C:1651:ASN:O	1:C:1653:SER:N	2.52	0.42
1:C:1642:TYR:CZ	1:C:1689:THR:OG1	2.72	0.42
1:C:2412:ILE:HD12	1:C:2475:ILE:HB	2.01	0.42
1:D:1287:ARG:O	1:D:1290:SER:N	2.52	0.42
1:D:160:SER:HA	1:D:982:LYS:HD3	2.01	0.42
1:D:1740:ILE:O	1:D:1741:LEU:HB2	2.18	0.42
1:D:1976:ILE:HD12	1:D:1976:ILE:HA	1.91	0.42
1:C:2169:ALA:HB3	1:D:2124:LEU:HD22	1.61	0.42
1:E:1204:ARG:NH2	1:E:1210:ASN:ND2	2.65	0.42
1:E:1287:ARG:O	1:E:1290:SER:N	2.52	0.42
1:E:155:MET:HG2	1:E:155:MET:O	2.18	0.42
1:E:1952:ILE:O	1:E:1953:ASN:HB3	2.19	0.42
1:E:2220:ALA:O	1:E:2223:GLN:HB3	2.19	0.42
1:A:999:ARG:HE	1:A:1004:VAL:CG2	2.31	0.42
1:A:111:SER:HB3	1:A:114:SER:HB3	2.01	0.42
1:A:1097:TYR:HD2	1:A:1162:ILE:HD12	1.83	0.42
1:A:1597:GLN:HG3	1:A:1601:TYR:O	2.18	0.42
1:A:1859:LEU:HA	1:A:1859:LEU:HD12	1.71	0.42
1:A:2404:ALA:O	1:A:2406:LEU:N	2.51	0.42
1:A:965:ASP:O	1:A:968:TYR:N	2.52	0.42
1:B:1775:THR:OG1	1:B:1776:PRO:HD3	2.19	0.42
1:B:1777:MET:HE1	1:B:1852:THR:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2253:TRP:NE1	1:C:2301:TYR:CE2	2.87	0.42
1:B:2438:LYS:HB2	1:B:2438:LYS:HE3	1.83	0.42
1:B:2441:LEU:HD13	1:B:2446:GLU:HG3	2.01	0.42
1:B:977:VAL:HG12	1:B:978:SER:O	2.18	0.42
1:C:2188:ARG:O	1:C:2192:TRP:HD1	2.02	0.42
1:C:2220:ALA:O	1:C:2223:GLN:HB3	2.19	0.42
1:D:1651:ASN:O	1:D:1653:SER:N	2.52	0.42
1:D:1750:LEU:HA	1:D:1750:LEU:HD23	1.84	0.42
1:D:1124:ARG:NH2	1:D:1763:ALA:O	2.52	0.42
1:C:2176:ALA:HA	1:D:2117:LEU:HD13	1.93	0.42
1:D:2272:ARG:HH22	1:E:2318:GLU:CB	2.32	0.42
1:C:2253:TRP:NE1	1:D:2301:TYR:HE2	2.17	0.42
1:E:111:SER:HB3	1:E:114:SER:HB3	2.01	0.42
1:A:1044:TYR:CE1	1:B:1992:PRO:HB2	2.54	0.42
1:A:161:THR:O	1:A:162:LEU:HB3	2.18	0.42
1:A:1642:TYR:CZ	1:A:1689:THR:OG1	2.72	0.42
1:A:1808:HIS:CE1	1:E:1269:ILE:C	2.89	0.42
1:A:1841:ALA:C	1:A:1843:HIS:H	2.22	0.42
1:A:1951:GLN:HG3	1:A:1952:ILE:N	2.33	0.42
1:B:1300:ARG:O	1:B:1585:THR:HA	2.18	0.42
1:B:1651:ASN:O	1:B:1653:SER:N	2.52	0.42
1:B:1662:LYS:O	1:B:1710:THR:N	2.39	0.42
1:B:2201:ALA:CB	1:C:2091:GLY:CA	2.97	0.42
1:B:2222:LEU:HD11	1:C:2073:LYS:HE3	2.01	0.42
1:C:161:THR:O	1:C:162:LEU:HB3	2.18	0.42
1:C:1706:LYS:CG	1:C:1722:GLY:HA3	2.49	0.42
1:C:2390:SER:HA	1:C:2483:THR:HA	2.02	0.42
1:D:1666:LYS:HD2	1:D:1708:TYR:CE1	2.55	0.42
1:D:1775:THR:OG1	1:D:1776:PRO:HD3	2.19	0.42
1:D:1760:PHE:CD2	1:D:1820:PRO:CG	3.00	0.42
1:D:2281:ARG:HD3	1:D:2289:ALA:O	2.19	0.42
1:A:160:SER:HA	1:A:982:LYS:HA	2.02	0.42
1:A:2359:LYS:O	1:A:2363:GLN:HG2	2.20	0.42
1:B:1046:ASP:HB2	1:B:1049:MET:HG2	2.02	0.42
1:B:1124:ARG:NH2	1:B:1763:ALA:O	2.52	0.42
1:B:1204:ARG:HH21	1:B:1210:ASN:HD21	1.63	0.42
1:B:1242:GLU:CA	1:C:1806:ILE:HG23	2.49	0.42
1:B:2216:ARG:CA	1:C:2077:GLU:OE1	2.62	0.42
1:C:1598:TRP:CG	1:C:1599:GLN:N	2.86	0.42
1:C:160:SER:HA	1:C:982:LYS:HD2	1.99	0.42
1:C:1819:ARG:HG2	1:C:1823:GLU:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1044:TYR:CE1	1:C:1992:PRO:HB2	2.55	0.42
1:C:2103:TYR:HB2	1:C:2196:ARG:HH11	1.81	0.42
1:B:2172:MET:HE1	1:C:2121:ALA:CA	2.36	0.42
1:C:965:ASP:O	1:C:968:TYR:N	2.52	0.42
1:D:161:THR:O	1:D:162:LEU:HB3	2.18	0.42
1:D:1830:ASP:HA	1:D:1831:PRO:HD2	1.83	0.42
1:A:1992:PRO:HB2	1:E:1044:TYR:CE1	2.54	0.42
1:E:1204:ARG:O	1:E:1207:GLY:N	2.33	0.42
1:A:2111:GLU:CD	1:E:2183:GLU:OE2	2.55	0.42
1:E:2446:GLU:OE1	1:E:2471:PRO:HA	2.19	0.42
1:E:94:ASN:N	1:E:94:ASN:HD22	2.18	0.42
1:A:103:TYR:CD1	1:A:1950:PRO:HG2	2.54	0.42
1:A:2179:ILE:HG21	1:B:2114:ALA:CA	2.49	0.42
1:A:2515:ILE:HG22	1:A:2516:LYS:OXT	2.18	0.42
1:B:100:ALA:CB	1:B:1950:PRO:HG3	2.44	0.42
1:A:2165:MET:HG3	1:B:2124:LEU:HG	2.02	0.42
1:B:2370:SER:O	1:B:2374:ASN:HB3	2.20	0.42
1:C:2281:ARG:HD3	1:C:2289:ALA:O	2.19	0.42
1:D:1046:ASP:HB2	1:D:1049:MET:HG2	2.02	0.42
1:D:1642:TYR:CZ	1:D:1689:THR:OG1	2.72	0.42
1:D:1881:MET:HG3	1:D:1882:TRP:N	2.34	0.42
1:D:2220:ALA:O	1:D:2223:GLN:HB3	2.19	0.42
1:D:2370:SER:O	1:D:2374:ASN:HB3	2.20	0.42
1:D:929:GLN:O	1:D:932:ASN:HB2	2.20	0.42
1:E:1004:VAL:HG23	1:E:1005:GLU:HG3	2.00	0.42
1:E:1016:GLN:OE1	1:E:1019:ILE:HB	2.20	0.42
1:E:1165:SER:O	1:E:1165:SER:OG	2.35	0.42
1:E:1805:TYR:HD2	1:E:1814:TYR:CE2	2.37	0.42
1:A:1016:GLN:OE1	1:A:1019:ILE:HB	2.20	0.42
1:A:1651:ASN:O	1:A:1653:SER:N	2.52	0.42
1:A:2438:LYS:HE3	1:A:2438:LYS:HB2	1.83	0.42
1:A:94:ASN:N	1:A:94:ASN:HD22	2.18	0.42
1:B:1665:ILE:CG2	1:B:1674:HIS:HD2	2.32	0.42
1:B:1750:LEU:HD23	1:B:1750:LEU:HA	1.84	0.42
1:B:1805:TYR:HD2	1:B:1814:TYR:CE2	2.37	0.42
1:B:2266:TYR:CE2	1:B:2297:TRP:HB2	2.54	0.42
1:B:160:SER:HA	1:B:982:LYS:HA	2.02	0.42
1:C:1740:ILE:O	1:C:1741:LEU:HB2	2.18	0.42
1:C:1952:ILE:O	1:C:1953:ASN:HB3	2.19	0.42
1:C:2272:ARG:HH22	1:D:2318:GLU:CB	2.32	0.42
1:C:2446:GLU:OE1	1:C:2471:PRO:HA	2.19	0.42

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1758:MET:HG3	1:A:1760:PHE:HE1	1.85	0.42
1:B:1642:TYR:CZ	1:B:1689:THR:OG1	2.72	0.42
1:B:1726:VAL:HG22	1:B:1734:THR:O	2.20	0.42
1:B:1758:MET:HG3	1:B:1760:PHE:HE1	1.85	0.42
1:B:1858:ASP:O	1:B:1862:ALA:CB	2.68	0.42
1:B:2195:GLN:O	1:B:2198:ASN:HB3	2.20	0.42
1:C:1046:ASP:HB2	1:C:1049:MET:HG2	2.02	0.42
1:C:2441:LEU:HD13	1:C:2446:GLU:HG3	2.01	0.42
1:D:1016:GLN:OE1	1:D:1019:ILE:HB	2.20	0.42
1:D:1055:LYS:HG3	1:D:1143:GLU:OE2	2.19	0.42
1:D:1053:GLN:NE2	1:D:1058:ASP:OD1	2.53	0.42
1:D:1736:ASN:HB3	1:D:1738:LYS:HZ1	1.84	0.42
1:D:2172:MET:HE1	1:E:2120:SER:C	2.40	0.42
1:D:2039:THR:HG23	1:D:2258:LEU:HD21	2.02	0.42
1:E:1082:LEU:HD23	1:E:1082:LEU:HA	1.74	0.42
1:E:1198:LEU:HD11	1:E:1215:PHE:HD2	1.85	0.42
1:E:160:SER:N	1:E:982:LYS:HD2	2.35	0.42
1:E:182:TYR:O	1:E:185:VAL:N	2.50	0.42
1:E:2122:ALA:O	1:E:2125:THR:OG1	2.26	0.42
1:E:2359:LYS:O	1:E:2363:GLN:HG2	2.20	0.42
1:E:160:SER:HA	1:E:982:LYS:HA	2.02	0.42
1:A:1750:LEU:HA	1:A:1750:LEU:HD23	1.84	0.42
1:A:2220:ALA:O	1:A:2223:GLN:HB3	2.19	0.42
1:B:1648:PRO:CD	1:B:1745:GLU:HG3	2.45	0.42
1:C:1805:TYR:HD2	1:C:1814:TYR:CE2	2.37	0.42
1:C:2079:ASP:O	1:C:2082:LYS:HB3	2.20	0.42
1:C:2179:ILE:HG21	1:D:2114:ALA:CA	2.50	0.42
1:C:2023:LEU:HD21	1:C:2318:GLU:HB2	2.01	0.42
1:B:2471:PRO:CG	1:C:2327:ARG:HE	2.30	0.42
1:C:900:LEU:HA	1:C:908:GLU:HB3	2.02	0.42
1:D:1610:ALA:O	1:D:1614:VAL:HG23	2.20	0.42
1:D:1868:TYR:CE1	1:D:1970:LEU:HG	2.47	0.42
1:D:2188:ARG:O	1:D:2192:TRP:CD1	2.73	0.42
1:D:2266:TYR:CE2	1:D:2297:TRP:HB2	2.54	0.42
1:D:2023:LEU:HD21	1:D:2318:GLU:HB2	2.01	0.42
1:D:900:LEU:HA	1:D:908:GLU:HB3	2.02	0.42
1:E:1030:THR:O	1:E:1033:GLY:N	2.53	0.42
1:E:1215:PHE:CD1	1:E:1275:SER:HB3	2.54	0.42
1:E:1282:GLN:O	1:E:1285:VAL:HG12	2.20	0.42
1:E:1651:ASN:O	1:E:1653:SER:N	2.52	0.42
1:E:1819:ARG:HG2	1:E:1823:GLU:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2165:MET:CG	1:E:2124:LEU:HG	2.49	0.42
1:E:2188:ARG:O	1:E:2192:TRP:CD1	2.73	0.42
1:E:2222:LEU:HD23	1:E:2222:LEU:HA	1.79	0.42
1:A:2059:GLN:NE2	1:E:2236:SER:OG	2.53	0.42
1:E:900:LEU:HA	1:E:908:GLU:HB3	2.02	0.42
1:A:1726:VAL:HG22	1:A:1734:THR:O	2.20	0.42
1:A:1881:MET:HG3	1:A:1882:TRP:N	2.34	0.42
1:A:2327:ARG:HE	1:E:2471:PRO:CG	2.30	0.42
1:A:2383:THR:HG23	1:B:2403:PRO:HB3	2.02	0.42
1:A:2460:PHE:CZ	1:B:2330:GLU:CB	3.03	0.42
1:B:1030:THR:O	1:B:1033:GLY:N	2.53	0.42
1:B:1124:ARG:NE	1:B:1142:SER:O	2.53	0.42
1:B:1706:LYS:NZ	1:B:1720:TRP:O	2.33	0.42
1:B:2079:ASP:O	1:B:2082:LYS:HB3	2.20	0.42
1:B:2220:ALA:O	1:B:2223:GLN:HB3	2.19	0.42
1:B:93:ASN:O	1:B:97:SER:HB3	2.19	0.42
1:C:1282:GLN:O	1:C:1285:VAL:HG12	2.20	0.42
1:C:1974:LEU:O	1:C:1975:SER:OG	2.32	0.42
1:C:2195:GLN:O	1:C:2198:ASN:HB3	2.20	0.42
1:C:2281:ARG:HD2	1:C:2287:ASP:HA	2.02	0.42
1:C:2359:LYS:O	1:C:2363:GLN:HG2	2.20	0.42
1:B:2460:PHE:CB	1:C:2464:PHE:CE2	3.03	0.42
1:C:935:HIS:O	1:C:939:ASP:HB2	2.20	0.42
1:D:1777:MET:HE1	1:D:1852:THR:HG23	2.01	0.42
1:D:2284:LEU:HD21	1:D:2324:ARG:CB	2.50	0.42
1:D:2359:LYS:O	1:D:2363:GLN:HG2	2.20	0.42
1:E:1196:TYR:N	1:E:1218:ASN:OD1	2.41	0.42
1:E:150:LEU:HD23	1:E:150:LEU:HA	1.68	0.42
1:E:1798:TYR:O	1:E:1817:ASN:HB3	2.20	0.42
1:E:1777:MET:HE1	1:E:1852:THR:HG23	2.01	0.42
1:E:103:TYR:CD1	1:E:1950:PRO:HG2	2.54	0.42
1:E:2039:THR:HG23	1:E:2258:LEU:HD21	2.02	0.42
1:A:1053:GLN:NE2	1:A:1058:ASP:OD1	2.53	0.41
1:A:1830:ASP:HA	1:A:1831:PRO:HD2	1.83	0.41
1:A:1833:ASP:OD1	1:A:1834:SER:N	2.49	0.41
1:B:111:SER:HB3	1:B:114:SER:HB3	2.01	0.41
1:B:161:THR:O	1:B:162:LEU:HB3	2.18	0.41
1:B:2312:LEU:HD12	1:B:2312:LEU:HA	1.74	0.41
1:B:2359:LYS:O	1:B:2363:GLN:HG2	2.20	0.41
1:C:2210:LEU:HA	1:C:2210:LEU:HD23	1.87	0.41
1:C:974:ASP:CB	1:C:977:VAL:HG23	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1805:TYR:HD2	1:D:1814:TYR:CE2	2.37	0.41
1:D:1798:TYR:O	1:D:1817:ASN:HB3	2.20	0.41
1:D:1819:ARG:HG2	1:D:1823:GLU:OE1	2.20	0.41
1:D:2079:ASP:O	1:D:2082:LYS:HB3	2.20	0.41
1:D:2121:ALA:O	1:D:2124:LEU:HB3	2.20	0.41
1:E:1046:ASP:HB2	1:E:1049:MET:HG2	2.02	0.41
1:E:1092:LYS:HA	1:E:1594:GLN:NE2	2.24	0.41
1:D:1002:GLU:HG2	1:E:1882:TRP:CH2	2.54	0.41
1:D:115:PRO:CB	1:E:1986:TYR:CE1	3.02	0.41
1:E:2195:GLN:O	1:E:2198:ASN:HB3	2.20	0.41
1:A:2330:GLU:CB	1:E:2460:PHE:CZ	3.02	0.41
1:E:972:LEU:HD11	1:E:996:TYR:HB2	2.02	0.41
1:A:104:VAL:HG12	1:A:105:ALA:O	2.20	0.41
1:A:1124:ARG:NE	1:A:1142:SER:O	2.53	0.41
1:A:1204:ARG:HG3	1:A:1208:THR:O	2.20	0.41
1:A:1204:ARG:HH21	1:A:1210:ASN:HD21	1.62	0.41
1:A:1809:GLY:C	1:A:1810:GLN:O	2.59	0.41
1:A:182:TYR:O	1:A:185:VAL:N	2.50	0.41
1:A:2023:LEU:HD21	1:A:2318:GLU:HB2	2.01	0.41
1:A:93:ASN:O	1:A:97:SER:HB3	2.19	0.41
1:B:1132:ASN:HB2	1:B:1832:LEU:HD12	2.01	0.41
1:B:1666:LYS:HD2	1:B:1708:TYR:CE1	2.55	0.41
1:B:2121:ALA:O	1:B:2124:LEU:HB3	2.20	0.41
1:B:2179:ILE:HG21	1:C:2114:ALA:CA	2.50	0.41
1:B:2023:LEU:HD21	1:B:2318:GLU:HB2	2.01	0.41
1:B:972:LEU:HD11	1:B:996:TYR:HB2	2.03	0.41
1:C:1204:ARG:NH2	1:C:1210:ASN:OD1	2.42	0.41
1:C:1827:TRP:HZ3	1:C:1847:HIS:CE1	2.38	0.41
1:B:1026:LYS:NZ	1:C:1878:GLU:OE1	2.48	0.41
1:C:209:GLU:O	1:C:210:VAL:C	2.58	0.41
1:C:2370:SER:O	1:C:2374:ASN:HB3	2.20	0.41
1:C:2458:GLY:O	1:D:2330:GLU:HB2	2.20	0.41
1:D:1124:ARG:NE	1:D:1142:SER:O	2.53	0.41
1:D:111:SER:HB3	1:D:114:SER:HB3	2.01	0.41
1:D:160:SER:N	1:D:982:LYS:HD2	2.35	0.41
1:C:1032:ALA:CB	1:D:1989:PRO:HB3	2.48	0.41
1:D:2372:ASN:ND2	1:D:2392:SER:HB2	2.36	0.41
1:E:1726:VAL:HG22	1:E:1734:THR:O	2.20	0.41
1:A:1030:THR:O	1:A:1033:GLY:N	2.53	0.41
1:A:161:THR:HB	1:A:983:THR:HG22	2.03	0.41
1:A:1798:TYR:O	1:A:1817:ASN:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1952:ILE:O	1:A:1953:ASN:HB3	2.19	0.41
1:A:2104:ASP:OD1	1:A:2104:ASP:N	2.53	0.41
1:A:2188:ARG:O	1:A:2192:TRP:CD1	2.73	0.41
1:B:104:VAL:HG12	1:B:105:ALA:O	2.20	0.41
1:A:1242:GLU:HA	1:B:1806:ILE:HG23	2.00	0.41
1:B:1824:ASP:OD2	1:B:1846:MET:HG2	2.21	0.41
1:B:1827:TRP:HZ3	1:B:1847:HIS:CE1	2.38	0.41
1:A:2383:THR:CG2	1:B:2403:PRO:HB3	2.50	0.41
1:B:2460:PHE:CZ	1:C:2330:GLU:CB	3.02	0.41
1:B:995:LEU:CD1	1:C:1881:MET:HB3	2.50	0.41
1:C:1001:LEU:HA	1:C:1001:LEU:HD23	1.86	0.41
1:C:1124:ARG:NE	1:C:1142:SER:O	2.53	0.41
1:C:160:SER:HA	1:C:982:LYS:HA	2.02	0.41
1:C:1633:GLN:N	1:C:1633:GLN:OE1	2.53	0.41
1:C:1726:VAL:HG22	1:C:1734:THR:O	2.20	0.41
1:C:1830:ASP:HA	1:C:1831:PRO:HD2	1.83	0.41
1:C:2104:ASP:N	1:C:2104:ASP:OD1	2.53	0.41
1:C:2121:ALA:O	1:C:2124:LEU:HB3	2.20	0.41
1:C:2460:PHE:CE2	1:D:2330:GLU:HG3	2.47	0.41
1:C:929:GLN:O	1:C:932:ASN:HB2	2.20	0.41
1:D:160:SER:HA	1:D:982:LYS:HA	2.02	0.41
1:D:1665:ILE:CG2	1:D:1674:HIS:HD2	2.32	0.41
1:D:2188:ARG:O	1:D:2192:TRP:HD1	2.02	0.41
1:D:2441:LEU:HD13	1:D:2446:GLU:HG3	2.01	0.41
1:E:1723:PRO:HD3	1:E:1744:PHE:CE2	2.52	0.41
1:D:1002:GLU:HG2	1:E:1882:TRP:HH2	1.84	0.41
1:A:1665:ILE:CG2	1:A:1674:HIS:HD2	2.32	0.41
1:A:2210:LEU:HA	1:A:2210:LEU:HD23	1.87	0.41
1:A:2372:ASN:ND2	1:A:2392:SER:HB2	2.36	0.41
1:A:2441:LEU:HD13	1:A:2446:GLU:CG	2.51	0.41
1:B:1109:TYR:CE2	1:B:1162:ILE:HD11	2.55	0.41
1:B:2165:MET:HG3	1:C:2124:LEU:HG	2.00	0.41
1:C:1758:MET:HG3	1:C:1760:PHE:HE1	1.85	0.41
1:C:2039:THR:HG23	1:C:2258:LEU:HD21	2.02	0.41
1:C:2468:LYS:CD	1:D:2327:ARG:HH11	2.28	0.41
1:D:1030:THR:O	1:D:1033:GLY:N	2.53	0.41
1:D:1198:LEU:HD11	1:D:1215:PHE:HD2	1.85	0.41
1:D:103:TYR:CD1	1:D:1950:PRO:HG2	2.54	0.41
1:D:2021:HIS:O	1:D:2024:GLU:HG2	2.21	0.41
1:C:2165:MET:CG	1:D:2124:LEU:HG	2.50	0.41
1:D:94:ASN:HD22	1:D:94:ASN:N	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:161:THR:HB	1:D:983:THR:HG22	2.03	0.41
1:E:1109:TYR:CE2	1:E:1162:ILE:HD11	2.55	0.41
1:A:1072:ASP:HB2	1:E:1204:ARG:NH1	2.36	0.41
1:E:161:THR:HB	1:E:983:THR:HG22	2.02	0.41
1:E:1649:PRO:HD3	1:E:1685:ASN:OD1	2.21	0.41
1:E:1809:GLY:C	1:E:1810:GLN:O	2.59	0.41
1:E:2104:ASP:OD1	1:E:2104:ASP:N	2.53	0.41
1:E:2404:ALA:O	1:E:2406:LEU:N	2.51	0.41
1:E:93:ASN:O	1:E:97:SER:HB3	2.19	0.41
1:A:1002:GLU:HG2	1:B:1882:TRP:HH2	1.85	0.41
1:A:1225:LYS:HG3	1:A:1251:ASN:ND2	2.36	0.41
1:A:1282:GLN:O	1:A:1285:VAL:HG12	2.20	0.41
1:A:2021:HIS:O	1:A:2024:GLU:HG2	2.21	0.41
1:B:1044:TYR:CE2	1:C:1992:PRO:HB3	2.55	0.41
1:B:1053:GLN:NE2	1:B:1058:ASP:OD1	2.53	0.41
1:B:1103:ASN:ND2	1:B:1598:TRP:CE2	2.83	0.41
1:B:1097:TYR:HD2	1:B:1162:ILE:HD12	1.83	0.41
1:B:1747:VAL:HG23	1:B:1747:VAL:O	2.21	0.41
1:B:182:TYR:O	1:B:185:VAL:N	2.50	0.41
1:A:2233:GLN:NE2	1:B:2059:GLN:O	2.52	0.41
1:B:2188:ARG:O	1:B:2192:TRP:CD1	2.73	0.41
1:B:2287:ASP:OD1	1:B:2287:ASP:N	2.54	0.41
1:B:2277:GLU:OE2	1:B:2290:ARG:HA	2.21	0.41
1:A:2013:PHE:CE1	1:B:2323:LYS:HG2	2.51	0.41
1:C:1030:THR:O	1:C:1033:GLY:N	2.53	0.41
1:C:2156:ALA:O	1:C:2159:GLU:HB2	2.21	0.41
1:C:2277:GLU:OE2	1:C:2290:ARG:HA	2.20	0.41
1:D:1726:VAL:HG22	1:D:1734:THR:O	2.20	0.41
1:D:1974:LEU:HA	1:D:1974:LEU:HD23	1.85	0.41
1:D:2277:GLU:OE2	1:D:2290:ARG:HA	2.21	0.41
1:C:2460:PHE:CG	1:D:2464:PHE:HE2	2.39	0.41
1:E:1108:THR:HB	1:E:1126:VAL:CG1	2.51	0.41
1:E:1124:ARG:NE	1:E:1142:SER:O	2.53	0.41
1:E:1225:LYS:HG3	1:E:1251:ASN:ND2	2.36	0.41
1:E:1827:TRP:HZ3	1:E:1847:HIS:CE1	2.38	0.41
1:E:2014:MET:HB2	1:E:2014:MET:HE3	1.95	0.41
1:E:2441:LEU:HD13	1:E:2446:GLU:CG	2.51	0.41
1:A:1747:VAL:O	1:A:1747:VAL:HG23	2.21	0.41
1:A:1976:ILE:HD12	1:A:1976:ILE:HA	1.91	0.41
1:A:1986:TYR:CE1	1:E:115:PRO:CB	3.03	0.41
1:A:2039:THR:HG23	1:A:2258:LEU:HD21	2.02	0.41

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2417:VAL:HG22	1:D:2509:LEU:CD2	2.51	0.41
1:E:1132:ASN:HB2	1:E:1832:LEU:CD1	2.51	0.41
1:E:1204:ARG:HG3	1:E:1208:THR:O	2.20	0.41
1:E:1868:TYR:CE1	1:E:1970:LEU:HG	2.47	0.41
1:E:209:GLU:O	1:E:210:VAL:C	2.58	0.41
1:E:2280:TYR:HE2	1:E:2291:PHE:HE2	1.69	0.41
1:E:2372:ASN:ND2	1:E:2392:SER:HB2	2.36	0.41
1:E:947:SER:OG	1:E:964:ARG:HG3	2.21	0.41
1:A:1108:THR:HB	1:A:1126:VAL:CG1	2.51	0.41
1:A:100:ALA:CB	1:A:1950:PRO:HG3	2.44	0.41
1:A:1974:LEU:HA	1:A:1974:LEU:HD23	1.85	0.41
1:A:2079:ASP:O	1:A:2082:LYS:HB3	2.20	0.41
1:A:2314:LEU:N	1:A:2314:LEU:HD12	2.36	0.41
1:A:2390:SER:HA	1:A:2483:THR:HA	2.02	0.41
1:B:106:PRO:HA	1:B:1951:GLN:OE1	2.21	0.41
1:B:1198:LEU:HD11	1:B:1215:PHE:HD2	1.85	0.41
1:B:1225:LYS:HG3	1:B:1251:ASN:ND2	2.36	0.41
1:B:1974:LEU:HD23	1:B:1974:LEU:HA	1.85	0.41
1:B:2294:PRO:HA	1:B:2295:GLY:HA2	1.74	0.41
1:B:160:SER:N	1:B:982:LYS:HD2	2.35	0.41
1:C:1225:LYS:HG3	1:C:1251:ASN:ND2	2.36	0.41
1:C:1858:ASP:O	1:C:1862:ALA:CB	2.68	0.41
1:C:1868:TYR:HE1	1:C:1970:LEU:CG	2.30	0.41
1:D:1108:THR:OG1	1:D:1128:HIS:NE2	2.30	0.41
1:D:1132:ASN:HB2	1:D:1832:LEU:CD1	2.51	0.41
1:D:1599:GLN:HG3	1:D:1600:SER:H	1.86	0.41
1:D:1747:VAL:O	1:D:1747:VAL:HG23	2.21	0.41
1:D:1868:TYR:HE1	1:D:1970:LEU:CG	2.30	0.41
1:C:115:PRO:CB	1:D:1986:TYR:CE1	3.04	0.41
1:D:947:SER:OG	1:D:964:ARG:HG3	2.21	0.41
1:E:1103:ASN:ND2	1:E:1598:TRP:CG	2.76	0.41
1:E:1824:ASP:OD2	1:E:1846:MET:HG2	2.21	0.41
1:A:2073:LYS:HE3	1:E:2222:LEU:HD11	2.01	0.41
1:E:2277:GLU:OE2	1:E:2290:ARG:HA	2.21	0.41
1:E:974:ASP:CB	1:E:977:VAL:HG23	2.47	0.41
1:A:129:LEU:HD23	1:A:129:LEU:HA	1.84	0.41
1:A:1660:TRP:CD2	1:A:1680:GLN:HB3	2.46	0.41
1:A:1800:TRP:CD1	1:A:1816:TRP:CZ2	3.09	0.41
1:A:106:PRO:HA	1:A:1951:GLN:OE1	2.21	0.41
1:A:2121:ALA:O	1:A:2124:LEU:HB3	2.20	0.41
1:A:2282:TRP:CZ2	1:A:2474:GLY:HA3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:150:LEU:HA	1:B:150:LEU:HD23	1.68	0.41
1:B:2021:HIS:O	1:B:2024:GLU:HG2	2.21	0.41
1:B:2337:LEU:HG	1:B:2391:VAL:HG21	2.03	0.41
1:B:929:GLN:O	1:B:932:ASN:HB2	2.20	0.41
1:B:947:SER:OG	1:B:964:ARG:HG3	2.21	0.41
1:C:1798:TYR:O	1:C:1817:ASN:HB3	2.20	0.41
1:C:1760:PHE:CD2	1:C:1820:PRO:CG	3.00	0.41
1:B:1032:ALA:CB	1:C:1989:PRO:HB3	2.48	0.41
1:C:2287:ASP:OD1	1:C:2287:ASP:N	2.54	0.41
1:C:2417:VAL:HG22	1:C:2509:LEU:CD2	2.51	0.41
1:C:2441:LEU:HD13	1:C:2446:GLU:CG	2.51	0.41
1:D:141:ARG:NH2	1:D:1005:GLU:OE2	2.38	0.41
1:D:1824:ASP:OD2	1:D:1846:MET:HG2	2.21	0.41
1:D:1827:TRP:HZ3	1:D:1847:HIS:CE1	2.38	0.41
1:D:2337:LEU:HG	1:D:2391:VAL:HG21	2.03	0.41
1:E:1665:ILE:CG2	1:E:1674:HIS:HD2	2.32	0.41
1:E:2281:ARG:HD2	1:E:2287:ASP:HA	2.02	0.41
1:E:2023:LEU:HD21	1:E:2318:GLU:HB2	2.01	0.41
1:E:2282:TRP:CZ2	1:E:2474:GLY:HA3	2.56	0.41
1:E:929:GLN:O	1:E:932:ASN:HB2	2.20	0.41
1:A:1825:THR:HA	1:A:1846:MET:SD	2.61	0.41
1:A:209:GLU:O	1:A:210:VAL:C	2.58	0.41
1:A:2102:LEU:HB2	1:A:2192:TRP:CE3	2.55	0.41
1:A:2250:LEU:HD23	1:A:2251:TYR:N	2.36	0.41
1:A:2370:SER:O	1:A:2374:ASN:HB3	2.20	0.41
1:B:1204:ARG:HG3	1:B:1208:THR:O	2.20	0.41
1:B:1649:PRO:HD3	1:B:1685:ASN:OD1	2.21	0.41
1:B:1798:TYR:O	1:B:1817:ASN:HB3	2.20	0.41
1:B:2142:PRO:HA	1:B:2143:ASN:HA	1.72	0.41
1:B:2156:ALA:O	1:B:2159:GLU:HB2	2.21	0.41
1:B:2039:THR:HG23	1:B:2258:LEU:HD21	2.02	0.41
1:C:104:VAL:HG12	1:C:105:ALA:O	2.20	0.41
1:C:1198:LEU:HD11	1:C:1215:PHE:HD2	1.85	0.41
1:C:1599:GLN:HG3	1:C:1600:SER:H	1.86	0.41
1:C:2282:TRP:CZ2	1:C:2474:GLY:HA3	2.56	0.41
1:C:2372:ASN:ND2	1:C:2392:SER:HB2	2.36	0.41
1:C:2337:LEU:HG	1:C:2391:VAL:HG21	2.03	0.41
1:D:1649:PRO:HD3	1:D:1685:ASN:OD1	2.21	0.41
1:D:106:PRO:HA	1:D:1951:GLN:OE1	2.21	0.41
1:D:2250:LEU:HD23	1:D:2251:TYR:N	2.36	0.41
1:D:93:ASN:OD1	1:D:1894:PRO:CD	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1758:MET:HG3	1:E:1760:PHE:HE1	1.85	0.41
1:E:2021:HIS:O	1:E:2024:GLU:HG2	2.21	0.41
1:D:2187:ARG:HH11	1:E:2108:ASN:ND2	2.19	0.41
1:A:1599:GLN:HG3	1:A:1600:SER:H	1.86	0.41
1:B:1204:ARG:NH1	1:C:1072:ASP:HB2	2.35	0.41
1:B:1868:TYR:CE1	1:B:1970:LEU:HG	2.47	0.41
1:B:2390:SER:HA	1:B:2483:THR:HA	2.02	0.41
1:B:2441:LEU:HD13	1:B:2446:GLU:CG	2.51	0.41
1:C:1016:GLN:OE1	1:C:1019:ILE:HB	2.20	0.41
1:C:1098:HIS:CE1	1:C:1128:HIS:CD2	3.09	0.41
1:C:1610:ALA:O	1:C:1614:VAL:HG23	2.20	0.41
1:C:2021:HIS:O	1:C:2024:GLU:HG2	2.21	0.41
1:D:1758:MET:HG3	1:D:1760:PHE:HE1	1.85	0.41
1:D:1827:TRP:NE1	1:D:1846:MET:HE2	2.35	0.41
1:E:104:VAL:HG12	1:E:105:ALA:O	2.20	0.41
1:E:1155:LYS:HG3	1:E:1156:SER:N	2.29	0.41
1:E:2142:PRO:HA	1:E:2143:ASN:HA	1.72	0.41
1:A:2091:GLY:CA	1:E:2201:ALA:CB	2.99	0.41
1:E:2390:SER:HA	1:E:2483:THR:HA	2.02	0.41
1:A:1100:ASN:ND2	1:A:1105:GLN:HB2	2.37	0.40
1:A:1204:ARG:O	1:A:1207:GLY:N	2.33	0.40
1:A:1287:ARG:O	1:A:1290:SER:N	2.52	0.40
1:A:174:LYS:HE3	1:A:174:LYS:HB3	1.93	0.40
1:A:2277:GLU:OE2	1:A:2290:ARG:HA	2.21	0.40
1:A:2337:LEU:HG	1:A:2391:VAL:HG21	2.03	0.40
1:A:2440:GLY:O	1:A:2441:LEU:HG	2.22	0.40
1:A:948:THR:O	1:A:951:ILE:HB	2.21	0.40
1:B:1098:HIS:CE1	1:B:1128:HIS:CD2	3.09	0.40
1:B:1599:GLN:HG3	1:B:1600:SER:H	1.86	0.40
1:B:1809:GLY:C	1:B:1810:GLN:O	2.59	0.40
1:C:1008:ALA:CB	1:C:1013:ILE:HD11	2.51	0.40
1:C:118:TYR:HD1	1:C:1031:TRP:CD2	2.40	0.40
1:C:1204:ARG:HG3	1:C:1208:THR:O	2.20	0.40
1:C:1648:PRO:CD	1:C:1745:GLU:HG3	2.45	0.40
1:C:2009:LEU:HA	1:C:2009:LEU:HD23	1.86	0.40
1:C:2314:LEU:HD12	1:C:2314:LEU:N	2.36	0.40
1:D:1108:THR:HB	1:D:1126:VAL:CG1	2.51	0.40
1:D:1204:ARG:HG3	1:D:1208:THR:O	2.20	0.40
1:D:174:LYS:HB3	1:D:174:LYS:HE3	1.92	0.40
1:D:1825:THR:HA	1:D:1846:MET:SD	2.61	0.40
1:D:2383:THR:HB	1:D:2386:SER:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2460:PHE:CD1	1:D:2512:ARG:HD3	2.55	0.40
1:E:1587:HIS:HB2	1:E:1595:TYR:CZ	2.56	0.40
1:E:1747:VAL:O	1:E:1747:VAL:HG23	2.21	0.40
1:E:1868:TYR:HE1	1:E:1970:LEU:CG	2.30	0.40
1:E:2156:ALA:O	1:E:2159:GLU:HB2	2.21	0.40
1:E:2383:THR:HB	1:E:2386:SER:HB2	2.04	0.40
1:A:1082:LEU:HA	1:A:1082:LEU:HD23	1.74	0.40
1:A:1642:TYR:HH	1:A:1689:THR:HG1	1.60	0.40
1:A:1868:TYR:HE1	1:A:1970:LEU:CG	2.30	0.40
1:A:2281:ARG:HD2	1:A:2287:ASP:HA	2.02	0.40
1:B:1010:SER:OG	1:B:1240:GLN:NE2	2.54	0.40
1:B:1023:LYS:HE3	1:B:1024:TYR:CE2	2.56	0.40
1:B:1737:PRO:C	1:B:1739:SER:H	2.25	0.40
1:B:1800:TRP:CD1	1:B:1816:TRP:CZ2	3.09	0.40
1:B:1868:TYR:HE1	1:B:1970:LEU:CG	2.30	0.40
1:B:2372:ASN:ND2	1:B:2392:SER:HB2	2.36	0.40
1:B:2417:VAL:HG22	1:B:2509:LEU:CD2	2.51	0.40
1:C:1649:PRO:HD3	1:C:1685:ASN:OD1	2.21	0.40
1:C:1779:VAL:HG21	1:C:1795:TRP:CE3	2.56	0.40
1:C:1800:TRP:CD1	1:C:1816:TRP:CZ2	3.09	0.40
1:C:94:ASN:HD22	1:C:94:ASN:N	2.18	0.40
1:C:948:THR:O	1:C:951:ILE:HB	2.21	0.40
1:D:1225:LYS:HG3	1:D:1251:ASN:ND2	2.36	0.40
1:D:1075:GLU:HG2	1:D:1621:ILE:HB	2.04	0.40
1:D:1800:TRP:CD1	1:D:1816:TRP:CZ2	3.09	0.40
1:D:2253:TRP:NE1	1:E:2301:TYR:HE2	2.18	0.40
1:E:2314:LEU:N	1:E:2314:LEU:HD12	2.36	0.40
1:A:1174:GLN:HG2	1:A:1197:GLU:H	1.87	0.40
1:A:1666:LYS:HD2	1:A:1708:TYR:CE1	2.54	0.40
1:A:1661:PHE:CZ	1:A:1679:GLY:HA3	2.56	0.40
1:A:1706:LYS:NZ	1:A:1720:TRP:O	2.33	0.40
1:A:2280:TYR:HE2	1:A:2291:PHE:HE2	1.69	0.40
1:A:947:SER:OG	1:A:964:ARG:HG3	2.21	0.40
1:B:1082:LEU:HA	1:B:1082:LEU:HD23	1.74	0.40
1:B:1132:ASN:HB2	1:B:1832:LEU:CD1	2.51	0.40
1:B:1645:PHE:CE2	1:B:1707:VAL:HG21	2.57	0.40
1:B:1779:VAL:HG21	1:B:1795:TRP:CE3	2.56	0.40
1:B:103:TYR:CD1	1:B:1950:PRO:HG2	2.54	0.40
1:B:1976:ILE:HA	1:B:1976:ILE:HD12	1.91	0.40
1:C:1044:TYR:OH	1:D:1992:PRO:CG	2.64	0.40
1:C:1174:GLN:HG2	1:C:1197:GLU:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:142:ARG:NH2	1:C:168:LEU:HD11	2.37	0.40
1:C:1665:ILE:CG2	1:C:1674:HIS:HD2	2.32	0.40
1:C:947:SER:OG	1:C:964:ARG:HG3	2.21	0.40
1:D:1779:VAL:HG21	1:D:1795:TRP:CE3	2.57	0.40
1:D:100:ALA:CB	1:D:1950:PRO:HG3	2.44	0.40
1:D:2280:TYR:HE2	1:D:2291:PHE:HE2	1.69	0.40
1:D:2377:PHE:HA	1:D:2377:PHE:HD1	1.79	0.40
1:D:2441:LEU:HD13	1:D:2446:GLU:CG	2.51	0.40
1:D:2282:TRP:CZ2	1:D:2474:GLY:HA3	2.56	0.40
1:D:2390:SER:HA	1:D:2483:THR:HA	2.02	0.40
1:E:1174:GLN:HG2	1:E:1197:GLU:H	1.87	0.40
1:E:1857:LEU:HD23	1:E:1889:LEU:HD23	2.03	0.40
1:E:2312:LEU:HA	1:E:2312:LEU:HD12	1.74	0.40
1:E:2438:LYS:HE3	1:E:2438:LYS:HB2	1.83	0.40
1:A:1023:LYS:HE3	1:A:1024:TYR:CE2	2.56	0.40
1:A:1108:THR:OG1	1:A:1128:HIS:NE2	2.30	0.40
1:A:1587:HIS:HB2	1:A:1595:TYR:CZ	2.56	0.40
1:A:1660:TRP:CG	1:A:1661:PHE:N	2.84	0.40
1:A:2156:ALA:O	1:A:2159:GLU:HB2	2.21	0.40
1:A:2383:THR:HB	1:A:2386:SER:HB2	2.03	0.40
1:A:901:ASP:CB	1:A:904:GLN:O	2.70	0.40
1:A:1272:ASP:HB3	1:B:1623:THR:HG23	2.04	0.40
1:B:2314:LEU:HD12	1:B:2314:LEU:N	2.36	0.40
1:B:2383:THR:HG23	1:C:2403:PRO:HB3	2.03	0.40
1:C:2250:LEU:HD23	1:C:2251:TYR:N	2.36	0.40
1:C:2440:GLY:O	1:C:2441:LEU:HG	2.22	0.40
1:D:1098:HIS:CE1	1:D:1128:HIS:CD2	3.09	0.40
1:D:1103:ASN:ND2	1:D:1598:TRP:CE2	2.83	0.40
1:D:1648:PRO:HA	1:D:1649:PRO:HD3	1.90	0.40
1:D:2156:ALA:O	1:D:2159:GLU:HB2	2.21	0.40
1:C:2264:GLN:OE1	1:D:2312:LEU:CD2	2.70	0.40
1:D:2314:LEU:HD12	1:D:2314:LEU:N	2.36	0.40
1:D:978:SER:HB2	1:E:1972:HIS:CD2	2.55	0.40
1:E:1023:LYS:HE3	1:E:1024:TYR:CE2	2.56	0.40
1:E:1661:PHE:CZ	1:E:1679:GLY:HA3	2.56	0.40
1:E:142:ARG:NH2	1:E:168:LEU:HD11	2.37	0.40
1:E:1736:ASN:HB3	1:E:1738:LYS:HZ3	1.86	0.40
1:E:1737:PRO:C	1:E:1739:SER:H	2.25	0.40
1:E:1779:VAL:HG21	1:E:1795:TRP:CE3	2.56	0.40
1:E:1800:TRP:CD1	1:E:1816:TRP:CZ2	3.09	0.40
1:E:2079:ASP:O	1:E:2082:LYS:HB3	2.20	0.40

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

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	28	70
1	B	1415/2516 (56%)	1297 (92%)	110 (8%)	8 (1%)	28	70
1	C	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	28	70
1	D	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	28	70
1	E	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	28	70
All	All	7075/12580 (56%)	6489 (92%)	546 (8%)	40 (1%)	33	70

All (40) Ramachandran outliers are listed below:

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

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

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1135/2157 (53%)	1132 (100%)	3 (0%)	94	98
1	B	1135/2157 (53%)	1132 (100%)	3 (0%)	94	98
1	C	1135/2157 (53%)	1132 (100%)	3 (0%)	94	98
1	D	1135/2157 (53%)	1132 (100%)	3 (0%)	94	98
1	E	1135/2157 (53%)	1132 (100%)	3 (0%)	94	98
All	All	5675/10785 (53%)	5660 (100%)	15 (0%)	94	98

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

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

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

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

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

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

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

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

All chain breaks are listed below:

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