



Full wwPDB EM Validation Report ⓘ

Nov 29, 2022 – 11:55 AM JST

PDB ID : 7WLU
EMDB ID : EMD-32593
Title : The Flattened Structure of mPIEZO1 in Lipid Bilayer
Authors : Yang, X.; Lin, C.; Chen, X.; Li, S.; Li, X.; Xiao, B.
Deposited on : 2022-01-13
Resolution : 6.81 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev43
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.3

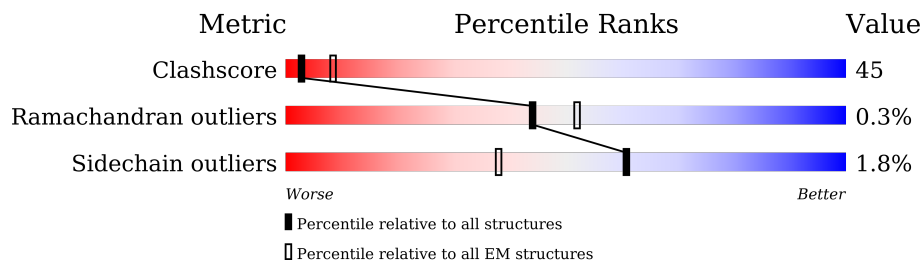
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 6.81 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	2547	
1	C	2547	
1	E	2547	

2 Entry composition [i](#)

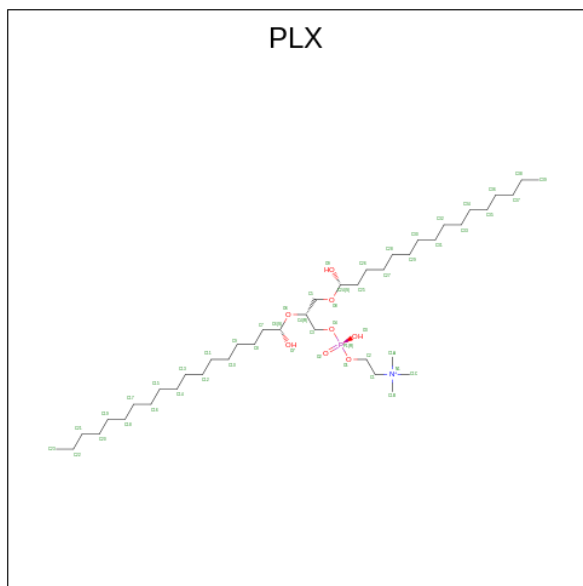
There are 2 unique types of molecules in this entry. The entry contains 34761 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Piezo-type mechanosensitive ion channel component 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	1498	Total 11535	7496	1973	2005	61	0	0
1	C	1498	Total 11535	7496	1973	2005	61	0	0
1	E	1498	Total 11535	7496	1973	2005	61	0	0

- Molecule 2 is (9R,11S)-9-({[(1S)-1-HYDROXYHEXADECYL]OXY}METHYL)-2,2-DIMETHYL-5,7,10-TRIOXA-2LAMBDA 5 -AZA-6LAMBDA 5 -PHOSPHAOCTACOSANE-6,6,11-TRIOL (three-letter code: PLX) (formula: C₄₂H₈₉NO₈P) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
2	A	1	Total 52	42	1	8	1	0
2	C	1	Total 52	42	1	8	1	0

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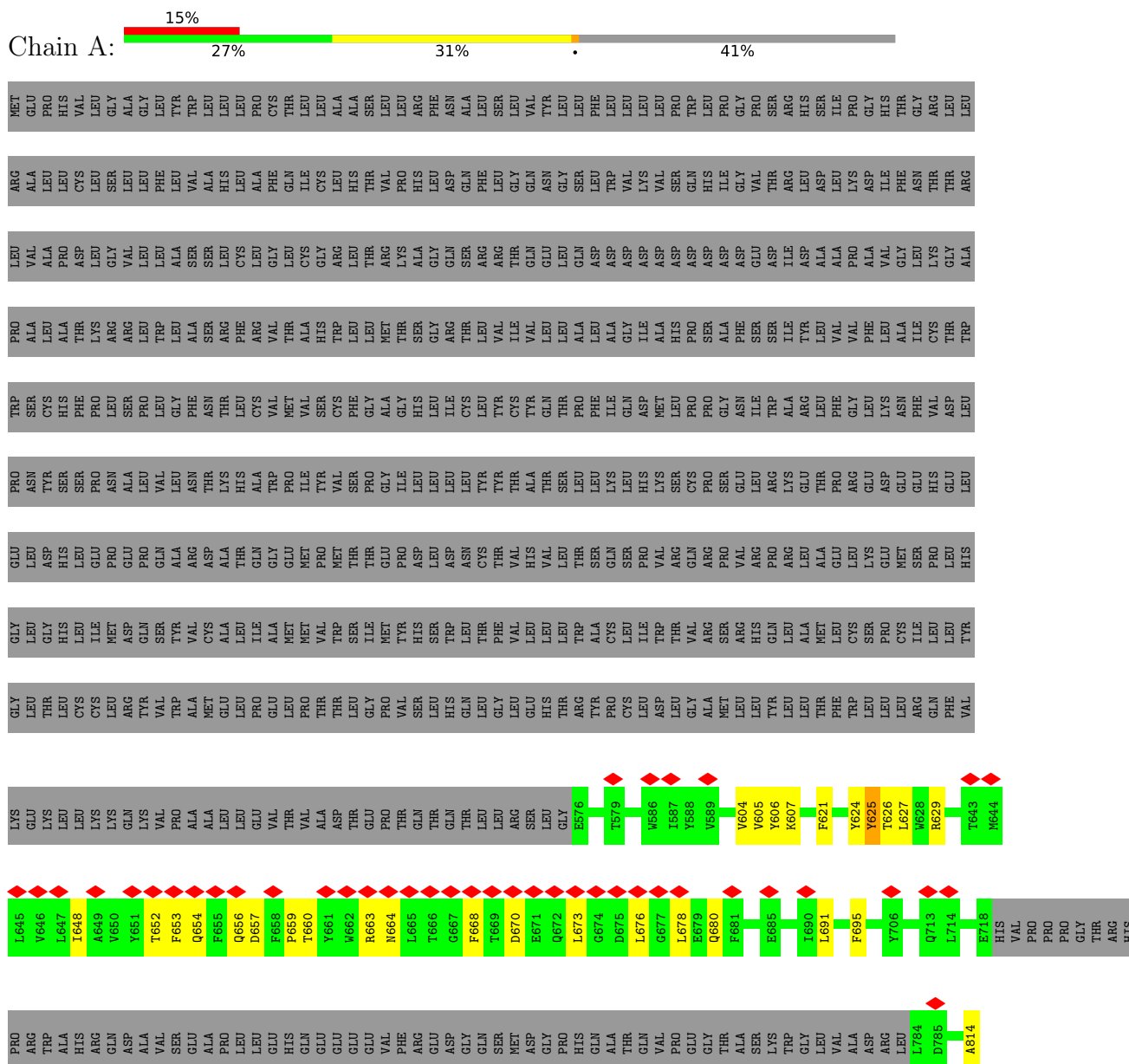
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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
2	E	1	52	42	1	8	1	0

3 Residue-property plots

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

- Molecule 1: Piezo-type mechanosensitive ion channel component 1

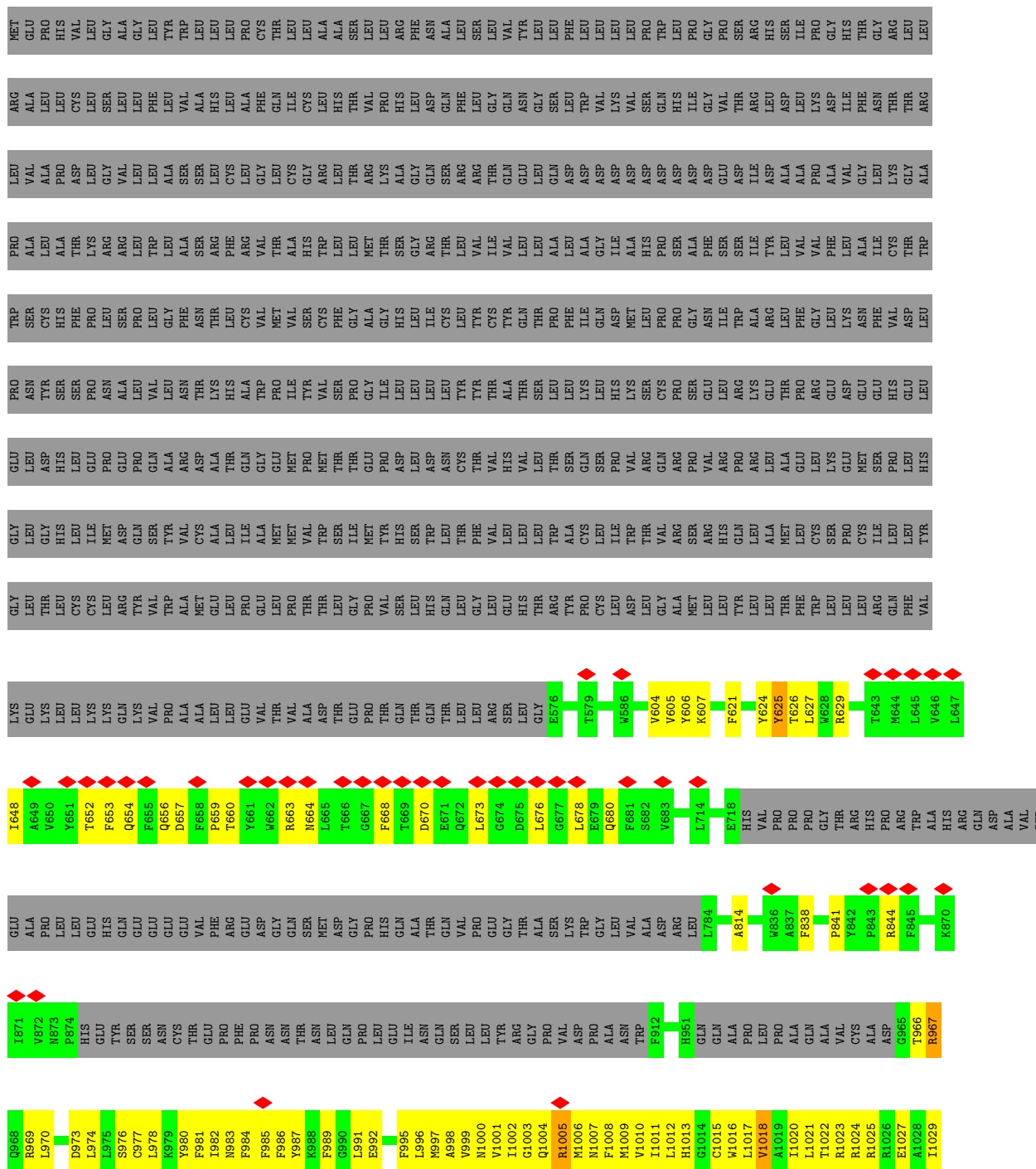
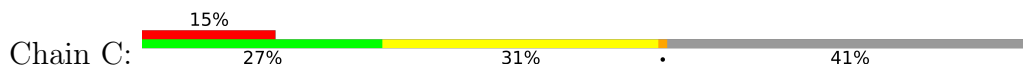


L815	W836	F838	P841	R844	F845	K870	I871	W872	N873	P874	HIS	GLU	TYR	SER	SER	ASN	ASN	CYS	THR	GLU	PRO	PHE	PRO	ASN	ASN	THR	ASN	GLN	LEU	GLU	LEU	ILE	ASN	GLN	SER	SER	LEU	LEU	TYR	ARG	GLY	PRO	VAL	ASP	PRO	ALA	ASN	TRP	F912	H951	GLN	ALA	PRO											
LEU	PRO	ALA	GLN	ALA	CYS	ASP	T965	T966	T967	T968	T969	R969	L970	D973	L974	L975	S976	L978	R979	Y980	F981	L982	N983	F984	F985	Y986	Q987	K988	F989	L990	L991	E992	F995	L996	N997	A998	Y999	M000	V0001	I0002	G0003	Q0004	R0005	M0006	N0007	F0008	M0009	V0010	I0011	L0012	H0013	G0014	C0015	M0016	L0017									
Y1018	A1019	L1020	L1021	T1022	R1023	L1024	R1025	R1026	A1027	A1028	I1029	A1030	R1031	L1032	W1033	P1034	N1035	Y1036	C1037	L1038	F1039	L1040	T1041	L1042	L1043	L1044	L1045	Y1046	Q1047	Y1048	L1049	G990	L1050	C1051	L1052	G1053	M1054	P1055	P1056	A1057	L1058	C1059	I1060	D1061	Y1062	P1063	W1064	R1065	W1066	S1067	K1068	I1069	A1070	P1071	M1072	N1073	S1074	A1075	L1076	I1077				
K1078	W1079	L1080	Y1081	L1082	P1083	F1086	R1087	P1088	N1089	S1091	T1092	M1093	L1094	I1095	S1096	D1097	F1098	L1099	L1100	L1101	L1102	S1105	Q1106	Q1107	W1108	Q1109	Y1109	V1110	F1111	S1112	E1114	R1115	T1116	E1117	E1118	W1119	Q1120	L1121	M1122	A1123	GLY	ILE	ASN	THR	ASP	HIS	LEU	GLU	PRO	LEU	LEU	ARG	G1135	E1136	P1137	M1138	P1139							
I1140	P1141	M1142	F1143	I1144	H1145	C1146	R1147	S1148	Y1149	L1150	D1151	M1152	L1153	V1155	A1156	V1157	F1158	R1159	Y1160	L1161	F1162	W1163	L1164	V1165	L1166	V1167	V1168	V1169	V1171	A1172	T1175	R1176	I1177	S1178	I1179	F1180	L1182	G1183	Y1184	L1185	L1186	A1187	C1188	F1189	Y1190	L1191	L1192	L1193	G1195	T1196	T1197	L1198	L1199	Q1200										
K1201	D1202	T1203	R1204	A1205	Q1206	L1207	V1208	S1209	W1210	D1211	C1212	L1213	I1214	L1215	N1216	Y1217	T1218	W1219	W1220	I1221	I1222	S1223	K1224	N1225	M1226	L1227	S1228	L1229	L1230	S1231	C1232	V1233	E1236	Q1237	M1238	Q1239	S1240	M1241	F1242	C1243	W1244	V1245	I1246	Q1247	A1187	L1248	F1249	S1250	L1251	V1252	V1255	LYS	GLY	TYR	ASP	PRO	LYS							
GLU	MET	MET	THR	ASP	ARG	ARG	ASP	CYS	LEU	LEU	VAL	PRO	GLU	E1277	G1278	A1279	I1280	I1281	W1282	D1283	S1284	I1285	C1286	R1287	F1288	F1289	L1290	L1291	L1292	Q1293	R1294	R1295	R1296	F1297	F1302	L1303	H1304	V1305	S1306	A1307	D1308	L1309	K1310	A1311	T1312	A1313	L1314	Q1315	A1316	S1317	G1318	R1319	F1320	A1321	L1322	Y1323	M1324	A1325						
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L1451	V1452	L1453	R1454	Q1455	R1456	R1457	E1458	F1459	A1460	R1461	Q1462	E1463	R1464	A1465	E1466	Q1467	L1468	ALA	SER	GLY	GLY	ASP	ASN	LEU	PRO	ASN	L1454	L1541	T1542	Q1543	E1544	L1545	L1546	G1549	E1550	V1551	R1552	R1553	G1554	V1555	L1556	D1557	Q1558	L1559	TYR	VAL	GLY	GLU	ASP	ALA	F1504	F1505	V1506	V1507	L1508	G1509	Q1510	A1511	V1512	V1513				
D1514	G1515	L1516	T1517	R1518	W1519	L1520	R1521	A1522	F1523	T1524	K1525	R1526	H1527	L1528	P1529	T1530	M1530	S1531	D1532	V1533	L1534	C1535	A1536	E1537	R1538	Y1539	F1540	L1541	L1542	Q1543	E1544	L1545	L1546	G1549	E1550	V1551	R1552	R1553	G1554	V1555	L1556	D1557	Q1558	L1559	TYR	VAL	GLY	GLU	ASP	ALA	F1504	F1505	V1506	V1507	L1508	G1509	Q1510	A1511	V1512	V1513				
ARG	ASP	GLY	PRO	SER	THR	ALA	SER	SER	GLY	LEU	GLY	ALA	GLU	PRO	PRO	LEU	SER	SER	THR	THR	ASP	ASP	THR	THR	SER	SER	PRO	LEU	LEU	ASP	VAL	ASN	ARG	GLY	GLY	SER	GLY	ILE	ILE	THR	THR	THR	THR	ASP	ALA	GLY	ASP	VAL	LEU	LEU	GLN	ALA	GLY	THR	SER	LEU	HIS	GLY	SER	PRO	GLN	VAL	LEU	THR
LEU	ALA	ASN	ALA	ARG	THR	ARG	MET	ARG	THR	A1645	A1652	F1655	E1656	A1657	P1657	E1658	L1659	E1660	E1661	A1662	E1663	R1664	F1665	E1666	A1667	Q1668	Q1669	G1670	R1671	T1672	R1677	A1678	G1679	Y1680	Q1681	C1682	V1683	H1686	S1687	E1688	L1689	L1690	C1691	Y1692	F1693	I1694	I1695	L1696	L1697	L1698	H1699	M1700	V1701	T1702	S1703	A1705								

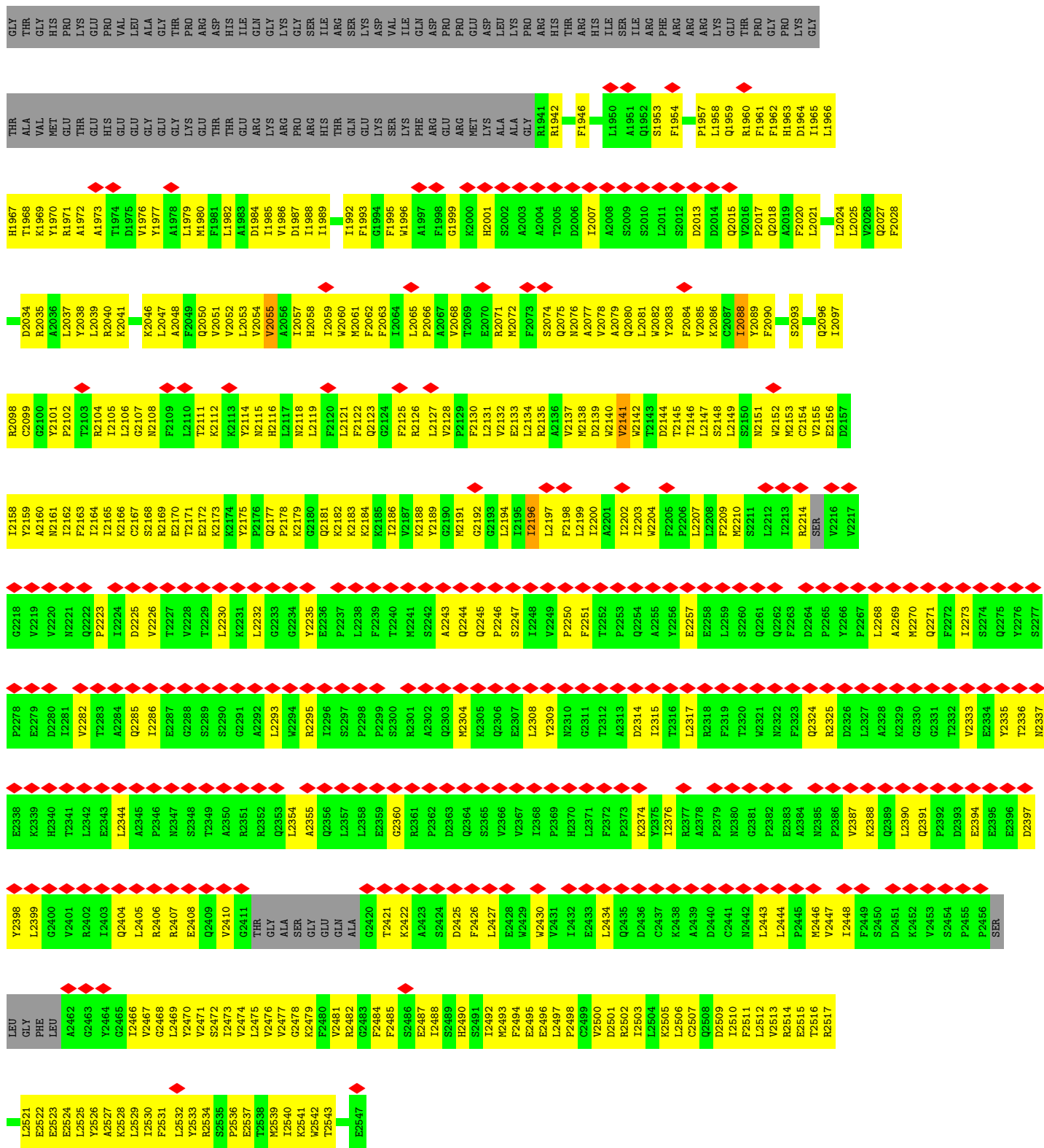
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A2269	M2270	Q2271	F2272	I2273	S2274	Q2275	Y2276	S2277	P2278	E2279	D2280	I2281	V2282	T2283	A2284	Q2285	I2286	E2287	G2288	S2289	S2290	G2291	A2292	L2293	W2294	R2295	I2296	S2297	P2298	P2299	S2300	R2301	A2302	Q2303	M2304	K2305	Q2306	E2307	L2308	Y2309	N2310	G2311	T2312	A2313	D2314	I2315	T2316	L2317	R2318	F2319	T2320	W2321	N2322	F2323	Q2324	R2325	D2326	L2327	A2328		
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PHE	ARG	ARG	GLY	THR	PRO	GLY	PRO	GLY	THR	THR	ALA	ALA	VAL	MET	PRO	LYS	THR	GLU	HIS	GLU	VAL	VAL	LEU	GLY	THR	PRO	ARG	GLY	ARG	PRO	ARG	HIS	THR	GLN	GLU	LYS	SER	PHE	ARG	GLU	ARG	H2001	MET	LYS	ASP	LEU	ALA	ALA	GLY	R1941	R1942	F1946	L1950	S1953	F1954						
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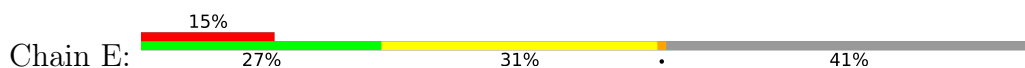
● Molecule 1: Piezo-type mechanosensitive ion channel component 1

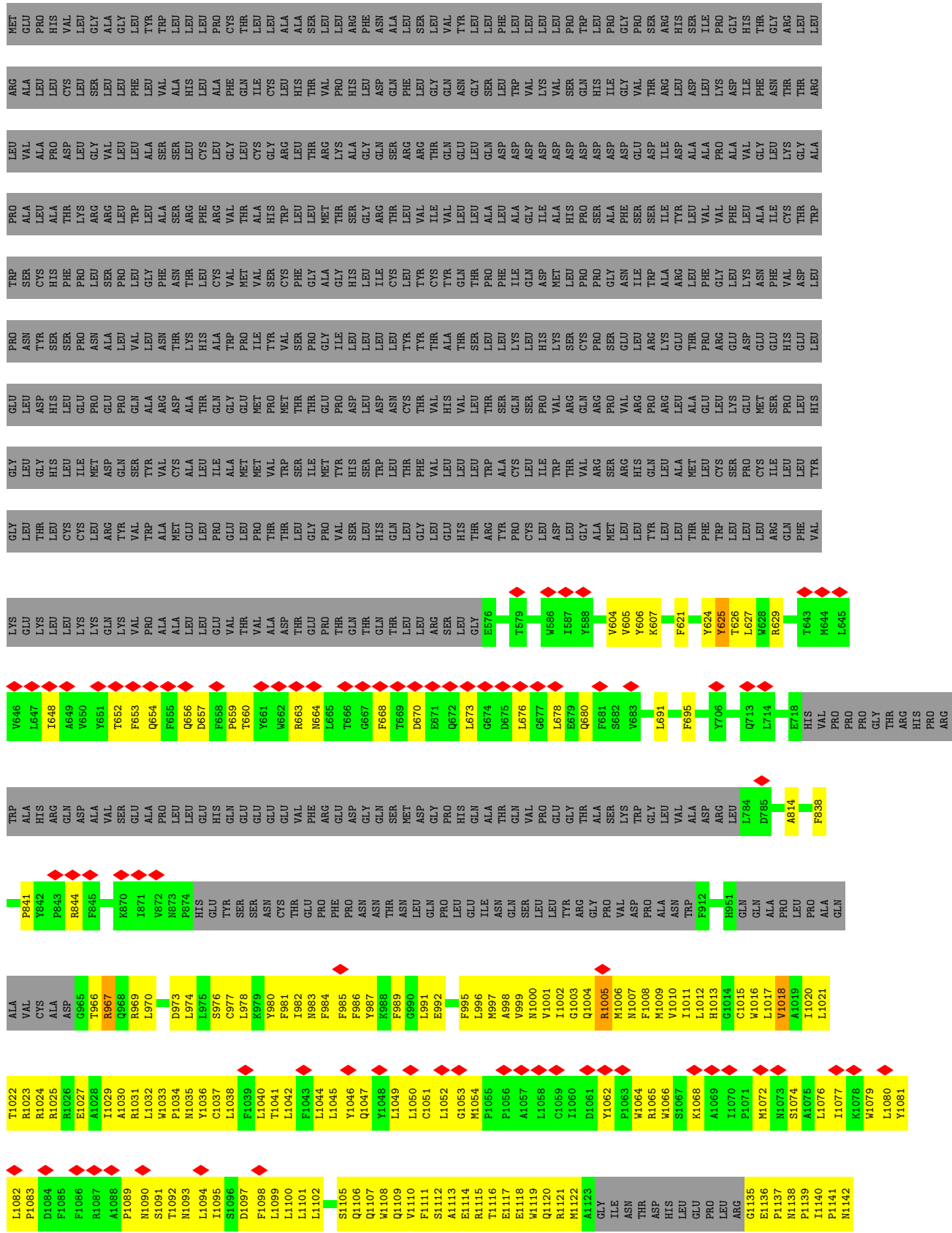


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K1784	F1796	T1721	R1528	R1464	D1401	S1341	E1277	L1214	L153	T1092	L1032
Y1785	H1796	L1722	T1529	A1465	L1402	L1342	A1278	L1215	K1154	N1093	M1033
D1786	H1797	P1723	M1530	E1466	H1403	Q1343	G1279	Y1216	V1155	L1094	P1034
L1787	H1798	R1724	S1531	Q1467	A1404	Q1344	G1279	M1217	A1156	I1095	N1035
V1788	A1662	P1725	D1532	Q1468	T1405	L1345	I1280	V1218	V1157	S1086	Y1036
Q1789	A1663	S1726	L1533	L1468	L1406	L1346	I1281	V1219	F1158	D1097	C1037
L1790	A1664	K1727	L1534	ALA	I1407	R1347	D1282	I1220	R1159	F1098	L1038
M1791	A1665	R1728	C1535	SER	H1408	Q1348	S1284	I1221	Y1160	F1099	F1039
F1794	E1666	T1729	A1536	ALA	H1408	M1349	S1284	I1222	L1161	L1100	L1041
F1795	A1667	M1730	E1537	GLY	G1409	K1350	I1285	S1283	F1162	L1101	T1042
F1796	R1668	T1731	R1538	GLY	G1410	R1351	C1286	K1224	M1163	L1102	L1043
H1796	Q1669	L1732	D1411	ASP	D1411	I1352	F1287	M1225	L1164	F1044	F1044
L1797	L1540	L1733	F1412	LEU	Y1412	R1353	F1288	M1226	V1165	Q1106	L1044
L1797	L1541	L1734	F1413	PRO	F1413	A1354	F1288	L1227	L1166	Q1107	L1045
S1798	T1542	L1735	F1414	ASP	L1414	Q1355	L1290	S1228	V1167	Y1046	Y1046
Q1799	Q1543	L1736	F1415	VAL	F1415	Q1356	L1291	L1229	W1168	Q1047	Q1047
L1800	GLU	L1737	E1416	GLU	E1416	E1357	L1292	L1230	V1169	W1108	W1108
C1802	ASN	T1737	S1417	PRO	S1417	K1358	L1293	L1231	F1170	Q1109	Q1109
Y1803	THR	E1738	L1418	VAL	L1418	R1360	R1294	V1233	F1171	F1110	L1049
G1804	ARG	M1740	G1549	ASP	GLU	R1361	R1295	E1236	A1172	F1111	L1050
L1805	GLY	V1741	E1550	VAL	GLU	Q1362	L1296	Q1237	T1175	S1112	C1051
M1806	SER	L1742	E1551	PRO	GLU	S1362	F1297	Q1238	R1176	A1113	C1051
D1807	GLU	K1743	R1552	ASP	GLU	Q1363	F1297	M1238	I1177	E1114	L1052
H1886	ILE	Y1744	R1553	GLU	GLU	SER	F1302	Q1239	M1178	R1115	G1053
S1687	VAL	L1745	G1554	MET	ALA	GLY	F1303	S1240	E1117	R1116	M1054
E1688	VAL	F1746	V1555	ALA	ALA	ARG	H1304	M1241	E1118	F1055	P1056
L1689	THR	F1747	L1556	ALA	ALA	GLY	H1304	N1241	L1179	P1056	P1056
C1691	ASP	Q1748	D1557	ALA	ALA	GLN	V1306	F1242	F1180	A1057	A1057
Y1692	ALA	L1749	L1558	ALA	ALA	LEU	S1306	C1243	G1181	L1120	L1058
F1693	ALA	P1749	L1559	ALA	ALA	LEU	S1307	M1244	G1182	R1121	A1058
I1694	LEU	PHE	T1501	M1494	ASP	GLN	D1308	V1245	G1183	M1122	C1059
I1695	LEU	PHE	Q1496	Q1496	ARG	LEU	D1309	I1246	Y1184	C1059	C1059
I1696	LEU	TRP	R1497	R1497	ARG	LYS	K1310	Q1247	L1185	I1060	I1060
I1697	LEU	ASN	T1501	M1502	ALA	ASP	A1311	L1248	L1186	D1061	D1061
I1698	LEU	GLY	Q1503	Q1503	ALA	PRO	A1312	F1249	A1187	Y1062	Y1062
M1700	GLY	GLU	F1504	F1504	ALA	GLN	A1313	S1250	C1188	P1063	P1063
T1702	GLY	ASP	L1505	L1505	ALA	ASP	Q1315	L1251	F1189	M1064	M1064
A1703	THR	THR	V1506	V1506	GLN	SER	A1316	L1252	G1189	M1065	M1065
S1704	THR	THR	Q1509	Q1509	GLN	GLN	S1317	V1285	L1191	LEU	LEU
A1705	LEU	THR	Q1510	Q1510	GLU	GLU	R1318	LYS	L1192	GLU	M1066
A1706	LEU	THR	A1511	A1511	PRO	PRO	G1319	GLY	L1193	PRO	S1067
S1707	LEU	THR	T1512	T1512	GLY	GLY	F1320	GLY	F1194	LEU	K1068
S1707	LEU	THR	V1513	V1513	GLY	GLY	A1321	TYR	G1195	ARG	A1069
L1708	ASN	THR	D1514	D1514	ASP	ASP	L1322	TYR	T1196	ARG	I1070
V1709	ALA	THR	A1515	A1515	ASP	ASP	Y1323	PRO	T1197	ASP	P1071
L1710	ARG	THR	L1516	L1516	PRO	PRO	M1324	LYS	L1198	P1138	M1072
L1711	THR	THR	T1517	T1517	PRO	PRO	A1325	GLU	L1199	P1139	M1073
P1711	ARG	THR	R1518	R1518	GLY	GLY	L1328	MET	K1201	P1140	S1074
V1712	ARG	THR	R1519	R1519	GLY	GLY	L1329	MET	D1202	P1141	A1075
L1713	ARG	THR	R1520	R1520	PRO	PRO	S1330	THR	L1076	N1142	L1076
V1714	THR	THR	R1521	R1521	PRO	PRO	I1331	ARG	I1077	F1143	I1077
F1715	THR	THR	R1522	R1522	ARG	ARG	M1332	ASP	R1204	L1144	I1078
L1716	GLY	GLY	F1523	F1523	ARG	ARG	R1333	ASP	A1205	H1145	M1078
M1717	LEU	GLY	T1524	T1524	GLN	GLN	F1333	ASP	Q1206	C1146	M1079
L1718	GLY	GLY	R1525	R1525	TRP	TRP	H1334	ASP	L1207	R1147	L1080
T1719	ALA	ALA	K1525	K1525	TRP	TRP	H1335	CYS	V1208	R1147	L1080
					ARG	ARG	I1336	LEU	Y1149	Y1149	Y1081
							I1337	PRO	L1150	L1150	L1082
							E1338		D1211	D1211	P1083
											D1084
											F1085
											F1086
											R1087
											A1088
											F1089



• Molecule 1: Piezo-type mechanosensitive ion channel component 1





D2509	L2521	L2522	E2523	E2524	L2525	Y2526	A2527	K2528	L2529	L2530	F2531	L2532	Y2533	L2534	E2535	E2537	T2538	M2539	K2540	K2541	E2542	T2543	E2547																																				
F2449	S2450	D2451	K2452	V2453	S2454	P2455	P2456	SER	LEU	GLY	PHE	A2462	G2463	Y2464	G2465	I2466	V2467	G2468	L2469	Y2470	V2471	S2472	I2473	V2474	L2475	V2476	V2477	G2478	K2479	F2480	R2481	R2482	G2483	F2484	F2485	E2486	I2488	S2489	H2490	I2492	M2493	F2494	E2495	E2496	L2497	L2498	C2499	V2500	R2501	D2502	L2503	L2504	K2505	L2506	C2507	Q2508			
K2329	G2330	G2331	T2332	V2333	E2334	Y2335	T2336	N2337	E2338	K2339	H2340	T2341	V2282	E2283	L2344	A2345	A2346	P2346	N2347	S2348	T2349	A2350	R2351	R2352	Q2353	L2354	A2355	Q2356	L2357	L2358	E2359	G2360	R2361	P2362	D2363	Q2364	S2365	V2366	V2367	I2368	Y2369	N2310	G2311	T2312	A2313	D2314	L2315	T2316	L2317	R2318	P2319	N2380	G2381	P2382	E2383	A2384	N2385	P2386	K2388
F2209	M2210	S2211	L2212	L2213	R2214	SER	V2216	V2217	G2218	V2219	V2220	M2221	Q2222	Q2223	I2224	D2225	V2226	T2227	V2228	T2229	L2230	K2231	L2232	G2233	G2234	E2235	E2236	P2237	L2238	F2239	T2240	M2241	S2242	A2243	Q2244	Q2245	P2246	S2247	I2248	V2249	P2250	F2251	T2252	P2253	Q2254	A2255	Y2256	E2257	E2258	L2259	S2260	Q2261	Q2262	F2263	D2264	P2265	Y2266	P2267	L2268
L2149	S2150	M2151	N2152	M2153	C2154	V2155	D2156	E2157	V2159	N2161	I2162	F2163	I2164	I2165	K2166	C2167	S2168	R2169	E2170	T2171	E2172	K2173	K2174	Y2175	Q2177	P2178	K2179	G2180	Q2181	K2182	K2183	K2184	K2185	I2186	V2187	K2188	Y2189	G2190	M2191	G2192	G2193	L2194	I2195	I2196	L2197	F2198	L2199	I2200	A2201	I2202	I2203	W2204	F2205	P2206	L2207	I2208			
C2087	I2088	Y2089	F2090	S2093	Q2096	I2097	R2098	C2099	G2100	Y2101	F2102	R2104	I2105	L2106	G2107	N2108	F2109	L2110	T2111	K2112	K2113	Y2114	N2115	L2116	L2117	N2118	L2119	F2120	H2068	I2069	V2062	M2061	F2062	F2063	I2064	L2065	L2066	E2070	R2071	M2072	F2073	S2074	Q2075	N2076	A2077	V2078	W2140	W2141	W2142	F2143	D2144	T2145	Y2083	F2084	V2085	K2086			
Q2018	A2019	F2020	L2021	F2022	M2023	L2024	V2026	Q2027	F2028	D2034	R2035	A2036	L2037	Y2038	L2039	R2040	K2041	K2046	L2047	L1979	A2048	F2049	Q2050	L1982	V2051	V2052	L2053	I1985	V1986	D1987	A2056	I1988	I1989	I1992	F1993	G1994	F1995	M1996	A1997	F1998	G1999	K2000	H2001	S2002	A2003	A2004	T2005	D2006	I2007	A2008	S2009	L2011	S2012	D2013	D2014	Q2015	P2017		
P1957	L1958	Q1959	R1960	F1961	F1962	H1963	D1964	I1965	L1966	H1967	T1968	K1969	Y1970	A1971	A1972	A1973	V1976	Y1977	A1978	L1979	M1980	F1981	Q2050	L1982	V2051	V2052	L2053	I1985	V1986	D1987	A2056	I1988	I1989	I1992	F1993	G1994	F1995	M1996	A1997	F1998	G1999	K2000	H2001	S2002	A2003	A2004	T2005	D2006	I2007	A2008	S2009	L2011	S2012	D2013	D2014	Q2015	P2017		

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	35012	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2400	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.137	Depositor
Minimum map value	-0.080	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.006	Depositor
Recommended contour level	0.03	Depositor
Map size (\AA)	395.28003, 395.28003, 395.28003	wwPDB
Map dimensions	180, 180, 180	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	2.196, 2.196, 2.196	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PLX

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.47	0/11796	0.69	0/16031
1	C	0.47	0/11796	0.69	0/16031
1	E	0.47	0/11796	0.69	0/16031
All	All	0.47	0/35388	0.69	0/48093

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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	11535	0	10972	1041	0
1	C	11535	0	10972	1046	0
1	E	11535	0	10972	1025	0
2	A	52	0	88	3	0
2	C	52	0	88	3	0
2	E	52	0	88	2	0
All	All	34761	0	33180	3061	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 45.

All (3061) 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:A:1700:MET:SD	1:A:2080:GLN:HB3	1.29	1.69
1:E:1700:MET:SD	1:E:2080:GLN:HB3	1.29	1.68
1:C:1700:MET:SD	1:C:2080:GLN:HB3	1.29	1.66
1:E:1700:MET:SD	1:E:2080:GLN:CB	2.22	1.28
1:A:1700:MET:SD	1:A:2080:GLN:CB	2.22	1.27
1:C:1700:MET:SD	1:C:2080:GLN:CB	2.22	1.26
1:C:1165:VAL:CG1	1:C:1293:GLN:HG3	1.69	1.23
1:A:1165:VAL:CG1	1:A:1293:GLN:HG3	1.69	1.22
1:E:1165:VAL:CG1	1:E:1293:GLN:HG3	1.69	1.20
1:E:1157:VAL:O	1:E:1161:LEU:HB2	1.48	1.13
1:C:1165:VAL:HG11	1:C:1293:GLN:CG	1.79	1.13
1:C:1157:VAL:O	1:C:1161:LEU:HB2	1.48	1.12
1:A:1157:VAL:O	1:A:1161:LEU:HB2	1.48	1.10
1:A:1165:VAL:HG11	1:A:1293:GLN:CG	1.79	1.10
1:E:1165:VAL:HG11	1:E:1293:GLN:CG	1.79	1.10
1:E:2492:ILE:HG13	1:E:2493:MET:HE3	1.28	1.10
1:C:1224:LYS:HZ1	1:C:1280:ILE:HG21	1.16	1.08
1:A:1726:SER:HB2	1:A:1729:PHE:HB3	1.33	1.07
1:C:1726:SER:HB2	1:C:1729:PHE:HB3	1.33	1.06
1:E:1726:SER:HB2	1:E:1729:PHE:HB3	1.33	1.06
1:A:2531:PHE:CE1	1:A:2534:ARG:NH2	2.24	1.06
1:C:2531:PHE:CE1	1:C:2534:ARG:NH2	2.24	1.05
1:E:2531:PHE:CE1	1:E:2534:ARG:NH2	2.24	1.05
1:E:2492:ILE:O	1:E:2493:MET:HE2	1.54	1.04
1:C:2492:ILE:HG13	1:C:2493:MET:CE	1.88	1.04
1:A:1005:ARG:NE	1:A:1010:VAL:CG1	2.21	1.03
1:A:2492:ILE:HG13	1:A:2493:MET:CE	1.88	1.03
1:C:1005:ARG:NE	1:C:1010:VAL:CG1	2.21	1.03
1:E:1005:ARG:NE	1:E:1010:VAL:CG1	2.21	1.03
1:E:1224:LYS:HZ1	1:E:1280:ILE:HG21	1.16	1.03
1:E:2492:ILE:HG13	1:E:2493:MET:CE	1.88	1.02
1:C:1165:VAL:HG11	1:C:1293:GLN:HG3	1.02	1.02
1:A:1402:ASP:CB	1:A:1405:THR:CB	2.39	1.00
1:C:1402:ASP:CB	1:C:1405:THR:CB	2.39	1.00
1:A:1165:VAL:HG11	1:A:1293:GLN:HG3	1.02	1.00
1:C:1147:ARG:HD3	1:C:1665:PHE:HB3	1.43	1.00
1:E:1402:ASP:CB	1:E:1405:THR:CB	2.39	1.00
1:E:1165:VAL:HG11	1:E:1293:GLN:HG3	1.02	0.99
1:A:1147:ARG:HD3	1:A:1665:PHE:HB3	1.43	0.99
1:A:1005:ARG:CZ	1:A:1010:VAL:HG12	1.93	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2525:LEU:HD23	1:C:2528:LYS:HZ3	1.27	0.98
1:C:1005:ARG:CZ	1:C:1010:VAL:HG12	1.93	0.98
1:E:1147:ARG:HD3	1:E:1665:PHE:HB3	1.43	0.98
1:E:1700:MET:HG3	1:E:2080:GLN:CG	1.93	0.98
1:C:1700:MET:HG3	1:C:2080:GLN:HG2	1.46	0.98
1:A:2492:ILE:O	1:A:2493:MET:HE2	1.64	0.98
1:A:1700:MET:HG3	1:A:2080:GLN:CG	1.93	0.98
1:A:1239:GLN:O	1:A:1243:CYS:SG	2.22	0.98
1:C:1719:MET:HA	1:C:2098:ARG:HH21	1.28	0.97
1:E:1239:GLN:O	1:E:1243:CYS:SG	2.22	0.97
1:C:1700:MET:HG3	1:C:2080:GLN:CG	1.93	0.97
1:E:1005:ARG:CZ	1:E:1010:VAL:HG12	1.93	0.97
1:E:1700:MET:HG3	1:E:2080:GLN:HG2	1.46	0.97
1:C:1147:ARG:HD2	1:C:1662:ALA:HA	1.46	0.97
1:E:1719:MET:HA	1:E:2098:ARG:HH21	1.28	0.97
1:A:1700:MET:HG3	1:A:2080:GLN:HG2	1.46	0.96
1:A:2492:ILE:HG13	1:A:2493:MET:HE3	1.46	0.96
1:C:1239:GLN:O	1:C:1243:CYS:SG	2.22	0.96
1:A:2295:ARG:HD2	1:C:2295:ARG:HH21	1.29	0.96
1:E:1147:ARG:HD2	1:E:1662:ALA:HA	1.46	0.96
1:A:1719:MET:HA	1:A:2098:ARG:HH21	1.28	0.95
1:C:1238:MET:O	1:C:1242:PHE:HB2	1.65	0.95
1:E:1238:MET:O	1:E:1242:PHE:HB2	1.65	0.95
1:E:2525:LEU:HD23	1:E:2528:LYS:HZ2	1.29	0.95
1:A:1238:MET:O	1:A:1242:PHE:HB2	1.65	0.95
1:C:1790:LEU:HD11	1:C:1794:PHE:CE2	2.02	0.95
1:A:1790:LEU:HD11	1:A:1794:PHE:CE2	2.02	0.94
1:C:2492:ILE:C	1:C:2493:MET:HE3	1.87	0.94
1:C:2531:PHE:HE1	1:C:2534:ARG:NH2	1.62	0.94
1:A:1147:ARG:HD2	1:A:1662:ALA:HA	1.46	0.94
1:E:1790:LEU:HD11	1:E:1794:PHE:CE2	2.02	0.94
1:A:1224:LYS:HZ1	1:A:1280:ILE:HG21	1.27	0.93
1:E:2531:PHE:HE1	1:E:2534:ARG:NH2	1.62	0.93
1:A:2531:PHE:HE1	1:A:2534:ARG:NH2	1.62	0.93
1:C:1350:LYS:HA	1:C:1353:ARG:HE	1.33	0.93
1:C:2492:ILE:O	1:C:2493:MET:HE2	1.67	0.93
1:A:2295:ARG:HH21	1:E:2295:ARG:HD2	1.30	0.93
1:A:1350:LYS:HA	1:A:1353:ARG:HE	1.33	0.93
1:C:1005:ARG:NE	1:C:1010:VAL:HG12	1.85	0.92
1:E:1013:HIS:HA	1:E:1016:TRP:HD1	1.33	0.92
1:C:1013:HIS:HA	1:C:1016:TRP:HD1	1.33	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1005:ARG:NE	1:E:1010:VAL:HG11	1.86	0.91
1:E:1350:LYS:HA	1:E:1353:ARG:HE	1.33	0.91
1:C:2492:ILE:HG13	1:C:2493:MET:HE3	1.51	0.91
1:C:2295:ARG:HD2	1:E:2295:ARG:HH21	1.30	0.91
1:A:1442:TYR:CD1	1:A:2175:TYR:HD1	1.90	0.90
1:C:1790:LEU:CD1	1:C:1794:PHE:CE2	2.54	0.90
1:E:1790:LEU:CD1	1:E:1794:PHE:HE2	1.84	0.90
1:A:1013:HIS:HA	1:A:1016:TRP:HD1	1.33	0.90
1:C:1005:ARG:NE	1:C:1010:VAL:HG11	1.86	0.90
1:C:2492:ILE:O	1:C:2493:MET:CE	2.20	0.90
1:A:2492:ILE:O	1:A:2493:MET:CE	2.20	0.90
1:A:2492:ILE:C	1:A:2493:MET:HE3	1.91	0.90
1:E:1442:TYR:CD1	1:E:2175:TYR:HD1	1.90	0.90
1:A:1790:LEU:CD1	1:A:1794:PHE:HE2	1.84	0.90
1:E:2071:ARG:HH12	1:E:2079:ALA:H	1.19	0.90
1:C:1442:TYR:CD1	1:C:2175:TYR:HD1	1.90	0.89
1:E:1790:LEU:CD1	1:E:1794:PHE:CE2	2.54	0.89
1:E:1157:VAL:HA	1:E:1161:LEU:HD23	1.54	0.89
1:C:2183:LYS:HB3	1:C:2188:LYS:HZ1	1.38	0.89
1:A:1790:LEU:CD1	1:A:1794:PHE:CE2	2.54	0.89
1:C:1790:LEU:CD1	1:C:1794:PHE:HE2	1.84	0.89
1:A:1099:LEU:HD13	1:A:1102:LEU:HD21	1.55	0.89
1:C:1157:VAL:HA	1:C:1161:LEU:HD23	1.54	0.89
1:E:2183:LYS:HB3	1:E:2188:LYS:HZ1	1.38	0.89
1:C:1005:ARG:HH12	1:C:1011:ILE:HG13	1.38	0.88
1:E:1694:ILE:HG21	1:E:1789:GLN:HB3	1.56	0.88
1:E:2492:ILE:O	1:E:2493:MET:CE	2.20	0.88
1:A:1005:ARG:NE	1:A:1010:VAL:HG11	1.86	0.88
1:A:1224:LYS:HZ3	1:A:1224:LYS:HB2	1.39	0.88
1:E:1005:ARG:NE	1:E:1010:VAL:HG12	1.85	0.88
1:A:2071:ARG:HH12	1:A:2079:ALA:H	1.19	0.87
1:E:1005:ARG:HH12	1:E:1011:ILE:HG13	1.38	0.87
1:A:2183:LYS:HB3	1:A:2188:LYS:HZ1	1.38	0.87
1:A:1005:ARG:HH12	1:A:1011:ILE:HG13	1.38	0.87
1:A:1238:MET:HA	1:A:1242:PHE:CD2	2.10	0.87
1:C:1099:LEU:HD13	1:C:1102:LEU:HD21	1.55	0.87
1:A:2041:LYS:HB2	1:A:2102:PRO:HG2	1.58	0.86
1:E:1099:LEU:HD13	1:E:1102:LEU:HD21	1.55	0.86
1:C:2071:ARG:HH12	1:C:2079:ALA:H	1.19	0.86
1:A:1694:ILE:HG21	1:A:1789:GLN:HB3	1.56	0.86
1:E:1238:MET:HA	1:E:1242:PHE:CD2	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1238:MET:HA	1:E:1242:PHE:HD2	1.39	0.86
1:C:1238:MET:HA	1:C:1242:PHE:CD2	2.10	0.86
1:C:2039:LEU:HD12	1:C:2040:ARG:HG2	1.58	0.86
1:A:1157:VAL:HA	1:A:1161:LEU:HD23	1.54	0.86
1:A:1713:LEU:HD12	1:A:1713:LEU:O	1.76	0.86
1:E:2039:LEU:HD12	1:E:2040:ARG:HG2	1.58	0.86
1:A:1005:ARG:HD2	1:A:1006:MET:H	1.41	0.85
1:E:1713:LEU:HD12	1:E:1713:LEU:O	1.76	0.85
1:C:1238:MET:HA	1:C:1242:PHE:HD2	1.39	0.85
1:C:1694:ILE:HG21	1:C:1789:GLN:HB3	1.56	0.85
1:C:1713:LEU:HD12	1:C:1713:LEU:O	1.77	0.85
1:E:2041:LYS:HB2	1:E:2102:PRO:HG2	1.58	0.85
1:A:1238:MET:HA	1:A:1242:PHE:HD2	1.39	0.85
1:E:1005:ARG:HD2	1:E:1006:MET:H	1.41	0.85
1:A:2525:LEU:HD23	1:A:2528:LYS:HZ2	1.41	0.85
1:C:1005:ARG:HD2	1:C:1006:MET:H	1.41	0.85
1:C:2041:LYS:HB2	1:C:2102:PRO:HG2	1.58	0.85
1:A:1005:ARG:NE	1:A:1010:VAL:HG12	1.85	0.84
1:A:2039:LEU:HD12	1:A:2040:ARG:HG2	1.58	0.84
1:C:1401:LEU:HA	1:E:2179:LYS:CB	2.07	0.84
1:A:1401:LEU:HA	1:C:2179:LYS:CB	2.08	0.84
1:C:2492:ILE:HG13	1:C:2493:MET:HE1	1.58	0.84
1:E:1973:ALA:HB3	1:E:2099:CYS:HB3	1.60	0.83
1:A:1005:ARG:CZ	1:A:1010:VAL:CG1	2.57	0.83
1:A:1005:ARG:HG2	1:A:1010:VAL:HG11	1.59	0.83
1:A:1973:ALA:HB3	1:A:2099:CYS:HB3	1.60	0.83
1:A:2179:LYS:CB	1:E:1401:LEU:HA	2.08	0.83
1:C:1005:ARG:HG2	1:C:1010:VAL:HG11	1.59	0.83
1:C:1551:VAL:HG22	1:C:1554:GLY:H	1.44	0.83
1:E:1005:ARG:HG2	1:E:1010:VAL:HG11	1.59	0.83
1:E:1040:LEU:HB2	1:E:1100:LEU:HD21	1.61	0.83
1:E:1700:MET:CG	1:E:2080:GLN:HG2	2.09	0.82
1:C:1973:ALA:HB3	1:C:2099:CYS:HB3	1.60	0.82
1:A:1002:ILE:HA	1:A:1005:ARG:NE	1.95	0.82
1:C:1002:ILE:HA	1:C:1005:ARG:NE	1.95	0.82
1:A:1700:MET:CG	1:A:2080:GLN:HG2	2.09	0.82
1:C:2510:ILE:HD13	1:C:2525:LEU:HB2	1.62	0.82
1:E:1551:VAL:HG22	1:E:1554:GLY:H	1.44	0.82
1:C:1700:MET:CG	1:C:2080:GLN:HG2	2.09	0.82
1:A:1551:VAL:HG22	1:A:1554:GLY:H	1.44	0.81
1:E:1002:ILE:HA	1:E:1005:ARG:NE	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1030:ALA:HA	1:A:1033:TRP:HD1	1.46	0.81
1:C:1040:LEU:HB2	1:C:1100:LEU:HD21	1.61	0.81
1:C:1005:ARG:CZ	1:C:1010:VAL:CG1	2.57	0.80
1:E:1005:ARG:CZ	1:E:1010:VAL:CG1	2.57	0.80
1:A:1040:LEU:HB2	1:A:1100:LEU:HD21	1.61	0.80
1:A:1722:ILE:HD13	1:A:1971:ARG:HD3	1.64	0.80
1:C:1030:ALA:HA	1:C:1033:TRP:HD1	1.46	0.80
1:C:1790:LEU:HD11	1:C:1794:PHE:HE2	1.41	0.80
1:A:2510:ILE:HD13	1:A:2525:LEU:HB2	1.62	0.80
1:C:2051:VAL:O	1:C:2055:VAL:HG13	1.82	0.80
1:C:2293:LEU:HD11	1:C:2427:LEU:HD23	1.64	0.80
1:E:2078:VAL:HA	1:E:2081:LEU:HD12	1.64	0.79
1:A:1976:VAL:H	1:A:2096:GLN:HE22	1.31	0.79
1:E:2051:VAL:O	1:E:2055:VAL:HG13	1.81	0.79
1:C:2078:VAL:HA	1:C:2081:LEU:HD12	1.64	0.79
1:E:1030:ALA:HA	1:E:1033:TRP:HD1	1.46	0.79
1:E:1976:VAL:H	1:E:2096:GLN:HE22	1.31	0.79
1:E:2510:ILE:HD13	1:E:2525:LEU:HB2	1.62	0.79
1:C:1722:ILE:HD13	1:C:1971:ARG:HD3	1.64	0.79
1:E:2293:LEU:HD11	1:E:2427:LEU:HD23	1.64	0.79
1:A:1224:LYS:HB2	1:A:1224:LYS:NZ	1.98	0.79
1:E:2492:ILE:C	1:E:2493:MET:CE	2.52	0.79
1:A:1790:LEU:CG	1:A:1794:PHE:HE2	1.97	0.78
1:A:2078:VAL:HA	1:A:2081:LEU:HD12	1.64	0.78
1:A:2492:ILE:HG13	1:A:2493:MET:HE1	1.63	0.78
1:C:1790:LEU:CG	1:C:1794:PHE:HE2	1.97	0.78
1:A:2051:VAL:O	1:A:2055:VAL:HG13	1.81	0.78
1:A:2492:ILE:C	1:A:2493:MET:CE	2.52	0.78
1:E:1722:ILE:HD13	1:E:1971:ARG:HD3	1.64	0.78
1:E:1224:LYS:HB2	1:E:1224:LYS:NZ	1.98	0.78
1:A:1345:LEU:O	1:A:1348:GLN:HB3	1.84	0.78
1:C:1297:PHE:HA	1:C:1302:PHE:CZ	2.19	0.78
1:E:1345:LEU:O	1:E:1348:GLN:HB3	1.84	0.78
1:C:1224:LYS:HB2	1:C:1224:LYS:NZ	1.98	0.78
1:A:992:GLU:OE1	1:A:992:GLU:N	2.18	0.78
1:C:1976:VAL:H	1:C:2096:GLN:HE22	1.31	0.78
1:C:1345:LEU:O	1:C:1348:GLN:HB3	1.84	0.77
1:A:1297:PHE:HA	1:A:1302:PHE:CZ	2.19	0.77
1:A:2034:ASP:OD1	1:A:2035:ARG:N	2.18	0.77
1:A:2387:VAL:HG11	1:A:2390:LEU:HD23	1.66	0.77
1:A:2293:LEU:HD11	1:A:2427:LEU:HD23	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2126:ARG:O	1:C:2126:ARG:NE	2.16	0.77
1:E:1790:LEU:HD11	1:E:1794:PHE:HE2	1.42	0.77
1:A:2295:ARG:HD2	1:C:2295:ARG:NH2	1.99	0.77
1:C:2492:ILE:C	1:C:2493:MET:CE	2.52	0.77
1:E:992:GLU:OE1	1:E:992:GLU:N	2.17	0.77
1:E:2081:LEU:HD23	1:E:2084:PHE:HE1	1.50	0.77
1:C:992:GLU:N	1:C:992:GLU:OE1	2.17	0.77
1:E:2387:VAL:HG11	1:E:2390:LEU:HD23	1.66	0.77
1:E:2493:MET:HE2	1:E:2493:MET:HA	1.65	0.77
1:A:2081:LEU:HD23	1:A:2084:PHE:HE1	1.50	0.76
1:A:2295:ARG:NH2	1:E:2295:ARG:HD2	2.01	0.76
1:C:2081:LEU:HD23	1:C:2084:PHE:HE1	1.50	0.76
1:E:1297:PHE:HA	1:E:1302:PHE:CZ	2.19	0.76
1:A:2525:LEU:HA	1:A:2528:LYS:HG2	1.67	0.76
1:E:2525:LEU:HD23	1:E:2528:LYS:NZ	2.01	0.76
1:C:2387:VAL:HG11	1:C:2390:LEU:HD23	1.66	0.76
1:E:1790:LEU:CG	1:E:1794:PHE:HE2	1.97	0.76
1:E:1668:GLN:NE2	1:E:1669:GLN:OE1	2.19	0.76
1:A:2243:ALA:HB1	1:A:2247:SER:HB2	1.68	0.76
1:A:2524:GLU:HG2	1:A:2528:LYS:HZ1	1.49	0.76
1:C:2034:ASP:OD1	1:C:2035:ARG:N	2.18	0.76
1:A:1668:GLN:NE2	1:A:1669:GLN:OE1	2.19	0.76
1:E:1786:ASP:O	1:E:1789:GLN:HG2	1.86	0.76
1:C:2295:ARG:HD2	1:E:2295:ARG:NH2	2.00	0.75
1:E:2243:ALA:HB1	1:E:2247:SER:HB2	1.68	0.75
1:C:2525:LEU:HD23	1:C:2528:LYS:NZ	2.01	0.75
1:C:1786:ASP:O	1:C:1789:GLN:HG2	1.86	0.75
1:A:1786:ASP:O	1:A:1789:GLN:HG2	1.86	0.75
1:A:2525:LEU:HD23	1:A:2528:LYS:NZ	2.01	0.75
1:C:1668:GLN:NE2	1:C:1669:GLN:OE1	2.19	0.75
1:A:1346:LYS:O	1:A:1349:MET:HG3	1.87	0.75
1:A:1790:LEU:HD11	1:A:1794:PHE:HE2	1.42	0.75
1:C:2525:LEU:HA	1:C:2528:LYS:HG2	1.68	0.75
1:E:2034:ASP:OD1	1:E:2035:ARG:N	2.18	0.75
1:A:2126:ARG:O	1:A:2126:ARG:NE	2.16	0.75
1:A:1005:ARG:NH2	1:A:1010:VAL:HG12	2.02	0.74
1:A:1963:HIS:O	1:A:1967:HIS:ND1	2.20	0.74
1:C:1005:ARG:NH2	1:C:1010:VAL:HG12	2.02	0.74
1:C:2243:ALA:HB1	1:C:2247:SER:HB2	1.68	0.74
1:A:1700:MET:CG	1:A:2080:GLN:CG	2.65	0.74
1:C:2061:MET:HA	1:C:2066:PRO:HG3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2126:ARG:O	1:E:2126:ARG:NE	2.16	0.74
1:A:1193:LEU:HA	1:A:1797:ARG:HH12	1.51	0.74
1:E:1005:ARG:NH2	1:E:1010:VAL:HG12	2.02	0.74
1:E:1042:LEU:HD13	1:E:1045:LEU:HD21	1.70	0.74
1:A:1694:ILE:HD13	1:A:1697:LEU:HD21	1.70	0.74
1:E:1346:LYS:O	1:E:1349:MET:HG3	1.87	0.74
1:E:1700:MET:CG	1:E:2080:GLN:CG	2.65	0.74
1:E:1963:HIS:O	1:E:1967:HIS:ND1	2.20	0.74
1:C:1193:LEU:HA	1:C:1797:ARG:HH12	1.51	0.74
1:E:2525:LEU:HA	1:E:2528:LYS:HG2	1.68	0.74
1:C:1042:LEU:HD13	1:C:1045:LEU:HD21	1.70	0.74
1:C:1346:LYS:O	1:C:1349:MET:HG3	1.87	0.73
1:E:1193:LEU:HA	1:E:1797:ARG:HH12	1.51	0.73
1:A:2467:VAL:HG11	1:E:2007:ILE:HG12	1.70	0.73
1:C:1963:HIS:O	1:C:1967:HIS:ND1	2.20	0.73
1:E:2046:LYS:HD3	1:E:2097:ILE:HG23	1.71	0.73
1:A:1042:LEU:HD13	1:A:1045:LEU:HD21	1.70	0.73
1:C:1694:ILE:HD13	1:C:1697:LEU:HD21	1.70	0.73
1:E:1329:LYS:HA	1:E:1332:ASN:ND2	2.03	0.73
1:A:1329:LYS:HA	1:A:1332:ASN:ND2	2.03	0.73
1:A:2046:LYS:HD3	1:A:2097:ILE:HG23	1.71	0.73
1:A:2007:ILE:HG12	1:C:2467:VAL:HG11	1.71	0.73
1:A:2061:MET:HA	1:A:2066:PRO:HG3	1.70	0.73
1:C:1329:LYS:HA	1:C:1332:ASN:ND2	2.03	0.73
1:C:2046:LYS:HD3	1:C:2097:ILE:HG23	1.71	0.73
1:E:2235:TYR:CD2	1:E:2304:MET:HG3	2.24	0.72
1:A:1005:ARG:CG	1:A:1010:VAL:HG11	2.19	0.72
1:E:1005:ARG:CG	1:E:1010:VAL:HG11	2.19	0.72
1:C:2235:TYR:CD2	1:C:2304:MET:HG3	2.24	0.72
1:E:2061:MET:HA	1:E:2066:PRO:HG3	1.70	0.72
1:A:1147:ARG:HH22	1:A:1666:GLU:HB2	1.55	0.72
1:C:1005:ARG:CD	1:C:1010:VAL:HG11	2.19	0.72
1:C:1147:ARG:HH22	1:C:1666:GLU:HB2	1.55	0.72
1:E:1005:ARG:CD	1:E:1010:VAL:HG11	2.19	0.72
1:E:2325:ARG:NH1	1:E:2336:THR:OG1	2.23	0.72
1:C:2524:GLU:HG2	1:C:2528:LYS:NZ	2.05	0.72
1:E:2492:ILE:C	1:E:2493:MET:HE3	2.09	0.72
1:A:1957:PRO:HA	1:A:1960:ARG:HD3	1.72	0.72
1:A:2524:GLU:HG2	1:A:2528:LYS:NZ	2.05	0.72
1:C:1005:ARG:HH12	1:C:1011:ILE:CG1	2.02	0.72
1:C:2007:ILE:HG12	1:E:2467:VAL:HG11	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1224:LYS:NZ	1:A:1280:ILE:HG21	2.03	0.72
1:C:2325:ARG:NH1	1:C:2336:THR:OG1	2.23	0.72
1:C:1218:VAL:HA	1:C:1221:ILE:HD12	1.72	0.72
1:E:1694:ILE:HD13	1:E:1697:LEU:HD21	1.70	0.72
1:A:1005:ARG:HH12	1:A:1011:ILE:CG1	2.02	0.71
1:E:2524:GLU:HG2	1:E:2528:LYS:NZ	2.05	0.71
1:A:1005:ARG:CD	1:A:1010:VAL:HG11	2.19	0.71
1:E:1957:PRO:HA	1:E:1960:ARG:HD3	1.72	0.71
1:A:2325:ARG:NH1	1:A:2336:THR:OG1	2.23	0.71
1:E:1147:ARG:HH22	1:E:1666:GLU:HB2	1.55	0.71
1:E:1218:VAL:HA	1:E:1221:ILE:HD12	1.72	0.71
1:E:2041:LYS:HD3	1:E:2046:LYS:HZ1	1.55	0.71
1:A:1218:VAL:HA	1:A:1221:ILE:HD12	1.72	0.71
1:A:1343:ALA:O	1:A:1347:ARG:N	2.23	0.71
1:A:2235:TYR:CD2	1:A:2304:MET:HG3	2.24	0.71
1:C:1521:ARG:HH12	1:C:1528:ARG:HH12	1.39	0.71
1:C:1700:MET:CG	1:C:2080:GLN:CG	2.65	0.71
1:E:1005:ARG:HH12	1:E:1011:ILE:CG1	2.02	0.71
1:A:1521:ARG:HH12	1:A:1528:ARG:HH12	1.39	0.71
1:C:1005:ARG:CG	1:C:1010:VAL:HG11	2.19	0.71
1:E:1343:ALA:O	1:E:1347:ARG:N	2.23	0.71
1:A:2071:ARG:HH11	1:A:2076:ASN:HA	1.56	0.70
1:C:2058:HIS:HA	1:C:2062:PHE:CD2	2.27	0.70
1:E:1352:ILE:HA	1:E:1355:LYS:HD2	1.73	0.70
1:A:2037:LEU:HD21	1:A:2046:LYS:HG2	1.74	0.70
1:A:1005:ARG:HH22	1:A:1011:ILE:HA	1.56	0.70
1:C:1957:PRO:HA	1:C:1960:ARG:HD3	1.72	0.70
1:E:1146:CYS:HB3	1:E:1151:ASP:CG	2.12	0.70
1:E:2058:HIS:HA	1:E:2062:PHE:CD2	2.27	0.70
1:C:2507:CYS:O	1:C:2510:ILE:HG22	1.91	0.70
1:A:1352:ILE:HA	1:A:1355:LYS:HD2	1.73	0.70
1:A:1021:LEU:O	1:A:1024:ARG:NH2	2.24	0.70
1:A:2507:CYS:O	1:A:2510:ILE:HG22	1.92	0.70
1:C:1002:ILE:HA	1:C:1005:ARG:HE	1.57	0.70
1:E:1007:ASN:OD1	1:E:1008:PHE:N	2.25	0.70
1:E:1021:LEU:O	1:E:1024:ARG:NH2	2.25	0.70
1:E:2037:LEU:HD21	1:E:2046:LYS:HG2	1.74	0.70
1:E:2071:ARG:HH11	1:E:2076:ASN:HA	1.56	0.70
1:E:2507:CYS:O	1:E:2510:ILE:HG22	1.92	0.70
1:A:984:PHE:HA	1:A:987:TYR:CE1	2.27	0.70
1:E:1521:ARG:HH12	1:E:1528:ARG:HH12	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1147:ARG:HH11	1:E:1152:MET:HE3	1.57	0.69
1:C:984:PHE:HA	1:C:987:TYR:CE1	2.27	0.69
1:C:1021:LEU:O	1:C:1024:ARG:NH2	2.24	0.69
1:C:1146:CYS:HB3	1:C:1151:ASP:CG	2.12	0.69
1:C:969:ARG:HG2	1:C:976:SER:HB2	1.74	0.69
1:C:2071:ARG:HH11	1:C:2076:ASN:HA	1.56	0.69
1:E:2492:ILE:CG1	1:E:2493:MET:HE3	2.14	0.69
1:A:1013:HIS:HA	1:A:1016:TRP:CD1	2.24	0.69
1:A:1146:CYS:HB3	1:A:1151:ASP:CG	2.12	0.69
1:C:2041:LYS:HD3	1:C:2046:LYS:HZ1	1.57	0.69
1:A:969:ARG:HG2	1:A:976:SER:HB2	1.74	0.69
1:A:1007:ASN:OD1	1:A:1008:PHE:N	2.25	0.69
1:C:983:ASN:HA	1:C:986:PHE:CE2	2.28	0.69
1:C:2037:LEU:HD21	1:C:2046:LYS:HG2	1.74	0.69
1:E:984:PHE:HA	1:E:987:TYR:CE1	2.27	0.69
1:E:1671:ARG:NH1	1:E:1672:THR:OG1	2.26	0.69
1:C:1005:ARG:HH22	1:C:1011:ILE:HA	1.56	0.69
1:C:1147:ARG:HH11	1:C:1152:MET:HE3	1.58	0.69
1:C:1671:ARG:NH1	1:C:1672:THR:OG1	2.26	0.69
1:A:1671:ARG:NH1	1:A:1672:THR:OG1	2.26	0.69
1:C:1352:ILE:HA	1:C:1355:LYS:HD2	1.73	0.69
1:E:1005:ARG:HH22	1:E:1011:ILE:HA	1.56	0.69
1:A:983:ASN:HA	1:A:986:PHE:CE2	2.28	0.69
1:A:2058:HIS:HA	1:A:2062:PHE:CD2	2.27	0.69
1:C:1007:ASN:OD1	1:C:1008:PHE:N	2.25	0.69
1:C:1984:ASP:O	1:C:1988:ILE:HD12	1.93	0.69
1:A:1341:SER:HA	1:A:1344:GLN:OE1	1.93	0.68
1:C:1343:ALA:O	1:C:1347:ARG:N	2.23	0.68
1:C:2080:GLN:OE1	1:C:2080:GLN:N	2.26	0.68
1:E:1341:SER:HA	1:E:1344:GLN:OE1	1.93	0.68
1:A:2137:VAL:O	1:A:2141:VAL:HG12	1.93	0.68
1:C:1401:LEU:HD23	1:C:1401:LEU:N	2.09	0.68
1:E:969:ARG:HG2	1:E:976:SER:HB2	1.74	0.68
1:C:1013:HIS:HA	1:C:1016:TRP:CD1	2.24	0.68
1:E:1977:TYR:CE1	1:E:2038:TYR:HB2	2.29	0.68
1:C:2166:LYS:HE2	1:C:2500:VAL:HG12	1.75	0.68
1:E:983:ASN:HA	1:E:986:PHE:CE2	2.28	0.68
1:E:1002:ILE:HA	1:E:1005:ARG:HE	1.57	0.68
1:E:1401:LEU:N	1:E:1401:LEU:HD23	2.09	0.68
1:E:2080:GLN:N	1:E:2080:GLN:OE1	2.26	0.68
1:A:1689:LEU:HA	1:A:1692:TYR:CD2	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1977:TYR:CE1	1:A:2038:TYR:HB2	2.29	0.68
1:C:1242:PHE:HA	1:C:1245:VAL:HB	1.76	0.68
1:E:1013:HIS:HA	1:E:1016:TRP:CD1	2.23	0.68
1:A:984:PHE:HA	1:A:987:TYR:CD1	2.29	0.68
1:C:1341:SER:HA	1:C:1344:GLN:OE1	1.93	0.68
1:C:2137:VAL:O	1:C:2141:VAL:HG12	1.93	0.68
1:E:1291:LEU:O	1:E:1294:ARG:HD3	1.94	0.68
1:A:981:PHE:O	1:A:985:PHE:HB2	1.94	0.68
1:A:1002:ILE:HA	1:A:1005:ARG:HE	1.57	0.68
1:A:1291:LEU:O	1:A:1294:ARG:HD3	1.94	0.68
1:A:2153:MET:HA	1:A:2156:GLU:OE1	1.94	0.68
1:E:2137:VAL:O	1:E:2141:VAL:HG12	1.93	0.68
1:E:2166:LYS:HE2	1:E:2500:VAL:HG12	1.75	0.68
1:C:1731:MET:HA	1:C:1734:ILE:HG12	1.76	0.68
1:E:1984:ASP:O	1:E:1988:ILE:HD12	1.93	0.68
1:E:2531:PHE:CE1	1:E:2534:ARG:CZ	2.77	0.68
1:E:1689:LEU:HA	1:E:1692:TYR:CD2	2.29	0.67
1:E:1731:MET:HA	1:E:1734:ILE:HG12	1.76	0.67
1:A:1401:LEU:N	1:A:1401:LEU:HD23	2.09	0.67
1:C:984:PHE:HA	1:C:987:TYR:CD1	2.29	0.67
1:E:1009:MET:O	1:E:1012:LEU:HG	1.94	0.67
1:A:2083:TYR:HA	1:A:2086:LYS:HZ3	1.58	0.67
1:A:2531:PHE:CE1	1:A:2534:ARG:CZ	2.77	0.67
1:C:1657:PRO:HA	1:C:1660:GLU:OE2	1.95	0.67
1:E:1007:ASN:O	1:E:1011:ILE:HG13	1.94	0.67
1:A:2080:GLN:OE1	1:A:2080:GLN:N	2.26	0.67
1:A:2166:LYS:HE2	1:A:2500:VAL:HG12	1.75	0.67
1:C:981:PHE:O	1:C:985:PHE:HB2	1.94	0.67
1:C:1334:HIS:CE1	1:C:1972:ALA:HB1	2.30	0.67
1:C:1977:TYR:CE1	1:C:2038:TYR:HB2	2.29	0.67
1:E:984:PHE:HA	1:E:987:TYR:CD1	2.29	0.67
1:E:2531:PHE:HE1	1:E:2534:ARG:HH22	1.42	0.67
1:A:1007:ASN:O	1:A:1011:ILE:HG13	1.94	0.67
1:A:1711:PRO:HA	1:A:1714:VAL:HG22	1.77	0.67
1:A:1984:ASP:O	1:A:1988:ILE:HD12	1.93	0.67
1:C:1711:PRO:HA	1:C:1714:VAL:HG22	1.77	0.67
1:C:2153:MET:HA	1:C:2156:GLU:OE1	1.94	0.67
1:E:1657:PRO:HA	1:E:1660:GLU:OE2	1.95	0.67
1:A:1242:PHE:HA	1:A:1245:VAL:HB	1.76	0.67
1:A:1328:LEU:HD23	1:A:1332:ASN:HD22	1.60	0.67
1:A:2531:PHE:HE1	1:A:2534:ARG:HH22	1.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2531:PHE:CE1	1:C:2534:ARG:CZ	2.77	0.67
1:C:1356:GLN:NE2	1:C:1357:GLU:OE1	2.28	0.67
1:A:1200:GLN:HG2	1:A:1309:LEU:HB2	1.77	0.67
1:A:1334:HIS:CE1	1:A:1972:ALA:HB1	2.30	0.67
1:A:1687:SER:O	1:A:1796:HIS:ND1	2.28	0.67
1:C:1009:MET:O	1:C:1012:LEU:HG	1.94	0.67
1:C:1291:LEU:O	1:C:1294:ARG:HD3	1.94	0.67
1:C:1328:LEU:HD23	1:C:1332:ASN:HD22	1.60	0.67
1:C:2166:LYS:HD3	1:C:2169:ARG:HH11	1.59	0.67
1:C:2523:GLU:OE2	1:E:2182:LYS:NZ	2.28	0.67
1:E:981:PHE:O	1:E:985:PHE:HB2	1.94	0.67
1:E:1328:LEU:HD23	1:E:1332:ASN:HD22	1.60	0.67
1:A:2152:TRP:NE1	1:A:2156:GLU:OE2	2.28	0.67
1:E:1242:PHE:HA	1:E:1245:VAL:HB	1.76	0.67
1:A:2210:MET:O	1:A:2214:ARG:NH1	2.27	0.66
1:C:1710:LEU:HG	1:C:1711:PRO:HD3	1.77	0.66
1:E:1711:PRO:HA	1:E:1714:VAL:HG22	1.77	0.66
1:E:2153:MET:HA	1:E:2156:GLU:OE1	1.94	0.66
1:C:1689:LEU:HA	1:C:1692:TYR:CD2	2.29	0.66
1:A:2082:TRP:O	1:A:2086:LYS:HG3	1.95	0.66
1:C:604:VAL:O	1:C:607:LYS:N	2.28	0.66
1:C:2210:MET:O	1:C:2214:ARG:NH1	2.28	0.66
1:E:1005:ARG:HD2	1:E:1006:MET:N	2.10	0.66
1:E:2210:MET:O	1:E:2214:ARG:NH1	2.28	0.66
1:A:604:VAL:O	1:A:607:LYS:N	2.28	0.66
1:A:1657:PRO:HA	1:A:1660:GLU:OE2	1.95	0.66
1:C:1007:ASN:O	1:C:1011:ILE:HG13	1.94	0.66
1:A:2182:LYS:NZ	1:E:2523:GLU:OE2	2.29	0.66
1:C:1306:SER:O	1:C:1309:LEU:HG	1.96	0.66
1:C:2524:GLU:HG2	1:C:2528:LYS:HZ2	1.60	0.66
1:E:1029:ILE:HG22	1:E:1033:TRP:NE1	2.11	0.66
1:A:2082:TRP:NE1	1:A:2086:LYS:HD3	2.11	0.66
1:A:2166:LYS:HD3	1:A:2169:ARG:HH11	1.59	0.66
1:E:1334:HIS:CE1	1:E:1972:ALA:HB1	2.30	0.66
1:E:1356:GLN:NE2	1:E:1357:GLU:OE1	2.28	0.66
1:C:1336:GLN:O	1:C:1340:LYS:HG2	1.96	0.66
1:E:1336:GLN:O	1:E:1340:LYS:HG2	1.96	0.66
1:A:2081:LEU:HA	1:A:2084:PHE:CE1	2.31	0.66
1:C:1224:LYS:NZ	1:C:1280:ILE:HG21	2.03	0.66
1:C:1806:TRP:O	1:C:1807:ASP:HB2	1.95	0.66
1:C:2082:TRP:NE1	1:C:2086:LYS:HD3	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2152:TRP:NE1	1:E:2156:GLU:OE2	2.28	0.66
1:C:1200:GLN:HG2	1:C:1309:LEU:HB2	1.77	0.66
1:C:1344:GLN:O	1:C:1348:GLN:N	2.29	0.66
1:E:1224:LYS:NZ	1:E:1280:ILE:HG21	2.03	0.66
1:A:1051:CYS:SG	1:A:1093:ASN:ND2	2.69	0.66
1:A:1336:GLN:O	1:A:1340:LYS:HG2	1.96	0.66
1:A:1356:GLN:NE2	1:A:1357:GLU:OE1	2.28	0.66
1:A:1710:LEU:HG	1:A:1711:PRO:HD3	1.77	0.66
1:E:2166:LYS:HD3	1:E:2169:ARG:HH11	1.59	0.66
1:A:1009:MET:O	1:A:1012:LEU:HG	1.94	0.65
1:C:2421:THR:O	1:C:2425:ASP:HB2	1.96	0.65
1:E:1722:ILE:HD11	1:E:2098:ARG:HB3	1.78	0.65
1:E:2200:ILE:HB	1:E:2204:TRP:HZ3	1.61	0.65
1:E:2250:PRO:HA	1:E:2282:VAL:HG12	1.78	0.65
1:A:1336:GLN:HA	1:A:1339:GLU:CD	2.17	0.65
1:A:1731:MET:HA	1:A:1734:ILE:HG12	1.76	0.65
1:A:1790:LEU:HG	1:A:1794:PHE:CE2	2.31	0.65
1:A:1977:TYR:HA	1:A:1980:MET:CE	2.27	0.65
1:A:2523:GLU:OE2	1:C:2182:LYS:NZ	2.29	0.65
1:C:1977:TYR:HA	1:C:1980:MET:CE	2.27	0.65
1:C:2152:TRP:NE1	1:C:2156:GLU:OE2	2.28	0.65
1:E:604:VAL:O	1:E:607:LYS:N	2.28	0.65
1:E:624:TYR:O	1:E:626:THR:N	2.30	0.65
1:E:1053:GLY:HA3	1:E:1083:PRO:HD2	1.78	0.65
1:E:1306:SER:O	1:E:1309:LEU:HG	1.96	0.65
1:E:2081:LEU:HA	1:E:2084:PHE:CE1	2.31	0.65
1:A:1029:ILE:HG22	1:A:1033:TRP:NE1	2.11	0.65
1:A:2108:ASN:O	1:A:2112:LYS:N	2.25	0.65
1:C:624:TYR:O	1:C:626:THR:N	2.30	0.65
1:C:1051:CYS:SG	1:C:1093:ASN:ND2	2.69	0.65
1:C:2388:LYS:HZ2	1:C:2394:GLU:CD	2.00	0.65
1:E:2082:TRP:O	1:E:2086:LYS:HG3	1.95	0.65
1:E:2524:GLU:HG2	1:E:2528:LYS:HZ1	1.58	0.65
1:A:1005:ARG:HD2	1:A:1006:MET:N	2.10	0.65
1:C:1713:LEU:HD12	1:C:1713:LEU:C	2.17	0.65
1:C:2250:PRO:HA	1:C:2282:VAL:HG12	1.78	0.65
1:E:2082:TRP:NE1	1:E:2086:LYS:HD3	2.11	0.65
1:A:1806:TRP:O	1:A:1807:ASP:HB2	1.95	0.65
1:C:1029:ILE:HG22	1:C:1033:TRP:NE1	2.11	0.65
1:C:1037:CYS:O	1:C:1040:LEU:HG	1.96	0.65
1:C:1320:PHE:HE1	1:C:1805:LEU:HD23	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2081:LEU:HA	1:C:2084:PHE:CE1	2.31	0.65
1:E:1336:GLN:HA	1:E:1339:GLU:CD	2.17	0.65
1:E:2421:THR:O	1:E:2425:ASP:HB2	1.96	0.65
1:C:1790:LEU:HG	1:C:1794:PHE:CE2	2.32	0.65
1:E:1348:GLN:O	1:E:1351:ARG:HD3	1.97	0.65
1:E:1508:LEU:O	1:E:1512:THR:HG23	1.96	0.65
1:E:1687:SER:O	1:E:1796:HIS:ND1	2.28	0.65
1:E:1710:LEU:HG	1:E:1711:PRO:HD3	1.77	0.65
1:A:1037:CYS:O	1:A:1040:LEU:HG	1.96	0.65
1:A:1722:ILE:HD11	1:A:2098:ARG:HB3	1.78	0.65
1:C:2082:TRP:O	1:C:2086:LYS:HG3	1.96	0.65
1:E:1342:LEU:HD23	1:E:1345:LEU:HD12	1.79	0.65
1:C:1790:LEU:HG	1:C:1794:PHE:HE2	1.61	0.65
1:A:624:TYR:O	1:A:626:THR:N	2.30	0.65
1:A:1508:LEU:O	1:A:1512:THR:HG23	1.96	0.65
1:E:1224:LYS:HB2	1:E:1224:LYS:HZ2	1.62	0.65
1:E:1790:LEU:HG	1:E:1794:PHE:CE2	2.32	0.65
1:E:1977:TYR:HA	1:E:1980:MET:CE	2.27	0.65
1:A:2200:ILE:HB	1:A:2204:TRP:HZ3	1.61	0.65
1:A:2485:PHE:HB3	1:E:2153:MET:HE2	1.77	0.65
1:C:1348:GLN:O	1:C:1351:ARG:HD3	1.97	0.65
1:C:2160:ALA:HA	1:C:2163:PHE:CE1	2.32	0.65
1:E:1007:ASN:OD1	1:E:1079:TRP:NE1	2.31	0.65
1:E:1051:CYS:SG	1:E:1093:ASN:ND2	2.69	0.65
1:E:1200:GLN:HG2	1:E:1309:LEU:HB2	1.77	0.65
1:A:1053:GLY:HA3	1:A:1083:PRO:HD2	1.78	0.64
1:A:1794:PHE:HD1	1:A:1797:ARG:HE	1.43	0.64
1:C:2531:PHE:HE1	1:C:2534:ARG:HH22	1.42	0.64
1:E:2071:ARG:HH12	1:E:2079:ALA:N	1.94	0.64
1:E:2388:LYS:HZ2	1:E:2394:GLU:CD	2.00	0.64
1:A:1306:SER:O	1:A:1309:LEU:HG	1.96	0.64
1:A:1342:LEU:HD23	1:A:1345:LEU:HD12	1.79	0.64
1:A:1348:GLN:O	1:A:1351:ARG:HD3	1.97	0.64
1:A:2421:THR:O	1:A:2425:ASP:HB2	1.96	0.64
1:A:2525:LEU:HA	1:A:2528:LYS:HZ2	1.61	0.64
1:C:1342:LEU:HD23	1:C:1345:LEU:HD12	1.79	0.64
1:C:1508:LEU:O	1:C:1512:THR:HG23	1.96	0.64
1:C:2108:ASN:O	1:C:2112:LYS:N	2.25	0.64
1:C:2200:ILE:HB	1:C:2204:TRP:HZ3	1.61	0.64
1:E:1320:PHE:HE1	1:E:1805:LEU:HD23	1.62	0.64
1:E:1713:LEU:HD12	1:E:1713:LEU:C	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1010:VAL:HA	1:E:1013:HIS:CD2	2.32	0.64
1:E:1037:CYS:O	1:E:1040:LEU:HG	1.96	0.64
1:C:1010:VAL:HA	1:C:1013:HIS:CD2	2.32	0.64
1:E:1790:LEU:HG	1:E:1794:PHE:HE2	1.61	0.64
1:E:2166:LYS:HD3	1:E:2169:ARG:HD2	1.80	0.64
1:A:1212:CYS:HA	1:A:1215:LEU:HD12	1.80	0.64
1:C:2493:MET:HE3	1:C:2493:MET:N	2.12	0.64
1:E:2071:ARG:NH1	1:E:2079:ALA:H	1.95	0.64
1:A:1790:LEU:HG	1:A:1794:PHE:HE2	1.61	0.64
1:A:2250:PRO:HA	1:A:2282:VAL:HG12	1.78	0.64
1:C:1005:ARG:HD2	1:C:1006:MET:N	2.10	0.64
1:C:1076:LEU:O	1:C:1080:LEU:N	2.29	0.64
1:C:2166:LYS:HD3	1:C:2169:ARG:HD2	1.80	0.64
1:E:1794:PHE:HD1	1:E:1797:ARG:HE	1.43	0.64
1:A:1007:ASN:OD1	1:A:1079:TRP:NE1	2.31	0.64
1:C:1336:GLN:HA	1:C:1339:GLU:CD	2.17	0.64
1:C:1722:ILE:HD11	1:C:2098:ARG:HB3	1.78	0.64
1:E:1806:TRP:O	1:E:1807:ASP:HB2	1.95	0.64
1:A:1010:VAL:HA	1:A:1013:HIS:CD2	2.32	0.64
1:A:1510:GLN:NE2	1:A:1514:ASP:OD2	2.31	0.64
1:A:2160:ALA:HA	1:A:2163:PHE:CE1	2.32	0.64
1:C:1007:ASN:OD1	1:C:1079:TRP:NE1	2.31	0.64
1:E:1690:LEU:HD13	1:E:1693:PHE:HD2	1.62	0.64
1:E:2108:ASN:O	1:E:2112:LYS:N	2.25	0.64
1:A:2114:TYR:HB3	1:A:2170:GLU:OE1	1.98	0.64
1:C:1510:GLN:NE2	1:C:1514:ASP:OD2	2.31	0.64
1:A:2084:PHE:O	1:A:2088:ILE:HG22	1.97	0.64
1:C:1340:LYS:O	1:C:1343:ALA:HB3	1.98	0.64
1:E:1510:GLN:NE2	1:E:1514:ASP:OD2	2.31	0.64
1:A:1044:LEU:HD21	1:A:1100:LEU:HD22	1.80	0.63
1:A:1713:LEU:HD12	1:A:1713:LEU:C	2.16	0.63
1:C:1053:GLY:HA3	1:C:1083:PRO:HD2	1.78	0.63
1:C:2139:ASP:OD1	1:C:2140:TRP:N	2.31	0.63
1:C:2493:MET:CE	1:C:2493:MET:HA	2.29	0.63
1:A:1168:VAL:HA	1:A:1171:VAL:HG12	1.81	0.63
1:A:1320:PHE:HE1	1:A:1805:LEU:HD23	1.62	0.63
1:A:1344:GLN:O	1:A:1348:GLN:N	2.29	0.63
1:C:1537:GLU:O	1:C:1541:LEU:HG	1.98	0.63
1:E:2160:ALA:HA	1:E:2163:PHE:CE1	2.32	0.63
1:E:2537:GLU:O	1:E:2541:LYS:HG3	1.98	0.63
1:A:1537:GLU:O	1:A:1541:LEU:HG	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1690:LEU:HD13	1:A:1693:PHE:HD2	1.62	0.63
1:C:1180:PHE:CE2	1:C:1224:LYS:HG2	2.33	0.63
1:C:1521:ARG:NH2	1:C:1524:THR:OG1	2.32	0.63
1:C:2114:TYR:HB3	1:C:2170:GLU:OE1	1.98	0.63
1:A:1243:CYS:O	1:A:1246:ILE:HG22	1.99	0.63
1:A:2041:LYS:HD3	1:A:2046:LYS:HZ1	1.63	0.63
1:A:2139:ASP:OD1	1:A:2140:TRP:N	2.31	0.63
1:A:2153:MET:CE	1:C:2485:PHE:HB3	2.28	0.63
1:A:2166:LYS:HD3	1:A:2169:ARG:HD2	1.80	0.63
1:C:1687:SER:O	1:C:1796:HIS:ND1	2.28	0.63
1:E:1168:VAL:HA	1:E:1171:VAL:HG12	1.81	0.63
1:E:1344:GLN:O	1:E:1348:GLN:N	2.29	0.63
1:E:1521:ARG:NH2	1:E:1524:THR:OG1	2.32	0.63
1:E:1696:ILE:HA	1:E:1699:HIS:NE2	2.14	0.63
1:A:1154:LYS:HE2	1:A:1158:PHE:HZ	1.64	0.63
1:C:1794:PHE:HD1	1:C:1797:ARG:HE	1.43	0.63
1:C:2084:PHE:O	1:C:2088:ILE:HG22	1.97	0.63
1:E:1180:PHE:CE2	1:E:1224:LYS:HG2	2.33	0.63
1:E:1243:CYS:O	1:E:1246:ILE:HG22	1.99	0.63
1:E:1537:GLU:O	1:E:1541:LEU:HG	1.98	0.63
1:E:2139:ASP:OD1	1:E:2140:TRP:N	2.31	0.63
1:A:2537:GLU:O	1:A:2541:LYS:HG3	1.98	0.63
1:C:1179:ILE:O	1:C:1182:LEU:HG	1.99	0.63
1:C:1357:GLU:HA	1:C:1360:ARG:HG3	1.80	0.63
1:C:1690:LEU:HD13	1:C:1693:PHE:HD2	1.62	0.63
1:E:2511:PHE:O	1:E:2514:ARG:HB2	1.98	0.63
1:A:967:ARG:NH2	1:A:1122:MET:SD	2.72	0.63
1:C:1168:VAL:HA	1:C:1171:VAL:HG12	1.81	0.63
1:C:1243:CYS:O	1:C:1246:ILE:HG22	1.99	0.63
1:C:2083:TYR:HA	1:C:2086:LYS:HZ3	1.62	0.63
1:A:1147:ARG:HH11	1:A:1152:MET:HE3	1.62	0.63
1:A:2493:MET:CE	1:A:2493:MET:HA	2.29	0.63
1:A:2511:PHE:O	1:A:2514:ARG:HB2	1.98	0.63
1:C:2537:GLU:O	1:C:2541:LYS:HG3	1.98	0.63
1:E:1212:CYS:HA	1:E:1215:LEU:HD12	1.80	0.63
1:E:2492:ILE:C	1:E:2493:MET:HE2	2.14	0.63
1:A:1180:PHE:CE2	1:A:1224:LYS:HG2	2.33	0.63
1:A:2071:ARG:HH12	1:A:2079:ALA:N	1.94	0.63
1:C:1696:ILE:HA	1:C:1699:HIS:NE2	2.14	0.63
1:E:967:ARG:NH2	1:E:1122:MET:SD	2.72	0.63
1:C:1358:LYS:O	1:C:1362:SER:N	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2084:PHE:O	1:E:2088:ILE:HG22	1.97	0.62
1:E:2526:TYR:O	1:E:2530:ILE:HG12	1.99	0.62
1:A:2071:ARG:NH1	1:A:2079:ALA:H	1.95	0.62
1:C:967:ARG:NH2	1:C:1122:MET:SD	2.72	0.62
1:C:1287:PHE:O	1:C:1291:LEU:HG	1.99	0.62
1:A:1696:ILE:HA	1:A:1699:HIS:NE2	2.13	0.62
1:A:2093:SER:O	1:A:2097:ILE:HG13	1.99	0.62
1:C:2071:ARG:HH12	1:C:2079:ALA:N	1.94	0.62
1:C:2526:TYR:O	1:C:2530:ILE:HG12	1.99	0.62
1:E:1210:TRP:O	1:E:1214:ILE:HD12	2.00	0.62
1:E:1340:LYS:O	1:E:1343:ALA:HB3	1.98	0.62
1:E:2114:TYR:HB3	1:E:2170:GLU:OE1	1.98	0.62
1:A:2526:TYR:O	1:A:2530:ILE:HG12	1.99	0.62
1:C:2511:PHE:O	1:C:2514:ARG:HB2	1.98	0.62
1:E:1179:ILE:O	1:E:1182:LEU:HG	1.99	0.62
1:E:2493:MET:CE	1:E:2493:MET:HA	2.29	0.62
1:A:1340:LYS:O	1:A:1343:ALA:HB3	1.98	0.62
1:A:1357:GLU:HA	1:A:1360:ARG:HG3	1.80	0.62
1:A:1406:VAL:HG12	1:A:2527:ALA:CB	2.30	0.62
1:A:1442:TYR:CD1	1:A:2175:TYR:CD1	2.81	0.62
1:A:1965:ILE:HA	1:A:1968:THR:HG23	1.82	0.62
1:A:2388:LYS:HZ2	1:A:2394:GLU:CD	2.02	0.62
1:C:1154:LYS:HE2	1:C:1158:PHE:HZ	1.64	0.62
1:C:1210:TRP:O	1:C:1214:ILE:HD12	2.00	0.62
1:E:2041:LYS:HE3	1:E:2102:PRO:HG3	1.82	0.62
1:A:1287:PHE:O	1:A:1291:LEU:HG	1.99	0.62
1:C:1165:VAL:HG11	1:C:1293:GLN:CD	2.20	0.62
1:C:1212:CYS:HA	1:C:1215:LEU:HD12	1.80	0.62
1:C:1977:TYR:HA	1:C:1980:MET:HE2	1.82	0.62
1:C:2093:SER:O	1:C:2097:ILE:HG13	1.99	0.62
1:E:2093:SER:O	1:E:2097:ILE:HG13	1.99	0.62
1:A:2496:GLU:HB2	1:E:2534:ARG:NE	2.15	0.62
1:C:2041:LYS:HE3	1:C:2102:PRO:HG3	1.82	0.62
1:C:2165:ILE:HG23	1:C:2169:ARG:HH12	1.65	0.62
1:C:2325:ARG:HH22	1:C:2333:VAL:HG13	1.65	0.62
1:E:2325:ARG:HH22	1:E:2333:VAL:HG13	1.65	0.62
1:A:2325:ARG:HH22	1:A:2333:VAL:HG13	1.65	0.62
1:C:624:TYR:O	1:C:627:LEU:N	2.33	0.62
1:C:2071:ARG:NH1	1:C:2079:ALA:H	1.95	0.62
1:E:1044:LEU:HD21	1:E:1100:LEU:HD22	1.80	0.62
1:E:1076:LEU:O	1:E:1080:LEU:N	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1357:GLU:HA	1:E:1360:ARG:HG3	1.80	0.62
1:E:1965:ILE:HA	1:E:1968:THR:HG23	1.82	0.62
1:A:2041:LYS:HE3	1:A:2102:PRO:HG3	1.82	0.62
1:A:2153:MET:HE2	1:C:2485:PHE:HB3	1.81	0.62
1:C:1965:ILE:HA	1:C:1968:THR:HG23	1.82	0.62
1:C:1992:ILE:HA	1:C:1995:PHE:CZ	2.35	0.62
1:E:1311:ALA:HB1	1:E:1538:ARG:CZ	2.30	0.62
1:E:1722:ILE:HG13	1:E:2098:ARG:HH11	1.65	0.62
1:A:1076:LEU:O	1:A:1080:LEU:N	2.29	0.62
1:A:1179:ILE:O	1:A:1182:LEU:HG	1.99	0.62
1:C:1520:LEU:O	1:C:1524:THR:HG23	2.00	0.62
1:C:1722:ILE:HG13	1:C:2098:ARG:HH11	1.65	0.62
1:E:1140:ILE:O	1:E:1304:HIS:HE1	1.83	0.62
1:A:624:TYR:O	1:A:627:LEU:N	2.33	0.61
1:A:2165:ILE:HG23	1:A:2169:ARG:HH12	1.65	0.61
1:A:2485:PHE:HB3	1:E:2153:MET:CE	2.29	0.61
1:A:2502:ARG:HA	1:A:2505:LYS:HG2	1.82	0.61
1:C:1140:ILE:O	1:C:1304:HIS:HE1	1.83	0.61
1:C:2017:PRO:HA	1:C:2020:PHE:CD2	2.35	0.61
1:A:1140:ILE:O	1:A:1304:HIS:HE1	1.83	0.61
1:A:1953:SER:HA	1:A:1957:PRO:HD2	1.83	0.61
1:A:2017:PRO:HA	1:A:2020:PHE:CD2	2.35	0.61
1:C:1044:LEU:HD21	1:C:1100:LEU:HD22	1.80	0.61
1:A:1521:ARG:NH2	1:A:1524:THR:OG1	2.32	0.61
1:C:1081:TYR:CD2	1:C:1089:PRO:HG2	2.36	0.61
1:C:1137:PRO:O	1:C:1141:PRO:HD3	2.01	0.61
1:E:1332:ASN:O	1:E:1335:ARG:HG2	2.00	0.61
1:E:1358:LYS:O	1:E:1362:SER:N	2.30	0.61
1:E:1992:ILE:HA	1:E:1995:PHE:CZ	2.35	0.61
1:A:1728:ARG:HA	1:A:1731:MET:HE1	1.83	0.61
1:A:1992:ILE:HA	1:A:1995:PHE:CZ	2.35	0.61
1:A:2081:LEU:HD23	1:A:2084:PHE:CE1	2.34	0.61
1:A:2126:ARG:CZ	1:A:2131:LEU:HD11	2.30	0.61
1:A:2493:MET:HE2	1:A:2493:MET:HA	1.82	0.61
1:E:1081:TYR:CD2	1:E:1089:PRO:HG2	2.36	0.61
1:E:1137:PRO:O	1:E:1141:PRO:HD3	2.01	0.61
1:A:1311:ALA:HB1	1:A:1538:ARG:CZ	2.30	0.61
1:A:1735:VAL:HA	1:A:1738:GLU:CD	2.21	0.61
1:C:1186:LEU:HA	1:C:1189:PHE:CD2	2.35	0.61
1:C:1332:ASN:O	1:C:1335:ARG:HG2	2.01	0.61
1:C:2153:MET:CE	1:E:2485:PHE:HB3	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:624:TYR:O	1:E:627:LEU:N	2.33	0.61
1:E:1224:LYS:HA	1:E:1227:LEU:HG	1.83	0.61
1:E:1520:LEU:O	1:E:1524:THR:HG23	2.00	0.61
1:E:1728:ARG:HA	1:E:1731:MET:HE1	1.83	0.61
1:E:2165:ILE:HG23	1:E:2169:ARG:HH12	1.65	0.61
1:C:2502:ARG:HA	1:C:2505:LYS:HG2	1.82	0.61
1:E:1186:LEU:HA	1:E:1189:PHE:CD2	2.35	0.61
1:A:1137:PRO:O	1:A:1141:PRO:HD3	2.01	0.61
1:C:1165:VAL:CG1	1:C:1293:GLN:CG	2.57	0.61
1:C:1443:GLN:O	1:C:1447:THR:N	2.30	0.61
1:E:1154:LYS:HE2	1:E:1158:PHE:HZ	1.64	0.61
1:E:1287:PHE:O	1:E:1291:LEU:HG	1.99	0.61
1:E:2017:PRO:HA	1:E:2020:PHE:CD2	2.35	0.61
1:A:1186:LEU:HA	1:A:1189:PHE:CD2	2.35	0.61
1:A:1210:TRP:O	1:A:1214:ILE:HD12	2.00	0.61
1:A:1332:ASN:O	1:A:1335:ARG:HG2	2.01	0.61
1:A:1698:ASN:OD1	1:A:1699:HIS:N	2.34	0.61
1:A:1722:ILE:HG13	1:A:2098:ARG:HH11	1.65	0.61
1:C:1406:VAL:HG12	1:C:2527:ALA:CB	2.30	0.61
1:E:1165:VAL:HG11	1:E:1293:GLN:CD	2.20	0.61
1:E:1698:ASN:OD1	1:E:1699:HIS:N	2.34	0.61
1:A:1165:VAL:CG1	1:A:1293:GLN:CG	2.57	0.61
1:A:1165:VAL:HG11	1:A:1293:GLN:CD	2.20	0.61
1:C:1679:GLY:HA2	1:C:1682:CYS:SG	2.41	0.61
1:C:2534:ARG:NE	1:E:2496:GLU:HB2	2.16	0.61
1:E:1719:MET:CA	1:E:2098:ARG:HH21	2.09	0.61
1:A:1358:LYS:O	1:A:1362:SER:N	2.30	0.61
1:A:1443:GLN:O	1:A:1447:THR:N	2.30	0.61
1:A:1695:ILE:HA	1:A:1698:ASN:HD21	1.66	0.61
1:A:1724:ARG:NH2	1:A:1727:LYS:O	2.34	0.61
1:A:2186:ILE:HA	1:A:2189:TYR:CD2	2.36	0.61
1:C:1411:ASP:O	1:C:1415:PHE:HB2	2.01	0.61
1:C:1953:SER:HA	1:C:1957:PRO:HD2	1.83	0.61
1:C:2126:ARG:CZ	1:C:2131:LEU:HD11	2.30	0.61
1:A:2534:ARG:NE	1:C:2496:GLU:HB2	2.16	0.60
1:C:1144:ILE:HA	1:C:1304:HIS:CD2	2.36	0.60
1:C:1147:ARG:NH2	1:C:1662:ALA:O	2.33	0.60
1:C:1698:ASN:OD1	1:C:1699:HIS:N	2.34	0.60
1:C:2235:TYR:HD2	1:C:2304:MET:HG3	1.66	0.60
1:E:1406:VAL:HG12	1:E:2527:ALA:CB	2.30	0.60
1:E:1735:VAL:HA	1:E:1738:GLU:CD	2.21	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2126:ARG:CZ	1:E:2131:LEU:HD11	2.30	0.60
1:E:1141:PRO:HA	1:E:1304:HIS:CE1	2.36	0.60
1:E:1342:LEU:O	1:E:1346:LYS:N	2.33	0.60
1:E:1679:GLY:HA2	1:E:1682:CYS:SG	2.41	0.60
1:A:1224:LYS:HA	1:A:1227:LEU:HG	1.83	0.60
1:A:1719:MET:CA	1:A:2098:ARG:HH21	2.09	0.60
1:A:2171:THR:O	1:A:2175:TYR:N	2.33	0.60
1:E:2171:THR:O	1:E:2175:TYR:N	2.33	0.60
1:A:1520:LEU:O	1:A:1524:THR:HG23	2.00	0.60
1:A:2235:TYR:HD2	1:A:2304:MET:HG3	1.66	0.60
1:C:1224:LYS:HA	1:C:1227:LEU:HG	1.83	0.60
1:A:1081:TYR:CD2	1:A:1089:PRO:HG2	2.36	0.60
1:A:2162:ILE:HG12	1:A:2500:VAL:HG21	1.84	0.60
1:C:1783:ILE:HD11	1:C:1786:ASP:HB2	1.84	0.60
1:E:1501:THR:HA	1:E:1504:PHE:HD2	1.66	0.60
1:E:1783:ILE:HD11	1:E:1786:ASP:HB2	1.84	0.60
1:E:1973:ALA:HB3	1:E:2099:CYS:CB	2.32	0.60
1:A:1144:ILE:HA	1:A:1304:HIS:CD2	2.36	0.60
1:C:967:ARG:O	1:C:970:LEU:HB2	2.02	0.60
1:C:1735:VAL:HA	1:C:1738:GLU:CD	2.21	0.60
1:A:1165:VAL:HG12	1:A:1293:GLN:HG3	1.77	0.60
1:A:1458:GLU:HA	1:A:1461:ARG:HE	1.67	0.60
1:C:1141:PRO:HA	1:C:1304:HIS:CE1	2.36	0.60
1:C:1311:ALA:HB1	1:C:1538:ARG:CZ	2.30	0.60
1:C:1501:THR:HA	1:C:1504:PHE:HD2	1.66	0.60
1:C:2186:ILE:HA	1:C:2189:TYR:CD2	2.36	0.60
1:E:1318:ARG:H	1:E:1318:ARG:HD2	1.66	0.60
1:A:974:LEU:HD23	1:A:1150:LEU:HD21	1.83	0.60
1:A:1411:ASP:O	1:A:1415:PHE:HB2	2.01	0.60
1:A:1459:ARG:O	1:A:1462:GLN:HG2	2.02	0.60
1:A:1534:LEU:O	1:A:1538:ARG:HG2	2.02	0.60
1:A:1679:GLY:HA2	1:A:1682:CYS:SG	2.41	0.60
1:C:1973:ALA:HB3	1:C:2099:CYS:CB	2.32	0.60
1:E:1144:ILE:HA	1:E:1304:HIS:CD2	2.36	0.60
1:E:1443:GLN:O	1:E:1447:THR:N	2.30	0.60
1:E:2186:ILE:HA	1:E:2189:TYR:CD2	2.36	0.60
1:E:2235:TYR:HD2	1:E:2304:MET:HG3	1.66	0.60
1:E:1442:TYR:CD1	1:E:2175:TYR:CD1	2.81	0.60
1:E:1695:ILE:HA	1:E:1698:ASN:HD21	1.66	0.60
1:A:1335:ARG:HA	1:A:1338:GLU:OE2	2.02	0.60
1:A:2324:GLN:HB2	1:A:2335:TYR:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2500:VAL:HG22	1:A:2503:ILE:HB	1.83	0.60
1:C:1220:VAL:O	1:C:1224:LYS:HG3	2.02	0.60
1:C:1335:ARG:HA	1:C:1338:GLU:OE2	2.02	0.60
1:C:1342:LEU:O	1:C:1346:LYS:N	2.33	0.60
1:C:1695:ILE:HA	1:C:1698:ASN:HD21	1.66	0.60
1:C:1719:MET:HA	1:C:2098:ARG:NH2	2.10	0.60
1:C:2162:ILE:HG12	1:C:2500:VAL:HG21	1.84	0.60
1:C:2481:VAL:HA	1:C:2484:PHE:CD2	2.37	0.60
1:E:1953:SER:HA	1:E:1957:PRO:HD2	1.83	0.60
1:E:2115:ASN:O	1:E:2119:LEU:HG	2.02	0.60
1:A:1141:PRO:HA	1:A:1304:HIS:CE1	2.36	0.59
1:A:1747:PHE:HZ	1:A:1779:THR:HG1	1.50	0.59
1:A:2169:ARG:NE	1:A:2498:PRO:O	2.31	0.59
1:C:1355:LYS:HB3	1:C:1359:TYR:HE2	1.67	0.59
1:E:967:ARG:O	1:E:970:LEU:HB2	2.02	0.59
1:E:2083:TYR:HA	1:E:2086:LYS:HZ3	1.65	0.59
1:A:1318:ARG:H	1:A:1318:ARG:HD2	1.67	0.59
1:A:1501:THR:HA	1:A:1504:PHE:HD2	1.66	0.59
1:A:1783:ILE:HD11	1:A:1786:ASP:HB2	1.84	0.59
1:C:974:LEU:HD23	1:C:1150:LEU:HD21	1.83	0.59
1:C:1216:TYR:O	1:C:1220:VAL:HG23	2.02	0.59
1:C:1724:ARG:NH2	1:C:1727:LYS:O	2.34	0.59
1:E:1719:MET:HA	1:E:2098:ARG:NH2	2.10	0.59
1:E:2039:LEU:CD1	1:E:2040:ARG:HG2	2.32	0.59
1:E:2502:ARG:HA	1:E:2505:LYS:HG2	1.82	0.59
1:C:1656:ILE:O	1:C:1659:LEU:HG	2.02	0.59
1:C:2071:ARG:HE	1:C:2076:ASN:HA	1.67	0.59
1:C:2196:ILE:HD13	1:C:2199:LEU:HD21	1.84	0.59
1:E:1118:GLU:HA	1:E:1121:ARG:NH2	2.18	0.59
1:E:1150:LEU:O	1:E:1153:LEU:HG	2.02	0.59
1:E:1411:ASP:O	1:E:1415:PHE:HB2	2.01	0.59
1:E:1458:GLU:HA	1:E:1461:ARG:HE	1.67	0.59
1:E:2021:LEU:O	1:E:2025:LEU:HG	2.03	0.59
1:A:1150:LEU:O	1:A:1153:LEU:HG	2.02	0.59
1:A:1973:ALA:HB3	1:A:2099:CYS:CB	2.32	0.59
1:A:2071:ARG:HE	1:A:2076:ASN:HA	1.67	0.59
1:C:1459:ARG:O	1:C:1462:GLN:HG2	2.02	0.59
1:C:2115:ASN:O	1:C:2119:LEU:HG	2.01	0.59
1:C:2500:VAL:HG22	1:C:2503:ILE:HB	1.83	0.59
1:E:1534:LEU:O	1:E:1538:ARG:HG2	2.02	0.59
1:E:1656:ILE:O	1:E:1659:LEU:HG	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1724:ARG:NH2	1:E:1727:LYS:O	2.34	0.59
1:C:1150:LEU:O	1:C:1153:LEU:HG	2.03	0.59
1:C:1325:ALA:O	1:C:1329:LYS:HD3	2.02	0.59
1:C:1334:HIS:HE1	1:C:1972:ALA:HB1	1.68	0.59
1:E:1325:ALA:O	1:E:1329:LYS:HD3	2.02	0.59
1:A:967:ARG:O	1:A:970:LEU:HB2	2.02	0.59
1:A:1700:MET:HG3	1:A:2080:GLN:HG3	1.82	0.59
1:A:1718:ALA:O	1:A:2098:ARG:NH2	2.36	0.59
1:C:1718:ALA:O	1:C:2098:ARG:NH2	2.36	0.59
1:E:974:LEU:HD23	1:E:1150:LEU:HD21	1.83	0.59
1:E:1005:ARG:HE	1:E:1010:VAL:CG1	2.14	0.59
1:E:1335:ARG:HA	1:E:1338:GLU:OE2	2.02	0.59
1:E:2500:VAL:HG22	1:E:2503:ILE:HB	1.83	0.59
1:A:1325:ALA:O	1:A:1329:LYS:HD3	2.02	0.59
1:A:1355:LYS:HB3	1:A:1359:TYR:HE2	1.68	0.59
1:A:1453:LEU:HD21	1:A:1507:VAL:HG11	1.85	0.59
1:A:1656:ILE:O	1:A:1659:LEU:HG	2.02	0.59
1:C:1458:GLU:HA	1:C:1461:ARG:HE	1.67	0.59
1:A:1018:VAL:O	1:A:1021:LEU:HG	2.03	0.59
1:A:2115:ASN:O	1:A:2119:LEU:HG	2.02	0.59
1:C:1453:LEU:HD21	1:C:1507:VAL:HG11	1.85	0.59
1:E:1018:VAL:O	1:E:1021:LEU:HG	2.03	0.59
1:E:1216:TYR:O	1:E:1220:VAL:HG23	2.02	0.59
1:E:1700:MET:HG3	1:E:2080:GLN:HG3	1.82	0.59
1:E:1718:ALA:O	1:E:2098:ARG:NH2	2.36	0.59
1:A:2021:LEU:O	1:A:2025:LEU:HG	2.02	0.59
1:A:2196:ILE:HD13	1:A:2199:LEU:HD21	1.84	0.59
1:C:1442:TYR:CD1	1:C:2175:TYR:CD1	2.81	0.59
1:E:1555:VAL:HA	1:E:1558:GLN:OE1	2.03	0.59
1:A:1216:TYR:O	1:A:1220:VAL:HG23	2.02	0.59
1:A:1342:LEU:O	1:A:1346:LYS:N	2.33	0.59
1:A:1518:ARG:HH11	1:A:1521:ARG:HG3	1.68	0.59
1:C:1534:LEU:O	1:C:1538:ARG:HG2	2.02	0.59
1:E:1459:ARG:O	1:E:1462:GLN:HG2	2.02	0.59
1:E:2071:ARG:HE	1:E:2076:ASN:HA	1.67	0.59
1:A:1555:VAL:HA	1:A:1558:GLN:OE1	2.03	0.58
1:A:2481:VAL:HA	1:A:2484:PHE:CD2	2.37	0.58
1:C:1717:TRP:HE1	1:C:1726:SER:HA	1.68	0.58
1:A:1182:LEU:HA	1:A:1185:LEU:HG	1.85	0.58
1:A:2493:MET:HE3	1:A:2493:MET:N	2.17	0.58
1:C:1005:ARG:CD	1:C:1006:MET:N	2.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1018:VAL:O	1:C:1021:LEU:HG	2.03	0.58
1:C:2081:LEU:HD23	1:C:2084:PHE:CE1	2.34	0.58
1:E:1220:VAL:O	1:E:1224:LYS:HG3	2.02	0.58
1:E:2481:VAL:HA	1:E:2484:PHE:CD2	2.37	0.58
1:A:1005:ARG:CD	1:A:1006:MET:N	2.66	0.58
1:A:1717:TRP:HE1	1:A:1726:SER:HA	1.68	0.58
1:C:1337:ILE:HD11	1:C:2104:ARG:NH2	2.18	0.58
1:E:1717:TRP:HE1	1:E:1726:SER:HA	1.68	0.58
1:E:2081:LEU:HD23	1:E:2084:PHE:CE1	2.34	0.58
1:A:991:LEU:HD21	1:A:1110:VAL:HG11	1.85	0.58
1:A:1220:VAL:O	1:A:1224:LYS:HG3	2.02	0.58
1:C:2021:LEU:O	1:C:2025:LEU:HG	2.03	0.58
1:E:2162:ILE:HG12	1:E:2500:VAL:HG21	1.84	0.58
1:A:1005:ARG:HE	1:A:1010:VAL:CG1	2.14	0.58
1:A:1118:GLU:HA	1:A:1121:ARG:NH2	2.18	0.58
1:C:1224:LYS:HB2	1:C:1224:LYS:HZ3	1.65	0.58
1:C:2324:GLN:HB2	1:C:2335:TYR:CE1	2.37	0.58
1:E:991:LEU:HD21	1:E:1110:VAL:HG11	1.85	0.58
1:E:1355:LYS:HB3	1:E:1359:TYR:HE2	1.67	0.58
1:A:2408:GLU:O	1:A:2426:PHE:HB2	2.04	0.58
1:C:1354:ALA:HA	1:C:1357:GLU:OE2	2.04	0.58
1:C:2171:THR:O	1:C:2175:TYR:N	2.33	0.58
1:E:1334:HIS:HE1	1:E:1972:ALA:HB1	1.68	0.58
1:E:1337:ILE:HD11	1:E:2104:ARG:NH2	2.18	0.58
1:E:1354:ALA:HA	1:E:1357:GLU:OE2	2.04	0.58
1:A:1006:MET:O	1:A:1229:LEU:HD11	2.03	0.58
1:A:1334:HIS:HE1	1:A:1972:ALA:HB1	1.68	0.58
1:C:991:LEU:HD21	1:C:1110:VAL:HG11	1.85	0.58
1:C:1318:ARG:H	1:C:1318:ARG:HD2	1.66	0.58
1:E:1006:MET:O	1:E:1229:LEU:HD11	2.03	0.58
1:E:2196:ILE:HD13	1:E:2199:LEU:HD21	1.84	0.58
1:E:2324:GLN:HB2	1:E:2335:TYR:CE1	2.37	0.58
1:C:1308:ASP:O	1:C:1311:ALA:HB3	2.03	0.58
1:C:1518:ARG:HH11	1:C:1521:ARG:HG3	1.68	0.58
1:E:2523:GLU:CD	1:E:2523:GLU:H	2.07	0.58
1:A:1708:LEU:O	1:A:1711:PRO:HD2	2.04	0.58
1:A:1790:LEU:CG	1:A:1794:PHE:CE2	2.83	0.58
1:A:2123:GLN:O	1:A:2127:LEU:HG	2.04	0.58
1:C:1006:MET:O	1:C:1229:LEU:HD11	2.03	0.58
1:C:1182:LEU:HA	1:C:1185:LEU:HG	1.85	0.58
1:C:1706:ALA:HA	1:C:1709:VAL:HG22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2481:VAL:HA	1:C:2484:PHE:CE2	2.39	0.58
1:C:2505:LYS:HG3	1:C:2506:LEU:HD22	1.85	0.58
1:C:2523:GLU:CD	1:C:2523:GLU:H	2.08	0.58
1:A:1147:ARG:NH2	1:A:1666:GLU:HB2	2.19	0.58
1:C:1118:GLU:HA	1:C:1121:ARG:NH2	2.18	0.58
1:C:1147:ARG:NH2	1:C:1666:GLU:HB2	2.19	0.58
1:E:1182:LEU:HA	1:E:1185:LEU:HG	1.85	0.58
1:C:997:MET:HA	1:C:1000:ASN:ND2	2.19	0.57
1:C:1700:MET:CG	1:C:2080:GLN:HB3	2.32	0.57
1:C:2169:ARG:NE	1:C:2498:PRO:O	2.31	0.57
1:E:1066:TRP:CD2	1:E:1068:LYS:HD2	2.39	0.57
1:E:2123:GLN:O	1:E:2127:LEU:HG	2.04	0.57
1:A:1066:TRP:CD2	1:A:1068:LYS:HD2	2.39	0.57
1:A:2523:GLU:H	1:A:2523:GLU:CD	2.07	0.57
1:C:1000:ASN:OD1	1:C:1001:VAL:N	2.37	0.57
1:A:1337:ILE:HD11	1:A:2104:ARG:NH2	2.18	0.57
1:C:1457:ARG:NH1	1:C:1458:GLU:HB3	2.19	0.57
1:C:2408:GLU:O	1:C:2426:PHE:HB2	2.04	0.57
1:C:2493:MET:HE2	1:C:2493:MET:HA	1.87	0.57
1:E:1005:ARG:CD	1:E:1006:MET:N	2.66	0.57
1:E:1453:LEU:HD21	1:E:1507:VAL:HG11	1.85	0.57
1:E:1457:ARG:NH1	1:E:1458:GLU:HB3	2.19	0.57
1:A:1353:ARG:O	1:A:1356:GLN:HG3	2.04	0.57
1:A:1457:ARG:NH1	1:A:1458:GLU:HB3	2.19	0.57
1:A:2481:VAL:HA	1:A:2484:PHE:CE2	2.39	0.57
1:A:2505:LYS:HG3	1:A:2506:LEU:HD22	1.85	0.57
1:C:1555:VAL:HA	1:C:1558:GLN:OE1	2.03	0.57
1:C:1719:MET:CA	1:C:2098:ARG:HH21	2.09	0.57
1:E:997:MET:HA	1:E:1000:ASN:ND2	2.19	0.57
1:E:1308:ASP:O	1:E:1311:ALA:HB3	2.04	0.57
1:E:1518:ARG:HH11	1:E:1521:ARG:HG3	1.68	0.57
1:E:2041:LYS:HD3	1:E:2046:LYS:NZ	2.20	0.57
1:E:2481:VAL:HA	1:E:2484:PHE:CE2	2.39	0.57
1:C:1317:SER:OG	1:C:1318:ARG:NH1	2.38	0.57
1:C:2041:LYS:HD3	1:C:2046:LYS:NZ	2.20	0.57
1:E:982:ILE:HG13	1:E:983:ASN:N	2.20	0.57
1:E:1000:ASN:OD1	1:E:1001:VAL:N	2.37	0.57
1:E:1353:ARG:O	1:E:1356:GLN:HG3	2.04	0.57
1:E:1708:LEU:O	1:E:1711:PRO:HD2	2.04	0.57
1:E:2154:CYS:O	1:E:2158:ILE:HG13	2.05	0.57
1:A:982:ILE:HG13	1:A:983:ASN:N	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1354:ALA:HA	1:A:1357:GLU:OE2	2.04	0.57
1:A:2063:PHE:CE2	1:A:2065:LEU:HB3	2.40	0.57
1:C:2039:LEU:CD1	1:C:2040:ARG:HG2	2.32	0.57
1:A:1000:ASN:OD1	1:A:1001:VAL:N	2.37	0.57
1:E:2408:GLU:O	1:E:2426:PHE:HB2	2.04	0.57
1:A:1147:ARG:NH2	1:A:1662:ALA:O	2.33	0.57
1:A:1706:ALA:HA	1:A:1709:VAL:HG22	1.85	0.57
1:C:1708:LEU:O	1:C:1711:PRO:HD2	2.04	0.57
1:C:2151:ASN:ND2	1:C:2526:TYR:OH	2.38	0.57
1:E:1458:GLU:HB2	1:E:1461:ARG:HH21	1.69	0.57
1:A:1308:ASP:O	1:A:1311:ALA:HB3	2.03	0.57
1:A:2151:ASN:ND2	1:A:2526:TYR:OH	2.38	0.57
1:C:2123:GLN:O	1:C:2127:LEU:HG	2.04	0.57
1:E:1317:SER:OG	1:E:1318:ARG:NH1	2.38	0.57
1:E:2151:ASN:ND2	1:E:2526:TYR:OH	2.38	0.57
1:E:2505:LYS:HG3	1:E:2506:LEU:HD22	1.85	0.57
1:A:1977:TYR:HA	1:A:1980:MET:HE2	1.87	0.57
1:C:1700:MET:HG3	1:C:2080:GLN:HG3	1.82	0.57
1:E:1706:ALA:HA	1:E:1709:VAL:HG22	1.85	0.57
1:E:1977:TYR:HA	1:E:1980:MET:HE1	1.86	0.57
1:A:663:ARG:NH1	1:A:664:ASN:OD1	2.38	0.56
1:C:982:ILE:HG13	1:C:983:ASN:N	2.20	0.56
1:E:1147:ARG:NH2	1:E:1666:GLU:HB2	2.19	0.56
1:A:1135:GLY:N	1:A:1138:ASN:OD1	2.38	0.56
1:A:1204:ARG:O	1:A:1208:VAL:HG23	2.05	0.56
1:A:2082:TRP:O	1:A:2085:VAL:HG22	2.05	0.56
1:C:1066:TRP:CD2	1:C:1068:LYS:HD2	2.39	0.56
1:C:2199:LEU:O	1:C:2203:ILE:HG12	2.05	0.56
1:A:997:MET:HA	1:A:1000:ASN:ND2	2.19	0.56
1:A:1317:SER:OG	1:A:1318:ARG:NH1	2.38	0.56
1:A:1700:MET:CG	1:A:2080:GLN:HB3	2.32	0.56
1:A:2039:LEU:CD1	1:A:2040:ARG:HG2	2.32	0.56
1:A:2061:MET:SD	1:A:2066:PRO:HB3	2.45	0.56
1:A:2154:CYS:O	1:A:2158:ILE:HG13	2.05	0.56
1:A:2492:ILE:CG1	1:A:2493:MET:HE3	2.29	0.56
1:C:1002:ILE:HG22	1:C:1005:ARG:HH21	1.70	0.56
1:C:1353:ARG:O	1:C:1356:GLN:HG3	2.04	0.56
1:C:2082:TRP:O	1:C:2085:VAL:HG22	2.05	0.56
1:E:663:ARG:NH1	1:E:664:ASN:OD1	2.38	0.56
1:E:1002:ILE:HG22	1:E:1005:ARG:HH21	1.70	0.56
1:E:1204:ARG:O	1:E:1208:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2061:MET:SD	1:E:2066:PRO:HB3	2.45	0.56
1:E:2510:ILE:HD11	1:E:2522:GLU:CD	2.25	0.56
1:A:1117:GLU:HA	1:A:1120:GLN:HG2	1.88	0.56
1:A:1458:GLU:HB2	1:A:1461:ARG:HH21	1.69	0.56
1:A:2041:LYS:HD3	1:A:2046:LYS:NZ	2.20	0.56
1:C:1458:GLU:HB2	1:C:1461:ARG:HH21	1.69	0.56
1:C:1942:ARG:HB3	1:C:1946:PHE:CE2	2.41	0.56
1:C:2510:ILE:HD11	1:C:2522:GLU:CD	2.25	0.56
1:E:2082:TRP:O	1:E:2085:VAL:HG22	2.05	0.56
1:E:2199:LEU:O	1:E:2203:ILE:HG12	2.05	0.56
1:A:2510:ILE:HD11	1:A:2522:GLU:CD	2.25	0.56
1:C:2061:MET:SD	1:C:2066:PRO:HB3	2.45	0.56
1:E:970:LEU:HD23	1:E:977:CYS:HA	1.87	0.56
1:E:1135:GLY:N	1:E:1138:ASN:OD1	2.38	0.56
1:E:1688:GLU:OE1	1:E:1796:HIS:CE1	2.59	0.56
1:A:1942:ARG:HB3	1:A:1946:PHE:CE2	2.41	0.56
1:A:2394:GLU:OE1	1:A:2398:TYR:OH	2.20	0.56
1:C:663:ARG:NH1	1:C:664:ASN:OD1	2.38	0.56
1:E:1117:GLU:HA	1:E:1120:GLN:HG2	1.88	0.56
1:E:1165:VAL:HG12	1:E:1293:GLN:HG3	1.76	0.56
1:E:1200:GLN:HA	1:E:1309:LEU:HD22	1.88	0.56
1:E:1679:GLY:HA2	1:E:1682:CYS:HG	1.70	0.56
1:E:1959:GLN:HG3	1:E:1963:HIS:CE1	2.41	0.56
1:A:1203:THR:HA	1:A:1206:GLN:HE21	1.71	0.56
1:A:1959:GLN:HG3	1:A:1963:HIS:CE1	2.41	0.56
1:A:2140:TRP:NE1	1:A:2149:LEU:HA	2.21	0.56
1:A:2199:LEU:O	1:A:2203:ILE:HG12	2.05	0.56
1:C:2017:PRO:HA	1:C:2020:PHE:HD2	1.71	0.56
1:C:2063:PHE:CE2	1:C:2065:LEU:HB3	2.40	0.56
1:E:1726:SER:CB	1:E:1729:PHE:HB3	2.23	0.56
1:E:2063:PHE:CE2	1:E:2065:LEU:HB3	2.40	0.56
1:C:1203:THR:HA	1:C:1206:GLN:HE21	1.71	0.56
1:C:1354:ALA:HB1	1:C:1414:LEU:HB3	1.88	0.56
1:C:1410:GLY:HA3	1:C:2531:PHE:CE2	2.41	0.56
1:C:1728:ARG:HA	1:C:1731:MET:HE1	1.87	0.56
1:C:1747:PHE:HZ	1:C:1779:THR:HG1	1.52	0.56
1:C:2154:CYS:O	1:C:2158:ILE:HG13	2.05	0.56
1:C:2183:LYS:HE2	1:C:2188:LYS:NZ	2.21	0.56
1:E:1454:ARG:O	1:E:1457:ARG:NH1	2.39	0.56
1:E:1747:PHE:HZ	1:E:1779:THR:HG1	1.52	0.56
1:E:2140:TRP:NE1	1:E:2149:LEU:HA	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1318:ARG:HD2	1:A:1318:ARG:N	2.21	0.56
1:A:1688:GLU:OE1	1:A:1796:HIS:CE1	2.59	0.56
1:C:966:THR:HB	1:C:980:TYR:CE1	2.41	0.56
1:C:1117:GLU:HA	1:C:1120:GLN:HG2	1.88	0.56
1:C:1350:LYS:HA	1:C:1353:ARG:NE	2.13	0.56
1:C:1726:SER:HB2	1:C:1729:PHE:CB	2.22	0.56
1:C:2140:TRP:NE1	1:C:2149:LEU:HA	2.21	0.56
1:C:2166:LYS:O	1:C:2170:GLU:HG3	2.06	0.56
1:E:2481:VAL:HG22	1:E:2485:PHE:CZ	2.41	0.56
1:A:999:VAL:HA	1:A:1002:ILE:HG12	1.88	0.56
1:A:1354:ALA:HB1	1:A:1414:LEU:HB3	1.88	0.56
1:C:1035:ASN:OD1	1:C:1036:TYR:N	2.39	0.56
1:C:1135:GLY:N	1:C:1138:ASN:OD1	2.38	0.56
1:C:1163:TRP:O	1:C:1166:LEU:HG	2.06	0.56
1:C:1454:ARG:O	1:C:1457:ARG:NH1	2.39	0.56
1:C:1668:GLN:HE22	1:C:1669:GLN:HB3	1.71	0.56
1:C:2047:LEU:HA	1:C:2050:GLN:HE21	1.71	0.56
1:E:2410:VAL:HG12	1:E:2426:PHE:HA	1.88	0.56
1:A:970:LEU:HD23	1:A:977:CYS:HA	1.87	0.55
1:A:1035:ASN:OD1	1:A:1036:TYR:N	2.39	0.55
1:A:1224:LYS:HZ3	1:A:1224:LYS:CB	2.15	0.55
1:C:1204:ARG:O	1:C:1208:VAL:HG23	2.05	0.55
1:C:2481:VAL:HG22	1:C:2485:PHE:CZ	2.41	0.55
1:A:996:LEU:HD22	1:A:1288:PHE:CE1	2.41	0.55
1:A:1454:ARG:O	1:A:1457:ARG:NH1	2.39	0.55
1:C:1704:SER:HB2	1:C:1776:LEU:O	2.07	0.55
1:C:1733:ALA:O	1:C:1737:THR:HG23	2.06	0.55
1:E:1194:PHE:HB2	1:E:1197:THR:OG1	2.06	0.55
1:E:1318:ARG:HD2	1:E:1318:ARG:N	2.21	0.55
1:E:1451:THR:O	1:E:1454:ARG:HG2	2.06	0.55
1:E:2183:LYS:HE2	1:E:2188:LYS:NZ	2.21	0.55
1:C:996:LEU:HD22	1:C:1288:PHE:CE1	2.41	0.55
1:C:1200:GLN:HA	1:C:1309:LEU:HD22	1.88	0.55
1:C:1688:GLU:OE1	1:C:1796:HIS:CE1	2.59	0.55
1:C:2072:MET:O	1:C:2076:ASN:ND2	2.36	0.55
1:C:2158:ILE:HD13	1:C:2533:TYR:OH	2.06	0.55
1:E:1035:ASN:OD1	1:E:1036:TYR:N	2.39	0.55
1:E:1203:THR:HA	1:E:1206:GLN:HE21	1.71	0.55
1:E:1291:LEU:HA	1:E:1294:ARG:HD2	1.88	0.55
1:E:1770:PRO:HD2	1:E:1773:ILE:HD11	1.88	0.55
1:A:1025:ARG:NE	1:A:1025:ARG:HA	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1236:GLU:HG2	1:A:1237:GLN:N	2.22	0.55
1:A:1668:GLN:HE22	1:A:1669:GLN:HB3	1.71	0.55
1:A:1958:LEU:HG	1:A:1962:PHE:HE2	1.71	0.55
1:A:2410:VAL:HG12	1:A:2426:PHE:HA	1.88	0.55
1:C:1318:ARG:HD2	1:C:1318:ARG:N	2.21	0.55
1:C:1451:THR:O	1:C:1454:ARG:HG2	2.06	0.55
1:E:1942:ARG:HB3	1:E:1946:PHE:CE2	2.41	0.55
1:E:2495:GLU:OE1	1:E:2495:GLU:N	2.40	0.55
1:A:2495:GLU:N	1:A:2495:GLU:OE1	2.40	0.55
1:C:1025:ARG:NE	1:C:1025:ARG:HA	2.22	0.55
1:E:1354:ALA:HB1	1:E:1414:LEU:HB3	1.88	0.55
1:E:1733:ALA:O	1:E:1737:THR:HG23	2.06	0.55
1:E:2158:ILE:HD13	1:E:2533:TYR:OH	2.06	0.55
1:A:966:THR:HB	1:A:980:TYR:CE1	2.41	0.55
1:A:1719:MET:HA	1:A:2098:ARG:NH2	2.10	0.55
1:A:1965:ILE:HA	1:A:1968:THR:CG2	2.37	0.55
1:C:2115:ASN:O	1:C:2119:LEU:N	2.35	0.55
1:E:999:VAL:HA	1:E:1002:ILE:HG12	1.88	0.55
1:A:1002:ILE:HG22	1:A:1005:ARG:HH21	1.70	0.55
1:A:1213:LEU:O	1:A:1216:TYR:HB3	2.07	0.55
1:A:1280:ILE:O	1:A:1280:ILE:HG13	2.07	0.55
1:A:1451:THR:O	1:A:1454:ARG:HG2	2.06	0.55
1:A:1704:SER:HB2	1:A:1776:LEU:O	2.06	0.55
1:C:1280:ILE:HG13	1:C:1280:ILE:O	2.07	0.55
1:C:1959:GLN:HG3	1:C:1963:HIS:CE1	2.41	0.55
1:E:1025:ARG:HA	1:E:1025:ARG:NE	2.22	0.55
1:E:1037:CYS:O	1:E:1041:THR:HG23	2.07	0.55
1:E:1410:GLY:HA3	1:E:2531:PHE:CE2	2.41	0.55
1:A:1099:LEU:O	1:A:1102:LEU:HG	2.07	0.55
1:A:1410:GLY:HA3	1:A:2531:PHE:CE2	2.41	0.55
1:C:1194:PHE:HB2	1:C:1197:THR:OG1	2.06	0.55
1:C:1213:LEU:O	1:C:1216:TYR:HB3	2.07	0.55
1:C:1690:LEU:HD13	1:C:1693:PHE:CD2	2.42	0.55
1:C:2495:GLU:OE1	1:C:2495:GLU:N	2.40	0.55
1:E:996:LEU:HD22	1:E:1288:PHE:CE1	2.41	0.55
1:E:2169:ARG:NE	1:E:2498:PRO:O	2.31	0.55
1:E:2510:ILE:HD11	1:E:2522:GLU:HA	1.89	0.55
1:A:1350:LYS:HA	1:A:1353:ARG:NE	2.13	0.55
1:A:1494:MET:SD	1:A:1497:ARG:NH2	2.80	0.55
1:A:1733:ALA:O	1:A:1737:THR:HG23	2.06	0.55
1:A:2047:LEU:HA	1:A:2050:GLN:HE21	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1037:CYS:O	1:C:1041:THR:HG23	2.07	0.55
1:E:1099:LEU:O	1:E:1102:LEU:HG	2.07	0.55
1:E:1494:MET:SD	1:E:1497:ARG:NH2	2.80	0.55
1:E:2166:LYS:O	1:E:2170:GLU:HG3	2.06	0.55
1:A:1147:ARG:CD	1:A:1662:ALA:HA	2.29	0.55
1:A:1163:TRP:O	1:A:1166:LEU:HG	2.06	0.55
1:A:2183:LYS:HE2	1:A:2188:LYS:NZ	2.21	0.55
1:A:2481:VAL:HG22	1:A:2485:PHE:CZ	2.41	0.55
1:C:1958:LEU:HG	1:C:1962:PHE:CE2	2.42	0.55
1:E:1411:ASP:OD1	1:E:1412:TYR:N	2.40	0.55
1:E:1782:TYR:HD2	1:E:1783:ILE:HG22	1.72	0.55
1:E:2017:PRO:HA	1:E:2020:PHE:HD2	1.71	0.55
1:A:1788:VAL:HA	1:A:1791:MET:HG3	1.89	0.54
1:A:2017:PRO:HA	1:A:2020:PHE:HD2	1.71	0.54
1:A:2308:LEU:HD21	1:A:2354:LEU:HB3	1.89	0.54
1:C:1193:LEU:HA	1:C:1797:ARG:HH22	1.73	0.54
1:C:1788:VAL:HA	1:C:1791:MET:HG3	1.89	0.54
1:C:2510:ILE:HD11	1:C:2522:GLU:HA	1.89	0.54
1:E:966:THR:HB	1:E:980:TYR:CE1	2.41	0.54
1:E:1163:TRP:O	1:E:1166:LEU:HG	2.06	0.54
1:E:1193:LEU:HD13	1:E:1797:ARG:NH2	2.22	0.54
1:E:1213:LEU:O	1:E:1216:TYR:HB3	2.07	0.54
1:E:1312:THR:HA	1:E:1315:GLN:OE1	2.07	0.54
1:E:1668:GLN:HE22	1:E:1669:GLN:HB3	1.71	0.54
1:E:1965:ILE:HA	1:E:1968:THR:CG2	2.37	0.54
1:E:2047:LEU:HA	1:E:2050:GLN:HE21	1.71	0.54
1:E:2493:MET:CE	1:E:2493:MET:CA	2.86	0.54
1:A:1291:LEU:HA	1:A:1294:ARG:HD2	1.88	0.54
1:C:1312:THR:HA	1:C:1315:GLN:OE1	2.07	0.54
1:C:2119:LEU:HD22	1:C:2167:CYS:SG	2.48	0.54
1:C:2505:LYS:HZ2	1:C:2506:LEU:HD22	1.72	0.54
1:E:1454:ARG:HA	1:E:1457:ARG:CD	2.38	0.54
1:E:2115:ASN:O	1:E:2119:LEU:N	2.35	0.54
1:E:2191:MET:O	1:E:2194:LEU:HG	2.08	0.54
1:A:1193:LEU:HD13	1:A:1797:ARG:NH2	2.22	0.54
1:A:1696:ILE:HA	1:A:1699:HIS:CD2	2.42	0.54
1:A:2126:ARG:HH22	1:A:2132:VAL:HG13	1.73	0.54
1:A:2166:LYS:O	1:A:2170:GLU:HG3	2.06	0.54
1:C:1316:ALA:HA	1:C:1804:GLY:HA3	1.89	0.54
1:C:1665:PHE:O	1:C:1668:GLN:HG3	2.07	0.54
1:C:1770:PRO:HD2	1:C:1773:ILE:HD11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1965:ILE:HA	1:C:1968:THR:CG2	2.37	0.54
1:C:2126:ARG:HH22	1:C:2132:VAL:HG13	1.73	0.54
1:C:2196:ILE:O	1:C:2200:ILE:HG12	2.07	0.54
1:C:2410:VAL:HG12	1:C:2426:PHE:HA	1.88	0.54
1:A:1200:GLN:HA	1:A:1309:LEU:HD22	1.88	0.54
1:A:1958:LEU:HG	1:A:1962:PHE:CE2	2.42	0.54
1:A:2158:ILE:HD13	1:A:2533:TYR:OH	2.06	0.54
1:A:2191:MET:O	1:A:2194:LEU:HG	2.08	0.54
1:C:1196:THR:O	1:C:1199:LEU:HG	2.07	0.54
1:C:1291:LEU:HA	1:C:1294:ARG:HD2	1.88	0.54
1:C:1494:MET:SD	1:C:1497:ARG:NH2	2.80	0.54
1:C:2077:ALA:O	1:C:2081:LEU:N	2.40	0.54
1:E:2434:LEU:HD13	1:E:2444:LEU:HD22	1.89	0.54
1:A:1037:CYS:O	1:A:1041:THR:HG23	2.07	0.54
1:A:1307:ALA:O	1:A:1310:LYS:HG3	2.08	0.54
1:A:2115:ASN:OD1	1:A:2116:HIS:N	2.41	0.54
1:C:1004:GLN:OE1	1:C:1092:THR:OG1	2.26	0.54
1:C:1958:LEU:HG	1:C:1962:PHE:HE2	1.71	0.54
1:E:1316:ALA:HA	1:E:1804:GLY:HA3	1.89	0.54
1:E:2115:ASN:OD1	1:E:2116:HIS:N	2.41	0.54
1:E:2394:GLU:OE1	1:E:2398:TYR:OH	2.20	0.54
1:A:1003:GLY:O	1:A:1006:MET:HG3	2.08	0.54
1:A:1106:GLN:HA	1:A:1109:GLN:HE21	1.72	0.54
1:A:1782:TYR:HD2	1:A:1783:ILE:HG22	1.72	0.54
1:C:999:VAL:HA	1:C:1002:ILE:HG12	1.88	0.54
1:C:1023:ARG:O	1:C:1029:ILE:HD11	2.08	0.54
1:C:1106:GLN:HA	1:C:1109:GLN:HE21	1.72	0.54
1:C:2191:MET:O	1:C:2194:LEU:HG	2.08	0.54
1:E:1696:ILE:HA	1:E:1699:HIS:CD2	2.42	0.54
1:E:1700:MET:CG	1:E:2080:GLN:HB3	2.32	0.54
1:A:1193:LEU:HA	1:A:1797:ARG:HH22	1.73	0.54
1:A:1196:THR:O	1:A:1199:LEU:HG	2.07	0.54
1:A:1770:PRO:HD2	1:A:1773:ILE:HD11	1.88	0.54
1:C:1236:GLU:HG2	1:C:1237:GLN:N	2.22	0.54
1:C:2425:ASP:HB3	1:C:2426:PHE:HD1	1.73	0.54
1:E:1334:HIS:O	1:E:1337:ILE:HG12	2.07	0.54
1:E:1704:SER:HB2	1:E:1776:LEU:O	2.06	0.54
1:E:1741:VAL:HG23	1:E:1744:LYS:HE2	1.89	0.54
1:E:2525:LEU:HA	1:E:2528:LYS:HZ2	1.73	0.54
1:A:1339:GLU:O	1:A:1342:LEU:HB2	2.08	0.54
1:A:1714:VAL:HA	1:A:1729:PHE:CE2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2269:ALA:O	1:A:2273:ILE:HG13	2.08	0.54
1:C:1005:ARG:HE	1:C:1010:VAL:CG1	2.14	0.54
1:C:1005:ARG:HE	1:C:1010:VAL:HG12	1.71	0.54
1:C:1454:ARG:HA	1:C:1457:ARG:CD	2.38	0.54
1:E:1193:LEU:HA	1:E:1797:ARG:HH22	1.73	0.54
1:E:1196:THR:O	1:E:1199:LEU:HG	2.07	0.54
1:E:1236:GLU:HG2	1:E:1237:GLN:N	2.22	0.54
1:E:1280:ILE:HG13	1:E:1280:ILE:O	2.07	0.54
1:E:1958:LEU:HG	1:E:1962:PHE:CE2	2.42	0.54
1:A:1194:PHE:HB2	1:A:1197:THR:OG1	2.06	0.54
1:A:1209:LEU:HD12	1:A:1210:TRP:N	2.23	0.54
1:A:1334:HIS:O	1:A:1337:ILE:HG12	2.07	0.54
1:C:1310:LYS:NZ	1:C:1541:LEU:HB3	2.23	0.54
1:C:1411:ASP:OD1	1:C:1412:TYR:N	2.40	0.54
1:C:1782:TYR:HD2	1:C:1783:ILE:HG22	1.72	0.54
1:C:2269:ALA:O	1:C:2273:ILE:HG13	2.08	0.54
1:E:1347:ARG:HG3	1:E:1350:LYS:HD2	1.90	0.54
1:E:1665:PHE:O	1:E:1668:GLN:HG3	2.07	0.54
1:E:1714:VAL:HA	1:E:1729:PHE:CE2	2.43	0.54
1:E:1788:VAL:HA	1:E:1791:MET:HG3	1.89	0.54
1:E:2024:LEU:O	1:E:2027:GLN:NE2	2.41	0.54
1:E:2196:ILE:O	1:E:2200:ILE:HG12	2.07	0.54
1:E:2308:LEU:HD21	1:E:2354:LEU:HB3	1.89	0.54
1:E:2425:ASP:HB3	1:E:2426:PHE:HD1	1.73	0.54
1:A:1454:ARG:HA	1:A:1457:ARG:CD	2.38	0.54
1:A:2119:LEU:HD22	1:A:2167:CYS:SG	2.48	0.54
1:C:970:LEU:HD23	1:C:977:CYS:HA	1.88	0.54
1:C:1003:GLY:O	1:C:1006:MET:HG3	2.08	0.54
1:C:1099:LEU:O	1:C:1102:LEU:HG	2.07	0.54
1:C:1203:THR:HA	1:C:1206:GLN:NE2	2.23	0.54
1:C:1741:VAL:HG23	1:C:1744:LYS:HE2	1.89	0.54
1:C:2493:MET:CE	1:C:2493:MET:CA	2.86	0.54
1:E:1203:THR:HA	1:E:1206:GLN:NE2	2.23	0.54
1:E:1307:ALA:O	1:E:1310:LYS:HG3	2.08	0.54
1:E:1699:HIS:HA	1:E:1702:THR:O	2.08	0.54
1:A:1411:ASP:OD1	1:A:1412:TYR:N	2.40	0.53
1:A:2160:ALA:HA	1:A:2163:PHE:CD1	2.44	0.53
1:C:1339:GLU:O	1:C:1342:LEU:HB2	2.08	0.53
1:C:2153:MET:HE2	1:E:2485:PHE:HB3	1.89	0.53
1:E:1209:LEU:HD12	1:E:1210:TRP:N	2.23	0.53
1:A:1194:PHE:CD2	1:A:1198:LEU:HB3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2308:LEU:HD21	1:C:2354:LEU:HB3	1.89	0.53
1:C:2434:LEU:HD13	1:C:2444:LEU:HD22	1.89	0.53
1:E:1023:ARG:O	1:E:1029:ILE:HD11	2.08	0.53
1:A:663:ARG:HB2	1:A:670:ASP:OD1	2.08	0.53
1:A:1312:THR:HA	1:A:1315:GLN:OE1	2.07	0.53
1:A:2063:PHE:O	1:A:2066:PRO:HD2	2.08	0.53
1:A:2425:ASP:HB3	1:A:2426:PHE:HD1	1.73	0.53
1:A:2493:MET:CE	1:A:2493:MET:CA	2.86	0.53
1:C:621:PHE:O	1:C:625:TYR:N	2.41	0.53
1:C:1193:LEU:HD13	1:C:1797:ARG:NH2	2.22	0.53
1:C:1194:PHE:CD2	1:C:1198:LEU:HB3	2.43	0.53
1:C:1704:SER:N	1:C:1707:SER:OG	2.41	0.53
1:C:2133:GLU:O	1:C:2137:VAL:HG12	2.09	0.53
1:E:1106:GLN:HA	1:E:1109:GLN:HE21	1.72	0.53
1:E:1704:SER:N	1:E:1707:SER:OG	2.42	0.53
1:E:1958:LEU:HG	1:E:1962:PHE:HE2	1.71	0.53
1:E:2119:LEU:HD22	1:E:2167:CYS:SG	2.48	0.53
1:E:2133:GLU:O	1:E:2137:VAL:HG12	2.09	0.53
1:A:966:THR:HB	1:A:980:TYR:HE1	1.74	0.53
1:A:1316:ALA:HA	1:A:1804:GLY:HA3	1.89	0.53
1:A:1665:PHE:O	1:A:1668:GLN:HG3	2.07	0.53
1:C:1209:LEU:HD12	1:C:1210:TRP:N	2.23	0.53
1:C:1307:ALA:O	1:C:1310:LYS:HG3	2.08	0.53
1:C:1347:ARG:HG3	1:C:1350:LYS:HD2	1.90	0.53
1:C:1699:HIS:HA	1:C:1702:THR:O	2.08	0.53
1:C:2024:LEU:O	1:C:2027:GLN:NE2	2.41	0.53
1:E:663:ARG:HB2	1:E:670:ASP:OD1	2.08	0.53
1:E:1003:GLY:O	1:E:1006:MET:HG3	2.08	0.53
1:E:1310:LYS:NZ	1:E:1541:LEU:HB3	2.23	0.53
1:E:2126:ARG:HH22	1:E:2132:VAL:HG13	1.73	0.53
1:E:2160:ALA:HA	1:E:2163:PHE:CD1	2.44	0.53
1:A:621:PHE:O	1:A:625:TYR:N	2.41	0.53
1:A:1345:LEU:HA	1:A:1348:GLN:HB3	1.91	0.53
1:A:1699:HIS:HA	1:A:1702:THR:O	2.08	0.53
1:A:2505:LYS:NZ	1:A:2509:ASP:OD2	2.41	0.53
1:C:1311:ALA:O	1:C:1314:LEU:HD23	2.09	0.53
1:C:1696:ILE:HA	1:C:1699:HIS:CD2	2.42	0.53
1:C:1980:MET:HB3	1:C:2089:TYR:OH	2.08	0.53
1:C:2115:ASN:OD1	1:C:2116:HIS:N	2.41	0.53
1:E:2013:ASP:HB3	1:E:2015:GLN:HG3	1.91	0.53
1:A:1203:THR:HA	1:A:1206:GLN:NE2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1690:LEU:HD13	1:A:1693:PHE:CD2	2.42	0.53
1:A:1977:TYR:HA	1:A:1980:MET:HE1	1.89	0.53
1:A:2510:ILE:HD11	1:A:2522:GLU:HA	1.89	0.53
1:C:1200:GLN:CG	1:C:1309:LEU:HB2	2.39	0.53
1:C:2505:LYS:NZ	1:C:2509:ASP:OD2	2.41	0.53
1:E:673:LEU:HD13	1:E:676:LEU:HD12	1.91	0.53
1:E:2505:LYS:NZ	1:E:2509:ASP:OD2	2.41	0.53
1:A:673:LEU:HD13	1:A:676:LEU:HD12	1.91	0.53
1:A:1023:ARG:O	1:A:1029:ILE:HD11	2.08	0.53
1:A:2024:LEU:O	1:A:2027:GLN:NE2	2.41	0.53
1:A:2077:ALA:O	1:A:2081:LEU:N	2.40	0.53
1:A:2133:GLU:O	1:A:2137:VAL:HG12	2.09	0.53
1:A:2434:LEU:HD13	1:A:2444:LEU:HD22	1.89	0.53
1:C:1334:HIS:O	1:C:1337:ILE:HG12	2.08	0.53
1:E:1195:GLY:O	1:E:1198:LEU:HG	2.09	0.53
1:E:1224:LYS:NZ	1:E:1224:LYS:CB	2.71	0.53
1:E:1280:ILE:HB	1:E:1283:ASP:OD1	2.09	0.53
1:E:2063:PHE:O	1:E:2066:PRO:HD2	2.08	0.53
1:E:2269:ALA:O	1:E:2273:ILE:HG13	2.08	0.53
1:A:1144:ILE:H	1:A:1144:ILE:HD12	1.74	0.53
1:A:1523:PHE:HA	1:A:1526:HIS:CD2	2.44	0.53
1:A:2196:ILE:O	1:A:2200:ILE:HG12	2.07	0.53
1:C:1280:ILE:HB	1:C:1283:ASP:OD1	2.09	0.53
1:C:1339:GLU:HA	1:C:1342:LEU:HD12	1.91	0.53
1:C:1714:VAL:HA	1:C:1729:PHE:CE2	2.43	0.53
1:E:1144:ILE:H	1:E:1144:ILE:HD12	1.74	0.53
1:E:1246:ILE:HA	1:E:1249:PHE:O	2.08	0.53
1:E:1977:TYR:HA	1:E:1980:MET:HE2	1.90	0.53
1:E:2492:ILE:HG13	1:E:2493:MET:HE1	1.82	0.53
1:E:2526:TYR:O	1:E:2529:LEU:HG	2.08	0.53
1:A:1310:LYS:NZ	1:A:1541:LEU:HB3	2.23	0.53
1:A:1314:LEU:O	1:A:1318:ARG:NH1	2.42	0.53
1:A:1347:ARG:HG3	1:A:1350:LYS:HD2	1.90	0.53
1:A:2013:ASP:HB3	1:A:2015:GLN:HG3	1.91	0.53
1:A:2526:TYR:O	1:A:2529:LEU:HG	2.08	0.53
1:C:663:ARG:HB2	1:C:670:ASP:OD1	2.09	0.53
1:C:1314:LEU:O	1:C:1318:ARG:NH1	2.42	0.53
1:C:1325:ALA:O	1:C:1329:LYS:N	2.33	0.53
1:C:1345:LEU:HA	1:C:1348:GLN:HB3	1.91	0.53
1:C:2013:ASP:HB3	1:C:2015:GLN:HG3	1.91	0.53
1:C:2041:LYS:NZ	1:C:2046:LYS:HE3	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:657:ASP:O	1:E:660:THR:OG1	2.22	0.53
1:E:1242:PHE:O	1:E:1246:ILE:HB	2.09	0.53
1:E:1314:LEU:O	1:E:1318:ARG:NH1	2.42	0.53
1:E:1350:LYS:HG2	1:E:1353:ARG:HH11	1.74	0.53
1:E:1690:LEU:HD13	1:E:1693:PHE:CD2	2.42	0.53
1:E:2041:LYS:NZ	1:E:2046:LYS:HE3	2.24	0.53
1:A:1195:GLY:O	1:A:1198:LEU:HG	2.09	0.53
1:A:1210:TRP:O	1:A:1213:LEU:HB2	2.09	0.53
1:A:1311:ALA:O	1:A:1314:LEU:HD23	2.09	0.53
1:A:2244:GLN:HG2	1:A:2245:GLN:H	1.74	0.53
1:E:621:PHE:O	1:E:625:TYR:N	2.41	0.53
1:E:1194:PHE:CD2	1:E:1198:LEU:HB3	2.43	0.53
1:E:1339:GLU:O	1:E:1342:LEU:HB2	2.08	0.53
1:E:1510:GLN:O	1:E:1513:VAL:HG22	2.09	0.53
1:E:2503:ILE:HD12	1:E:2503:ILE:H	1.74	0.53
1:A:1224:LYS:NZ	1:A:1224:LYS:CB	2.70	0.52
1:A:1242:PHE:O	1:A:1246:ILE:HB	2.09	0.52
1:A:1980:MET:HB3	1:A:2089:TYR:OH	2.08	0.52
1:A:2041:LYS:NZ	1:A:2046:LYS:HE3	2.24	0.52
1:C:673:LEU:HD13	1:C:676:LEU:HD12	1.91	0.52
1:C:1027:GLU:OE1	1:C:1027:GLU:N	2.29	0.52
1:C:1510:GLN:O	1:C:1513:VAL:HG22	2.09	0.52
1:E:1147:ARG:NH2	1:E:1662:ALA:O	2.33	0.52
1:E:1333:PHE:HA	1:E:1336:GLN:OE1	2.10	0.52
1:E:1980:MET:HB3	1:E:2089:TYR:OH	2.08	0.52
1:A:1191:LEU:HA	1:A:1194:PHE:CE1	2.44	0.52
1:A:1246:ILE:HA	1:A:1249:PHE:O	2.08	0.52
1:A:1280:ILE:HB	1:A:1283:ASP:OD1	2.09	0.52
1:A:1722:ILE:CD1	1:A:1971:ARG:HD3	2.38	0.52
1:A:1741:VAL:HG23	1:A:1744:LYS:HE2	1.89	0.52
1:A:2071:ARG:HG2	1:A:2075:GLN:HG2	1.91	0.52
1:A:2133:GLU:OE1	1:A:2133:GLU:N	2.37	0.52
1:C:1144:ILE:H	1:C:1144:ILE:HD12	1.74	0.52
1:C:1523:PHE:HA	1:C:1526:HIS:CD2	2.44	0.52
1:C:1679:GLY:HA2	1:C:1682:CYS:HG	1.74	0.52
1:C:2063:PHE:O	1:C:2066:PRO:HD2	2.08	0.52
1:C:2503:ILE:H	1:C:2503:ILE:HD12	1.74	0.52
1:C:2526:TYR:O	1:C:2529:LEU:HG	2.08	0.52
1:E:1004:GLN:OE1	1:E:1092:THR:OG1	2.26	0.52
1:E:1668:GLN:NE2	1:E:1669:GLN:HB3	2.25	0.52
1:E:2511:PHE:O	1:E:2515:GLU:OE1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:966:THR:HB	1:C:980:TYR:HE1	1.74	0.52
1:C:1246:ILE:HA	1:C:1249:PHE:O	2.08	0.52
1:E:966:THR:HB	1:E:980:TYR:HE1	1.74	0.52
1:E:1165:VAL:CG1	1:E:1293:GLN:CG	2.57	0.52
1:E:1350:LYS:HA	1:E:1353:ARG:NE	2.13	0.52
1:E:2060:TRP:CE3	1:E:2061:MET:HG2	2.45	0.52
1:E:2077:ALA:O	1:E:2081:LEU:N	2.40	0.52
1:A:2511:PHE:O	1:A:2515:GLU:OE1	2.28	0.52
1:A:2513:VAL:HA	1:A:2516:THR:OG1	2.09	0.52
1:C:1191:LEU:HA	1:C:1194:PHE:CE1	2.44	0.52
1:C:1195:GLY:O	1:C:1198:LEU:HG	2.09	0.52
1:C:2060:TRP:CE3	1:C:2061:MET:HG2	2.45	0.52
1:C:2209:PHE:O	1:C:2214:ARG:N	2.34	0.52
1:E:1018:VAL:O	1:E:1022:THR:HG23	2.09	0.52
1:E:1191:LEU:HA	1:E:1194:PHE:CE1	2.44	0.52
1:E:1200:GLN:CG	1:E:1309:LEU:HB2	2.39	0.52
1:E:1311:ALA:O	1:E:1314:LEU:HD23	2.09	0.52
1:E:1339:GLU:HA	1:E:1342:LEU:HD12	1.91	0.52
1:E:1345:LEU:HA	1:E:1348:GLN:HB3	1.91	0.52
1:E:2204:TRP:HA	1:E:2207:LEU:HD12	1.91	0.52
1:A:1704:SER:N	1:A:1707:SER:OG	2.41	0.52
1:C:657:ASP:O	1:C:660:THR:OG1	2.22	0.52
1:C:1401:LEU:N	1:C:1401:LEU:CD2	2.73	0.52
1:E:663:ARG:HG3	1:E:668:PHE:O	2.10	0.52
1:E:1179:ILE:HD13	1:E:1249:PHE:CE1	2.45	0.52
1:E:1203:THR:HA	1:E:1206:GLN:HG2	1.92	0.52
1:E:1490:GLY:O	1:E:1494:MET:N	2.42	0.52
1:E:2513:VAL:HA	1:E:2516:THR:OG1	2.09	0.52
1:A:657:ASP:O	1:A:660:THR:OG1	2.22	0.52
1:A:1179:ILE:HD13	1:A:1249:PHE:CE1	2.45	0.52
1:A:1200:GLN:CG	1:A:1309:LEU:HB2	2.39	0.52
1:A:1333:PHE:HA	1:A:1336:GLN:OE1	2.10	0.52
1:A:1510:GLN:O	1:A:1513:VAL:HG22	2.09	0.52
1:A:1660:GLU:HA	1:A:1663:GLU:OE1	2.10	0.52
1:C:1018:VAL:O	1:C:1022:THR:HG23	2.09	0.52
1:C:1668:GLN:NE2	1:C:1669:GLN:HB3	2.25	0.52
1:C:2160:ALA:HA	1:C:2163:PHE:CD1	2.43	0.52
1:E:1726:SER:HB2	1:E:1729:PHE:CB	2.22	0.52
1:E:2071:ARG:HG2	1:E:2075:GLN:HG2	1.91	0.52
1:E:2083:TYR:HA	1:E:2086:LYS:NZ	2.25	0.52
1:E:2244:GLN:HG2	1:E:2245:GLN:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1004:GLN:OE1	1:A:1092:THR:OG1	2.26	0.52
1:A:1224:LYS:HZ1	1:A:1280:ILE:CG2	2.11	0.52
1:A:2072:MET:O	1:A:2076:ASN:ND2	2.36	0.52
1:A:2503:ILE:H	1:A:2503:ILE:HD12	1.74	0.52
1:C:663:ARG:HG3	1:C:668:PHE:O	2.10	0.52
1:C:1193:LEU:HA	1:C:1797:ARG:NH1	2.23	0.52
1:C:2058:HIS:HA	1:C:2062:PHE:HD2	1.74	0.52
1:C:2071:ARG:HG2	1:C:2075:GLN:HG2	1.91	0.52
1:C:2511:PHE:O	1:C:2515:GLU:OE1	2.28	0.52
1:E:2071:ARG:HH11	1:E:2076:ASN:CA	2.23	0.52
1:A:1018:VAL:O	1:A:1022:THR:HG23	2.09	0.52
1:A:2145:THR:O	1:A:2147:LEU:HG	2.10	0.52
1:A:2200:ILE:HB	1:A:2204:TRP:CZ3	2.44	0.52
1:A:2204:TRP:HA	1:A:2207:LEU:HD12	1.91	0.52
1:C:1179:ILE:HD13	1:C:1249:PHE:CE1	2.44	0.52
1:C:1242:PHE:O	1:C:1246:ILE:HB	2.09	0.52
1:E:1694:ILE:HA	1:E:1697:LEU:HG	1.92	0.52
1:A:1691:CYS:SG	1:A:1692:TYR:N	2.83	0.52
1:A:1694:ILE:HA	1:A:1697:LEU:HG	1.92	0.52
1:C:1519:TRP:CE2	1:C:1523:PHE:HE2	2.28	0.52
1:C:1660:GLU:HA	1:C:1663:GLU:OE1	2.10	0.52
1:C:1722:ILE:H	1:C:1722:ILE:HD12	1.75	0.52
1:C:2083:TYR:HA	1:C:2086:LYS:NZ	2.25	0.52
1:C:2145:THR:O	1:C:2147:LEU:HG	2.10	0.52
1:E:1198:LEU:HD12	1:E:1199:LEU:N	2.25	0.52
1:A:1198:LEU:HD12	1:A:1199:LEU:N	2.25	0.52
1:A:1980:MET:SD	1:A:2096:GLN:HG3	2.50	0.52
1:A:2244:GLN:HG2	1:A:2245:GLN:N	2.25	0.52
1:A:2488:ILE:HD11	1:E:2153:MET:SD	2.50	0.52
1:C:1165:VAL:HG12	1:C:1293:GLN:HG3	1.77	0.52
1:C:1198:LEU:HD12	1:C:1199:LEU:N	2.25	0.52
1:C:1203:THR:HA	1:C:1206:GLN:HG2	1.92	0.52
1:C:1350:LYS:HG2	1:C:1353:ARG:HH11	1.74	0.52
1:C:2244:GLN:HG2	1:C:2245:GLN:N	2.25	0.52
1:E:1210:TRP:O	1:E:1213:LEU:HB2	2.09	0.52
1:E:1519:TRP:CE2	1:E:1523:PHE:HE2	2.28	0.52
1:E:2072:MET:O	1:E:2076:ASN:ND2	2.36	0.52
1:A:1164:LEU:O	1:A:1168:VAL:HG13	2.10	0.51
1:A:1668:GLN:NE2	1:A:1669:GLN:HB3	2.25	0.51
1:A:2071:ARG:HH11	1:A:2076:ASN:CA	2.23	0.51
1:C:1224:LYS:NZ	1:C:1224:LYS:CB	2.71	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2513:VAL:HA	1:C:2516:THR:OG1	2.09	0.51
1:E:1523:PHE:HA	1:E:1526:HIS:CD2	2.44	0.51
1:A:1246:ILE:HD12	1:A:1249:PHE:O	2.10	0.51
1:C:1210:TRP:O	1:C:1213:LEU:HB2	2.09	0.51
1:C:1490:GLY:O	1:C:1494:MET:N	2.42	0.51
1:C:1691:CYS:SG	1:C:1692:TYR:N	2.83	0.51
1:C:2145:THR:HG22	1:C:2147:LEU:HD23	1.92	0.51
1:C:2200:ILE:HB	1:C:2204:TRP:CZ3	2.44	0.51
1:E:1001:VAL:HG11	1:E:1099:LEU:HB2	1.92	0.51
1:E:1246:ILE:HD12	1:E:1249:PHE:O	2.10	0.51
1:A:1722:ILE:H	1:A:1722:ILE:HD12	1.75	0.51
1:A:2153:MET:SD	1:C:2488:ILE:HD11	2.50	0.51
1:C:1091:SER:HB2	1:C:1094:LEU:HD13	1.92	0.51
1:C:1348:GLN:OE1	1:C:1351:ARG:NE	2.43	0.51
1:E:1401:LEU:N	1:E:1401:LEU:CD2	2.73	0.51
1:E:2050:GLN:NE2	1:E:2051:VAL:HG13	2.26	0.51
1:E:2145:THR:O	1:E:2147:LEU:HG	2.10	0.51
1:E:2244:GLN:HG2	1:E:2245:GLN:N	2.25	0.51
1:A:663:ARG:HG3	1:A:668:PHE:O	2.10	0.51
1:A:1110:VAL:O	1:A:1113:ALA:HB3	2.11	0.51
1:A:1149:TYR:HA	1:A:1152:MET:HE2	1.91	0.51
1:A:1238:MET:O	1:A:1242:PHE:CB	2.51	0.51
1:A:1976:VAL:N	1:A:2096:GLN:HE22	2.05	0.51
1:A:2060:TRP:CE3	1:A:2061:MET:HG2	2.45	0.51
1:C:1246:ILE:HD12	1:C:1249:PHE:O	2.10	0.51
1:C:1694:ILE:HA	1:C:1697:LEU:HG	1.92	0.51
1:C:2244:GLN:HG2	1:C:2245:GLN:H	1.74	0.51
1:E:1722:ILE:CD1	1:E:1971:ARG:HD3	2.38	0.51
1:E:1980:MET:SD	1:E:2096:GLN:HG3	2.50	0.51
1:A:1203:THR:HA	1:A:1206:GLN:HG2	1.92	0.51
1:A:1291:LEU:HA	1:A:1294:ARG:CD	2.40	0.51
1:A:2478:GLY:HA2	1:A:2481:VAL:HG12	1.93	0.51
1:C:1722:ILE:CD1	1:C:1971:ARG:HD3	2.38	0.51
1:E:1324:ASN:OD1	1:E:1325:ALA:N	2.44	0.51
1:E:1348:GLN:OE1	1:E:1351:ARG:NE	2.43	0.51
1:A:1348:GLN:OE1	1:A:1351:ARG:NE	2.43	0.51
1:A:1986:VAL:HA	1:A:1989:ILE:HD12	1.92	0.51
1:A:2050:GLN:NE2	1:A:2051:VAL:HG13	2.26	0.51
1:A:2145:THR:HG22	1:A:2147:LEU:HD23	1.92	0.51
1:C:1147:ARG:CD	1:C:1662:ALA:HA	2.29	0.51
1:C:1164:LEU:O	1:C:1168:VAL:HG13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1333:PHE:HA	1:C:1336:GLN:OE1	2.10	0.51
1:C:1700:MET:CG	1:C:2080:GLN:CB	2.88	0.51
1:C:1986:VAL:HA	1:C:1989:ILE:HD12	1.92	0.51
1:C:2055:VAL:O	1:C:2059:ILE:HG12	2.11	0.51
1:C:2204:TRP:HA	1:C:2207:LEU:HD12	1.91	0.51
1:E:1001:VAL:O	1:E:1005:ARG:HG3	2.11	0.51
1:E:1164:LEU:O	1:E:1168:VAL:HG13	2.10	0.51
1:E:1660:GLU:HA	1:E:1663:GLU:OE1	2.10	0.51
1:E:2314:ASP:N	1:E:2314:ASP:OD1	2.44	0.51
1:A:1001:VAL:HG11	1:A:1099:LEU:HB2	1.92	0.51
1:A:1001:VAL:O	1:A:1005:ARG:HG3	2.11	0.51
1:A:1030:ALA:HA	1:A:1033:TRP:CD1	2.37	0.51
1:A:1324:ASN:OD1	1:A:1325:ALA:N	2.44	0.51
1:A:1339:GLU:HA	1:A:1342:LEU:HD12	1.91	0.51
1:A:1401:LEU:N	1:A:1401:LEU:CD2	2.73	0.51
1:A:1442:TYR:CE1	1:A:2175:TYR:HB3	2.46	0.51
1:A:1490:GLY:O	1:A:1494:MET:N	2.42	0.51
1:A:2083:TYR:HA	1:A:2086:LYS:NZ	2.25	0.51
1:A:2111:THR:O	1:A:2118:ASN:ND2	2.43	0.51
1:C:1042:LEU:O	1:C:1045:LEU:HG	2.11	0.51
1:C:1980:MET:SD	1:C:2096:GLN:HG3	2.50	0.51
1:C:2050:GLN:NE2	1:C:2051:VAL:HG13	2.26	0.51
1:C:2177:GLN:OE1	1:C:2177:GLN:N	2.43	0.51
1:E:1147:ARG:CD	1:E:1662:ALA:HA	2.29	0.51
1:E:1291:LEU:HA	1:E:1294:ARG:CD	2.40	0.51
1:E:2525:LEU:HA	1:E:2528:LYS:NZ	2.26	0.51
1:A:1794:PHE:O	1:A:1797:ARG:HG3	2.11	0.51
1:A:2081:LEU:HA	1:A:2084:PHE:CD1	2.46	0.51
1:A:2184:LYS:O	1:A:2188:LYS:NZ	2.40	0.51
1:C:1735:VAL:HA	1:C:1738:GLU:OE1	2.11	0.51
1:C:2525:LEU:HA	1:C:2528:LYS:HZ3	1.76	0.51
1:A:1091:SER:HB2	1:A:1094:LEU:HD13	1.92	0.51
1:A:1341:SER:HB2	1:A:2512:LEU:HD21	1.93	0.51
1:A:1350:LYS:HG2	1:A:1353:ARG:HH11	1.74	0.51
1:A:1519:TRP:CE2	1:A:1523:PHE:HE2	2.27	0.51
1:A:1721:THR:HG23	1:A:1725:PRO:HA	1.93	0.51
1:A:2374:LYS:HD2	1:A:2399:LEU:HD11	1.93	0.51
1:C:1721:THR:HG23	1:C:1725:PRO:HA	1.93	0.51
1:C:2153:MET:SD	1:E:2488:ILE:HD11	2.51	0.51
1:C:2394:GLU:OE1	1:C:2398:TYR:OH	2.20	0.51
1:E:1110:VAL:O	1:E:1113:ALA:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1691:CYS:SG	1:E:1692:TYR:N	2.83	0.51
1:E:2478:GLY:HA2	1:E:2481:VAL:HG12	1.93	0.51
1:C:1001:VAL:O	1:C:1005:ARG:HG3	2.11	0.51
1:C:1291:LEU:HA	1:C:1294:ARG:CD	2.40	0.51
1:C:1324:ASN:OD1	1:C:1325:ALA:N	2.44	0.51
1:C:2145:THR:OG1	1:C:2522:GLU:HG2	2.11	0.51
1:C:2153:MET:HE1	1:E:2485:PHE:HB3	1.93	0.51
1:E:1964:ASP:O	1:E:1968:THR:HG23	2.11	0.51
1:E:2111:THR:O	1:E:2118:ASN:ND2	2.43	0.51
1:E:2374:LYS:HD2	1:E:2399:LEU:HD11	1.93	0.51
1:C:1001:VAL:HG11	1:C:1099:LEU:HB2	1.92	0.50
1:C:1110:VAL:O	1:C:1113:ALA:HB3	2.11	0.50
1:C:2184:LYS:O	1:C:2188:LYS:NZ	2.40	0.50
1:E:1721:THR:HG23	1:E:1725:PRO:HA	1.93	0.50
1:E:1743:THR:O	1:E:1746:LEU:HG	2.11	0.50
1:E:1744:LYS:NZ	1:E:1782:TYR:O	2.34	0.50
1:A:1074:SER:O	1:A:1077:ILE:HG22	2.11	0.50
1:A:1726:SER:HB2	1:A:1729:PHE:CB	2.22	0.50
1:C:970:LEU:HD21	1:C:980:TYR:HB3	1.93	0.50
1:C:1101:LEU:HD12	1:C:1102:LEU:N	2.27	0.50
1:C:1357:GLU:O	1:C:1360:ARG:HG3	2.12	0.50
1:C:1442:TYR:CE1	1:C:2175:TYR:HB3	2.46	0.50
1:E:970:LEU:HD21	1:E:980:TYR:HB3	1.93	0.50
1:E:997:MET:HA	1:E:1000:ASN:HD21	1.77	0.50
1:E:1101:LEU:HD12	1:E:1102:LEU:N	2.27	0.50
1:E:1695:ILE:HA	1:E:1698:ASN:ND2	2.27	0.50
1:E:2081:LEU:HA	1:E:2084:PHE:CD1	2.46	0.50
1:A:648:ILE:O	1:A:652:THR:HG23	2.11	0.50
1:A:1357:GLU:O	1:A:1360:ARG:HG3	2.12	0.50
1:C:1159:ARG:HH21	1:C:1163:TRP:HH2	1.59	0.50
1:C:1794:PHE:O	1:C:1797:ARG:HG3	2.11	0.50
1:C:2155:VAL:HA	1:C:2158:ILE:HD12	1.93	0.50
1:C:2191:MET:SD	1:C:2192:GLY:N	2.84	0.50
1:C:2478:GLY:HA2	1:C:2481:VAL:HG12	1.93	0.50
1:E:1042:LEU:O	1:E:1045:LEU:HG	2.11	0.50
1:E:1657:PRO:HA	1:E:1660:GLU:CD	2.32	0.50
1:E:1986:VAL:HA	1:E:1989:ILE:HD12	1.92	0.50
1:E:2055:VAL:O	1:E:2059:ILE:HG12	2.11	0.50
1:E:2145:THR:OG1	1:E:2522:GLU:HG2	2.11	0.50
1:A:1743:THR:O	1:A:1746:LEU:HG	2.11	0.50
1:A:1964:ASP:O	1:A:1968:THR:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2055:VAL:O	1:A:2059:ILE:HG12	2.11	0.50
1:A:2155:VAL:HA	1:A:2158:ILE:HD12	1.93	0.50
1:E:1074:SER:O	1:E:1077:ILE:HG22	2.11	0.50
1:E:1341:SER:HB2	1:E:2512:LEU:HD21	1.93	0.50
1:E:1996:TRP:HB2	1:E:2001:HIS:O	2.11	0.50
1:E:2200:ILE:HB	1:E:2204:TRP:CZ3	2.44	0.50
1:A:1193:LEU:HA	1:A:1797:ARG:NH1	2.23	0.50
1:A:1318:ARG:O	1:A:1322:LEU:HG	2.12	0.50
1:A:1679:GLY:HA2	1:A:1682:CYS:HG	1.77	0.50
1:A:2145:THR:OG1	1:A:2522:GLU:HG2	2.11	0.50
1:A:2191:MET:SD	1:A:2192:GLY:N	2.84	0.50
1:A:2468:GLY:O	1:A:2471:VAL:HG22	2.12	0.50
1:A:2525:LEU:HA	1:A:2528:LYS:NZ	2.26	0.50
1:C:1341:SER:HB2	1:C:2512:LEU:HD21	1.93	0.50
1:C:1743:THR:O	1:C:1746:LEU:HG	2.11	0.50
1:C:1963:HIS:O	1:C:1966:LEU:HB3	2.12	0.50
1:C:1964:ASP:O	1:C:1968:THR:HG23	2.11	0.50
1:C:2081:LEU:HA	1:C:2084:PHE:CD1	2.46	0.50
1:E:1735:VAL:HA	1:E:1738:GLU:OE1	2.11	0.50
1:E:2050:GLN:O	1:E:2053:LEU:HG	2.12	0.50
1:E:2184:LYS:HZ3	1:E:2186:ILE:HD11	1.77	0.50
1:E:2191:MET:SD	1:E:2192:GLY:N	2.84	0.50
1:A:1342:LEU:O	1:A:1345:LEU:HB2	2.12	0.50
1:A:1439:GLN:HG2	1:A:1440:MET:SD	2.52	0.50
1:A:1464:ARG:HA	1:A:1467:GLN:OE1	2.12	0.50
1:A:1700:MET:SD	1:A:2080:GLN:CG	2.99	0.50
1:E:648:ILE:O	1:E:652:THR:HG23	2.11	0.50
1:E:1245:VAL:HG22	1:E:1248:LEU:HD12	1.94	0.50
1:E:1342:LEU:O	1:E:1345:LEU:HB2	2.12	0.50
1:E:1976:VAL:N	1:E:2096:GLN:HE22	2.05	0.50
1:E:2054:VAL:O	1:E:2057:ILE:HG12	2.12	0.50
1:A:1118:GLU:OE1	1:A:1118:GLU:N	2.30	0.50
1:A:1215:LEU:O	1:A:1219:THR:OG1	2.25	0.50
1:A:2479:LYS:HD2	1:A:2482:ARG:NH1	2.27	0.50
1:C:1044:LEU:HD23	1:C:1097:ASP:OD1	2.12	0.50
1:C:1412:TYR:HH	1:C:2531:PHE:HD1	1.59	0.50
1:C:2054:VAL:O	1:C:2057:ILE:HG12	2.12	0.50
1:C:2061:MET:HA	1:C:2066:PRO:CG	2.40	0.50
1:C:2525:LEU:HA	1:C:2528:LYS:NZ	2.26	0.50
1:E:1339:GLU:O	1:E:1343:ALA:N	2.45	0.50
1:E:1464:ARG:HA	1:E:1467:GLN:OE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2145:THR:HG22	1:E:2147:LEU:HD23	1.92	0.50
1:A:2314:ASP:OD1	1:A:2314:ASP:N	2.44	0.50
1:C:997:MET:HA	1:C:1000:ASN:HD21	1.77	0.50
1:C:1464:ARG:HA	1:C:1467:GLN:OE1	2.12	0.50
1:C:1695:ILE:HA	1:C:1698:ASN:ND2	2.27	0.50
1:C:2024:LEU:HA	1:C:2027:GLN:HE21	1.77	0.50
1:C:2050:GLN:O	1:C:2053:LEU:HG	2.12	0.50
1:C:2479:LYS:HD2	1:C:2482:ARG:NH1	2.27	0.50
1:E:1018:VAL:HG11	1:E:1222:ILE:HD11	1.94	0.50
1:E:2165:ILE:O	1:E:2169:ARG:HG3	2.12	0.50
1:A:1042:LEU:O	1:A:1045:LEU:HG	2.11	0.50
1:A:1101:LEU:HD12	1:A:1102:LEU:N	2.27	0.50
1:A:1159:ARG:HH21	1:A:1163:TRP:HH2	1.59	0.50
1:A:2054:VAL:O	1:A:2057:ILE:HG12	2.12	0.50
1:C:1318:ARG:O	1:C:1322:LEU:HG	2.12	0.50
1:E:1091:SER:HB2	1:E:1094:LEU:HD13	1.92	0.50
1:E:1439:GLN:HG2	1:E:1440:MET:SD	2.52	0.50
1:E:1442:TYR:CE1	1:E:2175:TYR:HB3	2.46	0.50
1:E:1794:PHE:O	1:E:1797:ARG:HG3	2.11	0.50
1:A:1005:ARG:NH1	1:A:1011:ILE:HG13	2.19	0.49
1:A:1246:ILE:HD11	1:A:1251:LEU:H	1.77	0.49
1:A:1735:VAL:HA	1:A:1738:GLU:OE1	2.11	0.49
1:A:2184:LYS:HZ3	1:A:2186:ILE:HD11	1.76	0.49
1:C:648:ILE:O	1:C:652:THR:HG23	2.11	0.49
1:C:1029:ILE:HG22	1:C:1033:TRP:HE1	1.77	0.49
1:C:1106:GLN:HA	1:C:1109:GLN:NE2	2.27	0.49
1:C:2165:ILE:O	1:C:2169:ARG:HG3	2.12	0.49
1:E:974:LEU:HD21	1:E:1149:TYR:CE2	2.47	0.49
1:E:1722:ILE:H	1:E:1722:ILE:HD12	1.75	0.49
1:E:2024:LEU:HA	1:E:2027:GLN:HE21	1.77	0.49
1:E:2058:HIS:HA	1:E:2062:PHE:HD2	1.74	0.49
1:A:1018:VAL:HG11	1:A:1222:ILE:HD11	1.94	0.49
1:A:1136:GLU:N	1:A:1137:PRO:HD2	2.27	0.49
1:A:2165:ILE:O	1:A:2169:ARG:HG3	2.12	0.49
1:A:2182:LYS:HE3	1:E:2146:THR:H	1.78	0.49
1:C:1136:GLU:N	1:C:1137:PRO:HD2	2.27	0.49
1:C:1532:ASP:OD1	1:C:1533:VAL:N	2.45	0.49
1:C:1735:VAL:HA	1:C:1738:GLU:OE2	2.12	0.49
1:C:2146:THR:H	1:E:2182:LYS:HE3	1.77	0.49
1:C:2468:GLY:O	1:C:2471:VAL:HG22	2.12	0.49
1:E:1656:ILE:HB	1:E:1659:LEU:HD23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1942:ARG:HB3	1:E:1946:PHE:CD2	2.47	0.49
1:E:2115:ASN:OD1	1:E:2116:HIS:ND1	2.45	0.49
1:A:1106:GLN:HA	1:A:1109:GLN:NE2	2.27	0.49
1:A:1195:GLY:HA2	1:A:1198:LEU:CD2	2.42	0.49
1:A:1336:GLN:HB3	1:A:1340:LYS:HZ1	1.77	0.49
1:A:1349:MET:O	1:A:1352:ILE:HB	2.13	0.49
1:A:1657:PRO:HA	1:A:1660:GLU:CD	2.32	0.49
1:A:1963:HIS:O	1:A:1966:LEU:HB3	2.12	0.49
1:A:2521:LEU:HD13	1:A:2524:GLU:OE1	2.13	0.49
1:C:1074:SER:O	1:C:1077:ILE:HG22	2.11	0.49
1:C:1942:ARG:HB3	1:C:1946:PHE:CD2	2.48	0.49
1:C:2111:THR:O	1:C:2118:ASN:ND2	2.43	0.49
1:C:2314:ASP:OD1	1:C:2314:ASP:N	2.44	0.49
1:E:2468:GLY:O	1:E:2471:VAL:HG22	2.12	0.49
1:A:974:LEU:HD21	1:A:1149:TYR:CE2	2.47	0.49
1:A:1339:GLU:O	1:A:1343:ALA:N	2.45	0.49
1:A:1942:ARG:HB3	1:A:1946:PHE:CD2	2.48	0.49
1:A:1996:TRP:HB2	1:A:2001:HIS:O	2.11	0.49
1:C:1025:ARG:HA	1:C:1025:ARG:HE	1.78	0.49
1:C:1194:PHE:HD2	1:C:1198:LEU:HB3	1.77	0.49
1:E:1064:TRP:HD1	1:E:1065:ARG:HG2	1.78	0.49
1:E:1136:GLU:N	1:E:1137:PRO:HD2	2.27	0.49
1:A:2024:LEU:HA	1:A:2027:GLN:HE21	1.77	0.49
1:A:2050:GLN:O	1:A:2053:LEU:HG	2.12	0.49
1:A:2325:ARG:NH2	1:A:2333:VAL:HG13	2.27	0.49
1:C:974:LEU:HD21	1:C:1149:TYR:CE2	2.47	0.49
1:C:1294:ARG:NH2	1:C:1295:ARG:HB2	2.28	0.49
1:C:2492:ILE:CG1	1:C:2493:MET:HE3	2.34	0.49
1:A:997:MET:HA	1:A:1000:ASN:HD21	1.77	0.49
1:A:1044:LEU:HD23	1:A:1097:ASP:OD1	2.12	0.49
1:A:1188:CYS:O	1:A:1192:LEU:HB2	2.13	0.49
1:A:1695:ILE:HA	1:A:1698:ASN:ND2	2.27	0.49
1:C:2184:LYS:HZ3	1:C:2186:ILE:HD11	1.76	0.49
1:E:1044:LEU:HD23	1:E:1097:ASP:OD1	2.12	0.49
1:E:1318:ARG:O	1:E:1322:LEU:HG	2.12	0.49
1:E:1799:GLN:O	1:E:1803:TYR:HD2	1.96	0.49
1:E:2155:VAL:HA	1:E:2158:ILE:HD12	1.93	0.49
1:E:2521:LEU:HD13	1:E:2524:GLU:OE1	2.13	0.49
1:C:1018:VAL:HG11	1:C:1222:ILE:HD11	1.94	0.49
1:C:1147:ARG:HH11	1:C:1152:MET:CE	2.26	0.49
1:C:1317:SER:O	1:C:1320:PHE:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1797:ARG:O	1:C:1800:LEU:HG	2.13	0.49
1:C:2159:TYR:HH	1:C:2507:CYS:HG	1.60	0.49
1:E:997:MET:O	1:E:1001:VAL:HG22	2.13	0.49
1:E:1317:SER:O	1:E:1320:PHE:HB2	2.13	0.49
1:A:1027:GLU:OE1	1:A:1027:GLU:N	2.29	0.49
1:A:1656:ILE:HB	1:A:1659:LEU:HD23	1.94	0.49
1:A:1665:PHE:HA	1:A:1668:GLN:HG3	1.94	0.49
1:A:1770:PRO:HG3	1:A:1772:ARG:NH2	2.27	0.49
1:C:1996:TRP:HB2	1:C:2001:HIS:O	2.11	0.49
1:C:2374:LYS:HD2	1:C:2399:LEU:HD11	1.93	0.49
1:C:2521:LEU:HD13	1:C:2524:GLU:OE1	2.13	0.49
1:E:1016:TRP:O	1:E:1020:ILE:HG13	2.13	0.49
1:E:1188:CYS:O	1:E:1192:LEU:HB2	2.13	0.49
1:E:1195:GLY:HA2	1:E:1198:LEU:CD2	2.42	0.49
1:E:1245:VAL:HA	1:E:1248:LEU:HD12	1.95	0.49
1:E:1357:GLU:O	1:E:1360:ARG:HG3	2.12	0.49
1:E:1770:PRO:HG3	1:E:1772:ARG:NH2	2.27	0.49
1:A:1294:ARG:NH2	1:A:1295:ARG:HB2	2.27	0.49
1:A:1532:ASP:OD1	1:A:1533:VAL:N	2.45	0.49
1:A:2115:ASN:O	1:A:2119:LEU:N	2.35	0.49
1:A:2209:PHE:O	1:A:2214:ARG:N	2.34	0.49
1:C:997:MET:O	1:C:1001:VAL:HG22	2.13	0.49
1:C:1138:ASN:HB2	1:C:1139:PRO:HD3	1.95	0.49
1:C:1705:ALA:O	1:C:1708:LEU:HG	2.13	0.49
1:E:983:ASN:HA	1:E:986:PHE:CZ	2.48	0.49
1:E:1030:ALA:HA	1:E:1033:TRP:CD1	2.37	0.49
1:E:1349:MET:O	1:E:1352:ILE:HB	2.13	0.49
1:E:1532:ASP:OD1	1:E:1533:VAL:N	2.45	0.49
1:E:1963:HIS:O	1:E:1966:LEU:HB3	2.12	0.49
1:A:2169:ARG:O	1:A:2172:GLU:HG3	2.13	0.49
1:C:1157:VAL:O	1:C:1161:LEU:CB	2.41	0.49
1:C:1195:GLY:HA2	1:C:1198:LEU:CD2	2.42	0.49
1:C:1245:VAL:HA	1:C:1248:LEU:HD12	1.95	0.49
1:C:1342:LEU:O	1:C:1345:LEU:HB2	2.12	0.49
1:C:1439:GLN:HG2	1:C:1440:MET:SD	2.52	0.49
1:C:1977:TYR:HA	1:C:1980:MET:HE1	1.95	0.49
1:C:2325:ARG:NH2	1:C:2333:VAL:HG13	2.27	0.49
1:E:2434:LEU:HD12	1:E:2434:LEU:HA	1.64	0.49
1:E:2479:LYS:HD2	1:E:2482:ARG:NH1	2.27	0.49
1:A:1029:ILE:HG22	1:A:1033:TRP:HE1	1.77	0.48
1:A:1195:GLY:HA2	1:A:1198:LEU:HG	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2053:LEU:HD22	1:A:2090:PHE:CD1	2.48	0.48
1:A:2165:ILE:HG23	1:A:2169:ARG:NH1	2.28	0.48
1:C:1016:TRP:O	1:C:1020:ILE:HG13	2.13	0.48
1:C:1332:ASN:OD1	1:C:1333:PHE:N	2.46	0.48
1:C:1657:PRO:HA	1:C:1660:GLU:CD	2.32	0.48
1:C:1665:PHE:HA	1:C:1668:GLN:HG3	1.95	0.48
1:C:1770:PRO:HG3	1:C:1772:ARG:NH2	2.27	0.48
1:C:1790:LEU:CG	1:C:1794:PHE:CE2	2.83	0.48
1:E:1008:PHE:HD2	1:E:1079:TRP:CE2	2.31	0.48
1:E:1176:ARG:HB2	1:E:1282:TRP:CE3	2.48	0.48
1:E:1294:ARG:NH2	1:E:1295:ARG:HB2	2.27	0.48
1:E:1338:GLU:O	1:E:1341:SER:HB3	2.13	0.48
1:E:2061:MET:HA	1:E:2066:PRO:CG	2.40	0.48
1:A:1064:TRP:HD1	1:A:1065:ARG:HG2	1.78	0.48
1:A:1245:VAL:HG22	1:A:1248:LEU:HD12	1.94	0.48
1:A:1735:VAL:HA	1:A:1738:GLU:OE2	2.12	0.48
1:A:2018:GLN:O	1:A:2021:LEU:HG	2.14	0.48
1:C:1044:LEU:O	1:C:1047:GLN:HG3	2.13	0.48
1:C:1188:CYS:O	1:C:1192:LEU:HB2	2.13	0.48
1:C:1245:VAL:HG22	1:C:1248:LEU:HD12	1.94	0.48
1:C:1246:ILE:HD11	1:C:1251:LEU:H	1.77	0.48
1:C:1339:GLU:O	1:C:1343:ALA:N	2.45	0.48
1:C:2118:ASN:O	1:C:2121:LEU:HG	2.13	0.48
1:E:1093:ASN:OD1	1:E:1094:LEU:HD12	2.13	0.48
1:E:1106:GLN:HA	1:E:1109:GLN:NE2	2.27	0.48
1:E:1159:ARG:HH21	1:E:1163:TRP:HH2	1.59	0.48
1:E:1529:THR:OG1	1:E:1530:MET:SD	2.71	0.48
1:E:1992:ILE:HA	1:E:1995:PHE:CE2	2.49	0.48
1:A:1705:ALA:O	1:A:1708:LEU:HG	2.13	0.48
1:A:1976:VAL:H	1:A:2096:GLN:NE2	2.07	0.48
1:A:1992:ILE:HA	1:A:1995:PHE:CE2	2.49	0.48
1:C:1165:VAL:HA	1:C:1168:VAL:HG22	1.96	0.48
1:C:2054:VAL:O	1:C:2058:HIS:HD2	1.97	0.48
1:E:996:LEU:HD13	1:E:1288:PHE:CD1	2.48	0.48
1:E:1025:ARG:HA	1:E:1025:ARG:HE	1.77	0.48
1:E:1138:ASN:HB2	1:E:1139:PRO:HD3	1.95	0.48
1:E:1705:ALA:O	1:E:1708:LEU:HG	2.13	0.48
1:E:2325:ARG:NH2	1:E:2333:VAL:HG13	2.27	0.48
1:A:1016:TRP:O	1:A:1020:ILE:HG13	2.13	0.48
1:A:1115:ARG:O	1:A:1116:THR:OG1	2.32	0.48
1:C:1030:ALA:HA	1:C:1033:TRP:CD1	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1156:ALA:O	1:C:1160:TYR:HB2	2.13	0.48
1:C:1521:ARG:HH12	1:C:1528:ARG:NH1	2.09	0.48
1:E:1197:THR:HA	1:E:1200:GLN:OE1	2.14	0.48
1:E:1332:ASN:OD1	1:E:1333:PHE:N	2.47	0.48
1:E:1521:ARG:HH12	1:E:1528:ARG:NH1	2.09	0.48
1:E:1797:ARG:O	1:E:1800:LEU:HG	2.13	0.48
1:E:2134:LEU:HD12	1:E:2135:ARG:N	2.29	0.48
1:E:2165:ILE:HG23	1:E:2169:ARG:NH1	2.28	0.48
1:E:2513:VAL:O	1:E:2517:ARG:N	2.45	0.48
1:A:1245:VAL:HA	1:A:1248:LEU:HD12	1.95	0.48
1:A:2118:ASN:O	1:A:2121:LEU:HG	2.13	0.48
1:A:2172:GLU:OE2	1:A:2173:LYS:HG2	2.14	0.48
1:A:2513:VAL:O	1:A:2517:ARG:N	2.45	0.48
1:C:1064:TRP:HD1	1:C:1065:ARG:HG2	1.78	0.48
1:C:1118:GLU:OE1	1:C:1118:GLU:N	2.30	0.48
1:C:1349:MET:O	1:C:1352:ILE:HB	2.13	0.48
1:C:1529:THR:OG1	1:C:1530:MET:SD	2.71	0.48
1:C:1656:ILE:HB	1:C:1659:LEU:HD23	1.94	0.48
1:C:2169:ARG:O	1:C:2172:GLU:HG3	2.13	0.48
1:E:691:LEU:O	1:E:695:PHE:N	2.35	0.48
1:E:1136:GLU:O	1:E:1139:PRO:HD2	2.14	0.48
1:E:1195:GLY:HA2	1:E:1198:LEU:HG	1.95	0.48
1:E:2493:MET:HE2	1:E:2493:MET:CA	2.37	0.48
1:A:970:LEU:HD21	1:A:980:TYR:HB3	1.93	0.48
1:A:1165:VAL:HA	1:A:1168:VAL:HG22	1.96	0.48
1:A:1172:ALA:O	1:A:1175:THR:HG22	2.14	0.48
1:A:1197:THR:HA	1:A:1200:GLN:OE1	2.14	0.48
1:A:1490:GLY:O	1:A:1494:MET:HG2	2.14	0.48
1:A:1797:ARG:O	1:A:1800:LEU:HG	2.13	0.48
1:A:2054:VAL:O	1:A:2058:HIS:HD2	1.97	0.48
1:A:2285:GLN:HB3	1:A:2443:LEU:HD11	1.96	0.48
1:A:2534:ARG:CZ	1:C:2496:GLU:HB2	2.44	0.48
1:C:996:LEU:HD13	1:C:1288:PHE:CD1	2.48	0.48
1:C:1008:PHE:HD2	1:C:1079:TRP:CE2	2.31	0.48
1:C:1115:ARG:O	1:C:1116:THR:OG1	2.32	0.48
1:C:1136:GLU:O	1:C:1139:PRO:HD2	2.14	0.48
1:C:1976:VAL:N	1:C:2096:GLN:HE22	2.05	0.48
1:E:1214:ILE:HA	1:E:1217:ASN:OD1	2.14	0.48
1:E:1490:GLY:O	1:E:1494:MET:HG2	2.14	0.48
1:E:2053:LEU:HD22	1:E:2090:PHE:CD1	2.48	0.48
1:E:2177:GLN:OE1	1:E:2177:GLN:N	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2505:LYS:HZ2	1:E:2506:LEU:HD22	1.78	0.48
1:A:814:ALA:C	1:A:1098:PHE:HE1	2.17	0.48
1:A:997:MET:O	1:A:1001:VAL:HG22	2.13	0.48
1:A:998:ALA:O	1:A:1002:ILE:HG23	2.14	0.48
1:A:1115:ARG:NE	1:A:1115:ARG:HA	2.29	0.48
1:A:1214:ILE:HA	1:A:1217:ASN:OD1	2.14	0.48
1:A:2146:THR:H	1:C:2182:LYS:HE3	1.78	0.48
1:A:2148:SER:HB3	1:A:2151:ASN:OD1	2.14	0.48
1:A:2376:ILE:HB	1:A:2448:ILE:HG22	1.96	0.48
1:A:2500:VAL:HA	1:A:2503:ILE:HD13	1.96	0.48
1:C:625:TYR:O	1:C:629:ARG:N	2.37	0.48
1:C:1490:GLY:O	1:C:1494:MET:HG2	2.14	0.48
1:C:1799:GLN:O	1:C:1803:TYR:HD2	1.96	0.48
1:C:2207:LEU:HD21	1:C:2470:TYR:HE1	1.79	0.48
1:E:996:LEU:HA	1:E:999:VAL:HG22	1.95	0.48
1:E:1102:LEU:O	1:E:1106:GLN:HG2	2.14	0.48
1:E:1412:TYR:HH	1:E:2531:PHE:HD1	1.59	0.48
1:E:2376:ILE:HB	1:E:2448:ILE:HG22	1.96	0.48
1:E:2422:LYS:HE2	1:E:2422:LYS:HA	1.96	0.48
1:A:841:PRO:HB3	1:A:1108:TRP:CE2	2.49	0.48
1:A:983:ASN:HA	1:A:986:PHE:CZ	2.48	0.48
1:A:1008:PHE:HD2	1:A:1079:TRP:CE2	2.31	0.48
1:A:1102:LEU:O	1:A:1106:GLN:HG2	2.14	0.48
1:A:1136:GLU:O	1:A:1139:PRO:HD2	2.14	0.48
1:A:1283:ASP:OD2	1:A:1284:SER:N	2.47	0.48
1:A:2510:ILE:CD1	1:A:2522:GLU:HA	2.44	0.48
1:C:1090:ASN:OD1	1:C:1091:SER:N	2.47	0.48
1:C:1147:ARG:O	1:C:1147:ARG:HG3	2.14	0.48
1:C:1283:ASP:OD2	1:C:1284:SER:N	2.47	0.48
1:C:1514:ASP:O	1:C:1518:ARG:HG2	2.14	0.48
1:C:2028:PHE:HD2	1:E:2204:TRP:HZ2	1.62	0.48
1:C:2041:LYS:CB	1:C:2102:PRO:HG2	2.38	0.48
1:C:2510:ILE:CD1	1:C:2522:GLU:HA	2.44	0.48
1:E:983:ASN:OD1	1:E:984:PHE:HD1	1.97	0.48
1:E:1172:ALA:O	1:E:1175:THR:HG22	2.14	0.48
1:E:1711:PRO:HA	1:E:1714:VAL:CG2	2.44	0.48
1:E:2169:ARG:O	1:E:2172:GLU:HG3	2.13	0.48
1:E:2207:LEU:HD21	1:E:2470:TYR:HE1	1.79	0.48
1:A:1138:ASN:HB2	1:A:1139:PRO:HD3	1.95	0.48
1:C:1093:ASN:OD1	1:C:1094:LEU:HD12	2.13	0.48
1:C:1716:LEU:O	1:C:1720:LEU:HG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1942:ARG:HD3	1:C:1946:PHE:HE2	1.79	0.48
1:C:2134:LEU:HD12	1:C:2135:ARG:N	2.29	0.48
1:C:2172:GLU:OE2	1:C:2173:LYS:HG2	2.14	0.48
1:C:2513:VAL:O	1:C:2517:ARG:N	2.46	0.48
1:E:841:PRO:HB3	1:E:1108:TRP:CE2	2.49	0.48
1:E:1044:LEU:O	1:E:1047:GLN:HG3	2.13	0.48
1:E:1115:ARG:HA	1:E:1115:ARG:NE	2.29	0.48
1:E:1118:GLU:OE1	1:E:1118:GLU:N	2.30	0.48
1:E:1194:PHE:HD2	1:E:1198:LEU:HB3	1.77	0.48
1:E:1246:ILE:HD11	1:E:1251:LEU:H	1.77	0.48
1:E:2487:GLU:O	1:E:2490:HIS:HB2	2.14	0.48
1:A:1062:TYR:CZ	1:A:1082:LEU:HD22	2.49	0.48
1:A:1093:ASN:OD1	1:A:1094:LEU:HD12	2.13	0.48
1:A:1147:ARG:HG3	1:A:1147:ARG:O	2.14	0.48
1:A:1156:ALA:O	1:A:1160:TYR:HB2	2.13	0.48
1:A:1176:ARG:HB2	1:A:1282:TRP:CE3	2.49	0.48
1:A:1317:SER:O	1:A:1320:PHE:HB2	2.13	0.48
1:A:2204:TRP:HZ2	1:E:2028:PHE:HD2	1.61	0.48
1:C:981:PHE:O	1:C:985:PHE:CB	2.61	0.48
1:C:983:ASN:HA	1:C:986:PHE:CZ	2.47	0.48
1:C:983:ASN:OD1	1:C:984:PHE:HD1	1.97	0.48
1:C:998:ALA:O	1:C:1002:ILE:HG23	2.14	0.48
1:C:1138:ASN:O	1:C:1141:PRO:HD2	2.14	0.48
1:C:1176:ARG:HB2	1:C:1282:TRP:CE3	2.49	0.48
1:C:1543:GLN:O	1:C:1546:LEU:HG	2.14	0.48
1:C:1711:PRO:HA	1:C:1714:VAL:CG2	2.44	0.48
1:C:2018:GLN:O	1:C:2021:LEU:HG	2.14	0.48
1:C:2422:LYS:HE2	1:C:2422:LYS:HA	1.96	0.48
1:E:814:ALA:C	1:E:1098:PHE:HE1	2.17	0.48
1:E:1176:ARG:HD2	1:E:1177:ILE:H	1.79	0.48
1:E:1335:ARG:HA	1:E:1338:GLU:CD	2.35	0.48
1:E:1337:ILE:HD11	1:E:2104:ARG:HH21	1.79	0.48
1:E:2139:ASP:OD1	1:E:2152:TRP:NE1	2.47	0.48
1:A:1236:GLU:HG2	1:A:1237:GLN:H	1.79	0.47
1:A:1336:GLN:HB3	1:A:1340:LYS:NZ	2.29	0.47
1:A:2061:MET:HA	1:A:2066:PRO:CG	2.40	0.47
1:A:2139:ASP:OD1	1:A:2152:TRP:NE1	2.47	0.47
1:C:841:PRO:HB3	1:C:1108:TRP:CE2	2.49	0.47
1:C:1115:ARG:NE	1:C:1115:ARG:HA	2.29	0.47
1:C:1197:THR:HA	1:C:1200:GLN:OE1	2.14	0.47
1:C:1338:GLU:O	1:C:1341:SER:HB3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1454:ARG:HA	1:C:1457:ARG:NE	2.29	0.47
1:C:2053:LEU:HD22	1:C:2090:PHE:CD1	2.48	0.47
1:C:2071:ARG:HH11	1:C:2076:ASN:CA	2.23	0.47
1:C:2071:ARG:NH1	1:C:2076:ASN:HA	2.26	0.47
1:C:2148:SER:HB3	1:C:2151:ASN:OD1	2.14	0.47
1:C:2158:ILE:O	1:C:2161:ASN:OD1	2.32	0.47
1:E:981:PHE:O	1:E:985:PHE:CB	2.61	0.47
1:E:1283:ASP:OD2	1:E:1284:SER:N	2.47	0.47
1:E:1665:PHE:HA	1:E:1668:GLN:HG3	1.95	0.47
1:E:1716:LEU:O	1:E:1720:LEU:HG	2.14	0.47
1:E:2118:ASN:O	1:E:2121:LEU:HG	2.13	0.47
1:A:1000:ASN:OD1	1:A:1001:VAL:HG13	2.14	0.47
1:A:1025:ARG:HA	1:A:1025:ARG:HE	1.78	0.47
1:A:1332:ASN:OD1	1:A:1333:PHE:N	2.47	0.47
1:A:1338:GLU:O	1:A:1341:SER:HB3	2.13	0.47
1:A:1799:GLN:O	1:A:1803:TYR:HD2	1.96	0.47
1:C:1172:ALA:O	1:C:1175:THR:HG22	2.14	0.47
1:C:1195:GLY:HA2	1:C:1198:LEU:HG	1.95	0.47
1:C:1337:ILE:HD11	1:C:2104:ARG:HH21	1.78	0.47
1:C:2165:ILE:HG23	1:C:2169:ARG:NH1	2.28	0.47
1:C:2487:GLU:O	1:C:2490:HIS:HB2	2.14	0.47
1:E:1228:SER:HB2	1:E:1252:VAL:HG11	1.96	0.47
1:E:2018:GLN:O	1:E:2021:LEU:HG	2.14	0.47
1:E:2158:ILE:O	1:E:2161:ASN:OD1	2.32	0.47
1:A:1031:ARG:O	1:A:1034:PRO:HD2	2.15	0.47
1:A:1108:TRP:O	1:A:1111:PHE:HB2	2.15	0.47
1:E:1147:ARG:HG3	1:E:1147:ARG:O	2.14	0.47
1:E:1962:PHE:O	1:E:1965:ILE:HG12	2.14	0.47
1:E:2054:VAL:O	1:E:2058:HIS:HD2	1.97	0.47
1:A:1228:SER:HB2	1:A:1252:VAL:HG11	1.96	0.47
1:A:1717:TRP:NE1	1:A:1726:SER:HA	2.29	0.47
1:A:2158:ILE:O	1:A:2161:ASN:OD1	2.32	0.47
1:C:1228:SER:HB2	1:C:1252:VAL:HG11	1.96	0.47
1:C:1679:GLY:O	1:C:1683:VAL:HG22	2.15	0.47
1:C:1962:PHE:O	1:C:1965:ILE:HG12	2.14	0.47
1:C:1980:MET:HA	1:C:2089:TYR:HE1	1.80	0.47
1:C:2024:LEU:HA	1:C:2027:GLN:HG3	1.97	0.47
1:E:1296:ILE:O	1:E:1302:PHE:HE1	1.98	0.47
1:E:1336:GLN:HB3	1:E:1340:LYS:NZ	2.29	0.47
1:E:1454:ARG:HA	1:E:1457:ARG:NE	2.29	0.47
1:A:625:TYR:O	1:A:629:ARG:N	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:983:ASN:OD1	1:A:984:PHE:HD1	1.97	0.47
1:A:1044:LEU:O	1:A:1047:GLN:HG3	2.13	0.47
1:A:1194:PHE:HD2	1:A:1198:LEU:HB3	1.77	0.47
1:A:1716:LEU:O	1:A:1720:LEU:HG	2.14	0.47
1:A:1962:PHE:O	1:A:1965:ILE:HG12	2.14	0.47
1:A:2024:LEU:HA	1:A:2027:GLN:HG3	1.96	0.47
1:C:1102:LEU:O	1:C:1106:GLN:HG2	2.14	0.47
1:C:1214:ILE:HA	1:C:1217:ASN:OD1	2.14	0.47
1:C:1236:GLU:HG2	1:C:1237:GLN:H	1.79	0.47
1:C:1992:ILE:HA	1:C:1995:PHE:CE2	2.49	0.47
1:C:2139:ASP:OD1	1:C:2152:TRP:NE1	2.47	0.47
1:C:2500:VAL:HA	1:C:2503:ILE:HD13	1.96	0.47
1:E:998:ALA:O	1:E:1002:ILE:HG23	2.14	0.47
1:E:1156:ALA:O	1:E:1160:TYR:HB2	2.13	0.47
1:E:1165:VAL:HA	1:E:1168:VAL:HG22	1.96	0.47
1:E:1193:LEU:HA	1:E:1797:ARG:NH1	2.23	0.47
1:E:2184:LYS:O	1:E:2188:LYS:NZ	2.40	0.47
1:A:996:LEU:HD13	1:A:1288:PHE:CD1	2.48	0.47
1:A:1090:ASN:OD1	1:A:1091:SER:N	2.47	0.47
1:A:1147:ARG:HH11	1:A:1152:MET:CE	2.26	0.47
1:A:2058:HIS:HA	1:A:2062:PHE:HD2	1.74	0.47
1:A:2134:LEU:HD12	1:A:2135:ARG:N	2.29	0.47
1:A:2496:GLU:HB2	1:E:2534:ARG:CZ	2.43	0.47
1:C:1336:GLN:HB3	1:C:1340:LYS:NZ	2.29	0.47
1:C:1357:GLU:HA	1:C:1360:ARG:CG	2.45	0.47
1:C:1451:THR:HA	1:C:1454:ARG:HE	1.80	0.47
1:E:1514:ASP:O	1:E:1518:ARG:HG2	2.14	0.47
1:E:1543:GLN:O	1:E:1546:LEU:HG	2.14	0.47
1:E:2126:ARG:HH12	1:E:2132:VAL:HG12	1.80	0.47
1:E:2172:GLU:OE2	1:E:2173:LYS:HG2	2.14	0.47
1:E:2510:ILE:CD1	1:E:2522:GLU:HA	2.44	0.47
1:A:996:LEU:HA	1:A:999:VAL:HG22	1.95	0.47
1:A:1118:GLU:HA	1:A:1121:ARG:HH22	1.80	0.47
1:A:1138:ASN:O	1:A:1141:PRO:HD2	2.14	0.47
1:A:1153:LEU:O	1:A:1157:VAL:HG23	2.15	0.47
1:A:1176:ARG:HD2	1:A:1177:ILE:H	1.79	0.47
1:A:1454:ARG:O	1:A:1457:ARG:HD3	2.15	0.47
1:A:1521:ARG:HH12	1:A:1528:ARG:NH1	2.09	0.47
1:A:1679:GLY:O	1:A:1683:VAL:HG22	2.15	0.47
1:A:2422:LYS:HA	1:A:2422:LYS:HE2	1.96	0.47
1:A:2487:GLU:O	1:A:2490:HIS:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2501:ASP:N	1:A:2501:ASP:OD1	2.48	0.47
1:C:660:THR:HB	1:C:663:ARG:HH21	1.79	0.47
1:C:980:TYR:O	1:C:984:PHE:HB2	2.15	0.47
1:C:1296:ILE:O	1:C:1302:PHE:HE1	1.98	0.47
1:C:1302:PHE:O	1:C:1306:SER:N	2.46	0.47
1:C:2285:GLN:HB3	1:C:2443:LEU:HD11	1.96	0.47
1:C:2534:ARG:CZ	1:E:2496:GLU:HB2	2.44	0.47
1:E:660:THR:HB	1:E:663:ARG:HH21	1.80	0.47
1:E:1000:ASN:OD1	1:E:1001:VAL:HG13	2.14	0.47
1:E:1138:ASN:O	1:E:1141:PRO:HD2	2.14	0.47
1:E:1357:GLU:HA	1:E:1360:ARG:CG	2.45	0.47
1:E:1735:VAL:HA	1:E:1738:GLU:OE2	2.12	0.47
1:E:1745:TYR:HA	1:E:1748:GLN:OE1	2.15	0.47
1:E:1982:LEU:HA	1:E:1985:ILE:HG12	1.96	0.47
1:E:2148:SER:HB3	1:E:2151:ASN:OD1	2.14	0.47
1:A:1214:ILE:O	1:A:1218:VAL:HG22	2.15	0.47
1:A:1543:GLN:O	1:A:1546:LEU:HG	2.14	0.47
1:C:814:ALA:C	1:C:1098:PHE:HE1	2.17	0.47
1:C:2039:LEU:HD13	1:C:2142:TRP:HB3	1.97	0.47
1:E:1090:ASN:OD1	1:E:1091:SER:N	2.47	0.47
1:E:1454:ARG:O	1:E:1457:ARG:HD3	2.15	0.47
1:E:2169:ARG:NH2	1:E:2497:LEU:O	2.48	0.47
1:A:981:PHE:O	1:A:985:PHE:CB	2.61	0.47
1:A:1451:THR:HA	1:A:1454:ARG:HE	1.80	0.47
1:A:1454:ARG:HA	1:A:1457:ARG:NE	2.29	0.47
1:A:1467:GLN:HG2	1:A:1468:LEU:HG	1.97	0.47
1:A:1514:ASP:O	1:A:1518:ARG:HG2	2.14	0.47
1:A:1726:SER:CB	1:A:1729:PHE:HB3	2.23	0.47
1:A:1942:ARG:HD3	1:A:1946:PHE:HE2	1.79	0.47
1:A:2207:LEU:HD21	1:A:2470:TYR:HE1	1.79	0.47
1:C:1018:VAL:HA	1:C:1021:LEU:HG	1.95	0.47
1:C:1098:PHE:O	1:C:1101:LEU:HG	2.15	0.47
1:C:1224:LYS:HB2	1:C:1224:LYS:HZ2	1.77	0.47
1:C:1335:ARG:HA	1:C:1338:GLU:CD	2.35	0.47
1:C:1453:LEU:HD23	1:C:1453:LEU:HA	1.74	0.47
1:C:1717:TRP:NE1	1:C:1726:SER:HA	2.29	0.47
1:C:2039:LEU:HD22	1:C:2142:TRP:CB	2.45	0.47
1:C:2114:TYR:N	1:C:2118:ASN:HD22	2.13	0.47
1:C:2376:ILE:HB	1:C:2448:ILE:HG22	1.96	0.47
1:E:1062:TYR:CZ	1:E:1082:LEU:HD22	2.49	0.47
1:E:1108:TRP:O	1:E:1111:PHE:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1679:GLY:O	1:E:1683:VAL:HG22	2.15	0.47
1:E:1790:LEU:CG	1:E:1794:PHE:CE2	2.83	0.47
1:E:2114:TYR:N	1:E:2118:ASN:HD22	2.13	0.47
1:E:2285:GLN:HB3	1:E:2443:LEU:HD11	1.96	0.47
1:A:980:TYR:O	1:A:984:PHE:HB2	2.15	0.47
1:A:1321:ALA:O	1:A:1324:ASN:OD1	2.33	0.47
1:A:1335:ARG:HA	1:A:1338:GLU:CD	2.35	0.47
1:A:1337:ILE:HD11	1:A:2104:ARG:HH21	1.78	0.47
1:A:2082:TRP:CE2	1:A:2086:LYS:HD3	2.50	0.47
1:A:2149:LEU:O	1:A:2153:MET:HG3	2.15	0.47
1:C:1176:ARG:HD2	1:C:1177:ILE:H	1.79	0.47
1:E:2232:LEU:HD12	1:E:2317:LEU:HD12	1.97	0.47
1:E:2337:ASN:OD1	1:E:2337:ASN:N	2.47	0.47
1:A:1018:VAL:HA	1:A:1021:LEU:HG	1.95	0.46
1:A:1505:LEU:O	1:A:1508:LEU:HG	2.15	0.46
1:A:2039:LEU:HD22	1:A:2142:TRP:CB	2.45	0.46
1:A:2039:LEU:HD13	1:A:2142:TRP:HB3	1.97	0.46
1:C:1726:SER:CB	1:C:1729:PHE:HB3	2.23	0.46
1:C:1745:TYR:HA	1:C:1748:GLN:OE1	2.15	0.46
1:C:2054:VAL:O	1:C:2058:HIS:CD2	2.68	0.46
1:C:2082:TRP:CE2	1:C:2086:LYS:HD3	2.50	0.46
1:E:838:PHE:O	1:E:841:PRO:HD2	2.15	0.46
1:E:1018:VAL:HA	1:E:1021:LEU:HG	1.96	0.46
1:E:1297:PHE:HA	1:E:1302:PHE:CE1	2.50	0.46
1:E:1505:LEU:O	1:E:1508:LEU:HG	2.15	0.46
1:E:2024:LEU:HA	1:E:2027:GLN:HG3	1.97	0.46
1:E:2054:VAL:O	1:E:2058:HIS:CD2	2.68	0.46
1:E:2165:ILE:O	1:E:2168:SER:OG	2.29	0.46
1:A:1112:SER:O	1:A:1116:THR:OG1	2.31	0.46
1:A:1355:LYS:HA	1:A:1358:LYS:HZ3	1.79	0.46
1:A:2054:VAL:O	1:A:2058:HIS:CD2	2.68	0.46
1:C:1214:ILE:O	1:C:1218:VAL:HG22	2.15	0.46
1:C:1446:VAL:HG11	1:C:2178:PRO:HD2	1.97	0.46
1:C:1505:LEU:O	1:C:1508:LEU:HG	2.15	0.46
1:C:1689:LEU:HA	1:C:1692:TYR:CE2	2.50	0.46
1:C:2481:VAL:HG22	1:C:2485:PHE:HZ	1.80	0.46
1:E:1009:MET:N	1:E:1009:MET:SD	2.88	0.46
1:E:1537:GLU:HA	1:E:1540:LEU:HD12	1.97	0.46
1:E:1980:MET:HA	1:E:2089:TYR:HE1	1.80	0.46
1:E:2209:PHE:O	1:E:2214:ARG:N	2.34	0.46
1:E:2360:GLY:HA2	1:E:2407:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1001:VAL:O	1:A:1004:GLN:HG3	2.16	0.46
1:A:1982:LEU:HA	1:A:1985:ILE:HG12	1.96	0.46
1:A:2404:GLN:CD	1:A:2406:ARG:HH12	2.19	0.46
1:C:1000:ASN:OD1	1:C:1001:VAL:HG13	2.14	0.46
1:C:1153:LEU:O	1:C:1157:VAL:HG23	2.15	0.46
1:C:1454:ARG:O	1:C:1457:ARG:HD3	2.15	0.46
1:C:1550:GLU:N	1:C:1550:GLU:OE1	2.49	0.46
1:E:1027:GLU:OE1	1:E:1027:GLU:N	2.29	0.46
1:E:1098:PHE:O	1:E:1101:LEU:HG	2.15	0.46
1:E:1236:GLU:HG2	1:E:1237:GLN:H	1.79	0.46
1:E:1717:TRP:NE1	1:E:1726:SER:HA	2.29	0.46
1:E:1794:PHE:HD1	1:E:1797:ARG:NE	2.12	0.46
1:E:1942:ARG:HD3	1:E:1946:PHE:HE2	1.79	0.46
1:E:2101:TYR:HB3	1:E:2104:ARG:HD2	1.98	0.46
1:A:1065:ARG:HA	1:A:1072:MET:HE3	1.96	0.46
1:A:1464:ARG:HE	1:A:1467:GLN:NE2	2.14	0.46
1:A:1788:VAL:O	1:A:1791:MET:HG3	2.15	0.46
1:C:1001:VAL:O	1:C:1004:GLN:HG3	2.16	0.46
1:C:1062:TYR:CZ	1:C:1082:LEU:HD22	2.50	0.46
1:C:1098:PHE:CD2	1:C:1102:LEU:HD23	2.51	0.46
1:C:1155:VAL:HA	1:C:1158:PHE:HD2	1.81	0.46
1:E:977:CYS:O	1:E:981:PHE:HB2	2.16	0.46
1:E:1182:LEU:O	1:E:1185:LEU:HG	2.16	0.46
1:E:1451:THR:HA	1:E:1454:ARG:HE	1.80	0.46
1:E:1689:LEU:HA	1:E:1692:TYR:CE2	2.50	0.46
1:E:2404:GLN:CD	1:E:2406:ARG:HH12	2.19	0.46
1:A:982:ILE:HG13	1:A:983:ASN:H	1.81	0.46
1:A:996:LEU:HD13	1:A:1288:PHE:HD1	1.81	0.46
1:A:1066:TRP:CG	1:A:1068:LYS:HD2	2.51	0.46
1:A:1458:GLU:HA	1:A:1461:ARG:NE	2.30	0.46
1:A:1521:ARG:HB3	1:A:1525:LYS:HZ3	1.80	0.46
1:A:2028:PHE:HD2	1:C:2204:TRP:HZ2	1.62	0.46
1:A:2081:LEU:O	1:A:2085:VAL:HG13	2.16	0.46
1:A:2360:GLY:HA2	1:A:2407:ARG:NH1	2.30	0.46
1:C:1009:MET:SD	1:C:1009:MET:N	2.88	0.46
1:C:1118:GLU:HA	1:C:1121:ARG:HH22	1.80	0.46
1:C:1687:SER:OG	1:C:1796:HIS:CE1	2.69	0.46
1:C:1800:LEU:HD12	1:C:1801:LEU:HD23	1.98	0.46
1:C:2126:ARG:HH12	1:C:2132:VAL:HG12	1.80	0.46
1:E:1098:PHE:CD2	1:E:1102:LEU:HD23	2.51	0.46
1:E:1210:TRP:HA	1:E:1213:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1521:ARG:HB3	1:E:1525:LYS:HZ3	1.80	0.46
1:E:1550:GLU:OE1	1:E:1550:GLU:N	2.49	0.46
1:E:2438:LYS:HE2	1:E:2438:LYS:HB3	1.77	0.46
1:E:2500:VAL:HA	1:E:2503:ILE:HD13	1.96	0.46
1:A:1464:ARG:HE	1:A:1467:GLN:HE22	1.64	0.46
1:A:1738:GLU:O	1:A:1742:VAL:HG23	2.16	0.46
1:A:1738:GLU:O	1:A:1741:VAL:HG12	2.16	0.46
1:A:1745:TYR:HA	1:A:1748:GLN:OE1	2.15	0.46
1:A:1980:MET:HA	1:A:2089:TYR:HE1	1.80	0.46
1:C:996:LEU:HA	1:C:999:VAL:HG22	1.95	0.46
1:C:1031:ARG:O	1:C:1034:PRO:HD2	2.15	0.46
1:C:1355:LYS:O	1:C:1359:TYR:CD2	2.68	0.46
1:C:1455:GLN:O	1:C:1458:GLU:HG3	2.16	0.46
1:C:2337:ASN:N	1:C:2337:ASN:OD1	2.47	0.46
1:E:1029:ILE:HG22	1:E:1033:TRP:HE1	1.77	0.46
1:E:1328:LEU:HA	1:E:1331:ILE:HG22	1.98	0.46
1:E:1355:LYS:O	1:E:1359:TYR:CD2	2.68	0.46
1:E:2039:LEU:HD22	1:E:2142:TRP:CB	2.45	0.46
1:A:1328:LEU:HA	1:A:1331:ILE:HG22	1.98	0.46
1:A:1726:SER:O	1:A:1730:TRP:CZ3	2.69	0.46
1:A:1800:LEU:HD12	1:A:1801:LEU:HD23	1.98	0.46
1:C:1066:TRP:CG	1:C:1068:LYS:HD2	2.51	0.46
1:C:1738:GLU:O	1:C:1741:VAL:HG12	2.16	0.46
1:C:1794:PHE:HD1	1:C:1797:ARG:NE	2.12	0.46
1:C:2360:GLY:HA2	1:C:2407:ARG:NH1	2.30	0.46
1:E:1005:ARG:HE	1:E:1010:VAL:HG12	1.71	0.46
1:E:1325:ALA:O	1:E:1329:LYS:N	2.33	0.46
1:E:1788:VAL:O	1:E:1791:MET:HG3	2.15	0.46
1:E:2149:LEU:O	1:E:2153:MET:HG3	2.15	0.46
1:A:1098:PHE:O	1:A:1101:LEU:HG	2.15	0.46
1:A:1111:PHE:HA	1:A:1114:GLU:OE2	2.16	0.46
1:A:1183:GLY:O	1:A:1186:LEU:HG	2.16	0.46
1:A:1210:TRP:HA	1:A:1213:LEU:HD12	1.98	0.46
1:A:1296:ILE:O	1:A:1302:PHE:HE1	1.98	0.46
1:A:2126:ARG:HH12	1:A:2132:VAL:HG12	1.80	0.46
1:A:2177:GLN:OE1	1:A:2177:GLN:N	2.43	0.46
1:C:977:CYS:O	1:C:981:PHE:HB2	2.16	0.46
1:C:1170:PHE:HB2	1:C:1188:CYS:SG	2.56	0.46
1:C:1537:GLU:HA	1:C:1540:LEU:HD12	1.97	0.46
1:C:2469:LEU:O	1:C:2473:ILE:HG12	2.16	0.46
1:C:2501:ASP:OD1	1:C:2501:ASP:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1002:ILE:O	1:E:1005:ARG:HD2	2.16	0.46
1:E:1031:ARG:O	1:E:1034:PRO:HD2	2.15	0.46
1:E:1464:ARG:HE	1:E:1467:GLN:NE2	2.14	0.46
1:E:2407:ARG:NE	1:E:2426:PHE:CE2	2.84	0.46
1:A:966:THR:O	1:A:969:ARG:HB3	2.16	0.46
1:A:1455:GLN:O	1:A:1458:GLU:HG3	2.16	0.46
1:A:1553:ARG:HA	1:A:1556:LEU:HD12	1.98	0.46
1:A:1744:LYS:NZ	1:A:1783:ILE:HB	2.31	0.46
1:A:2046:LYS:HD3	1:A:2097:ILE:CG2	2.43	0.46
1:C:996:LEU:HD13	1:C:1288:PHE:HD1	1.81	0.46
1:C:1108:TRP:O	1:C:1111:PHE:HB2	2.15	0.46
1:C:1744:LYS:NZ	1:C:1782:TYR:O	2.35	0.46
1:C:1993:PHE:HA	1:C:1996:TRP:CH2	2.51	0.46
1:C:2024:LEU:CA	1:C:2027:GLN:HE21	2.29	0.46
1:C:2472:SER:O	1:C:2476:VAL:HG23	2.16	0.46
1:E:980:TYR:O	1:E:984:PHE:HB2	2.15	0.46
1:E:1993:PHE:HA	1:E:1996:TRP:CH2	2.51	0.46
1:A:992:GLU:HA	1:A:995:PHE:CD2	2.51	0.46
1:A:1002:ILE:O	1:A:1005:ARG:HD2	2.16	0.46
1:A:1155:VAL:HA	1:A:1158:PHE:HD2	1.81	0.46
1:A:1170:PHE:HB2	1:A:1188:CYS:SG	2.56	0.46
1:A:1282:TRP:O	1:A:1285:ILE:HG22	2.16	0.46
1:A:1325:ALA:O	1:A:1329:LYS:N	2.33	0.46
1:A:2101:TYR:HB3	1:A:2104:ARG:HD2	1.98	0.46
1:A:2114:TYR:N	1:A:2118:ASN:HD22	2.13	0.46
1:A:2160:ALA:O	1:A:2164:ILE:HG13	2.16	0.46
1:C:982:ILE:HG13	1:C:983:ASN:H	1.81	0.46
1:C:1321:ALA:O	1:C:1324:ASN:OD1	2.33	0.46
1:C:1505:LEU:HD13	1:C:1508:LEU:HD21	1.98	0.46
1:C:2046:LYS:HD3	1:C:2097:ILE:CG2	2.43	0.46
1:C:2048:ALA:O	1:C:2052:VAL:HG22	2.16	0.46
1:E:1066:TRP:CG	1:E:1068:LYS:HD2	2.51	0.46
1:E:1115:ARG:O	1:E:1116:THR:OG1	2.32	0.46
1:E:1310:LYS:HZ2	1:E:1541:LEU:HB3	1.79	0.46
1:E:2181:GLN:N	1:E:2181:GLN:OE1	2.49	0.46
1:A:1157:VAL:HG13	1:A:1161:LEU:HG	1.97	0.45
1:A:1182:LEU:O	1:A:1185:LEU:HG	2.16	0.45
1:A:1355:LYS:HA	1:A:1358:LYS:NZ	2.31	0.45
1:A:1355:LYS:O	1:A:1359:TYR:CD2	2.68	0.45
1:A:1416:GLU:HG3	1:A:2541:LYS:HE2	1.98	0.45
1:A:1550:GLU:OE1	1:A:1550:GLU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1687:SER:OG	1:A:1796:HIS:CE1	2.69	0.45
1:A:1700:MET:CG	1:A:2080:GLN:CB	2.88	0.45
1:C:1416:GLU:HG3	1:C:2541:LYS:HE2	1.98	0.45
1:C:1467:GLN:HG2	1:C:1468:LEU:HG	1.97	0.45
1:C:1738:GLU:O	1:C:1742:VAL:HG23	2.16	0.45
1:C:1744:LYS:NZ	1:C:1783:ILE:HB	2.31	0.45
1:C:1976:VAL:H	1:C:2096:GLN:NE2	2.07	0.45
1:E:1214:ILE:O	1:E:1218:VAL:HG22	2.15	0.45
1:E:1464:ARG:HE	1:E:1467:GLN:HE22	1.64	0.45
1:E:1553:ARG:HA	1:E:1556:LEU:HD12	1.98	0.45
1:E:1744:LYS:O	1:E:1747:PHE:HB3	2.16	0.45
1:A:838:PHE:O	1:A:841:PRO:HD2	2.15	0.45
1:A:2169:ARG:NH2	1:A:2497:LEU:O	2.48	0.45
1:A:2225:ASP:OD2	1:A:2226:VAL:N	2.50	0.45
1:A:2232:LEU:HD12	1:A:2317:LEU:HD12	1.97	0.45
1:A:2472:SER:O	1:A:2476:VAL:HG23	2.16	0.45
1:A:2481:VAL:HG22	1:A:2485:PHE:HZ	1.81	0.45
1:C:1183:GLY:O	1:C:1186:LEU:HG	2.16	0.45
1:C:1408:HIS:HA	1:C:2534:ARG:HH12	1.81	0.45
1:C:1553:ARG:HA	1:C:1556:LEU:HD12	1.98	0.45
1:C:1744:LYS:O	1:C:1747:PHE:HB3	2.17	0.45
1:C:1788:VAL:O	1:C:1791:MET:HG3	2.15	0.45
1:C:2149:LEU:O	1:C:2153:MET:HG3	2.15	0.45
1:E:1467:GLN:HG2	1:E:1468:LEU:HG	1.97	0.45
1:E:1726:SER:O	1:E:1730:TRP:CZ3	2.69	0.45
1:E:1744:LYS:NZ	1:E:1783:ILE:HB	2.31	0.45
1:E:2046:LYS:HD3	1:E:2097:ILE:CG2	2.43	0.45
1:E:2082:TRP:CE2	1:E:2086:LYS:HD3	2.50	0.45
1:E:2481:VAL:HG22	1:E:2485:PHE:HZ	1.80	0.45
1:A:1513:VAL:O	1:A:1516:LEU:HG	2.17	0.45
1:A:1678:ALA:HA	1:A:1681:GLN:NE2	2.32	0.45
1:A:2165:ILE:O	1:A:2168:SER:OG	2.29	0.45
1:A:2434:LEU:HA	1:A:2434:LEU:HD12	1.64	0.45
1:C:1112:SER:O	1:C:1116:THR:OG1	2.31	0.45
1:C:1222:ILE:O	1:C:1226:MET:HG2	2.17	0.45
1:C:1464:ARG:HE	1:C:1467:GLN:NE2	2.14	0.45
1:C:2225:ASP:OD2	1:C:2226:VAL:N	2.50	0.45
1:E:1005:ARG:NH1	1:E:1011:ILE:HG13	2.19	0.45
1:E:1111:PHE:HA	1:E:1114:GLU:OE2	2.16	0.45
1:E:1153:LEU:O	1:E:1157:VAL:HG23	2.15	0.45
1:E:1976:VAL:H	1:E:2096:GLN:NE2	2.07	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2024:LEU:CA	1:E:2027:GLN:HE21	2.29	0.45
1:E:2151:ASN:HB3	1:E:2526:TYR:CZ	2.52	0.45
1:A:660:THR:HB	1:A:663:ARG:HH21	1.80	0.45
1:A:1537:GLU:HA	1:A:1540:LEU:HD12	1.97	0.45
1:A:1982:LEU:O	1:A:1986:VAL:HG23	2.17	0.45
1:A:2024:LEU:CA	1:A:2027:GLN:HE21	2.29	0.45
1:A:2337:ASN:N	1:A:2337:ASN:OD1	2.47	0.45
1:A:2469:LEU:O	1:A:2473:ILE:HG12	2.16	0.45
1:C:966:THR:O	1:C:969:ARG:HB3	2.16	0.45
1:C:992:GLU:HA	1:C:995:PHE:CD2	2.51	0.45
1:C:1002:ILE:O	1:C:1005:ARG:HD2	2.16	0.45
1:C:1054:MET:HG2	1:C:1083:PRO:HG2	1.99	0.45
1:C:1111:PHE:HA	1:C:1114:GLU:OE2	2.16	0.45
1:C:1297:PHE:HA	1:C:1302:PHE:CE1	2.50	0.45
1:C:2081:LEU:O	1:C:2085:VAL:HG13	2.16	0.45
1:C:2169:ARG:NH2	1:C:2497:LEU:O	2.48	0.45
1:C:2181:GLN:OE1	1:C:2181:GLN:N	2.49	0.45
1:C:2232:LEU:HD12	1:C:2317:LEU:HD12	1.97	0.45
1:E:1001:VAL:O	1:E:1004:GLN:HG3	2.16	0.45
1:E:1065:ARG:HA	1:E:1072:MET:HE3	1.99	0.45
1:E:1157:VAL:HG13	1:E:1161:LEU:HG	1.97	0.45
1:A:1297:PHE:HA	1:A:1302:PHE:CE1	2.50	0.45
1:A:1408:HIS:HA	1:A:2534:ARG:HH12	1.82	0.45
1:A:1689:LEU:HA	1:A:1692:TYR:CE2	2.50	0.45
1:A:1744:LYS:O	1:A:1747:PHE:HB3	2.17	0.45
1:C:1328:LEU:HA	1:C:1331:ILE:HG22	1.98	0.45
1:C:1790:LEU:O	1:C:1794:PHE:CD2	2.70	0.45
1:C:1982:LEU:HA	1:C:1985:ILE:HG12	1.96	0.45
1:C:2160:ALA:O	1:C:2164:ILE:HG13	2.16	0.45
1:C:2434:LEU:HD12	1:C:2434:LEU:HA	1.64	0.45
1:E:1282:TRP:O	1:E:1285:ILE:HG22	2.16	0.45
1:E:1455:GLN:O	1:E:1458:GLU:HG3	2.16	0.45
1:E:1687:SER:OG	1:E:1796:HIS:CE1	2.69	0.45
1:E:2081:LEU:O	1:E:2085:VAL:HG13	2.16	0.45
1:E:2387:VAL:HG12	1:E:2390:LEU:H	1.82	0.45
1:E:2472:SER:O	1:E:2476:VAL:HG23	2.16	0.45
1:A:977:CYS:O	1:A:981:PHE:HB2	2.16	0.45
1:A:1310:LYS:HE3	1:A:1541:LEU:HB3	1.99	0.45
1:A:1408:HIS:ND1	1:C:2496:GLU:O	2.49	0.45
1:A:1446:VAL:HG11	1:A:2178:PRO:HD2	1.97	0.45
1:A:2244:GLN:OE1	1:A:2244:GLN:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:838:PHE:O	1:C:841:PRO:HD2	2.15	0.45
1:C:1005:ARG:NH1	1:C:1011:ILE:HG13	2.19	0.45
1:C:1210:TRP:HA	1:C:1213:LEU:HD12	1.98	0.45
1:C:1224:LYS:HZ1	1:C:1280:ILE:CG2	2.07	0.45
1:C:1726:SER:O	1:C:1730:TRP:CZ3	2.69	0.45
1:E:996:LEU:HD13	1:E:1288:PHE:HD1	1.81	0.45
1:E:1118:GLU:HA	1:E:1121:ARG:HH22	1.80	0.45
1:E:1183:GLY:O	1:E:1186:LEU:HG	2.16	0.45
1:E:1355:LYS:HA	1:E:1358:LYS:NZ	2.31	0.45
1:E:1714:VAL:HA	1:E:1729:PHE:HE2	1.82	0.45
1:E:2039:LEU:HD13	1:E:2142:TRP:HB3	1.97	0.45
1:E:2048:ALA:O	1:E:2052:VAL:HG22	2.16	0.45
1:E:2225:ASP:OD2	1:E:2226:VAL:N	2.50	0.45
1:A:1457:ARG:O	1:A:1461:ARG:HG3	2.17	0.45
1:A:2048:ALA:O	1:A:2052:VAL:HG22	2.16	0.45
1:A:2496:GLU:O	1:E:1408:HIS:ND1	2.50	0.45
1:C:2165:ILE:O	1:C:2168:SER:OG	2.29	0.45
1:C:2387:VAL:HG12	1:C:2390:LEU:H	1.82	0.45
1:E:982:ILE:HG13	1:E:983:ASN:H	1.81	0.45
1:E:1054:MET:HG2	1:E:1083:PRO:HG2	1.99	0.45
1:E:1505:LEU:HD13	1:E:1508:LEU:HD21	1.98	0.45
1:E:1678:ALA:HA	1:E:1681:GLN:NE2	2.32	0.45
1:E:1783:ILE:HD11	1:E:1786:ASP:CB	2.46	0.45
1:E:1790:LEU:O	1:E:1794:PHE:HD2	2.00	0.45
1:E:2102:PRO:O	1:E:2105:ILE:HG13	2.17	0.45
1:E:2469:LEU:O	1:E:2473:ILE:HG12	2.16	0.45
1:A:1098:PHE:CD2	1:A:1102:LEU:HD23	2.51	0.45
1:A:1505:LEU:HD13	1:A:1508:LEU:HD21	1.98	0.45
1:A:1790:LEU:O	1:A:1794:PHE:CD2	2.70	0.45
1:C:1157:VAL:HG13	1:C:1161:LEU:HG	1.97	0.45
1:C:1282:TRP:O	1:C:1285:ILE:HG22	2.16	0.45
1:C:1347:ARG:HA	1:C:1350:LYS:HD2	1.99	0.45
1:C:2101:TYR:HB3	1:C:2104:ARG:HD2	1.98	0.45
1:C:2102:PRO:O	1:C:2105:ILE:HG13	2.17	0.45
1:E:966:THR:O	1:E:969:ARG:HB3	2.16	0.45
1:E:992:GLU:HA	1:E:995:PHE:CD2	2.51	0.45
1:E:1008:PHE:CD2	1:E:1079:TRP:NE1	2.85	0.45
1:E:1321:ALA:O	1:E:1324:ASN:OD1	2.33	0.45
1:E:1458:GLU:HA	1:E:1461:ARG:NE	2.30	0.45
1:E:2166:LYS:HE2	1:E:2500:VAL:CG1	2.46	0.45
1:A:1222:ILE:O	1:A:1226:MET:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1406:VAL:HG12	1:A:2527:ALA:HB3	1.99	0.45
1:A:1517:THR:HG22	1:A:1518:ARG:NH1	2.32	0.45
1:A:2181:GLN:OE1	1:A:2181:GLN:N	2.49	0.45
1:C:1513:VAL:O	1:C:1516:LEU:HG	2.17	0.45
1:C:1678:ALA:HA	1:C:1681:GLN:NE2	2.32	0.45
1:E:1310:LYS:HE3	1:E:1541:LEU:HB3	1.99	0.45
1:E:1416:GLU:HG3	1:E:2541:LYS:HE2	1.98	0.45
1:E:1529:THR:O	1:E:1533:VAL:HG22	2.17	0.45
1:E:2405:LEU:HD12	1:E:2430:TRP:CZ2	2.52	0.45
1:A:1008:PHE:CD2	1:A:1079:TRP:NE1	2.85	0.45
1:A:2405:LEU:HD12	1:A:2430:TRP:CZ2	2.52	0.45
1:C:1182:LEU:O	1:C:1185:LEU:HG	2.16	0.45
1:C:1464:ARG:HE	1:C:1467:GLN:HE22	1.64	0.45
1:C:1999:GLY:HA2	1:C:2015:GLN:OE1	2.17	0.45
1:E:1170:PHE:HB2	1:E:1188:CYS:SG	2.56	0.45
1:E:1800:LEU:HD12	1:E:1801:LEU:HD23	1.98	0.45
1:E:1957:PRO:HA	1:E:1960:ARG:CD	2.45	0.45
1:E:2071:ARG:NH1	1:E:2076:ASN:HA	2.26	0.45
1:A:1188:CYS:O	1:A:1191:LEU:HG	2.17	0.44
1:A:2387:VAL:HG12	1:A:2390:LEU:H	1.82	0.44
1:C:1107:GLN:HG3	1:C:1111:PHE:CE1	2.53	0.44
1:C:1310:LYS:HE3	1:C:1541:LEU:HB3	1.99	0.44
1:C:1552:ARG:O	1:C:1555:VAL:HG12	2.17	0.44
1:C:2244:GLN:OE1	1:C:2244:GLN:N	2.49	0.44
1:C:2407:ARG:NE	1:C:2426:PHE:CE2	2.84	0.44
1:E:625:TYR:O	1:E:629:ARG:N	2.37	0.44
1:E:1155:VAL:HA	1:E:1158:PHE:HD2	1.81	0.44
1:E:1222:ILE:O	1:E:1226:MET:HG2	2.17	0.44
1:E:1302:PHE:O	1:E:1306:SER:N	2.46	0.44
1:E:1513:VAL:O	1:E:1516:LEU:HG	2.17	0.44
1:E:1738:GLU:O	1:E:1741:VAL:HG12	2.16	0.44
1:E:2160:ALA:O	1:E:2164:ILE:HG13	2.17	0.44
1:E:2244:GLN:OE1	1:E:2244:GLN:N	2.49	0.44
1:E:2501:ASP:OD1	1:E:2501:ASP:N	2.48	0.44
1:A:1347:ARG:HA	1:A:1350:LYS:HD2	1.99	0.44
1:A:1656:ILE:H	1:A:1659:LEU:HD21	1.82	0.44
1:A:1993:PHE:HA	1:A:1996:TRP:CH2	2.51	0.44
1:A:2115:ASN:OD1	1:A:2116:HIS:ND1	2.45	0.44
1:A:2309:TYR:CE2	1:A:2355:ALA:HB1	2.53	0.44
1:C:1355:LYS:HA	1:C:1358:LYS:NZ	2.31	0.44
1:C:2153:MET:HE1	1:E:2488:ILE:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2210:MET:HA	1:C:2214:ARG:HB3	1.99	0.44
1:E:1017:LEU:HA	1:E:1020:ILE:HD12	1.99	0.44
1:E:1446:VAL:HG11	1:E:2178:PRO:HD2	1.97	0.44
1:E:1457:ARG:O	1:E:1461:ARG:HG3	2.17	0.44
1:E:1738:GLU:O	1:E:1742:VAL:HG23	2.16	0.44
1:E:1999:GLY:HA2	1:E:2015:GLN:OE1	2.17	0.44
1:A:998:ALA:O	1:A:1002:ILE:HG12	2.17	0.44
1:A:1107:GLN:HG3	1:A:1111:PHE:CE1	2.53	0.44
1:A:1529:THR:OG1	1:A:1530:MET:SD	2.71	0.44
1:A:1552:ARG:O	1:A:1555:VAL:HG12	2.17	0.44
1:A:1711:PRO:HA	1:A:1714:VAL:CG2	2.44	0.44
1:A:2102:PRO:O	1:A:2105:ILE:HG13	2.17	0.44
1:A:2151:ASN:HB3	1:A:2526:TYR:CZ	2.52	0.44
1:A:2425:ASP:HB3	1:A:2426:PHE:CD1	2.52	0.44
1:A:2490:HIS:CD2	1:E:2494:PHE:CE2	3.06	0.44
1:C:998:ALA:O	1:C:1002:ILE:HG12	2.17	0.44
1:C:1408:HIS:ND1	1:E:2496:GLU:O	2.50	0.44
1:C:1790:LEU:O	1:C:1794:PHE:HD2	2.00	0.44
1:E:1188:CYS:O	1:E:1191:LEU:HG	2.17	0.44
1:E:1790:LEU:O	1:E:1794:PHE:CD2	2.70	0.44
1:E:2198:PHE:CE2	2:E:2601:PLX:H192	2.53	0.44
1:A:1413:PHE:CD2	1:A:1414:LEU:HG	2.53	0.44
1:A:1714:VAL:HA	1:A:1729:PHE:HE2	1.82	0.44
1:A:1783:ILE:HD11	1:A:1786:ASP:CB	2.46	0.44
1:A:2122:PHE:HE1	1:A:2163:PHE:CE2	2.36	0.44
1:C:1413:PHE:CD2	1:C:1414:LEU:HG	2.53	0.44
1:C:2114:TYR:H	1:C:2118:ASN:HD22	1.65	0.44
1:C:2151:ASN:O	1:C:2155:VAL:HG23	2.18	0.44
1:C:2404:GLN:CD	1:C:2406:ARG:HH12	2.19	0.44
1:E:1117:GLU:OE2	1:E:1121:ARG:NH2	2.51	0.44
1:E:1740:MET:SD	1:E:1741:VAL:N	2.91	0.44
1:E:2133:GLU:OE1	1:E:2133:GLU:N	2.37	0.44
1:A:2114:TYR:H	1:A:2118:ASN:HD22	1.65	0.44
1:A:2151:ASN:O	1:A:2155:VAL:HG23	2.18	0.44
1:A:2494:PHE:CE2	1:C:2490:HIS:CD2	3.05	0.44
1:C:1457:ARG:O	1:C:1461:ARG:HG3	2.17	0.44
1:C:1521:ARG:HB3	1:C:1525:LYS:HZ3	1.82	0.44
1:E:1697:LEU:HD12	1:E:1698:ASN:N	2.33	0.44
1:E:2482:ARG:HA	1:E:2485:PHE:CE1	2.53	0.44
1:A:691:LEU:O	1:A:695:PHE:N	2.35	0.44
1:A:1284:SER:O	1:A:1287:PHE:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1790:LEU:O	1:A:1794:PHE:HD2	2.00	0.44
1:C:1284:SER:O	1:C:1287:PHE:HB2	2.18	0.44
1:C:1982:LEU:O	1:C:1986:VAL:HG23	2.17	0.44
1:C:2151:ASN:HB3	1:C:2526:TYR:CE1	2.53	0.44
1:C:2151:ASN:HB3	1:C:2526:TYR:CZ	2.52	0.44
1:C:2482:ARG:HA	1:C:2485:PHE:CE1	2.53	0.44
1:E:1118:GLU:HG2	1:E:1119:TRP:CD1	2.53	0.44
1:E:1147:ARG:HH11	1:E:1152:MET:CE	2.26	0.44
1:E:1408:HIS:HA	1:E:2534:ARG:HH12	1.81	0.44
1:E:1517:THR:HG22	1:E:1518:ARG:NH1	2.32	0.44
1:E:2122:PHE:HE1	1:E:2163:PHE:CE2	2.36	0.44
1:E:2151:ASN:HB3	1:E:2526:TYR:CE1	2.53	0.44
1:A:1740:MET:SD	1:A:1741:VAL:N	2.91	0.44
1:C:1982:LEU:O	1:C:1985:ILE:HG12	2.18	0.44
1:E:2309:TYR:CE2	1:E:2355:ALA:HB1	2.53	0.44
1:A:1091:SER:HB2	1:A:1094:LEU:CD1	2.48	0.44
1:A:1332:ASN:HA	1:A:1335:ARG:CZ	2.48	0.44
1:A:1357:GLU:HA	1:A:1360:ARG:CG	2.45	0.44
1:A:1794:PHE:HD1	1:A:1797:ARG:NE	2.12	0.44
1:A:2071:ARG:NH1	1:A:2076:ASN:HA	2.26	0.44
1:A:2498:PRO:HD2	1:A:2543:THR:HB	1.99	0.44
1:C:1118:GLU:HG2	1:C:1119:TRP:CD1	2.53	0.44
1:C:1355:LYS:O	1:C:1359:TYR:HD2	2.01	0.44
1:C:1517:THR:HG22	1:C:1518:ARG:NH1	2.32	0.44
1:C:1656:ILE:H	1:C:1659:LEU:HD21	1.82	0.44
1:C:2513:VAL:HG21	1:C:2521:LEU:HB2	2.00	0.44
1:E:998:ALA:O	1:E:1002:ILE:HG12	2.17	0.44
1:E:1006:MET:HB3	1:E:1229:LEU:HD11	2.00	0.44
1:E:1049:LEU:HA	1:E:1052:LEU:HD12	2.00	0.44
1:E:1800:LEU:O	1:E:1804:GLY:N	2.46	0.44
1:A:1009:MET:SD	1:A:1009:MET:N	2.88	0.44
1:A:1017:LEU:HA	1:A:1020:ILE:HD12	1.99	0.44
1:A:1697:LEU:HD12	1:A:1698:ASN:N	2.33	0.44
1:C:1008:PHE:CD2	1:C:1079:TRP:NE1	2.85	0.44
1:C:2198:PHE:CE2	2:C:2601:PLX:H192	2.53	0.44
1:C:2405:LEU:HD12	1:C:2430:TRP:CZ2	2.52	0.44
1:E:1406:VAL:HG12	1:E:2527:ALA:HB3	1.99	0.44
1:E:1665:PHE:O	1:E:1669:GLN:OE1	2.36	0.44
1:E:2085:VAL:O	1:E:2088:ILE:HG23	2.18	0.44
1:A:2121:LEU:HD12	1:A:2122:PHE:N	2.33	0.43
1:A:2153:MET:HE1	1:C:2485:PHE:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2601:PLX:H1A2	2:A:2601:PLX:H21	1.82	0.43
1:C:1017:LEU:HA	1:C:1020:ILE:HD12	1.99	0.43
1:C:1188:CYS:O	1:C:1191:LEU:HG	2.17	0.43
1:C:1332:ASN:HA	1:C:1335:ARG:CZ	2.48	0.43
1:C:1721:THR:HA	1:C:1971:ARG:HH12	1.83	0.43
1:C:2494:PHE:CE2	1:E:2490:HIS:CD2	3.06	0.43
1:C:2498:PRO:HD2	1:C:2543:THR:HB	1.99	0.43
2:C:2601:PLX:H1A2	2:C:2601:PLX:H21	1.82	0.43
1:E:1091:SER:HB2	1:E:1094:LEU:CD1	2.48	0.43
1:E:1107:GLN:HG3	1:E:1111:PHE:CE1	2.53	0.43
1:E:1347:ARG:HA	1:E:1350:LYS:HD2	1.99	0.43
1:E:1354:ALA:HB1	1:E:1414:LEU:HD13	2.00	0.43
1:E:1537:GLU:OE1	1:E:1538:ARG:NH1	2.51	0.43
1:E:1656:ILE:H	1:E:1659:LEU:HD21	1.82	0.43
1:E:1982:LEU:O	1:E:1986:VAL:HG23	2.17	0.43
1:A:1198:LEU:O	1:A:1201:LYS:HG3	2.19	0.43
1:A:1790:LEU:HD11	1:A:1794:PHE:CZ	2.50	0.43
1:A:1999:GLY:HA2	1:A:2015:GLN:OE1	2.17	0.43
1:A:2505:LYS:HZ2	1:A:2506:LEU:HD22	1.83	0.43
1:C:1537:GLU:OE1	1:C:1538:ARG:NH1	2.51	0.43
1:C:1665:PHE:O	1:C:1669:GLN:OE1	2.36	0.43
1:C:2309:TYR:CE2	1:C:2355:ALA:HB1	2.53	0.43
1:E:1355:LYS:O	1:E:1359:TYR:HD2	2.01	0.43
1:E:1413:PHE:CD2	1:E:1414:LEU:HG	2.53	0.43
1:E:2210:MET:HA	1:E:2214:ARG:HB3	1.99	0.43
1:A:1241:ASN:C	1:A:1243:CYS:H	2.21	0.43
1:A:1695:ILE:O	1:A:1699:HIS:CD2	2.71	0.43
1:A:2166:LYS:HE2	1:A:2500:VAL:CG1	2.46	0.43
1:A:2198:PHE:CE2	2:A:2601:PLX:H192	2.53	0.43
1:A:2210:MET:HA	1:A:2214:ARG:HB3	1.99	0.43
1:C:1025:ARG:O	1:C:1029:ILE:HG13	2.19	0.43
1:C:1193:LEU:CA	1:C:1797:ARG:HH12	2.27	0.43
1:C:1529:THR:O	1:C:1533:VAL:HG22	2.17	0.43
1:C:1800:LEU:O	1:C:1804:GLY:N	2.46	0.43
1:C:2473:ILE:O	1:C:2477:VAL:HG23	2.18	0.43
1:E:1318:ARG:H	1:E:1318:ARG:CD	2.32	0.43
1:E:1695:ILE:O	1:E:1699:HIS:CD2	2.71	0.43
1:E:1700:MET:CG	1:E:2080:GLN:CB	2.88	0.43
1:E:2151:ASN:O	1:E:2155:VAL:HG23	2.18	0.43
1:A:1054:MET:HG2	1:A:1083:PRO:HG2	1.99	0.43
1:A:1118:GLU:HG2	1:A:1119:TRP:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1529:THR:O	1:A:1533:VAL:HG22	2.17	0.43
1:A:1721:THR:HA	1:A:1971:ARG:HH12	1.83	0.43
1:A:1954:PHE:HA	1:A:1958:LEU:HB2	2.00	0.43
1:A:1982:LEU:O	1:A:1985:ILE:HG12	2.18	0.43
1:A:2085:VAL:O	1:A:2088:ILE:HG23	2.18	0.43
1:C:1049:LEU:HA	1:C:1052:LEU:HD12	2.00	0.43
1:C:1064:TRP:CD1	1:C:1065:ARG:HG2	2.53	0.43
1:C:1355:LYS:HA	1:C:1358:LYS:HZ3	1.82	0.43
1:C:1697:LEU:HD12	1:C:1698:ASN:N	2.33	0.43
1:C:1954:PHE:HA	1:C:1958:LEU:HB2	2.00	0.43
1:C:2121:LEU:HD12	1:C:2122:PHE:N	2.33	0.43
1:E:1241:ASN:C	1:E:1243:CYS:H	2.21	0.43
1:E:2498:PRO:HD2	1:E:2543:THR:HB	1.99	0.43
1:E:2502:ARG:HB2	1:E:2542:TRP:CZ3	2.54	0.43
1:A:1029:ILE:O	1:A:1033:TRP:CD1	2.72	0.43
1:A:1251:LEU:HD13	1:A:1251:LEU:HA	1.85	0.43
1:A:1656:ILE:HG23	1:A:1657:PRO:HD2	2.01	0.43
1:A:1665:PHE:O	1:A:1669:GLN:OE1	2.36	0.43
1:A:2053:LEU:HD22	1:A:2090:PHE:CG	2.54	0.43
1:A:2204:TRP:CD1	1:A:2207:LEU:HD12	2.54	0.43
1:A:2376:ILE:O	1:A:2448:ILE:HA	2.18	0.43
1:C:1117:GLU:OE2	1:C:1121:ARG:NH2	2.51	0.43
1:C:1354:ALA:HA	1:C:1357:GLU:CD	2.39	0.43
1:C:1740:MET:SD	1:C:1741:VAL:N	2.91	0.43
1:C:1957:PRO:HA	1:C:1960:ARG:CD	2.45	0.43
1:C:2122:PHE:HE1	1:C:2163:PHE:CE2	2.36	0.43
1:C:2425:ASP:HB3	1:C:2426:PHE:CD1	2.52	0.43
1:C:2502:ARG:HB2	1:C:2542:TRP:CH2	2.54	0.43
1:E:1415:PHE:CE1	1:E:2528:LYS:HB2	2.54	0.43
1:E:1552:ARG:O	1:E:1555:VAL:HG12	2.17	0.43
1:E:2037:LEU:HD12	1:E:2041:LYS:HA	2.00	0.43
1:A:1005:ARG:HE	1:A:1010:VAL:HG12	1.71	0.43
1:A:1006:MET:HB3	1:A:1229:LEU:HD11	2.00	0.43
1:A:1302:PHE:O	1:A:1306:SER:N	2.46	0.43
1:A:1354:ALA:HA	1:A:1357:GLU:CD	2.39	0.43
1:A:2482:ARG:HA	1:A:2485:PHE:CE1	2.53	0.43
1:C:1091:SER:HB2	1:C:1094:LEU:CD1	2.48	0.43
1:C:1142:ASN:O	1:C:1144:ILE:HD12	2.18	0.43
1:C:1198:LEU:O	1:C:1201:LYS:HG3	2.18	0.43
1:C:1677:ARG:O	1:C:1680:TYR:HB3	2.19	0.43
1:C:1695:ILE:O	1:C:1699:HIS:CD2	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2152:TRP:CD1	1:C:2156:GLU:OE2	2.72	0.43
1:E:1094:LEU:HD12	1:E:1094:LEU:H	1.84	0.43
1:E:1155:VAL:HA	1:E:1158:PHE:CD2	2.54	0.43
1:E:1679:GLY:CA	1:E:1682:CYS:HG	2.32	0.43
1:E:1721:THR:HA	1:E:1971:ARG:HH12	1.83	0.43
1:E:2053:LEU:HD22	1:E:2090:PHE:CG	2.54	0.43
1:E:2114:TYR:H	1:E:2118:ASN:HD22	1.65	0.43
1:E:2230:LEU:HD11	1:E:2317:LEU:HD21	2.01	0.43
1:A:1025:ARG:O	1:A:1029:ILE:HG13	2.19	0.43
1:A:1094:LEU:HD12	1:A:1094:LEU:H	1.84	0.43
1:A:1248:LEU:O	1:A:1249:PHE:CD1	2.72	0.43
1:A:1415:PHE:CE1	1:A:2528:LYS:HB2	2.54	0.43
1:A:2473:ILE:O	1:A:2477:VAL:HG23	2.18	0.43
1:C:1162:PHE:O	1:C:1165:VAL:HG22	2.19	0.43
1:C:1238:MET:O	1:C:1242:PHE:CB	2.51	0.43
1:C:1790:LEU:HD11	1:C:1794:PHE:CZ	2.50	0.43
1:C:2085:VAL:O	1:C:2088:ILE:HG23	2.18	0.43
1:C:2376:ILE:O	1:C:2448:ILE:HA	2.18	0.43
1:E:1201:LYS:HE3	1:E:1206:GLN:HB3	2.01	0.43
1:E:1332:ASN:HA	1:E:1335:ARG:CZ	2.48	0.43
1:E:2071:ARG:HH22	1:E:2079:ALA:HB2	1.84	0.43
1:A:1317:SER:OG	1:A:1318:ARG:HD2	2.19	0.43
1:A:2151:ASN:HB3	1:A:2526:TYR:CE1	2.53	0.43
1:A:2407:ARG:NE	1:A:2426:PHE:CE2	2.84	0.43
1:C:653:PHE:HB3	1:C:678:LEU:HG	2.00	0.43
1:C:1029:ILE:O	1:C:1033:TRP:CD1	2.72	0.43
1:C:1045:LEU:HD12	1:C:1046:TYR:N	2.34	0.43
1:C:1105:SER:O	1:C:1109:GLN:NE2	2.52	0.43
1:C:1218:VAL:HA	1:C:1221:ILE:CD1	2.46	0.43
1:C:2037:LEU:HD12	1:C:2041:LYS:HA	2.00	0.43
1:C:2106:LEU:HD23	1:C:2107:GLY:N	2.34	0.43
1:C:2115:ASN:OD1	1:C:2116:HIS:ND1	2.45	0.43
1:E:604:VAL:O	1:E:606:TYR:N	2.52	0.43
1:E:1025:ARG:O	1:E:1029:ILE:HG13	2.19	0.43
1:E:1248:LEU:O	1:E:1249:PHE:CD1	2.72	0.43
1:E:2183:LYS:HE2	1:E:2188:LYS:HZ1	1.82	0.43
1:E:2493:MET:CE	1:E:2493:MET:N	2.81	0.43
1:E:2502:ARG:HB2	1:E:2542:TRP:CH2	2.54	0.43
1:E:2505:LYS:HE2	1:E:2505:LYS:HB2	1.86	0.43
1:E:2513:VAL:HG21	1:E:2521:LEU:HB2	2.00	0.43
2:E:2601:PLX:H342	2:E:2601:PLX:H311	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1049:LEU:HA	1:A:1052:LEU:HD12	2.00	0.43
1:A:1105:SER:O	1:A:1109:GLN:NE2	2.52	0.43
1:A:1242:PHE:CD1	1:A:1245:VAL:HB	2.54	0.43
1:A:1355:LYS:O	1:A:1359:TYR:HD2	2.01	0.43
1:A:1453:LEU:HD23	1:A:1453:LEU:HA	1.74	0.43
1:A:1453:LEU:HG	1:A:1504:PHE:CE1	2.54	0.43
1:A:2487:GLU:HB3	1:A:2490:HIS:ND1	2.34	0.43
1:C:1318:ARG:H	1:C:1318:ARG:CD	2.32	0.43
1:C:1406:VAL:HG12	1:C:2527:ALA:HB3	1.99	0.43
1:C:1415:PHE:CE1	1:C:2528:LYS:HB2	2.54	0.43
1:C:2204:TRP:CD1	1:C:2207:LEU:HD12	2.54	0.43
1:C:2505:LYS:HE2	1:C:2505:LYS:HB2	1.86	0.43
1:E:997:MET:HB3	1:E:1099:LEU:HD12	2.01	0.43
1:E:1064:TRP:CD1	1:E:1065:ARG:HG2	2.53	0.43
1:E:1142:ASN:O	1:E:1144:ILE:HD12	2.18	0.43
1:E:1284:SER:O	1:E:1287:PHE:HB2	2.18	0.43
1:E:1354:ALA:HA	1:E:1357:GLU:CD	2.39	0.43
1:E:1982:LEU:O	1:E:1985:ILE:HG12	2.18	0.43
1:E:2199:LEU:HA	1:E:2202:ILE:HG12	2.01	0.43
1:E:2473:ILE:O	1:E:2477:VAL:HG23	2.18	0.43
1:E:2487:GLU:HB3	1:E:2490:HIS:ND1	2.34	0.43
1:E:2536:PRO:HA	1:E:2539:MET:CE	2.49	0.43
1:A:1064:TRP:CD1	1:A:1065:ARG:HG2	2.53	0.43
1:A:1155:VAL:HA	1:A:1158:PHE:CD2	2.54	0.43
1:A:1310:LYS:HZ2	1:A:1541:LEU:HB3	1.83	0.43
1:A:2405:LEU:HD21	1:A:2407:ARG:HD3	2.01	0.43
1:A:2536:PRO:HA	1:A:2539:MET:CE	2.49	0.43
1:A:2540:ILE:HA	1:A:2543:THR:OG1	2.19	0.43
1:C:1241:ASN:C	1:C:1243:CYS:H	2.21	0.43
1:C:1317:SER:OG	1:C:1318:ARG:HD2	2.19	0.43
1:C:2194:LEU:O	1:C:2197:LEU:HG	2.19	0.43
1:C:2515:GLU:OE1	1:C:2515:GLU:N	2.48	0.43
1:E:1029:ILE:O	1:E:1033:TRP:CD1	2.72	0.43
1:E:2105:ILE:HG22	1:E:2106:LEU:N	2.34	0.43
1:E:2376:ILE:O	1:E:2448:ILE:HA	2.18	0.43
1:A:604:VAL:O	1:A:606:TYR:N	2.52	0.42
1:A:989:PHE:N	1:A:989:PHE:CD1	2.86	0.42
1:A:1207:LEU:HD12	1:A:1208:VAL:N	2.34	0.42
1:A:2105:ILE:HG22	1:A:2106:LEU:N	2.34	0.42
1:A:2474:VAL:HB	1:E:2130:PHE:HZ	1.84	0.42
1:C:967:ARG:HA	1:C:970:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1201:LYS:HE3	1:C:1206:GLN:HB3	2.01	0.42
1:C:1242:PHE:CD1	1:C:1245:VAL:HB	2.54	0.42
1:C:1458:GLU:HA	1:C:1461:ARG:NE	2.30	0.42
1:C:1714:VAL:HA	1:C:1729:PHE:HE2	1.82	0.42
1:C:2126:ARG:HH22	1:C:2132:VAL:CG1	2.32	0.42
1:E:974:LEU:O	1:E:978:LEU:HD23	2.19	0.42
1:E:1015:CYS:HA	1:E:1018:VAL:CG1	2.49	0.42
1:E:1112:SER:O	1:E:1116:THR:OG1	2.31	0.42
1:E:1242:PHE:CD1	1:E:1245:VAL:HB	2.54	0.42
1:E:2152:TRP:CD1	1:E:2156:GLU:OE2	2.72	0.42
1:E:2425:ASP:HB3	1:E:2426:PHE:CD1	2.52	0.42
1:A:1034:PRO:HG3	1:A:1111:PHE:CZ	2.55	0.42
1:A:1045:LEU:HD12	1:A:1046:TYR:N	2.34	0.42
1:A:1115:ARG:C	1:A:1116:THR:HG1	2.22	0.42
1:A:1281:ILE:HG13	1:A:1282:TRP:N	2.34	0.42
1:A:2063:PHE:C	1:A:2066:PRO:HD2	2.40	0.42
1:A:2490:HIS:HA	1:E:2494:PHE:CE2	2.53	0.42
1:A:2515:GLU:OE1	1:A:2515:GLU:N	2.48	0.42
1:C:1006:MET:HB3	1:C:1229:LEU:HD11	2.00	0.42
1:C:1065:ARG:HH11	1:C:1082:LEU:HD12	1.84	0.42
1:C:1354:ALA:HB1	1:C:1414:LEU:HD13	2.00	0.42
1:C:1656:ILE:HG23	1:C:1657:PRO:HD2	2.01	0.42
1:C:2536:PRO:HA	1:C:2539:MET:CE	2.49	0.42
1:E:1092:THR:O	1:E:1095:ILE:HG13	2.19	0.42
1:E:1193:LEU:CA	1:E:1797:ARG:HH12	2.27	0.42
1:E:1198:LEU:O	1:E:1201:LYS:HG3	2.19	0.42
1:E:1314:LEU:HD23	1:E:1314:LEU:H	1.84	0.42
1:E:2063:PHE:C	1:E:2066:PRO:HD2	2.40	0.42
1:E:2131:LEU:O	1:E:2134:LEU:HG	2.19	0.42
1:A:1099:LEU:HD13	1:A:1099:LEU:HA	1.95	0.42
1:A:1142:ASN:O	1:A:1144:ILE:HD12	2.18	0.42
1:A:1201:LYS:HE3	1:A:1206:GLN:HB3	2.01	0.42
1:A:1692:TYR:HA	1:A:1695:ILE:HG12	2.01	0.42
1:A:2230:LEU:HD11	1:A:2317:LEU:HD21	2.00	0.42
1:C:604:VAL:O	1:C:606:TYR:N	2.52	0.42
1:C:1015:CYS:HA	1:C:1018:VAL:CG1	2.49	0.42
1:C:1032:LEU:HD13	1:C:1035:ASN:HD21	1.84	0.42
1:C:1034:PRO:HG3	1:C:1111:PHE:CZ	2.55	0.42
1:C:2063:PHE:C	1:C:2066:PRO:HD2	2.40	0.42
1:C:2105:ILE:HG22	1:C:2106:LEU:N	2.34	0.42
1:C:2230:LEU:HD11	1:C:2317:LEU:HD21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2487:GLU:HB3	1:C:2490:HIS:ND1	2.34	0.42
1:C:2494:PHE:CE2	1:E:2490:HIS:HA	2.54	0.42
1:E:653:PHE:HB3	1:E:678:LEU:HG	2.00	0.42
1:E:1065:ARG:HH11	1:E:1082:LEU:HD12	1.84	0.42
1:E:1106:GLN:HA	1:E:1106:GLN:OE1	2.19	0.42
1:E:1529:THR:O	1:E:1532:ASP:OD1	2.38	0.42
1:E:1677:ARG:O	1:E:1680:TYR:HB3	2.19	0.42
1:E:2145:THR:CG2	1:E:2147:LEU:HD23	2.50	0.42
1:A:653:PHE:HB3	1:A:678:LEU:HG	2.00	0.42
1:A:1038:LEU:O	1:A:1042:LEU:HD23	2.19	0.42
1:A:1117:GLU:OE2	1:A:1121:ARG:NH2	2.51	0.42
1:A:1529:THR:O	1:A:1532:ASP:OD1	2.37	0.42
1:A:2145:THR:CG2	1:A:2147:LEU:HD23	2.50	0.42
1:A:2152:TRP:CD1	1:A:2156:GLU:OE2	2.72	0.42
1:A:2513:VAL:HG21	1:A:2521:LEU:HB2	2.00	0.42
1:C:1065:ARG:HA	1:C:1072:MET:HE3	2.01	0.42
1:C:1092:THR:O	1:C:1095:ILE:HG13	2.19	0.42
1:C:1094:LEU:HD12	1:C:1094:LEU:H	1.84	0.42
1:C:1184:TYR:HE1	1:C:1216:TYR:CE2	2.38	0.42
1:C:2130:PHE:HZ	1:E:2474:VAL:HB	1.85	0.42
1:C:2286:ILE:HG13	1:C:2444:LEU:HB2	2.02	0.42
1:E:1105:SER:O	1:E:1109:GLN:NE2	2.52	0.42
1:E:1161:LEU:O	1:E:1165:VAL:HG13	2.20	0.42
1:E:1281:ILE:HG13	1:E:1282:TRP:N	2.34	0.42
1:E:2041:LYS:CB	1:E:2102:PRO:HG2	2.38	0.42
1:E:2121:LEU:HD12	1:E:2122:PHE:N	2.33	0.42
1:A:1162:PHE:O	1:A:1165:VAL:HG22	2.19	0.42
1:A:1677:ARG:O	1:A:1680:TYR:HB3	2.19	0.42
1:A:2502:ARG:HB2	1:A:2542:TRP:CH2	2.54	0.42
1:C:974:LEU:O	1:C:978:LEU:HD23	2.19	0.42
1:C:1310:LYS:CE	1:C:1541:LEU:HB3	2.50	0.42
1:C:1453:LEU:HG	1:C:1504:PHE:CE1	2.54	0.42
1:C:1783:ILE:HD11	1:C:1786:ASP:CB	2.46	0.42
1:C:2071:ARG:HH22	1:C:2079:ALA:HB2	1.84	0.42
1:C:2131:LEU:O	1:C:2134:LEU:HG	2.19	0.42
1:C:2145:THR:CG2	1:C:2147:LEU:HD23	2.50	0.42
1:E:1045:LEU:HD12	1:E:1046:TYR:N	2.34	0.42
1:E:1464:ARG:HA	1:E:1464:ARG:NE	2.35	0.42
1:E:2194:LEU:O	1:E:2197:LEU:HG	2.19	0.42
1:E:2540:ILE:HA	1:E:2543:THR:OG1	2.19	0.42
1:A:1314:LEU:HD23	1:A:1314:LEU:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1658:GLU:HA	1:A:1661:GLU:OE1	2.20	0.42
1:A:2037:LEU:HD12	1:A:2041:LYS:HA	2.00	0.42
1:C:654:GLN:CD	1:C:680:GLN:HG3	2.40	0.42
1:C:1154:LYS:HE2	1:C:1158:PHE:CZ	2.50	0.42
1:C:1207:LEU:HD12	1:C:1208:VAL:N	2.34	0.42
1:C:1248:LEU:O	1:C:1249:PHE:CD1	2.72	0.42
1:C:1251:LEU:HA	1:C:1251:LEU:HD13	1.85	0.42
1:C:1346:LYS:HD3	1:C:1350:LYS:HE3	2.02	0.42
1:C:1797:ARG:HA	1:C:1800:LEU:HG	2.02	0.42
1:C:1942:ARG:HB3	1:C:1946:PHE:HE2	1.85	0.42
1:C:2053:LEU:HD22	1:C:2090:PHE:CG	2.54	0.42
1:E:967:ARG:HA	1:E:970:LEU:HD12	2.01	0.42
1:E:1191:LEU:HA	1:E:1194:PHE:CZ	2.55	0.42
1:E:1207:LEU:HD12	1:E:1208:VAL:N	2.34	0.42
1:E:2405:LEU:HD21	1:E:2407:ARG:HD3	2.01	0.42
1:A:997:MET:HB3	1:A:1099:LEU:HD12	2.01	0.42
1:A:1032:LEU:HD13	1:A:1035:ASN:HD21	1.84	0.42
1:A:1310:LYS:CE	1:A:1541:LEU:HB3	2.50	0.42
1:A:2021:LEU:O	1:A:2024:LEU:HG	2.19	0.42
1:A:2131:LEU:O	1:A:2134:LEU:HG	2.19	0.42
1:A:2286:ILE:HG13	1:A:2444:LEU:HB2	2.02	0.42
1:A:2510:ILE:CD1	1:A:2522:GLU:OE1	2.68	0.42
1:C:989:PHE:CD1	1:C:989:PHE:N	2.86	0.42
1:C:1314:LEU:HD23	1:C:1314:LEU:H	1.84	0.42
1:C:1529:THR:O	1:C:1532:ASP:OD1	2.37	0.42
1:C:1722:ILE:HA	1:C:2098:ARG:NH1	2.35	0.42
1:C:1961:PHE:O	1:C:1965:ILE:HG23	2.20	0.42
1:C:2021:LEU:O	1:C:2024:LEU:HG	2.19	0.42
1:E:1032:LEU:HD13	1:E:1035:ASN:HD21	1.84	0.42
1:E:1034:PRO:HG3	1:E:1111:PHE:CZ	2.54	0.42
1:E:1038:LEU:O	1:E:1042:LEU:HD23	2.19	0.42
1:E:1656:ILE:HG23	1:E:1657:PRO:HD2	2.01	0.42
1:E:2268:LEU:O	1:E:2271:GLN:HG3	2.20	0.42
1:A:1015:CYS:HA	1:A:1018:VAL:CG1	2.49	0.42
1:A:1161:LEU:O	1:A:1165:VAL:HG13	2.20	0.42
1:A:1218:VAL:O	1:A:1221:ILE:HB	2.20	0.42
1:A:1354:ALA:HB1	1:A:1414:LEU:HD13	2.00	0.42
1:A:1658:GLU:HA	1:A:1661:GLU:CD	2.40	0.42
1:A:1722:ILE:HA	1:A:2098:ARG:NH1	2.35	0.42
1:A:2466:ILE:HD12	1:A:2466:ILE:H	1.85	0.42
1:A:2494:PHE:CE2	1:C:2490:HIS:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1040:LEU:HD13	1:C:1100:LEU:HD23	2.01	0.42
1:C:2502:ARG:HB2	1:C:2542:TRP:CZ3	2.54	0.42
2:C:2601:PLX:H342	2:C:2601:PLX:H311	1.84	0.42
1:E:1040:LEU:HD13	1:E:1100:LEU:HD23	2.01	0.42
1:E:1310:LYS:CE	1:E:1541:LEU:HB3	2.50	0.42
1:E:1658:GLU:HA	1:E:1661:GLU:OE1	2.20	0.42
1:A:1092:THR:O	1:A:1095:ILE:HG13	2.19	0.42
1:A:1347:ARG:HA	1:A:1350:LYS:CD	2.50	0.42
1:A:1459:ARG:HA	1:A:1462:GLN:OE1	2.20	0.42
1:A:1724:ARG:HH21	1:A:1807:ASP:CG	2.23	0.42
1:A:2130:PHE:HZ	1:C:2474:VAL:HB	1.84	0.42
1:A:2199:LEU:HA	1:A:2202:ILE:HG12	2.01	0.42
1:A:2207:LEU:HD21	1:A:2470:TYR:CE1	2.55	0.42
1:A:2502:ARG:HB2	1:A:2542:TRP:CZ3	2.54	0.42
1:C:1161:LEU:O	1:C:1165:VAL:HG13	2.20	0.42
1:C:1191:LEU:HA	1:C:1194:PHE:CZ	2.55	0.42
1:C:1459:ARG:HA	1:C:1462:GLN:OE1	2.20	0.42
1:C:1658:GLU:HA	1:C:1661:GLU:OE1	2.20	0.42
1:C:1659:LEU:O	1:C:1663:GLU:OE1	2.38	0.42
1:C:2199:LEU:HA	1:C:2202:ILE:HG12	2.01	0.42
1:C:2405:LEU:HD21	1:C:2407:ARG:HD3	2.01	0.42
1:C:2466:ILE:H	1:C:2466:ILE:HD12	1.85	0.42
1:E:1115:ARG:C	1:E:1116:THR:HG1	2.23	0.42
1:E:1453:LEU:HG	1:E:1504:PHE:CE1	2.54	0.42
1:E:1459:ARG:HA	1:E:1462:GLN:OE1	2.20	0.42
1:E:1658:GLU:HA	1:E:1661:GLU:CD	2.40	0.42
1:E:2106:LEU:HD23	1:E:2107:GLY:N	2.34	0.42
1:A:1360:ARG:HD2	1:A:1361:GLN:N	2.35	0.42
1:A:1532:ASP:HA	1:A:1535:CYS:SG	2.60	0.42
1:C:1038:LEU:O	1:C:1042:LEU:HD23	2.19	0.42
1:C:1176:ARG:HB2	1:C:1282:TRP:HE3	1.85	0.42
1:C:1281:ILE:HG13	1:C:1282:TRP:N	2.34	0.42
1:C:1345:LEU:C	1:C:1348:GLN:HB3	2.39	0.42
1:E:1082:LEU:HD23	1:E:1082:LEU:HA	1.95	0.42
1:E:1224:LYS:HB2	1:E:1224:LYS:HZ3	1.80	0.42
1:E:1532:ASP:HA	1:E:1535:CYS:SG	2.60	0.42
1:E:1954:PHE:HA	1:E:1958:LEU:HB2	2.00	0.42
1:E:1995:PHE:CD1	1:E:2020:PHE:HD1	2.38	0.42
1:E:2017:PRO:HA	1:E:2020:PHE:CE2	2.55	0.42
1:E:2021:LEU:O	1:E:2024:LEU:HG	2.19	0.42
1:E:2210:MET:O	1:E:2214:ARG:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2466:ILE:H	1:E:2466:ILE:HD12	1.85	0.42
1:A:974:LEU:O	1:A:978:LEU:HD23	2.19	0.41
1:A:1015:CYS:HA	1:A:1018:VAL:HG13	2.02	0.41
1:A:1040:LEU:HD13	1:A:1100:LEU:HD23	2.01	0.41
1:A:2210:MET:O	1:A:2214:ARG:HB3	2.20	0.41
1:A:2485:PHE:HZ	1:E:2132:VAL:HG21	1.85	0.41
1:C:1149:TYR:HA	1:C:1152:MET:HE2	2.02	0.41
1:C:1347:ARG:HA	1:C:1350:LYS:CE	2.50	0.41
1:C:1495:MET:H	1:C:1495:MET:HG3	1.71	0.41
1:C:1737:THR:O	1:C:1740:MET:HG3	2.20	0.41
1:E:995:PHE:O	1:E:999:VAL:HG13	2.20	0.41
1:E:1360:ARG:HD2	1:E:1361:GLN:N	2.35	0.41
1:E:2125:PHE:O	1:E:2128:VAL:HG22	2.20	0.41
1:E:2204:TRP:CD1	1:E:2207:LEU:HD12	2.54	0.41
1:E:2510:ILE:CD1	1:E:2522:GLU:OE1	2.68	0.41
1:E:2524:GLU:HG2	1:E:2528:LYS:HZ3	1.85	0.41
1:A:1176:ARG:HB2	1:A:1282:TRP:HE3	1.85	0.41
1:A:1297:PHE:CD1	1:A:1302:PHE:HZ	2.38	0.41
1:A:1995:PHE:CD1	1:A:2020:PHE:HD1	2.38	0.41
1:A:2106:LEU:HD23	1:A:2107:GLY:N	2.34	0.41
1:A:2194:LEU:O	1:A:2197:LEU:HG	2.19	0.41
1:A:2268:LEU:O	1:A:2271:GLN:HG3	2.20	0.41
1:A:2324:GLN:HB2	1:A:2335:TYR:HE1	1.84	0.41
1:C:985:PHE:O	1:C:989:PHE:HB2	2.20	0.41
1:C:1140:ILE:HA	1:C:1143:PHE:CE2	2.56	0.41
1:C:1513:VAL:HA	1:C:1516:LEU:HG	2.02	0.41
1:C:2047:LEU:CA	1:C:2050:GLN:HE21	2.33	0.41
1:C:2497:LEU:HA	1:C:2497:LEU:HD13	1.87	0.41
1:E:1162:PHE:O	1:E:1165:VAL:HG22	2.19	0.41
1:E:1180:PHE:HE2	1:E:1224:LYS:HG2	1.82	0.41
1:E:1297:PHE:CD1	1:E:1302:PHE:HZ	2.38	0.41
1:E:1961:PHE:O	1:E:1965:ILE:HG23	2.20	0.41
1:A:654:GLN:CD	1:A:680:GLN:HG3	2.40	0.41
1:A:656:GLN:C	1:A:659:PRO:HD2	2.40	0.41
1:A:1242:PHE:HD1	1:A:1245:VAL:HG11	1.85	0.41
1:A:1345:LEU:C	1:A:1348:GLN:HB3	2.39	0.41
1:A:1797:ARG:HA	1:A:1800:LEU:HG	2.02	0.41
1:A:2071:ARG:HH22	1:A:2079:ALA:HB2	1.84	0.41
1:A:2138:MET:O	1:A:2142:TRP:HD1	2.04	0.41
1:A:2153:MET:HE1	1:C:2488:ILE:HD11	2.02	0.41
1:A:2336:THR:HG22	1:A:2384:ALA:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1013:HIS:O	1:C:1016:TRP:HB2	2.20	0.41
1:C:1658:GLU:HA	1:C:1661:GLU:CD	2.40	0.41
1:C:1973:ALA:O	1:C:2099:CYS:HB2	2.20	0.41
1:C:2125:PHE:O	1:C:2128:VAL:HG22	2.21	0.41
1:E:985:PHE:O	1:E:989:PHE:HB2	2.20	0.41
1:E:1238:MET:O	1:E:1242:PHE:CB	2.51	0.41
1:E:1336:GLN:HA	1:E:1339:GLU:OE1	2.20	0.41
1:E:1513:VAL:HA	1:E:1516:LEU:HG	2.03	0.41
1:E:1692:TYR:HA	1:E:1695:ILE:HG12	2.01	0.41
1:E:1731:MET:HA	1:E:1734:ILE:CG1	2.49	0.41
1:E:2071:ARG:NH2	1:E:2078:VAL:HG23	2.36	0.41
1:E:2118:ASN:HA	1:E:2121:LEU:HG	2.02	0.41
1:A:967:ARG:HA	1:A:970:LEU:HD12	2.01	0.41
1:A:985:PHE:O	1:A:989:PHE:HB2	2.20	0.41
1:A:1144:ILE:HA	1:A:1304:HIS:NE2	2.35	0.41
1:A:1184:TYR:HE1	1:A:1216:TYR:CE2	2.38	0.41
1:A:1245:VAL:O	1:A:1249:PHE:N	2.40	0.41
1:A:1318:ARG:H	1:A:1318:ARG:CD	2.32	0.41
1:A:1464:ARG:HA	1:A:1464:ARG:NE	2.35	0.41
1:A:1659:LEU:O	1:A:1663:GLU:OE1	2.38	0.41
1:A:1961:PHE:O	1:A:1965:ILE:HG23	2.20	0.41
1:A:1969:LYS:O	1:A:1970:TYR:CD1	2.73	0.41
1:A:2118:ASN:HA	1:A:2121:LEU:HG	2.02	0.41
1:A:2126:ARG:HH22	1:A:2132:VAL:CG1	2.32	0.41
1:C:656:GLN:C	1:C:659:PRO:HD2	2.40	0.41
1:C:1155:VAL:HA	1:C:1158:PHE:CD2	2.54	0.41
1:C:1218:VAL:O	1:C:1221:ILE:HB	2.20	0.41
1:C:1959:GLN:HG3	1:C:1963:HIS:HE1	1.85	0.41
1:C:2183:LYS:HE2	1:C:2188:LYS:HZ1	1.84	0.41
1:C:2510:ILE:CD1	1:C:2522:GLU:OE1	2.68	0.41
1:C:2540:ILE:HA	1:C:2543:THR:OG1	2.19	0.41
1:E:654:GLN:CD	1:E:680:GLN:HG3	2.40	0.41
1:E:1347:ARG:HA	1:E:1350:LYS:CE	2.51	0.41
1:E:1347:ARG:HA	1:E:1350:LYS:CD	2.50	0.41
1:E:1415:PHE:HZ	1:E:2528:LYS:O	2.03	0.41
1:E:2138:MET:O	1:E:2142:TRP:HD1	2.04	0.41
1:A:1013:HIS:O	1:A:1016:TRP:HB2	2.20	0.41
1:A:1140:ILE:HA	1:A:1143:PHE:CE2	2.56	0.41
1:A:1323:TYR:OH	1:A:1722:ILE:HG22	2.21	0.41
1:A:1346:LYS:HD3	1:A:1350:LYS:HE3	2.02	0.41
1:A:1706:ALA:HA	1:A:1709:VAL:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1942:ARG:HB3	1:A:1946:PHE:HE2	1.85	0.41
1:A:1973:ALA:O	1:A:2099:CYS:HB2	2.20	0.41
1:A:2125:PHE:O	1:A:2128:VAL:HG22	2.20	0.41
1:A:2132:VAL:HG21	1:C:2485:PHE:HZ	1.86	0.41
1:C:997:MET:HB3	1:C:1099:LEU:HD12	2.01	0.41
1:C:1245:VAL:O	1:C:1249:PHE:N	2.40	0.41
1:C:1323:TYR:OH	1:C:1722:ILE:HG22	2.21	0.41
1:C:1358:LYS:HD3	1:C:1414:LEU:HD12	2.02	0.41
1:C:2133:GLU:OE1	1:C:2133:GLU:N	2.37	0.41
1:C:2268:LEU:O	1:C:2271:GLN:HG3	2.20	0.41
1:E:1140:ILE:HA	1:E:1143:PHE:CE2	2.56	0.41
1:E:1184:TYR:HE1	1:E:1216:TYR:CE2	2.38	0.41
1:E:1976:VAL:O	1:E:1979:LEU:HG	2.20	0.41
1:E:2138:MET:O	1:E:2142:TRP:CD1	2.74	0.41
1:E:2315:ILE:HG22	1:E:2344:LEU:HB2	2.03	0.41
1:A:1537:GLU:OE1	1:A:1538:ARG:NH1	2.51	0.41
1:C:1106:GLN:HA	1:C:1106:GLN:OE1	2.19	0.41
1:C:1180:PHE:HE2	1:C:1224:LYS:HG2	1.82	0.41
1:C:1415:PHE:HZ	1:C:2528:LYS:O	2.03	0.41
1:C:1464:ARG:HA	1:C:1464:ARG:NE	2.35	0.41
1:C:1532:ASP:HA	1:C:1535:CYS:SG	2.60	0.41
1:C:1711:PRO:O	1:C:1714:VAL:HG22	2.21	0.41
1:C:1969:LYS:O	1:C:1970:TYR:CD1	2.73	0.41
1:E:656:GLN:C	1:E:659:PRO:HD2	2.40	0.41
1:E:673:LEU:HB3	1:E:678:LEU:HD11	2.03	0.41
1:E:1045:LEU:O	1:E:1049:LEU:HD23	2.21	0.41
1:E:1218:VAL:O	1:E:1221:ILE:HB	2.20	0.41
1:E:1230:LEU:HA	1:E:1233:VAL:HG22	2.02	0.41
1:E:1242:PHE:HD1	1:E:1245:VAL:HG11	1.85	0.41
1:E:1714:VAL:HG12	1:E:1729:PHE:CE2	2.56	0.41
1:A:995:PHE:O	1:A:999:VAL:HG13	2.20	0.41
1:A:1154:LYS:HE2	1:A:1158:PHE:CZ	2.50	0.41
1:A:1161:LEU:HD13	1:A:1161:LEU:HA	1.87	0.41
1:A:1230:LEU:HD12	1:A:1231:SER:N	2.36	0.41
1:A:1336:GLN:HA	1:A:1339:GLU:OE1	2.20	0.41
1:A:1714:VAL:HG12	1:A:1729:PHE:CZ	2.56	0.41
1:A:1953:SER:HA	1:A:1957:PRO:HG2	2.03	0.41
1:A:2071:ARG:NH2	1:A:2078:VAL:HG23	2.35	0.41
1:C:2118:ASN:HA	1:C:2121:LEU:HG	2.03	0.41
1:C:2138:MET:O	1:C:2142:TRP:HD1	2.04	0.41
1:C:2315:ILE:HG22	1:C:2344:LEU:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1317:SER:OG	1:E:1318:ARG:HD2	2.19	0.41
1:E:1346:LYS:HD3	1:E:1350:LYS:HE3	2.02	0.41
1:E:1724:ARG:HH21	1:E:1807:ASP:CG	2.23	0.41
1:E:2497:LEU:HD13	1:E:2497:LEU:HA	1.87	0.41
1:A:1045:LEU:O	1:A:1049:LEU:HD23	2.21	0.41
1:A:1351:ARG:HE	1:A:2524:GLU:CD	2.24	0.41
1:A:1737:THR:O	1:A:1740:MET:HG3	2.20	0.41
1:A:2017:PRO:HA	1:A:2020:PHE:CE2	2.55	0.41
1:A:2257:GLU:OE1	1:A:2257:GLU:HA	2.21	0.41
1:A:2496:GLU:HB2	1:E:2534:ARG:HE	1.85	0.41
2:A:2601:PLX:H342	2:A:2601:PLX:H311	1.84	0.41
1:C:673:LEU:HB3	1:C:678:LEU:HD11	2.03	0.41
1:C:1242:PHE:HD1	1:C:1245:VAL:HG11	1.85	0.41
1:C:1360:ARG:HD2	1:C:1361:GLN:N	2.35	0.41
1:C:1692:TYR:HA	1:C:1695:ILE:HG12	2.01	0.41
1:C:1699:HIS:HE1	1:C:2083:TYR:CE2	2.39	0.41
1:C:1731:MET:O	1:C:1735:VAL:HG13	2.20	0.41
1:C:1976:VAL:O	1:C:1979:LEU:HG	2.20	0.41
1:C:1995:PHE:CD1	1:C:2020:PHE:HD1	2.38	0.41
1:C:2074:SER:OG	1:C:2075:GLN:OE1	2.23	0.41
1:C:2096:GLN:HA	1:C:2099:CYS:SG	2.61	0.41
1:C:2207:LEU:HD21	1:C:2470:TYR:CE1	2.55	0.41
1:C:2532:LEU:O	1:C:2539:MET:SD	2.79	0.41
1:E:1699:HIS:HE1	1:E:2083:TYR:CE2	2.39	0.41
1:E:1721:THR:OG1	1:E:1723:PRO:HD2	2.21	0.41
1:E:1731:MET:O	1:E:1735:VAL:HG13	2.20	0.41
1:E:1737:THR:O	1:E:1740:MET:HG3	2.20	0.41
1:E:1790:LEU:HD11	1:E:1794:PHE:CZ	2.50	0.41
1:E:1953:SER:HA	1:E:1957:PRO:CD	2.50	0.41
1:E:1969:LYS:O	1:E:1970:TYR:CD1	2.73	0.41
1:E:1970:TYR:O	1:E:2101:TYR:OH	2.39	0.41
1:E:2062:PHE:HZ	1:E:2083:TYR:CE1	2.39	0.41
1:E:2532:LEU:O	1:E:2539:MET:SD	2.79	0.41
1:A:1106:GLN:HA	1:A:1106:GLN:OE1	2.19	0.41
1:A:1415:PHE:HE2	1:A:2532:LEU:HD23	1.86	0.41
1:A:1495:MET:H	1:A:1495:MET:HG3	1.71	0.41
1:A:1528:ARG:O	1:A:1529:THR:C	2.59	0.41
1:A:1795:PHE:HA	1:A:1798:SER:OG	2.21	0.41
1:A:1959:GLN:HG3	1:A:1963:HIS:HE1	1.85	0.41
1:A:1982:LEU:HD12	1:A:1983:ALA:N	2.36	0.41
1:A:2041:LYS:CB	1:A:2102:PRO:HG2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2096:GLN:HA	1:A:2099:CYS:SG	2.61	0.41
1:C:995:PHE:O	1:C:999:VAL:HG13	2.20	0.41
1:C:1144:ILE:HA	1:C:1304:HIS:NE2	2.35	0.41
1:C:1230:LEU:HA	1:C:1233:VAL:HG22	2.02	0.41
1:C:1310:LYS:HZ2	1:C:1541:LEU:HB3	1.85	0.41
1:C:1336:GLN:HA	1:C:1339:GLU:OE1	2.20	0.41
1:C:1347:ARG:HA	1:C:1350:LYS:CD	2.50	0.41
1:C:1721:THR:OG1	1:C:1723:PRO:HD2	2.21	0.41
1:C:1724:ARG:HH21	1:C:1807:ASP:CG	2.23	0.41
1:C:1731:MET:HA	1:C:1734:ILE:CG1	2.49	0.41
1:C:2210:MET:O	1:C:2214:ARG:HB3	2.20	0.41
1:C:2245:GLN:HB2	1:C:2246:PRO:HD3	2.03	0.41
1:C:2472:SER:O	1:C:2475:LEU:HG	2.21	0.41
1:E:1144:ILE:HA	1:E:1304:HIS:NE2	2.35	0.41
1:E:1345:LEU:C	1:E:1348:GLN:HB3	2.39	0.41
1:E:1355:LYS:HA	1:E:1358:LYS:HZ3	1.85	0.41
1:E:1457:ARG:HH12	1:E:1458:GLU:HB3	1.85	0.41
1:E:1688:GLU:HG3	1:E:1691:CYS:SG	2.61	0.41
1:E:1714:VAL:HG12	1:E:1729:PHE:CZ	2.56	0.41
1:E:1722:ILE:HA	1:E:2098:ARG:NH1	2.35	0.41
1:E:1797:ARG:HA	1:E:1800:LEU:HG	2.02	0.41
1:E:1982:LEU:HD12	1:E:1983:ALA:N	2.36	0.41
1:E:2207:LEU:HD21	1:E:2470:TYR:CE1	2.55	0.41
1:E:2257:GLU:HA	1:E:2257:GLU:OE1	2.21	0.41
1:E:2472:SER:O	1:E:2475:LEU:HG	2.21	0.41
1:A:673:LEU:HB3	1:A:678:LEU:HD11	2.03	0.41
1:A:1065:ARG:HH11	1:A:1082:LEU:HD12	1.84	0.41
1:A:1347:ARG:HA	1:A:1350:LYS:CE	2.51	0.41
1:A:1513:VAL:HA	1:A:1516:LEU:HG	2.03	0.41
1:A:1699:HIS:HE1	1:A:2083:TYR:CE2	2.39	0.41
1:A:2114:TYR:CA	1:A:2118:ASN:HD22	2.34	0.41
1:C:1011:ILE:HD13	1:C:1226:MET:CE	2.51	0.41
1:C:1297:PHE:CD1	1:C:1302:PHE:HZ	2.38	0.41
1:C:1351:ARG:HG2	1:C:1355:LYS:HZ3	1.86	0.41
1:C:1784:LYS:HE3	1:C:1785:TYR:CE2	2.56	0.41
1:C:2071:ARG:NH2	1:C:2078:VAL:HG23	2.35	0.41
1:C:2251:PHE:HE2	1:C:2447:VAL:HG13	1.86	0.41
1:C:2524:GLU:HG2	1:C:2528:LYS:HZ1	1.82	0.41
1:E:973:ASP:C	1:E:1150:LEU:HD11	2.42	0.41
1:E:1037:CYS:HA	1:E:1040:LEU:CD2	2.51	0.41
1:E:1802:CYS:SG	1:E:1803:TYR:N	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1953:SER:HA	1:E:1957:PRO:HG2	2.03	0.41
1:A:1011:ILE:HD13	1:A:1226:MET:CE	2.52	0.40
1:A:1037:CYS:HA	1:A:1040:LEU:CD2	2.51	0.40
1:A:1721:THR:OG1	1:A:1723:PRO:HD2	2.21	0.40
1:A:1722:ILE:HA	1:A:2098:ARG:HH12	1.86	0.40
1:A:2040:ARG:NH1	1:A:2144:ASP:OD1	2.55	0.40
1:A:2047:LEU:CA	1:A:2050:GLN:HE21	2.33	0.40
1:A:2138:MET:O	1:A:2142:TRP:CD1	2.74	0.40
1:A:2183:LYS:HE2	1:A:2188:LYS:HZ1	1.86	0.40
1:C:1714:VAL:HG12	1:C:1729:PHE:CZ	2.56	0.40
1:C:1722:ILE:N	1:C:1723:PRO:HD2	2.36	0.40
1:C:1777:GLU:C	1:C:1778:LYS:HD3	2.42	0.40
1:C:1795:PHE:HA	1:C:1798:SER:OG	2.21	0.40
1:C:1802:CYS:SG	1:C:1803:TYR:N	2.94	0.40
1:C:1984:ASP:O	1:C:1987:ASP:HB2	2.22	0.40
1:C:2132:VAL:HG21	1:E:2485:PHE:HZ	1.86	0.40
1:C:2183:LYS:NZ	1:C:2188:LYS:HD2	2.37	0.40
1:C:2376:ILE:HG13	1:C:2446:MET:CE	2.51	0.40
1:C:2391:GLN:HB3	1:C:2397:ASP:HB2	2.03	0.40
1:E:974:LEU:HD23	1:E:1150:LEU:CD2	2.51	0.40
1:E:1013:HIS:O	1:E:1016:TRP:HB2	2.21	0.40
1:E:1066:TRP:HB3	1:E:1068:LYS:H	1.87	0.40
1:E:1351:ARG:HE	1:E:2524:GLU:CD	2.24	0.40
1:E:2040:ARG:NH1	1:E:2144:ASP:OD1	2.55	0.40
1:E:2114:TYR:CA	1:E:2118:ASN:HD22	2.34	0.40
1:A:973:ASP:C	1:A:1150:LEU:HD11	2.42	0.40
1:A:1191:LEU:HA	1:A:1194:PHE:CZ	2.55	0.40
1:A:1521:ARG:HA	1:A:1521:ARG:HD2	1.88	0.40
1:A:1545:LEU:HD13	1:A:1545:LEU:HA	1.95	0.40
1:A:1714:VAL:HG12	1:A:1729:PHE:CE2	2.56	0.40
1:A:1722:ILE:N	1:A:1723:PRO:HD2	2.36	0.40
1:A:1802:CYS:SG	1:A:1803:TYR:N	2.94	0.40
1:A:2041:LYS:HD3	1:A:2046:LYS:CE	2.52	0.40
1:A:2166:LYS:HD3	1:A:2169:ARG:NH1	2.33	0.40
1:A:2172:GLU:OE2	1:A:2173:LYS:NZ	2.31	0.40
1:A:2376:ILE:HG13	1:A:2446:MET:CE	2.51	0.40
1:C:973:ASP:C	1:C:1150:LEU:HD11	2.42	0.40
1:C:1414:LEU:HD23	1:C:1414:LEU:HA	1.84	0.40
1:C:1989:ILE:HA	1:C:1992:ILE:HG12	2.04	0.40
1:C:2040:ARG:NH1	1:C:2144:ASP:OD1	2.55	0.40
1:C:2257:GLU:OE1	1:C:2257:GLU:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1015:CYS:HA	1:E:1018:VAL:HG13	2.02	0.40
1:E:1245:VAL:O	1:E:1249:PHE:N	2.40	0.40
1:E:1306:SER:HA	1:E:1309:LEU:CD2	2.52	0.40
1:E:1973:ALA:O	1:E:2099:CYS:HB2	2.20	0.40
1:E:2047:LEU:CA	1:E:2050:GLN:HE21	2.33	0.40
1:E:2256:TYR:OH	1:E:2273:ILE:O	2.31	0.40
1:E:2376:ILE:HG13	1:E:2446:MET:CE	2.51	0.40
1:A:1201:LYS:HZ2	1:A:1206:GLN:N	2.19	0.40
1:A:2245:GLN:HB2	1:A:2246:PRO:HD3	2.03	0.40
1:A:2391:GLN:HB3	1:A:2397:ASP:HB2	2.03	0.40
1:A:2497:LEU:HA	1:A:2498:PRO:HD3	1.98	0.40
1:A:2532:LEU:O	1:A:2539:MET:SD	2.79	0.40
1:C:1051:CYS:HA	1:C:1081:TYR:CD1	2.57	0.40
1:C:1245:VAL:O	1:C:1248:LEU:HB2	2.22	0.40
1:C:1714:VAL:HG12	1:C:1729:PHE:CE2	2.56	0.40
1:C:2041:LYS:HD3	1:C:2046:LYS:CE	2.52	0.40
1:C:2062:PHE:HZ	1:C:2083:TYR:CE1	2.39	0.40
1:C:2123:GLN:HA	1:C:2126:ARG:HB3	2.03	0.40
1:E:1116:THR:HB	1:E:1119:TRP:CD1	2.57	0.40
1:E:1230:LEU:HD12	1:E:1231:SER:N	2.36	0.40
1:E:1323:TYR:OH	1:E:1722:ILE:HG22	2.21	0.40
1:E:2183:LYS:NZ	1:E:2188:LYS:HD2	2.37	0.40
1:E:2286:ILE:HG13	1:E:2444:LEU:HB2	2.01	0.40
1:A:815:LEU:HA	1:A:1098:PHE:CE1	2.57	0.40
1:A:1116:THR:HB	1:A:1119:TRP:CD1	2.57	0.40
1:A:1161:LEU:HA	1:A:1164:LEU:HB3	2.04	0.40
1:A:1230:LEU:HA	1:A:1233:VAL:HG22	2.02	0.40
1:A:1731:MET:O	1:A:1735:VAL:HG13	2.20	0.40
1:A:1784:LYS:HE3	1:A:1785:TYR:CE2	2.56	0.40
1:A:1976:VAL:O	1:A:1979:LEU:HG	2.20	0.40
1:A:2053:LEU:HD12	1:A:2054:VAL:N	2.37	0.40
1:A:2409:GLN:HA	1:A:2426:PHE:CB	2.52	0.40
1:A:2472:SER:O	1:A:2475:LEU:HG	2.21	0.40
1:C:1015:CYS:HA	1:C:1018:VAL:HG13	2.02	0.40
1:C:1154:LYS:HG2	1:C:1158:PHE:CE2	2.57	0.40
1:C:1306:SER:HA	1:C:1309:LEU:CD2	2.52	0.40
1:C:1457:ARG:HH12	1:C:1458:GLU:HB3	1.85	0.40
1:C:1737:THR:HA	1:C:1740:MET:HG3	2.04	0.40
1:C:1977:TYR:OH	1:C:2035:ARG:HD3	2.22	0.40
1:C:2017:PRO:HA	1:C:2020:PHE:CE2	2.56	0.40
1:C:2066:PRO:C	1:C:2068:VAL:H	2.24	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2138:MET:O	1:C:2142:TRP:CD1	2.74	0.40
1:E:1358:LYS:HD3	1:E:1414:LEU:HD12	2.02	0.40
1:E:1659:LEU:O	1:E:1663:GLU:OE1	2.38	0.40
1:E:1777:GLU:C	1:E:1778:LYS:HD3	2.42	0.40
1:A:1051:CYS:HA	1:A:1081:TYR:CD1	2.57	0.40
1:A:1153:LEU:HD12	1:A:1154:LYS:N	2.37	0.40
1:A:1415:PHE:HZ	1:A:2528:LYS:O	2.03	0.40
1:A:1953:SER:HA	1:A:1957:PRO:CD	2.50	0.40
1:A:1977:TYR:OH	1:A:2035:ARG:HD3	2.22	0.40
1:A:2062:PHE:HZ	1:A:2083:TYR:CE1	2.39	0.40
1:A:2183:LYS:NZ	1:A:2188:LYS:HD2	2.37	0.40
1:A:2315:ILE:HG22	1:A:2344:LEU:HB2	2.03	0.40
1:A:2373:PRO:HB3	1:A:2398:TYR:CE1	2.57	0.40
1:C:1040:LEU:O	1:C:1044:LEU:HG	2.22	0.40
1:C:1045:LEU:O	1:C:1049:LEU:HD23	2.21	0.40
1:C:1066:TRP:HB3	1:C:1068:LYS:H	1.87	0.40
1:C:1082:LEU:HD23	1:C:1082:LEU:HA	1.95	0.40
1:C:1153:LEU:HD12	1:C:1154:LYS:N	2.37	0.40
1:C:1162:PHE:HD1	1:C:1297:PHE:CZ	2.40	0.40
1:C:1204:ARG:O	1:C:1207:LEU:HG	2.22	0.40
1:C:1706:ALA:HA	1:C:1709:VAL:CG2	2.50	0.40
1:C:2166:LYS:HE2	1:C:2500:VAL:CG1	2.46	0.40
1:C:2223:PRO:HG3	1:C:2448:ILE:HD11	2.04	0.40
1:E:1066:TRP:HB3	1:E:1068:LYS:HG2	2.04	0.40
1:E:1161:LEU:HA	1:E:1164:LEU:HB3	2.03	0.40
1:E:1450:GLN:HA	1:E:1504:PHE:HZ	1.87	0.40
1:E:1453:LEU:HA	1:E:1453:LEU:HD23	1.74	0.40
1:E:2096:GLN:HA	1:E:2099:CYS:SG	2.61	0.40

There are no symmetry-related clashes.

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

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	1468/2547 (58%)	1376 (94%)	88 (6%)	4 (0%)	41 77
1	C	1468/2547 (58%)	1376 (94%)	88 (6%)	4 (0%)	41 77
1	E	1468/2547 (58%)	1376 (94%)	88 (6%)	4 (0%)	41 77
All	All	4404/7641 (58%)	4128 (94%)	264 (6%)	12 (0%)	44 77

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	625	TYR
1	C	625	TYR
1	E	625	TYR
1	A	605	VAL
1	C	605	VAL
1	E	605	VAL
1	A	1402	ASP
1	C	1402	ASP
1	E	1402	ASP
1	A	1549	GLY
1	C	1549	GLY
1	E	1549	GLY

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	1117/2246 (50%)	1097 (98%)	20 (2%)	59 77
1	C	1117/2246 (50%)	1097 (98%)	20 (2%)	59 77
1	E	1117/2246 (50%)	1097 (98%)	20 (2%)	59 77
All	All	3351/6738 (50%)	3291 (98%)	60 (2%)	61 77

All (60) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	844	ARG

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Mol	Chain	Res	Type
1	A	967	ARG
1	A	1005	ARG
1	A	1018	VAL
1	A	1050	LEU
1	A	1201	LYS
1	A	1224	LYS
1	A	1294	ARG
1	A	1310	LYS
1	A	1351	ARG
1	A	1403	HIS
1	A	1457	ARG
1	A	1495	MET
1	A	1652	ARG
1	A	1713	LEU
1	A	2055	VAL
1	A	2088	ILE
1	A	2141	VAL
1	A	2196	ILE
1	A	2270	MET
1	C	844	ARG
1	C	967	ARG
1	C	1005	ARG
1	C	1018	VAL
1	C	1050	LEU
1	C	1201	LYS
1	C	1224	LYS
1	C	1294	ARG
1	C	1310	LYS
1	C	1351	ARG
1	C	1403	HIS
1	C	1457	ARG
1	C	1495	MET
1	C	1652	ARG
1	C	1713	LEU
1	C	2055	VAL
1	C	2088	ILE
1	C	2141	VAL
1	C	2196	ILE
1	C	2270	MET
1	E	844	ARG
1	E	967	ARG
1	E	1005	ARG

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Mol	Chain	Res	Type
1	E	1018	VAL
1	E	1050	LEU
1	E	1201	LYS
1	E	1224	LYS
1	E	1294	ARG
1	E	1310	LYS
1	E	1351	ARG
1	E	1403	HIS
1	E	1457	ARG
1	E	1495	MET
1	E	1652	ARG
1	E	1713	LEU
1	E	2055	VAL
1	E	2088	ILE
1	E	2141	VAL
1	E	2196	ILE
1	E	2270	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (24) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1109	GLN
1	A	1304	HIS
1	A	1668	GLN
1	A	2050	GLN
1	A	2058	HIS
1	A	2096	GLN
1	A	2118	ASN
1	A	2151	ASN
1	C	1109	GLN
1	C	1304	HIS
1	C	1668	GLN
1	C	2050	GLN
1	C	2058	HIS
1	C	2096	GLN
1	C	2118	ASN
1	C	2151	ASN
1	C	2391	GLN
1	E	1304	HIS
1	E	1668	GLN
1	E	2050	GLN
1	E	2058	HIS

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Mol	Chain	Res	Type
1	E	2096	GLN
1	E	2118	ASN
1	E	2151	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

3 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	PLX	C	2601	-	51,51,51	1.14	4 (7%)	55,59,59	0.86	1 (1%)
2	PLX	E	2601	-	51,51,51	1.13	4 (7%)	55,59,59	0.86	1 (1%)
2	PLX	A	2601	-	51,51,51	1.13	4 (7%)	55,59,59	0.86	1 (1%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	PLX	C	2601	-	-	12/55/55/55	-
2	PLX	E	2601	-	-	12/55/55/55	-
2	PLX	A	2601	-	-	12/55/55/55	-

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	2601	PLX	O6-C4	-2.64	1.41	1.44
2	E	2601	PLX	O6-C4	-2.64	1.41	1.44
2	A	2601	PLX	O6-C4	-2.61	1.41	1.44
2	C	2601	PLX	C7-C6	2.48	1.56	1.50
2	E	2601	PLX	C7-C6	2.47	1.56	1.50
2	A	2601	PLX	C7-C6	2.47	1.56	1.50
2	C	2601	PLX	P1-O4	2.40	1.69	1.59
2	E	2601	PLX	P1-O4	2.40	1.69	1.59
2	A	2601	PLX	P1-O4	2.39	1.69	1.59
2	C	2601	PLX	C25-C24	2.10	1.55	1.50
2	A	2601	PLX	C25-C24	2.09	1.55	1.50
2	E	2601	PLX	C25-C24	2.08	1.55	1.50

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	2601	PLX	C26-C25-C24	-2.42	107.79	113.38
2	A	2601	PLX	C26-C25-C24	-2.41	107.80	113.38
2	C	2601	PLX	C26-C25-C24	-2.41	107.81	113.38

There are no chirality outliers.

All (36) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	2601	PLX	O7-C6-O6-C4
2	A	2601	PLX	C3-O4-P1-O3
2	A	2601	PLX	C2-O1-P1-O2
2	C	2601	PLX	O7-C6-O6-C4
2	C	2601	PLX	C3-O4-P1-O3
2	C	2601	PLX	C2-O1-P1-O2
2	E	2601	PLX	O7-C6-O6-C4
2	E	2601	PLX	C3-O4-P1-O3
2	E	2601	PLX	C2-O1-P1-O2
2	A	2601	PLX	C3-O4-P1-O1

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Mol	Chain	Res	Type	Atoms
2	C	2601	PLX	C3-O4-P1-O1
2	E	2601	PLX	C3-O4-P1-O1
2	A	2601	PLX	O8-C24-C25-C26
2	C	2601	PLX	O8-C24-C25-C26
2	E	2601	PLX	O8-C24-C25-C26
2	A	2601	PLX	O9-C24-C25-C26
2	C	2601	PLX	O9-C24-C25-C26
2	E	2601	PLX	O9-C24-C25-C26
2	A	2601	PLX	O4-C3-C4-O6
2	C	2601	PLX	O4-C3-C4-O6
2	E	2601	PLX	O4-C3-C4-O6
2	A	2601	PLX	C2-O1-P1-O4
2	C	2601	PLX	C2-O1-P1-O4
2	E	2601	PLX	C2-O1-P1-O4
2	A	2601	PLX	O4-C3-C4-C5
2	C	2601	PLX	O4-C3-C4-C5
2	E	2601	PLX	O4-C3-C4-C5
2	A	2601	PLX	C2-O1-P1-O3
2	C	2601	PLX	C2-O1-P1-O3
2	E	2601	PLX	C2-O1-P1-O3
2	C	2601	PLX	C29-C30-C31-C32
2	A	2601	PLX	C29-C30-C31-C32
2	E	2601	PLX	C29-C30-C31-C32
2	A	2601	PLX	C31-C32-C33-C34
2	C	2601	PLX	C31-C32-C33-C34
2	E	2601	PLX	C31-C32-C33-C34

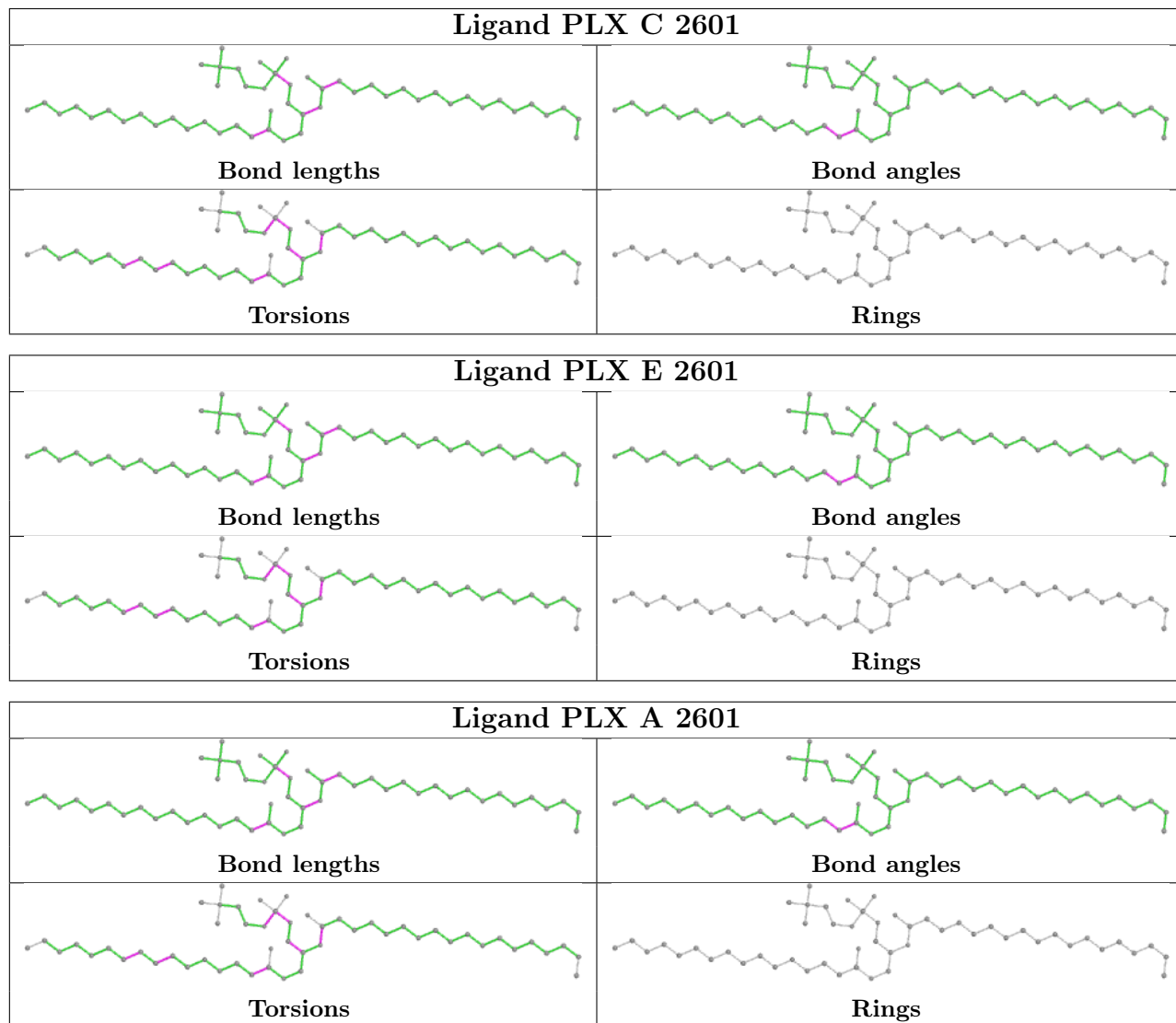
There are no ring outliers.

3 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	2601	PLX	3	0
2	E	2601	PLX	2	0
2	A	2601	PLX	3	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring

in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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

There are no such residues in this entry.

5.8 Polymer linkage issues [\(i\)](#)

There are no chain breaks in this entry.

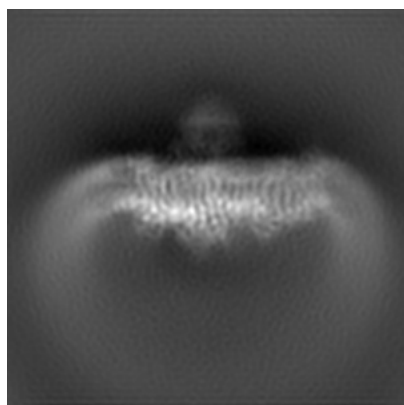
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-32593. These allow visual inspection of the internal detail of the map and identification of artifacts.

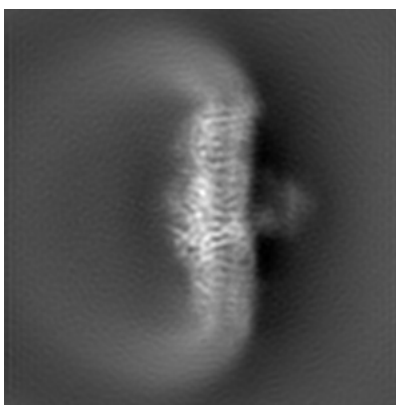
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

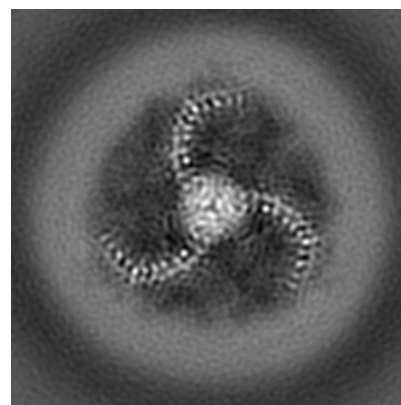
6.1.1 Primary map



X



Y

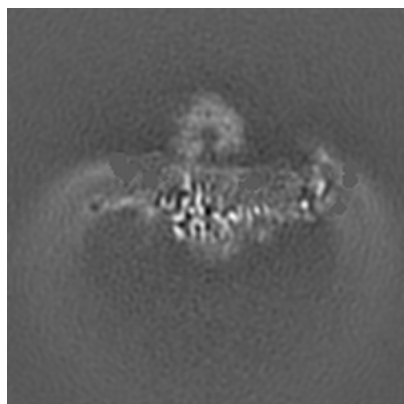


Z

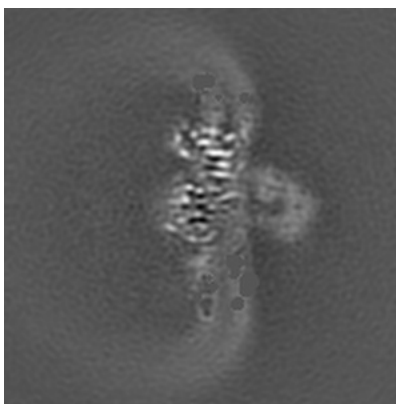
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

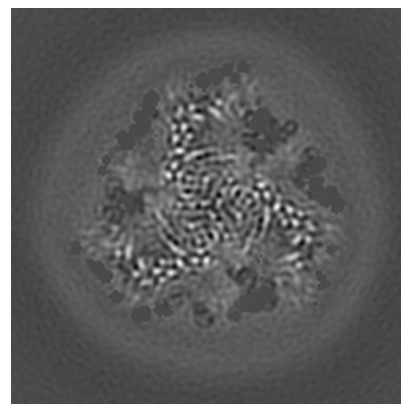
6.2.1 Primary map



X Index: 90



Y Index: 90

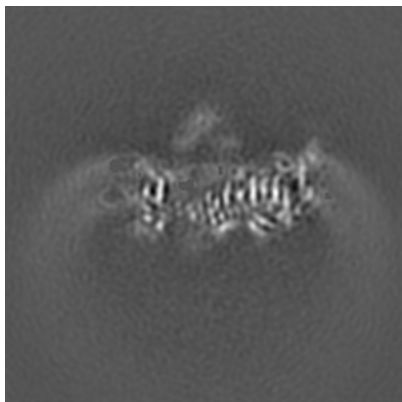


Z Index: 90

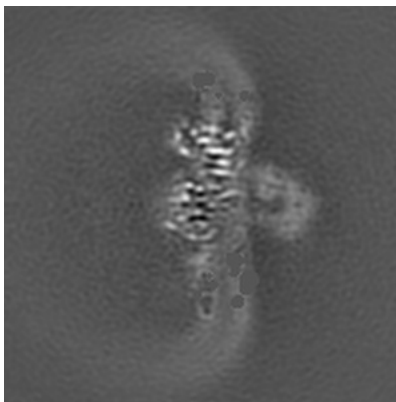
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

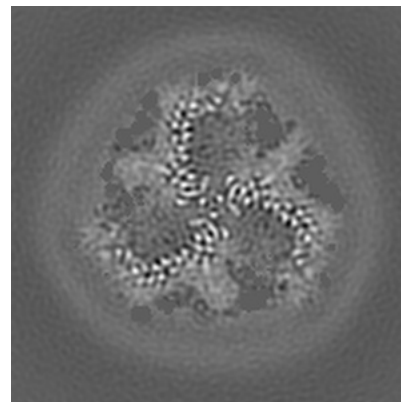
6.3.1 Primary map



X Index: 78



Y Index: 90

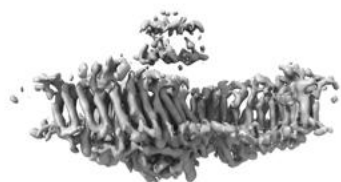


Z Index: 92

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

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.03. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

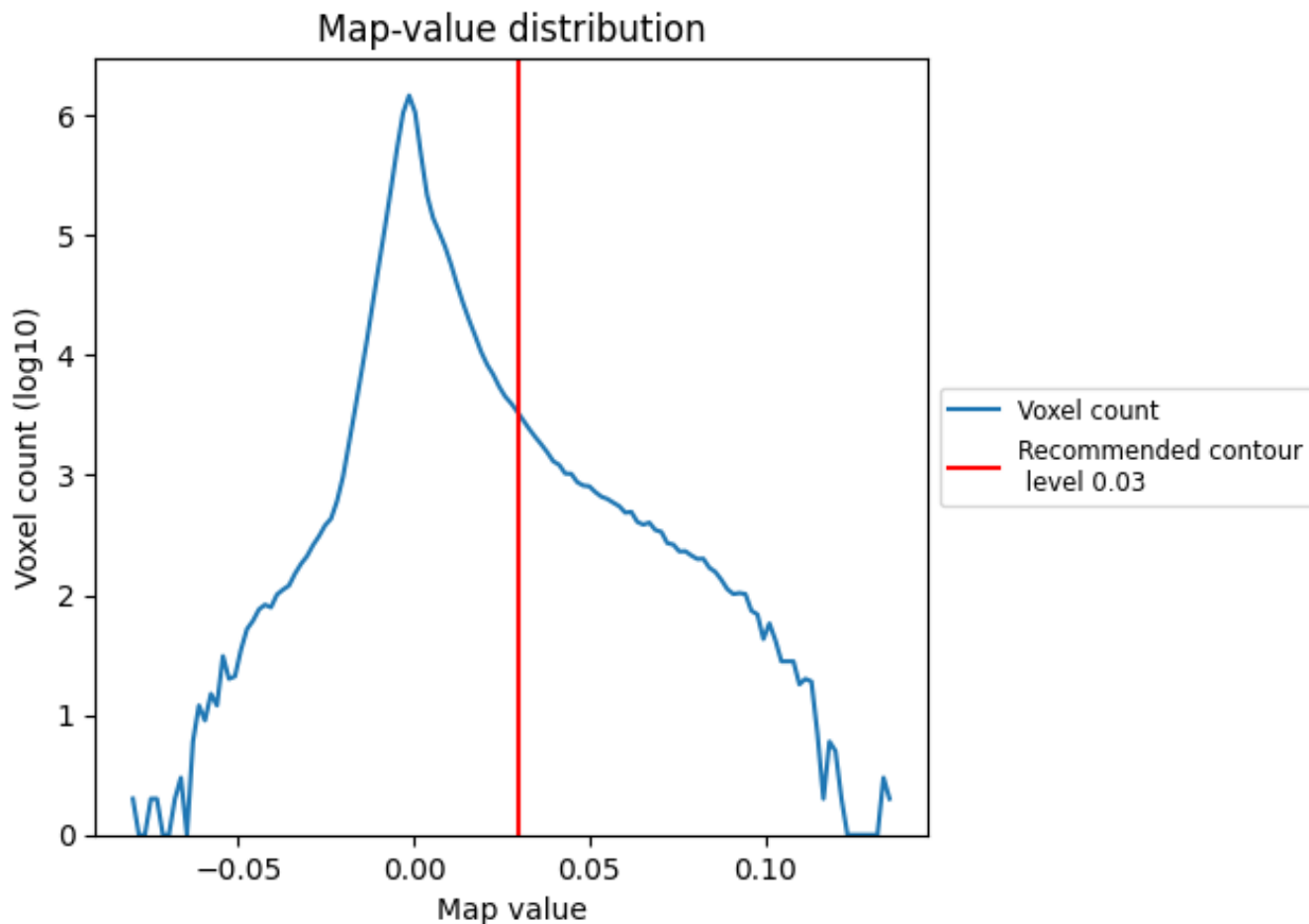
6.5 Mask visualisation

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

7 Map analysis [i](#)

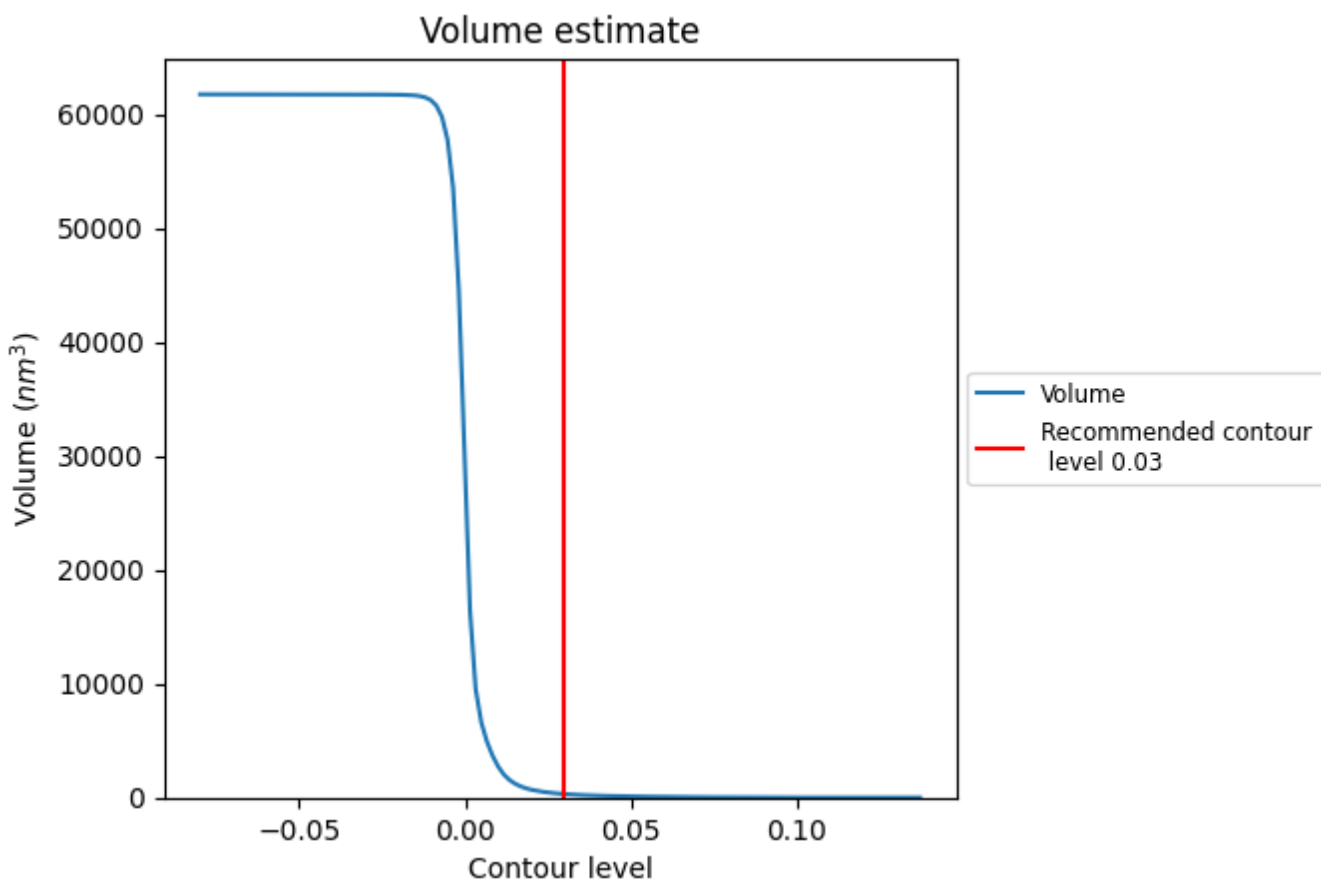
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

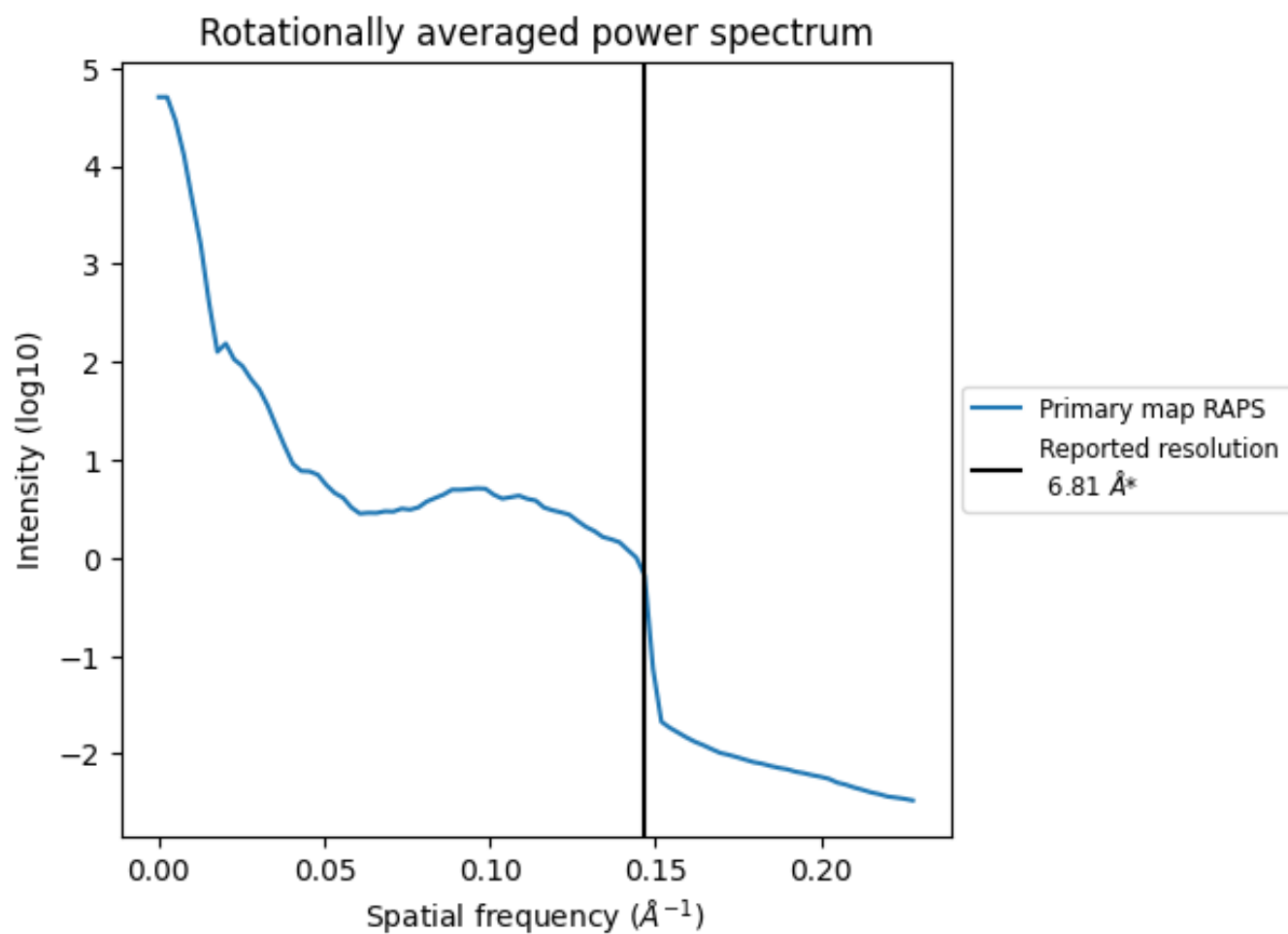
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 309 nm³; this corresponds to an approximate mass of 279 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.147 Å⁻¹

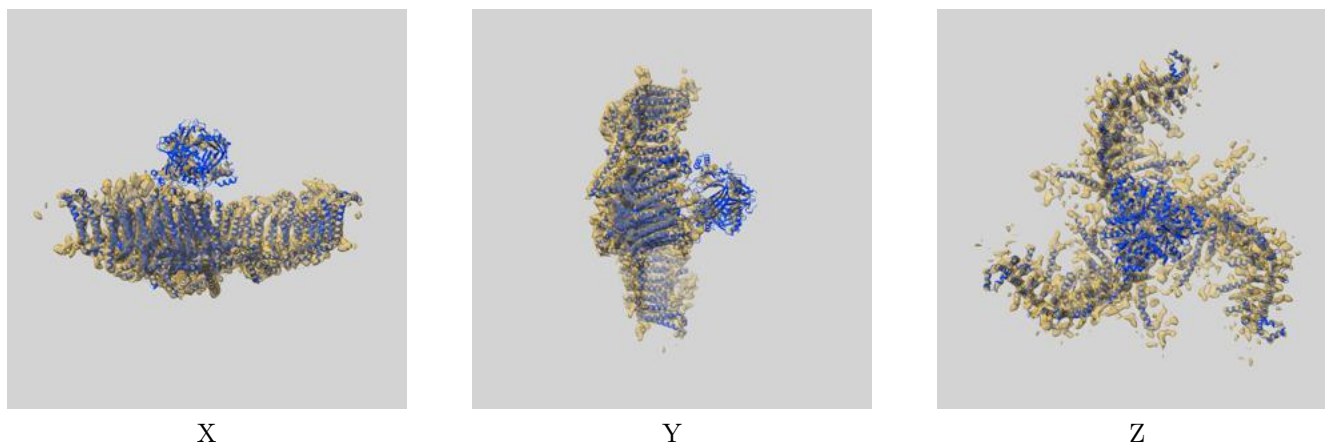
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

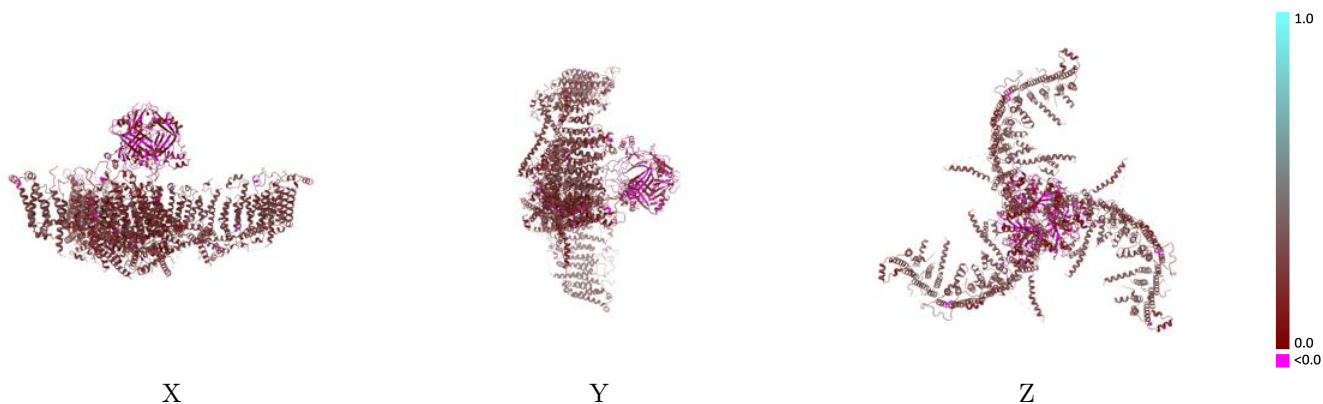
This section contains information regarding the fit between EMDB map EMD-32593 and PDB model 7WLU. Per-residue inclusion information can be found in section [3](#) on page [5](#).

9.1 Map-model overlay [i](#)



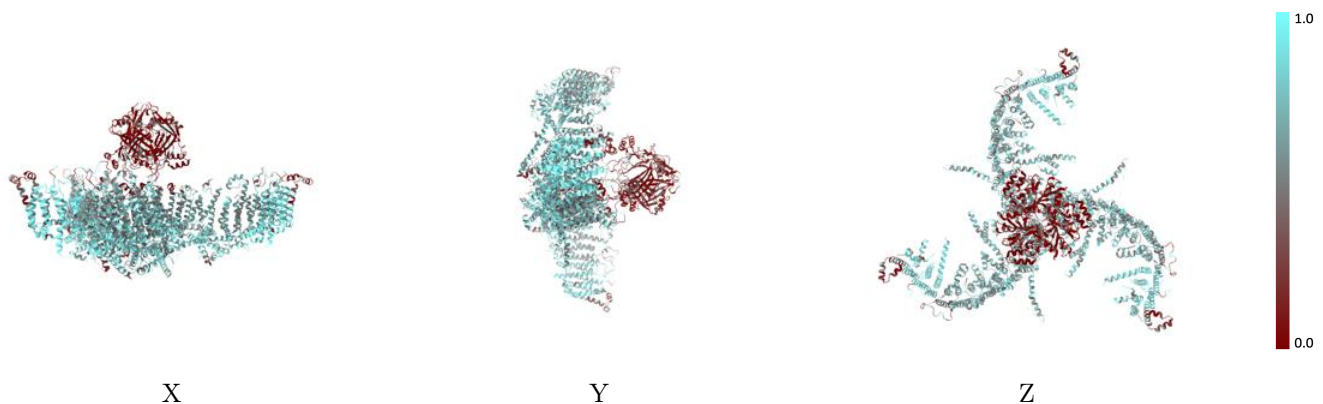
The images above show the 3D surface view of the map at the recommended contour level 0.03 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



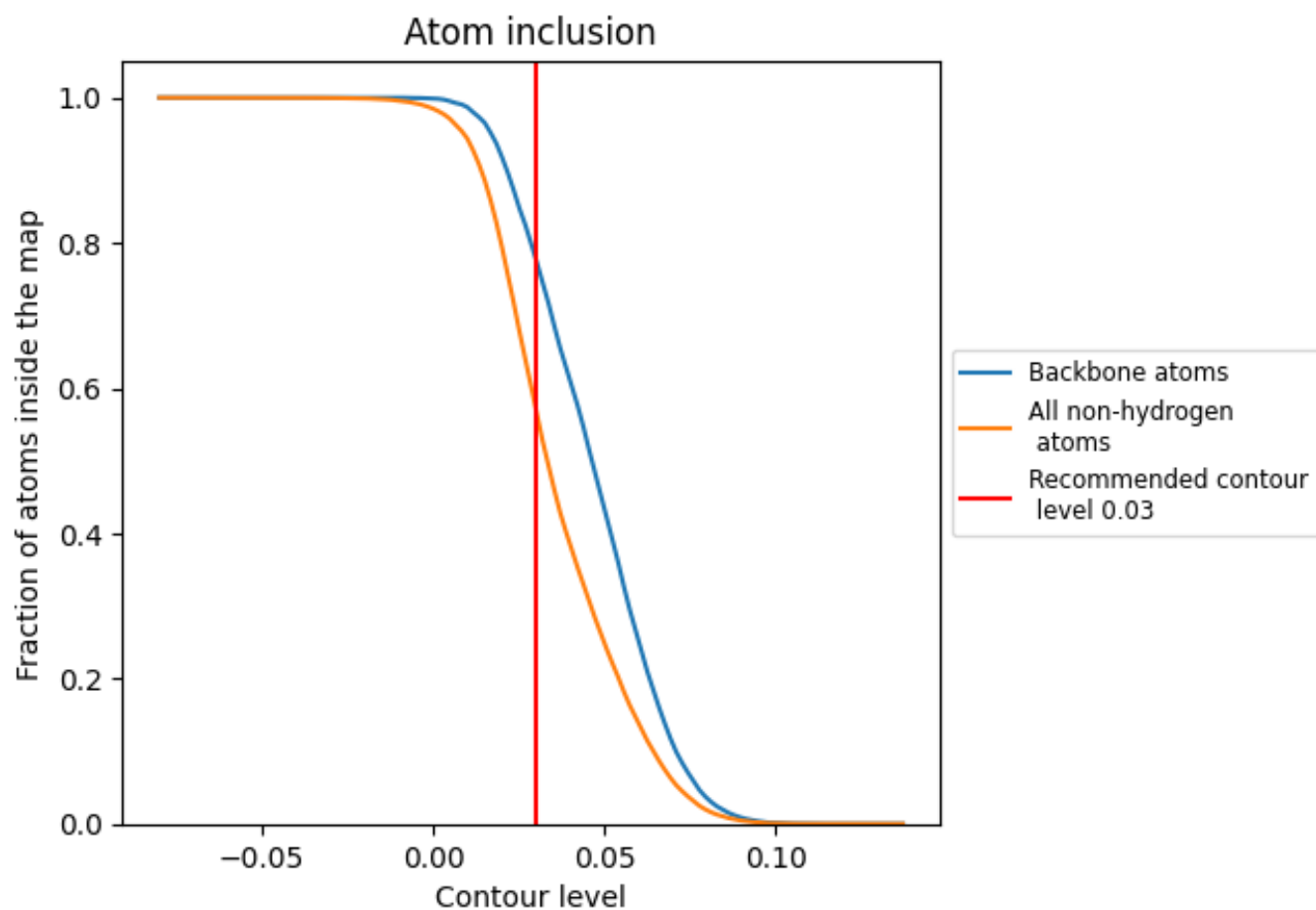
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.03).









9.4 Atom inclusion [i](#)



At the recommended contour level, 78% of all backbone atoms, 57% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.03) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5695	 0.1960
A	 0.5690	 0.1960
C	 0.5715	 0.1980
E	 0.5679	 0.1940

