



Full wwPDB EM Validation Report ⓘ

Nov 19, 2022 – 09:10 AM EST

PDB ID : 3J8H
EMDB ID : EMD-2807
Title : Structure of the rabbit ryanodine receptor RyR1 in complex with FKBP12 at 3.8 Angstrom resolution
Authors : Yan, Z.; Bai, X.; Yan, C.; Wu, J.; Scheres, S.H.W.; Shi, Y.; Yan, N.
Deposited on : 2014-10-26
Resolution : 3.80 Å(reported)

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

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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
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.3

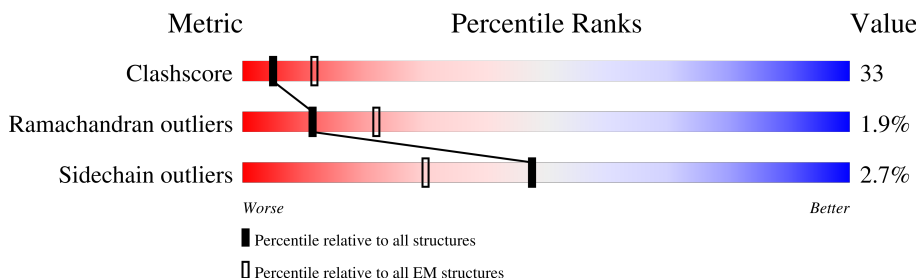
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 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	4599	
1	C	4599	
1	E	4599	
1	G	4599	
2	B	107	
2	D	107	
2	F	107	
2	H	107	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	ZN	A	6000	-	-	X	-
3	ZN	C	6000	-	-	X	-
3	ZN	E	6000	-	-	X	-
3	ZN	G	6000	-	-	X	-

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 111160 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 Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	3660	Total	C	N	O	S	1	0
			26957	17143	4683	4974	157		
1	C	3660	Total	C	N	O	S	1	0
			26957	17143	4683	4974	157		
1	E	3660	Total	C	N	O	S	1	0
			26957	17143	4683	4974	157		
1	G	3660	Total	C	N	O	S	1	0
			26957	17143	4683	4974	157		

- Molecule 2 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1A.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	107	Total	C	N	O	S	0	0
			832	527	146	155	4		
2	D	107	Total	C	N	O	S	0	0
			832	527	146	155	4		
2	F	107	Total	C	N	O	S	0	0
			832	527	146	155	4		
2	H	107	Total	C	N	O	S	0	0
			832	527	146	155	4		

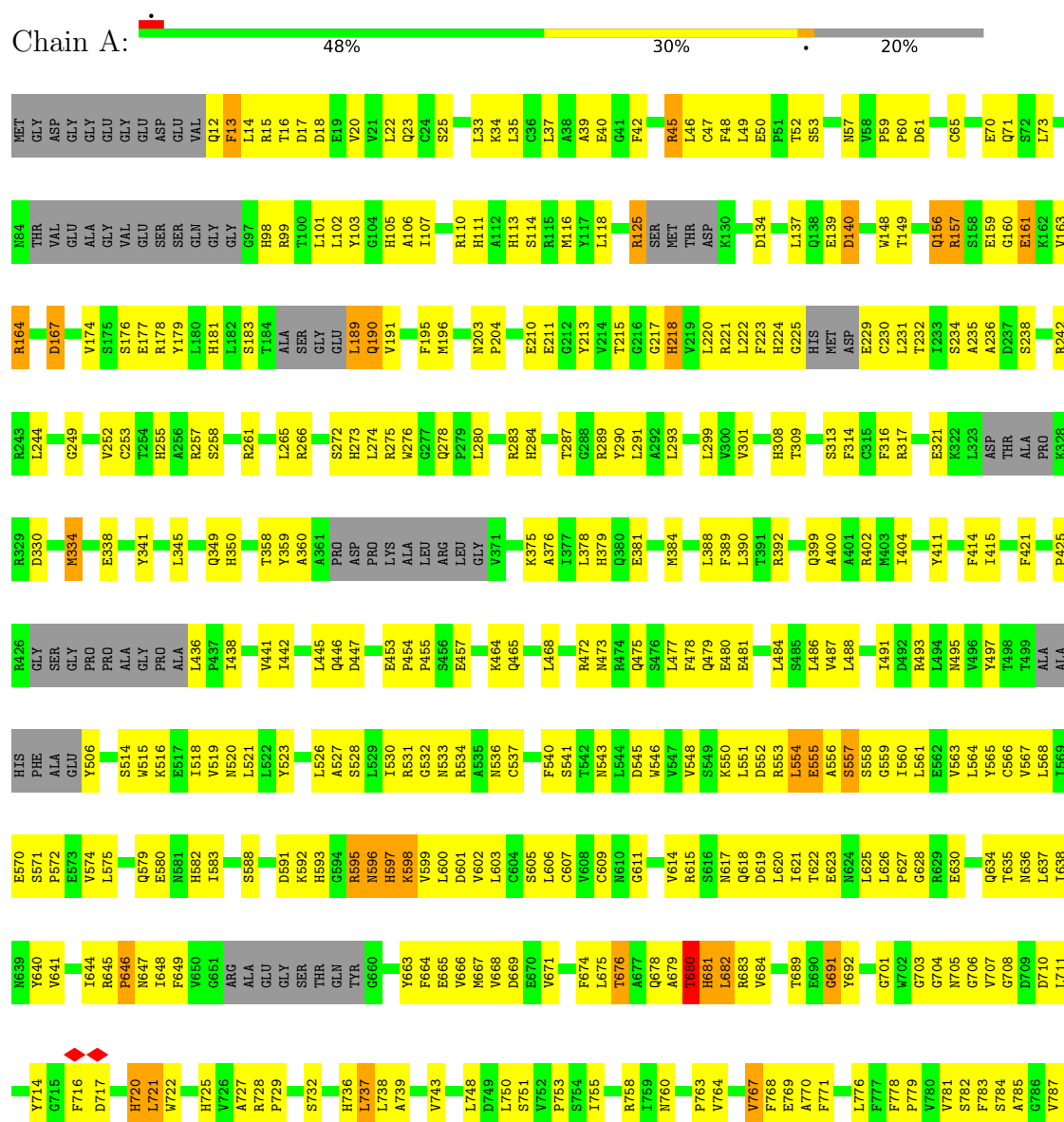
- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
3	A	1	Total	Zn	0
			1	1	
3	C	1	Total	Zn	0
			1	1	
3	E	1	Total	Zn	0
			1	1	
3	G	1	Total	Zn	0
			1	1	

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and 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: Ryanodine receptor 1









Chain C:



R2126	L1969	GLU	G1831	L1762	A1684	P1609	V1542	SER	LYS	ALA	VAL	G1195	Y1122
Q2127	L1969	GLU	E1836	P1763	L1685	M1610	E1543	G1447	ARG	GLU	ASP	P1196	V1123
Y2128	N1972	LYS	F1836	G1764	H1688	H1611	P1544	V1449	PHE	PRO	THR	Q1197	F1124
D2129	F1837	GLU	V1765	V1765	H1689	P1612	N1545	V1449	LEU	PRO	ASP	Q1198	H1127
H2204	F1837	GLU	G1766	G1766	D1690	Q1614	K1547	G1451	PHE	ASP	CYS	G1200	H1128
E2205	F1839	GLU	V1767	T1768	Q1693	V1615	L1548	V1452	LYS	TYR	LEU	G1201	G1129
T2206	V1840	GLU	T1769	T1769	L1694	E1616	F1549	V1453	ALA	GLU	ARG	Q1130	Q1130
V2207	V1841	GLU				T1617	P1550	T1454	LYS	ASN	ARG	R1131	R1131
M2208	L1842	GLU			L1698	G1621	V1552	P1455	LYS	LEU	L1272	G1205	G1205
E2209	L1843	GLU	P1773	P1773	L1698	E1622	A1551		LYS	ARG	A1273	Q1206	Q1206
V2210	L1844	LYS	P1774	P1774	L1698	R1623	F1553	H1462	ALA	ARG	H1274	W1133	W1133
M2211	V1845	GLU	H1775	H1775	A1701	E1623	V1554	D1462	ALA	ARG	R1275	L1134	L1134
V2212	S1846	ASP	H1776	H1776	H1702		L1555	H1464	MET	SER	T1276	G1208	G1208
R2213	T1847	ALA	F1777	F1777	L1703	W1626	P1556	N1465	THR	ALA	W1277	S1210	S1210
V2214	L1848	ALA			L1704				GLN	GLY	G1278	L1211	L1211
L2215	L1849	LYS	P1780	P1780	P1704	N1560	N1560	L1469	PRO	GLY	Q1280	F1213	F1213
G2216	V1850	LYS	G1781	G1781	G1705	V1628	F1561	LYS	PRO	GLY	L1283	F1214	F1214
S2145	L1851	GLU	F1782	F1782	P1706	L1634	I1562	VAL	ALA	GLU	A1215	G1140	G1140
P2146	G1852	GLU	V1783	V1783	R1708	M1635	Q1563	ALA	THR	ALA	I1216	W1143	W1143
V2149	L1853	GLU	A1784	A1784		M1636	E1565		PRO	GLU	G1217	D1147	D1147
E2150	F1854	ALA			Y1712	M1637	LEU	V1472	ALA	GLY	E1285	L1148	L1148
D2151	G1855	PRO	LEU	LEU	D1713	A1638	GLY	T1473	LEU	GLY	M1286	G1218	G1218
I1252	D1856	GLU	PRO	PRO	L1714	L1639	LYS	T1474	PRO	LYS	L1219	Q1220	Q1220
G1253	E1857	GLY	ALA	ALA	L1715	H1640	GLN	T1475	ARG	GLY	E1221	C1151	C1151
L2155	D1858	GLU	ALA	ALA	T1716	I1641	MET	H1476	VAL	GLY	L1291	M1152	M1152
L2156	V1859	LYS	GLY	GLY	L1720	P1642	SER	G1477	PRO	THR	S1292	T1153	T1153
L2159	Q1861	ASP	ALA	ALA	E1721	E1643	A1577	D1478	ASP	PRO	F1223	D1154	D1154
L2162	L1862	GLU	GLU	GLU	S1726	R1646	A1578	V1481	VAL	THR	G1222	L1155	L1155
L2163	L1863	GLU	ALA	ALA	R1727	C1647	M1579	N1481	VAL	THR	F1226	T1156	T1156
S2164	M1865	ALA	PRO	PRO	R1728	M1648	LEU	N1482	PRO	THR	A1227	F1157	F1157
L2165	L1866	GLU	ARG	ARG	R1729	D1649	SER	V1483	ALA	PRO	M1230	H1168	H1168
L2167	E1867	GLU	S1799	S1799	M1730	I1650	A1579	S1486	ASP	GLY	Q1231	T1161	T1161
V2168	P1868	LYS	L1798	L1798	L1653	L1651	M1579		ARG	THR	R1232	V1168	V1168
GLN	VAL	PRO	VAL	VAL	S1732	E1652	F1580	X1493	ASP	PRO	T1235	L1169	L1169
MET	PHE	GLN	THR	THR	E1733	S1654	L1581		CYS	GLN	T1236	MET	MET
GLY	THR	GLU	THR	THR	Y1734	E1655	S1582	D1510	PRO	PRO	W1237	SER	SER
GLU	GLU	GLU	GLU	GLU	I1735	R1656	E1583	L1511	GLY	GLY	F1238	ASP	ASP
GLU	GLU	GLU	GLU	GLU	V1736	L1657	R1584	V1515	ILE	VAL	S1239	SER	SER
GLU	GLU	GLU	GLU	GLU	P1737	L1657	K1585	I1516	ILE	GLU	ALA	GLY	GLY
GLU	GLU	GLU	GLU	GLU	L1738	Q1660	N1586	G1517	LEU	ALA	THR	SER	SER
GLU	GLU	GLU	GLU	GLU	T1739	R1661	P1587	C1518	ASN	GLN	PRO	GLU	GLU
GLU	GLU	GLU	GLU	GLU		F1662	A1588	L1519	THR	PRO	LEU	F1245	F1245
GLU	GLU	GLU	GLU	GLU	T1742		P1589	ASP	THR	VAL	E1246	A1178	A1178
GLU	GLU	GLU	GLU	GLU	R1743	H1665		LEU	THR	ALA	P1247	F1179	F1179
GLU	GLU	GLU	GLU	GLU	P1750	T1666	R1594	ALA	ALA	ARG	V1248	R1180	R1180
GLU	GLU	GLU	GLU	GLU	GLY	L1667	L1595	THR	GLY	GLY	P1249	E1181	E1181
GLU	GLU	GLU	GLU	GLU	ARG		E1596		ASN	GLY	P1250	T1182	T1182
GLU	GLU	GLU	GLU	GLU	LYS	R1671	V1597	G1525	GLY	GLY	E1251	F1183	F1183
GLU	GLU	GLU	GLU	GLU	GLY	A1672	V1598		LYS	PRO	H1252	T1184	T1184
GLU	GLU	GLU	GLU	GLU	GLY	V1673	M1599	M1527	ASP	PRO	P1253		
GLU	GLU	GLU	GLU	GLU	GLY	C1674	L1600	T1528	ALA	ALA	H1254	F1188	F1188
GLU	GLU	GLU	GLU	GLU	ASN	M1601	M1601	F1529	THR	GLY	E1256	L1189	L1189
GLU	GLU	GLU	GLU	GLU	ALA	P1602	P1602	T1530	THR	GLY	W1257	P1190	P1190
GLU	GLU	GLU	GLU	GLU	ARG	M1678			GLY	GLY		V1191	V1191
GLU	GLU	GLU	GLU	GLU	ARG	N1679	S1606	T1538	GLY	LYS	D1261	C1192	C1192
GLU	GLU	GLU	GLU	GLU	ARG	R1680	R1607		GLY	ASN		S1193	S1193
GLU	GLU	GLU	GLU	GLU	HIS	V1681	M1608	Q1541	PRO	LYS	THR	L1194	L1194





GLU	L1283	F1213	F1139	GLN	P979	E880	GLY	L721	I648	E580	S514	SER	GLY	M334	L244
ALA	E1284	F1214	G1140	SER	L984	E799	F800	W722	F649	M581	W515	PRO	PRO	E338	G249
GLU	E1285	A1215	G1141	TRP	L984	R886	R801	H725	V650	H582	K516	ALA	ALA	E338	
GLY	M1286	G1217	W1143	ASP	L988	R889	F802	W726	ARG	I583	I518	GLY	GLY	Y341	V252
LYS	F1288	G1218	D1147	GLN	L989	Q889	L903	A727	ALA	S588	V519	PRO	PRO	Y341	C253
GLU		G1219	V1146	GLY	E990	G890	F804	R728	GLY	D591	N520	ALA	ALA	Y341	T254
THR	L1291	Q1220	C1151	F1075	N991	W891	P805	P729	GLY	H592	L521	ALA	ALA	L345	H255
THR	S1292	E1221	G1152	R1076	G992		P806	W729	THR	H593	Y523	GLY	GLY	L345	A256
ALA	L1293	G1222	M1151	A1077	H993	W896	G807	S732	THR	H593	Y523	GLY	GLY	L345	R257
LYS	P1294	F1223	I1153	E1078		R897	Y808		GLN	H594	GLN	GLY	GLY	L345	S258
GLY	V1295	E1224	D1154	D898	R1000	D898	Y808	H736	TYR	R595	L526	GLY	GLY	L345	
GLY	P1296	F1225	L1155	K1079	V1001	D899	Y808	H737	GLN	R596	A527	GLY	GLY	L345	R261
THR	F1297	F1226	E1156	S1080	A1002	D899	Y808	L737	GLN	H597	A527	GLY	GLY	L345	
PRO	HIS	A1227	T1157	Y1081	Q1003	H904	C811	L738	GLN	H598	L529	GLY	GLY	L345	L265
GLY	GLN		M1158	T1082	GLY	P905	A814	A739	GLY	H599	I530	GLY	GLY	L345	R266
GLY	HIS		P905	R815	TRP	G906	L816	W743	GLY	D601	L600	GLY	GLY	L345	
THR	PHE	M1230	L907	P817	TYR	R908	R818	L748	GLY	L602	G532	GLY	GLY	L345	
THR	ARG	Q1231	R1087	W088	SER	N909	R818	S749	GLY	L603	M633	GLY	GLY	L345	
PRO	ARG	R1232	Y1089	Y1089	SER	R909	R818	W749	GLY	L603	M633	GLY	GLY	L345	
GLN	CYS		Y1089	Y1089	SER	R909	R818	S749	GLY	L603	M633	GLY	GLY	L345	
PRO	THR	T1236	V1168	Y1089	ALA	R910	R821	W749	GLY	L603	M633	GLY	GLY	L345	S272
GLY	ALA	T1236	L1169	E1091	VAL	H911	R822	W749	GLY	L603	M633	GLY	GLY	L345	H273
VAL	GLY	W1237	MET	E1091	VAL	R910	R822	W749	GLY	L603	M633	GLY	GLY	L345	L274
GLY	GLY	F1238	SER	F1092	GLN	S912	R823	W749	GLY	L603	M633	GLY	GLY	L345	R275
ALA	ALA	E1093	ASP	E1093	ASP	S912	R824	W749	GLY	L603	M633	GLY	GLY	L345	W276
ALA	THR	S1239	SER	A1094	ILE	E915	R825	W749	GLY	L603	M633	GLY	GLY	L345	Q277
PRO	PRO	K1240	GLY	Y1095	PRO	P916	R826	W749	GLY	L603	M633	GLY	GLY	L345	P279
LEU	LEU		SER	T1095	ALA	E917	R827	W749	GLY	L603	M633	GLY	GLY	L345	L280
VAL	ALA	F1246	GLU	T1097	R1016	R918	R828	W749	GLY	L603	M633	GLY	GLY	L345	
ARG	PRO	E1246	THR	G1098	R1017	R918	R829	W749	GLY	L603	M633	GLY	GLY	L345	R283
ALA	ALA	P1247	THR	E1099	R1017	R918	R829	W749	GLY	L603	M633	GLY	GLY	L345	H284
ALA	GLY		F1178	E1099	N1018	G926	R830	W749	GLY	L603	M633	GLY	GLY	L345	
GLY	GLY		F1179	M1100	P1019	R930	R831	W749	GLY	L603	M633	GLY	GLY	L345	T287
ASN	LEU	E1251	R1180	R1101	R1020	R930	R832	W749	GLY	L603	M633	GLY	GLY	L345	C288
GLU	GLN	F1252	E1181	V1102	L1021	R930	R833	W749	GLY	L603	M633	GLY	GLY	L345	R289
LYS	PRO	P1253	L1182	E1105	P1022	C937	R834	W749	GLY	L603	M633	GLY	GLY	L345	Y290
ASP	PRO	H1254	E1183	A1105	P1023	C937	R835	W749	GLY	L603	M633	GLY	GLY	L345	L291
ALA	ALA	E1255	I1184	ALA	Y1024	H941	R836	W749	GLY	L603	M633	GLY	GLY	L345	A292
THR	ASP	E1256	E1184	ALA	Y1024	H941	R836	W749	GLY	L603	M633	GLY	GLY	L345	L293
GLU	GLU	V1257	F1188	R1110	L1027	H941	R836	W749	GLY	L603	M633	GLY	GLY	L345	
GLU	GLU		L1189	R1111	L1027	H941	R836	W749	GLY	L603	M633	GLY	GLY	L345	L299
LYS	ALA	D1261	F1190	P1111	L1027	H941	R836	W749	GLY	L603	M633	GLY	GLY	L345	V300
ASN	ARG	GLY	E1191	GLY	A1042	H941	R836	W749	GLY	L603	M633	GLY	GLY	L345	V301
LYS	ALA	THR	F1191	GLY	V1043	GLY	R842	W749	GLY	L603	M633	GLY	GLY	L345	H308
LYS	ALA	G1192	R1044	ASP	V1043	GLY	R842	W749	GLY	L603	M633	GLY	GLY	L345	
LYS	ALA	G1193	L1044	ASP	T1045	ASP	R843	W749	GLY	L603	M633	GLY	GLY	L345	S313
ARG	GLU	ASP	L1194	ASN	L1046	ASN	R844	W749	GLY	L603	M633	GLY	GLY	L345	F314
GLY	PRO	G1195	L1122	LEU	L1047	LEU	C845	W749	GLY	L603	M633	GLY	GLY	L345	C315
THR	THR	L1122	G1195	LEU	L1047	LEU	C845	W749	GLY	L603	M633	GLY	GLY	L345	R317
ASP	PRO	F1196	G1195	LEU	L1047	LEU	C845	W749	GLY	L603	M633	GLY	GLY	L345	
PRO	PRO	G1197	F1196	LEU	L1047	LEU	C845	W749	GLY	L603	M633	GLY	GLY	L345	
PRO	ASP	Q1198	G1197	LEU	L1047	LEU	C845	W749	GLY	L603	M633	GLY	GLY	L345	
PHE	THR	TYR	F1199	LEU	G1050	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	
LYS	ALA	GLU	G1200	LEU	Y1051	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	
ALA	ARG	ARG	G1200	LEU	Y1051	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	
LYS	ASN	L1272	H1201	PRO	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	E321
LYS	LEU	A1273	G1201	ASP	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	V322
LYS	ARG	H1274	G1201	GLN	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	L323
ALA	ARG	H1274	G1201	GLN	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	ASP
ALA	ARG	R1275	Q1206	PRO	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	THR
MET	SER	T1276	D1207	GLU	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	ALA
MET	ALA	W1277	G1208	SER	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	ALA
THR	GLY	L1278	S1209	GLN	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	PRO
GLN	GLY	G1278	G1209	GLN	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	K328
GLN	GLY	S1279	L1210	VAL	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	R329
THR	GLY	L1211	G1211	GLY	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	
PRO	GLY	Q1280	R1212	ASN	P1055	THR	R845	W749	GLY	L603	M633	GLY	GLY	L345	D330

L2376	L2377	L2380	A2383	L2384	L2385	L2386	SER	GLN	THR	V2149	LYS	L1849	P1780	G1705	L1634	N1560	S1469	ALA
E2449	E2452	E2453	R2454	E2455	L2456	L2457	L2458	GLY	GLU	E2150	GLU	L1850	C1781	P1706	L1635	V1561	LYS	THR
R2459	R2462	R2463	R2464	R2465	R2466	R2467	R2468	GLY	GLU	D2151	GLU	G1852	V1783	L1707	M1636	Q1562	ALA	PRO
L2469	L2472	L2473	L2474	L2475	L2476	L2477	L2478	GLY	ARG	T2152	GLU	L1853	A1784	R1708	M1637	Q1563	ALA	ALA
L2479	L2482	L2483	L2484	L2485	L2486	L2487	L2488	GLY	PRO	L2155	ALA	F1854	ALA	Y1712	A1638	E1565	Y1472	PRO
L2489	L2492	L2493	L2494	L2495	L2496	L2497	L2498	GLY	PRO	L2156	PRO	G1855	LEU	D1713	L1639	LEU	T1473	ARG
L2499	L2502	L2503	L2504	L2505	L2506	L2507	L2508	GLY	GLU	K2227	GLU	D1856	PRO	L1714	H1640	GLY	T1474	LEU
L2509	L2512	L2513	L2514	L2515	L2516	L2517	L2518	GLY	GLU	L2159	GLU	E1857	ALA	L1715	L1641	LYS	T1475	PRO
L2519	L2522	L2523	L2524	L2525	L2526	L2527	L2528	GLY	GLU	T2230	LYS	D1858	GLY	L1716	P1642	GLN	M1476	HIS
L2529	L2532	L2533	L2534	L2535	L2536	L2537	L2538	GLY	GLU	L2162	GLU	V1859	VAL	L1720	E1643	LYS	G1477	ASP
L2539	L2542	L2543	L2544	L2545	L2546	L2547	L2548	GLY	PRO	R2263	ASP	Q1861	VAL	E1721	R1646	ASN	D1478	VAL
L2549	L2552	L2553	L2554	L2555	L2556	L2557	L2558	GLY	ALA	S2164	ALA	I1862	GLU	Q1647	C1647	ILE	E1479	VAL
L2559	L2562	L2563	L2564	L2565	L2566	L2567	L2568	GLY	GLU	L2166	GLU	L1863	ALA	Q1480	M1648	MET	Q1480	PRO
L2569	L2572	L2573	L2574	L2575	L2576	L2577	L2578	GLY	GLU	L2167	GLU	M1864	PRO	R1727	D1649	LEU	G1481	ALA
L2579	L2582	L2583	L2584	L2585	L2586	L2587	L2588	GLY	GLU	ASP	GLU	M1865	ALA	R1728	I1650	SER	M1482	ASN
L2589	L2592	L2593	L2594	L2595	L2596	L2597	L2598	GLY	PRO	G1925	GLN	I1866	ARG	S1729	L1651	A1577	V1483	ARG
L2599	L2602	L2603	L2604	L2605	L2606	L2607	L2608	GLY	GLN	P1932	GLN	E1867	ARG	M1730	E1652	A1578	S1486	ASP
L2609	L2612	L2613	L2614	L2615	L2616	L2617	L2618	GLY	GLU	GLY	S2093	F1868	L1731	M1579	M1579	ASP	X1493	ASP
L2619	L2622	L2623	L2624	L2625	L2626	L2627	L2628	GLY	GLU	L1937	L2094	P1800	E1732	E1732	S1684	L1580	X1493	PRO
L2629	L2632	L2633	L2634	L2635	L2636	L2637	L2638	GLY	GLU	Q1940	Q2095	A1801	P1803	Y1734	E1655	L1581	D1510	GLU
L2639	L2642	L2643	L2644	L2645	L2646	L2647	L2648	GLY	GLU	W2178	E2096	PHE	I1802	I1735	R1656	E1583	D1510	ILE
L2649	L2652	L2653	L2654	L2655	L2656	L2657	L2658	GLY	GLU	L2182	L2098	THR	P1803	Y1736	R1656	E1583	D1510	ILE
L2659	L2662	L2663	L2664	L2665	L2666	L2667	L2668	GLY	GLU	L2185	L2099	GLU	E1805	P1737	R1656	E1583	D1510	ILE
L2669	L2672	L2673	L2674	L2675	L2676	L2677	L2678	GLY	GLU	L2188	L2100	GLU	A1806	L1738	R1662	N1586	G1517	THR
L2679	L2682	L2683	L2684	L2685	L2686	L2687	L2688	GLY	GLU	L2191	R2104	GLU	R1807	T1739	H1663	A1588	G1518	THR
L2689	L2692	L2693	L2694	L2695	L2696	L2697	L2698	GLY	GLU	L2192	Q1952	GLU	D1869	T1742	S1664	P1589	V1520	T1432
L2699	L2702	L2703	L2704	L2705	L2706	L2707	L2708	GLY	GLU	F2191	Q2112	GLU	K1810	R1743	S1664	P1589	ASP	T1432
L2709	L2712	L2713	L2714	L2715	L2716	L2717	L2718	GLY	GLU	L2192	Q2112	GLU	K1810	R1743	S1664	P1589	ASP	T1432
L2719	L2722	L2723	L2724	L2725	L2726	L2727	L2728	GLY	GLU	L2196	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2729	L2732	L2733	L2734	L2735	L2736	L2737	L2738	GLY	GLU	L2197	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2739	L2742	L2743	L2744	L2745	L2746	L2747	L2748	GLY	GLU	L2198	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2749	L2752	L2753	L2754	L2755	L2756	L2757	L2758	GLY	GLU	L2199	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2759	L2762	L2763	L2764	L2765	L2766	L2767	L2768	GLY	GLU	L2201	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2769	L2772	L2773	L2774	L2775	L2776	L2777	L2778	GLY	GLU	L2202	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2779	L2782	L2783	L2784	L2785	L2786	L2787	L2788	GLY	GLU	L2203	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2789	L2792	L2793	L2794	L2795	L2796	L2797	L2798	GLY	GLU	L2204	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2799	L2802	L2803	L2804	L2805	L2806	L2807	L2808	GLY	GLU	L2205	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2809	L2812	L2813	L2814	L2815	L2816	L2817	L2818	GLY	GLU	L2206	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2819	L2822	L2823	L2824	L2825	L2826	L2827	L2828	GLY	GLU	L2207	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2829	L2832	L2833	L2834	L2835	L2836	L2837	L2838	GLY	GLU	L2208	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2839	L2842	L2843	L2844	L2845	L2846	L2847	L2848	GLY	GLU	L2209	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2849	L2852	L2853	L2854	L2855	L2856	L2857	L2858	GLY	GLU	L2210	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2859	L2862	L2863	L2864	L2865	L2866	L2867	L2868	GLY	GLU	L2211	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2869	L2872	L2873	L2874	L2875	L2876	L2877	L2878	GLY	GLU	L2212	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2879	L2882	L2883	L2884	L2885	L2886	L2887	L2888	GLY	GLU	L2213	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2889	L2892	L2893	L2894	L2895	L2896	L2897	L2898	GLY	GLU	L2214	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2899	L2902	L2903	L2904	L2905	L2906	L2907	L2908	GLY	GLU	L2215	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2909	L2912	L2913	L2914	L2915	L2916	L2917	L2918	GLY	GLU	L2216	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2919	L2922	L2923	L2924	L2925	L2926	L2927	L2928	GLY	GLU	L2217	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2929	L2932	L2933	L2934	L2935	L2936	L2937	L2938	GLY	GLU	L2218	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2939	L2942	L2943	L2944	L2945	L2946	L2947	L2948	GLY	GLU	L2219	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2949	L2952	L2953	L2954	L2955	L2956	L2957	L2958	GLY	GLU	L2220	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2959	L2962	L2963	L2964	L2965	L2966	L2967	L2968	GLY	GLU	L2221	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2969	L2972	L2973	L2974	L2975	L2976	L2977	L2978	GLY	GLU	L2222	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2979	L2982	L2983	L2984	L2985	L2986	L2987	L2988	GLY	GLU	L2223	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2989	L2992	L2993	L2994	L2995	L2996	L2997	L2998	GLY	GLU	L2224	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L2999	L3002	L3003	L3004	L3005	L3006	L3007	L3008	GLY	GLU	L2225	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3009	L3012	L3013	L3014	L3015	L3016	L3017	L3018	GLY	GLU	L2226	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3019	L3022	L3023	L3024	L3025	L3026	L3027	L3028	GLY	GLU	L2227	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3029	L3032	L3033	L3034	L3035	L3036	L3037	L3038	GLY	GLU	L2228	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3039	L3042	L3043	L3044	L3045	L3046	L3047	L3048	GLY	GLU	L2229	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3049	L3052	L3053	L3054	L3055	L3056	L3057	L3058	GLY	GLU	L2230	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3059	L3062	L3063	L3064	L3065	L3066	L3067	L3068	GLY	GLU	L2231	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3069	L3072	L3073	L3074	L3075	L3076	L3077	L3078	GLY	GLU	L2232	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3079	L3082	L3083	L3084	L3085	L3086	L3087	L3088	GLY	GLU	L2233	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3089	L3092	L3093	L3094	L3095	L3096	L3097	L3098	GLY	GLU	L2234	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3099	L3102	L3103	L3104	L3105	L3106	L3107	L3108	GLY	GLU	L2235	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3109	L3112	L3113	L3114	L3115	L3116	L3117	L3118	GLY	GLU	L2236	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3119	L3122	L3123	L3124	L3125	L3126	L3127	L3128	GLY	GLU	L2237	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3129	L3132	L3133	L3134	L3135	L3136	L3137	L3138	GLY	GLU	L2238	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3139	L3142	L3143	L3144	L3145	L3146	L3147	L3148	GLY	GLU	L2239	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3149	L3152	L3153	L3154	L3155	L3156	L3157	L3158	GLY	GLU	L2240	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3159	L3162	L3163	L3164	L3165	L3166	L3167	L3168	GLY	GLU	L2241	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3169	L3172	L3173	L3174	L3175	L3176	L3177	L3178	GLY	GLU	L2242	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432
L3179	L3182	L3183	L3184	L3185	L3186	L3187	L3188	GLY	GLU	L2243	V1965	GLU	R1813	P1750	S1664	P1589	ASP	T1432

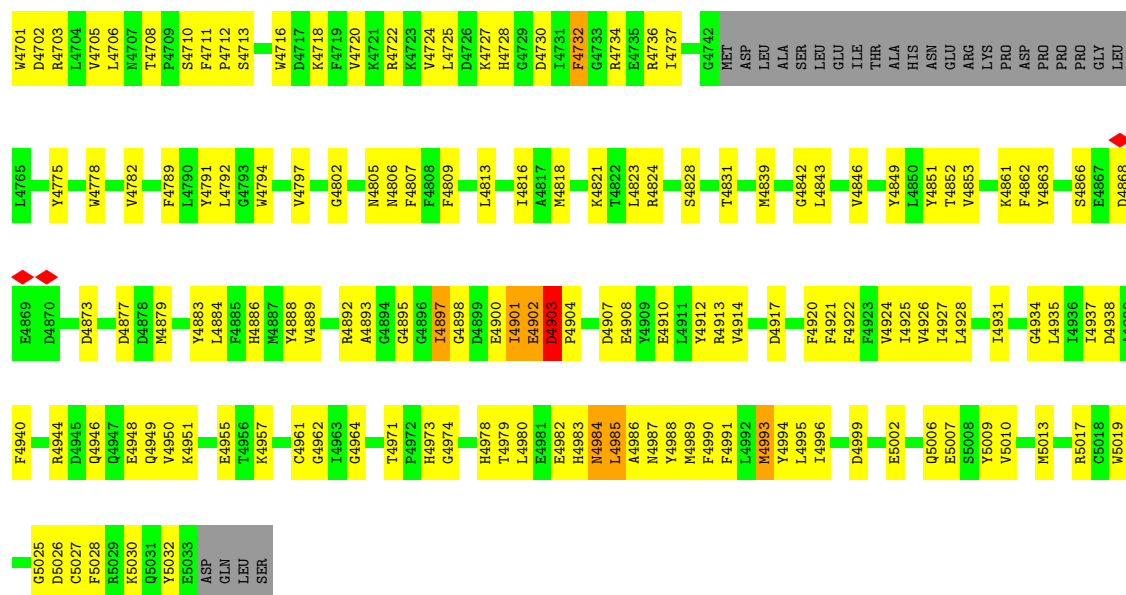












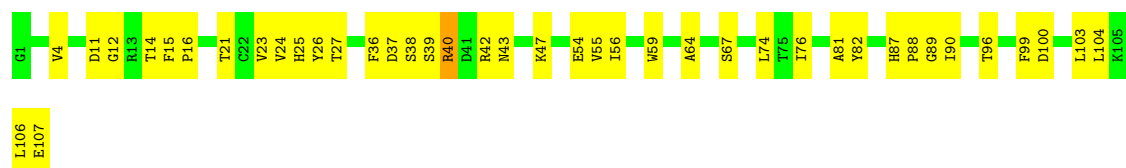
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

Chain B: 60% 39%



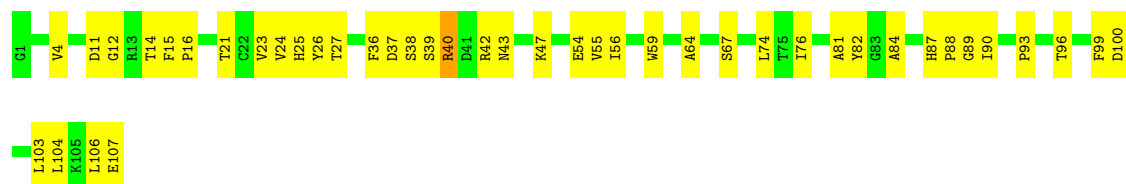
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

Chain D: 62% 37%



• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

Chain F: 60% 39%



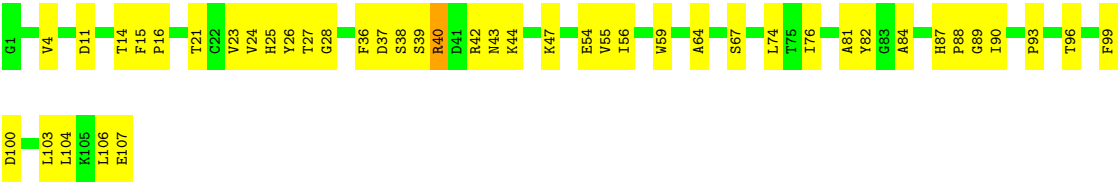
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

Chain H:

59%

40%

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4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	65872	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Contrast transfer function parameters were estimated using CTFFIND3	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	1900	Depositor
Maximum defocus (nm)	5600	Depositor
Magnification	104748	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.336	Depositor
Minimum map value	-0.183	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.016	Depositor
Recommended contour level	0.04	Depositor
Map size (Å)	482.40002, 482.40002, 482.40002	wwPDB
Map dimensions	360, 360, 360	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.34, 1.34, 1.34	Depositor

5 Model quality

5.1 Standard geometry

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

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	0.33	2/24616 (0.0%)	0.59	19/33295 (0.1%)
1	C	0.33	2/24616 (0.0%)	0.59	19/33295 (0.1%)
1	E	0.33	2/24616 (0.0%)	0.59	19/33295 (0.1%)
1	G	0.33	2/24616 (0.0%)	0.59	19/33295 (0.1%)
2	B	0.26	0/851	0.45	0/1146
2	D	0.26	0/851	0.45	0/1146
2	F	0.26	0/851	0.45	0/1146
2	H	0.26	0/851	0.45	0/1146
All	All	0.33	8/101868 (0.0%)	0.59	76/137764 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3
1	C	0	3
1	E	0	3
1	G	0	3
All	All	0	12

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1544	PRO	N-CD	5.20	1.55	1.47
1	C	1544	PRO	N-CD	5.20	1.55	1.47
1	E	1544	PRO	N-CD	5.20	1.55	1.47
1	G	1544	PRO	N-CD	5.20	1.55	1.47
1	A	1763	PRO	N-CD	5.05	1.54	1.47
1	C	1763	PRO	N-CD	5.05	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	1763	PRO	N-CD	5.05	1.54	1.47
1	G	1763	PRO	N-CD	5.05	1.54	1.47

All (76) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1764	GLY	N-CA-C	14.38	149.05	113.10
1	C	1764	GLY	N-CA-C	14.38	149.05	113.10
1	E	1764	GLY	N-CA-C	14.38	149.05	113.10
1	G	1764	GLY	N-CA-C	14.38	149.05	113.10
1	A	1765	VAL	N-CA-CB	-9.67	90.23	111.50
1	C	1765	VAL	N-CA-CB	-9.67	90.23	111.50
1	E	1765	VAL	N-CA-CB	-9.67	90.23	111.50
1	G	1765	VAL	N-CA-CB	-9.67	90.23	111.50
1	A	805	PRO	CA-N-CD	-8.68	99.35	111.50
1	C	805	PRO	CA-N-CD	-8.68	99.35	111.50
1	E	805	PRO	CA-N-CD	-8.68	99.35	111.50
1	G	805	PRO	CA-N-CD	-8.68	99.35	111.50
1	A	680	THR	N-CA-C	-7.89	89.69	111.00
1	C	680	THR	N-CA-C	-7.89	89.69	111.00
1	E	680	THR	N-CA-C	-7.89	89.69	111.00
1	G	680	THR	N-CA-C	-7.89	89.69	111.00
1	A	4993	MET	CA-CB-CG	6.57	124.46	113.30
1	C	4993	MET	CA-CB-CG	6.57	124.46	113.30
1	E	4993	MET	CA-CB-CG	6.57	124.46	113.30
1	G	4993	MET	CA-CB-CG	6.57	124.46	113.30
1	A	3971	GLY	C-N-CD	6.26	141.55	128.40
1	C	3971	GLY	C-N-CD	6.26	141.55	128.40
1	E	3971	GLY	C-N-CD	6.26	141.55	128.40
1	G	3971	GLY	C-N-CD	6.26	141.55	128.40
1	A	4691	GLN	C-N-CD	6.20	141.42	128.40
1	C	4691	GLN	C-N-CD	6.20	141.42	128.40
1	E	4691	GLN	C-N-CD	6.20	141.42	128.40
1	G	4691	GLN	C-N-CD	6.20	141.42	128.40
1	A	804	PRO	C-N-CD	-6.13	107.12	120.60
1	C	804	PRO	C-N-CD	-6.13	107.12	120.60
1	E	804	PRO	C-N-CD	-6.13	107.12	120.60
1	G	804	PRO	C-N-CD	-6.13	107.12	120.60
1	A	4903	ASP	C-N-CD	6.04	141.09	128.40
1	C	4903	ASP	C-N-CD	6.04	141.09	128.40
1	E	4903	ASP	C-N-CD	6.04	141.09	128.40
1	G	4903	ASP	C-N-CD	6.04	141.09	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1765	VAL	N-CA-C	5.94	127.04	111.00
1	C	1765	VAL	N-CA-C	5.94	127.04	111.00
1	E	1765	VAL	N-CA-C	5.94	127.04	111.00
1	G	1765	VAL	N-CA-C	5.94	127.04	111.00
1	A	2226	PRO	N-CA-CB	5.89	110.37	103.30
1	C	2226	PRO	N-CA-CB	5.89	110.37	103.30
1	E	2226	PRO	N-CA-CB	5.89	110.37	103.30
1	G	2226	PRO	N-CA-CB	5.89	110.37	103.30
1	A	2529	PRO	N-CA-CB	5.82	110.28	103.30
1	C	2529	PRO	N-CA-CB	5.82	110.28	103.30
1	E	2529	PRO	N-CA-CB	5.82	110.28	103.30
1	G	2529	PRO	N-CA-CB	5.82	110.28	103.30
1	A	1762	LEU	C-N-CD	5.69	140.34	128.40
1	C	1762	LEU	C-N-CD	5.69	140.34	128.40
1	E	1762	LEU	C-N-CD	5.69	140.34	128.40
1	G	1762	LEU	C-N-CD	5.69	140.34	128.40
1	A	1543	GLU	C-N-CD	5.65	140.27	128.40
1	C	1543	GLU	C-N-CD	5.65	140.27	128.40
1	E	1543	GLU	C-N-CD	5.65	140.27	128.40
1	G	1543	GLU	C-N-CD	5.65	140.27	128.40
1	A	1510	ASP	CB-CG-OD2	5.21	122.99	118.30
1	C	1510	ASP	CB-CG-OD2	5.21	122.99	118.30
1	E	1510	ASP	CB-CG-OD2	5.21	122.99	118.30
1	G	1510	ASP	CB-CG-OD2	5.21	122.99	118.30
1	A	140	ASP	CB-CG-OD2	5.20	122.98	118.30
1	C	140	ASP	CB-CG-OD2	5.20	122.98	118.30
1	E	140	ASP	CB-CG-OD2	5.20	122.98	118.30
1	G	140	ASP	CB-CG-OD2	5.20	122.98	118.30
1	A	1478	ASP	CB-CG-OD2	5.19	122.97	118.30
1	C	1478	ASP	CB-CG-OD2	5.19	122.97	118.30
1	E	1478	ASP	CB-CG-OD2	5.19	122.97	118.30
1	G	1478	ASP	CB-CG-OD2	5.19	122.97	118.30
1	A	4692	PRO	CA-N-CD	-5.03	104.45	111.50
1	C	4692	PRO	CA-N-CD	-5.03	104.45	111.50
1	E	4692	PRO	CA-N-CD	-5.03	104.45	111.50
1	G	4692	PRO	CA-N-CD	-5.03	104.45	111.50
1	A	4147	LEU	CA-CB-CG	-5.01	103.77	115.30
1	C	4147	LEU	CA-CB-CG	-5.01	103.77	115.30
1	E	4147	LEU	CA-CB-CG	-5.01	103.77	115.30
1	G	4147	LEU	CA-CB-CG	-5.01	103.77	115.30

There are no chirality outliers.

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1253	PRO	Peptide
1	A	1867	GLU	Peptide
1	A	646	PRO	Peptide
1	C	1253	PRO	Peptide
1	C	1867	GLU	Peptide
1	C	646	PRO	Peptide
1	E	1253	PRO	Peptide
1	E	1867	GLU	Peptide
1	E	646	PRO	Peptide
1	G	1253	PRO	Peptide
1	G	1867	GLU	Peptide
1	G	646	PRO	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	26957	0	23849	1705	0
1	C	26957	0	23849	1709	0
1	E	26957	0	23849	1698	0
1	G	26957	0	23849	1714	0
2	B	832	0	831	41	0
2	D	832	0	831	42	0
2	F	832	0	831	42	0
2	H	832	0	831	43	0
3	A	1	0	0	2	0
3	C	1	0	0	2	0
3	E	1	0	0	2	0
3	G	1	0	0	2	0
All	All	111160	0	98720	6845	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 33.

All (6845) 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:E:554:LEU:HD11	1:E:593:HIS:CE1	1.12	1.64
1:G:554:LEU:HD11	1:G:593:HIS:CE1	1.12	1.63
1:A:554:LEU:HD11	1:A:593:HIS:CE1	1.12	1.62
1:C:554:LEU:HD11	1:C:593:HIS:CE1	1.12	1.61
1:G:1961:PHE:CZ	1:G:2063:LEU:HD23	1.36	1.60
1:E:1961:PHE:CZ	1:E:2063:LEU:HD23	1.36	1.59
1:C:1961:PHE:CZ	1:C:2063:LEU:HD23	1.36	1.57
1:C:3839:CYS:SG	1:C:3881:THR:HG22	1.43	1.56
1:A:1961:PHE:CZ	1:A:2063:LEU:HD23	1.36	1.56
1:A:3839:CYS:SG	1:A:3881:THR:HG22	1.43	1.55
1:E:3839:CYS:SG	1:E:3881:THR:HG22	1.43	1.54
1:G:3839:CYS:SG	1:G:3881:THR:HG22	1.43	1.53
1:A:4904:PRO:HB2	1:A:4910:GLU:CB	1.40	1.51
1:C:4904:PRO:HB2	1:C:4910:GLU:CB	1.40	1.51
1:E:1297:PHE:CE1	1:E:1520:VAL:HG22	1.48	1.48
1:E:4904:PRO:HB2	1:E:4910:GLU:CB	1.40	1.47
1:G:4904:PRO:HB2	1:G:4910:GLU:CB	1.40	1.47
1:A:1297:PHE:CE1	1:A:1520:VAL:HG22	1.48	1.46
1:C:1297:PHE:CE1	1:C:1520:VAL:HG22	1.48	1.45
1:G:1297:PHE:CE1	1:G:1520:VAL:HG22	1.48	1.44
1:A:2198:MET:HE3	1:A:2203:MET:SD	1.55	1.44
1:G:3839:CYS:SG	1:G:3881:THR:CG2	2.06	1.43
1:E:3839:CYS:SG	1:E:3881:THR:CG2	2.06	1.42
1:G:49:LEU:CD1	1:G:189:LEU:O	1.68	1.42
1:A:3839:CYS:SG	1:A:3881:THR:CG2	2.06	1.41
1:A:49:LEU:CD1	1:A:189:LEU:O	1.68	1.41
1:C:3839:CYS:SG	1:C:3881:THR:CG2	2.06	1.40
1:E:49:LEU:CD1	1:E:189:LEU:O	1.68	1.40
1:G:2198:MET:CE	1:G:2203:MET:SD	2.10	1.40
1:C:49:LEU:CD1	1:C:189:LEU:O	1.68	1.40
1:A:2198:MET:CE	1:A:2203:MET:SD	2.10	1.39
1:E:2198:MET:CE	1:E:2203:MET:SD	2.10	1.39
1:C:2198:MET:CE	1:C:2203:MET:SD	2.10	1.38
1:A:554:LEU:CD1	1:A:593:HIS:CE1	2.06	1.37
1:C:1122:TYR:CE1	1:C:1133:HIS:CE1	2.12	1.36
1:E:554:LEU:CD1	1:E:593:HIS:CE1	2.06	1.36
1:E:2198:MET:HE3	1:E:2203:MET:SD	1.65	1.36
1:A:1122:TYR:CE1	1:A:1133:HIS:CE1	2.12	1.36
1:G:1122:TYR:CE1	1:G:1133:HIS:CE1	2.12	1.36
1:E:1122:TYR:CE1	1:E:1133:HIS:CE1	2.12	1.35
1:G:554:LEU:CD1	1:G:593:HIS:CE1	2.06	1.35
1:C:554:LEU:CD1	1:C:593:HIS:CE1	2.06	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:26:TYR:N	2:H:39:SER:OG	1.62	1.33
1:C:1122:TYR:CE1	1:C:1133:HIS:ND1	1.97	1.33
1:G:1122:TYR:CE1	1:G:1133:HIS:ND1	1.97	1.33
2:D:26:TYR:N	2:D:39:SER:OG	1.62	1.32
1:G:4010:ILE:HD12	1:G:4011:GLU:N	1.43	1.32
2:B:26:TYR:N	2:B:39:SER:OG	1.62	1.32
1:G:4693:GLY:O	1:G:4695:ASP:N	1.63	1.32
1:A:1122:TYR:CE1	1:A:1133:HIS:ND1	1.97	1.31
1:E:1122:TYR:CE1	1:E:1133:HIS:ND1	1.97	1.31
1:C:4010:ILE:HD12	1:C:4011:GLU:N	1.43	1.31
1:C:4693:GLY:O	1:C:4695:ASP:N	1.63	1.30
1:E:4010:ILE:HD12	1:E:4011:GLU:N	1.43	1.30
1:A:4010:ILE:HD12	1:A:4011:GLU:N	1.43	1.29
1:A:4693:GLY:O	1:A:4695:ASP:N	1.63	1.29
2:F:26:TYR:N	2:F:39:SER:OG	1.62	1.29
1:E:4693:GLY:O	1:E:4695:ASP:N	1.63	1.28
1:C:2198:MET:HE3	1:C:2203:MET:SD	1.67	1.28
1:G:2198:MET:HE2	1:G:2203:MET:SD	1.68	1.25
1:A:4904:PRO:HB2	1:A:4910:GLU:CG	1.67	1.25
1:C:4904:PRO:HB2	1:C:4910:GLU:CG	1.67	1.25
1:C:1763:PRO:HD2	1:C:1863:LEU:CD1	1.67	1.25
1:G:4904:PRO:HB2	1:G:4910:GLU:CG	1.67	1.25
1:A:1763:PRO:HD2	1:A:1863:LEU:CD1	1.67	1.24
1:E:4904:PRO:HB2	1:E:4910:GLU:CG	1.67	1.24
1:G:49:LEU:HD11	1:G:189:LEU:C	1.58	1.24
1:A:49:LEU:HD11	1:A:189:LEU:C	1.58	1.23
1:E:1763:PRO:HD2	1:E:1863:LEU:CD1	1.67	1.23
1:G:1763:PRO:HD2	1:G:1863:LEU:CD1	1.67	1.23
1:C:49:LEU:HD11	1:C:189:LEU:C	1.58	1.23
1:A:125:ARG:HB2	1:A:134:ASP:CG	1.59	1.22
1:E:125:ARG:HB2	1:E:134:ASP:CG	1.59	1.22
1:C:157:ARG:NH1	1:C:164:ARG:HB2	1.55	1.22
1:E:49:LEU:HD11	1:E:189:LEU:C	1.58	1.22
1:E:1286:MET:HE2	1:E:1555:LEU:CD1	1.70	1.21
1:G:125:ARG:HB2	1:G:134:ASP:CG	1.59	1.20
1:E:157:ARG:NH1	1:E:164:ARG:HB2	1.55	1.20
1:A:157:ARG:NH1	1:A:164:ARG:HB2	1.55	1.20
1:G:157:ARG:NH1	1:G:164:ARG:HB2	1.55	1.20
1:C:125:ARG:HB2	1:C:134:ASP:CG	1.59	1.20
1:E:2198:MET:CE	1:E:2203:MET:CE	2.20	1.20
1:A:195:PHE:CE1	1:C:2358:ILE:HG23	1.78	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:682:LEU:CD2	1:E:787:VAL:HG11	1.73	1.19
1:A:2358:ILE:HG23	1:G:195:PHE:CE1	1.78	1.19
1:E:49:LEU:CD1	1:E:189:LEU:HB2	1.73	1.19
1:G:682:LEU:CD2	1:G:787:VAL:HG11	1.73	1.19
1:E:195:PHE:CE1	1:G:2358:ILE:HG23	1.78	1.19
1:E:595:ARG:HB3	1:E:1662:PHE:CD1	1.78	1.19
1:E:2198:MET:HE3	1:E:2203:MET:CE	1.72	1.19
1:C:49:LEU:CD1	1:C:189:LEU:HB2	1.73	1.18
1:C:2198:MET:CE	1:C:2203:MET:CE	2.20	1.18
1:C:2198:MET:HE3	1:C:2203:MET:CE	1.72	1.18
1:G:49:LEU:CD1	1:G:189:LEU:HB2	1.73	1.18
1:G:2198:MET:CE	1:G:2203:MET:CE	2.20	1.18
1:A:49:LEU:CD1	1:A:189:LEU:HB2	1.73	1.18
1:A:595:ARG:HB3	1:A:1662:PHE:CD1	1.78	1.18
1:A:2198:MET:CE	1:A:2203:MET:CE	2.20	1.18
1:C:595:ARG:HB3	1:C:1662:PHE:CD1	1.78	1.18
1:G:554:LEU:CD1	1:G:593:HIS:HE1	1.46	1.18
1:G:595:ARG:HB3	1:G:1662:PHE:CD1	1.78	1.18
1:G:2198:MET:HE3	1:G:2203:MET:CE	1.72	1.18
1:C:682:LEU:CD2	1:C:787:VAL:HG11	1.73	1.18
1:A:682:LEU:CD2	1:A:787:VAL:HG11	1.73	1.17
1:C:2198:MET:HE2	1:C:2203:MET:SD	1.79	1.17
1:E:1018:ASN:CB	1:E:1021:LEU:HD21	1.75	1.17
1:G:1131:ARG:HD3	1:G:1139:PHE:HB2	1.26	1.17
1:C:195:PHE:CE1	1:E:2358:ILE:HG23	1.78	1.17
1:A:167:ASP:OD1	1:C:384:MET:HE3	1.44	1.17
1:C:3670:GLU:HG2	1:C:3728:ILE:HG23	1.19	1.17
1:G:4692:PRO:HG2	1:G:4700:GLN:NE2	1.60	1.17
1:A:1018:ASN:CB	1:A:1021:LEU:HD21	1.75	1.16
1:A:1448:VAL:HG13	1:A:1554:VAL:HG22	1.16	1.16
1:C:1018:ASN:CB	1:C:1021:LEU:HD21	1.75	1.16
1:C:1961:PHE:CZ	1:C:2063:LEU:CD2	2.29	1.16
1:E:554:LEU:CD1	1:E:593:HIS:HE1	1.46	1.16
1:A:4181:ILE:HD13	1:A:4991:PHE:CG	1.81	1.16
1:G:13:PHE:HE2	1:G:164:ARG:NH1	1.44	1.16
1:C:554:LEU:CD1	1:C:593:HIS:HE1	1.46	1.16
1:C:4692:PRO:HG2	1:C:4700:GLN:NE2	1.60	1.16
1:G:1018:ASN:CB	1:G:1021:LEU:HD21	1.75	1.16
1:A:4692:PRO:HG2	1:A:4700:GLN:NE2	1.60	1.15
1:C:4181:ILE:HD13	1:C:4991:PHE:CG	1.81	1.15
1:G:4181:ILE:HD13	1:G:4991:PHE:CG	1.81	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:157:ARG:HH12	1:C:164:ARG:CB	1.60	1.15
1:C:1131:ARG:HD3	1:C:1139:PHE:HB2	1.26	1.15
1:G:1961:PHE:CZ	1:G:2063:LEU:CD2	2.29	1.15
1:E:157:ARG:HH12	1:E:164:ARG:CB	1.60	1.15
1:A:554:LEU:CD1	1:A:593:HIS:HE1	1.46	1.15
1:A:13:PHE:HE2	1:A:164:ARG:NH1	1.44	1.15
1:E:1961:PHE:CZ	1:E:2063:LEU:CD2	2.29	1.15
1:C:49:LEU:HD12	1:C:189:LEU:O	1.40	1.14
1:E:1018:ASN:HB3	1:E:1021:LEU:CD2	1.77	1.14
1:E:1131:ARG:HD3	1:E:1139:PHE:HB2	1.26	1.14
1:E:4181:ILE:HD13	1:E:4991:PHE:CG	1.81	1.14
1:G:2198:MET:HE3	1:G:2203:MET:SD	1.78	1.14
1:G:4692:PRO:HG2	1:G:4700:GLN:HE22	0.99	1.14
1:A:157:ARG:HH12	1:A:164:ARG:CB	1.60	1.14
1:A:2198:MET:HE3	1:A:2203:MET:CE	1.74	1.14
1:C:4692:PRO:HG2	1:C:4700:GLN:HE22	0.99	1.14
1:E:4692:PRO:HG2	1:E:4700:GLN:NE2	1.60	1.14
1:A:384:MET:HE3	1:G:167:ASP:OD1	1.45	1.14
1:G:1763:PRO:CD	1:G:1863:LEU:HD11	1.78	1.14
1:E:3670:GLU:HG2	1:E:3728:ILE:HG23	1.19	1.14
1:E:4904:PRO:HB2	1:E:4910:GLU:HB2	1.14	1.14
1:A:1961:PHE:CZ	1:A:2063:LEU:CD2	2.29	1.13
1:E:13:PHE:HE2	1:E:164:ARG:NH1	1.44	1.13
1:C:13:PHE:HE2	1:C:164:ARG:NH1	1.44	1.13
1:G:157:ARG:HH12	1:G:164:ARG:CB	1.60	1.13
1:G:1297:PHE:CE1	1:G:1520:VAL:CG2	2.32	1.13
1:A:1018:ASN:HB3	1:A:1021:LEU:CD2	1.77	1.13
1:A:1763:PRO:CD	1:A:1863:LEU:HD11	1.78	1.13
1:C:1297:PHE:CE1	1:C:1520:VAL:CG2	2.32	1.13
1:E:4692:PRO:HD3	1:E:4703:ARG:HH21	1.00	1.13
1:A:598:LYS:H	1:A:598:LYS:HD2	1.13	1.12
1:E:167:ASP:OD1	1:G:384:MET:CE	1.97	1.13
1:C:167:ASP:OD1	1:E:384:MET:CE	1.97	1.12
1:E:1448:VAL:HG13	1:E:1554:VAL:HG22	1.16	1.12
1:G:1018:ASN:HB3	1:G:1021:LEU:CD2	1.77	1.12
1:G:125:ARG:HB2	1:G:134:ASP:OD1	1.47	1.12
1:C:1018:ASN:HB3	1:C:1021:LEU:CD2	1.77	1.12
1:E:125:ARG:HB2	1:E:134:ASP:OD1	1.47	1.12
1:E:1763:PRO:CD	1:E:1863:LEU:HD11	1.78	1.12
1:A:4904:PRO:HB2	1:A:4910:GLU:HB2	1.14	1.12
1:E:49:LEU:HD12	1:E:189:LEU:O	1.40	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1297:PHE:CE1	1:E:1520:VAL:CG2	2.32	1.12
1:G:1286:MET:HE2	1:G:1555:LEU:HD13	1.12	1.12
1:A:70:GLU:O	1:A:71:GLN:HG2	1.50	1.12
1:A:384:MET:CE	1:G:167:ASP:OD1	1.97	1.12
1:C:1448:VAL:HG13	1:C:1554:VAL:HG22	1.16	1.12
1:C:1763:PRO:CD	1:C:1863:LEU:HD11	1.78	1.12
1:G:70:GLU:O	1:G:71:GLN:HG2	1.50	1.12
1:A:125:ARG:HB2	1:A:134:ASP:OD1	1.47	1.11
1:A:1297:PHE:CE1	1:A:1520:VAL:CG2	2.32	1.11
1:C:70:GLU:O	1:C:71:GLN:HG2	1.50	1.11
1:E:1286:MET:CE	1:E:1555:LEU:HD13	1.79	1.11
1:G:3992:PHE:HD1	1:G:3996:PHE:CE2	1.68	1.11
1:G:4904:PRO:HB2	1:G:4910:GLU:HB2	1.14	1.11
1:A:167:ASP:OD1	1:C:384:MET:CE	1.97	1.11
1:A:3992:PHE:HD1	1:A:3996:PHE:CE2	1.68	1.11
1:C:125:ARG:HB2	1:C:134:ASP:OD1	1.47	1.11
1:E:70:GLU:O	1:E:71:GLN:HG2	1.50	1.11
1:A:4692:PRO:HG2	1:A:4700:GLN:HE22	0.99	1.11
1:C:1286:MET:HE2	1:C:1555:LEU:HD11	1.26	1.11
1:A:1286:MET:CE	1:A:1555:LEU:HD13	1.79	1.11
1:A:3670:GLU:HG2	1:A:3728:ILE:HG23	1.19	1.11
1:G:4195:PHE:HE1	1:G:4197:ILE:CG1	1.64	1.11
1:A:682:LEU:HD12	1:A:783:PHE:HA	1.13	1.10
1:C:4692:PRO:HD3	1:C:4703:ARG:HH21	1.00	1.10
1:E:2198:MET:HE2	1:E:2203:MET:SD	1.82	1.10
1:A:1131:ARG:HD3	1:A:1139:PHE:HB2	1.26	1.10
1:A:1286:MET:CE	1:A:1555:LEU:CD1	2.29	1.10
1:A:1965:TYR:HE1	1:A:1969:LEU:HD22	1.16	1.10
1:G:682:LEU:HD21	1:G:787:VAL:CG1	1.81	1.10
1:C:3992:PHE:HD1	1:C:3996:PHE:CE2	1.68	1.10
1:E:4195:PHE:HE1	1:E:4197:ILE:CG1	1.64	1.10
1:E:4692:PRO:HG2	1:E:4700:GLN:HE22	0.99	1.10
1:G:681:HIS:HA	1:G:716:PHE:CD1	1.87	1.10
1:A:2198:MET:HE2	1:A:2203:MET:SD	1.92	1.10
1:A:4195:PHE:HE1	1:A:4197:ILE:CG1	1.64	1.10
1:C:681:HIS:HA	1:C:716:PHE:CD1	1.87	1.10
1:C:682:LEU:HD12	1:C:783:PHE:HA	1.13	1.10
1:C:1286:MET:CE	1:C:1555:LEU:HD13	1.79	1.10
1:G:1286:MET:CE	1:G:1555:LEU:HD13	1.79	1.10
1:G:1448:VAL:CG1	1:G:1554:VAL:HG22	1.82	1.10
1:C:598:LYS:H	1:C:598:LYS:HD2	1.13	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1286:MET:CE	1:C:1555:LEU:CD1	2.29	1.10
1:C:1286:MET:HE1	1:C:1555:LEU:HD13	1.19	1.10
1:E:3992:PHE:HD1	1:E:3996:PHE:CE2	1.68	1.10
1:G:3670:GLU:HG2	1:G:3728:ILE:HG23	1.19	1.10
1:C:1965:TYR:HE1	1:C:1969:LEU:HD22	1.16	1.09
1:G:1448:VAL:HG13	1:G:1554:VAL:HG22	1.16	1.09
1:G:1965:TYR:HE1	1:G:1969:LEU:HD22	1.16	1.09
1:C:4195:PHE:HE1	1:C:4197:ILE:CG1	1.64	1.09
1:E:1448:VAL:CG1	1:E:1554:VAL:HG22	1.82	1.09
1:G:1286:MET:CE	1:G:1555:LEU:CD1	2.29	1.09
1:E:125:ARG:HB2	1:E:134:ASP:OD2	1.51	1.09
1:E:682:LEU:HD21	1:E:787:VAL:CG1	1.81	1.09
1:G:49:LEU:HD12	1:G:189:LEU:O	1.40	1.09
1:E:681:HIS:HA	1:E:716:PHE:CD1	1.87	1.09
1:A:681:HIS:HA	1:A:716:PHE:CD1	1.87	1.09
1:C:515:TRP:CH2	1:C:555:GLU:HG3	1.88	1.09
1:C:4686:LEU:HG	1:C:4687:TYR:CD1	1.88	1.09
1:E:1286:MET:CE	1:E:1555:LEU:CD1	2.29	1.09
1:G:598:LYS:H	1:G:598:LYS:HD2	1.13	1.09
1:A:49:LEU:HD12	1:A:189:LEU:O	1.40	1.08
1:A:682:LEU:HD21	1:A:787:VAL:CG1	1.81	1.08
1:A:1448:VAL:CG1	1:A:1554:VAL:HG22	1.82	1.08
1:C:716:PHE:CE2	1:C:717:ASP:HB3	1.89	1.08
1:G:515:TRP:CH2	1:G:555:GLU:HG3	1.88	1.08
1:G:4904:PRO:CB	1:G:4910:GLU:CB	2.31	1.08
1:A:4692:PRO:HD3	1:A:4703:ARG:HH21	1.00	1.08
1:C:682:LEU:HD21	1:C:787:VAL:CG1	1.81	1.08
1:C:1448:VAL:CG1	1:C:1554:VAL:HG22	1.82	1.08
1:E:1965:TYR:HE1	1:E:1969:LEU:HD22	1.16	1.08
1:A:125:ARG:HB2	1:A:134:ASP:OD2	1.51	1.08
1:A:4904:PRO:CB	1:A:4910:GLU:CB	2.31	1.08
1:G:4692:PRO:HD3	1:G:4703:ARG:HH21	1.00	1.08
1:C:4686:LEU:HD11	1:C:4687:TYR:HE1	1.16	1.08
1:C:4904:PRO:HB2	1:C:4910:GLU:HB2	1.14	1.08
1:G:4686:LEU:HG	1:G:4687:TYR:CD1	1.88	1.08
1:C:1122:TYR:CD1	1:C:1133:HIS:ND1	2.18	1.07
1:E:4904:PRO:CB	1:E:4910:GLU:CB	2.31	1.07
1:A:1286:MET:HE2	1:A:1555:LEU:HD13	1.12	1.07
1:A:4195:PHE:CE1	1:A:4197:ILE:HG13	1.89	1.07
1:A:4686:LEU:HG	1:A:4687:TYR:CD1	1.88	1.07
1:A:4686:LEU:HD11	1:A:4687:TYR:HE1	1.16	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4904:PRO:CB	1:C:4910:GLU:CB	2.31	1.07
1:E:515:TRP:CH2	1:E:555:GLU:HG3	1.88	1.07
1:E:716:PHE:CE2	1:E:717:ASP:HB3	1.89	1.07
1:A:716:PHE:CE2	1:A:717:ASP:HB3	1.89	1.07
1:C:125:ARG:HB2	1:C:134:ASP:OD2	1.51	1.07
1:C:4195:PHE:CE1	1:C:4197:ILE:HG13	1.89	1.07
1:E:4686:LEU:HG	1:E:4687:TYR:CD1	1.88	1.07
1:G:125:ARG:HB2	1:G:134:ASP:OD2	1.51	1.07
1:G:716:PHE:CE2	1:G:717:ASP:HB3	1.89	1.07
1:G:1122:TYR:CD1	1:G:1133:HIS:ND1	2.18	1.07
1:G:682:LEU:HD12	1:G:783:PHE:HA	1.13	1.07
1:A:515:TRP:CH2	1:A:555:GLU:HG3	1.88	1.07
1:E:4195:PHE:CE1	1:E:4197:ILE:HG13	1.89	1.07
1:E:4686:LEU:HD11	1:E:4687:TYR:HE1	1.16	1.06
1:A:716:PHE:CD2	1:A:717:ASP:N	2.23	1.06
1:E:716:PHE:CE2	1:E:717:ASP:CB	2.38	1.06
1:G:1286:MET:HE2	1:G:1555:LEU:CD1	1.84	1.06
1:G:4195:PHE:CE1	1:G:4197:ILE:HG13	1.89	1.06
1:A:1286:MET:HE3	1:A:1555:LEU:HD11	1.35	1.06
1:A:4686:LEU:O	1:A:4691:GLN:N	1.89	1.06
1:E:598:LYS:H	1:E:598:LYS:HD2	1.13	1.06
1:E:716:PHE:CD2	1:E:717:ASP:N	2.23	1.06
1:A:273:HIS:CE1	1:A:334:MET:HE1	1.91	1.06
1:C:716:PHE:CE2	1:C:717:ASP:CB	2.38	1.06
1:C:716:PHE:CD2	1:C:717:ASP:N	2.23	1.06
1:E:681:HIS:HA	1:E:716:PHE:HD1	1.20	1.06
1:E:4692:PRO:HD3	1:E:4703:ARG:NH2	1.71	1.06
1:G:716:PHE:CE2	1:G:717:ASP:CB	2.38	1.06
1:G:4686:LEU:HD11	1:G:4687:TYR:HE1	1.16	1.06
1:C:4692:PRO:HD3	1:C:4703:ARG:NH2	1.71	1.06
1:E:682:LEU:HD12	1:E:783:PHE:HA	1.13	1.06
1:E:3992:PHE:CD1	1:E:3996:PHE:HE2	1.74	1.05
1:E:4686:LEU:O	1:E:4691:GLN:N	1.89	1.05
1:G:716:PHE:CD2	1:G:717:ASP:N	2.23	1.05
1:G:4692:PRO:HD3	1:G:4703:ARG:NH2	1.71	1.05
1:C:4686:LEU:O	1:C:4691:GLN:N	1.89	1.05
1:G:3992:PHE:CD1	1:G:3996:PHE:HE2	1.74	1.05
1:C:1286:MET:HE2	1:C:1555:LEU:CD1	1.85	1.05
1:A:716:PHE:CE2	1:A:717:ASP:CB	2.38	1.05
1:C:1853:ILE:HG22	1:C:1854:PHE:CD1	1.92	1.05
1:C:3992:PHE:CD1	1:C:3996:PHE:HE2	1.74	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1853:ILE:HG22	1:G:1854:PHE:CD1	1.92	1.05
1:A:49:LEU:HD11	1:A:189:LEU:O	1.46	1.05
1:A:1122:TYR:CD1	1:A:1133:HIS:ND1	2.18	1.05
1:G:1286:MET:HE3	1:G:1555:LEU:HD11	1.36	1.05
1:A:1286:MET:HE2	1:A:1555:LEU:CD1	1.86	1.04
1:A:1853:ILE:HG22	1:A:1854:PHE:CD1	1.92	1.04
1:A:3992:PHE:CD1	1:A:3996:PHE:HE2	1.74	1.04
1:G:4686:LEU:O	1:G:4691:GLN:N	1.89	1.04
1:A:736:HIS:CE1	1:A:739:ALA:HB2	1.92	1.04
1:C:736:HIS:CE1	1:C:739:ALA:HB2	1.92	1.04
1:C:4686:LEU:HD11	1:C:4687:TYR:CE1	1.93	1.04
1:G:736:HIS:CE1	1:G:739:ALA:HB2	1.92	1.04
1:C:2129:ASP:HB2	1:C:3669:PHE:HE2	1.21	1.04
1:E:273:HIS:CE1	1:E:334:MET:HE1	1.92	1.04
1:E:1286:MET:HE2	1:E:1555:LEU:HD13	1.06	1.04
1:E:1853:ILE:HG22	1:E:1854:PHE:CD1	1.92	1.04
1:E:2129:ASP:HB2	1:E:3669:PHE:HE2	1.21	1.04
1:E:4686:LEU:HD11	1:E:4687:TYR:CE1	1.93	1.04
1:A:554:LEU:HD11	1:A:593:HIS:NE2	1.72	1.04
1:C:554:LEU:HD11	1:C:593:HIS:NE2	1.72	1.04
1:G:554:LEU:HD11	1:G:593:HIS:NE2	1.72	1.04
1:G:2129:ASP:HB2	1:G:3669:PHE:HE2	1.21	1.04
1:G:4686:LEU:HD11	1:G:4687:TYR:CE1	1.93	1.04
1:A:4195:PHE:HE1	1:A:4197:ILE:HG13	1.18	1.03
1:A:4686:LEU:HA	1:A:4690:GLU:HB2	1.04	1.03
1:C:592:LYS:HE2	1:C:1596:GLU:CD	1.79	1.03
1:C:1961:PHE:CE2	1:C:2063:LEU:HD23	1.93	1.03
1:C:4686:LEU:HA	1:C:4690:GLU:HB2	1.04	1.03
1:E:554:LEU:HD11	1:E:593:HIS:NE2	1.72	1.03
1:E:1961:PHE:CE2	1:E:2063:LEU:HD23	1.93	1.03
1:G:588:SER:O	1:G:592:LYS:HG3	1.58	1.03
1:A:592:LYS:HE2	1:A:1596:GLU:CD	1.79	1.03
1:A:1961:PHE:CE2	1:A:2063:LEU:HD23	1.93	1.03
1:A:4692:PRO:HD3	1:A:4703:ARG:NH2	1.71	1.03
1:C:273:HIS:CE1	1:C:334:MET:HE1	1.93	1.03
1:C:588:SER:O	1:C:592:LYS:HG3	1.58	1.03
1:E:592:LYS:HE2	1:E:1596:GLU:CD	1.79	1.03
1:A:2129:ASP:HB2	1:A:3669:PHE:HE2	1.21	1.03
1:E:736:HIS:CE1	1:E:739:ALA:HB2	1.92	1.03
1:G:592:LYS:HE2	1:G:1596:GLU:CD	1.79	1.03
1:A:515:TRP:CZ3	1:A:555:GLU:HG3	1.94	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:721:LEU:CD2	1:C:767:VAL:CG1	2.37	1.03
1:G:515:TRP:CZ3	1:G:555:GLU:HG3	1.94	1.03
1:E:588:SER:O	1:E:592:LYS:HG3	1.58	1.03
1:E:646:PRO:HB2	1:E:793:LEU:HD11	1.41	1.03
1:E:721:LEU:CD2	1:E:767:VAL:CG1	2.37	1.03
1:G:721:LEU:CD2	1:G:767:VAL:CG1	2.37	1.03
1:G:2198:MET:HE3	1:G:2203:MET:HE3	1.40	1.03
1:A:4686:LEU:HD11	1:A:4687:TYR:CE1	1.93	1.02
1:C:13:PHE:CE2	1:C:164:ARG:NH1	2.27	1.02
1:A:588:SER:O	1:A:592:LYS:HG3	1.58	1.02
1:A:681:HIS:HA	1:A:716:PHE:HD1	1.20	1.02
1:C:515:TRP:CZ3	1:C:555:GLU:HG3	1.94	1.02
1:E:13:PHE:CE2	1:E:164:ARG:NH1	2.27	1.02
1:E:2129:ASP:HB2	1:E:3669:PHE:CE2	1.94	1.02
1:E:4181:ILE:CD1	1:E:4991:PHE:CD2	2.43	1.02
1:G:13:PHE:CE2	1:G:164:ARG:NH1	2.27	1.02
1:G:2129:ASP:HB2	1:G:3669:PHE:CE2	1.94	1.02
1:A:721:LEU:CD2	1:A:767:VAL:CG1	2.37	1.02
1:C:4181:ILE:CD1	1:C:4991:PHE:CD2	2.43	1.02
1:A:682:LEU:CD1	1:A:783:PHE:HA	1.90	1.02
1:C:2129:ASP:HB2	1:C:3669:PHE:CE2	1.94	1.02
1:G:646:PRO:HB2	1:G:793:LEU:HD11	1.41	1.02
1:C:595:ARG:HB3	1:C:1662:PHE:CE1	1.95	1.02
1:G:157:ARG:HH12	1:G:164:ARG:HB2	0.86	1.02
1:G:4181:ILE:CD1	1:G:4991:PHE:CD2	2.43	1.02
1:E:515:TRP:CZ3	1:E:555:GLU:HG3	1.94	1.01
1:E:4686:LEU:HA	1:E:4690:GLU:HB2	1.04	1.01
1:C:49:LEU:HD13	1:C:189:LEU:HB2	1.40	1.01
1:C:3992:PHE:CD1	1:C:3996:PHE:CE2	2.49	1.01
1:G:1961:PHE:CE2	1:G:2063:LEU:HD23	1.93	1.01
1:E:49:LEU:HD13	1:E:189:LEU:HB2	1.40	1.01
1:E:218:HIS:ND1	1:E:341:TYR:OH	1.94	1.01
1:G:4195:PHE:HE1	1:G:4197:ILE:HG13	1.18	1.01
1:C:682:LEU:CD1	1:C:783:PHE:HA	1.90	1.01
1:E:157:ARG:HH12	1:E:164:ARG:HB2	0.86	1.01
1:A:13:PHE:CE2	1:A:164:ARG:NH1	2.27	1.01
1:A:4181:ILE:CD1	1:A:4991:PHE:CD2	2.43	1.01
1:E:3992:PHE:CD1	1:E:3996:PHE:CE2	2.49	1.01
1:G:49:LEU:HD11	1:G:189:LEU:O	1.46	1.01
1:G:4686:LEU:HA	1:G:4690:GLU:HB2	1.04	1.01
1:A:218:HIS:ND1	1:A:341:TYR:OH	1.94	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:595:ARG:HB3	1:A:1662:PHE:CE1	1.95	1.00
1:A:2129:ASP:HB2	1:A:3669:PHE:CE2	1.94	1.00
1:C:49:LEU:HD11	1:C:189:LEU:O	1.46	1.00
1:E:595:ARG:HB3	1:E:1662:PHE:CE1	1.95	1.00
1:G:595:ARG:HB3	1:G:1662:PHE:CE1	1.95	1.00
1:G:682:LEU:CD1	1:G:783:PHE:HA	1.90	1.00
1:G:218:HIS:ND1	1:G:341:TYR:OH	1.94	1.00
1:A:157:ARG:HH12	1:A:164:ARG:HB2	0.86	1.00
1:A:2358:ILE:CG2	1:G:195:PHE:CE1	2.45	1.00
1:C:646:PRO:HB2	1:C:793:LEU:HD11	1.41	1.00
1:A:3970:GLN:HA	1:A:3970:GLN:HE21	1.25	1.00
1:C:4195:PHE:HE1	1:C:4197:ILE:HG13	1.18	1.00
1:E:195:PHE:CE1	1:G:2358:ILE:CG2	2.45	0.99
1:E:682:LEU:CD1	1:E:783:PHE:HA	1.90	0.99
1:A:49:LEU:HD13	1:A:189:LEU:HB2	1.40	0.99
1:E:4195:PHE:HE1	1:E:4197:ILE:HG13	1.18	0.99
1:G:1857:GLU:OE2	1:G:1857:GLU:N	1.95	0.99
1:C:157:ARG:HH12	1:C:164:ARG:HB2	0.86	0.99
1:C:3970:GLN:HE21	1:C:3970:GLN:HA	1.25	0.99
1:A:195:PHE:CE1	1:C:2358:ILE:CG2	2.45	0.99
1:E:167:ASP:OD1	1:G:384:MET:HE3	1.61	0.99
1:C:218:HIS:ND1	1:C:341:TYR:OH	1.94	0.99
1:E:851:PHE:O	1:E:852:VAL:O	1.80	0.99
1:C:1857:GLU:OE2	1:C:1857:GLU:N	1.95	0.99
1:E:3970:GLN:HE21	1:E:3970:GLN:HA	1.25	0.99
1:A:646:PRO:HB2	1:A:793:LEU:HD11	1.41	0.99
1:E:1857:GLU:OE2	1:E:1857:GLU:N	1.95	0.99
1:G:3970:GLN:HA	1:G:3970:GLN:HE21	1.25	0.99
1:A:851:PHE:O	1:A:852:VAL:O	1.80	0.98
1:A:3992:PHE:CD1	1:A:3996:PHE:CE2	2.49	0.98
1:E:1453:VAL:HA	1:E:1493:UNK:CB	1.93	0.98
1:A:600:LEU:HD21	1:A:1666:THR:HA	1.44	0.98
1:A:1857:GLU:OE2	1:A:1857:GLU:N	1.95	0.98
1:A:4904:PRO:CG	1:A:4910:GLU:HG2	1.93	0.98
1:C:1452:TRP:CG	1:C:1527:MET:HE1	1.99	0.98
1:C:1453:VAL:HA	1:C:1493:UNK:CB	1.93	0.98
1:C:4904:PRO:CG	1:C:4910:GLU:HG2	1.93	0.98
1:E:721:LEU:HD22	1:E:767:VAL:CG1	1.94	0.98
1:G:49:LEU:HD13	1:G:189:LEU:HB2	1.40	0.98
1:C:195:PHE:CE1	1:E:2358:ILE:CG2	2.45	0.98
1:E:4904:PRO:CB	1:E:4910:GLU:CG	2.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:273:HIS:CE1	1:G:334:MET:HE1	1.97	0.98
1:G:1453:VAL:HA	1:G:1493:UNK:CB	1.93	0.98
1:G:3992:PHE:CD1	1:G:3996:PHE:CE2	2.49	0.98
1:C:851:PHE:O	1:C:852:VAL:O	1.80	0.98
1:G:721:LEU:HD22	1:G:767:VAL:CG1	1.94	0.98
1:G:4904:PRO:CB	1:G:4910:GLU:CG	2.42	0.98
1:A:682:LEU:HD21	1:A:787:VAL:HG11	0.98	0.97
1:G:851:PHE:O	1:G:852:VAL:O	1.80	0.97
1:E:1122:TYR:HE1	1:E:1133:HIS:CE1	1.69	0.97
1:A:1452:TRP:CG	1:A:1527:MET:HE1	1.98	0.97
1:C:167:ASP:OD1	1:E:384:MET:HE3	1.58	0.97
1:C:721:LEU:HD22	1:C:767:VAL:CG1	1.94	0.97
1:G:682:LEU:HD21	1:G:787:VAL:HG11	0.98	0.97
1:A:1018:ASN:HB3	1:A:1021:LEU:HD21	0.97	0.97
1:A:4904:PRO:CB	1:A:4910:GLU:CG	2.42	0.97
1:C:1018:ASN:HB3	1:C:1021:LEU:HD21	0.97	0.97
1:C:3669:PHE:CD1	1:C:3670:GLU:N	2.33	0.97
1:A:721:LEU:HD22	1:A:767:VAL:CG1	1.94	0.97
1:A:1453:VAL:HA	1:A:1493:UNK:CB	1.93	0.97
1:C:600:LEU:HD21	1:C:1666:THR:HA	1.44	0.97
1:G:600:LEU:HD21	1:G:1666:THR:HA	1.44	0.97
1:C:1961:PHE:CE2	1:C:2063:LEU:CD2	2.48	0.96
1:C:4904:PRO:CB	1:C:4910:GLU:CG	2.42	0.96
1:A:4181:ILE:CD1	1:A:4991:PHE:CG	2.48	0.96
1:C:681:HIS:HA	1:C:716:PHE:HD1	1.20	0.96
1:C:4181:ILE:CD1	1:C:4991:PHE:CG	2.48	0.96
1:A:1452:TRP:CB	1:A:1527:MET:HE1	1.95	0.96
1:A:49:LEU:HD11	1:A:189:LEU:HB2	1.48	0.96
1:C:1122:TYR:HD1	1:C:1133:HIS:HD1	1.13	0.96
1:C:1452:TRP:CB	1:C:1527:MET:HE1	1.95	0.96
1:G:1961:PHE:CE2	1:G:2063:LEU:CD2	2.48	0.96
1:G:4904:PRO:CG	1:G:4910:GLU:HG2	1.93	0.96
1:E:600:LEU:HD21	1:E:1666:THR:HA	1.44	0.96
1:E:3669:PHE:CD1	1:E:3670:GLU:N	2.33	0.96
1:G:4181:ILE:CD1	1:G:4991:PHE:CG	2.48	0.96
1:A:1122:TYR:HD1	1:A:1133:HIS:HD1	1.13	0.96
1:E:1452:TRP:CD1	1:E:1527:MET:HE3	2.01	0.96
1:E:4904:PRO:CG	1:E:4910:GLU:HG2	1.93	0.96
1:C:49:LEU:HD11	1:C:189:LEU:HB2	1.48	0.96
1:C:682:LEU:HD21	1:C:787:VAL:HG11	0.98	0.96
1:E:1961:PHE:CE2	1:E:2063:LEU:CD2	2.48	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:681:HIS:HA	1:G:716:PHE:HD1	1.20	0.96
1:E:1122:TYR:CD1	1:E:1133:HIS:ND1	2.18	0.96
1:G:1122:TYR:HE1	1:G:1133:HIS:CE1	1.69	0.96
1:G:1808:ARG:HB2	1:G:1854:PHE:CE1	2.01	0.96
1:E:682:LEU:HD21	1:E:787:VAL:HG11	0.98	0.95
1:E:1767:VAL:O	1:E:1769:THR:HG23	1.66	0.95
1:A:1478:ASP:O	1:A:1480:GLN:N	1.99	0.95
1:G:49:LEU:HD11	1:G:189:LEU:HB2	1.48	0.95
1:A:1961:PHE:CE2	1:A:2063:LEU:CD2	2.48	0.95
1:A:3669:PHE:CD1	1:A:3670:GLU:N	2.33	0.95
1:A:3839:CYS:SG	1:A:3881:THR:CB	2.55	0.95
1:E:4181:ILE:CD1	1:E:4991:PHE:CG	2.48	0.95
1:E:1808:ARG:HB2	1:E:1854:PHE:CE1	2.01	0.95
1:G:1452:TRP:CD1	1:G:1527:MET:HE3	2.01	0.95
1:G:3669:PHE:CD1	1:G:3670:GLU:N	2.33	0.95
1:C:3839:CYS:SG	1:C:3881:THR:CB	2.55	0.95
1:A:1808:ARG:HB2	1:A:1854:PHE:CE1	2.01	0.95
1:A:4686:LEU:CG	1:A:4687:TYR:CD1	2.50	0.95
1:C:4686:LEU:CG	1:C:4687:TYR:CD1	2.50	0.95
1:E:1018:ASN:HB3	1:E:1021:LEU:HD21	0.97	0.95
1:C:1808:ARG:HB2	1:C:1854:PHE:CE1	2.01	0.95
1:A:592:LYS:CE	1:A:1596:GLU:OE2	2.15	0.94
1:C:592:LYS:CE	1:C:1596:GLU:OE2	2.15	0.94
1:C:716:PHE:CD2	1:C:717:ASP:HB3	2.02	0.94
1:C:4686:LEU:CA	1:C:4690:GLU:HB2	1.97	0.94
1:C:4901:ILE:HD13	1:C:4913:ARG:CZ	1.97	0.94
1:G:4686:LEU:CG	1:G:4687:TYR:CD1	2.50	0.94
1:E:592:LYS:CE	1:E:1596:GLU:OE2	2.15	0.94
1:E:45:ARG:HH21	1:E:116:MET:CE	1.80	0.94
1:C:1767:VAL:O	1:C:1769:THR:HG23	1.66	0.94
1:G:1848:LEU:HD12	1:G:1853:ILE:HD12	1.49	0.94
1:C:45:ARG:HH21	1:C:116:MET:CE	1.80	0.94
1:C:1478:ASP:O	1:C:1480:GLN:N	1.99	0.94
1:E:1478:ASP:O	1:E:1480:GLN:N	1.99	0.94
1:G:1018:ASN:HB3	1:G:1021:LEU:HD21	0.97	0.94
1:A:3670:GLU:HG2	1:A:3728:ILE:CG2	1.98	0.94
1:A:4901:ILE:HD13	1:A:4913:ARG:CZ	1.97	0.94
1:E:3839:CYS:SG	1:E:3881:THR:CB	2.55	0.94
1:G:45:ARG:HH21	1:G:116:MET:CE	1.80	0.94
1:G:3670:GLU:HG2	1:G:3728:ILE:CG2	1.98	0.94
1:G:592:LYS:CE	1:G:1596:GLU:OE2	2.15	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1478:ASP:O	1:G:1480:GLN:N	1.99	0.94
1:E:716:PHE:CD2	1:E:717:ASP:HB3	2.02	0.94
1:G:1767:VAL:O	1:G:1769:THR:HG23	1.66	0.94
1:A:716:PHE:CD2	1:A:717:ASP:HB3	2.02	0.93
1:A:1767:VAL:O	1:A:1769:THR:HG23	1.66	0.93
1:C:4904:PRO:CB	1:C:4910:GLU:HB2	1.96	0.93
1:E:125:ARG:CB	1:E:134:ASP:OD1	2.17	0.93
1:G:4901:ILE:HD13	1:G:4913:ARG:CZ	1.97	0.93
1:A:45:ARG:HH21	1:A:116:MET:CE	1.80	0.93
1:A:1743:ARG:HB2	1:A:1963:GLU:HG2	1.50	0.93
1:E:1961:PHE:HZ	1:E:2063:LEU:HD23	1.11	0.93
1:E:1965:TYR:CE1	1:E:1969:LEU:HB2	2.04	0.93
1:E:4904:PRO:CB	1:E:4910:GLU:HB2	1.96	0.93
1:G:3839:CYS:SG	1:G:3881:THR:CB	2.55	0.93
1:C:125:ARG:CB	1:C:134:ASP:OD1	2.17	0.93
1:C:1848:LEU:HD12	1:C:1853:ILE:HD12	1.49	0.93
1:E:1131:ARG:CD	1:E:1139:PHE:HB2	1.98	0.93
1:E:1848:LEU:HD12	1:E:1853:ILE:HD12	1.49	0.93
1:E:4901:ILE:HD13	1:E:4913:ARG:CZ	1.97	0.93
1:G:4686:LEU:CA	1:G:4690:GLU:HB2	1.97	0.93
2:D:24:VAL:HG12	2:D:103:LEU:HA	1.51	0.93
1:E:3670:GLU:HG2	1:E:3728:ILE:CG2	1.98	0.93
2:H:24:VAL:HG12	2:H:103:LEU:HA	1.51	0.93
1:C:3670:GLU:HG2	1:C:3728:ILE:CG2	1.98	0.93
1:G:682:LEU:HD12	1:G:783:PHE:CA	1.99	0.93
1:A:4686:LEU:HG	1:A:4687:TYR:HD1	1.30	0.93
1:G:716:PHE:CD2	1:G:717:ASP:HB3	2.02	0.93
1:G:1965:TYR:CE1	1:G:1969:LEU:HB2	2.04	0.93
1:G:4904:PRO:CB	1:G:4910:GLU:HB2	1.96	0.93
1:C:4686:LEU:HG	1:C:4687:TYR:HD1	1.30	0.93
1:C:4904:PRO:HG2	1:C:4910:GLU:HG2	1.51	0.93
1:E:682:LEU:HD12	1:E:783:PHE:CA	1.99	0.93
1:G:125:ARG:CB	1:G:134:ASP:OD1	2.17	0.93
1:A:1131:ARG:CD	1:A:1139:PHE:HB2	1.98	0.92
1:C:1965:TYR:CE1	1:C:1969:LEU:HB2	2.04	0.92
1:E:4904:PRO:HG2	1:E:4910:GLU:HG2	1.51	0.92
1:A:125:ARG:CB	1:A:134:ASP:OD1	2.17	0.92
1:A:4083:ASP:OD2	1:A:4087:LEU:O	1.87	0.92
1:E:4686:LEU:CG	1:E:4687:TYR:CD1	2.50	0.92
1:G:3670:GLU:CG	1:G:3728:ILE:HG23	1.99	0.92
1:C:1131:ARG:CD	1:C:1139:PHE:HB2	1.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4083:ASP:OD2	1:C:4087:LEU:O	1.87	0.92
2:B:24:VAL:HG12	2:B:103:LEU:HA	1.51	0.92
1:E:1448:VAL:HG13	1:E:1554:VAL:CG2	2.00	0.92
1:E:4961:CYS:HG	3:E:6000:ZN:ZN	0.67	0.92
2:F:24:VAL:HG12	2:F:103:LEU:HA	1.51	0.92
1:G:1131:ARG:CD	1:G:1139:PHE:HB2	1.98	0.92
1:G:1448:VAL:HG13	1:G:1554:VAL:CG2	2.00	0.92
1:G:4686:LEU:HG	1:G:4687:TYR:HD1	1.30	0.92
1:G:1452:TRP:CB	1:G:1527:MET:HE1	1.99	0.92
1:A:682:LEU:HD12	1:A:783:PHE:CA	1.99	0.92
1:E:1452:TRP:CB	1:E:1527:MET:HE1	1.99	0.92
1:A:1848:LEU:HD12	1:A:1853:ILE:HD12	1.49	0.92
1:C:1286:MET:HE1	1:C:1555:LEU:CD1	1.96	0.92
1:G:1743:ARG:HB2	1:G:1963:GLU:HG2	1.50	0.92
1:A:4904:PRO:CB	1:A:4910:GLU:HB2	1.96	0.92
1:C:1448:VAL:HG13	1:C:1554:VAL:CG2	2.00	0.91
1:C:4195:PHE:CE1	1:C:4197:ILE:CG1	2.50	0.91
1:A:1965:TYR:CE1	1:A:1969:LEU:HB2	2.04	0.91
1:E:4686:LEU:CA	1:E:4690:GLU:HB2	1.97	0.91
1:C:3670:GLU:CG	1:C:3728:ILE:HG23	1.99	0.91
1:E:2198:MET:HE3	1:E:2203:MET:HE3	1.50	0.91
1:A:1122:TYR:HE1	1:A:1133:HIS:CE1	1.69	0.91
1:C:1285:GLU:HG2	1:C:1286:MET:HG2	1.53	0.91
1:A:1285:GLU:HG2	1:A:1286:MET:HG2	1.53	0.91
1:A:1772:ARG:HH12	1:A:1952:GLN:HE22	1.18	0.91
1:E:3670:GLU:CG	1:E:3728:ILE:HG23	1.99	0.91
1:G:1122:TYR:HD1	1:G:1133:HIS:HD1	1.13	0.91
1:G:1297:PHE:CD1	1:G:1520:VAL:HG22	2.06	0.91
1:C:682:LEU:HD12	1:C:783:PHE:CA	1.99	0.91
1:E:1285:GLU:HG2	1:E:1286:MET:HG2	1.53	0.91
1:G:4961:CYS:HG	3:G:6000:ZN:ZN	0.67	0.91
1:E:49:LEU:HD11	1:E:189:LEU:HB2	1.48	0.91
1:E:1743:ARG:HB2	1:E:1963:GLU:HG2	1.50	0.91
1:E:4083:ASP:OD2	1:E:4087:LEU:O	1.87	0.91
1:E:1122:TYR:HD1	1:E:1133:HIS:HD1	1.13	0.91
1:A:4686:LEU:CA	1:A:4690:GLU:HB2	1.97	0.91
1:G:4083:ASP:OD2	1:G:4087:LEU:O	1.87	0.91
1:G:4904:PRO:HG2	1:G:4910:GLU:HG2	1.51	0.91
1:A:1122:TYR:HE1	1:A:1133:HIS:ND1	1.55	0.90
1:C:46:LEU:HD12	1:C:125:ARG:CZ	2.02	0.90
1:C:1297:PHE:CD1	1:C:1520:VAL:HG22	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:592:LYS:CE	1:G:1596:GLU:CD	2.39	0.90
1:A:273:HIS:CE1	1:A:334:MET:CE	2.54	0.90
1:C:592:LYS:CE	1:C:1596:GLU:CD	2.39	0.90
1:C:1122:TYR:CE1	1:C:1133:HIS:HE1	1.88	0.90
1:E:1297:PHE:CD1	1:E:1520:VAL:HG22	2.06	0.90
1:G:1772:ARG:HH12	1:G:1952:GLN:HE22	1.18	0.90
1:A:1297:PHE:CD1	1:A:1520:VAL:HG22	2.06	0.90
1:C:1743:ARG:HB2	1:C:1963:GLU:HG2	1.50	0.90
1:C:1965:TYR:CE1	1:C:1969:LEU:HD22	2.07	0.90
1:E:46:LEU:HD12	1:E:125:ARG:CZ	2.02	0.90
1:E:1763:PRO:HD2	1:E:1863:LEU:HD11	0.91	0.90
1:E:4686:LEU:HG	1:E:4687:TYR:HD1	1.30	0.90
1:A:3670:GLU:CG	1:A:3728:ILE:HG23	1.99	0.90
1:C:1122:TYR:HE1	1:C:1133:HIS:CE1	1.69	0.90
1:E:4195:PHE:CE1	1:E:4197:ILE:CG1	2.50	0.90
1:G:273:HIS:CE1	1:G:334:MET:CE	2.54	0.90
1:A:592:LYS:CE	1:A:1596:GLU:CD	2.39	0.90
1:A:4904:PRO:HG2	1:A:4910:GLU:HG2	1.51	0.90
1:C:716:PHE:CE2	1:C:717:ASP:HB2	2.07	0.90
1:E:592:LYS:CE	1:E:1596:GLU:CD	2.39	0.90
1:E:1286:MET:HE3	1:E:1555:LEU:HD11	1.51	0.90
1:E:273:HIS:CE1	1:E:334:MET:CE	2.54	0.90
1:G:554:LEU:HD21	1:G:1597:VAL:HG23	1.52	0.90
1:G:1285:GLU:HG2	1:G:1286:MET:HG2	1.53	0.90
1:A:554:LEU:HD21	1:A:1597:VAL:HG23	1.52	0.90
1:C:1763:PRO:HD2	1:C:1863:LEU:HD11	0.91	0.90
1:C:2198:MET:HE3	1:C:2203:MET:HE3	1.54	0.90
1:A:125:ARG:CD	1:A:134:ASP:OD2	2.20	0.89
1:C:273:HIS:CE1	1:C:334:MET:CE	2.54	0.89
1:E:4010:ILE:HD12	1:E:4011:GLU:H	1.33	0.89
1:A:1965:TYR:CE1	1:A:1969:LEU:HD22	2.07	0.89
1:E:554:LEU:HD21	1:E:1597:VAL:HG23	1.52	0.89
1:G:4010:ILE:HD12	1:G:4011:GLU:H	1.33	0.89
1:A:46:LEU:HD12	1:A:125:ARG:CZ	2.02	0.89
1:E:125:ARG:CD	1:E:134:ASP:OD2	2.20	0.89
1:A:1961:PHE:HZ	1:A:2063:LEU:HD23	1.11	0.89
1:C:554:LEU:HD21	1:C:1597:VAL:HG23	1.52	0.89
1:C:1961:PHE:HZ	1:C:2063:LEU:HD23	1.11	0.89
2:F:26:TYR:H	2:F:39:SER:CB	1.86	0.89
1:G:1965:TYR:CE1	1:G:1969:LEU:HD22	2.07	0.89
1:E:1122:TYR:CE1	1:E:1133:HIS:HE1	1.88	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4686:LEU:HA	1:G:4690:GLU:CB	2.00	0.89
1:A:20:VAL:HG12	1:A:204:PRO:HA	1.54	0.89
1:A:1448:VAL:HG13	1:A:1554:VAL:CG2	2.00	0.89
1:C:596:ASN:HB3	1:C:599:VAL:HG23	1.54	0.89
1:G:46:LEU:HD12	1:G:125:ARG:CZ	2.02	0.89
1:G:125:ARG:CD	1:G:134:ASP:OD2	2.20	0.89
1:A:1286:MET:HE3	1:A:1555:LEU:CD1	1.96	0.89
1:C:1479:GLU:OE1	1:C:1480:GLN:N	2.06	0.89
1:C:4686:LEU:HA	1:C:4690:GLU:CB	2.00	0.89
2:D:26:TYR:H	2:D:39:SER:CB	1.86	0.89
1:A:596:ASN:HB3	1:A:599:VAL:HG23	1.54	0.89
2:H:26:TYR:H	2:H:39:SER:CB	1.86	0.89
1:C:125:ARG:CD	1:C:134:ASP:OD2	2.20	0.89
1:E:1479:GLU:OE1	1:E:1480:GLN:N	2.06	0.89
1:E:4686:LEU:HA	1:E:4690:GLU:CB	2.00	0.89
1:C:1772:ARG:HH12	1:C:1952:GLN:HE22	1.18	0.88
1:A:1763:PRO:HD2	1:A:1863:LEU:HD11	0.91	0.88
1:C:20:VAL:HG12	1:C:204:PRO:HA	1.54	0.88
1:C:1297:PHE:HE1	1:C:1520:VAL:CG2	1.80	0.88
1:G:1297:PHE:HE1	1:G:1520:VAL:CG2	1.80	0.88
2:B:26:TYR:H	2:B:39:SER:CB	1.86	0.88
1:E:596:ASN:HB3	1:E:599:VAL:HG23	1.54	0.88
1:G:20:VAL:HG12	1:G:204:PRO:HA	1.54	0.88
1:G:596:ASN:HB3	1:G:599:VAL:HG23	1.54	0.88
1:A:716:PHE:CE2	1:A:717:ASP:HB2	2.07	0.88
1:A:4686:LEU:CD2	1:A:4687:TYR:CD1	2.57	0.88
1:A:1479:GLU:OE1	1:A:1480:GLN:N	2.06	0.88
1:E:1772:ARG:HH12	1:E:1952:GLN:HE22	1.18	0.88
1:G:1763:PRO:HD2	1:G:1863:LEU:HD11	0.91	0.88
1:G:4686:LEU:CD2	1:G:4687:TYR:CD1	2.57	0.88
1:E:1965:TYR:CE1	1:E:1969:LEU:HD22	2.07	0.88
1:E:3842:LEU:HB3	1:E:3929:SER:HB3	1.56	0.88
1:C:1122:TYR:HE1	1:C:1133:HIS:ND1	1.55	0.87
1:E:4904:PRO:HD3	1:E:4913:ARG:HD3	1.56	0.87
1:G:682:LEU:HD11	1:G:783:PHE:HB2	1.56	0.87
1:G:716:PHE:CE2	1:G:717:ASP:HB2	2.07	0.87
1:A:49:LEU:CD1	1:A:189:LEU:C	2.30	0.87
1:C:4686:LEU:CD2	1:C:4687:TYR:CD1	2.57	0.87
1:E:4010:ILE:CD1	1:E:4011:GLU:N	2.36	0.87
2:F:26:TYR:O	2:F:39:SER:OG	1.91	0.87
1:G:4961:CYS:SG	3:G:6000:ZN:ZN	1.64	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4195:PHE:CE1	1:A:4197:ILE:CG1	2.50	0.87
1:E:4961:CYS:SG	3:E:6000:ZN:ZN	1.64	0.87
1:G:716:PHE:CG	1:G:717:ASP:N	2.32	0.87
2:H:26:TYR:O	2:H:39:SER:OG	1.91	0.87
1:A:4961:CYS:SG	3:A:6000:ZN:ZN	1.64	0.87
1:G:3842:LEU:HB3	1:G:3929:SER:HB3	1.56	0.87
1:E:20:VAL:HG12	1:E:204:PRO:HA	1.54	0.87
1:A:4010:ILE:HD12	1:A:4011:GLU:H	1.33	0.87
2:D:26:TYR:O	2:D:39:SER:OG	1.91	0.87
1:G:1598:GLN:O	1:G:1600:LEU:N	2.08	0.87
1:C:4904:PRO:HD3	1:C:4913:ARG:HD3	1.56	0.86
1:E:716:PHE:CE2	1:E:717:ASP:HB2	2.07	0.86
1:E:4686:LEU:CD2	1:E:4687:TYR:CD1	2.57	0.86
1:G:1961:PHE:HZ	1:G:2063:LEU:HD23	1.11	0.86
1:A:682:LEU:HD11	1:A:783:PHE:HB2	1.56	0.86
1:C:49:LEU:CD1	1:C:189:LEU:C	2.30	0.86
1:C:682:LEU:HD11	1:C:783:PHE:HB2	1.56	0.86
1:C:3842:LEU:HB3	1:C:3929:SER:HB3	1.56	0.86
1:G:1479:GLU:OE1	1:G:1480:GLN:N	2.06	0.86
1:A:683:ARG:HD2	1:A:705:ASN:HB3	1.57	0.86
1:A:1598:GLN:O	1:A:1600:LEU:N	2.08	0.86
2:B:26:TYR:O	2:B:39:SER:OG	1.91	0.86
1:G:49:LEU:CD1	1:G:189:LEU:C	2.30	0.86
1:G:683:ARG:HD2	1:G:705:ASN:HB3	1.57	0.86
1:C:1516:ILE:CB	1:C:1530:THR:OG1	2.24	0.86
1:G:4904:PRO:CB	1:G:4910:GLU:HA	2.06	0.86
1:C:1452:TRP:O	1:C:1493:UNK:CB	2.24	0.86
1:G:515:TRP:CZ3	1:G:555:GLU:CG	2.59	0.86
1:G:1452:TRP:O	1:G:1493:UNK:CB	2.24	0.86
1:G:3669:PHE:HD1	1:G:3670:GLU:H	1.22	0.86
1:A:4904:PRO:HD3	1:A:4913:ARG:HD3	1.56	0.86
1:A:515:TRP:CZ3	1:A:555:GLU:CG	2.59	0.86
1:A:1516:ILE:CB	1:A:1530:THR:OG1	2.24	0.86
1:C:515:TRP:CZ3	1:C:555:GLU:CG	2.59	0.86
1:E:4686:LEU:CG	1:E:4687:TYR:HD1	1.87	0.86
1:G:1516:ILE:CB	1:G:1530:THR:OG1	2.24	0.86
1:A:1122:TYR:CE1	1:A:1133:HIS:HE1	1.88	0.86
1:A:1297:PHE:HE1	1:A:1520:VAL:CG2	1.80	0.86
1:A:1452:TRP:O	1:A:1493:UNK:CB	2.24	0.86
1:E:682:LEU:HD11	1:E:783:PHE:HB2	1.56	0.86
1:C:4961:CYS:SG	3:C:6000:ZN:ZN	1.64	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1286:MET:H	1:E:1555:LEU:HD12	1.41	0.85
1:E:1516:ILE:CB	1:E:1530:THR:OG1	2.24	0.85
1:G:4195:PHE:CE1	1:G:4197:ILE:CG1	2.50	0.85
1:C:4904:PRO:CB	1:C:4910:GLU:HA	2.06	0.85
1:E:683:ARG:HD2	1:E:705:ASN:HB3	1.57	0.85
1:E:1598:GLN:O	1:E:1600:LEU:N	2.08	0.85
1:E:721:LEU:CD2	1:E:767:VAL:HG11	2.06	0.85
1:E:1452:TRP:O	1:E:1493:UNK:CB	2.24	0.85
1:G:1286:MET:H	1:G:1555:LEU:HD12	1.41	0.85
1:G:1122:TYR:HE1	1:G:1133:HIS:ND1	1.55	0.85
1:G:4686:LEU:CG	1:G:4687:TYR:HD1	1.87	0.85
1:A:3842:LEU:HB3	1:A:3929:SER:HB3	1.56	0.85
1:G:4904:PRO:HD3	1:G:4913:ARG:HD3	1.56	0.85
1:E:4904:PRO:CB	1:E:4910:GLU:HA	2.06	0.85
1:E:1132:TRP:CD1	1:E:1136:SER:HA	2.12	0.85
1:E:1452:TRP:CD1	1:E:1527:MET:CE	2.60	0.85
1:G:805:PRO:HD2	1:G:806:PRO:N	1.91	0.85
1:A:4182:GLU:HG2	1:A:4192:ARG:HB3	1.58	0.85
1:A:4904:PRO:CB	1:A:4910:GLU:HA	2.06	0.85
1:C:1598:GLN:O	1:C:1600:LEU:N	2.08	0.85
1:A:1132:TRP:CD1	1:A:1136:SER:HA	2.12	0.85
2:B:40:ARG:O	2:B:43:ASN:N	2.10	0.85
1:C:1132:TRP:CD1	1:C:1136:SER:HA	2.12	0.85
1:E:49:LEU:CD1	1:E:189:LEU:CB	2.55	0.85
1:E:515:TRP:CZ3	1:E:555:GLU:CG	2.59	0.85
1:E:644:ILE:HG21	1:E:823:LEU:HB2	1.59	0.85
1:A:1762:LEU:HD12	1:A:1764:GLY:H	1.42	0.84
1:C:721:LEU:CD2	1:C:767:VAL:HG11	2.06	0.84
1:A:721:LEU:CD2	1:A:767:VAL:HG11	2.06	0.84
1:A:3669:PHE:HD1	1:A:3670:GLU:H	1.22	0.84
1:C:4182:GLU:HG2	1:C:4192:ARG:HB3	1.58	0.84
1:C:4692:PRO:CG	1:C:4700:GLN:NE2	2.41	0.84
2:D:40:ARG:O	2:D:43:ASN:N	2.10	0.84
1:G:1452:TRP:CG	1:G:1527:MET:HE1	2.13	0.84
1:G:1132:TRP:CD1	1:G:1136:SER:HA	2.12	0.84
1:C:644:ILE:HG21	1:C:823:LEU:HB2	1.59	0.84
1:C:805:PRO:HD2	1:C:806:PRO:N	1.91	0.84
1:E:805:PRO:HD2	1:E:806:PRO:N	1.91	0.84
1:E:1452:TRP:CG	1:E:1527:MET:HE1	2.13	0.84
1:E:1762:LEU:HD12	1:E:1764:GLY:H	1.42	0.84
1:A:805:PRO:HD2	1:A:806:PRO:N	1.91	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1452:TRP:CD1	1:A:1527:MET:CE	2.60	0.84
1:C:1452:TRP:CD1	1:C:1527:MET:CE	2.60	0.84
1:G:1452:TRP:CD1	1:G:1527:MET:CE	2.60	0.84
1:G:49:LEU:CD1	1:G:189:LEU:CB	2.55	0.84
2:H:40:ARG:O	2:H:43:ASN:N	2.10	0.84
1:C:49:LEU:CD1	1:C:189:LEU:CB	2.55	0.84
1:C:4898:GLY:HA2	1:C:4901:ILE:CG2	2.08	0.84
1:E:4898:GLY:HA2	1:E:4901:ILE:CG2	2.08	0.84
1:G:644:ILE:HG21	1:G:823:LEU:HB2	1.59	0.84
1:G:721:LEU:CD2	1:G:767:VAL:HG11	2.06	0.84
1:A:45:ARG:HH21	1:A:116:MET:HE1	1.40	0.84
1:G:4010:ILE:CD1	1:G:4011:GLU:N	2.36	0.84
1:A:1286:MET:H	1:A:1555:LEU:HD12	1.41	0.84
1:A:49:LEU:CD1	1:A:189:LEU:CB	2.55	0.84
1:C:4010:ILE:HD12	1:C:4011:GLU:H	1.33	0.83
1:C:4686:LEU:CD2	1:C:4687:TYR:HD1	1.90	0.83
1:E:49:LEU:HD11	1:E:189:LEU:O	1.46	0.83
1:E:716:PHE:CG	1:E:717:ASP:N	2.32	0.83
2:F:40:ARG:O	2:F:43:ASN:N	2.10	0.83
1:A:4898:GLY:HA2	1:A:4901:ILE:CG2	2.08	0.83
1:C:683:ARG:HD2	1:C:705:ASN:HB3	1.57	0.83
1:C:1762:LEU:HD12	1:C:1764:GLY:H	1.42	0.83
1:E:49:LEU:CD1	1:E:189:LEU:C	2.30	0.83
1:E:682:LEU:HD11	1:E:783:PHE:CB	2.08	0.83
1:E:1452:TRP:HB2	1:E:1527:MET:HE1	1.59	0.83
1:A:644:ILE:HG21	1:A:823:LEU:HB2	1.59	0.83
1:A:4693:GLY:C	1:A:4695:ASP:H	1.82	0.83
1:C:758:ARG:NH1	1:C:804:PRO:HB3	1.93	0.83
1:E:4010:ILE:O	1:E:4013:LEU:N	2.11	0.83
1:E:4692:PRO:CG	1:E:4700:GLN:NE2	2.41	0.83
1:G:4898:GLY:HA2	1:G:4901:ILE:CG2	2.08	0.83
1:A:4010:ILE:O	1:A:4013:LEU:N	2.11	0.83
1:C:682:LEU:HD11	1:C:783:PHE:CB	2.08	0.83
1:E:1297:PHE:HE1	1:E:1520:VAL:CG2	1.80	0.83
1:E:4686:LEU:CD2	1:E:4687:TYR:HD1	1.90	0.83
1:G:758:ARG:NH1	1:G:804:PRO:HB3	1.93	0.83
1:G:1122:TYR:CE1	1:G:1133:HIS:HE1	1.88	0.83
1:G:1452:TRP:HB2	1:G:1527:MET:HE1	1.59	0.83
1:G:4693:GLY:C	1:G:4695:ASP:H	1.82	0.83
1:A:1131:ARG:HD3	1:A:1139:PHE:CB	2.07	0.83
1:A:4010:ILE:CD1	1:A:4011:GLU:N	2.36	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1452:TRP:HB2	1:C:1527:MET:HE1	1.59	0.83
1:G:4010:ILE:O	1:G:4013:LEU:N	2.11	0.83
1:G:4182:GLU:HG2	1:G:4192:ARG:HB3	1.58	0.83
1:C:1286:MET:H	1:C:1555:LEU:HD12	1.41	0.83
1:G:716:PHE:CD2	1:G:717:ASP:CB	2.61	0.83
1:A:682:LEU:HD11	1:A:783:PHE:CB	2.08	0.83
1:A:2198:MET:HE3	1:A:2203:MET:HE3	1.58	0.83
1:E:758:ARG:NH1	1:E:804:PRO:HB3	1.93	0.83
1:A:1965:TYR:OH	1:A:1969:LEU:HD13	1.79	0.83
1:A:4686:LEU:CD2	1:A:4687:TYR:HD1	1.90	0.83
1:C:1848:LEU:CD2	1:C:1854:PHE:HZ	1.91	0.83
1:C:3669:PHE:HD1	1:C:3670:GLU:H	1.22	0.83
1:E:1131:ARG:HD3	1:E:1139:PHE:CB	2.07	0.83
1:G:1286:MET:HE3	1:G:1555:LEU:CD1	1.97	0.83
1:G:4686:LEU:CD2	1:G:4687:TYR:HD1	1.90	0.83
1:C:4010:ILE:CD1	1:C:4011:GLU:N	2.36	0.83
1:E:1733:GLU:OE2	1:E:2163:ARG:NH2	2.12	0.83
1:E:3669:PHE:HD1	1:E:3670:GLU:H	1.22	0.83
1:G:682:LEU:HD11	1:G:783:PHE:CB	2.08	0.83
1:G:1448:VAL:HG22	1:G:1554:VAL:HG13	1.60	0.83
1:G:1848:LEU:CD2	1:G:1854:PHE:HZ	1.91	0.83
1:G:4692:PRO:CG	1:G:4700:GLN:NE2	2.41	0.83
1:A:1848:LEU:CD2	1:A:1854:PHE:HZ	1.91	0.82
1:A:4181:ILE:HG23	1:A:4195:PHE:CD2	2.14	0.82
1:C:12:GLN:HB3	1:C:13:PHE:CE1	2.14	0.82
1:C:4686:LEU:CG	1:C:4687:TYR:HD1	1.87	0.82
1:E:4181:ILE:HG23	1:E:4195:PHE:CD2	2.14	0.82
1:C:1965:TYR:OH	1:C:1969:LEU:HD13	1.79	0.82
1:E:12:GLN:HB3	1:E:13:PHE:CE1	2.14	0.82
1:E:721:LEU:HD22	1:E:767:VAL:HG11	1.61	0.82
1:E:1448:VAL:HG22	1:E:1554:VAL:HG13	1.60	0.82
1:A:716:PHE:CG	1:A:717:ASP:N	2.32	0.82
1:A:758:ARG:NH1	1:A:804:PRO:HB3	1.93	0.82
1:C:721:LEU:HD22	1:C:767:VAL:HG11	1.61	0.82
1:G:1733:GLU:OE2	1:G:2163:ARG:NH2	2.12	0.82
1:G:4181:ILE:HG23	1:G:4195:PHE:CD2	2.14	0.82
1:A:4687:TYR:OH	1:A:4702:ASP:HB2	1.80	0.82
1:A:12:GLN:HB3	1:A:13:PHE:CE1	2.14	0.82
1:A:4686:LEU:CG	1:A:4687:TYR:HD1	1.87	0.82
1:C:2256:TYR:HD1	1:C:2260:ASN:HD21	1.28	0.82
1:A:716:PHE:CD2	1:A:717:ASP:CB	2.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1452:TRP:HB2	1:A:1527:MET:HE1	1.59	0.82
1:A:4686:LEU:HD21	1:A:4687:TYR:CD1	2.14	0.82
1:G:12:GLN:HB3	1:G:13:PHE:CE1	2.14	0.82
1:A:4692:PRO:CG	1:A:4700:GLN:NE2	2.41	0.82
1:E:1965:TYR:OH	1:E:1969:LEU:HD13	1.79	0.82
1:E:4687:TYR:OH	1:E:4702:ASP:HB2	1.80	0.82
1:C:4010:ILE:O	1:C:4013:LEU:N	2.11	0.82
1:E:1848:LEU:CD2	1:E:1854:PHE:HZ	1.91	0.82
1:E:4182:GLU:HG2	1:E:4192:ARG:HB3	1.58	0.82
1:A:1297:PHE:HE1	1:A:1520:VAL:HG22	1.01	0.81
1:A:1733:GLU:OE2	1:A:2163:ARG:NH2	2.12	0.81
1:E:3969:ILE:HD11	1:E:3980:LEU:HD13	1.61	0.81
1:A:1448:VAL:HG22	1:A:1554:VAL:HG13	1.60	0.81
1:C:1733:GLU:OE2	1:C:2163:ARG:NH2	2.12	0.81
1:C:4181:ILE:HG23	1:C:4195:PHE:CD2	2.14	0.81
1:C:4686:LEU:HD21	1:C:4687:TYR:CD1	2.14	0.81
1:G:1131:ARG:HD3	1:G:1139:PHE:CB	2.07	0.81
1:G:1762:LEU:HD12	1:G:1764:GLY:H	1.42	0.81
1:C:1131:ARG:HD3	1:C:1139:PHE:CB	2.07	0.81
1:G:1293:LEU:HB3	1:G:1584:ARG:HG2	1.62	0.81
1:G:1965:TYR:OH	1:G:1969:LEU:HD13	1.79	0.81
1:G:4686:LEU:HD21	1:G:4687:TYR:CD1	2.14	0.81
1:C:1448:VAL:HG22	1:C:1554:VAL:HG13	1.60	0.81
1:C:3969:ILE:HD11	1:C:3980:LEU:HD13	1.61	0.81
1:A:125:ARG:HD3	1:A:134:ASP:OD2	1.81	0.81
1:E:716:PHE:CD2	1:E:717:ASP:CB	2.61	0.81
1:E:4686:LEU:HD21	1:E:4687:TYR:CD1	2.14	0.81
1:A:3969:ILE:HD11	1:A:3980:LEU:HD13	1.61	0.81
1:G:125:ARG:HD3	1:G:134:ASP:OD2	1.81	0.81
1:E:125:ARG:HD3	1:E:134:ASP:OD2	1.81	0.81
1:G:598:LYS:HD2	1:G:598:LYS:N	1.96	0.81
1:G:4687:TYR:OH	1:G:4702:ASP:HB2	1.80	0.81
1:E:1808:ARG:CB	1:E:1854:PHE:CE1	2.64	0.81
1:A:721:LEU:HD23	1:A:767:VAL:CG1	2.11	0.81
1:A:4007:SER:O	1:A:4010:ILE:HG13	1.81	0.81
1:C:716:PHE:CD2	1:C:717:ASP:CB	2.61	0.81
1:C:1848:LEU:CD1	1:C:1853:ILE:HD12	2.11	0.81
1:C:4687:TYR:OH	1:C:4702:ASP:HB2	1.80	0.81
1:E:1293:LEU:HB3	1:E:1584:ARG:HG2	1.62	0.81
1:E:3970:GLN:HA	1:E:3970:GLN:NE2	1.96	0.81
1:A:1293:LEU:HB3	1:A:1584:ARG:HG2	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3970:GLN:HA	1:A:3970:GLN:NE2	1.96	0.80
2:F:26:TYR:CD1	2:F:39:SER:HB3	2.17	0.80
1:G:1297:PHE:HE1	1:G:1520:VAL:HG22	1.01	0.80
1:G:1848:LEU:CD1	1:G:1853:ILE:HD12	2.11	0.80
1:C:125:ARG:HD3	1:C:134:ASP:OD2	1.81	0.80
1:G:4195:PHE:HE1	1:G:4197:ILE:HG12	1.45	0.80
1:C:4007:SER:O	1:C:4010:ILE:HG13	1.81	0.80
1:E:195:PHE:HE1	1:G:2358:ILE:CG2	1.95	0.80
1:E:841:GLY:HA2	1:E:843:SER:H	1.45	0.80
1:A:1743:ARG:CG	1:A:1963:GLU:HG3	2.12	0.80
1:A:2256:TYR:HD1	1:A:2260:ASN:HD21	1.28	0.80
1:E:597:HIS:CD2	1:E:1661:ARG:HD3	2.16	0.80
1:E:721:LEU:HD23	1:E:767:VAL:CG1	2.11	0.80
2:H:26:TYR:CD1	2:H:39:SER:HB3	2.17	0.80
1:C:596:ASN:CB	1:C:599:VAL:HG23	2.12	0.80
1:E:598:LYS:HD2	1:E:598:LYS:N	1.96	0.80
1:E:2256:TYR:HD1	1:E:2260:ASN:HD21	1.28	0.80
1:G:3970:GLN:HA	1:G:3970:GLN:NE2	1.96	0.80
1:A:4195:PHE:HE1	1:A:4197:ILE:HG12	1.45	0.80
1:C:597:HIS:CD2	1:C:1661:ARG:HD3	2.16	0.80
1:E:596:ASN:CB	1:E:599:VAL:HG23	2.12	0.80
1:G:4904:PRO:CB	1:G:4910:GLU:CA	2.60	0.80
1:C:1452:TRP:CD1	1:C:1527:MET:HE3	2.17	0.80
1:E:1286:MET:CE	1:E:1555:LEU:HD11	2.05	0.80
1:A:4686:LEU:CD1	1:A:4687:TYR:CE1	2.65	0.80
1:E:45:ARG:NH2	1:E:116:MET:CE	2.45	0.80
1:E:1848:LEU:CD1	1:E:1853:ILE:HD12	2.11	0.80
1:G:1808:ARG:CB	1:G:1854:PHE:HE1	1.95	0.80
1:G:1808:ARG:CB	1:G:1854:PHE:CE1	2.64	0.80
1:A:596:ASN:CB	1:A:599:VAL:HG23	2.12	0.80
1:C:4214:LYS:HE2	1:C:4985:LEU:HD23	1.64	0.80
1:E:600:LEU:HD23	1:E:1665:HIS:O	1.82	0.80
1:G:3969:ILE:HD11	1:G:3980:LEU:HD13	1.61	0.80
1:A:45:ARG:NH2	1:A:116:MET:CE	2.45	0.80
1:A:597:HIS:CD2	1:A:1661:ARG:HD3	2.16	0.80
1:A:721:LEU:HD22	1:A:767:VAL:HG11	1.61	0.80
1:A:841:GLY:HA2	1:A:843:SER:H	1.45	0.80
1:A:3839:CYS:SG	1:A:3881:THR:HG21	2.22	0.80
1:A:4686:LEU:HA	1:A:4690:GLU:CB	2.00	0.80
1:C:841:GLY:HA2	1:C:843:SER:H	1.45	0.80
1:C:1743:ARG:HG3	1:C:1963:GLU:HG3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3970:GLN:HA	1:C:3970:GLN:NE2	1.96	0.80
1:E:4007:SER:O	1:E:4010:ILE:HG13	1.81	0.80
1:E:4179:GLY:O	1:E:4195:PHE:CD2	2.35	0.80
1:G:597:HIS:CD2	1:G:1661:ARG:HD3	2.16	0.80
1:G:721:LEU:HD23	1:G:767:VAL:CG1	2.11	0.80
1:A:1808:ARG:CB	1:A:1854:PHE:CE1	2.64	0.79
1:A:1848:LEU:CD1	1:A:1853:ILE:HD12	2.11	0.79
1:C:598:LYS:HD2	1:C:598:LYS:N	1.96	0.79
1:C:4928:LEU:HD23	1:C:4931:ILE:HD12	1.64	0.79
1:E:4904:PRO:CB	1:E:4910:GLU:CA	2.60	0.79
1:G:596:ASN:CB	1:G:599:VAL:HG23	2.12	0.79
1:A:598:LYS:HD2	1:A:598:LYS:N	1.96	0.79
1:A:1808:ARG:CB	1:A:1854:PHE:HE1	1.95	0.79
1:A:4904:PRO:CB	1:A:4910:GLU:CA	2.60	0.79
2:B:26:TYR:CD1	2:B:39:SER:HB3	2.17	0.79
1:C:45:ARG:HH21	1:C:116:MET:HE1	1.46	0.79
1:C:721:LEU:HD23	1:C:767:VAL:CG1	2.11	0.79
1:C:1211:LEU:HD23	1:C:1212:ARG:H	1.48	0.79
1:C:1808:ARG:CB	1:C:1854:PHE:CE1	2.64	0.79
1:E:1297:PHE:HB2	1:E:1545:ASN:HA	1.64	0.79
1:C:4179:GLY:O	1:C:4195:PHE:CD2	2.35	0.79
1:E:1743:ARG:HG3	1:E:1963:GLU:HG3	1.64	0.79
1:G:516:LYS:HG3	1:G:555:GLU:OE2	1.82	0.79
1:C:1743:ARG:CG	1:C:1963:GLU:HG3	2.12	0.79
1:C:1808:ARG:CB	1:C:1854:PHE:HE1	1.95	0.79
2:D:26:TYR:CD1	2:D:39:SER:HB3	2.17	0.79
1:E:1211:LEU:HD23	1:E:1212:ARG:H	1.48	0.79
1:E:1808:ARG:CB	1:E:1854:PHE:HE1	1.95	0.79
1:A:4179:GLY:O	1:A:4195:PHE:CD2	2.35	0.79
1:C:1297:PHE:HB2	1:C:1545:ASN:HA	1.64	0.79
1:C:4686:LEU:CD1	1:C:4687:TYR:CE1	2.65	0.79
1:G:2256:TYR:HD1	1:G:2260:ASN:HD21	1.28	0.79
1:A:516:LYS:HG3	1:A:555:GLU:OE2	1.82	0.79
1:A:646:PRO:CB	1:A:793:LEU:HD11	2.13	0.79
1:A:4934:GLY:HA3	1:C:4937:ILE:HG12	1.65	0.79
1:E:1818:ALA:HB1	1:E:1838:PHE:HE1	1.48	0.79
1:E:4214:LYS:HE2	1:E:4985:LEU:HD23	1.64	0.79
1:E:4928:LEU:HD23	1:E:4931:ILE:HD12	1.64	0.79
1:G:1211:LEU:HD23	1:G:1212:ARG:H	1.48	0.79
1:G:1297:PHE:HB2	1:G:1545:ASN:HA	1.64	0.79
1:G:1743:ARG:CG	1:G:1963:GLU:HG3	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4007:SER:O	1:G:4010:ILE:HG13	1.81	0.79
1:A:684:VAL:N	1:A:714:TYR:O	2.12	0.79
1:C:1293:LEU:HB3	1:C:1584:ARG:HG2	1.62	0.79
1:G:1818:ALA:HB1	1:G:1838:PHE:HE1	1.48	0.79
1:G:4179:GLY:O	1:G:4195:PHE:CD2	2.35	0.79
1:A:1780:PRO:HG2	2:B:42:ARG:HE	1.47	0.79
1:C:2533:ALA:HA	1:C:2550:LEU:HD22	1.65	0.79
1:E:1743:ARG:CG	1:E:1963:GLU:HG3	2.12	0.79
1:G:4686:LEU:CD1	1:G:4687:TYR:CE1	2.65	0.79
1:A:2358:ILE:CG2	1:G:195:PHE:HE1	1.95	0.79
1:C:716:PHE:CG	1:C:717:ASP:N	2.32	0.79
1:G:600:LEU:HD23	1:G:1665:HIS:O	1.82	0.79
1:A:1211:LEU:HD23	1:A:1212:ARG:H	1.48	0.79
1:A:4904:PRO:HB2	1:A:4910:GLU:CA	2.13	0.79
1:C:4904:PRO:CB	1:C:4910:GLU:CA	2.60	0.79
1:G:1780:PRO:HG2	2:H:42:ARG:HE	1.47	0.79
1:C:600:LEU:HD23	1:C:1665:HIS:O	1.82	0.78
1:E:4686:LEU:CD1	1:E:4687:TYR:CE1	2.65	0.78
1:G:45:ARG:NH2	1:G:116:MET:CE	2.45	0.78
1:G:841:GLY:HA2	1:G:843:SER:H	1.45	0.78
1:G:4904:PRO:HB2	1:G:4910:GLU:CA	2.13	0.78
1:A:600:LEU:HD23	1:A:1665:HIS:O	1.82	0.78
1:A:835:ARG:HH22	1:A:1211:LEU:HD13	1.47	0.78
1:C:45:ARG:NH2	1:C:116:MET:CE	2.45	0.78
1:C:516:LYS:HG3	1:C:555:GLU:OE2	1.82	0.78
1:C:1452:TRP:HB2	1:C:1527:MET:CE	2.13	0.78
1:C:1818:ALA:HB1	1:C:1838:PHE:HE1	1.48	0.78
1:C:2198:MET:CE	1:C:2203:MET:HE1	2.11	0.78
1:C:4934:GLY:HA3	1:E:4937:ILE:HG12	1.65	0.78
1:G:646:PRO:CB	1:G:793:LEU:HD11	2.13	0.78
1:A:1818:ALA:HB1	1:A:1838:PHE:HE1	1.48	0.78
1:E:45:ARG:HH21	1:E:116:MET:HE1	1.46	0.78
1:E:4182:GLU:HG2	1:E:4192:ARG:CB	2.13	0.78
1:G:45:ARG:HH21	1:G:116:MET:HE1	1.44	0.78
1:A:4182:GLU:HG2	1:A:4192:ARG:CB	2.13	0.78
1:E:2533:ALA:HA	1:E:2550:LEU:HD22	1.65	0.78
1:A:4937:ILE:HG12	1:G:4934:GLY:HA3	1.65	0.78
1:C:195:PHE:HE1	1:E:2358:ILE:CG2	1.95	0.78
1:E:516:LYS:HG3	1:E:555:GLU:OE2	1.82	0.78
1:E:2882:TYR:HB3	1:E:2919:ASP:OD2	1.83	0.78
1:C:1780:PRO:HG2	2:D:42:ARG:HE	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1452:TRP:HB2	1:E:1527:MET:CE	2.13	0.78
1:G:218:HIS:CE1	1:G:341:TYR:OH	2.37	0.78
1:G:4928:LEU:HD23	1:G:4931:ILE:HD12	1.64	0.78
1:A:195:PHE:HE1	1:C:2358:ILE:CG2	1.95	0.78
1:C:4693:GLY:C	1:C:4695:ASP:H	1.82	0.78
1:E:5017:ARG:HH11	1:E:5019:TRP:HZ2	1.31	0.78
1:C:2882:TYR:HB3	1:C:2919:ASP:OD2	1.83	0.78
1:C:4195:PHE:HE1	1:C:4197:ILE:HG12	1.45	0.78
1:E:3839:CYS:SG	1:E:3881:THR:HG21	2.22	0.78
1:A:597:HIS:CD2	1:A:1661:ARG:CD	2.67	0.78
1:C:597:HIS:CD2	1:C:1661:ARG:CD	2.67	0.78
1:C:684:VAL:N	1:C:714:TYR:O	2.12	0.78
1:G:597:HIS:CD2	1:G:1661:ARG:CD	2.67	0.78
1:C:592:LYS:HE2	1:C:1596:GLU:OE1	1.84	0.78
1:C:4182:GLU:HG2	1:C:4192:ARG:CB	2.13	0.78
1:E:1231:GLN:NE2	1:E:1824:GLN:OE1	2.18	0.78
1:G:3841:VAL:HG12	1:G:3842:LEU:N	1.99	0.78
1:G:5017:ARG:HH11	1:G:5019:TRP:HZ2	1.31	0.78
1:A:4692:PRO:CD	1:A:4703:ARG:HH21	1.92	0.77
1:E:4195:PHE:HE1	1:E:4197:ILE:HG12	1.45	0.77
1:E:4904:PRO:HB2	1:E:4910:GLU:CA	2.13	0.77
1:G:993:HIS:CE1	1:G:1020:ARG:O	2.38	0.77
1:G:1231:GLN:NE2	1:G:1824:GLN:OE1	2.18	0.77
1:G:3839:CYS:SG	1:G:3881:THR:HG21	2.22	0.77
1:G:4182:GLU:HG2	1:G:4192:ARG:CB	2.13	0.77
1:G:4214:LYS:HE2	1:G:4985:LEU:HD23	1.64	0.77
1:G:4686:LEU:HD21	1:G:4687:TYR:CE1	2.19	0.77
1:A:4182:GLU:OE2	1:A:4982:GLU:OE1	2.02	0.77
1:C:218:HIS:CE1	1:C:341:TYR:OH	2.37	0.77
1:E:592:LYS:HE2	1:E:1596:GLU:OE1	1.84	0.77
1:E:684:VAL:N	1:E:714:TYR:O	2.12	0.77
1:E:835:ARG:HH22	1:E:1211:LEU:HD13	1.47	0.77
1:G:684:VAL:N	1:G:714:TYR:O	2.12	0.77
1:G:1452:TRP:HB2	1:G:1527:MET:CE	2.13	0.77
1:G:2882:TYR:HB3	1:G:2919:ASP:OD2	1.83	0.77
1:A:1297:PHE:HB2	1:A:1545:ASN:HA	1.64	0.77
1:A:4182:GLU:HA	1:A:4192:ARG:HA	1.67	0.77
1:G:4680:LYS:HA	1:G:4684:ASP:HB2	1.66	0.77
1:A:1452:TRP:CD1	1:A:1527:MET:HE3	2.19	0.77
1:A:1762:LEU:HD12	1:A:1764:GLY:N	2.00	0.77
1:C:684:VAL:HG13	1:C:781:VAL:HG22	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4680:LYS:HA	1:C:4684:ASP:HB2	1.66	0.77
1:E:4934:GLY:HA3	1:G:4937:ILE:HG12	1.65	0.77
1:G:1743:ARG:HG3	1:G:1963:GLU:HG3	1.64	0.77
1:A:218:HIS:CE1	1:A:341:TYR:OH	2.37	0.77
1:A:2882:TYR:HB3	1:A:2919:ASP:OD2	1.83	0.77
1:A:3841:VAL:HG12	1:A:3842:LEU:N	1.99	0.77
1:A:4680:LYS:HA	1:A:4684:ASP:HB2	1.66	0.77
1:A:4686:LEU:HD21	1:A:4687:TYR:CE1	2.19	0.77
1:C:1231:GLN:NE2	1:C:1824:GLN:OE1	2.18	0.77
1:C:4904:PRO:HB2	1:C:4910:GLU:CA	2.13	0.77
1:E:4680:LYS:HA	1:E:4684:ASP:HB2	1.66	0.77
1:G:49:LEU:HD11	1:G:189:LEU:CB	2.14	0.77
1:G:1762:LEU:HD12	1:G:1764:GLY:N	2.00	0.77
1:A:993:HIS:CE1	1:A:1020:ARG:O	2.38	0.77
1:A:4928:LEU:HD23	1:A:4931:ILE:HD12	1.64	0.77
1:C:1762:LEU:HD12	1:C:1764:GLY:N	2.00	0.77
1:E:1780:PRO:HG2	2:F:42:ARG:HE	1.47	0.77
1:G:684:VAL:HG13	1:G:781:VAL:HG22	1.66	0.77
1:G:4182:GLU:OE2	1:G:4982:GLU:OE1	2.02	0.77
1:A:4984:ASN:O	1:A:4986:ALA:N	2.18	0.77
1:C:1297:PHE:HE1	1:C:1520:VAL:HG22	1.01	0.77
1:E:218:HIS:CE1	1:E:341:TYR:OH	2.37	0.77
1:E:597:HIS:CD2	1:E:1661:ARG:CD	2.67	0.77
1:E:993:HIS:CE1	1:E:1020:ARG:O	2.38	0.77
1:A:1452:TRP:HB2	1:A:1527:MET:CE	2.13	0.77
1:A:1743:ARG:HG3	1:A:1963:GLU:HG3	1.64	0.77
1:E:1762:LEU:HD12	1:E:1764:GLY:N	2.00	0.77
1:E:4182:GLU:HA	1:E:4192:ARG:HA	1.67	0.77
1:G:835:ARG:HH22	1:G:1211:LEU:HD13	1.47	0.77
1:G:1854:PHE:HB3	1:G:1858:ASP:HB2	1.67	0.77
1:G:4181:ILE:HD11	1:G:4991:PHE:CE2	2.20	0.77
1:A:1231:GLN:NE2	1:A:1824:GLN:OE1	2.18	0.77
1:A:1854:PHE:HB3	1:A:1858:ASP:HB2	1.67	0.77
1:A:4181:ILE:HD11	1:A:4991:PHE:CE2	2.20	0.77
1:C:835:ARG:HH22	1:C:1211:LEU:HD13	1.47	0.77
1:E:646:PRO:CB	1:E:793:LEU:HD11	2.13	0.77
1:E:4686:LEU:HD21	1:E:4687:TYR:CE1	2.19	0.77
1:G:1965:TYR:HE1	1:G:1969:LEU:CD2	1.97	0.77
1:G:4984:ASN:O	1:G:4986:ALA:N	2.18	0.77
1:A:4214:LYS:HE2	1:A:4985:LEU:HD23	1.64	0.77
1:C:646:PRO:CB	1:C:793:LEU:HD11	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4181:ILE:HD11	1:C:4991:PHE:CE2	2.20	0.77
1:C:4182:GLU:HA	1:C:4192:ARG:HA	1.67	0.77
1:G:592:LYS:HE2	1:G:1596:GLU:OE1	1.84	0.77
1:G:4182:GLU:HA	1:G:4192:ARG:HA	1.67	0.77
1:A:1965:TYR:HE1	1:A:1969:LEU:CD2	1.97	0.76
1:C:5017:ARG:HH11	1:C:5019:TRP:HZ2	1.31	0.76
1:E:4182:GLU:OE2	1:E:4982:GLU:OE1	2.02	0.76
1:E:4693:GLY:C	1:E:4695:ASP:H	1.82	0.76
1:A:592:LYS:HE2	1:A:1596:GLU:OE1	1.84	0.76
1:A:684:VAL:HG13	1:A:781:VAL:HG22	1.66	0.76
1:A:49:LEU:HD11	1:A:189:LEU:CB	2.14	0.76
1:C:4961:CYS:HG	3:C:6000:ZN:ZN	0.99	0.76
1:E:4181:ILE:HD11	1:E:4991:PHE:CE2	2.20	0.76
1:E:4692:PRO:CD	1:E:4703:ARG:HH21	1.92	0.76
1:G:2533:ALA:HA	1:G:2550:LEU:HD22	1.65	0.76
1:A:4904:PRO:HB3	1:A:4910:GLU:HA	1.68	0.76
1:C:4182:GLU:OE2	1:C:4982:GLU:OE1	2.02	0.76
1:E:49:LEU:HD11	1:E:189:LEU:CB	2.14	0.76
1:E:1735:ILE:HD11	1:E:2156:LEU:HD11	1.68	0.76
1:E:3841:VAL:HG12	1:E:3842:LEU:N	1.99	0.76
1:E:4680:LYS:O	1:E:4684:ASP:HB2	1.85	0.76
1:G:125:ARG:CB	1:G:134:ASP:OD2	2.32	0.76
1:G:3837:GLN:HA	1:G:3837:GLN:NE2	2.00	0.76
1:C:682:LEU:CD1	1:C:783:PHE:CA	2.62	0.76
1:C:993:HIS:CE1	1:C:1020:ARG:O	2.38	0.76
1:E:1965:TYR:HE1	1:E:1969:LEU:CD2	1.97	0.76
1:E:4187:SER:HB2	1:E:4189:ARG:HE	1.50	0.76
1:E:4862:PHE:HB3	1:E:4901:ILE:HG13	1.68	0.76
1:G:721:LEU:HD22	1:G:767:VAL:HG11	1.61	0.76
1:G:1703:LEU:HD12	1:G:1704:PRO:HD2	1.67	0.76
1:A:2533:ALA:HA	1:A:2550:LEU:HD22	1.65	0.76
1:A:3837:GLN:HA	1:A:3837:GLN:NE2	2.00	0.76
1:A:4862:PHE:HB3	1:A:4901:ILE:HG13	1.68	0.76
1:C:1735:ILE:HD11	1:C:2156:LEU:HD11	1.68	0.76
1:C:3980:LEU:HD21	1:C:3985:LEU:HD22	1.68	0.76
1:E:273:HIS:HE1	1:E:334:MET:HE1	1.48	0.76
1:C:3841:VAL:HG12	1:C:3842:LEU:N	1.99	0.76
1:C:4984:ASN:O	1:C:4986:ALA:N	2.18	0.76
1:E:49:LEU:CD2	1:E:191:VAL:HG23	2.16	0.76
1:A:5017:ARG:HH11	1:A:5019:TRP:HZ2	1.31	0.76
1:C:273:HIS:HE1	1:C:334:MET:HE1	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3980:LEU:HD21	1:E:3985:LEU:HD22	1.68	0.76
1:A:3980:LEU:HD21	1:A:3985:LEU:HD22	1.68	0.75
1:C:49:LEU:HD11	1:C:189:LEU:CB	2.14	0.75
1:C:4181:ILE:HG23	1:C:4195:PHE:HD2	1.51	0.75
1:C:4187:SER:HB2	1:C:4189:ARG:HE	1.50	0.75
1:C:4680:LYS:O	1:C:4684:ASP:HB2	1.85	0.75
1:C:4686:LEU:HD21	1:C:4687:TYR:CE1	2.19	0.75
1:C:4862:PHE:HB3	1:C:4901:ILE:HG13	1.68	0.75
1:E:667:MET:HB2	1:E:790:ARG:HB2	1.69	0.75
1:E:1297:PHE:HE1	1:E:1520:VAL:HG22	1.01	0.75
1:E:1452:TRP:HD1	1:E:1527:MET:HE3	1.50	0.75
1:A:667:MET:HB2	1:A:790:ARG:HB2	1.69	0.75
1:E:3837:GLN:NE2	1:E:3837:GLN:HA	2.00	0.75
1:E:4049:VAL:HG21	1:E:4159:ARG:HD3	1.69	0.75
1:E:4904:PRO:HB3	1:E:4910:GLU:HA	1.68	0.75
1:E:4984:ASN:O	1:E:4986:ALA:N	2.18	0.75
1:G:49:LEU:CD2	1:G:191:VAL:HG23	2.16	0.75
1:G:1477:GLY:HA2	1:G:1483:VAL:HA	1.69	0.75
1:G:4049:VAL:HG21	1:G:4159:ARG:HD3	1.69	0.75
1:G:4187:SER:HB2	1:G:4189:ARG:HE	1.50	0.75
1:A:4049:VAL:HG21	1:A:4159:ARG:HD3	1.69	0.75
1:C:49:LEU:CD2	1:C:191:VAL:HG23	2.16	0.75
1:E:125:ARG:CB	1:E:134:ASP:OD2	2.32	0.75
1:E:684:VAL:HG13	1:E:781:VAL:HG22	1.66	0.75
1:A:4680:LYS:O	1:A:4684:ASP:HB2	1.85	0.75
1:C:667:MET:HB2	1:C:790:ARG:HB2	1.69	0.75
1:C:3837:GLN:NE2	1:C:3837:GLN:HA	2.00	0.75
1:E:4904:PRO:CG	1:E:4910:GLU:CG	2.64	0.75
1:G:46:LEU:CD1	1:G:125:ARG:CZ	2.65	0.75
1:G:667:MET:HB2	1:G:790:ARG:HB2	1.69	0.75
1:A:46:LEU:CD1	1:A:125:ARG:CZ	2.65	0.75
1:A:1735:ILE:HD11	1:A:2156:LEU:HD11	1.68	0.75
1:E:1703:LEU:HD12	1:E:1704:PRO:HD2	1.67	0.75
1:G:4904:PRO:CG	1:G:4910:GLU:CG	2.64	0.75
1:C:3669:PHE:CE1	1:C:3670:GLU:OE1	2.40	0.75
1:E:46:LEU:CD1	1:E:125:ARG:CZ	2.65	0.75
1:G:3669:PHE:CE1	1:G:3670:GLU:OE1	2.40	0.75
1:C:1703:LEU:HD12	1:C:1704:PRO:HD2	1.67	0.75
1:C:4049:VAL:HG21	1:C:4159:ARG:HD3	1.69	0.75
1:C:4904:PRO:HB3	1:C:4910:GLU:HA	1.68	0.75
1:E:4990:PHE:HA	1:E:4993:MET:HG2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1735:ILE:HD11	1:G:2156:LEU:HD11	1.68	0.75
1:A:682:LEU:CD1	1:A:783:PHE:CA	2.62	0.75
1:A:4181:ILE:HG23	1:A:4195:PHE:HD2	1.51	0.75
1:A:4187:SER:HB2	1:A:4189:ARG:HE	1.50	0.75
1:C:46:LEU:CD1	1:C:125:ARG:CZ	2.65	0.75
1:C:161:GLU:CD	1:C:164:ARG:HH21	1.91	0.75
1:G:4680:LYS:O	1:G:4684:ASP:HB2	1.85	0.75
1:G:4862:PHE:HB3	1:G:4901:ILE:HG13	1.68	0.75
1:C:1767:VAL:O	1:C:1769:THR:CG2	2.35	0.74
1:E:758:ARG:HG2	1:E:763:PRO:HA	1.69	0.74
1:G:4686:LEU:CD1	1:G:4687:TYR:HE1	1.98	0.74
1:A:49:LEU:CD2	1:A:191:VAL:HG23	2.16	0.74
1:E:4994:TYR:HE2	1:E:5007:GLU:OE2	1.70	0.74
1:G:3906:GLN:HE21	1:G:3909:ASN:HD22	1.36	0.74
1:G:3980:LEU:HD21	1:G:3985:LEU:HD22	1.68	0.74
1:A:2882:TYR:CB	1:A:2919:ASP:OD2	2.35	0.74
1:A:3669:PHE:CE1	1:A:3670:GLU:OE1	2.40	0.74
1:A:3906:GLN:HE21	1:A:3909:ASN:HD22	1.36	0.74
1:C:125:ARG:CB	1:C:134:ASP:OD2	2.32	0.74
1:C:2882:TYR:CB	1:C:2919:ASP:OD2	2.35	0.74
1:E:4686:LEU:CD1	1:E:4687:TYR:HE1	1.98	0.74
1:G:1961:PHE:HZ	1:G:2063:LEU:HA	1.52	0.74
1:A:161:GLU:CD	1:A:164:ARG:HH21	1.91	0.74
1:C:758:ARG:HG2	1:C:763:PRO:HA	1.69	0.74
1:E:1961:PHE:HZ	1:E:2063:LEU:HA	1.52	0.74
1:E:4181:ILE:HG23	1:E:4195:PHE:HD2	1.51	0.74
1:G:4138:ASP:O	1:G:4142:ASN:ND2	2.21	0.74
1:G:4904:PRO:HB3	1:G:4910:GLU:HA	1.68	0.74
1:A:758:ARG:HG2	1:A:763:PRO:HA	1.69	0.74
1:A:4138:ASP:O	1:A:4142:ASN:ND2	2.21	0.74
1:C:1854:PHE:HB3	1:C:1858:ASP:HB2	1.67	0.74
1:C:1965:TYR:HE1	1:C:1969:LEU:CD2	1.97	0.74
1:C:3839:CYS:SG	1:C:3881:THR:HG21	2.22	0.74
1:E:1854:PHE:HB3	1:E:1858:ASP:HB2	1.67	0.74
1:G:830:ARG:HD3	1:G:1612:PHE:HZ	1.52	0.74
1:A:721:LEU:HD13	1:A:768:PHE:CE1	2.23	0.74
1:A:1830:VAL:HB	1:A:1837:GLN:HG2	1.70	0.74
1:A:4990:PHE:HA	1:A:4993:MET:HG2	1.69	0.74
1:C:1477:GLY:HA2	1:C:1483:VAL:HA	1.69	0.74
1:A:600:LEU:CD2	1:A:1665:HIS:C	2.56	0.74
1:A:1679:ASN:HB3	1:A:1799:SER:H	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1848:LEU:HG	1:A:1854:PHE:CZ	2.23	0.74
1:A:1961:PHE:HZ	1:A:2063:LEU:HA	1.52	0.74
1:G:1767:VAL:O	1:G:1769:THR:CG2	2.35	0.74
1:G:4181:ILE:HG23	1:G:4195:PHE:HD2	1.51	0.74
1:A:235:ALA:O	1:A:238:SER:OG	2.06	0.74
1:C:45:ARG:NH2	1:C:116:MET:HE2	2.03	0.74
1:C:183:SER:N	1:C:190:GLN:O	2.21	0.74
1:C:830:ARG:HD3	1:C:1612:PHE:HZ	1.52	0.74
1:G:1848:LEU:HG	1:G:1854:PHE:CZ	2.23	0.74
1:G:3839:CYS:SG	1:G:3881:THR:HB	2.27	0.74
1:A:1477:GLY:HA2	1:A:1483:VAL:HA	1.69	0.74
1:C:4994:TYR:HE2	1:C:5007:GLU:OE2	1.70	0.74
1:E:161:GLU:CD	1:E:164:ARG:HH21	1.91	0.74
1:E:183:SER:N	1:E:190:GLN:O	2.21	0.74
1:E:682:LEU:CD1	1:E:783:PHE:CA	2.62	0.74
1:E:830:ARG:HD3	1:E:1612:PHE:HZ	1.52	0.74
1:E:1830:VAL:HB	1:E:1837:GLN:HG2	1.70	0.74
1:A:1703:LEU:HD12	1:A:1704:PRO:HD2	1.67	0.74
1:C:1679:ASN:HB3	1:C:1799:SER:H	1.53	0.74
1:C:1848:LEU:HG	1:C:1854:PHE:CZ	2.23	0.74
1:E:3669:PHE:CE1	1:E:3670:GLU:OE1	2.40	0.74
1:G:183:SER:N	1:G:190:GLN:O	2.21	0.74
1:G:1830:VAL:HB	1:G:1837:GLN:HG2	1.70	0.74
1:G:2882:TYR:CB	1:G:2919:ASP:OD2	2.35	0.74
1:A:183:SER:N	1:A:190:GLN:O	2.21	0.73
1:G:600:LEU:HD23	1:G:1665:HIS:C	2.09	0.73
1:A:46:LEU:CD1	1:A:125:ARG:NE	2.51	0.73
1:A:125:ARG:CB	1:A:134:ASP:OD2	2.32	0.73
1:C:600:LEU:HD23	1:C:1665:HIS:C	2.09	0.73
1:E:46:LEU:CD1	1:E:125:ARG:NE	2.51	0.73
1:E:3906:GLN:HE21	1:E:3909:ASN:HD22	1.36	0.73
1:G:721:LEU:HD13	1:G:768:PHE:CE1	2.23	0.73
1:G:758:ARG:HG2	1:G:763:PRO:HA	1.69	0.73
1:G:4994:TYR:HE2	1:G:5007:GLU:OE2	1.70	0.73
1:A:554:LEU:CD1	1:A:593:HIS:NE2	2.42	0.73
1:A:2198:MET:CE	1:A:2203:MET:HE1	2.18	0.73
1:E:45:ARG:NH2	1:E:116:MET:HE2	2.03	0.73
1:G:46:LEU:CD1	1:G:125:ARG:NE	2.51	0.73
1:G:1152:MET:HB2	1:G:1161:ILE:HB	1.70	0.73
1:G:4708:THR:HG22	1:G:4710:SER:H	1.53	0.73
1:A:4961:CYS:HG	3:A:6000:ZN:ZN	1.00	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4980:LEU:HA	1:A:4984:ASN:HB3	1.71	0.73
1:E:1679:ASN:HB3	1:E:1799:SER:H	1.53	0.73
1:E:2882:TYR:CB	1:E:2919:ASP:OD2	2.35	0.73
1:C:600:LEU:CD2	1:C:1665:HIS:C	2.56	0.73
1:C:1830:VAL:HB	1:C:1837:GLN:HG2	1.70	0.73
1:E:600:LEU:HD23	1:E:1665:HIS:C	2.09	0.73
1:G:161:GLU:CD	1:G:164:ARG:HH21	1.91	0.73
1:G:1131:ARG:HH11	1:G:1131:ARG:HG3	1.53	0.73
1:G:4990:PHE:HA	1:G:4993:MET:HG2	1.69	0.73
1:C:1132:TRP:HE1	1:C:1136:SER:N	1.87	0.73
1:C:3839:CYS:SG	1:C:3881:THR:HB	2.27	0.73
1:C:3906:GLN:HE21	1:C:3909:ASN:HD22	1.36	0.73
1:E:4138:ASP:O	1:E:4142:ASN:ND2	2.21	0.73
1:C:721:LEU:HD13	1:C:768:PHE:CE1	2.23	0.73
1:E:1477:GLY:HA2	1:E:1483:VAL:HA	1.69	0.73
1:G:235:ALA:O	1:G:238:SER:OG	2.06	0.73
1:G:1706:PRO:N	1:G:1836:PHE:HE2	1.87	0.73
1:A:1132:TRP:HE1	1:A:1136:SER:N	1.87	0.73
1:A:4994:TYR:HE2	1:A:5007:GLU:OE2	1.70	0.73
1:C:46:LEU:CD1	1:C:125:ARG:NE	2.51	0.73
1:C:1706:PRO:N	1:C:1836:PHE:HE2	1.87	0.73
1:E:1706:PRO:N	1:E:1836:PHE:HE2	1.87	0.73
1:E:3839:CYS:SG	1:E:3881:THR:HB	2.27	0.73
1:G:1679:ASN:HB3	1:G:1799:SER:H	1.53	0.73
1:G:3841:VAL:CG1	1:G:3929:SER:OG	2.37	0.73
1:A:830:ARG:HD3	1:A:1612:PHE:HZ	1.52	0.73
1:E:721:LEU:HD13	1:E:768:PHE:CE1	2.23	0.73
1:E:3841:VAL:CG1	1:E:3929:SER:OG	2.37	0.73
1:E:4708:THR:HG22	1:E:4710:SER:H	1.53	0.73
2:B:14:THR:HG22	2:B:106:LEU:HD12	1.70	0.73
1:C:706:GLY:H	1:C:711:LEU:HD13	1.54	0.73
1:C:4138:ASP:O	1:C:4142:ASN:ND2	2.21	0.73
1:C:4990:PHE:HA	1:C:4993:MET:HG2	1.69	0.73
1:G:4980:LEU:HA	1:G:4984:ASN:HB3	1.71	0.73
1:A:3839:CYS:SG	1:A:3881:THR:HB	2.27	0.72
2:B:26:TYR:O	2:B:39:SER:N	2.22	0.72
1:C:235:ALA:O	1:C:238:SER:OG	2.06	0.72
1:C:554:LEU:CD2	1:C:1597:VAL:HG23	2.19	0.72
2:F:14:THR:HG22	2:F:106:LEU:HD12	1.70	0.72
1:A:706:GLY:H	1:A:711:LEU:HD13	1.54	0.72
1:A:4708:THR:HG22	1:A:4710:SER:H	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1132:TRP:HE1	1:E:1136:SER:N	1.87	0.72
1:G:682:LEU:CD1	1:G:783:PHE:CA	2.62	0.72
1:G:1182:ILE:HD12	1:G:1188:PHE:HE2	1.54	0.72
1:A:3841:VAL:CG1	1:A:3929:SER:OG	2.37	0.72
1:E:235:ALA:O	1:E:238:SER:OG	2.06	0.72
1:E:600:LEU:CD2	1:E:1665:HIS:C	2.56	0.72
1:E:1152:MET:HB2	1:E:1161:ILE:HB	1.70	0.72
1:E:1848:LEU:HG	1:E:1854:PHE:CZ	2.23	0.72
1:E:4010:ILE:HD12	1:E:4011:GLU:CA	2.20	0.72
1:G:600:LEU:CD2	1:G:1665:HIS:C	2.56	0.72
1:A:1131:ARG:HH11	1:A:1131:ARG:HG3	1.53	0.72
1:C:4010:ILE:HD12	1:C:4011:GLU:CA	2.20	0.72
1:C:4980:LEU:HA	1:C:4984:ASN:HB3	1.71	0.72
1:E:1182:ILE:HD12	1:E:1188:PHE:HE2	1.54	0.72
1:E:4980:LEU:HA	1:E:4984:ASN:HB3	1.71	0.72
1:G:1132:TRP:HE1	1:G:1136:SER:N	1.87	0.72
1:G:1288:PHE:HE2	1:G:1462:HIS:HA	1.55	0.72
1:G:1482:ASN:O	1:G:1483:VAL:CB	2.38	0.72
1:A:4181:ILE:HD11	1:A:4991:PHE:CD2	2.24	0.72
1:C:592:LYS:NZ	1:C:1596:GLU:OE2	2.23	0.72
1:C:4005:GLN:HB2	1:C:4006:ASP:OD1	1.90	0.72
1:G:4692:PRO:CD	1:G:4703:ARG:HH21	1.92	0.72
2:H:14:THR:HG22	2:H:106:LEU:HD12	1.70	0.72
1:A:622:THR:HG21	1:A:1681:VAL:HG13	1.72	0.72
1:A:4686:LEU:CD1	1:A:4687:TYR:HE1	1.98	0.72
1:C:1482:ASN:O	1:C:1483:VAL:CB	2.38	0.72
1:C:3906:GLN:HG2	1:C:3909:ASN:HB2	1.72	0.72
1:E:592:LYS:NZ	1:E:1596:GLU:OE2	2.23	0.72
1:E:1767:VAL:O	1:E:1769:THR:CG2	2.35	0.72
1:G:45:ARG:NH2	1:G:116:MET:HE2	2.05	0.72
1:G:1452:TRP:HD1	1:G:1527:MET:HE3	1.50	0.72
1:C:3813:GLN:NE2	1:C:3891:LEU:O	2.23	0.72
1:C:4708:THR:HG22	1:C:4710:SER:H	1.53	0.72
2:D:14:THR:HG22	2:D:106:LEU:HD12	1.70	0.72
1:E:622:THR:HG21	1:E:1681:VAL:HG13	1.72	0.72
1:E:706:GLY:H	1:E:711:LEU:HD13	1.54	0.72
1:G:3813:GLN:NE2	1:G:3891:LEU:O	2.23	0.72
1:A:600:LEU:HD23	1:A:1665:HIS:C	2.09	0.72
1:A:1767:VAL:O	1:A:1769:THR:CG2	2.35	0.72
1:C:1182:ILE:HD12	1:C:1188:PHE:HE2	1.54	0.72
1:C:1961:PHE:HZ	1:C:2063:LEU:HA	1.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4686:LEU:CD1	1:C:4687:TYR:HE1	1.98	0.72
1:E:1122:TYR:HE1	1:E:1133:HIS:ND1	1.55	0.72
1:E:2198:MET:CE	1:E:2203:MET:HE1	2.20	0.72
1:E:4005:GLN:HB2	1:E:4006:ASP:OD1	1.90	0.72
1:A:554:LEU:CD2	1:A:1597:VAL:HG23	2.19	0.72
1:A:3839:CYS:O	1:A:3840:SER:OG	2.06	0.72
1:C:3841:VAL:CG1	1:C:3929:SER:OG	2.37	0.72
1:G:683:ARG:NH1	1:G:722:TRP:CG	2.58	0.72
1:A:1182:ILE:HD12	1:A:1188:PHE:HE2	1.54	0.72
1:A:1482:ASN:O	1:A:1483:VAL:CB	2.38	0.72
1:A:1706:PRO:N	1:A:1836:PHE:HE2	1.87	0.72
1:A:2198:MET:CE	1:A:2203:MET:HE3	2.15	0.72
1:C:1152:MET:HB2	1:C:1161:ILE:HB	1.70	0.72
1:C:1947:CYS:SG	1:C:2127:GLN:NE2	2.63	0.72
1:E:683:ARG:NH1	1:E:722:TRP:CG	2.58	0.72
1:G:554:LEU:CD2	1:G:1597:VAL:HG23	2.19	0.72
1:A:592:LYS:NZ	1:A:1596:GLU:OE2	2.23	0.71
1:A:3813:GLN:NE2	1:A:3891:LEU:O	2.23	0.71
1:E:1131:ARG:HG3	1:E:1131:ARG:HH11	1.53	0.71
1:E:4708:THR:HG21	1:E:4775:TYR:HB2	1.72	0.71
1:A:683:ARG:NH2	1:A:722:TRP:CD1	2.58	0.71
1:A:1152:MET:HB2	1:A:1161:ILE:HB	1.70	0.71
1:C:622:THR:HG21	1:C:1681:VAL:HG13	1.72	0.71
1:C:683:ARG:NH1	1:C:722:TRP:CG	2.58	0.71
1:C:683:ARG:NH2	1:C:722:TRP:CD1	2.58	0.71
2:D:26:TYR:O	2:D:39:SER:N	2.22	0.71
1:G:4005:GLN:HB2	1:G:4006:ASP:OD1	1.90	0.71
1:A:273:HIS:HE1	1:A:334:MET:HE1	1.48	0.71
1:A:683:ARG:NH1	1:A:722:TRP:CG	2.58	0.71
1:A:1947:CYS:SG	1:A:2127:GLN:NE2	2.63	0.71
1:C:1288:PHE:HE2	1:C:1462:HIS:HA	1.55	0.71
1:G:1947:CYS:SG	1:G:2127:GLN:NE2	2.63	0.71
2:H:26:TYR:O	2:H:39:SER:N	2.22	0.71
1:A:1288:PHE:HE2	1:A:1462:HIS:HA	1.55	0.71
1:A:4182:GLU:OE2	1:A:5028:PHE:HB2	1.91	0.71
1:C:111:HIS:HD2	1:C:114:SER:H	1.37	0.71
1:E:554:LEU:CD2	1:E:1597:VAL:HG23	2.19	0.71
1:E:683:ARG:NH2	1:E:722:TRP:CD1	2.58	0.71
1:G:683:ARG:NH2	1:G:722:TRP:CD1	2.58	0.71
1:G:1111:PRO:HG3	1:G:1609:PRO:HD3	1.72	0.71
1:G:3906:GLN:HG2	1:G:3909:ASN:HB2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:HIS:HD2	1:A:114:SER:H	1.37	0.71
1:A:111:PRO:HG3	1:A:1609:PRO:HD3	1.72	0.71
1:A:2256:TYR:HD1	1:A:2260:ASN:ND2	1.88	0.71
1:A:4005:GLN:HB2	1:A:4006:ASP:OD1	1.90	0.71
1:C:1131:ARG:NH1	1:C:1131:ARG:HG3	2.05	0.71
1:C:4181:ILE:HD11	1:C:4991:PHE:CD2	2.24	0.71
1:E:1947:CYS:SG	1:E:2127:GLN:NE2	2.63	0.71
1:G:592:LYS:NZ	1:G:1596:GLU:OE2	2.23	0.71
1:G:1848:LEU:CD2	1:G:1854:PHE:CZ	2.74	0.71
1:G:2152:THR:HG22	1:G:2190:VAL:HG11	1.72	0.71
1:G:4083:ASP:OD2	1:G:4087:LEU:C	2.29	0.71
1:A:1808:ARG:HB3	1:A:1854:PHE:HE1	1.56	0.71
1:A:2152:THR:HG22	1:A:2190:VAL:HG11	1.72	0.71
1:A:4685:GLY:O	1:A:4689:THR:N	2.21	0.71
1:A:4904:PRO:CG	1:A:4910:GLU:CG	2.64	0.71
1:C:2256:TYR:HD1	1:C:2260:ASN:ND2	1.88	0.71
1:E:3813:GLN:NE2	1:E:3891:LEU:O	2.23	0.71
1:E:4994:TYR:CE2	1:E:5007:GLU:OE2	2.44	0.71
1:C:3839:CYS:O	1:C:3840:SER:OG	2.06	0.71
1:E:681:HIS:CA	1:E:716:PHE:CD1	2.73	0.71
1:E:1762:LEU:HD13	1:E:1763:PRO:CD	2.21	0.71
1:E:4182:GLU:OE2	1:E:5028:PHE:HB2	1.91	0.71
1:G:3839:CYS:O	1:G:3840:SER:OG	2.06	0.71
1:G:4010:ILE:HD12	1:G:4011:GLU:CA	2.20	0.71
1:C:993:HIS:HE1	1:C:1020:ARG:HB3	1.56	0.71
1:C:1848:LEU:CD2	1:C:1854:PHE:CZ	2.74	0.71
1:E:2256:TYR:HD1	1:E:2260:ASN:ND2	1.88	0.71
1:G:622:THR:HG21	1:G:1681:VAL:HG13	1.72	0.71
1:G:706:GLY:H	1:G:711:LEU:HD13	1.54	0.71
1:A:533:ASN:HB2	1:A:536:ASN:HD22	1.55	0.71
1:E:1111:PRO:HG3	1:E:1609:PRO:HD3	1.72	0.71
1:E:4083:ASP:OD2	1:E:4087:LEU:C	2.29	0.71
1:G:139:GLU:O	1:G:140:ASP:OD1	2.09	0.71
1:G:4994:TYR:CE2	1:G:5007:GLU:OE2	2.44	0.71
1:A:993:HIS:HE1	1:A:1020:ARG:HB3	1.56	0.71
1:A:4083:ASP:OD2	1:A:4087:LEU:C	2.29	0.71
1:C:4708:THR:HG21	1:C:4775:TYR:HB2	1.72	0.71
1:E:533:ASN:HB2	1:E:536:ASN:HD22	1.55	0.71
1:C:1131:ARG:HG3	1:C:1131:ARG:HH11	1.53	0.70
1:C:4083:ASP:OD2	1:C:4087:LEU:C	2.29	0.70
1:E:1288:PHE:HE2	1:E:1462:HIS:HA	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1291:LEU:HD23	1:E:1293:LEU:H	1.56	0.70
1:E:3906:GLN:HG2	1:E:3909:ASN:HB2	1.72	0.70
1:A:3906:GLN:HG2	1:A:3909:ASN:HB2	1.72	0.70
1:C:139:GLU:O	1:C:140:ASP:OD1	2.09	0.70
1:C:1808:ARG:HB3	1:C:1854:PHE:HE1	1.56	0.70
1:E:993:HIS:HE1	1:E:1020:ARG:HB3	1.56	0.70
1:G:273:HIS:HE1	1:G:334:MET:HE1	1.50	0.70
1:G:823:LEU:HD11	1:G:1621:GLY:HA3	1.73	0.70
1:G:4182:GLU:OE2	1:G:5028:PHE:HB2	1.91	0.70
1:A:4010:ILE:HD12	1:A:4011:GLU:CA	2.20	0.70
1:C:592:LYS:CE	1:C:1596:GLU:OE1	2.40	0.70
1:C:1516:ILE:CB	1:C:1530:THR:HG1	2.04	0.70
1:E:1482:ASN:O	1:E:1483:VAL:CB	2.38	0.70
1:G:533:ASN:HB2	1:G:536:ASN:HD22	1.55	0.70
1:G:1291:LEU:HD23	1:G:1293:LEU:H	1.56	0.70
1:G:2256:TYR:HD1	1:G:2260:ASN:ND2	1.88	0.70
1:A:139:GLU:O	1:A:140:ASP:OD1	2.09	0.70
1:C:533:ASN:HB2	1:C:536:ASN:HD22	1.55	0.70
1:C:1762:LEU:HD13	1:C:1763:PRO:CD	2.21	0.70
1:G:554:LEU:CD1	1:G:593:HIS:NE2	2.42	0.70
1:G:4828:SER:HA	1:G:4831:THR:HG22	1.73	0.70
1:C:1111:PRO:HG3	1:C:1609:PRO:HD3	1.72	0.70
1:E:139:GLU:O	1:E:140:ASP:OD1	2.09	0.70
1:E:823:LEU:HD11	1:E:1621:GLY:HA3	1.73	0.70
1:G:1131:ARG:HG3	1:G:1131:ARG:NH1	2.05	0.70
1:G:1762:LEU:HD13	1:G:1763:PRO:CD	2.21	0.70
1:C:1818:ALA:HB1	1:C:1838:PHE:CE1	2.26	0.70
1:C:4182:GLU:OE2	1:C:5028:PHE:HB2	1.91	0.70
1:E:1452:TRP:CG	1:E:1527:MET:CE	2.74	0.70
1:E:2152:THR:HG22	1:E:2190:VAL:HG11	1.72	0.70
1:G:993:HIS:HE1	1:G:1020:ARG:HB3	1.56	0.70
1:G:2277:ALA:HB1	1:G:2337:PHE:HD2	1.57	0.70
1:G:3970:GLN:NE2	1:G:4029:SER:HB2	2.07	0.70
1:A:4994:TYR:CE2	1:A:5007:GLU:OE2	2.44	0.70
1:E:236:ALA:HA	1:E:242:ARG:HD2	1.73	0.70
1:E:4685:GLY:O	1:E:4689:THR:N	2.21	0.70
1:E:4686:LEU:CG	1:E:4687:TYR:CE1	2.75	0.70
1:G:1452:TRP:CG	1:G:1527:MET:CE	2.74	0.70
1:G:4686:LEU:CG	1:G:4687:TYR:CE1	2.75	0.70
1:A:1131:ARG:HG3	1:A:1131:ARG:NH1	2.05	0.70
1:C:4904:PRO:CG	1:C:4910:GLU:CG	2.64	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:736:HIS:HE1	1:E:739:ALA:HB2	1.56	0.70
2:F:23:VAL:HG22	2:F:47:LYS:HG2	1.74	0.70
1:G:2159:LEU:HD11	1:G:2201:LEU:HD13	1.74	0.70
1:A:1818:ALA:HB1	1:A:1838:PHE:CE1	2.26	0.70
1:A:4828:SER:HA	1:A:4831:THR:HG22	1.73	0.70
1:C:2152:THR:HG22	1:C:2190:VAL:HG11	1.72	0.70
1:C:4686:LEU:CG	1:C:4687:TYR:CE1	2.75	0.70
1:E:167:ASP:OD1	1:G:384:MET:HE1	1.89	0.70
1:E:598:LYS:H	1:E:598:LYS:CD	2.00	0.70
1:E:4181:ILE:HD11	1:E:4991:PHE:CD2	2.24	0.70
1:G:236:ALA:HA	1:G:242:ARG:HD2	1.73	0.70
1:G:682:LEU:CD1	1:G:783:PHE:CB	2.70	0.70
1:A:1762:LEU:HD13	1:A:1763:PRO:CD	2.21	0.70
1:A:1848:LEU:CD2	1:A:1854:PHE:CZ	2.74	0.70
1:A:2198:MET:HE1	1:A:2203:MET:CE	2.19	0.70
1:A:4686:LEU:CG	1:A:4687:TYR:CE1	2.75	0.70
1:E:2277:ALA:HB1	1:E:2337:PHE:HD2	1.57	0.70
1:A:236:ALA:HA	1:A:242:ARG:HD2	1.73	0.69
1:A:2159:LEU:HD11	1:A:2201:LEU:HD13	1.74	0.69
1:A:2277:ALA:HB1	1:A:2337:PHE:HD2	1.57	0.69
1:A:4708:THR:HG21	1:A:4775:TYR:HB2	1.72	0.69
1:C:707:VAL:HA	1:C:725:HIS:HB2	1.74	0.69
1:C:736:HIS:HE1	1:C:739:ALA:HB2	1.56	0.69
1:C:4035:VAL:HG12	1:C:4036:VAL:H	1.57	0.69
1:E:682:LEU:CD1	1:E:783:PHE:CB	2.70	0.69
1:E:707:VAL:HA	1:E:725:HIS:HB2	1.74	0.69
1:E:1131:ARG:HG3	1:E:1131:ARG:NH1	2.05	0.69
1:E:4035:VAL:HG12	1:E:4036:VAL:H	1.57	0.69
2:F:26:TYR:O	2:F:39:SER:N	2.22	0.69
1:G:4181:ILE:HD11	1:G:4991:PHE:CD2	2.24	0.69
1:G:4703:ARG:O	1:G:4706:LEU:HG	1.92	0.69
1:A:823:LEU:HD11	1:A:1621:GLY:HA3	1.73	0.69
1:E:1818:ALA:HB1	1:E:1838:PHE:CE1	2.26	0.69
1:G:1808:ARG:HB3	1:G:1854:PHE:HE1	1.56	0.69
1:G:1961:PHE:CE2	1:G:2063:LEU:HD22	2.27	0.69
1:G:1516:ILE:CB	1:G:1530:THR:HG1	2.04	0.69
1:G:1818:ALA:HB1	1:G:1838:PHE:CE1	2.26	0.69
1:G:4708:THR:HG21	1:G:4775:TYR:HB2	1.72	0.69
1:A:4703:ARG:O	1:A:4706:LEU:HG	1.92	0.69
1:C:236:ALA:HA	1:C:242:ARG:HD2	1.73	0.69
1:E:2133:GLU:HG3	1:E:2136:ARG:HE	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1961:PHE:CE2	1:A:2063:LEU:HD22	2.27	0.69
1:A:3970:GLN:NE2	1:A:4029:SER:HB2	2.07	0.69
1:A:4035:VAL:HG12	1:A:4036:VAL:H	1.57	0.69
1:C:554:LEU:CD1	1:C:593:HIS:NE2	2.42	0.69
1:C:4994:TYR:CE2	1:C:5007:GLU:OE2	2.44	0.69
1:E:1848:LEU:CD2	1:E:1854:PHE:CZ	2.74	0.69
1:G:1782:PHE:CD2	2:H:37:ASP:OD2	2.46	0.69
1:E:592:LYS:CE	1:E:1596:GLU:OE1	2.40	0.69
1:E:1705:GLY:C	1:E:1836:PHE:CD2	2.66	0.69
2:H:23:VAL:HG22	2:H:47:LYS:HG2	1.74	0.69
1:A:682:LEU:CD1	1:A:783:PHE:CB	2.70	0.69
1:C:682:LEU:CD1	1:C:783:PHE:CB	2.70	0.69
1:C:1782:PHE:CD2	2:D:37:ASP:OD2	2.46	0.69
1:C:3970:GLN:NE2	1:C:4029:SER:HB2	2.07	0.69
1:A:1286:MET:H	1:A:1555:LEU:CD1	2.06	0.69
1:A:3841:VAL:HG13	1:A:3929:SER:OG	1.93	0.69
1:C:554:LEU:CG	1:C:593:HIS:CE1	2.76	0.69
1:C:1291:LEU:HD23	1:C:1293:LEU:H	1.56	0.69
1:C:1848:LEU:HD23	1:C:1854:PHE:HZ	1.56	0.69
1:C:2277:ALA:HB1	1:C:2337:PHE:HD2	1.57	0.69
1:E:111:HIS:HD2	1:E:114:SER:H	1.37	0.69
1:E:1782:PHE:CD2	2:F:37:ASP:OD2	2.46	0.69
1:E:1808:ARG:HB3	1:E:1854:PHE:HE1	1.56	0.69
1:E:1961:PHE:CE2	1:E:2063:LEU:HD22	2.27	0.69
1:E:3839:CYS:O	1:E:3840:SER:OG	2.06	0.69
1:E:3990:VAL:HG13	1:E:4051:SER:HB2	1.75	0.69
1:E:4828:SER:HA	1:E:4831:THR:HG22	1.73	0.69
1:G:111:HIS:HD2	1:G:114:SER:H	1.37	0.69
1:G:1286:MET:H	1:G:1555:LEU:CD1	2.06	0.69
1:G:1848:LEU:HD23	1:G:1854:PHE:HZ	1.56	0.69
1:C:4703:ARG:O	1:C:4706:LEU:HG	1.92	0.69
1:E:2159:LEU:HD11	1:E:2201:LEU:HD13	1.74	0.69
1:G:554:LEU:CG	1:G:593:HIS:CE1	2.76	0.69
1:A:554:LEU:CG	1:A:593:HIS:CE1	2.76	0.69
1:A:864:PRO:HD2	1:A:867:LEU:HD12	1.75	0.69
1:A:1848:LEU:HD23	1:A:1854:PHE:HZ	1.56	0.69
1:C:823:LEU:HD11	1:C:1621:GLY:HA3	1.73	0.69
1:C:864:PRO:HD2	1:C:867:LEU:HD12	1.75	0.69
1:C:4828:SER:HA	1:C:4831:THR:HG22	1.73	0.69
2:D:23:VAL:HG22	2:D:47:LYS:HG2	1.74	0.69
1:A:707:VAL:HA	1:A:725:HIS:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1782:PHE:CD2	2:B:37:ASP:OD2	2.46	0.68
1:A:1452:TRP:CG	1:A:1527:MET:CE	2.74	0.68
1:C:721:LEU:HD13	1:C:768:PHE:CZ	2.29	0.68
1:C:3990:VAL:HG13	1:C:4051:SER:HB2	1.75	0.68
1:E:1856:ASP:O	1:E:1860:LYS:N	2.25	0.68
1:G:680:THR:CG2	1:G:785:ALA:HB3	2.24	0.68
1:G:2133:GLU:HG3	1:G:2136:ARG:HE	1.58	0.68
1:G:2349:ASN:OD1	1:G:3849:ARG:NH1	2.26	0.68
1:G:3841:VAL:HG13	1:G:3929:SER:OG	1.93	0.68
1:A:1516:ILE:CB	1:A:1530:THR:HG1	2.04	0.68
1:A:2133:GLU:HG3	1:A:2136:ARG:HE	1.58	0.68
1:E:721:LEU:HD13	1:E:768:PHE:CZ	2.29	0.68
1:E:1516:ILE:CB	1:E:1530:THR:HG1	2.04	0.68
1:E:3897:ASN:OD1	1:E:3901:ASN:ND2	2.26	0.68
1:E:3970:GLN:NE2	1:E:4029:SER:HB2	2.07	0.68
1:E:4703:ARG:O	1:E:4706:LEU:HG	1.92	0.68
1:A:1705:GLY:C	1:A:1836:PHE:CD2	2.66	0.68
1:C:1705:GLY:C	1:C:1836:PHE:CD2	2.66	0.68
1:C:3841:VAL:HG13	1:C:3929:SER:OG	1.93	0.68
1:C:4692:PRO:CD	1:C:4703:ARG:HH21	1.92	0.68
1:E:1275:ARG:NH2	1:E:1599:MET:O	2.27	0.68
1:E:1716:ILE:HD11	1:E:1844:LEU:HA	1.76	0.68
1:E:4680:LYS:CA	1:E:4684:ASP:HB2	2.23	0.68
1:G:592:LYS:CE	1:G:1596:GLU:OE1	2.40	0.68
1:G:3841:VAL:HG12	1:G:3843:ASP:H	1.59	0.68
1:A:681:HIS:CA	1:A:716:PHE:CD1	2.73	0.68
2:B:23:VAL:HG22	2:B:47:LYS:HG2	1.74	0.68
1:C:3897:ASN:OD1	1:C:3901:ASN:ND2	2.26	0.68
1:E:680:THR:CG2	1:E:785:ALA:HB3	2.24	0.68
1:G:554:LEU:HA	1:G:557:SER:HB3	1.76	0.68
1:G:721:LEU:CD2	1:G:767:VAL:HG13	2.23	0.68
1:A:1716:ILE:HD11	1:A:1844:LEU:HA	1.76	0.68
1:A:2284:ASN:HA	1:A:2341:VAL:HG21	1.76	0.68
1:C:1286:MET:H	1:C:1555:LEU:CD1	2.06	0.68
1:G:707:VAL:HA	1:G:725:HIS:HB2	1.74	0.68
1:G:721:LEU:HD13	1:G:768:PHE:CZ	2.29	0.68
1:G:990:GLU:HG3	1:G:1024:TYR:HB3	1.76	0.68
1:G:3990:VAL:HG13	1:G:4051:SER:HB2	1.75	0.68
1:G:4680:LYS:CA	1:G:4684:ASP:HB2	2.23	0.68
1:A:721:LEU:HD13	1:A:768:PHE:CZ	2.29	0.68
1:A:1291:LEU:HD23	1:A:1293:LEU:H	1.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:681:HIS:CA	1:C:716:PHE:CD1	2.73	0.68
1:C:990:GLU:HG3	1:C:1024:TYR:HB3	1.76	0.68
1:C:1705:GLY:CA	1:C:1836:PHE:CD2	2.77	0.68
1:E:721:LEU:HD23	1:E:767:VAL:HG13	1.76	0.68
1:E:1705:GLY:CA	1:E:1836:PHE:CD2	2.77	0.68
1:G:1275:ARG:NH2	1:G:1599:MET:O	2.27	0.68
1:C:721:LEU:HD23	1:C:767:VAL:HG13	1.76	0.68
1:E:554:LEU:CD1	1:E:593:HIS:NE2	2.42	0.68
1:E:864:PRO:HD2	1:E:867:LEU:HD12	1.75	0.68
1:E:2124:LEU:HD21	1:E:3677:LEU:HD21	1.76	0.68
1:G:1705:GLY:C	1:G:1836:PHE:CD2	2.66	0.68
1:C:607:CYS:O	1:C:618:GLN:NE2	2.25	0.68
1:C:2159:LEU:HD11	1:C:2201:LEU:HD13	1.74	0.68
1:E:515:TRP:HZ3	1:E:555:GLU:CG	2.07	0.68
1:A:592:LYS:CE	1:A:1596:GLU:OE1	2.40	0.68
1:A:680:THR:CG2	1:A:785:ALA:HB3	2.24	0.68
1:A:4680:LYS:CA	1:A:4684:ASP:HB2	2.23	0.68
1:C:2133:GLU:HG3	1:C:2136:ARG:HE	1.58	0.68
1:E:3841:VAL:HG13	1:E:3929:SER:OG	1.93	0.68
1:A:3669:PHE:HE1	1:A:3670:GLU:CD	1.97	0.67
1:A:3897:ASN:OD1	1:A:3901:ASN:ND2	2.26	0.67
1:A:4994:TYR:HE2	1:A:5007:GLU:CD	1.98	0.67
1:C:4994:TYR:HE2	1:C:5007:GLU:CD	1.98	0.67
1:E:2349:ASN:OD1	1:E:3849:ARG:NH1	2.26	0.67
1:G:4035:VAL:HG12	1:G:4036:VAL:H	1.57	0.67
1:A:2128:TYR:O	1:A:3669:PHE:HD2	1.77	0.67
1:C:1527:MET:H	1:C:1541:GLN:CB	2.08	0.67
1:C:1716:ILE:HD11	1:C:1844:LEU:HA	1.76	0.67
1:E:4178:LEU:C	1:E:4178:LEU:HD12	2.15	0.67
1:G:1716:ILE:HD11	1:G:1844:LEU:HA	1.76	0.67
1:G:2066:LEU:O	1:G:2069:THR:OG1	2.13	0.67
1:G:2124:LEU:HD21	1:G:3677:LEU:HD21	1.76	0.67
1:G:3669:PHE:HD1	1:G:3670:GLU:N	1.85	0.67
1:G:3669:PHE:HE1	1:G:3670:GLU:CD	1.97	0.67
1:G:4901:ILE:CD1	1:G:4913:ARG:NE	2.58	0.67
1:G:4994:TYR:HE2	1:G:5007:GLU:CD	1.98	0.67
1:A:3984:ARG:CZ	1:G:161:GLU:HG3	2.24	0.67
1:C:680:THR:CG2	1:C:785:ALA:HB3	2.24	0.67
1:C:4178:LEU:C	1:C:4178:LEU:HD12	2.15	0.67
1:C:4901:ILE:CD1	1:C:4913:ARG:NE	2.58	0.67
1:E:161:GLU:HG3	1:G:3984:ARG:CZ	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:721:LEU:CD2	1:E:767:VAL:HG13	2.23	0.67
1:E:1286:MET:H	1:E:1555:LEU:CD1	2.06	0.67
1:E:4901:ILE:CD1	1:E:4913:ARG:NE	2.58	0.67
1:G:284:HIS:HE2	1:G:286:THR:HG1	1.35	0.67
1:G:736:HIS:HE1	1:G:739:ALA:HB2	1.56	0.67
1:G:864:PRO:HD2	1:G:867:LEU:HD12	1.75	0.67
1:G:1527:MET:H	1:G:1541:GLN:CB	2.08	0.67
1:G:1705:GLY:CA	1:G:1836:PHE:CD2	2.77	0.67
1:A:1527:MET:H	1:A:1541:GLN:CB	2.08	0.67
1:C:1961:PHE:CE2	1:C:2063:LEU:HD22	2.27	0.67
1:C:4680:LYS:CA	1:C:4684:ASP:HB2	2.23	0.67
1:E:554:LEU:CG	1:E:593:HIS:CE1	2.76	0.67
1:E:2284:ASN:HA	1:E:2341:VAL:HG21	1.76	0.67
1:G:2284:ASN:HA	1:G:2341:VAL:HG21	1.76	0.67
2:H:26:TYR:CA	2:H:39:SER:OG	2.43	0.67
1:A:4178:LEU:C	1:A:4178:LEU:HD12	2.15	0.67
1:C:161:GLU:HG3	1:E:3984:ARG:CZ	2.24	0.67
1:C:167:ASP:OD1	1:E:384:MET:HE1	1.92	0.67
1:E:990:GLU:HG3	1:E:1024:TYR:HB3	1.76	0.67
1:E:1527:MET:H	1:E:1541:GLN:CB	2.08	0.67
1:G:1214:PHE:O	1:G:1218:GLY:N	2.27	0.67
1:C:1705:GLY:HA3	1:C:1836:PHE:CD2	2.30	0.67
1:C:3669:PHE:HE1	1:C:3670:GLU:CD	1.97	0.67
1:E:3841:VAL:HG12	1:E:3843:ASP:H	1.59	0.67
1:E:4994:TYR:HE2	1:E:5007:GLU:CD	1.98	0.67
1:G:2128:TYR:O	1:G:3669:PHE:HD2	1.77	0.67
1:G:3897:ASN:OD1	1:G:3901:ASN:ND2	2.26	0.67
1:G:4904:PRO:HB2	1:G:4910:GLU:HG3	1.71	0.67
1:A:161:GLU:HG3	1:C:3984:ARG:CZ	2.24	0.67
1:A:1856:ASP:O	1:A:1860:LYS:N	2.25	0.67
1:C:1830:VAL:HB	1:C:1837:GLN:CG	2.25	0.67
1:C:1853:ILE:HG22	1:C:1854:PHE:CE1	2.30	0.67
1:E:3669:PHE:HE1	1:E:3670:GLU:CD	1.97	0.67
1:G:580:GLU:HG2	1:G:620:LEU:HD11	1.77	0.67
1:A:645:ARG:NH1	1:A:824:GLU:OE2	2.28	0.67
1:A:990:GLU:HG3	1:A:1024:TYR:HB3	1.76	0.67
1:A:1853:ILE:HG22	1:A:1854:PHE:CE1	2.30	0.67
1:A:4901:ILE:CD1	1:A:4913:ARG:NE	2.58	0.67
1:E:554:LEU:HA	1:E:557:SER:HB3	1.76	0.67
1:E:1848:LEU:HD23	1:E:1854:PHE:HZ	1.56	0.67
1:G:805:PRO:CD	1:G:806:PRO:N	2.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1856:ASP:O	1:G:1860:LYS:N	2.25	0.67
1:A:45:ARG:NH2	1:A:116:MET:HE2	2.09	0.67
1:A:3990:VAL:HG13	1:A:4051:SER:HB2	1.75	0.67
1:A:4904:PRO:HB2	1:A:4910:GLU:HG3	1.71	0.67
1:C:3996:PHE:HZ	1:C:4019:LEU:HD22	1.60	0.67
1:G:1772:ARG:NH1	1:G:1952:GLN:HE22	1.93	0.67
1:A:1705:GLY:CA	1:A:1836:PHE:CD2	2.77	0.67
1:A:3841:VAL:HG12	1:A:3843:ASP:H	1.59	0.67
1:C:645:ARG:NH1	1:C:824:GLU:OE2	2.28	0.67
1:E:580:GLU:HG2	1:E:620:LEU:HD11	1.77	0.67
1:E:1705:GLY:HA3	1:E:1836:PHE:CD2	2.30	0.67
1:G:1838:PHE:HB3	1:G:1842:LEU:HD13	1.77	0.67
1:G:4685:GLY:O	1:G:4689:THR:N	2.21	0.67
1:A:1275:ARG:NH2	1:A:1599:MET:O	2.27	0.66
1:E:1853:ILE:HG22	1:E:1854:PHE:CE1	2.30	0.66
1:G:495:ASN:O	1:G:553:ARG:NH1	2.28	0.66
1:G:607:CYS:O	1:G:618:GLN:NE2	2.25	0.66
1:A:972:LEU:HB3	1:A:1044:ARG:HB3	1.78	0.66
1:A:2349:ASN:OD1	1:A:3849:ARG:NH1	2.26	0.66
2:B:38:SER:O	2:B:42:ARG:NH1	2.28	0.66
1:C:495:ASN:O	1:C:553:ARG:NH1	2.28	0.66
1:C:1856:ASP:O	1:C:1860:LYS:N	2.25	0.66
1:C:2124:LEU:HD21	1:C:3677:LEU:HD21	1.76	0.66
2:D:25:HIS:CD2	2:D:104:LEU:HD11	2.31	0.66
1:E:805:PRO:CD	1:E:806:PRO:N	2.58	0.66
1:E:1830:VAL:HB	1:E:1837:GLN:CG	2.25	0.66
2:F:26:TYR:CA	2:F:39:SER:OG	2.43	0.66
1:G:972:LEU:HB3	1:G:1044:ARG:HB3	1.78	0.66
1:G:4178:LEU:C	1:G:4178:LEU:HD12	2.15	0.66
1:A:721:LEU:HD23	1:A:767:VAL:HG13	1.76	0.66
1:A:2124:LEU:HD21	1:A:3677:LEU:HD21	1.76	0.66
1:C:2128:TYR:O	1:C:3669:PHE:HD2	1.77	0.66
1:C:2349:ASN:OD1	1:C:3849:ARG:NH1	2.26	0.66
1:C:3841:VAL:HG12	1:C:3843:ASP:H	1.59	0.66
1:E:645:ARG:NH1	1:E:824:GLU:OE2	2.28	0.66
1:E:1769:THR:OG1	1:E:1956:GLU:OE2	2.14	0.66
1:G:1671:ARG:NH1	1:G:1713:ASP:OD2	2.28	0.66
1:G:4235:VAL:HG11	1:G:5019:TRP:HH2	1.61	0.66
1:A:1671:ARG:NH1	1:A:1713:ASP:OD2	2.28	0.66
1:A:2496:PRO:HB2	1:A:2552:ARG:HD2	1.77	0.66
1:A:3996:PHE:HZ	1:A:4019:LEU:HD22	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1671:ARG:NH1	1:C:1713:ASP:OD2	2.28	0.66
1:C:2284:ASN:HA	1:C:2341:VAL:HG21	1.76	0.66
1:E:2128:TYR:O	1:E:3669:PHE:HD2	1.77	0.66
1:G:645:ARG:NH1	1:G:824:GLU:OE2	2.28	0.66
1:A:1452:TRP:CD1	1:A:1527:MET:HE1	2.27	0.66
1:C:554:LEU:HA	1:C:557:SER:HB3	1.76	0.66
1:C:972:LEU:HB3	1:C:1044:ARG:HB3	1.78	0.66
1:E:2198:MET:HE1	1:E:2203:MET:CE	2.23	0.66
1:E:4901:ILE:CD1	1:E:4913:ARG:CZ	2.73	0.66
1:G:683:ARG:NH1	1:G:705:ASN:O	2.28	0.66
1:G:758:ARG:HH12	1:G:804:PRO:HB3	1.59	0.66
1:G:4006:ASP:OD1	1:G:4006:ASP:N	2.29	0.66
1:G:4187:SER:OG	1:G:4189:ARG:HG2	1.95	0.66
1:A:721:LEU:CD2	1:A:767:VAL:HG13	2.23	0.66
1:A:805:PRO:CD	1:A:806:PRO:N	2.58	0.66
1:A:1772:ARG:NH1	1:A:1952:GLN:HE22	1.93	0.66
1:A:4901:ILE:CD1	1:A:4913:ARG:CZ	2.73	0.66
1:E:683:ARG:CD	1:E:705:ASN:HB3	2.26	0.66
1:E:1547:LYS:NZ	1:E:1642:PRO:O	2.27	0.66
1:G:1769:THR:OG1	1:G:1956:GLU:OE2	2.14	0.66
2:H:38:SER:O	2:H:42:ARG:NH1	2.28	0.66
1:A:683:ARG:NH1	1:A:705:ASN:O	2.28	0.66
1:A:1705:GLY:HA3	1:A:1836:PHE:CD2	2.30	0.66
1:C:681:HIS:HA	1:C:716:PHE:CE1	2.31	0.66
1:E:597:HIS:CD2	1:E:1661:ARG:HD2	2.31	0.66
1:E:638:ILE:O	1:E:1636:MET:N	2.28	0.66
1:E:683:ARG:NH1	1:E:705:ASN:O	2.28	0.66
1:E:1671:ARG:NH1	1:E:1713:ASP:OD2	2.28	0.66
1:G:515:TRP:HZ3	1:G:555:GLU:CG	2.07	0.66
1:G:1830:VAL:HB	1:G:1837:GLN:CG	2.25	0.66
1:A:580:GLU:HG2	1:A:620:LEU:HD11	1.77	0.66
1:A:683:ARG:CZ	1:A:722:TRP:CD1	2.79	0.66
1:A:4179:GLY:O	1:A:4195:PHE:CG	2.49	0.66
1:C:293:LEU:HD13	1:C:378:LEU:HD12	1.78	0.66
1:C:4179:GLY:O	1:C:4195:PHE:CG	2.49	0.66
1:C:4979:THR:O	1:C:4984:ASN:N	2.28	0.66
2:D:26:TYR:CA	2:D:39:SER:OG	2.43	0.66
1:E:495:ASN:O	1:E:553:ARG:NH1	2.28	0.66
1:E:4195:PHE:HE2	1:E:4987:ASN:HB3	1.61	0.66
2:F:25:HIS:CD2	2:F:104:LEU:HD11	2.31	0.66
1:G:721:LEU:HD23	1:G:767:VAL:HG13	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3984:ARG:NE	1:G:161:GLU:HG3	2.11	0.66
1:C:683:ARG:CZ	1:C:722:TRP:CD1	2.79	0.66
1:C:1275:ARG:NH2	1:C:1599:MET:O	2.27	0.66
1:C:4901:ILE:CD1	1:C:4913:ARG:CZ	2.73	0.66
1:E:1838:PHE:HB3	1:E:1842:LEU:HD13	1.77	0.66
1:E:4187:SER:OG	1:E:4189:ARG:HG2	1.95	0.66
1:G:600:LEU:CD2	1:G:1665:HIS:O	2.44	0.66
1:A:161:GLU:HG3	1:C:3984:ARG:NE	2.11	0.66
1:A:495:ASN:O	1:A:553:ARG:NH1	2.28	0.66
1:C:683:ARG:NH1	1:C:705:ASN:O	2.28	0.66
1:C:3927:GLN:NE2	1:C:3991:GLY:HA3	2.11	0.66
1:C:4006:ASP:OD1	1:C:4006:ASP:N	2.29	0.66
1:G:3927:GLN:NE2	1:G:3991:GLY:HA3	2.11	0.66
1:G:3996:PHE:HZ	1:G:4019:LEU:HD22	1.60	0.66
1:A:554:LEU:HA	1:A:557:SER:HB3	1.76	0.65
1:A:1838:PHE:HB3	1:A:1842:LEU:HD13	1.77	0.65
1:A:1961:PHE:CZ	1:A:2063:LEU:HA	2.31	0.65
1:A:4914:VAL:HG11	1:C:4884:LEU:HD11	1.79	0.65
1:C:683:ARG:CD	1:C:705:ASN:HB3	2.26	0.65
1:C:4187:SER:OG	1:C:4189:ARG:HG2	1.95	0.65
1:E:972:LEU:HB3	1:E:1044:ARG:HB3	1.78	0.65
1:E:4235:VAL:HG11	1:E:5019:TRP:HH2	1.61	0.65
1:G:793:LEU:HD22	1:G:811:CYS:CB	2.26	0.65
1:G:4179:GLY:O	1:G:4195:PHE:CG	2.49	0.65
1:A:4235:VAL:HG11	1:A:5019:TRP:HH2	1.61	0.65
2:B:25:HIS:CD2	2:B:104:LEU:HD11	2.31	0.65
1:C:1214:PHE:O	1:C:1218:GLY:N	2.27	0.65
1:E:161:GLU:HG3	1:G:3984:ARG:NE	2.11	0.65
1:E:681:HIS:HA	1:E:716:PHE:CE1	2.31	0.65
1:E:683:ARG:CZ	1:E:722:TRP:CD1	2.79	0.65
1:A:125:ARG:HD3	1:A:134:ASP:CG	2.17	0.65
1:A:4195:PHE:HE2	1:A:4987:ASN:HB3	1.61	0.65
1:C:597:HIS:CD2	1:C:1661:ARG:HD2	2.31	0.65
1:C:1961:PHE:CZ	1:C:2063:LEU:HA	2.31	0.65
1:C:4235:VAL:HG11	1:C:5019:TRP:HH2	1.61	0.65
2:D:38:SER:O	2:D:42:ARG:NH1	2.28	0.65
1:E:293:LEU:HD13	1:E:378:LEU:HD12	1.78	0.65
1:E:793:LEU:HD22	1:E:811:CYS:CB	2.26	0.65
1:E:1214:PHE:O	1:E:1218:GLY:N	2.27	0.65
2:F:38:SER:O	2:F:42:ARG:NH1	2.28	0.65
1:G:1547:LYS:NZ	1:G:1642:PRO:O	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4195:PHE:HE2	1:G:4987:ASN:HB3	1.61	0.65
1:A:515:TRP:HZ3	1:A:555:GLU:CG	2.07	0.65
1:A:793:LEU:HD22	1:A:811:CYS:CB	2.26	0.65
1:A:943:ASP:HB2	1:A:1050:GLY:HA3	1.79	0.65
1:A:1763:PRO:CD	1:A:1863:LEU:CD1	2.57	0.65
1:A:1830:VAL:HB	1:A:1837:GLN:CG	2.25	0.65
1:A:2066:LEU:O	1:A:2069:THR:OG1	2.13	0.65
1:A:4006:ASP:OD1	1:A:4006:ASP:N	2.29	0.65
1:A:4658:ILE:HG22	1:A:4792:LEU:HB3	1.79	0.65
1:C:161:GLU:HG3	1:E:3984:ARG:NE	2.11	0.65
1:C:4195:PHE:HE2	1:C:4987:ASN:HB3	1.61	0.65
1:E:600:LEU:CD2	1:E:1665:HIS:O	2.44	0.65
1:E:2496:PRO:HB2	1:E:2552:ARG:HD2	1.77	0.65
1:E:3996:PHE:HZ	1:E:4019:LEU:HD22	1.60	0.65
1:E:4006:ASP:OD1	1:E:4006:ASP:N	2.29	0.65
1:E:4179:GLY:O	1:E:4195:PHE:CG	2.49	0.65
1:G:597:HIS:CD2	1:G:1661:ARG:HD2	2.31	0.65
1:G:1705:GLY:HA3	1:G:1836:PHE:CD2	2.30	0.65
1:G:1961:PHE:CZ	1:G:2063:LEU:HA	2.31	0.65
2:H:25:HIS:CD2	2:H:104:LEU:HD11	2.31	0.65
1:A:600:LEU:CD2	1:A:1665:HIS:O	2.44	0.65
1:A:1769:THR:OG1	1:A:1956:GLU:OE2	2.14	0.65
1:A:4187:SER:OG	1:A:4189:ARG:HG2	1.95	0.65
1:C:284:HIS:HE2	1:C:286:THR:HG1	1.40	0.65
1:C:1769:THR:OG1	1:C:1956:GLU:OE2	2.14	0.65
1:C:1838:PHE:HB3	1:C:1842:LEU:HD13	1.77	0.65
1:E:4680:LYS:O	1:E:4685:GLY:N	2.30	0.65
1:G:125:ARG:HD3	1:G:134:ASP:CG	2.17	0.65
1:A:683:ARG:CD	1:A:705:ASN:HB3	2.26	0.65
1:A:758:ARG:HH12	1:A:804:PRO:HB3	1.59	0.65
1:A:4680:LYS:O	1:A:4685:GLY:N	2.30	0.65
1:C:125:ARG:HD3	1:C:134:ASP:CG	2.17	0.65
1:C:580:GLU:HG2	1:C:620:LEU:HD11	1.77	0.65
1:C:721:LEU:CD2	1:C:767:VAL:HG13	2.23	0.65
1:C:943:ASP:HB2	1:C:1050:GLY:HA3	1.79	0.65
1:C:1478:ASP:O	1:C:1479:GLU:OE1	2.15	0.65
1:C:4658:ILE:HG22	1:C:4792:LEU:HB3	1.79	0.65
1:E:1961:PHE:CZ	1:E:2063:LEU:HA	2.31	0.65
1:C:515:TRP:HZ3	1:C:555:GLU:CG	2.07	0.65
1:C:793:LEU:HD22	1:C:811:CYS:CB	2.26	0.65
1:C:3669:PHE:CE1	1:C:3670:GLU:CD	2.70	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4180:ARG:HB3	1:C:4194:TYR:CD1	2.32	0.65
1:C:4914:VAL:HG11	1:E:4884:LEU:HD11	1.79	0.65
1:E:736:HIS:CE1	1:E:739:ALA:CB	2.78	0.65
1:G:683:ARG:CD	1:G:705:ASN:HB3	2.26	0.65
1:A:3927:GLN:NE2	1:A:3991:GLY:HA3	2.11	0.65
1:A:4180:ARG:HB3	1:A:4194:TYR:CD1	2.32	0.65
2:B:26:TYR:CA	2:B:39:SER:OG	2.43	0.65
1:C:805:PRO:CD	1:C:806:PRO:N	2.58	0.65
1:C:4991:PHE:HE2	1:C:5010:VAL:HG11	1.62	0.65
1:A:1214:PHE:O	1:A:1218:GLY:N	2.27	0.65
1:A:3669:PHE:CE1	1:A:3670:GLU:CD	2.70	0.65
1:C:102:LEU:HB2	1:C:105:HIS:CE1	2.31	0.65
1:C:736:HIS:CE1	1:C:739:ALA:CB	2.78	0.65
1:C:4685:GLY:O	1:C:4689:THR:N	2.21	0.65
1:E:4991:PHE:HE2	1:E:5010:VAL:HG11	1.62	0.65
1:A:830:ARG:HD3	1:A:1612:PHE:CZ	2.32	0.65
1:A:1667:LEU:HG	1:A:1714:LEU:HD11	1.79	0.65
1:C:1667:LEU:HG	1:C:1714:LEU:HD11	1.79	0.65
1:C:2256:TYR:CD1	1:C:2260:ASN:ND2	2.63	0.65
1:E:102:LEU:HB2	1:E:105:HIS:CE1	2.31	0.65
1:E:1808:ARG:NH1	1:E:1858:ASP:OD2	2.30	0.65
1:G:839:LEU:HB3	1:G:1075:PHE:HE2	1.62	0.65
1:G:1598:GLN:O	1:G:1600:LEU:HG	1.97	0.65
1:G:2496:PRO:HB2	1:G:2552:ARG:HD2	1.77	0.65
1:A:638:ILE:O	1:A:1636:MET:N	2.28	0.64
1:A:668:VAL:HA	1:A:789:VAL:HG12	1.79	0.64
1:A:1808:ARG:NH1	1:A:1858:ASP:OD2	2.30	0.64
1:C:758:ARG:HH12	1:C:804:PRO:HB3	1.59	0.64
1:C:3775:ALA:HA	1:C:3778:MET:HG2	1.79	0.64
1:C:4182:GLU:OE2	1:C:5028:PHE:CB	2.45	0.64
1:E:561:LEU:HD11	1:E:599:VAL:HG22	1.79	0.64
1:G:1478:ASP:O	1:G:1479:GLU:OE1	2.15	0.64
1:G:4680:LYS:O	1:G:4685:GLY:N	2.30	0.64
1:G:4904:PRO:O	1:G:4910:GLU:HG3	1.97	0.64
1:C:600:LEU:CD2	1:C:1665:HIS:O	2.44	0.64
1:C:1091:GLU:HG2	1:C:1213:PHE:CD1	2.32	0.64
1:C:2496:PRO:HB2	1:C:2552:ARG:HD2	1.77	0.64
1:E:12:GLN:HB3	1:E:13:PHE:CD1	2.32	0.64
1:E:943:ASP:HB2	1:E:1050:GLY:HA3	1.79	0.64
1:E:3927:GLN:NE2	1:E:3991:GLY:HA3	2.11	0.64
1:E:4182:GLU:OE2	1:E:5028:PHE:CB	2.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:102:LEU:HB2	1:G:105:HIS:CE1	2.31	0.64
1:G:1727:ARG:NH1	1:G:1851:MET:O	2.31	0.64
1:A:1762:LEU:CD1	1:A:1764:GLY:H	2.11	0.64
1:A:3841:VAL:CG1	1:A:3842:LEU:N	2.61	0.64
1:A:4884:LEU:HD11	1:G:4914:VAL:HG11	1.79	0.64
1:C:1452:TRP:CG	1:C:1527:MET:CE	2.74	0.64
1:C:4680:LYS:O	1:C:4685:GLY:N	2.30	0.64
1:E:49:LEU:HD11	1:E:189:LEU:CA	2.27	0.64
1:E:721:LEU:HD22	1:E:767:VAL:HG12	1.79	0.64
1:E:758:ARG:HH12	1:E:804:PRO:HB3	1.59	0.64
1:E:4914:VAL:HG11	1:G:4884:LEU:HD11	1.79	0.64
1:G:49:LEU:HD11	1:G:189:LEU:CA	2.27	0.64
1:G:683:ARG:CZ	1:G:722:TRP:CD1	2.79	0.64
1:A:4904:PRO:O	1:A:4910:GLU:HG3	1.97	0.64
1:A:4991:PHE:HE2	1:A:5010:VAL:HG11	1.62	0.64
1:C:12:GLN:HB3	1:C:13:PHE:CD1	2.32	0.64
1:E:1091:GLU:HG2	1:E:1213:PHE:CD1	2.32	0.64
1:E:2066:LEU:O	1:E:2069:THR:OG1	2.13	0.64
1:E:3669:PHE:CE1	1:E:3670:GLU:CD	2.70	0.64
1:G:293:LEU:HD13	1:G:378:LEU:HD12	1.78	0.64
1:G:943:ASP:HB2	1:G:1050:GLY:HA3	1.79	0.64
1:G:3669:PHE:CE1	1:G:3670:GLU:CD	2.70	0.64
2:H:55:VAL:HG21	2:H:59:TRP:HD1	1.63	0.64
1:A:102:LEU:HB2	1:A:105:HIS:CE1	2.31	0.64
1:A:293:LEU:HD13	1:A:378:LEU:HD12	1.78	0.64
1:C:49:LEU:HD11	1:C:189:LEU:CA	2.27	0.64
1:E:125:ARG:HD3	1:E:134:ASP:CG	2.17	0.64
1:E:680:THR:HG23	1:E:785:ALA:HB3	1.80	0.64
1:E:1772:ARG:NH1	1:E:1952:GLN:HE22	1.93	0.64
1:G:1762:LEU:CD1	1:G:1764:GLY:H	2.11	0.64
1:G:4182:GLU:OE2	1:G:5028:PHE:CB	2.45	0.64
1:G:4658:ILE:HG22	1:G:4792:LEU:HB3	1.79	0.64
1:A:561:LEU:HD11	1:A:599:VAL:HG22	1.79	0.64
1:A:701:GLY:O	1:A:725:HIS:NE2	2.31	0.64
1:A:1091:GLU:HG2	1:A:1213:PHE:CD1	2.32	0.64
1:A:4904:PRO:C	1:A:4910:GLU:HG3	2.18	0.64
1:C:668:VAL:HA	1:C:789:VAL:HG12	1.79	0.64
1:E:689:THR:HA	1:E:778:PHE:HE2	1.63	0.64
1:E:3994:HIS:N	1:E:4054:ASN:HD21	1.96	0.64
1:E:4180:ARG:HB3	1:E:4194:TYR:CD1	2.32	0.64
1:G:1853:ILE:HG22	1:G:1854:PHE:CE1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4904:PRO:C	1:G:4910:GLU:HG3	2.18	0.64
1:A:606:LEU:O	1:A:617:ASN:ND2	2.31	0.64
1:A:1727:ARG:NH1	1:A:1851:MET:O	2.31	0.64
1:C:689:THR:HA	1:C:778:PHE:HE2	1.63	0.64
1:C:1808:ARG:NH1	1:C:1858:ASP:OD2	2.30	0.64
1:C:4818:MET:HA	1:C:4824:ARG:HG2	1.79	0.64
1:E:1638:ALA:HA	1:E:1649:ASP:HA	1.80	0.64
1:E:4818:MET:HA	1:E:4824:ARG:HG2	1.79	0.64
1:G:561:LEU:HD11	1:G:599:VAL:HG22	1.79	0.64
1:G:681:HIS:CA	1:G:716:PHE:CD1	2.73	0.64
1:G:3994:HIS:N	1:G:4054:ASN:HD21	1.96	0.64
1:A:681:HIS:HA	1:A:716:PHE:CE1	2.31	0.64
1:A:689:THR:HA	1:A:778:PHE:HE2	1.63	0.64
1:A:1805:GLU:HG2	1:A:1808:ARG:HE	1.63	0.64
1:C:561:LEU:HD11	1:C:599:VAL:HG22	1.79	0.64
1:C:606:LEU:O	1:C:617:ASN:ND2	2.31	0.64
1:C:701:GLY:O	1:C:725:HIS:NE2	2.31	0.64
1:C:4904:PRO:C	1:C:4910:GLU:HG3	2.18	0.64
1:E:701:GLY:O	1:E:725:HIS:NE2	2.31	0.64
1:E:1667:LEU:HG	1:E:1714:LEU:HD11	1.79	0.64
1:E:3669:PHE:HE1	1:E:3670:GLU:OE1	1.81	0.64
1:G:830:ARG:HD3	1:G:1612:PHE:CZ	2.32	0.64
1:G:1763:PRO:CD	1:G:1863:LEU:CD1	2.57	0.64
1:G:4180:ARG:HB3	1:G:4194:TYR:CD1	2.32	0.64
1:G:4818:MET:HA	1:G:4824:ARG:HG2	1.79	0.64
1:A:839:LEU:HB3	1:A:1075:PHE:HE2	1.62	0.64
1:A:1478:ASP:O	1:A:1479:GLU:OE1	2.15	0.64
1:A:1598:GLN:O	1:A:1600:LEU:HG	1.97	0.64
2:B:55:VAL:HG21	2:B:59:TRP:HD1	1.63	0.64
1:C:680:THR:HG23	1:C:785:ALA:HB3	1.80	0.64
1:E:839:LEU:HB3	1:E:1075:PHE:HE2	1.62	0.64
1:E:4658:ILE:HG22	1:E:4792:LEU:HB3	1.79	0.64
1:G:689:THR:HA	1:G:778:PHE:HE2	1.63	0.64
1:G:1808:ARG:NH1	1:G:1858:ASP:OD2	2.30	0.64
1:G:4991:PHE:HE2	1:G:5010:VAL:HG11	1.62	0.64
1:A:597:HIS:CD2	1:A:1661:ARG:HD2	2.31	0.64
1:A:1547:LYS:NZ	1:A:1642:PRO:O	2.27	0.64
1:C:638:ILE:O	1:C:1636:MET:N	2.28	0.64
1:C:721:LEU:HD22	1:C:767:VAL:HG12	1.79	0.64
1:C:1132:TRP:NE1	1:C:1136:SER:N	2.46	0.64
1:C:1762:LEU:CD1	1:C:1764:GLY:H	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:252:VAL:HG23	1:G:257:ARG:HE	1.63	0.64
1:G:681:HIS:HA	1:G:716:PHE:CE1	2.31	0.64
1:G:1091:GLU:HG2	1:G:1213:PHE:CD1	2.32	0.64
1:G:4181:ILE:HD13	1:G:4991:PHE:CB	2.28	0.64
1:A:4182:GLU:OE2	1:A:5028:PHE:CB	2.45	0.63
1:C:683:ARG:NH2	1:C:722:TRP:NE1	2.46	0.63
1:C:1727:ARG:NH1	1:C:1851:MET:O	2.31	0.63
1:C:3841:VAL:CG1	1:C:3842:LEU:N	2.61	0.63
1:E:1727:ARG:NH1	1:E:1851:MET:O	2.31	0.63
1:E:4904:PRO:C	1:E:4910:GLU:HG3	2.18	0.63
1:E:5026:ASP:O	1:E:5030:LYS:HB3	1.98	0.63
2:F:55:VAL:HG21	2:F:59:TRP:HD1	1.63	0.63
1:G:595:ARG:HH22	1:G:1641:ILE:CD1	2.11	0.63
1:G:701:GLY:O	1:G:725:HIS:NE2	2.31	0.63
1:G:1638:ALA:HA	1:G:1649:ASP:HA	1.80	0.63
1:G:1738:LEU:HB2	1:G:2146:PRO:HD3	1.80	0.63
1:A:595:ARG:HH22	1:A:1641:ILE:CD1	2.11	0.63
1:C:252:VAL:HG23	1:C:257:ARG:HE	1.63	0.63
1:C:1452:TRP:CD1	1:C:1527:MET:HE1	2.29	0.63
1:C:4904:PRO:HB2	1:C:4910:GLU:HG3	1.71	0.63
1:E:1762:LEU:CD1	1:E:1764:GLY:H	2.11	0.63
1:E:4931:ILE:HG23	1:G:4940:PHE:HZ	1.63	0.63
1:E:4979:THR:O	1:E:4984:ASN:N	2.28	0.63
1:G:12:GLN:HB3	1:G:13:PHE:CD1	2.32	0.63
1:G:665:GLU:HB2	1:G:792:LEU:HB2	1.80	0.63
1:G:668:VAL:HA	1:G:789:VAL:HG12	1.79	0.63
1:G:680:THR:HG23	1:G:785:ALA:HB3	1.80	0.63
1:G:3955:MET:SD	1:G:4019:LEU:HD13	2.38	0.63
1:A:4940:PHE:HZ	1:G:4931:ILE:HG23	1.63	0.63
1:C:1131:ARG:HD2	1:C:1139:PHE:CD1	2.34	0.63
1:C:1547:LYS:NZ	1:C:1642:PRO:O	2.27	0.63
1:E:1478:ASP:O	1:E:1479:GLU:OE1	2.15	0.63
1:E:1738:LEU:HB2	1:E:2146:PRO:HD3	1.80	0.63
1:E:3841:VAL:CG1	1:E:3842:LEU:N	2.61	0.63
1:E:3955:MET:SD	1:E:4019:LEU:HD13	2.38	0.63
1:E:4181:ILE:HD13	1:E:4991:PHE:CB	2.28	0.63
1:E:4904:PRO:HB2	1:E:4910:GLU:HG3	1.71	0.63
1:G:683:ARG:NH2	1:G:722:TRP:NE1	2.46	0.63
1:G:3841:VAL:CG1	1:G:3842:LEU:N	2.61	0.63
1:A:49:LEU:HD11	1:A:189:LEU:CA	2.27	0.63
1:A:57:ASN:HD22	1:A:308:HIS:HB2	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:705:ASN:OD1	1:A:706:GLY:N	2.32	0.63
1:A:1132:TRP:NE1	1:A:1136:SER:N	2.46	0.63
1:A:2748:PRO:HD2	1:A:2751:LEU:HD12	1.81	0.63
1:A:4180:ARG:NH1	1:A:4180:ARG:HG2	2.14	0.63
1:C:46:LEU:HD13	1:C:125:ARG:NE	2.14	0.63
1:C:1638:ALA:HA	1:C:1649:ASP:HA	1.80	0.63
1:C:2283:ASN:HB2	1:C:2286:LEU:HB2	1.81	0.63
1:C:2748:PRO:HD2	1:C:2751:LEU:HD12	1.81	0.63
1:E:252:VAL:HG23	1:E:257:ARG:HE	1.63	0.63
1:E:1598:GLN:O	1:E:1600:LEU:HG	1.97	0.63
1:E:1805:GLU:HG2	1:E:1808:ARG:HE	1.63	0.63
1:E:3775:ALA:HA	1:E:3778:MET:HG2	1.79	0.63
1:G:3775:ALA:HA	1:G:3778:MET:HG2	1.79	0.63
1:A:851:PHE:O	1:A:852:VAL:C	2.37	0.63
1:A:1240:LYS:HZ1	1:A:1610:ASN:HD22	1.47	0.63
1:C:57:ASN:HD22	1:C:308:HIS:HB2	1.63	0.63
1:C:600:LEU:HD21	1:C:1666:THR:CA	2.26	0.63
1:C:705:ASN:OD1	1:C:706:GLY:N	2.32	0.63
1:C:839:LEU:HB3	1:C:1075:PHE:HE2	1.62	0.63
1:C:1772:ARG:NH1	1:C:1952:GLN:HE22	1.93	0.63
1:C:1805:GLU:HG2	1:C:1808:ARG:HE	1.63	0.63
1:E:830:ARG:HD3	1:E:1612:PHE:CZ	2.32	0.63
1:G:2198:MET:CE	1:G:2203:MET:HE1	2.23	0.63
1:A:12:GLN:HB3	1:A:13:PHE:CD1	2.32	0.63
1:A:161:GLU:CG	1:C:3984:ARG:HD3	2.29	0.63
1:A:1638:ALA:HA	1:A:1649:ASP:HA	1.80	0.63
1:A:3775:ALA:HA	1:A:3778:MET:HG2	1.79	0.63
1:A:4181:ILE:HD13	1:A:4991:PHE:CB	2.28	0.63
1:A:4907:ASP:O	1:A:4910:GLU:HB3	1.99	0.63
1:C:1132:TRP:CD1	1:C:1136:SER:CA	2.81	0.63
1:C:1448:VAL:CG2	1:C:1554:VAL:HG13	2.29	0.63
1:C:4904:PRO:O	1:C:4910:GLU:HG3	1.97	0.63
1:E:167:ASP:CG	1:G:384:MET:HE1	2.19	0.63
1:G:628:GLY:O	1:G:630:GLU:N	2.31	0.63
1:G:851:PHE:O	1:G:852:VAL:C	2.37	0.63
1:G:1667:LEU:HG	1:G:1714:LEU:HD11	1.79	0.63
1:G:4180:ARG:NH1	1:G:4180:ARG:HG2	2.14	0.63
2:H:27:THR:HG22	2:H:100:ASP:HB3	1.81	0.63
1:A:680:THR:HG23	1:A:785:ALA:HB3	1.80	0.63
1:A:3955:MET:SD	1:A:4019:LEU:HD13	2.38	0.63
1:A:4239:GLU:HA	1:A:4242:ILE:HD12	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4818:MET:HA	1:A:4824:ARG:HG2	1.79	0.63
1:C:70:GLU:C	1:C:71:GLN:HG2	2.18	0.63
1:C:1124:PHE:HA	1:C:1131:ARG:HA	1.81	0.63
2:D:55:VAL:HG21	2:D:59:TRP:HD1	1.63	0.63
1:E:161:GLU:CG	1:G:3984:ARG:HD3	2.29	0.63
1:E:665:GLU:HB2	1:E:792:LEU:HB2	1.80	0.63
1:E:4904:PRO:O	1:E:4910:GLU:HG3	1.97	0.63
1:G:705:ASN:OD1	1:G:706:GLY:N	2.32	0.63
1:G:1448:VAL:CG2	1:G:1554:VAL:HG13	2.29	0.63
1:G:5026:ASP:O	1:G:5030:LYS:HB3	1.98	0.63
1:C:2822:THR:HG1	1:C:2938:THR:HG1	1.44	0.63
1:C:4181:ILE:HD13	1:C:4991:PHE:CB	2.28	0.63
1:C:4239:GLU:HA	1:C:4242:ILE:HD12	1.81	0.63
1:E:57:ASN:HD22	1:E:308:HIS:HB2	1.63	0.63
1:E:595:ARG:HH22	1:E:1641:ILE:CD1	2.11	0.63
1:E:683:ARG:NH2	1:E:722:TRP:NE1	2.46	0.63
1:E:3936:TYR:O	1:E:3940:LYS:NZ	2.26	0.63
1:E:4907:ASP:O	1:E:4910:GLU:HB3	1.99	0.63
1:G:606:LEU:O	1:G:617:ASN:ND2	2.31	0.63
1:G:2748:PRO:HD2	1:G:2751:LEU:HD12	1.81	0.63
1:A:665:GLU:HB2	1:A:792:LEU:HB2	1.80	0.63
1:A:1131:ARG:HD2	1:A:1139:PHE:CD1	2.34	0.63
1:A:2283:ASN:HB2	1:A:2286:LEU:HB2	1.81	0.63
1:A:5026:ASP:O	1:A:5030:LYS:HB3	1.98	0.63
1:C:49:LEU:HD23	1:C:191:VAL:CG2	2.29	0.63
1:C:1598:GLN:O	1:C:1600:LEU:HG	1.97	0.63
1:C:3994:HIS:N	1:C:4054:ASN:HD21	1.96	0.63
1:E:70:GLU:C	1:E:71:GLN:HG2	2.18	0.63
1:E:736:HIS:NE2	1:E:739:ALA:HB2	2.14	0.63
1:E:1132:TRP:NE1	1:E:1136:SER:N	2.46	0.63
1:E:1240:LYS:NZ	1:E:1610:ASN:HD22	1.97	0.63
1:G:736:HIS:NE2	1:G:739:ALA:HB2	2.14	0.63
1:G:1131:ARG:HD2	1:G:1139:PHE:CD1	2.34	0.63
1:G:1132:TRP:NE1	1:G:1136:SER:N	2.46	0.63
1:G:2095:GLN:NE2	1:G:2127:GLN:O	2.32	0.63
1:A:49:LEU:HD23	1:A:191:VAL:CG2	2.29	0.62
1:A:49:LEU:HD23	1:A:191:VAL:HG23	1.81	0.62
1:A:472:ARG:NH1	1:A:532:GLY:O	2.32	0.62
1:A:683:ARG:NH2	1:A:722:TRP:NE1	2.46	0.62
1:A:1124:PHE:HA	1:A:1131:ARG:HA	1.81	0.62
1:A:1738:LEU:HB2	1:A:2146:PRO:HD3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4179:GLY:HA3	1:A:4195:PHE:CZ	2.34	0.62
1:C:552:ASP:OD1	1:C:592:LYS:NZ	2.32	0.62
1:C:1131:ARG:HH11	1:C:1131:ARG:CG	2.12	0.62
1:C:1240:LYS:NZ	1:C:1610:ASN:HD22	1.97	0.62
1:C:1738:LEU:HB2	1:C:2146:PRO:HD3	1.80	0.62
1:C:2095:GLN:NE2	1:C:2127:GLN:O	2.32	0.62
1:C:4179:GLY:HA3	1:C:4195:PHE:CZ	2.34	0.62
1:C:4931:ILE:HG23	1:E:4940:PHE:HZ	1.63	0.62
1:E:1131:ARG:HD2	1:E:1139:PHE:CD1	2.34	0.62
1:E:4239:GLU:HA	1:E:4242:ILE:HD12	1.81	0.62
1:G:57:ASN:HD22	1:G:308:HIS:HB2	1.63	0.62
1:G:479:GLN:NE2	1:G:536:ASN:OD1	2.32	0.62
1:A:252:VAL:HG23	1:A:257:ARG:HE	1.63	0.62
1:C:835:ARG:NH2	1:C:1093:GLU:OE2	2.32	0.62
1:C:3955:MET:SD	1:C:4019:LEU:HD13	2.38	0.62
1:E:668:VAL:HA	1:E:789:VAL:HG12	1.79	0.62
1:E:4922:PHE:HA	1:E:4926:VAL:HB	1.81	0.62
2:F:27:THR:HG22	2:F:100:ASP:HB3	1.81	0.62
1:G:49:LEU:HD23	1:G:191:VAL:CG2	2.29	0.62
1:G:3669:PHE:HE1	1:G:3670:GLU:OE1	1.81	0.62
1:A:607:CYS:O	1:A:618:GLN:NE2	2.25	0.62
1:A:3669:PHE:HE1	1:A:3670:GLU:OE1	1.81	0.62
1:A:3984:ARG:HD3	1:G:161:GLU:CG	2.29	0.62
1:A:3994:HIS:N	1:A:4054:ASN:HD21	1.96	0.62
1:C:595:ARG:HH22	1:C:1641:ILE:HG12	1.65	0.62
1:E:49:LEU:HD23	1:E:191:VAL:CG2	2.29	0.62
1:E:606:LEU:O	1:E:617:ASN:ND2	2.31	0.62
1:E:705:ASN:OD1	1:E:706:GLY:N	2.32	0.62
1:E:2756:ASN:OD1	1:E:2806:ARG:NH2	2.33	0.62
1:G:4239:GLU:HA	1:G:4242:ILE:HD12	1.81	0.62
1:G:4979:THR:O	1:G:4984:ASN:N	2.28	0.62
1:A:33:LEU:HD12	1:A:53:SER:HB2	1.82	0.62
1:A:1706:PRO:N	1:A:1836:PHE:CE2	2.67	0.62
1:A:4922:PHE:HA	1:A:4926:VAL:HB	1.81	0.62
1:C:595:ARG:HH22	1:C:1641:ILE:CD1	2.11	0.62
1:C:1762:LEU:HD13	1:C:1763:PRO:HD2	1.81	0.62
1:E:835:ARG:NH2	1:E:1093:GLU:OE2	2.32	0.62
1:E:1131:ARG:HH11	1:E:1131:ARG:CG	2.12	0.62
1:E:1448:VAL:CG2	1:E:1554:VAL:HG13	2.29	0.62
1:E:2283:ASN:HB2	1:E:2286:LEU:HB2	1.81	0.62
1:E:4179:GLY:HA3	1:E:4195:PHE:CZ	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:33:LEU:HD12	1:G:53:SER:HB2	1.82	0.62
1:G:49:LEU:HD23	1:G:191:VAL:HG23	1.81	0.62
1:G:681:HIS:HB2	1:G:716:PHE:CD1	2.35	0.62
1:G:1240:LYS:HZ1	1:G:1610:ASN:HD22	1.47	0.62
1:G:1805:GLU:HG2	1:G:1808:ARG:HE	1.63	0.62
1:G:2756:ASN:OD1	1:G:2806:ARG:NH2	2.33	0.62
1:G:4179:GLY:HA3	1:G:4195:PHE:CZ	2.34	0.62
1:A:681:HIS:HB2	1:A:716:PHE:CD1	2.35	0.62
1:A:3996:PHE:CZ	1:A:4019:LEU:HD22	2.35	0.62
1:A:4898:GLY:HA2	1:A:4901:ILE:HG22	1.82	0.62
1:C:5026:ASP:O	1:C:5030:LYS:HB3	1.98	0.62
2:D:27:THR:HG22	2:D:100:ASP:HB3	1.81	0.62
1:E:681:HIS:HB2	1:E:716:PHE:CD1	2.35	0.62
1:E:4180:ARG:NH1	1:E:4180:ARG:HG2	2.14	0.62
1:G:552:ASP:OD1	1:G:592:LYS:NZ	2.32	0.62
1:G:638:ILE:O	1:G:1636:MET:N	2.28	0.62
1:G:1132:TRP:CD1	1:G:1136:SER:CA	2.81	0.62
1:G:3996:PHE:CZ	1:G:4019:LEU:HD22	2.35	0.62
1:A:1448:VAL:CG2	1:A:1554:VAL:HG13	2.29	0.62
1:A:1762:LEU:HD13	1:A:1763:PRO:HD2	1.81	0.62
1:A:2756:ASN:OD1	1:A:2806:ARG:NH2	2.33	0.62
1:A:4220:ASP:O	1:A:4224:GLU:HG3	2.00	0.62
2:B:27:THR:HG22	2:B:100:ASP:HB3	1.81	0.62
1:C:851:PHE:O	1:C:852:VAL:C	2.37	0.62
1:C:4907:ASP:O	1:C:4910:GLU:HB3	1.99	0.62
1:E:49:LEU:CD2	1:E:191:VAL:CG2	2.78	0.62
1:E:1743:ARG:CD	1:E:1963:GLU:HG3	2.29	0.62
1:E:2854:GLY:O	1:E:2856:ASN:ND2	2.33	0.62
1:G:1706:PRO:N	1:G:1836:PHE:CE2	2.67	0.62
1:G:4907:ASP:O	1:G:4910:GLU:HB3	1.99	0.62
1:A:736:HIS:NE2	1:A:739:ALA:HB2	2.14	0.62
1:A:2299:VAL:HG21	1:A:2356:LEU:HB3	1.82	0.62
1:C:681:HIS:HB2	1:C:716:PHE:CD1	2.35	0.62
1:C:721:LEU:C	1:C:721:LEU:HD12	2.20	0.62
1:C:806:PRO:O	1:C:808:TYR:N	2.33	0.62
1:E:851:PHE:O	1:E:852:VAL:C	2.37	0.62
1:E:2907:PRO:O	1:E:2910:THR:OG1	2.14	0.62
1:G:273:HIS:CE1	1:G:334:MET:HE2	2.34	0.62
1:G:721:LEU:HD22	1:G:767:VAL:HG12	1.79	0.62
1:G:1240:LYS:NZ	1:G:1610:ASN:HD22	1.97	0.62
1:G:2854:GLY:O	1:G:2856:ASN:ND2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:479:GLN:NE2	1:A:536:ASN:OD1	2.32	0.62
1:A:1132:TRP:CD1	1:A:1136:SER:CA	2.81	0.62
1:A:2854:GLY:O	1:A:2856:ASN:ND2	2.33	0.62
1:A:4944:ARG:NE	1:G:4938:ASP:OD1	2.31	0.62
1:C:665:GLU:HB2	1:C:792:LEU:HB2	1.80	0.62
1:C:830:ARG:HD3	1:C:1612:PHE:CZ	2.32	0.62
1:C:3996:PHE:CZ	1:C:4019:LEU:HD22	2.35	0.62
1:E:479:GLN:NE2	1:E:536:ASN:OD1	2.32	0.62
1:E:1124:PHE:HA	1:E:1131:ARG:HA	1.81	0.62
1:E:4220:ASP:O	1:E:4224:GLU:HG3	2.00	0.62
1:G:595:ARG:HH22	1:G:1641:ILE:HG12	1.65	0.62
1:G:1616:GLU:HG3	1:G:1617:THR:HG23	1.82	0.62
1:G:2299:VAL:HG21	1:G:2356:LEU:HB3	1.82	0.62
1:G:4220:ASP:O	1:G:4224:GLU:HG3	2.00	0.62
1:A:4168:GLU:OE2	1:A:4175:ARG:NH2	2.32	0.62
1:C:1131:ARG:CD	1:C:1139:PHE:CD1	2.83	0.62
1:C:4181:ILE:HD13	1:C:4991:PHE:CD1	2.34	0.62
1:E:1132:TRP:CD1	1:E:1136:SER:CA	2.81	0.62
1:E:3996:PHE:CZ	1:E:4019:LEU:HD22	2.35	0.62
1:G:721:LEU:C	1:G:721:LEU:HD12	2.20	0.62
1:G:1743:ARG:CD	1:G:1963:GLU:HG3	2.29	0.62
1:A:716:PHE:HE2	1:A:717:ASP:HB3	1.61	0.62
1:A:806:PRO:O	1:A:808:TYR:N	2.33	0.62
1:C:161:GLU:CG	1:E:3984:ARG:HD3	2.29	0.62
1:C:1743:ARG:CD	1:C:1963:GLU:HG3	2.29	0.62
1:C:4922:PHE:HA	1:C:4926:VAL:HB	1.81	0.62
1:E:595:ARG:HH22	1:E:1641:ILE:HG12	1.65	0.62
1:E:600:LEU:HD21	1:E:1666:THR:CA	2.26	0.62
1:E:1452:TRP:CB	1:E:1527:MET:CE	2.75	0.62
1:E:2095:GLN:NE2	1:E:2127:GLN:O	2.32	0.62
1:G:2283:ASN:HB2	1:G:2286:LEU:HB2	1.81	0.62
1:A:1131:ARG:HH11	1:A:1131:ARG:CG	2.12	0.61
1:A:1616:GLU:HG3	1:A:1617:THR:HG23	1.82	0.61
1:A:2095:GLN:NE2	1:A:2127:GLN:O	2.32	0.61
1:C:479:GLN:NE2	1:C:536:ASN:OD1	2.32	0.61
1:C:683:ARG:NH1	1:C:722:TRP:CD1	2.68	0.61
1:C:1616:GLU:HG3	1:C:1617:THR:HG23	1.82	0.61
1:C:4687:TYR:HE2	1:C:4703:ARG:HA	1.65	0.61
1:A:520:ASN:ND2	1:A:556:ALA:HB1	2.15	0.61
1:A:721:LEU:C	1:A:721:LEU:HD12	2.20	0.61
1:A:1240:LYS:NZ	1:A:1610:ASN:HD22	1.97	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4687:TYR:HE2	1:A:4703:ARG:HA	1.65	0.61
1:A:4931:ILE:HG23	1:C:4940:PHE:HZ	1.63	0.61
1:C:520:ASN:ND2	1:C:556:ALA:HB1	2.15	0.61
1:C:3972:PRO:HA	1:C:4032:GLU:OE2	2.00	0.61
1:C:4220:ASP:O	1:C:4224:GLU:HG3	2.00	0.61
1:E:1828:ASP:HB3	1:E:1830:VAL:H	1.66	0.61
1:G:4901:ILE:CD1	1:G:4913:ARG:CZ	2.73	0.61
1:A:46:LEU:HD13	1:A:125:ARG:NE	2.14	0.61
1:A:49:LEU:CD2	1:A:191:VAL:CG2	2.78	0.61
1:A:4688:ILE:HD12	1:A:4737:ILE:HD12	1.82	0.61
1:C:1452:TRP:HD1	1:C:1527:MET:HE3	1.62	0.61
1:C:1706:PRO:N	1:C:1836:PHE:CE2	2.67	0.61
1:C:4222:VAL:HG11	1:C:4950:VAL:HA	1.82	0.61
1:C:4938:ASP:OD1	1:E:4944:ARG:NE	2.31	0.61
1:E:46:LEU:HD13	1:E:125:ARG:NE	2.14	0.61
1:E:552:ASP:OD1	1:E:592:LYS:NZ	2.32	0.61
1:E:2748:PRO:HD2	1:E:2751:LEU:HD12	1.81	0.61
1:G:1124:PHE:HA	1:G:1131:ARG:HA	1.81	0.61
1:A:592:LYS:HE3	1:A:1596:GLU:OE2	2.01	0.61
1:A:595:ARG:HH22	1:A:1641:ILE:HG12	1.65	0.61
1:A:4979:THR:O	1:A:4984:ASN:N	2.28	0.61
1:C:49:LEU:HD23	1:C:191:VAL:HG23	1.81	0.61
1:C:1579:MET:O	1:C:1582:SER:OG	2.15	0.61
1:C:4180:ARG:HG2	1:C:4180:ARG:NH1	2.14	0.61
1:E:683:ARG:NH1	1:E:722:TRP:CD1	2.68	0.61
1:E:3972:PRO:HA	1:E:4032:GLU:OE2	2.00	0.61
1:E:4180:ARG:HB3	1:E:4194:TYR:HD1	1.66	0.61
1:G:70:GLU:C	1:G:71:GLN:HG2	2.18	0.61
1:G:683:ARG:NH1	1:G:722:TRP:CD1	2.68	0.61
1:G:1131:ARG:CD	1:G:1139:PHE:CD1	2.83	0.61
1:G:4687:TYR:CD2	1:G:4706:LEU:CD2	2.84	0.61
1:A:683:ARG:NH1	1:A:722:TRP:CD1	2.68	0.61
1:A:1436:SER:HA	1:A:1516:ILE:HA	1.83	0.61
1:A:4687:TYR:CD2	1:A:4706:LEU:CD2	2.84	0.61
1:C:648:ILE:HD12	1:C:815:VAL:HA	1.82	0.61
1:C:4053:SER:O	1:C:4056:GLU:HB3	2.01	0.61
1:E:607:CYS:O	1:E:618:GLN:NE2	2.25	0.61
1:E:2198:MET:CE	1:E:2203:MET:HE3	2.12	0.61
1:A:648:ILE:HD12	1:A:815:VAL:HA	1.82	0.61
1:A:802:PHE:O	1:A:804:PRO:HD3	2.00	0.61
1:A:4680:LYS:HB3	1:A:4686:LEU:HD22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:23:GLN:OE1	1:C:203:ASN:ND2	2.34	0.61
1:C:2756:ASN:OD1	1:C:2806:ARG:NH2	2.33	0.61
1:C:3767:GLN:NE2	1:C:3805:LEU:O	2.33	0.61
1:E:520:ASN:ND2	1:E:556:ALA:HB1	2.15	0.61
1:E:2137:ALA:HA	1:E:2140:ARG:HH21	1.66	0.61
1:E:4222:VAL:HG11	1:E:4950:VAL:HA	1.82	0.61
1:E:4687:TYR:CD2	1:E:4706:LEU:CD2	2.84	0.61
1:E:4688:ILE:HD12	1:E:4737:ILE:HD12	1.82	0.61
1:G:46:LEU:HD13	1:G:125:ARG:NE	2.14	0.61
1:G:49:LEU:CD2	1:G:191:VAL:CG2	2.78	0.61
1:A:552:ASP:OD1	1:A:592:LYS:NZ	2.32	0.61
1:A:1743:ARG:HB2	1:A:1963:GLU:CG	2.28	0.61
1:A:4145:VAL:O	1:A:4149:ASN:N	2.32	0.61
1:C:49:LEU:CD2	1:C:191:VAL:CG2	2.78	0.61
1:C:4898:GLY:HA2	1:C:4901:ILE:HG22	1.82	0.61
1:E:49:LEU:HD21	1:E:191:VAL:HG23	1.82	0.61
1:E:721:LEU:C	1:E:721:LEU:HD12	2.20	0.61
1:E:1131:ARG:CD	1:E:1139:PHE:CD1	2.83	0.61
1:E:3767:GLN:NE2	1:E:3805:LEU:O	2.33	0.61
1:G:520:ASN:ND2	1:G:556:ALA:HB1	2.15	0.61
1:G:1131:ARG:HH11	1:G:1131:ARG:CG	2.12	0.61
1:G:1615:VAL:HG12	1:G:1634:LEU:HD13	1.83	0.61
1:G:3972:PRO:HA	1:G:4032:GLU:OE2	2.00	0.61
1:G:4010:ILE:HD12	1:G:4010:ILE:C	2.20	0.61
1:G:4922:PHE:HA	1:G:4926:VAL:HB	1.81	0.61
1:A:23:GLN:OE1	1:A:203:ASN:ND2	2.34	0.61
1:A:681:HIS:CA	1:A:716:PHE:HD1	2.06	0.61
1:A:2556:LEU:O	1:A:2560:PRO:HD3	2.01	0.61
1:C:125:ARG:CB	1:C:134:ASP:CG	2.53	0.61
1:C:1098:GLY:HA3	1:C:1198:GLN:HE21	1.65	0.61
1:C:2198:MET:HE1	1:C:2203:MET:CE	2.25	0.61
1:C:4168:GLU:OE2	1:C:4175:ARG:NH2	2.32	0.61
1:C:4235:VAL:HG11	1:C:5019:TRP:CH2	2.36	0.61
1:G:802:PHE:O	1:G:804:PRO:HD3	2.00	0.61
1:G:1762:LEU:HD13	1:G:1763:PRO:HD2	1.81	0.61
1:G:2198:MET:HE1	1:G:2203:MET:CE	2.29	0.61
1:C:2423:MET:HG3	1:C:2498:HIS:CE1	2.36	0.61
1:C:4687:TYR:CD2	1:C:4706:LEU:CD2	2.84	0.61
1:E:49:LEU:CG	1:E:189:LEU:O	2.48	0.61
1:E:628:GLY:O	1:E:630:GLU:N	2.31	0.61
1:G:3669:PHE:O	1:G:3672:ARG:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4180:ARG:HB3	1:G:4194:TYR:HD1	1.66	0.61
1:G:4680:LYS:HB3	1:G:4686:LEU:HD22	1.83	0.61
1:A:70:GLU:C	1:A:71:GLN:HG2	2.18	0.61
1:A:1452:TRP:HD1	1:A:1527:MET:HE3	1.64	0.61
1:A:1743:ARG:CD	1:A:1963:GLU:HG3	2.29	0.61
1:A:2423:MET:HG3	1:A:2498:HIS:CE1	2.36	0.61
1:C:313:SER:O	1:C:350:HIS:ND1	2.34	0.61
1:C:736:HIS:NE2	1:C:739:ALA:HB2	2.14	0.61
1:C:2854:GLY:O	1:C:2856:ASN:ND2	2.33	0.61
1:C:3669:PHE:HE1	1:C:3670:GLU:OE1	1.81	0.61
1:E:23:GLN:OE1	1:E:203:ASN:ND2	2.34	0.61
1:E:806:PRO:O	1:E:808:TYR:N	2.33	0.61
1:E:1109:LEU:HA	1:E:1120:LEU:HD13	1.83	0.61
1:E:1762:LEU:HD13	1:E:1763:PRO:HD2	1.81	0.61
1:E:2556:LEU:O	1:E:2560:PRO:HD3	2.01	0.61
1:G:4180:ARG:CG	1:G:4180:ARG:HH11	2.14	0.61
1:C:2770:LYS:HB3	1:C:2775:TRP:HB2	1.83	0.60
1:C:4180:ARG:HB3	1:C:4194:TYR:HD1	1.66	0.60
1:C:4187:SER:CB	1:C:4189:ARG:HE	2.14	0.60
1:E:1615:VAL:HG12	1:E:1634:LEU:HD13	1.83	0.60
1:E:1857:GLU:H	1:E:1857:GLU:CD	1.97	0.60
1:E:4235:VAL:HG11	1:E:5019:TRP:CH2	2.36	0.60
1:G:2556:LEU:O	1:G:2560:PRO:HD3	2.01	0.60
1:G:4053:SER:O	1:G:4056:GLU:HB3	2.01	0.60
1:A:4053:SER:O	1:A:4056:GLU:HB3	2.01	0.60
1:A:4055:VAL:HA	1:A:4058:ILE:HG12	1.83	0.60
1:C:2246:ASN:O	1:C:2249:SER:OG	2.13	0.60
1:C:3669:PHE:HD1	1:C:3670:GLU:N	1.85	0.60
1:C:3669:PHE:O	1:C:3672:ARG:N	2.34	0.60
1:C:4145:VAL:O	1:C:4149:ASN:N	2.32	0.60
1:C:4688:ILE:HD12	1:C:4737:ILE:HD12	1.82	0.60
1:E:4168:GLU:OE2	1:E:4175:ARG:NH2	2.32	0.60
1:G:644:ILE:HD12	1:G:783:PHE:HE1	1.66	0.60
1:G:806:PRO:O	1:G:808:TYR:N	2.33	0.60
1:G:1805:GLU:HA	1:G:1808:ARG:HG2	1.83	0.60
1:G:2137:ALA:HA	1:G:2140:ARG:HH21	1.66	0.60
1:G:4181:ILE:HD13	1:G:4991:PHE:CD1	2.34	0.60
1:A:736:HIS:HE1	1:A:739:ALA:HB2	1.56	0.60
1:A:2137:ALA:HA	1:A:2140:ARG:HH21	1.66	0.60
1:A:2770:LYS:HB3	1:A:2775:TRP:HB2	1.83	0.60
1:C:33:LEU:HD12	1:C:53:SER:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2299:VAL:HG21	1:C:2356:LEU:HB3	1.82	0.60
1:E:592:LYS:HE3	1:E:1596:GLU:OE2	2.01	0.60
1:E:1140:GLY:HA3	1:E:1169:LEU:HD13	1.83	0.60
1:E:1585:LYS:NZ	1:E:1599:MET:SD	2.74	0.60
1:E:1616:GLU:HG3	1:E:1617:THR:HG23	1.82	0.60
1:E:2246:ASN:O	1:E:2249:SER:OG	2.13	0.60
1:G:49:LEU:CG	1:G:189:LEU:O	2.48	0.60
1:G:648:ILE:HD12	1:G:815:VAL:HA	1.82	0.60
1:G:2246:ASN:O	1:G:2249:SER:OG	2.13	0.60
1:G:4055:VAL:HA	1:G:4058:ILE:HG12	1.83	0.60
1:A:1131:ARG:CD	1:A:1139:PHE:CD1	2.83	0.60
1:A:1140:GLY:HA3	1:A:1169:LEU:HD13	1.83	0.60
1:A:1815:LEU:HD21	1:A:1845:VAL:HG21	1.84	0.60
1:A:3669:PHE:O	1:A:3672:ARG:N	2.34	0.60
1:A:3767:GLN:NE2	1:A:3805:LEU:O	2.33	0.60
1:A:4235:VAL:HG11	1:A:5019:TRP:CH2	2.36	0.60
1:A:4938:ASP:OD1	1:C:4944:ARG:NE	2.31	0.60
1:C:2100:HIS:O	1:C:2104:ARG:HG2	2.01	0.60
1:C:4055:VAL:HA	1:C:4058:ILE:HG12	1.83	0.60
1:C:4180:ARG:HH11	1:C:4180:ARG:CG	2.14	0.60
1:E:1098:GLY:HA3	1:E:1198:GLN:HE21	1.65	0.60
1:E:1815:LEU:HD21	1:E:1845:VAL:HG21	1.84	0.60
1:E:3963:ASN:O	1:E:3966:THR:OG1	2.15	0.60
1:E:4903:ASP:N	1:E:4903:ASP:OD1	2.34	0.60
1:G:4898:GLY:HA2	1:G:4901:ILE:HG22	1.82	0.60
1:A:644:ILE:HD12	1:A:783:PHE:HE1	1.66	0.60
1:A:1098:GLY:HA3	1:A:1198:GLN:HE21	1.65	0.60
1:A:1122:TYR:CZ	1:A:1133:HIS:HE1	2.20	0.60
1:C:1140:GLY:HA3	1:C:1169:LEU:HD13	1.83	0.60
1:E:33:LEU:HD12	1:E:53:SER:HB2	1.82	0.60
1:E:1436:SER:HA	1:E:1516:ILE:HA	1.83	0.60
1:E:2299:VAL:HG21	1:E:2356:LEU:HB3	1.82	0.60
1:E:4181:ILE:HD13	1:E:4991:PHE:CD1	2.34	0.60
1:E:4898:GLY:HA2	1:E:4901:ILE:HG22	1.82	0.60
1:G:1109:LEU:HA	1:G:1120:LEU:HD13	1.83	0.60
1:G:2770:LYS:HB3	1:G:2775:TRP:HB2	1.83	0.60
1:G:2774:ASN:OD1	1:G:2852:ARG:NE	2.34	0.60
1:G:4187:SER:CB	1:G:4189:ARG:HE	2.14	0.60
1:G:4688:ILE:HD12	1:G:4737:ILE:HD12	1.82	0.60
1:A:49:LEU:HD21	1:A:191:VAL:HG23	1.82	0.60
1:A:600:LEU:HD21	1:A:1666:THR:CA	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:721:LEU:HD23	1:A:767:VAL:HG11	1.79	0.60
1:A:876:GLU:HG3	1:A:910:PHE:HB3	1.84	0.60
1:A:3972:PRO:HA	1:A:4032:GLU:OE2	2.00	0.60
1:A:4180:ARG:HB3	1:A:4194:TYR:HD1	1.66	0.60
1:A:4180:ARG:HH11	1:A:4180:ARG:CG	2.14	0.60
1:A:4222:VAL:HG11	1:A:4950:VAL:HA	1.82	0.60
1:C:802:PHE:O	1:C:804:PRO:HD3	2.00	0.60
1:C:891:TRP:HH2	1:C:899:ASP:HA	1.67	0.60
1:C:2137:ALA:HA	1:C:2140:ARG:HH21	1.66	0.60
1:C:2774:ASN:OD1	1:C:2852:ARG:NE	2.34	0.60
1:C:3934:TYR:O	1:C:3938:SER:N	2.34	0.60
1:E:49:LEU:HD23	1:E:191:VAL:HG23	1.81	0.60
1:E:125:ARG:HD2	1:E:134:ASP:OD2	2.02	0.60
1:E:1432:THR:N	1:E:1519:LEU:O	2.35	0.60
1:E:1805:GLU:HA	1:E:1808:ARG:HG2	1.83	0.60
1:G:1432:THR:N	1:G:1519:LEU:O	2.35	0.60
1:G:1585:LYS:NZ	1:G:1599:MET:SD	2.74	0.60
1:G:1857:GLU:H	1:G:1857:GLU:CD	1.97	0.60
1:G:3767:GLN:NE2	1:G:3805:LEU:O	2.33	0.60
1:G:4687:TYR:HE2	1:G:4703:ARG:HA	1.65	0.60
1:A:45:ARG:NH2	1:A:116:MET:HE1	2.10	0.60
1:A:1585:LYS:NZ	1:A:1599:MET:SD	2.74	0.60
1:A:4806:ASN:O	1:A:4809:PHE:HB3	2.02	0.60
1:A:4895:GLY:HA2	1:A:4921:PHE:HE1	1.67	0.60
1:C:421:PHE:HE2	1:C:436:LEU:HD21	1.66	0.60
1:C:1585:LYS:NZ	1:C:1599:MET:SD	2.74	0.60
1:C:1815:LEU:HD21	1:C:1845:VAL:HG21	1.84	0.60
1:C:1828:ASP:HB3	1:C:1830:VAL:H	1.66	0.60
1:C:4806:ASN:O	1:C:4809:PHE:HB3	2.02	0.60
1:E:2774:ASN:OD1	1:E:2852:ARG:NE	2.34	0.60
1:E:4180:ARG:CG	1:E:4180:ARG:HH11	2.14	0.60
1:E:4806:ASN:O	1:E:4809:PHE:HB3	2.02	0.60
1:G:1140:GLY:HA3	1:G:1169:LEU:HD13	1.83	0.60
1:G:1743:ARG:HB2	1:G:1963:GLU:CG	2.28	0.60
1:G:1828:ASP:HB3	1:G:1830:VAL:H	1.66	0.60
1:G:4222:VAL:HG11	1:G:4950:VAL:HA	1.82	0.60
1:A:157:ARG:HH22	1:A:164:ARG:HG2	1.67	0.60
1:A:1079:LYS:HG3	1:A:1237:TRP:CH2	2.37	0.60
1:A:1828:ASP:HB3	1:A:1830:VAL:H	1.66	0.60
1:A:2625:UNK:HA	1:A:2910:THR:HG22	1.84	0.60
1:A:3970:GLN:HE22	1:A:4029:SER:CB	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:LEU:CG	1:C:189:LEU:O	2.48	0.60
1:C:157:ARG:HH22	1:C:164:ARG:HG2	1.67	0.60
1:C:1432:THR:N	1:C:1519:LEU:O	2.35	0.60
1:C:2556:LEU:O	1:C:2560:PRO:HD3	2.01	0.60
1:C:3919:THR:HG21	1:C:3968:TYR:HE2	1.67	0.60
1:C:4895:GLY:HA2	1:C:4921:PHE:HE1	1.67	0.60
1:E:421:PHE:HE2	1:E:436:LEU:HD21	1.66	0.60
1:E:802:PHE:O	1:E:804:PRO:HD3	2.00	0.60
1:E:1093:GLU:OE1	1:E:1201:HIS:ND1	2.35	0.60
1:E:1706:PRO:N	1:E:1836:PHE:CE2	2.67	0.60
1:G:592:LYS:HE3	1:G:1596:GLU:OE2	2.01	0.60
1:G:2146:PRO:HA	1:G:2149:VAL:HG13	1.84	0.60
1:G:4806:ASN:O	1:G:4809:PHE:HB3	2.02	0.60
1:A:4181:ILE:HD13	1:A:4991:PHE:CD1	2.34	0.60
1:C:592:LYS:HE3	1:C:1596:GLU:OE2	2.01	0.60
1:C:1093:GLU:OE1	1:C:1201:HIS:ND1	2.35	0.60
1:C:2066:LEU:O	1:C:2069:THR:OG1	2.13	0.60
1:C:4680:LYS:HB3	1:C:4686:LEU:HD22	1.83	0.60
1:C:4903:ASP:OD1	1:C:4903:ASP:N	2.34	0.60
1:E:648:ILE:HD12	1:E:815:VAL:HA	1.82	0.60
1:E:2423:MET:HG3	1:E:2498:HIS:CE1	2.36	0.60
1:E:4053:SER:O	1:E:4056:GLU:HB3	2.01	0.60
1:E:4055:VAL:HA	1:E:4058:ILE:HG12	1.83	0.60
1:E:4687:TYR:HE2	1:E:4703:ARG:HA	1.65	0.60
1:G:446:GLN:HG3	1:G:521:LEU:HD21	1.84	0.60
1:G:472:ARG:NH1	1:G:532:GLY:O	2.32	0.60
1:G:1098:GLY:HA3	1:G:1198:GLN:HE21	1.65	0.60
1:G:1122:TYR:CZ	1:G:1133:HIS:HE1	2.20	0.60
1:G:3970:GLN:HE22	1:G:4029:SER:CB	2.15	0.60
1:A:1615:VAL:HG12	1:A:1634:LEU:HD13	1.83	0.60
1:A:4187:SER:CB	1:A:4189:ARG:HE	2.14	0.60
1:C:628:GLY:O	1:C:630:GLU:N	2.31	0.60
1:C:3970:GLN:HE22	1:C:4029:SER:CB	2.15	0.60
1:E:313:SER:O	1:E:350:HIS:ND1	2.34	0.60
1:E:2146:PRO:HA	1:E:2149:VAL:HG13	1.84	0.60
1:E:2770:LYS:HB3	1:E:2775:TRP:HB2	1.83	0.60
1:G:23:GLN:OE1	1:G:203:ASN:ND2	2.34	0.60
1:G:1436:SER:HA	1:G:1516:ILE:HA	1.83	0.60
1:G:2100:HIS:O	1:G:2104:ARG:HG2	2.01	0.60
1:A:313:SER:O	1:A:350:HIS:ND1	2.34	0.59
1:A:3984:ARG:HD3	1:G:161:GLU:HG3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:644:ILE:HD12	1:C:783:PHE:HE1	1.66	0.59
1:C:768:PHE:HB3	1:C:771:PHE:CZ	2.37	0.59
1:E:446:GLN:HG3	1:E:521:LEU:HD21	1.84	0.59
1:E:721:LEU:HD12	1:E:722:TRP:N	2.17	0.59
1:E:840:VAL:HA	1:E:1199:VAL:HG22	1.84	0.59
1:E:3970:GLN:HE22	1:E:4029:SER:CB	2.15	0.59
1:E:4172:GLU:HG2	1:E:4175:ARG:HH12	1.67	0.59
1:G:721:LEU:HD12	1:G:722:TRP:N	2.17	0.59
1:G:2423:MET:HG3	1:G:2498:HIS:CE1	2.36	0.59
1:G:3934:TYR:O	1:G:3938:SER:N	2.34	0.59
1:A:421:PHE:HE2	1:A:436:LEU:HD21	1.66	0.59
1:A:622:THR:O	1:A:627:PRO:HD3	2.02	0.59
1:A:768:PHE:HB3	1:A:771:PHE:CZ	2.37	0.59
1:A:835:ARG:NH2	1:A:1093:GLU:OE2	2.32	0.59
1:A:4948:GLU:OE2	1:G:4949:GLN:NE2	2.35	0.59
1:C:25:SER:HA	1:C:34:LYS:HG2	1.85	0.59
1:C:840:VAL:HA	1:C:1199:VAL:HG22	1.84	0.59
1:C:1079:LYS:HG3	1:C:1237:TRP:CH2	2.37	0.59
1:C:1105:ALA:HB3	1:C:1191:VAL:HG21	1.84	0.59
1:E:4010:ILE:HD12	1:E:4010:ILE:C	2.20	0.59
1:E:4187:SER:CB	1:E:4189:ARG:HE	2.14	0.59
1:E:4227:GLU:HG2	1:E:4228:ALA:H	1.67	0.59
1:E:4251:ILE:HG21	1:E:4557:ARG:HB3	1.84	0.59
1:G:622:THR:O	1:G:627:PRO:HD3	2.02	0.59
1:A:161:GLU:HG3	1:C:3984:ARG:HD3	1.84	0.59
1:C:167:ASP:CG	1:E:384:MET:HE1	2.22	0.59
1:C:4172:GLU:HG2	1:C:4175:ARG:HH12	1.67	0.59
1:E:572:PRO:HB3	1:E:609:CYS:HB3	1.84	0.59
1:E:876:GLU:HG3	1:E:910:PHE:HB3	1.84	0.59
1:E:4895:GLY:HA2	1:E:4921:PHE:HE1	1.67	0.59
1:E:4904:PRO:HG2	1:E:4910:GLU:CG	2.28	0.59
1:G:49:LEU:HD21	1:G:191:VAL:HG23	1.82	0.59
1:G:70:GLU:O	1:G:71:GLN:CG	2.40	0.59
1:G:3919:THR:HG21	1:G:3968:TYR:HE2	1.67	0.59
1:G:4631:PHE:CE2	1:G:4633:GLU:HB3	2.37	0.59
1:A:1705:GLY:C	1:A:1836:PHE:HD2	2.06	0.59
1:A:4227:GLU:HG2	1:A:4228:ALA:H	1.67	0.59
1:A:4631:PHE:CE2	1:A:4633:GLU:HB3	2.37	0.59
1:C:721:LEU:HD12	1:C:722:TRP:N	2.17	0.59
1:C:876:GLU:HG3	1:C:910:PHE:HB3	1.84	0.59
1:C:1109:LEU:HA	1:C:1120:LEU:HD13	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1615:VAL:HG12	1:C:1634:LEU:HD13	1.83	0.59
1:C:4904:PRO:HG2	1:C:4910:GLU:CG	2.28	0.59
1:E:554:LEU:HD21	1:E:593:HIS:CE1	2.37	0.59
1:E:891:TRP:HH2	1:E:899:ASP:HA	1.67	0.59
1:E:3934:TYR:O	1:E:3938:SER:N	2.34	0.59
1:G:554:LEU:HD21	1:G:593:HIS:CE1	2.37	0.59
1:G:891:TRP:HH2	1:G:899:ASP:HA	1.67	0.59
1:G:4168:GLU:OE2	1:G:4175:ARG:NH2	2.32	0.59
1:G:4235:VAL:HG11	1:G:5019:TRP:CH2	2.36	0.59
2:B:74:LEU:HB2	2:B:99:PHE:HB2	1.85	0.59
1:C:1122:TYR:CZ	1:C:1133:HIS:HE1	2.20	0.59
1:C:2166:LEU:HD12	1:C:2206:THR:HG23	1.85	0.59
2:D:74:LEU:HB2	2:D:99:PHE:HB2	1.85	0.59
1:E:25:SER:HA	1:E:34:LYS:HG2	1.85	0.59
1:E:1122:TYR:CZ	1:E:1133:HIS:HE1	2.20	0.59
1:E:4680:LYS:HB3	1:E:4686:LEU:HD22	1.83	0.59
1:G:157:ARG:HH22	1:G:164:ARG:HG2	1.67	0.59
1:G:1079:LYS:HG3	1:G:1237:TRP:CH2	2.37	0.59
1:G:1105:ALA:HB3	1:G:1191:VAL:HG21	1.84	0.59
1:G:1705:GLY:C	1:G:1836:PHE:HD2	2.06	0.59
1:G:1815:LEU:HD21	1:G:1845:VAL:HG21	1.84	0.59
1:G:4686:LEU:CD2	1:G:4687:TYR:CE1	2.85	0.59
1:A:1105:ALA:HB3	1:A:1191:VAL:HG21	1.84	0.59
1:A:2100:HIS:O	1:A:2104:ARG:HG2	2.01	0.59
1:A:2774:ASN:OD1	1:A:2852:ARG:NE	2.34	0.59
1:A:4172:GLU:HG2	1:A:4175:ARG:HH12	1.67	0.59
1:A:4823:LEU:HD11	1:G:4843:LEU:HB2	1.85	0.59
1:C:622:THR:O	1:C:627:PRO:HD3	2.02	0.59
1:C:1705:GLY:C	1:C:1836:PHE:HD2	2.06	0.59
1:E:157:ARG:HH22	1:E:164:ARG:HG2	1.67	0.59
1:E:644:ILE:HD12	1:E:783:PHE:HE1	1.66	0.59
1:E:1087:ARG:NH1	1:E:1221:GLU:O	2.36	0.59
1:E:1105:ALA:HB3	1:E:1191:VAL:HG21	1.84	0.59
1:E:1782:PHE:HD2	2:F:37:ASP:HB2	1.67	0.59
1:G:421:PHE:HE2	1:G:436:LEU:HD21	1.66	0.59
1:G:768:PHE:HB3	1:G:771:PHE:CZ	2.37	0.59
1:G:4172:GLU:HG2	1:G:4175:ARG:HH12	1.67	0.59
1:G:4904:PRO:HG2	1:G:4910:GLU:CG	2.28	0.59
1:A:167:ASP:OD1	1:C:384:MET:SD	2.61	0.59
1:A:721:LEU:HD12	1:A:722:TRP:N	2.17	0.59
1:A:1109:LEU:HA	1:A:1120:LEU:HD13	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1805:GLU:HA	1:A:1808:ARG:HG2	1.83	0.59
1:A:2146:PRO:HA	1:A:2149:VAL:HG13	1.84	0.59
1:A:3934:TYR:O	1:A:3938:SER:N	2.34	0.59
1:A:4687:TYR:CE2	1:A:4703:ARG:HG2	2.38	0.59
1:C:3841:VAL:CG1	1:C:3842:LEU:H	2.16	0.59
1:E:646:PRO:HB2	1:E:793:LEU:CD1	2.26	0.59
1:E:1079:LYS:HG3	1:E:1237:TRP:CH2	2.37	0.59
2:F:4:VAL:HG22	2:F:74:LEU:HG	1.85	0.59
1:G:125:ARG:HD2	1:G:134:ASP:OD2	2.02	0.59
1:G:313:SER:O	1:G:350:HIS:ND1	2.34	0.59
1:G:736:HIS:CE1	1:G:739:ALA:CB	2.78	0.59
1:G:4195:PHE:CE1	1:G:4197:ILE:HG12	2.30	0.59
1:G:4895:GLY:HA2	1:G:4921:PHE:HE1	1.67	0.59
1:A:1093:GLU:OE1	1:A:1201:HIS:ND1	2.35	0.59
1:A:1432:THR:N	1:A:1519:LEU:O	2.35	0.59
1:A:4010:ILE:HD12	1:A:4010:ILE:C	2.20	0.59
1:A:4949:GLN:NE2	1:C:4948:GLU:OE2	2.35	0.59
1:C:446:GLN:HG3	1:C:521:LEU:HD21	1.84	0.59
1:C:598:LYS:H	1:C:598:LYS:CD	2.00	0.59
1:C:1805:GLU:HA	1:C:1808:ARG:HG2	1.83	0.59
1:E:1705:GLY:C	1:E:1836:PHE:HD2	2.06	0.59
1:E:2100:HIS:O	1:E:2104:ARG:HG2	2.01	0.59
1:E:3919:THR:HG21	1:E:3968:TYR:HE2	1.67	0.59
1:E:4722:ARG:O	1:E:4725:LEU:HG	2.02	0.59
1:E:4730:ASP:OD1	1:E:4734:ARG:NH2	2.36	0.59
1:G:876:GLU:HG3	1:G:910:PHE:HB3	1.84	0.59
1:G:3841:VAL:CG1	1:G:3842:LEU:H	2.16	0.59
1:A:2166:LEU:HD12	1:A:2206:THR:HG23	1.85	0.59
1:A:4722:ARG:O	1:A:4725:LEU:HG	2.02	0.59
1:C:161:GLU:HG3	1:E:3984:ARG:HD3	1.84	0.59
1:C:221:ARG:NE	1:C:258:SER:OG	2.36	0.59
1:C:284:HIS:CD2	1:C:287:THR:H	2.21	0.59
1:C:4010:ILE:HD12	1:C:4010:ILE:C	2.20	0.59
1:E:3669:PHE:O	1:E:3672:ARG:N	2.34	0.59
1:E:4687:TYR:CE2	1:E:4703:ARG:HG2	2.38	0.59
1:A:554:LEU:HD21	1:A:593:HIS:CE1	2.37	0.59
1:A:572:PRO:HB3	1:A:609:CYS:HB3	1.84	0.59
1:A:736:HIS:CE1	1:A:739:ALA:CB	2.78	0.59
1:A:1018:ASN:CB	1:A:1021:LEU:CD2	2.58	0.59
1:A:3670:GLU:HG2	1:A:3728:ILE:CB	2.33	0.59
1:C:572:PRO:HB3	1:C:609:CYS:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1436:SER:HA	1:C:1516:ILE:HA	1.83	0.59
1:C:4251:ILE:HG21	1:C:4557:ARG:HB3	1.84	0.59
1:C:4722:ARG:O	1:C:4725:LEU:HG	2.02	0.59
1:C:4949:GLN:NE2	1:E:4948:GLU:OE2	2.35	0.59
1:E:167:ASP:OD1	1:G:384:MET:SD	2.61	0.59
1:E:221:ARG:NE	1:E:258:SER:OG	2.36	0.59
1:E:1240:LYS:HZ1	1:E:1610:ASN:HD22	1.50	0.59
1:E:1763:PRO:HG3	1:E:2094:LEU:HD22	1.85	0.59
1:E:2773:ASN:HD22	1:E:2775:TRP:HE1	1.51	0.59
1:E:2929:PHE:O	1:E:2933:ASN:ND2	2.34	0.59
1:G:1087:ARG:NH1	1:G:1221:GLU:O	2.36	0.59
1:G:2773:ASN:HD22	1:G:2775:TRP:HE1	1.51	0.59
1:G:4251:ILE:HG21	1:G:4557:ARG:HB3	1.84	0.59
1:G:4687:TYR:CE2	1:G:4703:ARG:HG2	2.38	0.59
1:A:603:LEU:HD13	1:A:625:LEU:HD11	1.85	0.58
1:A:628:GLY:O	1:A:630:GLU:N	2.31	0.58
1:A:840:VAL:HA	1:A:1199:VAL:HG22	1.84	0.58
1:A:3674:ILE:HG13	1:A:3732:SER:HB3	1.85	0.58
1:A:3841:VAL:CG1	1:A:3842:LEU:H	2.16	0.58
1:A:3919:THR:HG21	1:A:3968:TYR:HE2	1.67	0.58
1:C:1782:PHE:HD2	2:D:37:ASP:HB2	1.67	0.58
1:E:3969:ILE:HG23	1:E:3977:GLN:HG2	1.85	0.58
1:E:4843:LEU:HB2	1:G:4823:LEU:HD11	1.85	0.58
1:E:4949:GLN:NE2	1:G:4948:GLU:OE2	2.35	0.58
1:G:25:SER:HA	1:G:34:LYS:HG2	1.85	0.58
1:G:840:VAL:HA	1:G:1199:VAL:HG22	1.84	0.58
1:G:3841:VAL:HG12	1:G:3842:LEU:H	1.68	0.58
1:G:4227:GLU:HG2	1:G:4228:ALA:H	1.67	0.58
1:G:4730:ASP:OD1	1:G:4734:ARG:NH2	2.36	0.58
2:B:4:VAL:HG22	2:B:74:LEU:HG	1.85	0.58
1:C:692:TYR:CD1	1:C:711:LEU:HD21	2.38	0.58
1:C:1652:GLU:O	1:C:1655:GLU:HG2	2.04	0.58
1:C:2146:PRO:HA	1:C:2149:VAL:HG13	1.84	0.58
1:C:2907:PRO:O	1:C:2910:THR:OG1	2.14	0.58
1:C:4710:SER:O	1:C:4713:SER:OG	2.16	0.58
1:C:4730:ASP:OD1	1:C:4734:ARG:NH2	2.36	0.58
1:E:2625:UNK:HA	1:E:2910:THR:HG22	1.84	0.58
1:E:4693:GLY:C	1:E:4695:ASP:N	2.44	0.58
1:G:1763:PRO:HG3	1:G:2094:LEU:HD22	1.85	0.58
1:G:3674:ILE:HG13	1:G:3732:SER:HB3	1.85	0.58
1:A:49:LEU:CG	1:A:189:LEU:O	2.48	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:272:SER:HB2	1:A:334:MET:O	2.03	0.58
1:A:598:LYS:H	1:A:598:LYS:CD	2.00	0.58
1:A:1652:GLU:O	1:A:1655:GLU:HG2	2.04	0.58
1:A:4710:SER:O	1:A:4713:SER:OG	2.16	0.58
1:A:4730:ASP:OD1	1:A:4734:ARG:NH2	2.36	0.58
1:C:70:GLU:O	1:C:71:GLN:CG	2.40	0.58
1:C:167:ASP:OD1	1:E:384:MET:SD	2.61	0.58
1:C:1743:ARG:HB2	1:C:1963:GLU:CG	2.28	0.58
1:E:1652:GLU:O	1:E:1655:GLU:HG2	2.04	0.58
2:F:74:LEU:HB2	2:F:99:PHE:HB2	1.85	0.58
1:G:1782:PHE:HD2	2:H:37:ASP:HB2	1.67	0.58
1:G:4145:VAL:O	1:G:4149:ASN:N	2.32	0.58
1:A:25:SER:HA	1:A:34:LYS:HG2	1.85	0.58
1:A:721:LEU:HD22	1:A:767:VAL:HG12	1.79	0.58
1:A:2246:ASN:O	1:A:2249:SER:OG	2.13	0.58
1:C:49:LEU:HD21	1:C:191:VAL:HG23	1.82	0.58
1:C:554:LEU:HD21	1:C:593:HIS:CE1	2.37	0.58
1:C:3674:ILE:HG13	1:C:3732:SER:HB3	1.85	0.58
1:E:284:HIS:CD2	1:E:287:THR:H	2.21	0.58
1:E:622:THR:O	1:E:627:PRO:HD3	2.02	0.58
1:G:3670:GLU:HG2	1:G:3728:ILE:CB	2.33	0.58
1:A:891:TRP:HH2	1:A:899:ASP:HA	1.67	0.58
1:A:4843:LEU:HB2	1:C:4823:LEU:HD11	1.85	0.58
1:C:603:LEU:HD13	1:C:625:LEU:HD11	1.85	0.58
1:C:3670:GLU:HG2	1:C:3728:ILE:CB	2.33	0.58
1:C:4631:PHE:CE2	1:C:4633:GLU:HB3	2.37	0.58
1:E:768:PHE:HB3	1:E:771:PHE:CZ	2.37	0.58
1:E:1739:THR:O	1:E:1742:THR:OG1	2.17	0.58
1:E:1761:GLY:O	1:E:1762:LEU:CB	2.51	0.58
1:E:4631:PHE:CE2	1:E:4633:GLU:HB3	2.37	0.58
1:G:125:ARG:CB	1:G:134:ASP:CG	2.53	0.58
1:G:1148:VAL:HG11	1:G:1213:PHE:HD2	1.69	0.58
1:G:3969:ILE:HG23	1:G:3977:GLN:HG2	1.85	0.58
1:G:4903:ASP:N	1:G:4903:ASP:OD1	2.34	0.58
2:H:74:LEU:HB2	2:H:99:PHE:HB2	1.85	0.58
1:A:1782:PHE:HD2	2:B:37:ASP:HB2	1.67	0.58
1:A:4251:ILE:HG21	1:A:4557:ARG:HB3	1.84	0.58
1:C:839:LEU:HB3	1:C:1075:PHE:CE2	2.39	0.58
1:E:472:ARG:NH1	1:E:532:GLY:O	2.32	0.58
1:G:45:ARG:NH2	1:G:116:MET:HE1	2.15	0.58
1:G:755:ILE:HB	1:G:768:PHE:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1761:GLY:O	1:G:1762:LEU:CB	2.51	0.58
1:G:2625:UNK:HA	1:G:2910:THR:HG22	1.84	0.58
1:A:446:GLN:HG3	1:A:521:LEU:HD21	1.84	0.58
1:A:839:LEU:HB3	1:A:1075:PHE:CE2	2.39	0.58
1:A:1761:GLY:O	1:A:1762:LEU:CB	2.51	0.58
1:C:272:SER:HB2	1:C:334:MET:O	2.03	0.58
1:E:1838:PHE:O	1:E:1841:VAL:N	2.37	0.58
1:E:3674:ILE:HG13	1:E:3732:SER:HB3	1.85	0.58
1:E:4180:ARG:HG2	1:E:4180:ARG:HH11	1.69	0.58
1:G:600:LEU:HD21	1:G:1666:THR:CA	2.26	0.58
1:G:1856:ASP:N	1:G:1857:GLU:OE2	2.36	0.58
1:A:1856:ASP:N	1:A:1857:GLU:OE2	2.36	0.58
1:C:1763:PRO:HG3	1:C:2094:LEU:HD22	1.85	0.58
1:C:2625:UNK:HA	1:C:2910:THR:HG22	1.84	0.58
1:C:3841:VAL:HG12	1:C:3842:LEU:H	1.68	0.58
1:C:4227:GLU:HG2	1:C:4228:ALA:H	1.67	0.58
1:C:4687:TYR:CE2	1:C:4703:ARG:HG2	2.38	0.58
1:E:70:GLU:O	1:E:71:GLN:CG	2.40	0.58
1:G:284:HIS:CD2	1:G:287:THR:H	2.21	0.58
1:G:835:ARG:NH2	1:G:1093:GLU:OE2	2.32	0.58
1:G:2166:LEU:HD12	1:G:2206:THR:HG23	1.85	0.58
2:H:4:VAL:HG22	2:H:74:LEU:HG	1.85	0.58
1:A:692:TYR:CD1	1:A:711:LEU:HD21	2.38	0.58
1:C:1763:PRO:CD	1:C:1863:LEU:CD1	2.57	0.58
1:C:1856:ASP:N	1:C:1857:GLU:OE2	2.36	0.58
1:E:161:GLU:HG3	1:G:3984:ARG:HD3	1.84	0.58
1:E:2166:LEU:HD12	1:E:2206:THR:HG23	1.85	0.58
1:E:2465:UNK:O	1:E:2467:UNK:N	2.37	0.58
1:E:3670:GLU:HG2	1:E:3728:ILE:CB	2.33	0.58
1:E:3841:VAL:CG1	1:E:3842:LEU:H	2.16	0.58
1:E:3970:GLN:HE21	1:E:3970:GLN:CA	2.09	0.58
1:A:221:ARG:NE	1:A:258:SER:OG	2.36	0.58
1:A:384:MET:SD	1:G:167:ASP:OD1	2.61	0.58
1:A:755:ILE:HB	1:A:768:PHE:HB2	1.86	0.58
1:A:3963:ASN:O	1:A:3966:THR:OG1	2.15	0.58
1:A:4010:ILE:O	1:A:4011:GLU:C	2.42	0.58
1:C:468:LEU:HD21	1:C:472:ARG:HH21	1.69	0.58
1:C:2465:UNK:O	1:C:2467:UNK:N	2.37	0.58
1:C:3970:GLN:HE21	1:C:3970:GLN:CA	2.09	0.58
1:C:4180:ARG:HG2	1:C:4180:ARG:HH11	1.69	0.58
1:C:4843:LEU:HB2	1:E:4823:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4181:ILE:HD12	1:E:4991:PHE:CD2	2.38	0.58
1:G:221:ARG:NE	1:G:258:SER:OG	2.36	0.58
1:G:272:SER:HB2	1:G:334:MET:O	2.03	0.58
1:G:1018:ASN:CB	1:G:1021:LEU:CD2	2.58	0.58
1:G:2465:UNK:O	1:G:2467:UNK:N	2.37	0.58
1:G:2547:ALA:O	1:G:2550:LEU:HG	2.04	0.58
1:G:4003:LEU:HB2	1:G:4013:LEU:HD12	1.86	0.58
1:G:4722:ARG:O	1:G:4725:LEU:HG	2.02	0.58
1:A:284:HIS:CD2	1:A:287:THR:H	2.21	0.57
1:A:3794:VAL:O	1:A:3797:THR:OG1	2.18	0.57
1:A:3835:LEU:HD21	1:A:3880:PHE:CE2	2.39	0.57
1:A:4686:LEU:CD2	1:A:4687:TYR:CE1	2.85	0.57
1:C:2773:ASN:HD22	1:C:2775:TRP:HE1	1.51	0.57
1:C:4195:PHE:CE1	1:C:4197:ILE:HG12	2.30	0.57
2:D:4:VAL:HG22	2:D:74:LEU:HG	1.85	0.57
1:E:272:SER:HB2	1:E:334:MET:O	2.03	0.57
1:E:716:PHE:HE2	1:E:717:ASP:HB3	1.61	0.57
1:E:1856:ASP:N	1:E:1857:GLU:OE2	2.36	0.57
1:E:2351:ASN:O	1:E:2355:ARG:HG2	2.04	0.57
1:G:572:PRO:HB3	1:G:609:CYS:HB3	1.84	0.57
1:A:384:MET:CE	1:G:167:ASP:CG	2.73	0.57
1:A:1277:TRP:HB2	1:A:1562:ILE:HG22	1.86	0.57
1:A:4074:SER:HA	1:A:4077:PHE:HD2	1.69	0.57
1:A:4984:ASN:OD1	1:A:4987:ASN:ND2	2.38	0.57
1:C:273:HIS:CE1	1:C:334:MET:HE2	2.38	0.57
1:C:755:ILE:HB	1:C:768:PHE:HB2	1.86	0.57
1:C:2198:MET:HE1	1:C:2203:MET:HE1	1.84	0.57
1:C:3963:ASN:O	1:C:3966:THR:OG1	2.15	0.57
1:C:4984:ASN:OD1	1:C:4987:ASN:ND2	2.38	0.57
1:E:692:TYR:CD1	1:E:711:LEU:HD21	2.38	0.57
1:E:1708:ARG:CZ	1:E:1712:TYR:HE2	2.17	0.57
1:E:4003:LEU:HB2	1:E:4013:LEU:HD12	1.86	0.57
1:E:4074:SER:HA	1:E:4077:PHE:HD2	1.69	0.57
1:E:4687:TYR:OH	1:E:4702:ASP:CB	2.52	0.57
1:G:3835:LEU:HD21	1:G:3880:PHE:CE2	2.39	0.57
1:A:1544:PRO:O	1:A:1545:ASN:HB3	2.04	0.57
1:A:3936:TYR:O	1:A:3940:LYS:NZ	2.26	0.57
1:A:4903:ASP:OD1	1:A:4903:ASP:N	2.34	0.57
1:C:1761:GLY:O	1:C:1762:LEU:CB	2.51	0.57
1:C:3835:LEU:HD21	1:C:3880:PHE:CE2	2.39	0.57
1:E:603:LEU:HD13	1:E:625:LEU:HD11	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:839:LEU:HB3	1:E:1075:PHE:CE2	2.39	0.57
1:G:692:TYR:CD1	1:G:711:LEU:HD21	2.38	0.57
1:G:1544:PRO:O	1:G:1545:ASN:HB3	2.04	0.57
1:G:1705:GLY:C	1:G:1836:PHE:CE2	2.78	0.57
1:G:4010:ILE:O	1:G:4011:GLU:C	2.42	0.57
1:A:161:GLU:HG3	1:C:3984:ARG:CD	2.35	0.57
1:A:2547:ALA:O	1:A:2550:LEU:HG	2.04	0.57
1:A:2773:ASN:HD22	1:A:2775:TRP:HE1	1.51	0.57
1:A:3969:ILE:HG23	1:A:3977:GLN:HG2	1.85	0.57
1:C:472:ARG:NH1	1:C:532:GLY:O	2.32	0.57
1:C:1708:ARG:CZ	1:C:1712:TYR:HE2	2.17	0.57
1:C:1857:GLU:H	1:C:1857:GLU:CD	1.97	0.57
1:E:1705:GLY:C	1:E:1836:PHE:CE2	2.78	0.57
1:G:1579:MET:O	1:G:1582:SER:OG	2.15	0.57
1:G:2907:PRO:O	1:G:2910:THR:OG1	2.14	0.57
1:A:1705:GLY:C	1:A:1836:PHE:CE2	2.78	0.57
1:A:1838:PHE:O	1:A:1841:VAL:N	2.37	0.57
1:A:1972:ASN:O	1:A:1975:SER:OG	2.17	0.57
1:A:3669:PHE:HD1	1:A:3670:GLU:N	1.85	0.57
1:C:3936:TYR:O	1:C:3940:LYS:NZ	2.26	0.57
1:C:4181:ILE:HB	1:C:4988:TYR:CD1	2.40	0.57
1:C:4555:LEU:HD11	1:C:4656:LEU:HG	1.87	0.57
1:E:3905:THR:HG23	1:E:3907:THR:HG23	1.87	0.57
1:E:4686:LEU:CD2	1:E:4687:TYR:CE1	2.85	0.57
1:E:4938:ASP:OD2	1:G:4940:PHE:HB3	2.04	0.57
1:G:721:LEU:HD21	1:G:1474:VAL:CG1	2.35	0.57
1:G:2351:ASN:O	1:G:2355:ARG:HG2	2.04	0.57
1:A:1763:PRO:HG3	1:A:2094:LEU:HD22	1.85	0.57
1:A:1848:LEU:CG	1:A:1854:PHE:CZ	2.88	0.57
1:C:161:GLU:HG3	1:E:3984:ARG:CD	2.35	0.57
1:C:3905:THR:HG23	1:C:3907:THR:HG23	1.87	0.57
1:C:3969:ILE:HG23	1:C:3977:GLN:HG2	1.85	0.57
1:E:167:ASP:CG	1:G:384:MET:CE	2.73	0.57
1:E:1613:LEU:HB3	1:E:1616:GLU:HB3	1.87	0.57
1:E:2350:ALA:HB1	1:E:2436:CYS:HB2	1.87	0.57
1:E:4239:GLU:OE1	1:E:4675:LYS:HD2	2.05	0.57
1:G:603:LEU:HD13	1:G:625:LEU:HD11	1.85	0.57
1:A:721:LEU:HD21	1:A:1474:VAL:CG1	2.35	0.57
1:C:1838:PHE:O	1:C:1841:VAL:N	2.37	0.57
1:C:4010:ILE:O	1:C:4011:GLU:C	2.42	0.57
1:E:161:GLU:HG3	1:G:3984:ARG:CD	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1210:SER:HA	1:E:1213:PHE:CZ	2.40	0.57
1:E:1743:ARG:HB2	1:E:1963:GLU:CG	2.28	0.57
1:E:3841:VAL:HG12	1:E:3842:LEU:H	1.68	0.57
1:E:4145:VAL:O	1:E:4149:ASN:N	2.32	0.57
1:G:1708:ARG:CZ	1:G:1712:TYR:HE2	2.17	0.57
1:G:4180:ARG:HG2	1:G:4180:ARG:HH11	1.69	0.57
1:G:4984:ASN:OD1	1:G:4987:ASN:ND2	2.38	0.57
1:A:161:GLU:CD	1:A:164:ARG:NH2	2.58	0.57
1:A:3984:ARG:CD	1:G:161:GLU:HG3	2.35	0.57
1:A:4003:LEU:HB2	1:A:4013:LEU:HD12	1.86	0.57
1:A:4180:ARG:HG2	1:A:4180:ARG:HH11	1.69	0.57
1:C:1210:SER:HA	1:C:1213:PHE:CZ	2.40	0.57
1:C:3790:THR:HG22	1:C:3835:LEU:HG	1.86	0.57
1:E:3835:LEU:HD21	1:E:3880:PHE:HE2	1.70	0.57
1:E:4984:ASN:OD1	1:E:4987:ASN:ND2	2.38	0.57
1:G:559:GLY:O	1:G:563:VAL:HG23	2.05	0.57
1:G:1093:GLU:OE1	1:G:1201:HIS:ND1	2.35	0.57
1:G:4239:GLU:OE1	1:G:4675:LYS:HD2	2.05	0.57
1:A:468:LEU:HD21	1:A:472:ARG:HH21	1.69	0.57
1:A:1857:GLU:H	1:A:1857:GLU:CD	1.97	0.57
1:A:3790:THR:HG22	1:A:3835:LEU:HG	1.86	0.57
1:A:3837:GLN:HA	1:A:3837:GLN:HE21	1.70	0.57
1:A:4555:LEU:HD11	1:A:4656:LEU:HG	1.87	0.57
1:C:1848:LEU:CG	1:C:1854:PHE:CZ	2.88	0.57
1:C:3837:GLN:HA	1:C:3837:GLN:HE21	1.70	0.57
1:E:400:ALA:O	1:E:404:ILE:HG13	2.05	0.57
1:E:515:TRP:HH2	1:E:555:GLU:HG3	1.65	0.57
1:E:1148:VAL:HG11	1:E:1213:PHE:HD2	1.69	0.57
1:G:1277:TRP:HB2	1:G:1562:ILE:HG22	1.86	0.57
1:G:3835:LEU:HD21	1:G:3880:PHE:HE2	1.70	0.57
1:A:559:GLY:O	1:A:563:VAL:HG23	2.05	0.57
1:A:3905:THR:HG23	1:A:3907:THR:HG23	1.87	0.57
1:A:4938:ASP:OD2	1:C:4940:PHE:HB3	2.04	0.57
1:C:1705:GLY:C	1:C:1836:PHE:CE2	2.78	0.57
1:C:4003:LEU:HB2	1:C:4013:LEU:HD12	1.86	0.57
1:C:4044:MET:HA	1:C:4047:MET:HG2	1.87	0.57
1:C:4074:SER:HA	1:C:4077:PHE:HD2	1.69	0.57
1:E:1000:ARG:CG	1:E:1021:LEU:CD2	2.83	0.57
1:E:2547:ALA:O	1:E:2550:LEU:HG	2.04	0.57
1:G:839:LEU:HB3	1:G:1075:PHE:CE2	2.39	0.57
1:G:1652:GLU:O	1:G:1655:GLU:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1739:THR:O	1:G:1742:THR:OG1	2.17	0.57
1:G:4074:SER:HA	1:G:4077:PHE:HD2	1.69	0.57
1:A:595:ARG:HH22	1:A:1641:ILE:CG1	2.18	0.56
1:A:4181:ILE:HB	1:A:4988:TYR:CD1	2.40	0.56
1:A:4195:PHE:CE2	1:A:4987:ASN:HB3	2.40	0.56
1:A:4687:TYR:OH	1:A:4702:ASP:CB	2.52	0.56
1:C:400:ALA:O	1:C:404:ILE:HG13	2.05	0.56
1:C:1277:TRP:HB2	1:C:1562:ILE:HG22	1.86	0.56
1:E:1544:PRO:O	1:E:1545:ASN:HB3	2.04	0.56
1:E:2340:PHE:HB2	1:E:2435:ARG:HD3	1.87	0.56
1:G:554:LEU:HD11	1:G:593:HIS:HE1	0.75	0.56
1:G:750:LEU:O	1:G:751:SER:OG	2.23	0.56
1:G:4181:ILE:HB	1:G:4988:TYR:CD1	2.40	0.56
1:G:4957:LYS:HA	1:G:4964:GLY:HA2	1.87	0.56
1:A:125:ARG:CB	1:A:134:ASP:CG	2.53	0.56
1:A:125:ARG:HD2	1:A:134:ASP:OD2	2.02	0.56
1:A:167:ASP:CG	1:C:384:MET:CE	2.73	0.56
1:A:400:ALA:O	1:A:404:ILE:HG13	2.05	0.56
1:A:1148:VAL:HG11	1:A:1213:PHE:HD2	1.69	0.56
1:A:1210:SER:HA	1:A:1213:PHE:CZ	2.40	0.56
1:A:1561:VAL:HG13	1:A:1562:ILE:HG22	1.88	0.56
1:A:1708:ARG:CZ	1:A:1712:TYR:HE2	2.17	0.56
1:C:161:GLU:CD	1:C:164:ARG:NH2	2.58	0.56
1:C:595:ARG:HH22	1:C:1641:ILE:CG1	2.18	0.56
1:C:1000:ARG:CG	1:C:1021:LEU:CD2	2.83	0.56
1:C:1000:ARG:CG	1:C:1021:LEU:HD22	2.35	0.56
1:C:2212:VAL:HG21	1:C:2256:TYR:CE1	2.40	0.56
1:C:2547:ALA:O	1:C:2550:LEU:HG	2.04	0.56
1:C:4239:GLU:OE1	1:C:4675:LYS:HD2	2.05	0.56
1:E:161:GLU:OE1	1:E:164:ARG:NH2	2.38	0.56
1:E:3927:GLN:OE1	1:E:3988:ALA:HA	2.06	0.56
1:G:520:ASN:HB2	1:G:556:ALA:CB	2.35	0.56
1:G:647:ASN:HB2	1:G:822:ARG:H	1.70	0.56
1:G:1613:LEU:HB3	1:G:1616:GLU:HB3	1.87	0.56
1:G:1838:PHE:O	1:G:1841:VAL:N	2.37	0.56
1:G:1848:LEU:CG	1:G:1854:PHE:CZ	2.88	0.56
1:G:3837:GLN:HA	1:G:3837:GLN:HE21	1.70	0.56
1:A:554:LEU:HD11	1:A:593:HIS:HE1	0.75	0.56
1:A:1965:TYR:CE1	1:A:1969:LEU:CB	2.85	0.56
1:A:2351:ASN:O	1:A:2355:ARG:HG2	2.04	0.56
1:A:3835:LEU:HD21	1:A:3880:PHE:HE2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4239:GLU:OE1	1:A:4675:LYS:HD2	2.05	0.56
1:A:4712:PRO:HB2	1:A:4718:LYS:HD2	1.88	0.56
1:C:35:LEU:HD21	1:C:189:LEU:HD12	1.88	0.56
1:C:276:TRP:CD1	1:C:338:GLU:OE1	2.58	0.56
1:C:520:ASN:HB2	1:C:556:ALA:CB	2.35	0.56
1:C:750:LEU:O	1:C:751:SER:OG	2.23	0.56
1:C:1613:LEU:HB3	1:C:1616:GLU:HB3	1.87	0.56
1:C:1965:TYR:CE1	1:C:1969:LEU:CB	2.85	0.56
1:C:4712:PRO:HB2	1:C:4718:LYS:HD2	1.88	0.56
1:C:4957:LYS:HA	1:C:4964:GLY:HA2	1.87	0.56
1:E:61:ASP:OD2	1:E:402:ARG:NH2	2.38	0.56
1:E:161:GLU:CD	1:E:164:ARG:NH2	2.58	0.56
1:E:276:TRP:CD1	1:E:338:GLU:OE1	2.58	0.56
1:E:468:LEU:O	1:E:472:ARG:HG2	2.05	0.56
1:E:495:ASN:ND2	1:E:523:TYR:OH	2.39	0.56
1:E:637:LEU:HD23	1:E:1693:GLN:HA	1.87	0.56
1:E:755:ILE:HB	1:E:768:PHE:HB2	1.86	0.56
1:E:1000:ARG:CG	1:E:1021:LEU:HD22	2.35	0.56
1:E:1561:VAL:HG13	1:E:1562:ILE:HG22	1.88	0.56
1:E:1763:PRO:CD	1:E:1863:LEU:CD1	2.57	0.56
1:E:3794:VAL:O	1:E:3797:THR:OG1	2.18	0.56
1:E:3835:LEU:HD21	1:E:3880:PHE:CE2	2.39	0.56
1:G:1561:VAL:HG13	1:G:1562:ILE:HG22	1.88	0.56
1:G:2340:PHE:HB2	1:G:2435:ARG:HD3	1.87	0.56
1:A:22:LEU:HD12	1:A:37:LEU:HD23	1.88	0.56
1:A:49:LEU:CD1	1:A:189:LEU:CA	2.84	0.56
1:A:495:ASN:ND2	1:A:523:TYR:OH	2.39	0.56
1:A:520:ASN:HB2	1:A:556:ALA:CB	2.35	0.56
1:A:1000:ARG:CG	1:A:1021:LEU:CD2	2.83	0.56
1:A:2465:UNK:O	1:A:2467:UNK:N	2.37	0.56
1:C:167:ASP:CG	1:E:384:MET:CE	2.73	0.56
1:C:1148:VAL:HG11	1:C:1213:PHE:HD2	1.69	0.56
1:C:3835:LEU:HD21	1:C:3880:PHE:HE2	1.70	0.56
1:C:4030:LEU:HG	1:C:4040:ILE:HD11	1.88	0.56
1:C:4032:GLU:HB2	1:C:5006:GLN:CD	2.26	0.56
1:E:35:LEU:HD21	1:E:189:LEU:HD12	1.88	0.56
1:E:520:ASN:HB2	1:E:556:ALA:CB	2.35	0.56
1:E:1291:LEU:HB3	1:E:1550:PRO:HG2	1.88	0.56
1:E:1944:GLU:HA	1:E:2123:LEU:HD21	1.88	0.56
1:E:4555:LEU:HD11	1:E:4656:LEU:HG	1.87	0.56
1:E:4677:LEU:HD22	1:E:4711:PHE:CZ	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:49:LEU:CD1	1:G:189:LEU:CA	2.84	0.56
1:G:3790:THR:HG22	1:G:3835:LEU:HG	1.86	0.56
1:A:220:LEU:HD11	1:A:390:LEU:HD22	1.88	0.56
1:A:4032:GLU:HB2	1:A:5006:GLN:CD	2.26	0.56
1:A:4044:MET:HA	1:A:4047:MET:HG2	1.87	0.56
1:C:22:LEU:HD12	1:C:37:LEU:HD23	1.88	0.56
1:C:468:LEU:O	1:C:472:ARG:HG2	2.05	0.56
1:C:559:GLY:O	1:C:563:VAL:HG23	2.05	0.56
1:C:721:LEU:HD21	1:C:1474:VAL:CG1	2.35	0.56
1:E:559:GLY:O	1:E:563:VAL:HG23	2.05	0.56
1:E:4181:ILE:HB	1:E:4988:TYR:CD1	2.40	0.56
1:E:4712:PRO:HB2	1:E:4718:LYS:HD2	1.88	0.56
1:G:276:TRP:CD1	1:G:338:GLU:OE1	2.58	0.56
1:G:468:LEU:HD21	1:G:472:ARG:HH21	1.69	0.56
1:G:1000:ARG:CG	1:G:1021:LEU:CD2	2.83	0.56
1:C:646:PRO:HB2	1:C:793:LEU:CD1	2.26	0.56
1:C:721:LEU:HD23	1:C:767:VAL:HG11	1.79	0.56
1:C:2128:TYR:OH	1:C:3676:ASP:OD2	2.24	0.56
1:C:2453:ILE:HA	1:C:2456:ILE:HG22	1.87	0.56
1:E:527:ALA:O	1:E:531:ARG:HG3	2.06	0.56
1:E:721:LEU:HD21	1:E:1474:VAL:CG1	2.35	0.56
1:E:4032:GLU:HB2	1:E:5006:GLN:CD	2.26	0.56
1:G:161:GLU:CD	1:G:164:ARG:NH2	2.58	0.56
1:G:220:LEU:HD11	1:G:390:LEU:HD22	1.88	0.56
1:G:1018:ASN:HB3	1:G:1021:LEU:CG	2.36	0.56
1:G:1519:LEU:HG	1:G:1520:VAL:HG23	1.88	0.56
1:G:2196:ASN:OD1	1:G:2245:GLN:NE2	2.39	0.56
1:G:2822:THR:OG1	1:G:2938:THR:OG1	2.24	0.56
1:G:4712:PRO:HB2	1:G:4718:LYS:HD2	1.88	0.56
1:A:276:TRP:CD1	1:A:338:GLU:OE1	2.58	0.56
1:A:468:LEU:O	1:A:472:ARG:HG2	2.05	0.56
1:A:647:ASN:HB2	1:A:822:ARG:H	1.70	0.56
1:A:4940:PHE:HB3	1:G:4938:ASP:OD2	2.04	0.56
1:C:161:GLU:OE1	1:C:164:ARG:NH2	2.38	0.56
1:C:647:ASN:HB2	1:C:822:ARG:H	1.70	0.56
1:C:2350:ALA:HB1	1:C:2436:CYS:HB2	1.87	0.56
1:C:3844:LEU:HD11	1:C:3936:TYR:HB2	1.88	0.56
1:C:4687:TYR:OH	1:C:4702:ASP:CB	2.52	0.56
1:E:2128:TYR:OH	1:E:3676:ASP:OD2	2.24	0.56
1:E:4044:MET:HA	1:E:4047:MET:HG2	1.87	0.56
1:G:61:ASP:OD2	1:G:402:ARG:NH2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1210:SER:HA	1:G:1213:PHE:CZ	2.40	0.56
1:G:3885:PHE:HE1	1:G:3919:THR:HG1	1.54	0.56
1:G:3927:GLN:OE1	1:G:3988:ALA:HA	2.06	0.56
1:G:4555:LEU:HD11	1:G:4656:LEU:HG	1.87	0.56
1:G:4687:TYR:OH	1:G:4702:ASP:CB	2.52	0.56
1:A:527:ALA:O	1:A:531:ARG:HG3	2.06	0.56
1:A:1087:ARG:NH1	1:A:1221:GLU:O	2.36	0.56
1:A:2350:ALA:HB1	1:A:2436:CYS:HB2	1.87	0.56
1:A:3927:GLN:OE1	1:A:3988:ALA:HA	2.06	0.56
1:C:111:HIS:CD2	1:C:113:HIS:HB3	2.41	0.56
1:C:274:LEU:HD12	1:C:278:GLN:HE21	1.71	0.56
1:C:4938:ASP:OD2	1:E:4940:PHE:HB3	2.04	0.56
1:E:111:HIS:CD2	1:E:113:HIS:HB3	2.41	0.56
1:E:806:PRO:O	1:E:808:TYR:HD1	1.89	0.56
1:E:1848:LEU:CG	1:E:1854:PHE:CZ	2.88	0.56
1:E:4010:ILE:O	1:E:4011:GLU:C	2.42	0.56
1:G:400:ALA:O	1:G:404:ILE:HG13	2.05	0.56
1:G:411:TYR:HB2	1:G:486:LEU:HD21	1.87	0.56
1:G:468:LEU:O	1:G:472:ARG:HG2	2.05	0.56
1:A:161:GLU:OE1	1:A:164:ARG:NH2	2.38	0.56
1:A:274:LEU:HD12	1:A:278:GLN:HE21	1.71	0.56
1:A:465:GLN:NE2	1:A:3712:GLU:OE1	2.39	0.56
1:A:2212:VAL:HG21	1:A:2256:TYR:CE1	2.40	0.56
1:A:3674:ILE:HD11	1:A:3728:ILE:HG22	1.88	0.56
1:A:4677:LEU:HD22	1:A:4711:PHE:CZ	2.41	0.56
1:C:527:ALA:O	1:C:531:ARG:HG3	2.06	0.56
1:C:1561:VAL:HG13	1:C:1562:ILE:HG22	1.88	0.56
1:C:1937:LEU:HD12	1:C:2116:LEU:HB2	1.88	0.56
1:C:2196:ASN:OD1	1:C:2245:GLN:NE2	2.39	0.56
1:C:2351:ASN:O	1:C:2355:ARG:HG2	2.04	0.56
2:D:26:TYR:C	2:D:39:SER:OG	2.45	0.56
1:E:274:LEU:HD12	1:E:278:GLN:HE21	1.71	0.56
1:E:595:ARG:HH22	1:E:1641:ILE:CG1	2.18	0.56
1:G:465:GLN:NE2	1:G:3712:GLU:OE1	2.39	0.56
1:G:495:ASN:ND2	1:G:523:TYR:OH	2.39	0.56
1:G:3678:SER:HA	1:G:3773:ARG:HH12	1.71	0.56
1:A:411:TYR:HB2	1:A:486:LEU:HD21	1.87	0.56
1:A:1519:LEU:HG	1:A:1520:VAL:HG23	1.88	0.56
1:A:2340:PHE:HB2	1:A:2435:ARG:HD3	1.87	0.56
1:A:2453:ILE:HA	1:A:2456:ILE:HG22	1.87	0.56
1:A:3678:SER:HA	1:A:3773:ARG:HH12	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:595:ARG:NH2	1:C:1641:ILE:CD1	2.69	0.56
1:C:637:LEU:HD23	1:C:1693:GLN:HA	1.87	0.56
1:C:3927:GLN:OE1	1:C:3988:ALA:HA	2.06	0.56
1:E:468:LEU:HD21	1:E:472:ARG:HH21	1.69	0.56
1:E:683:ARG:CZ	1:E:722:TRP:CG	2.89	0.56
1:E:750:LEU:O	1:E:751:SER:OG	2.23	0.56
1:E:1277:TRP:HB2	1:E:1562:ILE:HG22	1.86	0.56
1:E:1705:GLY:CA	1:E:1836:PHE:HD2	2.19	0.56
1:E:1766:GLY:N	1:E:1856:ASP:OD1	2.39	0.56
1:E:3678:SER:HA	1:E:3773:ARG:HH12	1.71	0.56
1:E:3844:LEU:HD11	1:E:3936:TYR:HB2	1.88	0.56
1:E:3968:TYR:O	1:E:3976:ASN:ND2	2.39	0.56
1:G:527:ALA:O	1:G:531:ARG:HG3	2.06	0.56
1:G:644:ILE:HD12	1:G:783:PHE:CE1	2.41	0.56
1:G:3905:THR:HG23	1:G:3907:THR:HG23	1.87	0.56
1:G:4677:LEU:HD22	1:G:4711:PHE:CZ	2.41	0.56
1:A:442:ILE:HD11	1:A:514:SER:HB3	1.88	0.55
1:A:595:ARG:NH2	1:A:1641:ILE:CD1	2.69	0.55
1:A:669:ASP:HB2	1:A:788:LYS:HG3	1.88	0.55
1:A:683:ARG:CZ	1:A:722:TRP:CG	2.89	0.55
1:A:1000:ARG:CG	1:A:1021:LEU:HD22	2.35	0.55
1:A:2256:TYR:CD1	1:A:2260:ASN:ND2	2.63	0.55
1:A:3968:TYR:O	1:A:3976:ASN:ND2	2.39	0.55
1:C:61:ASP:OD2	1:C:402:ARG:NH2	2.38	0.55
1:C:671:VAL:HG22	1:C:787:VAL:HG13	1.88	0.55
1:C:1544:PRO:O	1:C:1545:ASN:HB3	2.04	0.55
1:C:3674:ILE:HD11	1:C:3728:ILE:HG22	1.88	0.55
1:C:4677:LEU:HD22	1:C:4711:PHE:CZ	2.41	0.55
1:E:634:GLN:HB3	1:E:1640:HIS:CE1	2.41	0.55
1:E:2212:VAL:HG21	1:E:2256:TYR:CE1	2.40	0.55
1:G:22:LEU:HD12	1:G:37:LEU:HD23	1.88	0.55
1:G:161:GLU:OE1	1:G:164:ARG:NH2	2.38	0.55
1:G:1291:LEU:HB3	1:G:1550:PRO:HG2	1.88	0.55
1:A:35:LEU:HD21	1:A:189:LEU:HD12	1.88	0.55
1:A:1613:LEU:HB3	1:A:1616:GLU:HB3	1.87	0.55
1:A:3906:GLN:HE21	1:A:3909:ASN:ND2	2.05	0.55
1:A:4580:TYR:CD2	1:A:4807:PHE:CZ	2.95	0.55
1:C:495:ASN:ND2	1:C:523:TYR:OH	2.39	0.55
1:C:2882:TYR:HB2	1:C:2919:ASP:OD2	2.06	0.55
1:E:595:ARG:NH2	1:E:1641:ILE:CD1	2.69	0.55
1:E:1293:LEU:HD11	1:E:1598:GLN:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3790:THR:HG22	1:E:3835:LEU:HG	1.86	0.55
1:G:595:ARG:HH22	1:G:1641:ILE:CG1	2.18	0.55
1:G:1000:ARG:CG	1:G:1021:LEU:HD22	2.35	0.55
1:G:2929:PHE:O	1:G:2933:ASN:ND2	2.34	0.55
1:G:3906:GLN:HE21	1:G:3909:ASN:ND2	2.05	0.55
1:A:111:HIS:CD2	1:A:113:HIS:HB3	2.41	0.55
1:A:2134:LEU:O	1:A:2138:LEU:HG	2.06	0.55
1:A:2196:ASN:OD1	1:A:2245:GLN:NE2	2.39	0.55
1:A:3970:GLN:HE22	1:A:4029:SER:HB2	1.71	0.55
1:C:889:GLN:HB3	1:C:891:TRP:HD1	1.71	0.55
1:C:4195:PHE:CE2	1:C:4987:ASN:HB3	2.40	0.55
1:E:644:ILE:HD12	1:E:783:PHE:CE1	2.41	0.55
1:E:680:THR:CG2	1:E:784:SER:O	2.55	0.55
1:E:889:GLN:HB3	1:E:891:TRP:HD1	1.71	0.55
1:E:2256:TYR:CD1	1:E:2260:ASN:ND2	2.63	0.55
1:E:4580:TYR:CD2	1:E:4807:PHE:CZ	2.95	0.55
1:G:274:LEU:HD12	1:G:278:GLN:HE21	1.71	0.55
1:G:637:LEU:HD23	1:G:1693:GLN:HA	1.87	0.55
1:G:2134:LEU:O	1:G:2138:LEU:HG	2.06	0.55
1:G:2212:VAL:HG21	1:G:2256:TYR:CE1	2.40	0.55
1:G:4030:LEU:HG	1:G:4040:ILE:HD11	1.88	0.55
1:G:4580:TYR:CD2	1:G:4807:PHE:CZ	2.95	0.55
1:A:806:PRO:O	1:A:808:TYR:HD1	1.89	0.55
1:A:2128:TYR:OH	1:A:3676:ASP:OD2	2.24	0.55
1:C:125:ARG:HD2	1:C:134:ASP:OD2	2.02	0.55
1:C:411:TYR:HB2	1:C:486:LEU:HD21	1.87	0.55
1:C:644:ILE:HD12	1:C:783:PHE:CE1	2.41	0.55
1:C:680:THR:CG2	1:C:784:SER:O	2.55	0.55
1:C:683:ARG:CZ	1:C:722:TRP:CG	2.89	0.55
1:C:1087:ARG:NH1	1:C:1221:GLU:O	2.36	0.55
1:C:1122:TYR:CZ	1:C:1133:HIS:CE1	2.88	0.55
1:C:1766:GLY:N	1:C:1856:ASP:OD1	2.39	0.55
1:E:22:LEU:HD12	1:E:37:LEU:HD23	1.88	0.55
1:E:647:ASN:HB2	1:E:822:ARG:H	1.70	0.55
1:E:1000:ARG:HA	1:E:1003:GLN:HB3	1.88	0.55
1:E:2134:LEU:O	1:E:2138:LEU:HG	2.06	0.55
1:E:4710:SER:O	1:E:4713:SER:OG	2.16	0.55
2:F:26:TYR:C	2:F:39:SER:OG	2.45	0.55
1:G:1705:GLY:CA	1:G:1836:PHE:HD2	2.19	0.55
1:G:2453:ILE:HA	1:G:2456:ILE:HG22	1.87	0.55
1:A:671:VAL:HG22	1:A:787:VAL:HG13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4195:PHE:CE1	1:A:4197:ILE:HG12	2.30	0.55
1:C:465:GLN:NE2	1:C:3712:GLU:OE1	2.39	0.55
1:C:722:TRP:NE1	1:C:727:ALA:HB2	2.22	0.55
1:C:1743:ARG:HD2	1:C:1963:GLU:HG3	1.89	0.55
1:C:2340:PHE:HB2	1:C:2435:ARG:HD3	1.87	0.55
1:E:49:LEU:CD1	1:E:189:LEU:CA	2.84	0.55
1:E:411:TYR:HB2	1:E:486:LEU:HD21	1.87	0.55
1:E:3674:ILE:HD11	1:E:3728:ILE:HG22	1.88	0.55
1:E:3840:SER:O	1:E:3841:VAL:HG23	2.07	0.55
1:E:4957:LYS:HA	1:E:4964:GLY:HA2	1.87	0.55
1:G:111:HIS:CD2	1:G:113:HIS:HB3	2.41	0.55
1:G:1944:GLU:HA	1:G:2123:LEU:HD21	1.88	0.55
1:G:4044:MET:HA	1:G:4047:MET:HG2	1.87	0.55
1:G:4181:ILE:HD12	1:G:4991:PHE:CD2	2.38	0.55
1:A:680:THR:CG2	1:A:784:SER:O	2.55	0.55
1:C:1433:TYR:CD1	1:C:1583:GLU:HB2	2.42	0.55
1:C:1944:GLU:HA	1:C:2123:LEU:HD21	1.88	0.55
1:C:3670:GLU:CG	1:C:3728:ILE:HG12	2.37	0.55
1:C:3840:SER:O	1:C:3841:VAL:HG23	2.07	0.55
1:E:45:ARG:NH2	1:E:116:MET:HE1	2.17	0.55
1:E:1018:ASN:HB3	1:E:1021:LEU:CG	2.36	0.55
1:E:2196:ASN:OD1	1:E:2245:GLN:NE2	2.39	0.55
1:E:2453:ILE:HA	1:E:2456:ILE:HG22	1.87	0.55
1:G:595:ARG:NH2	1:G:1641:ILE:CD1	2.69	0.55
1:G:683:ARG:CZ	1:G:722:TRP:CG	2.89	0.55
1:G:1433:TYR:CD1	1:G:1583:GLU:HB2	2.42	0.55
1:G:3840:SER:O	1:G:3841:VAL:HG23	2.07	0.55
1:A:644:ILE:HD12	1:A:783:PHE:CE1	2.41	0.55
1:A:3841:VAL:HG12	1:A:3842:LEU:H	1.68	0.55
1:A:4030:LEU:HG	1:A:4040:ILE:HD11	1.88	0.55
2:B:26:TYR:C	2:B:39:SER:OG	2.45	0.55
1:C:683:ARG:HB2	1:C:782:SER:OG	2.07	0.55
1:C:1825:HIS:ND1	1:C:1825:HIS:O	2.40	0.55
1:C:1862:ILE:O	1:C:1865:MET:HB3	2.07	0.55
1:C:3968:TYR:O	1:C:3976:ASN:ND2	2.39	0.55
1:E:1519:LEU:HG	1:E:1520:VAL:HG23	1.88	0.55
1:E:3906:GLN:HE21	1:E:3909:ASN:ND2	2.05	0.55
1:E:4030:LEU:HG	1:E:4040:ILE:HD11	1.88	0.55
1:G:2350:ALA:HB1	1:G:2436:CYS:HB2	1.87	0.55
1:A:1743:ARG:HD2	1:A:1963:GLU:HG3	1.89	0.55
1:A:1825:HIS:ND1	1:A:1825:HIS:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2230:THR:O	1:A:2234:ARG:HG2	2.07	0.55
1:C:49:LEU:CD1	1:C:189:LEU:CA	2.84	0.55
1:C:546:TRP:O	1:C:550:LYS:HG2	2.07	0.55
1:C:1291:LEU:HB3	1:C:1550:PRO:HG2	1.88	0.55
1:C:4181:ILE:HD12	1:C:4991:PHE:CD2	2.38	0.55
1:C:4580:TYR:CD2	1:C:4807:PHE:CZ	2.95	0.55
1:E:1076:ARG:O	1:E:1237:TRP:N	2.40	0.55
1:E:1479:GLU:OE1	1:E:1480:GLN:HG3	2.07	0.55
1:E:4195:PHE:CE1	1:E:4197:ILE:HG12	2.30	0.55
1:G:634:GLN:HB3	1:G:1640:HIS:CE1	2.41	0.55
1:G:806:PRO:O	1:G:808:TYR:HD1	1.89	0.55
1:G:3844:LEU:HD11	1:G:3936:TYR:HB2	1.88	0.55
1:G:4849:TYR:HA	1:G:4852:THR:HG22	1.89	0.55
1:A:1000:ARG:HA	1:A:1003:GLN:HB3	1.88	0.55
1:A:2551:ASN:O	1:A:2554:LEU:HG	2.07	0.55
1:A:3670:GLU:CG	1:A:3728:ILE:HG12	2.37	0.55
1:A:4904:PRO:HG2	1:A:4910:GLU:CG	2.28	0.55
1:A:4957:LYS:HA	1:A:4964:GLY:HA2	1.87	0.55
1:C:634:GLN:HB3	1:C:1640:HIS:CE1	2.41	0.55
1:C:3678:SER:HA	1:C:3773:ARG:HH12	1.71	0.55
1:C:3885:PHE:HE1	1:C:3919:THR:HG1	1.55	0.55
1:C:3906:GLN:HE21	1:C:3909:ASN:ND2	2.05	0.55
1:E:442:ILE:HD11	1:E:514:SER:HB3	1.88	0.55
1:E:722:TRP:NE1	1:E:727:ALA:HB2	2.22	0.55
1:E:1433:TYR:CD1	1:E:1583:GLU:HB2	2.42	0.55
1:E:2551:ASN:O	1:E:2554:LEU:HG	2.07	0.55
1:G:35:LEU:HD21	1:G:189:LEU:HD12	1.88	0.55
1:G:680:THR:CG2	1:G:784:SER:O	2.55	0.55
1:G:1766:GLY:N	1:G:1856:ASP:OD1	2.39	0.55
1:G:3674:ILE:HD11	1:G:3728:ILE:HG22	1.88	0.55
2:H:26:TYR:C	2:H:39:SER:OG	2.45	0.55
1:A:546:TRP:O	1:A:550:LYS:HG2	2.07	0.55
1:A:663:TYR:HB3	1:A:808:TYR:CD2	2.42	0.55
1:A:1743:ARG:CB	1:A:1963:GLU:HG2	2.32	0.55
1:A:3701:LEU:HD11	1:A:3725:TYR:CE1	2.42	0.55
1:A:3840:SER:O	1:A:3841:VAL:HG23	2.07	0.55
1:A:3844:LEU:HD11	1:A:3936:TYR:HB2	1.88	0.55
1:C:220:LEU:HD11	1:C:390:LEU:HD22	1.88	0.55
1:C:681:HIS:CA	1:C:716:PHE:HD1	2.06	0.55
1:C:1078:GLU:OE1	1:C:1235:THR:OG1	2.25	0.55
1:C:1479:GLU:OE1	1:C:1480:GLN:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:220:LEU:HD11	1:E:390:LEU:HD22	1.88	0.55
1:E:663:TYR:HB3	1:E:808:TYR:CD2	2.42	0.55
1:E:1862:ILE:O	1:E:1865:MET:HB3	2.07	0.55
1:G:722:TRP:NE1	1:G:727:ALA:HB2	2.22	0.55
1:G:1132:TRP:NE1	1:G:1136:SER:CA	2.70	0.55
1:G:1743:ARG:HD2	1:G:1963:GLU:HG3	1.89	0.55
1:G:2551:ASN:O	1:G:2554:LEU:HG	2.07	0.55
1:G:3963:ASN:O	1:G:3966:THR:OG1	2.15	0.55
1:A:637:LEU:HD23	1:A:1693:GLN:HA	1.87	0.54
1:A:889:GLN:HB3	1:A:891:TRP:HD1	1.71	0.54
1:A:1291:LEU:HB3	1:A:1550:PRO:HG2	1.88	0.54
1:A:1433:TYR:CD1	1:A:1583:GLU:HB2	2.42	0.54
1:A:1766:GLY:N	1:A:1856:ASP:OD1	2.39	0.54
1:A:1944:GLU:HA	1:A:2123:LEU:HD21	1.88	0.54
1:A:3897:ASN:O	1:A:3901:ASN:ND2	2.40	0.54
1:A:4688:ILE:HG22	1:A:4732:PHE:CE2	2.42	0.54
1:A:4849:TYR:HA	1:A:4852:THR:HG22	1.89	0.54
1:C:1000:ARG:HA	1:C:1003:GLN:HB3	1.88	0.54
1:C:1519:LEU:HG	1:C:1520:VAL:HG23	1.88	0.54
1:C:1639:LEU:HD21	1:C:1653:LEU:HD13	1.90	0.54
1:C:2230:THR:O	1:C:2234:ARG:HG2	2.07	0.54
1:C:3970:GLN:HE22	1:C:4029:SER:HB2	1.71	0.54
1:E:671:VAL:HG22	1:E:787:VAL:HG13	1.88	0.54
1:E:1089:TYR:OH	1:E:1213:PHE:HB2	2.07	0.54
1:E:4195:PHE:CE2	1:E:4987:ASN:HB3	2.40	0.54
1:E:4688:ILE:HG22	1:E:4732:PHE:CE2	2.42	0.54
1:G:42:PHE:HE2	1:G:399:GLN:HE21	1.55	0.54
1:G:716:PHE:HE2	1:G:717:ASP:HB3	1.61	0.54
1:G:1000:ARG:HA	1:G:1003:GLN:HB3	1.88	0.54
1:G:3669:PHE:CZ	1:G:3670:GLU:OE1	2.61	0.54
1:A:634:GLN:HB3	1:A:1640:HIS:CE1	2.41	0.54
1:A:828:GLU:HG3	1:A:830:ARG:H	1.72	0.54
1:A:1089:TYR:OH	1:A:1213:PHE:HB2	2.07	0.54
1:A:1639:LEU:HD21	1:A:1653:LEU:HD13	1.90	0.54
1:C:442:ILE:HD11	1:C:514:SER:HB3	1.88	0.54
1:C:828:GLU:HG3	1:C:830:ARG:H	1.72	0.54
1:C:4910:GLU:O	1:C:4914:VAL:HG23	2.08	0.54
1:E:554:LEU:HD11	1:E:593:HIS:HE1	0.75	0.54
1:E:1825:HIS:ND1	1:E:1825:HIS:O	2.40	0.54
1:E:4708:THR:HG22	1:E:4710:SER:N	2.22	0.54
1:G:2128:TYR:OH	1:G:3676:ASP:OD2	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3897:ASN:O	1:G:3901:ASN:ND2	2.40	0.54
1:G:4032:GLU:HB2	1:G:5006:GLN:CD	2.26	0.54
1:G:4910:GLU:O	1:G:4914:VAL:HG23	2.08	0.54
1:A:61:ASP:OD2	1:A:402:ARG:NH2	2.38	0.54
1:A:1937:LEU:HD12	1:A:2116:LEU:HB2	1.88	0.54
1:C:806:PRO:O	1:C:808:TYR:HD1	1.89	0.54
1:C:1737:PRO:HG2	1:C:1742:THR:HG21	1.89	0.54
1:E:465:GLN:NE2	1:E:3712:GLU:OE1	2.39	0.54
1:E:3951:PHE:CD2	1:E:4012:LEU:HD21	2.43	0.54
1:E:4732:PHE:HE1	1:E:4736:ARG:HD2	1.73	0.54
1:E:4849:TYR:HA	1:E:4852:THR:HG22	1.89	0.54
1:G:889:GLN:HB3	1:G:891:TRP:HD1	1.71	0.54
1:G:1293:LEU:HD11	1:G:1598:GLN:HG2	1.89	0.54
1:G:3968:TYR:O	1:G:3976:ASN:ND2	2.39	0.54
1:A:189:LEU:HD23	1:A:189:LEU:N	2.23	0.54
1:A:1815:LEU:HD11	1:A:1845:VAL:HG21	1.89	0.54
1:A:3969:ILE:HD13	1:A:4030:LEU:HD13	1.90	0.54
1:E:16:THR:HB	1:E:98:HIS:HA	1.90	0.54
1:E:232:THR:HG21	1:E:252:VAL:HG21	1.89	0.54
1:E:1743:ARG:HD2	1:E:1963:GLU:HG3	1.89	0.54
1:E:1937:LEU:HD12	1:E:2116:LEU:HB2	1.88	0.54
1:E:1965:TYR:CE1	1:E:1969:LEU:CB	2.85	0.54
1:G:210:GLU:HG2	1:G:273:HIS:HE1	1.73	0.54
1:G:596:ASN:HB2	1:G:599:VAL:CG2	2.38	0.54
1:G:669:ASP:HB2	1:G:788:LYS:HG3	1.88	0.54
1:G:3970:GLN:HE22	1:G:4029:SER:HB2	1.71	0.54
1:G:4235:VAL:HG21	1:G:5019:TRP:CZ3	2.43	0.54
1:A:42:PHE:HE2	1:A:399:GLN:HE21	1.55	0.54
1:A:827:LYS:O	1:A:828:GLU:HB3	2.08	0.54
1:A:1293:LEU:HD11	1:A:1598:GLN:HG2	1.89	0.54
1:A:1862:ILE:O	1:A:1865:MET:HB3	2.07	0.54
1:A:4235:VAL:HG21	1:A:5019:TRP:CZ3	2.43	0.54
1:C:16:THR:HB	1:C:98:HIS:HA	1.90	0.54
1:C:554:LEU:HD11	1:C:593:HIS:HE1	0.75	0.54
1:C:596:ASN:HB2	1:C:599:VAL:CG2	2.38	0.54
1:C:904:HIS:CG	1:C:905:PRO:HD2	2.43	0.54
1:C:1089:TYR:OH	1:C:1213:PHE:HB2	2.07	0.54
1:C:1815:LEU:HD11	1:C:1845:VAL:HG21	1.89	0.54
1:C:2149:VAL:O	1:C:2152:THR:OG1	2.19	0.54
1:C:3701:LEU:HD11	1:C:3725:TYR:CE1	2.42	0.54
1:E:683:ARG:HB2	1:E:782:SER:OG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1211:LEU:HD23	1:E:1212:ARG:HG3	1.90	0.54
1:E:1737:PRO:HG2	1:E:1742:THR:HG21	1.89	0.54
1:E:3669:PHE:CZ	1:E:3670:GLU:OE1	2.61	0.54
1:E:3670:GLU:CG	1:E:3728:ILE:HG12	2.37	0.54
1:G:442:ILE:HD11	1:G:514:SER:HB3	1.88	0.54
1:G:683:ARG:HB2	1:G:782:SER:OG	2.07	0.54
1:G:2882:TYR:HB2	1:G:2919:ASP:OD2	2.06	0.54
1:G:3951:PHE:CD2	1:G:4012:LEU:HD21	2.43	0.54
1:G:3970:GLN:HE21	1:G:3970:GLN:CA	2.09	0.54
1:G:4705:VAL:HG22	1:G:4711:PHE:HD1	1.73	0.54
1:A:683:ARG:HB2	1:A:782:SER:OG	2.07	0.54
1:A:1076:ARG:O	1:A:1237:TRP:N	2.40	0.54
1:A:1132:TRP:NE1	1:A:1136:SER:CA	2.70	0.54
1:A:3970:GLN:HE21	1:A:3970:GLN:CA	2.09	0.54
1:C:1132:TRP:NE1	1:C:1136:SER:CA	2.70	0.54
1:C:4688:ILE:HG22	1:C:4732:PHE:CE2	2.42	0.54
1:E:827:LYS:O	1:E:828:GLU:HB3	2.08	0.54
1:E:904:HIS:CG	1:E:905:PRO:HD2	2.43	0.54
1:E:4083:ASP:O	1:E:4084:PRO:CB	2.56	0.54
1:E:4910:GLU:O	1:E:4914:VAL:HG23	2.08	0.54
1:G:904:HIS:CG	1:G:905:PRO:HD2	2.43	0.54
1:G:1825:HIS:ND1	1:G:1825:HIS:O	2.40	0.54
1:G:1862:ILE:O	1:G:1865:MET:HB3	2.07	0.54
1:G:3670:GLU:CG	1:G:3728:ILE:HG12	2.37	0.54
1:G:3701:LEU:HD11	1:G:3725:TYR:CE1	2.42	0.54
1:G:3936:TYR:O	1:G:3940:LYS:NZ	2.26	0.54
1:A:596:ASN:HB2	1:A:599:VAL:CG2	2.38	0.54
1:A:1211:LEU:HD23	1:A:1212:ARG:HG3	1.90	0.54
1:A:1712:TYR:O	1:A:1716:ILE:HG12	2.08	0.54
1:C:189:LEU:N	1:C:189:LEU:HD23	2.23	0.54
1:C:232:THR:HG21	1:C:252:VAL:HG21	1.89	0.54
1:C:716:PHE:HE2	1:C:717:ASP:HB3	1.61	0.54
1:C:1205:GLY:HA3	1:C:1227:ALA:HB3	1.90	0.54
1:E:113:HIS:CE1	1:E:402:ARG:HB3	2.43	0.54
1:E:600:LEU:CD2	1:E:1666:THR:HA	2.30	0.54
1:E:691:GLY:HA3	1:E:710:ASP:OD2	2.08	0.54
1:E:2145:SER:HB3	1:E:3647:HIS:CD2	2.43	0.54
1:E:2882:TYR:HB2	1:E:2919:ASP:OD2	2.06	0.54
1:E:3669:PHE:HD1	1:E:3670:GLU:N	1.85	0.54
1:E:3701:LEU:HD11	1:E:3725:TYR:CE1	2.42	0.54
1:E:4938:ASP:OD1	1:G:4944:ARG:NE	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:646:PRO:HB2	1:G:793:LEU:CD1	2.26	0.54
1:G:1076:ARG:O	1:G:1237:TRP:N	2.40	0.54
1:G:1089:TYR:OH	1:G:1213:PHE:HB2	2.07	0.54
1:A:16:THR:HB	1:A:98:HIS:HA	1.90	0.54
1:A:3951:PHE:CD2	1:A:4012:LEU:HD21	2.43	0.54
1:C:283:ARG:HG2	1:C:284:HIS:O	2.08	0.54
1:C:663:TYR:HB3	1:C:808:TYR:CD2	2.42	0.54
1:C:1076:ARG:O	1:C:1237:TRP:N	2.40	0.54
1:C:1127:HIS:CD2	1:C:1128:ARG:HG3	2.43	0.54
1:C:4705:VAL:HG22	1:C:4711:PHE:HD1	1.73	0.54
1:E:669:ASP:HB2	1:E:788:LYS:HG3	1.88	0.54
1:E:828:GLU:HG3	1:E:830:ARG:H	1.72	0.54
1:G:16:THR:HB	1:G:98:HIS:HA	1.90	0.54
1:G:546:TRP:O	1:G:550:LYS:HG2	2.07	0.54
1:G:591:ASP:O	1:G:1598:GLN:NE2	2.41	0.54
1:G:598:LYS:H	1:G:598:LYS:CD	2.00	0.54
1:G:663:TYR:HB3	1:G:808:TYR:CD2	2.42	0.54
1:G:671:VAL:HG22	1:G:787:VAL:HG13	1.88	0.54
1:G:1937:LEU:HD12	1:G:2116:LEU:HB2	1.88	0.54
1:G:2230:THR:O	1:G:2234:ARG:HG2	2.07	0.54
1:G:3969:ILE:HD13	1:G:4030:LEU:HD13	1.90	0.54
1:G:4888:TYR:O	1:G:4892:ARG:NH2	2.35	0.54
1:A:3669:PHE:CZ	1:A:3670:GLU:OE1	2.61	0.54
1:C:113:HIS:CE1	1:C:402:ARG:HB3	2.43	0.54
1:C:691:GLY:HA3	1:C:710:ASP:OD2	2.08	0.54
1:C:1018:ASN:HB3	1:C:1021:LEU:CG	2.36	0.54
1:C:1705:GLY:CA	1:C:1836:PHE:HD2	2.19	0.54
1:C:1712:TYR:O	1:C:1716:ILE:HG12	2.08	0.54
1:C:2134:LEU:O	1:C:2138:LEU:HG	2.06	0.54
1:E:596:ASN:HB2	1:E:599:VAL:CG2	2.38	0.54
1:E:1132:TRP:NE1	1:E:1136:SER:CA	2.70	0.54
1:E:2230:THR:O	1:E:2234:ARG:HG2	2.07	0.54
1:E:3885:PHE:HE1	1:E:3919:THR:HG1	1.56	0.54
1:G:1111:PRO:HB2	1:G:1607:ARG:HB3	1.90	0.54
1:G:1257:VAL:HA	1:G:1277:TRP:NE1	2.23	0.54
1:G:4732:PHE:HE1	1:G:4736:ARG:HD2	1.73	0.54
1:A:70:GLU:O	1:A:71:GLN:CG	2.40	0.54
1:A:113:HIS:CE1	1:A:402:ARG:HB3	2.43	0.54
1:A:283:ARG:HG2	1:A:284:HIS:O	2.08	0.54
1:A:1127:HIS:CD2	1:A:1128:ARG:HG3	2.43	0.54
1:A:1255:TYR:CZ	1:A:1287:LEU:HD11	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2822:THR:OG1	1:A:2938:THR:OG1	2.24	0.54
1:A:4181:ILE:HD12	1:A:4991:PHE:CD2	2.38	0.54
1:A:4708:THR:HG22	1:A:4710:SER:N	2.22	0.54
1:C:3951:PHE:CD2	1:C:4012:LEU:HD21	2.43	0.54
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.08	0.54
1:E:546:TRP:O	1:E:550:LYS:HG2	2.07	0.54
1:E:626:LEU:HB3	1:E:1688:HIS:CE1	2.43	0.54
1:E:1257:VAL:HA	1:E:1277:TRP:NE1	2.23	0.54
1:E:3897:ASN:O	1:E:3901:ASN:ND2	2.40	0.54
2:F:16:PRO:HG3	2:F:106:LEU:HD21	1.90	0.54
1:G:1712:TYR:O	1:G:1716:ILE:HG12	2.08	0.54
1:G:1743:ARG:CB	1:G:1963:GLU:HG2	2.32	0.54
1:G:4083:ASP:O	1:G:4084:PRO:CB	2.56	0.54
1:G:4962:GLY:O	1:G:4964:GLY:N	2.41	0.54
1:A:591:ASP:O	1:A:1598:GLN:NE2	2.41	0.53
1:A:1737:PRO:HG2	1:A:1742:THR:HG21	1.89	0.53
1:C:591:ASP:O	1:C:1598:GLN:NE2	2.41	0.53
1:C:827:LYS:O	1:C:828:GLU:HB3	2.08	0.53
1:C:915:GLU:HA	1:C:918:ARG:HB2	1.90	0.53
1:C:2112:GLN:O	1:C:2113:SER:OG	2.21	0.53
1:C:3891:LEU:HB3	1:C:3899:PHE:CE2	2.44	0.53
1:C:4849:TYR:HA	1:C:4852:THR:HG22	1.89	0.53
2:D:27:THR:HA	2:D:38:SER:HA	1.90	0.53
1:E:379:HIS:NE2	1:E:381:GLU:OE1	2.41	0.53
1:E:1639:LEU:HD21	1:E:1653:LEU:HD13	1.90	0.53
1:E:4849:TYR:O	1:E:4853:VAL:HG23	2.08	0.53
1:G:113:HIS:CE1	1:G:402:ARG:HB3	2.43	0.53
1:G:189:LEU:N	1:G:189:LEU:HD23	2.23	0.53
1:G:2126:ARG:HG3	1:G:2133:GLU:OE1	2.08	0.53
1:G:4195:PHE:CE2	1:G:4987:ASN:HB3	2.40	0.53
1:G:4688:ILE:HG22	1:G:4732:PHE:CE2	2.42	0.53
1:G:4708:THR:HG22	1:G:4710:SER:N	2.22	0.53
1:G:4849:TYR:O	1:G:4853:VAL:HG23	2.08	0.53
2:H:27:THR:HA	2:H:38:SER:HA	1.90	0.53
1:A:210:GLU:HG2	1:A:273:HIS:HE1	1.73	0.53
1:A:722:TRP:NE1	1:A:727:ALA:HB2	2.22	0.53
1:A:904:HIS:CG	1:A:905:PRO:HD2	2.43	0.53
1:A:1257:VAL:HA	1:A:1277:TRP:NE1	2.23	0.53
2:B:27:THR:HA	2:B:38:SER:HA	1.90	0.53
1:C:3669:PHE:CZ	1:C:3670:GLU:OE1	2.61	0.53
1:E:425:PRO:HA	1:E:506:TYR:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1127:HIS:CD2	1:E:1128:ARG:HG3	2.43	0.53
1:G:232:THR:HG21	1:G:252:VAL:HG21	1.89	0.53
1:G:379:HIS:NE2	1:G:381:GLU:OE1	2.41	0.53
1:G:533:ASN:HB2	1:G:536:ASN:ND2	2.23	0.53
1:G:1255:TYR:CZ	1:G:1287:LEU:HD11	2.43	0.53
1:G:1448:VAL:HG11	1:G:1554:VAL:HG22	1.85	0.53
1:G:1479:GLU:OE1	1:G:1480:GLN:HG3	2.07	0.53
1:G:1639:LEU:HD21	1:G:1653:LEU:HD13	1.90	0.53
1:G:1737:PRO:HG2	1:G:1742:THR:HG21	1.89	0.53
1:G:1815:LEU:HD11	1:G:1845:VAL:HG21	1.89	0.53
1:G:1965:TYR:CE1	1:G:1969:LEU:CB	2.85	0.53
1:G:2902:HIS:CG	1:G:2903:PRO:HD2	2.44	0.53
1:A:554:LEU:HD21	1:A:1597:VAL:CG2	2.33	0.53
1:A:1479:GLU:OE1	1:A:1480:GLN:HG3	2.07	0.53
1:A:1705:GLY:CA	1:A:1836:PHE:HD2	2.19	0.53
1:A:2902:HIS:CG	1:A:2903:PRO:HD2	2.44	0.53
1:A:3891:LEU:HB3	1:A:3899:PHE:CE2	2.44	0.53
1:A:4083:ASP:O	1:A:4084:PRO:CB	2.56	0.53
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.08	0.53
1:A:4910:GLU:O	1:A:4914:VAL:HG23	2.08	0.53
1:C:379:HIS:NE2	1:C:381:GLU:OE1	2.41	0.53
1:C:1293:LEU:HD11	1:C:1598:GLN:HG2	1.89	0.53
1:C:1972:ASN:O	1:C:1975:SER:OG	2.17	0.53
1:C:3969:ILE:HD13	1:C:4030:LEU:HD13	1.90	0.53
1:E:273:HIS:CE1	1:E:334:MET:HE2	2.41	0.53
1:E:565:TYR:HB2	1:E:602:VAL:HG22	1.91	0.53
1:E:1255:TYR:CZ	1:E:1287:LEU:HD11	2.43	0.53
1:G:1211:LEU:HD23	1:G:1212:ARG:HG3	1.90	0.53
1:G:2145:SER:HB3	1:G:3647:HIS:CD2	2.43	0.53
1:A:232:THR:HG21	1:A:252:VAL:HG21	1.89	0.53
1:A:2145:SER:HB3	1:A:3647:HIS:CD2	2.43	0.53
1:C:1255:TYR:CZ	1:C:1287:LEU:HD11	2.43	0.53
1:C:2145:SER:HB3	1:C:3647:HIS:CD2	2.43	0.53
1:C:2551:ASN:O	1:C:2554:LEU:HG	2.07	0.53
1:C:3842:LEU:HD13	1:C:3954:ALA:HB2	1.91	0.53
1:E:50:GLU:HG2	1:E:65:CYS:SG	2.49	0.53
1:E:176:SER:HB2	1:E:178:ARG:HH21	1.73	0.53
1:E:283:ARG:HG2	1:E:284:HIS:O	2.08	0.53
1:E:2902:HIS:CG	1:E:2903:PRO:HD2	2.44	0.53
1:G:626:LEU:HB3	1:G:1688:HIS:CE1	2.43	0.53
1:G:1127:HIS:CD2	1:G:1128:ARG:HG3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3891:LEU:HB3	1:G:3899:PHE:CE2	2.44	0.53
1:A:421:PHE:HE1	1:A:497:TYR:HH	1.57	0.53
1:A:691:GLY:HA3	1:A:710:ASP:OD2	2.08	0.53
1:A:4888:TYR:O	1:A:4892:ARG:NH2	2.35	0.53
1:A:4962:GLY:O	1:A:4964:GLY:N	2.41	0.53
1:C:669:ASP:HB2	1:C:788:LYS:HG3	1.88	0.53
1:C:1111:PRO:HB2	1:C:1607:ARG:HB3	1.90	0.53
1:E:15:ARG:N	1:E:18:ASP:OD2	2.41	0.53
1:E:915:GLU:HA	1:E:918:ARG:HB2	1.90	0.53
1:E:2126:ARG:HG3	1:E:2133:GLU:OE1	2.08	0.53
2:F:74:LEU:HD23	2:F:76:ILE:HD11	1.90	0.53
1:G:15:ARG:N	1:G:18:ASP:OD2	2.41	0.53
1:G:565:TYR:HB2	1:G:602:VAL:HG22	1.91	0.53
1:G:828:GLU:HG3	1:G:830:ARG:H	1.72	0.53
1:G:915:GLU:HA	1:G:918:ARG:HB2	1.90	0.53
1:G:2149:VAL:O	1:G:2152:THR:OG1	2.19	0.53
1:A:626:LEU:HB3	1:A:1688:HIS:CE1	2.43	0.53
1:A:1111:PRO:HB2	1:A:1607:ARG:HB3	1.90	0.53
1:A:2126:ARG:HG3	1:A:2133:GLU:OE1	2.08	0.53
1:A:3842:LEU:HD13	1:A:3954:ALA:HB2	1.91	0.53
1:C:176:SER:HB2	1:C:178:ARG:HH21	1.73	0.53
1:C:1621:GLY:HA2	1:C:1628:VAL:HA	1.91	0.53
1:C:2197:LEU:O	1:C:2201:LEU:HG	2.09	0.53
1:C:4235:VAL:HG21	1:C:5019:TRP:CZ3	2.43	0.53
1:E:42:PHE:HE2	1:E:399:GLN:HE21	1.55	0.53
1:E:210:GLU:HG2	1:E:273:HIS:HE1	1.73	0.53
1:E:596:ASN:CB	1:E:599:VAL:CG2	2.86	0.53
1:E:636:ASN:OD1	1:E:637:LEU:N	2.42	0.53
1:E:909:ASN:O	1:E:912:SER:OG	2.22	0.53
1:E:1712:TYR:O	1:E:1716:ILE:HG12	2.08	0.53
1:E:1815:LEU:HD11	1:E:1845:VAL:HG21	1.89	0.53
1:E:3891:LEU:HB3	1:E:3899:PHE:CE2	2.44	0.53
1:G:176:SER:HB2	1:G:178:ARG:HH21	1.73	0.53
1:G:596:ASN:CB	1:G:599:VAL:CG2	2.86	0.53
1:G:691:GLY:HA3	1:G:710:ASP:OD2	2.08	0.53
1:G:1205:GLY:HA3	1:G:1227:ALA:HB3	1.90	0.53
1:G:1806:ALA:O	1:G:1810:LYS:HG2	2.09	0.53
1:G:1972:ASN:O	1:G:1975:SER:OG	2.17	0.53
1:G:2198:MET:CE	1:G:2203:MET:HE3	2.10	0.53
2:H:16:PRO:HG3	2:H:106:LEU:HD21	1.90	0.53
1:A:15:ARG:N	1:A:18:ASP:OD2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2112:GLN:O	1:A:2113:SER:OG	2.21	0.53
1:C:15:ARG:N	1:C:18:ASP:OD2	2.41	0.53
1:C:565:TYR:HB2	1:C:602:VAL:HG22	1.91	0.53
1:C:595:ARG:NH2	1:C:1641:ILE:HG12	2.23	0.53
1:C:1211:LEU:HD23	1:C:1212:ARG:HG3	1.90	0.53
1:C:4083:ASP:O	1:C:4084:PRO:CB	2.56	0.53
1:E:721:LEU:HD23	1:E:767:VAL:HG11	1.79	0.53
1:E:3837:GLN:HA	1:E:3837:GLN:HE21	1.70	0.53
1:E:3969:ILE:HD13	1:E:4030:LEU:HD13	1.90	0.53
2:F:27:THR:HA	2:F:38:SER:HA	1.90	0.53
1:G:283:ARG:HG2	1:G:284:HIS:O	2.08	0.53
1:G:703:GLY:N	1:G:1647:CYS:SG	2.82	0.53
1:G:827:LYS:O	1:G:828:GLU:HB3	2.08	0.53
1:G:1660:GLN:NE2	1:G:1704:PRO:HB2	2.24	0.53
1:G:2197:LEU:O	1:G:2201:LEU:HG	2.09	0.53
1:A:2882:TYR:HB2	1:A:2919:ASP:OD2	2.06	0.53
1:C:50:GLU:HG2	1:C:65:CYS:SG	2.49	0.53
1:C:646:PRO:HG2	1:C:779:PRO:HG2	1.91	0.53
1:C:4732:PHE:HE1	1:C:4736:ARG:HD2	1.73	0.53
1:E:189:LEU:N	1:E:189:LEU:HD23	2.23	0.53
1:E:1018:ASN:CB	1:E:1021:LEU:CD2	2.58	0.53
1:E:1111:PRO:HB2	1:E:1607:ARG:HB3	1.90	0.53
1:E:4705:VAL:HG22	1:E:4711:PHE:HD1	1.73	0.53
1:G:595:ARG:NH2	1:G:1641:ILE:HG12	2.23	0.53
1:G:680:THR:HG21	1:G:785:ALA:HB3	1.91	0.53
1:A:273:HIS:CE1	1:A:334:MET:HE2	2.42	0.53
1:A:379:HIS:NE2	1:A:381:GLU:OE1	2.41	0.53
1:A:595:ARG:NH2	1:A:1641:ILE:HG12	2.23	0.53
1:A:596:ASN:CB	1:A:599:VAL:CG2	2.86	0.53
1:A:636:ASN:OD1	1:A:637:LEU:N	2.42	0.53
1:A:1077:ALA:HB3	1:A:1189:LEU:HD22	1.91	0.53
1:A:1806:ALA:O	1:A:1810:LYS:HG2	2.09	0.53
1:C:210:GLU:HG2	1:C:273:HIS:HE1	1.73	0.53
1:C:626:LEU:HB3	1:C:1688:HIS:CE1	2.43	0.53
1:C:1257:VAL:HA	1:C:1277:TRP:NE1	2.23	0.53
1:C:1660:GLN:NE2	1:C:1704:PRO:HB2	2.24	0.53
1:C:2346:VAL:HG23	1:C:2349:ASN:HB2	1.91	0.53
1:E:4235:VAL:HG21	1:E:5019:TRP:CZ3	2.43	0.53
1:G:646:PRO:HG2	1:G:779:PRO:HG2	1.91	0.53
1:G:1095:VAL:HG23	1:G:1201:HIS:H	1.74	0.53
1:A:565:TYR:HB2	1:A:602:VAL:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:646:PRO:HG2	1:A:779:PRO:HG2	1.91	0.53
1:A:1660:GLN:NE2	1:A:1704:PRO:HB2	2.24	0.53
1:A:2346:VAL:HG23	1:A:2349:ASN:HB2	1.91	0.53
2:B:16:PRO:HG3	2:B:106:LEU:HD21	1.90	0.53
1:C:42:PHE:HE2	1:C:399:GLN:HE21	1.55	0.53
1:C:682:LEU:O	1:C:716:PHE:HB2	2.09	0.53
1:C:2126:ARG:HG3	1:C:2133:GLU:OE1	2.08	0.53
2:D:74:LEU:HD23	2:D:76:ILE:HD11	1.90	0.53
1:E:595:ARG:CB	1:E:1662:PHE:CD1	2.72	0.53
1:E:1205:GLY:HA3	1:E:1227:ALA:HB3	1.90	0.53
1:E:2346:VAL:HG23	1:E:2349:ASN:HB2	1.91	0.53
1:E:2517:PHE:O	1:E:2521:VAL:HG23	2.09	0.53
1:E:4181:ILE:HD11	1:E:4991:PHE:CZ	2.44	0.53
1:G:681:HIS:CA	1:G:716:PHE:HD1	2.06	0.53
2:H:74:LEU:HD23	2:H:76:ILE:HD11	1.90	0.53
1:A:181:HIS:CD2	1:A:196:MET:HB2	2.44	0.52
1:A:1082:THR:HG22	1:A:1189:LEU:HG	1.91	0.52
1:A:2929:PHE:O	1:A:2933:ASN:ND2	2.34	0.52
1:A:4693:GLY:C	1:A:4695:ASP:N	2.44	0.52
2:B:74:LEU:HD23	2:B:76:ILE:HD11	1.90	0.52
1:C:425:PRO:HA	1:C:506:TYR:HA	1.91	0.52
1:C:1095:VAL:HG23	1:C:1201:HIS:H	1.74	0.52
1:C:2517:PHE:O	1:C:2521:VAL:HG23	2.09	0.52
1:C:3794:VAL:O	1:C:3797:THR:OG1	2.18	0.52
1:C:4181:ILE:HD11	1:C:4991:PHE:CZ	2.44	0.52
1:E:438:ILE:HG23	1:E:518:ILE:HD11	1.92	0.52
1:E:703:GLY:N	1:E:1647:CYS:SG	2.82	0.52
1:E:716:PHE:CG	1:E:717:ASP:H	1.59	0.52
1:E:1660:GLN:NE2	1:E:1704:PRO:HB2	2.24	0.52
1:E:2197:LEU:O	1:E:2201:LEU:HG	2.09	0.52
1:E:3842:LEU:HD13	1:E:3954:ALA:HB2	1.91	0.52
1:E:3903:LEU:HD22	1:E:3915:ILE:HD12	1.92	0.52
1:G:425:PRO:HA	1:G:506:TYR:HA	1.91	0.52
1:G:607:CYS:SG	1:G:1673:VAL:HA	2.50	0.52
1:G:2822:THR:HG1	1:G:2938:THR:HG1	1.56	0.52
1:A:646:PRO:HB2	1:A:793:LEU:CD1	2.26	0.52
1:A:915:GLU:HA	1:A:918:ARG:HB2	1.90	0.52
1:A:1095:VAL:HG23	1:A:1201:HIS:H	1.74	0.52
1:A:3940:LYS:O	1:A:3942:VAL:N	2.43	0.52
1:A:4661:TYR:HE2	1:A:4789:PHE:HB2	1.74	0.52
1:C:681:HIS:HE1	1:C:705:ASN:H	1.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4661:TYR:HE2	1:C:4789:PHE:HB2	1.74	0.52
1:E:181:HIS:CD2	1:E:196:MET:HB2	2.44	0.52
1:E:646:PRO:HG2	1:E:779:PRO:HG2	1.91	0.52
1:E:1743:ARG:CB	1:E:1963:GLU:HG2	2.32	0.52
1:G:50:GLU:HG2	1:G:65:CYS:SG	2.49	0.52
1:G:681:HIS:HE1	1:G:705:ASN:H	1.56	0.52
1:G:2112:GLN:O	1:G:2113:SER:OG	2.21	0.52
1:A:1018:ASN:HB3	1:A:1021:LEU:CG	2.36	0.52
1:A:1205:GLY:HA3	1:A:1227:ALA:HB3	1.90	0.52
1:A:1637:MET:HG3	1:A:1650:ILE:HD13	1.91	0.52
1:A:4732:PHE:HE1	1:A:4736:ARG:HD2	1.73	0.52
1:C:596:ASN:CB	1:C:599:VAL:CG2	2.86	0.52
1:C:636:ASN:OD1	1:C:637:LEU:N	2.42	0.52
1:C:4686:LEU:CD2	1:C:4687:TYR:CE1	2.85	0.52
1:E:591:ASP:O	1:E:1598:GLN:NE2	2.41	0.52
1:E:1077:ALA:HB3	1:E:1189:LEU:HD22	1.91	0.52
1:G:2453:ILE:O	1:G:2457:LEU:HD13	2.09	0.52
1:G:3903:LEU:HD22	1:G:3915:ILE:HD12	1.92	0.52
1:G:3962:PHE:O	1:G:3966:THR:HG23	2.10	0.52
1:A:177:GLU:OE2	1:C:2452:ARG:NH1	2.43	0.52
1:A:680:THR:HG21	1:A:785:ALA:HB3	1.91	0.52
1:A:1078:GLU:OE1	1:A:1235:THR:OG1	2.25	0.52
1:A:2149:VAL:O	1:A:2152:THR:OG1	2.19	0.52
1:C:1806:ALA:O	1:C:1810:LYS:HG2	2.09	0.52
1:C:2499:LYS:HD2	1:C:2553:TYR:CE1	2.45	0.52
1:E:607:CYS:SG	1:E:1673:VAL:HA	2.50	0.52
1:G:1078:GLU:OE1	1:G:1235:THR:OG1	2.25	0.52
1:G:3794:VAL:O	1:G:3797:THR:OG1	2.18	0.52
1:A:50:GLU:HG2	1:A:65:CYS:SG	2.49	0.52
1:A:4849:TYR:O	1:A:4852:THR:HG22	2.10	0.52
1:C:1077:ALA:HB3	1:C:1189:LEU:HD22	1.91	0.52
1:E:595:ARG:NH2	1:E:1641:ILE:HG12	2.23	0.52
1:E:4640:GLU:HB3	1:E:4641:PRO:HD3	1.91	0.52
1:G:181:HIS:CD2	1:G:196:MET:HB2	2.44	0.52
1:G:1621:GLY:HA2	1:G:1628:VAL:HA	1.91	0.52
1:G:2346:VAL:HG23	1:G:2349:ASN:HB2	1.91	0.52
1:G:4661:TYR:HE2	1:G:4789:PHE:HB2	1.74	0.52
1:A:703:GLY:N	1:A:1647:CYS:SG	2.82	0.52
1:A:1206:GLN:O	1:A:1209:SER:OG	2.23	0.52
1:A:4823:LEU:HD12	1:G:4839:MET:HG3	1.92	0.52
1:C:181:HIS:CD2	1:C:196:MET:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:683:ARG:NH1	1:C:722:TRP:CB	2.73	0.52
1:C:703:GLY:N	1:C:1647:CYS:SG	2.82	0.52
1:C:2383:ALA:HB1	1:C:2423:MET:HB2	1.92	0.52
1:C:2902:HIS:CG	1:C:2903:PRO:HD2	2.44	0.52
1:E:177:GLU:OE2	1:G:2452:ARG:NH1	2.43	0.52
1:E:680:THR:HG21	1:E:785:ALA:HB3	1.91	0.52
1:E:2341:VAL:HG22	1:E:2342:ASN:H	1.75	0.52
1:E:3962:PHE:O	1:E:3966:THR:HG23	2.10	0.52
1:E:4802:GLY:HA2	1:E:4809:PHE:HB2	1.92	0.52
1:G:438:ILE:HG23	1:G:518:ILE:HD11	1.92	0.52
1:G:683:ARG:NH1	1:G:722:TRP:CB	2.73	0.52
1:G:1077:ALA:HB3	1:G:1189:LEU:HD22	1.91	0.52
1:G:1082:THR:HG22	1:G:1189:LEU:HG	1.91	0.52
1:A:1236:THR:O	1:A:1237:TRP:HD1	1.93	0.52
1:A:2383:ALA:HB1	1:A:2423:MET:HB2	1.92	0.52
1:C:177:GLU:OE2	1:E:2452:ARG:NH1	2.43	0.52
1:C:1236:THR:O	1:C:1237:TRP:HD1	1.93	0.52
1:C:1743:ARG:CG	1:C:1963:GLU:CG	2.86	0.52
1:C:2192:TYR:HE1	1:C:2238:TYR:HE2	1.58	0.52
1:C:2341:VAL:HG22	1:C:2342:ASN:H	1.75	0.52
1:C:3897:ASN:O	1:C:3901:ASN:ND2	2.40	0.52
1:E:497:TYR:HE1	1:E:506:TYR:CG	2.28	0.52
1:E:681:HIS:CA	1:E:716:PHE:HD1	2.06	0.52
1:E:1621:GLY:HA2	1:E:1628:VAL:HA	1.91	0.52
1:E:1853:ILE:HG22	1:E:1854:PHE:HD1	1.67	0.52
1:E:2870:GLU:OE2	1:E:2939:ARG:NE	2.42	0.52
1:E:4839:MET:HG3	1:G:4823:LEU:HD12	1.92	0.52
1:G:3842:LEU:HD13	1:G:3954:ALA:HB2	1.91	0.52
1:A:176:SER:HB2	1:A:178:ARG:HH21	1.73	0.52
1:A:2453:ILE:O	1:A:2457:LEU:HD13	2.09	0.52
1:A:2499:LYS:HD2	1:A:2553:TYR:CE1	2.45	0.52
1:A:2870:GLU:OE2	1:A:2939:ARG:NE	2.42	0.52
1:C:1018:ASN:CB	1:C:1021:LEU:CD2	2.58	0.52
1:C:2453:ILE:O	1:C:2457:LEU:HD13	2.09	0.52
1:C:4802:GLY:HA2	1:C:4809:PHE:HB2	1.92	0.52
1:E:1095:VAL:HG23	1:E:1201:HIS:H	1.74	0.52
2:F:37:ASP:OD1	2:F:38:SER:N	2.43	0.52
1:G:636:ASN:OD1	1:G:637:LEU:N	2.42	0.52
1:G:1637:MET:HG3	1:G:1650:ILE:HD13	1.91	0.52
1:G:4849:TYR:O	1:G:4852:THR:HG22	2.10	0.52
1:A:425:PRO:HA	1:A:506:TYR:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:607:CYS:SG	1:A:1673:VAL:HA	2.50	0.52
1:A:680:THR:HG21	1:A:784:SER:O	2.10	0.52
1:A:1295:VAL:O	1:A:1547:LYS:HA	2.10	0.52
1:A:2192:TYR:HE1	1:A:2238:TYR:HE2	1.58	0.52
1:C:993:HIS:NE2	1:C:1020:ARG:O	2.43	0.52
1:C:1082:THR:HG22	1:C:1189:LEU:HG	1.91	0.52
1:C:1585:LYS:HB3	1:C:1587:PRO:HD2	1.92	0.52
1:C:2195:PRO:HB3	1:C:2242:ILE:HD12	1.92	0.52
1:C:3903:LEU:HD22	1:C:3915:ILE:HD12	1.92	0.52
1:E:554:LEU:HD21	1:E:1597:VAL:CG2	2.33	0.52
1:E:682:LEU:O	1:E:716:PHE:HB2	2.09	0.52
1:E:1072:VAL:HG13	1:E:1194:LEU:O	2.10	0.52
1:E:2499:LYS:HD2	1:E:2553:TYR:CE1	2.45	0.52
1:E:4849:TYR:O	1:E:4852:THR:HG22	2.10	0.52
1:G:497:TYR:HE1	1:G:506:TYR:CG	2.28	0.52
1:G:680:THR:HG21	1:G:784:SER:O	2.10	0.52
1:G:2557:ALA:O	1:G:2560:PRO:HD2	2.10	0.52
1:G:3940:LYS:O	1:G:3942:VAL:N	2.43	0.52
1:A:1448:VAL:HG11	1:A:1554:VAL:HG22	1.85	0.52
1:A:1621:GLY:HA2	1:A:1628:VAL:HA	1.91	0.52
1:A:2197:LEU:O	1:A:2201:LEU:HG	2.09	0.52
1:A:4705:VAL:HG22	1:A:4711:PHE:HD1	1.73	0.52
2:B:37:ASP:OD1	2:B:38:SER:N	2.43	0.52
1:C:1637:MET:HG3	1:C:1650:ILE:HD13	1.91	0.52
1:C:4577:LEU:HD21	1:C:4806:ASN:O	2.10	0.52
1:C:4640:GLU:HB3	1:C:4641:PRO:HD3	1.91	0.52
1:E:1743:ARG:CG	1:E:1963:GLU:CG	2.86	0.52
1:E:2453:ILE:O	1:E:2457:LEU:HD13	2.09	0.52
1:E:2557:ALA:O	1:E:2560:PRO:HD2	2.10	0.52
1:E:4661:TYR:HE2	1:E:4789:PHE:HB2	1.74	0.52
1:G:1072:VAL:HG13	1:G:1194:LEU:O	2.10	0.52
1:G:4013:LEU:O	1:G:4017:LEU:HG	2.11	0.52
1:A:682:LEU:O	1:A:716:PHE:HB2	2.09	0.51
1:A:1018:ASN:CG	1:A:1019:PRO:HD2	2.31	0.51
1:A:2195:PRO:HB3	1:A:2242:ILE:HD12	1.92	0.51
1:C:554:LEU:HD21	1:C:1597:VAL:CG2	2.33	0.51
1:C:680:THR:HG21	1:C:785:ALA:HB3	1.91	0.51
1:C:1240:LYS:HZ1	1:C:1610:ASN:HD22	1.57	0.51
1:C:1295:VAL:O	1:C:1547:LYS:HA	2.10	0.51
1:C:2902:HIS:H	1:C:2905:LEU:HD12	1.75	0.51
1:C:2929:PHE:O	1:C:2933:ASN:ND2	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3940:LYS:O	1:C:3942:VAL:N	2.43	0.51
1:C:4839:MET:HG3	1:E:4823:LEU:HD12	1.92	0.51
2:D:16:PRO:HG3	2:D:106:LEU:HD21	1.90	0.51
1:E:4577:LEU:HD21	1:E:4806:ASN:O	2.10	0.51
1:G:554:LEU:HD21	1:G:1597:VAL:CG2	2.33	0.51
1:G:4035:VAL:HG12	1:G:4036:VAL:N	2.25	0.51
1:G:4640:GLU:HB3	1:G:4641:PRO:HD3	1.91	0.51
1:G:4802:GLY:HA2	1:G:4809:PHE:HB2	1.92	0.51
1:A:2128:TYR:O	1:A:3669:PHE:CD2	2.62	0.51
1:A:2452:ARG:NH1	1:G:177:GLU:OE2	2.43	0.51
1:A:3885:PHE:CG	1:A:3961:VAL:HG22	2.46	0.51
1:A:3903:LEU:HD22	1:A:3915:ILE:HD12	1.92	0.51
1:A:4181:ILE:HD11	1:A:4991:PHE:CZ	2.44	0.51
2:B:21:THR:HB	2:B:107:GLU:HB2	1.93	0.51
1:C:716:PHE:CD2	1:C:717:ASP:CA	2.93	0.51
1:C:2557:ALA:O	1:C:2560:PRO:HD2	2.10	0.51
1:C:3962:PHE:O	1:C:3966:THR:HG23	2.10	0.51
1:C:4242:ILE:HD13	1:C:4996:ILE:HD12	1.93	0.51
1:C:4686:LEU:HG	1:C:4687:TYR:N	2.26	0.51
1:E:70:GLU:C	1:E:71:GLN:CG	2.79	0.51
1:E:1018:ASN:CG	1:E:1019:PRO:HD2	2.31	0.51
1:E:1100:MET:SD	1:E:1194:LEU:HA	2.50	0.51
1:E:1132:TRP:CD1	1:E:1136:SER:N	2.79	0.51
1:E:1434:TYR:HA	1:E:1518:CYS:HA	1.92	0.51
1:E:2383:ALA:HB1	1:E:2423:MET:HB2	1.92	0.51
1:E:3940:LYS:O	1:E:3942:VAL:N	2.43	0.51
1:E:4013:LEU:O	1:E:4017:LEU:HG	2.11	0.51
1:G:40:GLU:HB2	1:G:48:PHE:HE2	1.74	0.51
1:G:1278:GLY:HA2	1:G:1561:VAL:H	1.75	0.51
1:G:2383:ALA:HB1	1:G:2423:MET:HB2	1.92	0.51
2:H:37:ASP:OD1	2:H:38:SER:N	2.43	0.51
1:A:497:TYR:HE1	1:A:506:TYR:CG	2.28	0.51
1:A:683:ARG:NH1	1:A:722:TRP:CB	2.73	0.51
1:A:2094:LEU:O	1:A:2098:VAL:HG23	2.11	0.51
1:A:2341:VAL:HG22	1:A:2342:ASN:H	1.75	0.51
1:A:3962:PHE:O	1:A:3966:THR:HG23	2.10	0.51
1:A:4640:GLU:HB3	1:A:4641:PRO:HD3	1.91	0.51
1:C:4962:GLY:O	1:C:4964:GLY:N	2.41	0.51
1:E:649:PHE:HD1	1:E:778:PHE:HB3	1.76	0.51
1:E:2192:TYR:HE1	1:E:2238:TYR:HE2	1.58	0.51
1:E:2195:PRO:HB3	1:E:2242:ILE:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2902:HIS:H	1:E:2905:LEU:HD12	1.75	0.51
1:G:125:ARG:HB3	1:G:134:ASP:OD1	2.09	0.51
1:G:725:HIS:ND1	1:G:725:HIS:O	2.44	0.51
1:G:2094:LEU:O	1:G:2098:VAL:HG23	2.11	0.51
1:G:2192:TYR:HE1	1:G:2238:TYR:HE2	1.58	0.51
1:G:3885:PHE:CG	1:G:3961:VAL:HG22	2.46	0.51
1:G:4181:ILE:HD11	1:G:4991:PHE:CZ	2.44	0.51
1:G:4195:PHE:CD1	1:G:4195:PHE:C	2.84	0.51
1:A:40:GLU:HB2	1:A:48:PHE:HE2	1.74	0.51
1:A:1072:VAL:HG13	1:A:1194:LEU:O	2.10	0.51
1:A:4577:LEU:HD21	1:A:4806:ASN:O	2.10	0.51
1:A:4839:MET:HG3	1:C:4823:LEU:HD12	1.92	0.51
2:B:54:GLU:HG3	2:B:55:VAL:HG13	1.93	0.51
1:C:70:GLU:C	1:C:71:GLN:CG	2.79	0.51
1:C:438:ILE:HG23	1:C:518:ILE:HD11	1.92	0.51
1:C:1018:ASN:CG	1:C:1019:PRO:HD2	2.31	0.51
1:C:1276:THR:O	1:C:1277:TRP:HD1	1.94	0.51
1:C:4690:GLU:O	1:C:4691:GLN:HG2	2.11	0.51
1:C:4849:TYR:O	1:C:4852:THR:HG22	2.10	0.51
1:E:533:ASN:HB2	1:E:536:ASN:ND2	2.23	0.51
1:E:681:HIS:HE1	1:E:705:ASN:H	1.56	0.51
1:E:3885:PHE:CG	1:E:3961:VAL:HG22	2.46	0.51
1:E:4027:LEU:O	1:E:4030:LEU:HB3	2.11	0.51
1:G:649:PHE:HD1	1:G:778:PHE:HB3	1.76	0.51
1:G:1528:THR:HG22	1:G:1538:THR:CB	2.41	0.51
1:G:3997:ALA:O	1:G:4000:MET:HG2	2.11	0.51
1:G:4242:ILE:HD13	1:G:4996:ILE:HD12	1.93	0.51
2:H:21:THR:HB	2:H:107:GLU:HB2	1.93	0.51
1:A:438:ILE:HG23	1:A:518:ILE:HD11	1.92	0.51
1:A:681:HIS:HE1	1:A:705:ASN:H	1.56	0.51
1:A:993:HIS:NE2	1:A:1020:ARG:O	2.43	0.51
1:A:1100:MET:SD	1:A:1194:LEU:HA	2.50	0.51
1:A:1276:THR:O	1:A:1277:TRP:HD1	1.94	0.51
1:A:2517:PHE:O	1:A:2521:VAL:HG23	2.09	0.51
1:A:4027:LEU:O	1:A:4030:LEU:HB3	2.11	0.51
1:A:4242:ILE:HD13	1:A:4996:ILE:HD12	1.93	0.51
1:C:607:CYS:SG	1:C:1673:VAL:HA	2.50	0.51
1:C:1278:GLY:HA2	1:C:1561:VAL:H	1.75	0.51
1:C:1728:ARG:HG2	1:C:1850:VAL:HG11	1.92	0.51
1:E:40:GLU:HB2	1:E:48:PHE:HE2	1.74	0.51
1:E:125:ARG:CB	1:E:134:ASP:CG	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:680:THR:HG21	1:E:784:SER:O	2.10	0.51
1:G:583:ILE:HD11	1:G:617:ASN:OD1	2.11	0.51
1:G:600:LEU:CD2	1:G:1666:THR:HA	2.30	0.51
1:G:993:HIS:NE2	1:G:1020:ARG:O	2.43	0.51
1:G:1100:MET:SD	1:G:1194:LEU:HA	2.50	0.51
1:G:1236:THR:O	1:G:1237:TRP:HD1	1.93	0.51
1:G:2499:LYS:HD2	1:G:2553:TYR:CE1	2.45	0.51
1:G:4108:ILE:HA	1:G:4111:LEU:HD13	1.92	0.51
2:H:54:GLU:HG3	2:H:55:VAL:HG13	1.93	0.51
1:A:716:PHE:CD2	1:A:717:ASP:CA	2.93	0.51
1:A:1132:TRP:CD1	1:A:1136:SER:N	2.79	0.51
1:A:1134:LEU:HD23	1:A:1134:LEU:O	2.11	0.51
1:A:1585:LYS:HB3	1:A:1587:PRO:HD2	1.92	0.51
1:C:1072:VAL:HG13	1:C:1194:LEU:O	2.10	0.51
1:C:1132:TRP:CD1	1:C:1136:SER:N	2.79	0.51
1:C:2094:LEU:O	1:C:2098:VAL:HG23	2.11	0.51
1:C:3670:GLU:OE2	1:C:3731:LYS:HD2	2.11	0.51
1:E:1082:THR:HG22	1:E:1189:LEU:HG	1.91	0.51
1:E:1236:THR:O	1:E:1237:TRP:HD1	1.93	0.51
1:E:1252:HIS:HB3	1:E:1254:HIS:HA	1.92	0.51
1:E:1585:LYS:HB3	1:E:1587:PRO:HD2	1.92	0.51
1:E:1728:ARG:HG2	1:E:1850:VAL:HG11	1.92	0.51
1:E:1806:ALA:O	1:E:1810:LYS:HG2	2.09	0.51
1:E:2503:VAL:HB	1:E:2556:LEU:HD22	1.93	0.51
1:E:4888:TYR:O	1:E:4892:ARG:NH2	2.35	0.51
1:G:421:PHE:HE1	1:G:497:TYR:HH	1.58	0.51
1:G:2195:PRO:HB3	1:G:2242:ILE:HD12	1.92	0.51
1:G:2341:VAL:HG22	1:G:2342:ASN:H	1.75	0.51
1:G:4577:LEU:HD21	1:G:4806:ASN:O	2.10	0.51
1:G:4686:LEU:HG	1:G:4687:TYR:N	2.26	0.51
1:G:4951:LYS:O	1:G:4955:GLU:HG2	2.11	0.51
1:A:725:HIS:ND1	1:A:725:HIS:O	2.44	0.51
1:A:3997:ALA:O	1:A:4000:MET:HG2	2.11	0.51
1:C:680:THR:HG21	1:C:784:SER:O	2.10	0.51
1:C:1252:HIS:HB3	1:C:1254:HIS:HA	1.92	0.51
1:C:1287:LEU:HB2	1:C:1554:VAL:HB	1.93	0.51
1:C:1743:ARG:CB	1:C:1963:GLU:HG2	2.32	0.51
1:C:4951:LYS:O	1:C:4955:GLU:HG2	2.11	0.51
1:E:13:PHE:CD1	1:E:13:PHE:N	2.79	0.51
1:E:802:PHE:CE2	1:E:804:PRO:HG3	2.46	0.51
1:E:1261:ASP:HA	1:E:1273:ALA:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1295:VAL:O	1:E:1547:LYS:HA	2.10	0.51
1:E:1766:GLY:N	1:E:1856:ASP:CG	2.64	0.51
1:E:1972:ASN:O	1:E:1975:SER:OG	2.17	0.51
1:G:682:LEU:O	1:G:716:PHE:HB2	2.09	0.51
1:G:821:LEU:HD13	1:G:1626:TRP:HH2	1.75	0.51
1:G:1434:TYR:HA	1:G:1518:CYS:HA	1.92	0.51
1:A:70:GLU:C	1:A:71:GLN:CG	2.79	0.51
1:A:595:ARG:CB	1:A:1662:PHE:CD1	2.72	0.51
1:A:649:PHE:HD1	1:A:778:PHE:HB3	1.76	0.51
1:A:821:LEU:HD13	1:A:1626:TRP:HH2	1.75	0.51
1:A:1743:ARG:CG	1:A:1963:GLU:CG	2.86	0.51
1:A:3937:TYR:CD1	1:A:3943:ILE:HG12	2.46	0.51
1:A:4686:LEU:HG	1:A:4687:TYR:N	2.26	0.51
1:C:497:TYR:HE1	1:C:506:TYR:CG	2.28	0.51
1:C:641:VAL:HG11	1:C:704:GLY:HA2	1.93	0.51
1:C:1766:GLY:N	1:C:1856:ASP:CG	2.64	0.51
1:C:2182:ILE:HA	1:C:2185:ILE:HD12	1.93	0.51
1:C:3885:PHE:CG	1:C:3961:VAL:HG22	2.46	0.51
1:E:683:ARG:NH1	1:E:722:TRP:CB	2.73	0.51
1:E:725:HIS:ND1	1:E:725:HIS:O	2.44	0.51
1:E:1078:GLU:OE1	1:E:1235:THR:OG1	2.25	0.51
1:E:1278:GLY:HA2	1:E:1561:VAL:H	1.75	0.51
1:E:1297:PHE:HB2	1:E:1545:ASN:CA	2.38	0.51
1:E:2094:LEU:O	1:E:2098:VAL:HG23	2.11	0.51
1:E:3670:GLU:OE2	1:E:3731:LYS:HD2	2.11	0.51
1:E:4951:LYS:O	1:E:4955:GLU:HG2	2.11	0.51
1:G:1132:TRP:CD1	1:G:1136:SER:N	2.79	0.51
1:G:1295:VAL:O	1:G:1547:LYS:HA	2.10	0.51
1:G:2503:VAL:HB	1:G:2556:LEU:HD22	1.93	0.51
1:G:3937:TYR:CD1	1:G:3943:ILE:HG12	2.46	0.51
1:G:4690:GLU:O	1:G:4691:GLN:HG2	2.11	0.51
1:A:1278:GLY:HA2	1:A:1561:VAL:H	1.75	0.51
1:A:2557:ALA:O	1:A:2560:PRO:HD2	2.10	0.51
1:A:4013:LEU:O	1:A:4017:LEU:HG	2.11	0.51
1:A:4037:ASN:HB3	1:A:4042:ARG:HH21	1.76	0.51
1:C:645:ARG:HG2	1:C:826:ILE:HG13	1.92	0.51
1:C:649:PHE:HD1	1:C:778:PHE:HB3	1.76	0.51
1:C:4013:LEU:O	1:C:4017:LEU:HG	2.11	0.51
1:C:4035:VAL:HG12	1:C:4036:VAL:N	2.25	0.51
1:C:4108:ILE:HA	1:C:4111:LEU:HD13	1.92	0.51
2:D:21:THR:HB	2:D:107:GLU:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4037:ASN:HB3	1:E:4042:ARG:HH21	1.76	0.51
1:G:13:PHE:CD1	1:G:13:PHE:N	2.79	0.51
1:G:1018:ASN:CG	1:G:1019:PRO:HD2	2.31	0.51
1:G:1261:ASP:HA	1:G:1273:ALA:HA	1.93	0.51
1:G:1276:THR:O	1:G:1277:TRP:HD1	1.94	0.51
1:G:2902:HIS:H	1:G:2905:LEU:HD12	1.75	0.51
1:G:3669:PHE:CD1	1:G:3669:PHE:N	2.79	0.51
1:G:4178:LEU:HD12	1:G:4178:LEU:O	2.11	0.51
1:A:1252:HIS:HB3	1:A:1254:HIS:HA	1.92	0.51
1:A:1766:GLY:N	1:A:1856:ASP:CG	2.64	0.51
1:A:2182:ILE:HA	1:A:2185:ILE:HD12	1.93	0.51
1:A:4108:ILE:HA	1:A:4111:LEU:HD13	1.92	0.51
1:A:4690:GLU:O	1:A:4691:GLN:HG2	2.11	0.51
1:A:4802:GLY:HA2	1:A:4809:PHE:HB2	1.92	0.51
1:C:1100:MET:SD	1:C:1194:LEU:HA	2.50	0.51
1:E:583:ILE:HD11	1:E:617:ASN:OD1	2.11	0.51
1:E:645:ARG:HG2	1:E:826:ILE:HG13	1.92	0.51
1:E:1528:THR:HG22	1:E:1538:THR:CB	2.41	0.51
1:G:793:LEU:HD22	1:G:811:CYS:HB3	1.92	0.51
1:G:1134:LEU:O	1:G:1134:LEU:HD23	2.11	0.51
1:G:1252:HIS:HB3	1:G:1254:HIS:HA	1.92	0.51
1:A:37:LEU:HD11	1:A:47:CYS:HB3	1.93	0.50
1:A:106:ALA:HA	1:A:149:THR:HA	1.93	0.50
1:A:1528:THR:HG22	1:A:1538:THR:CB	2.41	0.50
1:A:2227:LYS:O	1:A:2230:THR:OG1	2.18	0.50
1:A:4195:PHE:CD1	1:A:4195:PHE:C	2.84	0.50
1:C:40:GLU:HB2	1:C:48:PHE:HE2	1.74	0.50
1:C:533:ASN:HB2	1:C:536:ASN:ND2	2.23	0.50
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.12	0.50
1:C:4195:PHE:C	1:C:4195:PHE:CD1	2.84	0.50
1:C:4552:LEU:HD21	1:C:4663:CYS:SG	2.52	0.50
2:D:37:ASP:OD1	2:D:38:SER:N	2.43	0.50
1:E:993:HIS:NE2	1:E:1020:ARG:O	2.43	0.50
1:E:4242:ILE:HD13	1:E:4996:ILE:HD12	1.93	0.50
2:F:54:GLU:HG3	2:F:55:VAL:HG13	1.93	0.50
1:G:1585:LYS:HB3	1:G:1587:PRO:HD2	1.92	0.50
1:G:1728:ARG:HG2	1:G:1850:VAL:HG11	1.92	0.50
1:G:1766:GLY:N	1:G:1856:ASP:CG	2.64	0.50
1:G:4904:PRO:CD	1:G:4913:ARG:HH11	2.24	0.50
1:A:42:PHE:HD1	1:A:447:ASP:CG	2.15	0.50
1:A:817:PRO:O	1:A:1027:LEU:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2498:HIS:O	1:A:2501:SER:OG	2.22	0.50
1:A:2902:HIS:H	1:A:2905:LEU:HD12	1.75	0.50
1:C:37:LEU:HD11	1:C:47:CYS:HB3	1.93	0.50
1:C:42:PHE:HD1	1:C:447:ASP:CG	2.15	0.50
1:C:674:PHE:HE1	1:C:679:ALA:HB2	1.77	0.50
1:C:1134:LEU:HD23	1:C:1134:LEU:O	2.11	0.50
1:C:3699:HIS:HB2	1:C:3773:ARG:HD2	1.94	0.50
1:E:42:PHE:HD1	1:E:447:ASP:CG	2.15	0.50
1:E:641:VAL:HG11	1:E:704:GLY:HA2	1.93	0.50
1:E:1287:LEU:HB2	1:E:1554:VAL:HB	1.93	0.50
1:E:4195:PHE:C	1:E:4195:PHE:CD1	2.84	0.50
1:E:4680:LYS:C	1:E:4684:ASP:HB2	2.32	0.50
1:E:4690:GLU:O	1:E:4691:GLN:HG2	2.11	0.50
1:G:802:PHE:CE2	1:G:804:PRO:HG3	2.46	0.50
1:G:2123:LEU:O	1:G:2127:GLN:HG2	2.12	0.50
1:G:2517:PHE:O	1:G:2521:VAL:HG23	2.09	0.50
1:G:4027:LEU:O	1:G:4030:LEU:HB3	2.11	0.50
1:A:583:ILE:HD11	1:A:617:ASN:OD1	2.11	0.50
1:C:106:ALA:HA	1:C:149:THR:HA	1.93	0.50
1:C:583:ILE:HD11	1:C:617:ASN:OD1	2.11	0.50
1:C:802:PHE:CE2	1:C:804:PRO:HG3	2.46	0.50
1:C:1450:VAL:HG13	1:C:1552:VAL:HG22	1.93	0.50
1:C:4027:LEU:O	1:C:4030:LEU:HB3	2.11	0.50
1:E:3699:HIS:HB2	1:E:3773:ARG:HD2	1.94	0.50
1:E:3937:TYR:CD1	1:E:3943:ILE:HG12	2.46	0.50
1:G:1944:GLU:HB2	1:G:2123:LEU:HD11	1.93	0.50
1:G:4900:GLU:OE1	1:G:4900:GLU:HA	2.12	0.50
1:A:1943:LEU:HD21	1:A:2098:VAL:HG22	1.93	0.50
1:A:4720:VAL:O	1:A:4724:VAL:HG23	2.12	0.50
1:A:4904:PRO:CD	1:A:4913:ARG:HH11	2.24	0.50
1:C:817:PRO:O	1:C:1027:LEU:HA	2.11	0.50
1:C:1434:TYR:HA	1:C:1518:CYS:HA	1.92	0.50
1:C:3937:TYR:CD1	1:C:3943:ILE:HG12	2.46	0.50
1:C:3997:ALA:O	1:C:4000:MET:HG2	2.11	0.50
1:C:4037:ASN:HB3	1:C:4042:ARG:HH21	1.76	0.50
2:D:54:GLU:HG3	2:D:55:VAL:HG13	1.93	0.50
1:E:716:PHE:CD2	1:E:717:ASP:CA	2.93	0.50
1:E:1637:MET:HG3	1:E:1650:ILE:HD13	1.91	0.50
2:F:21:THR:HB	2:F:107:GLU:HB2	1.93	0.50
1:G:4680:LYS:C	1:G:4684:ASP:HB2	2.32	0.50
1:G:4693:GLY:C	1:G:4695:ASP:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4710:SER:O	1:G:4713:SER:OG	2.16	0.50
1:G:4720:VAL:O	1:G:4724:VAL:HG23	2.12	0.50
1:A:229:GLU:HA	1:A:249:GLY:HA2	1.94	0.50
1:A:603:LEU:HD23	1:A:606:LEU:HD12	1.94	0.50
1:A:802:PHE:CE2	1:A:804:PRO:HG3	2.46	0.50
1:A:1434:TYR:HA	1:A:1518:CYS:HA	1.92	0.50
1:A:4055:VAL:HG13	1:A:4058:ILE:HD11	1.94	0.50
1:A:4680:LYS:O	1:A:4684:ASP:CB	2.59	0.50
1:C:229:GLU:HA	1:C:249:GLY:HA2	1.94	0.50
1:C:592:LYS:HE3	1:C:1596:GLU:CD	2.31	0.50
1:C:793:LEU:HD22	1:C:811:CYS:HB3	1.92	0.50
1:C:1101:ARG:HB2	1:C:1193:SER:OG	2.12	0.50
1:C:4861:LYS:HG3	1:C:4862:PHE:CD1	2.47	0.50
1:C:4904:PRO:CD	1:C:4913:ARG:HH11	2.24	0.50
1:E:674:PHE:HE1	1:E:679:ALA:HB2	1.77	0.50
1:E:2125:HIS:CE1	1:E:3724:ALA:HB1	2.47	0.50
1:E:2149:VAL:O	1:E:2152:THR:OG1	2.19	0.50
1:E:3997:ALA:O	1:E:4000:MET:HG2	2.11	0.50
1:E:4108:ILE:HA	1:E:4111:LEU:HD13	1.92	0.50
1:G:645:ARG:HG2	1:G:826:ILE:HG13	1.92	0.50
1:G:1943:LEU:HD21	1:G:2098:VAL:HG22	1.93	0.50
1:G:3699:HIS:HD2	1:G:3773:ARG:HA	1.77	0.50
1:G:4037:ASN:HB3	1:G:4042:ARG:HH21	1.76	0.50
1:G:4238:CYS:O	1:G:4242:ILE:HG13	2.12	0.50
1:G:4552:LEU:HD21	1:G:4663:CYS:SG	2.52	0.50
1:A:1287:LEU:HB2	1:A:1554:VAL:HB	1.93	0.50
1:A:1728:ARG:HG2	1:A:1850:VAL:HG11	1.92	0.50
1:A:3699:HIS:HB2	1:A:3773:ARG:HD2	1.94	0.50
1:C:1448:VAL:HG11	1:C:1554:VAL:HG22	1.85	0.50
1:C:2503:VAL:HB	1:C:2556:LEU:HD22	1.93	0.50
1:C:4181:ILE:CD1	1:C:4991:PHE:CD1	2.95	0.50
1:C:4238:CYS:O	1:C:4242:ILE:HG13	2.12	0.50
1:C:4708:THR:HG22	1:C:4710:SER:N	2.22	0.50
1:E:4238:CYS:O	1:E:4242:ILE:HG13	2.12	0.50
1:G:554:LEU:CD2	1:G:593:HIS:CE1	2.95	0.50
1:G:3699:HIS:HB2	1:G:3773:ARG:HD2	1.94	0.50
1:G:4702:ASP:HA	1:G:4778:TRP:HE1	1.77	0.50
1:A:600:LEU:CD2	1:A:1666:THR:HA	2.30	0.50
1:A:617:ASN:O	1:A:621:ILE:HG12	2.12	0.50
1:A:3670:GLU:OE2	1:A:3731:LYS:HD2	2.11	0.50
1:A:4552:LEU:HD21	1:A:4663:CYS:SG	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4702:ASP:HA	1:A:4778:TRP:HE1	1.77	0.50
1:C:49:LEU:HD21	1:C:191:VAL:CG2	2.42	0.50
1:C:1528:THR:HG22	1:C:1538:THR:CB	2.41	0.50
1:E:1731:LEU:HA	1:E:1772:ARG:HH21	1.77	0.50
1:E:2123:LEU:O	1:E:2127:GLN:HG2	2.12	0.50
1:E:4552:LEU:HD21	1:E:4663:CYS:SG	2.52	0.50
1:E:4686:LEU:HG	1:E:4687:TYR:N	2.26	0.50
1:E:4962:GLY:O	1:E:4964:GLY:N	2.41	0.50
1:G:42:PHE:HD1	1:G:447:ASP:CG	2.15	0.50
1:G:70:GLU:C	1:G:71:GLN:CG	2.79	0.50
1:G:234:SER:O	1:G:242:ARG:NH1	2.45	0.50
1:G:495:ASN:HB3	1:G:553:ARG:NH1	2.27	0.50
1:G:597:HIS:ND1	1:G:597:HIS:N	2.60	0.50
1:G:641:VAL:HG11	1:G:704:GLY:HA2	1.93	0.50
1:A:680:THR:HG23	1:A:785:ALA:CB	2.42	0.50
1:A:2125:HIS:CE1	1:A:3724:ALA:HB1	2.47	0.50
1:A:3886:ARG:O	1:A:3890:LEU:HD13	2.12	0.50
1:A:4178:LEU:HD12	1:A:4178:LEU:O	2.11	0.50
1:A:4951:LYS:O	1:A:4955:GLU:HG2	2.11	0.50
1:C:725:HIS:ND1	1:C:725:HIS:O	2.44	0.50
1:C:1853:ILE:HG22	1:C:1854:PHE:HD1	1.67	0.50
1:C:2058:SER:O	1:C:2061:SER:OG	2.16	0.50
1:C:4055:VAL:HG13	1:C:4058:ILE:HD11	1.94	0.50
1:E:106:ALA:HA	1:E:149:THR:HA	1.93	0.50
1:E:603:LEU:HD23	1:E:606:LEU:HD12	1.94	0.50
1:E:619:ASP:O	1:E:623:GLU:HG2	2.12	0.50
1:E:821:LEU:HD13	1:E:1626:TRP:HH2	1.75	0.50
1:E:1450:VAL:HG13	1:E:1552:VAL:HG22	1.93	0.50
1:E:1944:GLU:HB2	1:E:2123:LEU:HD11	1.93	0.50
1:E:3699:HIS:HD2	1:E:3773:ARG:HA	1.77	0.50
1:E:3886:ARG:O	1:E:3890:LEU:HD13	2.12	0.50
1:G:603:LEU:HD23	1:G:606:LEU:HD12	1.94	0.50
1:G:619:ASP:O	1:G:623:GLU:HG2	2.12	0.50
1:G:721:LEU:HD23	1:G:767:VAL:HG11	1.79	0.50
1:G:4141:PHE:O	1:G:4145:VAL:HG23	2.12	0.50
1:G:4693:GLY:O	1:G:4695:ASP:O	2.30	0.50
1:A:234:SER:O	1:A:242:ARG:NH1	2.45	0.50
1:A:579:GLN:H	1:A:582:HIS:HD2	1.60	0.50
1:A:830:ARG:HH12	1:A:832:GLU:HB3	1.76	0.50
1:A:2503:VAL:HB	1:A:2556:LEU:HD22	1.93	0.50
1:A:3891:LEU:HD23	1:A:3899:PHE:HZ	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4181:ILE:O	1:A:4193:ILE:HG12	2.12	0.50
1:C:1944:GLU:HB2	1:C:2123:LEU:HD11	1.93	0.50
1:C:4877:ASP:HB3	1:E:4582:VAL:HG12	1.94	0.50
1:E:554:LEU:CD2	1:E:593:HIS:CE1	2.95	0.50
1:E:2182:ILE:HA	1:E:2185:ILE:HD12	1.93	0.50
1:E:4178:LEU:HD12	1:E:4178:LEU:O	2.11	0.50
1:E:4900:GLU:OE1	1:E:4900:GLU:HA	2.12	0.50
1:G:106:ALA:HA	1:G:149:THR:HA	1.93	0.50
1:G:716:PHE:CD2	1:G:717:ASP:CA	2.93	0.50
1:G:4851:TYR:CD2	1:G:4920:PHE:HD1	2.30	0.50
1:A:13:PHE:CD1	1:A:13:PHE:N	2.79	0.49
1:A:615:ARG:HH12	1:A:1678:ASN:HA	1.77	0.49
1:A:1579:MET:O	1:A:1582:SER:OG	2.15	0.49
1:C:488:LEU:HG	1:C:546:TRP:CH2	2.47	0.49
1:C:603:LEU:HD23	1:C:606:LEU:HD12	1.94	0.49
1:C:769:GLU:HG3	1:C:1475:THR:HG23	1.94	0.49
1:C:841:GLY:HA2	1:C:843:SER:N	2.23	0.49
1:C:1261:ASP:HA	1:C:1273:ALA:HA	1.93	0.49
1:C:1731:LEU:HA	1:C:1772:ARG:HH21	1.77	0.49
1:C:1966:VAL:HG21	1:C:3650:CYS:HA	1.94	0.49
1:C:3891:LEU:HD23	1:C:3899:PHE:HZ	1.77	0.49
1:C:4702:ASP:HA	1:C:4778:TRP:HE1	1.77	0.49
1:C:4720:VAL:O	1:C:4724:VAL:HG23	2.12	0.49
1:C:4888:TYR:O	1:C:4892:ARG:NH2	2.35	0.49
1:E:49:LEU:HD21	1:E:191:VAL:CG2	2.42	0.49
1:E:597:HIS:ND1	1:E:597:HIS:N	2.60	0.49
1:E:817:PRO:O	1:E:1027:LEU:HA	2.11	0.49
1:E:830:ARG:HH12	1:E:832:GLU:HB3	1.76	0.49
1:E:1134:LEU:O	1:E:1134:LEU:HD23	2.11	0.49
1:E:1448:VAL:HG11	1:E:1554:VAL:HG22	1.85	0.49
1:E:4181:ILE:O	1:E:4193:ILE:HG12	2.12	0.49
1:E:4861:LYS:HG3	1:E:4862:PHE:CD1	2.47	0.49
1:A:46:LEU:HD12	1:A:125:ARG:NH2	2.28	0.49
1:A:645:ARG:HG2	1:A:826:ILE:HG13	1.92	0.49
1:A:674:PHE:HE1	1:A:679:ALA:HB2	1.77	0.49
1:A:2822:THR:HG1	1:A:2938:THR:HG1	1.53	0.49
1:A:4973:HIS:ND1	1:A:4973:HIS:O	2.46	0.49
1:C:617:ASN:O	1:C:621:ILE:HG12	2.12	0.49
1:C:3699:HIS:HD2	1:C:3773:ARG:HA	1.77	0.49
1:C:4693:GLY:O	1:C:4695:ASP:O	2.30	0.49
1:E:495:ASN:HB3	1:E:553:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1943:LEU:HD21	1:E:2098:VAL:HG22	1.93	0.49
1:E:3669:PHE:CD1	1:E:3669:PHE:N	2.79	0.49
1:E:4035:VAL:HG12	1:E:4036:VAL:N	2.25	0.49
1:E:4904:PRO:CD	1:E:4913:ARG:HH11	2.24	0.49
1:G:680:THR:HG23	1:G:785:ALA:CB	2.42	0.49
1:G:681:HIS:O	1:G:682:LEU:HD13	2.13	0.49
1:G:1287:LEU:HB2	1:G:1554:VAL:HB	1.93	0.49
1:G:2182:ILE:HA	1:G:2185:ILE:HD12	1.93	0.49
1:A:49:LEU:HD21	1:A:191:VAL:CG2	2.42	0.49
1:A:619:ASP:O	1:A:623:GLU:HG2	2.12	0.49
1:A:4035:VAL:HG12	1:A:4036:VAL:N	2.25	0.49
1:A:4238:CYS:O	1:A:4242:ILE:HG13	2.12	0.49
2:B:40:ARG:C	2:B:43:ASN:H	2.14	0.49
1:C:13:PHE:CD1	1:C:13:PHE:N	2.79	0.49
1:C:821:LEU:HD13	1:C:1626:TRP:HH2	1.75	0.49
1:C:1288:PHE:CE2	1:C:1462:HIS:HA	2.43	0.49
1:C:3886:ARG:O	1:C:3890:LEU:HD13	2.12	0.49
1:E:579:GLN:H	1:E:582:HIS:HD2	1.60	0.49
1:E:680:THR:HG23	1:E:785:ALA:CB	2.42	0.49
1:E:681:HIS:O	1:E:682:LEU:HD13	2.13	0.49
2:F:40:ARG:C	2:F:43:ASN:H	2.14	0.49
1:G:817:PRO:O	1:G:1027:LEU:HA	2.11	0.49
1:G:835:ARG:NH2	1:G:1211:LEU:HD13	2.24	0.49
1:G:4181:ILE:O	1:G:4193:ILE:HG12	2.12	0.49
1:G:4687:TYR:CD1	1:G:4687:TYR:N	2.80	0.49
1:G:4961:CYS:HG	1:G:4983:HIS:CD2	2.30	0.49
1:A:1101:ARG:HB2	1:A:1193:SER:OG	2.12	0.49
1:A:1261:ASP:HA	1:A:1273:ALA:HA	1.93	0.49
1:A:1475:THR:HA	1:A:1486:SER:HA	1.94	0.49
1:A:4900:GLU:OE1	1:A:4900:GLU:HA	2.12	0.49
1:C:554:LEU:CD2	1:C:593:HIS:CE1	2.95	0.49
1:C:579:GLN:H	1:C:582:HIS:HD2	1.60	0.49
1:C:1519:LEU:HD12	1:C:1526:LEU:O	2.12	0.49
1:E:244:LEU:HD22	1:E:375:LYS:HE2	1.95	0.49
1:E:769:GLU:HG3	1:E:1475:THR:HG23	1.94	0.49
1:E:1276:THR:O	1:E:1277:TRP:HD1	1.94	0.49
1:E:4141:PHE:O	1:E:4145:VAL:HG23	2.12	0.49
1:G:229:GLU:HA	1:G:249:GLY:HA2	1.94	0.49
1:G:1101:ARG:HB2	1:G:1193:SER:OG	2.12	0.49
1:G:1240:LYS:O	1:G:1607:ARG:HA	2.13	0.49
1:G:3670:GLU:OE2	1:G:3731:LYS:HD2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4055:VAL:HG13	1:G:4058:ILE:HD11	1.94	0.49
1:A:515:TRP:HH2	1:A:555:GLU:HG3	1.65	0.49
1:A:3892:CYS:HB2	1:A:3967:GLU:HG3	1.95	0.49
1:A:4020:GLN:HE21	1:A:4024:VAL:HG13	1.77	0.49
1:C:244:LEU:HD22	1:C:375:LYS:HE2	1.95	0.49
1:C:597:HIS:ND1	1:C:597:HIS:N	2.60	0.49
1:C:2125:HIS:CE1	1:C:3724:ALA:HB1	2.47	0.49
1:E:2155:LEU:HD21	1:E:2198:MET:SD	2.53	0.49
1:E:4851:TYR:CD2	1:E:4920:PHE:HD1	2.30	0.49
1:E:4877:ASP:HB3	1:G:4582:VAL:HG12	1.94	0.49
1:E:4973:HIS:ND1	1:E:4973:HIS:O	2.46	0.49
1:G:49:LEU:HD21	1:G:191:VAL:CG2	2.42	0.49
1:G:579:GLN:H	1:G:582:HIS:HD2	1.60	0.49
1:G:617:ASN:O	1:G:621:ILE:HG12	2.12	0.49
1:G:858:THR:HG21	1:G:991:ASN:HD21	1.78	0.49
1:A:1731:LEU:HA	1:A:1772:ARG:HH21	1.77	0.49
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.12	0.49
1:A:2155:LEU:HD21	1:A:2198:MET:SD	2.53	0.49
1:A:4877:ASP:HB3	1:C:4582:VAL:HG12	1.94	0.49
1:C:4680:LYS:C	1:C:4684:ASP:HB2	2.32	0.49
1:C:4687:TYR:CD1	1:C:4687:TYR:N	2.80	0.49
1:E:156:GLN:HE22	1:G:225:GLY:C	2.16	0.49
1:E:793:LEU:HD22	1:E:811:CYS:HB3	1.92	0.49
1:E:1240:LYS:O	1:E:1607:ARG:HA	2.13	0.49
1:E:4181:ILE:CD1	1:E:4991:PHE:CD1	2.95	0.49
1:E:4693:GLY:O	1:E:4695:ASP:O	2.30	0.49
1:E:4720:VAL:O	1:E:4724:VAL:HG23	2.12	0.49
1:G:37:LEU:HD11	1:G:47:CYS:HB3	1.93	0.49
1:G:554:LEU:CD1	1:G:593:HIS:HE2	2.25	0.49
1:G:1519:LEU:HD12	1:G:1526:LEU:O	2.12	0.49
1:G:1743:ARG:CG	1:G:1963:GLU:CG	2.86	0.49
1:G:2125:HIS:CE1	1:G:3724:ALA:HB1	2.47	0.49
1:G:3886:ARG:O	1:G:3890:LEU:HD13	2.12	0.49
1:A:454:PRO:HG2	1:A:531:ARG:HH11	1.78	0.49
1:A:592:LYS:HE3	1:A:1596:GLU:OE1	2.13	0.49
1:A:641:VAL:HG11	1:A:704:GLY:HA2	1.93	0.49
1:A:743:VAL:N	1:A:760:ASN:OD1	2.45	0.49
1:A:1966:VAL:HG21	1:A:3650:CYS:HA	1.94	0.49
1:A:4664:LEU:O	1:A:4667:PRO:HD2	2.13	0.49
1:A:4693:GLY:O	1:A:4695:ASP:O	2.30	0.49
1:C:234:SER:O	1:C:242:ARG:NH1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:680:THR:HG23	1:C:785:ALA:CB	2.42	0.49
1:C:681:HIS:O	1:C:682:LEU:HD13	2.13	0.49
1:C:736:HIS:NE2	1:C:739:ALA:CB	2.76	0.49
1:C:1739:THR:O	1:C:1742:THR:OG1	2.17	0.49
1:C:3669:PHE:CD1	1:C:3669:PHE:N	2.79	0.49
1:C:4059:LEU:HA	1:C:4062:PHE:HD2	1.78	0.49
1:C:4688:ILE:HG22	1:C:4732:PHE:HE2	1.78	0.49
1:C:4900:GLU:OE1	1:C:4900:GLU:HA	2.12	0.49
1:E:225:GLY:HA2	1:E:389:PHE:HE2	1.78	0.49
1:E:229:GLU:HA	1:E:249:GLY:HA2	1.94	0.49
1:E:1475:THR:HA	1:E:1486:SER:HA	1.94	0.49
1:E:4181:ILE:HG23	1:E:4195:PHE:CE2	2.48	0.49
1:G:46:LEU:HD12	1:G:125:ARG:NH2	2.28	0.49
1:G:454:PRO:HG2	1:G:531:ARG:HH11	1.78	0.49
1:G:600:LEU:CD2	1:G:1666:THR:N	2.76	0.49
1:G:4181:ILE:CD1	1:G:4991:PHE:CD1	2.95	0.49
1:G:4861:LYS:HG3	1:G:4862:PHE:CD1	2.47	0.49
1:A:1581:LEU:HD13	1:A:1594:ARG:C	2.33	0.49
1:A:1944:GLU:HB2	1:A:2123:LEU:HD11	1.93	0.49
1:A:2198:MET:HE1	1:A:2203:MET:HE1	1.91	0.49
1:C:280:LEU:N	1:C:314:PHE:O	2.42	0.49
1:C:619:ASP:O	1:C:623:GLU:HG2	2.12	0.49
1:C:842:PRO:HD2	1:C:1196:PRO:HA	1.94	0.49
1:C:1143:TRP:HB2	1:C:1147:ASP:HB2	1.95	0.49
1:C:1297:PHE:HB2	1:C:1545:ASN:CA	2.38	0.49
1:C:2128:TYR:O	1:C:3669:PHE:CD2	2.62	0.49
1:C:2155:LEU:HD21	1:C:2198:MET:SD	2.53	0.49
1:C:2198:MET:HB3	1:C:2203:MET:SD	2.53	0.49
1:E:454:PRO:HG2	1:E:531:ARG:HH11	1.78	0.49
1:E:4702:ASP:HA	1:E:4778:TRP:HE1	1.77	0.49
1:G:769:GLU:HG3	1:G:1475:THR:HG23	1.94	0.49
1:G:4059:LEU:HA	1:G:4062:PHE:HD2	1.78	0.49
1:G:4711:PHE:HB3	1:G:4712:PRO:HD3	1.95	0.49
1:G:4973:HIS:ND1	1:G:4973:HIS:O	2.46	0.49
1:A:225:GLY:C	1:G:156:GLN:HE22	2.16	0.49
1:A:1450:VAL:HG13	1:A:1552:VAL:HG22	1.93	0.49
1:A:2788:HIS:CG	1:A:2789:PRO:HD2	2.48	0.49
1:A:4141:PHE:O	1:A:4145:VAL:HG23	2.12	0.49
1:A:4688:ILE:HG22	1:A:4732:PHE:HE2	1.78	0.49
1:C:3722:TYR:OH	1:C:3797:THR:HG22	2.13	0.49
1:C:4077:PHE:CE1	1:C:4088:ILE:HG21	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4178:LEU:HD12	1:C:4178:LEU:O	2.11	0.49
1:C:4851:TYR:CD2	1:C:4920:PHE:HD1	2.30	0.49
1:E:37:LEU:HD11	1:E:47:CYS:HB3	1.93	0.49
1:E:488:LEU:HG	1:E:546:TRP:CH2	2.47	0.49
1:E:617:ASN:O	1:E:621:ILE:HG12	2.12	0.49
1:E:1101:ARG:HB2	1:E:1193:SER:OG	2.12	0.49
1:E:3891:LEU:HD23	1:E:3899:PHE:HZ	1.77	0.49
1:E:4059:LEU:HA	1:E:4062:PHE:HD2	1.78	0.49
1:E:4901:ILE:HD13	1:E:4913:ARG:NH2	2.28	0.49
1:G:830:ARG:HH12	1:G:832:GLU:HB3	1.76	0.49
1:G:1450:VAL:HG13	1:G:1552:VAL:HG22	1.93	0.49
1:G:1731:LEU:HA	1:G:1772:ARG:HH21	1.77	0.49
1:G:2133:GLU:HG3	1:G:2136:ARG:NE	2.27	0.49
1:G:2788:HIS:CG	1:G:2789:PRO:HD2	2.48	0.49
1:G:3766:GLN:HG3	1:G:3769:ARG:NH2	2.28	0.49
1:G:3892:CYS:HB2	1:G:3967:GLU:HG3	1.95	0.49
1:A:244:LEU:HD22	1:A:375:LYS:HE2	1.95	0.49
1:A:4688:ILE:HD13	1:A:4688:ILE:N	2.28	0.49
1:A:4851:TYR:CD2	1:A:4920:PHE:HD1	2.30	0.49
1:A:4861:LYS:HG3	1:A:4862:PHE:CD1	2.47	0.49
1:C:156:GLN:HE22	1:E:225:GLY:C	2.16	0.49
1:C:266:ARG:HH11	1:C:330:ASP:HB2	1.78	0.49
1:C:291:LEU:HG	1:C:314:PHE:HE2	1.78	0.49
1:C:345:LEU:HD23	1:C:389:PHE:HB3	1.95	0.49
1:C:454:PRO:HG2	1:C:531:ARG:HH11	1.78	0.49
1:C:495:ASN:HB3	1:C:553:ARG:NH1	2.27	0.49
1:C:515:TRP:HH2	1:C:555:GLU:HG3	1.65	0.49
1:C:743:VAL:N	1:C:760:ASN:OD1	2.45	0.49
1:C:830:ARG:HH12	1:C:832:GLU:HB3	1.76	0.49
1:C:4020:GLN:HE21	1:C:4024:VAL:HG13	1.77	0.49
1:C:4141:PHE:O	1:C:4145:VAL:HG23	2.12	0.49
1:C:4181:ILE:O	1:C:4193:ILE:HG12	2.12	0.49
1:E:345:LEU:HD23	1:E:389:PHE:HB3	1.95	0.49
1:E:681:HIS:C	1:E:681:HIS:CD2	2.86	0.49
1:E:736:HIS:NE2	1:E:739:ALA:CB	2.76	0.49
1:E:1641:ILE:HG13	1:E:1643:GLU:HG2	1.95	0.49
1:G:628:GLY:C	1:G:630:GLU:H	2.15	0.49
1:G:2198:MET:HB3	1:G:2203:MET:SD	2.53	0.49
1:A:793:LEU:HD22	1:A:811:CYS:HB3	1.92	0.48
1:A:858:THR:HG21	1:A:991:ASN:HD21	1.78	0.48
1:A:1206:GLN:H	1:A:1227:ALA:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1438:ARG:HG3	1:A:1511:LEU:HD23	1.95	0.48
1:A:3669:PHE:CD1	1:A:3669:PHE:N	2.79	0.48
1:A:4077:PHE:CE1	1:A:4088:ILE:HG21	2.48	0.48
1:A:4680:LYS:C	1:A:4684:ASP:HB2	2.32	0.48
1:A:4901:ILE:HD13	1:A:4913:ARG:NH2	2.28	0.48
1:C:681:HIS:CB	1:C:716:PHE:CD1	2.96	0.48
1:C:1475:THR:HA	1:C:1486:SER:HA	1.94	0.48
1:C:1581:LEU:HD13	1:C:1594:ARG:C	2.33	0.48
1:C:1727:ARG:HD2	1:C:1772:ARG:HD3	1.95	0.48
1:C:4181:ILE:HG23	1:C:4195:PHE:CE2	2.48	0.48
2:D:40:ARG:C	2:D:43:ASN:H	2.14	0.48
1:E:125:ARG:HB3	1:E:134:ASP:OD1	2.09	0.48
1:E:255:HIS:CG	1:E:480:GLU:HG2	2.48	0.48
1:E:666:VAL:HG21	1:E:684:VAL:HG11	1.95	0.48
1:E:2788:HIS:CG	1:E:2789:PRO:HD2	2.48	0.48
1:E:3722:TYR:OH	1:E:3797:THR:HG22	2.13	0.48
1:E:3844:LEU:HD12	1:E:3933:PHE:HA	1.95	0.48
1:E:4688:ILE:HG22	1:E:4732:PHE:HE2	1.78	0.48
1:G:39:ALA:HB2	1:G:47:CYS:SG	2.53	0.48
1:G:225:GLY:HA2	1:G:389:PHE:HE2	1.78	0.48
1:G:244:LEU:HD22	1:G:375:LYS:HE2	1.95	0.48
1:G:255:HIS:CG	1:G:480:GLU:HG2	2.48	0.48
1:G:266:ARG:HH11	1:G:330:ASP:HB2	1.78	0.48
1:G:615:ARG:HH12	1:G:1678:ASN:HA	1.77	0.48
1:G:674:PHE:HE1	1:G:679:ALA:HB2	1.77	0.48
1:G:681:HIS:C	1:G:681:HIS:CD2	2.86	0.48
1:G:3793:MET:O	1:G:3797:THR:HG23	2.13	0.48
1:G:3891:LEU:HD23	1:G:3899:PHE:HZ	1.77	0.48
1:A:225:GLY:HA2	1:A:389:PHE:HE2	1.78	0.48
1:A:291:LEU:HG	1:A:314:PHE:HE2	1.78	0.48
1:A:495:ASN:HB3	1:A:553:ARG:NH1	2.27	0.48
1:A:681:HIS:O	1:A:682:LEU:HD13	2.13	0.48
1:A:769:GLU:HG3	1:A:1475:THR:HG23	1.94	0.48
1:A:1240:LYS:O	1:A:1607:ARG:HA	2.13	0.48
1:A:3722:TYR:OH	1:A:3797:THR:HG22	2.13	0.48
1:C:46:LEU:HD12	1:C:125:ARG:NH2	2.28	0.48
1:C:615:ARG:HH12	1:C:1678:ASN:HA	1.77	0.48
1:C:1206:GLN:H	1:C:1227:ALA:HB3	1.78	0.48
1:C:1438:ARG:HG3	1:C:1511:LEU:HD23	1.95	0.48
1:C:1729:SER:O	1:C:1732:SER:OG	2.23	0.48
1:C:1858:ASP:O	1:C:1862:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1937:LEU:HB2	1:C:2116:LEU:HD12	1.95	0.48
1:C:1943:LEU:HD21	1:C:2098:VAL:HG22	1.93	0.48
1:C:4688:ILE:HD13	1:C:4688:ILE:N	2.28	0.48
1:E:4055:VAL:HG13	1:E:4058:ILE:HD11	1.94	0.48
1:E:4077:PHE:CE1	1:E:4088:ILE:HG21	2.48	0.48
1:E:4680:LYS:O	1:E:4684:ASP:CB	2.59	0.48
1:G:488:LEU:HG	1:G:546:TRP:CH2	2.47	0.48
1:G:2128:TYR:O	1:G:3669:PHE:CD2	2.62	0.48
1:G:2210:VAL:O	1:G:2214:VAL:HG23	2.14	0.48
1:G:2870:GLU:OE2	1:G:2939:ARG:NE	2.42	0.48
1:G:4020:GLN:HE21	1:G:4024:VAL:HG13	1.77	0.48
1:A:533:ASN:HB2	1:A:536:ASN:ND2	2.23	0.48
1:A:554:LEU:CD2	1:A:593:HIS:CE1	2.95	0.48
1:A:592:LYS:HE3	1:A:1596:GLU:CD	2.31	0.48
1:A:681:HIS:C	1:A:681:HIS:CD2	2.86	0.48
1:A:721:LEU:HB2	1:A:768:PHE:CZ	2.49	0.48
1:A:736:HIS:NE2	1:A:739:ALA:CB	2.76	0.48
1:A:1858:ASP:O	1:A:1862:ILE:HG12	2.14	0.48
1:A:1937:LEU:HB2	1:A:2116:LEU:HD12	1.95	0.48
1:A:3699:HIS:HD2	1:A:3773:ARG:HA	1.77	0.48
1:A:4059:LEU:HA	1:A:4062:PHE:HD2	1.78	0.48
1:A:4582:VAL:HG12	1:G:4877:ASP:HB3	1.94	0.48
1:C:1518:CYS:HB3	1:C:1528:THR:OG1	2.13	0.48
1:E:592:LYS:HE3	1:E:1596:GLU:CD	2.31	0.48
1:E:600:LEU:CD2	1:E:1666:THR:N	2.76	0.48
1:E:767:VAL:HA	1:E:1475:THR:O	2.14	0.48
1:E:4020:GLN:HE21	1:E:4024:VAL:HG13	1.77	0.48
1:E:4961:CYS:HG	1:E:4983:HIS:CD2	2.30	0.48
1:G:345:LEU:HD23	1:G:389:PHE:HB3	1.95	0.48
1:G:736:HIS:NE2	1:G:739:ALA:CB	2.76	0.48
1:G:4181:ILE:HG23	1:G:4195:PHE:CE2	2.48	0.48
1:G:4664:LEU:O	1:G:4667:PRO:HD2	2.13	0.48
1:G:4688:ILE:HG22	1:G:4732:PHE:HE2	1.78	0.48
1:A:488:LEU:HG	1:A:546:TRP:CH2	2.47	0.48
1:A:628:GLY:C	1:A:630:GLU:H	2.15	0.48
1:A:842:PRO:HD2	1:A:1196:PRO:HA	1.94	0.48
1:A:1143:TRP:HB2	1:A:1147:ASP:HB2	1.95	0.48
1:A:1161:ILE:HG23	1:A:1168:VAL:HG13	1.96	0.48
1:A:4083:ASP:OD2	1:A:4087:LEU:CA	2.61	0.48
1:A:4157:ASP:O	1:A:4161:ARG:N	2.41	0.48
1:C:721:LEU:HB2	1:C:768:PHE:CZ	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1641:ILE:HG13	1:C:1643:GLU:HG2	1.95	0.48
1:C:1715:LEU:HD22	1:C:1844:LEU:HD11	1.96	0.48
1:C:3766:GLN:HG3	1:C:3769:ARG:NH2	2.28	0.48
1:C:4973:HIS:ND1	1:C:4973:HIS:O	2.46	0.48
1:E:842:PRO:HD2	1:E:1196:PRO:HA	1.94	0.48
1:E:1438:ARG:HG3	1:E:1511:LEU:HD23	1.95	0.48
1:E:1519:LEU:HD12	1:E:1526:LEU:O	2.12	0.48
1:E:2128:TYR:O	1:E:3669:PHE:CD2	2.62	0.48
1:E:2198:MET:HB3	1:E:2203:MET:SD	2.53	0.48
1:E:2210:VAL:O	1:E:2214:VAL:HG23	2.14	0.48
1:E:3793:MET:O	1:E:3797:THR:HG23	2.13	0.48
1:E:4904:PRO:CB	1:E:4910:GLU:HG3	2.35	0.48
1:G:681:HIS:CB	1:G:716:PHE:CD1	2.96	0.48
1:G:767:VAL:HA	1:G:1475:THR:O	2.14	0.48
1:G:3713:LYS:O	1:G:3714:SER:OG	2.29	0.48
1:G:4083:ASP:OD2	1:G:4087:LEU:CA	2.61	0.48
1:A:266:ARG:HH11	1:A:330:ASP:HB2	1.78	0.48
1:A:345:LEU:HD23	1:A:389:PHE:HB3	1.95	0.48
1:A:1518:CYS:HB3	1:A:1528:THR:OG1	2.13	0.48
1:A:1519:LEU:HD12	1:A:1526:LEU:O	2.12	0.48
1:A:3713:LYS:O	1:A:3714:SER:OG	2.29	0.48
1:A:3766:GLN:HG3	1:A:3769:ARG:NH2	2.28	0.48
1:A:4182:GLU:CD	1:A:4982:GLU:OE1	2.52	0.48
1:C:255:HIS:CG	1:C:480:GLU:HG2	2.48	0.48
1:C:600:LEU:CD2	1:C:1666:THR:N	2.76	0.48
1:C:681:HIS:C	1:C:681:HIS:CD2	2.86	0.48
1:C:1963:GLU:HA	1:C:1963:GLU:OE2	2.14	0.48
1:C:2144:ILE:HD13	1:C:2152:THR:HG21	1.96	0.48
1:C:2870:GLU:OE2	1:C:2939:ARG:NE	2.42	0.48
1:E:266:ARG:HH11	1:E:330:ASP:HB2	1.78	0.48
1:E:971:ASP:OD2	1:E:974:HIS:N	2.46	0.48
1:E:1093:GLU:HB2	1:E:1201:HIS:HB3	1.95	0.48
1:E:1581:LEU:HD13	1:E:1594:ARG:C	2.33	0.48
1:E:3766:GLN:HG3	1:E:3769:ARG:NH2	2.28	0.48
1:E:4003:LEU:O	1:E:4009:GLN:HB3	2.14	0.48
1:G:665:GLU:OE2	1:G:802:PHE:N	2.46	0.48
1:G:1093:GLU:HB2	1:G:1201:HIS:HB3	1.95	0.48
1:G:1966:VAL:HG21	1:G:3650:CYS:HA	1.94	0.48
1:G:2155:LEU:HD21	1:G:2198:MET:SD	2.53	0.48
1:G:3722:TYR:OH	1:G:3797:THR:HG22	2.13	0.48
1:A:156:GLN:HE22	1:C:225:GLY:C	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:597:HIS:ND1	1:A:597:HIS:N	2.60	0.48
1:A:666:VAL:HG21	1:A:684:VAL:HG11	1.95	0.48
1:A:1093:GLU:HB2	1:A:1201:HIS:HB3	1.95	0.48
1:A:2144:ILE:HD13	1:A:2152:THR:HG21	1.96	0.48
1:A:2198:MET:HB3	1:A:2203:MET:SD	2.53	0.48
1:A:3793:MET:O	1:A:3797:THR:HG23	2.13	0.48
1:A:4711:PHE:HB3	1:A:4712:PRO:HD3	1.95	0.48
2:B:36:PHE:HZ	2:B:99:PHE:HE1	1.61	0.48
1:C:110:ARG:HG2	1:C:111:HIS:O	2.14	0.48
1:C:635:THR:HG23	1:C:1693:GLN:HE22	1.79	0.48
1:C:666:VAL:HG21	1:C:684:VAL:HG11	1.95	0.48
1:C:858:THR:HG21	1:C:991:ASN:HD21	1.78	0.48
1:C:971:ASP:OD2	1:C:974:HIS:N	2.46	0.48
1:C:1240:LYS:O	1:C:1607:ARG:HA	2.13	0.48
1:C:3844:LEU:HD12	1:C:3933:PHE:HA	1.95	0.48
1:C:3957:VAL:O	1:C:3961:VAL:HG23	2.13	0.48
1:E:46:LEU:HD12	1:E:125:ARG:NH2	2.28	0.48
1:E:234:SER:O	1:E:242:ARG:NH1	2.45	0.48
1:E:681:HIS:CB	1:E:716:PHE:CD1	2.96	0.48
1:E:1518:CYS:HB3	1:E:1528:THR:OG1	2.13	0.48
1:E:1727:ARG:HD2	1:E:1772:ARG:HD3	1.95	0.48
1:E:1966:VAL:HG21	1:E:3650:CYS:HA	1.94	0.48
1:E:4083:ASP:OD2	1:E:4087:LEU:CB	2.62	0.48
2:F:36:PHE:HZ	2:F:99:PHE:HE1	1.61	0.48
1:G:971:ASP:OD2	1:G:974:HIS:N	2.46	0.48
1:G:1161:ILE:HG23	1:G:1168:VAL:HG13	1.96	0.48
1:G:1297:PHE:HB2	1:G:1545:ASN:CA	2.38	0.48
1:G:1867:GLU:HG2	1:G:2097:LEU:HD22	1.96	0.48
1:A:595:ARG:HH22	1:A:1641:ILE:HD13	1.78	0.48
1:A:1639:LEU:HG	1:A:1648:MET:O	2.14	0.48
1:A:1662:PHE:O	1:A:1666:THR:HG23	2.14	0.48
1:A:2210:VAL:O	1:A:2214:VAL:HG23	2.14	0.48
1:A:2257:LEU:HD21	1:A:2275:VAL:HB	1.96	0.48
1:A:3951:PHE:HD2	1:A:4012:LEU:HD21	1.79	0.48
1:C:45:ARG:NH2	1:C:116:MET:HE1	2.17	0.48
1:C:1720:LEU:HD22	1:C:1851:MET:SD	2.54	0.48
1:C:2257:LEU:HD21	1:C:2275:VAL:HB	1.96	0.48
1:C:4159:ARG:HG3	1:C:4160:LEU:N	2.29	0.48
1:E:1283:LEU:HD23	1:E:1285:GLU:H	1.79	0.48
1:E:1743:ARG:CB	1:E:1963:GLU:CG	2.92	0.48
1:E:3901:ASN:O	1:E:3905:THR:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:537:CYS:SG	1:G:567:VAL:HA	2.54	0.48
1:G:1283:LEU:HD23	1:G:1285:GLU:H	1.79	0.48
1:G:1581:LEU:HD13	1:G:1594:ARG:C	2.33	0.48
1:G:2166:LEU:HG	1:G:2209:GLU:OE1	2.14	0.48
1:G:4159:ARG:HG3	1:G:4160:LEU:N	2.29	0.48
1:A:384:MET:HE1	1:G:167:ASP:OD1	2.06	0.48
1:A:600:LEU:CD2	1:A:1666:THR:N	2.76	0.48
1:A:971:ASP:OD2	1:A:974:HIS:N	2.46	0.48
1:A:1283:LEU:HD23	1:A:1285:GLU:H	1.79	0.48
1:A:1720:LEU:HD22	1:A:1851:MET:SD	2.54	0.48
1:A:2166:LEU:HG	1:A:2209:GLU:OE1	2.14	0.48
1:A:3957:VAL:O	1:A:3961:VAL:HG23	2.13	0.48
1:C:1662:PHE:O	1:C:1666:THR:HG23	2.14	0.48
1:C:1867:GLU:HG2	1:C:2097:LEU:HD22	1.96	0.48
1:C:2788:HIS:CG	1:C:2789:PRO:HD2	2.48	0.48
1:C:4778:TRP:O	1:C:4782:VAL:HG23	2.14	0.48
1:E:39:ALA:HB2	1:E:47:CYS:SG	2.53	0.48
1:E:615:ARG:HH12	1:E:1678:ASN:HA	1.77	0.48
1:E:1161:ILE:HG23	1:E:1168:VAL:HG13	1.96	0.48
1:E:4664:LEU:O	1:E:4667:PRO:HD2	2.13	0.48
1:E:4961:CYS:SG	1:E:4983:HIS:NE2	2.86	0.48
1:G:183:SER:O	1:G:190:GLN:N	2.34	0.48
1:G:721:LEU:HB2	1:G:768:PHE:CZ	2.49	0.48
1:G:1206:GLN:H	1:G:1227:ALA:HB3	1.78	0.48
1:G:1475:THR:HA	1:G:1486:SER:HA	1.94	0.48
1:G:3901:ASN:O	1:G:3905:THR:HG22	2.14	0.48
1:G:3957:VAL:O	1:G:3961:VAL:HG23	2.13	0.48
1:G:4961:CYS:SG	1:G:4983:HIS:NE2	2.86	0.48
1:A:39:ALA:HB2	1:A:47:CYS:SG	2.53	0.48
1:A:750:LEU:O	1:A:751:SER:OG	2.23	0.48
1:A:1715:LEU:HD22	1:A:1844:LEU:HD11	1.96	0.48
1:A:1867:GLU:HG2	1:A:2097:LEU:HD22	1.96	0.48
1:A:1963:GLU:HA	1:A:1963:GLU:OE2	2.14	0.48
1:C:767:VAL:HA	1:C:1475:THR:O	2.14	0.48
1:C:1232:ARG:HE	1:C:1701:ALA:HB3	1.79	0.48
1:C:1743:ARG:CB	1:C:1963:GLU:CG	2.92	0.48
1:C:2210:VAL:O	1:C:2214:VAL:HG23	2.14	0.48
1:C:4711:PHE:HB3	1:C:4712:PRO:HD3	1.95	0.48
1:E:628:GLY:C	1:E:630:GLU:H	2.15	0.48
1:E:1206:GLN:H	1:E:1227:ALA:HB3	1.78	0.48
1:E:1720:LEU:HD22	1:E:1851:MET:SD	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4049:VAL:CG2	1:E:4159:ARG:HD3	2.42	0.48
1:G:1438:ARG:HG3	1:G:1511:LEU:HD23	1.95	0.48
1:G:1641:ILE:HG13	1:G:1643:GLU:HG2	1.95	0.48
1:G:1963:GLU:HA	1:G:1963:GLU:OE2	2.14	0.48
1:G:2066:LEU:HD13	1:G:2069:THR:OG1	2.14	0.48
1:G:3878:ASP:O	1:G:3881:THR:OG1	2.18	0.48
1:G:4179:GLY:O	1:G:4195:PHE:CE2	2.67	0.48
1:A:519:VAL:CG1	1:A:555:GLU:OE1	2.62	0.48
1:A:537:CYS:SG	1:A:567:VAL:HA	2.54	0.48
1:A:767:VAL:HA	1:A:1475:THR:O	2.14	0.48
1:A:1853:ILE:CG2	1:A:1854:PHE:CE1	2.97	0.48
1:A:3702:VAL:HG13	1:A:3778:MET:SD	2.54	0.48
1:A:4083:ASP:OD2	1:A:4087:LEU:HB2	2.14	0.48
1:A:4159:ARG:HG3	1:A:4160:LEU:N	2.29	0.48
1:A:4181:ILE:HB	1:A:4988:TYR:CE1	2.49	0.48
1:C:1161:ILE:HG23	1:C:1168:VAL:HG13	1.96	0.48
1:C:2166:LEU:HG	1:C:2209:GLU:OE1	2.14	0.48
1:C:2248:ARG:HG2	1:C:2286:LEU:HD11	1.96	0.48
1:C:3647:HIS:CE1	1:C:3648:ARG:HG2	2.49	0.48
1:C:3916:ILE:HD13	1:C:3976:ASN:OD1	2.14	0.48
1:C:4083:ASP:OD2	1:C:4087:LEU:CA	2.61	0.48
1:E:291:LEU:HG	1:E:314:PHE:HE2	1.78	0.48
1:E:317:ARG:NH2	1:E:321:GLU:O	2.47	0.48
1:E:358:THR:OG1	1:E:359:TYR:N	2.46	0.48
1:E:595:ARG:HH22	1:E:1641:ILE:HD13	1.78	0.48
1:E:683:ARG:NH1	1:E:722:TRP:HB3	2.29	0.48
1:E:858:THR:HG21	1:E:991:ASN:HD21	1.78	0.48
1:E:2855:TYR:CD2	1:E:2857:PRO:HD3	2.49	0.48
1:E:3647:HIS:CE1	1:E:3648:ARG:HG2	2.49	0.48
1:E:4159:ARG:HG3	1:E:4160:LEU:N	2.29	0.48
1:G:291:LEU:HG	1:G:314:PHE:HE2	1.78	0.48
1:G:666:VAL:HG21	1:G:684:VAL:HG11	1.95	0.48
1:G:842:PRO:HD2	1:G:1196:PRO:HA	1.94	0.48
1:G:1733:GLU:CD	1:G:2163:ARG:HH22	2.17	0.48
1:G:4181:ILE:HB	1:G:4988:TYR:CE1	2.49	0.48
1:A:1257:VAL:HA	1:A:1277:TRP:CE2	2.50	0.47
1:A:1733:GLU:CD	1:A:2163:ARG:HH22	2.17	0.47
1:A:3901:ASN:O	1:A:3905:THR:HG22	2.14	0.47
1:A:3974:THR:HG23	1:A:3975:GLY:N	2.29	0.47
1:C:1093:GLU:HB2	1:C:1201:HIS:HB3	1.95	0.47
1:C:1158:ASN:O	1:C:1181:GLU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3702:VAL:HG13	1:C:3778:MET:SD	2.54	0.47
1:C:3793:MET:O	1:C:3797:THR:HG23	2.13	0.47
1:C:3805:LEU:HB2	1:C:3890:LEU:HD23	1.96	0.47
1:C:3974:THR:HG23	1:C:3975:GLY:N	2.29	0.47
1:C:4003:LEU:O	1:C:4009:GLN:HB3	2.14	0.47
1:C:4664:LEU:O	1:C:4667:PRO:HD2	2.13	0.47
2:D:36:PHE:HZ	2:D:99:PHE:HE1	1.61	0.47
1:E:520:ASN:CG	1:E:556:ALA:HB1	2.35	0.47
1:E:649:PHE:CD1	1:E:778:PHE:HB3	2.49	0.47
1:E:721:LEU:HB2	1:E:768:PHE:CZ	2.49	0.47
1:E:1143:TRP:HB2	1:E:1147:ASP:HB2	1.95	0.47
1:E:1766:GLY:CA	1:E:1856:ASP:OD1	2.62	0.47
1:E:1867:GLU:HG2	1:E:2097:LEU:HD22	1.96	0.47
1:E:2248:ARG:HG2	1:E:2286:LEU:HD11	1.96	0.47
1:E:3702:VAL:HG13	1:E:3778:MET:SD	2.54	0.47
1:E:3805:LEU:HB2	1:E:3890:LEU:HD23	1.96	0.47
1:E:3916:ILE:HD13	1:E:3976:ASN:OD1	2.14	0.47
1:E:4182:GLU:CD	1:E:4982:GLU:OE1	2.52	0.47
1:E:4187:SER:CB	1:E:4189:ARG:NE	2.77	0.47
1:E:4778:TRP:O	1:E:4782:VAL:HG23	2.14	0.47
1:G:682:LEU:HD22	1:G:787:VAL:HG11	1.86	0.47
1:G:683:ARG:NH1	1:G:722:TRP:HB3	2.29	0.47
1:G:1858:ASP:O	1:G:1862:ILE:HG12	2.14	0.47
1:G:3916:ILE:HD13	1:G:3976:ASN:OD1	2.14	0.47
1:G:4083:ASP:OD2	1:G:4087:LEU:CB	2.62	0.47
1:A:255:HIS:CG	1:A:480:GLU:HG2	2.48	0.47
1:A:317:ARG:NH2	1:A:321:GLU:O	2.47	0.47
1:A:635:THR:HG23	1:A:1693:GLN:HE22	1.79	0.47
1:A:681:HIS:CB	1:A:716:PHE:CD1	2.96	0.47
1:A:1207:ASP:O	1:A:1210:SER:OG	2.24	0.47
1:A:2498:HIS:O	1:A:2502:MET:HG2	2.15	0.47
1:A:3926:LEU:O	1:A:3930:ILE:HG12	2.15	0.47
1:A:4003:LEU:O	1:A:4009:GLN:HB3	2.14	0.47
1:A:4578:LEU:O	1:G:4879:MET:HB3	2.14	0.47
1:C:39:ALA:HB2	1:C:47:CYS:SG	2.53	0.47
1:C:225:GLY:HA2	1:C:389:PHE:HE2	1.78	0.47
1:C:1283:LEU:HD23	1:C:1285:GLU:H	1.79	0.47
1:C:2742:THR:O	1:C:2814:LYS:HD3	2.14	0.47
1:C:3926:LEU:O	1:C:3930:ILE:HG12	2.15	0.47
1:C:4083:ASP:OD2	1:C:4087:LEU:CB	2.62	0.47
1:E:635:THR:HG23	1:E:1693:GLN:HE22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1963:GLU:HA	1:E:1963:GLU:OE2	2.14	0.47
1:E:2742:THR:O	1:E:2814:LYS:HD3	2.14	0.47
1:E:3892:CYS:HB2	1:E:3967:GLU:HG3	1.95	0.47
1:E:3993:LEU:C	1:E:4054:ASN:HD21	2.17	0.47
1:G:317:ARG:NH2	1:G:321:GLU:O	2.47	0.47
1:G:414:PHE:CD1	1:G:441:VAL:HG21	2.49	0.47
1:G:592:LYS:HE3	1:G:1596:GLU:OE1	2.13	0.47
1:G:595:ARG:HH22	1:G:1641:ILE:HD13	1.78	0.47
1:G:649:PHE:CD1	1:G:778:PHE:HB3	2.49	0.47
1:G:1518:CYS:HB3	1:G:1528:THR:OG1	2.13	0.47
1:G:1639:LEU:HG	1:G:1648:MET:O	2.14	0.47
1:G:3926:LEU:O	1:G:3930:ILE:HG12	2.15	0.47
1:G:4688:ILE:HD13	1:G:4688:ILE:N	2.28	0.47
1:G:4691:GLN:HG3	1:G:4692:PRO:N	2.29	0.47
2:H:36:PHE:HZ	2:H:99:PHE:HE1	1.61	0.47
1:A:626:LEU:HB3	1:A:1688:HIS:NE2	2.30	0.47
1:A:1232:ARG:HE	1:A:1701:ALA:HB3	1.79	0.47
1:A:1245:PHE:HB2	1:A:1602:PRO:HB2	1.97	0.47
1:A:1727:ARG:HD2	1:A:1772:ARG:HD3	1.95	0.47
1:A:1766:GLY:CA	1:A:1856:ASP:OD1	2.62	0.47
1:A:2248:ARG:HG2	1:A:2286:LEU:HD11	1.96	0.47
1:A:4778:TRP:O	1:A:4782:VAL:HG23	2.14	0.47
1:C:265:LEU:HG	1:C:280:LEU:HA	1.96	0.47
1:C:519:VAL:CG1	1:C:555:GLU:OE1	2.62	0.47
1:C:592:LYS:HE3	1:C:1596:GLU:OE1	2.13	0.47
1:C:2498:HIS:O	1:C:2502:MET:HG2	2.15	0.47
1:C:4554:TYR:HA	1:C:4557:ARG:HG2	1.96	0.47
1:C:4680:LYS:O	1:C:4684:ASP:CB	2.59	0.47
1:E:1715:LEU:HD22	1:E:1844:LEU:HD11	1.96	0.47
1:E:1835:GLU:CG	1:E:1932:PRO:HB2	2.45	0.47
1:E:1853:ILE:CG2	1:E:1854:PHE:CE1	2.97	0.47
1:E:2144:ILE:HD13	1:E:2152:THR:HG21	1.96	0.47
1:E:4083:ASP:OD2	1:E:4087:LEU:HB2	2.14	0.47
1:E:4688:ILE:HD13	1:E:4688:ILE:N	2.28	0.47
1:E:4711:PHE:HB3	1:E:4712:PRO:HD3	1.95	0.47
1:G:110:ARG:HG2	1:G:111:HIS:O	2.14	0.47
1:G:515:TRP:HA	1:G:518:ILE:HD12	1.97	0.47
1:G:626:LEU:HB3	1:G:1688:HIS:NE2	2.30	0.47
1:G:1720:LEU:HD22	1:G:1851:MET:SD	2.54	0.47
1:G:3647:HIS:CE1	1:G:3648:ARG:HG2	2.49	0.47
1:A:649:PHE:CD1	1:A:778:PHE:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2742:THR:O	1:A:2814:LYS:HD3	2.14	0.47
1:A:3705:PHE:CD1	1:A:3722:TYR:HD1	2.32	0.47
1:A:4554:TYR:HA	1:A:4557:ARG:HG2	1.96	0.47
1:A:4676:GLU:O	1:A:4680:LYS:HG3	2.15	0.47
1:C:103:TYR:HB2	1:C:159:GLU:HA	1.96	0.47
1:C:515:TRP:HA	1:C:518:ILE:HD12	1.97	0.47
1:C:595:ARG:HH22	1:C:1641:ILE:HD13	1.78	0.47
1:C:665:GLU:OE2	1:C:802:PHE:N	2.46	0.47
1:C:1111:PRO:HB3	1:C:1609:PRO:HG3	1.97	0.47
1:C:1245:PHE:HB2	1:C:1602:PRO:HB2	1.97	0.47
1:C:1767:VAL:HG23	1:C:1768:THR:N	2.30	0.47
1:C:2066:LEU:HD13	1:C:2069:THR:OG1	2.14	0.47
1:C:4691:GLN:HG3	1:C:4692:PRO:N	2.29	0.47
1:E:110:ARG:HG2	1:E:111:HIS:O	2.14	0.47
1:E:1123:VAL:O	1:E:1132:TRP:N	2.30	0.47
1:E:1662:PHE:O	1:E:1666:THR:HG23	2.14	0.47
1:E:1858:ASP:O	1:E:1862:ILE:HG12	2.14	0.47
1:E:2066:LEU:HD13	1:E:2069:THR:OG1	2.14	0.47
1:E:3926:LEU:O	1:E:3930:ILE:HG12	2.15	0.47
1:E:4181:ILE:HB	1:E:4988:TYR:CE1	2.49	0.47
1:E:4554:TYR:HA	1:E:4557:ARG:HG2	1.96	0.47
1:G:441:VAL:O	1:G:445:LEU:HD13	2.14	0.47
1:G:519:VAL:CG1	1:G:555:GLU:OE1	2.62	0.47
1:G:614:VAL:HG13	1:G:617:ASN:HB3	1.96	0.47
1:G:743:VAL:N	1:G:760:ASN:OD1	2.45	0.47
1:G:841:GLY:HA2	1:G:843:SER:N	2.23	0.47
1:G:1766:GLY:CA	1:G:1856:ASP:OD1	2.62	0.47
1:G:1767:VAL:HG23	1:G:1768:THR:N	2.30	0.47
1:G:2227:LYS:O	1:G:2230:THR:OG1	2.18	0.47
1:G:2259:GLU:HA	1:G:2301:TYR:OH	2.15	0.47
1:G:2498:HIS:O	1:G:2501:SER:OG	2.22	0.47
1:G:3844:LEU:HD12	1:G:3933:PHE:HA	1.95	0.47
1:G:3951:PHE:HD2	1:G:4012:LEU:HD21	1.79	0.47
1:G:4901:ILE:HD13	1:G:4913:ARG:NH2	2.28	0.47
1:A:2066:LEU:HD13	1:A:2069:THR:OG1	2.14	0.47
1:A:4179:GLY:O	1:A:4195:PHE:CE2	2.67	0.47
1:C:317:ARG:NH2	1:C:321:GLU:O	2.47	0.47
1:C:414:PHE:CD1	1:C:441:VAL:HG21	2.49	0.47
1:E:103:TYR:CD2	1:E:161:GLU:O	2.68	0.47
1:E:515:TRP:HA	1:E:518:ILE:HD12	1.97	0.47
1:E:537:CYS:SG	1:E:567:VAL:HA	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:835:ARG:NH2	1:E:1211:LEU:HD13	2.24	0.47
1:E:1111:PRO:HB3	1:E:1609:PRO:HG3	1.97	0.47
1:E:1245:PHE:HB2	1:E:1602:PRO:HB2	1.97	0.47
1:E:3705:PHE:CD1	1:E:3722:TYR:HD1	2.32	0.47
1:E:3957:VAL:O	1:E:3961:VAL:HG23	2.13	0.47
1:E:4676:GLU:O	1:E:4680:LYS:HG3	2.15	0.47
1:E:4879:MET:HB3	1:G:4578:LEU:O	2.14	0.47
1:E:4898:GLY:HA2	1:E:4901:ILE:HG21	1.95	0.47
1:G:635:THR:HG23	1:G:1693:GLN:HE22	1.79	0.47
1:G:1143:TRP:HB2	1:G:1147:ASP:HB2	1.95	0.47
1:G:1232:ARG:HE	1:G:1701:ALA:HB3	1.79	0.47
1:G:1775:HIS:HE1	1:G:1804:LEU:HD21	1.80	0.47
2:H:40:ARG:C	2:H:43:ASN:H	2.14	0.47
1:A:110:ARG:HG2	1:A:111:HIS:O	2.14	0.47
1:A:531:ARG:HG2	1:A:566:CYS:SG	2.54	0.47
1:A:614:VAL:HG13	1:A:617:ASN:HB3	1.96	0.47
1:A:748:LEU:HD13	1:A:755:ILE:HG13	1.96	0.47
1:A:1110:ARG:NH2	1:A:1251:GLU:OE1	2.48	0.47
1:A:1641:ILE:HG13	1:A:1643:GLU:HG2	1.95	0.47
1:A:1762:LEU:HD13	1:A:1763:PRO:N	2.30	0.47
1:A:2855:TYR:CD2	1:A:2857:PRO:HD3	2.49	0.47
1:A:3805:LEU:HB2	1:A:3890:LEU:HD23	1.96	0.47
1:A:4083:ASP:OD2	1:A:4087:LEU:CB	2.62	0.47
1:A:4852:THR:HG21	1:A:4883:TYR:HB2	1.97	0.47
1:C:223:PHE:HE1	1:C:253:CYS:HG	1.61	0.47
1:C:614:VAL:HG13	1:C:617:ASN:HB3	1.96	0.47
1:C:649:PHE:CD1	1:C:778:PHE:HB3	2.49	0.47
1:C:664:PHE:HB2	1:C:793:LEU:HD23	1.96	0.47
1:C:1766:GLY:CA	1:C:1856:ASP:OD1	2.62	0.47
1:C:1835:GLU:CG	1:C:1932:PRO:HB2	2.45	0.47
1:C:3892:CYS:HB2	1:C:3967:GLU:HG3	1.95	0.47
1:C:3958:ALA:HB3	1:C:4019:LEU:HD11	1.96	0.47
1:E:675:LEU:O	1:E:676:THR:OG1	2.28	0.47
1:E:1767:VAL:HG23	1:E:1768:THR:N	2.30	0.47
1:E:1775:HIS:HE1	1:E:1804:LEU:HD21	1.80	0.47
1:E:3841:VAL:CG2	1:E:3925:ARG:HD3	2.45	0.47
1:E:3878:ASP:O	1:E:3881:THR:OG1	2.18	0.47
1:E:4852:THR:HG21	1:E:4883:TYR:HB2	1.97	0.47
1:G:1254:HIS:CD2	1:G:1280:GLN:HB3	2.50	0.47
1:G:1294:PRO:HD3	1:G:1549:PHE:CE1	2.50	0.47
1:G:1835:GLU:CG	1:G:1932:PRO:HB2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2277:ALA:O	1:G:2281:ILE:HG13	2.15	0.47
1:G:2855:TYR:CD2	1:G:2857:PRO:HD3	2.49	0.47
1:G:3705:PHE:CD1	1:G:3722:TYR:HD1	2.32	0.47
1:G:3958:ALA:HB3	1:G:4019:LEU:HD11	1.96	0.47
1:G:4003:LEU:O	1:G:4009:GLN:HB3	2.14	0.47
1:G:4083:ASP:OD2	1:G:4087:LEU:HB2	2.14	0.47
1:G:4182:GLU:CD	1:G:4982:GLU:OE1	2.52	0.47
1:A:1111:PRO:HB3	1:A:1609:PRO:HG3	1.97	0.47
1:A:1478:ASP:C	1:A:1480:GLN:N	2.68	0.47
1:A:2277:ALA:O	1:A:2281:ILE:HG13	2.15	0.47
1:A:3969:ILE:HG21	1:A:4030:LEU:HA	1.97	0.47
1:A:4181:ILE:HG23	1:A:4195:PHE:CE2	2.48	0.47
1:A:4181:ILE:CG2	1:A:4195:PHE:CE2	2.98	0.47
1:A:4879:MET:HB3	1:C:4578:LEU:O	2.14	0.47
1:C:52:THR:HG22	1:C:60:PRO:HB3	1.97	0.47
1:C:284:HIS:HD2	1:C:287:THR:H	1.63	0.47
1:C:473:ASN:O	1:C:477:LEU:HG	2.15	0.47
1:C:531:ARG:HG2	1:C:566:CYS:SG	2.54	0.47
1:C:748:LEU:HD13	1:C:755:ILE:HG13	1.96	0.47
1:C:1639:LEU:HG	1:C:1648:MET:O	2.14	0.47
1:C:1775:HIS:HE1	1:C:1804:LEU:HD21	1.80	0.47
1:C:1815:LEU:HB3	1:C:1865:MET:SD	2.55	0.47
1:C:3713:LYS:O	1:C:3714:SER:OG	2.29	0.47
1:C:3901:ASN:O	1:C:3905:THR:HG22	2.14	0.47
1:C:4031:LEU:HD11	1:C:4044:MET:SD	2.55	0.47
1:C:4181:ILE:HB	1:C:4988:TYR:CE1	2.49	0.47
1:C:4181:ILE:CG2	1:C:4195:PHE:CE2	2.98	0.47
1:C:4187:SER:CB	1:C:4189:ARG:NE	2.77	0.47
1:C:4852:THR:HG21	1:C:4883:TYR:HB2	1.97	0.47
1:C:4879:MET:HB3	1:E:4578:LEU:O	2.14	0.47
1:E:223:PHE:HA	1:E:230:CYS:HA	1.97	0.47
1:E:280:LEU:N	1:E:314:PHE:O	2.42	0.47
1:E:414:PHE:CD1	1:E:441:VAL:HG21	2.49	0.47
1:E:441:VAL:O	1:E:445:LEU:HD13	2.14	0.47
1:E:519:VAL:CG1	1:E:555:GLU:OE1	2.62	0.47
1:E:540:PHE:HA	1:E:543:ASN:HB3	1.97	0.47
1:E:626:LEU:HB3	1:E:1688:HIS:NE2	2.30	0.47
1:E:748:LEU:HD13	1:E:755:ILE:HG13	1.96	0.47
1:E:764:VAL:O	1:E:764:VAL:HG12	2.14	0.47
1:E:1232:ARG:HE	1:E:1701:ALA:HB3	1.79	0.47
1:E:2146:PRO:O	1:E:2149:VAL:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2498:HIS:O	1:E:2502:MET:HG2	2.15	0.47
1:E:3835:LEU:HD11	1:E:3880:PHE:HZ	1.80	0.47
1:E:4031:LEU:HD11	1:E:4044:MET:SD	2.55	0.47
1:E:4083:ASP:OD2	1:E:4087:LEU:CA	2.61	0.47
1:E:4181:ILE:CG2	1:E:4195:PHE:CE2	2.98	0.47
1:E:4239:GLU:OE2	1:E:5014:TYR:OH	2.29	0.47
1:E:4687:TYR:CD1	1:E:4687:TYR:N	2.80	0.47
1:E:4794:TRP:HA	1:E:4797:VAL:HG12	1.97	0.47
1:G:103:TYR:CD2	1:G:161:GLU:O	2.68	0.47
1:G:223:PHE:HA	1:G:230:CYS:HA	1.97	0.47
1:G:1110:ARG:NH2	1:G:1251:GLU:OE1	2.48	0.47
1:G:1245:PHE:HB2	1:G:1602:PRO:HB2	1.97	0.47
1:G:1257:VAL:HA	1:G:1277:TRP:CE2	2.50	0.47
1:G:1662:PHE:O	1:G:1666:THR:HG23	2.14	0.47
1:G:1727:ARG:HD2	1:G:1772:ARG:HD3	1.95	0.47
1:G:1762:LEU:HD13	1:G:1763:PRO:N	2.30	0.47
1:G:1853:ILE:HG22	1:G:1854:PHE:HD1	1.67	0.47
1:G:1853:ILE:CG2	1:G:1854:PHE:CE1	2.97	0.47
1:G:2142:TYR:CE2	1:G:2197:LEU:HB2	2.50	0.47
1:G:2146:PRO:O	1:G:2149:VAL:HG22	2.15	0.47
1:G:2248:ARG:HG2	1:G:2286:LEU:HD11	1.96	0.47
1:G:2742:THR:O	1:G:2814:LYS:HD3	2.14	0.47
1:G:3702:VAL:HG13	1:G:3778:MET:SD	2.54	0.47
1:G:3841:VAL:CG2	1:G:3925:ARG:HD3	2.45	0.47
1:G:4049:VAL:CG2	1:G:4159:ARG:HD3	2.42	0.47
1:G:4077:PHE:CE1	1:G:4088:ILE:HG21	2.48	0.47
1:G:4554:TYR:HA	1:G:4557:ARG:HG2	1.96	0.47
1:G:4676:GLU:O	1:G:4680:LYS:HG3	2.15	0.47
1:G:4794:TRP:HA	1:G:4797:VAL:HG12	1.97	0.47
1:G:4852:THR:HG21	1:G:4883:TYR:HB2	1.97	0.47
1:A:265:LEU:HG	1:A:280:LEU:HA	1.96	0.47
1:A:299:LEU:HB2	1:A:378:LEU:HG	1.97	0.47
1:A:473:ASN:O	1:A:477:LEU:HG	2.15	0.47
1:A:1294:PRO:HD3	1:A:1549:PHE:CE1	2.50	0.47
1:A:1698:LEU:HG	1:A:1712:TYR:HE1	1.79	0.47
1:A:2259:GLU:HA	1:A:2301:TYR:OH	2.15	0.47
1:A:3780:LEU:HD11	1:A:3820:LEU:HD21	1.97	0.47
1:C:537:CYS:SG	1:C:567:VAL:HA	2.54	0.47
1:C:2431:ASP:HB2	1:C:2501:SER:HB2	1.97	0.47
1:C:4083:ASP:OD2	1:C:4087:LEU:HB2	2.14	0.47
1:C:4693:GLY:C	1:C:4695:ASP:N	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:12:GLN:CB	1:E:13:PHE:CD1	2.97	0.47
1:E:52:THR:HG22	1:E:60:PRO:HB3	1.97	0.47
1:E:619:ASP:O	1:E:622:THR:OG1	2.27	0.47
1:E:841:GLY:HA2	1:E:843:SER:N	2.23	0.47
1:E:1835:GLU:HG3	1:E:1932:PRO:HB2	1.97	0.47
1:E:2431:ASP:HB2	1:E:2501:SER:HB2	1.97	0.47
1:E:4157:ASP:O	1:E:4161:ARG:N	2.41	0.47
1:G:473:ASN:O	1:G:477:LEU:HG	2.15	0.47
1:G:2257:LEU:HD21	1:G:2275:VAL:HB	1.96	0.47
1:A:414:PHE:CD1	1:A:441:VAL:HG21	2.49	0.47
1:A:1775:HIS:HE1	1:A:1804:LEU:HD21	1.80	0.47
1:A:3844:LEU:HD12	1:A:3933:PHE:HA	1.95	0.47
1:A:3958:ALA:HB3	1:A:4019:LEU:HD11	1.96	0.47
1:A:4187:SER:CB	1:A:4189:ARG:NE	2.77	0.47
1:C:179:TYR:CD2	1:C:195:PHE:O	2.68	0.47
1:C:441:VAL:O	1:C:445:LEU:HD13	2.14	0.47
1:C:540:PHE:HA	1:C:543:ASN:HB3	1.97	0.47
1:C:600:LEU:CD2	1:C:1666:THR:HA	2.30	0.47
1:C:1762:LEU:HD13	1:C:1763:PRO:N	2.30	0.47
1:C:3705:PHE:CD1	1:C:3722:TYR:HD1	2.32	0.47
1:C:3924:LEU:O	1:C:3927:GLN:HB3	2.15	0.47
1:E:179:TYR:CD2	1:E:195:PHE:O	2.68	0.47
1:E:531:ARG:HG2	1:E:566:CYS:SG	2.54	0.47
1:E:595:ARG:HB3	1:E:1662:PHE:CG	2.43	0.47
1:E:1288:PHE:CE2	1:E:1462:HIS:HA	2.43	0.47
1:E:1937:LEU:HB2	1:E:2116:LEU:HD12	1.95	0.47
1:G:531:ARG:HG2	1:G:566:CYS:SG	2.54	0.47
1:G:3712:GLU:O	1:G:3712:GLU:HG2	2.15	0.47
1:G:3805:LEU:HB2	1:G:3890:LEU:HD23	1.96	0.47
1:G:3842:LEU:HD22	1:G:3930:ILE:HD13	1.97	0.47
1:G:3969:ILE:HG21	1:G:4030:LEU:HA	1.97	0.47
1:G:4187:SER:CB	1:G:4189:ARG:NE	2.77	0.47
1:A:515:TRP:HA	1:A:518:ILE:HD12	1.97	0.47
1:A:520:ASN:CG	1:A:556:ALA:HB1	2.35	0.47
1:A:683:ARG:NH1	1:A:722:TRP:HB3	2.29	0.47
1:A:1116:GLY:HA2	1:A:1121:ALA:HB3	1.97	0.47
1:A:1254:HIS:CD2	1:A:1280:GLN:HB3	2.50	0.47
1:A:1297:PHE:HB2	1:A:1545:ASN:CA	2.38	0.47
1:A:1767:VAL:HG23	1:A:1768:THR:N	2.30	0.47
1:A:3993:LEU:C	1:A:4054:ASN:HD21	2.17	0.47
1:A:4687:TYR:CD1	1:A:4687:TYR:N	2.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:12:GLN:CB	1:C:13:PHE:CD1	2.97	0.47
1:C:404:ILE:HG21	1:C:481:GLU:HG2	1.97	0.47
1:C:520:ASN:CG	1:C:556:ALA:HB1	2.35	0.47
1:C:628:GLY:C	1:C:630:GLU:H	2.15	0.47
1:C:683:ARG:NH1	1:C:722:TRP:HB3	2.29	0.47
1:C:2855:TYR:CD2	1:C:2857:PRO:HD3	2.49	0.47
1:C:3695:PRO:HG2	1:C:3700:GLN:OE1	2.15	0.47
1:C:3780:LEU:HD11	1:C:3820:LEU:HD21	1.97	0.47
1:C:4676:GLU:O	1:C:4680:LYS:HG3	2.15	0.47
1:E:116:MET:HB2	1:E:137:LEU:HD13	1.97	0.47
1:E:265:LEU:HG	1:E:280:LEU:HA	1.96	0.47
1:E:473:ASN:O	1:E:477:LEU:HG	2.15	0.47
1:E:1110:ARG:NH2	1:E:1251:GLU:OE1	2.48	0.47
1:E:1158:ASN:O	1:E:1181:GLU:N	2.48	0.47
1:E:1698:LEU:HG	1:E:1712:TYR:HE1	1.79	0.47
1:E:1762:LEU:HD13	1:E:1763:PRO:N	2.30	0.47
1:E:2259:GLU:HA	1:E:2301:TYR:OH	2.15	0.47
1:E:4179:GLY:O	1:E:4195:PHE:CE2	2.67	0.47
1:E:4692:PRO:CG	1:E:4700:GLN:CD	2.84	0.47
1:G:42:PHE:HD1	1:G:447:ASP:OD2	1.98	0.47
1:G:103:TYR:HB2	1:G:159:GLU:HA	1.96	0.47
1:G:520:ASN:CG	1:G:556:ALA:HB1	2.35	0.47
1:G:748:LEU:HD13	1:G:755:ILE:HG13	1.96	0.47
1:G:1111:PRO:HB3	1:G:1609:PRO:HG3	1.97	0.47
1:G:1116:GLY:HA2	1:G:1121:ALA:HB3	1.97	0.47
1:G:1698:LEU:HG	1:G:1712:TYR:HE1	1.79	0.47
1:G:2377:LEU:HA	1:G:2380:ILE:HD12	1.97	0.47
1:G:4056:GLU:HG3	1:G:4060:LYS:HE3	1.97	0.47
1:G:4895:GLY:HA2	1:G:4921:PHE:CE1	2.50	0.47
1:A:764:VAL:O	1:A:764:VAL:HG12	2.14	0.46
1:A:1158:ASN:O	1:A:1181:GLU:N	2.48	0.46
1:A:3916:ILE:HD13	1:A:3976:ASN:OD1	2.14	0.46
1:A:4031:LEU:HD11	1:A:4044:MET:SD	2.55	0.46
1:A:4691:GLN:HG3	1:A:4692:PRO:N	2.29	0.46
1:C:682:LEU:HD12	1:C:682:LEU:HA	1.80	0.46
1:C:1110:ARG:NH2	1:C:1251:GLU:OE1	2.48	0.46
1:C:1239:SER:HA	1:C:1609:PRO:HA	1.98	0.46
1:C:1294:PRO:HD3	1:C:1549:PHE:CE1	2.50	0.46
1:C:2146:PRO:O	1:C:2149:VAL:HG22	2.15	0.46
1:C:3993:LEU:C	1:C:4054:ASN:HD21	2.17	0.46
1:C:4182:GLU:CD	1:C:4982:GLU:OE1	2.52	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:664:PHE:HB2	1:E:793:LEU:HD23	1.96	0.46
1:E:1239:SER:HA	1:E:1609:PRO:HA	1.98	0.46
1:E:2142:TYR:CE2	1:E:2197:LEU:HB2	2.50	0.46
1:E:3712:GLU:O	1:E:3712:GLU:HG2	2.15	0.46
1:E:4179:GLY:C	1:E:4195:PHE:CE2	2.89	0.46
1:G:1715:LEU:HD22	1:G:1844:LEU:HD11	1.96	0.46
1:G:1743:ARG:CB	1:G:1963:GLU:CG	2.92	0.46
1:G:1937:LEU:HB2	1:G:2116:LEU:HD12	1.95	0.46
1:G:2144:ILE:HD13	1:G:2152:THR:HG21	1.96	0.46
1:G:4778:TRP:O	1:G:4782:VAL:HG23	2.14	0.46
1:A:12:GLN:CB	1:A:13:PHE:CD1	2.97	0.46
1:A:42:PHE:HD1	1:A:447:ASP:OD2	1.98	0.46
1:A:52:THR:HG22	1:A:60:PRO:HB3	1.97	0.46
1:A:384:MET:HE1	1:G:167:ASP:CG	2.35	0.46
1:C:284:HIS:HD2	1:C:287:THR:OG1	1.99	0.46
1:C:1257:VAL:HA	1:C:1277:TRP:CE2	2.50	0.46
1:C:1698:LEU:HG	1:C:1712:TYR:HE1	1.79	0.46
1:C:3951:PHE:HD2	1:C:4012:LEU:HD21	1.79	0.46
1:C:4794:TRP:HA	1:C:4797:VAL:HG12	1.97	0.46
1:E:299:LEU:HB2	1:E:378:LEU:HG	1.97	0.46
1:E:1132:TRP:NE1	1:E:1136:SER:HB3	2.31	0.46
1:E:1815:LEU:HB3	1:E:1865:MET:SD	2.55	0.46
1:E:2166:LEU:HG	1:E:2209:GLU:OE1	2.14	0.46
1:E:3842:LEU:HD22	1:E:3930:ILE:HD13	1.97	0.46
1:E:4895:GLY:HA2	1:E:4921:PHE:CE1	2.50	0.46
1:E:4931:ILE:O	1:E:4935:LEU:HB2	2.16	0.46
1:G:52:THR:HG22	1:G:60:PRO:HB3	1.97	0.46
1:G:595:ARG:CB	1:G:1662:PHE:CD1	2.72	0.46
1:G:1286:MET:N	1:G:1555:LEU:HD12	2.21	0.46
1:G:2340:PHE:HB2	1:G:2435:ARG:CG	2.46	0.46
1:G:3924:LEU:O	1:G:3927:GLN:HB3	2.15	0.46
1:G:4005:GLN:OE1	1:G:4005:GLN:HA	2.15	0.46
1:A:125:ARG:HB3	1:A:134:ASP:OD1	2.09	0.46
1:A:1205:GLY:HA2	1:A:1225:PRO:HB2	1.97	0.46
1:A:1286:MET:N	1:A:1555:LEU:HD12	2.21	0.46
1:A:1622:GLU:O	1:A:1626:TRP:HA	2.16	0.46
1:A:2146:PRO:O	1:A:2149:VAL:HG22	2.15	0.46
1:A:3878:ASP:O	1:A:3881:THR:OG1	2.18	0.46
1:A:4005:GLN:HA	1:A:4005:GLN:OE1	2.15	0.46
1:C:107:ILE:HG12	1:C:148:TRP:O	2.16	0.46
1:C:472:ARG:NH1	1:C:532:GLY:HA2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:626:LEU:HB3	1:C:1688:HIS:NE2	2.30	0.46
1:C:764:VAL:O	1:C:764:VAL:HG12	2.14	0.46
1:C:2259:GLU:HA	1:C:2301:TYR:OH	2.15	0.46
1:C:3835:LEU:HD11	1:C:3880:PHE:HZ	1.80	0.46
1:C:3878:ASP:O	1:C:3881:THR:OG1	2.18	0.46
1:C:4179:GLY:O	1:C:4195:PHE:CE2	2.67	0.46
1:E:284:HIS:HD2	1:E:287:THR:H	1.63	0.46
1:E:743:VAL:N	1:E:760:ASN:OD1	2.45	0.46
1:E:1294:PRO:HD3	1:E:1549:PHE:CE1	2.50	0.46
1:E:2257:LEU:HD21	1:E:2275:VAL:HB	1.96	0.46
1:E:2377:LEU:HA	1:E:2380:ILE:HD12	1.97	0.46
1:E:3723:MET:SD	1:E:3793:MET:HA	2.56	0.46
1:E:4005:GLN:OE1	1:E:4005:GLN:HA	2.15	0.46
1:G:234:SER:OG	1:G:242:ARG:HA	2.16	0.46
1:G:2498:HIS:O	1:G:2502:MET:HG2	2.15	0.46
1:G:4051:SER:HG	1:G:4054:ASN:HB3	1.81	0.46
1:A:103:TYR:CD2	1:A:161:GLU:O	2.68	0.46
1:A:284:HIS:HD2	1:A:287:THR:H	1.63	0.46
1:A:630:GLU:O	1:A:1642:PRO:HG2	2.15	0.46
1:A:3647:HIS:CE1	1:A:3648:ARG:HG2	2.49	0.46
1:A:3695:PRO:HG2	1:A:3700:GLN:OE1	2.15	0.46
1:A:3712:GLU:HG2	1:A:3712:GLU:O	2.15	0.46
1:A:3841:VAL:CG2	1:A:3925:ARG:HD3	2.45	0.46
1:A:4688:ILE:HG21	1:A:4728:HIS:HB3	1.97	0.46
1:A:4794:TRP:HA	1:A:4797:VAL:HG12	1.97	0.46
1:A:4931:ILE:O	1:A:4935:LEU:HB2	2.16	0.46
1:A:4991:PHE:CE2	1:A:5010:VAL:HG11	2.48	0.46
1:C:103:TYR:CD2	1:C:161:GLU:O	2.68	0.46
1:C:1132:TRP:NE1	1:C:1136:SER:HB3	2.31	0.46
1:C:1958:LEU:HD11	1:C:3657:TYR:HE2	1.81	0.46
1:C:3712:GLU:O	1:C:3712:GLU:HG2	2.15	0.46
1:C:3723:MET:SD	1:C:3793:MET:HA	2.56	0.46
1:C:3958:ALA:O	1:C:3962:PHE:HD2	1.99	0.46
1:C:4217:PHE:CZ	1:C:4234:PHE:HA	2.50	0.46
1:E:103:TYR:HB2	1:E:159:GLU:HA	1.96	0.46
1:E:472:ARG:NH1	1:E:532:GLY:HA2	2.31	0.46
1:E:592:LYS:HE3	1:E:1596:GLU:OE1	2.13	0.46
1:E:630:GLU:O	1:E:1642:PRO:HG2	2.15	0.46
1:E:1205:GLY:O	1:E:1209:SER:OG	2.34	0.46
1:E:1257:VAL:HA	1:E:1277:TRP:CE2	2.50	0.46
1:E:1733:GLU:CD	1:E:2163:ARG:HH22	2.17	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2277:ALA:O	1:E:2281:ILE:HG13	2.15	0.46
1:E:3775:ALA:O	1:E:3779:VAL:HG23	2.16	0.46
1:G:12:GLN:CB	1:G:13:PHE:CD1	2.97	0.46
1:G:224:HIS:HA	1:G:388:LEU:HD23	1.97	0.46
1:G:764:VAL:O	1:G:764:VAL:HG12	2.14	0.46
1:G:3974:THR:HG23	1:G:3975:GLY:N	2.29	0.46
1:G:4181:ILE:CG2	1:G:4195:PHE:CE2	2.98	0.46
1:A:769:GLU:HB2	1:A:1473:THR:OG1	2.16	0.46
1:A:2133:GLU:HG3	1:A:2136:ARG:NE	2.27	0.46
1:A:2760:GLU:O	1:A:2764:GLU:HG3	2.16	0.46
1:A:3924:LEU:O	1:A:3927:GLN:HB3	2.15	0.46
1:A:4217:PHE:CZ	1:A:4234:PHE:HA	2.50	0.46
1:C:598:LYS:O	1:C:602:VAL:HG23	2.16	0.46
1:C:1254:HIS:CD2	1:C:1280:GLN:HB3	2.50	0.46
1:C:2760:GLU:O	1:C:2764:GLU:HG3	2.16	0.46
1:E:1254:HIS:CD2	1:E:1280:GLN:HB3	2.50	0.46
1:E:2133:GLU:HG3	1:E:2136:ARG:NE	2.27	0.46
1:E:3669:PHE:O	1:E:3670:GLU:C	2.54	0.46
1:E:4655:PHE:O	1:E:4658:ILE:HG13	2.15	0.46
1:G:179:TYR:CD2	1:G:195:PHE:O	2.68	0.46
1:G:664:PHE:HB2	1:G:793:LEU:HD23	1.96	0.46
1:G:1706:PRO:CA	1:G:1836:PHE:HE2	2.29	0.46
1:G:3723:MET:SD	1:G:3793:MET:HA	2.56	0.46
1:G:4031:LEU:HD11	1:G:4044:MET:SD	2.55	0.46
1:G:4692:PRO:CG	1:G:4700:GLN:CD	2.84	0.46
1:G:4931:ILE:O	1:G:4935:LEU:HB2	2.16	0.46
1:A:284:HIS:HD2	1:A:287:THR:OG1	1.99	0.46
1:A:441:VAL:O	1:A:445:LEU:HD13	2.14	0.46
1:A:1835:GLU:CG	1:A:1932:PRO:HB2	2.45	0.46
1:A:4049:VAL:CG2	1:A:4159:ARG:HD3	2.42	0.46
1:C:630:GLU:O	1:C:1642:PRO:HG2	2.15	0.46
1:C:1853:ILE:CG2	1:C:1854:PHE:CE1	2.97	0.46
1:C:4150:LEU:O	1:C:4154:VAL:N	2.36	0.46
1:E:284:HIS:HD2	1:E:287:THR:OG1	1.99	0.46
1:E:1639:LEU:HG	1:E:1648:MET:O	2.14	0.46
1:E:3951:PHE:HD2	1:E:4012:LEU:HD21	1.79	0.46
1:E:3974:THR:HG23	1:E:3975:GLY:N	2.29	0.46
1:G:265:LEU:HG	1:G:280:LEU:HA	1.96	0.46
1:G:984:LEU:O	1:G:988:LEU:HG	2.16	0.46
1:G:1239:SER:HA	1:G:1609:PRO:HA	1.98	0.46
1:G:1763:PRO:CG	1:G:1863:LEU:HD11	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2434:GLY:HA3	1:G:2505:PHE:HA	1.98	0.46
1:G:4655:PHE:O	1:G:4658:ILE:HG13	2.15	0.46
1:A:16:THR:O	1:A:98:HIS:ND1	2.48	0.46
1:A:116:MET:HB2	1:A:137:LEU:HD13	1.97	0.46
1:A:179:TYR:CD2	1:A:195:PHE:O	2.68	0.46
1:A:223:PHE:HA	1:A:230:CYS:HA	1.97	0.46
1:A:664:PHE:HB2	1:A:793:LEU:HD23	1.96	0.46
1:A:1239:SER:HA	1:A:1609:PRO:HA	1.98	0.46
1:A:1743:ARG:CB	1:A:1963:GLU:CG	2.92	0.46
1:A:1815:LEU:HB3	1:A:1865:MET:SD	2.55	0.46
1:A:3696:ASP:O	1:A:3700:GLN:HG2	2.16	0.46
1:A:4913:ARG:NH1	1:C:4888:TYR:OH	2.48	0.46
1:C:234:SER:OG	1:C:242:ARG:HA	2.16	0.46
1:C:299:LEU:HB2	1:C:378:LEU:HG	1.97	0.46
1:C:937:CYS:HA	1:C:1055:PRO:HA	1.98	0.46
1:C:1205:GLY:HA2	1:C:1225:PRO:HB2	1.97	0.46
1:C:1286:MET:N	1:C:1555:LEU:HD12	2.21	0.46
1:C:1835:GLU:HG3	1:C:1932:PRO:HB2	1.97	0.46
1:C:3969:ILE:HG21	1:C:4030:LEU:HA	1.97	0.46
1:C:4049:VAL:CG2	1:C:4159:ARG:HD3	2.42	0.46
1:C:4056:GLU:HG3	1:C:4060:LYS:HE3	1.97	0.46
1:C:4692:PRO:CG	1:C:4700:GLN:CD	2.84	0.46
1:E:276:TRP:CD1	1:E:338:GLU:CD	2.89	0.46
1:E:665:GLU:OE2	1:E:802:PHE:N	2.46	0.46
1:E:1706:PRO:CA	1:E:1836:PHE:HE2	2.29	0.46
1:E:2498:HIS:O	1:E:2501:SER:OG	2.22	0.46
1:E:3990:VAL:HG22	1:E:4047:MET:HB2	1.97	0.46
1:E:4181:ILE:CG2	1:E:4195:PHE:CD2	2.96	0.46
1:G:540:PHE:HA	1:G:543:ASN:HB3	1.97	0.46
1:G:630:GLU:O	1:G:1642:PRO:HG2	2.15	0.46
1:G:664:PHE:HB3	1:G:811:CYS:SG	2.56	0.46
1:G:679:ALA:C	1:G:680:THR:O	2.47	0.46
1:G:1815:LEU:HB3	1:G:1865:MET:SD	2.55	0.46
1:G:3775:ALA:O	1:G:3779:VAL:HG23	2.16	0.46
1:G:3898:ASP:OD1	1:G:3899:PHE:N	2.49	0.46
1:G:4217:PHE:CZ	1:G:4234:PHE:HA	2.50	0.46
1:G:4693:GLY:O	1:G:4695:ASP:CA	2.58	0.46
1:A:103:TYR:HB2	1:A:159:GLU:HA	1.96	0.46
1:A:904:HIS:H	1:A:907:LEU:HD12	1.81	0.46
1:A:984:LEU:O	1:A:988:LEU:HG	2.16	0.46
1:A:1958:LEU:HD11	1:A:3657:TYR:HE2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2133:GLU:HA	1:A:2136:ARG:HG2	1.98	0.46
1:A:2340:PHE:HB2	1:A:2435:ARG:CG	2.46	0.46
1:A:2434:GLY:HA3	1:A:2505:PHE:HA	1.98	0.46
1:A:3990:VAL:HG22	1:A:4047:MET:HB2	1.97	0.46
1:A:4179:GLY:C	1:A:4195:PHE:CE2	2.89	0.46
1:A:4655:PHE:O	1:A:4658:ILE:HG13	2.15	0.46
1:A:4705:VAL:HB	1:A:4778:TRP:CD2	2.51	0.46
1:A:4920:PHE:CE1	1:A:4924:VAL:HG21	2.51	0.46
1:C:223:PHE:HA	1:C:230:CYS:HA	1.97	0.46
1:C:664:PHE:HB3	1:C:811:CYS:SG	2.56	0.46
1:C:3775:ALA:O	1:C:3779:VAL:HG23	2.16	0.46
1:C:4922:PHE:O	1:C:4927:ILE:N	2.49	0.46
1:C:4931:ILE:O	1:C:4935:LEU:HB2	2.16	0.46
1:E:224:HIS:HA	1:E:388:LEU:HD23	1.97	0.46
1:E:598:LYS:O	1:E:602:VAL:HG23	2.16	0.46
1:E:665:GLU:HG3	1:E:800:PHE:HD1	1.81	0.46
1:E:689:THR:HG23	1:E:776:LEU:O	2.16	0.46
1:E:721:LEU:HD21	1:E:1474:VAL:HG13	1.98	0.46
1:E:937:CYS:HA	1:E:1055:PRO:HA	1.98	0.46
1:E:1116:GLY:HA2	1:E:1121:ALA:HB3	1.97	0.46
1:E:2133:GLU:HA	1:E:2136:ARG:HG2	1.98	0.46
1:E:2162:ILE:HD13	1:E:2178:MET:HG3	1.98	0.46
1:E:2340:PHE:HB2	1:E:2435:ARG:CG	2.46	0.46
1:E:2773:ASN:HB3	1:E:2775:TRP:CD1	2.51	0.46
1:E:3898:ASP:OD1	1:E:3899:PHE:N	2.49	0.46
1:E:3924:LEU:O	1:E:3927:GLN:HB3	2.15	0.46
1:G:358:THR:OG1	1:G:359:TYR:N	2.46	0.46
1:G:665:GLU:HG3	1:G:800:PHE:HD1	1.81	0.46
1:G:689:THR:HG23	1:G:776:LEU:O	2.16	0.46
1:G:1205:GLY:HA2	1:G:1225:PRO:HB2	1.97	0.46
1:G:1761:GLY:O	1:G:1762:LEU:HB3	2.16	0.46
1:G:3990:VAL:HG22	1:G:4047:MET:HB2	1.97	0.46
1:G:4157:ASP:O	1:G:4161:ARG:N	2.41	0.46
1:G:4680:LYS:O	1:G:4684:ASP:CB	2.59	0.46
1:G:4922:PHE:O	1:G:4927:ILE:N	2.49	0.46
1:A:73:LEU:HD23	1:A:99:ARG:NH1	2.31	0.46
1:A:276:TRP:CD1	1:A:338:GLU:CD	2.89	0.46
1:A:472:ARG:NH1	1:A:532:GLY:HA2	2.31	0.46
1:A:904:HIS:HB3	1:A:907:LEU:HG	1.98	0.46
1:A:1077:ALA:O	1:A:1189:LEU:HD13	2.16	0.46
1:A:1761:GLY:O	1:A:1762:LEU:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4692:PRO:CG	1:A:4700:GLN:CD	2.84	0.46
1:C:1761:GLY:O	1:C:1762:LEU:HB3	2.16	0.46
1:C:2123:LEU:HD23	1:C:2126:ARG:HD2	1.98	0.46
1:C:2198:MET:CE	1:C:2203:MET:HE3	2.21	0.46
1:C:2277:ALA:O	1:C:2281:ILE:HG13	2.15	0.46
1:C:2377:LEU:HA	1:C:2380:ILE:HD12	1.97	0.46
1:C:3841:VAL:CG2	1:C:3925:ARG:HD3	2.45	0.46
1:C:3898:ASP:OD1	1:C:3899:PHE:N	2.49	0.46
1:C:4655:PHE:O	1:C:4658:ILE:HG13	2.15	0.46
1:C:4693:GLY:O	1:C:4695:ASP:CA	2.58	0.46
1:E:42:PHE:HD1	1:E:447:ASP:OD2	1.98	0.46
1:E:404:ILE:HG21	1:E:481:GLU:HG2	1.97	0.46
1:E:743:VAL:O	1:E:760:ASN:N	2.39	0.46
1:E:2380:ILE:HG23	1:E:2423:MET:HE1	1.98	0.46
1:E:3958:ALA:O	1:E:3962:PHE:HD2	1.99	0.46
1:G:116:MET:HB2	1:G:137:LEU:HD13	1.97	0.46
1:G:1122:TYR:CZ	1:G:1133:HIS:CE1	2.88	0.46
1:G:1158:ASN:O	1:G:1181:GLU:N	2.48	0.46
1:G:2256:TYR:O	1:G:2260:ASN:CG	2.55	0.46
1:G:3696:ASP:O	1:G:3700:GLN:HG2	2.16	0.46
1:G:4179:GLY:C	1:G:4195:PHE:CE2	2.89	0.46
1:G:4705:VAL:HB	1:G:4778:TRP:CD2	2.51	0.46
1:A:595:ARG:HB3	1:A:1662:PHE:CG	2.43	0.46
1:A:3723:MET:SD	1:A:3793:MET:HA	2.56	0.46
1:A:3775:ALA:O	1:A:3779:VAL:HG23	2.16	0.46
1:A:3835:LEU:HD11	1:A:3880:PHE:HZ	1.80	0.46
1:A:3842:LEU:HD22	1:A:3930:ILE:HD13	1.97	0.46
1:A:3958:ALA:O	1:A:3962:PHE:HD2	1.99	0.46
1:C:73:LEU:HD23	1:C:99:ARG:NH1	2.31	0.46
1:C:276:TRP:CD1	1:C:338:GLU:CD	2.89	0.46
1:C:527:ALA:HB2	1:C:563:VAL:HG22	1.98	0.46
1:C:689:THR:HG23	1:C:776:LEU:O	2.16	0.46
1:C:769:GLU:HB2	1:C:1473:THR:OG1	2.16	0.46
1:C:984:LEU:O	1:C:988:LEU:HG	2.16	0.46
1:C:1116:GLY:HA2	1:C:1121:ALA:HB3	1.97	0.46
1:C:1582:SER:HB2	1:C:1589:PRO:O	2.16	0.46
1:C:1641:ILE:HD12	1:C:1642:PRO:HD2	1.98	0.46
1:C:2326:CYS:O	1:C:2330:ARG:HG2	2.16	0.46
1:C:4920:PHE:CE1	1:C:4924:VAL:HG21	2.51	0.46
1:E:614:VAL:HG13	1:E:617:ASN:HB3	1.96	0.46
1:E:904:HIS:HB3	1:E:907:LEU:HG	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1622:GLU:O	1:E:1626:TRP:HA	2.16	0.46
1:E:2434:GLY:HA3	1:E:2505:PHE:HA	1.98	0.46
1:E:3958:ALA:HB3	1:E:4019:LEU:HD11	1.96	0.46
1:E:4691:GLN:HG3	1:E:4692:PRO:N	2.29	0.46
1:G:107:ILE:HG12	1:G:148:TRP:O	2.16	0.46
1:G:284:HIS:HD2	1:G:287:THR:OG1	1.99	0.46
1:G:472:ARG:NH1	1:G:532:GLY:HA2	2.31	0.46
1:G:1288:PHE:CE2	1:G:1462:HIS:HA	2.43	0.46
1:G:1641:ILE:HD12	1:G:1642:PRO:HD2	1.98	0.46
1:G:2133:GLU:HA	1:G:2136:ARG:HG2	1.98	0.46
1:G:2162:ILE:HD13	1:G:2178:MET:HG3	1.98	0.46
1:G:3835:LEU:HD11	1:G:3880:PHE:HZ	1.80	0.46
1:G:3958:ALA:O	1:G:3962:PHE:HD2	1.99	0.46
1:G:3993:LEU:C	1:G:4054:ASN:HD21	2.17	0.46
1:A:224:HIS:HA	1:A:388:LEU:HD23	1.97	0.45
1:A:234:SER:OG	1:A:242:ARG:HA	2.16	0.45
1:A:540:PHE:HA	1:A:543:ASN:HB3	1.97	0.45
1:A:665:GLU:OE2	1:A:802:PHE:N	2.46	0.45
1:A:1133:HIS:HB2	1:A:1179:PHE:CE1	2.52	0.45
1:A:1835:GLU:HG3	1:A:1932:PRO:HB2	1.97	0.45
1:A:1965:TYR:CD1	1:A:1965:TYR:C	2.90	0.45
1:A:2377:LEU:HA	1:A:2380:ILE:HD12	1.97	0.45
1:A:4991:PHE:CE2	1:A:4995:LEU:HD11	2.51	0.45
1:C:17:ASP:HB2	1:C:98:HIS:CE1	2.51	0.45
1:C:116:MET:HB2	1:C:137:LEU:HD13	1.97	0.45
1:C:665:GLU:HG3	1:C:800:PHE:HD1	1.81	0.45
1:C:2133:GLU:HA	1:C:2136:ARG:HG2	1.98	0.45
1:C:3842:LEU:HD22	1:C:3930:ILE:HD13	1.97	0.45
1:C:4005:GLN:OE1	1:C:4005:GLN:HA	2.15	0.45
1:C:4179:GLY:C	1:C:4195:PHE:CE2	2.89	0.45
1:E:17:ASP:HB2	1:E:98:HIS:CE1	2.51	0.45
1:E:107:ILE:HG12	1:E:148:TRP:O	2.16	0.45
1:E:234:SER:OG	1:E:242:ARG:HA	2.16	0.45
1:E:457:GLU:HG3	1:E:464:LYS:HZ1	1.81	0.45
1:E:682:LEU:O	1:E:716:PHE:N	2.49	0.45
1:E:904:HIS:H	1:E:907:LEU:HD12	1.81	0.45
1:E:1743:ARG:HD2	1:E:1963:GLU:CG	2.47	0.45
1:E:2112:GLN:O	1:E:2113:SER:OG	2.21	0.45
1:E:3695:PRO:HG2	1:E:3700:GLN:OE1	2.15	0.45
1:E:3696:ASP:O	1:E:3700:GLN:HG2	2.16	0.45
1:E:3780:LEU:HD11	1:E:3820:LEU:HD21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4005:GLN:O	1:E:4113:SER:O	2.35	0.45
1:E:4217:PHE:CZ	1:E:4234:PHE:HA	2.50	0.45
1:E:4687:TYR:CE2	1:E:4703:ARG:HA	2.49	0.45
2:F:26:TYR:N	2:F:39:SER:CB	2.63	0.45
1:G:457:GLU:HG3	1:G:464:LYS:HZ1	1.79	0.45
1:G:1077:ALA:O	1:G:1189:LEU:HD13	2.16	0.45
1:G:1835:GLU:HG3	1:G:1932:PRO:HB2	1.97	0.45
1:G:2773:ASN:HB3	1:G:2775:TRP:CD1	2.51	0.45
1:G:4687:TYR:CE2	1:G:4703:ARG:HA	2.49	0.45
1:G:4920:PHE:CE1	1:G:4924:VAL:HG21	2.51	0.45
1:A:280:LEU:N	1:A:314:PHE:O	2.42	0.45
1:A:1641:ILE:HD12	1:A:1642:PRO:HD2	1.98	0.45
1:A:1706:PRO:CA	1:A:1836:PHE:HE2	2.29	0.45
1:A:2256:TYR:O	1:A:2260:ASN:CG	2.55	0.45
1:A:2431:ASP:HB2	1:A:2501:SER:HB2	1.97	0.45
1:A:2773:ASN:HB3	1:A:2775:TRP:CD1	2.51	0.45
1:A:2927:LEU:O	1:A:2930:LEU:HB2	2.16	0.45
1:A:5028:PHE:CE1	1:A:5032:TYR:HE2	2.35	0.45
1:C:224:HIS:HA	1:C:388:LEU:HD23	1.97	0.45
1:C:904:HIS:HB3	1:C:907:LEU:HG	1.98	0.45
1:C:1297:PHE:CB	1:C:1545:ASN:HA	2.42	0.45
1:C:1622:GLU:O	1:C:1626:TRP:HA	2.16	0.45
1:C:2793:PRO:O	1:C:2796:THR:OG1	2.23	0.45
1:C:3670:GLU:OE2	1:C:3731:LYS:HB2	2.17	0.45
1:C:4688:ILE:HG21	1:C:4728:HIS:HB3	1.97	0.45
1:C:4863:TYR:OH	1:C:4886:HIS:HE1	1.99	0.45
1:E:73:LEU:HD23	1:E:99:ARG:NH1	2.31	0.45
1:E:1275:ARG:NH1	1:E:1601:MET:HG2	2.31	0.45
1:E:1641:ILE:HD12	1:E:1642:PRO:HD2	1.98	0.45
1:E:1958:LEU:HD11	1:E:3657:TYR:HE2	1.81	0.45
1:E:3713:LYS:O	1:E:3714:SER:OG	2.29	0.45
1:E:4056:GLU:HG3	1:E:4060:LYS:HE3	1.97	0.45
1:E:4705:VAL:HB	1:E:4778:TRP:CD2	2.51	0.45
1:G:17:ASP:HB2	1:G:98:HIS:CE1	2.51	0.45
1:G:1582:SER:HB2	1:G:1589:PRO:O	2.16	0.45
1:G:1622:GLU:O	1:G:1626:TRP:HA	2.16	0.45
1:G:2326:CYS:O	1:G:2330:ARG:HG2	2.16	0.45
1:G:2760:GLU:O	1:G:2764:GLU:HG3	2.16	0.45
1:G:3670:GLU:OE2	1:G:3731:LYS:HB2	2.17	0.45
1:G:3696:ASP:O	1:G:3700:GLN:N	2.49	0.45
1:G:4991:PHE:CE2	1:G:4995:LEU:HD11	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:ARG:O	1:A:284:HIS:HE1	1.99	0.45
1:A:682:LEU:HD22	1:A:787:VAL:HG11	1.86	0.45
1:A:1205:GLY:O	1:A:1209:SER:OG	2.34	0.45
1:A:2123:LEU:HD23	1:A:2126:ARG:HD2	1.98	0.45
1:A:2142:TYR:CE2	1:A:2197:LEU:HB2	2.50	0.45
1:C:640:TYR:CD1	1:C:1636:MET:HE2	2.51	0.45
1:C:904:HIS:H	1:C:907:LEU:HD12	1.81	0.45
1:C:1077:ALA:O	1:C:1189:LEU:HD13	2.16	0.45
1:C:1205:GLY:O	1:C:1209:SER:OG	2.34	0.45
1:C:1733:GLU:CD	1:C:2163:ARG:HH22	2.17	0.45
1:C:1808:ARG:HA	1:C:1848:LEU:HD21	1.99	0.45
1:C:1965:TYR:CD1	1:C:1965:TYR:C	2.90	0.45
1:C:2339:VAL:O	1:C:2346:VAL:HG22	2.17	0.45
1:C:2357:LEU:O	1:C:2361:PRO:HD3	2.16	0.45
1:C:3829:PHE:CD1	1:C:3915:ILE:HD11	2.51	0.45
1:C:4725:LEU:HD13	1:C:4734:ARG:HD2	1.99	0.45
1:C:4908:GLU:HG2	1:C:4912:TYR:HE2	1.82	0.45
1:E:664:PHE:HB3	1:E:811:CYS:SG	2.56	0.45
1:E:1077:ALA:O	1:E:1189:LEU:HD13	2.16	0.45
1:E:1131:ARG:HD3	1:E:1139:PHE:CD1	2.51	0.45
1:E:1663:HIS:O	1:E:1666:THR:OG1	2.23	0.45
1:E:2151:ASP:OD1	1:E:2188:ASN:ND2	2.50	0.45
1:E:2256:TYR:O	1:E:2260:ASN:CG	2.55	0.45
1:E:3970:GLN:HE22	1:E:4029:SER:HB2	1.71	0.45
1:E:4863:TYR:OH	1:E:4886:HIS:HE1	1.99	0.45
1:E:5028:PHE:CE1	1:E:5032:TYR:HE2	2.35	0.45
1:G:223:PHE:CD1	1:G:230:CYS:HB3	2.52	0.45
1:G:299:LEU:HB2	1:G:378:LEU:HG	1.97	0.45
1:G:1297:PHE:CB	1:G:1545:ASN:HA	2.42	0.45
1:G:1708:ARG:CZ	1:G:1712:TYR:CE2	2.99	0.45
1:G:1965:TYR:CD1	1:G:1965:TYR:C	2.90	0.45
1:G:2151:ASP:OD1	1:G:2188:ASN:ND2	2.50	0.45
1:G:3780:LEU:HD11	1:G:3820:LEU:HD21	1.97	0.45
1:G:4661:TYR:CE2	1:G:4789:PHE:HB2	2.51	0.45
1:A:107:ILE:HG12	1:A:148:TRP:O	2.16	0.45
1:A:167:ASP:CG	1:C:384:MET:HE1	2.37	0.45
1:A:211:GLU:OE2	1:A:3907:THR:HB	2.17	0.45
1:A:275:ARG:O	1:A:278:GLN:HG2	2.17	0.45
1:A:689:THR:HG23	1:A:776:LEU:O	2.16	0.45
1:A:3829:PHE:CD1	1:A:3915:ILE:HD11	2.51	0.45
1:A:3898:ASP:OD1	1:A:3899:PHE:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4580:TYR:CE1	1:A:4631:PHE:HD1	2.35	0.45
1:C:42:PHE:HD1	1:C:447:ASP:OD2	1.98	0.45
1:C:1133:HIS:HB2	1:C:1179:PHE:CE1	2.52	0.45
1:C:1716:ILE:O	1:C:1721:GLU:N	2.49	0.45
1:C:2142:TYR:CE2	1:C:2197:LEU:HB2	2.50	0.45
1:C:2340:PHE:HB2	1:C:2435:ARG:CG	2.46	0.45
1:C:3696:ASP:O	1:C:3700:GLN:HG2	2.16	0.45
1:C:4580:TYR:CE1	1:C:4631:PHE:HD1	2.35	0.45
1:C:4705:VAL:HB	1:C:4778:TRP:CD2	2.51	0.45
1:E:1091:GLU:HG2	1:E:1213:PHE:CE1	2.51	0.45
1:E:1205:GLY:HA2	1:E:1225:PRO:HB2	1.97	0.45
1:E:1716:ILE:HD12	1:E:1847:THR:OG1	2.17	0.45
1:E:1808:ARG:HA	1:E:1848:LEU:HD21	1.99	0.45
1:E:2256:TYR:O	1:E:2260:ASN:ND2	2.49	0.45
1:E:2339:VAL:O	1:E:2346:VAL:HG22	2.17	0.45
1:E:4661:TYR:CE2	1:E:4789:PHE:HB2	2.51	0.45
1:E:4920:PHE:CE1	1:E:4924:VAL:HG21	2.51	0.45
1:E:4991:PHE:CE2	1:E:4995:LEU:HD11	2.51	0.45
1:E:4991:PHE:CE2	1:E:5010:VAL:HG11	2.48	0.45
1:G:515:TRP:HH2	1:G:555:GLU:HG3	1.65	0.45
1:G:598:LYS:O	1:G:602:VAL:HG23	2.16	0.45
1:G:1133:HIS:HB2	1:G:1179:PHE:CE1	2.52	0.45
1:G:1545:ASN:HD22	1:G:1545:ASN:N	2.14	0.45
1:G:1958:LEU:HD11	1:G:3657:TYR:HE2	1.81	0.45
1:G:2431:ASP:HB2	1:G:2501:SER:HB2	1.97	0.45
1:G:2793:PRO:O	1:G:2796:THR:OG1	2.23	0.45
1:G:3695:PRO:HG2	1:G:3700:GLN:OE1	2.15	0.45
1:A:404:ILE:HG21	1:A:481:GLU:HG2	1.97	0.45
1:A:644:ILE:HD13	1:A:1628:VAL:HG21	1.99	0.45
1:A:664:PHE:HB3	1:A:811:CYS:SG	2.56	0.45
1:A:1582:SER:HB2	1:A:1589:PRO:O	2.16	0.45
1:A:4056:GLU:HG3	1:A:4060:LYS:HE3	1.97	0.45
1:C:223:PHE:CD1	1:C:230:CYS:HB3	2.52	0.45
1:C:595:ARG:HB3	1:C:1662:PHE:CG	2.43	0.45
1:C:602:VAL:O	1:C:605:SER:OG	2.25	0.45
1:C:1131:ARG:CD	1:C:1139:PHE:CB	2.81	0.45
1:C:1706:PRO:CA	1:C:1836:PHE:HE2	2.29	0.45
1:C:2256:TYR:O	1:C:2260:ASN:CG	2.55	0.45
1:C:2927:LEU:O	1:C:2930:LEU:HB2	2.16	0.45
1:C:3817:LEU:HD13	1:C:3899:PHE:CD1	2.52	0.45
1:C:4219:PHE:O	1:C:4223:ASN:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:596:ASN:HD22	1:E:596:ASN:HA	1.52	0.45
1:E:1582:SER:HB2	1:E:1589:PRO:O	2.16	0.45
1:E:1727:ARG:CD	1:E:1772:ARG:HD3	2.47	0.45
1:E:2123:LEU:HD23	1:E:2126:ARG:HD2	1.98	0.45
1:E:2280:VAL:HG11	1:E:2338:ALA:HA	1.98	0.45
1:E:2927:LEU:O	1:E:2930:LEU:HB2	2.16	0.45
1:E:3969:ILE:HG21	1:E:4030:LEU:HA	1.97	0.45
1:E:3993:LEU:O	1:E:3997:ALA:N	2.49	0.45
1:E:4688:ILE:HG21	1:E:4728:HIS:HB3	1.97	0.45
1:E:4908:GLU:HG2	1:E:4912:TYR:HE2	1.82	0.45
1:G:257:ARG:O	1:G:284:HIS:HE1	1.99	0.45
1:G:276:TRP:CD1	1:G:338:GLU:CD	2.89	0.45
1:G:937:CYS:HA	1:G:1055:PRO:HA	1.98	0.45
1:G:1091:GLU:HG2	1:G:1213:PHE:CE1	2.51	0.45
1:G:1132:TRP:NE1	1:G:1136:SER:HB3	2.31	0.45
1:G:1205:GLY:O	1:G:1209:SER:OG	2.34	0.45
1:G:2339:VAL:O	1:G:2346:VAL:HG22	2.17	0.45
1:G:4725:LEU:HD13	1:G:4734:ARG:HD2	1.99	0.45
1:A:46:LEU:HD13	1:A:125:ARG:CD	2.47	0.45
1:A:149:THR:HG23	1:A:174:VAL:HG22	1.99	0.45
1:A:223:PHE:CD1	1:A:230:CYS:HB3	2.52	0.45
1:A:598:LYS:O	1:A:602:VAL:HG23	2.16	0.45
1:A:682:LEU:HD12	1:A:682:LEU:HA	1.80	0.45
1:A:1293:LEU:HD22	1:A:1599:MET:SD	2.57	0.45
1:A:1545:ASN:N	1:A:1545:ASN:HD22	2.14	0.45
1:A:1663:HIS:O	1:A:1666:THR:OG1	2.23	0.45
1:A:1716:ILE:HD12	1:A:1847:THR:OG1	2.17	0.45
1:A:2256:TYR:O	1:A:2260:ASN:ND2	2.49	0.45
1:A:2591:UNK:O	1:A:2595:UNK:N	2.50	0.45
1:A:4693:GLY:O	1:A:4695:ASP:CA	2.58	0.45
1:A:4802:GLY:CA	1:A:4809:PHE:HB2	2.47	0.45
1:A:4862:PHE:CE2	1:A:4913:ARG:HD2	2.52	0.45
1:A:4901:ILE:HG12	1:A:4902:GLU:N	2.32	0.45
1:C:644:ILE:HD13	1:C:1628:VAL:HG21	1.99	0.45
1:C:1545:ASN:HD22	1:C:1545:ASN:N	2.14	0.45
1:C:2227:LYS:O	1:C:2230:THR:OG1	2.18	0.45
1:C:2434:GLY:HA3	1:C:2505:PHE:HA	1.98	0.45
1:C:3817:LEU:HB2	1:C:3899:PHE:HD1	1.82	0.45
1:C:3990:VAL:HG22	1:C:4047:MET:HB2	1.97	0.45
1:C:4901:ILE:HD13	1:C:4913:ARG:NH2	2.28	0.45
1:E:183:SER:O	1:E:190:GLN:N	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2357:LEU:O	1:E:2361:PRO:HD3	2.16	0.45
1:E:3670:GLU:OE2	1:E:3731:LYS:HB2	2.17	0.45
1:E:4725:LEU:HD13	1:E:4734:ARG:HD2	1.99	0.45
1:E:4913:ARG:NH1	1:G:4888:TYR:OH	2.48	0.45
1:G:275:ARG:HA	1:G:338:GLU:OE1	2.17	0.45
1:G:404:ILE:HG21	1:G:481:GLU:HG2	1.97	0.45
1:G:682:LEU:O	1:G:716:PHE:N	2.49	0.45
1:G:769:GLU:HB2	1:G:1473:THR:OG1	2.16	0.45
1:G:1777:PHE:HD1	1:G:1799:SER:HB2	1.82	0.45
1:G:1808:ARG:HA	1:G:1848:LEU:HD21	1.99	0.45
1:G:2591:UNK:O	1:G:2595:UNK:N	2.50	0.45
1:G:2927:LEU:O	1:G:2930:LEU:HB2	2.16	0.45
1:G:4580:TYR:CE1	1:G:4631:PHE:HD1	2.35	0.45
1:A:1230:MET:HG2	1:A:1828:ASP:HA	1.99	0.45
1:A:1727:ARG:CD	1:A:1772:ARG:HD3	2.47	0.45
1:A:4922:PHE:O	1:A:4927:ILE:N	2.49	0.45
1:C:46:LEU:HD13	1:C:125:ARG:CD	2.47	0.45
1:C:682:LEU:O	1:C:716:PHE:N	2.49	0.45
1:C:1716:ILE:HD12	1:C:1847:THR:OG1	2.17	0.45
1:C:2591:UNK:O	1:C:2595:UNK:N	2.50	0.45
1:C:2758:PHE:HD2	1:C:2809:ILE:HD13	1.82	0.45
1:C:4005:GLN:O	1:C:4113:SER:O	2.35	0.45
1:C:4978:HIS:O	1:C:4982:GLU:HB2	2.17	0.45
1:E:275:ARG:HA	1:E:338:GLU:OE1	2.17	0.45
1:E:769:GLU:HB2	1:E:1473:THR:OG1	2.16	0.45
1:E:1230:MET:HG2	1:E:1828:ASP:HA	1.99	0.45
1:E:1285:GLU:HG3	1:E:1555:LEU:HD11	1.99	0.45
1:E:1955:VAL:HG22	1:E:2134:LEU:HG	1.99	0.45
1:E:3669:PHE:HD1	1:E:3669:PHE:N	2.15	0.45
1:E:3817:LEU:HB2	1:E:3899:PHE:HD1	1.82	0.45
1:E:4732:PHE:CE1	1:E:4736:ARG:HD2	2.51	0.45
1:E:4862:PHE:CE2	1:E:4913:ARG:HD2	2.52	0.45
1:E:4901:ILE:HG12	1:E:4902:GLU:N	2.32	0.45
1:G:721:LEU:HD21	1:G:1474:VAL:HG13	1.98	0.45
1:G:2280:VAL:HG11	1:G:2338:ALA:HA	1.98	0.45
1:G:4862:PHE:CE2	1:G:4913:ARG:HD2	2.52	0.45
1:A:675:LEU:O	1:A:676:THR:OG1	2.28	0.45
1:A:682:LEU:O	1:A:716:PHE:N	2.49	0.45
1:A:1275:ARG:NH1	1:A:1601:MET:HG2	2.31	0.45
1:A:1777:PHE:HD1	1:A:1799:SER:HB2	1.82	0.45
1:A:2151:ASP:OD1	1:A:2188:ASN:ND2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2339:VAL:O	1:A:2346:VAL:HG22	2.17	0.45
1:A:2357:LEU:O	1:A:2361:PRO:HD3	2.16	0.45
1:A:4661:TYR:CE2	1:A:4789:PHE:HB2	2.51	0.45
1:A:4725:LEU:HD13	1:A:4734:ARG:HD2	1.99	0.45
1:A:4904:PRO:CB	1:A:4910:GLU:HG3	2.35	0.45
1:C:5028:PHE:CE1	1:C:5032:TYR:HE2	2.35	0.45
1:E:217:GLY:O	1:E:261:ARG:NH1	2.50	0.45
1:E:257:ARG:O	1:E:284:HIS:HE1	1.99	0.45
1:E:554:LEU:CD1	1:E:593:HIS:HE2	2.25	0.45
1:E:1022:VAL:HB	1:E:1023:PRO:HD2	1.99	0.45
1:E:1777:PHE:HD1	1:E:1799:SER:HB2	1.82	0.45
1:E:2758:PHE:HD2	1:E:2809:ILE:HD13	1.82	0.45
1:E:2760:GLU:O	1:E:2764:GLU:HG3	2.16	0.45
1:G:210:GLU:H	1:G:273:HIS:CE1	2.35	0.45
1:G:644:ILE:HD13	1:G:1628:VAL:HG21	1.99	0.45
1:G:1131:ARG:HD3	1:G:1139:PHE:CD1	2.51	0.45
1:G:1730:MET:HE1	1:G:2159:LEU:HB2	1.98	0.45
1:G:4191:GLU:OE1	1:G:5006:GLN:NE2	2.40	0.45
1:A:1836:PHE:O	1:A:1840:PRO:HD2	2.17	0.45
1:A:2280:VAL:HG11	1:A:2338:ALA:HA	1.98	0.45
1:A:4908:GLU:HG2	1:A:4912:TYR:HE2	1.82	0.45
1:C:149:THR:HG23	1:C:174:VAL:HG22	1.99	0.45
1:C:210:GLU:H	1:C:273:HIS:CE1	2.35	0.45
1:C:211:GLU:OE2	1:C:3907:THR:HB	2.17	0.45
1:C:1091:GLU:HG2	1:C:1213:PHE:CE1	2.51	0.45
1:C:1293:LEU:HD22	1:C:1599:MET:SD	2.57	0.45
1:C:1727:ARG:CD	1:C:1772:ARG:HD3	2.47	0.45
1:C:2256:TYR:O	1:C:2260:ASN:ND2	2.49	0.45
1:E:275:ARG:O	1:E:278:GLN:HG2	2.17	0.45
1:E:737:LEU:HB3	1:E:738:LEU:H	1.55	0.45
1:E:984:LEU:O	1:E:988:LEU:HG	2.16	0.45
1:E:1252:HIS:CG	1:E:1253:PRO:HD2	2.52	0.45
1:E:1585:LYS:HE2	1:E:1596:GLU:OE1	2.17	0.45
1:E:1716:ILE:O	1:E:1721:GLU:N	2.49	0.45
1:E:1762:LEU:CD1	1:E:1762:LEU:C	2.85	0.45
1:E:3829:PHE:CD1	1:E:3915:ILE:HD11	2.51	0.45
1:E:4219:PHE:O	1:E:4223:ASN:HB3	2.17	0.45
1:E:4580:TYR:HD2	1:E:4807:PHE:CZ	2.35	0.45
2:F:56:ILE:HB	2:F:81:ALA:HA	1.99	0.45
1:G:73:LEU:HD23	1:G:99:ARG:NH1	2.31	0.45
1:G:161:GLU:OE2	1:G:164:ARG:NH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:284:HIS:HD2	1:G:287:THR:H	1.63	0.45
1:G:641:VAL:HG21	1:G:704:GLY:HA2	1.99	0.45
1:G:904:HIS:HB3	1:G:907:LEU:HG	1.98	0.45
1:G:904:HIS:H	1:G:907:LEU:HD12	1.81	0.45
1:G:1291:LEU:HD23	1:G:1293:LEU:N	2.29	0.45
1:G:1743:ARG:HD2	1:G:1963:GLU:CG	2.47	0.45
1:G:2123:LEU:HD23	1:G:2126:ARG:HD2	1.98	0.45
1:G:2247:GLN:HE21	1:G:2279:SER:C	2.20	0.45
1:G:4802:GLY:CA	1:G:4809:PHE:HB2	2.47	0.45
1:G:5028:PHE:CE1	1:G:5032:TYR:HE2	2.35	0.45
1:A:217:GLY:O	1:A:261:ARG:NH1	2.50	0.45
1:A:275:ARG:HA	1:A:338:GLU:OE1	2.17	0.45
1:A:358:THR:OG1	1:A:359:TYR:N	2.46	0.45
1:A:665:GLU:HG3	1:A:800:PHE:HD1	1.81	0.45
1:A:937:CYS:HA	1:A:1055:PRO:HA	1.98	0.45
1:A:1132:TRP:NE1	1:A:1136:SER:HB3	2.31	0.45
1:A:3667:HIS:O	1:A:3669:PHE:CD1	2.70	0.45
1:A:4181:ILE:CD1	1:A:4991:PHE:CD1	2.95	0.45
1:A:4222:VAL:HB	1:A:4950:VAL:HG22	1.99	0.45
1:A:4732:PHE:CE1	1:A:4736:ARG:HD2	2.51	0.45
1:C:275:ARG:O	1:C:278:GLN:HG2	2.17	0.45
1:C:1291:LEU:HD23	1:C:1293:LEU:N	2.29	0.45
1:C:2773:ASN:HB3	1:C:2775:TRP:CD1	2.51	0.45
1:C:3841:VAL:HG12	1:C:3843:ASP:N	2.31	0.45
1:C:4862:PHE:CE2	1:C:4913:ARG:HD2	2.52	0.45
1:C:4904:PRO:CB	1:C:4910:GLU:HG3	2.35	0.45
1:E:118:LEU:HA	1:E:137:LEU:HD23	1.99	0.45
1:E:211:GLU:OE2	1:E:3907:THR:HB	2.17	0.45
1:E:644:ILE:HD13	1:E:1628:VAL:HG21	1.99	0.45
1:E:1133:HIS:HD2	1:E:1134:LEU:HB2	1.82	0.45
1:E:1133:HIS:HB2	1:E:1179:PHE:CE1	2.52	0.45
1:E:1545:ASN:HD22	1:E:1545:ASN:N	2.14	0.45
1:E:1694:LEU:HB3	1:E:1715:LEU:HD12	1.99	0.45
1:E:2066:LEU:O	1:E:2070:VAL:HG23	2.17	0.45
1:E:2326:CYS:O	1:E:2330:ARG:HG2	2.16	0.45
1:E:2591:UNK:O	1:E:2595:UNK:N	2.50	0.45
1:G:527:ALA:HB2	1:G:563:VAL:HG22	1.98	0.45
1:G:1099:GLU:HG2	1:G:1127:HIS:HB3	1.99	0.45
1:G:1762:LEU:CD1	1:G:1762:LEU:C	2.85	0.45
1:G:2745:VAL:HG21	1:G:2818:ALA:HB2	1.99	0.45
1:G:4688:ILE:HG21	1:G:4728:HIS:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4863:TYR:OH	1:G:4886:HIS:HE1	1.99	0.45
1:G:4991:PHE:CE2	1:G:5010:VAL:HG11	2.48	0.45
1:A:210:GLU:H	1:A:273:HIS:CE1	2.35	0.44
1:A:1091:GLU:HG2	1:A:1213:PHE:CE1	2.51	0.44
1:A:1288:PHE:CE2	1:A:1462:HIS:HA	2.43	0.44
1:A:1657:LEU:O	1:A:1660:GLN:HB3	2.17	0.44
1:A:2326:CYS:O	1:A:2330:ARG:HG2	2.16	0.44
1:A:3669:PHE:HD1	1:A:3669:PHE:N	2.15	0.44
1:A:3669:PHE:O	1:A:3670:GLU:C	2.54	0.44
1:A:3924:LEU:HD23	1:A:3988:ALA:HB2	1.99	0.44
1:A:4005:GLN:O	1:A:4113:SER:O	2.35	0.44
1:C:1585:LYS:HE2	1:C:1596:GLU:OE1	2.17	0.44
1:C:1657:LEU:O	1:C:1660:GLN:HB3	2.17	0.44
1:C:1743:ARG:HD2	1:C:1963:GLU:CG	2.47	0.44
1:C:2162:ILE:HD13	1:C:2178:MET:HG3	1.98	0.44
1:C:3889:GLN:O	1:C:3893:GLU:HG3	2.18	0.44
1:C:4661:TYR:CE2	1:C:4789:PHE:HB2	2.51	0.44
1:E:557:SER:HA	1:E:560:ILE:HD13	1.99	0.44
1:E:1293:LEU:HD22	1:E:1599:MET:SD	2.57	0.44
1:E:1579:MET:O	1:E:1582:SER:OG	2.15	0.44
1:E:1761:GLY:O	1:E:1762:LEU:HB3	2.16	0.44
1:G:16:THR:O	1:G:98:HIS:ND1	2.48	0.44
1:G:149:THR:HG23	1:G:174:VAL:HG22	1.99	0.44
1:G:211:GLU:OE2	1:G:3907:THR:HB	2.17	0.44
1:G:217:GLY:O	1:G:261:ARG:NH1	2.50	0.44
1:G:1252:HIS:CG	1:G:1253:PRO:HD2	2.52	0.44
1:G:1275:ARG:NH1	1:G:1601:MET:HG2	2.31	0.44
1:G:1657:LEU:O	1:G:1660:GLN:HB3	2.17	0.44
1:G:1704:PRO:HG2	1:G:1707:LEU:HD12	2.00	0.44
1:G:1716:ILE:HD12	1:G:1847:THR:OG1	2.17	0.44
1:G:1836:PHE:O	1:G:1840:PRO:HD2	2.17	0.44
1:G:2256:TYR:O	1:G:2260:ASN:ND2	2.49	0.44
1:G:3667:HIS:O	1:G:3669:PHE:CD1	2.70	0.44
2:H:56:ILE:HB	2:H:81:ALA:HA	1.99	0.44
1:A:721:LEU:HD21	1:A:1474:VAL:HG13	1.98	0.44
1:A:1127:HIS:O	1:A:1129:GLY:N	2.43	0.44
1:A:1853:ILE:O	1:A:1854:PHE:CG	2.70	0.44
1:A:1955:VAL:HG22	1:A:2134:LEU:HG	1.99	0.44
1:A:2162:ILE:HD13	1:A:2178:MET:HG3	1.98	0.44
1:A:2758:PHE:HD2	1:A:2809:ILE:HD13	1.82	0.44
1:A:3709:ALA:HB2	1:A:3782:MET:SD	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:13:PHE:HE2	1:C:164:ARG:HH12	1.51	0.44
1:C:457:GLU:HG3	1:C:464:LYS:HZ1	1.83	0.44
1:C:1275:ARG:NH1	1:C:1601:MET:HG2	2.31	0.44
1:C:1762:LEU:CD1	1:C:1762:LEU:C	2.85	0.44
1:C:3669:PHE:HD1	1:C:3669:PHE:N	2.15	0.44
1:C:4991:PHE:CE2	1:C:4995:LEU:HD11	2.51	0.44
1:E:161:GLU:CG	1:G:3984:ARG:CD	2.94	0.44
1:E:1132:TRP:CD1	1:E:1135:GLY:C	2.91	0.44
1:E:1452:TRP:CE2	1:E:1519:LEU:HD22	2.53	0.44
1:E:1965:TYR:C	1:E:1965:TYR:CD1	2.90	0.44
1:E:2143:THR:N	1:E:3651:ASN:OD1	2.38	0.44
1:G:46:LEU:HD13	1:G:125:ARG:CD	2.47	0.44
1:G:1022:VAL:HB	1:G:1023:PRO:HD2	1.99	0.44
1:G:1123:VAL:O	1:G:1132:TRP:N	2.30	0.44
1:G:1285:GLU:HG3	1:G:1555:LEU:HD11	1.99	0.44
1:G:1452:TRP:CB	1:G:1527:MET:CE	2.75	0.44
1:G:1466:PHE:HA	1:G:1467:ASP:HA	1.70	0.44
1:G:1698:LEU:HD11	1:G:1715:LEU:HD13	2.00	0.44
1:G:1708:ARG:NH2	1:G:1712:TYR:OH	2.51	0.44
1:G:1770:SER:OG	1:G:1771:LEU:N	2.49	0.44
1:G:2357:LEU:O	1:G:2361:PRO:HD3	2.16	0.44
1:G:3709:ALA:HB2	1:G:3782:MET:SD	2.57	0.44
1:G:4908:GLU:HG2	1:G:4912:TYR:HE2	1.82	0.44
1:A:17:ASP:HB2	1:A:98:HIS:CE1	2.51	0.44
1:A:23:GLN:HE21	1:A:34:LYS:HB3	1.83	0.44
1:A:118:LEU:HA	1:A:137:LEU:HD23	1.99	0.44
1:A:215:THR:O	1:A:218:HIS:HB2	2.17	0.44
1:A:1131:ARG:HD3	1:A:1139:PHE:CD1	2.51	0.44
1:A:1252:HIS:CG	1:A:1253:PRO:HD2	2.52	0.44
1:A:1285:GLU:HG3	1:A:1555:LEU:HD11	1.99	0.44
1:A:1452:TRP:CE2	1:A:1519:LEU:HD22	2.53	0.44
1:A:1708:ARG:CZ	1:A:1712:TYR:CE2	2.99	0.44
1:A:2247:GLN:HE21	1:A:2279:SER:C	2.20	0.44
1:A:4904:PRO:CB	1:A:4910:GLU:HG2	2.24	0.44
2:B:56:ILE:HB	2:B:81:ALA:HA	1.99	0.44
1:C:118:LEU:HA	1:C:137:LEU:HD23	1.99	0.44
1:C:183:SER:O	1:C:190:GLN:N	2.34	0.44
1:C:257:ARG:O	1:C:284:HIS:HE1	1.99	0.44
1:C:1274:HIS:HB2	1:C:1564:PHE:O	2.18	0.44
1:C:1285:GLU:HG3	1:C:1555:LEU:HD11	1.99	0.44
1:C:1944:GLU:HG3	1:C:2123:LEU:HD21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:56:ILE:HB	2:D:81:ALA:HA	1.99	0.44
1:E:46:LEU:HD13	1:E:125:ARG:CD	2.47	0.44
1:E:223:PHE:CD1	1:E:230:CYS:HB3	2.52	0.44
1:E:527:ALA:HB2	1:E:563:VAL:HG22	1.98	0.44
1:E:1097:THR:HA	1:E:1143:TRP:CH2	2.53	0.44
1:E:1274:HIS:HB2	1:E:1564:PHE:O	2.18	0.44
1:E:1836:PHE:O	1:E:1840:PRO:HD2	2.17	0.44
1:E:1853:ILE:O	1:E:1854:PHE:CG	2.70	0.44
1:E:4922:PHE:O	1:E:4927:ILE:N	2.49	0.44
1:G:2752:ASP:HA	1:G:2755:ILE:HD12	2.00	0.44
1:G:4005:GLN:O	1:G:4113:SER:O	2.35	0.44
1:G:4732:PHE:CE1	1:G:4736:ARG:HD2	2.51	0.44
1:A:527:ALA:HB2	1:A:563:VAL:HG22	1.98	0.44
1:A:558:SER:O	1:A:561:LEU:N	2.51	0.44
1:A:641:VAL:HG21	1:A:704:GLY:HA2	1.99	0.44
1:A:1132:TRP:CD1	1:A:1135:GLY:C	2.91	0.44
1:A:1704:PRO:HG2	1:A:1707:LEU:HD12	2.00	0.44
1:A:3817:LEU:HD13	1:A:3899:PHE:CD1	2.52	0.44
1:A:4580:TYR:HD2	1:A:4807:PHE:CZ	2.35	0.44
1:A:4863:TYR:OH	1:A:4886:HIS:HE1	1.99	0.44
1:C:23:GLN:HE21	1:C:34:LYS:HB3	1.83	0.44
1:C:161:GLU:HG2	1:E:3984:ARG:HD3	1.99	0.44
1:C:217:GLY:O	1:C:261:ARG:NH1	2.50	0.44
1:C:571:SER:HA	1:C:572:PRO:HD2	1.92	0.44
1:C:1252:HIS:CG	1:C:1253:PRO:HD2	2.52	0.44
1:C:1777:PHE:CD1	1:C:1799:SER:HB2	2.52	0.44
1:C:3667:HIS:O	1:C:3669:PHE:CD1	2.70	0.44
1:C:4039:MET:O	1:C:4043:GLN:HG2	2.18	0.44
1:C:4913:ARG:NH1	1:E:4888:TYR:OH	2.48	0.44
1:E:161:GLU:OE2	1:E:164:ARG:NH2	2.50	0.44
1:E:514:SER:O	1:E:518:ILE:HG13	2.17	0.44
1:E:1704:PRO:HG2	1:E:1707:LEU:HD12	2.00	0.44
1:E:1944:GLU:HG3	1:E:2123:LEU:HD21	1.99	0.44
1:E:2227:LYS:O	1:E:2230:THR:OG1	2.18	0.44
1:E:4978:HIS:O	1:E:4982:GLU:HB2	2.17	0.44
2:F:26:TYR:CE1	2:F:39:SER:HB3	2.53	0.44
1:G:118:LEU:HA	1:G:137:LEU:HD23	1.99	0.44
1:G:275:ARG:O	1:G:278:GLN:HG2	2.17	0.44
1:G:1230:MET:HG2	1:G:1828:ASP:HA	1.99	0.44
1:G:1727:ARG:CD	1:G:1772:ARG:HD3	2.47	0.44
1:G:1955:VAL:HG22	1:G:2134:LEU:HG	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2256:TYR:CD1	1:G:2260:ASN:ND2	2.63	0.44
1:G:2380:ILE:HG23	1:G:2423:MET:HE1	1.99	0.44
1:G:4222:VAL:HB	1:G:4950:VAL:HG22	1.99	0.44
1:G:4978:HIS:O	1:G:4982:GLU:HB2	2.17	0.44
1:A:223:PHE:HE1	1:A:253:CYS:HG	1.64	0.44
1:A:640:TYR:CD1	1:A:1636:MET:HE2	2.52	0.44
1:A:1022:VAL:HB	1:A:1023:PRO:HD2	1.99	0.44
1:A:1808:ARG:HA	1:A:1848:LEU:HD21	1.99	0.44
1:A:2143:THR:N	1:A:3651:ASN:OD1	2.38	0.44
1:A:3696:ASP:O	1:A:3700:GLN:N	2.49	0.44
1:A:4802:GLY:HA2	1:A:4805:ASN:O	2.18	0.44
1:C:275:ARG:HA	1:C:338:GLU:OE1	2.17	0.44
1:C:1022:VAL:HB	1:C:1023:PRO:HD2	1.99	0.44
1:C:1131:ARG:HD3	1:C:1139:PHE:CD1	2.51	0.44
1:C:1132:TRP:CD1	1:C:1135:GLY:C	2.91	0.44
1:C:1708:ARG:NH2	1:C:1712:TYR:OH	2.51	0.44
1:C:2095:GLN:HG3	1:C:2127:GLN:HB3	2.00	0.44
1:C:2204:HIS:O	1:C:2208:MET:HE2	2.18	0.44
1:C:2280:VAL:HG11	1:C:2338:ALA:HA	1.98	0.44
1:E:1100:MET:HB3	1:E:1100:MET:HE3	1.88	0.44
1:E:1810:LYS:NZ	1:E:1813:ARG:HH22	2.16	0.44
1:E:3767:GLN:CD	1:E:3809:ASN:HD21	2.21	0.44
1:E:3817:LEU:HD13	1:E:3899:PHE:CD1	2.52	0.44
1:E:4208:PRO:HB2	1:E:4209:GLN:H	1.63	0.44
1:E:4580:TYR:CE1	1:E:4631:PHE:HD1	2.35	0.44
1:G:514:SER:O	1:G:518:ILE:HG13	2.17	0.44
1:G:545:ASP:OD1	1:G:546:TRP:N	2.51	0.44
1:G:1133:HIS:HD2	1:G:1134:LEU:HB2	1.82	0.44
1:G:1293:LEU:HD22	1:G:1599:MET:SD	2.57	0.44
1:G:1552:VAL:HG12	1:G:1554:VAL:HG23	2.00	0.44
1:G:3817:LEU:HB2	1:G:3899:PHE:HD1	1.82	0.44
1:G:3829:PHE:CD1	1:G:3915:ILE:HD11	2.51	0.44
1:G:4221:VAL:O	1:G:4225:GLY:N	2.51	0.44
1:A:516:LYS:NZ	1:A:555:GLU:O	2.50	0.44
1:A:1694:LEU:HB3	1:A:1715:LEU:HD12	1.99	0.44
1:A:1708:ARG:NH2	1:A:1712:TYR:OH	2.51	0.44
1:A:1856:ASP:O	1:A:1859:VAL:HB	2.17	0.44
1:A:2066:LEU:O	1:A:2070:VAL:HG23	2.17	0.44
1:A:3670:GLU:OE2	1:A:3731:LYS:HB2	2.17	0.44
1:A:3817:LEU:HB2	1:A:3899:PHE:HD1	1.82	0.44
1:A:4039:MET:O	1:A:4043:GLN:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:545:ASP:OD1	1:C:546:TRP:N	2.51	0.44
1:C:721:LEU:HD21	1:C:1474:VAL:HG13	1.98	0.44
1:C:1127:HIS:O	1:C:1129:GLY:N	2.43	0.44
1:C:4802:GLY:CA	1:C:4809:PHE:HB2	2.47	0.44
2:D:26:TYR:N	2:D:39:SER:CB	2.63	0.44
1:E:23:GLN:HE21	1:E:34:LYS:HB3	1.83	0.44
1:E:516:LYS:NZ	1:E:555:GLU:O	2.50	0.44
1:E:1829:PRO:O	1:E:1831:GLY:N	2.51	0.44
1:G:737:LEU:HB3	1:G:738:LEU:H	1.55	0.44
1:G:1585:LYS:HE2	1:G:1596:GLU:OE1	2.17	0.44
1:G:3817:LEU:HD13	1:G:3899:PHE:CD1	2.52	0.44
1:G:4181:ILE:CG2	1:G:4195:PHE:CD2	2.96	0.44
1:A:2752:ASP:HA	1:A:2755:ILE:HD12	2.00	0.44
1:A:2907:PRO:O	1:A:2910:THR:OG1	2.14	0.44
1:A:4219:PHE:O	1:A:4223:ASN:HB3	2.17	0.44
1:A:4221:VAL:O	1:A:4225:GLY:N	2.51	0.44
1:C:516:LYS:NZ	1:C:555:GLU:O	2.50	0.44
1:C:557:SER:HA	1:C:560:ILE:HD13	1.99	0.44
1:C:1097:THR:HA	1:C:1143:TRP:CH2	2.53	0.44
1:C:1438:ARG:HG3	1:C:1511:LEU:CD2	2.48	0.44
1:C:1704:PRO:HG2	1:C:1707:LEU:HD12	2.00	0.44
1:C:2123:LEU:HD23	1:C:2123:LEU:HA	1.82	0.44
1:C:2151:ASP:OD1	1:C:2188:ASN:ND2	2.50	0.44
1:C:3669:PHE:O	1:C:3670:GLU:C	2.54	0.44
1:C:3709:ALA:HB2	1:C:3782:MET:SD	2.57	0.44
1:C:3983:SER:C	1:C:3985:LEU:H	2.21	0.44
1:C:3992:PHE:O	1:C:3996:PHE:CD2	2.71	0.44
1:E:210:GLU:H	1:E:273:HIS:CE1	2.35	0.44
1:E:674:PHE:CD2	2:F:40:ARG:NH1	2.86	0.44
1:E:1047:LEU:C	1:E:1050:GLY:H	2.21	0.44
1:E:1868:PRO:HD3	1:E:1925:GLY:HA3	2.00	0.44
1:E:3930:ILE:HG22	1:E:3995:VAL:HG11	2.00	0.44
1:E:4222:VAL:HB	1:E:4950:VAL:HG22	1.99	0.44
1:E:4802:GLY:CA	1:E:4809:PHE:HB2	2.47	0.44
1:G:284:HIS:NE2	1:G:286:THR:OG1	2.29	0.44
1:G:1047:LEU:C	1:G:1050:GLY:H	2.21	0.44
1:G:1639:LEU:HD23	1:G:1650:ILE:HG13	2.00	0.44
1:G:1678:ASN:HD21	1:G:1681:VAL:HG21	1.83	0.44
1:G:2237:CYS:O	1:G:2241:ARG:HG2	2.18	0.44
1:G:3767:GLN:CD	1:G:3809:ASN:HD21	2.21	0.44
1:G:3802:ILE:HD11	1:G:3883:ASP:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4904:PRO:HD3	1:G:4913:ARG:HH11	1.83	0.44
1:A:215:THR:HG22	1:A:273:HIS:HD2	1.83	0.44
1:A:571:SER:HA	1:A:572:PRO:HD2	1.92	0.44
1:A:732:SER:HB3	1:A:764:VAL:HG13	1.99	0.44
1:A:1078:GLU:HA	1:A:1237:TRP:CE2	2.53	0.44
1:A:1133:HIS:HD2	1:A:1134:LEU:HB2	1.82	0.44
1:A:1762:LEU:CD1	1:A:1763:PRO:N	2.81	0.44
1:A:1961:PHE:HZ	1:A:2063:LEU:CD2	2.03	0.44
1:A:2095:GLN:HG3	1:A:2127:GLN:HB3	2.00	0.44
1:A:4682:GLU:O	1:A:4727:LYS:HG2	2.18	0.44
1:A:4904:PRO:HD3	1:A:4913:ARG:HH11	1.83	0.44
1:C:601:ASP:OD1	1:C:1665:HIS:ND1	2.51	0.44
1:C:619:ASP:O	1:C:622:THR:OG1	2.27	0.44
1:C:641:VAL:HG21	1:C:704:GLY:HA2	1.99	0.44
1:C:1452:TRP:CE2	1:C:1519:LEU:HD22	2.53	0.44
1:C:2133:GLU:HG3	1:C:2136:ARG:NE	2.27	0.44
1:C:2380:ILE:HG23	1:C:2423:MET:HE1	1.99	0.44
1:C:2754:PHE:CZ	1:C:2930:LEU:HD23	2.53	0.44
1:C:3993:LEU:O	1:C:3997:ALA:N	2.49	0.44
1:C:3998:HIS:O	1:C:4002:LYS:HG2	2.18	0.44
1:E:558:SER:O	1:E:561:LEU:N	2.51	0.44
1:E:575:LEU:HD22	1:E:606:LEU:HA	2.00	0.44
1:E:681:HIS:HB2	1:E:716:PHE:CE1	2.53	0.44
1:E:1708:ARG:CZ	1:E:1712:TYR:CE2	2.99	0.44
1:E:2763:HIS:CD2	1:E:2794:TYR:HB2	2.53	0.44
1:E:3667:HIS:O	1:E:3669:PHE:CD1	2.70	0.44
1:E:3891:LEU:HB3	1:E:3899:PHE:HE2	1.83	0.44
1:E:3992:PHE:O	1:E:3996:PHE:CD2	2.71	0.44
1:E:4039:MET:O	1:E:4043:GLN:HG2	2.18	0.44
1:G:23:GLN:HE21	1:G:34:LYS:HB3	1.83	0.44
1:G:334:MET:H	1:G:334:MET:HG3	1.60	0.44
1:G:597:HIS:HB3	1:G:1665:HIS:CD2	2.53	0.44
1:G:601:ASP:OD1	1:G:1665:HIS:ND1	2.51	0.44
1:G:1097:THR:HA	1:G:1143:TRP:CH2	2.53	0.44
1:G:1777:PHE:CD1	1:G:1799:SER:HB2	2.52	0.44
1:G:1853:ILE:O	1:G:1854:PHE:CG	2.70	0.44
1:G:1868:PRO:HD3	1:G:1925:GLY:HA3	2.00	0.44
1:A:457:GLU:HG3	1:A:464:LYS:HZ1	1.82	0.44
1:A:674:PHE:CD2	2:B:40:ARG:NH1	2.86	0.44
1:A:886:ARG:HB3	1:A:891:TRP:CG	2.53	0.44
1:A:1639:LEU:HD23	1:A:1650:ILE:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1698:LEU:HD11	1:A:1715:LEU:HD13	2.00	0.44
1:A:1743:ARG:HD2	1:A:1963:GLU:CG	2.47	0.44
1:A:1762:LEU:CD1	1:A:1762:LEU:C	2.85	0.44
1:A:3889:GLN:O	1:A:3893:GLU:HG3	2.18	0.44
1:A:3930:ILE:HG22	1:A:3995:VAL:HG11	2.00	0.44
1:A:4580:TYR:CD2	1:A:4807:PHE:HZ	2.35	0.44
1:A:4888:TYR:OH	1:G:4913:ARG:NH1	2.48	0.44
1:A:4978:HIS:O	1:A:4982:GLU:HB2	2.17	0.44
1:C:291:LEU:HG	1:C:314:PHE:CE2	2.53	0.44
1:C:514:SER:O	1:C:518:ILE:HG13	2.17	0.44
1:C:1099:GLU:HG2	1:C:1127:HIS:HB3	1.99	0.44
1:C:1230:MET:HG2	1:C:1828:ASP:HA	1.99	0.44
1:C:1777:PHE:HD1	1:C:1799:SER:HB2	1.82	0.44
1:C:1829:PRO:O	1:C:1831:GLY:N	2.51	0.44
1:C:1853:ILE:O	1:C:1854:PHE:CG	2.70	0.44
1:C:1868:PRO:HD3	1:C:1925:GLY:HA3	2.00	0.44
1:C:1943:LEU:HD21	1:C:2098:VAL:CG2	2.48	0.44
1:C:2066:LEU:O	1:C:2070:VAL:HG23	2.17	0.44
1:C:4563:ARG:NH1	1:C:4791:TYR:HE2	2.16	0.44
1:C:4802:GLY:HA3	1:C:4809:PHE:HD1	1.83	0.44
1:E:35:LEU:HD11	1:E:49:LEU:HD22	2.00	0.44
1:E:1770:SER:OG	1:E:1771:LEU:N	2.49	0.44
1:E:2198:MET:HE1	1:E:2203:MET:HE1	1.94	0.44
1:E:3709:ALA:HB2	1:E:3782:MET:SD	2.57	0.44
1:E:4580:TYR:CD2	1:E:4807:PHE:HZ	2.35	0.44
1:E:4682:GLU:O	1:E:4727:LYS:HG2	2.18	0.44
1:E:4889:VAL:O	1:E:4893:ALA:N	2.51	0.44
1:G:681:HIS:HB2	1:G:716:PHE:CE1	2.53	0.44
1:G:909:ASN:O	1:G:912:SER:OG	2.22	0.44
1:G:1075:PHE:HA	1:G:1237:TRP:O	2.18	0.44
1:G:1132:TRP:CD1	1:G:1135:GLY:C	2.91	0.44
1:G:1452:TRP:CE2	1:G:1519:LEU:HD22	2.53	0.44
1:G:1810:LYS:NZ	1:G:1813:ARG:HH22	2.16	0.44
1:G:1838:PHE:O	1:G:1839:VAL:C	2.57	0.44
1:G:1856:ASP:O	1:G:1859:VAL:HB	2.17	0.44
1:G:2058:SER:O	1:G:2061:SER:OG	2.16	0.44
1:G:2066:LEU:O	1:G:2070:VAL:HG23	2.17	0.44
1:G:2165:LEU:HD12	1:G:2168:VAL:HB	2.00	0.44
1:G:2204:HIS:HB3	1:G:2239:PHE:CE2	2.53	0.44
1:G:2454:ARG:O	1:G:2458:ARG:HG3	2.18	0.44
1:G:3889:GLN:O	1:G:3893:GLU:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3983:SER:C	1:G:3985:LEU:H	2.21	0.44
1:G:4164:LEU:HA	1:G:4167:ALA:HB3	2.00	0.44
1:G:4219:PHE:O	1:G:4223:ASN:HB3	2.17	0.44
1:G:4580:TYR:HD2	1:G:4807:PHE:CZ	2.35	0.44
1:G:4901:ILE:HG12	1:G:4902:GLU:N	2.32	0.44
1:A:59:PRO:HG2	1:A:290:TYR:HE2	1.83	0.43
1:A:291:LEU:HG	1:A:314:PHE:CE2	2.53	0.43
1:A:514:SER:O	1:A:518:ILE:HG13	2.17	0.43
1:A:1274:HIS:HB2	1:A:1564:PHE:O	2.18	0.43
1:A:1868:PRO:HD3	1:A:1925:GLY:HA3	2.00	0.43
1:A:2204:HIS:O	1:A:2208:MET:HE2	2.18	0.43
1:A:2745:VAL:HG21	1:A:2818:ALA:HB2	1.99	0.43
1:A:2754:PHE:CZ	1:A:2930:LEU:HD23	2.53	0.43
1:A:3998:HIS:O	1:A:4002:LYS:HG2	2.18	0.43
1:A:4563:ARG:NH1	1:A:4791:TYR:HE2	2.16	0.43
1:A:4889:VAL:O	1:A:4893:ALA:N	2.51	0.43
1:C:59:PRO:HG2	1:C:290:TYR:HE2	1.83	0.43
1:C:215:THR:O	1:C:218:HIS:HB2	2.17	0.43
1:C:681:HIS:HB2	1:C:716:PHE:CE1	2.53	0.43
1:C:732:SER:HB3	1:C:764:VAL:HG13	1.99	0.43
1:C:838:HIS:CD2	1:C:1201:HIS:HB2	2.53	0.43
1:C:1838:PHE:O	1:C:1839:VAL:C	2.57	0.43
1:C:2247:GLN:HE21	1:C:2279:SER:C	2.20	0.43
1:C:3802:ILE:HD11	1:C:3883:ASP:O	2.18	0.43
1:C:3930:ILE:HG22	1:C:3995:VAL:HG11	2.00	0.43
1:C:4149:ASN:HA	1:C:4194:TYR:CE2	2.53	0.43
1:C:4164:LEU:HA	1:C:4167:ALA:HB3	2.00	0.43
1:C:4889:VAL:O	1:C:4893:ALA:N	2.51	0.43
1:C:4901:ILE:HG12	1:C:4902:GLU:N	2.32	0.43
1:E:149:THR:HG23	1:E:174:VAL:HG22	1.99	0.43
1:E:601:ASP:OD1	1:E:1665:HIS:ND1	2.51	0.43
1:E:1207:ASP:O	1:E:1210:SER:OG	2.24	0.43
1:E:1678:ASN:HD21	1:E:1681:VAL:HG21	1.83	0.43
1:E:1698:LEU:HD11	1:E:1715:LEU:HD13	2.00	0.43
1:E:1708:ARG:NH2	1:E:1712:TYR:OH	2.51	0.43
1:E:2204:HIS:O	1:E:2208:MET:HE2	2.18	0.43
1:E:2247:GLN:HE21	1:E:2279:SER:C	2.20	0.43
1:E:3998:HIS:O	1:E:4002:LYS:HG2	2.18	0.43
1:E:4149:ASN:HA	1:E:4194:TYR:CE2	2.53	0.43
1:E:4574:ASN:O	1:E:4577:LEU:HB2	2.18	0.43
1:G:35:LEU:HD11	1:G:49:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:886:ARG:HB3	1:G:891:TRP:CG	2.53	0.43
1:G:2095:GLN:HG3	1:G:2127:GLN:HB3	2.00	0.43
1:G:3884:LEU:O	1:G:3887:PHE:HB3	2.18	0.43
1:G:3924:LEU:HD23	1:G:3988:ALA:HB2	1.99	0.43
1:G:3993:LEU:O	1:G:3997:ALA:N	2.49	0.43
1:G:4580:TYR:CD2	1:G:4807:PHE:HZ	2.35	0.43
1:A:557:SER:HA	1:A:560:ILE:HD13	1.99	0.43
1:A:596:ASN:HB2	1:A:599:VAL:HG23	1.93	0.43
1:A:706:GLY:N	1:A:711:LEU:HD13	2.29	0.43
1:A:1018:ASN:O	1:A:1021:LEU:HG	2.18	0.43
1:A:1075:PHE:HA	1:A:1237:TRP:O	2.18	0.43
1:A:1131:ARG:CG	1:A:1139:PHE:HB2	2.48	0.43
1:A:1678:ASN:HD21	1:A:1681:VAL:HG21	1.83	0.43
1:A:1736:VAL:HA	1:A:1737:PRO:HD2	1.78	0.43
1:A:1763:PRO:CG	1:A:1863:LEU:HD11	2.43	0.43
1:A:1777:PHE:CD1	1:A:1799:SER:HB2	2.52	0.43
1:A:2159:LEU:O	1:A:2163:ARG:HB2	2.18	0.43
1:A:2326:CYS:HA	1:A:2329:GLU:HG2	2.01	0.43
1:A:2763:HIS:CD2	1:A:2794:TYR:HB2	2.53	0.43
1:A:3802:ILE:HD11	1:A:3883:ASP:O	2.18	0.43
1:A:3841:VAL:HG12	1:A:3843:ASP:N	2.31	0.43
1:A:4149:ASN:HA	1:A:4194:TYR:CE2	2.53	0.43
1:A:4921:PHE:O	1:A:4925:ILE:HB	2.18	0.43
1:C:125:ARG:HB3	1:C:134:ASP:OD1	2.09	0.43
1:C:858:THR:CG2	1:C:991:ASN:HD21	2.31	0.43
1:C:1678:ASN:HD21	1:C:1681:VAL:HG21	1.83	0.43
1:C:1810:LYS:NZ	1:C:1813:ARG:HH22	2.16	0.43
1:C:4688:ILE:HG23	1:C:4732:PHE:HZ	1.82	0.43
1:C:4802:GLY:HA2	1:C:4805:ASN:O	2.18	0.43
1:C:4921:PHE:O	1:C:4925:ILE:HB	2.18	0.43
1:E:2095:GLN:HG3	1:E:2127:GLN:HB3	2.00	0.43
1:E:2204:HIS:HB3	1:E:2239:PHE:CE2	2.53	0.43
1:E:3726:ALA:HB3	1:E:3796:SER:OG	2.19	0.43
1:E:3802:ILE:HD11	1:E:3883:ASP:O	2.18	0.43
1:G:557:SER:HA	1:G:560:ILE:HD13	1.99	0.43
1:G:597:HIS:NE2	1:G:1661:ARG:HD2	2.33	0.43
1:G:706:GLY:N	1:G:711:LEU:HD13	2.29	0.43
1:G:1274:HIS:HB2	1:G:1564:PHE:O	2.18	0.43
1:G:1286:MET:CE	1:G:1555:LEU:HD11	2.05	0.43
1:G:1438:ARG:HG3	1:G:1511:LEU:CD2	2.48	0.43
1:G:3998:HIS:O	1:G:4002:LYS:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4682:GLU:O	1:G:4727:LYS:HG2	2.18	0.43
1:G:4802:GLY:HA2	1:G:4805:ASN:O	2.18	0.43
1:A:13:PHE:HE2	1:A:164:ARG:HH12	1.51	0.43
1:A:50:GLU:O	1:A:52:THR:HG23	2.19	0.43
1:A:601:ASP:OD1	1:A:1665:HIS:ND1	2.51	0.43
1:A:1097:THR:HA	1:A:1143:TRP:CH2	2.53	0.43
1:A:1099:GLU:HG2	1:A:1127:HIS:HB3	1.99	0.43
1:A:1552:VAL:HG12	1:A:1554:VAL:HG23	2.00	0.43
1:A:1848:LEU:HD21	1:A:1854:PHE:CZ	2.53	0.43
1:A:3983:SER:C	1:A:3985:LEU:H	2.21	0.43
1:A:4164:LEU:HA	1:A:4167:ALA:HB3	2.00	0.43
1:A:4802:GLY:HA3	1:A:4809:PHE:HD1	1.83	0.43
1:A:4946:GLN:O	1:A:4950:VAL:HG23	2.19	0.43
1:C:575:LEU:HD22	1:C:606:LEU:HA	2.00	0.43
1:C:675:LEU:O	1:C:676:THR:OG1	2.28	0.43
1:C:1836:PHE:O	1:C:1840:PRO:HD2	2.17	0.43
1:C:1955:VAL:HG22	1:C:2134:LEU:HG	1.99	0.43
1:C:2159:LEU:O	1:C:2163:ARG:HB2	2.18	0.43
1:C:2454:ARG:O	1:C:2458:ARG:HG3	2.18	0.43
1:C:2745:VAL:HG21	1:C:2818:ALA:HB2	1.99	0.43
1:C:2763:HIS:CD2	1:C:2794:TYR:HB2	2.53	0.43
1:C:4221:VAL:O	1:C:4225:GLY:N	2.51	0.43
1:C:4574:ASN:O	1:C:4577:LEU:HB2	2.18	0.43
1:C:4732:PHE:CE1	1:C:4736:ARG:HD2	2.51	0.43
1:C:4898:GLY:HA2	1:C:4901:ILE:HG21	1.95	0.43
1:C:4983:HIS:O	1:C:4985:LEU:N	2.52	0.43
1:E:59:PRO:HG2	1:E:290:TYR:HE2	1.83	0.43
1:E:640:TYR:CD1	1:E:1636:MET:HE2	2.53	0.43
1:E:1438:ARG:HG3	1:E:1511:LEU:CD2	2.48	0.43
1:E:1552:VAL:HG12	1:E:1554:VAL:HG23	2.00	0.43
1:E:1657:LEU:O	1:E:1660:GLN:HB3	2.17	0.43
1:E:1762:LEU:CD1	1:E:1763:PRO:N	2.81	0.43
1:E:1856:ASP:O	1:E:1859:VAL:HB	2.17	0.43
1:E:2752:ASP:HA	1:E:2755:ILE:HD12	2.00	0.43
1:E:2754:PHE:CZ	1:E:2930:LEU:HD23	2.53	0.43
1:E:3884:LEU:O	1:E:3887:PHE:HB3	2.18	0.43
1:E:3924:LEU:HD23	1:E:3988:ALA:HB2	1.99	0.43
1:E:4150:LEU:O	1:E:4154:VAL:N	2.36	0.43
1:E:4187:SER:OG	1:E:4189:ARG:NE	2.52	0.43
1:E:4999:ASP:HB2	1:E:5002:GLU:HG3	2.00	0.43
1:G:1248:VAL:HA	1:G:1249:PRO:HD2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2204:HIS:O	1:G:2208:MET:HE2	2.18	0.43
1:G:2326:CYS:HA	1:G:2329:GLU:HG2	2.01	0.43
1:A:1248:VAL:HA	1:A:1249:PRO:HD2	1.83	0.43
1:A:1438:ARG:HG3	1:A:1511:LEU:CD2	2.48	0.43
1:A:1455:PRO:HD3	1:A:1547:LYS:O	2.19	0.43
1:A:2552:ARG:O	1:A:2556:LEU:HG	2.18	0.43
1:A:3817:LEU:HD13	1:A:3899:PHE:HD1	1.83	0.43
1:A:3993:LEU:O	1:A:3997:ALA:N	2.49	0.43
1:C:221:ARG:NE	1:C:253:CYS:O	2.52	0.43
1:C:358:THR:OG1	1:C:359:TYR:N	2.46	0.43
1:C:674:PHE:CD2	2:D:40:ARG:NH1	2.86	0.43
1:C:1133:HIS:HD2	1:C:1134:LEU:HB2	1.82	0.43
1:C:1694:LEU:HB3	1:C:1715:LEU:HD12	1.99	0.43
1:C:1856:ASP:O	1:C:1859:VAL:HB	2.17	0.43
1:C:4222:VAL:HB	1:C:4950:VAL:HG22	1.99	0.43
1:C:4580:TYR:CD2	1:C:4807:PHE:HZ	2.35	0.43
1:C:4687:TYR:CE2	1:C:4703:ARG:HA	2.49	0.43
1:E:273:HIS:N	1:E:334:MET:O	2.51	0.43
1:E:545:ASP:OD1	1:E:546:TRP:N	2.51	0.43
1:E:558:SER:O	1:E:561:LEU:HB3	2.19	0.43
1:E:595:ARG:HG2	1:E:1662:PHE:CD2	2.54	0.43
1:E:597:HIS:HB3	1:E:1665:HIS:CD2	2.53	0.43
1:E:679:ALA:C	1:E:680:THR:O	2.47	0.43
1:E:1042:ALA:O	1:E:1046:LEU:HG	2.18	0.43
1:E:1466:PHE:HA	1:E:1467:ASP:HA	1.70	0.43
1:E:1777:PHE:CD1	1:E:1799:SER:HB2	2.52	0.43
1:E:3970:GLN:HE22	1:E:4029:SER:HB3	1.83	0.43
1:E:4688:ILE:HG23	1:E:4732:PHE:HZ	1.82	0.43
1:G:516:LYS:NZ	1:G:555:GLU:O	2.50	0.43
1:G:558:SER:O	1:G:561:LEU:N	2.51	0.43
1:G:1131:ARG:CD	1:G:1139:PHE:CB	2.81	0.43
1:G:1689:VAL:O	1:G:1693:GLN:HB3	2.19	0.43
1:G:1943:LEU:HD21	1:G:2098:VAL:CG2	2.48	0.43
1:G:4147:LEU:HD23	1:G:4147:LEU:HA	1.77	0.43
1:G:4149:ASN:HA	1:G:4194:TYR:CE2	2.53	0.43
1:G:4802:GLY:HA3	1:G:4809:PHE:HD1	1.83	0.43
1:G:4889:VAL:O	1:G:4893:ALA:N	2.51	0.43
1:G:4946:GLN:O	1:G:4950:VAL:HG23	2.19	0.43
1:A:221:ARG:NE	1:A:253:CYS:O	2.52	0.43
1:A:545:ASP:OD1	1:A:546:TRP:N	2.51	0.43
1:A:558:SER:O	1:A:561:LEU:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:838:HIS:CD2	1:A:1201:HIS:HB2	2.53	0.43
1:A:1131:ARG:CD	1:A:1139:PHE:CB	2.81	0.43
1:A:1835:GLU:HG3	1:A:1932:PRO:CB	2.49	0.43
1:A:2812:SER:HG	1:A:2882:TYR:HH	1.64	0.43
1:A:3726:ALA:HB3	1:A:3796:SER:OG	2.19	0.43
1:A:4688:ILE:HG23	1:A:4732:PHE:HZ	1.82	0.43
1:A:4983:HIS:O	1:A:4985:LEU:N	2.52	0.43
1:C:421:PHE:HE1	1:C:497:TYR:HH	1.66	0.43
1:C:558:SER:O	1:C:561:LEU:HB3	2.19	0.43
1:C:558:SER:O	1:C:561:LEU:N	2.51	0.43
1:C:595:ARG:HG2	1:C:1662:PHE:CE2	2.53	0.43
1:C:597:HIS:HB3	1:C:1665:HIS:CD2	2.53	0.43
1:C:886:ARG:HB3	1:C:891:TRP:CG	2.53	0.43
1:C:909:ASN:O	1:C:912:SER:OG	2.22	0.43
1:C:1047:LEU:C	1:C:1050:GLY:H	2.21	0.43
1:C:1078:GLU:HB3	1:C:1081:TYR:CD2	2.54	0.43
1:C:1455:PRO:HD3	1:C:1547:LYS:O	2.19	0.43
1:C:1835:GLU:HG3	1:C:1932:PRO:CB	2.49	0.43
1:C:4159:ARG:HG3	1:C:4160:LEU:H	1.83	0.43
1:C:4580:TYR:HD2	1:C:4807:PHE:CZ	2.35	0.43
1:C:4946:GLN:O	1:C:4950:VAL:HG23	2.19	0.43
1:E:563:VAL:O	1:E:567:VAL:HG23	2.18	0.43
1:E:595:ARG:CB	1:E:1662:PHE:CE1	2.85	0.43
1:E:597:HIS:NE2	1:E:1661:ARG:HD2	2.33	0.43
1:E:641:VAL:HG21	1:E:704:GLY:HA2	1.99	0.43
1:E:669:ASP:OD1	1:E:790:ARG:HG3	2.19	0.43
1:E:2454:ARG:O	1:E:2458:ARG:HG3	2.18	0.43
1:E:2761:TYR:CZ	1:E:2862:LEU:HD13	2.54	0.43
1:E:2822:THR:O	1:E:2937:VAL:HA	2.19	0.43
1:E:4563:ARG:NH1	1:E:4791:TYR:HE2	2.16	0.43
1:E:4983:HIS:O	1:E:4985:LEU:N	2.52	0.43
1:G:50:GLU:O	1:G:52:THR:HG23	2.19	0.43
1:G:291:LEU:HG	1:G:314:PHE:CE2	2.53	0.43
1:G:595:ARG:HG2	1:G:1662:PHE:CE2	2.53	0.43
1:G:708:GLY:H	1:G:711:LEU:HD12	1.84	0.43
1:G:1078:GLU:HA	1:G:1237:TRP:CE2	2.53	0.43
1:G:1694:LEU:HB3	1:G:1715:LEU:HD12	1.99	0.43
1:G:2758:PHE:HD2	1:G:2809:ILE:HD13	1.82	0.43
1:G:2763:HIS:CD2	1:G:2794:TYR:HB2	2.53	0.43
1:G:3726:ALA:HB3	1:G:3796:SER:OG	2.19	0.43
1:G:4039:MET:O	1:G:4043:GLN:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4821:LYS:HA	1:G:4824:ARG:HE	1.83	0.43
1:A:103:TYR:CE2	1:A:163:VAL:HA	2.54	0.43
1:A:183:SER:O	1:A:190:GLN:N	2.34	0.43
1:A:252:VAL:HA	1:A:255:HIS:ND1	2.34	0.43
1:A:453:GLU:HA	1:A:454:PRO:HD3	1.78	0.43
1:A:597:HIS:CD2	1:A:1661:ARG:HH11	2.37	0.43
1:A:597:HIS:HB3	1:A:1665:HIS:CD2	2.53	0.43
1:A:638:ILE:HG23	1:A:678:GLN:HE22	1.84	0.43
1:A:669:ASP:OD1	1:A:790:ARG:HG3	2.19	0.43
1:A:708:GLY:H	1:A:711:LEU:HD12	1.84	0.43
1:A:858:THR:CG2	1:A:991:ASN:HD21	2.31	0.43
1:A:889:GLN:HB3	1:A:891:TRP:CD1	2.53	0.43
1:A:1047:LEU:C	1:A:1050:GLY:H	2.21	0.43
1:A:1943:LEU:HD21	1:A:2098:VAL:CG2	2.48	0.43
1:A:2204:HIS:HB3	1:A:2239:PHE:CE2	2.53	0.43
1:A:4083:ASP:CG	1:A:4087:LEU:O	2.56	0.43
1:A:4821:LYS:HA	1:A:4824:ARG:HE	1.83	0.43
1:C:16:THR:O	1:C:98:HIS:ND1	2.48	0.43
1:C:35:LEU:HD11	1:C:49:LEU:HD22	2.00	0.43
1:C:706:GLY:N	1:C:711:LEU:HD13	2.29	0.43
1:C:1762:LEU:CD1	1:C:1763:PRO:N	2.81	0.43
1:C:2204:HIS:HB3	1:C:2239:PHE:CE2	2.53	0.43
1:C:3924:LEU:HD23	1:C:3988:ALA:HB2	1.99	0.43
1:C:4157:ASP:O	1:C:4161:ARG:N	2.41	0.43
2:D:26:TYR:CE1	2:D:39:SER:HB3	2.53	0.43
1:E:16:THR:O	1:E:98:HIS:ND1	2.48	0.43
1:E:475:GLN:NE2	1:E:528:SER:O	2.52	0.43
1:E:708:GLY:H	1:E:711:LEU:HD12	1.84	0.43
1:E:732:SER:HB3	1:E:764:VAL:HG13	1.99	0.43
1:E:889:GLN:HB3	1:E:891:TRP:CD1	2.53	0.43
1:E:1762:LEU:HD11	1:E:1863:LEU:HD12	2.00	0.43
1:E:1763:PRO:CG	1:E:1863:LEU:HD11	2.43	0.43
1:E:1943:LEU:HD21	1:E:2098:VAL:CG2	2.48	0.43
1:E:2237:CYS:O	1:E:2241:ARG:HG2	2.18	0.43
1:E:2326:CYS:HA	1:E:2329:GLU:HG2	2.01	0.43
1:E:2745:VAL:HG21	1:E:2818:ALA:HB2	1.99	0.43
1:E:4221:VAL:O	1:E:4225:GLY:N	2.51	0.43
1:G:215:THR:O	1:G:218:HIS:HB2	2.17	0.43
1:G:280:LEU:N	1:G:314:PHE:O	2.42	0.43
1:G:636:ASN:HA	1:G:1693:GLN:OE1	2.19	0.43
1:G:669:ASP:OD1	1:G:790:ARG:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1042:ALA:O	1:G:1046:LEU:HG	2.18	0.43
1:G:1127:HIS:O	1:G:1129:GLY:N	2.43	0.43
1:G:1829:PRO:O	1:G:1831:GLY:N	2.51	0.43
1:G:3992:PHE:O	1:G:3996:PHE:CD2	2.71	0.43
1:G:4574:ASN:O	1:G:4577:LEU:HB2	2.18	0.43
1:G:4898:GLY:HA2	1:G:4901:ILE:HG21	1.95	0.43
1:G:4983:HIS:O	1:G:4985:LEU:N	2.52	0.43
1:A:404:ILE:HG12	1:A:478:PHE:CD1	2.54	0.43
1:A:595:ARG:HG2	1:A:1662:PHE:CD2	2.54	0.43
1:A:597:HIS:NE2	1:A:1661:ARG:HD2	2.33	0.43
1:A:636:ASN:HA	1:A:1693:GLN:OE1	2.19	0.43
1:A:1024:TYR:O	1:A:1027:LEU:HG	2.19	0.43
1:A:1810:LYS:NZ	1:A:1813:ARG:HH22	2.16	0.43
1:A:1838:PHE:O	1:A:1839:VAL:C	2.57	0.43
1:A:2237:CYS:O	1:A:2241:ARG:HG2	2.18	0.43
1:A:3884:LEU:O	1:A:3887:PHE:HB3	2.18	0.43
1:C:50:GLU:O	1:C:52:THR:HG23	2.19	0.43
1:C:563:VAL:O	1:C:567:VAL:HG23	2.18	0.43
1:C:1689:VAL:O	1:C:1693:GLN:HB3	2.19	0.43
1:C:1698:LEU:HD11	1:C:1715:LEU:HD13	2.00	0.43
1:C:1764:GLY:O	1:C:1856:ASP:HB3	2.19	0.43
1:C:2301:TYR:HB3	1:C:2331:TYR:CE2	2.54	0.43
1:C:2380:ILE:O	1:C:2384:ILE:HG13	2.19	0.43
1:C:3969:ILE:O	1:C:3971:GLY:O	2.37	0.43
1:E:215:THR:HG22	1:E:273:HIS:HD2	1.83	0.43
1:E:221:ARG:NE	1:E:253:CYS:O	2.52	0.43
1:E:291:LEU:HG	1:E:314:PHE:CE2	2.53	0.43
1:E:595:ARG:HG2	1:E:1662:PHE:CE2	2.53	0.43
1:E:597:HIS:CD2	1:E:1661:ARG:HH11	2.37	0.43
1:E:711:LEU:HA	1:E:711:LEU:HD23	1.84	0.43
1:E:886:ARG:HB3	1:E:891:TRP:CG	2.53	0.43
1:E:1018:ASN:O	1:E:1021:LEU:HG	2.18	0.43
1:E:1099:GLU:HG2	1:E:1127:HIS:HB3	1.99	0.43
1:E:1178:ALA:O	1:E:1180:ARG:HG3	2.19	0.43
1:E:1455:PRO:HD3	1:E:1547:LYS:O	2.19	0.43
1:E:2552:ARG:O	1:E:2556:LEU:HG	2.18	0.43
1:E:2927:LEU:HA	1:E:2930:LEU:HD12	2.01	0.43
1:E:4802:GLY:HA2	1:E:4805:ASN:O	2.18	0.43
1:G:220:LEU:CD1	1:G:390:LEU:HD22	2.49	0.43
1:G:221:ARG:NE	1:G:253:CYS:O	2.52	0.43
1:G:222:LEU:HD22	1:G:231:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:595:ARG:HG2	1:G:1662:PHE:CD2	2.54	0.43
1:G:597:HIS:CD2	1:G:1661:ARG:HH11	2.37	0.43
1:G:602:VAL:O	1:G:605:SER:OG	2.25	0.43
1:G:829:TYR:OH	1:G:1616:GLU:OE1	2.28	0.43
1:G:993:HIS:CE1	1:G:1020:ARG:HB3	2.45	0.43
1:G:2196:ASN:HA	1:G:2199:ARG:HG2	2.01	0.43
1:G:2754:PHE:CZ	1:G:2930:LEU:HD23	2.53	0.43
1:G:2761:TYR:CZ	1:G:2862:LEU:HD13	2.54	0.43
1:G:3669:PHE:O	1:G:3670:GLU:C	2.54	0.43
1:G:4187:SER:OG	1:G:4189:ARG:NE	2.52	0.43
1:G:4563:ARG:NH1	1:G:4791:TYR:HE2	2.16	0.43
1:G:4688:ILE:HG23	1:G:4732:PHE:HZ	1.82	0.43
2:H:16:PRO:HD2	2:H:64:ALA:O	2.19	0.43
1:A:161:GLU:OE2	1:A:164:ARG:NH2	2.50	0.43
1:A:3992:PHE:O	1:A:3996:PHE:CD2	2.71	0.43
1:A:4010:ILE:CD1	1:A:4010:ILE:C	2.85	0.43
1:A:4227:GLU:HG2	1:A:4228:ALA:N	2.34	0.43
2:B:16:PRO:HD2	2:B:64:ALA:O	2.19	0.43
1:C:597:HIS:NE2	1:C:1661:ARG:HD2	2.33	0.43
1:C:640:TYR:CE1	1:C:1636:MET:HG2	2.54	0.43
1:C:1042:ALA:O	1:C:1046:LEU:HG	2.18	0.43
1:C:1155:LEU:HD22	1:C:1184:ILE:HG12	2.01	0.43
1:C:1178:ALA:O	1:C:1180:ARG:HG3	2.19	0.43
1:C:3817:LEU:HD13	1:C:3899:PHE:HD1	1.83	0.43
1:C:3970:GLN:HE22	1:C:4029:SER:HB3	1.83	0.43
1:C:4220:ASP:O	1:C:4224:GLU:CG	2.66	0.43
1:E:50:GLU:O	1:E:52:THR:HG23	2.19	0.43
1:E:215:THR:O	1:E:218:HIS:HB2	2.17	0.43
1:E:220:LEU:CD1	1:E:390:LEU:HD22	2.49	0.43
1:E:415:ILE:HG23	1:E:493:ARG:HD2	2.01	0.43
1:E:636:ASN:HA	1:E:1693:GLN:OE1	2.19	0.43
1:E:858:THR:CG2	1:E:991:ASN:HD21	2.31	0.43
1:E:1078:GLU:HB3	1:E:1081:TYR:CD2	2.54	0.43
1:E:1131:ARG:CG	1:E:1139:PHE:HB2	2.48	0.43
1:E:1286:MET:N	1:E:1555:LEU:HD12	2.21	0.43
1:E:3817:LEU:HD13	1:E:3899:PHE:HD1	1.83	0.43
1:E:3889:GLN:O	1:E:3893:GLU:HG3	2.18	0.43
1:G:252:VAL:HA	1:G:255:HIS:ND1	2.34	0.43
1:G:475:GLN:NE2	1:G:528:SER:O	2.52	0.43
1:G:1131:ARG:CG	1:G:1139:PHE:HB2	2.48	0.43
1:G:1287:LEU:O	1:G:1553:PHE:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1762:LEU:CD1	1:G:1763:PRO:N	2.81	0.43
1:G:1762:LEU:HD11	1:G:1863:LEU:HD12	2.00	0.43
1:G:2552:ARG:O	1:G:2556:LEU:HG	2.18	0.43
1:G:3795:SER:O	1:G:3799:LYS:HG2	2.19	0.43
1:G:3817:LEU:HD13	1:G:3899:PHE:HD1	1.83	0.43
1:G:4083:ASP:CG	1:G:4087:LEU:O	2.56	0.43
1:G:4107:GLU:O	1:G:4110:PHE:HB3	2.19	0.43
2:H:76:ILE:O	2:H:96:THR:HG23	2.19	0.43
1:A:195:PHE:CZ	1:C:2358:ILE:HG23	2.45	0.43
1:A:475:GLN:NE2	1:A:528:SER:O	2.52	0.43
1:A:563:VAL:O	1:A:567:VAL:HG23	2.18	0.43
1:A:619:ASP:O	1:A:622:THR:OG1	2.27	0.43
1:A:1178:ALA:O	1:A:1180:ARG:HG3	2.19	0.43
1:A:2380:ILE:O	1:A:2384:ILE:HG13	2.19	0.43
1:A:2380:ILE:HG23	1:A:2423:MET:HE1	2.00	0.43
1:A:2761:TYR:CZ	1:A:2862:LEU:HD13	2.54	0.43
1:A:3795:SER:O	1:A:3799:LYS:HG2	2.19	0.43
1:A:4187:SER:OG	1:A:4189:ARG:NE	2.52	0.43
1:A:4898:GLY:HA2	1:A:4901:ILE:HG21	1.95	0.43
1:C:161:GLU:OE2	1:C:164:ARG:NH2	2.50	0.43
1:C:274:LEU:HD12	1:C:278:GLN:NE2	2.34	0.43
1:C:679:ALA:C	1:C:680:THR:O	2.47	0.43
1:C:1078:GLU:HA	1:C:1237:TRP:CE2	2.53	0.43
1:C:1247:PRO:HB3	1:C:1600:LEU:HD13	2.01	0.43
1:C:2326:CYS:HA	1:C:2329:GLU:HG2	2.01	0.43
1:C:2812:SER:OG	1:C:2882:TYR:OH	2.35	0.43
1:C:3795:SER:O	1:C:3799:LYS:HG2	2.19	0.43
1:C:4187:SER:OG	1:C:4189:ARG:NE	2.52	0.43
1:C:4682:GLU:O	1:C:4727:LYS:HG2	2.18	0.43
1:E:274:LEU:HD12	1:E:278:GLN:NE2	2.34	0.43
1:E:1728:ARG:CG	1:E:1850:VAL:HG11	2.49	0.43
1:E:4107:GLU:O	1:E:4110:PHE:HB3	2.19	0.43
2:F:76:ILE:O	2:F:96:THR:HG23	2.19	0.43
1:G:103:TYR:CE2	1:G:163:VAL:HA	2.54	0.43
1:G:273:HIS:N	1:G:334:MET:O	2.51	0.43
1:G:563:VAL:O	1:G:567:VAL:HG23	2.18	0.43
1:G:595:ARG:HB3	1:G:1662:PHE:CG	2.43	0.43
1:G:638:ILE:HG23	1:G:678:GLN:HE22	1.84	0.43
1:G:804:PRO:C	1:G:806:PRO:N	2.73	0.43
1:G:1961:PHE:HZ	1:G:2063:LEU:CD2	2.03	0.43
1:G:2821:TRP:HH2	1:G:2877:GLN:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3930:ILE:HG22	1:G:3995:VAL:HG11	2.00	0.43
1:G:4673:ARG:HH12	1:G:4698:LYS:HB3	1.84	0.43
1:A:1287:LEU:O	1:A:1553:PHE:HA	2.19	0.43
1:A:1808:ARG:HB3	1:A:1854:PHE:CE1	2.42	0.43
1:A:1829:PRO:O	1:A:1831:GLY:N	2.51	0.43
1:A:2454:ARG:O	1:A:2458:ARG:HG3	2.18	0.43
1:A:4150:LEU:O	1:A:4154:VAL:N	2.36	0.43
1:C:708:GLY:H	1:C:711:LEU:HD12	1.84	0.43
1:C:743:VAL:O	1:C:760:ASN:N	2.39	0.43
1:C:1024:TYR:O	1:C:1027:LEU:HG	2.19	0.43
1:C:1154:ASP:O	1:C:1158:ASN:HA	2.19	0.43
1:C:1207:ASP:O	1:C:1210:SER:OG	2.24	0.43
1:C:1478:ASP:C	1:C:1480:GLN:N	2.68	0.43
1:C:2752:ASP:HA	1:C:2755:ILE:HD12	2.00	0.43
1:C:3891:LEU:HB3	1:C:3899:PHE:HE2	1.83	0.43
1:E:2165:LEU:HD12	1:E:2168:VAL:HB	2.00	0.43
1:E:4567:LEU:HD11	1:E:4816:ILE:HD12	2.01	0.43
1:E:4673:ARG:HH12	1:E:4698:LYS:HB3	1.84	0.43
1:E:4802:GLY:HA3	1:E:4809:PHE:HD1	1.83	0.43
1:E:4921:PHE:O	1:E:4925:ILE:HB	2.18	0.43
1:G:273:HIS:HE1	1:G:334:MET:CE	2.18	0.43
1:G:732:SER:HB3	1:G:764:VAL:HG13	1.99	0.43
1:G:838:HIS:CD2	1:G:1201:HIS:HB2	2.53	0.43
1:G:1018:ASN:O	1:G:1021:LEU:HG	2.18	0.43
1:G:1154:ASP:O	1:G:1158:ASN:HA	2.19	0.43
1:G:1716:ILE:O	1:G:1721:GLU:N	2.49	0.43
1:G:1835:GLU:HG3	1:G:1932:PRO:CB	2.49	0.43
1:G:2159:LEU:O	1:G:2163:ARG:HB2	2.18	0.43
1:G:2301:TYR:HB3	1:G:2331:TYR:CE2	2.54	0.43
1:G:3969:ILE:O	1:G:3971:GLY:O	2.37	0.43
1:G:4921:PHE:O	1:G:4925:ILE:HB	2.18	0.43
1:A:681:HIS:HB2	1:A:716:PHE:CE1	2.53	0.42
1:A:926:GLY:O	1:A:930:LYS:HG3	2.19	0.42
1:A:1042:ALA:O	1:A:1046:LEU:HG	2.18	0.42
1:A:1221:GLU:HB2	1:A:1223:PHE:CE2	2.54	0.42
1:A:1297:PHE:CB	1:A:1545:ASN:HA	2.42	0.42
1:A:1839:VAL:HB	1:A:1840:PRO:HD3	2.01	0.42
1:A:1944:GLU:HG3	1:A:2123:LEU:HD21	1.99	0.42
1:A:2821:TRP:HH2	1:A:2877:GLN:HB3	1.84	0.42
1:A:3844:LEU:HD11	1:A:3936:TYR:CB	2.49	0.42
1:A:4673:ARG:HH12	1:A:4698:LYS:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:595:ARG:HG2	1:C:1662:PHE:CD2	2.54	0.42
1:C:638:ILE:HG23	1:C:678:GLN:HE22	1.84	0.42
1:C:1221:GLU:HB2	1:C:1223:PHE:CE2	2.54	0.42
1:C:2143:THR:N	1:C:3651:ASN:OD1	2.38	0.42
1:C:2165:LEU:HD12	1:C:2168:VAL:HB	2.00	0.42
1:C:2761:TYR:CZ	1:C:2862:LEU:HD13	2.54	0.42
1:C:4112:LEU:HD22	1:C:4123:ILE:HD13	2.01	0.42
1:C:4897:ILE:HG23	1:C:4898:GLY:N	2.34	0.42
1:C:4999:ASP:HB2	1:C:5002:GLU:HG3	2.00	0.42
1:E:222:LEU:HD22	1:E:231:LEU:HD23	2.01	0.42
1:E:1130:GLN:HB2	1:E:1137:GLU:O	2.19	0.42
1:E:1247:PRO:HB3	1:E:1600:LEU:HD13	2.01	0.42
1:E:1639:LEU:HD23	1:E:1650:ILE:HG13	2.00	0.42
1:E:2196:ASN:HA	1:E:2199:ARG:HG2	2.01	0.42
1:E:2449:GLU:O	1:E:2452:ARG:HG2	2.19	0.42
1:E:3787:LYS:HG3	1:E:3788:GLY:H	1.84	0.42
1:E:3795:SER:O	1:E:3799:LYS:HG2	2.19	0.42
1:E:4112:LEU:HD22	1:E:4123:ILE:HD13	2.01	0.42
1:E:4164:LEU:HA	1:E:4167:ALA:HB3	2.00	0.42
1:E:4897:ILE:HG23	1:E:4898:GLY:N	2.34	0.42
1:E:4904:PRO:HD3	1:E:4913:ARG:HH11	1.83	0.42
1:E:4908:GLU:HG2	1:E:4912:TYR:CE2	2.54	0.42
1:G:487:VAL:O	1:G:491:ILE:HG13	2.19	0.42
1:G:781:VAL:HG11	1:G:789:VAL:HG21	2.01	0.42
1:G:1848:LEU:HD21	1:G:1854:PHE:CZ	2.53	0.42
1:G:1944:GLU:HG3	1:G:2123:LEU:HD21	1.99	0.42
1:G:2927:LEU:HA	1:G:2930:LEU:HD12	2.01	0.42
1:G:3669:PHE:HD1	1:G:3669:PHE:N	2.15	0.42
1:G:4567:LEU:HD11	1:G:4816:ILE:HD12	2.01	0.42
1:G:4904:PRO:CB	1:G:4910:GLU:HG3	2.35	0.42
1:A:35:LEU:HD11	1:A:49:LEU:HD22	2.00	0.42
1:A:411:TYR:OH	1:A:445:LEU:HD12	2.19	0.42
1:A:993:HIS:CE1	1:A:1020:ARG:HB3	2.45	0.42
1:A:1764:GLY:O	1:A:1856:ASP:HB3	2.19	0.42
1:A:2165:LEU:HD12	1:A:2168:VAL:HB	2.00	0.42
1:A:2822:THR:O	1:A:2937:VAL:HA	2.19	0.42
1:A:2927:LEU:HA	1:A:2930:LEU:HD12	2.01	0.42
1:A:3984:ARG:CD	1:G:161:GLU:CG	2.94	0.42
1:A:4687:TYR:CE2	1:A:4703:ARG:HA	2.49	0.42
1:C:453:GLU:HA	1:C:454:PRO:HD3	1.78	0.42
1:C:597:HIS:CD2	1:C:1661:ARG:HH11	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:831:ARG:HG3	1:C:840:VAL:HG11	2.01	0.42
1:C:1248:VAL:HA	1:C:1249:PRO:HD2	1.83	0.42
1:C:1287:LEU:O	1:C:1553:PHE:HA	2.19	0.42
1:C:2552:ARG:O	1:C:2556:LEU:HG	2.18	0.42
1:C:2821:TRP:HH2	1:C:2877:GLN:HB3	1.84	0.42
1:C:3884:LEU:O	1:C:3887:PHE:HB3	2.18	0.42
1:E:640:TYR:CE1	1:E:1636:MET:HG2	2.54	0.42
1:E:926:GLY:O	1:E:930:LYS:HG3	2.19	0.42
1:E:1287:LEU:O	1:E:1553:PHE:HA	2.19	0.42
1:E:1564:PHE:HE2	1:E:1601:MET:CE	2.32	0.42
1:E:1764:GLY:O	1:E:1856:ASP:HB3	2.19	0.42
1:E:2380:ILE:O	1:E:2384:ILE:HG13	2.19	0.42
1:E:2821:TRP:HH2	1:E:2877:GLN:HB3	1.84	0.42
1:E:3983:SER:C	1:E:3985:LEU:H	2.21	0.42
1:E:4159:ARG:HG3	1:E:4160:LEU:H	1.83	0.42
1:E:4946:GLN:O	1:E:4950:VAL:HG23	2.19	0.42
1:G:317:ARG:NH1	1:G:349:GLN:OE1	2.52	0.42
1:G:558:SER:O	1:G:561:LEU:HB3	2.19	0.42
1:G:674:PHE:CD2	2:H:40:ARG:NH1	2.86	0.42
1:G:1130:GLN:HB2	1:G:1137:GLU:O	2.19	0.42
1:G:1155:LEU:HD22	1:G:1184:ILE:HG12	2.01	0.42
1:G:1764:GLY:O	1:G:1856:ASP:HB3	2.19	0.42
1:G:2822:THR:O	1:G:2937:VAL:HA	2.19	0.42
1:G:4112:LEU:HD22	1:G:4123:ILE:HD13	2.01	0.42
1:G:4159:ARG:HG3	1:G:4160:LEU:H	1.83	0.42
1:G:4688:ILE:CG2	1:G:4732:PHE:CZ	3.03	0.42
1:A:640:TYR:CE1	1:A:1636:MET:HG2	2.54	0.42
1:A:1276:THR:HG22	1:A:1563:GLN:CG	2.50	0.42
1:A:4239:GLU:OE2	1:A:5014:TYR:OH	2.29	0.42
1:C:103:TYR:CE2	1:C:163:VAL:HA	2.54	0.42
1:C:252:VAL:HG23	1:C:257:ARG:NE	2.34	0.42
1:C:487:VAL:O	1:C:491:ILE:HG13	2.19	0.42
1:C:1526:LEU:CG	1:C:1541:GLN:CB	2.98	0.42
1:C:1552:VAL:HG12	1:C:1554:VAL:HG23	2.00	0.42
1:C:1708:ARG:CZ	1:C:1712:TYR:CE2	2.99	0.42
1:C:4107:GLU:O	1:C:4110:PHE:HB3	2.19	0.42
1:C:4673:ARG:HH12	1:C:4698:LYS:HB3	1.84	0.42
1:C:4904:PRO:HD3	1:C:4913:ARG:HH11	1.83	0.42
1:E:317:ARG:NH1	1:E:349:GLN:OE1	2.52	0.42
1:E:404:ILE:HG12	1:E:478:PHE:CD1	2.54	0.42
1:E:541:SER:HA	1:E:574:VAL:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:838:HIS:CD2	1:E:1201:HIS:HB2	2.53	0.42
1:E:1154:ASP:O	1:E:1158:ASN:HA	2.19	0.42
1:E:1769:THR:OG1	1:E:1770:SER:N	2.51	0.42
1:E:1848:LEU:HD21	1:E:1854:PHE:CZ	2.53	0.42
1:E:2159:LEU:O	1:E:2163:ARG:HB2	2.18	0.42
1:G:575:LEU:HD22	1:G:606:LEU:HA	2.00	0.42
1:G:640:TYR:CD1	1:G:1636:MET:HE2	2.53	0.42
1:G:640:TYR:CE1	1:G:1636:MET:HG2	2.54	0.42
1:G:1178:ALA:O	1:G:1180:ARG:HG3	2.19	0.42
1:G:1247:PRO:HB3	1:G:1600:LEU:HD13	2.01	0.42
1:G:1564:PHE:HE2	1:G:1601:MET:CE	2.32	0.42
1:G:1726:SER:O	1:G:1730:MET:HG2	2.20	0.42
1:G:1958:LEU:HD11	1:G:3657:TYR:CE2	2.54	0.42
1:G:2449:GLU:O	1:G:2452:ARG:HG2	2.19	0.42
1:G:3844:LEU:HD11	1:G:3936:TYR:CB	2.49	0.42
1:G:4021:LYS:O	1:G:4025:VAL:HG23	2.19	0.42
1:G:4220:ASP:O	1:G:4224:GLU:CG	2.66	0.42
1:A:575:LEU:HD22	1:A:606:LEU:HA	2.00	0.42
1:A:835:ARG:NH2	1:A:1211:LEU:HD13	2.24	0.42
1:A:1078:GLU:HB3	1:A:1081:TYR:CD2	2.54	0.42
1:A:1564:PHE:HE2	1:A:1601:MET:CE	2.32	0.42
1:A:1853:ILE:HG22	1:A:1854:PHE:HD1	1.67	0.42
1:A:2301:TYR:HB3	1:A:2331:TYR:CE2	2.54	0.42
1:A:3916:ILE:CG2	1:A:3980:LEU:HD12	2.49	0.42
1:A:3969:ILE:O	1:A:3971:GLY:O	2.37	0.42
1:A:4813:LEU:O	1:A:4816:ILE:HG22	2.20	0.42
1:A:4908:GLU:HG2	1:A:4912:TYR:CE2	2.54	0.42
1:C:215:THR:HG22	1:C:273:HIS:HD2	1.83	0.42
1:C:1639:LEU:HD23	1:C:1650:ILE:HG13	2.00	0.42
1:C:2449:GLU:O	1:C:2452:ARG:HG2	2.19	0.42
1:C:2822:THR:O	1:C:2937:VAL:HA	2.19	0.42
1:C:2927:LEU:HA	1:C:2930:LEU:HD12	2.01	0.42
2:D:16:PRO:HD2	2:D:64:ALA:O	2.19	0.42
1:E:551:LEU:HA	1:E:560:ILE:HG21	2.01	0.42
1:E:682:LEU:HD22	1:E:787:VAL:HG11	1.86	0.42
1:E:706:GLY:N	1:E:711:LEU:HD13	2.29	0.42
1:E:1075:PHE:HA	1:E:1237:TRP:O	2.18	0.42
1:E:1078:GLU:HA	1:E:1237:TRP:CE2	2.53	0.42
1:E:1808:ARG:HB2	1:E:1854:PHE:CD1	2.52	0.42
1:E:3916:ILE:CG2	1:E:3980:LEU:HD12	2.49	0.42
1:E:4866:SER:HB3	1:E:4873:ASP:OD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4898:GLY:HA3	1:E:4917:ASP:OD2	2.20	0.42
1:G:359:TYR:HA	1:G:376:ALA:HA	2.02	0.42
1:G:415:ILE:HG23	1:G:493:ARG:HD2	2.01	0.42
1:G:926:GLY:O	1:G:930:LYS:HG3	2.19	0.42
1:G:1440:PHE:CD2	1:G:1560:ASN:HB3	2.54	0.42
1:G:1455:PRO:HD3	1:G:1547:LYS:O	2.19	0.42
1:G:2326:CYS:O	1:G:2329:GLU:HG2	2.20	0.42
2:H:88:PRO:O	2:H:90:ILE:HD12	2.20	0.42
1:A:341:TYR:CE1	1:A:392:ARG:HB3	2.54	0.42
1:A:359:TYR:HA	1:A:376:ALA:HA	2.02	0.42
1:A:595:ARG:HG2	1:A:1662:PHE:CE2	2.53	0.42
1:A:711:LEU:HD23	1:A:711:LEU:HA	1.84	0.42
1:A:1247:PRO:HB3	1:A:1600:LEU:HD13	2.01	0.42
1:A:1440:PHE:CD2	1:A:1560:ASN:HB3	2.54	0.42
1:A:1762:LEU:HD11	1:A:1863:LEU:HD12	2.00	0.42
1:A:3891:LEU:HB3	1:A:3899:PHE:HE2	1.83	0.42
1:A:4039:MET:SD	1:A:4042:ARG:NH1	2.93	0.42
1:A:4112:LEU:HD22	1:A:4123:ILE:HD13	2.01	0.42
1:A:4638:TYR:C	1:A:4641:PRO:HD2	2.39	0.42
2:B:88:PRO:O	2:B:90:ILE:HD12	2.20	0.42
1:C:195:PHE:HE1	1:E:2358:ILE:HG21	1.79	0.42
1:C:284:HIS:NE2	1:C:286:THR:OG1	2.29	0.42
1:C:317:ARG:NH1	1:C:349:GLN:OE1	2.52	0.42
1:C:669:ASP:OD1	1:C:790:ARG:HG3	2.19	0.42
1:C:682:LEU:HD22	1:C:787:VAL:HG11	1.86	0.42
1:C:1018:ASN:O	1:C:1021:LEU:HG	2.18	0.42
1:C:1102:VAL:HG12	1:C:1151:CYS:SG	2.60	0.42
1:C:1130:GLN:HB2	1:C:1137:GLU:O	2.19	0.42
1:C:1440:PHE:CD2	1:C:1560:ASN:HB3	2.54	0.42
1:C:1863:LEU:HD23	1:C:1863:LEU:HA	1.87	0.42
1:C:2237:CYS:O	1:C:2241:ARG:HG2	2.18	0.42
1:C:2761:TYR:CE2	1:C:2862:LEU:HD22	2.54	0.42
1:C:3916:ILE:CG2	1:C:3980:LEU:HD12	2.49	0.42
1:C:4039:MET:SD	1:C:4042:ARG:NH1	2.93	0.42
1:C:4866:SER:HB3	1:C:4873:ASP:OD2	2.19	0.42
2:D:76:ILE:O	2:D:96:THR:HG23	2.19	0.42
1:E:252:VAL:HA	1:E:255:HIS:ND1	2.34	0.42
1:E:341:TYR:CE1	1:E:392:ARG:HB3	2.54	0.42
1:E:359:TYR:HA	1:E:376:ALA:HA	2.02	0.42
1:E:638:ILE:HG23	1:E:678:GLN:HE22	1.84	0.42
1:E:1526:LEU:CG	1:E:1541:GLN:CB	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1689:VAL:O	1:E:1693:GLN:HB3	2.19	0.42
1:E:2301:TYR:HB3	1:E:2331:TYR:CE2	2.54	0.42
1:E:4021:LYS:O	1:E:4025:VAL:HG23	2.19	0.42
1:G:59:PRO:HG2	1:G:290:TYR:HE2	1.83	0.42
1:G:404:ILE:HG12	1:G:478:PHE:CD1	2.54	0.42
1:G:411:TYR:OH	1:G:445:LEU:HD12	2.19	0.42
1:G:793:LEU:HB2	1:G:1626:TRP:HZ3	1.84	0.42
1:G:858:THR:CG2	1:G:991:ASN:HD21	2.31	0.42
1:G:1078:GLU:HB3	1:G:1081:TYR:CD2	2.54	0.42
1:G:2380:ILE:O	1:G:2384:ILE:HG13	2.19	0.42
2:H:26:TYR:CE1	2:H:39:SER:HB3	2.53	0.42
1:A:220:LEU:CD1	1:A:390:LEU:HD22	2.49	0.42
1:A:317:ARG:NH1	1:A:349:GLN:OE1	2.52	0.42
1:A:541:SER:HA	1:A:574:VAL:HG22	2.01	0.42
1:A:1585:LYS:HE2	1:A:1596:GLU:OE1	2.17	0.42
1:A:1689:VAL:O	1:A:1693:GLN:HB3	2.19	0.42
1:A:1728:ARG:CG	1:A:1850:VAL:HG11	2.49	0.42
1:A:1730:MET:HE1	1:A:2159:LEU:HB2	2.01	0.42
1:A:2196:ASN:HA	1:A:2199:ARG:HG2	2.01	0.42
1:A:4688:ILE:CG2	1:A:4732:PHE:CZ	3.03	0.42
2:B:26:TYR:CE1	2:B:39:SER:HB3	2.53	0.42
2:B:76:ILE:O	2:B:96:THR:HG23	2.19	0.42
1:C:341:TYR:CE1	1:C:392:ARG:HB3	2.54	0.42
1:C:404:ILE:HG12	1:C:478:PHE:CD1	2.54	0.42
1:C:475:GLN:NE2	1:C:528:SER:O	2.52	0.42
1:C:526:LEU:O	1:C:530:ILE:HD12	2.20	0.42
1:C:804:PRO:C	1:C:806:PRO:N	2.73	0.42
1:C:1762:LEU:CD1	1:C:1863:LEU:HD12	2.50	0.42
1:C:4021:LYS:O	1:C:4025:VAL:HG23	2.19	0.42
1:C:4638:TYR:C	1:C:4641:PRO:HD2	2.39	0.42
1:C:4688:ILE:CG2	1:C:4732:PHE:CZ	3.03	0.42
1:C:4821:LYS:HA	1:C:4824:ARG:HE	1.83	0.42
1:E:1736:VAL:HA	1:E:1737:PRO:HD2	1.78	0.42
1:E:1835:GLU:HG3	1:E:1932:PRO:CB	2.49	0.42
1:E:3969:ILE:O	1:E:3971:GLY:O	2.37	0.42
1:G:341:TYR:CE1	1:G:392:ARG:HB3	2.54	0.42
1:G:595:ARG:CB	1:G:1662:PHE:CE1	2.85	0.42
1:G:1024:TYR:O	1:G:1027:LEU:HG	2.19	0.42
1:G:2341:VAL:HG22	1:G:2342:ASN:N	2.35	0.42
1:A:102:LEU:HD12	1:A:105:HIS:CE1	2.55	0.42
1:A:526:LEU:O	1:A:530:ILE:HD12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:LEU:HD12	1:A:602:VAL:HG13	2.02	0.42
1:A:2449:GLU:O	1:A:2452:ARG:HG2	2.19	0.42
1:A:3984:ARG:HD3	1:G:161:GLU:HG2	1.99	0.42
1:A:4234:PHE:CE1	1:A:4985:LEU:HD11	2.55	0.42
1:A:4574:ASN:O	1:A:4577:LEU:HB2	2.18	0.42
1:A:4898:GLY:HA3	1:A:4917:ASP:OD2	2.20	0.42
2:B:40:ARG:O	2:B:43:ASN:CA	2.68	0.42
1:C:415:ILE:HG23	1:C:493:ARG:HD2	2.01	0.42
1:C:1276:THR:HG22	1:C:1563:GLN:CG	2.50	0.42
1:C:1766:GLY:N	1:C:1856:ASP:OD2	2.53	0.42
1:C:3726:ALA:HB3	1:C:3796:SER:OG	2.19	0.42
1:C:4567:LEU:HD11	1:C:4816:ILE:HD12	2.01	0.42
1:C:4895:GLY:HA2	1:C:4921:PHE:CE1	2.50	0.42
1:C:4898:GLY:HA3	1:C:4917:ASP:OD2	2.20	0.42
1:E:103:TYR:CE2	1:E:163:VAL:HA	2.54	0.42
1:E:1766:GLY:N	1:E:1856:ASP:OD2	2.53	0.42
1:E:2812:SER:OG	1:E:2882:TYR:OH	2.35	0.42
1:E:4821:LYS:HA	1:E:4824:ARG:HE	1.83	0.42
1:G:215:THR:HG22	1:G:273:HIS:HD2	1.83	0.42
1:G:274:LEU:HD12	1:G:278:GLN:NE2	2.34	0.42
1:G:568:LEU:HD12	1:G:602:VAL:HG13	2.02	0.42
1:G:889:GLN:HB3	1:G:891:TRP:CD1	2.53	0.42
1:G:1100:MET:HE1	1:G:1194:LEU:HD23	2.01	0.42
1:G:2354:VAL:HB	1:G:2453:ILE:HD11	2.02	0.42
1:G:4638:TYR:C	1:G:4641:PRO:HD2	2.39	0.42
1:G:4866:SER:HB3	1:G:4873:ASP:OD2	2.19	0.42
1:G:4961:CYS:SG	1:G:4978:HIS:NE2	2.80	0.42
1:G:4999:ASP:HB2	1:G:5002:GLU:HG3	2.00	0.42
1:A:273:HIS:N	1:A:334:MET:O	2.51	0.42
1:A:274:LEU:HD12	1:A:278:GLN:NE2	2.34	0.42
1:A:831:ARG:HG3	1:A:840:VAL:HG11	2.01	0.42
1:A:1102:VAL:HG12	1:A:1151:CYS:SG	2.60	0.42
1:A:1130:GLN:HB2	1:A:1137:GLU:O	2.19	0.42
1:A:1237:TRP:CZ2	1:A:1655:GLU:HB2	2.55	0.42
1:A:4021:LYS:O	1:A:4025:VAL:HG23	2.19	0.42
1:A:4866:SER:HB3	1:A:4873:ASP:OD2	2.19	0.42
1:C:359:TYR:HA	1:C:376:ALA:HA	2.02	0.42
1:C:1075:PHE:HA	1:C:1237:TRP:O	2.18	0.42
1:C:1762:LEU:HD11	1:C:1863:LEU:HD12	2.00	0.42
1:C:2553:TYR:CD1	1:C:2556:LEU:HD12	2.55	0.42
1:C:3787:LYS:HG3	1:C:3788:GLY:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4813:LEU:O	1:C:4816:ILE:HG22	2.20	0.42
2:D:40:ARG:O	2:D:43:ASN:CA	2.68	0.42
2:D:82:TYR:CD2	2:D:87:HIS:HB2	2.55	0.42
1:E:1440:PHE:CD2	1:E:1560:ASN:HB3	2.54	0.42
1:E:3696:ASP:O	1:E:3700:GLN:N	2.49	0.42
1:E:4083:ASP:CG	1:E:4087:LEU:O	2.56	0.42
1:E:4220:ASP:O	1:E:4224:GLU:CG	2.66	0.42
1:G:1102:VAL:HG12	1:G:1151:CYS:SG	2.60	0.42
1:G:4039:MET:SD	1:G:4042:ARG:NH1	2.93	0.42
1:G:4986:ALA:O	1:G:4989:MET:HB3	2.20	0.42
1:A:487:VAL:O	1:A:491:ILE:HG13	2.19	0.42
1:A:602:VAL:O	1:A:605:SER:OG	2.25	0.42
1:A:743:VAL:O	1:A:760:ASN:N	2.39	0.42
1:A:793:LEU:HB2	1:A:1626:TRP:HZ3	1.84	0.42
1:A:1155:LEU:HD22	1:A:1184:ILE:HG12	2.01	0.42
1:A:1526:LEU:CG	1:A:1541:GLN:CB	2.98	0.42
1:A:1958:LEU:HD11	1:A:3657:TYR:CE2	2.54	0.42
1:A:2094:LEU:O	1:A:2097:LEU:HG	2.20	0.42
1:A:2326:CYS:O	1:A:2329:GLU:HG2	2.20	0.42
1:A:3787:LYS:HG3	1:A:3788:GLY:H	1.84	0.42
1:A:4107:GLU:O	1:A:4110:PHE:HB3	2.19	0.42
2:B:82:TYR:CD2	2:B:87:HIS:HB2	2.55	0.42
1:C:252:VAL:HA	1:C:255:HIS:ND1	2.34	0.42
1:C:411:TYR:OH	1:C:445:LEU:HD12	2.19	0.42
1:C:636:ASN:HA	1:C:1693:GLN:OE1	2.19	0.42
1:C:1112:ASP:OD1	1:C:1606:SER:OG	2.38	0.42
1:C:1123:VAL:O	1:C:1132:TRP:N	2.30	0.42
1:C:1674:CYS:O	1:C:1678:ASN:HB3	2.20	0.42
1:C:3916:ILE:O	1:C:3920:VAL:HG23	2.20	0.42
1:C:4227:GLU:HG2	1:C:4228:ALA:N	2.34	0.42
1:E:102:LEU:HD12	1:E:105:HIS:CE1	2.55	0.42
1:E:1102:VAL:HG12	1:E:1151:CYS:SG	2.60	0.42
1:E:1155:LEU:HD22	1:E:1184:ILE:HG12	2.01	0.42
1:E:1221:GLU:HB2	1:E:1223:PHE:CE2	2.54	0.42
1:E:1838:PHE:O	1:E:1839:VAL:C	2.57	0.42
1:E:3916:ILE:O	1:E:3920:VAL:HG23	2.20	0.42
1:E:4638:TYR:C	1:E:4641:PRO:HD2	2.39	0.42
1:G:1238:PHE:O	1:G:1609:PRO:HA	2.20	0.42
1:G:1526:LEU:CG	1:G:1541:GLN:CB	2.98	0.42
1:A:291:LEU:HA	1:A:301:VAL:HA	2.02	0.42
1:A:445:LEU:HB3	1:A:521:LEU:HG	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1154:ASP:O	1:A:1158:ASN:HA	2.19	0.42
1:A:1674:CYS:O	1:A:1678:ASN:HB3	2.20	0.42
1:A:1684:ALA:HB1	2:B:89:GLY:O	2.20	0.42
1:A:1726:SER:O	1:A:1730:MET:HG2	2.20	0.42
1:A:1762:LEU:CD1	1:A:1863:LEU:HD12	2.50	0.42
1:A:2553:TYR:CD1	1:A:2556:LEU:HD12	2.55	0.42
1:A:4567:LEU:HD11	1:A:4816:ILE:HD12	2.01	0.42
1:A:4999:ASP:HB2	1:A:5002:GLU:HG3	2.00	0.42
1:C:595:ARG:CB	1:C:1662:PHE:CE1	2.85	0.42
1:C:669:ASP:H	1:C:789:VAL:HA	1.85	0.42
1:C:926:GLY:O	1:C:930:LYS:HG3	2.19	0.42
1:C:1131:ARG:CG	1:C:1139:PHE:HB2	2.48	0.42
1:C:1763:PRO:CG	1:C:1863:LEU:HD11	2.43	0.42
1:C:1839:VAL:HB	1:C:1840:PRO:HD3	2.01	0.42
1:C:1958:LEU:HD11	1:C:3657:TYR:CE2	2.54	0.42
1:E:781:VAL:HG11	1:E:789:VAL:HG21	2.01	0.42
1:E:3955:MET:O	1:E:4019:LEU:HD12	2.20	0.42
1:E:4234:PHE:CE1	1:E:4985:LEU:HD11	2.55	0.42
1:E:4687:TYR:HE2	1:E:4703:ARG:CA	2.33	0.42
1:E:4688:ILE:CG2	1:E:4732:PHE:CZ	3.03	0.42
1:E:4813:LEU:O	1:E:4816:ILE:HG22	2.20	0.42
1:E:4971:THR:HG23	1:E:4974:GLY:HA3	2.02	0.42
1:G:1276:THR:HG22	1:G:1563:GLN:CG	2.50	0.42
1:G:1685:LEU:HD23	1:G:1685:LEU:HA	1.88	0.42
1:G:1699:GLU:OE2	1:G:1810:LYS:NZ	2.52	0.42
1:G:1863:LEU:HD23	1:G:1863:LEU:HA	1.87	0.42
1:G:2094:LEU:O	1:G:2097:LEU:HG	2.20	0.42
1:G:3999:MET:O	1:G:4003:LEU:HB2	2.20	0.42
1:G:4661:TYR:CE1	1:G:4665:LYS:HB2	2.55	0.42
1:A:195:PHE:HE1	1:C:2358:ILE:HG21	1.79	0.41
1:A:309:THR:O	1:A:313:SER:OG	2.23	0.41
1:A:551:LEU:HA	1:A:560:ILE:HG21	2.01	0.41
1:A:909:ASN:O	1:A:912:SER:OG	2.22	0.41
1:A:2930:LEU:HB3	1:A:2937:VAL:HG21	2.02	0.41
1:C:222:LEU:HD22	1:C:231:LEU:HD23	2.01	0.41
1:C:291:LEU:HA	1:C:301:VAL:HA	2.02	0.41
1:C:1943:LEU:HD11	1:C:2098:VAL:HG22	2.02	0.41
1:C:2196:ASN:HA	1:C:2199:ARG:HG2	2.01	0.41
1:C:2354:VAL:HB	1:C:2453:ILE:HD11	2.02	0.41
1:C:3696:ASP:O	1:C:3700:GLN:N	2.49	0.41
1:C:3962:PHE:HD1	1:C:4026:MET:SD	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4908:GLU:HG2	1:C:4912:TYR:CE2	2.54	0.41
1:E:472:ARG:HH11	1:E:532:GLY:HA2	1.85	0.41
1:E:1024:TYR:O	1:E:1027:LEU:HG	2.19	0.41
1:E:1726:SER:O	1:E:1730:MET:HG2	2.20	0.41
1:E:1943:LEU:HD11	1:E:2098:VAL:HG22	2.02	0.41
1:E:2104:ARG:O	1:E:2108:GLU:HG2	2.20	0.41
1:E:2556:LEU:HD23	1:E:2559:LEU:HD12	2.02	0.41
1:E:3999:MET:O	1:E:4003:LEU:HB2	2.20	0.41
1:E:4039:MET:SD	1:E:4042:ARG:NH1	2.93	0.41
1:E:4147:LEU:HD23	1:E:4147:LEU:HA	1.77	0.41
2:F:88:PRO:O	2:F:90:ILE:HD12	2.20	0.41
1:G:831:ARG:HG3	1:G:840:VAL:HG11	2.01	0.41
1:G:898:ASP:OD1	1:G:899:ASP:N	2.53	0.41
1:G:1766:GLY:N	1:G:1856:ASP:OD2	2.53	0.41
1:G:1839:VAL:HB	1:G:1840:PRO:HD3	2.01	0.41
1:G:4234:PHE:CE1	1:G:4985:LEU:HD11	2.55	0.41
1:G:4813:LEU:O	1:G:4816:ILE:HG22	2.20	0.41
1:A:649:PHE:HB3	1:A:776:LEU:HB3	2.03	0.41
1:A:1931:LEU:HA	1:A:1932:PRO:HD2	1.88	0.41
1:A:3657:TYR:CE2	1:A:3662:ILE:HD11	2.56	0.41
1:A:4191:GLU:OE1	1:A:5006:GLN:NE2	2.40	0.41
1:C:210:GLU:HB2	1:C:213:TYR:HD2	1.85	0.41
1:C:541:SER:HA	1:C:574:VAL:HG22	2.01	0.41
1:C:1078:GLU:HA	1:C:1237:TRP:CZ2	2.55	0.41
1:C:2104:ARG:O	1:C:2108:GLU:HG2	2.20	0.41
1:C:2553:TYR:HD1	1:C:2556:LEU:HD12	1.85	0.41
1:C:2556:LEU:HD23	1:C:2559:LEU:HD12	2.02	0.41
1:C:4234:PHE:CE1	1:C:4985:LEU:HD11	2.55	0.41
1:C:4661:TYR:CE1	1:C:4665:LYS:HB2	2.55	0.41
1:C:4698:LYS:O	1:C:4701:TRP:HB3	2.20	0.41
2:D:88:PRO:O	2:D:90:ILE:HD12	2.20	0.41
1:E:411:TYR:OH	1:E:445:LEU:HD12	2.19	0.41
1:E:487:VAL:O	1:E:491:ILE:HG13	2.19	0.41
1:E:526:LEU:O	1:E:530:ILE:HD12	2.20	0.41
1:E:571:SER:HA	1:E:572:PRO:HD2	1.92	0.41
1:E:1238:PHE:O	1:E:1609:PRO:HA	2.20	0.41
1:E:1276:THR:HG22	1:E:1563:GLN:CG	2.50	0.41
1:E:1674:CYS:O	1:E:1678:ASN:HB3	2.20	0.41
1:E:1743:ARG:HG3	1:E:1963:GLU:CG	2.43	0.41
1:E:3826:VAL:HG22	1:E:3909:ASN:HB3	2.02	0.41
1:E:4661:TYR:CE1	1:E:4665:LYS:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4986:ALA:O	1:E:4989:MET:HB3	2.20	0.41
1:G:551:LEU:HA	1:G:560:ILE:HG21	2.01	0.41
1:G:1079:LYS:O	1:G:1082:THR:HG23	2.20	0.41
1:G:1674:CYS:O	1:G:1678:ASN:HB3	2.20	0.41
1:G:1943:LEU:HD11	1:G:2098:VAL:HG22	2.02	0.41
1:G:2761:TYR:CE2	1:G:2862:LEU:HD22	2.54	0.41
1:G:3826:VAL:HG22	1:G:3909:ASN:HB3	2.02	0.41
1:G:4690:GLU:OE2	1:G:4690:GLU:HA	2.20	0.41
1:A:415:ILE:HG23	1:A:493:ARG:HD2	2.01	0.41
1:A:737:LEU:HB3	1:A:738:LEU:H	1.55	0.41
1:A:805:PRO:O	1:A:807:GLY:N	2.53	0.41
1:A:2058:SER:O	1:A:2061:SER:OG	2.16	0.41
1:A:2358:ILE:HG21	1:G:195:PHE:HE1	1.79	0.41
1:A:4159:ARG:HG3	1:A:4160:LEU:H	1.83	0.41
1:A:4220:ASP:O	1:A:4224:GLU:CG	2.66	0.41
1:A:4805:ASN:OD1	1:A:4806:ASN:N	2.54	0.41
1:A:4986:ALA:O	1:A:4989:MET:HB3	2.20	0.41
1:C:102:LEU:HD12	1:C:105:HIS:CE1	2.55	0.41
1:C:680:THR:HG21	1:C:787:VAL:HG23	2.03	0.41
1:C:781:VAL:HG11	1:C:789:VAL:HG21	2.01	0.41
1:C:835:ARG:NH2	1:C:1211:LEU:HD13	2.24	0.41
1:C:1238:PHE:O	1:C:1609:PRO:HA	2.20	0.41
1:C:2498:HIS:O	1:C:2501:SER:OG	2.22	0.41
1:C:4986:ALA:O	1:C:4989:MET:HB3	2.20	0.41
2:D:15:PHE:HE1	2:D:67:SER:HB3	1.86	0.41
1:E:176:SER:O	1:E:178:ARG:HG3	2.21	0.41
1:E:1079:LYS:O	1:E:1082:THR:HG23	2.20	0.41
1:E:1291:LEU:HD23	1:E:1293:LEU:N	2.29	0.41
1:E:1297:PHE:CB	1:E:1545:ASN:HA	2.42	0.41
1:E:2341:VAL:HG22	1:E:2342:ASN:N	2.35	0.41
1:G:252:VAL:HG23	1:G:257:ARG:NE	2.34	0.41
1:G:445:LEU:HB3	1:G:521:LEU:HG	2.02	0.41
1:G:1221:GLU:HB2	1:G:1223:PHE:CE2	2.54	0.41
1:G:2143:THR:N	1:G:3651:ASN:OD1	2.38	0.41
1:G:2553:TYR:CD1	1:G:2556:LEU:HD12	2.55	0.41
1:G:3841:VAL:HG12	1:G:3843:ASP:N	2.31	0.41
1:G:3891:LEU:HB3	1:G:3899:PHE:HE2	1.83	0.41
1:G:4003:LEU:HA	1:G:4009:GLN:HG2	2.03	0.41
1:G:4908:GLU:HG2	1:G:4912:TYR:CE2	2.54	0.41
1:A:876:GLU:O	1:A:880:GLU:HG3	2.20	0.41
1:A:1238:PHE:O	1:A:1609:PRO:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1287:LEU:HD13	1:A:1556:PRO:HD3	2.03	0.41
1:A:1455:PRO:HA	1:A:1549:PHE:CE2	2.55	0.41
1:A:3999:MET:O	1:A:4003:LEU:HB2	2.20	0.41
1:A:4003:LEU:HA	1:A:4009:GLN:HG2	2.03	0.41
1:C:445:LEU:HB3	1:C:521:LEU:HG	2.02	0.41
1:C:649:PHE:HB3	1:C:776:LEU:HB3	2.03	0.41
1:C:824:GLU:HA	1:C:825:PRO:HD3	1.83	0.41
1:C:1564:PHE:HE2	1:C:1601:MET:CE	2.32	0.41
1:C:1808:ARG:HB2	1:C:1854:PHE:CD1	2.52	0.41
1:C:2094:LEU:O	1:C:2097:LEU:HG	2.20	0.41
1:C:2326:CYS:O	1:C:2329:GLU:HG2	2.20	0.41
1:C:2930:LEU:HB3	1:C:2937:VAL:HG21	2.02	0.41
1:C:3826:VAL:HG22	1:C:3909:ASN:HB3	2.02	0.41
1:C:3844:LEU:HD11	1:C:3936:TYR:CB	2.49	0.41
1:E:274:LEU:HD21	1:E:316:PHE:CD2	2.56	0.41
1:E:580:GLU:HG2	1:E:620:LEU:CD1	2.49	0.41
1:E:831:ARG:HG3	1:E:840:VAL:HG11	2.01	0.41
1:E:1615:VAL:HG12	1:E:1634:LEU:CD1	2.50	0.41
1:E:1734:TYR:OH	1:E:1948:ASP:OD1	2.39	0.41
1:E:1830:VAL:HB	1:E:1837:GLN:HG3	2.02	0.41
1:E:4003:LEU:HA	1:E:4009:GLN:HG2	2.03	0.41
1:E:4698:LYS:O	1:E:4701:TRP:HB3	2.20	0.41
2:F:82:TYR:CD2	2:F:87:HIS:HB2	2.55	0.41
1:G:680:THR:HG21	1:G:787:VAL:HG23	2.03	0.41
1:G:720:HIS:HB2	1:G:728:ARG:O	2.21	0.41
1:G:2930:LEU:HB3	1:G:2937:VAL:HG21	2.02	0.41
1:G:3970:GLN:HE22	1:G:4029:SER:HB3	1.83	0.41
2:H:15:PHE:HE1	2:H:67:SER:HB3	1.86	0.41
1:A:176:SER:O	1:A:178:ARG:HG3	2.21	0.41
1:A:274:LEU:HD21	1:A:316:PHE:CD2	2.56	0.41
1:A:781:VAL:HG11	1:A:789:VAL:HG21	2.01	0.41
1:A:898:ASP:OD1	1:A:899:ASP:N	2.53	0.41
1:A:1478:ASP:C	1:A:1480:GLN:H	2.11	0.41
1:A:1766:GLY:N	1:A:1856:ASP:OD2	2.53	0.41
1:A:1943:LEU:HD11	1:A:2098:VAL:HG22	2.02	0.41
1:A:2354:VAL:HB	1:A:2453:ILE:HD11	2.02	0.41
1:A:3669:PHE:CE1	1:A:3670:GLU:CG	3.04	0.41
1:A:4661:TYR:CE1	1:A:4665:LYS:HB2	2.55	0.41
1:A:4698:LYS:O	1:A:4701:TRP:HB3	2.20	0.41
1:C:793:LEU:HB2	1:C:1626:TRP:HZ3	1.84	0.41
1:C:805:PRO:O	1:C:807:GLY:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1455:PRO:HA	1:C:1549:PHE:CE2	2.55	0.41
1:C:1684:ALA:HB1	2:D:89:GLY:O	2.20	0.41
1:E:898:ASP:OD1	1:E:899:ASP:N	2.53	0.41
1:E:1684:ALA:HB1	2:F:89:GLY:O	2.20	0.41
1:E:4693:GLY:O	1:E:4695:ASP:CA	2.58	0.41
1:E:4805:ASN:OD1	1:E:4806:ASN:N	2.54	0.41
2:F:16:PRO:HD2	2:F:64:ALA:O	2.19	0.41
2:F:40:ARG:O	2:F:43:ASN:CA	2.68	0.41
1:G:210:GLU:HB2	1:G:213:TYR:HD2	1.85	0.41
1:G:669:ASP:H	1:G:789:VAL:HA	1.85	0.41
1:G:1078:GLU:HA	1:G:1237:TRP:CZ2	2.55	0.41
1:G:3787:LYS:HG3	1:G:3788:GLY:H	1.84	0.41
1:G:3955:MET:O	1:G:4019:LEU:HD12	2.20	0.41
1:G:3995:VAL:O	1:G:3999:MET:HB2	2.21	0.41
1:G:4687:TYR:HE2	1:G:4703:ARG:CA	2.33	0.41
1:G:4897:ILE:HG23	1:G:4898:GLY:N	2.34	0.41
1:A:472:ARG:HH11	1:A:532:GLY:HA2	1.85	0.41
1:A:680:THR:HG21	1:A:787:VAL:HG23	2.03	0.41
1:A:804:PRO:C	1:A:806:PRO:N	2.73	0.41
1:A:2104:ARG:O	1:A:2108:GLU:HG2	2.20	0.41
1:C:176:SER:O	1:C:178:ARG:HG3	2.21	0.41
1:C:309:THR:O	1:C:313:SER:OG	2.23	0.41
1:C:534:ARG:HG2	1:C:570:GLU:O	2.21	0.41
1:C:1728:ARG:CG	1:C:1850:VAL:HG11	2.49	0.41
1:C:3657:TYR:CE2	1:C:3662:ILE:HD11	2.56	0.41
1:C:3999:MET:O	1:C:4003:LEU:HB2	2.20	0.41
1:C:4003:LEU:HA	1:C:4009:GLN:HG2	2.03	0.41
1:C:4581:LYS:HG2	1:C:4632:LEU:HD22	2.03	0.41
1:E:649:PHE:HB3	1:E:776:LEU:HB3	2.03	0.41
1:E:793:LEU:HB2	1:E:1626:TRP:HZ3	1.84	0.41
1:E:1287:LEU:HD13	1:E:1556:PRO:HD3	2.03	0.41
1:E:1839:VAL:HB	1:E:1840:PRO:HD3	2.01	0.41
1:E:2354:VAL:HB	1:E:2453:ILE:HD11	2.02	0.41
1:E:2553:TYR:CD1	1:E:2556:LEU:HD12	2.55	0.41
1:E:2819:TRP:HH2	1:E:2881:ASN:HB2	1.86	0.41
1:E:4581:LYS:HG2	1:E:4632:LEU:HD22	2.03	0.41
1:E:4862:PHE:CD2	1:E:4913:ARG:HD2	2.56	0.41
1:G:534:ARG:HG2	1:G:570:GLU:O	2.21	0.41
1:G:1246:GLU:C	1:G:1602:PRO:HB3	2.41	0.41
1:G:1728:ARG:CG	1:G:1850:VAL:HG11	2.49	0.41
1:G:1769:THR:OG1	1:G:1770:SER:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1850:VAL:HG22	1:G:1945:TYR:CD1	2.56	0.41
1:G:2799:GLU:HA	1:G:2802:LYS:HD2	2.03	0.41
1:G:3916:ILE:CG2	1:G:3980:LEU:HD12	2.49	0.41
1:G:4898:GLY:HA3	1:G:4917:ASP:OD2	2.20	0.41
1:G:4971:THR:HG23	1:G:4974:GLY:HA3	2.02	0.41
1:A:156:GLN:NE2	1:C:225:GLY:C	2.74	0.41
1:A:534:ARG:HG2	1:A:570:GLU:O	2.21	0.41
1:A:564:LEU:O	1:A:568:LEU:HG	2.21	0.41
1:A:1734:TYR:OH	1:A:1948:ASP:OD1	2.39	0.41
1:A:2761:TYR:CE2	1:A:2862:LEU:HD22	2.54	0.41
1:A:3840:SER:HB2	1:A:3881:THR:HG21	2.03	0.41
1:A:4690:GLU:OE2	1:A:4690:GLU:HA	2.20	0.41
1:A:4895:GLY:HA2	1:A:4921:PHE:CE1	2.50	0.41
1:C:156:GLN:NE2	1:E:225:GLY:C	2.74	0.41
1:C:548:VAL:HG11	1:C:582:HIS:HA	2.02	0.41
1:C:1433:TYR:CE1	1:C:1583:GLU:HB2	2.56	0.41
1:C:1772:ARG:HA	1:C:1773:PRO:HD3	1.94	0.41
1:C:1780:PRO:HD3	1:C:1801:ALA:HB3	2.03	0.41
1:C:2431:ASP:O	1:C:2435:ARG:HB2	2.21	0.41
1:C:3669:PHE:CE1	1:C:3670:GLU:CG	3.04	0.41
1:E:283:ARG:HA	1:E:290:TYR:HD1	1.86	0.41
1:E:568:LEU:HD12	1:E:602:VAL:HG13	2.02	0.41
1:E:1078:GLU:HA	1:E:1237:TRP:CZ2	2.55	0.41
1:E:1246:GLU:C	1:E:1602:PRO:HB3	2.41	0.41
1:E:2326:CYS:O	1:E:2329:GLU:HG2	2.20	0.41
1:E:3669:PHE:CE1	1:E:3670:GLU:CG	3.04	0.41
1:E:4837:LEU:HD11	1:E:4932:ILE:HG23	2.03	0.41
1:G:102:LEU:HD12	1:G:105:HIS:CE1	2.55	0.41
1:G:176:SER:O	1:G:178:ARG:HG3	2.21	0.41
1:G:526:LEU:O	1:G:530:ILE:HD12	2.20	0.41
1:G:1131:ARG:CD	1:G:1139:PHE:CG	3.04	0.41
1:G:1237:TRP:CZ2	1:G:1655:GLU:HB2	2.55	0.41
1:G:1287:LEU:HD13	1:G:1556:PRO:HD3	2.03	0.41
1:G:1772:ARG:HA	1:G:1773:PRO:HD3	1.94	0.41
1:G:1842:LEU:HD21	1:G:1926:LEU:HD21	2.03	0.41
1:G:2104:ARG:O	1:G:2108:GLU:HG2	2.20	0.41
2:H:82:TYR:CD2	2:H:87:HIS:HB2	2.55	0.41
2:H:84:ALA:O	2:H:93:PRO:HB3	2.21	0.41
1:A:266:ARG:NH2	1:A:272:SER:OG	2.53	0.41
1:A:287:THR:HB	1:A:289:ARG:HH11	1.85	0.41
1:A:515:TRP:CH2	1:A:555:GLU:CG	2.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:548:VAL:HG11	1:A:582:HIS:HA	2.02	0.41
1:A:1022:VAL:O	1:A:1023:PRO:C	2.59	0.41
1:A:1079:LYS:O	1:A:1082:THR:HG23	2.20	0.41
1:A:1943:LEU:HD22	1:A:2123:LEU:HD13	2.03	0.41
1:A:3962:PHE:HD1	1:A:4026:MET:SD	2.43	0.41
1:A:3970:GLN:HE22	1:A:4029:SER:HB3	1.83	0.41
1:A:4862:PHE:CD2	1:A:4913:ARG:HD2	2.56	0.41
1:A:4971:THR:HG23	1:A:4974:GLY:HA3	2.02	0.41
1:A:5009:TYR:O	1:A:5013:MET:HG2	2.21	0.41
1:C:551:LEU:HA	1:C:560:ILE:HG21	2.01	0.41
1:C:876:GLU:O	1:C:880:GLU:HG3	2.20	0.41
1:C:1022:VAL:O	1:C:1023:PRO:C	2.59	0.41
1:C:1079:LYS:O	1:C:1082:THR:HG23	2.20	0.41
1:C:1131:ARG:CD	1:C:1139:PHE:CG	3.04	0.41
1:C:4805:ASN:OD1	1:C:4806:ASN:N	2.54	0.41
1:E:159:GLU:O	1:G:3928:GLU:OE2	2.39	0.41
1:E:252:VAL:HG23	1:E:257:ARG:NE	2.34	0.41
1:E:680:THR:HG21	1:E:787:VAL:HG23	2.03	0.41
1:E:1455:PRO:HA	1:E:1549:PHE:CE2	2.55	0.41
1:E:2431:ASP:O	1:E:2435:ARG:HB2	2.21	0.41
1:E:2761:TYR:CE2	1:E:2862:LEU:HD22	2.54	0.41
1:E:3844:LEU:HD11	1:E:3936:TYR:CB	2.49	0.41
1:E:4690:GLU:OE2	1:E:4690:GLU:HA	2.20	0.41
1:G:1455:PRO:HA	1:G:1549:PHE:CE2	2.55	0.41
1:G:3669:PHE:CD1	1:G:3669:PHE:C	2.87	0.41
1:G:3669:PHE:CE1	1:G:3670:GLU:CG	3.04	0.41
1:G:3916:ILE:O	1:G:3920:VAL:HG23	2.20	0.41
1:G:3962:PHE:HD1	1:G:4026:MET:SD	2.43	0.41
1:G:4698:LYS:O	1:G:4701:TRP:HB3	2.20	0.41
1:G:5009:TYR:O	1:G:5013:MET:HG2	2.21	0.41
1:A:14:LEU:HB2	1:A:101:LEU:HD12	2.03	0.41
1:A:161:GLU:CG	1:C:3984:ARG:CD	2.94	0.41
1:A:210:GLU:HB2	1:A:213:TYR:HD2	1.85	0.41
1:A:222:LEU:HD22	1:A:231:LEU:HD23	2.01	0.41
1:A:580:GLU:HA	1:A:620:LEU:HD11	2.03	0.41
1:A:669:ASP:H	1:A:789:VAL:HA	1.85	0.41
1:A:758:ARG:NH1	1:A:804:PRO:CB	2.77	0.41
1:A:1078:GLU:HA	1:A:1237:TRP:CZ2	2.55	0.41
1:A:1112:ASP:OD1	1:A:1606:SER:OG	2.38	0.41
1:A:1216:ILE:O	1:A:1220:GLN:NE2	2.54	0.41
1:A:1646:ARG:HH21	1:A:1656:ARG:HH22	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1716:ILE:O	1:A:1721:GLU:N	2.49	0.41
1:A:1780:PRO:HD3	1:A:1801:ALA:HB3	2.03	0.41
1:A:1803:PRO:HB2	1:A:1806:ALA:HB3	2.03	0.41
1:A:1842:LEU:HD21	1:A:1926:LEU:HD21	2.03	0.41
1:A:1856:ASP:O	1:A:1859:VAL:N	2.54	0.41
1:A:2799:GLU:HA	1:A:2802:LYS:HD2	2.03	0.41
1:A:3826:VAL:HG22	1:A:3909:ASN:HB3	2.02	0.41
1:A:3955:MET:O	1:A:4019:LEU:HD12	2.20	0.41
1:A:3995:VAL:O	1:A:3999:MET:HB2	2.21	0.41
1:A:4897:ILE:HG23	1:A:4898:GLY:N	2.34	0.41
2:B:15:PHE:HE1	2:B:67:SER:HB3	1.86	0.41
2:B:92:PRO:HA	2:B:93:PRO:HD3	1.92	0.41
1:C:159:GLU:O	1:E:3928:GLU:OE2	2.39	0.41
1:C:220:LEU:CD1	1:C:390:LEU:HD22	2.49	0.41
1:C:273:HIS:N	1:C:334:MET:O	2.51	0.41
1:C:287:THR:HB	1:C:289:ARG:HH11	1.85	0.41
1:C:568:LEU:HD12	1:C:602:VAL:HG13	2.02	0.41
1:C:580:GLU:HA	1:C:620:LEU:HD11	2.03	0.41
1:C:898:ASP:OD1	1:C:899:ASP:N	2.53	0.41
1:C:1131:ARG:HD3	1:C:1139:PHE:CG	2.56	0.41
1:C:1216:ILE:O	1:C:1220:GLN:NE2	2.54	0.41
1:C:1646:ARG:HH21	1:C:1656:ARG:HH22	1.69	0.41
1:C:1726:SER:O	1:C:1730:MET:HG2	2.20	0.41
1:C:2341:VAL:HG22	1:C:2342:ASN:N	2.35	0.41
1:C:4002:LYS:HE2	1:C:4002:LYS:HB3	1.92	0.41
1:E:156:GLN:NE2	1:G:225:GLY:C	2.74	0.41
1:E:210:GLU:HB2	1:E:213:TYR:HD2	1.85	0.41
1:E:445:LEU:HB3	1:E:521:LEU:HG	2.02	0.41
1:E:662:TRP:CZ3	1:E:814:ALA:HB2	2.56	0.41
1:E:682:LEU:HD12	1:E:682:LEU:HA	1.80	0.41
1:E:720:HIS:HB2	1:E:728:ARG:O	2.21	0.41
1:E:805:PRO:O	1:E:807:GLY:N	2.53	0.41
1:E:941:MET:HA	1:E:1051:TYR:HD1	1.86	0.41
1:E:1022:VAL:O	1:E:1023:PRO:C	2.59	0.41
1:E:1131:ARG:CD	1:E:1139:PHE:CG	3.04	0.41
1:E:1433:TYR:CE1	1:E:1583:GLU:HB2	2.56	0.41
1:E:1646:ARG:HH21	1:E:1656:ARG:HH22	1.69	0.41
1:E:1685:LEU:O	1:E:1689:VAL:HG12	2.21	0.41
1:E:1762:LEU:CD1	1:E:1863:LEU:HD12	2.50	0.41
1:E:1856:ASP:O	1:E:1859:VAL:N	2.54	0.41
1:E:1961:PHE:CG	1:E:2066:LEU:HG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2144:ILE:HG21	1:E:2152:THR:HG21	2.03	0.41
1:E:2553:TYR:HD1	1:E:2556:LEU:HD12	1.85	0.41
1:E:2822:THR:OG1	1:E:2938:THR:OG1	2.24	0.41
1:E:3995:VAL:O	1:E:3999:MET:HB2	2.21	0.41
1:E:4227:GLU:HG2	1:E:4228:ALA:N	2.34	0.41
1:E:4716:TRP:O	1:E:4716:TRP:HE3	2.04	0.41
2:F:15:PHE:HE1	2:F:67:SER:HB3	1.86	0.41
1:G:14:LEU:HB2	1:G:101:LEU:HD12	2.03	0.41
1:G:266:ARG:NH2	1:G:272:SER:OG	2.53	0.41
1:G:291:LEU:HA	1:G:301:VAL:HA	2.02	0.41
1:G:541:SER:HA	1:G:574:VAL:HG22	2.01	0.41
1:G:571:SER:HA	1:G:572:PRO:HD2	1.92	0.41
1:G:600:LEU:CD2	1:G:1666:THR:CA	2.96	0.41
1:G:622:THR:HG22	1:G:626:LEU:HD12	2.02	0.41
1:G:662:TRP:CZ3	1:G:814:ALA:HB2	2.56	0.41
1:G:711:LEU:HD23	1:G:711:LEU:HA	1.84	0.41
1:G:941:MET:HA	1:G:1051:TYR:HD1	1.86	0.41
1:G:1646:ARG:HH21	1:G:1656:ARG:HH22	1.69	0.41
1:G:1803:PRO:HB2	1:G:1806:ALA:HB3	2.03	0.41
1:G:1856:ASP:O	1:G:1859:VAL:N	2.54	0.41
1:G:2198:MET:HE1	1:G:2203:MET:HE1	1.98	0.41
1:G:3840:SER:HB2	1:G:3881:THR:HG21	2.03	0.41
1:G:4093:PHE:CG	1:G:4112:LEU:HD21	2.56	0.41
1:G:4716:TRP:O	1:G:4716:TRP:HE3	2.04	0.41
1:G:4805:ASN:OD1	1:G:4806:ASN:N	2.54	0.41
2:H:11:ASP:OD1	2:H:67:SER:HB2	2.21	0.41
2:H:40:ARG:O	2:H:43:ASN:CA	2.68	0.41
1:A:161:GLU:HG2	1:C:3984:ARG:HD3	1.99	0.41
1:A:2431:ASP:O	1:A:2435:ARG:HB2	2.21	0.41
1:A:2819:TRP:HH2	1:A:2881:ASN:HB2	1.86	0.41
1:A:3916:ILE:O	1:A:3920:VAL:HG23	2.20	0.41
1:A:4020:GLN:O	1:A:4024:VAL:HG22	2.21	0.41
1:C:14:LEU:HB2	1:C:101:LEU:HD12	2.03	0.41
1:C:1287:LEU:HD13	1:C:1556:PRO:HD3	2.03	0.41
1:C:1453:VAL:HG12	1:C:1454:THR:O	2.21	0.41
1:C:1685:LEU:O	1:C:1689:VAL:HG12	2.21	0.41
1:C:1730:MET:HE1	1:C:2159:LEU:HB2	2.02	0.41
1:C:1856:ASP:O	1:C:1859:VAL:N	2.54	0.41
1:C:1961:PHE:CG	1:C:2066:LEU:HG	2.56	0.41
1:C:2340:PHE:HB2	1:C:2435:ARG:CD	2.51	0.41
1:C:3966:THR:HG22	1:C:4026:MET:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3995:VAL:O	1:C:3999:MET:HB2	2.21	0.41
1:C:4020:GLN:O	1:C:4024:VAL:HG22	2.21	0.41
1:C:4971:THR:HG23	1:C:4974:GLY:HA3	2.02	0.41
1:E:876:GLU:O	1:E:880:GLU:HG3	2.20	0.41
1:E:1216:ILE:O	1:E:1220:GLN:NE2	2.54	0.41
1:E:1237:TRP:CZ2	1:E:1655:GLU:HB2	2.55	0.41
1:E:1803:PRO:HB2	1:E:1806:ALA:HB3	2.03	0.41
1:E:2793:PRO:HG3	1:E:2855:TYR:HB2	2.03	0.41
1:E:3657:TYR:CE2	1:E:3662:ILE:HD11	2.56	0.41
1:G:548:VAL:HG11	1:G:582:HIS:HA	2.02	0.41
1:G:649:PHE:HB3	1:G:776:LEU:HB3	2.03	0.41
1:G:753:PRO:HG2	1:G:770:ALA:H	1.86	0.41
1:G:805:PRO:O	1:G:807:GLY:N	2.53	0.41
1:G:876:GLU:O	1:G:880:GLU:HG3	2.20	0.41
1:G:1637:MET:SD	1:G:1696:HIS:HD2	2.44	0.41
1:G:2553:TYR:HD1	1:G:2556:LEU:HD12	1.85	0.41
1:G:2793:PRO:HG3	1:G:2855:TYR:HB2	2.03	0.41
1:G:3968:TYR:HB3	1:G:3976:ASN:HD21	1.87	0.41
1:G:4687:TYR:CD2	1:G:4706:LEU:HD23	2.56	0.41
1:G:4842:GLY:O	1:G:4846:VAL:HG23	2.21	0.41
1:A:225:GLY:C	1:G:156:GLN:NE2	2.74	0.40
1:A:334:MET:H	1:A:334:MET:HG3	1.60	0.40
1:A:748:LEU:HD13	1:A:755:ILE:CG1	2.52	0.40
1:A:1453:VAL:HG12	1:A:1454:THR:O	2.21	0.40
1:A:1685:LEU:O	1:A:1689:VAL:HG12	2.21	0.40
1:A:4842:GLY:O	1:A:4846:VAL:HG23	2.21	0.40
1:C:82:LEU:HD13	1:C:144:GLU:HG2	2.03	0.40
1:C:274:LEU:HD21	1:C:316:PHE:CD2	2.56	0.40
1:C:941:MET:HA	1:C:1051:TYR:HD1	1.86	0.40
1:C:1100:MET:HB3	1:C:1100:MET:HE2	1.92	0.40
1:C:1237:TRP:CZ2	1:C:1655:GLU:HB2	2.55	0.40
1:C:1940:CYS:SG	1:C:2123:LEU:HD12	2.62	0.40
1:C:4093:PHE:CG	1:C:4112:LEU:HD21	2.56	0.40
1:C:4862:PHE:HB3	1:C:4901:ILE:CG1	2.46	0.40
1:C:5009:TYR:O	1:C:5013:MET:HG2	2.21	0.40
1:E:291:LEU:HA	1:E:301:VAL:HA	2.02	0.40
1:E:548:VAL:HG11	1:E:582:HIS:HA	2.02	0.40
1:E:1698:LEU:HA	1:E:1712:TYR:CE1	2.56	0.40
1:E:1850:VAL:HG22	1:E:1945:TYR:CD1	2.56	0.40
1:E:2094:LEU:O	1:E:2097:LEU:HG	2.20	0.40
1:E:2930:LEU:HB3	1:E:2937:VAL:HG21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3828:PHE:O	1:E:3831:SER:HB3	2.22	0.40
1:E:3840:SER:HB2	1:E:3881:THR:HG21	2.03	0.40
1:E:3968:TYR:HB3	1:E:3976:ASN:HD21	1.87	0.40
1:E:4191:GLU:OE1	1:E:5006:GLN:NE2	2.40	0.40
1:E:4842:GLY:O	1:E:4846:VAL:HG23	2.21	0.40
1:G:274:LEU:HD21	1:G:316:PHE:CD2	2.56	0.40
1:G:721:LEU:HD21	1:G:1474:VAL:HG11	2.03	0.40
1:G:1078:GLU:HG3	1:G:1237:TRP:HZ2	1.86	0.40
1:G:1131:ARG:HD3	1:G:1139:PHE:CG	2.56	0.40
1:G:1685:LEU:O	1:G:1689:VAL:HG12	2.21	0.40
1:G:3828:PHE:O	1:G:3831:SER:HB3	2.22	0.40
1:A:159:GLU:HG2	1:A:160:GLY:N	2.37	0.40
1:A:454:PRO:HA	1:A:455:PRO:HD3	1.95	0.40
1:A:720:HIS:HB2	1:A:728:ARG:O	2.21	0.40
1:A:721:LEU:HD21	1:A:1474:VAL:HG11	2.03	0.40
1:A:1850:VAL:HG22	1:A:1945:TYR:CD1	2.56	0.40
1:A:2927:LEU:HD23	1:A:2930:LEU:HD12	2.04	0.40
1:A:3767:GLN:CD	1:A:3809:ASN:HD21	2.21	0.40
1:A:3906:GLN:NE2	1:A:3909:ASN:HD22	2.11	0.40
1:A:4243:PHE:O	1:A:4247:ILE:HG13	2.22	0.40
1:A:4581:LYS:HG2	1:A:4632:LEU:HD22	2.03	0.40
2:B:84:ALA:O	2:B:93:PRO:HB3	2.21	0.40
1:C:283:ARG:HA	1:C:290:TYR:HD1	1.86	0.40
1:C:596:ASN:HB2	1:C:599:VAL:HG23	1.93	0.40
1:C:671:VAL:HG13	1:C:787:VAL:HG22	2.03	0.40
1:C:720:HIS:HB2	1:C:728:ARG:O	2.21	0.40
1:C:753:PRO:HG2	1:C:770:ALA:H	1.86	0.40
1:C:833:GLY:HA3	1:C:838:HIS:ND1	2.37	0.40
1:C:1018:ASN:CG	1:C:1021:LEU:CD2	2.89	0.40
1:C:1092:PHE:CG	1:C:1102:VAL:HG21	2.57	0.40
1:C:1734:TYR:OH	1:C:1948:ASP:OD1	2.39	0.40
1:C:1763:PRO:HG3	1:C:2094:LEU:CD2	2.51	0.40
1:C:2819:TRP:HH2	1:C:2881:ASN:HB2	1.86	0.40
1:C:3828:PHE:O	1:C:3831:SER:HB3	2.22	0.40
1:C:3955:MET:O	1:C:4019:LEU:HD12	2.20	0.40
1:C:4243:PHE:O	1:C:4247:ILE:HG13	2.22	0.40
1:C:4687:TYR:HD1	1:C:4687:TYR:N	2.20	0.40
2:D:11:ASP:OD1	2:D:12:GLY:N	2.54	0.40
1:E:161:GLU:HG2	1:G:3984:ARG:HD3	1.99	0.40
1:E:195:PHE:CZ	1:G:2358:ILE:HG23	2.45	0.40
1:E:1198:GLN:OE1	1:E:1198:GLN:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1464:MET:O	1:E:1466:PHE:N	2.52	0.40
1:E:1730:MET:HE1	1:E:2159:LEU:HB2	2.02	0.40
1:E:1940:CYS:SG	1:E:2123:LEU:HD12	2.62	0.40
1:E:1958:LEU:HD11	1:E:3657:TYR:CE2	2.54	0.40
1:E:3962:PHE:HD1	1:E:4026:MET:SD	2.43	0.40
1:G:283:ARG:HA	1:G:290:TYR:HD1	1.86	0.40
1:G:564:LEU:O	1:G:568:LEU:HG	2.21	0.40
1:G:748:LEU:HD13	1:G:755:ILE:CG1	2.52	0.40
1:G:833:GLY:HA3	1:G:838:HIS:ND1	2.37	0.40
1:G:993:HIS:CD2	1:G:1024:TYR:HB2	2.56	0.40
1:G:1098:GLY:HA3	1:G:1198:GLN:HG2	2.03	0.40
1:G:1684:ALA:HB1	2:H:89:GLY:O	2.20	0.40
1:G:1763:PRO:HG3	1:G:2094:LEU:CD2	2.51	0.40
1:G:1940:CYS:SG	1:G:2123:LEU:HD12	2.62	0.40
1:G:2123:LEU:HA	1:G:2126:ARG:HB3	2.03	0.40
1:G:2927:LEU:HD23	1:G:2930:LEU:HD12	2.04	0.40
1:G:3657:TYR:CE2	1:G:3662:ILE:HD11	2.56	0.40
1:G:3716:LEU:HD11	1:G:3785:ALA:HB1	2.03	0.40
1:G:3906:GLN:NE2	1:G:3909:ASN:HD22	2.11	0.40
1:A:283:ARG:HA	1:A:290:TYR:HD1	1.86	0.40
1:A:622:THR:HG22	1:A:626:LEU:HD12	2.02	0.40
1:A:753:PRO:HG2	1:A:770:ALA:H	1.86	0.40
1:A:833:GLY:HA3	1:A:838:HIS:ND1	2.37	0.40
1:A:941:MET:HA	1:A:1051:TYR:HD1	1.86	0.40
1:A:1078:GLU:HG3	1:A:1237:TRP:HZ2	1.86	0.40
1:A:1246:GLU:C	1:A:1602:PRO:HB3	2.41	0.40
1:A:1637:MET:SD	1:A:1696:HIS:HD2	2.44	0.40
1:A:1863:LEU:HD23	1:A:1863:LEU:HA	1.87	0.40
1:A:1940:CYS:SG	1:A:2123:LEU:HD12	2.62	0.40
1:A:1961:PHE:CG	1:A:2066:LEU:HG	2.56	0.40
1:A:2553:TYR:HD1	1:A:2556:LEU:HD12	1.85	0.40
1:A:2556:LEU:HD23	1:A:2559:LEU:HD12	2.02	0.40
2:B:11:ASP:OD1	2:B:67:SER:HB2	2.21	0.40
1:C:161:GLU:CG	1:E:3984:ARG:CD	2.94	0.40
1:C:176:SER:O	1:E:2456:ILE:HD12	2.22	0.40
1:C:472:ARG:HH11	1:C:532:GLY:HA2	1.85	0.40
1:C:1698:LEU:HA	1:C:1712:TYR:CE1	2.56	0.40
1:C:1842:LEU:HD21	1:C:1926:LEU:HD21	2.03	0.40
1:C:1848:LEU:HD21	1:C:1854:PHE:CZ	2.53	0.40
1:C:2138:LEU:N	1:C:2139:PRO:HD2	2.37	0.40
1:C:2554:LEU:HD11	1:C:2594:UNK:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2799:GLU:HA	1:C:2802:LYS:HD2	2.03	0.40
1:C:4837:LEU:HD11	1:C:4932:ILE:HG23	2.03	0.40
1:C:4961:CYS:HG	1:C:4978:HIS:HE2	1.68	0.40
2:D:26:TYR:O	2:D:39:SER:CB	2.69	0.40
1:E:49:LEU:HD13	1:E:189:LEU:CB	2.30	0.40
1:E:287:THR:HB	1:E:289:ARG:HH11	1.85	0.40
1:E:833:GLY:HA3	1:E:838:HIS:ND1	2.37	0.40
1:E:993:HIS:CD2	1:E:1024:TYR:HB2	2.56	0.40
1:E:2123:LEU:HA	1:E:2126:ARG:HB3	2.03	0.40
1:E:4093:PHE:CG	1:E:4112:LEU:HD21	2.56	0.40
1:G:159:GLU:HG2	1:G:160:GLY:N	2.37	0.40
1:G:1018:ASN:CG	1:G:1021:LEU:CD2	2.89	0.40
1:G:1022:VAL:O	1:G:1023:PRO:C	2.59	0.40
1:G:1198:GLN:N	1:G:1198:GLN:OE1	2.54	0.40
1:G:4243:PHE:O	1:G:4247:ILE:HG13	2.22	0.40
2:H:28:GLY:N	2:H:37:ASP:O	2.39	0.40
1:A:484:LEU:HD11	1:A:536:ASN:OD1	2.22	0.40
1:A:1092:PHE:CG	1:A:1102:VAL:HG21	2.57	0.40
1:A:1122:TYR:CZ	1:A:1133:HIS:CE1	2.88	0.40
1:A:1131:ARG:HD3	1:A:1139:PHE:CG	2.56	0.40
1:A:1255:TYR:CE1	1:A:1287:LEU:HD11	2.57	0.40
1:A:1433:TYR:CE1	1:A:1583:GLU:HB2	2.56	0.40
1:A:2123:LEU:HA	1:A:2126:ARG:HB3	2.03	0.40
1:A:3828:PHE:O	1:A:3831:SER:HB3	2.22	0.40
1:A:3928:GLU:OE2	1:G:159:GLU:O	2.39	0.40
1:A:3966:THR:HG22	1:A:4026:MET:HA	2.02	0.40
1:A:4192:ARG:HD2	1:A:4194:TYR:OH	2.22	0.40
1:A:4837:LEU:HD11	1:A:4932:ILE:HG23	2.03	0.40
1:C:178:ARG:HH12	1:E:2456:ILE:HG13	1.87	0.40
1:C:484:LEU:HD11	1:C:536:ASN:OD1	2.22	0.40
1:C:564:LEU:O	1:C:568:LEU:HG	2.21	0.40
1:C:662:TRP:CZ3	1:C:814:ALA:HB2	2.56	0.40
1:C:750:LEU:HG	1:C:751:SER:N	2.36	0.40
1:C:806:PRO:O	1:C:808:TYR:CD1	2.73	0.40
1:C:993:HIS:CE1	1:C:1020:ARG:HB3	2.45	0.40
1:C:1803:PRO:HB2	1:C:1806:ALA:HB3	2.03	0.40
1:C:4085:ARG:HB3	1:C:4087:LEU:HD13	2.03	0.40
1:C:4580:TYR:HD2	1:C:4807:PHE:HZ	1.70	0.40
1:C:4690:GLU:OE2	1:C:4690:GLU:HA	2.20	0.40
2:D:11:ASP:OD1	2:D:67:SER:HB2	2.21	0.40
1:E:564:LEU:O	1:E:568:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2763:HIS:NE2	1:E:2792:ARG:O	2.52	0.40
1:E:2862:LEU:HD21	1:E:2929:PHE:HB2	2.03	0.40
1:E:3806:ASN:H	1:E:3890:LEU:HD23	1.87	0.40
1:E:4085:ARG:HB3	1:E:4087:LEU:HD13	2.03	0.40
1:G:287:THR:HB	1:G:289:ARG:HH11	1.85	0.40
1:G:675:LEU:O	1:G:676:THR:OG1	2.28	0.40
1:G:758:ARG:NH1	1:G:804:PRO:CB	2.77	0.40
1:G:1255:TYR:CE1	1:G:1287:LEU:HD11	2.57	0.40
1:G:1615:VAL:HG12	1:G:1634:LEU:CD1	2.50	0.40
1:G:1762:LEU:CD1	1:G:1863:LEU:HD12	2.50	0.40
1:G:2431:ASP:O	1:G:2435:ARG:HB2	2.21	0.40
1:G:2556:LEU:HD23	1:G:2559:LEU:HD12	2.02	0.40
1:G:3714:SER:OG	1:G:3715:LYS:N	2.55	0.40
1:G:4150:LEU:O	1:G:4154:VAL:N	2.36	0.40
1:G:4581:LYS:HG2	1:G:4632:LEU:HD22	2.03	0.40
1:A:3714:SER:OG	1:A:3715:LYS:N	2.55	0.40
1:C:622:THR:HG22	1:C:626:LEU:HD12	2.02	0.40
1:C:975:VAL:HG11	1:C:1047:LEU:HB3	2.03	0.40
1:C:1078:GLU:HG3	1:C:1237:TRP:CZ2	2.57	0.40
1:C:2126:ARG:HG3	1:C:2133:GLU:CD	2.42	0.40
1:C:3805:LEU:HD13	1:C:3890:LEU:HB3	2.03	0.40
1:C:4192:ARG:HD2	1:C:4194:TYR:OH	2.22	0.40
1:C:4904:PRO:CG	1:C:4910:GLU:HA	2.51	0.40
1:E:602:VAL:O	1:E:605:SER:OG	2.25	0.40
1:E:622:THR:HG22	1:E:626:LEU:HD12	2.02	0.40
1:E:1453:VAL:HG12	1:E:1454:THR:O	2.21	0.40
1:E:1780:PRO:HD3	1:E:1801:ALA:HB3	2.03	0.40
1:E:2927:LEU:HD23	1:E:2930:LEU:HD12	2.04	0.40
1:E:4051:SER:HG	1:E:4055:VAL:HG23	1.87	0.40
2:F:11:ASP:OD1	2:F:12:GLY:N	2.54	0.40
2:F:11:ASP:OD1	2:F:67:SER:HB2	2.21	0.40
2:F:84:ALA:O	2:F:93:PRO:HB3	2.21	0.40
1:G:1464:MET:O	1:G:1466:PHE:N	2.52	0.40
1:G:2554:LEU:HD11	1:G:2594:UNK:CB	2.51	0.40
1:G:4020:GLN:O	1:G:4024:VAL:HG22	2.21	0.40
1:G:4862:PHE:CD2	1:G:4913:ARG:HD2	2.56	0.40
2:H:26:TYR:N	2:H:39:SER:CB	2.63	0.40
2:H:42:ARG:C	2:H:44:LYS:H	2.25	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	2991/4599 (65%)	2776 (93%)	155 (5%)	60 (2%)	7	41
1	C	2991/4599 (65%)	2776 (93%)	155 (5%)	60 (2%)	7	41
1	E	2991/4599 (65%)	2776 (93%)	155 (5%)	60 (2%)	7	41
1	G	2991/4599 (65%)	2776 (93%)	155 (5%)	60 (2%)	7	41
2	B	105/107 (98%)	97 (92%)	8 (8%)	0	100	100
2	D	105/107 (98%)	97 (92%)	8 (8%)	0	100	100
2	F	105/107 (98%)	97 (92%)	8 (8%)	0	100	100
2	H	105/107 (98%)	97 (92%)	8 (8%)	0	100	100
All	All	12384/18824 (66%)	11492 (93%)	652 (5%)	240 (2%)	11	42

All (240) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	737	LEU
1	A	807	GLY
1	A	827	LYS
1	A	852	VAL
1	A	1254	HIS
1	A	1479	GLU
1	A	1545	ASN
1	A	1599	MET
1	A	1768	THR
1	A	3941	ASP
1	A	4084	PRO
1	A	4694	ASP
1	A	4984	ASN
1	A	5027	CYS
1	C	737	LEU
1	C	807	GLY
1	C	827	LYS

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Mol	Chain	Res	Type
1	C	852	VAL
1	C	1254	HIS
1	C	1479	GLU
1	C	1545	ASN
1	C	1599	MET
1	C	1768	THR
1	C	3941	ASP
1	C	4084	PRO
1	C	4694	ASP
1	C	4984	ASN
1	C	5027	CYS
1	E	737	LEU
1	E	807	GLY
1	E	827	LYS
1	E	852	VAL
1	E	1254	HIS
1	E	1479	GLU
1	E	1545	ASN
1	E	1599	MET
1	E	1768	THR
1	E	3941	ASP
1	E	4084	PRO
1	E	4694	ASP
1	E	4984	ASN
1	E	5027	CYS
1	G	737	LEU
1	G	807	GLY
1	G	827	LYS
1	G	852	VAL
1	G	1254	HIS
1	G	1479	GLU
1	G	1545	ASN
1	G	1599	MET
1	G	1768	THR
1	G	3941	ASP
1	G	4084	PRO
1	G	4694	ASP
1	G	4984	ASN
1	G	5027	CYS
1	A	611	GLY
1	A	818	ARG
1	A	1463	ASP

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Mol	Chain	Res	Type
1	A	1483	VAL
1	A	2341	VAL
1	A	4036	VAL
1	C	611	GLY
1	C	818	ARG
1	C	1463	ASP
1	C	1483	VAL
1	C	2341	VAL
1	C	4036	VAL
1	E	611	GLY
1	E	818	ARG
1	E	1463	ASP
1	E	1483	VAL
1	E	2341	VAL
1	E	4036	VAL
1	G	611	GLY
1	G	818	ARG
1	G	1463	ASP
1	G	1483	VAL
1	G	2341	VAL
1	G	4036	VAL
1	A	360	ALA
1	A	676	THR
1	A	720	HIS
1	A	806	PRO
1	A	826	ILE
1	A	844	ARG
1	A	1206	GLN
1	A	1286	MET
1	A	1762	LEU
1	A	1769	THR
1	A	1772	ARG
1	A	2826	ALA
1	A	3695	PRO
1	A	4156	HIS
1	A	4208	PRO
1	A	4985	LEU
1	C	360	ALA
1	C	676	THR
1	C	720	HIS
1	C	806	PRO
1	C	826	ILE

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Mol	Chain	Res	Type
1	C	844	ARG
1	C	1206	GLN
1	C	1286	MET
1	C	1762	LEU
1	C	1769	THR
1	C	1772	ARG
1	C	2826	ALA
1	C	3695	PRO
1	C	4156	HIS
1	C	4208	PRO
1	C	4985	LEU
1	E	360	ALA
1	E	676	THR
1	E	720	HIS
1	E	806	PRO
1	E	826	ILE
1	E	844	ARG
1	E	1206	GLN
1	E	1286	MET
1	E	1762	LEU
1	E	1769	THR
1	E	1772	ARG
1	E	2826	ALA
1	E	3695	PRO
1	E	4156	HIS
1	E	4208	PRO
1	E	4985	LEU
1	G	360	ALA
1	G	676	THR
1	G	720	HIS
1	G	806	PRO
1	G	826	ILE
1	G	844	ARG
1	G	1206	GLN
1	G	1286	MET
1	G	1762	LEU
1	G	1769	THR
1	G	1772	ARG
1	G	2826	ALA
1	G	3695	PRO
1	G	4156	HIS
1	G	4208	PRO

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Mol	Chain	Res	Type
1	G	4985	LEU
1	A	842	PRO
1	A	1830	VAL
1	A	2113	SER
1	A	3840	SER
1	A	4120	ASN
1	A	4692	PRO
1	A	5025	GLY
1	C	842	PRO
1	C	1830	VAL
1	C	2113	SER
1	C	3840	SER
1	C	4120	ASN
1	C	4692	PRO
1	C	5025	GLY
1	E	842	PRO
1	E	1830	VAL
1	E	2113	SER
1	E	3840	SER
1	E	4120	ASN
1	E	4692	PRO
1	E	5025	GLY
1	G	842	PRO
1	G	1830	VAL
1	G	2113	SER
1	G	3840	SER
1	G	4120	ASN
1	G	4692	PRO
1	G	5025	GLY
1	A	828	GLU
1	A	1465	ASN
1	A	1690	ASP
1	A	3843	ASP
1	A	4691	GLN
1	A	4732	PHE
1	A	4868	ASP
1	C	828	GLU
1	C	1465	ASN
1	C	1690	ASP
1	C	3843	ASP
1	C	4691	GLN
1	C	4732	PHE

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Mol	Chain	Res	Type
1	C	4868	ASP
1	E	828	GLU
1	E	1465	ASN
1	E	1690	ASP
1	E	3843	ASP
1	E	4691	GLN
1	E	4732	PHE
1	E	4868	ASP
1	G	828	GLU
1	G	1465	ASN
1	G	1690	ASP
1	G	3843	ASP
1	G	4691	GLN
1	G	4732	PHE
1	G	4868	ASP
1	A	691	GLY
1	A	729	PRO
1	A	1854	PHE
1	A	2343	GLY
1	A	2360	LYS
1	A	3826	VAL
1	C	691	GLY
1	C	729	PRO
1	C	1854	PHE
1	C	2343	GLY
1	C	2360	LYS
1	C	3826	VAL
1	E	691	GLY
1	E	729	PRO
1	E	1854	PHE
1	E	2343	GLY
1	E	2360	LYS
1	E	3826	VAL
1	G	691	GLY
1	G	729	PRO
1	G	1854	PHE
1	G	2343	GLY
1	G	2360	LYS
1	G	3826	VAL
1	A	767	VAL
1	A	2900	GLY
1	C	767	VAL

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Mol	Chain	Res	Type
1	C	2900	GLY
1	E	767	VAL
1	E	2900	GLY
1	G	767	VAL
1	G	2900	GLY
1	A	4226	GLY
1	C	4226	GLY
1	E	4226	GLY
1	G	4226	GLY
1	A	1829	PRO
1	C	1829	PRO
1	E	1829	PRO
1	G	1829	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	2507/3406 (74%)	2439 (97%)	68 (3%)	44	69
1	C	2507/3406 (74%)	2439 (97%)	68 (3%)	44	69
1	E	2507/3406 (74%)	2439 (97%)	68 (3%)	44	69
1	G	2507/3406 (74%)	2439 (97%)	68 (3%)	44	69
2	B	89/89 (100%)	88 (99%)	1 (1%)	73	85
2	D	89/89 (100%)	88 (99%)	1 (1%)	73	85
2	F	89/89 (100%)	88 (99%)	1 (1%)	73	85
2	H	89/89 (100%)	88 (99%)	1 (1%)	73	85
All	All	10384/13980 (74%)	10108 (97%)	276 (3%)	48	69

All (276) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	PHE
1	A	45	ARG

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Mol	Chain	Res	Type
1	A	125	ARG
1	A	156	GLN
1	A	157	ARG
1	A	161	GLU
1	A	164	ARG
1	A	167	ASP
1	A	189	LEU
1	A	190	GLN
1	A	218	HIS
1	A	334	MET
1	A	554	LEU
1	A	555	GLU
1	A	557	SER
1	A	595	ARG
1	A	596	ASN
1	A	597	HIS
1	A	598	LYS
1	A	680	THR
1	A	681	HIS
1	A	682	LEU
1	A	721	LEU
1	A	806	PRO
1	A	851	PHE
1	A	865	PRO
1	A	896	VAL
1	A	916	PRO
1	A	979	PRO
1	A	1001	VAL
1	A	1045	THR
1	A	1055	PRO
1	A	1097	THR
1	A	1131	ARG
1	A	1132	TRP
1	A	1134	LEU
1	A	1156	THR
1	A	1479	GLU
1	A	1545	ASN
1	A	1555	LEU
1	A	1680	ARG
1	A	1762	LEU
1	A	1837	GLN
1	A	1856	ASP

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Mol	Chain	Res	Type
1	A	2066	LEU
1	A	2256	TYR
1	A	2919	ASP
1	A	3669	PHE
1	A	3708	THR
1	A	3806	ASN
1	A	3970	GLN
1	A	3973	CYS
1	A	3992	PHE
1	A	4006	ASP
1	A	4009	GLN
1	A	4072	VAL
1	A	4083	ASP
1	A	4106	PRO
1	A	4178	LEU
1	A	4180	ARG
1	A	4189	ARG
1	A	4686	LEU
1	A	4689	THR
1	A	4691	GLN
1	A	4897	ILE
1	A	4901	ILE
1	A	4902	GLU
1	A	4903	ASP
2	B	40	ARG
1	C	13	PHE
1	C	45	ARG
1	C	125	ARG
1	C	156	GLN
1	C	157	ARG
1	C	161	GLU
1	C	164	ARG
1	C	167	ASP
1	C	189	LEU
1	C	190	GLN
1	C	218	HIS
1	C	334	MET
1	C	554	LEU
1	C	555	GLU
1	C	557	SER
1	C	595	ARG
1	C	596	ASN

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Mol	Chain	Res	Type
1	C	597	HIS
1	C	598	LYS
1	C	680	THR
1	C	681	HIS
1	C	682	LEU
1	C	721	LEU
1	C	806	PRO
1	C	851	PHE
1	C	865	PRO
1	C	896	VAL
1	C	916	PRO
1	C	979	PRO
1	C	1001	VAL
1	C	1045	THR
1	C	1055	PRO
1	C	1097	THR
1	C	1131	ARG
1	C	1132	TRP
1	C	1134	LEU
1	C	1156	THR
1	C	1479	GLU
1	C	1545	ASN
1	C	1555	LEU
1	C	1680	ARG
1	C	1762	LEU
1	C	1837	GLN
1	C	1856	ASP
1	C	2066	LEU
1	C	2256	TYR
1	C	2919	ASP
1	C	3669	PHE
1	C	3708	THR
1	C	3806	ASN
1	C	3970	GLN
1	C	3973	CYS
1	C	3992	PHE
1	C	4006	ASP
1	C	4009	GLN
1	C	4072	VAL
1	C	4083	ASP
1	C	4106	PRO
1	C	4178	LEU

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Mol	Chain	Res	Type
1	C	4180	ARG
1	C	4189	ARG
1	C	4686	LEU
1	C	4689	THR
1	C	4691	GLN
1	C	4897	ILE
1	C	4901	ILE
1	C	4902	GLU
1	C	4903	ASP
2	D	40	ARG
1	E	13	PHE
1	E	45	ARG
1	E	125	ARG
1	E	156	GLN
1	E	157	ARG
1	E	161	GLU
1	E	164	ARG
1	E	167	ASP
1	E	189	LEU
1	E	190	GLN
1	E	218	HIS
1	E	334	MET
1	E	554	LEU
1	E	555	GLU
1	E	557	SER
1	E	595	ARG
1	E	596	ASN
1	E	597	HIS
1	E	598	LYS
1	E	680	THR
1	E	681	HIS
1	E	682	LEU
1	E	721	LEU
1	E	806	PRO
1	E	851	PHE
1	E	865	PRO
1	E	896	VAL
1	E	916	PRO
1	E	979	PRO
1	E	1001	VAL
1	E	1045	THR
1	E	1055	PRO

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Mol	Chain	Res	Type
1	E	1097	THR
1	E	1131	ARG
1	E	1132	TRP
1	E	1134	LEU
1	E	1156	THR
1	E	1479	GLU
1	E	1545	ASN
1	E	1555	LEU
1	E	1680	ARG
1	E	1762	LEU
1	E	1837	GLN
1	E	1856	ASP
1	E	2066	LEU
1	E	2256	TYR
1	E	2919	ASP
1	E	3669	PHE
1	E	3708	THR
1	E	3806	ASN
1	E	3970	GLN
1	E	3973	CYS
1	E	3992	PHE
1	E	4006	ASP
1	E	4009	GLN
1	E	4072	VAL
1	E	4083	ASP
1	E	4106	PRO
1	E	4178	LEU
1	E	4180	ARG
1	E	4189	ARG
1	E	4686	LEU
1	E	4689	THR
1	E	4691	GLN
1	E	4897	ILE
1	E	4901	ILE
1	E	4902	GLU
1	E	4903	ASP
2	F	40	ARG
1	G	13	PHE
1	G	45	ARG
1	G	125	ARG
1	G	156	GLN
1	G	157	ARG

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Mol	Chain	Res	Type
1	G	161	GLU
1	G	164	ARG
1	G	167	ASP
1	G	189	LEU
1	G	190	GLN
1	G	218	HIS
1	G	334	MET
1	G	554	LEU
1	G	555	GLU
1	G	557	SER
1	G	595	ARG
1	G	596	ASN
1	G	597	HIS
1	G	598	LYS
1	G	680	THR
1	G	681	HIS
1	G	682	LEU
1	G	721	LEU
1	G	806	PRO
1	G	851	PHE
1	G	865	PRO
1	G	896	VAL
1	G	916	PRO
1	G	979	PRO
1	G	1001	VAL
1	G	1045	THR
1	G	1055	PRO
1	G	1097	THR
1	G	1131	ARG
1	G	1132	TRP
1	G	1134	LEU
1	G	1156	THR
1	G	1479	GLU
1	G	1545	ASN
1	G	1555	LEU
1	G	1680	ARG
1	G	1762	LEU
1	G	1837	GLN
1	G	1856	ASP
1	G	2066	LEU
1	G	2256	TYR
1	G	2919	ASP

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Mol	Chain	Res	Type
1	G	3669	PHE
1	G	3708	THR
1	G	3806	ASN
1	G	3970	GLN
1	G	3973	CYS
1	G	3992	PHE
1	G	4006	ASP
1	G	4009	GLN
1	G	4072	VAL
1	G	4083	ASP
1	G	4106	PRO
1	G	4178	LEU
1	G	4180	ARG
1	G	4189	ARG
1	G	4686	LEU
1	G	4689	THR
1	G	4691	GLN
1	G	4897	ILE
1	G	4901	ILE
1	G	4902	GLU
1	G	4903	ASP
2	H	40	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (221) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	57	ASN
1	A	105	HIS
1	A	111	HIS
1	A	113	HIS
1	A	156	GLN
1	A	181	HIS
1	A	190	GLN
1	A	273	HIS
1	A	278	GLN
1	A	405	HIS
1	A	465	GLN
1	A	479	GLN
1	A	533	ASN
1	A	582	HIS
1	A	593	HIS
1	A	596	ASN

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Mol	Chain	Res	Type
1	A	681	HIS
1	A	735	GLN
1	A	991	ASN
1	A	993	HIS
1	A	1127	HIS
1	A	1545	ASN
1	A	1598	GLN
1	A	1610	ASN
1	A	1631	GLN
1	A	1691	GLN
1	A	1693	GLN
1	A	1696	HIS
1	A	1719	HIS
1	A	1775	HIS
1	A	1837	GLN
1	A	1952	GLN
1	A	2100	HIS
1	A	2196	ASN
1	A	2245	GLN
1	A	2253	HIS
1	A	2773	ASN
1	A	2856	ASN
1	A	3647	HIS
1	A	3699	HIS
1	A	3813	GLN
1	A	3837	GLN
1	A	3909	ASN
1	A	3970	GLN
1	A	3977	GLN
1	A	3994	HIS
1	A	4020	GLN
1	A	4054	ASN
1	A	4153	HIS
1	A	4700	GLN
1	A	4949	GLN
1	A	4987	ASN
1	A	5031	GLN
2	B	25	HIS
2	B	87	HIS
1	C	57	ASN
1	C	105	HIS
1	C	111	HIS

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Mol	Chain	Res	Type
1	C	113	HIS
1	C	156	GLN
1	C	181	HIS
1	C	190	GLN
1	C	273	HIS
1	C	278	GLN
1	C	405	HIS
1	C	465	GLN
1	C	479	GLN
1	C	533	ASN
1	C	582	HIS
1	C	593	HIS
1	C	596	ASN
1	C	681	HIS
1	C	735	GLN
1	C	991	ASN
1	C	993	HIS
1	C	1127	HIS
1	C	1545	ASN
1	C	1598	GLN
1	C	1610	ASN
1	C	1631	GLN
1	C	1691	GLN
1	C	1693	GLN
1	C	1696	HIS
1	C	1719	HIS
1	C	1775	HIS
1	C	1837	GLN
1	C	1952	GLN
1	C	2100	HIS
1	C	2127	GLN
1	C	2196	ASN
1	C	2245	GLN
1	C	2253	HIS
1	C	2773	ASN
1	C	2856	ASN
1	C	3647	HIS
1	C	3699	HIS
1	C	3813	GLN
1	C	3837	GLN
1	C	3909	ASN
1	C	3970	GLN

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Mol	Chain	Res	Type
1	C	3977	GLN
1	C	3994	HIS
1	C	4020	GLN
1	C	4054	ASN
1	C	4153	HIS
1	C	4700	GLN
1	C	4949	GLN
1	C	4987	ASN
1	C	5031	GLN
2	D	25	HIS
2	D	87	HIS
1	E	57	ASN
1	E	105	HIS
1	E	111	HIS
1	E	113	HIS
1	E	156	GLN
1	E	181	HIS
1	E	190	GLN
1	E	273	HIS
1	E	278	GLN
1	E	405	HIS
1	E	465	GLN
1	E	479	GLN
1	E	533	ASN
1	E	582	HIS
1	E	593	HIS
1	E	596	ASN
1	E	681	HIS
1	E	735	GLN
1	E	991	ASN
1	E	993	HIS
1	E	1127	HIS
1	E	1545	ASN
1	E	1598	GLN
1	E	1610	ASN
1	E	1631	GLN
1	E	1691	GLN
1	E	1693	GLN
1	E	1696	HIS
1	E	1719	HIS
1	E	1775	HIS
1	E	1837	GLN

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Continued from previous page...

Mol	Chain	Res	Type
1	E	1952	GLN
1	E	2100	HIS
1	E	2196	ASN
1	E	2245	GLN
1	E	2253	HIS
1	E	2773	ASN
1	E	2856	ASN
1	E	3647	HIS
1	E	3699	HIS
1	E	3813	GLN
1	E	3837	GLN
1	E	3909	ASN
1	E	3970	GLN
1	E	3977	GLN
1	E	3994	HIS
1	E	4020	GLN
1	E	4054	ASN
1	E	4153	HIS
1	E	4700	GLN
1	E	4949	GLN
1	E	4987	ASN
1	E	5031	GLN
2	F	25	HIS
2	F	87	HIS
1	G	57	ASN
1	G	105	HIS
1	G	111	HIS
1	G	113	HIS
1	G	156	GLN
1	G	181	HIS
1	G	190	GLN
1	G	273	HIS
1	G	278	GLN
1	G	405	HIS
1	G	465	GLN
1	G	479	GLN
1	G	533	ASN
1	G	582	HIS
1	G	593	HIS
1	G	596	ASN
1	G	681	HIS
1	G	735	GLN

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Mol	Chain	Res	Type
1	G	991	ASN
1	G	993	HIS
1	G	1127	HIS
1	G	1545	ASN
1	G	1598	GLN
1	G	1610	ASN
1	G	1631	GLN
1	G	1691	GLN
1	G	1693	GLN
1	G	1696	HIS
1	G	1719	HIS
1	G	1775	HIS
1	G	1837	GLN
1	G	1952	GLN
1	G	2100	HIS
1	G	2196	ASN
1	G	2245	GLN
1	G	2253	HIS
1	G	2773	ASN
1	G	2856	ASN
1	G	3647	HIS
1	G	3699	HIS
1	G	3813	GLN
1	G	3837	GLN
1	G	3909	ASN
1	G	3970	GLN
1	G	3977	GLN
1	G	3994	HIS
1	G	4020	GLN
1	G	4054	ASN
1	G	4153	HIS
1	G	4700	GLN
1	G	4949	GLN
1	G	4987	ASN
1	G	5031	GLN
2	H	25	HIS
2	H	87	HIS

5.3.3 RNA ⓘ

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](#)

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	36
1	C	36
1	E	36
1	G	36

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	3572:UNK	C	3645:PRO	N	56.50
1	C	3572:UNK	C	3645:PRO	N	56.50
1	E	3572:UNK	C	3645:PRO	N	56.50
1	G	3572:UNK	C	3645:PRO	N	56.50

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	2712:UNK	C	2734:ASN	N	35.36
1	C	2712:UNK	C	2734:ASN	N	35.36
1	E	2712:UNK	C	2734:ASN	N	35.36
1	G	2712:UNK	C	2734:ASN	N	35.36
1	A	2940:GLY	C	3016:UNK	N	22.63
1	C	2940:GLY	C	3016:UNK	N	22.63
1	E	2940:GLY	C	3016:UNK	N	22.63
1	G	2940:GLY	C	3016:UNK	N	22.63
1	A	2562:ILE	C	2567:UNK	N	20.69
1	C	2562:ILE	C	2567:UNK	N	20.69
1	E	2562:ILE	C	2567:UNK	N	20.69
1	G	2562:ILE	C	2567:UNK	N	20.69
1	A	3470:UNK	C	3478:UNK	N	18.86
1	C	3470:UNK	C	3478:UNK	N	18.86
1	E	3470:UNK	C	3478:UNK	N	18.86
1	G	3470:UNK	C	3478:UNK	N	18.86
1	A	3090:UNK	C	3095:UNK	N	17.43
1	C	3090:UNK	C	3095:UNK	N	17.43
1	E	3090:UNK	C	3095:UNK	N	17.43
1	G	3090:UNK	C	3095:UNK	N	17.43
1	A	2660:UNK	C	2667:UNK	N	17.07
1	C	2660:UNK	C	2667:UNK	N	17.07
1	E	2660:UNK	C	2667:UNK	N	17.07
1	G	2660:UNK	C	2667:UNK	N	17.07
1	A	1976:ARG	C	2033:UNK	N	17.00
1	C	1976:ARG	C	2033:UNK	N	17.00
1	E	1976:ARG	C	2033:UNK	N	17.00
1	G	1976:ARG	C	2033:UNK	N	17.00
1	A	3178:UNK	C	3183:UNK	N	16.21
1	C	3178:UNK	C	3183:UNK	N	16.21
1	E	3178:UNK	C	3183:UNK	N	16.21
1	G	3178:UNK	C	3183:UNK	N	16.21
1	A	3116:UNK	C	3132:UNK	N	15.81
1	C	3116:UNK	C	3132:UNK	N	15.81
1	E	3116:UNK	C	3132:UNK	N	15.81
1	G	3116:UNK	C	3132:UNK	N	15.81
1	A	1497:UNK	C	1507:SER	N	14.64
1	C	1497:UNK	C	1507:SER	N	14.64
1	E	1497:UNK	C	1507:SER	N	14.64
1	G	1497:UNK	C	1507:SER	N	14.64
1	A	3152:UNK	C	3158:UNK	N	13.93
1	C	3152:UNK	C	3158:UNK	N	13.93

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E	3152:UNK	C	3158:UNK	N	13.93
1	G	3152:UNK	C	3158:UNK	N	13.93
1	A	2047:UNK	C	2057:THR	N	13.83
1	C	2047:UNK	C	2057:THR	N	13.83
1	E	2047:UNK	C	2057:THR	N	13.83
1	G	2047:UNK	C	2057:THR	N	13.83
1	A	2586:UNK	C	2591:UNK	N	13.69
1	C	2586:UNK	C	2591:UNK	N	13.69
1	E	2586:UNK	C	2591:UNK	N	13.69
1	G	2586:UNK	C	2591:UNK	N	13.69
1	A	3062:UNK	C	3068:UNK	N	13.56
1	C	3062:UNK	C	3068:UNK	N	13.56
1	E	3062:UNK	C	3068:UNK	N	13.56
1	G	3062:UNK	C	3068:UNK	N	13.56
1	A	3217:UNK	C	3273:UNK	N	12.43
1	C	3217:UNK	C	3273:UNK	N	12.43
1	E	3217:UNK	C	3273:UNK	N	12.43
1	G	3217:UNK	C	3273:UNK	N	12.43
1	A	3200:UNK	C	3204:UNK	N	12.30
1	C	3200:UNK	C	3204:UNK	N	12.30
1	E	3200:UNK	C	3204:UNK	N	12.30
1	G	3200:UNK	C	3204:UNK	N	12.30
1	A	2634:UNK	C	2638:UNK	N	11.92
1	C	2634:UNK	C	2638:UNK	N	11.92
1	E	2634:UNK	C	2638:UNK	N	11.92
1	G	2634:UNK	C	2638:UNK	N	11.92
1	A	3039:UNK	C	3043:UNK	N	11.43
1	C	3039:UNK	C	3043:UNK	N	11.43
1	E	3039:UNK	C	3043:UNK	N	11.43
1	G	3039:UNK	C	3043:UNK	N	11.43
1	A	3363:UNK	C	3367:UNK	N	11.25
1	C	3363:UNK	C	3367:UNK	N	11.25
1	E	3363:UNK	C	3367:UNK	N	11.25
1	G	3363:UNK	C	3367:UNK	N	11.25
1	A	2476:UNK	C	2494:PHE	N	11.12
1	C	2476:UNK	C	2494:PHE	N	11.12
1	E	2476:UNK	C	2494:PHE	N	11.12
1	G	2476:UNK	C	2494:PHE	N	11.12
1	A	3397:UNK	C	3402:UNK	N	10.60
1	C	3397:UNK	C	3402:UNK	N	10.60
1	E	3397:UNK	C	3402:UNK	N	10.60
1	G	3397:UNK	C	3402:UNK	N	10.60

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	3313:UNK	C	3317:UNK	N	10.53
1	C	3313:UNK	C	3317:UNK	N	10.53
1	E	3313:UNK	C	3317:UNK	N	10.53
1	G	3313:UNK	C	3317:UNK	N	10.53
1	A	3339:UNK	C	3346:UNK	N	9.83
1	C	3339:UNK	C	3346:UNK	N	9.83
1	E	3339:UNK	C	3346:UNK	N	9.83
1	G	3339:UNK	C	3346:UNK	N	9.83
1	A	3290:UNK	C	3294:UNK	N	9.75
1	C	3290:UNK	C	3294:UNK	N	9.75
1	E	3290:UNK	C	3294:UNK	N	9.75
1	G	3290:UNK	C	3294:UNK	N	9.75
1	A	2686:UNK	C	2691:UNK	N	9.35
1	C	2686:UNK	C	2691:UNK	N	9.35
1	E	2686:UNK	C	2691:UNK	N	9.35
1	G	2686:UNK	C	2691:UNK	N	9.35
1	A	3504:UNK	C	3513:UNK	N	9.25
1	C	3504:UNK	C	3513:UNK	N	9.25
1	E	3504:UNK	C	3513:UNK	N	9.25
1	G	3504:UNK	C	3513:UNK	N	9.25
1	A	3527:UNK	C	3537:UNK	N	8.73
1	C	3527:UNK	C	3537:UNK	N	8.73
1	E	3527:UNK	C	3537:UNK	N	8.73
1	G	3527:UNK	C	3537:UNK	N	8.73
1	A	3544:UNK	C	3549:UNK	N	8.50
1	C	3544:UNK	C	3549:UNK	N	8.50
1	E	3544:UNK	C	3549:UNK	N	8.50
1	G	3544:UNK	C	3549:UNK	N	8.50
1	A	2609:UNK	C	2615:UNK	N	8.30
1	C	2609:UNK	C	2615:UNK	N	8.30
1	E	2609:UNK	C	2615:UNK	N	8.30
1	G	2609:UNK	C	2615:UNK	N	8.30
1	A	3435:UNK	C	3436:UNK	N	7.45
1	C	3435:UNK	C	3436:UNK	N	7.45
1	E	3435:UNK	C	3436:UNK	N	7.45
1	G	3435:UNK	C	3436:UNK	N	7.45
1	A	2460:LEU	C	2463:UNK	N	7.12
1	C	2460:LEU	C	2463:UNK	N	7.12
1	E	2460:LEU	C	2463:UNK	N	7.12
1	G	2460:LEU	C	2463:UNK	N	7.12
1	A	3491:UNK	C	3494:UNK	N	6.52
1	C	3491:UNK	C	3494:UNK	N	6.52

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E	3491:UNK	C	3494:UNK	N	6.52
1	G	3491:UNK	C	3494:UNK	N	6.52
1	A	1491:ASN	C	1493:UNK	N	5.91
1	C	1491:ASN	C	1493:UNK	N	5.91
1	E	1491:ASN	C	1493:UNK	N	5.91
1	G	1491:ASN	C	1493:UNK	N	5.91
1	A	3424:UNK	C	3427:UNK	N	4.48
1	C	3424:UNK	C	3427:UNK	N	4.48
1	E	3424:UNK	C	3427:UNK	N	4.48
1	G	3424:UNK	C	3427:UNK	N	4.48
1	A	3454:UNK	C	3457:UNK	N	3.19
1	C	3454:UNK	C	3457:UNK	N	3.19
1	E	3454:UNK	C	3457:UNK	N	3.19
1	G	3454:UNK	C	3457:UNK	N	3.19

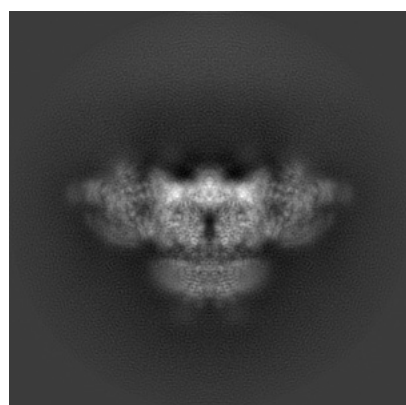
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2807. These allow visual inspection of the internal detail of the map and identification of artifacts.

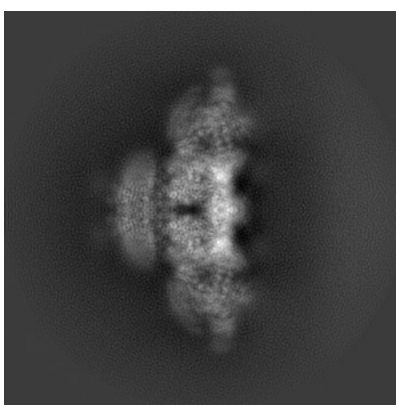
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

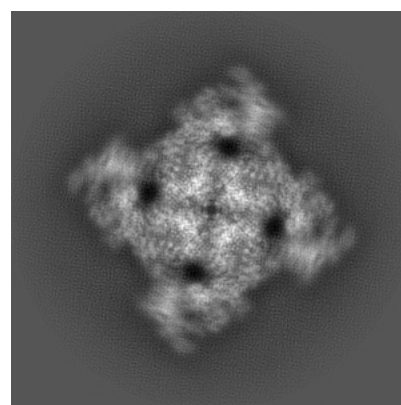
6.1.1 Primary map



X



Y

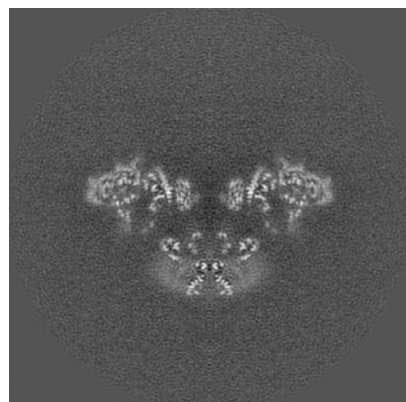


Z

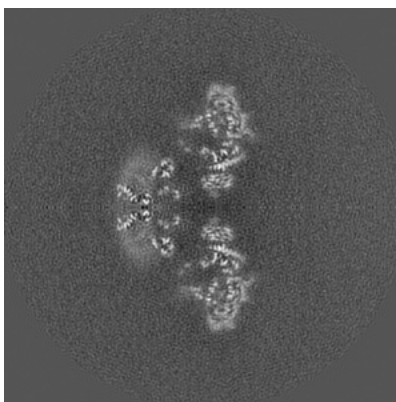
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

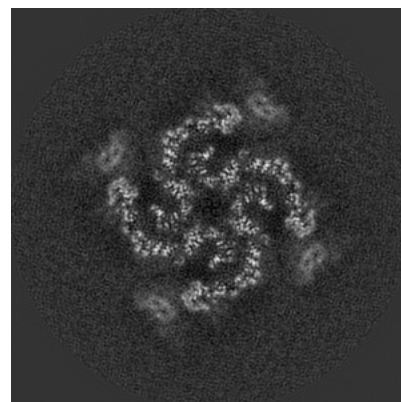
6.2.1 Primary map



X Index: 180



Y Index: 180

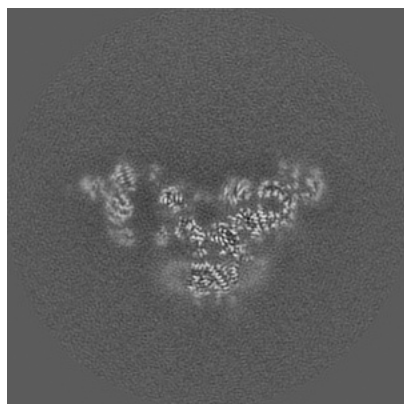


Z Index: 180

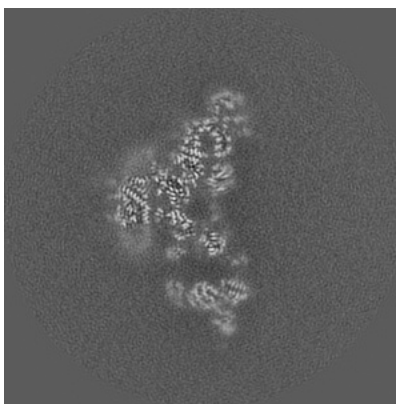
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

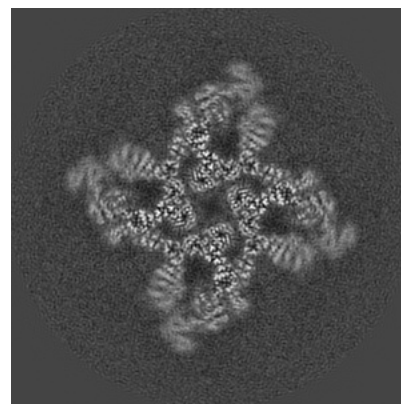
6.3.1 Primary map



X Index: 169



Y Index: 191

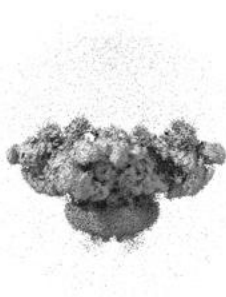


Z Index: 193

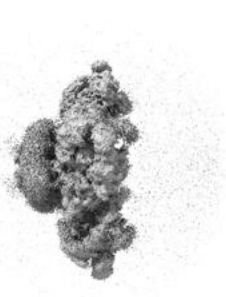
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

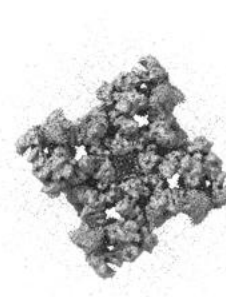
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.04. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

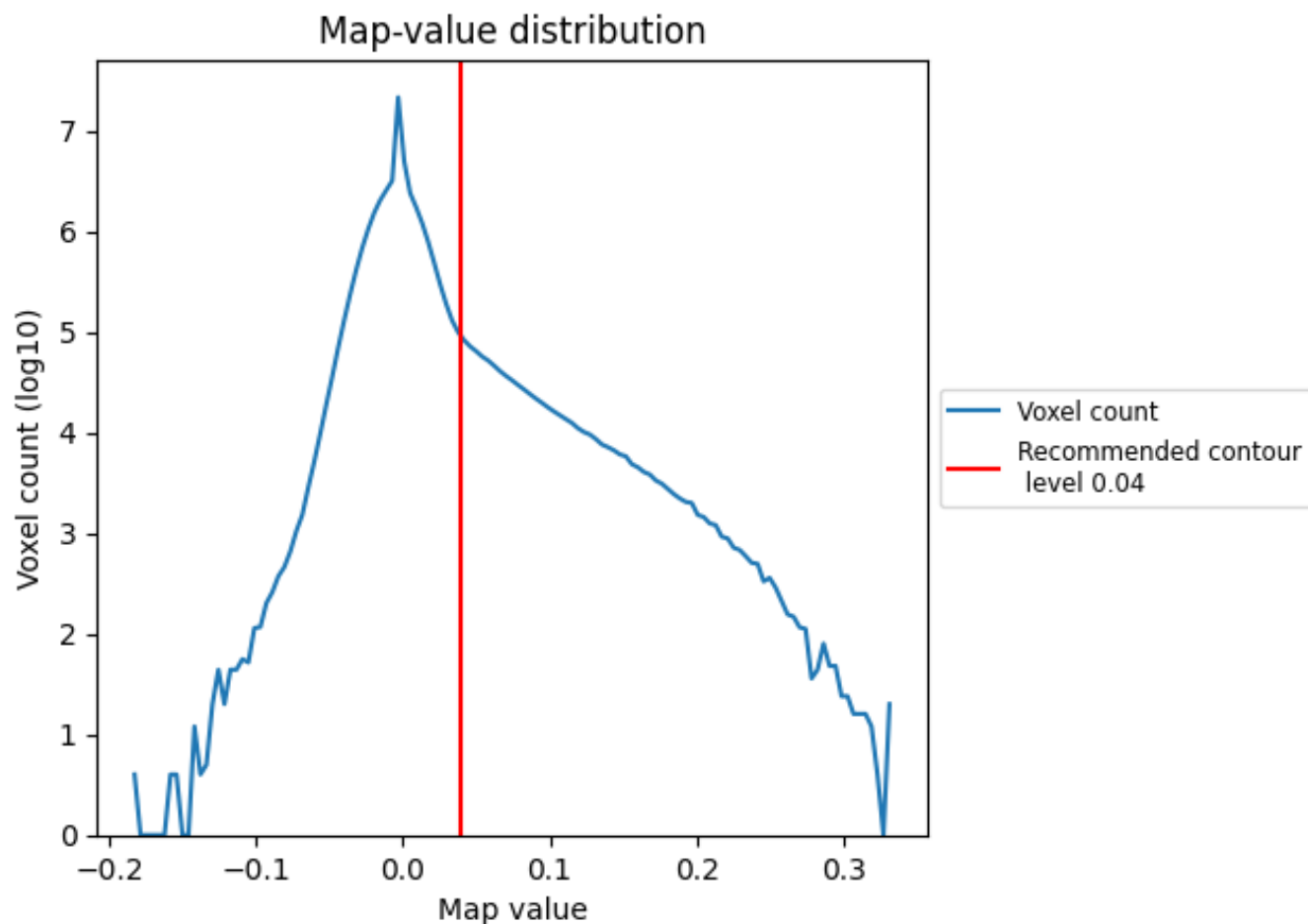
6.5 Mask visualisation

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

7 Map analysis [i](#)

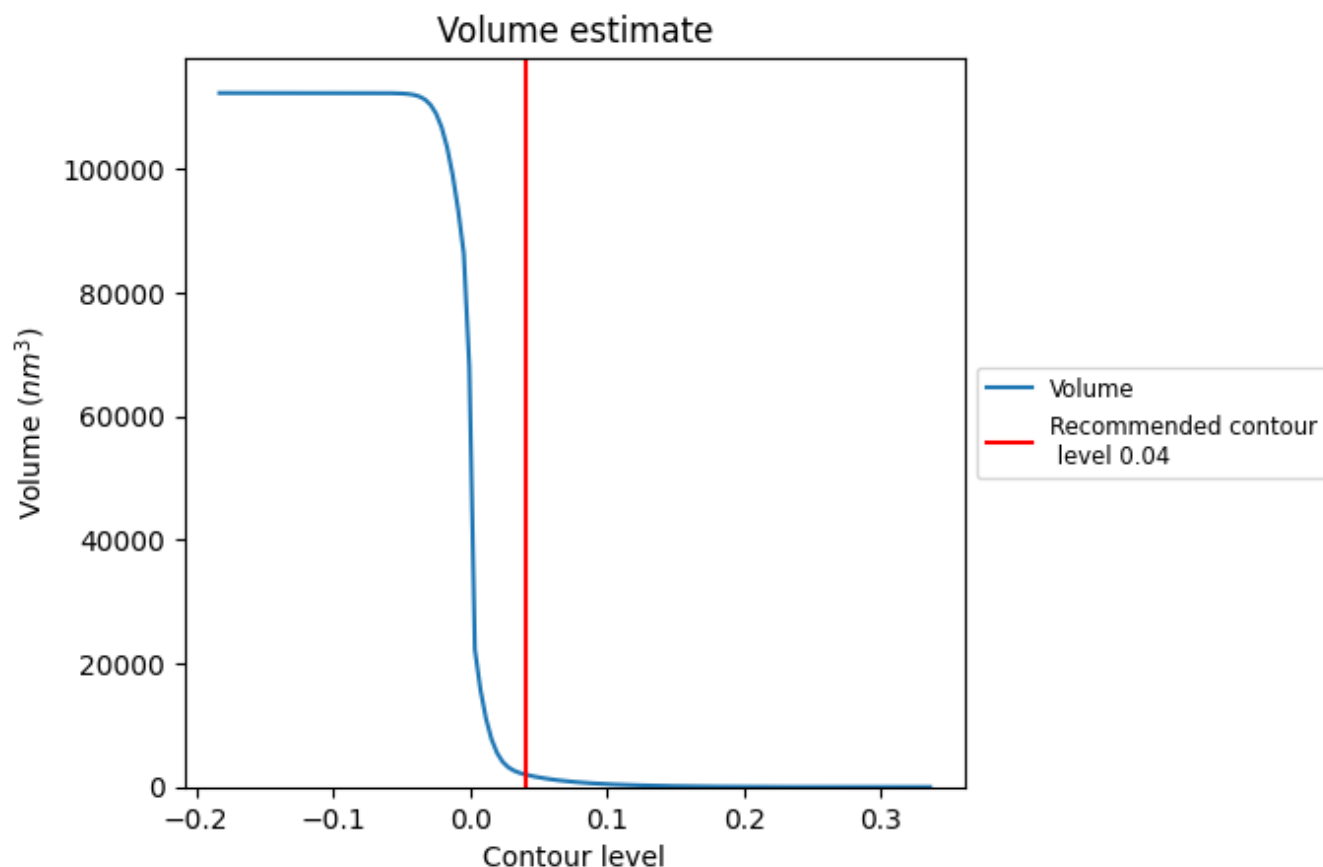
This section contains the results of statistical analysis of the map.

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.

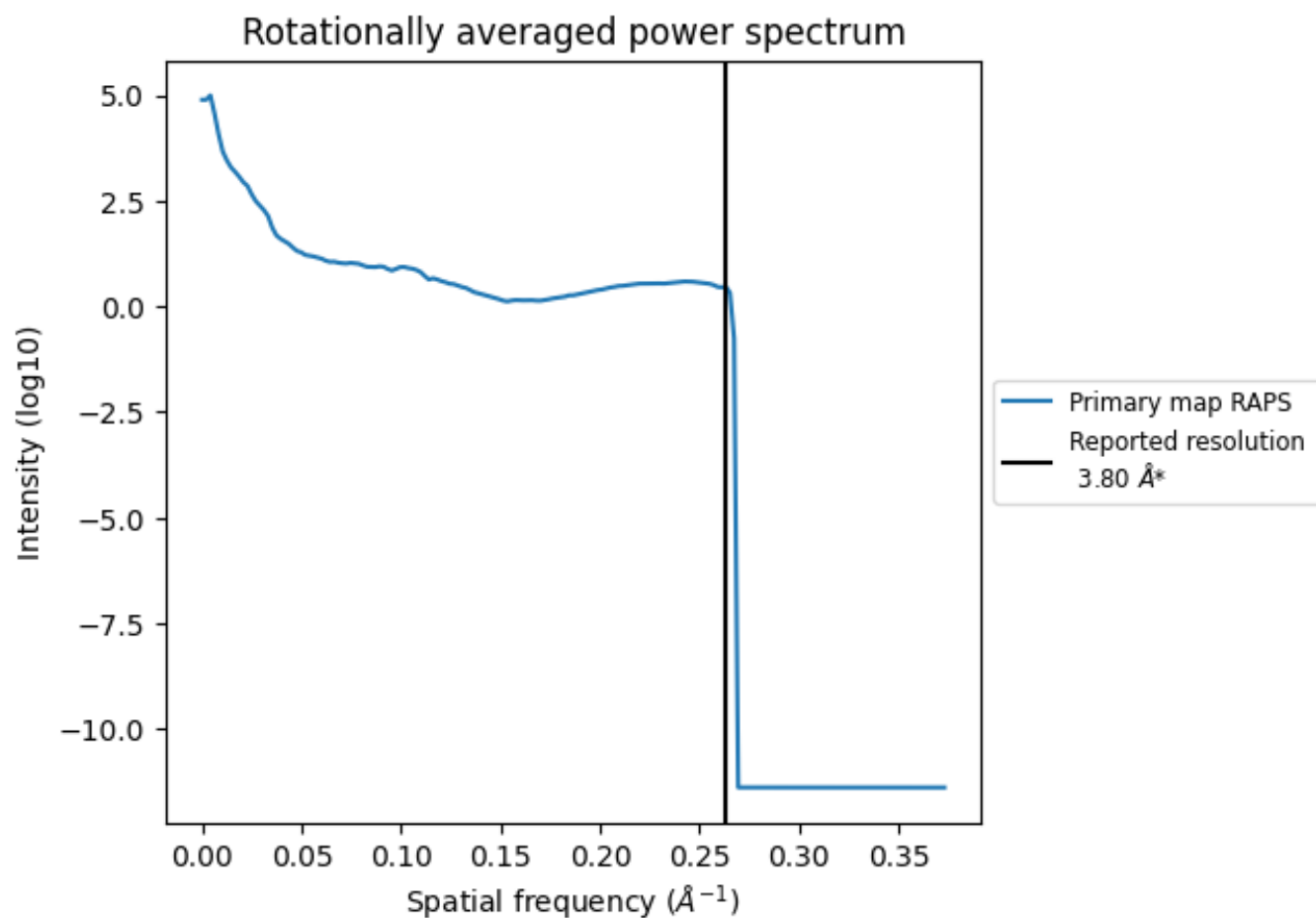
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2026 nm³; this corresponds to an approximate mass of 1830 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.263 Å⁻¹

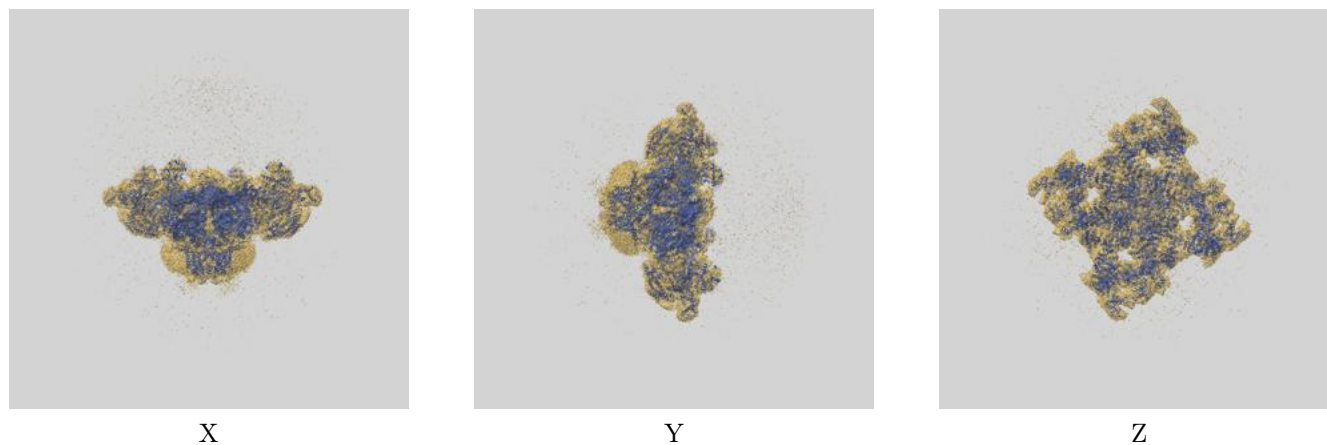
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

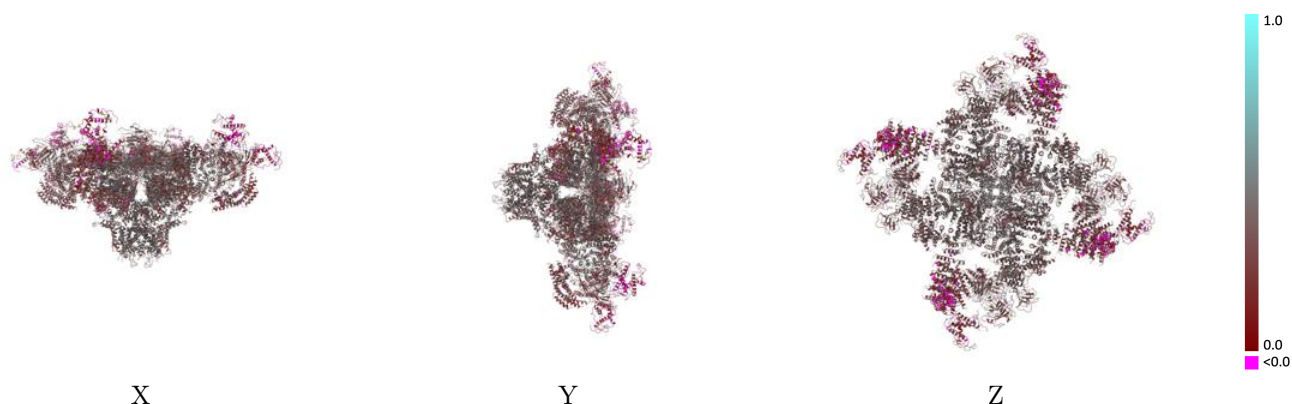
This section contains information regarding the fit between EMDB map EMD-2807 and PDB model 3J8H. Per-residue inclusion information can be found in [section 3](#) on [page 5](#).

9.1 Map-model overlay [i](#)



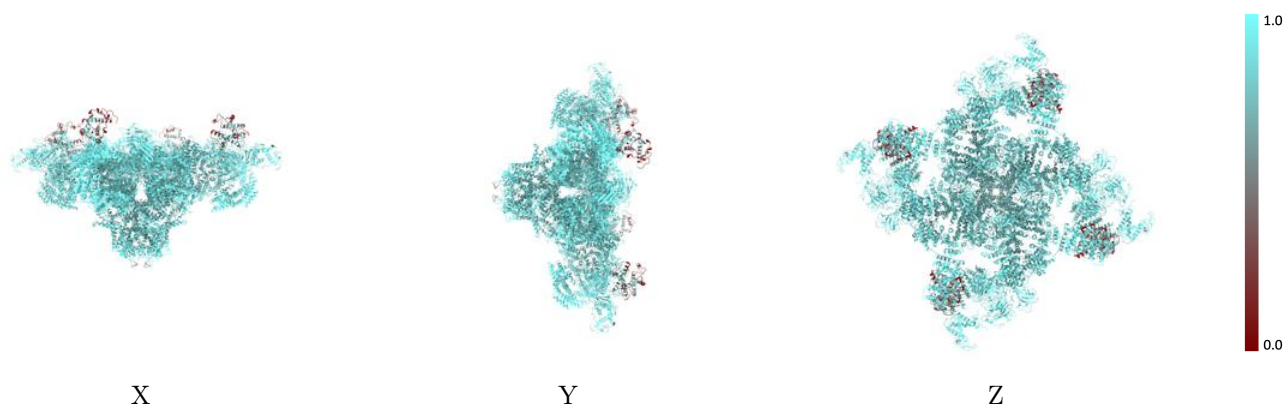
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



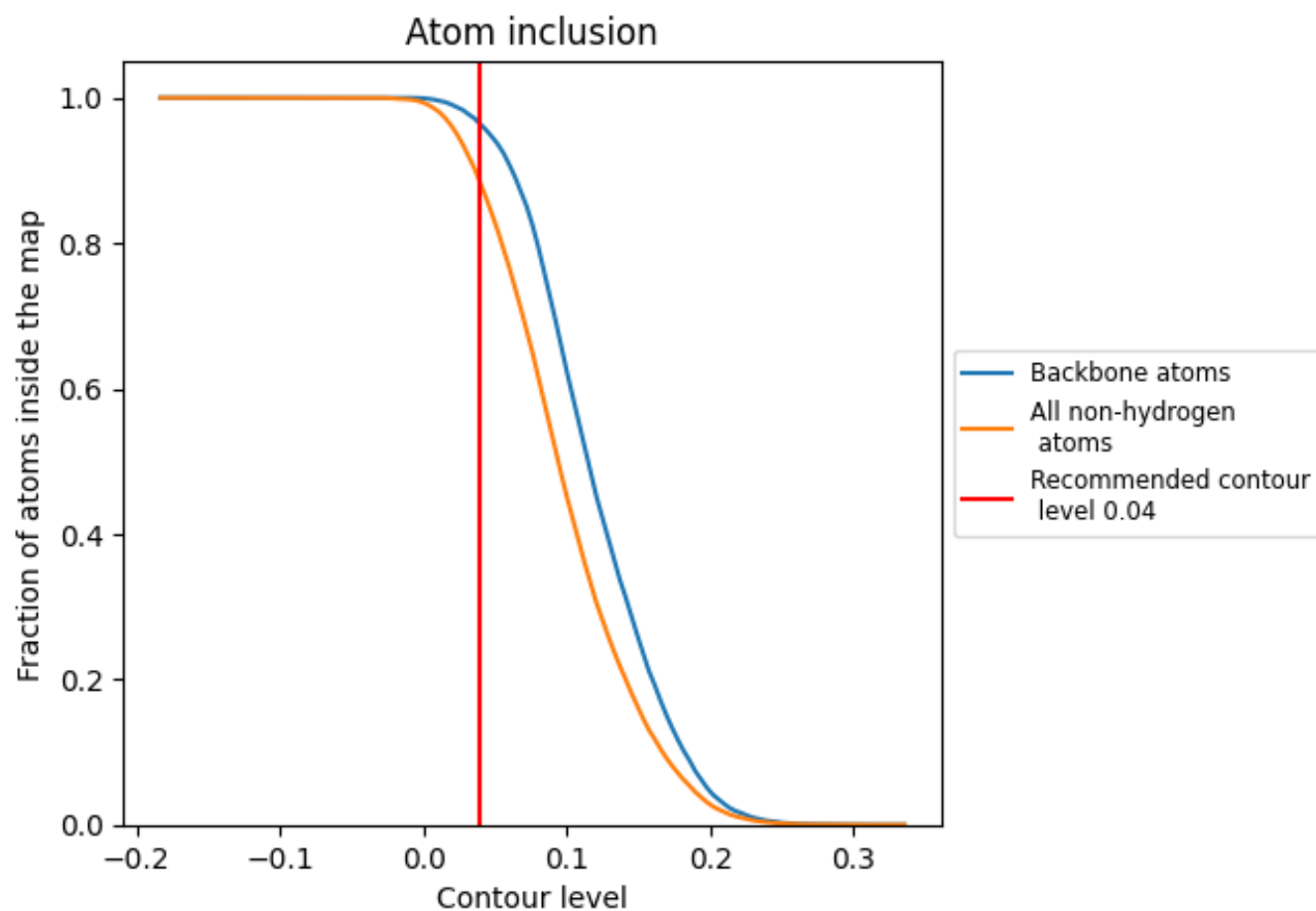
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.04).

9.4 Atom inclusion [i](#)



At the recommended contour level, 96% of all backbone atoms, 88% 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 (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div><div></div></div> 0.8824	<div><div></div></div> 0.3380
A	<div><div></div></div> 0.8813	<div><div></div></div> 0.3380
B	<div><div></div></div> 0.9191	<div><div></div></div> 0.3580
C	<div><div></div></div> 0.8813	<div><div></div></div> 0.3380
D	<div><div></div></div> 0.9191	<div><div></div></div> 0.3570
E	<div><div></div></div> 0.8813	<div><div></div></div> 0.3380
F	<div><div></div></div> 0.9191	<div><div></div></div> 0.3540
G	<div><div></div></div> 0.8813	<div><div></div></div> 0.3380
H	<div><div></div></div> 0.9191	<div><div></div></div> 0.3590

1.0

0.0

<0.0