



## wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 02:01 PM BST

PDB ID : 2VDC  
EMDB ID: : EMD-1440  
Title : THE 9.5 Å RESOLUTION STRUCTURE OF GLUTAMATE SYNTHASE FROM CRYO-ELECTRON MICROSCOPY AND ITS OLIGOMERIZATION BEHAVIOR IN SOLUTION: FUNCTIONAL IMPLICATIONS.  
Authors : Cotteville, M.; Larquet, E.; Jonic, S.; Petoukhov, M.V.; Caprini, G.; Paravisi, S.; Svergun, D.I.; Vanoni, M.A.; Boisset, N.  
Deposited on : 2007-10-04  
Resolution : 9.50 Å(reported)

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.  
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>

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MolProbity : 4.02b-467  
Mogul : 1.7.1 (RC1), CSD as537be (2016)  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk27241

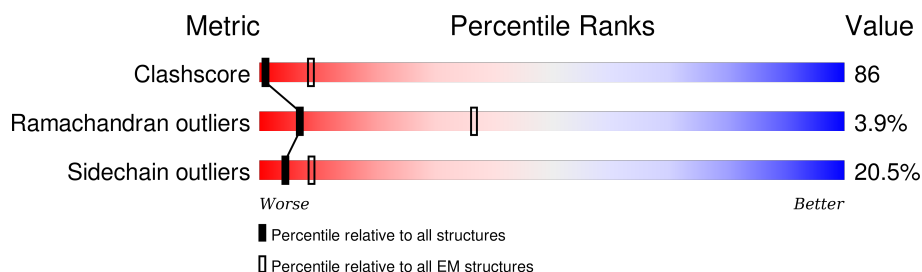
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 9.50 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.




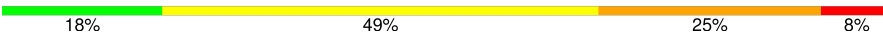

Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ .

Mol	Chain	Length	Quality of chain
1	A	1472	26% 52% 20% .
1	B	1472	30% 49% 17% .
1	C	1472	27% 51% 20% .
1	D	1472	30% 49% 17% .
1	E	1472	26% 51% 20% .
1	F	1472	30% 49% 17% .
2	G	456	18% 49% 25% 8%
2	H	456	17% 49% 25% 8%
2	I	456	17% 49% 25% 8%

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Mol	Chain	Length	Quality of chain
2	J	456	
2	K	456	
2	L	456	

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
6	F3S	B	2476	-	-	X	-
6	F3S	D	2476	-	-	X	-
6	F3S	E	2476	-	-	X	-
6	F3S	F	2476	-	-	X	-
7	SF4	G	483	-	-	X	-
7	SF4	H	483	-	-	X	-
7	SF4	I	483	-	-	X	-
7	SF4	J	483	-	-	X	-
7	SF4	K	483	-	-	X	-
7	SF4	L	483	-	-	X	-

## 2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 89598 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.

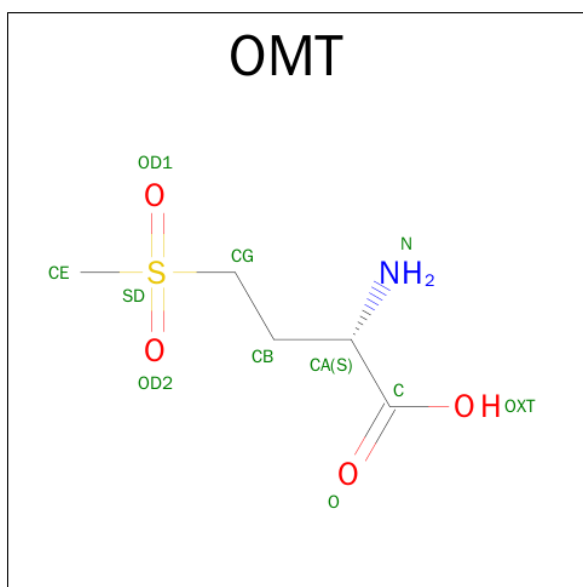
- Molecule 1 is a protein called GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		
1	B	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		
1	C	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		
1	D	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		
1	E	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		
1	F	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		

- Molecule 2 is a protein called GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN.

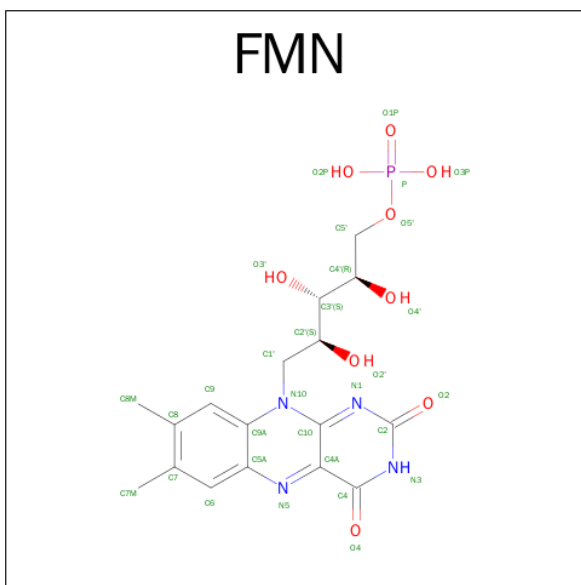
Mol	Chain	Residues	Atoms					AltConf	Trace
2	G	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		
2	H	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		
2	I	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		
2	J	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		
2	K	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		
2	L	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		

- Molecule 3 is S-DIOXYMETHIONINE (three-letter code: OMT) (formula: C<sub>5</sub>H<sub>11</sub>NO<sub>4</sub>S).



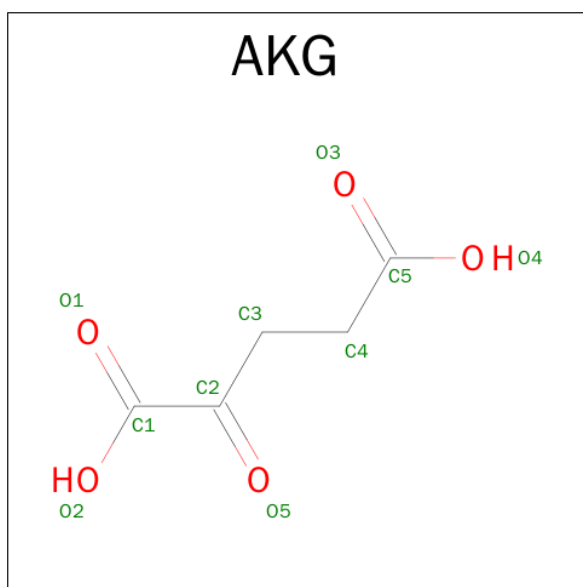
Mol	Chain	Residues	Atoms					AltConf
3	A	1	Total	C	N	O	S	0
			11	5	1	4	1	
3	B	1	Total	C	N	O	S	0
			11	5	1	4	1	
3	C	1	Total	C	N	O	S	0
			11	5	1	4	1	
3	D	1	Total	C	N	O	S	0
			11	5	1	4	1	
3	E	1	Total	C	N	O	S	0
			11	5	1	4	1	
3	F	1	Total	C	N	O	S	0
			11	5	1	4	1	

- Molecule 4 is FLAVIN MONONUCLEOTIDE (three-letter code: FMN) (formula: C<sub>17</sub>H<sub>21</sub>N<sub>4</sub>O<sub>9</sub>P).



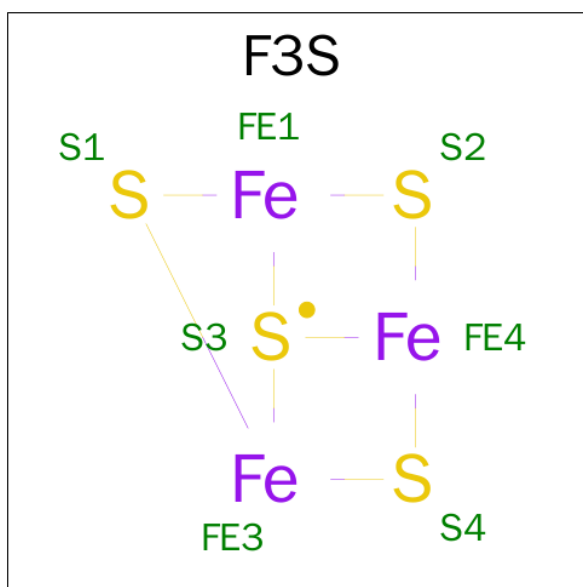
Mol	Chain	Residues	Atoms					AltConf
4	A	1	Total	C	N	O	P	0
			31	17	4	9	1	
4	B	1	Total	C	N	O	P	0
			31	17	4	9	1	
4	C	1	Total	C	N	O	P	0
			31	17	4	9	1	
4	D	1	Total	C	N	O	P	0
			31	17	4	9	1	
4	E	1	Total	C	N	O	P	0
			31	17	4	9	1	
4	F	1	Total	C	N	O	P	0
			31	17	4	9	1	

- Molecule 5 is 2-OXOGLUTARIC ACID (three-letter code: AKG) (formula: C<sub>5</sub>H<sub>6</sub>O<sub>5</sub>).



Mol	Chain	Residues	Atoms			AltConf
5	A	1	Total	C	O	0
			10	5	5	
5	B	1	Total	C	O	0
			10	5	5	
5	C	1	Total	C	O	0
			10	5	5	
5	D	1	Total	C	O	0
			10	5	5	
5	E	1	Total	C	O	0
			10	5	5	
5	F	1	Total	C	O	0
			10	5	5	

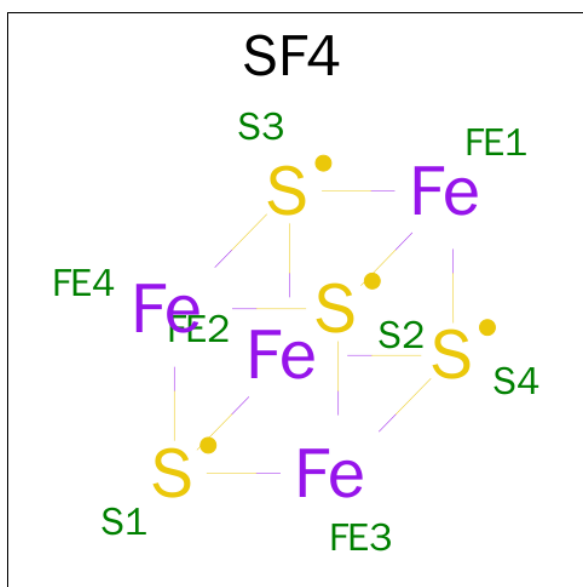
- Molecule 6 is FE3-S4 CLUSTER (three-letter code: F3S) (formula: Fe<sub>3</sub>S<sub>4</sub>).



Mol	Chain	Residues	Atoms			AltConf
6	A	1	Total	Fe	S	0
			7	3	4	
6	B	1	Total	Fe	S	0
			7	3	4	
6	C	1	Total	Fe	S	0
			7	3	4	
6	D	1	Total	Fe	S	0
			7	3	4	
6	E	1	Total	Fe	S	0
			7	3	4	
6	F	1	Total	Fe	S	0
			7	3	4	

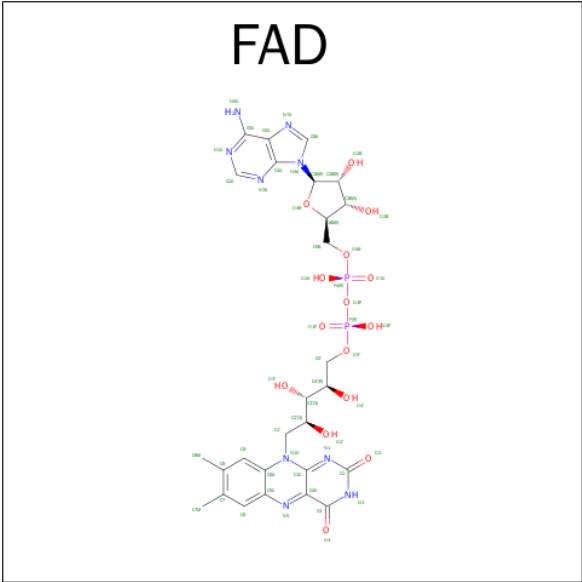
- Molecule 7 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe<sub>4</sub>S<sub>4</sub>).





Mol	Chain	Residues	Atoms			AltConf
7	G	1	Total	Fe	S	0
			16	8	8	
7	G	1	Total	Fe	S	0
			16	8	8	
7	H	1	Total	Fe	S	0
			16	8	8	
7	H	1	Total	Fe	S	0
			16	8	8	
7	I	1	Total	Fe	S	0
			16	8	8	
7	I	1	Total	Fe	S	0
			16	8	8	
7	J	1	Total	Fe	S	0
			16	8	8	
7	J	1	Total	Fe	S	0
			16	8	8	
7	K	1	Total	Fe	S	0
			16	8	8	
7	K	1	Total	Fe	S	0
			16	8	8	
7	L	1	Total	Fe	S	0
			16	8	8	
7	L	1	Total	Fe	S	0
			16	8	8	

- Molecule 8 is FLAVIN-ADENINE DINUCLEOTIDE (three-letter code: FAD) (formula:  $C_{27}H_{33}N_9O_{15}P_2$ ).

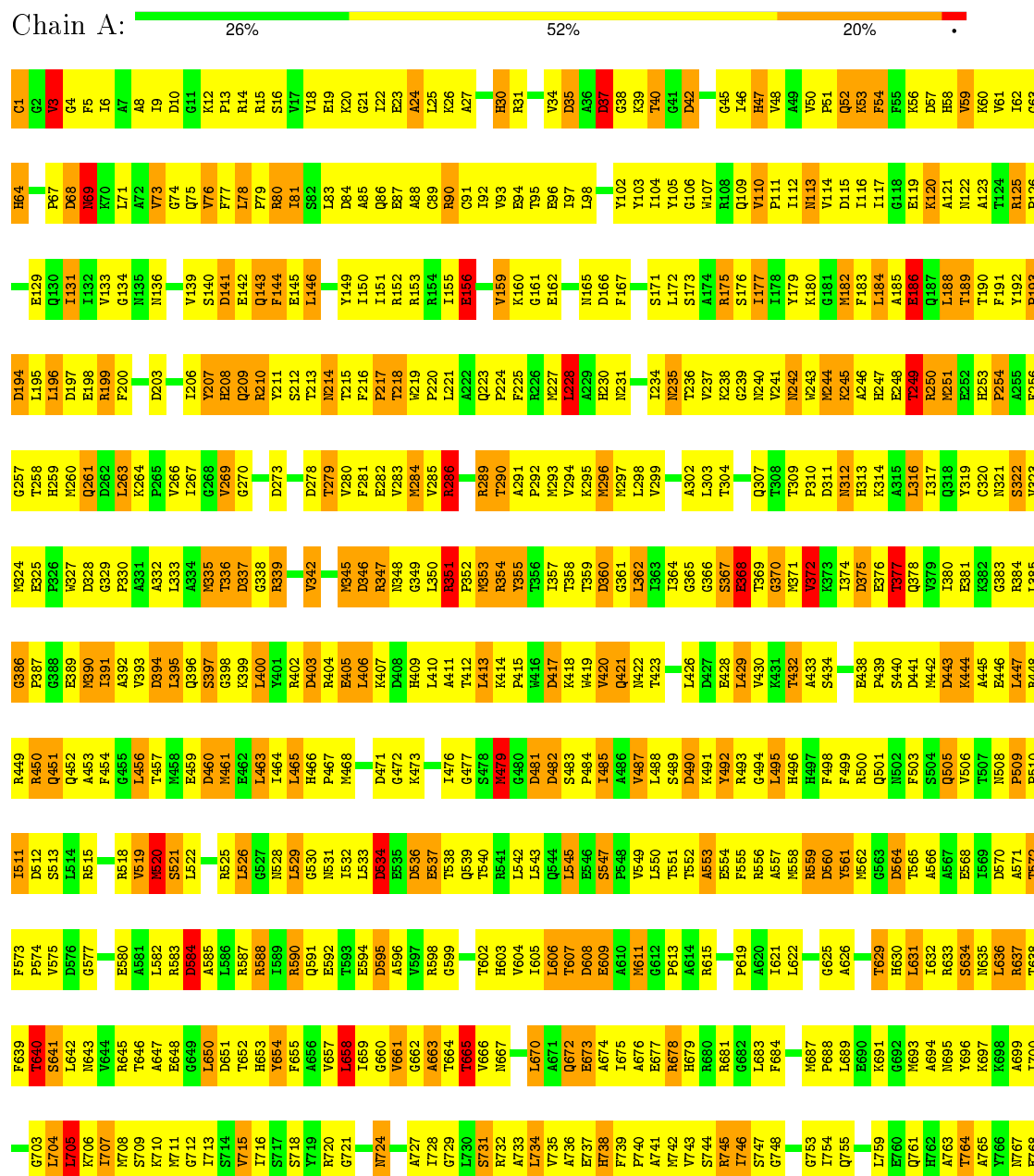


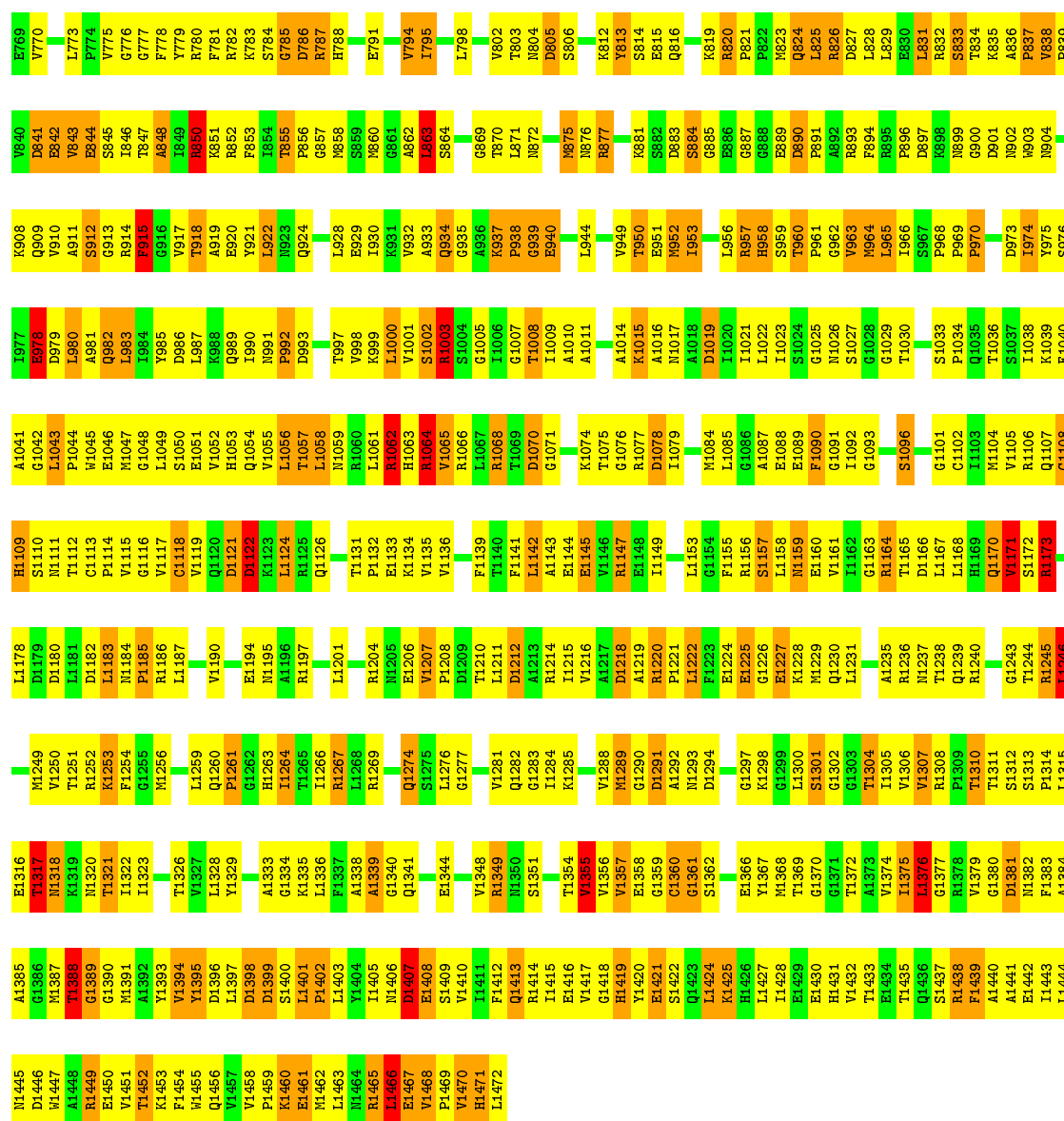
Mol	Chain	Residues	Atoms					AltConf
8	G	1	Total	C	N	O	P	0
			53	27	9	15	2	
8	H	1	Total	C	N	O	P	0
			53	27	9	15	2	
8	I	1	Total	C	N	O	P	0
			53	27	9	15	2	
8	J	1	Total	C	N	O	P	0
			53	27	9	15	2	
8	K	1	Total	C	N	O	P	0
			53	27	9	15	2	
8	L	1	Total	C	N	O	P	0
			53	27	9	15	2	

### 3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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.

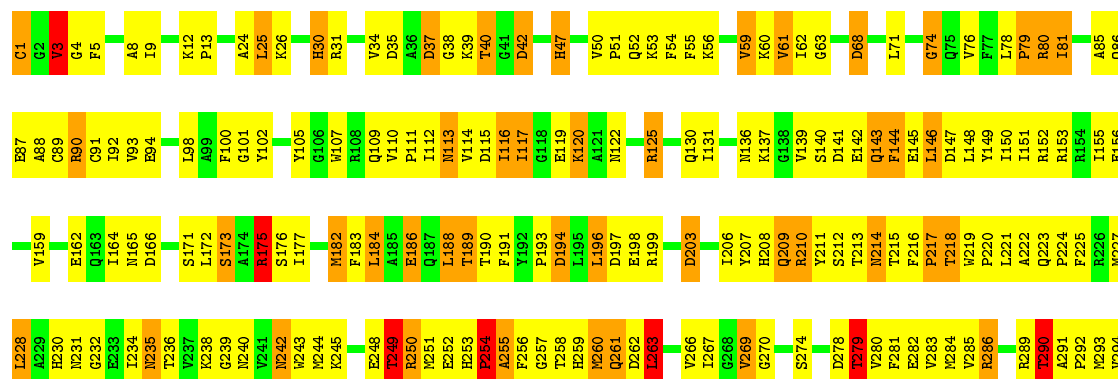
#### • Molecule 1: GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN



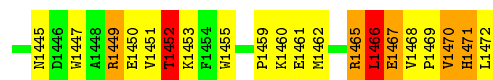


### • Molecule 1: GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN

Chain B: 30% 49% 17%

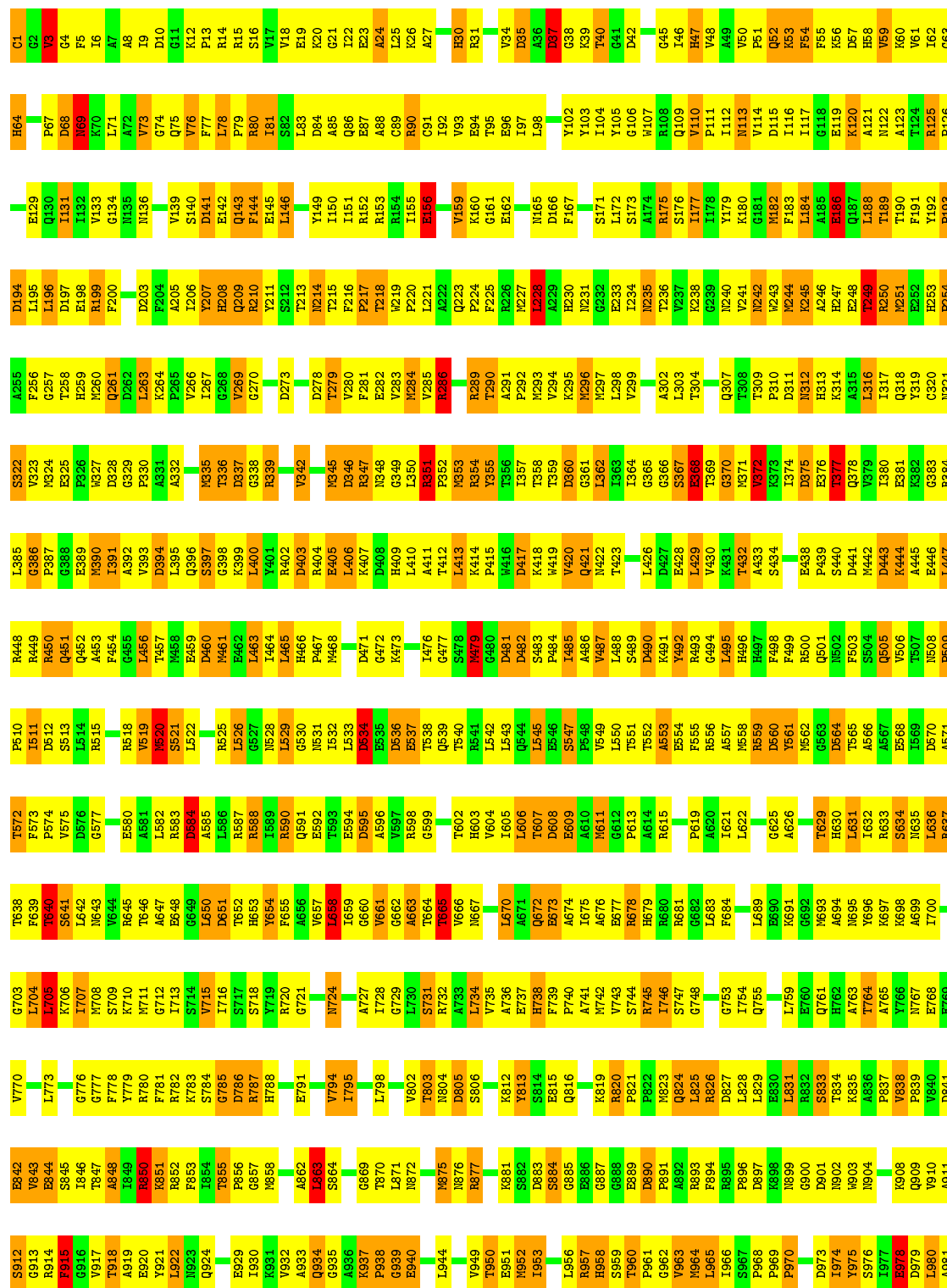


G1380	D1381	M1382	F1383	A1384	M1387	T1388	G1389	G1390	Y1393	Y1394	Y1395	D1396	L1397	D1398	I1399	G1400	L1401	P1402	L1403	Y1404	L1405	M1406	D1407	E1408	V1409	L1410	L1411	F1412	G1413	R1414	V1417	G1418	H1419	Y1420	E1421	Q1423	L1424	K1425	H1426	L1427	I1428	E1429	E1430	V1431	V1432	T1433	E1434	Q1435	L1436	R1437	L1438	F1439	A1440	A1441	E1442																																																																																																																																																																																																																																																																																																																																																																																																																						
I1081	L1082	R1147	A1217	D1218	A1219	R1220	G1221	L1222	G1226	E1227	M1228	L1229	T1230	E1231	L1232	A1233	Y1233	I1232	L1233	G1234	M1235	T1236	V1237	G1243	T1244	R1245	L1246	F1247	A1248	L1249	M1250	L1251	T1252	L1253	K1254	L1255	L1256	L1257	L1258	L1259	Q1260	G1261	H1262	I1263	L1264	L1265	L1266	L1267	L1268	L1269	Q1274	A1278	F1279	A1280	G1281	L1282	E1283	Y1284	M1285	L1286	L1287	L1288	L1289	L1290	L1291	L1292	L1293	L1294																																																																																																																																																																																																																																																																																																																																																																																																									
L1083	L1084	L1085	E1086	L1087	L1088	L1089	L1090	L1091	L1092	L1093	L1094	L1095	L1096	L1097	C1102	L1103	M1104	L1105	L1106	L1107	L1108	L1109	L1110	L1111	L1112	L1113	L1114	L1115	L1116	L1117	L1118	L1119	L1120	L1121	L1122	L1123	L1124	L1125	L1126	L1127	L1128	L1129	L1130	L1131	L1132	L1133	L1134	L1135	L1136	L1137	L1138	L1139	L1140	L1141	L1142	L1143	L1144	L1145	L1146																																																																																																																																																																																																																																																																																																																																																																																																																		
R1147	A1151	G1152	L1153	G1154	F1155	L1156	S1157	L1158	M1159	E1160	V1161	L1162	G1163	R1164	T1165	D1166	L1167	L1168	H1169	Q1170	V1171	S1172	R1173	E1174	L1175	H1176	L1177	L1178	D1179	L1180	L1181	D1182	L1183	L1184	P1185	R1186	L1187	V1190	D1191	P1192	G1193	E1194	M1195	L1201	R1204	M1205	E1206	V1207	P1208	L1209	T1210	G1211	L1212	L1213	L1214	L1215	L1216																																																																																																																																																																																																																																																																																																																																																																																																																				
A1217	D1218	A1219	R1220	L1221	G1222	E1223	M1224	L1225	M1226	L1227	M1228	L1229	T1230	E1231	L1232	A1233	Y1233	I1232	L1233	G1234	M1235	T1236	V1237	G1243	T1244	R1245	L1246	F1247	A1248	L1249	M1250	L1251	T1252	L1253	K1254	L1255	L1256	L1257	L1258	L1259	Q1260	G1261	H1262	I1263	L1264	L1265	L1266	L1267	L1268	L1269	Q1274	A1278	F1279	A1280	G1281	L1282	E1283	Y1284	M1285	L1286	L1287	L1288	L1289	L1290	L1291	L1292	L1293	L1294																																																																																																																																																																																																																																																																																																																																																																																																									
Y1295	R1298	G1299	S1301	F1302	R1303	P1304	T1305	L1306	E1307	L1308	L1309	L1310	L1311	E1312	T1313	L1314	L1315	L1316	L1317	L1318	L1319	L1320	L1321	L1322	L1323	L1324	L1325	L1326	L1327	L1328	L1329	L1330	L1331	L1332	L1333	L1334	L1335	L1336	L1337	L1338	L1339	L1340	L1341	L1342	L1343	L1344	L1345	L1346	L1347	L1348	L1349	L1350	L1351	L1352	L1353	L1354	L1355	L1356	L1357	L1358	L1359	L1360	E1361	L1362	L1363	L1364	L1365	L1366	L1367	L1368	L1369	L1370	L1371	L1372	L1373	L1374	L1375	L1376	L1377	L1378	L1379	L1380	L1381	L1382	L1383	L1384	L1385	L1386	L1387	L1388	L1389	L1390	L1391	L1392	L1393	L1394	L1395	L1396	L1397	L1398	L1399	L1400	L1401	L1402	L1403	L1404	L1405	L1406	L1407	L1408	L1409	L1410	L1411	L1412	L1413	L1414	L1415	L1416	L1417	L1418	L1419	L1420	L1421	L1422	L1423	L1424	L1425	L1426	L1427	L1428	L1429	L1430	L1431	L1432	L1433	L1434	L1435	L1436	L1437	L1438	L1439	L1440	L1441	L1442																																																																																																																																																																																																																																																																																																																													
L1443	L1444	L1445	L1446	L1447	L1448	L1449	L1450	L1451	L1452	L1453	L1454	L1455	L1456	L1457	L1458	L1459	L1460	L1461	L1462	L1463	L1464	L1465	L1466	L1467	L1468	L1469	L1470	L1471	L1472	L1473	L1474	L1475	L1476	L1477	L1478	L1479	L1480	L1481	L1482	L1483	L1484	L1485	L1486	L1487	L1488	L1489	L1490	L1491	L1492	L1493	L1494	L1495	L1496	L1497	L1498	L1499	L1500	L1501	L1502	L1503	L1504	L1505	L1506	L1507	L1508	L1509	L1510	L1511	L1512	L1513	L1514	L1515	L1516	L1517	L1518	L1519	L1520	L1521	L1522	L1523	L1524	L1525	L1526	L1527	L1528	L1529	L1530	L1531	L1532	L1533	L1534	L1535	L1536	L1537	L1538	L1539	L1540	L1541	L1542	L1543	L1544	L1545	L1546	L1547	L1548	L1549	L1550	L1551	L1552	L1553	L1554	L1555	L1556	L1557	L1558	L1559	L1560	L1561	L1562	L1563	L1564	L1565	L1566	L1567	L1568	L1569	L1570	L1571	L1572	L1573	L1574	L1575	L1576	L1577	L1578	L1579	L1580	L1581	L1582	L1583	L1584	L1585	L1586	L1587	L1588	L1589	L1590	L1591	L1592	L1593	L1594	L1595	L1596	L1597	L1598	L1599	L1600	L1601	L1602	L1603	L1604	L1605	L1606	L1607	L1608	L1609	L1610	L1611	L1612	L1613	L1614	L1615	L1616	L1617	L1618	L1619	L1620	L1621	L1622	L1623	L1624	L1625	L1626	L1627	L1628	L1629	L1630	L1631	L1632	L1633	L1634	L1635	L1636	L1637	L1638	L1639	L1640	L1641	L1642	L1643	L1644	L1645	L1646	L1647	L1648	L1649	L1650	L1651	L1652	L1653	L1654	L1655	L1656	L1657	L1658	L1659	L1660	L1661	L1662	L1663	L1664	L1665	L1666	L1667	L1668	L1669	L1670	L1671	L1672	L1673	L1674	L1675	L1676	L1677	L1678	L1679	L1680	L1681	L1682	L1683	L1684	L1685	L1686	L1687	L1688	L1689	L1690	L1691	L1692	L1693	L1694	L1695	L1696	L1697	L1698	L1699	L1700	L1701	L1702	L1703	L1704	L1705	L1706	L1707	L1708	L1709	L1710	L1711	L1712	L1713	L1714	L1715	L1716	L1717	L1718	L1719	L1720	L1721	L1722	L1723	L1724	L1725	L1726	L1727	L1728	L1729	L1730	L1731	L1732	L1733	L1734	L1735	L1736	L1737	L1738	L1739	L1740	L1741	L1742	L1743	L1744	L1745	L1746	L1747	L1748	L1749	L1750	L1751	L1752	L1753	L1754																																																																																																																																																						
L1755	L1756	L1757	L1758	L1759	L1760	L1761	L1762	L1763	L1764	L1765	L1766	L1767	L1768	L1769	L1770	L1771	L1772	L1773	L1774	L1775	L1776	L1777	L1778	L1779	L1780	L1781	L1782	L1783	L1784	L1785	L1786	L1787	L1788	L1789	L1790	L1791	L1792	L1793	L1794	L1795	L1796	L1797	L1798	L1799	L1800	L1801	L1802	L1803	L1804	L1805	L1806	L1807	L1808	L1809	L1810	L1811	L1812	L1813	L1814	L1815	L1816	L1817	L1818	L1819	L1820	L1821	L1822	L1823	L1824	L1825	L1826	L1827	L1828	L1829	L1830	L1831	L1832	L1833	L1834	L1835	L1836	L1837	L1838	L1839	L1840	L1841	L1842	L1843	L1844	L1845	L1846	L1847	L1848	L1849	L1850	L1851	L1852	L1853	L1854	L1855	L1856	L1857	L1858	L1859	L1860	L1861	L1862	L1863	L1864	L1865	L1866	L1867	L1868	L1869	L1870	L1871	L1872	L1873	L1874	L1875	L1876	L1877	L1878	L1879	L1880	L1881	L1882	L1883	L1884	L1885	L1886	L1887	L1888	L1889	L1890	L1891	L1892	L1893	L1894	L1895	L1896	L1897	L1898	L1899	L1900	L1901	L1902	L1903	L1904	L1905	L1906	L1907	L1908	L1909	L1910	L1911	L1912	L1913	L1914	L1915	L1916	L1917	L1918	L1919	L1920	L1921	L1922	L1923	L1924	L1925	L1926	L1927	L1928	L1929	L1930	L1931	L1932	L1933	L1934	L1935	L1936	L1937	L1938	L1939	L1940	L1941	L1942	L1943	L1944	L1945	L1946	L1947	L1948	L1949	L1950	L1951	L1952	L1953	L1954	L1955	L1956	L1957	L1958	L1959	L1960	L1961	L1962	L1963	L1964	L1965	L1966	L1967	L1968	L1969	L1970	L1971	L1972	L1973	L1974	L1975	L1976	L1977	L1978	L1979	L1980	L1981	L1982	L1983	L1984	L1985	L1986	L1987	L1988	L1989	L1990	L1991	L1992	L1993	L1994	L1995	L1996	L1997	L1998	L1999	L2000	L2001	L2002	L2003	L2004	L2005	L2006	L2007	L2008	L2009	L2010	L2011	L2012	L2013	L2014	L2015	L2016	L2017	L2018	L2019	L2020	L2021	L2022	L2023	L2024	L2025	L2026	L2027	L2028	L2029	L2030	L2031	L2032	L2033	L2034	L2035	L2036	L2037	L2038	L2039	L2040	L2041	L2042	L2043	L2044	L2045	L2046	L2047	L2048	L2049	L2050	L2051	L2052	L2053	L2054	L2055	L2056	L2057	L2058	L2059	L2060	L2061	L2062	L2063	L2064	L2065	L2066	L2067	L2068	L2069	L2070	L2071	L2072	L2073	L2074	L2075	L2076	L2077	L2078	L2079	L2080	L2081	L2082	L2083	L2084	L2085	L2086	L2087	L2088	L2089	L2090	L2091	L2092	L2093	L2094	L2095	L2096	L2097	L2098	L2099	L2100	L2101	L2102	L2103	L2104	L2105	L2106	L2107	L2108	L2109	L2110	L2111	L2112	L2113	L2114	L2115	L2116	L2117	L2118	L2119	L2120	L2121	L2122	L2123	L2124	L2125	L2126	L2127	L2128	L2129	L2130	L2131	L2132	L2133	L2134	L2135	L2136	L2137	L2138	L2139	L2140	L2141	L2142	L2143	L2144	L2145	L2146	L2147	L2148	L2149	L2150	L2151	L2152	L2153	L2154	L2155	L2156	L2157	L2158	L2159	L2160	L2161	L2162	L2163	L2164	L2165	L2166	L2167	L2168	L2169	L2170	L2171	L2172	L2173	L2174	L2175	L2176	L2177	L2178	L2179	L2180	L2181	L2182	L2183	L2184	L2185	L2186	L2187	L2188	L2189	L2190	L2191	L2192	L2193	L2194	L2195	L2196	L2197	L2198	L2199	L2200	L2201	L2202	L2203	L2204	L2205	L2206	L2207	L2208	L2209	L2210	L2211	L2212	L2213	L2214	L2215	L2216
L2217	L2218	L2219	L2220	L2221	L2222	L2223	L2224	L2225	L2226	L2227	L2228	L2229	L2230	L2231	L2232	L2233	L2234	L2235	L2236	L2237	L2238	L2239	L2240	L2241	L2242	L2243	L2244	L2245	L2246	L2247	L2248	L2249	L2250	L2251	L2252	L2253	L2254	L2255	L2256	L2257	L2258	L2259	L2260	L2261	L2262	L2263	L2264	L2265	L2266	L2267	L2268	L2269	L2270	L2271	L2272	L2273	L2274	L2275	L2276	L2277	L2278	L2279	L2280	L2281	L2282	L2283	L2284	L2285	L2286	L2287	L2288	L2289	L2290	L2291	L2292	L2293	L2294	L2295	L2296	L2297	L2298	L2299	L2300	L2301	L2302	L2303	L2304	L2305	L2306	L2307	L2308	L2309	L2310	L2311	L2312	L2313	L2314	L2315	L2316	L2317	L2318	L2319	L2320	L2321	L2322	L2323	L2324	L2325	L2326	L2327	L2328	L2329	L2330	L2331	L2332	L2333	L2334	L2335	L2336	L2337	L2338	L2339																																																																																																																																																																																																																																																																																																																																																			



• Molecule 1: GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN

Chain C: 27% 51% 20%

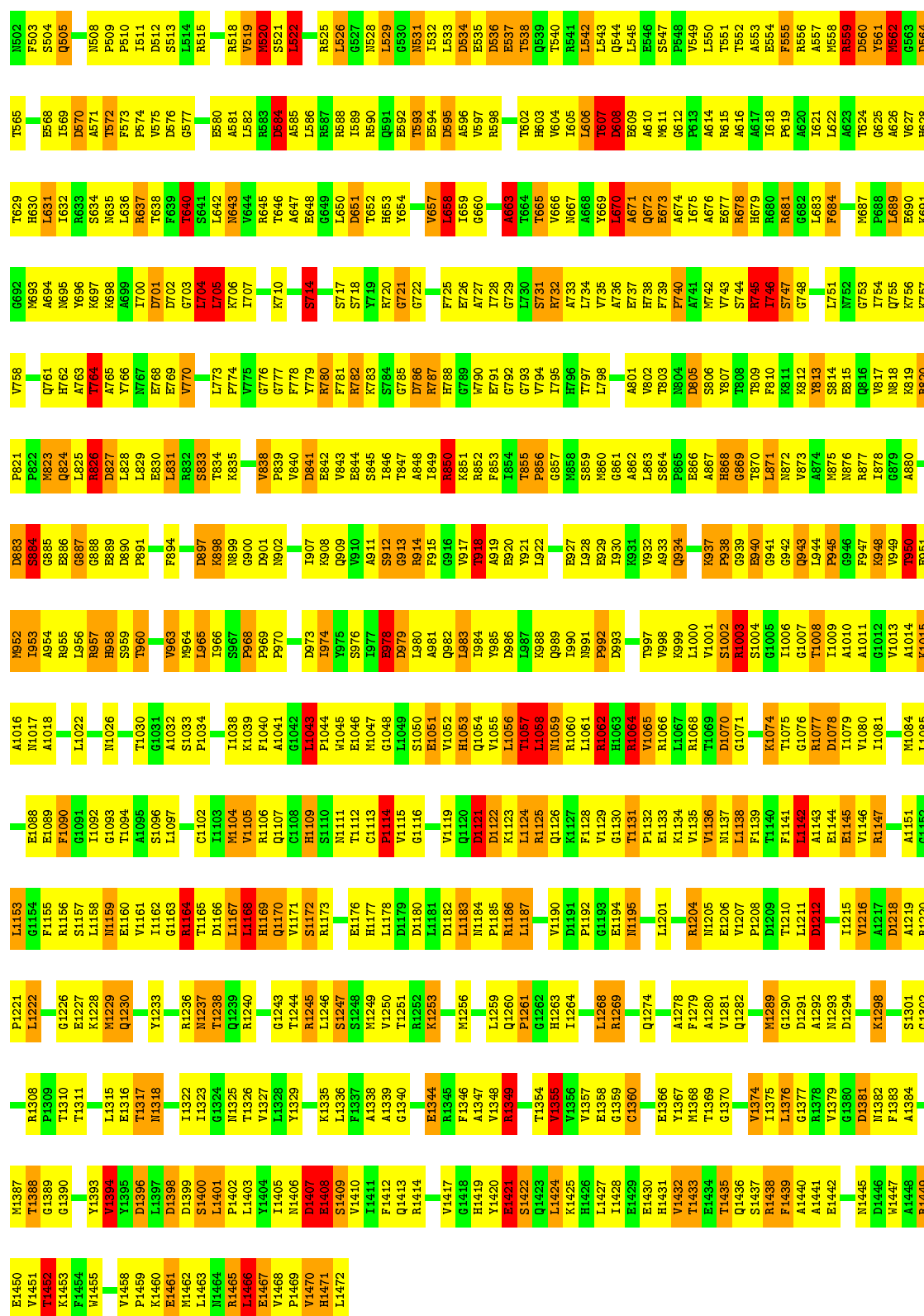


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• Molecule 1: GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN

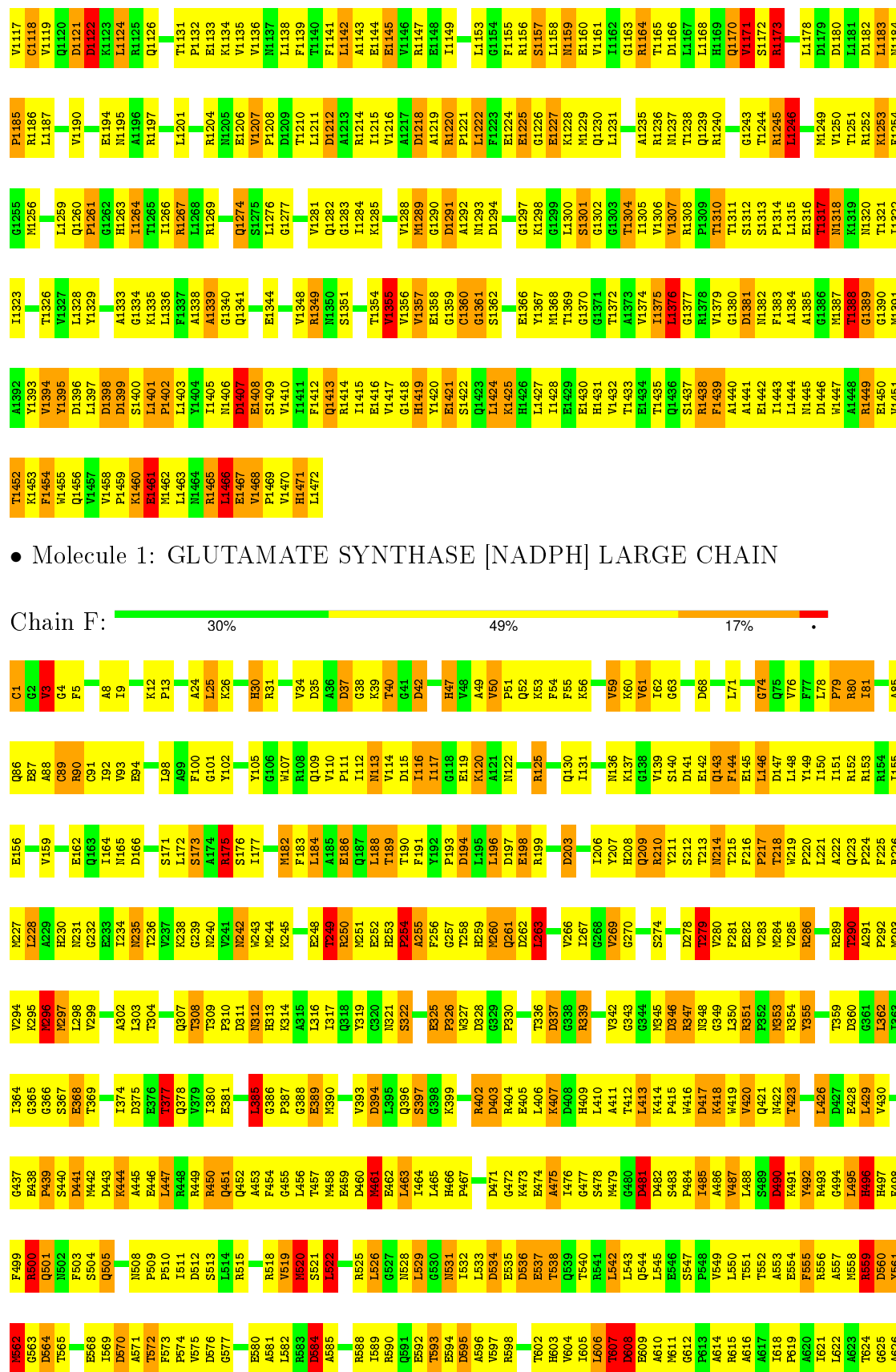
Chain D:  30% 49% 17%

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S367	E368	T369		L374	D375	E376	L377	V378	V379	L380	E381	L385	G386	P387	G388	E389	M390	V393	D394	M394	L395	Q396	S397	G398	K399		D402	D403	R404	E405	L406	K407	D408	H409	L410	A411	L412	L413	K414	P415	D416	D417	K418	W419	V420	Q421	W422	T423		L426	D427	E428	L429	V430		G437	E438	R500	P501
R296		V299			A302	L303	T304	Q307	T308	T309	P310	D311	N312	H313	K314	K315	L316	I317	Q318	Y319	C320	N321	S322		E325	P326	K327	D328	G329	P330		D337	G338	R339		V342	G343	G344	G345	D346	R347	N348	G349	R350	P351	P352	N353	R354	Y355		T359	D360	G361	L362	L363	I364	G365	V366	
A229	N231	G232	E233	I234	N235	T236	V237	K238	G239	N240	Y241	N242	N243	N244	K245		E248	T249	N250	E251	E252	H253	P254	A255	F256	G257	T258	H259	N260	Q261	D262	L263		V266	L267	G268	V269	G270		S274		D278	T279	V280	F281	E282	V283	N284	V285	R286		R289	G290	G291	G292	G293	G294	G295	
V159		E162	Q163	N164	N165	D166		S171	L172	S173	A174	R175	I177				M182	F183	L184	A185	E186	Q187	L188	T189	F190	G191	Y192	P193	D194	L195	L196	D197	E198	R199		D203		Y207	H208	Q209	R210	Y211	S212	T213	T215	F216	V217	T218	W219	P220	L221	A222	Q223	P224	F225	R226	I227	L228	
E87	A88	C89	R90	C91	I92	V93	E94		L98	A99	F100	G101	Y102		Y105	G106	W107	R108	Q109	V110	P111	I112	N113	V114	D115	I116	I117	G118	E119	K120	A121	N122		R125		Q130	F131	M136	K137	G138	V139	S140	D141	E142	Q143	F144	E145	L146	D147	L148	Y149	I150	I151	R152	R153	R154	E155	C156	
C1	G2	V3	G4	F5	A8	I9		K12	P13		A24	L25	K26		H30	R31		V34	D35	A36	D37	G38	K39	T40	G41	D42		H47		V50	P51	Q52	K53	F54	F55	K56		V59	K60	V61	I62	G63		D68		L71		G74	Q75	V76	F77	L78	P79	R80	I81	A85	Q86		





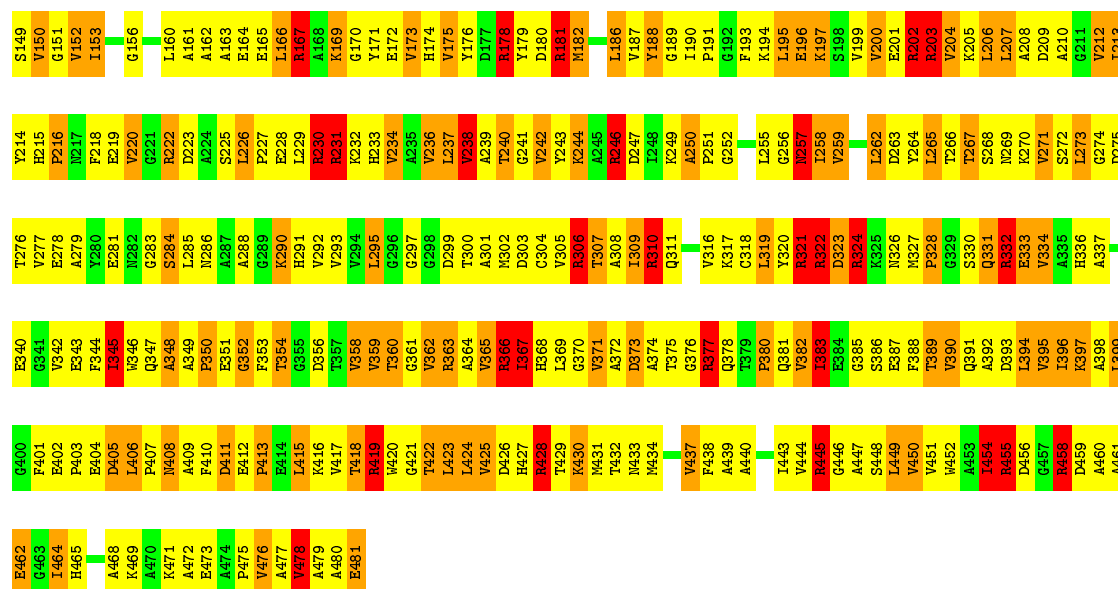
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L1049	L984	S912	E842		L704	L842	B576	L514	Q452	E389	F326	H259	D197	I131	D68	G2
S1050	G985	G913	E843	L773	L705	V644	G577	R515	A853	M390	K327	Q260	E199	I132	R69	G3
E1051	D986	R914	E844		L706	V645			F454	I391	D328	Q261	R199	V133	K70	G4
H1052	L987	F915	S845	G776	I707	R845	E580	R518	G455	A392	G329	D262	F200	G134	L71	F5
H1053	G988	G916	T846	G777	I708	T846	A581	R519	G456	V393	P330	L263		H135	A72	I6
Q1054	G989	V917	T847	F778	S709	A847	L582	R520	T457	D394	A381	K264	D203	H136	V73	A7
V1055	I990	T918	D848	F779	K710	D848	A583	S521	F458	L395	A382	V266			G74	A8
L1056	I991	R780	R851	R781	M711	G849	R584	L522	F459	Q396		V266	T206	V139	G75	I9
T1057	P992	R782	R852	R783	I713	L850	A585		D460	S397	M335	H207	Y207	S140	F76	D10
L1058	P993	R783	R853	R784	I714	L851	L586	R525	M461	G398	T336	G268	R208	D141	F77	
M1059	D993	L922	R854	S784	G715	T852	R587	L526	E462	K399	D337	V269	Q209	E142	L78	R14
G1060		L923	R855	S785	G716	H853	R588	G527	L463	L400	G338	G270	Y211	Q143	P79	R15
L1061		L924	T854	G785	I716	T854	R589	N528	I464	Y401	K339			F144	R80	S16
G1062			T855	D786	S717	A856	R590	N529		R402	V342	D273	S212	L146	I81	V17
R1063		E929	T856	R787	S718	A857	Q591	G530	R466	D403			T213	E145	S82	V18
R1064	V1001	I930	G857	R788	S719	V857	E592	N531	H466	R404	M345	T278	R214	L147	L83	E19
V1065	S1002	K931	G858	G789	R720	L858	T593	I532	M467	E405	D346	V280	F216	Y149	D84	K20
R1066	R1003	V932	L859	H790	G721	G660	E594	L533	D471	L406	R347	F281	P217	I151	A85	Q21
L1067	S1004	A933	G661	E791		V661	D595	D534		K407	D348	F282	T218	I152	Q86	T22
G1068	G1005	Q934	G662		A727	G662	V597	D535	G472	D408	K348	V283	W219	R153	E87	E23
T1069	G1006	A936	G663		R728	A663	R598	D536	K473	H409	G349	V284	P220	R154	A88	A24
D1070	G1007	A937	T664		G729	T664	G599	T538	I476	A411	R351	V285	L221	R154	C89	L25
G1071			T665			T665		Q539	G477	T412	P352		A222	I155	R90	K26
			V666		L736	V666	T602	T540	S478	L413	K353	R289	Q223	E156	C91	A27
			V667		S731	M667	H603	R541	Q479	K414	K354	R289	P224	V159	I92	R50
			L670		R732		V604	L542	R491	P415	V355	T290	F225	K160	E94	R31
			A671		A733		L605	L543	D481	W416	T356	A291	R226	G161	T95	
			L671		L734		L606	Q544	D482	D417	K357	P292	M227	E162	E96	V34
			G672		V735		T607	L545	S483	K418	T358	M293	L228	G162	I97	D35
			E673		A736		D608	E546	P484	W419	T359	V294	A229	S173	K36	
			A674		E737		E609	S548	I485	V420	D360	K295	R230	A174	D37	
			A675		H738		A610	P548	A486	Q422	L362	M296	M231	R175	Y102	G38
			A676		A739		H611	L550	V487	L488	L363	L298	G232	R176	K39	K39
			R677		P740		G612	T551	D488	T423	L364	V298	T234	S171	I104	T40
			H679		A741		P613	T552	S489		G365		M235	G172	G41	
			R680		H742		H614		D490	L426	G366	A302	T236	S173	D42	
			R681		V743		R615	A553	K491	D427	G367	L303	V237	A175	W107	
			R682		S744		P619	E554	R492	E428	S367	T304	G239	R177	Y105	G45
			G683		R745		A620	R555	R493	L429	E368		K238	S176	I109	I46
			L683		I746		L621	R556	Q494	V430	T369		G239	I177	V110	H47
			F684		S747		L622	A557	L495	K431	G370	Q307	N240	G178	P111	V48
					G748		L622	M558	H496	T432	K371	T308	V241	Y179	I112	L49
			M687				G625	R559	H497	A432	K372	T309	N242	K180	I113	V50
			P688		G753		A626	D560	F498	A433	K373	P310	W243	G181	P51	
			L689		I754		G626	Y561	F499	D442	K374	D311	M244	M182	V114	Q52
			E690		Q755		R630	M562	R500	H443	D375	N312	K245	F183	D115	Q52
			K691				T629	G563	Q501	E438	E376	H313	A246	L184	I116	K53
			G692				H630	D564	N502	S440	T377	K314	E247	A185	I117	P54
			M693		L759		L631		F503	D441	Q378	A315	E248	E186	G118	P55
			A694		E760		L632	T565	F504	M442	V379	L316	T249	Q187	E119	K56
			M695		Q761		R633	A566	S503	H443	V379	I317	R250	Q187	K120	D57
			G696		H762		S634	E567	Q505	D443	I380	I317	K250	A121	H58	
			K697		A763		R635	E568	V506	H444	E381	Q318	N251	T189	N122	V59
			L698		T764		N635	I569	T507	A445	K382	T319	E252	T190	A123	K60
			A698		G765		L636	D570	N508	E446	G383	C320	E253	F191	T124	V61
			R699		T766		R637	A571	P509	L447	K384	N321	P254	Y192	A125	I62
			I700		H767		T638	T572	F511	L448	G385	S322	A255	P193	G63	
			D701		E768		F639	F573	D511	R449	L386	V323	F256	D194	P126	H64
			D702		E769		T640	P574	D512	R450	P387	N324	G257	L195	E129	





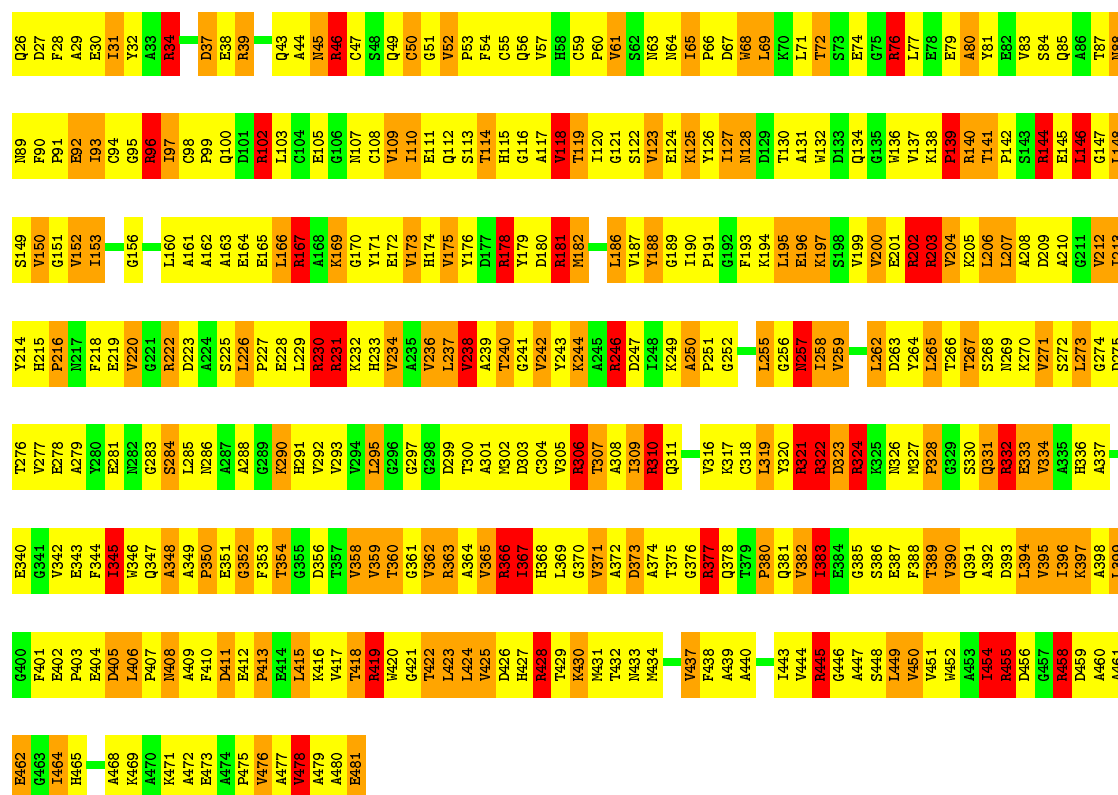
Response	Percentage
Yes, the U.S. is responsible	18%
No, the U.S. is not responsible	49%
Both the U.S. and the Taliban are responsible	25%
Neither the U.S. nor the Taliban is responsible	8%





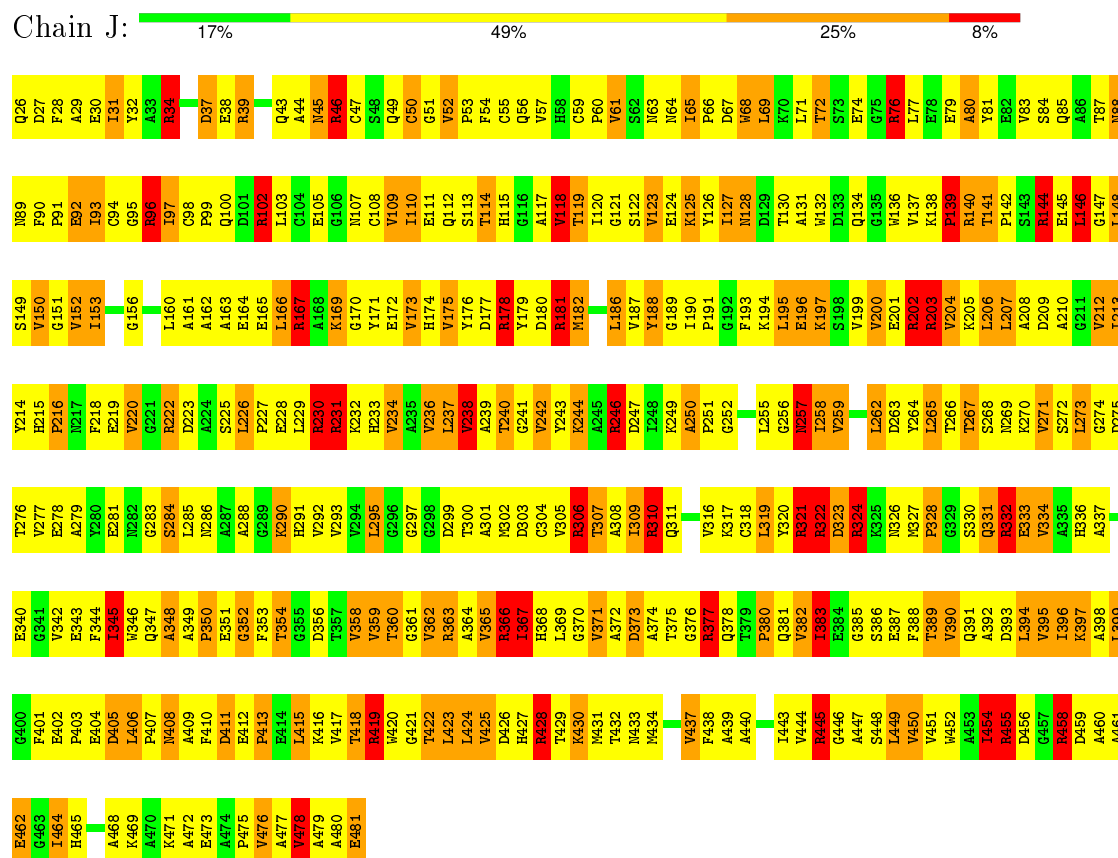
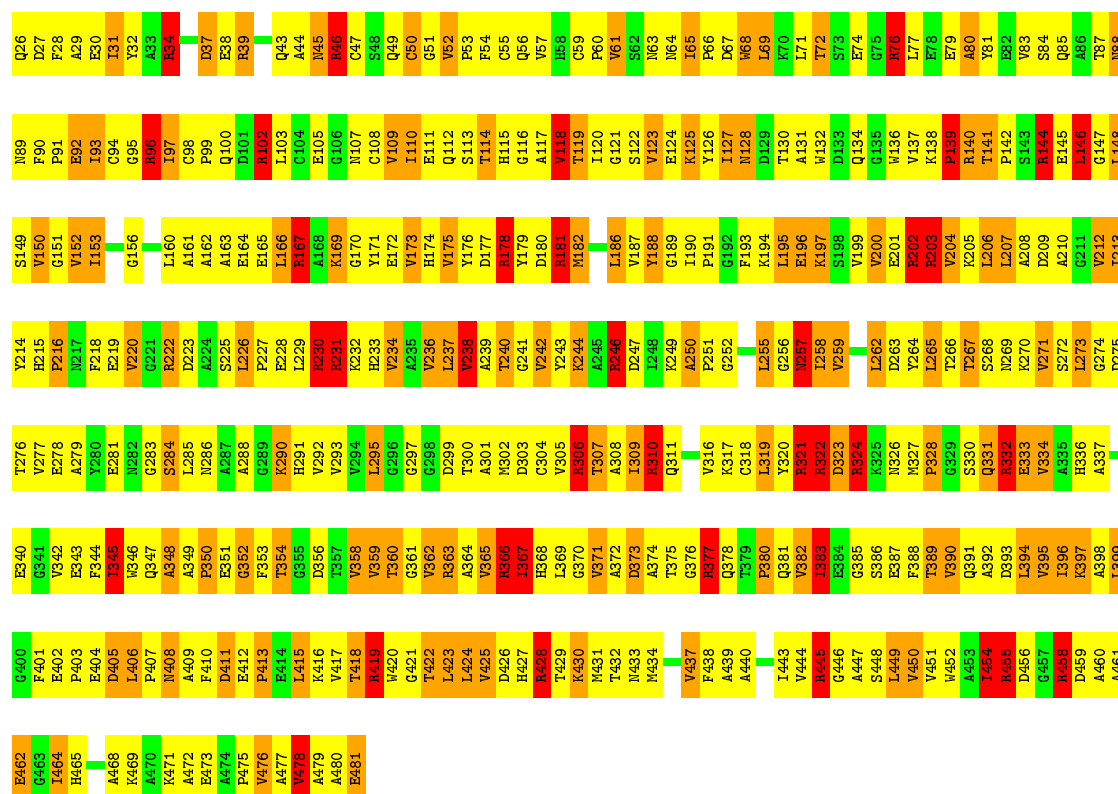
• Molecule 2: GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN

Chain H: 17% 49% 25% 8%

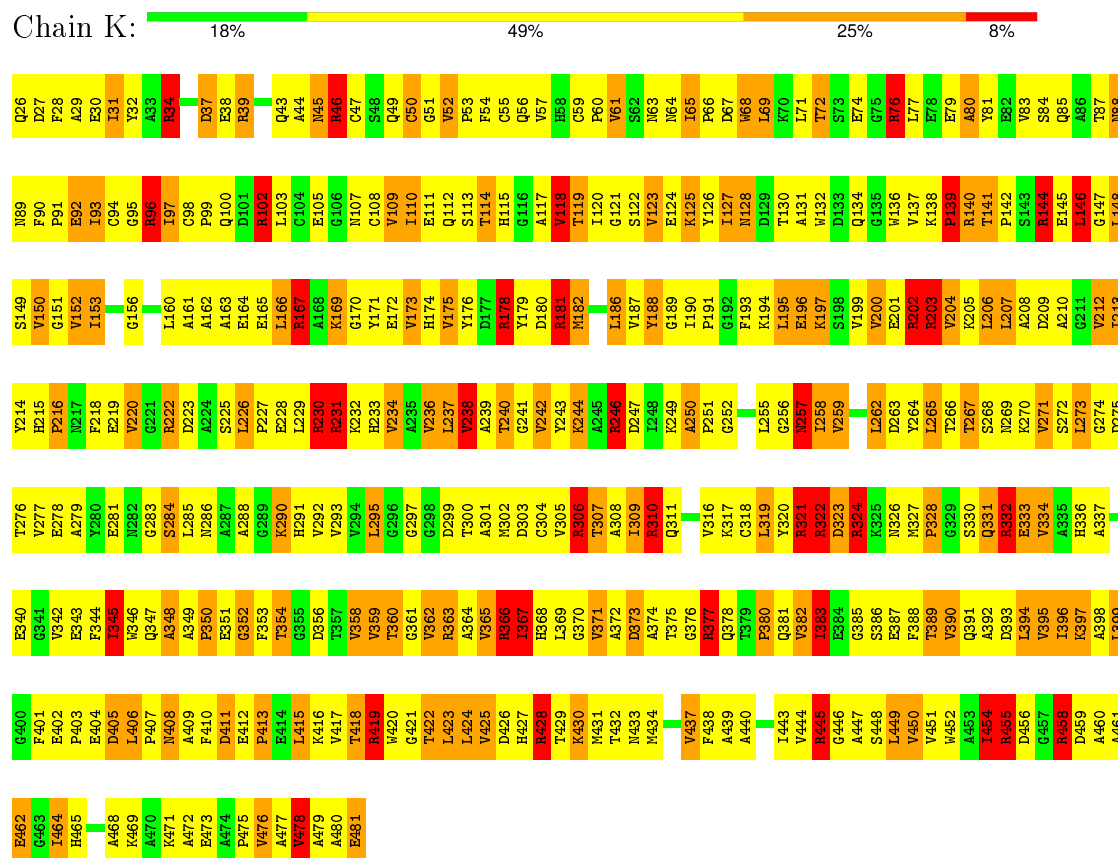


• Molecule 2: GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN

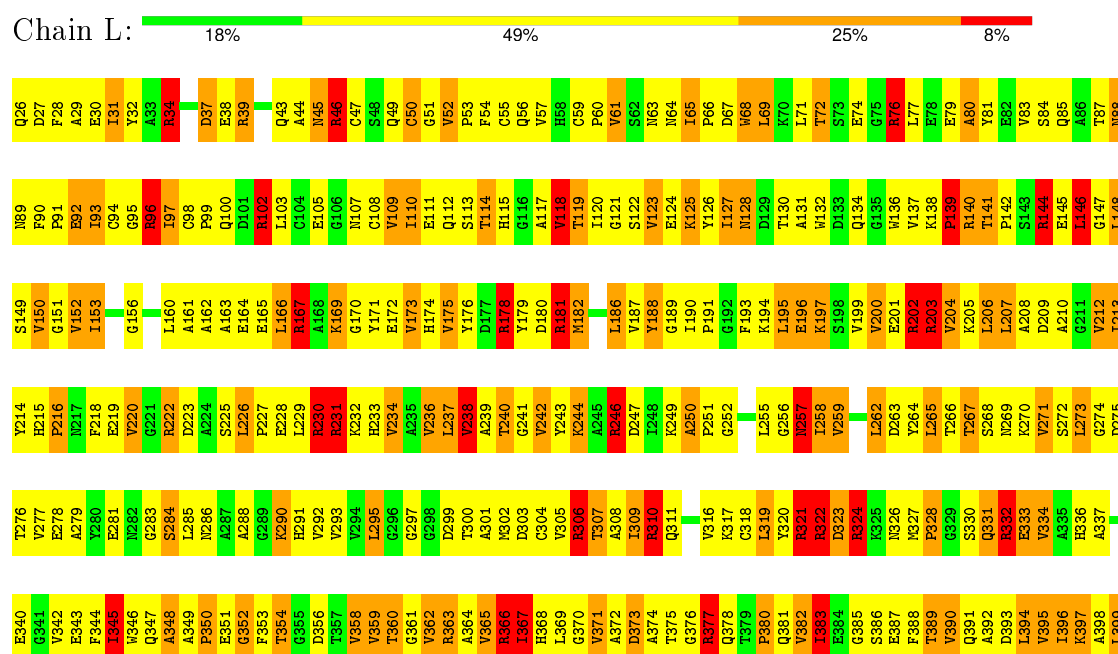
Chain I: 17% 49% 25% 8%



• Molecule 2: GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN



• Molecule 2: GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN





## 4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	Not provided	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	WIENER FILTERING OF VOLUMES FROM FOCAL SERIES	Depositor
Microscope	JEOL 2010F UHR	Depositor
Voltage (kV)	200	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	Not provided	Depositor
Minimum defocus (nm)	1700	Depositor
Maximum defocus (nm)	3200	Depositor
Magnification	50000	Depositor
Image detector	KODAK SO-163 FILM	Depositor



## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: SF4, FMN, F3S, OMT, AKG, FAD

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 2$	RMSZ	$\# Z  > 2$
1	A	1.06	7/11545 (0.1%)	1.58	200/15613 (1.3%)
1	B	1.10	7/11545 (0.1%)	1.58	192/15613 (1.2%)
1	C	1.06	8/11545 (0.1%)	1.58	201/15613 (1.3%)
1	D	1.10	7/11545 (0.1%)	1.58	191/15613 (1.2%)
1	E	1.06	7/11545 (0.1%)	1.58	200/15613 (1.3%)
1	F	1.10	7/11545 (0.1%)	1.58	194/15613 (1.2%)
2	G	1.00	0/3533	1.78	76/4793 (1.6%)
2	H	1.00	0/3533	1.78	76/4793 (1.6%)
2	I	1.00	0/3533	1.78	76/4793 (1.6%)
2	J	1.00	0/3533	1.78	76/4793 (1.6%)
2	K	1.00	0/3533	1.78	76/4793 (1.6%)
2	L	1.00	0/3533	1.78	76/4793 (1.6%)
All	All	1.07	43/90468 (0.0%)	1.63	1634/122436 (1.3%)

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	1	3
1	B	0	2
1	C	1	3
1	D	0	2
1	E	1	3
1	F	0	2
2	G	0	31
2	H	0	31
2	I	0	31
2	J	0	31
2	K	0	31

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	L	0	31
All	All	3	201

All (43) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	838	VAL	CA-CB	-7.81	1.38	1.54
1	A	838	VAL	CA-CB	-7.78	1.38	1.54
1	E	838	VAL	CA-CB	-7.76	1.38	1.54
1	E	746	ILE	CA-CB	-7.49	1.37	1.54
1	A	746	ILE	CA-CB	-7.46	1.37	1.54
1	C	746	ILE	CA-CB	-7.44	1.37	1.54
1	A	848	ALA	CA-CB	-6.52	1.38	1.52
1	E	848	ALA	CA-CB	-6.52	1.38	1.52
1	C	848	ALA	CA-CB	-6.52	1.38	1.52
1	A	1065	VAL	CB-CG2	-6.17	1.39	1.52
1	E	1065	VAL	CB-CG2	-6.17	1.39	1.52
1	C	1065	VAL	CB-CG2	-6.17	1.39	1.52
1	E	3	VAL	CA-CB	-5.69	1.42	1.54
1	A	3	VAL	CA-CB	-5.68	1.42	1.54
1	C	3	VAL	CA-CB	-5.67	1.42	1.54
1	D	1216	VAL	CB-CG1	-5.53	1.41	1.52
1	B	1394	VAL	CB-CG1	-5.52	1.41	1.52
1	B	1216	VAL	CB-CG1	-5.52	1.41	1.52
1	D	1394	VAL	CB-CG1	-5.52	1.41	1.52
1	E	910	VAL	CA-CB	-5.51	1.43	1.54
1	F	1216	VAL	CB-CG1	-5.50	1.41	1.52
1	C	910	VAL	CA-CB	-5.49	1.43	1.54
1	F	1394	VAL	CB-CG1	-5.49	1.41	1.52
1	A	910	VAL	CA-CB	-5.49	1.43	1.54
1	F	1136	VAL	CA-CB	-5.21	1.43	1.54
1	F	500	ARG	C-O	-5.20	1.13	1.23
1	B	500	ARG	C-O	-5.20	1.13	1.23
1	D	500	ARG	C-O	-5.18	1.13	1.23
1	B	1136	VAL	CA-CB	-5.18	1.43	1.54
1	D	1136	VAL	CA-CB	-5.18	1.43	1.54
1	F	1051	GLU	CD-OE2	5.11	1.31	1.25
1	D	1051	GLU	CD-OE2	5.08	1.31	1.25
1	F	222	ALA	CA-CB	-5.08	1.41	1.52
1	D	222	ALA	CA-CB	-5.08	1.41	1.52
1	B	222	ALA	CA-CB	-5.06	1.41	1.52
1	B	1051	GLU	CD-OE2	5.06	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	862	ALA	CA-CB	-5.05	1.41	1.52
1	D	862	ALA	CA-CB	-5.05	1.41	1.52
1	F	862	ALA	CA-CB	-5.05	1.41	1.52
1	C	741	ALA	CA-CB	-5.05	1.41	1.52
1	A	741	ALA	CA-CB	-5.04	1.41	1.52
1	E	741	ALA	CA-CB	-5.04	1.41	1.52
1	C	975	TYR	CE2-CZ	-5.01	1.32	1.38

All (1634) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	45	ASN	CB-CG-OD1	-39.98	41.63	121.60
2	L	45	ASN	CB-CG-OD1	-39.98	41.63	121.60
2	G	45	ASN	CB-CG-OD1	-39.98	41.65	121.60
2	J	45	ASN	CB-CG-OD1	-39.98	41.65	121.60
2	I	45	ASN	CB-CG-OD1	-39.95	41.70	121.60
2	K	45	ASN	CB-CG-OD1	-39.95	41.70	121.60
2	H	50	CYS	CA-CB-SG	14.46	140.03	114.00
2	I	50	CYS	CA-CB-SG	14.46	140.03	114.00
2	K	50	CYS	CA-CB-SG	14.46	140.03	114.00
2	L	50	CYS	CA-CB-SG	14.46	140.03	114.00
2	G	50	CYS	CA-CB-SG	14.46	140.02	114.00
2	J	50	CYS	CA-CB-SG	14.46	140.02	114.00
1	D	1062	ARG	NE-CZ-NH1	-12.70	113.95	120.30
1	B	1062	ARG	NE-CZ-NH1	-12.67	113.96	120.30
1	F	1062	ARG	NE-CZ-NH1	-12.63	113.98	120.30
1	A	608	ASP	CB-CG-OD2	12.17	129.25	118.30
1	C	608	ASP	CB-CG-OD2	12.15	129.23	118.30
1	E	608	ASP	CB-CG-OD2	12.14	129.23	118.30
1	C	141	ASP	CB-CG-OD2	11.98	129.08	118.30
1	A	141	ASP	CB-CG-OD2	11.98	129.08	118.30
1	E	141	ASP	CB-CG-OD2	11.98	129.08	118.30
1	B	888	GLY	N-CA-C	-11.66	83.96	113.10
1	D	888	GLY	N-CA-C	-11.66	83.96	113.10
1	F	888	GLY	N-CA-C	-11.65	83.97	113.10
2	H	50	CYS	N-CA-CB	-11.57	89.77	110.60
2	L	50	CYS	N-CA-CB	-11.57	89.77	110.60
2	G	50	CYS	N-CA-CB	-11.57	89.78	110.60
2	J	50	CYS	N-CA-CB	-11.57	89.78	110.60
2	I	50	CYS	N-CA-CB	-11.56	89.79	110.60
2	K	50	CYS	N-CA-CB	-11.56	89.79	110.60
1	B	890	ASP	CB-CG-OD1	11.27	128.44	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	890	ASP	CB-CG-OD1	11.26	128.44	118.30
1	D	890	ASP	CB-CG-OD1	11.24	128.41	118.30
1	B	683	LEU	CB-CG-CD2	-11.20	91.97	111.00
1	F	683	LEU	CB-CG-CD2	-11.19	91.98	111.00
1	D	683	LEU	CB-CG-CD2	-11.17	92.01	111.00
1	F	1056	LEU	CB-CG-CD1	-10.59	93.00	111.00
1	B	1056	LEU	CB-CG-CD1	-10.57	93.03	111.00
1	E	1019	ASP	CB-CG-OD2	10.57	127.81	118.30
1	A	1019	ASP	CB-CG-OD2	10.57	127.81	118.30
1	C	1019	ASP	CB-CG-OD2	10.55	127.80	118.30
1	D	1056	LEU	CB-CG-CD1	-10.54	93.08	111.00
1	F	1466	LEU	CB-CG-CD1	-10.41	93.30	111.00
1	B	1466	LEU	CB-CG-CD1	-10.41	93.31	111.00
1	D	1466	LEU	CB-CG-CD1	-10.41	93.31	111.00
1	F	852	ARG	NE-CZ-NH2	-10.31	115.14	120.30
1	E	1003	ARG	NE-CZ-NH1	10.29	125.44	120.30
1	D	456	LEU	CB-CG-CD2	-10.28	93.53	111.00
1	B	456	LEU	CB-CG-CD2	-10.28	93.53	111.00
1	F	456	LEU	CB-CG-CD2	-10.27	93.54	111.00
1	B	852	ARG	NE-CZ-NH2	-10.23	115.19	120.30
1	C	1003	ARG	NE-CZ-NH1	10.22	125.41	120.30
1	A	1003	ARG	NE-CZ-NH1	10.18	125.39	120.30
1	D	852	ARG	NE-CZ-NH2	-10.18	115.21	120.30
1	E	805	ASP	CB-CG-OD2	10.10	127.39	118.30
1	A	805	ASP	CB-CG-OD2	10.09	127.38	118.30
1	C	805	ASP	CB-CG-OD2	10.07	127.36	118.30
1	D	460	ASP	CB-CG-OD2	9.96	127.26	118.30
1	B	460	ASP	CB-CG-OD2	9.94	127.24	118.30
1	F	460	ASP	CB-CG-OD2	9.91	127.22	118.30
2	G	118	VAL	CA-CB-CG2	-9.86	96.11	110.90
2	J	118	VAL	CA-CB-CG2	-9.86	96.11	110.90
2	H	118	VAL	CA-CB-CG2	-9.85	96.12	110.90
2	I	118	VAL	CA-CB-CG2	-9.85	96.12	110.90
2	K	118	VAL	CA-CB-CG2	-9.85	96.12	110.90
2	L	118	VAL	CA-CB-CG2	-9.85	96.12	110.90
1	F	394	ASP	CB-CG-OD2	9.84	127.15	118.30
1	B	394	ASP	CB-CG-OD2	9.82	127.14	118.30
1	D	394	ASP	CB-CG-OD2	9.79	127.12	118.30
1	A	351	ARG	NE-CZ-NH2	9.71	125.16	120.30
1	E	351	ARG	NE-CZ-NH2	9.71	125.16	120.30
1	C	479	MET	CG-SD-CE	9.69	115.70	100.20
1	C	351	ARG	NE-CZ-NH2	9.69	125.14	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	479	MET	CG-SD-CE	9.68	115.69	100.20
1	E	479	MET	CG-SD-CE	9.68	115.69	100.20
1	D	608	ASP	CB-CG-OD1	-9.65	109.61	118.30
1	B	608	ASP	CB-CG-OD1	-9.64	109.63	118.30
1	E	1003	ARG	NE-CZ-NH2	-9.63	115.49	120.30
1	F	608	ASP	CB-CG-OD1	-9.62	109.64	118.30
1	C	1064	ARG	NE-CZ-NH1	-9.60	115.50	120.30
1	B	940	GLU	N-CA-C	9.59	136.90	111.00
1	D	940	GLU	N-CA-C	9.58	136.87	111.00
1	F	940	GLU	N-CA-C	9.58	136.87	111.00
1	C	1003	ARG	NE-CZ-NH2	-9.58	115.51	120.30
1	A	1064	ARG	NE-CZ-NH1	-9.55	115.53	120.30
1	A	1062	ARG	NE-CZ-NH1	-9.55	115.53	120.30
1	E	1064	ARG	NE-CZ-NH1	-9.54	115.53	120.30
1	A	1003	ARG	NE-CZ-NH2	-9.53	115.54	120.30
1	E	1062	ARG	NE-CZ-NH1	-9.52	115.54	120.30
1	C	460	ASP	CB-CG-OD2	9.48	126.83	118.30
1	E	460	ASP	CB-CG-OD2	9.48	126.83	118.30
1	C	1062	ARG	NE-CZ-NH1	-9.48	115.56	120.30
1	A	460	ASP	CB-CG-OD2	9.46	126.81	118.30
1	B	1218	ASP	CB-CG-OD2	9.43	126.79	118.30
1	D	1218	ASP	CB-CG-OD2	9.43	126.79	118.30
1	D	915	PHE	CA-C-N	9.41	135.02	116.20
1	B	915	PHE	CA-C-N	9.40	134.99	116.20
1	F	1218	ASP	CB-CG-OD2	9.39	126.75	118.30
1	F	915	PHE	CA-C-N	9.38	134.97	116.20
1	C	584	ASP	CB-CG-OD2	9.38	126.74	118.30
1	A	584	ASP	CB-CG-OD2	9.36	126.73	118.30
1	E	584	ASP	CB-CG-OD2	9.35	126.72	118.30
1	D	608	ASP	CB-CG-OD2	9.30	126.67	118.30
1	B	608	ASP	CB-CG-OD2	9.27	126.65	118.30
1	F	608	ASP	CB-CG-OD2	9.27	126.64	118.30
1	B	584	ASP	CB-CG-OD2	9.23	126.61	118.30
1	F	584	ASP	CB-CG-OD2	9.23	126.61	118.30
1	D	584	ASP	CB-CG-OD2	9.20	126.58	118.30
1	B	1355	VAL	CB-CA-C	-9.18	93.95	111.40
1	B	938	PRO	C-N-CA	-9.18	103.03	122.30
1	D	938	PRO	C-N-CA	-9.18	103.03	122.30
1	F	1355	VAL	CB-CA-C	-9.18	93.97	111.40
1	D	1355	VAL	CB-CA-C	-9.17	93.98	111.40
1	F	938	PRO	C-N-CA	-9.17	103.05	122.30
1	A	940	GLU	N-CA-C	9.16	135.74	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	890	ASP	CB-CG-OD1	9.16	126.55	118.30
1	E	940	GLU	N-CA-C	9.16	135.73	111.00
1	C	940	GLU	N-CA-C	9.16	135.72	111.00
1	A	890	ASP	CB-CG-OD1	9.15	126.54	118.30
1	E	890	ASP	CB-CG-OD1	9.12	126.50	118.30
1	E	1355	VAL	CB-CA-C	-9.04	94.22	111.40
1	A	1355	VAL	CB-CA-C	-9.04	94.23	111.40
1	C	1355	VAL	CB-CA-C	-9.03	94.25	111.40
1	E	394	ASP	CB-CG-OD2	9.02	126.42	118.30
1	A	394	ASP	CB-CG-OD2	9.01	126.41	118.30
1	F	1164	ARG	NE-CZ-NH1	-9.01	115.80	120.30
1	C	394	ASP	CB-CG-OD2	8.99	126.39	118.30
1	B	1164	ARG	NE-CZ-NH1	-8.92	115.84	120.30
1	D	1164	ARG	NE-CZ-NH1	-8.89	115.85	120.30
1	D	228	LEU	CB-CG-CD1	-8.84	95.98	111.00
1	B	228	LEU	CB-CG-CD1	-8.82	96.00	111.00
1	F	228	LEU	CB-CG-CD1	-8.82	96.01	111.00
1	E	403	ASP	CB-CG-OD2	8.79	126.21	118.30
1	A	403	ASP	CB-CG-OD2	8.73	126.16	118.30
1	E	1062	ARG	NE-CZ-NH2	8.73	124.66	120.30
1	A	1062	ARG	NE-CZ-NH2	8.72	124.66	120.30
1	C	403	ASP	CB-CG-OD2	8.71	126.14	118.30
1	A	351	ARG	NE-CZ-NH1	-8.69	115.95	120.30
1	C	351	ARG	NE-CZ-NH1	-8.68	115.96	120.30
1	C	1062	ARG	NE-CZ-NH2	8.66	124.63	120.30
1	C	1218	ASP	CB-CG-OD2	8.64	126.08	118.30
1	E	351	ARG	NE-CZ-NH1	-8.61	115.99	120.30
1	E	1218	ASP	CB-CG-OD2	8.61	126.05	118.30
1	A	1218	ASP	CB-CG-OD2	8.60	126.04	118.30
1	B	915	PHE	CB-CG-CD2	-8.56	114.81	120.80
1	D	915	PHE	CB-CG-CD2	-8.56	114.81	120.80
1	F	915	PHE	CB-CG-CD2	-8.56	114.81	120.80
2	I	333	GLU	CB-CG-CD	-8.52	91.20	114.20
2	K	333	GLU	CB-CG-CD	-8.52	91.20	114.20
2	H	333	GLU	CB-CG-CD	-8.52	91.21	114.20
2	L	333	GLU	CB-CG-CD	-8.52	91.21	114.20
2	G	333	GLU	CB-CG-CD	-8.51	91.23	114.20
2	J	333	GLU	CB-CG-CD	-8.51	91.23	114.20
1	F	915	PHE	CB-CG-CD1	8.44	126.70	120.80
1	D	915	PHE	CB-CG-CD1	8.42	126.69	120.80
1	A	337	ASP	CB-CG-OD1	8.39	125.85	118.30
1	B	915	PHE	CB-CG-CD1	8.38	126.67	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	337	ASP	CB-CG-OD1	8.38	125.84	118.30
1	C	534	ASP	CB-CG-OD2	8.37	125.83	118.30
1	E	534	ASP	CB-CG-OD2	8.37	125.83	118.30
1	A	534	ASP	CB-CG-OD2	8.37	125.83	118.30
1	E	337	ASP	CB-CG-OD1	8.36	125.82	118.30
1	E	228	LEU	CB-CG-CD1	-8.34	96.82	111.00
1	A	228	LEU	CB-CG-CD1	-8.34	96.83	111.00
1	C	228	LEU	CB-CG-CD1	-8.34	96.83	111.00
2	H	45	ASN	CB-CG-ND2	-8.32	96.73	116.70
2	L	45	ASN	CB-CG-ND2	-8.32	96.73	116.70
1	A	1171	VAL	C-N-CA	-8.32	100.90	121.70
2	G	45	ASN	CB-CG-ND2	-8.32	96.73	116.70
2	I	45	ASN	CB-CG-ND2	-8.32	96.73	116.70
2	J	45	ASN	CB-CG-ND2	-8.32	96.73	116.70
2	K	45	ASN	CB-CG-ND2	-8.32	96.73	116.70
1	E	1171	VAL	C-N-CA	-8.32	100.91	121.70
1	C	1171	VAL	C-N-CA	-8.31	100.92	121.70
1	A	545	LEU	CA-CB-CG	-8.29	96.23	115.30
1	C	545	LEU	CA-CB-CG	-8.28	96.25	115.30
1	D	337	ASP	N-CA-C	-8.28	88.64	111.00
1	D	979	ASP	CB-CG-OD2	8.28	125.75	118.30
1	E	545	LEU	CA-CB-CG	-8.28	96.26	115.30
1	B	337	ASP	N-CA-C	-8.28	88.65	111.00
1	B	1390	GLY	N-CA-C	-8.28	92.41	113.10
1	D	1390	GLY	N-CA-C	-8.28	92.41	113.10
1	F	337	ASP	N-CA-C	-8.28	88.66	111.00
1	B	369	THR	C-N-CA	-8.27	104.93	122.30
1	F	369	THR	C-N-CA	-8.27	104.94	122.30
1	F	1390	GLY	N-CA-C	-8.27	92.43	113.10
1	D	369	THR	C-N-CA	-8.26	104.95	122.30
1	F	979	ASP	CB-CG-OD2	8.26	125.73	118.30
1	B	979	ASP	CB-CG-OD2	8.23	125.71	118.30
1	B	1349	ARG	NE-CZ-NH1	-8.22	116.19	120.30
1	F	1349	ARG	NE-CZ-NH1	-8.20	116.20	120.30
1	F	1466	LEU	CA-CB-CG	8.18	134.12	115.30
2	H	246	ARG	C-N-CA	8.18	142.16	121.70
2	L	246	ARG	C-N-CA	8.18	142.16	121.70
1	D	1466	LEU	CA-CB-CG	8.18	134.11	115.30
1	B	1466	LEU	CA-CB-CG	8.18	134.10	115.30
2	G	246	ARG	C-N-CA	8.18	142.14	121.70
2	I	246	ARG	C-N-CA	8.18	142.14	121.70
2	J	246	ARG	C-N-CA	8.18	142.14	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	246	ARG	C-N-CA	8.18	142.14	121.70
1	D	1349	ARG	NE-CZ-NH1	-8.15	116.23	120.30
1	B	182	MET	CG-SD-CE	-8.14	87.18	100.20
1	D	182	MET	CG-SD-CE	-8.12	87.20	100.20
1	F	182	MET	CG-SD-CE	-8.12	87.20	100.20
2	H	352	GLY	N-CA-C	-8.11	92.82	113.10
2	L	352	GLY	N-CA-C	-8.11	92.82	113.10
2	G	352	GLY	N-CA-C	-8.11	92.84	113.10
2	J	352	GLY	N-CA-C	-8.11	92.84	113.10
2	I	352	GLY	N-CA-C	-8.10	92.86	113.10
2	K	352	GLY	N-CA-C	-8.10	92.86	113.10
2	H	88	ASN	N-CA-CB	8.06	125.10	110.60
2	L	88	ASN	N-CA-CB	8.06	125.10	110.60
2	G	88	ASN	N-CA-CB	8.05	125.09	110.60
2	I	88	ASN	N-CA-CB	8.05	125.09	110.60
2	J	88	ASN	N-CA-CB	8.05	125.09	110.60
2	K	88	ASN	N-CA-CB	8.05	125.09	110.60
1	C	1466	LEU	CB-CG-CD1	-8.04	97.32	111.00
1	A	1466	LEU	CB-CG-CD1	-8.04	97.34	111.00
1	E	1466	LEU	CB-CG-CD1	-8.03	97.36	111.00
1	C	746	ILE	CG1-CB-CG2	7.99	128.99	111.40
1	A	746	ILE	CG1-CB-CG2	7.98	128.95	111.40
1	F	650	LEU	CB-CG-CD2	-7.97	97.45	111.00
1	F	678	ARG	NE-CZ-NH1	-7.97	116.31	120.30
1	D	650	LEU	CB-CG-CD2	-7.97	97.46	111.00
1	B	650	LEU	CB-CG-CD2	-7.96	97.47	111.00
1	E	746	ILE	CG1-CB-CG2	7.96	128.91	111.40
1	D	678	ARG	NE-CZ-NH1	-7.95	116.33	120.30
1	B	678	ARG	NE-CZ-NH1	-7.95	116.33	120.30
1	E	1466	LEU	CA-CB-CG	7.90	133.47	115.30
1	A	1466	LEU	CA-CB-CG	7.89	133.46	115.30
1	C	482	ASP	CB-CG-OD1	7.88	125.40	118.30
1	A	482	ASP	CB-CG-OD1	7.88	125.39	118.30
1	C	1466	LEU	CA-CB-CG	7.88	133.42	115.30
1	E	482	ASP	CB-CG-OD1	7.86	125.37	118.30
1	A	372	VAL	CB-CA-C	-7.81	96.57	111.40
1	A	805	ASP	CB-CG-OD1	-7.80	111.28	118.30
1	E	805	ASP	CB-CG-OD1	-7.80	111.28	118.30
1	E	372	VAL	CB-CA-C	-7.79	96.61	111.40
1	E	286	ARG	NE-CZ-NH1	-7.78	116.41	120.30
1	C	372	VAL	CB-CA-C	-7.78	96.62	111.40
1	C	805	ASP	CB-CG-OD1	-7.76	111.32	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	536	ASP	CB-CG-OD2	7.74	125.27	118.30
1	A	286	ARG	NE-CZ-NH1	-7.74	116.43	120.30
1	D	536	ASP	CB-CG-OD2	7.72	125.25	118.30
1	B	536	ASP	CB-CG-OD2	7.71	125.24	118.30
1	A	965	LEU	CB-CG-CD2	-7.70	97.90	111.00
1	C	965	LEU	CB-CG-CD2	-7.70	97.91	111.00
1	E	965	LEU	CB-CG-CD2	-7.70	97.91	111.00
1	B	705	LEU	CB-CG-CD2	-7.66	97.98	111.00
1	C	286	ARG	NE-CZ-NH1	-7.66	116.47	120.30
1	F	705	LEU	CB-CG-CD2	-7.66	97.98	111.00
1	D	705	LEU	CB-CG-CD2	-7.65	98.00	111.00
1	F	805	ASP	CB-CG-OD2	7.63	125.17	118.30
1	B	805	ASP	CB-CG-OD2	7.62	125.16	118.30
1	F	560	ASP	CB-CG-OD1	7.62	125.16	118.30
1	B	560	ASP	CB-CG-OD1	7.61	125.15	118.30
1	F	826	ARG	NE-CZ-NH1	-7.60	116.50	120.30
1	D	560	ASP	CB-CG-OD1	7.60	125.14	118.30
1	B	689	LEU	CB-CG-CD1	-7.60	98.09	111.00
1	F	689	LEU	CB-CG-CD1	-7.59	98.09	111.00
1	D	805	ASP	CB-CG-OD2	7.59	125.13	118.30
1	D	826	ARG	NE-CZ-NH1	-7.58	116.51	120.30
1	D	689	LEU	CB-CG-CD1	-7.58	98.12	111.00
1	F	360	ASP	CB-CG-OD2	7.57	125.12	118.30
1	B	826	ARG	NE-CZ-NH1	-7.57	116.52	120.30
1	B	360	ASP	CB-CG-OD2	7.56	125.11	118.30
1	D	360	ASP	CB-CG-OD2	7.56	125.11	118.30
1	A	1376	LEU	CA-CB-CG	-7.55	97.93	115.30
1	C	1376	LEU	CA-CB-CG	-7.55	97.94	115.30
1	E	1173	ARG	NE-CZ-NH2	-7.55	116.53	120.30
1	E	1376	LEU	CA-CB-CG	-7.55	97.94	115.30
2	H	216	PRO	N-CA-C	7.54	131.72	112.10
2	L	216	PRO	N-CA-C	7.54	131.72	112.10
1	C	360	ASP	CB-CG-OD2	7.54	125.09	118.30
1	E	360	ASP	CB-CG-OD2	7.54	125.09	118.30
2	G	216	PRO	N-CA-C	7.54	131.70	112.10
2	J	216	PRO	N-CA-C	7.54	131.70	112.10
1	A	360	ASP	CB-CG-OD2	7.54	125.08	118.30
2	I	216	PRO	N-CA-C	7.53	131.67	112.10
2	K	216	PRO	N-CA-C	7.53	131.67	112.10
1	A	1173	ARG	NE-CZ-NH2	-7.53	116.54	120.30
1	F	993	ASP	CB-CG-OD2	7.52	125.07	118.30
1	D	993	ASP	CB-CG-OD2	7.51	125.06	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	993	ASP	CB-CG-OD2	7.50	125.05	118.30
1	E	993	ASP	CB-CG-OD2	7.50	125.05	118.30
1	C	993	ASP	CB-CG-OD2	7.49	125.04	118.30
1	B	993	ASP	CB-CG-OD2	7.49	125.04	118.30
2	I	50	CYS	CB-CA-C	7.48	125.36	110.40
2	K	50	CYS	CB-CA-C	7.48	125.36	110.40
1	D	175	ARG	NE-CZ-NH1	-7.48	116.56	120.30
1	A	608	ASP	CB-CG-OD1	-7.47	111.57	118.30
1	C	1173	ARG	NE-CZ-NH2	-7.47	116.56	120.30
1	D	689	LEU	CA-CB-CG	-7.47	98.11	115.30
1	E	608	ASP	CB-CG-OD1	-7.47	111.58	118.30
1	F	689	LEU	CA-CB-CG	-7.47	98.13	115.30
1	F	175	ARG	NE-CZ-NH1	-7.46	116.57	120.30
1	B	689	LEU	CA-CB-CG	-7.46	98.14	115.30
1	D	91	CYS	CA-CB-SG	-7.46	100.57	114.00
2	G	50	CYS	CB-CA-C	7.46	125.31	110.40
2	J	50	CYS	CB-CA-C	7.46	125.31	110.40
1	B	91	CYS	CA-CB-SG	-7.46	100.58	114.00
1	F	91	CYS	CA-CB-SG	-7.46	100.58	114.00
2	H	50	CYS	CB-CA-C	7.45	125.29	110.40
2	L	50	CYS	CB-CA-C	7.45	125.29	110.40
1	B	175	ARG	NE-CZ-NH1	-7.44	116.58	120.30
1	D	746	ILE	CG1-CB-CG2	7.43	127.74	111.40
1	C	608	ASP	CB-CG-OD1	-7.42	111.62	118.30
1	F	746	ILE	CG1-CB-CG2	7.42	127.73	111.40
1	B	746	ILE	CG1-CB-CG2	7.42	127.72	111.40
1	C	1147	ARG	NE-CZ-NH1	-7.40	116.60	120.30
1	F	915	PHE	C-N-CA	-7.40	106.76	122.30
1	B	915	PHE	C-N-CA	-7.40	106.76	122.30
1	A	1147	ARG	NE-CZ-NH1	-7.39	116.61	120.30
1	D	915	PHE	C-N-CA	-7.39	106.78	122.30
1	A	354	ARG	NE-CZ-NH1	-7.38	116.61	120.30
1	E	354	ARG	NE-CZ-NH1	-7.38	116.61	120.30
1	E	1147	ARG	NE-CZ-NH1	-7.37	116.61	120.30
1	E	1390	GLY	N-CA-C	-7.37	94.67	113.10
1	E	490	ASP	N-CA-CB	-7.37	97.33	110.60
1	D	228	LEU	CB-CA-C	-7.37	96.20	110.20
1	C	354	ARG	NE-CZ-NH1	-7.37	116.62	120.30
1	F	228	LEU	CB-CA-C	-7.37	96.20	110.20
1	A	490	ASP	N-CA-CB	-7.36	97.36	110.60
1	B	228	LEU	CB-CA-C	-7.36	96.23	110.20
1	A	1390	GLY	N-CA-C	-7.35	94.72	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	584	ASP	CB-CG-OD1	-7.35	111.68	118.30
1	C	1390	GLY	N-CA-C	-7.35	94.73	113.10
1	C	490	ASP	N-CA-CB	-7.34	97.38	110.60
1	A	584	ASP	CB-CG-OD1	-7.34	111.70	118.30
2	H	310	ARG	NH1-CZ-NH2	-7.33	111.34	119.40
2	L	310	ARG	NH1-CZ-NH2	-7.33	111.34	119.40
1	E	584	ASP	CB-CG-OD1	-7.32	111.72	118.30
2	G	310	ARG	NH1-CZ-NH2	-7.30	111.37	119.40
2	J	310	ARG	NH1-CZ-NH2	-7.30	111.37	119.40
2	I	310	ARG	NH1-CZ-NH2	-7.29	111.38	119.40
2	K	310	ARG	NH1-CZ-NH2	-7.29	111.38	119.40
1	B	1168	LEU	CA-CB-CG	7.27	132.02	115.30
1	D	1168	LEU	CA-CB-CG	7.27	132.01	115.30
1	F	1168	LEU	CA-CB-CG	7.27	132.01	115.30
2	I	203	ARG	NH1-CZ-NH2	-7.25	111.42	119.40
2	K	203	ARG	NH1-CZ-NH2	-7.25	111.42	119.40
2	H	203	ARG	NH1-CZ-NH2	-7.25	111.42	119.40
2	L	203	ARG	NH1-CZ-NH2	-7.25	111.42	119.40
1	A	915	PHE	C-N-CA	-7.24	107.09	122.30
1	C	915	PHE	C-N-CA	-7.24	107.09	122.30
1	E	915	PHE	C-N-CA	-7.24	107.09	122.30
2	G	203	ARG	NH1-CZ-NH2	-7.23	111.45	119.40
2	J	203	ARG	NH1-CZ-NH2	-7.23	111.45	119.40
2	I	45	ASN	OD1-CG-ND2	7.18	138.42	121.90
2	K	45	ASN	OD1-CG-ND2	7.18	138.42	121.90
2	G	45	ASN	OD1-CG-ND2	7.16	138.38	121.90
2	J	45	ASN	OD1-CG-ND2	7.16	138.38	121.90
2	H	45	ASN	OD1-CG-ND2	7.15	138.35	121.90
2	L	45	ASN	OD1-CG-ND2	7.15	138.35	121.90
1	B	263	LEU	CA-CB-CG	-7.14	98.87	115.30
2	H	181	ARG	NH1-CZ-NH2	-7.14	111.54	119.40
2	L	181	ARG	NH1-CZ-NH2	-7.14	111.54	119.40
1	A	835	LYS	CD-CE-NZ	7.14	128.12	111.70
1	F	263	LEU	CA-CB-CG	-7.14	98.88	115.30
1	F	1153	LEU	CA-CB-CG	-7.14	98.88	115.30
1	D	263	LEU	CA-CB-CG	-7.14	98.89	115.30
1	D	1153	LEU	CA-CB-CG	-7.14	98.89	115.30
1	C	835	LYS	CD-CE-NZ	7.13	128.11	111.70
1	E	835	LYS	CD-CE-NZ	7.13	128.10	111.70
2	G	181	ARG	NH1-CZ-NH2	-7.13	111.56	119.40
2	J	181	ARG	NH1-CZ-NH2	-7.13	111.56	119.40
2	I	181	ARG	NH1-CZ-NH2	-7.13	111.56	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	181	ARG	NH1-CZ-NH2	-7.13	111.56	119.40
1	B	1153	LEU	CA-CB-CG	-7.12	98.91	115.30
1	E	595	ASP	CB-CG-OD2	7.11	124.69	118.30
1	E	490	ASP	CB-CG-OD1	-7.10	111.91	118.30
1	A	263	LEU	CA-CB-CG	-7.10	98.97	115.30
1	B	339	ARG	NE-CZ-NH1	-7.10	116.75	120.30
1	C	263	LEU	CA-CB-CG	-7.09	98.98	115.30
1	A	595	ASP	CB-CG-OD2	7.09	124.68	118.30
1	E	263	LEU	CA-CB-CG	-7.09	98.99	115.30
1	A	490	ASP	CB-CG-OD1	-7.09	111.92	118.30
1	C	490	ASP	CB-CG-OD1	-7.08	111.92	118.30
1	F	368	GLU	CA-CB-CG	7.08	128.99	113.40
1	C	595	ASP	CB-CG-OD2	7.08	124.67	118.30
2	I	332	ARG	NH1-CZ-NH2	-7.08	111.61	119.40
2	K	332	ARG	NH1-CZ-NH2	-7.08	111.61	119.40
2	G	202	ARG	NH1-CZ-NH2	-7.08	111.61	119.40
2	I	202	ARG	NH1-CZ-NH2	-7.08	111.61	119.40
2	J	202	ARG	NH1-CZ-NH2	-7.08	111.61	119.40
2	K	202	ARG	NH1-CZ-NH2	-7.08	111.61	119.40
1	B	368	GLU	CA-CB-CG	7.08	128.97	113.40
1	F	826	ARG	NE-CZ-NH2	7.08	123.84	120.30
2	G	332	ARG	NH1-CZ-NH2	-7.08	111.62	119.40
2	J	332	ARG	NH1-CZ-NH2	-7.08	111.62	119.40
1	E	519	VAL	CB-CA-C	-7.07	97.96	111.40
1	B	1003	ARG	NE-CZ-NH2	-7.07	116.76	120.30
1	A	519	VAL	CB-CA-C	-7.07	97.97	111.40
1	D	339	ARG	NE-CZ-NH1	-7.07	116.76	120.30
1	C	519	VAL	CB-CA-C	-7.07	97.97	111.40
1	D	368	GLU	CA-CB-CG	7.07	128.95	113.40
1	F	339	ARG	NE-CZ-NH1	-7.06	116.77	120.30
2	I	167	ARG	NH1-CZ-NH2	-7.06	111.63	119.40
2	K	167	ARG	NH1-CZ-NH2	-7.06	111.63	119.40
1	D	500	ARG	NE-CZ-NH2	-7.06	116.77	120.30
1	E	1068	ARG	NE-CZ-NH1	-7.06	116.77	120.30
2	H	202	ARG	NH1-CZ-NH2	-7.06	111.63	119.40
2	L	202	ARG	NH1-CZ-NH2	-7.06	111.63	119.40
1	B	835	LYS	CD-CE-NZ	7.06	127.93	111.70
1	D	835	LYS	CD-CE-NZ	7.06	127.93	111.70
1	F	835	LYS	CD-CE-NZ	7.06	127.93	111.70
1	D	826	ARG	NE-CZ-NH2	7.05	123.83	120.30
1	C	1068	ARG	NE-CZ-NH1	-7.05	116.77	120.30
1	B	826	ARG	NE-CZ-NH2	7.05	123.83	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	332	ARG	NH1-CZ-NH2	-7.05	111.65	119.40
2	L	332	ARG	NH1-CZ-NH2	-7.05	111.65	119.40
1	A	1252	ARG	NE-CZ-NH1	-7.04	116.78	120.30
1	B	850	ARG	NE-CZ-NH2	-7.04	116.78	120.30
1	E	1252	ARG	NE-CZ-NH1	-7.03	116.79	120.30
1	C	1252	ARG	NE-CZ-NH1	-7.02	116.79	120.30
1	D	1003	ARG	NE-CZ-NH2	-7.01	116.80	120.30
2	G	167	ARG	NH1-CZ-NH2	-7.01	111.69	119.40
2	J	167	ARG	NH1-CZ-NH2	-7.01	111.69	119.40
1	A	1068	ARG	NE-CZ-NH1	-7.01	116.80	120.30
1	F	963	VAL	CB-CA-C	-7.00	98.09	111.40
2	H	167	ARG	NH1-CZ-NH2	-7.00	111.70	119.40
2	L	167	ARG	NH1-CZ-NH2	-7.00	111.70	119.40
1	D	368	GLU	N-CA-CB	7.00	123.20	110.60
1	D	963	VAL	CB-CA-C	-7.00	98.11	111.40
1	E	613	PRO	N-CD-CG	-7.00	92.71	103.20
1	B	913	GLY	N-CA-C	-6.99	95.62	113.10
1	B	963	VAL	CB-CA-C	-6.99	98.11	111.40
1	F	913	GLY	N-CA-C	-6.99	95.61	113.10
1	B	500	ARG	NE-CZ-NH2	-6.99	116.80	120.30
1	D	850	ARG	NE-CZ-NH2	-6.99	116.80	120.30
1	D	913	GLY	N-CA-C	-6.99	95.63	113.10
1	C	613	PRO	N-CD-CG	-6.98	92.72	103.20
1	A	613	PRO	N-CD-CG	-6.98	92.73	103.20
1	F	500	ARG	NE-CZ-NH2	-6.98	116.81	120.30
1	F	1003	ARG	NE-CZ-NH2	-6.98	116.81	120.30
1	F	850	ARG	NE-CZ-NH2	-6.98	116.81	120.30
1	B	368	GLU	N-CA-CB	6.97	123.15	110.60
1	F	368	GLU	N-CA-CB	6.97	123.14	110.60
2	I	127	ILE	CG1-CB-CG2	6.97	126.73	111.40
2	K	127	ILE	CG1-CB-CG2	6.97	126.73	111.40
2	G	127	ILE	CG1-CB-CG2	6.96	126.71	111.40
2	H	127	ILE	CG1-CB-CG2	6.96	126.71	111.40
2	J	127	ILE	CG1-CB-CG2	6.96	126.71	111.40
2	L	127	ILE	CG1-CB-CG2	6.96	126.71	111.40
1	A	564	ASP	CB-CG-OD2	6.94	124.55	118.30
1	C	1056	LEU	CB-CG-CD1	-6.94	99.20	111.00
1	E	1056	LEU	CB-CG-CD1	-6.94	99.20	111.00
1	C	564	ASP	CB-CG-OD2	6.94	124.54	118.30
1	E	564	ASP	CB-CG-OD2	6.94	124.54	118.30
1	A	1056	LEU	CB-CG-CD1	-6.93	99.21	111.00
1	D	337	ASP	C-N-CA	-6.93	107.74	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	324	ARG	NH1-CZ-NH2	-6.92	111.78	119.40
2	K	324	ARG	NH1-CZ-NH2	-6.92	111.78	119.40
1	B	337	ASP	C-N-CA	-6.92	107.77	122.30
2	H	324	ARG	NH1-CZ-NH2	-6.92	111.79	119.40
2	L	324	ARG	NH1-CZ-NH2	-6.92	111.79	119.40
2	G	324	ARG	NH1-CZ-NH2	-6.92	111.79	119.40
2	J	324	ARG	NH1-CZ-NH2	-6.92	111.79	119.40
2	I	178	ARG	NH1-CZ-NH2	-6.91	111.80	119.40
2	K	178	ARG	NH1-CZ-NH2	-6.91	111.80	119.40
1	B	1153	LEU	CB-CG-CD2	-6.91	99.25	111.00
1	D	1153	LEU	CB-CG-CD2	-6.91	99.25	111.00
1	F	1153	LEU	CB-CG-CD2	-6.91	99.25	111.00
2	I	46	ARG	NH1-CZ-NH2	-6.91	111.80	119.40
2	K	46	ARG	NH1-CZ-NH2	-6.91	111.80	119.40
2	G	46	ARG	NH1-CZ-NH2	-6.91	111.81	119.40
2	J	46	ARG	NH1-CZ-NH2	-6.91	111.81	119.40
1	C	837	PRO	N-CD-CG	-6.90	92.85	103.20
2	H	46	ARG	NH1-CZ-NH2	-6.90	111.81	119.40
2	H	178	ARG	NH1-CZ-NH2	-6.90	111.81	119.40
2	L	46	ARG	NH1-CZ-NH2	-6.90	111.81	119.40
2	L	178	ARG	NH1-CZ-NH2	-6.90	111.81	119.40
1	E	837	PRO	N-CD-CG	-6.90	92.85	103.20
1	F	337	ASP	C-N-CA	-6.90	107.82	122.30
2	H	153	ILE	CG1-CB-CG2	6.90	126.57	111.40
2	L	153	ILE	CG1-CB-CG2	6.90	126.57	111.40
1	A	837	PRO	N-CD-CG	-6.90	92.86	103.20
2	G	153	ILE	CG1-CB-CG2	6.89	126.56	111.40
2	J	153	ILE	CG1-CB-CG2	6.89	126.56	111.40
1	A	346	ASP	CB-CG-OD1	6.88	124.49	118.30
2	I	146	LEU	C-N-CA	-6.88	107.85	122.30
2	K	146	LEU	C-N-CA	-6.88	107.85	122.30
1	E	346	ASP	CB-CG-OD1	6.88	124.49	118.30
2	G	178	ARG	NH1-CZ-NH2	-6.88	111.83	119.40
2	I	153	ILE	CG1-CB-CG2	6.88	126.53	111.40
2	J	178	ARG	NH1-CZ-NH2	-6.88	111.83	119.40
2	K	153	ILE	CG1-CB-CG2	6.88	126.53	111.40
1	C	346	ASP	CB-CG-OD1	6.87	124.48	118.30
2	G	146	LEU	C-N-CA	-6.87	107.87	122.30
2	J	146	LEU	C-N-CA	-6.87	107.87	122.30
1	D	683	LEU	CA-CB-CG	-6.87	99.50	115.30
2	H	76	ARG	NH1-CZ-NH2	-6.87	111.84	119.40
2	H	146	LEU	C-N-CA	-6.87	107.88	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	L	76	ARG	NH1-CZ-NH2	-6.87	111.84	119.40
2	L	146	LEU	C-N-CA	-6.87	107.88	122.30
1	B	683	LEU	CA-CB-CG	-6.87	99.51	115.30
1	F	683	LEU	CA-CB-CG	-6.87	99.51	115.30
2	H	428	ARG	NH1-CZ-NH2	-6.86	111.85	119.40
2	L	428	ARG	NH1-CZ-NH2	-6.86	111.85	119.40
1	F	481	ASP	CB-CG-OD2	6.86	124.47	118.30
2	G	34	ARG	NH1-CZ-NH2	-6.85	111.86	119.40
2	I	428	ARG	NH1-CZ-NH2	-6.85	111.86	119.40
2	J	34	ARG	NH1-CZ-NH2	-6.85	111.86	119.40
2	K	428	ARG	NH1-CZ-NH2	-6.85	111.86	119.40
2	H	34	ARG	NH1-CZ-NH2	-6.85	111.87	119.40
2	H	458	ARG	NH1-CZ-NH2	-6.85	111.87	119.40
2	I	76	ARG	NH1-CZ-NH2	-6.85	111.87	119.40
2	K	76	ARG	NH1-CZ-NH2	-6.85	111.87	119.40
2	L	34	ARG	NH1-CZ-NH2	-6.85	111.87	119.40
2	L	458	ARG	NH1-CZ-NH2	-6.85	111.87	119.40
2	G	76	ARG	NH1-CZ-NH2	-6.85	111.87	119.40
2	J	76	ARG	NH1-CZ-NH2	-6.85	111.87	119.40
2	I	34	ARG	NH1-CZ-NH2	-6.84	111.87	119.40
2	K	34	ARG	NH1-CZ-NH2	-6.84	111.87	119.40
2	G	322	ARG	NH1-CZ-NH2	-6.84	111.87	119.40
2	I	322	ARG	NH1-CZ-NH2	-6.84	111.87	119.40
2	J	322	ARG	NH1-CZ-NH2	-6.84	111.87	119.40
2	K	322	ARG	NH1-CZ-NH2	-6.84	111.87	119.40
2	G	458	ARG	NH1-CZ-NH2	-6.84	111.88	119.40
2	J	458	ARG	NH1-CZ-NH2	-6.84	111.88	119.40
2	G	428	ARG	NH1-CZ-NH2	-6.84	111.88	119.40
2	H	96	ARG	NH1-CZ-NH2	-6.84	111.88	119.40
2	J	428	ARG	NH1-CZ-NH2	-6.84	111.88	119.40
2	L	96	ARG	NH1-CZ-NH2	-6.84	111.88	119.40
1	F	1062	ARG	NE-CZ-NH2	6.84	123.72	120.30
2	I	445	ARG	NH1-CZ-NH2	-6.84	111.88	119.40
2	I	455	ARG	NH1-CZ-NH2	-6.84	111.88	119.40
2	K	445	ARG	NH1-CZ-NH2	-6.84	111.88	119.40
2	K	455	ARG	NH1-CZ-NH2	-6.84	111.88	119.40
1	D	481	ASP	CB-CG-OD2	6.83	124.45	118.30
2	G	96	ARG	NH1-CZ-NH2	-6.83	111.88	119.40
2	H	455	ARG	NH1-CZ-NH2	-6.83	111.88	119.40
2	J	96	ARG	NH1-CZ-NH2	-6.83	111.88	119.40
2	L	455	ARG	NH1-CZ-NH2	-6.83	111.88	119.40
2	G	445	ARG	NH1-CZ-NH2	-6.83	111.88	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	445	ARG	NH1-CZ-NH2	-6.83	111.88	119.40
2	G	144	ARG	NH1-CZ-NH2	-6.83	111.89	119.40
2	J	144	ARG	NH1-CZ-NH2	-6.83	111.89	119.40
1	C	228	LEU	CB-CA-C	-6.82	97.24	110.20
1	E	228	LEU	CB-CA-C	-6.82	97.24	110.20
2	I	96	ARG	NH1-CZ-NH2	-6.82	111.89	119.40
2	K	96	ARG	NH1-CZ-NH2	-6.82	111.89	119.40
2	G	455	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
2	H	322	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
2	J	455	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
2	L	322	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
1	B	831	LEU	CA-CB-CG	6.82	130.99	115.30
1	B	1062	ARG	NE-CZ-NH2	6.82	123.71	120.30
2	H	144	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
2	L	144	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
1	B	481	ASP	CB-CG-OD2	6.82	124.44	118.30
2	H	377	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
2	L	377	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
2	I	144	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
2	I	366	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
2	K	144	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
2	K	366	ARG	NH1-CZ-NH2	-6.82	111.90	119.40
1	F	831	LEU	CA-CB-CG	6.81	130.97	115.30
1	A	228	LEU	CB-CA-C	-6.81	97.26	110.20
1	D	1062	ARG	NE-CZ-NH2	6.81	123.70	120.30
1	D	831	LEU	CA-CB-CG	6.81	130.96	115.30
2	G	377	ARG	NH1-CZ-NH2	-6.81	111.91	119.40
2	H	231	ARG	NH1-CZ-NH2	-6.81	111.91	119.40
2	J	377	ARG	NH1-CZ-NH2	-6.81	111.91	119.40
2	L	231	ARG	NH1-CZ-NH2	-6.81	111.91	119.40
2	I	377	ARG	NH1-CZ-NH2	-6.80	111.92	119.40
2	K	377	ARG	NH1-CZ-NH2	-6.80	111.92	119.40
2	G	231	ARG	NH1-CZ-NH2	-6.80	111.92	119.40
2	G	366	ARG	NH1-CZ-NH2	-6.80	111.92	119.40
2	J	231	ARG	NH1-CZ-NH2	-6.80	111.92	119.40
2	J	366	ARG	NH1-CZ-NH2	-6.80	111.92	119.40
1	E	536	ASP	CB-CG-OD2	6.79	124.41	118.30
2	I	458	ARG	NH1-CZ-NH2	-6.79	111.93	119.40
2	K	458	ARG	NH1-CZ-NH2	-6.79	111.93	119.40
1	D	1269	ARG	NE-CZ-NH2	-6.79	116.91	120.30
2	H	445	ARG	NH1-CZ-NH2	-6.79	111.93	119.40
2	I	39	ARG	NH1-CZ-NH2	-6.79	111.93	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	39	ARG	NH1-CZ-NH2	-6.79	111.93	119.40
2	L	445	ARG	NH1-CZ-NH2	-6.79	111.93	119.40
2	G	306	ARG	NH1-CZ-NH2	-6.79	111.94	119.40
2	I	230	ARG	NH1-CZ-NH2	-6.79	111.94	119.40
2	J	306	ARG	NH1-CZ-NH2	-6.79	111.94	119.40
2	K	230	ARG	NH1-CZ-NH2	-6.79	111.94	119.40
1	B	1269	ARG	NE-CZ-NH2	-6.78	116.91	120.30
2	H	419	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
2	L	419	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
2	H	246	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
2	L	246	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
1	F	1269	ARG	NE-CZ-NH2	-6.78	116.91	120.30
2	G	39	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
2	G	419	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
2	J	39	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
2	J	419	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
1	A	536	ASP	CB-CG-OD2	6.78	124.40	118.30
2	G	246	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
2	H	366	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
2	J	246	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
2	L	366	ARG	NH1-CZ-NH2	-6.78	111.94	119.40
1	C	536	ASP	CB-CG-OD2	6.77	124.39	118.30
2	G	321	ARG	NH1-CZ-NH2	-6.77	111.95	119.40
2	I	231	ARG	NH1-CZ-NH2	-6.77	111.95	119.40
2	I	321	ARG	NH1-CZ-NH2	-6.77	111.95	119.40
2	J	321	ARG	NH1-CZ-NH2	-6.77	111.95	119.40
2	K	231	ARG	NH1-CZ-NH2	-6.77	111.95	119.40
2	K	321	ARG	NH1-CZ-NH2	-6.77	111.95	119.40
1	E	505	GLN	C-N-CA	-6.77	104.78	121.70
2	H	321	ARG	NH1-CZ-NH2	-6.77	111.96	119.40
2	L	321	ARG	NH1-CZ-NH2	-6.77	111.96	119.40
1	B	915	PHE	CA-C-O	-6.77	105.89	120.10
2	I	246	ARG	NH1-CZ-NH2	-6.77	111.96	119.40
2	K	246	ARG	NH1-CZ-NH2	-6.77	111.96	119.40
1	A	505	GLN	C-N-CA	-6.76	104.79	121.70
1	B	607	THR	N-CA-C	6.76	129.26	111.00
2	H	39	ARG	NH1-CZ-NH2	-6.76	111.96	119.40
2	H	306	ARG	NH1-CZ-NH2	-6.76	111.96	119.40
2	I	419	ARG	NH1-CZ-NH2	-6.76	111.96	119.40
2	K	419	ARG	NH1-CZ-NH2	-6.76	111.96	119.40
2	L	39	ARG	NH1-CZ-NH2	-6.76	111.96	119.40
2	L	306	ARG	NH1-CZ-NH2	-6.76	111.96	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	607	THR	N-CA-C	6.76	129.26	111.00
1	D	915	PHE	CA-C-O	-6.76	105.90	120.10
1	F	607	THR	N-CA-C	6.76	129.26	111.00
1	F	1121	ASP	CB-CG-OD2	6.76	124.39	118.30
1	C	505	GLN	C-N-CA	-6.76	104.80	121.70
2	H	230	ARG	NH1-CZ-NH2	-6.76	111.96	119.40
2	I	306	ARG	NH1-CZ-NH2	-6.76	111.96	119.40
2	K	306	ARG	NH1-CZ-NH2	-6.76	111.96	119.40
2	L	230	ARG	NH1-CZ-NH2	-6.76	111.96	119.40
2	G	230	ARG	NH1-CZ-NH2	-6.76	111.97	119.40
2	H	363	ARG	NH1-CZ-NH2	-6.76	111.97	119.40
2	J	230	ARG	NH1-CZ-NH2	-6.76	111.97	119.40
2	L	363	ARG	NH1-CZ-NH2	-6.76	111.97	119.40
1	C	963	VAL	CB-CA-C	-6.75	98.57	111.40
1	F	915	PHE	CA-C-O	-6.75	105.93	120.10
2	I	140	ARG	NH1-CZ-NH2	-6.75	111.98	119.40
2	K	140	ARG	NH1-CZ-NH2	-6.75	111.98	119.40
1	B	1121	ASP	CB-CG-OD2	6.75	124.37	118.30
2	I	363	ARG	NH1-CZ-NH2	-6.74	111.98	119.40
2	K	363	ARG	NH1-CZ-NH2	-6.74	111.98	119.40
1	E	963	VAL	CB-CA-C	-6.74	98.59	111.40
2	G	363	ARG	NH1-CZ-NH2	-6.74	111.98	119.40
2	J	363	ARG	NH1-CZ-NH2	-6.74	111.98	119.40
1	A	963	VAL	CB-CA-C	-6.74	98.59	111.40
2	H	140	ARG	NH1-CZ-NH2	-6.74	111.99	119.40
2	L	140	ARG	NH1-CZ-NH2	-6.74	111.99	119.40
2	G	140	ARG	NH1-CZ-NH2	-6.73	111.99	119.40
2	J	140	ARG	NH1-CZ-NH2	-6.73	111.99	119.40
1	D	1121	ASP	CB-CG-OD2	6.73	124.35	118.30
2	I	258	ILE	CG1-CB-CG2	6.72	126.19	111.40
2	K	258	ILE	CG1-CB-CG2	6.72	126.19	111.40
1	C	681	ARG	N-CA-C	-6.72	92.86	111.00
1	A	681	ARG	N-CA-C	-6.72	92.87	111.00
2	G	258	ILE	CG1-CB-CG2	6.71	126.17	111.40
2	J	258	ILE	CG1-CB-CG2	6.71	126.17	111.40
1	E	681	ARG	N-CA-C	-6.71	92.88	111.00
1	B	184	LEU	CB-CG-CD1	6.70	122.39	111.00
1	C	590	ARG	NE-CZ-NH1	-6.70	116.95	120.30
2	H	258	ILE	CG1-CB-CG2	6.70	126.13	111.40
2	L	258	ILE	CG1-CB-CG2	6.70	126.13	111.40
2	I	222	ARG	NH1-CZ-NH2	-6.70	112.03	119.40
2	K	222	ARG	NH1-CZ-NH2	-6.70	112.03	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	184	LEU	CB-CG-CD1	6.69	122.37	111.00
1	F	184	LEU	CB-CG-CD1	6.68	122.36	111.00
2	G	222	ARG	NH1-CZ-NH2	-6.67	112.06	119.40
2	J	222	ARG	NH1-CZ-NH2	-6.67	112.06	119.40
2	I	333	GLU	N-CA-CB	6.67	122.61	110.60
2	K	333	GLU	N-CA-CB	6.67	122.61	110.60
1	B	897	ASP	CB-CG-OD2	6.67	124.30	118.30
2	H	333	GLU	N-CA-CB	6.67	122.61	110.60
2	L	333	GLU	N-CA-CB	6.67	122.61	110.60
2	G	333	GLU	N-CA-CB	6.67	122.60	110.60
2	J	333	GLU	N-CA-CB	6.67	122.60	110.60
1	E	590	ARG	NE-CZ-NH1	-6.66	116.97	120.30
2	H	222	ARG	NH1-CZ-NH2	-6.66	112.07	119.40
2	L	222	ARG	NH1-CZ-NH2	-6.66	112.07	119.40
2	H	247	ASP	N-CA-C	6.66	128.98	111.00
2	L	247	ASP	N-CA-C	6.66	128.98	111.00
1	A	590	ARG	NE-CZ-NH1	-6.66	116.97	120.30
2	G	247	ASP	N-CA-C	6.66	128.97	111.00
2	H	102	ARG	NH1-CZ-NH2	-6.66	112.08	119.40
2	I	247	ASP	N-CA-C	6.66	128.97	111.00
2	J	247	ASP	N-CA-C	6.66	128.97	111.00
2	K	247	ASP	N-CA-C	6.66	128.97	111.00
2	L	102	ARG	NH1-CZ-NH2	-6.66	112.08	119.40
1	D	897	ASP	CB-CG-OD2	6.65	124.28	118.30
1	F	897	ASP	CB-CG-OD2	6.64	124.28	118.30
2	G	102	ARG	NH1-CZ-NH2	-6.64	112.10	119.40
2	J	102	ARG	NH1-CZ-NH2	-6.64	112.10	119.40
2	I	102	ARG	NH1-CZ-NH2	-6.61	112.13	119.40
2	K	102	ARG	NH1-CZ-NH2	-6.61	112.13	119.40
1	B	704	LEU	N-CA-CB	-6.59	97.21	110.40
1	D	704	LEU	N-CA-CB	-6.59	97.23	110.40
1	F	704	LEU	N-CA-CB	-6.57	97.25	110.40
1	D	704	LEU	CB-CG-CD1	6.56	122.15	111.00
1	B	637	ARG	NE-CZ-NH1	-6.55	117.02	120.30
2	G	383	ILE	CG1-CB-CG2	6.55	125.82	111.40
2	J	383	ILE	CG1-CB-CG2	6.55	125.82	111.40
1	B	704	LEU	CB-CG-CD1	6.55	122.14	111.00
1	F	637	ARG	NE-CZ-NH1	-6.55	117.03	120.30
2	H	383	ILE	CG1-CB-CG2	6.55	125.81	111.40
2	I	383	ILE	CG1-CB-CG2	6.55	125.81	111.40
2	K	383	ILE	CG1-CB-CG2	6.55	125.81	111.40
2	L	383	ILE	CG1-CB-CG2	6.55	125.81	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	726	GLU	N-CA-C	-6.55	93.32	111.00
1	D	726	GLU	N-CA-C	-6.55	93.33	111.00
1	D	637	ARG	NE-CZ-NH1	-6.54	117.03	120.30
1	F	704	LEU	CB-CG-CD1	6.54	122.12	111.00
1	F	726	GLU	N-CA-C	-6.54	93.35	111.00
1	D	42	ASP	CB-CG-OD2	6.53	124.18	118.30
1	E	337	ASP	N-CA-C	-6.53	93.38	111.00
1	B	42	ASP	CB-CG-OD2	6.52	124.17	118.30
1	A	337	ASP	N-CA-C	-6.51	93.41	111.00
1	C	481	ASP	CB-CG-OD2	6.51	124.16	118.30
1	D	570	ASP	CB-CG-OD1	6.51	124.16	118.30
1	D	883	ASP	CB-CG-OD1	6.51	124.16	118.30
1	A	481	ASP	CB-CG-OD2	6.50	124.16	118.30
1	F	570	ASP	CB-CG-OD1	6.50	124.15	118.30
1	C	337	ASP	N-CA-C	-6.50	93.45	111.00
1	C	803	THR	CA-CB-CG2	-6.50	103.30	112.40
2	I	238	VAL	C-N-CA	6.50	137.95	121.70
2	K	238	VAL	C-N-CA	6.50	137.95	121.70
1	B	570	ASP	CB-CG-OD1	6.50	124.15	118.30
1	B	883	ASP	CB-CG-OD1	6.50	124.15	118.30
1	F	42	ASP	CB-CG-OD2	6.49	124.14	118.30
1	F	196	LEU	CA-CB-CG	-6.49	100.38	115.30
1	F	595	ASP	CB-CG-OD2	6.49	124.14	118.30
1	A	803	THR	CA-CB-CG2	-6.49	103.32	112.40
2	G	238	VAL	C-N-CA	6.49	137.91	121.70
2	J	238	VAL	C-N-CA	6.49	137.91	121.70
1	D	196	LEU	CA-CB-CG	-6.48	100.39	115.30
1	C	887	GLY	N-CA-C	6.48	129.31	113.10
1	D	595	ASP	CB-CG-OD2	6.48	124.13	118.30
1	E	803	THR	CA-CB-CG2	-6.48	103.33	112.40
1	B	196	LEU	CA-CB-CG	-6.48	100.41	115.30
1	E	481	ASP	CB-CG-OD2	6.48	124.13	118.30
1	A	938	PRO	C-N-CA	-6.47	108.70	122.30
1	F	529	LEU	CA-CB-CG	-6.47	100.41	115.30
2	H	238	VAL	C-N-CA	6.47	137.88	121.70
2	L	238	VAL	C-N-CA	6.47	137.88	121.70
1	A	887	GLY	N-CA-C	6.47	129.28	113.10
1	E	887	GLY	N-CA-C	6.47	129.28	113.10
1	E	938	PRO	C-N-CA	-6.47	108.71	122.30
1	F	883	ASP	CB-CG-OD1	6.47	124.12	118.30
1	B	529	LEU	CA-CB-CG	-6.47	100.43	115.30
1	D	346	ASP	CB-CG-OD2	6.47	124.12	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	595	ASP	CB-CG-OD2	6.46	124.12	118.30
1	F	346	ASP	CB-CG-OD2	6.46	124.12	118.30
1	A	850	ARG	NE-CZ-NH2	-6.46	117.07	120.30
1	B	346	ASP	CB-CG-OD2	6.46	124.12	118.30
1	D	529	LEU	CA-CB-CG	-6.46	100.44	115.30
2	G	92	GLU	CB-CA-C	-6.46	97.48	110.40
2	H	213	ILE	CG1-CB-CG2	6.46	125.62	111.40
2	J	92	GLU	CB-CA-C	-6.46	97.48	110.40
2	L	213	ILE	CG1-CB-CG2	6.46	125.62	111.40
1	C	938	PRO	C-N-CA	-6.46	108.74	122.30
2	H	92	GLU	CB-CA-C	-6.46	97.49	110.40
2	L	92	GLU	CB-CA-C	-6.46	97.49	110.40
2	G	213	ILE	CG1-CB-CG2	6.45	125.60	111.40
2	I	92	GLU	CB-CA-C	-6.45	97.49	110.40
2	I	367	ILE	CG1-CB-CG2	6.45	125.60	111.40
2	J	213	ILE	CG1-CB-CG2	6.45	125.60	111.40
2	K	92	GLU	CB-CA-C	-6.45	97.49	110.40
2	K	367	ILE	CG1-CB-CG2	6.45	125.60	111.40
2	G	367	ILE	CG1-CB-CG2	6.45	125.59	111.40
2	J	367	ILE	CG1-CB-CG2	6.45	125.59	111.40
2	I	213	ILE	CG1-CB-CG2	6.45	125.58	111.40
2	K	213	ILE	CG1-CB-CG2	6.45	125.58	111.40
1	C	850	ARG	NE-CZ-NH2	-6.44	117.08	120.30
2	H	367	ILE	CG1-CB-CG2	6.44	125.56	111.40
2	L	367	ILE	CG1-CB-CG2	6.44	125.56	111.40
1	E	850	ARG	NE-CZ-NH2	-6.43	117.08	120.30
1	D	141	ASP	CB-CG-OD2	6.41	124.07	118.30
1	F	141	ASP	CB-CG-OD2	6.41	124.07	118.30
1	B	141	ASP	CB-CG-OD2	6.40	124.06	118.30
1	D	590	ARG	NE-CZ-NH1	-6.40	117.10	120.30
1	F	1125	ARG	NE-CZ-NH1	-6.38	117.11	120.30
1	A	715	VAL	CB-CA-C	-6.37	99.30	111.40
1	C	715	VAL	CB-CA-C	-6.37	99.30	111.40
1	E	1078	ASP	CB-CG-OD2	6.36	124.03	118.30
1	B	1125	ARG	NE-CZ-NH1	-6.36	117.12	120.30
1	E	715	VAL	CB-CA-C	-6.36	99.31	111.40
1	C	1078	ASP	CB-CG-OD2	6.36	124.02	118.30
1	E	978	GLU	CA-CB-CG	-6.36	99.41	113.40
1	A	1078	ASP	CB-CG-OD2	6.35	124.02	118.30
1	D	1125	ARG	NE-CZ-NH1	-6.35	117.12	120.30
1	A	978	GLU	CA-CB-CG	-6.35	99.44	113.40
1	E	1376	LEU	CB-CG-CD1	6.34	121.79	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1058	LEU	CB-CG-CD2	-6.34	100.22	111.00
1	C	978	GLU	CA-CB-CG	-6.34	99.45	113.40
1	A	1376	LEU	CB-CG-CD1	6.34	121.78	111.00
1	C	1376	LEU	CB-CG-CD1	6.33	121.76	111.00
1	F	1058	LEU	CB-CG-CD2	-6.33	100.24	111.00
1	B	1138	LEU	CB-CG-CD1	-6.33	100.24	111.00
1	D	1138	LEU	CB-CG-CD1	-6.32	100.25	111.00
1	F	1138	LEU	CB-CG-CD1	-6.32	100.25	111.00
1	B	590	ARG	NE-CZ-NH1	-6.32	117.14	120.30
1	D	1058	LEU	CB-CG-CD2	-6.32	100.26	111.00
2	H	257	ASN	CB-CG-OD1	-6.31	108.98	121.60
2	L	257	ASN	CB-CG-OD1	-6.31	108.98	121.60
1	A	964	MET	CB-CA-C	-6.30	97.79	110.40
1	E	964	MET	CB-CA-C	-6.30	97.79	110.40
1	F	590	ARG	NE-CZ-NH1	-6.30	117.15	120.30
1	A	3	VAL	CB-CA-C	-6.30	99.42	111.40
1	C	3	VAL	CB-CA-C	-6.30	99.42	111.40
1	C	964	MET	CB-CA-C	-6.30	97.80	110.40
2	G	257	ASN	CB-CG-OD1	-6.29	109.01	121.60
2	J	257	ASN	CB-CG-OD1	-6.29	109.01	121.60
1	E	3	VAL	CB-CA-C	-6.29	99.45	111.40
2	I	257	ASN	CB-CG-OD1	-6.28	109.04	121.60
2	K	257	ASN	CB-CG-OD1	-6.28	109.04	121.60
1	F	214	ASN	CB-CA-C	-6.26	97.89	110.40
1	B	214	ASN	CB-CA-C	-6.25	97.89	110.40
1	D	214	ASN	CB-CA-C	-6.25	97.89	110.40
1	A	520	MET	CB-CG-SD	-6.25	93.66	112.40
1	E	520	MET	CB-CG-SD	-6.24	93.68	112.40
1	C	520	MET	CB-CG-SD	-6.24	93.69	112.40
1	C	106	GLY	N-CA-C	6.24	128.69	113.10
1	A	106	GLY	N-CA-C	6.24	128.69	113.10
1	A	110	VAL	CA-CB-CG1	-6.24	101.55	110.90
1	E	106	GLY	N-CA-C	6.24	128.69	113.10
1	F	1222	LEU	CB-CG-CD1	-6.23	100.41	111.00
1	C	110	VAL	CA-CB-CG1	-6.23	101.55	110.90
1	E	110	VAL	CA-CB-CG1	-6.23	101.56	110.90
1	D	1222	LEU	CB-CG-CD1	-6.22	100.42	111.00
2	I	309	ILE	CG1-CB-CG2	6.22	125.08	111.40
2	K	309	ILE	CG1-CB-CG2	6.22	125.08	111.40
1	B	1222	LEU	CB-CG-CD1	-6.22	100.43	111.00
1	E	443	ASP	CB-CG-OD2	6.22	123.90	118.30
1	B	732	ARG	NE-CZ-NH2	-6.22	117.19	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	91	CYS	CA-CB-SG	-6.21	102.82	114.00
1	C	443	ASP	CB-CG-OD2	6.21	123.89	118.30
1	A	91	CYS	CA-CB-SG	-6.21	102.83	114.00
1	A	443	ASP	CB-CG-OD2	6.21	123.89	118.30
1	D	125	ARG	NE-CZ-NH2	-6.21	117.20	120.30
2	G	309	ILE	CG1-CB-CG2	6.21	125.06	111.40
2	H	309	ILE	CG1-CB-CG2	6.21	125.06	111.40
2	J	309	ILE	CG1-CB-CG2	6.21	125.06	111.40
2	L	309	ILE	CG1-CB-CG2	6.21	125.06	111.40
1	D	182	MET	CB-CA-C	-6.20	98.00	110.40
1	F	732	ARG	NE-CZ-NH2	-6.20	117.20	120.30
1	B	182	MET	CB-CA-C	-6.20	98.00	110.40
1	F	182	MET	CB-CA-C	-6.20	98.00	110.40
2	H	345	ILE	N-CA-C	-6.20	94.26	111.00
2	L	345	ILE	N-CA-C	-6.20	94.26	111.00
2	I	345	ILE	N-CA-C	-6.20	94.27	111.00
2	K	345	ILE	N-CA-C	-6.20	94.27	111.00
1	B	1053	HIS	CB-CA-C	-6.19	98.01	110.40
1	E	91	CYS	CA-CB-SG	-6.19	102.85	114.00
1	E	289	ARG	NE-CZ-NH1	-6.19	117.20	120.30
1	F	1053	HIS	CB-CA-C	-6.19	98.02	110.40
1	D	732	ARG	NE-CZ-NH2	-6.19	117.21	120.30
2	G	345	ILE	N-CA-C	-6.19	94.30	111.00
2	J	345	ILE	N-CA-C	-6.19	94.30	111.00
1	D	1053	HIS	CB-CA-C	-6.19	98.03	110.40
2	G	93	ILE	CG1-CB-CG2	6.17	124.99	111.40
2	H	93	ILE	CG1-CB-CG2	6.17	124.99	111.40
2	J	93	ILE	CG1-CB-CG2	6.17	124.99	111.40
2	L	93	ILE	CG1-CB-CG2	6.17	124.99	111.40
2	I	93	ILE	CG1-CB-CG2	6.17	124.97	111.40
2	K	93	ILE	CG1-CB-CG2	6.17	124.97	111.40
1	A	289	ARG	NE-CZ-NH1	-6.16	117.22	120.30
1	A	915	PHE	N-CA-C	6.16	127.63	111.00
1	E	915	PHE	N-CA-C	6.15	127.62	111.00
1	B	125	ARG	NE-CZ-NH2	-6.14	117.23	120.30
1	C	915	PHE	N-CA-C	6.14	127.59	111.00
1	C	289	ARG	NE-CZ-NH1	-6.14	117.23	120.30
1	D	50	VAL	CB-CA-C	-6.13	99.75	111.40
1	B	50	VAL	CB-CA-C	-6.13	99.75	111.40
1	E	1070	ASP	CB-CG-OD2	6.12	123.81	118.30
1	F	90	ARG	NE-CZ-NH1	-6.12	117.24	120.30
2	G	345	ILE	CG1-CB-CG2	6.12	124.86	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	345	ILE	CG1-CB-CG2	6.12	124.86	111.40
1	C	1074	LYS	CB-CA-C	-6.12	98.16	110.40
2	I	345	ILE	CG1-CB-CG2	6.12	124.86	111.40
2	K	345	ILE	CG1-CB-CG2	6.12	124.86	111.40
1	F	50	VAL	CB-CA-C	-6.12	99.78	111.40
2	H	345	ILE	CG1-CB-CG2	6.12	124.85	111.40
2	L	345	ILE	CG1-CB-CG2	6.12	124.85	111.40
1	D	986	ASP	CB-CG-OD2	6.11	123.80	118.30
1	F	986	ASP	CB-CG-OD2	6.11	123.80	118.30
1	B	90	ARG	NE-CZ-NH1	-6.10	117.25	120.30
1	A	1074	LYS	CB-CA-C	-6.09	98.21	110.40
1	B	986	ASP	CB-CG-OD2	6.09	123.78	118.30
1	F	519	VAL	CB-CA-C	-6.09	99.83	111.40
1	D	519	VAL	CB-CA-C	-6.09	99.83	111.40
1	D	890	ASP	CB-CG-OD2	-6.09	112.82	118.30
1	B	519	VAL	CB-CA-C	-6.08	99.84	111.40
1	A	1070	ASP	CB-CG-OD2	6.08	123.77	118.30
1	D	850	ARG	NE-CZ-NH1	6.08	123.34	120.30
1	F	890	ASP	CB-CG-OD2	-6.08	112.83	118.30
1	E	1074	LYS	CB-CA-C	-6.08	98.25	110.40
1	C	141	ASP	CB-CG-OD1	-6.07	112.83	118.30
1	C	1070	ASP	CB-CG-OD2	6.07	123.76	118.30
1	E	141	ASP	CB-CG-OD1	-6.07	112.84	118.30
1	B	203	ASP	CB-CG-OD2	6.07	123.76	118.30
1	B	250	ARG	CB-CA-C	-6.07	98.27	110.40
1	A	141	ASP	CB-CG-OD1	-6.06	112.84	118.30
1	B	890	ASP	CB-CG-OD2	-6.06	112.85	118.30
1	F	250	ARG	CB-CA-C	-6.06	98.28	110.40
1	B	732	ARG	CG-CD-NE	-6.05	99.09	111.80
1	D	250	ARG	CB-CA-C	-6.05	98.30	110.40
1	E	1180	ASP	CB-CG-OD2	6.05	123.75	118.30
2	I	110	ILE	CG1-CB-CG2	6.05	124.71	111.40
2	K	110	ILE	CG1-CB-CG2	6.05	124.71	111.40
1	A	286	ARG	NE-CZ-NH2	6.05	123.32	120.30
1	D	732	ARG	CG-CD-NE	-6.05	99.10	111.80
1	D	296	MET	CA-CB-CG	-6.05	103.02	113.30
1	F	732	ARG	CG-CD-NE	-6.05	99.10	111.80
2	H	110	ILE	CG1-CB-CG2	6.05	124.70	111.40
2	L	110	ILE	CG1-CB-CG2	6.05	124.70	111.40
1	B	850	ARG	NE-CZ-NH1	6.04	123.32	120.30
1	F	125	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	C	560	ASP	CB-CG-OD1	6.04	123.74	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	684	PHE	N-CA-C	-6.04	94.70	111.00
2	G	110	ILE	CG1-CB-CG2	6.04	124.68	111.40
2	J	110	ILE	CG1-CB-CG2	6.04	124.68	111.40
1	C	1180	ASP	CB-CG-OD2	6.04	123.73	118.30
1	B	684	PHE	N-CA-C	-6.03	94.71	111.00
1	D	203	ASP	CB-CG-OD2	6.03	123.73	118.30
1	F	684	PHE	N-CA-C	-6.03	94.72	111.00
1	B	296	MET	CA-CB-CG	-6.03	103.05	113.30
1	F	3	VAL	CB-CA-C	-6.03	99.95	111.40
1	F	203	ASP	CB-CG-OD2	6.03	123.72	118.30
1	F	296	MET	CA-CB-CG	-6.03	103.05	113.30
1	D	978	GLU	CA-CB-CG	-6.03	100.14	113.40
1	D	965	LEU	CB-CG-CD2	-6.02	100.76	111.00
1	F	965	LEU	CB-CG-CD2	-6.02	100.76	111.00
1	A	560	ASP	CB-CG-OD1	6.02	123.72	118.30
1	B	887	GLY	N-CA-C	6.02	128.15	113.10
1	D	1013	VAL	CG1-CB-CG2	-6.02	101.26	110.90
1	E	286	ARG	NE-CZ-NH2	6.02	123.31	120.30
1	E	560	ASP	CB-CG-OD1	6.02	123.72	118.30
1	F	978	GLU	CA-CB-CG	-6.02	100.15	113.40
1	B	965	LEU	CB-CG-CD2	-6.02	100.77	111.00
1	B	978	GLU	CA-CB-CG	-6.02	100.16	113.40
1	E	196	LEU	CB-CG-CD1	-6.02	100.77	111.00
1	A	1180	ASP	CB-CG-OD2	6.02	123.72	118.30
1	C	196	LEU	CB-CG-CD1	-6.01	100.78	111.00
1	D	887	GLY	N-CA-C	6.01	128.14	113.10
1	F	887	GLY	N-CA-C	6.01	128.14	113.10
1	D	3	VAL	CB-CA-C	-6.01	99.98	111.40
1	B	1013	VAL	CG1-CB-CG2	-6.01	101.28	110.90
1	E	1068	ARG	NE-CZ-NH2	6.01	123.31	120.30
1	A	196	LEU	CB-CG-CD1	-6.01	100.78	111.00
1	B	3	VAL	CB-CA-C	-6.01	99.98	111.40
1	F	1013	VAL	CG1-CB-CG2	-6.01	101.29	110.90
1	E	199	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	A	199	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	C	1068	ARG	NE-CZ-NH2	6.00	123.30	120.30
1	C	940	GLU	C-N-CA	-6.00	109.70	122.30
1	D	74	GLY	N-CA-C	-6.00	98.10	113.10
1	F	850	ARG	NE-CZ-NH1	6.00	123.30	120.30
1	A	940	GLU	C-N-CA	-6.00	109.71	122.30
1	E	940	GLU	C-N-CA	-6.00	109.71	122.30
1	D	640	THR	CB-CA-C	-5.99	95.42	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	640	THR	CB-CA-C	-5.99	95.42	111.60
1	A	1122	ASP	CB-CG-OD2	5.99	123.69	118.30
1	B	74	GLY	N-CA-C	-5.99	98.13	113.10
1	B	640	THR	CB-CA-C	-5.99	95.44	111.60
1	C	471	ASP	CB-CG-OD2	5.99	123.69	118.30
1	A	672	GLN	N-CA-C	-5.98	94.85	111.00
1	C	286	ARG	NE-CZ-NH2	5.98	123.29	120.30
1	A	843	VAL	CB-CA-C	-5.98	100.04	111.40
1	C	672	GLN	N-CA-C	-5.98	94.85	111.00
1	C	843	VAL	CB-CA-C	-5.98	100.04	111.40
1	F	74	GLY	N-CA-C	-5.98	98.15	113.10
1	E	843	VAL	CB-CA-C	-5.98	100.05	111.40
2	I	454	ILE	CG1-CB-CG2	5.97	124.55	111.40
2	K	454	ILE	CG1-CB-CG2	5.97	124.55	111.40
1	E	672	GLN	N-CA-C	-5.97	94.87	111.00
2	H	454	ILE	CG1-CB-CG2	5.97	124.54	111.40
2	L	454	ILE	CG1-CB-CG2	5.97	124.54	111.40
1	C	283	VAL	CB-CA-C	-5.97	100.06	111.40
1	A	1068	ARG	NE-CZ-NH2	5.97	123.28	120.30
1	A	471	ASP	CB-CG-OD2	5.97	123.67	118.30
2	G	454	ILE	CG1-CB-CG2	5.97	124.53	111.40
2	J	454	ILE	CG1-CB-CG2	5.97	124.53	111.40
1	C	199	ARG	NE-CZ-NH2	-5.97	117.32	120.30
1	D	90	ARG	NE-CZ-NH1	-5.97	117.32	120.30
1	F	1399	ASP	CB-CG-OD2	5.96	123.67	118.30
1	A	283	VAL	CB-CA-C	-5.96	100.07	111.40
1	E	283	VAL	CB-CA-C	-5.96	100.08	111.40
1	E	471	ASP	CB-CG-OD2	5.96	123.66	118.30
1	C	1122	ASP	CB-CG-OD2	5.96	123.66	118.30
1	E	490	ASP	CB-CG-OD2	5.95	123.66	118.30
1	B	1399	ASP	CB-CG-OD2	5.94	123.64	118.30
1	D	1374	VAL	CB-CA-C	-5.93	100.12	111.40
1	B	956	LEU	CB-CG-CD2	-5.93	100.92	111.00
1	D	125	ARG	NE-CZ-NH1	5.93	123.27	120.30
1	F	956	LEU	CB-CG-CD2	-5.93	100.91	111.00
1	F	1374	VAL	CB-CA-C	-5.93	100.13	111.40
1	C	490	ASP	CB-CG-OD2	5.93	123.64	118.30
1	B	803	THR	CA-CB-CG2	-5.93	104.10	112.40
1	B	1374	VAL	CB-CA-C	-5.93	100.14	111.40
1	E	1122	ASP	CB-CG-OD2	5.93	123.63	118.30
1	F	803	THR	CA-CB-CG2	-5.92	104.11	112.40
1	A	490	ASP	CB-CG-OD2	5.92	123.63	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	956	LEU	CB-CG-CD2	-5.92	100.94	111.00
1	A	511	ILE	CB-CA-C	-5.91	99.79	111.60
1	B	125	ARG	NE-CZ-NH1	5.90	123.25	120.30
1	D	803	THR	CA-CB-CG2	-5.90	104.14	112.40
1	F	461	MET	CG-SD-CE	5.90	109.64	100.20
1	B	651	ASP	CB-CG-OD2	5.90	123.61	118.30
1	B	461	MET	CG-SD-CE	5.90	109.64	100.20
1	D	461	MET	CG-SD-CE	5.90	109.64	100.20
1	D	651	ASP	CB-CG-OD2	5.90	123.61	118.30
1	C	511	ILE	CB-CA-C	-5.89	99.81	111.60
1	E	511	ILE	CB-CA-C	-5.89	99.81	111.60
1	D	1399	ASP	CB-CG-OD2	5.89	123.60	118.30
1	E	193	PRO	N-CD-CG	-5.89	94.37	103.20
1	F	651	ASP	CB-CG-OD2	5.89	123.60	118.30
1	B	1003	ARG	NE-CZ-NH1	5.88	123.24	120.30
1	C	193	PRO	N-CD-CG	-5.88	94.38	103.20
1	C	980	LEU	CB-CA-C	-5.88	99.03	110.20
1	E	980	LEU	CB-CA-C	-5.88	99.03	110.20
1	B	782	ARG	N-CA-C	-5.87	95.14	111.00
1	A	980	LEU	CB-CA-C	-5.87	99.05	110.20
1	F	782	ARG	N-CA-C	-5.87	95.15	111.00
1	A	193	PRO	N-CD-CG	-5.87	94.40	103.20
1	B	1180	ASP	CB-CG-OD2	5.87	123.58	118.30
1	D	522	LEU	CA-CB-CG	5.87	128.80	115.30
1	C	354	ARG	CG-CD-NE	-5.87	99.48	111.80
1	D	782	ARG	N-CA-C	-5.86	95.17	111.00
1	E	850	ARG	CA-CB-CG	5.86	126.30	113.40
1	B	522	LEU	CA-CB-CG	5.86	128.78	115.30
1	C	831	LEU	CA-CB-CG	5.86	128.77	115.30
1	F	522	LEU	CA-CB-CG	5.86	128.77	115.30
1	A	850	ARG	CA-CB-CG	5.85	126.27	113.40
1	F	337	ASP	CB-CG-OD1	5.85	123.57	118.30
1	E	831	LEU	CA-CB-CG	5.85	128.76	115.30
1	F	125	ARG	NE-CZ-NH1	5.85	123.22	120.30
1	A	831	LEU	CA-CB-CG	5.85	128.75	115.30
1	F	564	ASP	CB-CG-OD2	5.85	123.56	118.30
1	A	354	ARG	CG-CD-NE	-5.85	99.52	111.80
1	D	1180	ASP	CB-CG-OD2	5.85	123.56	118.30
1	E	354	ARG	CG-CD-NE	-5.85	99.52	111.80
1	B	564	ASP	CB-CG-OD2	5.84	123.56	118.30
1	C	456	LEU	CB-CG-CD2	-5.84	101.07	111.00
1	F	1180	ASP	CB-CG-OD2	5.84	123.56	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	456	LEU	CB-CG-CD2	-5.84	101.07	111.00
1	C	850	ARG	CA-CB-CG	5.84	126.24	113.40
1	B	337	ASP	CB-CG-OD1	5.83	123.55	118.30
1	D	337	ASP	CB-CG-OD1	5.83	123.55	118.30
1	F	1003	ARG	NE-CZ-NH1	5.83	123.22	120.30
1	A	1294	ASP	CB-CG-OD2	5.83	123.54	118.30
1	D	564	ASP	CB-CG-OD2	5.82	123.54	118.30
1	E	456	LEU	CB-CG-CD2	-5.82	101.10	111.00
1	F	651	ASP	CB-CA-C	-5.82	98.76	110.40
1	A	42	ASP	CB-CG-OD2	5.82	123.53	118.30
1	D	651	ASP	CB-CA-C	-5.82	98.77	110.40
1	B	651	ASP	CB-CA-C	-5.81	98.77	110.40
1	E	311	ASP	CB-CG-OD1	5.81	123.53	118.30
1	D	1003	ARG	NE-CZ-NH1	5.80	123.20	120.30
1	E	42	ASP	CB-CG-OD2	5.80	123.52	118.30
1	E	50	VAL	CB-CA-C	-5.80	100.37	111.40
1	D	485	ILE	CG1-CB-CG2	-5.80	98.64	111.40
1	A	50	VAL	CB-CA-C	-5.80	100.39	111.40
1	B	485	ILE	CG1-CB-CG2	-5.79	98.65	111.40
1	C	42	ASP	CB-CG-OD2	5.79	123.51	118.30
1	C	1294	ASP	CB-CG-OD2	5.79	123.51	118.30
1	F	485	ILE	CG1-CB-CG2	-5.79	98.66	111.40
1	A	311	ASP	CB-CG-OD1	5.79	123.51	118.30
1	C	50	VAL	CB-CA-C	-5.79	100.40	111.40
1	E	1294	ASP	CB-CG-OD2	5.79	123.51	118.30
1	F	1407	ASP	CB-CA-C	-5.78	98.84	110.40
1	C	194	ASP	CB-CG-OD2	5.78	123.50	118.30
1	E	1306	VAL	CB-CA-C	-5.78	100.43	111.40
1	D	1407	ASP	CB-CA-C	-5.77	98.86	110.40
1	F	1396	ASP	CB-CG-OD2	5.77	123.50	118.30
1	D	79	PRO	N-CA-C	-5.77	97.09	112.10
2	I	481	GLU	N-CA-CB	-5.77	100.21	110.60
2	K	481	GLU	N-CA-CB	-5.77	100.21	110.60
1	A	1000	LEU	CB-CG-CD1	-5.77	101.19	111.00
2	G	481	GLU	N-CA-CB	-5.77	100.22	110.60
2	H	481	GLU	N-CA-CB	-5.77	100.22	110.60
2	J	481	GLU	N-CA-CB	-5.77	100.22	110.60
2	L	481	GLU	N-CA-CB	-5.77	100.22	110.60
1	C	1306	VAL	CB-CA-C	-5.77	100.44	111.40
1	A	1306	VAL	CB-CA-C	-5.76	100.45	111.40
1	B	1396	ASP	CB-CG-OD2	5.76	123.49	118.30
1	B	1407	ASP	CB-CA-C	-5.76	98.87	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1000	LEU	CB-CG-CD1	-5.76	101.20	111.00
1	B	79	PRO	N-CA-C	-5.76	97.13	112.10
1	F	79	PRO	N-CA-C	-5.76	97.13	112.10
1	E	1000	LEU	CB-CG-CD1	-5.75	101.22	111.00
1	A	194	ASP	CB-CG-OD2	5.75	123.47	118.30
1	E	1218	ASP	CB-CG-OD1	-5.75	113.13	118.30
1	D	714	SER	CB-CA-C	-5.74	99.19	110.10
1	E	1171	VAL	CA-CB-CG1	-5.74	102.28	110.90
1	A	746	ILE	CB-CA-C	-5.74	100.12	111.60
1	C	311	ASP	CB-CG-OD1	5.74	123.47	118.30
1	E	194	ASP	CB-CG-OD2	5.74	123.47	118.30
1	C	746	ILE	CB-CA-C	-5.74	100.12	111.60
1	E	746	ILE	CB-CA-C	-5.74	100.12	111.60
1	A	1171	VAL	CA-CB-CG1	-5.73	102.30	110.90
1	B	714	SER	CB-CA-C	-5.73	99.21	110.10
1	C	1218	ASP	CB-CG-OD1	-5.73	113.14	118.30
1	F	403	ASP	CB-CG-OD2	5.73	123.46	118.30
1	D	1396	ASP	CB-CG-OD2	5.73	123.45	118.30
1	F	714	SER	CB-CA-C	-5.73	99.22	110.10
1	C	1171	VAL	CA-CB-CG1	-5.72	102.32	110.90
1	E	368	GLU	N-CA-CB	5.72	120.90	110.60
1	A	337	ASP	C-N-CA	-5.72	110.29	122.30
1	F	1407	ASP	CB-CG-OD2	5.72	123.45	118.30
1	E	337	ASP	C-N-CA	-5.72	110.29	122.30
1	F	1064	ARG	NE-CZ-NH1	-5.71	117.44	120.30
1	A	1218	ASP	CB-CG-OD1	-5.71	113.16	118.30
1	C	368	GLU	N-CA-CB	5.71	120.88	110.60
1	A	368	GLU	N-CA-CB	5.71	120.88	110.60
1	B	1407	ASP	CB-CG-OD2	5.71	123.44	118.30
1	C	337	ASP	C-N-CA	-5.71	110.32	122.30
1	E	794	VAL	CB-CA-C	5.71	122.24	111.40
1	B	403	ASP	CB-CG-OD2	5.70	123.43	118.30
1	F	992	PRO	N-CD-CG	-5.70	94.65	103.20
1	E	1468	VAL	CB-CA-C	-5.70	100.57	111.40
1	A	1468	VAL	CB-CA-C	-5.70	100.58	111.40
1	C	1468	VAL	CB-CA-C	-5.70	100.58	111.40
1	E	577	GLY	N-CA-C	5.69	127.33	113.10
1	C	794	VAL	CB-CA-C	5.69	122.21	111.40
1	A	794	VAL	CB-CA-C	5.69	122.20	111.40
1	B	992	PRO	N-CD-CG	-5.68	94.68	103.20
1	A	577	GLY	N-CA-C	5.68	127.29	113.10
1	D	1407	ASP	CB-CG-OD2	5.68	123.41	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	992	PRO	N-CD-CG	-5.67	94.69	103.20
1	F	945	PRO	N-CD-CG	-5.67	94.69	103.20
1	C	577	GLY	N-CA-C	5.67	127.27	113.10
1	E	1212	ASP	CB-CG-OD2	5.66	123.39	118.30
1	C	339	ARG	NE-CZ-NH2	-5.66	117.47	120.30
1	B	945	PRO	N-CD-CG	-5.66	94.72	103.20
1	D	403	ASP	CB-CG-OD2	5.66	123.39	118.30
1	D	945	PRO	N-CD-CG	-5.65	94.72	103.20
1	B	385	LEU	CA-CB-CG	5.65	128.29	115.30
1	B	1064	ARG	NE-CZ-NH1	-5.65	117.48	120.30
1	F	385	LEU	CA-CB-CG	5.65	128.29	115.30
2	H	464	ILE	CB-CA-C	-5.64	100.31	111.60
2	L	464	ILE	CB-CA-C	-5.64	100.31	111.60
1	D	471	ASP	CB-CG-OD2	5.64	123.38	118.30
2	G	464	ILE	CB-CA-C	-5.64	100.32	111.60
2	J	464	ILE	CB-CA-C	-5.64	100.32	111.60
1	D	385	LEU	CA-CB-CG	5.64	128.27	115.30
1	F	471	ASP	CB-CG-OD2	5.64	123.38	118.30
1	A	1212	ASP	CB-CG-OD2	5.64	123.37	118.30
1	D	1064	ARG	NE-CZ-NH1	-5.63	117.48	120.30
2	I	464	ILE	CB-CA-C	-5.63	100.33	111.60
2	K	464	ILE	CB-CA-C	-5.63	100.33	111.60
1	B	471	ASP	CB-CG-OD2	5.62	123.36	118.30
1	E	339	ARG	NE-CZ-NH2	-5.62	117.49	120.30
1	C	1212	ASP	CB-CG-OD2	5.62	123.35	118.30
1	F	608	ASP	N-CA-CB	-5.62	100.49	110.60
1	B	608	ASP	N-CA-CB	-5.61	100.51	110.60
1	D	608	ASP	N-CA-CB	-5.60	100.52	110.60
1	A	339	ARG	NE-CZ-NH2	-5.60	117.50	120.30
1	A	182	MET	CG-SD-CE	-5.60	91.24	100.20
1	D	545	LEU	CA-CB-CG	-5.59	102.43	115.30
1	E	182	MET	CG-SD-CE	-5.59	91.25	100.20
1	E	863	LEU	CA-CB-CG	5.59	128.16	115.30
1	E	1183	LEU	CB-CG-CD1	-5.59	101.50	111.00
1	C	182	MET	CG-SD-CE	-5.59	91.26	100.20
1	D	940	GLU	C-N-CA	-5.59	110.56	122.30
1	A	863	LEU	CA-CB-CG	5.59	128.15	115.30
1	A	1183	LEU	CB-CG-CD1	-5.58	101.51	111.00
1	B	407	LYS	CD-CE-NZ	5.58	124.54	111.70
1	B	941	GLY	N-CA-C	5.58	127.06	113.10
1	B	940	GLU	C-N-CA	-5.58	110.58	122.30
1	C	863	LEU	CA-CB-CG	5.58	128.14	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	407	LYS	CD-CE-NZ	5.58	124.54	111.70
1	F	545	LEU	CA-CB-CG	-5.58	102.46	115.30
1	B	545	LEU	CA-CB-CG	-5.58	102.47	115.30
1	F	407	LYS	CD-CE-NZ	5.58	124.53	111.70
1	F	940	GLU	C-N-CA	-5.58	110.58	122.30
1	C	1	CYS	CA-CB-SG	-5.58	103.96	114.00
1	C	1183	LEU	CB-CG-CD1	-5.57	101.53	111.00
1	C	406	LEU	CB-CG-CD1	-5.57	101.54	111.00
1	D	941	GLY	N-CA-C	5.57	127.01	113.10
1	F	283	VAL	CB-CA-C	-5.57	100.83	111.40
2	H	139	PRO	N-CA-C	5.57	126.57	112.10
2	L	139	PRO	N-CA-C	5.57	126.57	112.10
2	I	139	PRO	N-CA-C	5.56	126.57	112.10
2	K	139	PRO	N-CA-C	5.56	126.57	112.10
1	A	1	CYS	CA-CB-SG	-5.56	103.99	114.00
1	E	1	CYS	CA-CB-SG	-5.56	103.99	114.00
1	F	941	GLY	N-CA-C	5.56	127.01	113.10
1	B	283	VAL	CB-CA-C	-5.56	100.84	111.40
1	F	745	ARG	NE-CZ-NH1	-5.56	117.52	120.30
2	G	478	VAL	CB-CA-C	-5.56	100.84	111.40
2	J	478	VAL	CB-CA-C	-5.56	100.84	111.40
1	A	406	LEU	CB-CG-CD1	-5.55	101.56	111.00
2	G	139	PRO	N-CA-C	5.55	126.53	112.10
2	J	139	PRO	N-CA-C	5.55	126.53	112.10
1	C	534	ASP	CB-CG-OD1	-5.55	113.31	118.30
1	D	283	VAL	CB-CA-C	-5.55	100.86	111.40
2	H	396	ILE	CB-CA-C	-5.55	100.50	111.60
2	L	396	ILE	CB-CA-C	-5.55	100.50	111.60
2	H	478	VAL	CB-CA-C	-5.55	100.86	111.40
2	L	478	VAL	CB-CA-C	-5.55	100.86	111.40
1	D	505	GLN	C-N-CA	-5.54	107.84	121.70
2	I	478	VAL	CB-CA-C	-5.54	100.86	111.40
2	K	478	VAL	CB-CA-C	-5.54	100.86	111.40
2	G	396	ILE	CB-CA-C	-5.54	100.52	111.60
2	I	396	ILE	CG1-CB-CG2	5.54	123.59	111.40
2	J	396	ILE	CB-CA-C	-5.54	100.52	111.60
2	K	396	ILE	CG1-CB-CG2	5.54	123.59	111.40
1	B	505	GLN	C-N-CA	-5.54	107.85	121.70
1	E	406	LEU	CB-CG-CD1	-5.54	101.59	111.00
1	F	505	GLN	C-N-CA	-5.54	107.86	121.70
1	D	745	ARG	NE-CZ-NH1	-5.53	117.53	120.30
2	I	396	ILE	CB-CA-C	-5.53	100.53	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	396	ILE	CB-CA-C	-5.53	100.53	111.60
1	E	214	ASN	CB-CA-C	-5.53	99.34	110.40
2	G	396	ILE	CG1-CB-CG2	5.53	123.57	111.40
2	H	396	ILE	CG1-CB-CG2	5.53	123.57	111.40
2	J	396	ILE	CG1-CB-CG2	5.53	123.57	111.40
2	L	396	ILE	CG1-CB-CG2	5.53	123.57	111.40
1	B	745	ARG	NE-CZ-NH1	-5.53	117.54	120.30
1	D	194	ASP	CB-CG-OD2	5.53	123.27	118.30
1	E	1108	CYS	CB-CA-C	5.53	121.45	110.40
1	A	214	ASN	CB-CA-C	-5.52	99.35	110.40
2	I	234	VAL	CB-CA-C	-5.52	100.91	111.40
2	K	234	VAL	CB-CA-C	-5.52	100.91	111.40
1	A	1108	CYS	CB-CA-C	5.52	121.44	110.40
1	C	214	ASN	CB-CA-C	-5.52	99.36	110.40
1	C	1108	CYS	CB-CA-C	5.52	121.43	110.40
1	E	534	ASP	CB-CG-OD1	-5.52	113.33	118.30
2	G	234	VAL	CB-CA-C	-5.51	100.92	111.40
2	J	234	VAL	CB-CA-C	-5.51	100.92	111.40
1	D	490	ASP	N-CA-CB	-5.51	100.68	110.60
1	D	838	VAL	CB-CA-C	-5.51	100.93	111.40
1	B	490	ASP	N-CA-CB	-5.51	100.69	110.60
1	F	490	ASP	N-CA-CB	-5.51	100.69	110.60
1	A	534	ASP	CB-CG-OD1	-5.51	113.34	118.30
1	C	1407	ASP	CB-CA-C	-5.50	99.39	110.40
1	B	194	ASP	CB-CG-OD2	5.50	123.25	118.30
1	B	624	THR	OG1-CB-CG2	-5.50	97.34	110.00
1	B	838	VAL	CB-CA-C	-5.50	100.95	111.40
1	D	441	ASP	CB-CG-OD2	5.50	123.25	118.30
1	B	298	LEU	CB-CG-CD1	-5.50	101.66	111.00
1	D	624	THR	OG1-CB-CG2	-5.50	97.36	110.00
1	E	1407	ASP	CB-CA-C	-5.50	99.41	110.40
1	F	838	VAL	CB-CA-C	-5.50	100.96	111.40
1	B	441	ASP	CB-CG-OD2	5.50	123.25	118.30
1	B	1187	LEU	CB-CG-CD1	-5.50	101.66	111.00
1	D	1212	ASP	CB-CG-OD2	5.50	123.25	118.30
1	F	624	THR	OG1-CB-CG2	-5.50	97.36	110.00
1	D	298	LEU	CB-CG-CD1	-5.49	101.66	111.00
2	H	234	VAL	CB-CA-C	-5.49	100.96	111.40
2	L	234	VAL	CB-CA-C	-5.49	100.96	111.40
1	F	1187	LEU	CB-CG-CD1	-5.49	101.66	111.00
1	A	1407	ASP	CB-CA-C	-5.49	99.42	110.40
1	D	1187	LEU	CB-CG-CD1	-5.49	101.67	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	441	ASP	CB-CG-OD2	5.49	123.24	118.30
1	F	298	LEU	CB-CG-CD1	-5.48	101.68	111.00
1	A	14	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	E	251	MET	CB-CG-SD	-5.48	95.97	112.40
1	F	194	ASP	CB-CG-OD2	5.48	123.23	118.30
1	A	251	MET	CB-CG-SD	-5.47	95.98	112.40
1	C	251	MET	CB-CG-SD	-5.47	95.99	112.40
1	F	456	LEU	CA-CB-CG	-5.47	102.72	115.30
1	D	863	LEU	CB-CA-C	5.47	120.59	110.20
1	B	1212	ASP	CB-CG-OD2	5.47	123.22	118.30
1	E	182	MET	CA-CB-CG	-5.47	104.01	113.30
1	E	934	GLN	CB-CA-C	-5.46	99.47	110.40
1	B	456	LEU	CA-CB-CG	-5.46	102.74	115.30
1	C	992	PRO	N-CD-CG	-5.46	95.01	103.20
1	C	182	MET	CA-CB-CG	-5.46	104.02	113.30
1	D	456	LEU	CA-CB-CG	-5.46	102.74	115.30
1	A	182	MET	CA-CB-CG	-5.46	104.02	113.30
1	A	650	LEU	CB-CG-CD1	-5.46	101.72	111.00
1	A	992	PRO	N-CD-CG	-5.46	95.01	103.20
1	F	1212	ASP	CB-CG-OD2	5.46	123.21	118.30
1	E	14	ARG	NE-CZ-NH2	-5.45	117.57	120.30
1	E	73	VAL	CB-CA-C	-5.45	101.04	111.40
1	A	73	VAL	CB-CA-C	-5.45	101.04	111.40
1	D	918	THR	N-CA-CB	-5.45	99.94	110.30
1	A	934	GLN	CB-CA-C	-5.45	99.50	110.40
2	G	323	ASP	CB-CG-OD1	5.45	123.21	118.30
2	J	323	ASP	CB-CG-OD1	5.45	123.21	118.30
1	C	934	GLN	CB-CA-C	-5.45	99.50	110.40
1	F	262	ASP	CB-CG-OD2	5.45	123.20	118.30
1	C	73	VAL	CB-CA-C	-5.45	101.05	111.40
1	E	650	LEU	CB-CG-CD1	-5.45	101.74	111.00
1	F	863	LEU	CB-CA-C	5.45	120.55	110.20
1	D	968	PRO	N-CD-CG	-5.44	95.03	103.20
1	C	650	LEU	CB-CG-CD1	-5.44	101.75	111.00
1	E	992	PRO	N-CD-CG	-5.44	95.04	103.20
1	B	863	LEU	CB-CA-C	5.44	120.54	110.20
1	B	918	THR	N-CA-CB	-5.44	99.97	110.30
1	B	968	PRO	N-CD-CG	-5.43	95.05	103.20
2	I	323	ASP	CB-CG-OD1	5.43	123.19	118.30
2	K	323	ASP	CB-CG-OD1	5.43	123.19	118.30
1	B	262	ASP	CB-CG-OD2	5.43	123.19	118.30
1	F	918	THR	N-CA-CB	-5.43	99.98	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	323	ASP	CB-CG-OD1	5.43	123.19	118.30
2	L	323	ASP	CB-CG-OD1	5.43	123.19	118.30
1	E	665	THR	N-CA-CB	-5.43	99.98	110.30
1	D	463	LEU	CA-CB-CG	-5.43	102.82	115.30
1	B	463	LEU	CA-CB-CG	-5.42	102.82	115.30
1	F	463	LEU	CA-CB-CG	-5.42	102.82	115.30
1	A	156	GLU	CA-CB-CG	5.42	125.33	113.40
1	C	1399	ASP	CB-CG-OD2	5.42	123.18	118.30
1	C	156	GLU	CA-CB-CG	5.42	125.33	113.40
2	H	397	LYS	C-N-CA	5.42	135.24	121.70
2	L	397	LYS	C-N-CA	5.42	135.24	121.70
1	A	1399	ASP	CB-CG-OD2	5.42	123.17	118.30
2	G	397	LYS	C-N-CA	5.41	135.23	121.70
2	J	397	LYS	C-N-CA	5.41	135.23	121.70
1	A	665	THR	N-CA-CB	-5.41	100.02	110.30
1	E	156	GLU	CA-CB-CG	5.41	125.30	113.40
1	F	968	PRO	N-CD-CG	-5.41	95.08	103.20
1	C	125	ARG	NE-CZ-NH2	-5.41	117.60	120.30
1	D	262	ASP	CB-CG-OD2	5.41	123.17	118.30
2	I	397	LYS	C-N-CA	5.41	135.21	121.70
2	K	397	LYS	C-N-CA	5.41	135.21	121.70
1	C	665	THR	N-CA-CB	-5.40	100.03	110.30
1	E	290	THR	CB-CA-C	-5.40	97.02	111.60
1	A	125	ARG	NE-CZ-NH2	-5.40	117.60	120.30
1	A	290	THR	CB-CA-C	-5.40	97.03	111.60
1	C	290	THR	CB-CA-C	-5.40	97.03	111.60
1	C	14	ARG	NE-CZ-NH2	-5.39	117.60	120.30
1	C	738	HIS	N-CA-C	5.39	125.55	111.00
1	F	658	LEU	CB-CG-CD2	-5.39	101.84	111.00
1	F	1183	LEU	CB-CG-CD1	-5.38	101.85	111.00
1	C	482	ASP	CB-CG-OD2	-5.38	113.46	118.30
1	B	658	LEU	CB-CG-CD2	-5.38	101.86	111.00
2	I	31	ILE	CG1-CB-CG2	5.38	123.23	111.40
2	K	31	ILE	CG1-CB-CG2	5.38	123.23	111.40
1	E	1399	ASP	CB-CG-OD2	5.38	123.14	118.30
1	A	738	HIS	N-CA-C	5.37	125.51	111.00
1	B	1183	LEU	CB-CG-CD1	-5.37	101.86	111.00
1	D	1183	LEU	CB-CG-CD1	-5.37	101.86	111.00
1	E	738	HIS	N-CA-C	5.37	125.51	111.00
2	H	31	ILE	CG1-CB-CG2	5.37	123.22	111.40
2	L	31	ILE	CG1-CB-CG2	5.37	123.22	111.40
1	D	658	LEU	CB-CG-CD2	-5.37	101.87	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	125	ARG	NE-CZ-NH2	-5.37	117.61	120.30
1	B	701	ASP	CB-CG-OD2	5.37	123.13	118.30
1	C	986	ASP	CB-CG-OD2	5.37	123.13	118.30
1	A	609	GLU	C-N-CA	-5.37	108.28	121.70
1	E	609	GLU	C-N-CA	-5.37	108.28	121.70
1	F	701	ASP	CB-CG-OD2	5.37	123.13	118.30
1	A	482	ASP	CB-CG-OD2	-5.36	113.47	118.30
1	A	1321	THR	OG1-CB-CG2	-5.36	97.68	110.00
1	E	986	ASP	CB-CG-OD2	5.36	123.12	118.30
1	C	609	GLU	C-N-CA	-5.36	108.31	121.70
1	E	1321	THR	OG1-CB-CG2	-5.36	97.68	110.00
2	G	31	ILE	CG1-CB-CG2	5.36	123.18	111.40
2	J	31	ILE	CG1-CB-CG2	5.36	123.18	111.40
1	D	1043	LEU	CA-CB-CG	-5.35	102.99	115.30
1	D	529	LEU	CB-CG-CD2	-5.35	101.91	111.00
1	E	3	VAL	N-CA-C	-5.35	96.56	111.00
1	F	671	ALA	N-CA-C	-5.35	96.56	111.00
1	A	986	ASP	CB-CG-OD2	5.35	123.11	118.30
1	B	1043	LEU	CA-CB-CG	-5.34	103.01	115.30
1	D	671	ALA	N-CA-C	-5.34	96.57	111.00
1	D	701	ASP	CB-CG-OD2	5.34	123.11	118.30
1	B	311	ASP	CB-CG-OD1	5.34	123.11	118.30
1	B	671	ALA	N-CA-C	-5.34	96.58	111.00
1	F	529	LEU	CB-CG-CD2	-5.34	101.92	111.00
1	A	3	VAL	N-CA-C	-5.34	96.58	111.00
1	C	1321	THR	OG1-CB-CG2	-5.34	97.72	110.00
1	E	69	ASN	CB-CA-C	-5.34	99.72	110.40
1	E	482	ASP	CB-CG-OD2	-5.34	113.49	118.30
1	B	529	LEU	CB-CG-CD2	-5.34	101.93	111.00
1	E	131	ILE	CG1-CB-CG2	-5.34	99.66	111.40
1	C	3	VAL	N-CA-C	-5.34	96.59	111.00
1	B	957	ARG	NE-CZ-NH1	-5.33	117.63	120.30
1	A	69	ASN	CB-CA-C	-5.33	99.74	110.40
1	A	131	ILE	CG1-CB-CG2	-5.33	99.67	111.40
1	B	650	LEU	CA-CB-CG	5.33	127.56	115.30
1	B	871	LEU	CB-CG-CD1	5.33	120.06	111.00
1	E	940	GLU	O-C-N	-5.33	114.14	123.20
1	F	311	ASP	CB-CG-OD1	5.33	123.10	118.30
1	D	871	LEU	CB-CG-CD1	5.33	120.06	111.00
1	C	940	GLU	O-C-N	-5.33	114.14	123.20
1	D	90	ARG	N-CA-CB	5.33	120.19	110.60
1	E	159	VAL	CB-CA-C	-5.33	101.28	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	650	LEU	CA-CB-CG	5.33	127.56	115.30
1	F	1043	LEU	CA-CB-CG	-5.33	103.05	115.30
1	C	69	ASN	CB-CA-C	-5.33	99.75	110.40
1	F	90	ARG	N-CA-CB	5.33	120.19	110.60
1	D	650	LEU	CA-CB-CG	5.32	127.54	115.30
1	D	311	ASP	CB-CG-OD1	5.32	123.09	118.30
1	B	90	ARG	N-CA-CB	5.32	120.17	110.60
1	C	159	VAL	CB-CA-C	-5.32	101.30	111.40
2	G	216	PRO	C-N-CA	-5.32	108.40	121.70
2	J	216	PRO	C-N-CA	-5.32	108.40	121.70
1	A	940	GLU	O-C-N	-5.32	114.16	123.20
1	C	131	ILE	CG1-CB-CG2	-5.32	99.71	111.40
1	A	159	VAL	CB-CA-C	-5.31	101.30	111.40
2	I	216	PRO	C-N-CA	-5.31	108.41	121.70
2	K	216	PRO	C-N-CA	-5.31	108.41	121.70
1	F	871	LEU	CB-CG-CD1	5.31	120.03	111.00
1	E	827	ASP	CB-CG-OD2	5.31	123.08	118.30
1	C	186	GLU	CA-CB-CG	-5.31	101.73	113.40
2	H	216	PRO	C-N-CA	-5.30	108.44	121.70
2	L	216	PRO	C-N-CA	-5.30	108.44	121.70
1	C	263	LEU	CB-CG-CD1	-5.30	101.99	111.00
1	C	827	ASP	CB-CG-OD2	5.30	123.07	118.30
1	E	448	ARG	CB-CA-C	5.30	121.00	110.40
1	A	186	GLU	CA-CB-CG	-5.30	101.75	113.40
1	F	948	LYS	CB-CG-CD	-5.30	97.83	111.60
1	A	448	ARG	CB-CA-C	5.29	120.99	110.40
1	D	948	LYS	CB-CG-CD	-5.29	97.84	111.60
1	A	263	LEU	CB-CG-CD1	-5.29	102.00	111.00
1	E	186	GLU	CA-CB-CG	-5.29	101.76	113.40
1	A	827	ASP	CB-CG-OD2	5.29	123.06	118.30
1	B	948	LYS	CB-CG-CD	-5.29	97.85	111.60
1	C	448	ARG	CB-CA-C	5.29	120.97	110.40
1	E	263	LEU	CB-CG-CD1	-5.29	102.02	111.00
1	F	957	ARG	NE-CZ-NH1	-5.28	117.66	120.30
1	F	827	ASP	CB-CG-OD2	5.27	123.05	118.30
1	A	64	HIS	N-CA-C	-5.27	96.77	111.00
2	H	65	ILE	CG1-CB-CG2	5.27	122.99	111.40
2	L	65	ILE	CG1-CB-CG2	5.27	122.99	111.40
1	D	943	GLN	CB-CA-C	-5.27	99.87	110.40
1	C	1259	LEU	CB-CG-CD2	5.26	119.95	111.00
1	E	64	HIS	N-CA-C	-5.26	96.78	111.00
1	C	64	HIS	N-CA-C	-5.26	96.79	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	1268	LEU	CB-CA-C	-5.26	100.20	110.20
1	B	943	GLN	CB-CA-C	-5.25	99.89	110.40
1	E	90	ARG	NE-CZ-NH1	-5.25	117.67	120.30
1	F	1074	LYS	CB-CA-C	-5.25	99.89	110.40
2	G	65	ILE	CG1-CB-CG2	5.25	122.96	111.40
2	J	65	ILE	CG1-CB-CG2	5.25	122.96	111.40
1	A	1259	LEU	CB-CG-CD2	5.25	119.93	111.00
1	D	1074	LYS	CB-CA-C	-5.25	99.90	110.40
1	F	943	GLN	CB-CA-C	-5.25	99.89	110.40
1	D	957	ARG	NE-CZ-NH1	-5.25	117.68	120.30
2	I	65	ILE	CG1-CB-CG2	5.25	122.95	111.40
2	K	65	ILE	CG1-CB-CG2	5.25	122.95	111.40
1	B	1074	LYS	CB-CA-C	-5.25	99.91	110.40
1	E	850	ARG	NE-CZ-NH1	5.25	122.92	120.30
1	B	1268	LEU	CB-CA-C	-5.24	100.24	110.20
1	E	1259	LEU	CB-CG-CD2	5.24	119.90	111.00
1	D	1268	LEU	CB-CA-C	-5.23	100.26	110.20
1	E	1147	ARG	NE-CZ-NH2	5.23	122.92	120.30
1	C	196	LEU	CB-CG-CD2	-5.23	102.11	111.00
1	C	1065	VAL	N-CA-CB	-5.23	100.00	111.50
1	C	1147	ARG	NE-CZ-NH2	5.23	122.91	120.30
1	A	196	LEU	CB-CG-CD2	-5.22	102.13	111.00
1	A	1096	SER	N-CA-CB	5.22	118.33	110.50
1	C	1096	SER	N-CA-CB	5.22	118.33	110.50
1	E	196	LEU	CB-CG-CD2	-5.22	102.13	111.00
1	E	1096	SER	N-CA-CB	5.22	118.33	110.50
1	E	1065	VAL	N-CA-CB	-5.22	100.02	111.50
1	A	1065	VAL	N-CA-CB	-5.21	100.03	111.50
1	D	663	ALA	N-CA-CB	-5.21	102.80	110.10
1	F	663	ALA	N-CA-CB	-5.21	102.81	110.10
1	C	918	THR	N-CA-CB	-5.21	100.41	110.30
1	B	663	ALA	N-CA-CB	-5.21	102.81	110.10
1	E	918	THR	N-CA-CB	-5.21	100.41	110.30
1	F	670	LEU	CB-CG-CD2	-5.21	102.15	111.00
1	F	1	CYS	CA-CB-SG	-5.20	104.63	114.00
1	F	1043	LEU	CB-CG-CD1	5.20	119.84	111.00
1	B	670	LEU	CB-CG-CD2	-5.20	102.16	111.00
1	A	918	THR	N-CA-CB	-5.20	100.42	110.30
1	C	296	MET	CA-CB-CG	-5.20	104.46	113.30
1	A	296	MET	CA-CB-CG	-5.20	104.47	113.30
1	E	284	MET	CG-SD-CE	-5.20	91.89	100.20
1	A	90	ARG	NE-CZ-NH1	-5.19	117.70	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1	CYS	CA-CB-SG	-5.19	104.65	114.00
1	A	850	ARG	NE-CZ-NH1	5.19	122.90	120.30
1	B	1043	LEU	CB-CG-CD1	5.19	119.83	111.00
1	D	1043	LEU	CB-CG-CD1	5.19	119.83	111.00
2	I	80	ALA	N-CA-CB	5.19	117.37	110.10
2	K	80	ALA	N-CA-CB	5.19	117.37	110.10
1	D	670	LEU	CB-CG-CD2	-5.19	102.18	111.00
1	E	296	MET	CA-CB-CG	-5.19	104.48	113.30
1	A	284	MET	CG-SD-CE	-5.19	91.90	100.20
1	E	658	LEU	CB-CG-CD1	5.18	119.81	111.00
2	G	80	ALA	N-CA-CB	5.18	117.36	110.10
2	J	80	ALA	N-CA-CB	5.18	117.36	110.10
1	E	400	LEU	CB-CG-CD1	-5.18	102.19	111.00
2	H	80	ALA	N-CA-CB	5.18	117.35	110.10
2	L	80	ALA	N-CA-CB	5.18	117.35	110.10
1	C	400	LEU	CB-CG-CD1	-5.18	102.20	111.00
1	D	1	CYS	CA-CB-SG	-5.18	104.68	114.00
1	A	400	LEU	CB-CG-CD1	-5.18	102.20	111.00
1	B	827	ASP	CB-CG-OD2	5.18	122.96	118.30
1	C	284	MET	CG-SD-CE	-5.18	91.92	100.20
1	A	881	LYS	CD-CE-NZ	5.17	123.60	111.70
1	D	279	THR	N-CA-CB	-5.17	100.47	110.30
1	A	658	LEU	CB-CG-CD1	5.17	119.79	111.00
1	B	279	THR	N-CA-CB	-5.17	100.47	110.30
1	E	881	LYS	CD-CE-NZ	5.17	123.59	111.70
1	A	1147	ARG	NE-CZ-NH2	5.17	122.89	120.30
1	C	658	LEU	CB-CG-CD1	5.17	119.79	111.00
1	E	922	LEU	CB-CG-CD2	5.17	119.79	111.00
1	C	881	LYS	CD-CE-NZ	5.17	123.58	111.70
1	A	922	LEU	CB-CG-CD2	5.17	119.78	111.00
1	D	827	ASP	CB-CG-OD2	5.16	122.94	118.30
1	E	588	ARG	NE-CZ-NH1	-5.16	117.72	120.30
1	B	914	ARG	NE-CZ-NH1	-5.15	117.72	120.30
1	A	1388	THR	N-CA-C	5.15	124.91	111.00
1	B	915	PHE	CA-CB-CG	-5.15	101.54	113.90
1	C	922	LEU	CB-CG-CD2	5.15	119.75	111.00
1	E	1388	THR	N-CA-C	5.15	124.91	111.00
1	F	279	THR	N-CA-CB	-5.15	100.52	110.30
1	F	914	ARG	NE-CZ-NH1	-5.15	117.73	120.30
1	F	915	PHE	CA-CB-CG	-5.15	101.54	113.90
1	A	651	ASP	CB-CA-C	-5.15	100.10	110.40
1	C	250	ARG	CB-CA-C	-5.15	100.11	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	345	MET	CA-CB-CG	-5.14	104.56	113.30
1	C	1388	THR	N-CA-C	5.14	124.89	111.00
1	D	914	ARG	NE-CZ-NH1	-5.14	117.73	120.30
1	F	1269	ARG	CG-CD-NE	-5.14	101.00	111.80
1	B	520	MET	CB-CG-SD	-5.14	96.97	112.40
1	D	915	PHE	CA-CB-CG	-5.14	101.56	113.90
1	D	520	MET	CB-CG-SD	-5.14	96.98	112.40
1	B	1269	ARG	CG-CD-NE	-5.14	101.00	111.80
1	C	651	ASP	CB-CA-C	-5.14	100.12	110.40
1	A	250	ARG	CB-CA-C	-5.14	100.12	110.40
1	E	651	ASP	CB-CA-C	-5.14	100.12	110.40
1	C	773	LEU	CA-CB-CG	-5.14	103.49	115.30
1	C	850	ARG	NE-CZ-NH1	5.14	122.87	120.30
1	F	1070	ASP	CB-CG-OD2	5.14	122.92	118.30
1	E	773	LEU	CA-CB-CG	-5.13	103.49	115.30
1	E	1118	CYS	CB-CA-C	5.13	120.67	110.40
1	E	1246	LEU	CA-CB-CG	-5.13	103.50	115.30
1	A	773	LEU	CA-CB-CG	-5.13	103.50	115.30
1	D	3	VAL	N-CA-C	-5.13	97.14	111.00
1	D	1070	ASP	CB-CG-OD2	5.13	122.92	118.30
1	E	250	ARG	CB-CA-C	-5.13	100.14	110.40
1	B	1070	ASP	CB-CG-OD2	5.13	122.92	118.30
1	D	1465	ARG	C-N-CA	-5.13	108.88	121.70
1	F	520	MET	CB-CG-SD	-5.13	97.01	112.40
1	F	861	GLY	N-CA-C	-5.13	100.28	113.10
1	E	345	MET	CA-CB-CG	-5.13	104.58	113.30
1	B	3	VAL	N-CA-C	-5.12	97.16	111.00
1	C	877	ARG	NE-CZ-NH1	-5.12	117.74	120.30
1	A	640	THR	CB-CA-C	-5.12	97.77	111.60
2	H	128	ASN	CA-CB-CG	-5.12	102.13	113.40
2	L	128	ASN	CA-CB-CG	-5.12	102.13	113.40
1	A	1246	LEU	CA-CB-CG	-5.12	103.52	115.30
1	B	1465	ARG	C-N-CA	-5.12	108.90	121.70
1	C	90	ARG	NE-CZ-NH1	-5.12	117.74	120.30
1	C	1246	LEU	CA-CB-CG	-5.12	103.52	115.30
1	D	1269	ARG	CG-CD-NE	-5.12	101.05	111.80
1	E	640	THR	CB-CA-C	-5.12	97.77	111.60
2	I	128	ASN	CA-CB-CG	-5.12	102.13	113.40
2	K	128	ASN	CA-CB-CG	-5.12	102.13	113.40
1	C	375	ASP	CB-CG-OD1	5.12	122.91	118.30
1	C	1222	LEU	CA-CB-CG	-5.12	103.53	115.30
1	F	3	VAL	N-CA-C	-5.12	97.18	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1222	LEU	CA-CB-CG	-5.12	103.53	115.30
1	C	345	MET	CA-CB-CG	-5.12	104.60	113.30
1	F	377	THR	N-CA-CB	-5.12	100.57	110.30
1	F	1465	ARG	C-N-CA	-5.12	108.90	121.70
1	C	37	ASP	CB-CG-OD2	5.12	122.91	118.30
1	A	1118	CYS	CB-CA-C	5.11	120.63	110.40
1	C	339	ARG	N-CA-CB	-5.11	101.40	110.60
1	C	640	THR	CB-CA-C	-5.11	97.79	111.60
1	E	384	ARG	NE-CZ-NH2	-5.11	117.74	120.30
2	G	128	ASN	CA-CB-CG	-5.11	102.15	113.40
2	J	128	ASN	CA-CB-CG	-5.11	102.15	113.40
1	E	339	ARG	N-CA-CB	-5.11	101.40	110.60
1	A	588	ARG	NE-CZ-NH1	-5.11	117.74	120.30
1	C	1118	CYS	CB-CA-C	5.11	120.62	110.40
1	E	1222	LEU	CA-CB-CG	-5.11	103.55	115.30
1	A	339	ARG	N-CA-CB	-5.11	101.41	110.60
1	B	861	GLY	N-CA-C	-5.11	100.34	113.10
1	C	588	ARG	NE-CZ-NH1	-5.11	117.75	120.30
1	B	377	THR	N-CA-CB	-5.10	100.60	110.30
1	C	1307	VAL	CB-CA-C	-5.10	101.71	111.40
1	D	377	THR	N-CA-CB	-5.10	100.61	110.30
1	A	375	ASP	CB-CG-OD1	5.10	122.89	118.30
1	E	375	ASP	CB-CG-OD1	5.10	122.89	118.30
2	I	188	TYR	CA-CB-CG	5.10	123.09	113.40
2	K	188	TYR	CA-CB-CG	5.10	123.09	113.40
1	A	386	GLY	N-CA-C	-5.10	100.36	113.10
1	E	877	ARG	NE-CZ-NH1	-5.10	117.75	120.30
1	A	1307	VAL	CB-CA-C	-5.10	101.72	111.40
1	E	386	GLY	N-CA-C	-5.10	100.36	113.10
1	A	384	ARG	NE-CZ-NH2	-5.09	117.75	120.30
1	A	877	ARG	NE-CZ-NH1	-5.09	117.75	120.30
1	C	386	GLY	N-CA-C	-5.09	100.37	113.10
1	D	861	GLY	N-CA-C	-5.09	100.37	113.10
2	G	188	TYR	CA-CB-CG	5.09	123.07	113.40
2	J	188	TYR	CA-CB-CG	5.09	123.07	113.40
2	H	188	TYR	CA-CB-CG	5.09	123.06	113.40
2	L	188	TYR	CA-CB-CG	5.09	123.06	113.40
1	E	1307	VAL	CB-CA-C	-5.08	101.75	111.40
1	A	37	ASP	CB-CG-OD2	5.08	122.87	118.30
1	A	641	SER	N-CA-C	-5.08	97.29	111.00
1	C	957	ARG	NE-CZ-NH2	5.08	122.84	120.30
1	E	37	ASP	CB-CG-OD2	5.08	122.87	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	641	SER	N-CA-C	-5.07	97.30	111.00
1	E	641	SER	N-CA-C	-5.07	97.31	111.00
1	E	661	VAL	N-CA-C	-5.07	97.32	111.00
1	A	785	GLY	N-CA-C	5.06	125.75	113.10
1	A	661	VAL	N-CA-C	-5.06	97.34	111.00
1	C	785	GLY	N-CA-C	5.06	125.74	113.10
1	E	825	LEU	CB-CG-CD2	5.06	119.60	111.00
1	C	661	VAL	N-CA-C	-5.06	97.35	111.00
1	C	738	HIS	CB-CA-C	-5.06	100.29	110.40
1	E	785	GLY	N-CA-C	5.05	125.74	113.10
1	F	1398	ASP	CB-CG-OD2	5.05	122.85	118.30
1	E	957	ARG	NE-CZ-NH2	5.05	122.83	120.30
1	A	738	HIS	CB-CA-C	-5.05	100.30	110.40
1	C	529	LEU	CA-CB-CG	-5.05	103.68	115.30
1	E	738	HIS	CB-CA-C	-5.05	100.30	110.40
1	A	825	LEU	CB-CG-CD2	5.05	119.58	111.00
1	E	1173	ARG	N-CA-C	-5.05	97.38	111.00
1	C	384	ARG	NE-CZ-NH2	-5.04	117.78	120.30
1	E	529	LEU	CA-CB-CG	-5.04	103.70	115.30
1	A	529	LEU	CA-CB-CG	-5.04	103.71	115.30
1	C	1173	ARG	N-CA-C	-5.04	97.39	111.00
1	C	395	LEU	CB-CG-CD1	-5.04	102.43	111.00
1	C	825	LEU	CB-CG-CD2	5.04	119.57	111.00
1	A	1173	ARG	N-CA-C	-5.04	97.39	111.00
1	F	1057	THR	CA-CB-CG2	-5.04	105.35	112.40
1	B	672	GLN	N-CA-C	-5.04	97.40	111.00
1	D	1398	ASP	CB-CG-OD2	5.04	122.83	118.30
1	B	1057	THR	CA-CB-CG2	-5.03	105.35	112.40
1	F	672	GLN	N-CA-C	-5.03	97.41	111.00
1	A	395	LEU	CB-CG-CD1	-5.03	102.44	111.00
1	A	485	ILE	CG1-CB-CG2	-5.03	100.33	111.40
1	E	485	ILE	CG1-CB-CG2	-5.03	100.33	111.40
1	D	1057	THR	CA-CB-CG2	-5.03	105.36	112.40
1	A	391	ILE	N-CA-C	-5.02	97.43	111.00
1	C	485	ILE	CG1-CB-CG2	-5.02	100.35	111.40
1	D	672	GLN	N-CA-C	-5.02	97.44	111.00
1	C	391	ILE	N-CA-C	-5.02	97.44	111.00
1	F	522	LEU	CB-CG-CD1	-5.02	102.47	111.00
1	A	957	ARG	NE-CZ-NH2	5.02	122.81	120.30
1	B	1398	ASP	CB-CG-OD2	5.02	122.82	118.30
1	E	391	ILE	N-CA-C	-5.02	97.45	111.00
1	E	395	LEU	CB-CG-CD1	-5.02	102.47	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	487	VAL	CB-CA-C	-5.02	101.87	111.40
1	E	487	VAL	CB-CA-C	-5.01	101.88	111.40
1	C	487	VAL	CB-CA-C	-5.01	101.88	111.40
1	C	1110	SER	N-CA-CB	-5.01	102.99	110.50
1	F	89	CYS	CA-CB-SG	-5.00	104.99	114.00
1	B	522	LEU	CB-CG-CD1	-5.00	102.50	111.00
1	F	1168	LEU	CB-CA-C	-5.00	100.70	110.20

All (3) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	915	PHE	CA
1	C	915	PHE	CA
1	E	915	PHE	CA

All (201) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1002	SER	Mainchain
1	A	1171	VAL	Peptide
1	A	325	GLU	Mainchain
1	B	1168	LEU	Mainchain
1	B	725	PHE	Mainchain
1	C	1002	SER	Mainchain
1	C	1171	VAL	Peptide
1	C	325	GLU	Mainchain
1	D	1168	LEU	Mainchain
1	D	725	PHE	Mainchain
1	E	1002	SER	Mainchain
1	E	1171	VAL	Peptide
1	E	325	GLU	Mainchain
1	F	1168	LEU	Mainchain
1	F	725	PHE	Mainchain
2	G	102	ARG	Sidechain
2	G	140	ARG	Sidechain
2	G	144	ARG	Sidechain
2	G	167	ARG	Sidechain
2	G	178	ARG	Sidechain
2	G	181	ARG	Sidechain
2	G	202	ARG	Sidechain
2	G	203	ARG	Sidechain
2	G	222	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	G	230	ARG	Sidechain
2	G	231	ARG	Sidechain
2	G	246	ARG	Sidechain
2	G	306	ARG	Sidechain
2	G	310	ARG	Sidechain
2	G	321	ARG	Sidechain
2	G	322	ARG	Sidechain
2	G	324	ARG	Sidechain
2	G	332	ARG	Sidechain
2	G	34	ARG	Sidechain
2	G	363	ARG	Sidechain
2	G	366	ARG	Sidechain
2	G	377	ARG	Sidechain
2	G	39	ARG	Sidechain
2	G	419	ARG	Sidechain
2	G	428	ARG	Sidechain
2	G	445	ARG	Sidechain
2	G	455	ARG	Sidechain
2	G	458	ARG	Sidechain
2	G	46	ARG	Sidechain
2	G	76	ARG	Sidechain
2	G	96	ARG	Sidechain
2	H	102	ARG	Sidechain
2	H	140	ARG	Sidechain
2	H	144	ARG	Sidechain
2	H	167	ARG	Sidechain
2	H	178	ARG	Sidechain
2	H	181	ARG	Sidechain
2	H	202	ARG	Sidechain
2	H	203	ARG	Sidechain
2	H	222	ARG	Sidechain
2	H	230	ARG	Sidechain
2	H	231	ARG	Sidechain
2	H	246	ARG	Sidechain
2	H	306	ARG	Sidechain
2	H	310	ARG	Sidechain
2	H	321	ARG	Sidechain
2	H	322	ARG	Sidechain
2	H	324	ARG	Sidechain
2	H	332	ARG	Sidechain
2	H	34	ARG	Sidechain
2	H	363	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	H	366	ARG	Sidechain
2	H	377	ARG	Sidechain
2	H	39	ARG	Sidechain
2	H	419	ARG	Sidechain
2	H	428	ARG	Sidechain
2	H	445	ARG	Sidechain
2	H	455	ARG	Sidechain
2	H	458	ARG	Sidechain
2	H	46	ARG	Sidechain
2	H	76	ARG	Sidechain
2	H	96	ARG	Sidechain
2	I	102	ARG	Sidechain
2	I	140	ARG	Sidechain
2	I	144	ARG	Sidechain
2	I	167	ARG	Sidechain
2	I	178	ARG	Sidechain
2	I	181	ARG	Sidechain
2	I	202	ARG	Sidechain
2	I	203	ARG	Sidechain
2	I	222	ARG	Sidechain
2	I	230	ARG	Sidechain
2	I	231	ARG	Sidechain
2	I	246	ARG	Sidechain
2	I	306	ARG	Sidechain
2	I	310	ARG	Sidechain
2	I	321	ARG	Sidechain
2	I	322	ARG	Sidechain
2	I	324	ARG	Sidechain
2	I	332	ARG	Sidechain
2	I	34	ARG	Sidechain
2	I	363	ARG	Sidechain
2	I	366	ARG	Sidechain
2	I	377	ARG	Sidechain
2	I	39	ARG	Sidechain
2	I	419	ARG	Sidechain
2	I	428	ARG	Sidechain
2	I	445	ARG	Sidechain
2	I	455	ARG	Sidechain
2	I	458	ARG	Sidechain
2	I	46	ARG	Sidechain
2	I	76	ARG	Sidechain
2	I	96	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	J	102	ARG	Sidechain
2	J	140	ARG	Sidechain
2	J	144	ARG	Sidechain
2	J	167	ARG	Sidechain
2	J	178	ARG	Sidechain
2	J	181	ARG	Sidechain
2	J	202	ARG	Sidechain
2	J	203	ARG	Sidechain
2	J	222	ARG	Sidechain
2	J	230	ARG	Sidechain
2	J	231	ARG	Sidechain
2	J	246	ARG	Sidechain
2	J	306	ARG	Sidechain
2	J	310	ARG	Sidechain
2	J	321	ARG	Sidechain
2	J	322	ARG	Sidechain
2	J	324	ARG	Sidechain
2	J	332	ARG	Sidechain
2	J	34	ARG	Sidechain
2	J	363	ARG	Sidechain
2	J	366	ARG	Sidechain
2	J	377	ARG	Sidechain
2	J	39	ARG	Sidechain
2	J	419	ARG	Sidechain
2	J	428	ARG	Sidechain
2	J	445	ARG	Sidechain
2	J	455	ARG	Sidechain
2	J	458	ARG	Sidechain
2	J	46	ARG	Sidechain
2	J	76	ARG	Sidechain
2	J	96	ARG	Sidechain
2	K	102	ARG	Sidechain
2	K	140	ARG	Sidechain
2	K	144	ARG	Sidechain
2	K	167	ARG	Sidechain
2	K	178	ARG	Sidechain
2	K	181	ARG	Sidechain
2	K	202	ARG	Sidechain
2	K	203	ARG	Sidechain
2	K	222	ARG	Sidechain
2	K	230	ARG	Sidechain
2	K	231	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	K	246	ARG	Sidechain
2	K	306	ARG	Sidechain
2	K	310	ARG	Sidechain
2	K	321	ARG	Sidechain
2	K	322	ARG	Sidechain
2	K	324	ARG	Sidechain
2	K	332	ARG	Sidechain
2	K	34	ARG	Sidechain
2	K	363	ARG	Sidechain
2	K	366	ARG	Sidechain
2	K	377	ARG	Sidechain
2	K	39	ARG	Sidechain
2	K	419	ARG	Sidechain
2	K	428	ARG	Sidechain
2	K	445	ARG	Sidechain
2	K	455	ARG	Sidechain
2	K	458	ARG	Sidechain
2	K	46	ARG	Sidechain
2	K	76	ARG	Sidechain
2	K	96	ARG	Sidechain
2	L	102	ARG	Sidechain
2	L	140	ARG	Sidechain
2	L	144	ARG	Sidechain
2	L	167	ARG	Sidechain
2	L	178	ARG	Sidechain
2	L	181	ARG	Sidechain
2	L	202	ARG	Sidechain
2	L	203	ARG	Sidechain
2	L	222	ARG	Sidechain
2	L	230	ARG	Sidechain
2	L	231	ARG	Sidechain
2	L	246	ARG	Sidechain
2	L	306	ARG	Sidechain
2	L	310	ARG	Sidechain
2	L	321	ARG	Sidechain
2	L	322	ARG	Sidechain
2	L	324	ARG	Sidechain
2	L	332	ARG	Sidechain
2	L	34	ARG	Sidechain
2	L	363	ARG	Sidechain
2	L	366	ARG	Sidechain
2	L	377	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	L	39	ARG	Sidechain
2	L	419	ARG	Sidechain
2	L	428	ARG	Sidechain
2	L	445	ARG	Sidechain
2	L	455	ARG	Sidechain
2	L	458	ARG	Sidechain
2	L	46	ARG	Sidechain
2	L	76	ARG	Sidechain
2	L	96	ARG	Sidechain

## 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	11337	0	11347	1764	0
1	B	11337	0	11350	1542	0
1	C	11337	0	11347	1760	0
1	D	11337	0	11350	1536	0
1	E	11337	0	11347	1772	0
1	F	11337	0	11350	1543	0
2	G	3468	0	3397	1086	0
2	H	3468	0	3397	1079	0
2	I	3468	0	3397	1089	0
2	J	3468	0	3399	1075	0
2	K	3468	0	3399	1080	0
2	L	3468	0	3399	1078	0
3	A	11	0	10	3	0
3	B	11	0	10	0	0
3	C	11	0	10	3	0
3	D	11	0	10	0	0
3	E	11	0	10	3	0
3	F	11	0	10	1	0
4	A	31	0	19	4	0
4	B	31	0	19	7	0
4	C	31	0	19	3	0
4	D	31	0	19	7	0
4	E	31	0	19	4	0
4	F	31	0	19	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	A	10	0	4	0	0
5	B	10	0	4	2	0
5	C	10	0	4	0	0
5	D	10	0	4	2	0
5	E	10	0	4	0	0
5	F	10	0	4	1	0
6	A	7	0	0	1	0
6	B	7	0	0	3	0
6	C	7	0	0	1	0
6	D	7	0	0	3	0
6	E	7	0	0	4	0
6	F	7	0	0	3	0
7	G	16	0	0	2	0
7	H	16	0	0	2	0
7	I	16	0	0	2	0
7	J	16	0	0	2	0
7	K	16	0	0	2	0
7	L	16	0	0	2	0
8	G	53	0	31	18	0
8	H	53	0	31	18	0
8	I	53	0	31	18	0
8	J	53	0	31	18	0
8	K	53	0	31	18	0
8	L	53	0	31	17	0
All	All	89598	0	88863	15409	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 86.

All (15409) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1263:HIS:CE1	1:D:900:GLY:CA	1.77	1.66
1:A:782:ARG:CG	2:J:53:PRO:HD2	1.19	1.65
1:E:782:ARG:CG	2:L:53:PRO:HD2	1.19	1.64
1:F:182:MET:CE	1:F:217:PRO:HB2	1.30	1.61
1:E:782:ARG:HG2	2:L:53:PRO:CD	1.14	1.61
1:A:902:ASN:HB2	1:C:1227:GLU:CG	1.13	1.61
1:C:782:ARG:CG	2:K:53:PRO:HD2	1.19	1.61
1:D:1263:HIS:CE1	1:F:900:GLY:CA	1.77	1.60
1:D:182:MET:HE3	1:D:217:PRO:CB	1.27	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:MET:HE3	1:A:217:PRO:CB	1.28	1.60
1:F:182:MET:HE3	1:F:217:PRO:CB	1.18	1.60
1:D:182:MET:CE	1:D:217:PRO:HB2	1.30	1.59
1:A:902:ASN:CB	1:C:1227:GLU:HG2	1.27	1.59
1:F:1449:ARG:HH11	1:F:1449:ARG:CB	0.97	1.58
1:A:1227:GLU:HG2	1:E:902:ASN:CB	1.27	1.58
1:B:900:GLY:CA	1:F:1263:HIS:CE1	1.77	1.57
1:A:782:ARG:HG2	2:J:53:PRO:CD	1.14	1.56
1:B:1449:ARG:HH11	1:B:1449:ARG:CB	0.97	1.56
1:D:1449:ARG:CB	1:D:1449:ARG:HH11	0.97	1.56
1:D:1263:HIS:CE1	1:F:900:GLY:HA3	1.07	1.55
1:B:1263:HIS:CE1	1:D:900:GLY:HA3	1.07	1.55
1:C:782:ARG:HG2	2:K:53:PRO:CD	1.14	1.55
1:B:900:GLY:HA3	1:F:1263:HIS:CE1	1.07	1.55
1:C:902:ASN:HB2	1:E:1227:GLU:CG	1.13	1.54
1:C:902:ASN:CB	1:E:1227:GLU:HG2	1.27	1.54
1:C:182:MET:HE3	1:C:217:PRO:CB	1.33	1.54
1:B:182:MET:CE	1:B:217:PRO:HB2	1.30	1.54
1:A:1227:GLU:CG	1:E:902:ASN:HB2	1.13	1.54
1:E:182:MET:HE3	1:E:217:PRO:CB	1.34	1.53
1:A:1227:GLU:CG	1:E:902:ASN:CB	1.80	1.53
1:B:182:MET:HE3	1:B:217:PRO:CB	1.29	1.52
1:A:1438:ARG:CG	2:L:376:GLY:HA2	1.24	1.52
1:A:1227:GLU:CD	1:E:902:ASN:HB3	1.28	1.51
1:E:1449:ARG:NH1	1:E:1449:ARG:HB2	1.18	1.48
1:C:1438:ARG:CG	2:J:376:GLY:CA	1.84	1.47
1:D:1289:MET:SD	1:D:1289:MET:CE	2.02	1.47
1:F:1289:MET:CE	1:F:1289:MET:SD	2.02	1.47
1:C:182:MET:CE	1:C:217:PRO:HB2	1.45	1.46
1:C:1438:ARG:CG	2:J:376:GLY:HA2	1.24	1.46
1:F:782:ARG:CG	2:I:53:PRO:HD2	1.23	1.46
1:A:182:MET:CE	1:A:217:PRO:HB2	1.45	1.46
1:B:1289:MET:CE	1:B:1289:MET:SD	2.02	1.46
1:C:902:ASN:HB3	1:E:1227:GLU:CD	1.28	1.45
1:D:782:ARG:CG	2:H:53:PRO:HD2	1.23	1.45
1:A:1449:ARG:HB2	1:A:1449:ARG:NH1	1.18	1.45
1:A:902:ASN:HB3	1:C:1227:GLU:CD	1.28	1.44
1:E:522:LEU:HD21	1:E:705:LEU:CD2	1.48	1.44
1:A:902:ASN:CB	1:C:1227:GLU:CG	1.80	1.44
1:A:1449:ARG:CB	1:A:1449:ARG:HH11	1.31	1.44
1:E:1449:ARG:HH11	1:E:1449:ARG:CB	1.31	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:902:ASN:CB	1:E:1227:GLU:CG	1.80	1.43
1:C:522:LEU:HD21	1:C:705:LEU:CD2	1.48	1.43
1:A:522:LEU:HD21	1:A:705:LEU:CD2	1.48	1.42
1:C:1449:ARG:NH1	1:C:1449:ARG:HB2	1.18	1.42
1:C:1449:ARG:HH11	1:C:1449:ARG:CB	1.31	1.42
1:A:253:HIS:ND1	1:A:254:PRO:HD2	1.17	1.42
1:A:782:ARG:CG	2:J:52:VAL:HA	1.27	1.41
1:E:182:MET:CE	1:E:217:PRO:HB2	1.45	1.41
1:F:782:ARG:HG2	2:I:53:PRO:CD	0.94	1.41
1:B:782:ARG:CG	2:G:53:PRO:HD2	1.23	1.41
1:E:253:HIS:ND1	1:E:254:PRO:HD2	1.17	1.41
1:A:825:LEU:CD1	1:A:1186:ARG:HH12	1.31	1.41
1:E:1438:ARG:CG	2:K:376:GLY:CA	1.84	1.41
1:E:825:LEU:CD1	1:E:1186:ARG:HH12	1.31	1.41
1:D:782:ARG:HG2	2:H:53:PRO:CD	0.93	1.40
1:C:825:LEU:CD1	1:C:1186:ARG:HH12	1.31	1.40
1:C:900:GLY:HA3	1:E:1263:HIS:NE2	1.35	1.40
1:C:782:ARG:HG3	2:K:52:VAL:CA	1.09	1.40
1:C:253:HIS:ND1	1:C:254:PRO:HD2	1.17	1.40
1:B:782:ARG:HG2	2:G:53:PRO:CD	0.94	1.39
1:A:900:GLY:HA3	1:C:1263:HIS:NE2	1.35	1.39
1:A:1438:ARG:CG	2:L:376:GLY:CA	1.84	1.39
1:E:1438:ARG:CG	2:K:376:GLY:HA2	1.24	1.39
1:E:782:ARG:HG3	2:L:52:VAL:CA	1.09	1.39
1:C:825:LEU:HD13	1:C:1186:ARG:NH1	1.35	1.38
1:E:782:ARG:CG	2:L:52:VAL:HA	1.27	1.38
1:A:1263:HIS:NE2	1:E:900:GLY:HA3	1.35	1.38
1:D:182:MET:CE	1:D:217:PRO:CB	1.89	1.38
1:E:505:GLN:NE2	1:E:1001:VAL:H	1.23	1.37
1:A:505:GLN:NE2	1:A:1001:VAL:H	1.23	1.37
1:C:505:GLN:NE2	1:C:1001:VAL:H	1.23	1.36
1:A:825:LEU:HD13	1:A:1186:ARG:NH1	1.35	1.36
1:E:825:LEU:HD13	1:E:1186:ARG:NH1	1.35	1.35
1:A:782:ARG:HG3	2:J:52:VAL:CA	1.09	1.35
1:F:182:MET:CE	1:F:217:PRO:CB	1.89	1.34
1:E:782:ARG:CG	2:L:52:VAL:CA	1.86	1.34
1:F:777:GLY:HA2	2:I:52:VAL:CG1	1.58	1.34
1:F:1104:MET:O	2:I:54:PHE:HZ	1.09	1.34
1:F:253:HIS:CG	1:F:254:PRO:HD2	1.62	1.33
1:B:253:HIS:CG	1:B:254:PRO:HD2	1.62	1.33
1:D:253:HIS:CG	1:D:254:PRO:HD2	1.62	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:430:VAL:HG13	1:D:554:GLU:CB	1.58	1.33
1:A:290:THR:CG2	1:A:292:PRO:HD2	1.58	1.33
1:B:1104:MET:O	2:G:54:PHE:HZ	1.09	1.33
1:C:290:THR:CG2	1:C:292:PRO:HD2	1.58	1.33
1:B:182:MET:CE	1:B:217:PRO:CB	1.89	1.32
1:B:777:GLY:HA2	2:G:52:VAL:CG1	1.58	1.32
1:A:782:ARG:HG3	2:J:52:VAL:C	1.49	1.32
1:F:430:VAL:HG13	1:F:554:GLU:CB	1.59	1.32
1:B:900:GLY:O	1:F:1227:GLU:C	1.68	1.32
1:F:782:ARG:C	2:I:57:VAL:HG23	1.50	1.31
1:B:782:ARG:C	2:G:57:VAL:HG23	1.50	1.31
1:C:782:ARG:HG3	2:K:52:VAL:C	1.49	1.31
1:D:777:GLY:HA2	2:H:52:VAL:CG1	1.58	1.31
1:E:1104:MET:O	2:L:54:PHE:HZ	1.10	1.31
1:E:290:THR:CG2	1:E:292:PRO:HD2	1.58	1.31
1:B:430:VAL:HG13	1:B:554:GLU:CB	1.59	1.31
1:E:780:ARG:NH1	2:L:50:CYS:SG	2.04	1.30
1:C:1438:ARG:CB	2:J:376:GLY:N	1.75	1.30
1:D:782:ARG:C	2:H:57:VAL:HG23	1.50	1.30
1:B:780:ARG:NH1	2:G:50:CYS:SG	2.04	1.30
1:B:825:LEU:HD13	1:B:1186:ARG:NH1	1.46	1.30
1:C:780:ARG:NH1	2:K:50:CYS:SG	2.04	1.30
1:D:780:ARG:NH1	2:H:50:CYS:SG	2.04	1.30
1:C:253:HIS:ND1	1:C:254:PRO:CD	1.94	1.30
1:E:782:ARG:HG3	2:L:52:VAL:C	1.49	1.29
1:A:253:HIS:ND1	1:A:254:PRO:CD	1.94	1.29
1:B:1227:GLU:C	1:D:900:GLY:O	1.68	1.29
1:D:1263:HIS:NE2	1:F:900:GLY:HA3	1.48	1.29
1:B:182:MET:HE3	1:B:217:PRO:CA	1.63	1.29
1:A:1438:ARG:CB	2:L:376:GLY:N	1.75	1.29
1:B:782:ARG:CZ	2:G:51:GLY:HA2	1.08	1.29
1:A:780:ARG:NH1	2:J:50:CYS:SG	2.04	1.29
1:C:253:HIS:CG	1:C:254:PRO:HD2	1.67	1.29
1:B:1263:HIS:NE2	1:D:900:GLY:HA3	1.48	1.29
1:F:825:LEU:CD1	1:F:1186:ARG:HH12	1.46	1.29
1:B:1263:HIS:HE1	1:D:900:GLY:N	1.30	1.29
1:B:900:GLY:N	1:F:1263:HIS:HE1	1.30	1.29
1:E:253:HIS:CG	1:E:254:PRO:HD2	1.67	1.29
1:A:253:HIS:CG	1:A:254:PRO:HD2	1.67	1.28
1:C:1104:MET:O	2:K:54:PHE:HZ	1.10	1.28
1:A:1438:ARG:HG3	2:L:376:GLY:CA	1.52	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:825:LEU:HD13	1:D:1186:ARG:NH1	1.46	1.28
1:D:1227:GLU:C	1:F:900:GLY:O	1.68	1.28
1:E:253:HIS:ND1	1:E:254:PRO:CD	1.94	1.28
1:D:825:LEU:CD1	1:D:1186:ARG:HH12	1.46	1.28
1:A:900:GLY:CA	1:C:1263:HIS:NE2	1.96	1.28
1:D:1263:HIS:HE1	1:F:900:GLY:N	1.30	1.28
1:D:1104:MET:O	2:H:54:PHE:HZ	1.09	1.28
1:B:825:LEU:CD1	1:B:1186:ARG:HH12	1.46	1.27
1:F:780:ARG:NH1	2:I:50:CYS:SG	2.04	1.27
1:C:900:GLY:CA	1:E:1263:HIS:NE2	1.96	1.27
1:F:825:LEU:HD13	1:F:1186:ARG:NH1	1.46	1.27
1:A:902:ASN:CB	1:C:1227:GLU:CD	1.93	1.27
1:D:182:MET:HE3	1:D:217:PRO:CA	1.63	1.27
1:A:1263:HIS:CE1	1:E:900:GLY:CA	2.17	1.27
1:C:430:VAL:HG13	1:C:554:GLU:CB	1.64	1.27
1:C:875:MET:HE1	1:C:1139:PHE:CE2	1.68	1.27
1:A:430:VAL:HG13	1:A:554:GLU:CB	1.64	1.27
1:F:182:MET:HE3	1:F:217:PRO:CA	1.65	1.26
1:F:782:ARG:HB3	2:I:56:GLN:NE2	1.50	1.26
1:A:1104:MET:O	2:J:54:PHE:HZ	1.10	1.26
1:E:782:ARG:HB3	2:L:56:GLN:NE2	1.49	1.26
1:A:900:GLY:CA	1:C:1263:HIS:CE1	2.17	1.26
1:A:1263:HIS:NE2	1:E:900:GLY:CA	1.96	1.26
1:E:430:VAL:HG13	1:E:554:GLU:CB	1.64	1.26
1:C:777:GLY:HA2	2:K:52:VAL:CG1	1.65	1.26
1:F:1449:ARG:NH1	1:F:1449:ARG:HB2	0.93	1.26
1:C:782:ARG:CG	2:K:52:VAL:CA	1.86	1.26
1:C:782:ARG:HB3	2:K:56:GLN:NE2	1.49	1.26
1:B:729:GLY:O	1:B:748:GLY:HA3	1.31	1.26
1:C:1438:ARG:HG3	2:J:376:GLY:CA	1.52	1.26
1:D:782:ARG:HB3	2:H:56:GLN:NE2	1.50	1.26
1:D:729:GLY:O	1:D:748:GLY:HA3	1.31	1.26
1:C:900:GLY:CA	1:E:1263:HIS:CE1	2.17	1.26
1:D:1449:ARG:NH1	1:D:1449:ARG:HB2	0.93	1.25
1:A:777:GLY:HA2	2:J:52:VAL:CG1	1.65	1.25
1:A:782:ARG:HB3	2:J:56:GLN:NE2	1.49	1.25
1:B:900:GLY:HA3	1:F:1263:HIS:NE2	1.48	1.25
1:F:783:LYS:CA	2:I:57:VAL:CG2	2.15	1.25
1:F:729:GLY:O	1:F:748:GLY:HA3	1.31	1.25
1:A:375:ASP:OD2	1:A:377:THR:HB	1.35	1.25
1:B:1228:LYS:N	1:D:900:GLY:O	1.71	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:777:GLY:HA2	2:L:52:VAL:CG1	1.65	1.24
1:E:1438:ARG:HG3	2:K:376:GLY:CA	1.52	1.24
1:C:902:ASN:CB	1:E:1227:GLU:CD	1.93	1.24
1:B:783:LYS:CA	2:G:57:VAL:CG2	2.15	1.24
1:B:1449:ARG:HB2	1:B:1449:ARG:NH1	0.93	1.24
1:E:375:ASP:OD2	1:E:377:THR:HB	1.35	1.24
1:D:783:LYS:CA	2:H:57:VAL:CG2	2.15	1.23
1:F:452:GLN:HE21	1:F:764:THR:CG2	1.51	1.23
1:B:900:GLY:O	1:F:1228:LYS:N	1.71	1.23
1:B:452:GLN:HE21	1:B:764:THR:CG2	1.51	1.23
1:E:875:MET:CE	1:E:1139:PHE:CE2	2.22	1.23
1:D:1228:LYS:N	1:F:900:GLY:O	1.70	1.23
1:D:782:ARG:CZ	2:H:51:GLY:HA2	1.08	1.23
1:B:782:ARG:HB3	2:G:56:GLN:NE2	1.50	1.22
1:A:875:MET:CE	1:A:1139:PHE:CE2	2.22	1.22
1:D:452:GLN:HE21	1:D:764:THR:CG2	1.51	1.22
1:C:782:ARG:CG	2:K:52:VAL:HA	1.27	1.22
1:F:783:LYS:HA	2:I:57:VAL:CG2	1.69	1.21
1:F:781:PHE:C	2:I:52:VAL:HB	1.38	1.21
1:A:1227:GLU:CD	1:E:902:ASN:CB	1.93	1.21
1:F:782:ARG:CZ	2:I:51:GLY:HA2	1.08	1.21
1:D:1047:MET:HG2	1:D:1186:ARG:CZ	1.69	1.21
1:C:875:MET:CE	1:C:1139:PHE:CE2	2.22	1.21
1:C:375:ASP:OD2	1:C:377:THR:HB	1.35	1.21
1:F:746:ILE:CG2	1:F:1182:ASP:H	1.54	1.20
1:E:875:MET:HE1	1:E:1139:PHE:CE2	1.75	1.20
1:A:875:MET:HE1	1:A:1139:PHE:CE2	1.76	1.20
2:H:259:VAL:HG21	2:H:264:TYR:HB2	1.21	1.20
1:E:782:ARG:CD	2:L:53:PRO:CD	2.20	1.20
1:B:746:ILE:CG2	1:B:1182:ASP:H	1.54	1.20
1:B:1047:MET:HG2	1:B:1186:ARG:CZ	1.69	1.20
1:F:1047:MET:HG2	1:F:1186:ARG:CZ	1.69	1.20
1:F:782:ARG:NH2	2:I:51:GLY:C	1.88	1.20
1:E:1438:ARG:CB	2:K:376:GLY:N	1.75	1.20
1:A:782:ARG:C	2:J:57:VAL:HG23	1.62	1.20
1:C:782:ARG:CD	2:K:53:PRO:CD	2.20	1.20
1:B:783:LYS:HA	2:G:57:VAL:CG2	1.69	1.20
2:G:152:VAL:HG13	2:G:175:VAL:HA	1.24	1.19
2:K:259:VAL:HG21	2:K:264:TYR:HB2	1.21	1.19
1:C:59:VAL:HG21	1:C:105:TYR:CD2	1.77	1.19
1:A:59:VAL:HG21	1:A:105:TYR:CD2	1.77	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:782:ARG:C	2:K:57:VAL:HG23	1.62	1.19
1:D:1047:MET:SD	1:D:1186:ARG:NH2	2.16	1.19
1:E:782:ARG:C	2:L:57:VAL:HG23	1.62	1.18
1:B:1047:MET:SD	1:B:1186:ARG:NH2	2.16	1.18
1:D:783:LYS:HA	2:H:57:VAL:CG2	1.69	1.18
1:D:253:HIS:ND1	1:D:254:PRO:HD2	1.57	1.18
1:D:746:ILE:CG2	1:D:1182:ASP:H	1.54	1.18
1:A:782:ARG:CD	2:J:53:PRO:CD	2.20	1.18
1:A:783:LYS:CA	2:J:57:VAL:HG22	1.64	1.17
1:C:900:GLY:N	1:E:1263:HIS:CE1	2.12	1.17
1:E:59:VAL:HG21	1:E:105:TYR:CD2	1.77	1.17
1:E:515:ARG:HD2	1:E:1367:TYR:CE1	1.80	1.17
2:K:244:LYS:HD2	2:K:404:GLU:HB3	1.26	1.17
1:F:253:HIS:ND1	1:F:254:PRO:HD2	1.57	1.17
1:E:1111:ASN:OD1	1:E:1119:VAL:HG23	1.44	1.17
1:F:783:LYS:N	2:I:57:VAL:HG23	1.59	1.17
1:D:783:LYS:CA	2:H:57:VAL:HG22	1.60	1.17
1:B:253:HIS:ND1	1:B:254:PRO:HD2	1.57	1.17
1:A:900:GLY:N	1:C:1263:HIS:CE1	2.13	1.17
1:B:781:PHE:C	2:G:52:VAL:HB	1.38	1.17
1:B:1401:LEU:O	1:B:1401:LEU:HD12	1.45	1.17
1:A:1263:HIS:CE1	1:E:900:GLY:N	2.13	1.16
1:B:1104:MET:O	2:G:54:PHE:CZ	1.97	1.16
1:F:1047:MET:SD	1:F:1186:ARG:NH2	2.16	1.16
1:C:515:ARG:HD2	1:C:1367:TYR:CE1	1.80	1.16
1:C:746:ILE:CG2	1:C:1182:ASP:H	1.58	1.16
1:A:1104:MET:O	2:J:54:PHE:CZ	1.98	1.16
2:J:319:LEU:HD11	2:J:369:LEU:HD21	1.26	1.16
1:D:1111:ASN:OD1	1:D:1119:VAL:HG23	1.45	1.16
1:F:1401:LEU:O	1:F:1401:LEU:HD12	1.45	1.16
2:J:259:VAL:HG21	2:J:264:TYR:HB2	1.21	1.16
1:F:1104:MET:O	2:I:54:PHE:CZ	1.97	1.16
1:D:783:LYS:N	2:H:57:VAL:HG23	1.59	1.16
1:E:825:LEU:CD1	1:E:1186:ARG:NH1	1.98	1.16
2:J:244:LYS:HD2	2:J:404:GLU:HB3	1.26	1.16
1:E:1104:MET:O	2:L:54:PHE:CZ	1.98	1.16
1:C:783:LYS:CA	2:K:57:VAL:HG22	1.64	1.16
1:A:746:ILE:CG2	1:A:1182:ASP:H	1.58	1.16
1:E:746:ILE:CG2	1:E:1182:ASP:H	1.58	1.16
1:B:1111:ASN:OD1	1:B:1119:VAL:HG23	1.45	1.16
2:I:319:LEU:HD11	2:I:369:LEU:HD21	1.26	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:515:ARG:HD2	1:A:1367:TYR:CE1	1.80	1.16
1:E:782:ARG:CG	2:L:53:PRO:CD	1.88	1.15
1:E:783:LYS:CA	2:L:57:VAL:HG22	1.64	1.15
1:D:1401:LEU:O	1:D:1401:LEU:HD12	1.45	1.15
1:A:782:ARG:CG	2:J:52:VAL:CA	1.86	1.15
1:D:1104:MET:O	2:H:54:PHE:CZ	1.97	1.15
2:K:152:VAL:HG13	2:K:175:VAL:HA	1.24	1.15
1:E:838:VAL:HG13	1:E:839:PRO:HD2	1.23	1.15
2:H:319:LEU:HD11	2:H:369:LEU:HD21	1.26	1.15
1:E:1212:ASP:O	1:E:1216:VAL:HG23	1.47	1.15
1:B:783:LYS:CA	2:G:57:VAL:HG22	1.60	1.15
1:C:182:MET:CE	1:C:217:PRO:CB	2.13	1.15
2:K:319:LEU:HD11	2:K:369:LEU:HD21	1.26	1.15
1:C:515:ARG:CD	1:C:1367:TYR:CE1	2.30	1.15
2:G:244:LYS:HD2	2:G:404:GLU:HB3	1.26	1.15
1:E:778:PHE:CE2	1:E:1039:LYS:HD2	1.80	1.15
1:C:778:PHE:CE2	1:C:1039:LYS:HD2	1.80	1.15
1:C:1104:MET:O	2:K:54:PHE:CZ	1.98	1.15
1:C:182:MET:HE3	1:C:217:PRO:CA	1.77	1.15
1:A:1111:ASN:OD1	1:A:1119:VAL:HG23	1.44	1.15
2:H:244:LYS:HD2	2:H:404:GLU:HB3	1.26	1.15
2:I:186:LEU:HD23	2:I:195:LEU:HD21	1.17	1.15
2:J:152:VAL:HG13	2:J:175:VAL:HA	1.24	1.15
1:F:777:GLY:HA2	2:I:52:VAL:HG13	1.22	1.14
2:I:259:VAL:HG21	2:I:264:TYR:HB2	1.21	1.14
1:F:782:ARG:CD	2:I:53:PRO:CD	2.25	1.14
1:D:782:ARG:CD	2:H:53:PRO:CD	2.25	1.14
1:B:290:THR:HG23	1:B:292:PRO:HD2	1.27	1.14
1:A:1212:ASP:O	1:A:1216:VAL:HG23	1.47	1.14
1:D:999:LYS:HG3	1:D:1022:LEU:HD23	1.19	1.14
1:A:778:PHE:CE2	1:A:1039:LYS:HD2	1.80	1.14
2:H:371:VAL:HG23	2:H:383:ILE:HG23	1.28	1.14
2:J:371:VAL:HG23	2:J:383:ILE:HG23	1.28	1.14
2:L:53:PRO:HG2	2:L:56:GLN:HG2	1.18	1.14
1:E:783:LYS:CA	2:L:57:VAL:CG2	2.26	1.14
2:I:53:PRO:HG2	2:I:56:GLN:HG2	1.18	1.14
1:C:522:LEU:HD21	1:C:705:LEU:HD21	1.22	1.14
1:A:290:THR:HG22	1:A:292:PRO:HD2	1.29	1.14
1:E:515:ARG:CD	1:E:1367:TYR:CE1	2.30	1.14
1:C:783:LYS:CA	2:K:57:VAL:CG2	2.26	1.14
1:B:783:LYS:N	2:G:57:VAL:HG23	1.59	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:452:GLN:HE21	1:B:764:THR:HG21	0.98	1.14
1:B:1349:ARG:HG2	1:B:1349:ARG:HH11	0.97	1.14
1:C:139:VAL:HG12	1:C:140:SER:H	1.01	1.14
2:G:319:LEU:HD11	2:G:369:LEU:HD21	1.26	1.14
1:F:290:THR:HG23	1:F:292:PRO:HD2	1.27	1.14
1:A:430:VAL:HG13	1:A:554:GLU:HB3	1.17	1.13
1:C:381:GLU:OE1	1:C:402:ARG:NH1	1.81	1.13
1:B:999:LYS:CG	1:B:1022:LEU:HD23	1.78	1.13
1:E:182:MET:HE3	1:E:217:PRO:CA	1.77	1.13
1:A:1438:ARG:HB2	2:L:376:GLY:N	1.47	1.13
1:D:782:ARG:NH2	2:H:51:GLY:C	1.88	1.13
1:A:825:LEU:CD1	1:A:1186:ARG:NH1	1.98	1.13
1:C:715:VAL:HG12	1:C:715:VAL:O	1.44	1.13
1:B:900:GLY:CA	1:F:1263:HIS:HE1	1.33	1.13
1:D:781:PHE:C	2:H:52:VAL:HB	1.38	1.13
1:B:782:ARG:CD	2:G:53:PRO:CD	2.25	1.13
1:A:515:ARG:CD	1:A:1367:TYR:CE1	2.30	1.13
2:G:148:LEU:HD12	2:G:149:SER:H	1.14	1.13
1:C:1111:ASN:OD1	1:C:1119:VAL:HG23	1.44	1.13
1:C:1212:ASP:O	1:C:1216:VAL:HG23	1.47	1.13
1:C:236:THR:HG21	1:C:328:ASP:H	1.00	1.13
1:A:182:MET:CE	1:A:217:PRO:CB	2.13	1.13
2:I:152:VAL:HG13	2:I:175:VAL:HA	1.24	1.13
2:G:259:VAL:HG21	2:G:264:TYR:HB2	1.21	1.13
2:L:152:VAL:HG13	2:L:175:VAL:HA	1.24	1.13
1:A:783:LYS:HA	2:J:57:VAL:CG2	1.79	1.13
1:E:783:LYS:N	2:L:57:VAL:HG23	1.64	1.12
1:A:1230:GLN:H	1:E:877:ARG:HG2	1.13	1.12
1:F:777:GLY:CA	2:I:52:VAL:CG1	2.27	1.12
1:D:777:GLY:CA	2:H:52:VAL:CG1	2.28	1.12
2:J:186:LEU:HD23	2:J:195:LEU:HD21	1.17	1.12
1:F:1111:ASN:OD1	1:F:1119:VAL:HG23	1.45	1.13
2:L:423:LEU:HD21	2:L:443:ILE:HD13	1.28	1.12
1:A:526:LEU:HD12	1:A:526:LEU:N	1.63	1.12
1:D:290:THR:HG23	1:D:292:PRO:HD2	1.27	1.12
1:C:783:LYS:HA	2:K:57:VAL:CG2	1.79	1.12
1:D:999:LYS:CG	1:D:1022:LEU:HD23	1.78	1.12
1:E:715:VAL:HG12	1:E:715:VAL:O	1.44	1.12
1:E:381:GLU:OE1	1:E:402:ARG:NH1	1.81	1.12
1:A:139:VAL:HG12	1:A:140:SER:H	1.01	1.12
2:L:259:VAL:HG21	2:L:264:TYR:HB2	1.21	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:781:PHE:C	2:K:52:VAL:HB	1.51	1.12
1:F:710:LYS:HG2	1:F:939:GLY:HA3	1.25	1.12
2:L:244:LYS:HD2	2:L:404:GLU:HB3	1.26	1.12
1:F:999:LYS:CG	1:F:1022:LEU:HD23	1.78	1.12
2:H:186:LEU:HD23	2:H:195:LEU:HD21	1.17	1.12
1:F:182:MET:HE2	1:F:217:PRO:HB2	1.15	1.12
1:C:1221:PRO:HB2	1:C:1229:MET:HE2	1.15	1.12
1:C:783:LYS:N	2:K:57:VAL:HG23	1.64	1.12
1:A:182:MET:HE3	1:A:217:PRO:CA	1.79	1.12
1:F:783:LYS:CA	2:I:57:VAL:HG22	1.60	1.12
1:B:430:VAL:HG13	1:B:554:GLU:HB3	1.31	1.12
2:I:244:LYS:HD2	2:I:404:GLU:HB3	1.26	1.12
1:D:30:HIS:CD2	1:D:31:ARG:HG3	1.85	1.12
2:H:406:LEU:HD23	2:H:407:PRO:HD3	1.29	1.12
1:D:1263:HIS:HE1	1:F:900:GLY:CA	1.33	1.12
1:F:139:VAL:HG12	1:F:140:SER:N	1.60	1.12
2:J:406:LEU:HD23	2:J:407:PRO:HD3	1.29	1.12
1:A:783:LYS:CA	2:J:57:VAL:CG2	2.26	1.11
1:A:781:PHE:C	2:J:52:VAL:HB	1.51	1.11
2:K:53:PRO:HG2	2:K:56:GLN:HG2	1.18	1.11
1:D:782:ARG:O	2:H:57:VAL:CG2	1.98	1.11
1:B:782:ARG:NH2	2:G:51:GLY:C	1.88	1.11
2:H:152:VAL:HG13	2:H:175:VAL:HA	1.24	1.11
2:L:148:LEU:HD12	2:L:149:SER:H	1.14	1.11
1:B:782:ARG:O	2:G:57:VAL:CG2	1.98	1.11
1:F:30:HIS:CD2	1:F:31:ARG:HG3	1.85	1.11
1:A:253:HIS:CE1	1:A:254:PRO:HD2	1.85	1.11
1:C:59:VAL:CG2	1:C:105:TYR:CD2	2.34	1.11
2:K:148:LEU:HD12	2:K:149:SER:H	1.14	1.11
1:E:1221:PRO:HB2	1:E:1229:MET:HE2	1.15	1.11
1:C:1438:ARG:HB2	2:J:376:GLY:N	1.47	1.11
1:E:253:HIS:CE1	1:E:254:PRO:HD2	1.85	1.11
2:L:186:LEU:HD23	2:L:195:LEU:HD21	1.17	1.11
1:C:838:VAL:HG13	1:C:839:PRO:HD2	1.23	1.11
1:E:1391:MET:HE2	1:E:1458:VAL:HG22	1.11	1.11
2:L:319:LEU:HD11	2:L:369:LEU:HD21	1.26	1.11
1:F:782:ARG:CD	2:I:53:PRO:HD3	1.81	1.11
1:D:782:ARG:CB	2:H:56:GLN:HE21	1.63	1.11
1:B:782:ARG:CD	2:G:53:PRO:HD3	1.81	1.11
1:F:999:LYS:HG3	1:F:1022:LEU:HD23	1.19	1.11
1:B:515:ARG:HD2	1:B:1367:TYR:CE1	1.86	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:418:THR:HB	2:G:424:LEU:HD11	1.32	1.11
1:B:1229:MET:HA	1:D:877:ARG:HG3	1.12	1.11
1:E:139:VAL:HG12	1:E:140:SER:H	1.01	1.11
1:A:783:LYS:N	2:J:57:VAL:HG23	1.64	1.10
1:E:783:LYS:HA	2:L:57:VAL:CG2	1.79	1.10
1:A:1221:PRO:HB2	1:A:1229:MET:HE2	1.13	1.10
1:F:782:ARG:CB	2:I:56:GLN:HE21	1.63	1.10
1:C:253:HIS:CE1	1:C:254:PRO:HD2	1.85	1.10
2:J:423:LEU:HD21	2:J:443:ILE:HD13	1.28	1.10
1:A:381:GLU:OE1	1:A:402:ARG:NH1	1.81	1.10
2:J:53:PRO:HG2	2:J:56:GLN:HG2	1.18	1.10
1:F:782:ARG:O	2:I:57:VAL:CG2	1.98	1.10
1:B:30:HIS:CD2	1:B:31:ARG:HG3	1.85	1.10
1:C:387:PRO:HD3	1:C:1344:GLU:OE2	1.51	1.10
2:G:406:LEU:HD23	2:G:407:PRO:HD3	1.29	1.10
1:A:387:PRO:HD3	1:A:1344:GLU:OE2	1.51	1.10
1:B:139:VAL:HG12	1:B:140:SER:N	1.60	1.10
1:C:877:ARG:HG2	1:E:1230:GLN:H	1.13	1.10
1:B:782:ARG:CB	2:G:56:GLN:HE21	1.63	1.10
1:E:1376:LEU:N	1:E:1376:LEU:HD23	1.62	1.10
1:D:430:VAL:CG1	1:D:554:GLU:HB2	1.81	1.10
1:E:746:ILE:HG21	1:E:1182:ASP:H	1.12	1.10
2:I:367:ILE:HG23	2:I:390:VAL:HG23	1.34	1.10
1:B:999:LYS:HG3	1:B:1022:LEU:HD23	1.19	1.10
1:E:236:THR:HG21	1:E:328:ASP:H	1.00	1.10
2:I:371:VAL:HG23	2:I:383:ILE:HG23	1.27	1.10
1:A:1376:LEU:HD23	1:A:1376:LEU:N	1.62	1.10
1:F:430:VAL:HG13	1:F:554:GLU:HB3	1.31	1.10
2:G:423:LEU:HD21	2:G:443:ILE:HD13	1.28	1.10
2:L:418:THR:HB	2:L:424:LEU:HD11	1.32	1.10
1:D:710:LYS:HG2	1:D:939:GLY:HA3	1.25	1.10
1:F:1349:ARG:HH11	1:F:1349:ARG:HG2	0.97	1.10
1:B:710:LYS:HG2	1:B:939:GLY:HA3	1.25	1.10
2:K:371:VAL:HG23	2:K:383:ILE:HG23	1.27	1.10
1:F:515:ARG:HD2	1:F:1367:TYR:CE1	1.86	1.10
1:E:782:ARG:HB3	2:L:56:GLN:HE21	0.96	1.10
1:D:1227:GLU:CD	1:F:876:ASN:HB3	1.71	1.10
1:B:728:ILE:HD12	1:B:1047:MET:CE	1.82	1.10
1:E:522:LEU:HD21	1:E:705:LEU:HD23	1.33	1.10
1:F:728:ILE:HD12	1:F:1047:MET:CE	1.82	1.10
1:C:960:THR:HG22	1:C:963:VAL:HG23	1.32	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:148:LEU:HD12	2:H:149:SER:H	1.14	1.10
1:B:876:ASN:HB3	1:F:1227:GLU:CD	1.71	1.09
2:G:186:LEU:HD23	2:G:195:LEU:HD21	1.17	1.09
2:H:367:ILE:HG23	2:H:390:VAL:HG23	1.34	1.09
1:A:236:THR:HG21	1:A:328:ASP:H	1.00	1.09
2:I:418:THR:HB	2:I:424:LEU:HD11	1.32	1.09
1:C:1391:MET:CE	1:C:1458:VAL:HG22	1.82	1.09
1:E:777:GLY:HA2	2:L:52:VAL:HG13	1.33	1.09
1:C:1376:LEU:HD23	1:C:1376:LEU:N	1.62	1.09
1:D:782:ARG:CD	2:H:53:PRO:HD3	1.81	1.09
1:D:1047:MET:HE2	1:D:1186:ARG:HH22	1.13	1.09
1:E:59:VAL:CG2	1:E:105:TYR:CD2	2.34	1.09
2:I:406:LEU:HD23	2:I:407:PRO:HD3	1.29	1.09
1:A:715:VAL:HG12	1:A:715:VAL:O	1.44	1.09
1:A:513:SER:HB3	1:A:520:MET:HE2	1.30	1.09
1:B:777:GLY:CA	2:G:52:VAL:CG1	2.27	1.09
1:F:430:VAL:CG1	1:F:554:GLU:HB2	1.82	1.09
1:A:59:VAL:CG2	1:A:105:TYR:CD2	2.34	1.09
2:H:423:LEU:HD21	2:H:443:ILE:HD13	1.28	1.09
1:D:1349:ARG:HG2	1:D:1349:ARG:HH11	0.97	1.09
2:I:148:LEU:HD12	2:I:149:SER:H	1.14	1.09
1:F:1047:MET:HE2	1:F:1186:ARG:HH22	1.11	1.09
2:G:371:VAL:HG23	2:G:383:ILE:HG23	1.28	1.09
1:F:236:THR:HG21	1:F:328:ASP:H	1.17	1.09
2:L:371:VAL:HG23	2:L:383:ILE:HG23	1.28	1.09
1:B:1227:GLU:CD	1:D:876:ASN:HB3	1.72	1.09
1:E:781:PHE:C	2:L:52:VAL:HB	1.51	1.09
1:A:522:LEU:HD21	1:A:705:LEU:HD21	1.22	1.09
2:G:53:PRO:HG2	2:G:56:GLN:HG2	1.18	1.09
1:D:728:ILE:HD12	1:D:1047:MET:CE	1.82	1.09
1:C:430:VAL:HG13	1:C:554:GLU:HB3	1.17	1.09
1:D:452:GLN:HE21	1:D:764:THR:HG21	0.98	1.09
2:G:225:SER:HB3	2:G:227:PRO:HD2	1.35	1.09
1:C:1391:MET:HE2	1:C:1458:VAL:HG22	1.10	1.09
1:C:526:LEU:HD12	1:C:526:LEU:N	1.63	1.09
1:F:238:LYS:O	1:F:242:ASN:ND2	1.86	1.09
1:A:838:VAL:HG13	1:A:839:PRO:HD2	1.23	1.09
1:A:777:GLY:HA2	2:J:52:VAL:HG13	1.33	1.08
1:C:452:GLN:HE21	1:C:764:THR:HG23	1.13	1.08
1:B:430:VAL:CG1	1:B:554:GLU:HB2	1.82	1.08
1:E:1391:MET:CE	1:E:1458:VAL:HG22	1.83	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:238:LYS:O	1:B:242:ASN:ND2	1.86	1.08
1:C:353:MET:HE2	1:C:366:GLY:O	1.53	1.08
1:E:387:PRO:HD3	1:E:1344:GLU:OE2	1.51	1.08
1:D:1229:MET:HA	1:F:877:ARG:HG3	1.12	1.08
1:B:746:ILE:HG23	1:B:1182:ASP:HB3	1.32	1.08
1:C:522:LEU:CD2	1:C:705:LEU:HD21	1.83	1.08
1:F:746:ILE:HG21	1:F:1182:ASP:N	1.69	1.08
2:I:225:SER:HB3	2:I:227:PRO:HD2	1.35	1.08
1:C:452:GLN:HE21	1:C:764:THR:CG2	1.66	1.08
2:L:367:ILE:HG23	2:L:390:VAL:HG23	1.34	1.08
1:E:522:LEU:CD2	1:E:705:LEU:HD21	1.84	1.08
1:E:1438:ARG:HB2	2:K:376:GLY:N	1.47	1.08
1:D:430:VAL:HG13	1:D:554:GLU:HB3	1.31	1.08
1:C:345:MET:HG3	1:C:346:ASP:H	1.18	1.08
1:A:1391:MET:CE	1:A:1458:VAL:HG22	1.83	1.08
1:D:515:ARG:HD2	1:D:1367:TYR:CE1	1.86	1.08
1:D:299:VAL:HG12	1:D:299:VAL:O	1.53	1.08
1:E:452:GLN:HE21	1:E:764:THR:HG23	1.13	1.08
2:J:367:ILE:HG23	2:J:390:VAL:HG23	1.34	1.08
1:D:777:GLY:HA2	2:H:52:VAL:HG13	1.22	1.08
1:F:452:GLN:HE21	1:F:764:THR:HG21	0.98	1.08
2:L:225:SER:HB3	2:L:227:PRO:HD2	1.35	1.08
2:J:148:LEU:HD12	2:J:149:SER:H	1.14	1.08
1:D:139:VAL:HG12	1:D:140:SER:N	1.60	1.08
1:D:238:LYS:O	1:D:242:ASN:ND2	1.86	1.08
1:F:295:LYS:HD2	1:F:390:MET:HE3	1.34	1.08
1:C:290:THR:HG22	1:C:292:PRO:HD2	1.29	1.08
1:B:430:VAL:HG13	1:B:554:GLU:HB2	1.36	1.08
1:D:746:ILE:HG23	1:D:1182:ASP:HB3	1.32	1.08
2:K:186:LEU:HD23	2:K:195:LEU:HD21	1.17	1.08
2:K:225:SER:HB3	2:K:227:PRO:HD2	1.35	1.08
1:B:1263:HIS:HE1	1:D:900:GLY:CA	1.33	1.07
1:E:452:GLN:HE21	1:E:764:THR:CG2	1.66	1.07
1:C:777:GLY:HA2	2:K:52:VAL:HG13	1.33	1.07
1:C:877:ARG:HG3	1:E:1229:MET:HA	1.33	1.07
1:B:295:LYS:HD2	1:B:390:MET:HE3	1.32	1.07
1:A:960:THR:HG22	1:A:963:VAL:HG23	1.32	1.07
1:E:526:LEU:HD12	1:E:526:LEU:N	1.63	1.07
2:I:242:VAL:HG12	2:I:403:PRO:HD3	1.36	1.07
1:C:974:ILE:HD11	1:C:983:LEU:HD12	1.33	1.07
1:C:513:SER:HB3	1:C:520:MET:HE2	1.35	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:430:VAL:CG1	1:D:554:GLU:CB	2.32	1.07
1:D:1076:GLY:HA3	1:D:1145:GLU:HG2	1.36	1.07
1:F:405:GLU:OE1	1:F:405:GLU:N	1.86	1.07
1:B:236:THR:HG21	1:B:328:ASP:H	1.17	1.07
1:E:782:ARG:CB	2:L:56:GLN:HE21	1.68	1.07
1:C:782:ARG:CG	2:K:53:PRO:CD	1.88	1.07
1:C:782:ARG:CB	2:K:56:GLN:HE21	1.68	1.07
1:B:877:ARG:HG3	1:F:1229:MET:HA	1.12	1.07
2:K:367:ILE:HG23	2:K:390:VAL:HG23	1.34	1.07
1:C:825:LEU:CD1	1:C:1186:ARG:NH1	1.98	1.07
1:C:235:ASN:HD22	1:C:236:THR:N	1.52	1.07
1:D:513:SER:HB3	1:D:520:MET:HE1	1.36	1.07
2:K:418:THR:HB	2:K:424:LEU:HD11	1.32	1.07
1:D:405:GLU:N	1:D:405:GLU:OE1	1.86	1.07
1:B:405:GLU:N	1:B:405:GLU:OE1	1.86	1.07
1:A:974:ILE:HD11	1:A:983:LEU:HD12	1.33	1.07
1:A:877:ARG:HG2	1:C:1230:GLN:H	1.13	1.07
1:B:1115:VAL:HG12	1:B:1115:VAL:O	1.49	1.07
1:F:430:VAL:CG1	1:F:554:GLU:CB	2.32	1.07
1:E:430:VAL:HG13	1:E:554:GLU:HB3	1.17	1.07
2:I:167:ARG:HG2	2:I:210:ALA:HB1	1.07	1.07
1:A:900:GLY:HA3	1:C:1263:HIS:CE1	1.84	1.07
1:A:522:LEU:HD21	1:A:705:LEU:HD23	1.33	1.07
1:C:746:ILE:HG21	1:C:1182:ASP:H	1.12	1.07
1:B:139:VAL:HG11	1:B:143:GLN:HB3	1.36	1.07
2:K:406:LEU:HD23	2:K:407:PRO:HD3	1.29	1.07
1:A:1210:THR:HG22	1:A:1211:LEU:H	0.91	1.07
1:A:780:ARG:HD3	2:J:51:GLY:O	1.55	1.06
1:B:746:ILE:HG21	1:B:1182:ASP:N	1.69	1.06
1:F:746:ILE:HG23	1:F:1182:ASP:HB3	1.32	1.06
1:B:1401:LEU:HD12	1:B:1401:LEU:C	1.74	1.06
2:K:423:LEU:HD21	2:K:443:ILE:HD13	1.28	1.06
2:G:367:ILE:HG23	2:G:390:VAL:HG23	1.34	1.06
1:A:452:GLN:HE21	1:A:764:THR:HG23	1.13	1.06
1:C:782:ARG:CD	2:K:53:PRO:HD3	1.85	1.06
1:B:182:MET:HE2	1:B:217:PRO:HB2	1.07	1.06
1:F:1115:VAL:HG12	1:F:1115:VAL:O	1.49	1.06
1:D:1115:VAL:O	1:D:1115:VAL:HG12	1.49	1.06
2:H:53:PRO:HG2	2:H:56:GLN:HG2	1.18	1.06
1:B:777:GLY:HA2	2:G:52:VAL:HG13	1.22	1.06
1:B:782:ARG:CG	2:G:53:PRO:CD	1.77	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:290:THR:HG22	1:E:292:PRO:HD2	1.29	1.06
1:D:746:ILE:HG21	1:D:1182:ASP:N	1.69	1.06
2:I:423:LEU:HD21	2:I:443:ILE:HD13	1.28	1.06
1:F:299:VAL:HG12	1:F:299:VAL:O	1.53	1.06
2:L:242:VAL:HG12	2:L:403:PRO:HD3	1.37	1.06
1:A:345:MET:HG3	1:A:346:ASP:H	1.18	1.06
2:J:418:THR:HB	2:J:424:LEU:HD11	1.32	1.06
2:L:406:LEU:HD23	2:L:407:PRO:HD3	1.29	1.06
1:A:780:ARG:NH2	2:J:50:CYS:SG	2.28	1.06
1:A:782:ARG:CB	2:J:56:GLN:HE21	1.68	1.06
1:A:1115:VAL:O	1:A:1115:VAL:HG12	1.55	1.06
2:J:225:SER:HB3	2:J:227:PRO:HD2	1.35	1.06
2:L:71:LEU:HD12	2:L:80:ALA:HB2	1.38	1.06
2:H:225:SER:HB3	2:H:227:PRO:HD2	1.35	1.06
1:A:235:ASN:HD22	1:A:236:THR:N	1.52	1.06
1:D:113:ASN:ND2	1:D:115:ASP:H	1.54	1.06
1:B:417:ASP:O	1:B:419:TRP:N	1.89	1.06
2:L:366:ARG:HG2	2:L:391:GLN:HA	1.38	1.06
1:A:452:GLN:HE21	1:A:764:THR:CG2	1.66	1.06
1:C:1438:ARG:CD	2:J:376:GLY:C	2.20	1.06
1:D:783:LYS:CE	2:H:57:VAL:HG12	1.66	1.06
1:A:522:LEU:CD2	1:A:705:LEU:HD21	1.84	1.06
2:K:71:LEU:HD12	2:K:80:ALA:HB2	1.38	1.06
1:B:513:SER:HB3	1:B:520:MET:HE1	1.38	1.06
2:I:366:ARG:HG2	2:I:391:GLN:HA	1.38	1.06
2:G:366:ARG:HG2	2:G:391:GLN:HA	1.38	1.06
1:C:780:ARG:HD3	2:K:51:GLY:O	1.55	1.06
1:E:522:LEU:HD21	1:E:705:LEU:HD21	1.22	1.06
1:D:515:ARG:CD	1:D:1367:TYR:CE1	2.39	1.06
1:D:139:VAL:HG11	1:D:143:GLN:HB3	1.36	1.06
1:B:113:ASN:ND2	1:B:115:ASP:H	1.54	1.06
1:D:1317:THR:HG22	1:D:1318:ASN:N	1.71	1.06
1:E:780:ARG:NH2	2:L:50:CYS:SG	2.28	1.05
1:F:515:ARG:CD	1:F:1367:TYR:CE1	2.39	1.05
1:D:417:ASP:O	1:D:419:TRP:N	1.89	1.05
2:J:242:VAL:HG12	2:J:403:PRO:HD3	1.37	1.05
1:A:782:ARG:HB3	2:J:56:GLN:HE21	0.96	1.05
1:F:182:MET:HE3	1:F:217:PRO:HB3	1.39	1.05
1:D:782:ARG:CB	2:H:53:PRO:HD2	1.86	1.05
1:E:513:SER:HB3	1:E:520:MET:HE2	1.33	1.05
1:B:430:VAL:CG1	1:B:554:GLU:CB	2.32	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:167:ARG:HG2	2:L:210:ALA:HB1	1.08	1.05
1:B:515:ARG:CD	1:B:1367:TYR:CE1	2.39	1.05
1:E:235:ASN:HD22	1:E:236:THR:N	1.52	1.05
2:H:418:THR:HB	2:H:424:LEU:HD11	1.32	1.05
1:D:236:THR:HG21	1:D:328:ASP:H	1.17	1.05
1:E:345:MET:HG3	1:E:346:ASP:H	1.18	1.05
1:E:780:ARG:HD3	2:L:51:GLY:O	1.55	1.05
1:C:780:ARG:NH2	2:K:50:CYS:SG	2.28	1.05
1:A:1229:MET:HA	1:E:877:ARG:HG3	1.34	1.05
1:D:1047:MET:CE	1:D:1186:ARG:HH22	1.70	1.05
2:G:71:LEU:HD12	2:G:80:ALA:HB2	1.38	1.05
2:I:71:LEU:HD12	2:I:80:ALA:HB2	1.38	1.05
2:J:167:ARG:HG2	2:J:210:ALA:HB1	1.08	1.05
1:E:236:THR:CG2	1:E:328:ASP:H	1.69	1.05
1:F:227:MET:HE3	1:F:282:GLU:HA	1.37	1.05
1:A:877:ARG:HG3	1:C:1229:MET:HA	1.33	1.05
1:F:782:ARG:CG	2:I:53:PRO:CD	1.77	1.05
1:D:825:LEU:HD13	1:D:1186:ARG:HH12	1.04	1.05
1:E:1115:VAL:O	1:E:1115:VAL:HG12	1.55	1.05
1:F:513:SER:HB3	1:F:520:MET:HE1	1.36	1.05
1:C:295:LYS:NZ	1:C:299:VAL:O	1.90	1.05
2:K:366:ARG:HG2	2:K:391:GLN:HA	1.38	1.05
1:D:505:GLN:NE2	1:D:1000:LEU:HB3	1.72	1.05
1:A:1438:ARG:CD	2:L:376:GLY:C	2.20	1.05
1:F:1076:GLY:HA3	1:F:1145:GLU:HG2	1.36	1.05
2:G:242:VAL:HG12	2:G:403:PRO:HD3	1.37	1.05
1:B:505:GLN:NE2	1:B:1000:LEU:HB3	1.72	1.05
1:E:777:GLY:CA	2:L:52:VAL:CG1	2.36	1.04
1:C:782:ARG:HB3	2:K:56:GLN:HE21	0.96	1.04
1:F:782:ARG:CB	2:I:53:PRO:HD2	1.86	1.04
1:C:522:LEU:HD21	1:C:705:LEU:HD23	1.33	1.04
1:B:782:ARG:CB	2:G:53:PRO:HD2	1.86	1.04
1:A:1184:ASN:HB3	1:A:1185:PRO:HD3	1.39	1.04
1:F:1131:THR:HG23	1:F:1133:GLU:OE1	1.57	1.04
1:A:875:MET:HE2	1:A:1139:PHE:CE2	1.92	1.04
1:A:746:ILE:HG21	1:A:1182:ASP:H	1.12	1.04
2:J:449:LEU:HD21	2:J:451:VAL:HG13	1.39	1.04
1:F:236:THR:CG2	1:F:328:ASP:H	1.70	1.04
1:E:960:THR:HG22	1:E:963:VAL:HG23	1.32	1.04
1:F:417:ASP:O	1:F:419:TRP:N	1.89	1.04
1:F:113:ASN:ND2	1:F:115:ASP:H	1.54	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:782:ARG:CD	2:J:53:PRO:HD3	1.85	1.04
2:I:449:LEU:HD21	2:I:451:VAL:HG13	1.39	1.04
1:D:999:LYS:HG3	1:D:1022:LEU:CD2	1.87	1.04
1:D:227:MET:HE3	1:D:282:GLU:HA	1.37	1.04
1:E:826:ARG:HG2	1:E:826:ARG:HH11	1.18	1.04
1:E:974:ILE:HD11	1:E:983:LEU:HD12	1.33	1.04
1:C:900:GLY:HA3	1:E:1263:HIS:CE1	1.84	1.04
2:K:449:LEU:HD21	2:K:451:VAL:HG13	1.39	1.04
1:C:236:THR:CG2	1:C:328:ASP:H	1.69	1.04
2:H:71:LEU:HD12	2:H:80:ALA:HB2	1.38	1.04
1:F:139:VAL:HG11	1:F:143:GLN:HB3	1.36	1.04
1:F:1317:THR:HG22	1:F:1318:ASN:N	1.71	1.04
1:F:1062:ARG:HG3	1:F:1062:ARG:O	1.58	1.04
1:A:782:ARG:HG2	2:J:53:PRO:N	1.73	1.04
1:D:182:MET:HE2	1:D:217:PRO:HB2	1.08	1.04
1:A:236:THR:CG2	1:A:328:ASP:H	1.69	1.04
1:E:1210:THR:HG22	1:E:1211:LEU:H	0.91	1.04
1:F:464:ILE:HD11	1:F:779:TYR:CE2	1.93	1.04
1:D:912:SER:HB2	1:D:968:PRO:HD2	1.39	1.04
1:E:238:LYS:O	1:E:242:ASN:ND2	1.91	1.04
1:A:777:GLY:CA	2:J:52:VAL:CG1	2.35	1.04
1:D:1230:GLN:H	1:F:877:ARG:HG2	1.23	1.04
1:E:505:GLN:NE2	1:E:1001:VAL:N	2.06	1.04
1:F:1047:MET:CE	1:F:1186:ARG:HH22	1.70	1.04
1:C:1115:VAL:HG12	1:C:1115:VAL:O	1.55	1.04
2:H:449:LEU:HD21	2:H:451:VAL:HG13	1.39	1.04
1:C:782:ARG:HG2	2:K:53:PRO:N	1.73	1.03
1:A:1221:PRO:CB	1:A:1229:MET:HE2	1.87	1.03
1:E:1184:ASN:HB3	1:E:1185:PRO:HD3	1.39	1.03
1:C:1184:ASN:HB3	1:C:1185:PRO:HD3	1.39	1.03
1:F:746:ILE:HG21	1:F:1182:ASP:H	0.87	1.03
2:J:440:ALA:HB1	2:J:456:ASP:HB3	1.40	1.03
2:I:182:MET:HE2	2:I:216:PRO:HG3	1.39	1.03
1:A:353:MET:HE2	1:A:366:GLY:O	1.57	1.03
1:B:227:MET:HE3	1:B:282:GLU:HA	1.37	1.03
1:A:145:GLU:OE1	1:A:173:SER:HB2	1.57	1.03
1:A:405:GLU:OE1	1:A:405:GLU:N	1.91	1.03
1:E:295:LYS:NZ	1:E:299:VAL:O	1.90	1.03
1:C:777:GLY:CA	2:K:52:VAL:CG1	2.35	1.03
1:F:783:LYS:CE	2:I:57:VAL:HG12	1.66	1.03
2:G:167:ARG:HG2	2:G:210:ALA:HB1	1.08	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:71:LEU:HD12	2:J:80:ALA:HB2	1.38	1.03
1:F:999:LYS:HG3	1:F:1022:LEU:CD2	1.87	1.03
2:J:366:ARG:HG2	2:J:391:GLN:HA	1.38	1.03
1:F:505:GLN:NE2	1:F:1000:LEU:HB3	1.72	1.03
1:E:113:ASN:ND2	1:E:115:ASP:H	1.56	1.03
1:E:782:ARG:CD	2:L:53:PRO:HD2	1.83	1.03
1:E:782:ARG:CD	2:L:53:PRO:HD3	1.85	1.03
1:B:1047:MET:CE	1:B:1186:ARG:HH22	1.70	1.03
1:C:182:MET:HE2	1:C:217:PRO:HB2	1.41	1.03
2:K:167:ARG:HG2	2:K:210:ALA:HB1	1.07	1.03
2:I:220:VAL:HG23	8:I:484:FAD:N6A	1.74	1.03
1:D:236:THR:CG2	1:D:328:ASP:H	1.70	1.03
2:K:242:VAL:HG12	2:K:403:PRO:HD3	1.36	1.03
1:B:1227:GLU:OE2	1:D:876:ASN:HB3	1.58	1.03
1:E:782:ARG:HG2	2:L:53:PRO:N	1.73	1.03
1:E:875:MET:HE2	1:E:1139:PHE:CE2	1.93	1.03
2:L:220:VAL:HG23	8:L:484:FAD:N6A	1.74	1.03
2:H:167:ARG:HG2	2:H:210:ALA:HB1	1.08	1.03
1:B:299:VAL:HG12	1:B:299:VAL:O	1.53	1.03
1:B:236:THR:CG2	1:B:328:ASP:H	1.70	1.03
1:A:238:LYS:O	1:A:242:ASN:ND2	1.91	1.03
1:B:1076:GLY:HA3	1:B:1145:GLU:HG2	1.36	1.03
1:C:826:ARG:HH11	1:C:826:ARG:HG2	1.18	1.03
1:D:1227:GLU:OE2	1:F:876:ASN:HB3	1.58	1.03
1:E:248:GLU:HA	1:E:251:MET:HG2	1.41	1.03
2:J:220:VAL:HG23	8:J:484:FAD:N6A	1.74	1.03
1:B:999:LYS:HG3	1:B:1022:LEU:CD2	1.87	1.03
2:H:366:ARG:HG2	2:H:391:GLN:HA	1.38	1.03
2:H:242:VAL:HG12	2:H:403:PRO:HD3	1.37	1.03
1:C:113:ASN:HD22	1:C:113:ASN:C	1.59	1.03
1:C:782:ARG:CG	2:K:52:VAL:C	2.17	1.02
1:A:1263:HIS:CE1	1:E:900:GLY:HA3	1.84	1.02
1:B:746:ILE:HG21	1:B:1182:ASP:H	0.87	1.02
1:B:1131:THR:HG23	1:B:1133:GLU:OE1	1.57	1.02
1:A:505:GLN:NE2	1:A:1001:VAL:N	2.06	1.02
2:G:449:LEU:HD21	2:G:451:VAL:HG13	1.39	1.02
2:G:440:ALA:HB1	2:G:456:ASP:HB3	1.40	1.02
1:D:1349:ARG:CG	1:D:1349:ARG:HH11	1.72	1.02
1:A:295:LYS:NZ	1:A:299:VAL:O	1.90	1.02
1:B:912:SER:HB2	1:B:968:PRO:HD2	1.39	1.02
1:B:464:ILE:HD11	1:B:779:TYR:CE2	1.93	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1210:THR:HG22	1:C:1211:LEU:N	1.74	1.02
1:E:145:GLU:OE1	1:E:173:SER:HB2	1.57	1.02
1:D:464:ILE:HD11	1:D:779:TYR:CE2	1.93	1.02
1:C:145:GLU:OE1	1:C:173:SER:HB2	1.57	1.02
1:A:782:ARG:CD	2:J:53:PRO:HD2	1.83	1.02
1:B:1047:MET:HE2	1:B:1186:ARG:HH22	1.18	1.02
2:G:220:VAL:HG23	8:G:484:FAD:N6A	1.74	1.02
2:I:440:ALA:HB1	2:I:456:ASP:HB3	1.40	1.02
2:L:449:LEU:HD21	2:L:451:VAL:HG13	1.39	1.02
1:D:1131:THR:HG23	1:D:1133:GLU:OE1	1.57	1.02
1:E:182:MET:CE	1:E:217:PRO:CB	2.13	1.02
1:E:1438:ARG:HD2	2:K:376:GLY:C	1.57	1.02
1:C:290:THR:HG22	1:C:292:PRO:CD	1.90	1.02
2:L:440:ALA:HB1	2:L:456:ASP:HB3	1.40	1.02
2:H:220:VAL:HG23	8:H:484:FAD:N6A	1.74	1.02
1:B:1230:GLN:H	1:D:877:ARG:HG2	1.23	1.02
1:B:1317:THR:HG22	1:B:1318:ASN:N	1.71	1.02
1:E:522:LEU:CD2	1:E:705:LEU:CD2	2.37	1.02
1:B:782:ARG:NH1	2:G:51:GLY:HA2	1.75	1.02
2:J:471:LYS:HA	2:J:471:LYS:HE2	1.42	1.02
1:B:1349:ARG:NH1	1:B:1349:ARG:HG2	1.71	1.02
2:H:471:LYS:HE2	2:H:471:LYS:HA	1.42	1.02
1:A:1317:THR:CG2	1:A:1358:GLU:OE1	2.08	1.02
1:A:113:ASN:C	1:A:113:ASN:HD22	1.59	1.02
1:C:248:GLU:HA	1:C:251:MET:HG2	1.41	1.02
2:K:471:LYS:HE2	2:K:471:LYS:HA	1.42	1.02
2:K:220:VAL:HG23	8:K:484:FAD:N6A	1.74	1.02
2:H:93:ILE:HD11	2:H:195:LEU:HD22	1.41	1.02
1:E:405:GLU:OE1	1:E:405:GLU:N	1.91	1.02
1:F:100:PHE:O	1:F:137:LYS:HE3	1.60	1.02
1:E:102:TYR:CE2	1:E:144:PHE:CE1	2.48	1.02
1:C:238:LYS:O	1:C:242:ASN:ND2	1.91	1.02
1:B:876:ASN:HB3	1:F:1227:GLU:OE2	1.58	1.01
1:D:782:ARG:HH21	2:H:51:GLY:C	1.57	1.01
1:C:505:GLN:NE2	1:C:1001:VAL:N	2.06	1.01
1:A:248:GLU:HA	1:A:251:MET:HG2	1.41	1.01
1:E:290:THR:HG22	1:E:292:PRO:CD	1.90	1.01
1:C:113:ASN:ND2	1:C:115:ASP:H	1.56	1.01
1:A:102:TYR:CE2	1:A:144:PHE:CE1	2.48	1.01
1:C:405:GLU:N	1:C:405:GLU:OE1	1.91	1.01
1:C:102:TYR:CE2	1:C:144:PHE:CE1	2.48	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:826:ARG:HH11	1:A:826:ARG:HG2	1.18	1.01
1:B:877:ARG:HG2	1:F:1230:GLN:H	1.23	1.01
1:D:780:ARG:HD3	2:H:51:GLY:O	1.60	1.01
1:B:780:ARG:HD3	2:G:51:GLY:O	1.60	1.01
2:K:93:ILE:HD11	2:K:195:LEU:HD22	1.41	1.01
1:A:1391:MET:HE2	1:A:1458:VAL:HG22	1.05	1.01
1:F:912:SER:HB2	1:F:968:PRO:HD2	1.39	1.01
1:A:672:GLN:HG3	1:A:693:MET:CE	1.91	1.01
1:C:782:ARG:CD	2:K:53:PRO:HD2	1.83	1.01
1:B:782:ARG:C	2:G:57:VAL:CG2	2.29	1.01
1:D:1401:LEU:C	1:D:1401:LEU:HD12	1.74	1.01
1:E:345:MET:HG3	1:E:346:ASP:N	1.72	1.01
1:A:310:PRO:HG3	1:A:404:ARG:NH2	1.75	1.01
2:G:153:ILE:HD11	8:G:484:FAD:C2A	1.90	1.01
1:A:113:ASN:ND2	1:A:115:ASP:H	1.56	1.01
1:C:310:PRO:HG3	1:C:404:ARG:NH2	1.75	1.01
1:D:1062:ARG:HG3	1:D:1062:ARG:O	1.58	1.01
1:B:100:PHE:O	1:B:137:LYS:HE3	1.60	1.01
1:A:782:ARG:CG	2:J:53:PRO:CD	1.88	1.01
1:F:782:ARG:C	2:I:57:VAL:CG2	2.29	1.01
1:C:522:LEU:CD2	1:C:705:LEU:CD2	2.37	1.01
1:D:1442:GLU:HG3	2:I:374:ALA:O	1.61	1.01
2:I:471:LYS:HE2	2:I:471:LYS:HA	1.42	1.01
1:D:295:LYS:HD2	1:D:390:MET:HE3	1.39	1.01
1:D:139:VAL:HG12	1:D:140:SER:H	1.19	1.01
1:E:672:GLN:HG3	1:E:693:MET:CE	1.91	1.00
2:J:324:ARG:HA	2:J:346:TRP:CE2	1.96	1.00
1:F:782:ARG:NH1	2:I:51:GLY:HA2	1.75	1.00
1:A:290:THR:HG22	1:A:292:PRO:CD	1.90	1.00
1:F:430:VAL:HG13	1:F:554:GLU:HB2	1.36	1.00
1:F:1184:ASN:HB3	1:F:1185:PRO:HD3	1.42	1.00
1:B:1442:GLU:HG3	2:H:374:ALA:O	1.61	1.00
2:I:175:VAL:HG13	2:I:214:TYR:HA	1.43	1.00
2:L:175:VAL:HG13	2:L:214:TYR:HA	1.43	1.00
1:E:1210:THR:HG22	1:E:1211:LEU:N	1.74	1.00
1:B:389:GLU:HB3	1:B:403:ASP:OD2	1.61	1.00
1:E:1008:THR:HG22	1:E:1009:ILE:N	1.74	1.00
2:L:324:ARG:HA	2:L:346:TRP:CE2	1.96	1.00
1:D:782:ARG:NH1	2:H:51:GLY:HA2	1.75	1.00
2:K:292:VAL:HG22	2:K:394:LEU:HD13	1.43	1.00
2:J:182:MET:HE2	2:J:216:PRO:HG3	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:324:ARG:HA	2:I:346:TRP:CE2	1.96	1.00
2:J:175:VAL:HG13	2:J:214:TYR:HA	1.43	1.00
2:L:471:LYS:HE2	2:L:471:LYS:HA	1.42	1.00
2:H:175:VAL:HG13	2:H:214:TYR:HA	1.43	1.00
1:C:1210:THR:HG22	1:C:1211:LEU:H	0.91	1.00
1:E:1317:THR:CG2	1:E:1358:GLU:OE1	2.08	1.00
1:A:1008:THR:HG22	1:A:1009:ILE:N	1.74	1.00
1:F:389:GLU:HB3	1:F:403:ASP:OD2	1.61	1.00
1:E:780:ARG:CZ	2:L:50:CYS:SG	2.49	1.00
1:C:1221:PRO:CB	1:C:1229:MET:HE2	1.91	1.00
1:A:877:ARG:HG2	1:C:1230:GLN:N	1.77	1.00
1:C:780:ARG:CZ	2:K:50:CYS:SG	2.49	1.00
1:B:1184:ASN:HB3	1:B:1185:PRO:HD3	1.42	1.00
2:G:292:VAL:HG22	2:G:394:LEU:HD13	1.43	1.00
1:D:913:GLY:HA2	1:D:1349:ARG:HD3	1.44	1.00
1:E:310:PRO:HG3	1:E:404:ARG:NH2	1.75	1.00
2:G:324:ARG:HA	2:G:346:TRP:CE2	1.96	1.00
1:C:1317:THR:CG2	1:C:1358:GLU:OE1	2.08	1.00
1:A:522:LEU:CD2	1:A:705:LEU:CD2	2.37	1.00
2:J:93:ILE:HD11	2:J:195:LEU:HD22	1.41	1.00
2:L:292:VAL:HG22	2:L:394:LEU:HD13	1.44	1.00
1:B:781:PHE:C	2:G:52:VAL:CB	2.29	1.00
2:K:153:ILE:HD11	8:K:484:FAD:C2A	1.90	1.00
2:K:440:ALA:HB1	2:K:456:ASP:HB3	1.40	1.00
1:A:1230:GLN:N	1:E:877:ARG:HG2	1.77	1.00
1:F:780:ARG:CD	2:I:51:GLY:O	2.10	1.00
2:G:93:ILE:HD11	2:G:195:LEU:HD22	1.41	1.00
1:F:1401:LEU:C	1:F:1401:LEU:HD12	1.74	1.00
2:I:153:ILE:HD11	8:I:484:FAD:C2A	1.90	1.00
2:L:153:ILE:HD11	8:L:484:FAD:C2A	1.90	1.00
1:A:958:HIS:O	1:A:1369:THR:HG22	1.62	1.00
1:B:603:HIS:HA	1:B:640:THR:HG22	1.44	1.00
1:F:781:PHE:C	2:I:52:VAL:CB	2.29	0.99
2:H:292:VAL:HG22	2:H:394:LEU:HD13	1.44	0.99
2:K:175:VAL:HG13	2:K:214:TYR:HA	1.43	0.99
2:J:153:ILE:HD11	8:J:484:FAD:C2A	1.90	0.99
2:K:148:LEU:HG	2:K:234:VAL:HG23	1.44	0.99
2:I:148:LEU:HG	2:I:234:VAL:HG23	1.44	0.99
1:D:780:ARG:CD	2:H:51:GLY:O	2.10	0.99
1:B:787:ARG:HH12	1:B:821:PRO:HG2	1.26	0.99
1:E:1438:ARG:CD	2:K:376:GLY:C	2.20	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:471:LYS:HE2	2:G:471:LYS:HA	1.42	0.99
2:H:148:LEU:HG	2:H:234:VAL:HG23	1.44	0.99
1:C:672:GLN:HG3	1:C:693:MET:CE	1.91	0.99
1:D:746:ILE:HG21	1:D:1182:ASP:H	0.87	0.99
2:G:175:VAL:HG13	2:G:214:TYR:HA	1.43	0.99
2:H:324:ARG:HA	2:H:346:TRP:CE2	1.96	0.99
1:F:1349:ARG:HG2	1:F:1349:ARG:NH1	1.71	0.99
1:A:1210:THR:HG22	1:A:1211:LEU:N	1.74	0.99
1:B:728:ILE:HD12	1:B:1047:MET:HE3	1.44	0.99
1:E:1221:PRO:CB	1:E:1229:MET:HE2	1.91	0.99
1:F:787:ARG:HH12	1:F:821:PRO:HG2	1.26	0.99
1:A:430:VAL:CG1	1:A:554:GLU:HB3	1.93	0.99
2:G:148:LEU:HG	2:G:234:VAL:HG23	1.44	0.99
1:E:182:MET:HE2	1:E:217:PRO:HB2	1.40	0.99
1:C:1393:TYR:O	1:C:1394:VAL:HG23	1.62	0.99
1:F:1449:ARG:HB3	1:F:1449:ARG:HH11	1.26	0.99
1:A:1393:TYR:O	1:A:1394:VAL:HG23	1.62	0.99
2:H:153:ILE:HD11	8:H:484:FAD:C2A	1.90	0.99
1:F:950:THR:HG22	1:F:951:GLU:N	1.78	0.99
1:D:389:GLU:HB3	1:D:403:ASP:OD2	1.61	0.99
1:B:290:THR:CG2	1:B:292:PRO:HD2	1.92	0.99
2:H:440:ALA:HB1	2:H:456:ASP:HB3	1.40	0.99
1:A:780:ARG:CZ	2:J:50:CYS:SG	2.49	0.99
1:F:1221:PRO:HD2	1:F:1229:MET:HE1	1.42	0.99
1:B:1449:ARG:HB3	1:B:1449:ARG:HH11	1.26	0.99
1:F:290:THR:CG2	1:F:292:PRO:HD2	1.92	0.99
1:F:501:GLN:HE21	1:F:653:HIS:CD2	1.81	0.99
1:D:1349:ARG:HG2	1:D:1349:ARG:NH1	1.71	0.99
1:D:781:PHE:C	2:H:52:VAL:CB	2.29	0.99
2:K:324:ARG:HA	2:K:346:TRP:CE2	1.96	0.99
1:E:430:VAL:CG1	1:E:554:GLU:HB3	1.92	0.99
1:C:295:LYS:NZ	1:C:299:VAL:HG12	1.78	0.99
1:F:1210:THR:HG22	1:F:1211:LEU:H	1.28	0.99
1:C:780:ARG:HH12	2:K:50:CYS:CB	1.75	0.98
1:F:825:LEU:HD13	1:F:1186:ARG:HH12	1.04	0.98
1:F:381:GLU:OE1	1:F:402:ARG:NH1	1.96	0.98
1:B:1062:ARG:O	1:B:1062:ARG:HG3	1.58	0.98
1:C:877:ARG:HG2	1:E:1230:GLN:N	1.76	0.98
1:D:782:ARG:C	2:H:57:VAL:CG2	2.29	0.98
2:L:93:ILE:HD11	2:L:195:LEU:HD22	1.41	0.98
1:E:295:LYS:NZ	1:E:299:VAL:HG12	1.78	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:93:ILE:HD11	2:I:195:LEU:HD22	1.41	0.98
1:E:1210:THR:CG2	1:E:1211:LEU:H	1.76	0.98
1:B:565:THR:HG22	1:B:602:THR:HB	1.44	0.98
1:D:381:GLU:OE1	1:D:402:ARG:NH1	1.96	0.98
1:D:565:THR:HG22	1:D:602:THR:HB	1.45	0.98
1:B:963:VAL:HG12	1:B:964:MET:N	1.76	0.98
1:A:1227:GLU:OE1	1:E:902:ASN:HB3	1.63	0.98
1:F:780:ARG:HH12	2:I:50:CYS:CB	1.76	0.98
2:H:220:VAL:HG22	8:H:484:FAD:N1A	1.78	0.98
1:B:381:GLU:OE1	1:B:402:ARG:NH1	1.96	0.98
1:D:100:PHE:O	1:D:137:LYS:HE3	1.60	0.98
2:L:100:GLN:HB3	2:L:105:GLU:HG2	1.46	0.98
2:L:108:CYS:SG	2:L:110:ILE:HG12	2.04	0.98
2:I:108:CYS:SG	2:I:110:ILE:HG12	2.04	0.98
1:A:782:ARG:C	2:J:57:VAL:CG2	2.32	0.98
1:B:877:ARG:CG	1:F:1229:MET:HA	1.93	0.98
1:E:430:VAL:CG1	1:E:554:GLU:CB	2.42	0.98
1:A:780:ARG:HH12	2:J:50:CYS:CB	1.75	0.98
1:F:780:ARG:HD3	2:I:51:GLY:O	1.60	0.98
1:C:430:VAL:CG1	1:C:554:GLU:HB3	1.92	0.98
2:J:220:VAL:HG22	8:J:484:FAD:N1A	1.78	0.98
1:A:778:PHE:CZ	1:A:1039:LYS:HD2	1.99	0.98
2:J:108:CYS:SG	2:J:110:ILE:HG12	2.04	0.98
1:B:783:LYS:CE	2:G:57:VAL:HG12	1.66	0.98
1:E:1393:TYR:O	1:E:1394:VAL:HG23	1.62	0.98
1:D:501:GLN:HE21	1:D:653:HIS:CD2	1.81	0.98
1:F:603:HIS:HA	1:F:640:THR:HG22	1.44	0.98
1:B:825:LEU:HD13	1:B:1186:ARG:HH12	1.04	0.98
1:C:875:MET:CE	1:C:1139:PHE:HE2	1.73	0.98
1:A:430:VAL:CG1	1:A:554:GLU:CB	2.42	0.98
1:B:501:GLN:HE21	1:B:653:HIS:CD2	1.81	0.98
1:A:295:LYS:NZ	1:A:299:VAL:HG12	1.78	0.98
2:H:100:GLN:HB3	2:H:105:GLU:HG2	1.46	0.98
1:C:782:ARG:C	2:K:57:VAL:CG2	2.32	0.98
1:A:291:ALA:HB3	1:A:292:PRO:HD3	1.46	0.98
2:I:292:VAL:HG22	2:I:394:LEU:HD13	1.43	0.98
1:F:1442:GLU:HG3	2:G:374:ALA:O	1.61	0.98
2:L:220:VAL:HG22	8:L:484:FAD:N1A	1.78	0.98
2:G:108:CYS:SG	2:G:110:ILE:HG12	2.04	0.97
1:C:345:MET:HG3	1:C:346:ASP:N	1.72	0.97
1:B:876:ASN:HB3	1:F:1227:GLU:OE1	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1447:TRP:CE2	1:A:1451:VAL:HG22	1.99	0.97
2:H:108:CYS:SG	2:H:110:ILE:HG12	2.04	0.97
2:G:220:VAL:HG22	8:G:484:FAD:N1A	1.78	0.97
1:D:290:THR:CG2	1:D:292:PRO:HD2	1.92	0.97
1:B:1229:MET:HA	1:D:877:ARG:CG	1.93	0.97
1:E:1387:MET:HG2	1:E:1387:MET:O	1.64	0.97
1:B:780:ARG:CD	2:G:51:GLY:O	2.10	0.97
1:D:1184:ASN:HB3	1:D:1185:PRO:HD3	1.42	0.97
2:J:148:LEU:HG	2:J:234:VAL:HG23	1.44	0.97
1:F:603:HIS:CA	1:F:640:THR:HG22	1.94	0.97
2:G:100:GLN:HB3	2:G:105:GLU:HG2	1.46	0.97
1:E:958:HIS:O	1:E:1369:THR:HG22	1.62	0.97
2:J:100:GLN:HB3	2:J:105:GLU:HG2	1.46	0.97
1:C:1438:ARG:HD2	2:J:376:GLY:C	1.57	0.97
2:J:292:VAL:HG22	2:J:394:LEU:HD13	1.43	0.97
2:L:90:PHE:HB3	2:L:93:ILE:CG2	1.95	0.97
1:D:950:THR:HG22	1:D:951:GLU:N	1.78	0.97
1:C:447:LEU:HD21	1:C:674:ALA:HA	1.46	0.97
2:K:153:ILE:HD11	8:K:484:FAD:H2A	1.46	0.97
2:J:71:LEU:HG	2:J:79:GLU:HB2	1.47	0.97
1:A:1210:THR:CG2	1:A:1211:LEU:H	1.76	0.97
1:E:959:SER:HA	1:E:1369:THR:CG2	1.94	0.97
1:F:963:VAL:HG12	1:F:964:MET:N	1.77	0.97
1:C:1008:THR:HG22	1:C:1009:ILE:N	1.74	0.97
1:A:899:ASN:C	1:C:1263:HIS:CE1	2.38	0.97
1:D:182:MET:CE	1:D:217:PRO:HB3	1.95	0.97
1:E:782:ARG:C	2:L:57:VAL:CG2	2.32	0.97
1:D:780:ARG:NH2	2:H:50:CYS:SG	2.38	0.97
1:D:782:ARG:CG	2:H:53:PRO:CD	1.77	0.97
1:E:1447:TRP:CE2	1:E:1451:VAL:HG22	1.99	0.97
2:J:44:ALA:HA	2:J:69:LEU:HD11	1.45	0.97
1:E:353:MET:HE2	1:E:366:GLY:O	1.64	0.97
1:E:780:ARG:HH12	2:L:50:CYS:CB	1.75	0.97
1:C:291:ALA:HB3	1:C:292:PRO:HD3	1.46	0.97
1:C:958:HIS:O	1:C:1369:THR:HG22	1.62	0.97
1:C:899:ASN:C	1:E:1263:HIS:CE1	2.38	0.97
2:K:220:VAL:HG22	8:K:484:FAD:N1A	1.78	0.97
2:I:220:VAL:HG22	8:I:484:FAD:N1A	1.78	0.97
2:I:44:ALA:HA	2:I:69:LEU:HD11	1.45	0.97
1:B:913:GLY:HA2	1:B:1349:ARG:HD3	1.44	0.97
1:B:603:HIS:CA	1:B:640:THR:HG22	1.95	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1438:ARG:HD2	2:L:376:GLY:C	1.57	0.97
2:I:71:LEU:HG	2:I:79:GLU:HB2	1.47	0.97
2:L:71:LEU:HD12	2:L:80:ALA:CB	1.94	0.97
2:H:153:ILE:HD11	8:H:484:FAD:H2A	1.46	0.97
1:D:603:HIS:CA	1:D:640:THR:HG22	1.95	0.97
2:K:327:MET:HB2	2:K:346:TRP:CH2	2.00	0.96
2:G:90:PHE:HB3	2:G:93:ILE:CG2	1.95	0.96
1:B:1317:THR:CG2	1:B:1358:GLU:OE1	2.13	0.96
1:D:603:HIS:HA	1:D:640:THR:HG22	1.44	0.96
1:B:652:THR:HG22	1:B:703:GLY:HA3	1.47	0.96
1:B:1227:GLU:OE2	1:D:876:ASN:CB	2.14	0.96
1:A:902:ASN:HB3	1:C:1227:GLU:OE1	1.63	0.96
1:A:182:MET:HE2	1:A:217:PRO:HB2	1.47	0.96
1:A:1263:HIS:CE1	1:E:899:ASN:C	2.38	0.96
1:F:782:ARG:HH21	2:I:51:GLY:C	1.57	0.96
1:F:780:ARG:NH2	2:I:50:CYS:SG	2.38	0.96
1:D:780:ARG:HH12	2:H:50:CYS:CB	1.76	0.96
1:F:1039:LYS:O	1:F:1040:PHE:CD1	2.18	0.96
2:I:327:MET:HB2	2:I:346:TRP:CH2	2.00	0.96
2:J:71:LEU:HD12	2:J:80:ALA:CB	1.94	0.96
1:F:1349:ARG:CG	1:F:1349:ARG:HH11	1.72	0.96
1:A:1387:MET:O	1:A:1387:MET:HG2	1.64	0.96
1:A:782:ARG:CG	2:J:52:VAL:C	2.17	0.96
1:B:780:ARG:HH12	2:G:50:CYS:CB	1.76	0.96
1:E:505:GLN:HE22	1:E:1001:VAL:N	1.61	0.96
1:E:778:PHE:CZ	1:E:1039:LYS:HD2	1.99	0.96
2:I:71:LEU:HD12	2:I:80:ALA:CB	1.95	0.96
1:F:513:SER:HB3	1:F:520:MET:CE	1.95	0.96
2:H:71:LEU:HG	2:H:79:GLU:HB2	1.47	0.96
2:L:148:LEU:HG	2:L:234:VAL:HG23	1.44	0.96
1:F:913:GLY:HA2	1:F:1349:ARG:HD3	1.44	0.96
1:B:513:SER:HB3	1:B:520:MET:CE	1.95	0.96
1:C:959:SER:HA	1:C:1369:THR:CG2	1.95	0.96
1:D:652:THR:HG22	1:D:703:GLY:HA3	1.47	0.96
1:A:672:GLN:HG3	1:A:693:MET:HE2	1.46	0.96
1:D:1229:MET:HA	1:F:877:ARG:CG	1.93	0.96
1:B:876:ASN:CB	1:F:1227:GLU:OE2	2.14	0.96
1:C:505:GLN:HE22	1:C:1001:VAL:N	1.62	0.96
1:D:430:VAL:HG13	1:D:554:GLU:HB2	1.36	0.96
2:K:90:PHE:HB3	2:K:93:ILE:CG2	1.95	0.96
1:A:959:SER:HA	1:A:1369:THR:CG2	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:963:VAL:HG12	1:D:964:MET:N	1.77	0.96
1:D:1227:GLU:OE1	1:F:876:ASN:HB3	1.64	0.96
1:D:1227:GLU:OE2	1:F:876:ASN:CB	2.14	0.96
1:A:505:GLN:HE22	1:A:1001:VAL:N	1.61	0.96
2:G:327:MET:HB2	2:G:346:TRP:CH2	2.00	0.96
1:F:565:THR:HG22	1:F:602:THR:HB	1.44	0.96
1:D:1210:THR:HG22	1:D:1211:LEU:H	1.28	0.96
1:F:959:SER:HA	1:F:1369:THR:CG2	1.96	0.96
1:C:1105:VAL:HA	2:K:54:PHE:CE1	2.01	0.96
2:J:90:PHE:CE2	2:J:203:ARG:HG3	2.01	0.96
1:D:1317:THR:CG2	1:D:1358:GLU:OE1	2.13	0.96
1:D:959:SER:HA	1:D:1369:THR:CG2	1.96	0.96
1:B:1039:LYS:O	1:B:1040:PHE:CD1	2.18	0.96
1:C:1447:TRP:CE2	1:C:1451:VAL:HG22	1.99	0.96
1:B:780:ARG:CZ	2:G:50:CYS:SG	2.54	0.96
1:D:1039:LYS:O	1:D:1040:PHE:CD1	2.18	0.96
1:E:734:LEU:CD1	1:E:738:HIS:HD2	1.79	0.96
2:H:327:MET:HB2	2:H:346:TRP:CH2	2.00	0.96
1:C:139:VAL:HG12	1:C:140:SER:N	1.76	0.96
2:H:90:PHE:HB3	2:H:93:ILE:CG2	1.95	0.96
1:A:1105:VAL:HA	2:J:54:PHE:CE1	2.01	0.96
2:K:108:CYS:SG	2:K:110:ILE:HG12	2.04	0.96
1:C:902:ASN:HB3	1:E:1227:GLU:OE1	1.63	0.96
1:B:253:HIS:H	1:B:260:MET:HE1	1.31	0.96
2:K:71:LEU:HD12	2:K:80:ALA:CB	1.95	0.96
2:I:90:PHE:HB3	2:I:93:ILE:CG2	1.95	0.96
2:H:200:VAL:HA	2:H:203:ARG:HD3	1.47	0.96
1:B:950:THR:HG22	1:B:951:GLU:N	1.78	0.96
1:D:782:ARG:NH2	2:H:51:GLY:N	2.14	0.96
2:K:90:PHE:CE2	2:K:203:ARG:HG3	2.01	0.96
2:L:182:MET:HE2	2:L:216:PRO:HG3	1.46	0.96
1:B:959:SER:HA	1:B:1369:THR:CG2	1.96	0.96
1:E:1105:VAL:HA	2:L:54:PHE:CE1	2.01	0.96
2:J:327:MET:HB2	2:J:346:TRP:CH2	2.00	0.96
1:F:253:HIS:H	1:F:260:MET:HE1	1.31	0.96
1:C:266:VAL:HG12	1:C:279:THR:CG2	1.96	0.96
1:E:266:VAL:HG12	1:E:279:THR:CG2	1.96	0.96
1:A:139:VAL:HG12	1:A:140:SER:N	1.76	0.96
1:F:1317:THR:CG2	1:F:1358:GLU:OE1	2.13	0.96
1:E:1449:ARG:O	1:E:1452:THR:HB	1.66	0.95
2:J:90:PHE:HB3	2:J:93:ILE:CG2	1.95	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1449:ARG:HB3	1:D:1449:ARG:HH11	1.26	0.95
2:G:153:ILE:HD11	8:G:484:FAD:H2A	1.46	0.95
2:H:71:LEU:HD12	2:H:80:ALA:CB	1.94	0.95
2:J:110:ILE:HD13	2:J:118:VAL:HG13	1.49	0.95
1:F:782:ARG:NH2	2:I:51:GLY:N	2.14	0.95
2:I:110:ILE:HD13	2:I:118:VAL:HG13	1.49	0.95
1:D:780:ARG:CZ	2:H:50:CYS:SG	2.54	0.95
1:C:430:VAL:CG1	1:C:554:GLU:CB	2.42	0.95
1:C:778:PHE:CZ	1:C:1039:LYS:HD2	1.99	0.95
1:A:1105:VAL:HA	2:J:54:PHE:HE1	1.31	0.95
1:E:291:ALA:HB3	1:E:292:PRO:HD3	1.46	0.95
2:I:90:PHE:CE2	2:I:203:ARG:HG3	2.01	0.95
1:C:900:GLY:N	1:E:1263:HIS:HE1	1.65	0.95
1:F:782:ARG:HD3	2:I:53:PRO:HD3	1.49	0.95
1:F:780:ARG:CZ	2:I:50:CYS:SG	2.54	0.95
2:H:90:PHE:CE2	2:H:203:ARG:HG3	2.01	0.95
1:B:734:LEU:CD1	1:B:738:HIS:HD2	1.80	0.95
1:B:317:ILE:O	1:B:321:ASN:ND2	1.99	0.95
2:L:110:ILE:HD13	2:L:118:VAL:HG13	1.49	0.95
1:C:900:GLY:CA	1:E:1263:HIS:HE2	1.74	0.95
1:C:1449:ARG:O	1:C:1452:THR:HB	1.66	0.95
1:E:1438:ARG:CB	2:K:376:GLY:CA	2.31	0.95
1:F:652:THR:CG2	1:F:703:GLY:HA3	1.97	0.95
1:F:782:ARG:NH2	2:I:51:GLY:CA	0.80	0.95
1:D:782:ARG:NH2	2:H:51:GLY:CA	0.80	0.95
2:G:44:ALA:HA	2:G:69:LEU:HD11	1.45	0.95
2:L:153:ILE:HD11	8:L:484:FAD:H2A	1.46	0.95
2:H:44:ALA:HA	2:H:69:LEU:HD11	1.45	0.95
1:A:1230:GLN:HB2	1:E:877:ARG:HD3	1.49	0.95
2:L:327:MET:HB2	2:L:346:TRP:CH2	2.00	0.95
2:G:71:LEU:HD12	2:G:80:ALA:CB	1.94	0.95
1:D:30:HIS:ND1	1:D:1238:THR:HA	1.82	0.95
1:D:531:ASN:HB3	1:D:534:ASP:HB2	1.49	0.95
1:D:1221:PRO:HD2	1:D:1229:MET:HE1	1.44	0.95
1:B:900:GLY:O	1:F:1227:GLU:CA	2.14	0.95
1:F:746:ILE:O	1:F:747:SER:O	1.85	0.95
2:K:71:LEU:HG	2:K:79:GLU:HB2	1.47	0.95
2:J:200:VAL:HA	2:J:203:ARG:HD3	1.47	0.95
2:L:71:LEU:HG	2:L:79:GLU:HB2	1.47	0.95
1:E:139:VAL:HG12	1:E:140:SER:N	1.76	0.95
1:B:30:HIS:ND1	1:B:1238:THR:HA	1.82	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1391:MET:HE2	1:A:1458:VAL:CG2	1.96	0.95
1:C:1387:MET:HG2	1:C:1387:MET:O	1.64	0.95
2:K:100:GLN:HB3	2:K:105:GLU:HG2	1.46	0.95
1:C:1438:ARG:CB	2:J:376:GLY:CA	2.31	0.94
1:B:780:ARG:NH2	2:G:50:CYS:SG	2.38	0.94
1:F:452:GLN:NE2	1:F:764:THR:HG21	1.82	0.94
1:D:310:PRO:HG3	1:D:404:ARG:NH2	1.82	0.94
1:B:950:THR:HG22	1:B:952:MET:H	1.32	0.94
1:B:531:ASN:HB3	1:B:534:ASP:HB2	1.49	0.94
2:K:118:VAL:HG21	7:K:483:SF4:S4	2.07	0.94
1:D:253:HIS:H	1:D:260:MET:HE1	1.31	0.94
1:D:728:ILE:HD12	1:D:1047:MET:HE3	1.46	0.94
1:B:452:GLN:NE2	1:B:764:THR:HG21	1.82	0.94
1:D:447:LEU:HD12	1:D:451:GLN:HG3	1.50	0.94
2:K:44:ALA:HA	2:K:69:LEU:HD11	1.45	0.94
2:L:80:ALA:HB3	2:L:127:ILE:HG12	1.49	0.94
2:I:100:GLN:HB3	2:I:105:GLU:HG2	1.46	0.94
2:L:305:VAL:CG1	2:L:342:VAL:HG21	1.97	0.94
1:E:447:LEU:HD21	1:E:674:ALA:HA	1.46	0.94
1:B:182:MET:CE	1:B:217:PRO:HB3	1.95	0.94
1:B:782:ARG:NH2	2:G:51:GLY:CA	0.80	0.94
2:G:90:PHE:CE2	2:G:203:ARG:HG3	2.01	0.94
1:F:310:PRO:HG3	1:F:404:ARG:NH2	1.82	0.94
1:B:310:PRO:HG3	1:B:404:ARG:NH2	1.82	0.94
1:F:317:ILE:O	1:F:321:ASN:ND2	1.99	0.94
2:I:305:VAL:CG1	2:I:342:VAL:HG21	1.97	0.94
1:B:1227:GLU:OE1	1:D:876:ASN:HB3	1.64	0.94
1:D:787:ARG:HH12	1:D:821:PRO:HG2	1.25	0.94
2:H:110:ILE:HD13	2:H:118:VAL:HG13	1.49	0.94
1:B:782:ARG:NH2	2:G:51:GLY:N	2.14	0.94
2:G:110:ILE:HD13	2:G:118:VAL:HG13	1.49	0.94
1:D:253:HIS:CG	1:D:254:PRO:CD	2.51	0.94
1:F:447:LEU:HD12	1:F:451:GLN:HG3	1.50	0.94
2:K:200:VAL:HA	2:K:203:ARG:HD3	1.47	0.94
2:I:153:ILE:HD11	8:I:484:FAD:H2A	1.46	0.94
2:I:80:ALA:HB3	2:I:127:ILE:HG12	1.49	0.94
2:K:305:VAL:CG1	2:K:342:VAL:HG21	1.97	0.94
1:C:426:LEU:HD22	1:C:543:LEU:HB3	1.47	0.94
1:D:145:GLU:OE1	1:D:173:SER:HB2	1.68	0.94
2:H:305:VAL:CG1	2:H:342:VAL:HG21	1.97	0.94
1:B:387:PRO:HD3	1:B:1344:GLU:OE2	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:167:ARG:CG	2:I:210:ALA:HB1	1.98	0.94
2:J:153:ILE:HD11	8:J:484:FAD:H2A	1.46	0.94
2:H:71:LEU:HD21	2:H:76:ARG:HB2	1.50	0.94
1:C:1210:THR:CG2	1:C:1211:LEU:H	1.76	0.94
1:A:877:ARG:HD3	1:C:1230:GLN:HB2	1.49	0.94
1:A:1263:HIS:HE2	1:E:900:GLY:CA	1.74	0.94
1:A:734:LEU:CD1	1:A:738:HIS:HD2	1.79	0.94
2:G:181:ARG:HG3	2:G:187:VAL:HG11	1.49	0.94
2:J:167:ARG:CG	2:J:210:ALA:HB1	1.98	0.94
1:D:513:SER:HB3	1:D:520:MET:CE	1.95	0.94
1:B:1227:GLU:CA	1:D:900:GLY:O	2.15	0.94
1:A:1449:ARG:O	1:A:1452:THR:HB	1.66	0.94
1:B:1349:ARG:CG	1:B:1349:ARG:HH11	1.72	0.94
2:L:90:PHE:CE2	2:L:203:ARG:HG3	2.01	0.94
1:F:30:HIS:ND1	1:F:1238:THR:HA	1.82	0.94
1:C:214:ASN:O	1:C:1015:LYS:HE2	1.67	0.94
1:C:999:LYS:HG3	1:C:1022:LEU:HD23	1.49	0.94
1:D:317:ILE:O	1:D:321:ASN:ND2	1.99	0.94
2:K:110:ILE:HD13	2:K:118:VAL:HG13	1.49	0.94
1:D:1227:GLU:CA	1:F:900:GLY:O	2.15	0.94
1:C:877:ARG:HD3	1:E:1230:GLN:HB2	1.49	0.94
1:A:266:VAL:HG12	1:A:279:THR:CG2	1.96	0.94
1:D:825:LEU:CD1	1:D:1186:ARG:NH1	2.17	0.94
1:A:875:MET:CE	1:A:1139:PHE:HE2	1.73	0.94
1:C:734:LEU:CD1	1:C:738:HIS:HD2	1.79	0.94
2:L:167:ARG:CG	2:L:210:ALA:HB1	1.98	0.94
1:E:113:ASN:HD22	1:E:113:ASN:C	1.59	0.94
1:A:426:LEU:HD22	1:A:543:LEU:HB3	1.47	0.94
2:J:305:VAL:HG13	2:J:342:VAL:HG21	1.50	0.94
1:E:426:LEU:HD22	1:E:543:LEU:HB3	1.47	0.94
1:B:920:GLU:HB3	1:B:1256:MET:HE2	1.49	0.94
1:F:145:GLU:OE1	1:F:173:SER:HB2	1.68	0.94
1:F:387:PRO:HD3	1:F:1344:GLU:OE2	1.67	0.94
2:K:327:MET:HB2	2:K:346:TRP:CZ2	2.03	0.94
2:G:71:LEU:HG	2:G:79:GLU:HB2	1.47	0.94
2:L:44:ALA:HA	2:L:69:LEU:HD11	1.45	0.94
2:H:167:ARG:CG	2:H:210:ALA:HB1	1.98	0.94
1:D:652:THR:CG2	1:D:703:GLY:HA3	1.97	0.94
1:E:782:ARG:CG	2:L:53:PRO:N	2.30	0.94
1:C:782:ARG:CG	2:K:53:PRO:N	2.30	0.94
1:A:1438:ARG:HB2	2:L:376:GLY:H	1.33	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:449:LEU:HD11	2:G:451:VAL:HG12	1.49	0.94
1:A:52:GLN:HE22	1:A:71:LEU:H	1.15	0.94
2:H:182:MET:HE2	2:H:216:PRO:HG3	1.49	0.94
1:A:345:MET:HG3	1:A:346:ASP:N	1.72	0.94
1:B:1008:THR:HG22	1:B:1009:ILE:N	1.82	0.94
1:F:652:THR:HG22	1:F:703:GLY:HA3	1.47	0.94
1:F:313:HIS:O	1:F:317:ILE:HG13	1.68	0.94
1:B:1210:THR:HG22	1:B:1211:LEU:H	1.28	0.94
1:D:387:PRO:HD3	1:D:1344:GLU:OE2	1.67	0.94
1:A:782:ARG:CG	2:J:53:PRO:N	2.30	0.93
1:B:746:ILE:O	1:B:747:SER:O	1.85	0.93
2:K:321:ARG:HB2	2:K:351:GLU:HG2	1.49	0.93
2:I:327:MET:HB2	2:I:346:TRP:CZ2	2.03	0.93
2:I:200:VAL:HA	2:I:203:ARG:HD3	1.47	0.93
2:L:305:VAL:HG13	2:L:342:VAL:HG21	1.50	0.93
2:J:305:VAL:CG1	2:J:342:VAL:HG21	1.97	0.93
1:F:531:ASN:HB3	1:F:534:ASP:HB2	1.49	0.93
1:F:1449:ARG:CZ	1:F:1449:ARG:HB2	1.98	0.93
1:F:253:HIS:CG	1:F:254:PRO:CD	2.51	0.93
2:K:181:ARG:HG3	2:K:187:VAL:HG11	1.49	0.93
2:J:429:THR:HG21	2:J:431:MET:HE1	1.50	0.93
2:J:61:VAL:HG22	2:J:87:THR:HB	1.51	0.93
1:F:706:LYS:NZ	1:F:940:GLU:OE1	2.02	0.93
1:F:139:VAL:HG12	1:F:140:SER:H	1.19	0.93
2:I:305:VAL:HG13	2:I:342:VAL:HG21	1.50	0.93
1:E:950:THR:HG22	1:E:951:GLU:N	1.83	0.93
1:D:777:GLY:CA	2:H:52:VAL:HG12	1.99	0.93
2:J:71:LEU:HD21	2:J:76:ARG:HB2	1.50	0.93
1:B:652:THR:CG2	1:B:703:GLY:HA3	1.97	0.93
1:E:782:ARG:CG	2:L:52:VAL:C	2.17	0.93
2:K:31:ILE:HD13	2:K:336:HIS:CD2	2.04	0.93
2:K:449:LEU:HD11	2:K:451:VAL:HG12	1.49	0.93
2:H:31:ILE:HD13	2:H:336:HIS:CD2	2.03	0.93
1:E:999:LYS:HG3	1:E:1022:LEU:HD23	1.49	0.93
2:J:118:VAL:HG21	7:J:483:SF4:S4	2.07	0.93
2:L:118:VAL:HG21	7:L:483:SF4:S4	2.07	0.93
2:G:118:VAL:HG21	7:G:483:SF4:S4	2.07	0.93
1:D:746:ILE:O	1:D:747:SER:O	1.85	0.93
2:G:167:ARG:CG	2:G:210:ALA:HB1	1.98	0.93
2:K:167:ARG:CG	2:K:210:ALA:HB1	1.98	0.93
1:D:734:LEU:CD1	1:D:738:HIS:HD2	1.80	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:118:VAL:HG21	7:I:483:SF4:S4	2.07	0.93
1:A:290:THR:CG2	1:A:292:PRO:CD	2.46	0.93
1:C:1366:GLU:HG2	1:C:1367:TYR:CD2	2.04	0.93
2:K:186:LEU:HD23	2:K:195:LEU:CD2	1.99	0.93
2:I:259:VAL:CG2	2:I:264:TYR:HB2	1.99	0.93
2:L:77:LEU:HD23	2:L:127:ILE:HA	1.51	0.93
2:L:200:VAL:HA	2:L:203:ARG:HD3	1.47	0.93
1:D:706:LYS:NZ	1:D:940:GLU:OE1	2.02	0.93
1:F:768:GLU:HG2	1:F:769:GLU:H	1.34	0.93
1:F:734:LEU:CD1	1:F:738:HIS:HD2	1.80	0.93
1:A:447:LEU:HD21	1:A:674:ALA:HA	1.46	0.93
1:E:780:ARG:CD	2:L:51:GLY:O	2.17	0.93
2:H:118:VAL:HG21	7:H:483:SF4:S4	2.07	0.93
1:B:777:GLY:HA2	2:G:52:VAL:HG12	1.50	0.93
1:E:266:VAL:HG12	1:E:279:THR:HG23	1.51	0.93
1:B:447:LEU:HD12	1:B:451:GLN:HG3	1.50	0.93
1:E:875:MET:CE	1:E:1139:PHE:HE2	1.73	0.93
1:A:1366:GLU:HG2	1:A:1367:TYR:CD2	2.04	0.93
2:H:181:ARG:HG3	2:H:187:VAL:HG11	1.49	0.93
2:L:449:LEU:HD11	2:L:451:VAL:HG12	1.49	0.93
1:B:1317:THR:HG21	1:B:1358:GLU:OE1	1.69	0.93
1:E:404:ARG:HB3	1:E:405:GLU:OE1	1.69	0.93
1:B:145:GLU:OE1	1:B:173:SER:HB2	1.68	0.93
1:E:1076:GLY:HA3	1:E:1145:GLU:HG2	1.51	0.93
2:L:327:MET:HB2	2:L:346:TRP:CZ2	2.04	0.93
2:H:327:MET:HB2	2:H:346:TRP:CZ2	2.04	0.93
1:A:404:ARG:HB3	1:A:405:GLU:OE1	1.69	0.93
1:D:950:THR:CG2	1:D:951:GLU:N	2.31	0.93
1:F:777:GLY:CA	2:I:52:VAL:HG12	1.99	0.93
1:B:253:HIS:CG	1:B:254:PRO:CD	2.51	0.93
1:D:452:GLN:NE2	1:D:764:THR:HG21	1.82	0.93
2:G:80:ALA:HB3	2:G:127:ILE:HG12	1.49	0.93
2:K:259:VAL:CG2	2:K:264:TYR:HB2	1.99	0.93
2:L:71:LEU:HD21	2:L:76:ARG:HB2	1.50	0.93
1:C:404:ARG:HB3	1:C:405:GLU:OE1	1.69	0.93
1:C:1076:GLY:HA3	1:C:1145:GLU:HG2	1.51	0.93
1:E:1366:GLU:HG2	1:E:1367:TYR:CD2	2.04	0.93
2:I:61:VAL:HG22	2:I:87:THR:HB	1.51	0.93
2:L:259:VAL:CG2	2:L:264:TYR:HB2	1.99	0.93
2:H:186:LEU:HD23	2:H:195:LEU:CD2	1.99	0.93
2:H:61:VAL:HG22	2:H:87:THR:HB	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1008:THR:HG22	1:D:1009:ILE:N	1.82	0.93
1:B:950:THR:CG2	1:B:951:GLU:N	2.32	0.93
1:A:999:LYS:HG3	1:A:1022:LEU:HD23	1.49	0.93
1:C:875:MET:HE2	1:C:1139:PHE:CE2	2.01	0.92
2:G:186:LEU:HD23	2:G:195:LEU:CD2	1.99	0.92
2:G:71:LEU:HD21	2:G:76:ARG:HB2	1.50	0.92
1:B:464:ILE:HD11	1:B:779:TYR:CZ	2.04	0.92
1:A:958:HIS:O	1:A:1369:THR:CG2	2.17	0.92
1:E:510:PRO:HD2	1:E:970:PRO:HB3	1.51	0.92
1:A:510:PRO:HD2	1:A:970:PRO:HB3	1.52	0.92
2:G:77:LEU:HD23	2:G:127:ILE:HA	1.51	0.92
2:G:305:VAL:CG1	2:G:342:VAL:HG21	1.97	0.92
2:L:181:ARG:HG3	2:L:187:VAL:HG11	1.49	0.92
2:H:80:ALA:HB3	2:H:127:ILE:HG12	1.49	0.92
1:A:780:ARG:CD	2:J:51:GLY:O	2.17	0.92
1:A:900:GLY:CA	1:C:1263:HIS:HE2	1.74	0.92
1:A:505:GLN:HE22	1:A:1001:VAL:H	0.93	0.92
2:G:200:VAL:HA	2:G:203:ARG:HD3	1.47	0.92
2:I:321:ARG:HB2	2:I:351:GLU:HG2	1.49	0.92
2:H:244:LYS:CD	2:H:404:GLU:HB3	1.99	0.92
2:G:327:MET:HB2	2:G:346:TRP:CZ2	2.03	0.92
1:B:139:VAL:HG12	1:B:140:SER:H	1.19	0.92
1:A:1076:GLY:HA3	1:A:1145:GLU:HG2	1.51	0.92
2:J:327:MET:HB2	2:J:346:TRP:CZ2	2.03	0.92
2:H:259:VAL:CG2	2:H:264:TYR:HB2	1.99	0.92
2:H:321:ARG:HB2	2:H:351:GLU:HG2	1.49	0.92
2:J:31:ILE:HD13	2:J:336:HIS:CD2	2.04	0.92
2:L:31:ILE:HD13	2:L:336:HIS:CD2	2.03	0.92
1:B:706:LYS:NZ	1:B:940:GLU:OE1	2.02	0.92
1:D:464:ILE:HD11	1:D:779:TYR:CZ	2.04	0.92
1:E:214:ASN:O	1:E:1015:LYS:HE2	1.67	0.92
1:B:313:HIS:O	1:B:317:ILE:HG13	1.68	0.92
1:D:182:MET:HE3	1:D:217:PRO:HB3	1.49	0.92
2:J:321:ARG:HB2	2:J:351:GLU:HG2	1.49	0.92
1:B:782:ARG:HD3	2:G:53:PRO:HD3	1.49	0.92
2:K:61:VAL:HG22	2:K:87:THR:HB	1.51	0.92
2:H:440:ALA:HB1	2:H:456:ASP:CB	2.00	0.92
1:A:214:ASN:O	1:A:1015:LYS:HE2	1.67	0.92
1:F:950:THR:HG22	1:F:952:MET:H	1.32	0.92
1:D:313:HIS:O	1:D:317:ILE:HG13	1.68	0.92
1:D:920:GLU:HB3	1:D:1256:MET:HE2	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:828:LEU:HD22	1:D:1172:SER:HA	1.50	0.92
1:F:920:GLU:HB3	1:F:1256:MET:HE2	1.49	0.92
1:E:672:GLN:HG3	1:E:693:MET:HE2	1.49	0.92
1:C:1105:VAL:HA	2:K:54:PHE:HE1	1.31	0.92
1:B:1449:ARG:CZ	1:B:1449:ARG:HB2	1.98	0.92
2:G:31:ILE:HD13	2:G:336:HIS:CD2	2.04	0.92
2:K:244:LYS:CD	2:K:404:GLU:HB3	1.99	0.92
2:K:440:ALA:HB1	2:K:456:ASP:CB	2.00	0.92
2:I:31:ILE:HD13	2:I:336:HIS:CD2	2.04	0.92
2:I:71:LEU:HD21	2:I:76:ARG:HB2	1.50	0.92
2:H:447:ALA:HB1	2:H:452:TRP:CE3	2.05	0.92
1:A:838:VAL:CG1	1:A:839:PRO:HD2	2.00	0.92
1:B:242:ASN:HD22	1:B:242:ASN:H	1.10	0.92
1:F:464:ILE:HD11	1:F:779:TYR:CZ	2.04	0.92
1:E:958:HIS:O	1:E:1369:THR:CG2	2.17	0.92
1:A:582:LEU:H	1:A:755:GLN:HE22	1.18	0.92
1:B:826:ARG:HG2	1:B:826:ARG:HH11	1.35	0.92
2:L:321:ARG:HB2	2:L:351:GLU:HG2	1.49	0.92
2:J:80:ALA:HB3	2:J:127:ILE:HG12	1.49	0.92
1:B:1221:PRO:HD2	1:B:1229:MET:HE1	1.50	0.92
2:H:305:VAL:HG13	2:H:342:VAL:HG21	1.50	0.92
4:F:2474:FMN:C1'	4:F:2474:FMN:O4'	2.10	0.92
1:D:1449:ARG:CZ	1:D:1449:ARG:HB2	1.98	0.92
1:D:782:ARG:HD3	2:H:53:PRO:HD3	1.49	0.92
2:H:319:LEU:HD11	2:H:369:LEU:CD2	2.00	0.92
1:F:242:ASN:HD22	1:F:242:ASN:H	1.10	0.92
1:A:299:VAL:O	1:A:299:VAL:HG12	1.69	0.92
1:A:826:ARG:NH1	1:A:826:ARG:HG2	1.83	0.92
1:B:899:ASN:C	1:F:1263:HIS:CE1	2.43	0.92
2:J:319:LEU:HD11	2:J:369:LEU:CD2	2.00	0.92
2:G:440:ALA:HB1	2:G:456:ASP:CB	2.00	0.92
2:J:259:VAL:CG2	2:J:264:TYR:HB2	1.99	0.92
1:E:838:VAL:CG1	1:E:839:PRO:HD2	2.00	0.92
1:F:1317:THR:HG21	1:F:1358:GLU:OE1	1.69	0.92
1:F:1008:THR:HG22	1:F:1009:ILE:N	1.82	0.92
2:I:167:ARG:HG2	2:I:210:ALA:CB	2.00	0.92
1:F:213:THR:HB	1:F:1008:THR:HG23	1.52	0.92
1:A:777:GLY:HA2	2:J:52:VAL:HG12	1.53	0.91
1:A:783:LYS:N	2:J:57:VAL:CG2	2.33	0.91
1:A:1263:HIS:HE1	1:E:900:GLY:N	1.65	0.91
1:C:510:PRO:HD2	1:C:970:PRO:HB3	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:429:THR:HG21	2:G:431:MET:HE1	1.52	0.91
1:E:52:GLN:HE22	1:E:71:LEU:H	1.16	0.91
2:J:440:ALA:HB1	2:J:456:ASP:CB	2.00	0.91
2:L:186:LEU:HD23	2:L:195:LEU:CD2	1.99	0.91
1:A:218:THR:HG23	1:A:220:PRO:HD2	1.53	0.91
1:C:780:ARG:CD	2:K:51:GLY:O	2.17	0.91
1:B:452:GLN:NE2	1:B:764:THR:CG2	2.33	0.91
2:G:430:LYS:CD	2:G:460:ALA:HB2	2.01	0.91
2:K:80:ALA:HB3	2:K:127:ILE:HG12	1.49	0.91
2:G:182:MET:HE2	2:G:216:PRO:HG3	1.50	0.91
2:I:77:LEU:HD23	2:I:127:ILE:HA	1.51	0.91
2:J:167:ARG:HG2	2:J:210:ALA:CB	2.00	0.91
2:G:321:ARG:HB2	2:G:351:GLU:HG2	1.49	0.91
2:G:259:VAL:CG2	2:G:264:TYR:HB2	1.99	0.91
2:L:244:LYS:CD	2:L:404:GLU:HB3	1.99	0.91
1:E:464:ILE:HD11	1:E:779:TYR:CE1	2.05	0.91
1:E:1105:VAL:HA	2:L:54:PHE:HE1	1.31	0.91
1:F:728:ILE:HD12	1:F:1047:MET:HE3	1.48	0.91
1:D:452:GLN:NE2	1:D:764:THR:CG2	2.33	0.91
2:G:305:VAL:HG13	2:G:342:VAL:HG21	1.50	0.91
2:G:447:ALA:HB1	2:G:452:TRP:CE3	2.05	0.91
2:J:181:ARG:HG3	2:J:187:VAL:HG11	1.49	0.91
2:K:430:LYS:CD	2:K:460:ALA:HB2	2.01	0.91
2:I:449:LEU:HD11	2:I:451:VAL:HG12	1.49	0.91
2:H:449:LEU:HD11	2:H:451:VAL:HG12	1.49	0.91
2:I:181:ARG:HG3	2:I:187:VAL:HG11	1.49	0.91
1:C:950:THR:HG22	1:C:951:GLU:N	1.82	0.91
1:A:950:THR:HG22	1:A:951:GLU:N	1.82	0.91
1:D:768:GLU:HG2	1:D:769:GLU:H	1.34	0.91
1:F:1170:GLN:O	1:F:1170:GLN:HG2	1.69	0.91
1:F:826:ARG:HH11	1:F:826:ARG:HG2	1.35	0.91
1:B:464:ILE:CD1	1:B:779:TYR:CE2	2.54	0.91
1:A:464:ILE:HD11	1:A:779:TYR:CE1	2.05	0.91
1:E:781:PHE:CE2	2:L:57:VAL:HG21	2.05	0.91
2:J:244:LYS:CD	2:J:404:GLU:HB3	1.99	0.91
1:C:838:VAL:CG1	1:C:839:PRO:HD2	2.00	0.91
1:D:1366:GLU:HG2	1:D:1367:TYR:CD2	2.05	0.91
1:D:242:ASN:H	1:D:242:ASN:HD22	1.10	0.91
1:A:783:LYS:HA	2:J:57:VAL:HG22	0.92	0.91
1:F:254:PRO:HG2	1:F:255:ALA:H	1.36	0.91
2:K:71:LEU:HD21	2:K:76:ARG:HB2	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:430:LYS:CD	2:L:460:ALA:HB2	2.01	0.91
2:L:440:ALA:HB1	2:L:456:ASP:CB	2.00	0.91
1:C:958:HIS:O	1:C:1369:THR:CG2	2.17	0.91
2:K:305:VAL:HG13	2:K:342:VAL:HG21	1.50	0.91
2:L:367:ILE:HG23	2:L:390:VAL:CG2	2.01	0.91
1:A:266:VAL:O	1:A:279:THR:HG21	1.71	0.91
2:H:345:ILE:H	2:H:345:ILE:HD13	1.36	0.91
2:L:447:ALA:HB1	2:L:452:TRP:CE3	2.05	0.91
2:L:61:VAL:HG22	2:L:87:THR:HB	1.51	0.91
2:I:244:LYS:CD	2:I:404:GLU:HB3	1.99	0.91
1:E:826:ARG:NH1	1:E:826:ARG:HG2	1.83	0.91
1:F:464:ILE:CD1	1:F:779:TYR:CE2	2.54	0.91
1:E:102:TYR:CE2	1:E:144:PHE:HE1	1.88	0.91
1:B:1263:HIS:CE1	1:D:899:ASN:C	2.43	0.91
1:C:781:PHE:CE2	2:K:57:VAL:HG21	2.05	0.91
1:C:783:LYS:N	2:K:57:VAL:CG2	2.33	0.91
2:L:319:LEU:HD11	2:L:369:LEU:CD2	2.00	0.91
1:B:782:ARG:HH21	2:G:51:GLY:C	1.57	0.91
2:K:345:ILE:H	2:K:345:ILE:HD13	1.36	0.91
1:E:505:GLN:HE22	1:E:1001:VAL:H	0.93	0.91
2:I:447:ALA:HB1	2:I:452:TRP:CE3	2.05	0.91
2:H:61:VAL:CG2	2:H:87:THR:HB	2.01	0.91
1:E:299:VAL:HG12	1:E:299:VAL:O	1.69	0.91
1:A:102:TYR:CE2	1:A:144:PHE:HE1	1.88	0.91
1:E:182:MET:HE3	1:E:217:PRO:C	1.90	0.91
2:G:244:LYS:CD	2:G:404:GLU:HB3	1.99	0.91
1:B:768:GLU:HG2	1:B:769:GLU:H	1.34	0.91
1:C:582:LEU:H	1:C:755:GLN:HE22	1.18	0.91
1:D:1263:HIS:CE1	1:F:899:ASN:C	2.43	0.91
1:C:266:VAL:HG12	1:C:279:THR:HG23	1.51	0.91
2:G:61:VAL:HG22	2:G:87:THR:HB	1.51	0.91
1:A:59:VAL:CG2	1:A:105:TYR:HD2	1.82	0.91
2:I:319:LEU:HD11	2:I:369:LEU:CD2	2.00	0.91
2:K:61:VAL:CG2	2:K:87:THR:HB	2.01	0.91
2:I:440:ALA:HB1	2:I:456:ASP:CB	2.00	0.91
2:J:447:ALA:HB1	2:J:452:TRP:CE3	2.05	0.91
2:G:319:LEU:HD11	2:G:369:LEU:CD2	2.00	0.91
2:L:167:ARG:HG2	2:L:210:ALA:CB	2.00	0.91
2:H:430:LYS:CD	2:H:460:ALA:HB2	2.01	0.91
1:D:704:LEU:O	1:D:706:LYS:N	2.04	0.91
1:D:950:THR:HG22	1:D:952:MET:H	1.32	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:2474:FMN:H1'2	4:D:2474:FMN:O4'	1.69	0.91
1:F:828:LEU:HD22	1:F:1172:SER:HA	1.50	0.91
1:A:781:PHE:C	2:J:52:VAL:CB	2.39	0.90
1:B:1170:GLN:HG2	1:B:1170:GLN:O	1.68	0.90
2:H:367:ILE:HG23	2:H:390:VAL:CG2	2.01	0.90
1:D:1317:THR:HG21	1:D:1358:GLU:OE1	1.69	0.90
1:D:838:VAL:HG13	1:D:839:PRO:HD2	1.53	0.90
1:C:902:ASN:HD22	1:E:1227:GLU:HG3	1.35	0.90
2:J:367:ILE:HG23	2:J:390:VAL:CG2	2.01	0.90
2:J:61:VAL:CG2	2:J:87:THR:HB	2.01	0.90
2:H:167:ARG:HG2	2:H:210:ALA:CB	2.00	0.90
1:B:1366:GLU:HG2	1:B:1367:TYR:CD2	2.05	0.90
1:D:826:ARG:HH11	1:D:826:ARG:HG2	1.35	0.90
1:A:902:ASN:HD22	1:C:1227:GLU:HG3	1.35	0.90
2:J:345:ILE:HD13	2:J:345:ILE:H	1.36	0.90
1:A:153:ARG:NH2	1:A:263:LEU:O	2.04	0.90
1:C:290:THR:CG2	1:C:292:PRO:CD	2.46	0.90
2:I:367:ILE:HG23	2:I:390:VAL:CG2	2.01	0.90
2:K:447:ALA:HB1	2:K:452:TRP:CE3	2.05	0.90
1:C:387:PRO:CD	1:C:1344:GLU:OE2	2.19	0.90
1:E:218:THR:HG23	1:E:220:PRO:HD2	1.52	0.90
1:A:862:ALA:O	1:A:1118:CYS:HB2	1.71	0.90
1:C:1438:ARG:HB3	2:J:376:GLY:N	1.84	0.90
1:E:266:VAL:O	1:E:279:THR:HG21	1.71	0.90
1:E:511:ILE:HG22	1:E:512:ASP:N	1.86	0.90
1:C:862:ALA:O	1:C:1118:CYS:HB2	1.71	0.90
1:A:781:PHE:CE2	2:J:57:VAL:HG21	2.05	0.90
1:C:182:MET:HE3	1:C:217:PRO:C	1.91	0.90
2:K:367:ILE:HG23	2:K:390:VAL:CG2	2.01	0.90
1:C:266:VAL:O	1:C:279:THR:HG21	1.71	0.90
1:C:783:LYS:HA	2:K:57:VAL:HG22	0.92	0.90
1:C:781:PHE:C	2:K:52:VAL:CB	2.39	0.90
2:K:319:LEU:HD11	2:K:369:LEU:CD2	2.00	0.90
1:B:254:PRO:HG2	1:B:255:ALA:H	1.36	0.90
2:G:345:ILE:HD13	2:G:345:ILE:H	1.36	0.90
1:B:704:LEU:O	1:B:706:LYS:N	2.04	0.90
1:D:464:ILE:CD1	1:D:779:TYR:CE2	2.54	0.90
1:D:213:THR:HB	1:D:1008:THR:HG23	1.52	0.90
4:F:2474:FMN:H1'2	4:F:2474:FMN:O4'	1.69	0.90
1:C:464:ILE:HD11	1:C:779:TYR:CE1	2.05	0.90
1:D:1263:HIS:CE1	1:F:900:GLY:N	2.20	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:777:GLY:HA2	2:I:52:VAL:HG12	1.50	0.90
1:A:266:VAL:HG12	1:A:279:THR:HG23	1.50	0.90
2:I:367:ILE:HD12	2:I:369:LEU:HD12	1.53	0.90
2:H:153:ILE:HD13	2:H:220:VAL:HG13	1.53	0.90
2:J:418:THR:CG2	2:J:422:THR:HG23	2.02	0.90
2:H:418:THR:CG2	2:H:422:THR:HG23	2.02	0.90
1:F:659:ILE:HA	1:F:663:ALA:HB3	1.54	0.90
1:B:155:ILE:O	1:B:159:VAL:HG23	1.71	0.90
1:A:1227:GLU:HG3	1:E:902:ASN:HD22	1.35	0.90
2:J:153:ILE:HD13	2:J:220:VAL:HG13	1.53	0.90
1:E:387:PRO:CD	1:E:1344:GLU:OE2	2.19	0.90
1:B:213:THR:HB	1:B:1008:THR:HG23	1.52	0.90
1:C:218:THR:HG23	1:C:220:PRO:HD2	1.52	0.90
1:B:588:ARG:O	1:B:592:GLU:HG3	1.72	0.90
1:C:900:GLY:HA2	1:E:1263:HIS:HE2	1.37	0.90
1:F:1438:ARG:HD2	2:G:377:ARG:N	1.49	0.90
2:G:418:THR:CG2	2:G:422:THR:HG23	2.02	0.90
1:B:1230:GLN:N	1:D:877:ARG:HG2	1.86	0.90
1:C:299:VAL:HG12	1:C:299:VAL:O	1.69	0.90
1:C:950:THR:CG2	1:C:951:GLU:N	2.35	0.90
1:E:862:ALA:O	1:E:1118:CYS:HB2	1.71	0.90
1:E:783:LYS:N	2:L:57:VAL:CG2	2.33	0.90
1:D:1230:GLN:N	1:F:877:ARG:HG2	1.86	0.90
1:D:777:GLY:HA2	2:H:52:VAL:HG12	1.50	0.90
1:F:825:LEU:CD1	1:F:1186:ARG:NH1	2.17	0.90
2:H:257:ASN:OD1	2:H:394:LEU:HA	1.72	0.90
2:I:186:LEU:HD23	2:I:195:LEU:CD2	1.99	0.90
2:G:257:ASN:OD1	2:G:394:LEU:HA	1.72	0.90
1:F:704:LEU:O	1:F:706:LYS:N	2.04	0.90
2:H:77:LEU:HD23	2:H:127:ILE:HA	1.51	0.90
1:F:950:THR:CG2	1:F:951:GLU:N	2.32	0.90
1:D:588:ARG:O	1:D:592:GLU:HG3	1.72	0.90
2:G:167:ARG:HG2	2:G:210:ALA:CB	2.00	0.89
2:I:61:VAL:CG2	2:I:87:THR:HB	2.01	0.89
2:J:449:LEU:HD11	2:J:451:VAL:HG12	1.49	0.89
1:F:139:VAL:CG1	1:F:140:SER:N	2.35	0.89
1:A:387:PRO:CD	1:A:1344:GLU:OE2	2.19	0.89
2:I:418:THR:CG2	2:I:422:THR:HG23	2.02	0.89
2:K:418:THR:CG2	2:K:422:THR:HG23	2.02	0.89
1:E:781:PHE:C	2:L:52:VAL:CB	2.39	0.89
1:C:1438:ARG:HB2	2:J:376:GLY:CA	1.97	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:61:VAL:CG2	2:G:87:THR:HB	2.01	0.89
1:C:52:GLN:HE22	1:C:71:LEU:H	1.15	0.89
2:K:167:ARG:HG2	2:K:210:ALA:CB	2.00	0.89
2:J:175:VAL:HG11	2:J:214:TYR:CD2	2.08	0.89
2:G:367:ILE:HG23	2:G:390:VAL:CG2	2.01	0.89
1:C:236:THR:HG21	1:C:328:ASP:N	1.86	0.89
2:L:61:VAL:CG2	2:L:87:THR:HB	2.01	0.89
2:L:418:THR:CG2	2:L:422:THR:HG23	2.02	0.89
2:K:366:ARG:HE	2:K:391:GLN:HG2	1.37	0.89
1:B:918:THR:HG22	1:B:921:TYR:H	1.38	0.89
1:A:950:THR:CG2	1:A:951:GLU:N	2.35	0.89
1:F:588:ARG:O	1:F:592:GLU:HG3	1.72	0.89
1:F:155:ILE:O	1:F:159:VAL:HG23	1.71	0.89
1:D:659:ILE:HA	1:D:663:ALA:HB3	1.54	0.89
1:E:783:LYS:HA	2:L:57:VAL:HG22	0.91	0.89
2:L:345:ILE:H	2:L:345:ILE:HD13	1.36	0.89
2:I:430:LYS:CD	2:I:460:ALA:HB2	2.01	0.89
2:G:322:ARG:HG3	2:G:323:ASP:H	1.37	0.89
1:B:139:VAL:HG11	1:B:143:GLN:CB	2.02	0.89
1:E:236:THR:HG21	1:E:328:ASP:N	1.86	0.89
1:F:437:GLY:HA2	1:F:690:GLU:OE2	1.73	0.89
1:D:526:LEU:HD12	1:D:526:LEU:N	1.88	0.89
1:C:777:GLY:CA	2:K:52:VAL:HG12	2.02	0.89
1:C:777:GLY:HA2	2:K:52:VAL:HG12	1.53	0.89
1:E:153:ARG:NH2	1:E:263:LEU:O	2.04	0.89
1:C:227:MET:HE3	1:C:282:GLU:HA	1.54	0.89
1:E:52:GLN:NE2	1:E:71:LEU:H	1.70	0.89
1:F:515:ARG:HH22	1:F:966:ILE:HB	1.37	0.89
1:E:960:THR:HG22	1:E:963:VAL:CG2	2.03	0.89
1:D:155:ILE:O	1:D:159:VAL:HG23	1.71	0.89
1:B:828:LEU:HD22	1:B:1172:SER:HA	1.50	0.89
1:C:403:ASP:OD1	1:C:407:LYS:NZ	2.05	0.89
1:B:877:ARG:HG2	1:F:1230:GLN:N	1.86	0.89
2:K:367:ILE:HD12	2:K:369:LEU:HD12	1.53	0.89
1:F:452:GLN:NE2	1:F:764:THR:CG2	2.33	0.89
2:I:175:VAL:HG11	2:I:214:TYR:CD2	2.08	0.89
2:G:367:ILE:HD12	2:G:369:LEU:HD12	1.53	0.89
1:F:1366:GLU:HG2	1:F:1367:TYR:CD2	2.05	0.89
1:A:236:THR:HG21	1:A:328:ASP:N	1.86	0.89
2:G:366:ARG:HE	2:G:391:GLN:HG2	1.37	0.89
2:H:366:ARG:HE	2:H:391:GLN:HG2	1.37	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:570:ASP:OD1	1:D:572:THR:HB	1.73	0.89
2:L:246:ARG:HD3	2:L:399:LEU:HB3	1.55	0.89
2:J:246:ARG:HD3	2:J:399:LEU:HB3	1.55	0.89
1:E:777:GLY:CA	2:L:52:VAL:HG12	2.02	0.89
1:B:900:GLY:N	1:F:1263:HIS:CE1	2.20	0.89
1:C:153:ARG:NH2	1:C:263:LEU:O	2.04	0.89
1:D:254:PRO:HG2	1:D:255:ALA:H	1.36	0.89
1:E:290:THR:CG2	1:E:292:PRO:CD	2.46	0.89
1:D:1170:GLN:HG2	1:D:1170:GLN:O	1.68	0.89
2:J:257:ASN:OD1	2:J:394:LEU:HA	1.72	0.89
2:I:345:ILE:HD13	2:I:345:ILE:H	1.36	0.89
1:B:501:GLN:HE21	1:B:653:HIS:HD2	0.90	0.89
1:D:437:GLY:HA2	1:D:690:GLU:OE2	1.73	0.89
1:E:403:ASP:OD1	1:E:407:LYS:NZ	2.05	0.89
1:C:505:GLN:HE22	1:C:1001:VAL:H	0.93	0.89
2:L:153:ILE:HD13	2:L:220:VAL:HG13	1.53	0.89
4:B:2474:FMN:O4'	4:B:2474:FMN:H1'2	1.69	0.89
2:L:110:ILE:HG13	2:L:117:ALA:HA	1.55	0.89
1:A:1263:HIS:HE2	1:E:900:GLY:HA2	1.37	0.89
2:I:110:ILE:HG13	2:I:117:ALA:HA	1.55	0.89
1:E:710:LYS:HG2	1:E:939:GLY:HA3	1.55	0.89
1:A:52:GLN:NE2	1:A:71:LEU:H	1.70	0.89
2:I:322:ARG:HG3	2:I:323:ASP:H	1.37	0.89
2:J:186:LEU:HD23	2:J:195:LEU:CD2	1.99	0.89
1:B:950:THR:HG22	1:B:952:MET:N	1.88	0.89
1:C:672:GLN:HG3	1:C:693:MET:HE2	1.55	0.89
1:C:1438:ARG:HB2	2:J:376:GLY:H	1.33	0.89
1:C:710:LYS:HG2	1:C:939:GLY:HA3	1.55	0.89
2:G:110:ILE:HG13	2:G:117:ALA:HA	1.55	0.89
2:K:257:ASN:OD1	2:K:394:LEU:HA	1.72	0.89
1:C:511:ILE:HG22	1:C:512:ASP:N	1.86	0.89
2:J:77:LEU:HD23	2:J:127:ILE:HA	1.51	0.89
1:D:652:THR:HG21	1:D:703:GLY:CA	2.03	0.89
2:G:246:ARG:HD3	2:G:399:LEU:HB3	1.55	0.89
2:I:246:ARG:HD3	2:I:399:LEU:HB3	1.55	0.89
1:E:582:LEU:H	1:E:755:GLN:NE2	1.71	0.89
1:C:52:GLN:NE2	1:C:71:LEU:H	1.70	0.89
2:J:146:LEU:HD23	2:J:147:GLY:H	1.38	0.89
2:J:430:LYS:CD	2:J:460:ALA:HB2	2.01	0.89
2:H:175:VAL:HG11	2:H:214:TYR:CD2	2.08	0.89
1:C:960:THR:HG22	1:C:963:VAL:CG2	2.03	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:838:VAL:HG13	1:A:839:PRO:CD	2.03	0.89
1:E:353:MET:CE	1:E:366:GLY:O	2.22	0.89
2:J:366:ARG:HE	2:J:391:GLN:HG2	1.37	0.89
1:F:918:THR:HG22	1:F:921:TYR:H	1.38	0.89
1:E:777:GLY:HA2	2:L:52:VAL:HG12	1.53	0.88
1:A:1376:LEU:N	1:A:1376:LEU:CD2	2.33	0.88
1:F:783:LYS:HA	2:I:57:VAL:HG22	0.90	0.88
2:K:367:ILE:HD12	2:K:369:LEU:CD1	2.04	0.88
1:D:731:SER:HA	1:D:748:GLY:H	1.37	0.88
2:G:175:VAL:HG11	2:G:214:TYR:CD2	2.08	0.88
2:H:148:LEU:HD12	2:H:149:SER:N	1.88	0.88
1:C:353:MET:CE	1:C:366:GLY:O	2.21	0.88
2:K:246:ARG:HD3	2:K:399:LEU:HB3	1.55	0.88
1:D:218:THR:HG23	1:D:220:PRO:HD2	1.56	0.88
2:J:110:ILE:HG13	2:J:117:ALA:HA	1.55	0.88
1:A:900:GLY:HA2	1:C:1263:HIS:HE2	1.37	0.88
1:D:783:LYS:HA	2:H:57:VAL:HG22	0.90	0.88
1:A:825:LEU:HD13	1:A:1186:ARG:HH11	1.38	0.88
2:H:367:ILE:HD12	2:H:369:LEU:CD1	2.04	0.88
2:L:175:VAL:HG11	2:L:214:TYR:CD2	2.08	0.88
2:K:148:LEU:HD12	2:K:149:SER:N	1.88	0.88
1:C:113:ASN:ND2	1:C:113:ASN:C	2.26	0.88
1:B:652:THR:HG21	1:B:703:GLY:CA	2.03	0.88
2:H:110:ILE:HG13	2:H:117:ALA:HA	1.55	0.88
2:K:153:ILE:HD13	2:K:220:VAL:HG13	1.53	0.88
1:B:838:VAL:HG13	1:B:839:PRO:HD2	1.54	0.88
2:K:110:ILE:HG13	2:K:117:ALA:HA	1.55	0.88
1:B:876:ASN:CB	1:F:1227:GLU:OE1	2.22	0.88
2:J:367:ILE:HD12	2:J:369:LEU:HD12	1.53	0.88
1:B:783:LYS:HA	2:G:57:VAL:HG22	0.90	0.88
2:K:322:ARG:HG3	2:K:323:ASP:H	1.37	0.88
2:K:77:LEU:HD23	2:K:127:ILE:HA	1.51	0.88
2:J:432:THR:HG22	2:J:434:MET:H	1.37	0.88
2:G:148:LEU:HD12	2:G:149:SER:N	1.88	0.88
1:D:734:LEU:CD1	1:D:738:HIS:CD2	2.57	0.88
1:B:526:LEU:HD12	1:B:526:LEU:N	1.88	0.88
1:A:1311:THR:HG23	1:A:1312:SER:N	1.89	0.88
2:H:246:ARG:HD3	2:H:399:LEU:HB3	1.55	0.88
1:E:782:ARG:HD3	2:L:53:PRO:HD3	1.56	0.88
1:B:731:SER:HA	1:B:748:GLY:H	1.37	0.88
1:D:782:ARG:HB3	2:H:56:GLN:HE21	0.76	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:148:LEU:CG	2:G:234:VAL:HG23	2.03	0.88
1:E:582:LEU:H	1:E:755:GLN:HE22	1.18	0.88
1:A:403:ASP:OD1	1:A:407:LYS:NZ	2.05	0.88
1:F:526:LEU:HD12	1:F:526:LEU:N	1.88	0.88
1:B:437:GLY:HA2	1:B:690:GLU:OE2	1.73	0.88
1:B:430:VAL:CG1	1:B:554:GLU:HB3	2.02	0.88
1:C:430:VAL:HG13	1:C:554:GLU:HB2	1.56	0.88
2:K:175:VAL:HG11	2:K:214:TYR:CD2	2.08	0.88
2:K:430:LYS:HE2	2:K:440:ALA:CB	2.04	0.88
2:H:367:ILE:HD12	2:H:369:LEU:HD12	1.53	0.88
2:I:257:ASN:OD1	2:I:394:LEU:HA	1.72	0.88
2:G:367:ILE:HD12	2:G:369:LEU:CD1	2.04	0.88
2:H:146:LEU:HD23	2:H:147:GLY:H	1.38	0.88
1:D:139:VAL:HG11	1:D:143:GLN:CB	2.02	0.88
1:A:960:THR:HG22	1:A:963:VAL:CG2	2.03	0.88
2:I:366:ARG:HE	2:I:391:GLN:HG2	1.37	0.88
1:A:372:VAL:HG12	1:A:372:VAL:O	1.74	0.88
1:F:253:HIS:ND1	1:F:254:PRO:CD	2.37	0.88
2:L:257:ASN:OD1	2:L:394:LEU:HA	1.72	0.88
1:C:782:ARG:HD3	2:K:53:PRO:HD3	1.56	0.88
2:L:367:ILE:HD12	2:L:369:LEU:HD12	1.53	0.88
2:G:430:LYS:HE2	2:G:440:ALA:CB	2.04	0.88
1:C:59:VAL:CG2	1:C:105:TYR:HD2	1.82	0.88
1:A:511:ILE:HG22	1:A:512:ASP:N	1.86	0.88
1:E:838:VAL:HG13	1:E:839:PRO:CD	2.03	0.88
2:I:430:LYS:HE2	2:I:440:ALA:CB	2.04	0.88
2:L:430:LYS:HE2	2:L:440:ALA:CB	2.03	0.88
1:F:139:VAL:HG11	1:F:143:GLN:CB	2.02	0.88
2:L:148:LEU:CG	2:L:234:VAL:HG23	2.03	0.88
1:C:838:VAL:HG13	1:C:839:PRO:CD	2.03	0.88
2:I:148:LEU:HD12	2:I:149:SER:N	1.88	0.88
1:E:950:THR:CG2	1:E:951:GLU:N	2.35	0.88
1:A:582:LEU:H	1:A:755:GLN:NE2	1.71	0.88
1:A:182:MET:HE3	1:A:217:PRO:HB2	0.93	0.88
1:F:1115:VAL:O	1:F:1115:VAL:CG1	2.22	0.88
1:F:783:LYS:CA	2:I:57:VAL:HG23	1.96	0.88
1:D:253:HIS:ND1	1:D:254:PRO:CD	2.37	0.88
1:A:430:VAL:HG13	1:A:554:GLU:HB2	1.56	0.88
2:G:153:ILE:HD13	2:G:220:VAL:HG13	1.53	0.88
2:I:153:ILE:HD13	2:I:220:VAL:HG13	1.53	0.88
2:H:430:LYS:HE2	2:H:440:ALA:CB	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:366:ARG:HE	2:L:391:GLN:HG2	1.37	0.88
1:B:734:LEU:CD1	1:B:738:HIS:CD2	2.57	0.88
1:A:584:ASP:N	1:A:584:ASP:OD1	2.04	0.88
1:A:1401:LEU:HD12	1:A:1401:LEU:O	1.74	0.88
1:E:825:LEU:HD13	1:E:1186:ARG:HH11	1.38	0.88
2:K:292:VAL:CG2	2:K:394:LEU:HD13	2.04	0.88
2:J:166:LEU:HD23	2:J:461:ALA:HB1	1.56	0.88
2:L:166:LEU:HD23	2:L:461:ALA:HB1	1.56	0.88
1:D:139:VAL:CG1	1:D:140:SER:H	1.87	0.88
1:D:426:LEU:CD2	1:D:543:LEU:HB3	2.04	0.88
1:B:218:THR:HG23	1:B:220:PRO:HD2	1.56	0.88
1:B:777:GLY:CA	2:G:52:VAL:HG12	1.99	0.87
1:B:253:HIS:ND1	1:B:254:PRO:CD	2.37	0.87
2:J:430:LYS:HE2	2:J:440:ALA:CB	2.04	0.87
1:D:501:GLN:NE2	1:D:653:HIS:HD2	1.72	0.87
2:J:148:LEU:CG	2:J:234:VAL:HG23	2.03	0.87
1:C:582:LEU:H	1:C:755:GLN:NE2	1.71	0.87
1:F:838:VAL:HG13	1:F:839:PRO:HD2	1.54	0.87
2:L:322:ARG:HG3	2:L:323:ASP:H	1.37	0.87
1:A:710:LYS:HG2	1:A:939:GLY:HA3	1.55	0.87
1:B:515:ARG:HH22	1:B:966:ILE:HB	1.37	0.87
1:B:501:GLN:NE2	1:B:653:HIS:HD2	1.73	0.87
1:F:950:THR:HG22	1:F:952:MET:N	1.88	0.87
1:F:652:THR:HG21	1:F:703:GLY:CA	2.03	0.87
1:B:426:LEU:CD2	1:B:543:LEU:HB3	2.04	0.87
1:A:777:GLY:CA	2:J:52:VAL:HG12	2.02	0.87
2:J:322:ARG:HG3	2:J:323:ASP:H	1.37	0.87
2:G:146:LEU:HD23	2:G:147:GLY:H	1.38	0.87
2:G:166:LEU:HD23	2:G:461:ALA:HB1	1.56	0.87
2:K:186:LEU:CD2	2:K:195:LEU:HD21	2.04	0.87
2:H:166:LEU:HD23	2:H:461:ALA:HB1	1.56	0.87
2:L:148:LEU:HD12	2:L:149:SER:N	1.88	0.87
1:B:1227:GLU:OE1	1:D:876:ASN:CB	2.22	0.87
1:A:900:GLY:N	1:C:1263:HIS:HE1	1.65	0.87
2:J:367:ILE:HD12	2:J:369:LEU:CD1	2.04	0.87
2:H:148:LEU:CG	2:H:234:VAL:HG23	2.03	0.87
1:F:734:LEU:CD1	1:F:738:HIS:CD2	2.56	0.87
1:F:734:LEU:HD11	1:F:738:HIS:CD2	2.10	0.87
1:C:877:ARG:CG	1:E:1229:MET:HA	2.05	0.87
1:E:1438:ARG:HB2	2:K:376:GLY:H	1.33	0.87
2:K:281:GLU:HG3	2:K:284:SER:H	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:415:LEU:HG	2:K:432:THR:CG2	2.05	0.87
1:D:918:THR:HG22	1:D:921:TYR:H	1.38	0.87
1:C:6:ILE:HG12	1:C:364:ILE:HG23	1.57	0.87
1:A:843:VAL:HG12	1:A:844:GLU:N	1.89	0.87
1:C:52:GLN:HE22	1:C:71:LEU:N	1.73	0.87
2:H:322:ARG:HG3	2:H:323:ASP:H	1.37	0.87
2:H:92:GLU:HG2	2:H:128:ASN:CG	1.95	0.87
1:F:139:VAL:CG1	1:F:140:SER:H	1.87	0.87
1:F:30:HIS:HD2	1:F:31:ARG:HG3	1.38	0.87
1:D:505:GLN:HE22	1:D:1000:LEU:HB3	1.36	0.87
1:C:146:LEU:HD12	1:C:146:LEU:O	1.75	0.87
1:D:950:THR:HG22	1:D:952:MET:N	1.88	0.87
1:B:570:ASP:OD1	1:B:572:THR:HB	1.73	0.87
1:E:6:ILE:HG12	1:E:364:ILE:HG23	1.57	0.87
1:A:1438:ARG:CB	2:L:376:GLY:CA	2.31	0.87
1:C:513:SER:CB	1:C:520:MET:HE2	2.04	0.87
1:D:430:VAL:CG1	1:D:554:GLU:HB3	2.02	0.87
1:A:734:LEU:CD1	1:A:738:HIS:CD2	2.58	0.87
2:J:415:LEU:HG	2:J:432:THR:CG2	2.05	0.87
2:J:148:LEU:HD12	2:J:149:SER:N	1.88	0.87
1:A:146:LEU:O	1:A:146:LEU:HD12	1.75	0.87
1:B:659:ILE:HA	1:B:663:ALA:HB3	1.54	0.87
1:D:1227:GLU:OE1	1:F:876:ASN:CB	2.22	0.87
1:E:182:MET:HE3	1:E:217:PRO:HB2	1.00	0.87
1:A:513:SER:CB	1:A:520:MET:HE2	2.05	0.87
2:I:186:LEU:HD11	2:I:200:VAL:HB	1.57	0.87
2:I:432:THR:HG22	2:I:434:MET:H	1.37	0.87
2:L:432:THR:HG22	2:L:434:MET:H	1.37	0.87
2:K:148:LEU:CG	2:K:234:VAL:HG23	2.03	0.87
1:D:501:GLN:HE21	1:D:653:HIS:HD2	0.90	0.87
2:I:148:LEU:CG	2:I:234:VAL:HG23	2.03	0.87
1:B:505:GLN:HE22	1:B:1000:LEU:HB3	1.36	0.87
2:L:367:ILE:HD12	2:L:369:LEU:CD1	2.04	0.87
1:E:1401:LEU:O	1:E:1401:LEU:HD12	1.74	0.87
1:F:731:SER:HA	1:F:748:GLY:H	1.37	0.87
2:G:186:LEU:CD2	2:G:195:LEU:HD21	2.04	0.87
2:G:80:ALA:HB3	2:G:127:ILE:CD1	2.05	0.87
2:K:153:ILE:CD1	2:K:220:VAL:HG13	2.04	0.87
2:I:166:LEU:HD23	2:I:461:ALA:HB1	1.56	0.87
2:H:153:ILE:CD1	2:H:220:VAL:HG13	2.04	0.87
1:B:139:VAL:CG1	1:B:140:SER:H	1.87	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1349:ARG:CG	1:F:1349:ARG:NH1	2.34	0.87
1:A:715:VAL:O	1:A:715:VAL:CG1	2.23	0.87
1:B:734:LEU:HD11	1:B:738:HIS:CD2	2.10	0.87
1:D:218:THR:HG21	1:D:221:LEU:HG	1.56	0.87
2:G:197:LYS:HE2	2:G:275:ASP:H	1.40	0.87
1:A:392:ALA:O	1:A:400:LEU:HD12	1.74	0.87
1:D:377:THR:HG22	1:D:378:GLN:HG3	1.56	0.87
1:B:782:ARG:HB3	2:G:56:GLN:HE21	0.76	0.86
2:K:388:PHE:CD2	2:K:390:VAL:HG13	2.10	0.86
1:D:1047:MET:CG	1:D:1186:ARG:NH2	2.38	0.86
1:E:430:VAL:HG13	1:E:554:GLU:HB2	1.56	0.86
2:H:281:GLU:HG3	2:H:284:SER:H	1.39	0.86
2:K:432:THR:HG22	2:K:434:MET:H	1.37	0.86
2:L:80:ALA:HB3	2:L:127:ILE:CD1	2.05	0.86
1:A:353:MET:CE	1:A:366:GLY:O	2.21	0.86
1:F:570:ASP:OD1	1:F:572:THR:HB	1.73	0.86
1:F:218:THR:HG23	1:F:220:PRO:HD2	1.56	0.86
1:E:828:LEU:HD22	1:E:1172:SER:HB2	1.57	0.86
1:F:377:THR:HG22	1:F:378:GLN:HG3	1.56	0.86
1:B:825:LEU:CD1	1:B:1186:ARG:NH1	2.17	0.86
1:C:1401:LEU:HD12	1:C:1401:LEU:O	1.74	0.86
1:E:227:MET:HE3	1:E:282:GLU:HA	1.56	0.86
2:H:292:VAL:CG2	2:H:394:LEU:HD13	2.04	0.86
2:L:146:LEU:HD23	2:L:147:GLY:H	1.38	0.86
1:F:501:GLN:NE2	1:F:653:HIS:HD2	1.73	0.86
1:F:426:LEU:CD2	1:F:543:LEU:HB3	2.04	0.86
1:A:1229:MET:HA	1:E:877:ARG:CG	2.05	0.86
1:A:290:THR:HG23	1:A:292:PRO:HD2	1.56	0.86
2:I:92:GLU:HG2	2:I:128:ASN:CG	1.95	0.86
2:J:186:LEU:HD11	2:J:200:VAL:HB	1.57	0.86
2:L:153:ILE:CD1	2:L:220:VAL:HG13	2.04	0.86
1:E:1311:THR:HG23	1:E:1312:SER:N	1.89	0.86
1:C:843:VAL:HG12	1:C:844:GLU:N	1.89	0.86
1:D:1263:HIS:NE2	1:F:900:GLY:CA	2.17	0.86
1:F:1047:MET:CG	1:F:1186:ARG:NH2	2.38	0.86
1:D:746:ILE:HG23	1:D:1182:ASP:CB	2.05	0.86
2:G:153:ILE:CD1	2:G:220:VAL:HG13	2.04	0.86
2:K:166:LEU:HD23	2:K:461:ALA:HB1	1.56	0.86
2:J:153:ILE:CD1	2:J:220:VAL:HG13	2.04	0.86
2:L:292:VAL:CG2	2:L:394:LEU:HD13	2.04	0.86
2:H:415:LEU:HG	2:H:432:THR:CG2	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:113:ASN:HD22	1:B:113:ASN:C	1.78	0.86
1:E:513:SER:CB	1:E:520:MET:HE2	2.04	0.86
2:I:146:LEU:HD23	2:I:147:GLY:H	1.38	0.86
2:G:388:PHE:CD2	2:G:390:VAL:HG13	2.10	0.86
2:L:186:LEU:CD2	2:L:195:LEU:HD21	2.04	0.86
2:H:432:THR:HG22	2:H:434:MET:H	1.37	0.86
1:D:113:ASN:HD22	1:D:113:ASN:C	1.78	0.86
1:F:505:GLN:HE22	1:F:1000:LEU:HB3	1.36	0.86
2:L:388:PHE:CD2	2:L:390:VAL:HG13	2.10	0.86
1:C:734:LEU:CD1	1:C:738:HIS:CD2	2.58	0.86
2:K:146:LEU:HD23	2:K:147:GLY:H	1.38	0.86
2:I:415:LEU:HG	2:I:432:THR:CG2	2.05	0.86
2:L:415:LEU:HG	2:L:432:THR:CG2	2.05	0.86
1:E:146:LEU:O	1:E:146:LEU:HD12	1.75	0.86
2:L:197:LYS:HE2	2:L:275:ASP:H	1.40	0.86
1:C:392:ALA:O	1:C:400:LEU:HD12	1.74	0.86
2:H:388:PHE:CD2	2:H:390:VAL:HG13	2.10	0.86
2:I:153:ILE:CD1	2:I:220:VAL:HG13	2.04	0.86
2:I:292:VAL:CG2	2:I:394:LEU:HD13	2.04	0.86
2:H:80:ALA:HB3	2:H:127:ILE:CG1	2.05	0.86
2:I:371:VAL:HG23	2:I:383:ILE:CG2	2.06	0.86
2:L:371:VAL:HG23	2:L:383:ILE:CG2	2.06	0.86
1:D:734:LEU:HD11	1:D:738:HIS:CD2	2.10	0.86
1:E:392:ALA:O	1:E:400:LEU:HD12	1.74	0.86
1:A:1438:ARG:HB2	2:L:376:GLY:CA	1.97	0.86
1:B:780:ARG:CG	2:G:51:GLY:O	2.24	0.86
2:G:110:ILE:HD11	2:G:118:VAL:N	1.91	0.86
1:C:290:THR:HG23	1:C:292:PRO:HD2	1.56	0.86
2:G:432:THR:HG22	2:G:434:MET:H	1.37	0.86
2:J:292:VAL:CG2	2:J:394:LEU:HD13	2.04	0.86
2:I:80:ALA:HB3	2:I:127:ILE:CG1	2.05	0.86
2:G:292:VAL:CG2	2:G:394:LEU:HD13	2.04	0.86
2:L:92:GLU:HG2	2:L:128:ASN:CG	1.95	0.86
1:B:901:ASP:OD1	1:F:1228:LYS:HB3	1.76	0.86
1:F:782:ARG:HB3	2:I:56:GLN:HE21	0.76	0.86
1:F:253:HIS:CE1	1:F:254:PRO:HD2	2.11	0.86
2:G:415:LEU:HG	2:G:432:THR:CG2	2.05	0.86
2:K:80:ALA:HB3	2:K:127:ILE:CG1	2.05	0.86
2:I:31:ILE:HD12	2:I:32:TYR:N	1.91	0.86
2:I:80:ALA:HB3	2:I:127:ILE:CD1	2.05	0.86
1:C:1115:VAL:CG1	1:C:1115:VAL:O	2.24	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:80:ALA:HB3	2:L:127:ILE:CG1	2.05	0.86
2:L:186:LEU:HD11	2:L:200:VAL:HB	1.57	0.86
1:B:218:THR:HG21	1:B:221:LEU:HG	1.56	0.86
1:C:1338:ALA:O	1:C:1340:GLY:N	2.08	0.86
1:C:372:VAL:HG12	1:C:372:VAL:O	1.74	0.86
1:C:482:ASP:OD1	1:C:788:HIS:CD2	2.29	0.86
2:K:110:ILE:HD11	2:K:118:VAL:N	1.91	0.86
1:D:780:ARG:CG	2:H:51:GLY:O	2.24	0.86
1:E:1438:ARG:HB2	2:K:376:GLY:CA	1.97	0.86
2:H:303:ASP:O	2:H:307:THR:HG22	1.76	0.86
1:E:59:VAL:CG2	1:E:105:TYR:HD2	1.82	0.86
2:J:371:VAL:HG23	2:J:383:ILE:CG2	2.06	0.86
2:G:371:VAL:HG23	2:G:383:ILE:CG2	2.06	0.86
1:D:515:ARG:HH22	1:D:966:ILE:HB	1.37	0.86
1:F:417:ASP:O	1:F:418:LYS:C	2.13	0.86
1:A:409:HIS:O	1:A:412:THR:HB	1.76	0.86
1:A:782:ARG:HD3	2:J:53:PRO:CD	2.05	0.85
1:B:1047:MET:CG	1:B:1186:ARG:NH2	2.38	0.85
1:D:1438:ARG:HD2	2:I:377:ARG:N	1.49	0.85
2:K:430:LYS:HE2	2:K:440:ALA:HB2	1.58	0.85
2:L:31:ILE:HD12	2:L:32:TYR:N	1.91	0.85
2:L:250:ALA:HB1	2:L:251:PRO:HD2	1.57	0.85
1:B:377:THR:HG22	1:B:378:GLN:HG3	1.56	0.85
1:A:1338:ALA:O	1:A:1340:GLY:N	2.08	0.85
1:D:1128:PHE:CZ	1:D:1130:GLY:HA3	2.11	0.85
1:A:482:ASP:OD1	1:A:788:HIS:HD2	1.59	0.85
1:D:1228:LYS:HB3	1:F:901:ASP:OD1	1.76	0.85
1:B:876:ASN:CG	1:F:1227:GLU:OE2	2.15	0.85
1:E:513:SER:HB3	1:E:520:MET:CE	2.06	0.85
1:C:825:LEU:HD13	1:C:1186:ARG:HH11	1.38	0.85
1:A:1115:VAL:O	1:A:1115:VAL:CG1	2.24	0.85
2:I:250:ALA:HB1	2:I:251:PRO:HD2	1.57	0.85
2:K:371:VAL:HG23	2:K:383:ILE:CG2	2.06	0.85
1:C:724:ASN:H	1:C:724:ASN:ND2	1.73	0.85
1:A:537:GLU:HG3	1:A:538:THR:N	1.92	0.85
1:C:1311:THR:HG23	1:C:1312:SER:N	1.89	0.85
1:B:899:ASN:O	1:F:1263:HIS:CE1	2.30	0.85
2:I:367:ILE:HD12	2:I:369:LEU:CD1	2.04	0.85
2:K:80:ALA:HB3	2:K:127:ILE:CD1	2.05	0.85
2:J:166:LEU:HA	2:J:169:LYS:HE2	1.58	0.85
2:H:371:VAL:HG23	2:H:383:ILE:CG2	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:281:GLU:HG3	2:G:284:SER:H	1.39	0.85
2:H:80:ALA:HB3	2:H:127:ILE:CD1	2.05	0.85
1:E:409:HIS:O	1:E:412:THR:HB	1.76	0.85
1:C:782:ARG:HD3	2:K:53:PRO:CD	2.05	0.85
1:D:1263:HIS:HE1	1:F:899:ASN:C	1.79	0.85
1:E:253:HIS:CG	1:E:254:PRO:CD	2.52	0.85
2:G:430:LYS:HE2	2:G:440:ALA:HB2	1.58	0.85
2:K:250:ALA:HB1	2:K:251:PRO:HD2	1.57	0.85
1:E:52:GLN:HE22	1:E:71:LEU:N	1.73	0.85
2:L:429:THR:HG21	2:L:431:MET:HE1	1.58	0.85
1:A:604:VAL:HG23	1:A:640:THR:HG21	1.58	0.85
1:C:537:GLU:HG3	1:C:538:THR:N	1.92	0.85
1:D:1229:MET:CA	1:F:877:ARG:HG3	2.03	0.85
2:K:303:ASP:O	2:K:307:THR:HG22	1.76	0.85
2:I:166:LEU:HA	2:I:169:LYS:HE2	1.58	0.85
2:L:166:LEU:HA	2:L:169:LYS:HE2	1.58	0.85
1:C:724:ASN:H	1:C:724:ASN:HD22	1.25	0.85
1:E:604:VAL:HG23	1:E:640:THR:HG21	1.58	0.85
1:A:724:ASN:H	1:A:724:ASN:ND2	1.73	0.85
1:E:843:VAL:HG12	1:E:844:GLU:N	1.89	0.85
1:E:482:ASP:OD1	1:E:788:HIS:HD2	1.59	0.85
2:L:110:ILE:HD11	2:L:118:VAL:N	1.91	0.85
1:C:479:MET:HG3	1:C:1104:MET:CE	2.05	0.85
1:D:1227:GLU:CD	1:F:876:ASN:CB	2.45	0.85
1:C:900:GLY:HA2	1:E:1263:HIS:NE2	1.91	0.85
2:J:281:GLU:HG3	2:J:284:SER:H	1.39	0.85
2:J:303:ASP:O	2:J:307:THR:HG22	1.76	0.85
1:A:731:SER:HA	1:A:748:GLY:H	1.42	0.85
1:E:734:LEU:CD1	1:E:738:HIS:CD2	2.58	0.85
2:J:80:ALA:HB3	2:J:127:ILE:CG1	2.05	0.85
1:B:1263:HIS:CE1	1:D:899:ASN:O	2.30	0.85
1:A:479:MET:HG3	1:A:1104:MET:CE	2.05	0.85
2:J:110:ILE:HD11	2:J:118:VAL:N	1.91	0.85
1:E:479:MET:HG3	1:E:1104:MET:CE	2.05	0.85
1:C:1438:ARG:HD2	2:J:377:ARG:N	1.90	0.85
1:C:704:LEU:O	1:C:706:LYS:N	2.10	0.85
2:J:250:ALA:HB1	2:J:251:PRO:HD2	1.57	0.85
1:E:734:LEU:HD11	1:E:738:HIS:CD2	2.12	0.85
2:I:388:PHE:CD2	2:I:390:VAL:HG13	2.10	0.85
2:J:31:ILE:HD12	2:J:32:TYR:N	1.91	0.85
2:H:132:TRP:CD1	2:H:202:ARG:HD2	2.12	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:568:GLU:C	1:F:569:ILE:HD13	1.96	0.85
1:C:604:VAL:HG23	1:C:640:THR:HG21	1.58	0.85
1:A:482:ASP:OD1	1:A:788:HIS:CD2	2.29	0.85
1:B:746:ILE:HG23	1:B:1182:ASP:CB	2.05	0.85
2:J:388:PHE:CD2	2:J:390:VAL:HG13	2.10	0.85
2:H:110:ILE:HD11	2:H:118:VAL:N	1.91	0.85
1:A:513:SER:HB3	1:A:520:MET:CE	2.06	0.85
1:E:1438:ARG:HD2	2:K:377:ARG:N	1.90	0.85
1:F:746:ILE:HG23	1:F:1182:ASP:CB	2.05	0.85
2:G:92:GLU:HG2	2:G:128:ASN:CG	1.95	0.85
1:A:52:GLN:HE22	1:A:71:LEU:N	1.73	0.85
1:C:734:LEU:HD11	1:C:738:HIS:CD2	2.12	0.85
2:I:443:ILE:HD12	2:I:444:VAL:N	1.92	0.85
2:J:92:GLU:HG2	2:J:128:ASN:CG	1.95	0.85
2:H:31:ILE:HD12	2:H:32:TYR:N	1.91	0.85
1:D:568:GLU:C	1:D:569:ILE:HD13	1.96	0.85
1:E:828:LEU:CD2	1:E:1172:SER:HB2	2.07	0.85
2:H:197:LYS:HE2	2:H:275:ASP:H	1.40	0.85
2:K:197:LYS:HE2	2:K:275:ASP:H	1.40	0.85
1:B:1227:GLU:CD	1:D:876:ASN:CB	2.45	0.85
1:A:782:ARG:O	2:J:57:VAL:CG2	2.24	0.85
1:D:1227:GLU:OE2	1:F:876:ASN:CG	2.15	0.85
2:I:110:ILE:HD11	2:I:118:VAL:N	1.91	0.85
1:F:780:ARG:CG	2:I:51:GLY:O	2.24	0.85
1:F:1047:MET:HG2	1:F:1186:ARG:NH2	1.91	0.85
2:K:92:GLU:HG2	2:K:128:ASN:CG	1.95	0.85
2:G:324:ARG:HA	2:G:346:TRP:CD2	2.12	0.85
2:H:430:LYS:HE2	2:H:440:ALA:HB2	1.57	0.85
1:F:652:THR:HG21	1:F:703:GLY:HA2	1.59	0.85
2:J:324:ARG:HA	2:J:346:TRP:CD2	2.12	0.85
1:B:1115:VAL:CG1	1:B:1115:VAL:O	2.22	0.85
2:I:271:VAL:HG21	2:I:285:LEU:HG	1.59	0.85
2:H:186:LEU:HD11	2:H:200:VAL:HB	1.57	0.85
1:A:950:THR:HG22	1:A:952:MET:H	1.42	0.85
1:B:1128:PHE:CZ	1:B:1130:GLY:HA3	2.11	0.85
1:C:482:ASP:OD1	1:C:788:HIS:HD2	1.59	0.84
1:C:1425:LYS:HD3	1:C:1447:TRP:CE2	2.12	0.84
1:E:704:LEU:O	1:E:706:LYS:N	2.10	0.84
1:A:704:LEU:O	1:A:706:LYS:N	2.10	0.84
1:D:1047:MET:HG2	1:D:1186:ARG:NH2	1.91	0.84
2:G:80:ALA:HB3	2:G:127:ILE:CG1	2.05	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:746:ILE:HG23	1:E:1182:ASP:HB3	1.58	0.84
2:J:443:ILE:HD12	2:J:444:VAL:N	1.92	0.84
2:J:80:ALA:HB3	2:J:127:ILE:CD1	2.05	0.84
1:B:30:HIS:HD2	1:B:31:ARG:HG3	1.38	0.84
1:D:843:VAL:HG12	1:D:844:GLU:N	1.92	0.84
1:A:782:ARG:HD3	2:J:53:PRO:HD3	1.56	0.84
1:C:782:ARG:O	2:K:57:VAL:CG2	2.24	0.84
1:F:782:ARG:CD	2:I:53:PRO:HD2	1.99	0.84
2:G:166:LEU:HA	2:G:169:LYS:HE2	1.58	0.84
2:G:186:LEU:HD11	2:G:200:VAL:HB	1.57	0.84
1:E:515:ARG:HH22	1:E:966:ILE:HB	1.41	0.84
1:E:838:VAL:HG12	1:E:839:PRO:N	1.92	0.84
2:I:430:LYS:HE2	2:I:440:ALA:HB2	1.58	0.84
1:A:113:ASN:C	1:A:113:ASN:ND2	2.26	0.84
1:A:724:ASN:HD22	1:A:724:ASN:H	1.25	0.84
1:C:828:LEU:CD2	1:C:1172:SER:HB2	2.07	0.84
1:E:1338:ALA:O	1:E:1340:GLY:N	2.08	0.84
1:A:877:ARG:CG	1:C:1229:MET:HA	2.05	0.84
1:D:1263:HIS:CE1	1:F:899:ASN:O	2.30	0.84
1:A:1425:LYS:HD3	1:A:1447:TRP:CE2	2.12	0.84
1:A:1438:ARG:HD2	2:L:377:ARG:N	1.90	0.84
2:I:54:PHE:HB3	2:I:107:ASN:HB3	1.60	0.84
2:G:423:LEU:HD21	2:G:443:ILE:CD1	2.07	0.84
2:K:132:TRP:CD1	2:K:202:ARG:HD2	2.12	0.84
2:K:31:ILE:HD12	2:K:32:TYR:N	1.91	0.84
2:L:443:ILE:HD12	2:L:444:VAL:N	1.92	0.84
2:H:220:VAL:HG23	8:H:484:FAD:H62A	1.40	0.84
1:A:342:VAL:HG11	1:A:390:MET:HE2	1.59	0.84
1:F:218:THR:HG21	1:F:221:LEU:HG	1.56	0.84
1:B:52:GLN:HE22	1:B:71:LEU:H	1.24	0.84
2:J:197:LYS:HE2	2:J:275:ASP:H	1.40	0.84
1:A:6:ILE:HG12	1:A:364:ILE:HG23	1.57	0.84
1:B:876:ASN:CB	1:F:1227:GLU:CD	2.45	0.84
2:L:324:ARG:HA	2:L:346:TRP:CD2	2.12	0.84
1:C:825:LEU:HD11	1:C:1186:ARG:HH12	1.40	0.84
2:G:303:ASP:O	2:G:307:THR:HG22	1.76	0.84
1:A:838:VAL:CG1	1:A:839:PRO:CD	2.56	0.84
1:E:588:ARG:O	1:E:592:GLU:HG3	1.78	0.84
1:F:1128:PHE:CZ	1:F:1130:GLY:HA3	2.11	0.84
1:B:1263:HIS:NE2	1:D:900:GLY:CA	2.17	0.84
2:K:54:PHE:HB3	2:K:107:ASN:HB3	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:MET:HE3	1:A:217:PRO:C	1.97	0.84
1:B:182:MET:HE3	1:B:217:PRO:C	1.97	0.84
1:A:825:LEU:HD11	1:A:1186:ARG:HH12	1.41	0.84
1:E:825:LEU:HD11	1:E:1186:ARG:HH12	1.41	0.84
1:C:515:ARG:HH22	1:C:966:ILE:HB	1.42	0.84
1:C:731:SER:HA	1:C:748:GLY:H	1.42	0.84
2:I:324:ARG:HA	2:I:346:TRP:CD2	2.12	0.84
2:J:132:TRP:CD1	2:J:202:ARG:HD2	2.12	0.84
1:C:828:LEU:HD22	1:C:1172:SER:HB2	1.57	0.84
1:E:482:ASP:OD1	1:E:788:HIS:CD2	2.29	0.84
1:A:876:ASN:HB2	1:C:1227:GLU:OE1	1.78	0.84
2:H:54:PHE:HB3	2:H:107:ASN:HB3	1.60	0.84
1:B:253:HIS:CE1	1:B:254:PRO:HD2	2.11	0.84
1:D:253:HIS:CE1	1:D:254:PRO:HD2	2.11	0.84
1:E:290:THR:HG23	1:E:292:PRO:HD2	1.56	0.84
2:G:31:ILE:HD12	2:G:32:TYR:N	1.91	0.84
1:C:746:ILE:HG23	1:C:1182:ASP:HB3	1.58	0.84
2:I:449:LEU:HD23	2:I:452:TRP:CG	2.13	0.84
2:J:423:LEU:HD21	2:J:443:ILE:CD1	2.07	0.84
2:J:449:LEU:HD23	2:J:452:TRP:CG	2.13	0.84
2:I:303:ASP:O	2:I:307:THR:HG22	1.76	0.84
2:L:132:TRP:CD1	2:L:202:ARG:HD2	2.12	0.84
2:L:449:LEU:HD23	2:L:452:TRP:CG	2.13	0.84
1:C:826:ARG:NH1	1:C:826:ARG:HG2	1.83	0.84
1:B:568:GLU:C	1:B:569:ILE:HD13	1.96	0.84
1:E:372:VAL:O	1:E:372:VAL:HG12	1.74	0.84
1:C:409:HIS:O	1:C:412:THR:HB	1.76	0.84
1:F:52:GLN:HE22	1:F:71:LEU:HB2	1.42	0.84
1:A:1227:GLU:OE1	1:E:876:ASN:HB2	1.78	0.84
1:B:1047:MET:HG2	1:B:1186:ARG:NH2	1.91	0.84
1:B:899:ASN:C	1:F:1263:HIS:HE1	1.79	0.84
1:C:513:SER:HB3	1:C:520:MET:CE	2.06	0.84
1:A:937:LYS:HE3	1:A:1033:SER:HB2	1.59	0.84
2:H:250:ALA:HB1	2:H:251:PRO:HD2	1.57	0.84
2:I:449:LEU:HD21	2:I:451:VAL:CG1	2.08	0.84
2:G:250:ALA:HB1	2:G:251:PRO:HD2	1.57	0.84
2:L:220:VAL:HG23	8:L:484:FAD:H62A	1.40	0.84
2:L:281:GLU:HG3	2:L:284:SER:H	1.39	0.84
2:H:166:LEU:HA	2:H:169:LYS:HE2	1.58	0.84
1:C:838:VAL:CG1	1:C:839:PRO:CD	2.55	0.84
1:A:235:ASN:HD22	1:A:235:ASN:C	1.80	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:242:VAL:HG12	2:L:403:PRO:CD	2.07	0.84
1:A:142:GLU:H	1:A:142:GLU:CD	1.80	0.84
1:C:932:VAL:O	1:C:933:ALA:HB2	1.78	0.84
1:A:828:LEU:CD2	1:A:1172:SER:HB2	2.07	0.84
2:J:54:PHE:HB3	2:J:107:ASN:HB3	1.60	0.84
1:E:782:ARG:O	2:L:57:VAL:CG2	2.24	0.84
1:E:659:ILE:HG21	1:E:716:ILE:HD11	1.59	0.84
1:C:659:ILE:HG21	1:C:716:ILE:HD11	1.59	0.84
1:E:731:SER:HA	1:E:748:GLY:H	1.42	0.84
2:I:132:TRP:CD1	2:I:202:ARG:HD2	2.12	0.84
2:J:449:LEU:HD21	2:J:451:VAL:CG1	2.08	0.84
2:H:449:LEU:HD21	2:H:451:VAL:CG1	2.08	0.84
1:D:30:HIS:HD2	1:D:31:ARG:HG3	1.38	0.84
2:I:197:LYS:HE2	2:I:275:ASP:H	1.40	0.84
1:A:588:ARG:O	1:A:592:GLU:HG3	1.78	0.84
1:C:584:ASP:N	1:C:584:ASP:OD1	2.04	0.84
1:A:900:GLY:HA2	1:C:1263:HIS:NE2	1.91	0.84
2:J:271:VAL:HG21	2:J:285:LEU:HG	1.59	0.84
2:K:186:LEU:HD11	2:K:200:VAL:HB	1.57	0.84
2:K:449:LEU:HD21	2:K:451:VAL:CG1	2.08	0.84
2:L:423:LEU:HD21	2:L:443:ILE:CD1	2.07	0.84
2:L:430:LYS:HE2	2:L:440:ALA:HB2	1.57	0.84
2:L:303:ASP:O	2:L:307:THR:HG22	1.76	0.84
2:H:443:ILE:HD12	2:H:444:VAL:N	1.92	0.84
2:H:449:LEU:HD23	2:H:452:TRP:CG	2.13	0.84
2:G:242:VAL:HG12	2:G:403:PRO:CD	2.07	0.84
1:A:828:LEU:HD22	1:A:1172:SER:HB2	1.57	0.84
1:E:724:ASN:ND2	1:E:724:ASN:H	1.73	0.84
1:F:777:GLY:O	1:F:788:HIS:HE1	1.60	0.84
1:D:1115:VAL:O	1:D:1115:VAL:CG1	2.22	0.84
1:C:937:LYS:HE3	1:C:1033:SER:HB2	1.59	0.84
1:A:227:MET:HE3	1:A:282:GLU:HA	1.57	0.84
2:K:324:ARG:HA	2:K:346:TRP:CD2	2.12	0.84
2:H:304:CYS:HA	2:H:307:THR:CG2	2.08	0.84
2:K:304:CYS:HA	2:K:307:THR:CG2	2.08	0.84
1:C:729:GLY:O	1:C:748:GLY:HA3	1.78	0.84
1:A:734:LEU:HD11	1:A:738:HIS:CD2	2.12	0.84
2:K:449:LEU:HD23	2:K:452:TRP:CG	2.13	0.84
1:E:838:VAL:CG1	1:E:839:PRO:CD	2.55	0.84
2:H:350:PRO:HB2	2:H:373:ASP:N	1.93	0.84
2:G:304:CYS:HA	2:G:307:THR:CG2	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:271:VAL:HG21	2:L:285:LEU:HG	1.59	0.84
2:L:304:CYS:HA	2:L:307:THR:CG2	2.08	0.84
2:H:242:VAL:HG12	2:H:403:PRO:CD	2.07	0.84
1:B:1228:LYS:HB3	1:D:901:ASP:OD1	1.76	0.83
1:D:182:MET:HE2	1:D:217:PRO:CB	1.83	0.83
2:K:350:PRO:HB2	2:K:373:ASP:N	1.93	0.83
2:G:449:LEU:HD23	2:G:452:TRP:CG	2.13	0.83
2:K:220:VAL:HG23	8:K:484:FAD:H62A	1.41	0.83
1:D:1349:ARG:NH1	1:D:1349:ARG:CG	2.34	0.83
1:F:113:ASN:C	1:F:113:ASN:HD22	1.78	0.83
1:A:310:PRO:HG3	1:A:404:ARG:HH22	1.43	0.83
1:B:652:THR:HG21	1:B:703:GLY:HA2	1.59	0.83
1:C:982:GLN:HE22	1:C:1240:ARG:HD2	1.43	0.83
1:B:1227:GLU:OE2	1:D:876:ASN:CG	2.15	0.83
2:L:54:PHE:HB3	2:L:107:ASN:HB3	1.60	0.83
1:C:1447:TRP:CE2	1:C:1451:VAL:CG2	2.61	0.83
1:B:1442:GLU:CG	2:H:374:ALA:O	2.26	0.83
2:G:350:PRO:HB2	2:G:373:ASP:N	1.93	0.83
1:F:501:GLN:HE21	1:F:653:HIS:HD2	0.90	0.83
1:C:838:VAL:HG12	1:C:839:PRO:N	1.92	0.83
1:C:102:TYR:CE2	1:C:144:PHE:HE1	1.89	0.83
1:C:142:GLU:CD	1:C:142:GLU:H	1.80	0.83
1:A:982:GLN:HE22	1:A:1240:ARG:HD2	1.43	0.83
1:C:876:ASN:HB2	1:E:1227:GLU:OE1	1.78	0.83
2:G:54:PHE:HB3	2:G:107:ASN:HB3	1.60	0.83
2:G:132:TRP:CD1	2:G:202:ARG:HD2	2.12	0.83
1:E:526:LEU:N	1:E:526:LEU:CD1	2.40	0.83
1:C:464:ILE:HD11	1:C:779:TYR:CZ	2.13	0.83
1:A:1447:TRP:CE2	1:A:1451:VAL:CG2	2.61	0.83
1:E:1425:LYS:HD3	1:E:1447:TRP:CE2	2.12	0.83
2:G:415:LEU:HG	2:G:432:THR:HG23	1.61	0.83
1:E:1115:VAL:CG1	1:E:1115:VAL:O	2.24	0.83
2:K:423:LEU:HD21	2:K:443:ILE:CD1	2.07	0.83
1:A:464:ILE:HD11	1:A:779:TYR:CZ	2.13	0.83
1:A:459:GLU:O	1:A:463:LEU:HB2	1.78	0.83
1:E:782:ARG:HD3	2:L:53:PRO:CD	2.05	0.83
2:L:350:PRO:HB2	2:L:373:ASP:N	1.93	0.83
1:D:777:GLY:O	1:D:788:HIS:HE1	1.60	0.83
2:G:443:ILE:HD12	2:G:444:VAL:N	1.92	0.83
1:A:59:VAL:HG22	1:A:105:TYR:HD2	1.44	0.83
2:I:281:GLU:HG3	2:I:284:SER:H	1.39	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:449:LEU:HD21	2:L:451:VAL:CG1	2.08	0.83
1:E:235:ASN:HD22	1:E:235:ASN:C	1.80	0.83
2:J:242:VAL:HG12	2:J:403:PRO:CD	2.07	0.83
1:E:342:VAL:HG11	1:E:390:MET:HE2	1.59	0.83
1:F:843:VAL:HG12	1:F:844:GLU:N	1.92	0.83
1:C:459:GLU:O	1:C:463:LEU:HB2	1.78	0.83
1:E:459:GLU:O	1:E:463:LEU:HB2	1.78	0.83
1:B:783:LYS:HE2	2:G:57:VAL:HG12	1.60	0.83
1:E:430:VAL:CG1	1:E:554:GLU:HB2	2.08	0.83
2:K:443:ILE:HD12	2:K:444:VAL:N	1.92	0.83
2:H:324:ARG:HA	2:H:346:TRP:CD2	2.12	0.83
1:D:52:GLN:HE22	1:D:71:LEU:HB2	1.42	0.83
1:B:777:GLY:O	1:B:788:HIS:HE1	1.60	0.83
1:F:1047:MET:CG	1:F:1186:ARG:CZ	2.56	0.83
2:G:71:LEU:HD22	2:G:71:LEU:O	1.79	0.83
2:K:166:LEU:HA	2:K:169:LYS:HE2	1.58	0.83
2:K:71:LEU:O	2:K:71:LEU:HD22	1.79	0.83
2:I:153:ILE:CD1	8:I:484:FAD:H2A	2.08	0.83
2:I:415:LEU:HG	2:I:432:THR:HG23	1.61	0.83
1:A:526:LEU:CD1	1:A:526:LEU:N	2.40	0.83
2:H:153:ILE:CD1	8:H:484:FAD:H2A	2.08	0.83
1:B:417:ASP:O	1:B:418:LYS:C	2.13	0.83
2:L:141:THR:HB	2:L:142:PRO:HD2	1.61	0.83
1:F:973:ASP:OD2	1:F:1298:LYS:HE3	1.79	0.83
1:D:182:MET:HE3	1:D:217:PRO:C	1.99	0.83
1:E:1447:TRP:CE2	1:E:1451:VAL:CG2	2.61	0.83
2:G:153:ILE:CD1	8:G:484:FAD:H2A	2.08	0.83
2:G:207:LEU:O	2:G:207:LEU:HD12	1.79	0.83
2:I:423:LEU:HD21	2:I:443:ILE:CD1	2.07	0.83
2:J:132:TRP:HA	2:J:202:ARG:NH1	1.94	0.83
2:L:415:LEU:HG	2:L:432:THR:HG23	1.61	0.83
2:L:71:LEU:HD22	2:L:71:LEU:O	1.79	0.83
2:I:242:VAL:HG12	2:I:403:PRO:CD	2.07	0.83
1:E:464:ILE:HD11	1:E:779:TYR:CZ	2.13	0.83
1:A:364:ILE:HD12	1:A:374:ILE:HD11	1.60	0.83
2:K:271:VAL:HG21	2:K:285:LEU:HG	1.59	0.83
2:J:186:LEU:CD2	2:J:195:LEU:HD21	2.04	0.83
2:L:153:ILE:CD1	8:L:484:FAD:H2A	2.08	0.83
2:H:132:TRP:HA	2:H:202:ARG:NH1	1.94	0.83
2:H:207:LEU:O	2:H:207:LEU:HD12	1.79	0.83
2:H:71:LEU:O	2:H:71:LEU:HD22	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1229:MET:CA	1:D:877:ARG:HG3	2.03	0.83
2:K:383:ILE:HD12	2:K:386:SER:H	1.44	0.83
2:K:242:VAL:HG12	2:K:403:PRO:CD	2.07	0.83
1:E:982:GLN:HE22	1:E:1240:ARG:HD2	1.43	0.83
1:A:1388:THR:O	1:A:1388:THR:CG2	2.27	0.83
1:E:670:LEU:O	1:E:670:LEU:HD22	1.78	0.83
1:A:253:HIS:CG	1:A:254:PRO:CD	2.52	0.83
1:D:253:HIS:CD2	1:D:254:PRO:HD2	2.14	0.83
2:G:449:LEU:HD21	2:G:451:VAL:CG1	2.08	0.83
1:A:515:ARG:HH22	1:A:966:ILE:HB	1.41	0.83
2:K:153:ILE:CD1	8:K:484:FAD:H2A	2.08	0.83
2:K:465:HIS:CE1	2:K:469:LYS:HE3	2.14	0.83
2:I:153:ILE:CG2	2:I:238:VAL:HA	2.09	0.83
2:J:430:LYS:HE2	2:J:440:ALA:HB2	1.58	0.83
2:J:465:HIS:CE1	2:J:469:LYS:HE3	2.14	0.83
2:H:465:HIS:CE1	2:H:469:LYS:HE3	2.14	0.83
1:E:1062:ARG:NH2	1:E:1088:GLU:OE2	2.12	0.83
1:A:1062:ARG:NH2	1:A:1088:GLU:OE2	2.12	0.83
2:K:141:THR:HB	2:K:142:PRO:HD2	1.61	0.83
1:B:843:VAL:HG12	1:B:844:GLU:N	1.92	0.83
1:B:1263:HIS:HE1	1:D:899:ASN:C	1.79	0.82
1:F:787:ARG:NH1	1:F:821:PRO:HG2	1.94	0.82
1:D:787:ARG:NH1	1:D:821:PRO:HG2	1.93	0.82
1:F:253:HIS:CD2	1:F:254:PRO:HD2	2.14	0.82
2:H:271:VAL:HG21	2:H:285:LEU:HG	1.59	0.82
1:D:1442:GLU:CG	2:I:374:ALA:O	2.26	0.82
2:I:304:CYS:HA	2:I:307:THR:CG2	2.08	0.82
2:H:383:ILE:HD12	2:H:386:SER:H	1.44	0.82
1:A:1391:MET:CE	1:A:1458:VAL:CG2	2.56	0.82
1:C:342:VAL:HG11	1:C:390:MET:HE2	1.59	0.82
2:J:350:PRO:HB2	2:J:373:ASP:N	1.93	0.82
2:G:271:VAL:HG21	2:G:285:LEU:HG	1.59	0.82
2:I:383:ILE:HD12	2:I:386:SER:H	1.44	0.82
1:D:1370:GLY:N	1:D:1389:GLY:O	2.12	0.82
2:H:150:VAL:HG13	2:H:173:VAL:HA	1.62	0.82
1:E:452:GLN:NE2	1:E:764:THR:CG2	2.42	0.82
1:B:746:ILE:C	1:B:747:SER:O	2.16	0.82
1:F:782:ARG:O	2:I:57:VAL:HG23	1.70	0.82
1:A:659:ILE:HG21	1:A:716:ILE:HD11	1.59	0.82
1:C:430:VAL:CG1	1:C:554:GLU:HB2	2.08	0.82
2:J:304:CYS:HA	2:J:307:THR:CG2	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:729:GLY:O	1:E:748:GLY:HA3	1.78	0.82
2:K:132:TRP:HA	2:K:202:ARG:NH1	1.94	0.82
2:I:429:THR:HG21	2:I:431:MET:HE1	1.60	0.82
2:J:153:ILE:CG2	2:J:238:VAL:HA	2.09	0.82
2:J:415:LEU:HG	2:J:432:THR:HG23	1.61	0.82
2:G:321:ARG:HD3	2:G:322:ARG:N	1.95	0.82
2:L:150:VAL:HG13	2:L:173:VAL:HA	1.62	0.82
2:L:207:LEU:HD12	2:L:207:LEU:O	1.79	0.82
1:A:838:VAL:HG12	1:A:839:PRO:N	1.92	0.82
1:C:397:SER:HB2	1:C:399:LYS:HG3	1.61	0.82
1:C:588:ARG:O	1:C:592:GLU:HG3	1.78	0.82
2:K:321:ARG:HD3	2:K:322:ARG:N	1.95	0.82
2:G:132:TRP:HA	2:G:202:ARG:NH1	1.94	0.82
2:G:465:HIS:CE1	2:G:469:LYS:HE3	2.14	0.82
1:E:59:VAL:HG22	1:E:105:TYR:HD2	1.44	0.82
2:I:350:PRO:HB2	2:I:373:ASP:N	1.93	0.82
1:B:1438:ARG:NE	2:H:376:GLY:O	2.13	0.82
1:F:1442:GLU:CG	2:G:374:ALA:O	2.26	0.82
2:H:430:LYS:HD3	2:H:460:ALA:HB2	1.62	0.82
1:E:142:GLU:H	1:E:142:GLU:CD	1.80	0.82
2:K:150:VAL:HG13	2:K:173:VAL:HA	1.62	0.82
2:K:207:LEU:O	2:K:207:LEU:HD12	1.79	0.82
2:I:186:LEU:CD2	2:I:195:LEU:HD21	2.04	0.82
2:L:153:ILE:CG2	2:L:238:VAL:HA	2.09	0.82
2:H:423:LEU:HD21	2:H:443:ILE:CD1	2.07	0.82
1:F:1370:GLY:N	1:F:1389:GLY:O	2.12	0.82
1:F:426:LEU:HD11	1:F:558:MET:HG3	1.62	0.82
1:F:182:MET:CE	1:F:217:PRO:HB3	1.95	0.82
2:I:150:VAL:HG13	2:I:173:VAL:HA	1.62	0.82
2:J:153:ILE:CD1	8:J:484:FAD:H2A	2.08	0.82
2:L:465:HIS:CE1	2:L:469:LYS:HE3	2.14	0.82
1:B:734:LEU:HD12	1:B:738:HIS:HD2	1.43	0.82
1:F:52:GLN:HE22	1:F:71:LEU:H	1.25	0.82
1:E:724:ASN:HD22	1:E:724:ASN:H	1.25	0.82
1:D:52:GLN:HE22	1:D:71:LEU:H	1.24	0.82
1:D:973:ASP:OD2	1:D:1298:LYS:HE3	1.79	0.82
1:C:434:SER:OG	1:C:438:GLU:OE2	1.97	0.82
1:A:452:GLN:NE2	1:A:764:THR:CG2	2.42	0.82
1:C:670:LEU:O	1:C:670:LEU:HD22	1.78	0.82
2:G:150:VAL:HG13	2:G:173:VAL:HA	1.62	0.82
2:G:153:ILE:CG2	2:G:238:VAL:HA	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:93:ILE:CD1	2:G:195:LEU:HD22	2.09	0.82
2:K:415:LEU:HG	2:K:432:THR:HG23	1.61	0.82
2:J:43:GLN:HE22	2:J:119:THR:HG23	1.45	0.82
2:L:406:LEU:HD23	2:L:407:PRO:CD	2.10	0.82
1:E:434:SER:OG	1:E:438:GLU:OE2	1.97	0.82
1:A:670:LEU:O	1:A:670:LEU:HD22	1.78	0.82
1:B:787:ARG:NH1	1:B:821:PRO:HG2	1.94	0.82
1:C:746:ILE:HG21	1:C:1182:ASP:N	1.94	0.82
2:I:207:LEU:HD12	2:I:207:LEU:O	1.79	0.82
2:I:465:HIS:CE1	2:I:469:LYS:HE3	2.14	0.82
1:B:710:LYS:CG	1:B:939:GLY:HA3	2.10	0.82
1:C:1062:ARG:NH2	1:C:1088:GLU:OE2	2.12	0.82
1:E:426:LEU:CD2	1:E:543:LEU:HB3	2.09	0.82
1:E:912:SER:HB2	1:E:968:PRO:HD2	1.62	0.82
1:E:932:VAL:O	1:E:933:ALA:HB2	1.78	0.82
2:H:110:ILE:CD1	2:H:118:VAL:HG13	2.10	0.82
1:E:266:VAL:O	1:E:279:THR:CG2	2.28	0.82
1:B:430:VAL:HG11	1:B:554:GLU:HB2	1.61	0.82
2:G:220:VAL:HG23	8:G:484:FAD:H62A	1.41	0.82
1:A:729:GLY:O	1:A:748:GLY:HA3	1.78	0.82
2:K:430:LYS:HD3	2:K:460:ALA:HB2	1.62	0.82
2:K:93:ILE:CD1	2:K:195:LEU:HD22	2.09	0.82
2:J:201:GLU:HG3	2:J:205:LYS:HE2	1.62	0.82
2:J:207:LEU:O	2:J:207:LEU:HD12	1.79	0.82
1:B:299:VAL:CG1	1:B:299:VAL:O	2.28	0.82
2:K:365:VAL:HG22	2:K:366:ARG:HG3	1.62	0.82
1:D:1062:ARG:CG	1:D:1062:ARG:O	2.26	0.82
1:A:426:LEU:CD2	1:A:543:LEU:HB3	2.09	0.82
1:C:950:THR:HG22	1:C:952:MET:H	1.42	0.82
1:E:364:ILE:HD12	1:E:374:ILE:HD11	1.60	0.82
2:J:150:VAL:HG13	2:J:173:VAL:HA	1.62	0.82
2:J:110:ILE:CD1	2:J:118:VAL:HG13	2.10	0.82
2:L:321:ARG:HD3	2:L:322:ARG:N	1.95	0.82
1:A:266:VAL:O	1:A:279:THR:CG2	2.28	0.82
1:D:1184:ASN:HB3	1:D:1185:PRO:CD	2.10	0.82
1:D:1047:MET:CG	1:D:1186:ARG:CZ	2.56	0.82
2:I:71:LEU:HD22	2:I:71:LEU:O	1.79	0.82
2:J:220:VAL:HG23	8:J:484:FAD:H62A	1.41	0.82
2:J:430:LYS:HD3	2:J:460:ALA:HB2	1.62	0.82
2:L:201:GLU:HG3	2:L:205:LYS:HE2	1.62	0.82
2:L:132:TRP:HA	2:L:202:ARG:NH1	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:415:LEU:HG	2:H:432:THR:HG23	1.61	0.82
2:G:406:LEU:HD23	2:G:407:PRO:CD	2.10	0.82
1:D:652:THR:HG21	1:D:703:GLY:HA2	1.59	0.82
1:D:959:SER:HA	1:D:1369:THR:HG21	1.61	0.82
1:B:1263:HIS:CE1	1:D:900:GLY:HA2	2.09	0.81
1:B:1047:MET:CG	1:B:1186:ARG:CZ	2.56	0.81
2:G:43:GLN:NE2	2:G:119:THR:HG23	1.95	0.81
1:A:746:ILE:HG23	1:A:1182:ASP:HB3	1.58	0.81
2:L:93:ILE:CD1	2:L:195:LEU:HD22	2.09	0.81
2:H:186:LEU:CD2	2:H:195:LEU:HD21	2.04	0.81
1:C:1391:MET:HE2	1:C:1458:VAL:CG2	2.02	0.81
1:B:1370:GLY:N	1:B:1389:GLY:O	2.12	0.81
1:C:1388:THR:O	1:C:1388:THR:CG2	2.27	0.81
2:L:322:ARG:HA	2:L:349:ALA:O	1.80	0.81
1:F:783:LYS:HE2	2:I:57:VAL:HG12	1.60	0.81
1:B:782:ARG:CD	2:G:53:PRO:HD2	1.99	0.81
2:G:200:VAL:HA	2:G:203:ARG:CD	2.11	0.81
1:B:1349:ARG:CG	1:B:1349:ARG:NH1	2.34	0.81
1:C:235:ASN:HD22	1:C:235:ASN:C	1.80	0.81
1:E:1391:MET:CE	1:E:1458:VAL:CG2	2.56	0.81
1:E:139:VAL:CG1	1:E:140:SER:H	1.90	0.81
2:L:383:ILE:HD12	2:L:386:SER:H	1.44	0.81
2:H:365:VAL:HG22	2:H:366:ARG:HG3	1.62	0.81
1:B:1062:ARG:O	1:B:1062:ARG:CG	2.26	0.81
1:E:1388:THR:CG2	1:E:1388:THR:O	2.27	0.81
1:B:1388:THR:CG2	1:B:1388:THR:O	2.29	0.81
1:F:240:ASN:HD21	1:F:327:TRP:HA	1.45	0.81
1:F:974:ILE:HD11	1:F:983:LEU:HD12	1.62	0.81
2:I:141:THR:HB	2:I:142:PRO:HD2	1.61	0.81
1:C:447:LEU:HD12	1:C:451:GLN:HG3	1.62	0.81
1:D:1263:HIS:CE1	1:F:900:GLY:HA2	2.09	0.81
1:E:937:LYS:HE3	1:E:1033:SER:HB2	1.59	0.81
2:K:322:ARG:HA	2:K:349:ALA:O	1.80	0.81
1:C:266:VAL:O	1:C:279:THR:CG2	2.28	0.81
1:A:746:ILE:HG21	1:A:1182:ASP:N	1.94	0.81
2:I:322:ARG:HA	2:I:349:ALA:O	1.80	0.81
2:K:153:ILE:CG2	2:K:238:VAL:HA	2.09	0.81
2:I:200:VAL:HA	2:I:203:ARG:CD	2.11	0.81
2:I:43:GLN:HE22	2:I:119:THR:HG23	1.45	0.81
2:J:71:LEU:O	2:J:71:LEU:HD22	1.79	0.81
2:I:201:GLU:HG3	2:I:205:LYS:HE2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:200:VAL:HA	2:J:203:ARG:CD	2.11	0.81
2:G:322:ARG:HA	2:G:349:ALA:O	1.80	0.81
2:L:43:GLN:NE2	2:L:119:THR:HG23	1.95	0.81
2:H:93:ILE:CD1	2:H:195:LEU:HD22	2.09	0.81
1:C:1391:MET:CE	1:C:1458:VAL:CG2	2.56	0.81
1:C:364:ILE:HD12	1:C:374:ILE:HD11	1.60	0.81
1:B:52:GLN:HE22	1:B:71:LEU:HB2	1.42	0.81
1:A:932:VAL:O	1:A:933:ALA:HB2	1.78	0.81
1:F:1471:HIS:O	1:F:1472:LEU:HB2	1.80	0.81
1:A:397:SER:HB2	1:A:399:LYS:HG3	1.61	0.81
1:B:240:ASN:HD21	1:B:327:TRP:HA	1.45	0.81
1:E:584:ASP:N	1:E:584:ASP:OD1	2.04	0.81
1:B:1184:ASN:HB3	1:B:1185:PRO:CD	2.10	0.81
2:I:110:ILE:CD1	2:I:118:VAL:HG13	2.10	0.81
2:I:319:LEU:HB2	2:I:345:ILE:HD11	1.62	0.81
2:H:321:ARG:HD3	2:H:322:ARG:N	1.95	0.81
2:I:132:TRP:HA	2:I:202:ARG:NH1	1.94	0.81
2:I:93:ILE:CD1	2:I:195:LEU:HD22	2.09	0.81
2:H:429:THR:HG21	2:H:431:MET:HE1	1.63	0.81
1:D:1317:THR:CG2	1:D:1318:ASN:N	2.44	0.81
1:E:113:ASN:ND2	1:E:113:ASN:C	2.26	0.81
1:A:434:SER:OG	1:A:438:GLU:OE2	1.97	0.81
2:J:321:ARG:HD3	2:J:322:ARG:N	1.95	0.81
1:A:531:ASN:OD1	1:A:533:LEU:HB2	1.81	0.81
1:A:430:VAL:CG1	1:A:554:GLU:HB2	2.08	0.81
1:E:950:THR:HG22	1:E:952:MET:H	1.42	0.81
1:A:950:THR:HG22	1:A:952:MET:N	1.95	0.81
1:D:240:ASN:HD21	1:D:327:TRP:HA	1.45	0.81
1:F:866:GLU:OE2	1:F:1125:ARG:NH2	2.14	0.81
1:D:815:GLU:OE1	1:D:815:GLU:HA	1.80	0.81
1:D:1388:THR:CG2	1:D:1388:THR:O	2.29	0.81
2:H:141:THR:HB	2:H:142:PRO:HD2	1.61	0.81
1:B:974:ILE:HD11	1:B:983:LEU:HD12	1.62	0.81
1:A:447:LEU:HD12	1:A:451:GLN:HG3	1.62	0.81
1:C:452:GLN:NE2	1:C:764:THR:CG2	2.42	0.81
2:L:319:LEU:HB2	2:L:345:ILE:HD11	1.62	0.81
2:J:322:ARG:HD3	2:J:349:ALA:O	1.81	0.81
1:B:782:ARG:CZ	2:G:51:GLY:CA	1.75	0.81
1:E:531:ASN:OD1	1:E:533:LEU:HB2	1.81	0.81
1:D:1438:ARG:NE	2:I:376:GLY:O	2.13	0.81
2:I:220:VAL:HG23	8:I:484:FAD:H62A	1.41	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:93:ILE:CD1	2:J:195:LEU:HD22	2.09	0.81
1:D:417:ASP:O	1:D:418:LYS:C	2.13	0.81
1:F:1388:THR:CG2	1:F:1388:THR:O	2.29	0.81
2:K:110:ILE:CD1	2:K:118:VAL:HG13	2.10	0.81
2:L:322:ARG:HD3	2:L:349:ALA:O	1.81	0.81
1:F:430:VAL:HG11	1:F:554:GLU:HB2	1.61	0.81
1:E:290:THR:HG22	1:E:291:ALA:N	1.95	0.81
2:I:322:ARG:HD3	2:I:349:ALA:O	1.81	0.81
2:K:43:GLN:NE2	2:K:119:THR:HG23	1.95	0.81
2:H:43:GLN:HE22	2:H:119:THR:HG23	1.45	0.81
2:G:141:THR:HB	2:G:142:PRO:HD2	1.61	0.81
2:J:267:THR:HG21	2:J:286:ASN:ND2	1.96	0.81
2:I:321:ARG:HD3	2:I:322:ARG:N	1.95	0.81
1:F:1438:ARG:NE	2:G:376:GLY:O	2.13	0.81
2:H:153:ILE:CG2	2:H:238:VAL:HA	2.09	0.81
2:H:43:GLN:NE2	2:H:119:THR:HG23	1.95	0.81
1:C:526:LEU:HD12	1:C:526:LEU:H	1.44	0.81
2:J:418:THR:HB	2:J:424:LEU:CD1	2.11	0.81
1:B:182:MET:HE2	1:B:217:PRO:CB	1.80	0.81
1:A:1376:LEU:HB3	1:A:1439:PHE:HE1	1.45	0.81
1:D:430:VAL:HG11	1:D:554:GLU:HB2	1.61	0.81
1:C:531:ASN:OD1	1:C:533:LEU:HB2	1.81	0.81
1:D:746:ILE:C	1:D:747:SER:O	2.16	0.81
2:H:267:THR:HG21	2:H:286:ASN:ND2	1.96	0.81
2:G:201:GLU:HG3	2:G:205:LYS:HE2	1.62	0.81
1:C:950:THR:HG22	1:C:952:MET:N	1.95	0.81
1:E:537:GLU:HG3	1:E:538:THR:N	1.92	0.81
2:K:267:THR:HG21	2:K:286:ASN:ND2	1.96	0.81
1:A:746:ILE:CG2	1:A:1182:ASP:N	2.43	0.81
2:G:322:ARG:HD3	2:G:349:ALA:O	1.81	0.81
2:H:201:GLU:HG3	2:H:205:LYS:HE2	1.62	0.81
2:G:365:VAL:HG22	2:G:366:ARG:HG3	1.62	0.81
1:F:734:LEU:HD12	1:F:738:HIS:HD2	1.43	0.81
1:E:1376:LEU:HB3	1:E:1439:PHE:HE1	1.45	0.80
2:I:430:LYS:HD3	2:I:460:ALA:HB2	1.62	0.80
2:I:267:THR:HG21	2:I:286:ASN:ND2	1.96	0.80
2:L:200:VAL:HA	2:L:203:ARG:CD	2.10	0.80
2:L:43:GLN:HE22	2:L:119:THR:HG23	1.45	0.80
1:A:526:LEU:HD12	1:A:526:LEU:H	1.44	0.80
2:J:406:LEU:HD23	2:J:407:PRO:CD	2.10	0.80
2:G:383:ILE:HD12	2:G:386:SER:H	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:299:VAL:CG1	1:D:299:VAL:O	2.28	0.80
2:H:418:THR:HB	2:H:424:LEU:CD1	2.11	0.80
1:C:295:LYS:HZ3	1:C:299:VAL:HG12	1.46	0.80
1:E:405:GLU:H	1:E:405:GLU:CD	1.81	0.80
1:C:405:GLU:H	1:C:405:GLU:CD	1.81	0.80
1:E:317:ILE:HG22	1:E:321:ASN:HD21	1.47	0.80
1:A:1322:ILE:HG23	1:A:1323:ILE:HG23	1.63	0.80
1:D:302:ALA:HA	1:D:347:ARG:HH12	1.46	0.80
1:B:900:GLY:HA2	1:F:1263:HIS:CE1	2.09	0.80
1:B:253:HIS:CD2	1:B:254:PRO:HD2	2.14	0.80
1:F:1184:ASN:HB3	1:F:1185:PRO:CD	2.10	0.80
2:K:200:VAL:HA	2:K:203:ARG:CD	2.11	0.80
2:J:423:LEU:CD2	2:J:443:ILE:HD13	2.11	0.80
1:A:405:GLU:CD	1:A:405:GLU:H	1.81	0.80
1:A:973:ASP:OD2	1:A:1298:LYS:HE3	1.81	0.80
1:E:1322:ILE:HG23	1:E:1323:ILE:HG23	1.63	0.80
2:K:321:ARG:HB2	2:K:351:GLU:HA	1.64	0.80
1:B:447:LEU:HD21	1:B:674:ALA:HA	1.64	0.80
2:H:322:ARG:HA	2:H:349:ALA:O	1.80	0.80
2:G:267:THR:HG21	2:G:286:ASN:ND2	1.96	0.80
2:H:423:LEU:CD2	2:H:443:ILE:HD13	2.11	0.80
1:E:1008:THR:CG2	1:E:1009:ILE:N	2.44	0.80
1:C:426:LEU:CD2	1:C:543:LEU:HB3	2.09	0.80
1:A:317:ILE:HG22	1:A:321:ASN:HD21	1.47	0.80
1:E:973:ASP:OD2	1:E:1298:LYS:HE3	1.81	0.80
1:C:1184:ASN:HB3	1:C:1185:PRO:CD	2.11	0.80
1:A:290:THR:HG22	1:A:291:ALA:N	1.96	0.80
2:I:429:THR:HG21	2:I:431:MET:CE	2.12	0.80
2:H:200:VAL:HA	2:H:203:ARG:CD	2.10	0.80
2:H:434:MET:HB2	2:H:437:VAL:CG1	2.12	0.80
2:K:406:LEU:HD23	2:K:407:PRO:CD	2.10	0.80
1:F:652:THR:CG2	1:F:703:GLY:CA	2.59	0.80
1:D:734:LEU:HD12	1:D:738:HIS:HD2	1.43	0.80
1:B:218:THR:O	1:B:218:THR:HG22	1.82	0.80
1:F:302:ALA:HA	1:F:347:ARG:HH12	1.46	0.80
1:A:1229:MET:CA	1:E:877:ARG:HG3	2.11	0.80
2:J:319:LEU:HB2	2:J:345:ILE:HD11	1.62	0.80
2:G:110:ILE:CD1	2:G:118:VAL:HG13	2.10	0.80
1:A:375:ASP:OD2	1:A:377:THR:CB	2.26	0.80
2:K:306:ARG:O	2:K:309:ILE:HG12	1.82	0.80
2:K:429:THR:HG21	2:K:431:MET:CE	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:203:ARG:HB3	2:J:203:ARG:CZ	2.11	0.80
1:D:242:ASN:H	1:D:242:ASN:ND2	1.79	0.80
1:F:1062:ARG:CG	1:F:1062:ARG:O	2.26	0.80
1:A:959:SER:HA	1:A:1369:THR:HG23	1.62	0.80
1:E:397:SER:HB2	1:E:399:LYS:HG3	1.61	0.80
1:C:230:HIS:HE1	1:C:234:ILE:HG13	1.46	0.80
1:E:447:LEU:HD12	1:E:451:GLN:HG3	1.62	0.80
2:L:110:ILE:CD1	2:L:118:VAL:HG13	2.10	0.80
1:D:783:LYS:HE2	2:H:57:VAL:HG12	1.60	0.80
1:A:875:MET:HE2	1:A:1139:PHE:CZ	2.15	0.80
2:G:161:ALA:HB2	2:G:454:ILE:HG12	1.64	0.80
2:G:430:LYS:HD3	2:G:460:ALA:HB2	1.62	0.80
2:K:201:GLU:HG3	2:K:205:LYS:HE2	1.62	0.80
2:I:43:GLN:NE2	2:I:119:THR:HG23	1.95	0.80
1:B:242:ASN:ND2	1:B:242:ASN:H	1.79	0.80
2:K:418:THR:HB	2:K:424:LEU:CD1	2.11	0.80
1:D:652:THR:CG2	1:D:703:GLY:CA	2.59	0.80
1:D:963:VAL:CG1	1:D:964:MET:N	2.45	0.80
1:A:501:GLN:HE21	1:A:653:HIS:HD2	1.30	0.80
1:C:1376:LEU:HB3	1:C:1439:PHE:HE1	1.45	0.80
2:J:322:ARG:HA	2:J:349:ALA:O	1.80	0.80
2:G:69:LEU:HD12	2:G:69:LEU:O	1.82	0.80
1:C:59:VAL:HG22	1:C:105:TYR:HD2	1.44	0.80
2:H:322:ARG:HD3	2:H:349:ALA:O	1.81	0.80
2:H:331:GLN:HA	2:H:334:VAL:CG2	2.12	0.80
2:J:43:GLN:NE2	2:J:119:THR:HG23	1.95	0.80
2:J:383:ILE:HD12	2:J:386:SER:H	1.44	0.80
1:C:912:SER:HB2	1:C:968:PRO:HD2	1.62	0.80
1:B:973:ASP:OD2	1:B:1298:LYS:HE3	1.79	0.80
1:E:454:PHE:CG	1:E:648:GLU:HB2	2.17	0.80
1:E:875:MET:HE2	1:E:1139:PHE:CZ	2.17	0.80
2:J:123:VAL:O	2:J:127:ILE:HG22	1.82	0.80
2:J:429:THR:HG21	2:J:431:MET:CE	2.12	0.80
2:G:319:LEU:HB2	2:G:345:ILE:HD11	1.62	0.80
2:H:161:ALA:HB2	2:H:454:ILE:HG12	1.64	0.80
2:J:365:VAL:HG22	2:J:366:ARG:HG3	1.62	0.80
1:F:959:SER:HA	1:F:1369:THR:HG21	1.61	0.80
1:E:950:THR:HG22	1:E:952:MET:N	1.95	0.80
1:D:426:LEU:HD11	1:D:558:MET:HG3	1.61	0.80
1:A:912:SER:HB2	1:A:968:PRO:HD2	1.62	0.80
2:J:141:THR:HB	2:J:142:PRO:HD2	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1471:HIS:O	1:D:1472:LEU:HB2	1.80	0.80
1:C:1322:ILE:HG23	1:C:1323:ILE:HG23	1.63	0.80
1:A:877:ARG:HG3	1:C:1229:MET:CA	2.11	0.80
2:L:321:ARG:HB2	2:L:351:GLU:HA	1.64	0.80
1:F:1039:LYS:O	1:F:1040:PHE:HD1	1.63	0.80
2:G:306:ARG:O	2:G:309:ILE:HG12	1.82	0.80
2:K:423:LEU:CD2	2:K:443:ILE:HD13	2.11	0.80
2:I:92:GLU:HB2	2:I:203:ARG:CZ	2.12	0.80
2:J:306:ARG:O	2:J:309:ILE:HG12	1.82	0.80
2:J:450:VAL:HG12	8:J:484:FAD:O2	1.82	0.80
1:F:582:LEU:H	1:F:755:GLN:HE22	1.30	0.80
1:D:974:ILE:HD11	1:D:983:LEU:HD12	1.62	0.80
1:B:1263:HIS:ND1	1:D:899:ASN:O	2.15	0.80
1:B:1039:LYS:O	1:B:1040:PHE:HD1	1.63	0.80
1:B:899:ASN:O	1:F:1263:HIS:ND1	2.15	0.80
1:B:900:GLY:CA	1:F:1263:HIS:NE2	2.17	0.80
1:D:1114:PRO:O	2:H:112:GLN:HA	1.82	0.80
2:K:319:LEU:HB2	2:K:345:ILE:HD11	1.62	0.80
2:K:322:ARG:HD3	2:K:349:ALA:O	1.81	0.80
1:B:555:PHE:CD1	1:B:555:PHE:C	2.55	0.80
1:B:466:HIS:CE1	1:B:684:PHE:CE1	2.70	0.80
2:J:92:GLU:HB2	2:J:203:ARG:CZ	2.12	0.80
2:L:267:THR:HG21	2:L:286:ASN:ND2	1.96	0.80
2:H:306:ARG:O	2:H:309:ILE:HG12	1.82	0.80
2:L:365:VAL:HG22	2:L:366:ARG:HG3	1.62	0.80
1:D:235:ASN:HD22	1:D:236:THR:N	1.81	0.80
1:E:310:PRO:HG3	1:E:404:ARG:HH22	1.43	0.80
1:F:1121:ASP:OD2	1:F:1124:LEU:HB2	1.82	0.80
1:F:582:LEU:H	1:F:755:GLN:NE2	1.80	0.80
1:D:37:ASP:OD2	1:D:40:THR:HB	1.82	0.80
1:B:1121:ASP:OD2	1:B:1124:LEU:HB2	1.82	0.80
1:D:824:GLN:O	1:D:827:ASP:HB2	1.81	0.80
1:B:746:ILE:CG2	1:B:1182:ASP:N	2.37	0.79
1:B:877:ARG:HG3	1:F:1229:MET:CA	2.03	0.79
1:D:447:LEU:HD21	1:D:674:ALA:HA	1.64	0.79
2:G:450:VAL:HG12	8:G:484:FAD:O2	1.82	0.79
2:I:203:ARG:HB3	2:I:203:ARG:CZ	2.11	0.79
2:J:69:LEU:HD12	2:J:69:LEU:O	1.82	0.79
2:G:288:ALA:HB2	2:G:311:GLN:OE1	1.83	0.79
2:L:450:VAL:HG12	8:L:484:FAD:O2	1.81	0.79
2:L:288:ALA:HB2	2:L:311:GLN:OE1	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:365:VAL:HG22	2:I:366:ARG:HG3	1.62	0.79
1:D:1131:THR:HB	1:D:1134:LYS:HG3	1.65	0.79
1:B:959:SER:HA	1:B:1369:THR:HG21	1.61	0.79
1:B:815:GLU:OE1	1:B:815:GLU:HA	1.80	0.79
1:B:582:LEU:H	1:B:755:GLN:HE22	1.30	0.79
1:D:866:GLU:OE2	1:D:1125:ARG:NH2	2.14	0.79
1:D:1263:HIS:ND1	1:F:899:ASN:O	2.15	0.79
1:C:876:ASN:CB	1:E:1227:GLU:OE1	2.31	0.79
1:D:782:ARG:O	2:H:57:VAL:HG23	1.70	0.79
1:E:1184:ASN:HB3	1:E:1185:PRO:CD	2.11	0.79
1:F:466:HIS:CE1	1:F:684:PHE:CE1	2.70	0.79
1:C:746:ILE:CG2	1:C:1182:ASP:N	2.43	0.79
2:K:434:MET:HB2	2:K:437:VAL:CG1	2.12	0.79
2:K:69:LEU:O	2:K:69:LEU:HD12	1.82	0.79
2:L:394:LEU:HD22	2:L:396:ILE:HD12	1.65	0.79
1:E:974:ILE:HD11	1:E:983:LEU:CD1	2.13	0.79
1:D:565:THR:CG2	1:D:602:THR:HB	2.13	0.79
1:B:963:VAL:CG1	1:B:964:MET:N	2.45	0.79
1:B:426:LEU:HD11	1:B:558:MET:HG3	1.62	0.79
1:A:787:ARG:HH12	1:A:821:PRO:HB2	1.47	0.79
1:B:778:PHE:CZ	1:B:1039:LYS:HD2	2.18	0.79
1:A:1401:LEU:HD12	1:A:1401:LEU:C	2.03	0.79
2:L:375:THR:HG22	2:L:377:ARG:H	1.47	0.79
1:F:1131:THR:HB	1:F:1134:LYS:HG3	1.64	0.79
2:K:288:ALA:HB2	2:K:311:GLN:OE1	1.83	0.79
2:H:375:THR:HG22	2:H:377:ARG:H	1.47	0.79
2:L:92:GLU:HB2	2:L:203:ARG:CZ	2.12	0.79
2:H:450:VAL:HG12	8:H:484:FAD:O2	1.81	0.79
2:H:92:GLU:HB2	2:H:203:ARG:CZ	2.12	0.79
2:I:406:LEU:HD23	2:I:407:PRO:CD	2.10	0.79
1:B:310:PRO:HG3	1:B:404:ARG:HH22	1.45	0.79
1:B:37:ASP:OD2	1:B:40:THR:HB	1.82	0.79
1:E:90:ARG:NH1	1:E:129:GLU:OE1	2.16	0.79
1:C:317:ILE:HG22	1:C:321:ASN:HD21	1.47	0.79
1:A:1227:GLU:OE1	1:E:876:ASN:CB	2.31	0.79
1:C:1401:LEU:C	1:C:1401:LEU:HD12	2.03	0.79
1:B:1114:PRO:O	2:G:112:GLN:HA	1.82	0.79
2:G:43:GLN:HE22	2:G:119:THR:HG23	1.45	0.79
2:G:203:ARG:CZ	2:G:203:ARG:HB3	2.11	0.79
2:G:429:THR:HG21	2:G:431:MET:CE	2.12	0.79
2:I:123:VAL:O	2:I:127:ILE:HG22	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:288:ALA:HB2	2:I:311:GLN:OE1	1.83	0.79
2:L:430:LYS:HD3	2:L:460:ALA:HB2	1.62	0.79
2:L:434:MET:HB2	2:L:437:VAL:CG1	2.12	0.79
1:D:710:LYS:CG	1:D:939:GLY:HA3	2.10	0.79
1:B:1317:THR:CG2	1:B:1318:ASN:N	2.44	0.79
1:A:1008:THR:CG2	1:A:1009:ILE:N	2.44	0.79
1:C:1008:THR:CG2	1:C:1009:ILE:N	2.44	0.79
1:B:1471:HIS:O	1:B:1472:LEU:HB2	1.80	0.79
1:C:454:PHE:CG	1:C:648:GLU:HB2	2.17	0.79
1:F:815:GLU:OE1	1:F:815:GLU:HA	1.80	0.79
1:C:973:ASP:OD2	1:C:1298:LYS:HE3	1.82	0.79
2:I:375:THR:HG22	2:I:377:ARG:H	1.47	0.79
1:A:515:ARG:HD2	1:A:1367:TYR:HE1	1.46	0.79
2:K:203:ARG:CZ	2:K:203:ARG:HB3	2.11	0.79
2:G:375:THR:HG22	2:G:377:ARG:H	1.47	0.79
2:G:394:LEU:HD22	2:G:396:ILE:HD12	1.65	0.79
2:L:153:ILE:CD1	8:L:484:FAD:C2A	2.61	0.79
2:L:203:ARG:CZ	2:L:203:ARG:HB3	2.11	0.79
2:L:429:THR:HG21	2:L:431:MET:CE	2.12	0.79
2:H:123:VAL:O	2:H:127:ILE:HG22	1.82	0.79
2:H:429:THR:HG21	2:H:431:MET:CE	2.12	0.79
1:F:565:THR:CG2	1:F:602:THR:HB	2.13	0.79
1:C:959:SER:HA	1:C:1369:THR:HG23	1.63	0.79
1:B:302:ALA:HA	1:B:347:ARG:HH12	1.46	0.79
1:A:230:HIS:HE1	1:A:234:ILE:HG13	1.46	0.79
2:J:331:GLN:HA	2:J:334:VAL:CG2	2.12	0.79
2:J:321:ARG:HB2	2:J:351:GLU:CG	2.13	0.79
2:J:375:THR:HG22	2:J:377:ARG:H	1.47	0.79
1:F:778:PHE:CZ	1:F:1039:LYS:HD2	2.18	0.79
1:D:1047:MET:HG2	1:D:1186:ARG:NH1	1.97	0.79
2:G:92:GLU:HB2	2:G:203:ARG:CZ	2.12	0.79
2:I:394:LEU:HD22	2:I:396:ILE:HD12	1.65	0.79
2:L:465:HIS:O	2:L:469:LYS:HG2	1.83	0.79
2:L:69:LEU:O	2:L:69:LEU:HD12	1.82	0.79
1:A:139:VAL:CG1	1:A:140:SER:H	1.90	0.79
1:D:1121:ASP:OD2	1:D:1124:LEU:HB2	1.82	0.79
1:D:582:LEU:H	1:D:755:GLN:NE2	1.80	0.79
1:C:1114:PRO:HA	2:K:112:GLN:C	1.74	0.79
2:K:321:ARG:HB2	2:K:351:GLU:CG	2.13	0.79
1:D:555:PHE:CD1	1:D:555:PHE:C	2.55	0.79
2:I:450:VAL:HG12	8:I:484:FAD:O2	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:930:ILE:HD13	1:A:983:LEU:HD13	1.65	0.79
1:E:959:SER:HA	1:E:1369:THR:HG23	1.62	0.79
1:E:230:HIS:HE1	1:E:234:ILE:HG13	1.45	0.79
1:F:37:ASP:OD2	1:F:40:THR:HB	1.82	0.79
1:D:466:HIS:CE1	1:D:684:PHE:CE1	2.70	0.79
1:F:1114:PRO:O	2:I:112:GLN:HA	1.82	0.79
1:E:501:GLN:HE21	1:E:653:HIS:HD2	1.30	0.79
1:E:1401:LEU:C	1:E:1401:LEU:HD12	2.03	0.79
2:H:288:ALA:HB2	2:H:311:GLN:OE1	1.82	0.79
2:H:321:ARG:HB2	2:H:351:GLU:HA	1.64	0.79
2:I:71:LEU:HD21	2:I:76:ARG:CB	2.12	0.79
2:J:92:GLU:OE1	2:J:199:VAL:HG22	1.83	0.79
2:J:161:ALA:HB2	2:J:454:ILE:HG12	1.64	0.79
1:C:139:VAL:CG1	1:C:140:SER:H	1.90	0.79
1:D:310:PRO:HG3	1:D:404:ARG:HH22	1.45	0.79
1:B:1318:ASN:HD22	1:B:1318:ASN:H	1.30	0.79
1:B:565:THR:CG2	1:B:602:THR:HB	2.12	0.79
1:A:580:GLU:O	1:A:584:ASP:OD1	2.01	0.79
1:A:47:HIS:CE1	1:A:176:SER:HB3	2.18	0.79
1:A:182:MET:HE3	1:A:217:PRO:HB3	1.60	0.79
1:F:746:ILE:CG2	1:F:1182:ASP:N	2.37	0.79
1:F:447:LEU:HD21	1:F:674:ALA:HA	1.64	0.79
2:G:92:GLU:OE1	2:G:199:VAL:HG22	1.83	0.79
2:K:429:THR:HG21	2:K:431:MET:HE1	1.65	0.79
2:K:161:ALA:HB2	2:K:454:ILE:HG12	1.64	0.79
2:K:153:ILE:CD1	8:K:484:FAD:C2A	2.61	0.79
2:I:434:MET:HB2	2:I:437:VAL:CG1	2.12	0.79
2:J:71:LEU:HD21	2:J:76:ARG:CB	2.12	0.79
2:G:321:ARG:HB2	2:G:351:GLU:CG	2.13	0.79
2:L:71:LEU:CD2	2:L:76:ARG:HB2	2.13	0.79
1:E:526:LEU:H	1:E:526:LEU:HD12	1.44	0.79
1:B:582:LEU:H	1:B:755:GLN:NE2	1.80	0.79
1:A:1290:GLY:O	1:A:1291:ASP:HB3	1.82	0.79
1:B:1227:GLU:HA	1:D:900:GLY:O	1.83	0.79
1:B:1131:THR:HB	1:B:1134:LYS:HG3	1.65	0.79
1:F:1047:MET:HG2	1:F:1186:ARG:NH1	1.97	0.79
1:A:551:THR:OG1	1:A:554:GLU:HG2	1.83	0.79
2:G:123:VAL:O	2:G:127:ILE:HG22	1.82	0.79
1:E:515:ARG:CD	1:E:1367:TYR:HE1	1.96	0.79
2:K:71:LEU:CD2	2:K:76:ARG:HB2	2.13	0.79
2:K:92:GLU:HB2	2:K:203:ARG:CZ	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:319:LEU:HB2	2:H:345:ILE:HD11	1.62	0.79
2:I:153:ILE:CD1	8:I:484:FAD:C2A	2.61	0.79
1:D:582:LEU:H	1:D:755:GLN:HE22	1.30	0.79
1:E:1438:ARG:HB3	2:K:376:GLY:N	1.84	0.78
2:I:321:ARG:HB2	2:I:351:GLU:HA	1.64	0.78
2:I:351:GLU:N	2:I:372:ALA:HB3	1.99	0.78
2:I:71:LEU:CD2	2:I:76:ARG:HB2	2.13	0.78
2:H:71:LEU:HD21	2:H:76:ARG:CB	2.12	0.78
1:C:930:ILE:HD13	1:C:983:LEU:HD13	1.65	0.78
1:B:235:ASN:HD22	1:B:236:THR:N	1.81	0.78
1:F:1318:ASN:H	1:F:1318:ASN:HD22	1.30	0.78
1:C:47:HIS:CE1	1:C:176:SER:HB3	2.17	0.78
1:F:963:VAL:CG1	1:F:964:MET:N	2.45	0.78
1:D:982:GLN:HE22	1:D:1240:ARG:HD2	1.48	0.78
1:B:982:GLN:HE22	1:B:1240:ARG:HD2	1.48	0.78
1:F:824:GLN:O	1:F:827:ASP:HB2	1.82	0.78
1:B:900:GLY:O	1:F:1227:GLU:HA	1.83	0.78
1:A:1401:LEU:CD1	1:A:1405:ILE:HB	2.13	0.78
2:K:349:ALA:HB3	2:K:350:PRO:HD3	1.66	0.78
1:F:430:VAL:CG1	1:F:554:GLU:HB3	2.02	0.78
2:G:153:ILE:CD1	8:G:484:FAD:C2A	2.61	0.78
2:K:450:VAL:HG12	8:K:484:FAD:O2	1.81	0.78
2:J:434:MET:HB2	2:J:437:VAL:CG1	2.12	0.78
1:A:974:ILE:HD11	1:A:983:LEU:CD1	2.13	0.78
1:E:47:HIS:CE1	1:E:176:SER:HB3	2.18	0.78
1:A:113:ASN:HD21	1:A:115:ASP:H	1.31	0.78
1:F:950:THR:CG2	1:F:952:MET:H	1.97	0.78
1:B:266:VAL:HG12	1:B:279:THR:CG2	2.14	0.78
1:E:704:LEU:O	1:E:705:LEU:C	2.20	0.78
2:K:331:GLN:HA	2:K:334:VAL:CG2	2.12	0.78
1:E:746:ILE:CG2	1:E:1182:ASP:N	2.43	0.78
2:H:351:GLU:N	2:H:372:ALA:HB3	1.99	0.78
2:I:306:ARG:O	2:I:309:ILE:HG12	1.82	0.78
2:L:71:LEU:HD21	2:L:76:ARG:CB	2.12	0.78
2:H:92:GLU:OE1	2:H:199:VAL:HG22	1.83	0.78
2:G:418:THR:HB	2:G:424:LEU:CD1	2.11	0.78
1:F:1317:THR:CG2	1:F:1318:ASN:N	2.44	0.78
1:C:310:PRO:HG3	1:C:404:ARG:HH22	1.43	0.78
1:C:580:GLU:O	1:C:584:ASP:OD1	2.01	0.78
1:A:454:PHE:CG	1:A:648:GLU:HB2	2.17	0.78
1:A:450:ARG:O	1:A:452:GLN:N	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:447:LEU:HD21	1:E:674:ALA:CA	2.13	0.78
1:A:876:ASN:CB	1:C:1227:GLU:OE1	2.31	0.78
1:F:1449:ARG:NH1	1:F:1449:ARG:CB	1.80	0.78
2:J:349:ALA:HB3	2:J:350:PRO:HD3	1.66	0.78
2:J:351:GLU:N	2:J:372:ALA:HB3	1.99	0.78
1:B:260:MET:O	1:B:263:LEU:HB2	1.84	0.78
1:D:778:PHE:CZ	1:D:1039:LYS:HD2	2.18	0.78
2:G:465:HIS:O	2:G:469:LYS:HG2	1.83	0.78
2:G:71:LEU:HG	2:G:79:GLU:CB	2.14	0.78
2:H:71:LEU:CD2	2:H:76:ARG:HB2	2.13	0.78
2:H:406:LEU:HD23	2:H:407:PRO:CD	2.10	0.78
1:D:522:LEU:HD21	1:D:705:LEU:CD2	2.14	0.78
1:F:242:ASN:ND2	1:F:242:ASN:H	1.79	0.78
1:D:218:THR:O	1:D:218:THR:HG22	1.82	0.78
1:B:824:GLN:O	1:B:827:ASP:HB2	1.82	0.78
1:A:1043:LEU:HD23	1:A:1044:PRO:HD2	1.66	0.78
1:E:450:ARG:O	1:E:452:GLN:N	2.17	0.78
1:C:182:MET:HE3	1:C:217:PRO:HB2	0.99	0.78
2:L:331:GLN:HA	2:L:334:VAL:CG2	2.12	0.78
2:K:351:GLU:N	2:K:372:ALA:HB3	1.99	0.78
1:D:260:MET:O	1:D:263:LEU:HB2	1.84	0.78
1:C:290:THR:HG22	1:C:291:ALA:N	1.96	0.78
2:J:394:LEU:HD22	2:J:396:ILE:HD12	1.65	0.78
2:K:43:GLN:HE22	2:K:119:THR:HG23	1.45	0.78
2:I:465:HIS:O	2:I:469:LYS:HG2	1.83	0.78
2:I:92:GLU:OE1	2:I:199:VAL:HG22	1.83	0.78
2:G:331:GLN:HA	2:G:334:VAL:CG2	2.12	0.78
2:G:321:ARG:HB2	2:G:351:GLU:HA	1.64	0.78
2:L:123:VAL:O	2:L:127:ILE:HG22	1.82	0.78
2:L:306:ARG:O	2:L:309:ILE:HG12	1.82	0.78
1:F:235:ASN:HD22	1:F:236:THR:N	1.81	0.78
1:B:531:ASN:OD1	1:B:533:LEU:HB2	1.83	0.78
1:F:982:GLN:HE22	1:F:1240:ARG:HD2	1.48	0.78
1:F:266:VAL:HG12	1:F:279:THR:CG2	2.14	0.78
1:B:1047:MET:HG2	1:B:1186:ARG:NH1	1.97	0.78
1:C:1401:LEU:CD1	1:C:1405:ILE:HB	2.13	0.78
1:F:782:ARG:O	2:I:57:VAL:HG21	1.84	0.78
1:E:1401:LEU:CD1	1:E:1405:ILE:HB	2.13	0.78
1:C:253:HIS:CG	1:C:254:PRO:CD	2.52	0.78
1:D:746:ILE:CG2	1:D:1182:ASP:N	2.37	0.78
2:G:434:MET:HB2	2:G:437:VAL:CG1	2.12	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:321:ARG:HB2	2:I:351:GLU:CG	2.13	0.78
2:H:349:ALA:HB3	2:H:350:PRO:HD3	1.66	0.78
2:L:161:ALA:HB2	2:L:454:ILE:HG12	1.64	0.78
2:H:69:LEU:O	2:H:69:LEU:HD12	1.82	0.78
1:C:501:GLN:HE21	1:C:653:HIS:HD2	1.30	0.78
1:D:266:VAL:HG12	1:D:279:THR:CG2	2.14	0.78
1:A:90:ARG:NH1	1:A:129:GLU:OE1	2.16	0.78
1:C:877:ARG:HG3	1:E:1229:MET:CA	2.11	0.78
1:E:746:ILE:HG21	1:E:1182:ASP:N	1.94	0.78
2:J:71:LEU:CD2	2:J:76:ARG:HB2	2.13	0.78
2:G:321:ARG:CA	2:G:351:GLU:HA	2.14	0.78
1:F:310:PRO:HG3	1:F:404:ARG:HH22	1.45	0.78
1:E:113:ASN:HD21	1:E:115:ASP:H	1.31	0.78
1:F:531:ASN:OD1	1:F:533:LEU:HB2	1.83	0.78
1:B:866:GLU:OE2	1:B:1125:ARG:NH2	2.14	0.78
1:C:528:ASN:HB3	1:C:542:LEU:HD22	1.66	0.78
1:A:447:LEU:HD13	1:A:670:LEU:HD21	1.65	0.78
1:B:746:ILE:O	1:B:747:SER:C	2.22	0.78
2:L:321:ARG:HB2	2:L:351:GLU:CG	2.13	0.78
2:K:317:LYS:CG	2:K:345:ILE:HD12	2.14	0.78
1:E:551:THR:OG1	1:E:554:GLU:HG2	1.83	0.78
2:G:71:LEU:CD2	2:G:76:ARG:HB2	2.13	0.78
2:I:317:LYS:CG	2:I:345:ILE:HD12	2.14	0.78
2:I:331:GLN:HA	2:I:334:VAL:CG2	2.12	0.78
2:H:321:ARG:HB2	2:H:351:GLU:CG	2.13	0.78
2:G:349:ALA:HB3	2:G:350:PRO:HD3	1.66	0.78
2:L:92:GLU:OE1	2:L:199:VAL:HG22	1.83	0.78
1:C:1043:LEU:HD23	1:C:1044:PRO:HD2	1.66	0.78
2:L:351:GLU:N	2:L:372:ALA:HB3	1.99	0.78
2:K:375:THR:HG22	2:K:377:ARG:H	1.47	0.78
2:G:71:LEU:HD21	2:G:76:ARG:CB	2.12	0.78
2:K:152:VAL:CG1	2:K:175:VAL:HA	2.12	0.78
2:G:317:LYS:CG	2:G:345:ILE:HD12	2.14	0.78
2:L:144:ARG:HB3	2:L:169:LYS:O	1.84	0.78
2:H:203:ARG:CZ	2:H:203:ARG:HB3	2.11	0.78
2:H:465:HIS:O	2:H:469:LYS:HG2	1.83	0.78
1:E:930:ILE:HD13	1:E:983:LEU:HD13	1.65	0.78
1:B:652:THR:CG2	1:B:703:GLY:CA	2.59	0.78
1:F:218:THR:HG22	1:F:218:THR:O	1.82	0.78
1:C:90:ARG:NH1	1:C:129:GLU:OE1	2.16	0.78
1:C:450:ARG:O	1:C:452:GLN:N	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:551:THR:OG1	1:C:554:GLU:HG2	1.83	0.78
2:K:394:LEU:HD22	2:K:396:ILE:HD12	1.65	0.78
2:I:161:ALA:HB2	2:I:454:ILE:HG12	1.64	0.78
1:D:950:THR:CG2	1:D:952:MET:H	1.96	0.78
1:C:213:THR:HB	1:C:1008:THR:HG23	1.66	0.78
1:E:580:GLU:O	1:E:584:ASP:OD1	2.01	0.78
1:D:782:ARG:O	2:H:57:VAL:HG21	1.84	0.77
1:E:875:MET:HE1	1:E:1139:PHE:HE2	1.34	0.77
2:K:71:LEU:HD21	2:K:76:ARG:CB	2.12	0.77
2:I:71:LEU:HG	2:I:79:GLU:CB	2.13	0.77
2:J:225:SER:CB	2:J:227:PRO:HD2	2.14	0.77
2:J:71:LEU:HG	2:J:79:GLU:CB	2.14	0.77
2:G:353:PHE:C	2:G:369:LEU:HD23	2.05	0.77
1:B:522:LEU:HD21	1:B:705:LEU:CD2	2.14	0.77
1:C:1290:GLY:O	1:C:1291:ASP:HB3	1.82	0.77
1:D:584:ASP:OD1	1:D:584:ASP:N	2.14	0.77
1:C:447:LEU:HD21	1:C:674:ALA:CA	2.13	0.77
1:C:447:LEU:HD13	1:C:670:LEU:HD21	1.65	0.77
1:B:782:ARG:O	2:G:57:VAL:HG21	1.84	0.77
1:E:1395:TYR:CE1	1:E:1397:LEU:HD21	2.20	0.77
2:G:144:ARG:HB3	2:G:169:LYS:O	1.84	0.77
2:J:288:ALA:HB2	2:J:311:GLN:OE1	1.83	0.77
2:K:123:VAL:O	2:K:127:ILE:HG22	1.82	0.77
2:I:225:SER:CB	2:I:227:PRO:HD2	2.14	0.77
2:G:319:LEU:CA	2:G:345:ILE:HD11	2.15	0.77
2:G:351:GLU:N	2:G:372:ALA:HB3	1.99	0.77
1:C:236:THR:CG2	1:C:328:ASP:N	2.45	0.77
1:F:522:LEU:HD21	1:F:705:LEU:CD2	2.14	0.77
1:D:1131:THR:HG22	1:D:1134:LYS:H	1.49	0.77
1:B:572:THR:CG2	1:B:573:PHE:N	2.47	0.77
1:B:584:ASP:OD1	1:B:584:ASP:N	2.14	0.77
1:C:595:ASP:O	1:C:596:ALA:C	2.20	0.77
2:J:317:LYS:HE3	2:J:345:ILE:CG2	2.15	0.77
2:J:353:PHE:C	2:J:369:LEU:HD23	2.05	0.77
1:C:704:LEU:O	1:C:705:LEU:C	2.20	0.77
1:F:555:PHE:CD1	1:F:555:PHE:C	2.55	0.77
1:F:746:ILE:O	1:F:747:SER:C	2.22	0.77
2:G:164:GLU:OE1	2:G:207:LEU:HA	1.85	0.77
2:I:317:LYS:HE3	2:I:345:ILE:CG2	2.15	0.77
2:H:317:LYS:CG	2:H:345:ILE:HD12	2.14	0.77
1:E:595:ASP:O	1:E:596:ALA:C	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:890:ASP:O	1:E:893:ARG:HB2	1.84	0.77
1:A:528:ASN:HB3	1:A:542:LEU:HD22	1.66	0.77
1:A:24:ALA:HB1	1:A:207:TYR:CE2	2.19	0.77
1:B:1263:HIS:CE1	1:D:900:GLY:N	2.20	0.77
2:K:353:PHE:CZ	2:K:370:GLY:HA3	2.19	0.77
2:H:394:LEU:HD22	2:H:396:ILE:HD12	1.65	0.77
2:I:353:PHE:CZ	2:I:370:GLY:HA3	2.19	0.77
2:J:430:LYS:HD2	2:J:456:ASP:O	1.85	0.77
2:H:164:GLU:OE1	2:H:207:LEU:HA	1.85	0.77
1:A:177:ILE:HD13	1:A:179:TYR:HE1	1.49	0.77
1:A:1114:PRO:HA	2:J:112:GLN:C	1.74	0.77
2:L:317:LYS:HE3	2:L:345:ILE:CG2	2.15	0.77
2:L:353:PHE:C	2:L:369:LEU:HD23	2.05	0.77
1:D:1039:LYS:O	1:D:1040:PHE:HD1	1.63	0.77
2:K:182:MET:HE2	2:K:216:PRO:HG3	1.66	0.77
2:I:353:PHE:C	2:I:369:LEU:HD23	2.05	0.77
2:K:465:HIS:O	2:K:469:LYS:HG2	1.83	0.77
2:G:181:ARG:CG	2:G:187:VAL:HG11	2.15	0.77
2:I:69:LEU:O	2:I:69:LEU:HD12	1.82	0.77
2:J:164:GLU:OE1	2:J:207:LEU:HA	1.85	0.77
2:L:423:LEU:CD2	2:L:443:ILE:HD13	2.11	0.77
2:L:418:THR:HB	2:L:424:LEU:CD1	2.11	0.77
1:B:249:THR:HG22	1:B:250:ARG:HG2	1.67	0.77
1:C:787:ARG:HH12	1:C:821:PRO:HB2	1.47	0.77
2:L:317:LYS:CG	2:L:345:ILE:HD12	2.14	0.77
1:A:1184:ASN:HB3	1:A:1185:PRO:CD	2.11	0.77
1:D:746:ILE:O	1:D:747:SER:C	2.22	0.77
2:I:321:ARG:CB	2:I:351:GLU:HG2	2.15	0.77
2:I:349:ALA:HB3	2:I:350:PRO:HD3	1.66	0.77
2:J:144:ARG:HB3	2:J:169:LYS:O	1.84	0.77
2:J:465:HIS:O	2:J:469:LYS:HG2	1.83	0.77
2:G:321:ARG:CB	2:G:351:GLU:HG2	2.15	0.77
2:L:164:GLU:OE1	2:L:207:LEU:HA	1.85	0.77
2:L:430:LYS:HD2	2:L:456:ASP:O	1.85	0.77
2:H:144:ARG:HB3	2:H:169:LYS:O	1.84	0.77
1:D:826:ARG:NH1	1:D:826:ARG:HG2	1.99	0.77
1:F:249:THR:HG22	1:F:250:ARG:HG2	1.67	0.77
1:F:580:GLU:O	1:F:584:ASP:OD1	2.03	0.77
1:B:985:TYR:HE1	1:B:1207:VAL:HG13	1.50	0.77
1:A:447:LEU:HD21	1:A:674:ALA:CA	2.13	0.77
1:E:782:ARG:NE	2:L:53:PRO:HD3	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1227:GLU:HA	1:F:900:GLY:O	1.83	0.77
1:A:1228:LYS:HB3	1:E:901:ASP:OD1	1.85	0.77
1:A:1395:TYR:CE1	1:A:1397:LEU:HD21	2.20	0.77
2:J:350:PRO:HD2	2:J:374:ALA:N	2.00	0.77
2:J:321:ARG:HB2	2:J:351:GLU:HA	1.64	0.77
2:K:321:ARG:CB	2:K:351:GLU:HG2	2.15	0.77
2:K:353:PHE:C	2:K:369:LEU:HD23	2.05	0.77
2:K:92:GLU:OE1	2:K:199:VAL:HG22	1.83	0.77
2:K:71:LEU:HG	2:K:79:GLU:CB	2.13	0.77
2:H:353:PHE:C	2:H:369:LEU:HD23	2.05	0.77
2:I:430:LYS:HD2	2:I:456:ASP:O	1.85	0.77
2:L:71:LEU:HG	2:L:79:GLU:CB	2.13	0.77
1:E:1317:THR:HG22	1:E:1318:ASN:N	2.00	0.77
1:B:1131:THR:HG22	1:B:1134:LYS:H	1.49	0.77
2:L:321:ARG:CB	2:L:351:GLU:HG2	2.15	0.77
1:A:704:LEU:O	1:A:705:LEU:C	2.20	0.77
2:K:319:LEU:CA	2:K:345:ILE:HD11	2.15	0.77
2:K:321:ARG:CA	2:K:351:GLU:HA	2.14	0.77
2:G:430:LYS:HD2	2:G:456:ASP:O	1.85	0.77
2:H:71:LEU:HG	2:H:79:GLU:CB	2.13	0.77
1:D:531:ASN:OD1	1:D:533:LEU:HB2	1.83	0.77
1:F:1102:CYS:HG	6:F:2476:F3S:FE1	0.99	0.77
1:B:731:SER:CA	1:B:748:GLY:H	1.98	0.77
1:F:1105:VAL:HG23	2:I:54:PHE:CE1	2.20	0.77
2:H:350:PRO:HD2	2:H:374:ALA:N	2.00	0.77
2:I:144:ARG:HB3	2:I:169:LYS:O	1.84	0.77
1:D:826:ARG:NH1	1:D:1046:GLU:OE2	2.18	0.77
1:B:580:GLU:O	1:B:584:ASP:OD1	2.03	0.77
1:C:1220:ARG:HG3	1:C:1224:GLU:HG3	1.67	0.77
1:C:901:ASP:OD1	1:E:1228:LYS:HB3	1.85	0.77
2:L:353:PHE:CZ	2:L:370:GLY:HA3	2.19	0.77
2:J:321:ARG:CB	2:J:351:GLU:HG2	2.15	0.77
1:D:782:ARG:CD	2:H:53:PRO:HD2	1.99	0.77
1:F:731:SER:CA	1:F:748:GLY:H	1.98	0.77
2:H:353:PHE:CZ	2:H:370:GLY:HA3	2.19	0.77
2:I:164:GLU:OE1	2:I:207:LEU:HA	1.85	0.77
2:H:225:SER:CB	2:H:227:PRO:HD2	2.14	0.77
1:B:417:ASP:C	1:B:419:TRP:N	2.38	0.77
1:D:505:GLN:NE2	1:D:1001:VAL:H	1.83	0.77
1:F:1043:LEU:HD23	1:F:1044:PRO:HD2	1.67	0.77
1:E:528:ASN:HB3	1:E:542:LEU:HD22	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1290:GLY:O	1:E:1291:ASP:HB3	1.82	0.77
1:A:182:MET:CE	1:A:217:PRO:C	2.54	0.76
1:D:820:ARG:HB3	1:D:821:PRO:CD	2.15	0.76
1:B:1105:VAL:HG23	2:G:54:PHE:CE1	2.20	0.76
1:F:153:ARG:NH2	1:F:263:LEU:O	2.18	0.76
2:G:423:LEU:CD2	2:G:443:ILE:HD13	2.11	0.76
2:G:97:ILE:HD11	2:G:450:VAL:CG1	2.15	0.76
2:K:181:ARG:CG	2:K:187:VAL:HG11	2.15	0.76
2:I:97:ILE:HD11	2:I:450:VAL:CG1	2.15	0.76
2:H:430:LYS:HD2	2:H:456:ASP:O	1.85	0.76
2:H:97:ILE:HD11	2:H:450:VAL:CG1	2.15	0.76
1:D:515:ARG:HD2	1:D:1367:TYR:HE1	1.49	0.76
1:A:213:THR:HB	1:A:1008:THR:HG23	1.66	0.76
1:A:959:SER:HA	1:A:1369:THR:HG21	1.67	0.76
1:D:572:THR:CG2	1:D:573:PHE:N	2.47	0.76
1:A:207:TYR:CD1	1:A:207:TYR:N	2.54	0.76
1:F:985:TYR:HE1	1:F:1207:VAL:HG13	1.50	0.76
1:D:985:TYR:HE1	1:D:1207:VAL:HG13	1.50	0.76
1:A:781:PHE:O	2:J:52:VAL:HB	1.85	0.76
2:K:110:ILE:CG1	2:K:117:ALA:HA	2.16	0.76
1:B:1043:LEU:HD23	1:B:1044:PRO:HD2	1.67	0.76
1:A:1356:VAL:HG22	1:A:1374:VAL:HG21	1.67	0.76
2:L:319:LEU:CA	2:L:345:ILE:HD11	2.15	0.76
2:L:349:ALA:HB3	2:L:350:PRO:HD3	1.66	0.76
1:B:820:ARG:HB3	1:B:821:PRO:CD	2.16	0.76
1:F:1131:THR:HG22	1:F:1134:LYS:H	1.49	0.76
1:D:1084:MET:SD	1:D:1168:LEU:HD21	2.25	0.76
2:I:350:PRO:HD2	2:I:374:ALA:N	2.00	0.76
2:K:97:ILE:HD11	2:K:450:VAL:CG1	2.15	0.76
1:B:1445:ASN:HB2	2:H:373:ASP:OD2	1.86	0.76
1:E:787:ARG:HH12	1:E:821:PRO:HB2	1.47	0.76
1:B:826:ARG:NH1	1:B:1046:GLU:OE2	2.18	0.76
1:C:182:MET:CE	1:C:217:PRO:C	2.54	0.76
1:E:182:MET:CE	1:E:217:PRO:C	2.54	0.76
2:J:353:PHE:CZ	2:J:370:GLY:HA3	2.19	0.76
1:E:1356:VAL:HG22	1:E:1374:VAL:HG21	1.67	0.76
1:A:505:GLN:HE21	1:A:1001:VAL:H	1.33	0.76
2:J:97:ILE:HD11	2:J:450:VAL:CG1	2.15	0.76
2:G:353:PHE:CZ	2:G:370:GLY:HA3	2.19	0.76
2:H:153:ILE:CD1	8:H:484:FAD:C2A	2.61	0.76
1:D:1318:ASN:HD22	1:D:1318:ASN:H	1.30	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:950:THR:CG2	1:C:951:GLU:H	1.98	0.76
1:E:24:ALA:HB1	1:E:207:TYR:CE2	2.19	0.76
1:A:782:ARG:NE	2:J:53:PRO:HD3	2.00	0.76
2:L:299:ASP:HA	2:L:333:GLU:OE2	1.86	0.76
2:J:321:ARG:CA	2:J:351:GLU:HA	2.14	0.76
2:H:110:ILE:CG1	2:H:117:ALA:HA	2.15	0.76
2:G:110:ILE:CG1	2:G:117:ALA:HA	2.16	0.76
2:K:164:GLU:OE1	2:K:207:LEU:HA	1.85	0.76
2:H:317:LYS:HE3	2:H:345:ILE:CG2	2.15	0.76
2:H:181:ARG:CG	2:H:187:VAL:HG11	2.15	0.76
2:G:418:THR:HA	2:G:424:LEU:HD21	1.67	0.76
1:E:236:THR:CG2	1:E:328:ASP:N	2.45	0.76
1:C:643:ASN:HB3	1:C:665:THR:CG2	2.16	0.76
1:F:426:LEU:CD1	1:F:558:MET:HG3	2.16	0.76
1:A:890:ASP:O	1:A:893:ARG:HB2	1.84	0.76
1:B:826:ARG:NH1	1:B:826:ARG:HG2	1.99	0.76
2:L:321:ARG:CA	2:L:351:GLU:HA	2.14	0.76
1:B:782:ARG:HD3	2:G:53:PRO:CD	2.10	0.76
1:D:551:THR:OG1	1:D:554:GLU:HG2	1.85	0.76
1:B:551:THR:OG1	1:B:554:GLU:HG2	1.85	0.76
1:F:1084:MET:SD	1:F:1168:LEU:HD21	2.25	0.76
2:J:181:ARG:CG	2:J:187:VAL:HG11	2.15	0.76
2:K:144:ARG:HB3	2:K:169:LYS:O	1.84	0.76
2:G:244:LYS:HD2	2:G:404:GLU:CB	2.13	0.76
2:I:146:LEU:O	2:I:171:TYR:HA	1.86	0.76
2:H:316:VAL:HB	2:H:342:VAL:HG22	1.68	0.76
1:E:643:ASN:HB3	1:E:665:THR:CG2	2.16	0.76
1:A:413:LEU:O	1:A:414:LYS:HD2	1.85	0.76
1:C:824:GLN:HE21	1:C:824:GLN:CA	1.99	0.76
1:E:298:LEU:HD23	1:E:324:MET:HG2	1.68	0.76
1:C:298:LEU:HD23	1:C:324:MET:HG2	1.68	0.76
1:A:450:ARG:O	1:A:453:ALA:N	2.19	0.76
2:L:350:PRO:HG3	2:L:380:PRO:HG3	1.68	0.76
1:B:783:LYS:CA	2:G:57:VAL:HG23	1.96	0.76
2:K:350:PRO:HG3	2:K:380:PRO:HG3	1.68	0.76
1:D:153:ARG:NH2	1:D:263:LEU:O	2.18	0.76
1:C:734:LEU:HD11	1:C:738:HIS:HD2	1.46	0.76
1:E:734:LEU:HD11	1:E:738:HIS:HD2	1.46	0.76
2:I:321:ARG:CA	2:I:351:GLU:HA	2.14	0.76
2:I:350:PRO:HG3	2:I:380:PRO:HG3	1.68	0.76
2:I:152:VAL:CG1	2:I:175:VAL:HA	2.12	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:97:ILE:HD11	2:L:450:VAL:CG1	2.15	0.76
2:I:418:THR:HB	2:I:424:LEU:CD1	2.11	0.76
1:F:299:VAL:CG1	1:F:299:VAL:O	2.28	0.76
1:B:505:GLN:NE2	1:B:1001:VAL:H	1.83	0.76
2:H:358:VAL:HG22	2:H:365:VAL:CG1	2.16	0.76
1:C:113:ASN:HD21	1:C:115:ASP:H	1.31	0.76
1:B:950:THR:CG2	1:B:952:MET:H	1.96	0.76
2:K:316:VAL:HB	2:K:342:VAL:HG22	1.68	0.76
1:A:824:GLN:CA	1:A:824:GLN:HE21	1.99	0.76
1:D:658:LEU:HD23	1:D:666:VAL:HG21	1.67	0.76
1:E:829:LEU:HD13	1:E:1168:LEU:HD13	1.67	0.76
1:C:177:ILE:HD13	1:C:179:TYR:HE1	1.49	0.76
1:C:781:PHE:O	2:K:52:VAL:HB	1.85	0.76
1:E:1220:ARG:HG3	1:E:1224:GLU:HG3	1.67	0.76
1:D:782:ARG:CZ	2:H:51:GLY:CA	1.75	0.76
1:D:1105:VAL:HG23	2:H:54:PHE:CE1	2.20	0.76
2:K:302:MET:CE	2:K:333:GLU:HG3	2.16	0.76
2:G:317:LYS:HE3	2:G:345:ILE:CG2	2.15	0.76
1:D:249:THR:HG22	1:D:250:ARG:HG2	1.67	0.76
1:F:572:THR:CG2	1:F:573:PHE:N	2.47	0.76
1:D:1043:LEU:HD23	1:D:1044:PRO:HD2	1.67	0.76
2:J:317:LYS:CG	2:J:345:ILE:HD12	2.14	0.76
1:E:260:MET:O	1:E:263:LEU:N	2.19	0.76
1:F:260:MET:O	1:F:263:LEU:HB2	1.84	0.76
2:G:316:VAL:HB	2:G:342:VAL:HG22	1.68	0.76
2:K:146:LEU:O	2:K:171:TYR:HA	1.86	0.76
2:H:302:MET:CE	2:H:333:GLU:HG3	2.16	0.76
2:H:350:PRO:HG3	2:H:380:PRO:HG3	1.68	0.76
2:H:321:ARG:CB	2:H:351:GLU:HG2	2.15	0.76
2:J:153:ILE:CD1	8:J:484:FAD:C2A	2.61	0.76
2:J:146:LEU:O	2:J:171:TYR:HA	1.86	0.76
2:L:225:SER:CB	2:L:227:PRO:HD2	2.14	0.76
1:C:974:ILE:HD11	1:C:983:LEU:CD1	2.13	0.76
1:F:529:LEU:HD23	1:F:529:LEU:N	1.92	0.76
1:E:959:SER:HA	1:E:1369:THR:HG21	1.67	0.76
1:A:950:THR:CG2	1:A:951:GLU:H	1.98	0.76
1:B:426:LEU:CD1	1:B:558:MET:HG3	2.16	0.76
1:C:536:ASP:OD1	1:C:538:THR:HG22	1.85	0.76
1:D:580:GLU:O	1:D:584:ASP:OD1	2.03	0.76
1:C:890:ASP:O	1:C:893:ARG:HB2	1.84	0.76
1:E:1043:LEU:HD23	1:E:1044:PRO:HD2	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:24:ALA:HB1	1:C:207:TYR:CE2	2.19	0.76
1:F:658:LEU:HD23	1:F:666:VAL:HG21	1.67	0.76
1:A:452:GLN:CG	1:A:765:ALA:HB2	2.16	0.76
1:E:452:GLN:CG	1:E:765:ALA:HB2	2.16	0.76
2:L:110:ILE:CG1	2:L:117:ALA:HA	2.15	0.76
2:K:350:PRO:HD2	2:K:374:ALA:N	2.00	0.76
1:F:826:ARG:NH1	1:F:1046:GLU:OE2	2.18	0.76
2:I:302:MET:CE	2:I:333:GLU:HG3	2.16	0.76
2:H:132:TRP:CD1	2:H:202:ARG:HB2	2.21	0.76
1:F:505:GLN:NE2	1:F:1001:VAL:H	1.83	0.76
1:C:959:SER:HA	1:C:1369:THR:HG21	1.67	0.76
1:A:829:LEU:HD13	1:A:1168:LEU:HD13	1.67	0.76
1:C:900:GLY:HA3	1:E:1263:HIS:CD2	2.20	0.76
1:A:1374:VAL:O	1:A:1375:ILE:CG1	2.34	0.76
2:J:319:LEU:CA	2:J:345:ILE:HD11	2.15	0.76
2:K:299:ASP:HA	2:K:333:GLU:OE2	1.86	0.76
1:D:731:SER:CA	1:D:748:GLY:H	1.98	0.76
2:G:132:TRP:CD1	2:G:202:ARG:HB2	2.21	0.76
2:H:321:ARG:CA	2:H:351:GLU:HA	2.14	0.76
2:G:350:PRO:HG3	2:G:380:PRO:HG3	1.68	0.76
2:I:181:ARG:CG	2:I:187:VAL:HG11	2.15	0.76
1:E:1391:MET:HE2	1:E:1458:VAL:CG2	2.03	0.76
1:E:213:THR:HB	1:E:1008:THR:HG23	1.66	0.76
1:B:375:ASP:OD2	1:B:377:THR:HB	1.86	0.76
1:E:447:LEU:HD13	1:E:670:LEU:HD21	1.65	0.75
1:A:901:ASP:OD1	1:C:1228:LYS:HB3	1.85	0.75
2:J:302:MET:CE	2:J:333:GLU:HG3	2.16	0.75
2:J:299:ASP:HA	2:J:333:GLU:OE2	1.86	0.75
1:E:1374:VAL:O	1:E:1375:ILE:CG1	2.34	0.75
2:G:146:LEU:O	2:G:171:TYR:HA	1.86	0.75
1:D:1445:ASN:HB2	2:I:373:ASP:OD2	1.86	0.75
2:G:302:MET:CE	2:G:333:GLU:HG3	2.16	0.75
1:F:710:LYS:CG	1:F:939:GLY:HA3	2.10	0.75
2:L:181:ARG:CG	2:L:187:VAL:HG11	2.15	0.75
2:J:418:THR:HA	2:J:424:LEU:HD21	1.67	0.75
2:K:358:VAL:HG22	2:K:365:VAL:CG1	2.16	0.75
2:J:316:VAL:HB	2:J:342:VAL:HG22	1.68	0.75
1:C:413:LEU:O	1:C:414:LYS:HD2	1.85	0.75
1:E:536:ASP:OD1	1:E:538:THR:HG22	1.85	0.75
1:D:1102:CYS:HG	6:D:2476:F3S:FE1	1.01	0.75
1:C:452:GLN:CG	1:C:765:ALA:HB2	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1356:VAL:HG22	1:C:1374:VAL:HG21	1.67	0.75
1:C:1374:VAL:O	1:C:1375:ILE:CG1	2.34	0.75
1:C:1395:TYR:CE1	1:C:1397:LEU:HD21	2.20	0.75
1:B:153:ARG:NH2	1:B:263:LEU:O	2.18	0.75
1:A:515:ARG:CD	1:A:1367:TYR:HE1	1.96	0.75
2:H:319:LEU:CA	2:H:345:ILE:HD11	2.15	0.75
2:H:295:LEU:HD22	2:H:319:LEU:HB3	1.69	0.75
2:J:44:ALA:CA	2:J:69:LEU:HD11	2.17	0.75
1:B:522:LEU:HD21	1:B:705:LEU:HD21	1.68	0.75
2:J:110:ILE:CG1	2:J:117:ALA:HA	2.16	0.75
1:E:443:ASP:O	1:E:445:ALA:N	2.20	0.75
1:C:782:ARG:NE	2:K:53:PRO:HD3	2.00	0.75
2:L:291:HIS:NE2	2:L:293:VAL:HG23	2.02	0.75
2:L:302:MET:CE	2:L:333:GLU:HG3	2.16	0.75
1:C:875:MET:HE1	1:C:1139:PHE:CD2	2.20	0.75
2:I:319:LEU:CA	2:I:345:ILE:HD11	2.15	0.75
1:A:236:THR:CG2	1:A:328:ASP:N	2.45	0.75
1:C:526:LEU:CD1	1:C:526:LEU:N	2.40	0.75
1:E:643:ASN:HB3	1:E:665:THR:HG22	1.68	0.75
1:A:536:ASP:OD1	1:A:538:THR:HG22	1.85	0.75
1:C:1413:GLN:HG3	1:C:1414:ARG:O	1.87	0.75
1:F:820:ARG:HB3	1:F:821:PRO:CD	2.16	0.75
1:F:551:THR:OG1	1:F:554:GLU:HG2	1.85	0.75
1:F:826:ARG:HG2	1:F:826:ARG:NH1	1.99	0.75
2:G:152:VAL:CG1	2:G:175:VAL:HA	2.12	0.75
2:G:225:SER:CB	2:G:227:PRO:HD2	2.14	0.75
2:K:225:SER:CB	2:K:227:PRO:HD2	2.14	0.75
2:K:430:LYS:HD2	2:K:456:ASP:O	1.85	0.75
2:I:44:ALA:CA	2:I:69:LEU:HD11	2.17	0.75
2:J:132:TRP:CD1	2:J:202:ARG:HB2	2.21	0.75
2:G:299:ASP:HA	2:G:333:GLU:OE2	1.86	0.75
2:L:146:LEU:O	2:L:171:TYR:HA	1.86	0.75
2:H:44:ALA:CA	2:H:69:LEU:HD11	2.17	0.75
2:H:418:THR:HA	2:H:424:LEU:HD21	1.67	0.75
1:E:826:ARG:NH1	1:E:1046:GLU:OE2	2.19	0.75
2:J:358:VAL:HG22	2:J:365:VAL:CG1	2.16	0.75
1:C:826:ARG:NH1	1:C:1046:GLU:OE2	2.19	0.75
1:C:1317:THR:HG22	1:C:1318:ASN:N	2.00	0.75
2:I:100:GLN:HB3	2:I:105:GLU:CG	2.17	0.75
1:A:643:ASN:HB3	1:A:665:THR:CG2	2.16	0.75
1:D:375:ASP:OD2	1:D:377:THR:HB	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:175:ARG:HG3	1:D:175:ARG:HH11	1.52	0.75
1:C:443:ASP:O	1:C:445:ALA:N	2.20	0.75
1:A:1394:VAL:HG12	1:A:1394:VAL:O	1.87	0.75
2:I:110:ILE:CG1	2:I:117:ALA:HA	2.16	0.75
2:K:295:LEU:HD22	2:K:319:LEU:HB3	1.69	0.75
1:C:260:MET:O	1:C:263:LEU:N	2.19	0.75
1:F:452:GLN:CG	1:F:765:ALA:HB2	2.17	0.75
1:F:1445:ASN:HB2	2:G:373:ASP:OD2	1.86	0.75
1:D:704:LEU:O	1:D:705:LEU:C	2.25	0.75
1:B:236:THR:HG21	1:B:328:ASP:N	2.00	0.75
1:D:529:LEU:N	1:D:529:LEU:HD23	1.92	0.75
1:C:643:ASN:HB3	1:C:665:THR:HG22	1.68	0.75
1:A:999:LYS:HG3	1:A:1022:LEU:CD2	2.17	0.75
2:L:295:LEU:HD22	2:L:319:LEU:HB3	1.69	0.75
2:L:350:PRO:HD2	2:L:374:ALA:N	2.00	0.75
1:E:375:ASP:OD2	1:E:377:THR:CB	2.26	0.75
1:D:452:GLN:CG	1:D:765:ALA:HB2	2.17	0.75
2:G:201:GLU:O	2:G:205:LYS:HD3	1.87	0.75
2:K:201:GLU:O	2:K:205:LYS:HD3	1.87	0.75
2:K:306:ARG:HD3	2:K:336:HIS:HB3	1.69	0.75
2:K:44:ALA:CA	2:K:69:LEU:HD11	2.17	0.75
2:G:295:LEU:HD22	2:G:319:LEU:HB3	1.69	0.75
2:G:388:PHE:HD2	2:G:390:VAL:HG13	1.52	0.75
2:L:132:TRP:CD1	2:L:202:ARG:HB2	2.21	0.75
2:L:44:ALA:CA	2:L:69:LEU:HD11	2.17	0.75
1:A:1317:THR:HG22	1:A:1318:ASN:N	2.00	0.75
2:J:100:GLN:HB3	2:J:105:GLU:CG	2.17	0.75
1:C:450:ARG:O	1:C:453:ALA:N	2.19	0.75
1:C:780:ARG:HB3	2:K:51:GLY:C	2.07	0.75
1:A:1220:ARG:HG3	1:A:1224:GLU:HG3	1.67	0.75
1:A:260:MET:O	1:A:263:LEU:N	2.19	0.75
2:K:291:HIS:NE2	2:K:293:VAL:HG23	2.02	0.75
1:E:515:ARG:HD2	1:E:1367:TYR:HE1	1.46	0.75
2:K:132:TRP:CD1	2:K:202:ARG:HB2	2.21	0.75
1:C:139:VAL:HG11	1:C:143:GLN:CB	2.17	0.75
2:G:317:LYS:HG3	2:G:345:ILE:HD12	1.68	0.75
1:B:704:LEU:O	1:B:705:LEU:C	2.25	0.75
1:F:438:GLU:OE1	1:F:672:GLN:NE2	2.20	0.75
1:F:317:ILE:HG22	1:F:321:ASN:HD21	1.52	0.75
1:E:862:ALA:O	1:E:1118:CYS:CB	2.35	0.75
1:E:413:LEU:O	1:E:414:LYS:HD2	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:595:ASP:O	1:A:596:ALA:C	2.20	0.75
1:A:1413:GLN:HG3	1:A:1414:ARG:O	1.87	0.75
1:B:1084:MET:SD	1:B:1168:LEU:HD21	2.25	0.75
2:G:80:ALA:CB	2:G:127:ILE:HG12	2.17	0.75
1:C:60:LYS:O	1:C:63:GLY:N	2.19	0.75
2:G:291:HIS:NE2	2:G:293:VAL:HG23	2.02	0.75
1:A:139:VAL:HG11	1:A:143:GLN:CB	2.17	0.75
1:A:780:ARG:HB3	2:J:51:GLY:C	2.07	0.75
2:J:350:PRO:HG3	2:J:380:PRO:HG3	1.68	0.75
1:C:513:SER:CB	1:C:520:MET:CE	2.64	0.75
1:E:1394:VAL:O	1:E:1394:VAL:HG12	1.87	0.75
2:G:44:ALA:CA	2:G:69:LEU:HD11	2.17	0.75
2:J:451:VAL:HA	2:J:454:ILE:CG2	2.17	0.75
2:H:306:ARG:HD3	2:H:336:HIS:HB3	1.69	0.75
1:B:139:VAL:CG1	1:B:143:GLN:CB	2.65	0.75
2:L:418:THR:HA	2:L:424:LEU:HD21	1.67	0.75
1:D:426:LEU:CD1	1:D:558:MET:HG3	2.16	0.75
1:B:175:ARG:HH11	1:B:175:ARG:HG3	1.52	0.75
1:E:450:ARG:O	1:E:453:ALA:N	2.19	0.74
1:F:182:MET:HE3	1:F:217:PRO:C	2.07	0.74
2:J:317:LYS:HG3	2:J:345:ILE:HD12	1.68	0.74
2:K:317:LYS:HE3	2:K:345:ILE:CG2	2.15	0.74
1:D:1084:MET:SD	1:D:1168:LEU:CD2	2.75	0.74
2:I:299:ASP:HA	2:I:333:GLU:OE2	1.86	0.74
2:I:80:ALA:CB	2:I:127:ILE:HG12	2.17	0.74
2:G:367:ILE:HD13	2:G:368:HIS:N	2.02	0.74
2:G:358:VAL:HG22	2:G:365:VAL:CG1	2.16	0.74
1:E:999:LYS:HG3	1:E:1022:LEU:CD2	2.17	0.74
1:F:375:ASP:OD2	1:F:377:THR:HB	1.86	0.74
1:A:536:ASP:C	1:A:536:ASP:OD1	2.25	0.74
1:B:59:VAL:CG2	1:B:105:TYR:CD2	2.70	0.74
1:A:900:GLY:HA2	1:C:1226:GLY:O	1.87	0.74
1:F:787:ARG:HH12	1:F:821:PRO:CG	2.00	0.74
1:E:1394:VAL:HG11	1:E:1401:LEU:CD2	2.17	0.74
1:F:746:ILE:C	1:F:747:SER:O	2.16	0.74
2:I:295:LEU:HD22	2:I:319:LEU:HB3	1.69	0.74
2:I:132:TRP:CD1	2:I:202:ARG:HB2	2.21	0.74
2:I:423:LEU:CD2	2:I:443:ILE:HD13	2.11	0.74
2:I:451:VAL:HA	2:I:454:ILE:CG2	2.17	0.74
2:G:350:PRO:HD2	2:G:374:ALA:N	2.00	0.74
2:L:80:ALA:CB	2:L:127:ILE:HG12	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:451:VAL:HA	2:H:454:ILE:CG2	2.17	0.74
1:F:139:VAL:CG1	1:F:143:GLN:CB	2.65	0.74
1:D:522:LEU:HD21	1:D:705:LEU:HD21	1.68	0.74
1:A:826:ARG:NH1	1:A:1046:GLU:OE2	2.19	0.74
2:L:100:GLN:HB3	2:L:105:GLU:CG	2.17	0.74
1:E:950:THR:CG2	1:E:951:GLU:H	1.98	0.74
1:E:528:ASN:CB	1:E:542:LEU:HD22	2.17	0.74
1:A:298:LEU:HD23	1:A:324:MET:HG2	1.68	0.74
1:E:727:ALA:HB3	1:E:744:SER:HB2	1.69	0.74
1:E:824:GLN:HE21	1:E:824:GLN:CA	1.99	0.74
1:A:902:ASN:HB2	1:C:1227:GLU:HG3	1.59	0.74
1:B:731:SER:HA	1:B:747:SER:CA	2.17	0.74
2:L:367:ILE:HD13	2:L:368:HIS:N	2.02	0.74
1:C:1394:VAL:HG12	1:C:1394:VAL:O	1.87	0.74
1:B:1289:MET:HB2	1:B:1289:MET:CE	2.17	0.74
2:G:92:GLU:HG2	2:G:128:ASN:ND2	2.03	0.74
2:I:291:HIS:NE2	2:I:293:VAL:HG23	2.02	0.74
2:I:469:LYS:HD2	2:I:476:VAL:HB	1.69	0.74
2:L:92:GLU:HG2	2:L:128:ASN:ND2	2.03	0.74
2:H:146:LEU:O	2:H:171:TYR:HA	1.86	0.74
2:I:418:THR:HA	2:I:424:LEU:HD21	1.67	0.74
1:F:405:GLU:CD	1:F:405:GLU:H	1.90	0.74
1:C:862:ALA:O	1:C:1118:CYS:CB	2.35	0.74
1:F:838:VAL:HG12	1:F:839:PRO:N	2.02	0.74
1:A:536:ASP:O	1:A:536:ASP:OD1	2.05	0.74
1:E:207:TYR:CD1	1:E:207:TYR:N	2.54	0.74
1:A:824:GLN:HA	1:A:824:GLN:NE2	2.01	0.74
1:E:728:ILE:HD12	1:E:1047:MET:CE	2.17	0.74
1:A:1131:THR:HB	1:A:1134:LYS:HG3	1.68	0.74
1:C:1131:THR:HG22	1:C:1133:GLU:N	2.02	0.74
1:A:877:ARG:CG	1:C:1230:GLN:N	2.51	0.74
1:A:900:GLY:HA3	1:C:1263:HIS:CD2	2.20	0.74
1:C:877:ARG:CG	1:E:1230:GLN:N	2.50	0.74
1:C:1425:LYS:HD3	1:C:1447:TRP:NE1	2.03	0.74
2:J:295:LEU:HD22	2:J:319:LEU:HB3	1.69	0.74
1:D:1289:MET:CE	1:D:1289:MET:HB2	2.17	0.74
2:K:317:LYS:HG3	2:K:345:ILE:HD12	1.68	0.74
1:D:731:SER:HA	1:D:747:SER:CA	2.17	0.74
2:K:182:MET:CE	2:K:216:PRO:HG3	2.17	0.74
1:A:734:LEU:HD11	1:A:738:HIS:HD2	1.46	0.74
2:K:80:ALA:CB	2:K:127:ILE:HG12	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:182:MET:CE	2:G:216:PRO:HG3	2.17	0.74
2:J:306:ARG:HD3	2:J:336:HIS:HB3	1.69	0.74
2:L:316:VAL:HB	2:L:342:VAL:HG22	1.68	0.74
1:C:999:LYS:HG3	1:C:1022:LEU:CD2	2.17	0.74
1:C:207:TYR:CD1	1:C:207:TYR:N	2.54	0.74
1:F:536:ASP:C	1:F:536:ASP:OD1	2.25	0.74
1:A:1263:HIS:CD2	1:E:900:GLY:HA3	2.20	0.74
1:A:1394:VAL:HG11	1:A:1401:LEU:CD2	2.17	0.74
2:G:451:VAL:HA	2:G:454:ILE:CG2	2.17	0.74
1:C:515:ARG:HD2	1:C:1367:TYR:CZ	2.22	0.74
1:E:731:SER:CA	1:E:748:GLY:H	2.01	0.74
2:K:186:LEU:HD21	2:K:200:VAL:HB	1.69	0.74
1:B:317:ILE:HG22	1:B:321:ASN:HD21	1.52	0.74
1:C:536:ASP:OD1	1:C:536:ASP:O	2.05	0.74
1:F:584:ASP:N	1:F:584:ASP:OD1	2.14	0.74
1:E:824:GLN:NE2	1:E:824:GLN:HA	2.01	0.74
1:C:829:LEU:HD13	1:C:1168:LEU:HD13	1.67	0.74
1:B:658:LEU:HD23	1:B:666:VAL:HG21	1.67	0.74
2:J:367:ILE:HD13	2:J:368:HIS:N	2.02	0.74
1:A:513:SER:CB	1:A:520:MET:CE	2.64	0.74
2:K:367:ILE:HD13	2:K:368:HIS:N	2.02	0.74
2:K:388:PHE:HD2	2:K:390:VAL:HG13	1.52	0.74
2:K:244:LYS:HD2	2:K:404:GLU:CB	2.13	0.74
1:C:731:SER:CA	1:C:748:GLY:H	2.01	0.74
1:A:731:SER:CA	1:A:748:GLY:H	2.01	0.74
2:K:430:LYS:HE2	2:K:456:ASP:HB3	1.69	0.74
2:H:291:HIS:NE2	2:H:293:VAL:HG23	2.02	0.74
2:H:317:LYS:HG3	2:H:345:ILE:HD12	1.68	0.74
2:H:367:ILE:HD13	2:H:368:HIS:N	2.02	0.74
2:H:201:GLU:O	2:H:205:LYS:HD3	1.87	0.74
2:H:430:LYS:HE2	2:H:456:ASP:HB3	1.69	0.74
2:I:358:VAL:HG22	2:I:365:VAL:CG1	2.16	0.74
1:A:295:LYS:CE	1:A:299:VAL:HG12	2.18	0.74
1:D:438:GLU:OE1	1:D:672:GLN:NE2	2.20	0.74
2:H:197:LYS:CE	2:H:275:ASP:H	2.01	0.74
1:E:1460:LYS:O	1:E:1462:MET:N	2.21	0.74
1:C:900:GLY:HA2	1:E:1226:GLY:O	1.87	0.74
1:F:783:LYS:HE2	2:I:57:VAL:CG1	2.17	0.74
1:D:787:ARG:HH12	1:D:821:PRO:CG	2.00	0.74
1:B:787:ARG:HH12	1:B:821:PRO:CG	2.00	0.74
1:A:290:THR:CG2	1:A:291:ALA:N	2.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:144:ARG:HD3	2:G:465:HIS:CE1	2.23	0.74
2:K:454:ILE:O	2:K:454:ILE:HD13	1.88	0.74
2:K:92:GLU:HG2	2:K:128:ASN:ND2	2.03	0.74
2:H:299:ASP:HA	2:H:333:GLU:OE2	1.86	0.74
2:I:92:GLU:HG2	2:I:128:ASN:ND2	2.03	0.74
2:L:469:LYS:HD2	2:L:476:VAL:HB	1.69	0.74
1:D:139:VAL:CG1	1:D:143:GLN:CB	2.65	0.74
2:L:358:VAL:HG22	2:L:365:VAL:CG1	2.16	0.74
1:D:753:GLY:O	1:D:754:ILE:C	2.25	0.74
1:E:1131:THR:HB	1:E:1134:LYS:HG3	1.68	0.74
1:D:59:VAL:CG2	1:D:105:TYR:CD2	2.70	0.74
1:F:59:VAL:CG2	1:F:105:TYR:CD2	2.70	0.74
1:A:1230:GLN:N	1:E:877:ARG:CG	2.51	0.74
2:L:388:PHE:HD2	2:L:390:VAL:HG13	1.52	0.74
1:F:746:ILE:HG22	1:F:747:SER:O	1.88	0.74
1:B:452:GLN:CG	1:B:765:ALA:HB2	2.17	0.74
2:G:306:ARG:HD3	2:G:336:HIS:HB3	1.69	0.74
2:K:262:LEU:HB2	2:K:401:PHE:HE2	1.53	0.74
2:J:257:ASN:CG	2:J:394:LEU:HA	2.08	0.74
2:I:317:LYS:HG3	2:I:345:ILE:HD12	1.68	0.74
2:I:367:ILE:HD13	2:I:368:HIS:N	2.02	0.74
1:A:515:ARG:HD2	1:A:1367:TYR:CZ	2.22	0.74
2:K:469:LYS:HD2	2:K:476:VAL:HB	1.69	0.74
2:J:80:ALA:CB	2:J:127:ILE:HG12	2.17	0.74
2:L:145:GLU:OE1	2:L:469:LYS:HA	1.88	0.74
2:H:132:TRP:HD1	2:H:202:ARG:HD2	1.53	0.74
1:F:602:THR:C	1:F:640:THR:CG2	2.56	0.74
1:B:959:SER:HA	1:B:1369:THR:HG23	1.69	0.74
2:I:316:VAL:HB	2:I:342:VAL:HG22	1.68	0.74
1:D:317:ILE:HG22	1:D:321:ASN:HD21	1.52	0.74
2:K:197:LYS:CE	2:K:275:ASP:H	2.01	0.74
1:A:728:ILE:HD12	1:A:1047:MET:CE	2.17	0.74
1:C:528:ASN:CB	1:C:542:LEU:HD22	2.18	0.74
1:C:728:ILE:HD12	1:C:1047:MET:CE	2.17	0.74
1:B:1084:MET:SD	1:B:1168:LEU:CD2	2.75	0.74
1:E:1131:THR:HG22	1:E:1133:GLU:N	2.02	0.74
1:C:727:ALA:HB3	1:C:744:SER:HB2	1.69	0.74
1:F:146:LEU:HD12	1:F:146:LEU:O	1.88	0.74
1:E:1413:GLN:HG3	1:E:1414:ARG:O	1.87	0.74
1:A:443:ASP:O	1:A:445:ALA:N	2.20	0.74
1:F:1289:MET:CE	1:F:1289:MET:HB2	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:780:ARG:HH21	1:B:1105:VAL:HG23	1.53	0.74
1:F:1131:THR:HG22	1:F:1133:GLU:N	2.03	0.74
1:D:746:ILE:HG22	1:D:747:SER:O	1.88	0.74
1:F:450:ARG:O	1:F:453:ALA:N	2.20	0.74
2:G:164:GLU:HB2	2:G:207:LEU:HD22	1.70	0.74
2:K:257:ASN:CG	2:K:394:LEU:HA	2.08	0.74
2:I:144:ARG:HD3	2:I:465:HIS:CE1	2.23	0.74
2:J:145:GLU:OE1	2:J:469:LYS:HA	1.88	0.74
2:J:71:LEU:HD11	2:J:76:ARG:O	1.88	0.74
2:H:145:GLU:OE1	2:H:469:LYS:HA	1.88	0.74
2:J:100:GLN:HE21	2:J:100:GLN:HA	1.53	0.74
1:E:536:ASP:OD1	1:E:536:ASP:O	2.05	0.74
1:D:146:LEU:HD12	1:D:146:LEU:O	1.88	0.74
1:C:465:LEU:HD12	1:C:465:LEU:C	2.08	0.74
1:E:177:ILE:HD13	1:E:179:TYR:HE1	1.49	0.74
1:F:731:SER:HA	1:F:747:SER:CA	2.17	0.74
2:G:201:GLU:HG3	2:G:205:LYS:CE	2.18	0.74
2:G:430:LYS:HE2	2:G:456:ASP:HB3	1.69	0.74
2:K:144:ARG:HD3	2:K:465:HIS:CE1	2.23	0.74
2:I:186:LEU:HD21	2:I:200:VAL:HB	1.69	0.74
2:I:71:LEU:HD11	2:I:76:ARG:O	1.88	0.74
1:B:602:THR:C	1:B:640:THR:CG2	2.56	0.74
2:I:100:GLN:HE21	2:I:100:GLN:HA	1.53	0.74
1:C:1131:THR:HB	1:C:1134:LYS:HG3	1.68	0.74
1:E:465:LEU:HD12	1:E:465:LEU:C	2.08	0.74
1:C:781:PHE:CD2	2:K:57:VAL:HG21	2.23	0.73
1:A:1425:LYS:HD3	1:A:1447:TRP:NE1	2.03	0.73
2:L:317:LYS:HG3	2:L:345:ILE:HD12	1.68	0.73
1:D:820:ARG:CB	1:D:821:PRO:CD	2.66	0.73
1:F:1084:MET:SD	1:F:1168:LEU:CD2	2.75	0.73
2:J:186:LEU:HD21	2:J:200:VAL:HB	1.69	0.73
2:J:469:LYS:HD2	2:J:476:VAL:HB	1.69	0.73
2:H:454:ILE:O	2:H:454:ILE:HD13	1.88	0.73
2:K:418:THR:HA	2:K:424:LEU:HD21	1.67	0.73
1:B:1076:GLY:HA3	1:B:1145:GLU:CG	2.17	0.73
2:H:366:ARG:HE	2:H:391:GLN:CG	2.01	0.73
2:H:100:GLN:HB3	2:H:105:GLU:CG	2.17	0.73
1:A:643:ASN:HB3	1:A:665:THR:HG22	1.68	0.73
1:E:643:ASN:HD22	1:E:665:THR:CB	2.01	0.73
2:G:197:LYS:CE	2:G:275:ASP:H	2.01	0.73
2:J:197:LYS:CE	2:J:275:ASP:H	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:536:ASP:OD1	1:E:536:ASP:C	2.25	0.73
1:C:824:GLN:NE2	1:C:824:GLN:HA	2.01	0.73
1:F:214:ASN:O	1:F:1015:LYS:HE2	1.88	0.73
2:I:277:VAL:HG12	2:I:279:ALA:N	2.03	0.73
1:B:536:ASP:OD1	1:B:536:ASP:C	2.25	0.73
2:L:277:VAL:HG12	2:L:279:ALA:N	2.03	0.73
1:F:875:MET:HE1	1:F:1139:PHE:CE2	2.22	0.73
2:G:454:ILE:O	2:G:454:ILE:HD13	1.88	0.73
2:K:451:VAL:HA	2:K:454:ILE:CG2	2.17	0.73
2:I:145:GLU:OE1	2:I:469:LYS:HA	1.88	0.73
2:J:164:GLU:HB2	2:J:207:LEU:HD22	1.70	0.73
2:J:454:ILE:HD13	2:J:454:ILE:O	1.88	0.73
2:I:257:ASN:CG	2:I:394:LEU:HA	2.08	0.73
2:L:144:ARG:HD3	2:L:465:HIS:CE1	2.23	0.73
2:L:201:GLU:O	2:L:205:LYS:HD3	1.87	0.73
1:F:522:LEU:HD21	1:F:705:LEU:HD21	1.68	0.73
2:H:165:GLU:HB3	2:H:169:LYS:NZ	2.03	0.73
1:D:959:SER:HA	1:D:1369:THR:HG23	1.69	0.73
1:A:643:ASN:HD22	1:A:665:THR:CB	2.01	0.73
1:A:189:THR:HG22	1:A:190:THR:N	2.04	0.73
1:D:511:ILE:HG22	1:D:512:ASP:N	2.03	0.73
1:C:355:TYR:C	1:C:355:TYR:CD1	2.61	0.73
2:J:319:LEU:HA	2:J:345:ILE:HD11	1.70	0.73
1:F:780:ARG:NH2	1:F:1105:VAL:HG23	2.04	0.73
2:I:109:VAL:HG22	7:I:483:SF4:S2	2.28	0.73
1:E:1401:LEU:HD11	1:E:1405:ILE:HB	1.71	0.73
1:C:227:MET:HE2	1:C:282:GLU:HG2	1.68	0.73
1:F:465:LEU:HD12	1:F:465:LEU:O	1.89	0.73
1:E:515:ARG:HD2	1:E:1367:TYR:CZ	2.22	0.73
2:G:257:ASN:CG	2:G:394:LEU:HA	2.08	0.73
2:L:451:VAL:HA	2:L:454:ILE:CG2	2.17	0.73
2:H:469:LYS:HD2	2:H:476:VAL:HB	1.69	0.73
1:D:405:GLU:H	1:D:405:GLU:CD	1.90	0.73
1:C:643:ASN:HD22	1:C:665:THR:CB	2.01	0.73
1:D:838:VAL:HG12	1:D:839:PRO:N	2.02	0.73
1:C:342:VAL:HG13	1:C:392:ALA:HB2	1.69	0.73
1:A:528:ASN:CB	1:A:542:LEU:HD22	2.18	0.73
2:J:277:VAL:HG12	2:J:279:ALA:N	2.03	0.73
2:L:109:VAL:HG22	7:L:483:SF4:S2	2.29	0.73
1:B:1131:THR:HG22	1:B:1133:GLU:N	2.03	0.73
1:A:1401:LEU:HD11	1:A:1405:ILE:HB	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:783:LYS:CE	2:I:57:VAL:CG1	2.36	0.73
2:G:109:VAL:HG22	7:G:483:SF4:S2	2.29	0.73
2:K:378:GLN:O	2:K:380:PRO:HD3	1.89	0.73
2:G:145:GLU:OE1	2:G:469:LYS:HA	1.88	0.73
2:K:132:TRP:HD1	2:K:202:ARG:HD2	1.53	0.73
2:K:201:GLU:HG3	2:K:205:LYS:CE	2.18	0.73
2:H:378:GLN:O	2:H:380:PRO:HD3	1.89	0.73
2:J:132:TRP:HD1	2:J:202:ARG:HD2	1.53	0.73
2:I:264:TYR:OH	2:I:308:ALA:HA	1.89	0.73
2:L:430:LYS:HE2	2:L:456:ASP:HB3	1.69	0.73
2:I:366:ARG:HE	2:I:391:GLN:CG	2.01	0.73
1:D:602:THR:C	1:D:640:THR:CG2	2.56	0.73
1:E:464:ILE:CD1	1:E:779:TYR:CE1	2.71	0.73
1:B:829:LEU:HD13	1:B:1168:LEU:HD13	1.70	0.73
1:E:985:TYR:HE1	1:E:1207:VAL:HG13	1.53	0.73
1:C:985:TYR:HE1	1:C:1207:VAL:HG13	1.53	0.73
1:A:850:ARG:HH11	1:A:850:ARG:HG3	1.53	0.73
1:D:214:ASN:O	1:D:1015:LYS:HE2	1.88	0.73
1:A:1263:HIS:NE2	1:E:900:GLY:HA2	1.91	0.73
1:C:902:ASN:HB2	1:E:1227:GLU:HG3	1.59	0.73
1:F:1113:CYS:O	1:F:1115:VAL:N	2.22	0.73
1:F:820:ARG:CB	1:F:821:PRO:CD	2.67	0.73
1:D:782:ARG:HD3	2:H:53:PRO:CD	2.10	0.73
1:D:783:LYS:CA	2:H:57:VAL:HG23	1.96	0.73
2:K:165:GLU:HB3	2:K:169:LYS:NZ	2.03	0.73
2:H:322:ARG:HD2	2:H:349:ALA:HB1	1.71	0.73
2:G:262:LEU:HB2	2:G:401:PHE:HE2	1.53	0.73
2:H:244:LYS:HD2	2:H:404:GLU:CB	2.13	0.73
2:I:416:LYS:HE3	2:I:433:ASN:ND2	2.04	0.73
2:J:416:LYS:HE3	2:J:433:ASN:ND2	2.04	0.73
2:L:186:LEU:HD21	2:L:200:VAL:HB	1.69	0.73
2:H:71:LEU:HD11	2:H:76:ARG:O	1.88	0.73
2:H:92:GLU:HG2	2:H:128:ASN:ND2	2.03	0.73
2:I:182:MET:CE	2:I:216:PRO:HG3	2.17	0.73
1:C:295:LYS:CE	1:C:299:VAL:HG12	2.18	0.73
1:D:1131:THR:HG22	1:D:1133:GLU:N	2.03	0.73
2:L:100:GLN:HA	2:L:100:GLN:HE21	1.53	0.73
1:F:959:SER:HA	1:F:1369:THR:HG23	1.69	0.73
1:D:1369:THR:O	1:D:1369:THR:HG22	1.89	0.73
1:B:438:GLU:OE1	1:B:672:GLN:NE2	2.20	0.73
1:A:727:ALA:HB3	1:A:744:SER:HB2	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1460:LYS:O	1:C:1462:MET:N	2.21	0.73
2:J:291:HIS:NE2	2:J:293:VAL:HG23	2.02	0.73
2:J:388:PHE:HD2	2:J:390:VAL:HG13	1.52	0.73
2:H:109:VAL:HG22	7:H:483:SF4:S2	2.29	0.73
1:E:1447:TRP:CZ2	1:E:1451:VAL:HG22	2.24	0.73
1:C:505:GLN:HE21	1:C:1001:VAL:H	1.33	0.73
1:D:450:ARG:O	1:D:453:ALA:N	2.20	0.73
2:G:469:LYS:HD2	2:G:476:VAL:HB	1.69	0.73
2:G:91:PRO:HD2	2:G:203:ARG:NH2	2.04	0.73
2:I:319:LEU:HA	2:I:345:ILE:HD11	1.70	0.73
2:I:322:ARG:HD2	2:I:349:ALA:HB1	1.71	0.73
2:K:186:LEU:CD1	2:K:200:VAL:HB	2.19	0.73
2:I:201:GLU:O	2:I:205:LYS:HD3	1.87	0.73
2:I:306:ARG:HD3	2:I:336:HIS:HB3	1.69	0.73
2:J:165:GLU:HB3	2:J:169:LYS:NZ	2.03	0.73
2:I:257:ASN:ND2	2:I:364:ALA:HB3	2.04	0.73
2:L:164:GLU:HB2	2:L:207:LEU:HD22	1.70	0.73
2:H:92:GLU:HG2	2:H:128:ASN:OD1	1.89	0.73
2:L:383:ILE:HD13	2:L:385:GLY:H	1.54	0.73
1:B:405:GLU:H	1:B:405:GLU:CD	1.90	0.73
1:D:665:THR:O	1:D:665:THR:HG22	1.89	0.73
1:F:780:ARG:HH21	1:F:1105:VAL:HG23	1.53	0.73
1:C:290:THR:CG2	1:C:291:ALA:N	2.51	0.73
1:F:731:SER:HA	1:F:748:GLY:N	2.04	0.73
2:G:186:LEU:CD1	2:G:200:VAL:HB	2.19	0.73
2:H:182:MET:CE	2:H:216:PRO:HG3	2.17	0.73
2:H:262:LEU:HB2	2:H:401:PHE:HE2	1.53	0.73
2:I:91:PRO:HD2	2:I:203:ARG:NH2	2.04	0.73
2:L:257:ASN:ND2	2:L:364:ALA:HB3	2.04	0.73
2:L:264:TYR:OH	2:L:308:ALA:HA	1.89	0.73
2:H:144:ARG:HD3	2:H:465:HIS:CE1	2.23	0.73
2:G:366:ARG:HE	2:G:391:GLN:CG	2.01	0.73
1:F:1076:GLY:CA	1:F:1145:GLU:HG2	2.18	0.73
2:H:100:GLN:HA	2:H:100:GLN:HE21	1.53	0.73
2:G:100:GLN:HB3	2:G:105:GLU:CG	2.17	0.73
2:K:100:GLN:HB3	2:K:105:GLU:CG	2.17	0.73
1:A:464:ILE:CD1	1:A:779:TYR:CE1	2.71	0.73
1:A:862:ALA:O	1:A:1118:CYS:CB	2.35	0.73
1:F:52:GLN:NE2	1:F:71:LEU:H	1.87	0.73
1:C:850:ARG:HH11	1:C:850:ARG:HG3	1.53	0.73
1:F:1417:VAL:HG12	1:F:1419:HIS:H	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:TYR:CD1	1:A:355:TYR:C	2.61	0.73
1:E:780:ARG:HB3	2:L:51:GLY:C	2.07	0.73
1:C:1394:VAL:HG11	1:C:1401:LEU:CD2	2.17	0.73
1:B:450:ARG:O	1:B:453:ALA:N	2.20	0.73
1:A:60:LYS:O	1:A:63:GLY:N	2.19	0.73
2:J:264:TYR:OH	2:J:308:ALA:HA	1.89	0.73
2:I:388:PHE:HD2	2:I:390:VAL:HG13	1.52	0.73
2:I:207:LEU:HG	2:I:212:VAL:HG11	1.70	0.73
2:I:430:LYS:HE2	2:I:456:ASP:HB3	1.69	0.73
2:J:92:GLU:HG2	2:J:128:ASN:ND2	2.03	0.73
2:I:307:THR:O	2:I:310:ARG:HB2	1.88	0.73
1:D:295:LYS:HD2	1:D:390:MET:CE	2.19	0.73
1:D:52:GLN:NE2	1:D:71:LEU:H	1.87	0.73
1:A:1131:THR:HG22	1:A:1133:GLU:N	2.02	0.73
1:D:1417:VAL:HG12	1:D:1419:HIS:H	1.54	0.73
1:F:493:ARG:NH2	1:F:786:ASP:OD1	2.21	0.73
2:K:277:VAL:HG12	2:K:279:ALA:N	2.03	0.73
1:B:214:ASN:O	1:B:1015:LYS:HE2	1.88	0.73
1:A:609:GLU:OE2	1:A:645:ARG:HD3	1.88	0.73
2:J:109:VAL:HG22	7:J:483:SF4:S2	2.29	0.73
1:A:1226:GLY:O	1:E:900:GLY:HA2	1.87	0.73
1:D:780:ARG:HH21	1:D:1105:VAL:HG23	1.53	0.73
1:D:829:LEU:HD13	1:D:1168:LEU:HD13	1.70	0.73
2:K:307:THR:O	2:K:310:ARG:HB2	1.88	0.73
2:I:164:GLU:HB2	2:I:207:LEU:HD22	1.70	0.73
2:I:454:ILE:HD13	2:I:454:ILE:O	1.88	0.73
2:J:201:GLU:O	2:J:205:LYS:HD3	1.87	0.73
2:J:371:VAL:HG21	2:J:386:SER:HB3	1.71	0.73
2:G:320:TYR:HB2	2:G:346:TRP:CD1	2.24	0.73
2:G:307:THR:O	2:G:310:ARG:HB2	1.88	0.73
1:F:417:ASP:C	1:F:419:TRP:N	2.38	0.73
1:E:295:LYS:CE	1:E:299:VAL:HG12	2.18	0.73
1:F:838:VAL:CG1	1:F:839:PRO:HD2	2.19	0.73
1:E:342:VAL:HG13	1:E:392:ALA:HB2	1.69	0.73
1:E:724:ASN:N	1:E:724:ASN:ND2	2.37	0.73
1:A:1460:LYS:O	1:A:1462:MET:N	2.21	0.73
1:F:175:ARG:HH11	1:F:175:ARG:HG3	1.52	0.73
2:G:277:VAL:HG12	2:G:279:ALA:N	2.03	0.73
1:C:609:GLU:OE2	1:C:645:ARG:HD3	1.88	0.73
1:A:782:ARG:HG3	2:J:52:VAL:HA	0.89	0.73
1:B:1113:CYS:O	1:B:1115:VAL:N	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1425:LYS:HD3	1:E:1447:TRP:NE1	2.03	0.73
2:J:307:THR:O	2:J:310:ARG:HB2	1.88	0.73
2:H:322:ARG:HG3	2:H:323:ASP:N	2.04	0.73
2:J:91:PRO:HD2	2:J:203:ARG:NH2	2.04	0.73
2:G:322:ARG:HG3	2:G:323:ASP:N	2.04	0.73
2:L:91:PRO:HD2	2:L:203:ARG:NH2	2.04	0.73
2:L:225:SER:O	2:L:229:LEU:HD12	1.89	0.73
2:L:306:ARG:HD3	2:L:336:HIS:HB3	1.69	0.73
1:E:139:VAL:HG11	1:E:143:GLN:CB	2.17	0.73
2:I:371:VAL:HG21	2:I:386:SER:HB3	1.71	0.73
2:K:371:VAL:HG21	2:K:386:SER:HB3	1.71	0.73
1:B:525:ARG:HG2	1:B:542:LEU:HD13	1.71	0.73
2:K:366:ARG:HE	2:K:391:GLN:CG	2.01	0.73
2:H:277:VAL:HG12	2:H:279:ALA:N	2.03	0.73
1:D:891:PRO:HA	1:D:894:PHE:CE2	2.24	0.73
2:K:109:VAL:HG22	7:K:483:SF4:S2	2.28	0.72
1:B:731:SER:HA	1:B:748:GLY:N	2.04	0.72
2:J:322:ARG:HG3	2:J:323:ASP:N	2.04	0.72
2:G:207:LEU:HG	2:G:212:VAL:HG11	1.70	0.72
2:J:257:ASN:ND2	2:J:364:ALA:HB3	2.04	0.72
2:J:201:GLU:HG3	2:J:205:LYS:CE	2.18	0.72
2:J:207:LEU:HG	2:J:212:VAL:HG11	1.70	0.72
2:L:201:GLU:HG3	2:L:205:LYS:CE	2.18	0.72
1:A:102:TYR:CD2	1:A:144:PHE:HE1	2.06	0.72
1:E:1062:ARG:O	1:E:1062:ARG:HG3	1.89	0.72
1:C:1317:THR:HG23	1:C:1358:GLU:OE1	1.88	0.72
1:A:342:VAL:HG13	1:A:392:ALA:HB2	1.69	0.72
1:D:536:ASP:C	1:D:536:ASP:OD1	2.25	0.72
1:D:1449:ARG:NH1	1:D:1449:ARG:CB	1.80	0.72
1:B:780:ARG:NH2	1:B:1105:VAL:HG23	2.03	0.72
1:B:783:LYS:HE2	2:G:57:VAL:CG1	2.17	0.72
2:K:320:TYR:HB2	2:K:346:TRP:CD1	2.24	0.72
2:H:264:TYR:OH	2:H:308:ALA:HA	1.89	0.72
2:H:307:THR:O	2:H:310:ARG:HB2	1.88	0.72
2:H:319:LEU:HA	2:H:345:ILE:HD11	1.70	0.72
2:G:257:ASN:ND2	2:G:364:ALA:HB3	2.04	0.72
2:L:186:LEU:CD1	2:L:200:VAL:HB	2.19	0.72
2:L:132:TRP:HD1	2:L:202:ARG:HD2	1.53	0.72
2:L:307:THR:O	2:L:310:ARG:HB2	1.88	0.72
2:H:186:LEU:HD21	2:H:200:VAL:HB	1.69	0.72
2:H:186:LEU:CD1	2:H:200:VAL:HB	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:201:GLU:HG3	2:H:205:LYS:CE	2.18	0.72
2:J:366:ARG:HE	2:J:391:GLN:CG	2.01	0.72
1:F:891:PRO:HA	1:F:894:PHE:CE2	2.24	0.72
1:E:781:PHE:CD2	2:L:57:VAL:HG21	2.23	0.72
1:B:1184:ASN:O	1:B:1187:LEU:N	2.22	0.72
1:E:290:THR:CG2	1:E:291:ALA:N	2.51	0.72
1:B:465:LEU:O	1:B:465:LEU:HD12	1.89	0.72
2:H:257:ASN:CG	2:H:394:LEU:HA	2.08	0.72
2:G:92:GLU:HG2	2:G:128:ASN:OD1	1.89	0.72
2:G:186:LEU:HD21	2:G:200:VAL:HB	1.69	0.72
2:I:327:MET:HB2	2:I:346:TRP:HH2	1.54	0.72
2:I:378:GLN:O	2:I:380:PRO:HD3	1.89	0.72
2:K:92:GLU:HG2	2:K:128:ASN:OD1	1.89	0.72
2:I:201:GLU:HG3	2:I:205:LYS:CE	2.18	0.72
2:J:144:ARG:HD3	2:J:465:HIS:CE1	2.23	0.72
2:J:152:VAL:CG1	2:J:175:VAL:HA	2.12	0.72
2:L:454:ILE:O	2:L:454:ILE:HD13	1.88	0.72
2:H:80:ALA:CB	2:H:127:ILE:HG12	2.17	0.72
2:I:383:ILE:HD13	2:I:385:GLY:H	1.54	0.72
1:B:295:LYS:NZ	1:B:299:VAL:O	2.17	0.72
1:C:536:ASP:C	1:C:536:ASP:OD1	2.25	0.72
1:A:465:LEU:HD12	1:A:465:LEU:C	2.08	0.72
1:E:573:PHE:HB2	1:E:574:PRO:HD2	1.71	0.72
2:L:320:TYR:HB2	2:L:346:TRP:CD1	2.24	0.72
1:A:1438:ARG:HB3	2:L:376:GLY:N	1.84	0.72
1:D:780:ARG:NH2	1:D:1105:VAL:HG23	2.04	0.72
2:K:319:LEU:HA	2:K:345:ILE:HD11	1.70	0.72
2:K:322:ARG:HD2	2:K:349:ALA:HB1	1.71	0.72
2:K:145:GLU:OE1	2:K:469:LYS:HA	1.88	0.72
2:H:320:TYR:HB2	2:H:346:TRP:CD1	2.24	0.72
2:J:430:LYS:HE2	2:J:456:ASP:HB3	1.69	0.72
2:H:371:VAL:HG21	2:H:386:SER:HB3	1.71	0.72
2:G:378:GLN:O	2:G:380:PRO:HD3	1.89	0.72
2:L:152:VAL:HG13	2:L:175:VAL:CA	2.15	0.72
2:L:416:LYS:HE3	2:L:433:ASN:ND2	2.04	0.72
1:D:1369:THR:C	1:D:1389:GLY:O	2.28	0.72
1:B:838:VAL:HG12	1:B:839:PRO:N	2.02	0.72
1:B:838:VAL:CG1	1:B:839:PRO:HD2	2.19	0.72
2:L:197:LYS:CE	2:L:275:ASP:H	2.01	0.72
1:E:976:SER:OG	1:E:978:GLU:HG3	1.90	0.72
1:F:665:THR:HG22	1:F:665:THR:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1221:PRO:HB2	1:E:1229:MET:CE	2.09	0.72
1:F:782:ARG:CZ	2:I:51:GLY:CA	1.75	0.72
1:D:1113:CYS:O	1:D:1115:VAL:N	2.22	0.72
1:A:520:MET:HE1	1:A:705:LEU:HB3	1.71	0.72
2:G:165:GLU:HB3	2:G:169:LYS:NZ	2.03	0.72
2:K:416:LYS:HE3	2:K:433:ASN:ND2	2.04	0.72
2:H:353:PHE:CD1	2:H:382:VAL:HG12	2.25	0.72
2:I:186:LEU:CD1	2:I:200:VAL:HB	2.19	0.72
2:J:31:ILE:HD13	2:J:336:HIS:NE2	2.05	0.72
1:F:290:THR:CG2	1:F:292:PRO:CD	2.68	0.72
2:L:257:ASN:CG	2:L:394:LEU:HA	2.08	0.72
2:H:164:GLU:HB2	2:H:207:LEU:HD22	1.70	0.72
2:H:71:LEU:CG	2:H:79:GLU:HB2	2.20	0.72
2:I:244:LYS:HD2	2:I:404:GLU:CB	2.13	0.72
2:G:371:VAL:HG21	2:G:386:SER:HB3	1.71	0.72
2:G:100:GLN:HE21	2:G:100:GLN:HA	1.53	0.72
1:C:464:ILE:CD1	1:C:779:TYR:CE1	2.71	0.72
2:I:197:LYS:CE	2:I:275:ASP:H	2.01	0.72
1:C:1376:LEU:CD2	1:C:1376:LEU:N	2.33	0.72
1:E:513:SER:CB	1:E:520:MET:CE	2.64	0.72
2:J:182:MET:CE	2:J:216:PRO:HG3	2.17	0.72
2:J:262:LEU:HB2	2:J:401:PHE:HE2	1.53	0.72
2:K:71:LEU:HD11	2:K:76:ARG:O	1.88	0.72
2:I:165:GLU:HB3	2:I:169:LYS:NZ	2.03	0.72
2:I:439:ALA:HB1	2:I:443:ILE:HD11	1.72	0.72
2:L:71:LEU:HD11	2:L:76:ARG:O	1.88	0.72
2:L:71:LEU:CG	2:L:79:GLU:HB2	2.20	0.72
2:L:182:MET:CE	2:L:216:PRO:HG3	2.17	0.72
2:H:423:LEU:H	2:H:423:LEU:HD22	1.55	0.72
1:F:1076:GLY:HA3	1:F:1145:GLU:CG	2.17	0.72
1:F:603:HIS:N	1:F:640:THR:HG22	2.05	0.72
1:C:454:PHE:HE2	1:C:647:ALA:CB	2.03	0.72
1:D:465:LEU:O	1:D:465:LEU:HD12	1.89	0.72
1:A:573:PHE:HB2	1:A:574:PRO:HD2	1.71	0.72
1:D:1164:ARG:NH1	1:D:1166:ASP:OD2	2.23	0.72
1:F:511:ILE:HG22	1:F:512:ASP:N	2.03	0.72
1:B:223:GLN:HB3	1:B:224:PRO:HA	1.72	0.72
2:L:322:ARG:HD2	2:L:349:ALA:HB1	1.71	0.72
2:L:378:GLN:O	2:L:380:PRO:HD3	1.89	0.72
2:J:378:GLN:O	2:J:380:PRO:HD3	1.89	0.72
1:D:781:PHE:CE2	1:D:791:GLU:HB3	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:353:PHE:CD1	2:K:382:VAL:HG12	2.25	0.72
2:J:186:LEU:CD1	2:J:200:VAL:HB	2.19	0.72
2:L:165:GLU:HB3	2:L:169:LYS:NZ	2.03	0.72
1:D:290:THR:CG2	1:D:292:PRO:CD	2.68	0.72
2:H:416:LYS:HE3	2:H:433:ASN:ND2	2.04	0.72
2:L:383:ILE:HD13	2:L:385:GLY:N	2.05	0.72
1:F:1369:THR:C	1:F:1389:GLY:O	2.28	0.72
1:B:1369:THR:C	1:B:1389:GLY:O	2.28	0.72
2:K:305:VAL:HG13	2:K:316:VAL:HG11	1.72	0.72
1:E:1289:MET:CE	1:E:1289:MET:H	2.03	0.72
1:C:96:GLU:HA	1:C:96:GLU:OE1	1.88	0.72
1:C:1401:LEU:HD11	1:C:1405:ILE:HB	1.71	0.72
1:C:1356:VAL:HG11	1:C:1431:HIS:HB2	1.71	0.72
1:C:375:ASP:OD2	1:C:377:THR:CB	2.26	0.72
2:K:257:ASN:ND2	2:K:364:ALA:HB3	2.04	0.72
2:I:31:ILE:HD13	2:I:336:HIS:NE2	2.05	0.72
2:J:423:LEU:H	2:J:423:LEU:HD22	1.55	0.72
2:H:383:ILE:HD13	2:H:385:GLY:N	2.05	0.72
1:B:999:LYS:HG2	1:B:1022:LEU:HD23	1.72	0.72
1:F:515:ARG:HD2	1:F:1367:TYR:HE1	1.49	0.72
2:G:383:ILE:HD13	2:G:385:GLY:H	1.54	0.72
1:D:1076:GLY:CA	1:D:1145:GLU:HG2	2.18	0.72
1:D:417:ASP:C	1:D:419:TRP:N	2.38	0.72
1:E:1317:THR:HG23	1:E:1358:GLU:OE1	1.88	0.72
1:D:603:HIS:N	1:D:640:THR:HG22	2.05	0.72
2:H:305:VAL:HG13	2:H:316:VAL:HG11	1.72	0.72
2:J:305:VAL:HG13	2:J:316:VAL:HG11	1.72	0.72
1:D:842:GLU:HB3	1:D:1156:ARG:HD3	1.72	0.72
1:B:842:GLU:HB3	1:B:1156:ARG:HD3	1.72	0.72
1:A:985:TYR:HE1	1:A:1207:VAL:HG13	1.53	0.72
1:F:223:GLN:HB3	1:F:224:PRO:HA	1.72	0.72
1:B:146:LEU:O	1:B:146:LEU:HD12	1.88	0.72
1:A:1260:GLN:OE1	1:E:899:ASN:OD1	2.08	0.72
1:C:1447:TRP:CZ2	1:C:1451:VAL:HG22	2.24	0.72
1:F:829:LEU:HD13	1:F:1168:LEU:HD13	1.70	0.72
1:D:731:SER:HA	1:D:748:GLY:N	2.04	0.72
2:H:257:ASN:ND2	2:H:364:ALA:HB3	2.04	0.72
1:E:734:LEU:HD12	1:E:738:HIS:HD2	1.54	0.72
2:J:439:ALA:HB1	2:J:443:ILE:HD11	1.72	0.72
2:H:469:LYS:HZ3	2:H:476:VAL:HA	1.54	0.72
1:D:525:ARG:HG2	1:D:542:LEU:HD13	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1369:THR:O	1:B:1369:THR:HG22	1.89	0.72
2:K:100:GLN:HA	2:K:100:GLN:HE21	1.53	0.72
2:I:305:VAL:HG13	2:I:316:VAL:HG11	1.72	0.72
1:C:918:THR:HG23	1:C:1256:MET:SD	2.30	0.72
1:C:1289:MET:CE	1:C:1289:MET:H	2.03	0.72
1:A:976:SER:OG	1:A:978:GLU:HG3	1.90	0.72
1:B:1417:VAL:HG12	1:B:1419:HIS:H	1.54	0.72
1:E:355:TYR:CD1	1:E:355:TYR:C	2.61	0.72
1:D:493:ARG:NH2	1:D:786:ASP:OD1	2.21	0.72
1:B:511:ILE:HG22	1:B:512:ASP:N	2.03	0.72
1:A:1227:GLU:HG3	1:E:902:ASN:HB2	1.59	0.72
1:B:500:ARG:NH2	1:B:1040:PHE:HA	2.05	0.72
2:L:353:PHE:CD1	2:L:382:VAL:HG12	2.25	0.72
1:F:500:ARG:NH2	1:F:1040:PHE:HA	2.05	0.72
2:G:416:LYS:HE3	2:G:433:ASN:ND2	2.04	0.72
2:G:71:LEU:HD11	2:G:76:ARG:O	1.88	0.72
2:G:71:LEU:CG	2:G:79:GLU:HB2	2.20	0.72
2:K:207:LEU:HG	2:K:212:VAL:HG11	1.70	0.72
2:J:225:SER:O	2:J:229:LEU:HD12	1.89	0.72
2:H:225:SER:O	2:H:229:LEU:HD12	1.89	0.72
1:F:236:THR:HG21	1:F:328:ASP:N	2.00	0.72
1:F:525:ARG:HG2	1:F:542:LEU:HD13	1.71	0.72
1:B:218:THR:CG2	1:B:221:LEU:HG	2.20	0.72
1:C:189:THR:HG22	1:C:190:THR:N	2.04	0.72
1:B:1212:ASP:O	1:B:1216:VAL:HG23	1.90	0.72
1:D:3:VAL:HG22	1:D:231:ASN:HB2	1.72	0.72
1:E:189:THR:HG22	1:E:190:THR:N	2.04	0.72
2:K:322:ARG:HG3	2:K:323:ASP:N	2.04	0.71
1:A:290:THR:HG22	1:A:292:PRO:N	2.05	0.71
1:F:731:SER:HA	1:F:747:SER:HA	1.71	0.71
1:C:875:MET:HE2	1:C:1139:PHE:CZ	2.24	0.71
1:E:60:LYS:O	1:E:63:GLY:N	2.19	0.71
2:I:225:SER:O	2:I:229:LEU:HD12	1.89	0.71
2:J:383:ILE:HD13	2:J:385:GLY:H	1.54	0.71
2:G:264:TYR:OH	2:G:308:ALA:HA	1.89	0.71
2:L:244:LYS:HD2	2:L:404:GLU:CB	2.13	0.71
2:L:262:LEU:HB2	2:L:401:PHE:HE2	1.53	0.71
2:H:31:ILE:HD13	2:H:336:HIS:NE2	2.05	0.71
2:K:383:ILE:HD13	2:K:385:GLY:N	2.05	0.71
2:L:371:VAL:HG21	2:L:386:SER:HB3	1.71	0.71
1:C:102:TYR:CD2	1:C:144:PHE:HE1	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:958:HIS:O	1:B:1369:THR:HG22	1.90	0.71
1:B:588:ARG:O	1:B:592:GLU:CG	2.38	0.71
1:B:52:GLN:NE2	1:B:71:LEU:H	1.87	0.71
1:F:1164:ARG:NH1	1:F:1166:ASP:OD2	2.23	0.71
1:A:1104:MET:C	2:J:54:PHE:HZ	1.91	0.71
1:A:781:PHE:CD2	2:J:57:VAL:HG21	2.23	0.71
1:A:899:ASN:OD1	1:C:1260:GLN:OE1	2.08	0.71
1:C:782:ARG:CB	2:K:56:GLN:NE2	2.38	0.71
1:A:1447:TRP:CZ2	1:A:1451:VAL:HG22	2.24	0.71
2:K:264:TYR:OH	2:K:308:ALA:HA	1.89	0.71
2:I:320:TYR:HB2	2:I:346:TRP:CD1	2.24	0.71
2:K:152:VAL:HG13	2:K:175:VAL:CA	2.15	0.71
2:H:388:PHE:HD2	2:H:390:VAL:HG13	1.52	0.71
2:L:92:GLU:HG2	2:L:128:ASN:OD1	1.89	0.71
2:L:31:ILE:HD13	2:L:336:HIS:NE2	2.05	0.71
1:F:704:LEU:O	1:F:705:LEU:C	2.25	0.71
1:E:102:TYR:CD2	1:E:144:PHE:HE1	2.06	0.71
1:E:1131:THR:HG23	1:E:1133:GLU:OE1	1.90	0.71
1:D:353:MET:HG2	1:D:385:LEU:HD23	1.72	0.71
1:A:1289:MET:H	1:A:1289:MET:CE	2.03	0.71
1:B:891:PRO:HA	1:B:894:PHE:CE2	2.24	0.71
1:E:782:ARG:HG3	2:L:52:VAL:HA	0.89	0.71
1:F:875:MET:CE	1:F:1139:PHE:CE2	2.73	0.71
2:J:322:ARG:HD2	2:J:349:ALA:HB1	1.71	0.71
2:J:353:PHE:CD1	2:J:382:VAL:HG12	2.25	0.71
1:F:781:PHE:CE2	1:F:791:GLU:HB3	2.25	0.71
1:B:782:ARG:HG2	2:G:53:PRO:HD2	0.77	0.71
2:G:220:VAL:CG2	8:G:484:FAD:C6A	2.68	0.71
2:K:164:GLU:HB2	2:K:207:LEU:HD22	1.70	0.71
2:G:353:PHE:CD1	2:G:382:VAL:HG12	2.25	0.71
2:L:440:ALA:CB	2:L:456:ASP:HB3	2.19	0.71
1:D:242:ASN:N	1:D:242:ASN:HD22	1.87	0.71
1:F:1369:THR:O	1:F:1369:THR:HG22	1.89	0.71
1:D:218:THR:CG2	1:D:221:LEU:HG	2.20	0.71
1:F:842:GLU:HB3	1:F:1156:ARG:HD3	1.72	0.71
1:A:724:ASN:N	1:A:724:ASN:ND2	2.36	0.71
1:A:1131:THR:HG23	1:A:1133:GLU:OE1	1.90	0.71
1:D:1253:LYS:O	1:D:1253:LYS:HG3	1.91	0.71
1:F:459:GLU:O	1:F:463:LEU:HB2	1.91	0.71
1:B:1164:ARG:NH1	1:B:1166:ASP:OD2	2.23	0.71
1:B:875:MET:CE	1:B:1139:PHE:CE2	2.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:320:TYR:HB2	2:J:346:TRP:CD1	2.24	0.71
1:C:1438:ARG:NE	2:J:376:GLY:C	2.44	0.71
1:B:781:PHE:CE2	1:B:791:GLU:HB3	2.25	0.71
2:G:305:VAL:HG13	2:G:316:VAL:HG11	1.72	0.71
2:G:423:LEU:H	2:G:423:LEU:HD22	1.55	0.71
2:K:91:PRO:HD2	2:K:203:ARG:NH2	2.04	0.71
2:K:71:LEU:CG	2:K:79:GLU:HB2	2.20	0.71
2:K:96:ARG:HG3	2:K:97:ILE:HG23	1.73	0.71
2:I:92:GLU:HG2	2:I:128:ASN:OD1	1.89	0.71
2:I:440:ALA:CB	2:I:456:ASP:HB3	2.19	0.71
2:J:144:ARG:HD2	2:J:169:LYS:HB3	1.73	0.71
2:J:383:ILE:HD13	2:J:385:GLY:N	2.05	0.71
2:H:91:PRO:HD2	2:H:203:ARG:NH2	2.04	0.71
2:I:383:ILE:HD13	2:I:385:GLY:N	2.05	0.71
2:L:366:ARG:HE	2:L:391:GLN:CG	2.01	0.71
1:D:1053:HIS:ND1	1:D:1062:ARG:NH1	2.39	0.71
1:E:218:THR:HG21	1:E:221:LEU:HG	1.73	0.71
1:B:1253:LYS:O	1:B:1253:LYS:HG3	1.91	0.71
1:B:493:ARG:NH2	1:B:786:ASP:OD1	2.21	0.71
1:D:1212:ASP:O	1:D:1216:VAL:HG23	1.90	0.71
1:E:850:ARG:HH11	1:E:850:ARG:HG3	1.53	0.71
1:C:1230:GLN:NE2	1:C:1267:ARG:HD3	2.05	0.71
1:B:746:ILE:HG22	1:B:747:SER:O	1.88	0.71
2:L:327:MET:HB2	2:L:346:TRP:HH2	1.54	0.71
2:I:322:ARG:HG3	2:I:323:ASP:N	2.04	0.71
2:J:96:ARG:HG3	2:J:97:ILE:HG23	1.73	0.71
1:D:236:THR:HG21	1:D:328:ASP:N	2.00	0.71
1:D:223:GLN:HB3	1:D:224:PRO:HA	1.72	0.71
1:A:1230:GLN:NE2	1:A:1267:ARG:HD3	2.05	0.71
1:B:182:MET:HE3	1:B:217:PRO:HB3	1.52	0.71
1:D:1184:ASN:O	1:D:1187:LEU:N	2.22	0.71
2:G:225:SER:O	2:G:229:LEU:HD12	1.89	0.71
2:J:220:VAL:CG2	8:J:484:FAD:C6A	2.68	0.71
2:I:262:LEU:HB2	2:I:401:PHE:HE2	1.53	0.71
1:A:838:VAL:CG1	1:A:839:PRO:N	2.53	0.71
1:B:242:ASN:HD22	1:B:242:ASN:N	1.87	0.71
1:B:319:TYR:O	1:B:322:SER:OG	2.09	0.71
1:F:588:ARG:O	1:F:592:GLU:CG	2.38	0.71
1:A:454:PHE:HE2	1:A:647:ALA:CB	2.03	0.71
1:D:459:GLU:O	1:D:463:LEU:HB2	1.91	0.71
1:B:353:MET:HG2	1:B:385:LEU:HD23	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1230:GLN:NE2	1:E:1267:ARG:HD3	2.05	0.71
2:L:319:LEU:HA	2:L:345:ILE:HD11	1.70	0.71
1:F:782:ARG:HG2	2:I:53:PRO:HD2	0.77	0.71
2:G:132:TRP:HD1	2:G:202:ARG:HD2	1.53	0.71
2:K:225:SER:O	2:K:229:LEU:HD12	1.89	0.71
2:H:383:ILE:HD13	2:H:385:GLY:H	1.54	0.71
2:L:207:LEU:HG	2:L:212:VAL:HG11	1.70	0.71
2:L:439:ALA:HB1	2:L:443:ILE:HD11	1.72	0.71
1:F:242:ASN:N	1:F:242:ASN:ND2	2.37	0.71
2:L:305:VAL:HG13	2:L:316:VAL:HG11	1.72	0.71
1:C:1131:THR:HG23	1:C:1133:GLU:OE1	1.89	0.71
1:E:1114:PRO:HA	2:L:112:GLN:C	1.74	0.71
1:A:1356:VAL:HG11	1:A:1431:HIS:HB2	1.71	0.71
2:J:350:PRO:C	2:J:372:ALA:HB3	2.11	0.71
1:B:1114:PRO:HA	2:G:112:GLN:C	1.84	0.71
1:E:290:THR:HG22	1:E:292:PRO:N	2.05	0.71
1:D:731:SER:HA	1:D:747:SER:HA	1.71	0.71
2:G:238:VAL:HG23	2:G:439:ALA:CB	2.21	0.71
2:J:264:TYR:HE2	2:J:307:THR:CG2	2.04	0.71
2:J:92:GLU:HG2	2:J:128:ASN:OD1	1.89	0.71
2:L:220:VAL:CG2	8:L:484:FAD:C6A	2.68	0.71
2:H:238:VAL:HG23	2:H:439:ALA:CB	2.21	0.71
2:H:220:VAL:CG2	8:H:484:FAD:C6A	2.68	0.71
1:D:319:TYR:O	1:D:322:SER:OG	2.09	0.71
1:F:958:HIS:O	1:F:1369:THR:HG22	1.90	0.71
1:D:838:VAL:CG1	1:D:839:PRO:HD2	2.19	0.71
1:E:918:THR:HG23	1:E:1256:MET:SD	2.30	0.71
1:C:997:THR:HG22	1:C:998:VAL:N	2.05	0.71
1:A:96:GLU:OE1	1:A:96:GLU:HA	1.89	0.71
1:F:88:ALA:O	1:F:92:ILE:HG13	1.91	0.71
1:B:3:VAL:HG22	1:B:231:ASN:HB2	1.72	0.71
1:B:1047:MET:CE	1:B:1186:ARG:NH2	2.44	0.71
1:B:731:SER:HA	1:B:747:SER:HA	1.71	0.71
2:K:350:PRO:C	2:K:372:ALA:HB3	2.12	0.71
1:C:734:LEU:HD12	1:C:738:HIS:HD2	1.54	0.71
2:K:238:VAL:HG23	2:K:439:ALA:CB	2.21	0.71
2:I:423:LEU:HD22	2:I:423:LEU:H	1.55	0.71
2:I:264:TYR:HE2	2:I:307:THR:CG2	2.04	0.71
2:G:350:PRO:C	2:G:372:ALA:HB3	2.11	0.71
2:H:144:ARG:HD2	2:H:169:LYS:HB3	1.73	0.71
2:G:383:ILE:HD13	2:G:385:GLY:N	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:366:ARG:HD3	2:I:389:THR:OG1	1.91	0.71
2:J:366:ARG:HD3	2:J:389:THR:OG1	1.91	0.71
1:B:665:THR:O	1:B:665:THR:HG22	1.89	0.71
1:F:1212:ASP:O	1:F:1216:VAL:HG23	1.90	0.71
1:E:997:THR:HG22	1:E:998:VAL:N	2.05	0.71
1:D:802:VAL:HG23	1:D:1137:ASN:HB2	1.73	0.71
1:D:88:ALA:O	1:D:92:ILE:HG13	1.91	0.71
2:L:350:PRO:C	2:L:372:ALA:HB3	2.12	0.71
1:F:1289:MET:HE3	1:F:1289:MET:HB2	1.71	0.71
1:E:253:HIS:H	1:E:260:MET:HE1	1.56	0.71
1:D:500:ARG:NH2	1:D:1040:PHE:HA	2.05	0.71
2:I:353:PHE:CD1	2:I:382:VAL:HG12	2.25	0.71
2:K:31:ILE:HD13	2:K:336:HIS:NE2	2.05	0.71
2:K:423:LEU:H	2:K:423:LEU:HD22	1.55	0.71
2:K:478:VAL:HG23	2:K:479:ALA:H	1.56	0.71
1:F:1053:HIS:CE1	1:F:1062:ARG:HH11	2.08	0.71
1:B:1076:GLY:CA	1:B:1145:GLU:HG2	2.18	0.71
1:D:603:HIS:N	1:D:640:THR:CG2	2.54	0.71
1:F:603:HIS:N	1:F:640:THR:CG2	2.54	0.71
1:F:593:THR:O	1:F:597:VAL:HG23	1.91	0.71
1:A:918:THR:HG23	1:A:1256:MET:SD	2.30	0.71
1:B:802:VAL:HG23	1:B:1137:ASN:HB2	1.73	0.71
1:B:1170:GLN:CG	1:B:1170:GLN:O	2.39	0.70
2:K:321:ARG:CB	2:K:351:GLU:HA	2.21	0.70
1:F:1184:ASN:O	1:F:1187:LEU:N	2.22	0.70
1:F:1394:VAL:O	1:F:1394:VAL:HG12	1.91	0.70
2:J:244:LYS:HD2	2:J:404:GLU:CB	2.13	0.70
1:E:838:VAL:CG1	1:E:839:PRO:N	2.53	0.70
2:I:144:ARG:HD2	2:I:169:LYS:HB3	1.73	0.70
2:I:71:LEU:CG	2:I:79:GLU:HB2	2.20	0.70
2:G:326:ASN:O	2:G:328:PRO:HD3	1.91	0.70
2:H:207:LEU:HG	2:H:212:VAL:HG11	1.70	0.70
1:B:295:LYS:NZ	1:B:299:VAL:HG12	2.06	0.70
1:D:1053:HIS:CE1	1:D:1062:ARG:HH11	2.08	0.70
1:C:1062:ARG:HG3	1:C:1062:ARG:O	1.90	0.70
1:C:218:THR:HG21	1:C:221:LEU:HG	1.73	0.70
1:D:593:THR:O	1:D:597:VAL:HG23	1.91	0.70
1:F:266:VAL:O	1:F:279:THR:CG2	2.39	0.70
1:A:183:PHE:CE1	1:A:188:LEU:HA	2.26	0.70
1:B:1039:LYS:C	1:B:1040:PHE:CD1	2.65	0.70
2:K:326:ASN:O	2:K:328:PRO:HD3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:802:VAL:HG23	1:F:1137:ASN:HB2	1.73	0.70
1:D:1170:GLN:O	1:D:1170:GLN:CG	2.39	0.70
2:H:264:TYR:HE2	2:H:307:THR:CG2	2.04	0.70
2:G:144:ARG:HD2	2:G:169:LYS:HB3	1.73	0.70
2:G:31:ILE:HD13	2:G:336:HIS:NE2	2.05	0.70
2:K:264:TYR:HE2	2:K:307:THR:CG2	2.04	0.70
2:G:319:LEU:HA	2:G:345:ILE:HD11	1.70	0.70
2:L:238:VAL:HG23	2:L:439:ALA:CB	2.21	0.70
2:H:152:VAL:HG13	2:H:175:VAL:CA	2.15	0.70
1:C:838:VAL:CG1	1:C:839:PRO:N	2.53	0.70
1:F:295:LYS:NZ	1:F:299:VAL:HG12	2.06	0.70
1:A:1062:ARG:O	1:A:1062:ARG:HG3	1.89	0.70
1:C:724:ASN:N	1:C:724:ASN:ND2	2.36	0.70
1:C:177:ILE:HD13	1:C:179:TYR:CE1	2.27	0.70
1:D:59:VAL:HG21	1:D:105:TYR:CD2	2.26	0.70
1:C:573:PHE:HB2	1:C:574:PRO:HD2	1.71	0.70
1:B:907:ILE:HG23	1:B:927:GLU:HG2	1.73	0.70
1:E:609:GLU:OE2	1:E:645:ARG:HD3	1.88	0.70
1:E:96:GLU:HA	1:E:96:GLU:OE1	1.89	0.70
1:C:976:SER:OG	1:C:978:GLU:HG3	1.90	0.70
1:C:899:ASN:OD1	1:E:1260:GLN:OE1	2.08	0.70
2:L:326:ASN:O	2:L:328:PRO:HD3	1.91	0.70
1:E:1438:ARG:HB3	2:K:375:THR:CA	2.14	0.70
2:G:194:LYS:HD2	2:G:306:ARG:HH21	1.57	0.70
2:I:350:PRO:C	2:I:372:ALA:HB3	2.12	0.70
2:I:96:ARG:HG3	2:I:97:ILE:HG23	1.73	0.70
2:G:321:ARG:CB	2:G:351:GLU:HA	2.21	0.70
2:L:152:VAL:CG1	2:L:175:VAL:HA	2.12	0.70
2:L:264:TYR:HE2	2:L:307:THR:CG2	2.04	0.70
2:G:417:VAL:HG12	2:G:418:THR:O	1.92	0.70
1:B:593:THR:O	1:B:597:VAL:HG23	1.91	0.70
2:K:197:LYS:HG2	2:K:273:LEU:HD12	1.73	0.70
1:A:501:GLN:HE21	1:A:653:HIS:CD2	2.10	0.70
1:B:266:VAL:O	1:B:279:THR:CG2	2.39	0.70
1:D:1348:VAL:O	1:D:1348:VAL:HG13	1.91	0.70
1:B:739:PHE:O	1:B:740:PRO:O	2.10	0.70
2:L:322:ARG:HG3	2:L:323:ASP:N	2.04	0.70
1:E:454:PHE:HE2	1:E:647:ALA:CB	2.03	0.70
1:B:820:ARG:CB	1:B:821:PRO:CD	2.66	0.70
1:E:875:MET:HE1	1:E:1139:PHE:CD2	2.26	0.70
2:K:194:LYS:HD2	2:K:306:ARG:HH21	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:34:ARG:HG3	2:J:125:LYS:HE2	1.73	0.70
2:J:238:VAL:HG23	2:J:439:ALA:CB	2.21	0.70
1:C:140:SER:O	1:C:143:GLN:N	2.24	0.70
2:L:423:LEU:H	2:L:423:LEU:HD22	1.55	0.70
2:H:194:LYS:HD2	2:H:306:ARG:HH21	1.57	0.70
2:H:34:ARG:HG3	2:H:125:LYS:HE2	1.74	0.70
2:I:420:TRP:HB2	2:I:422:THR:HG22	1.73	0.70
1:B:242:ASN:ND2	1:B:242:ASN:N	2.37	0.70
1:D:242:ASN:N	1:D:242:ASN:ND2	2.37	0.70
1:F:295:LYS:HD2	1:F:390:MET:CE	2.19	0.70
1:B:603:HIS:N	1:B:640:THR:CG2	2.54	0.70
1:B:1053:HIS:ND1	1:B:1062:ARG:NH1	2.39	0.70
1:D:266:VAL:O	1:D:279:THR:CG2	2.39	0.70
1:B:59:VAL:HG21	1:B:105:TYR:CD2	2.26	0.70
1:B:454:PHE:CE2	1:B:647:ALA:HB3	2.27	0.70
1:C:1362:SER:HA	1:C:1380:GLY:HA3	1.74	0.70
1:A:997:THR:HG22	1:A:998:VAL:N	2.05	0.70
1:A:1362:SER:HA	1:A:1380:GLY:HA3	1.74	0.70
1:F:353:MET:HG2	1:F:385:LEU:HD23	1.72	0.70
1:D:875:MET:CE	1:D:1139:PHE:CE2	2.73	0.70
1:A:253:HIS:H	1:A:260:MET:HE1	1.56	0.70
2:K:368:HIS:CE1	2:K:387:GLU:HG3	2.27	0.70
1:B:465:LEU:C	1:B:465:LEU:HD12	2.12	0.70
2:K:439:ALA:HB1	2:K:443:ILE:HD11	1.72	0.70
2:K:220:VAL:CG2	8:K:484:FAD:C6A	2.68	0.70
2:I:132:TRP:HD1	2:I:202:ARG:HD2	1.53	0.70
2:I:220:VAL:CG2	8:I:484:FAD:C6A	2.68	0.70
2:I:34:ARG:HG3	2:I:125:LYS:HE2	1.73	0.70
2:H:406:LEU:H	2:H:406:LEU:HD22	1.57	0.70
2:J:406:LEU:H	2:J:406:LEU:HD22	1.57	0.70
1:F:242:ASN:HD22	1:F:242:ASN:N	1.87	0.70
2:K:406:LEU:H	2:K:406:LEU:HD22	1.57	0.70
1:E:295:LYS:HZ3	1:E:299:VAL:HG12	1.54	0.70
1:D:389:GLU:CB	1:D:403:ASP:OD2	2.40	0.70
1:E:1076:GLY:HA3	1:E:1145:GLU:CG	2.22	0.70
1:D:588:ARG:O	1:D:592:GLU:CG	2.38	0.70
1:F:218:THR:CG2	1:F:221:LEU:HG	2.20	0.70
2:H:197:LYS:HG2	2:H:273:LEU:HD12	1.73	0.70
1:C:501:GLN:HE21	1:C:653:HIS:CD2	2.10	0.70
2:G:478:VAL:HG23	2:G:479:ALA:H	1.56	0.70
1:E:1356:VAL:HG11	1:E:1431:HIS:HB2	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:732:ARG:H	1:F:747:SER:HB3	1.57	0.70
2:H:271:VAL:HG11	2:H:284:SER:C	2.12	0.70
2:G:96:ARG:HG3	2:G:97:ILE:HG23	1.73	0.70
2:G:322:ARG:HD2	2:G:349:ALA:HB1	1.71	0.70
1:B:1053:HIS:CE1	1:B:1062:ARG:HH11	2.08	0.70
2:I:197:LYS:HG2	2:I:273:LEU:HD12	1.73	0.70
1:D:985:TYR:CE1	1:D:1207:VAL:HG13	2.27	0.70
1:F:3:VAL:HG22	1:F:231:ASN:HB2	1.72	0.70
1:F:1105:VAL:HG13	1:F:1107:GLN:HG3	1.74	0.70
1:E:501:GLN:HE21	1:E:653:HIS:CD2	2.10	0.70
2:H:302:MET:HE1	2:H:333:GLU:HG3	1.73	0.70
2:J:90:PHE:CD2	2:J:203:ARG:HG3	2.27	0.70
2:J:440:ALA:CB	2:J:456:ASP:HB3	2.19	0.70
1:A:140:SER:O	1:A:143:GLN:N	2.24	0.70
2:K:417:VAL:HG12	2:K:418:THR:O	1.92	0.70
1:F:1053:HIS:ND1	1:F:1062:ARG:NH1	2.39	0.70
1:B:1121:ASP:OD1	1:B:1122:ASP:N	2.25	0.70
1:D:794:VAL:HG12	1:D:795:ILE:N	2.07	0.70
1:B:459:GLU:O	1:B:463:LEU:HB2	1.91	0.70
1:D:907:ILE:HG23	1:D:927:GLU:HG2	1.73	0.70
1:B:88:ALA:O	1:B:92:ILE:HG13	1.91	0.70
2:L:477:ALA:O	2:L:478:VAL:HG13	1.92	0.70
1:C:902:ASN:ND2	1:E:1227:GLU:HG3	2.07	0.70
1:F:780:ARG:HG2	2:I:51:GLY:O	1.92	0.70
2:G:440:ALA:CB	2:G:456:ASP:HB3	2.19	0.70
1:B:1394:VAL:O	1:B:1394:VAL:HG12	1.91	0.70
2:K:477:ALA:O	2:K:478:VAL:HG13	1.92	0.70
2:I:238:VAL:HG23	2:I:439:ALA:CB	2.21	0.70
2:I:90:PHE:CD2	2:I:203:ARG:HG3	2.27	0.70
2:J:469:LYS:HZ3	2:J:476:VAL:HA	1.57	0.70
2:H:77:LEU:HA	2:H:127:ILE:CD1	2.22	0.70
2:G:420:TRP:HB2	2:G:422:THR:HG22	1.73	0.70
2:G:406:LEU:HD22	2:G:406:LEU:H	1.57	0.70
1:C:974:ILE:CD1	1:C:983:LEU:HD12	2.19	0.70
2:K:420:TRP:HB2	2:K:422:THR:HG22	1.73	0.70
2:J:420:TRP:HB2	2:J:422:THR:HG22	1.73	0.70
2:K:366:ARG:HD3	2:K:389:THR:OG1	1.91	0.70
1:F:604:VAL:HG23	1:F:640:THR:HG21	1.73	0.70
1:A:218:THR:HG21	1:A:221:LEU:HG	1.73	0.70
2:L:197:LYS:HG2	2:L:273:LEU:HD12	1.73	0.70
1:B:302:ALA:HB2	1:B:347:ARG:NH1	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:177:ILE:HD13	1:A:179:TYR:CE1	2.27	0.70
1:F:1414:ARG:NH2	1:F:1455:TRP:CZ2	2.60	0.70
1:F:794:VAL:HG12	1:F:795:ILE:N	2.07	0.70
1:F:454:PHE:CE2	1:F:647:ALA:HB3	2.27	0.70
1:E:781:PHE:O	2:L:52:VAL:HB	1.85	0.70
1:C:1104:MET:C	2:K:54:PHE:HZ	1.91	0.70
2:G:271:VAL:HG11	2:G:284:SER:C	2.12	0.70
2:L:77:LEU:HA	2:L:127:ILE:CD1	2.22	0.70
1:E:140:SER:O	1:E:143:GLN:N	2.24	0.70
2:L:417:VAL:HG12	2:L:418:THR:O	1.92	0.70
1:D:604:VAL:HG23	1:D:640:THR:HG21	1.73	0.70
2:G:100:GLN:CB	2:G:105:GLU:HG2	2.22	0.70
2:J:100:GLN:CB	2:J:105:GLU:HG2	2.22	0.70
2:I:477:ALA:O	2:I:478:VAL:HG13	1.92	0.70
1:C:183:PHE:CE1	1:C:188:LEU:HA	2.26	0.70
1:B:107:TRP:CD1	1:B:107:TRP:N	2.59	0.70
1:B:932:VAL:O	1:B:933:ALA:HB2	1.92	0.70
1:D:739:PHE:O	1:D:740:PRO:O	2.10	0.70
1:E:183:PHE:CE1	1:E:188:LEU:HA	2.26	0.70
1:B:1449:ARG:CB	1:B:1449:ARG:NH1	1.80	0.70
1:D:447:LEU:CD1	1:D:451:GLN:HG3	2.22	0.70
2:J:271:VAL:HG11	2:J:284:SER:C	2.12	0.70
2:K:241:GLY:N	2:K:443:ILE:HG23	2.07	0.70
2:H:321:ARG:CB	2:H:351:GLU:HA	2.21	0.70
2:H:179:TYR:CB	2:H:181:ARG:HH12	2.05	0.70
2:G:295:LEU:O	2:G:398:ALA:HB3	1.92	0.70
2:L:144:ARG:HD2	2:L:169:LYS:HB3	1.73	0.70
2:L:194:LYS:HD2	2:L:306:ARG:HH21	1.57	0.70
2:G:366:ARG:HD3	2:G:389:THR:OG1	1.91	0.70
1:E:1338:ALA:HB3	1:E:1357:VAL:HG22	1.74	0.70
1:F:985:TYR:CE1	1:F:1207:VAL:HG13	2.27	0.70
2:L:478:VAL:HG23	2:L:479:ALA:H	1.56	0.70
2:L:321:ARG:CB	2:L:351:GLU:HA	2.21	0.69
2:J:368:HIS:CE1	2:J:387:GLU:HG3	2.27	0.69
1:C:290:THR:HG22	1:C:292:PRO:N	2.05	0.69
1:D:732:ARG:H	1:D:747:SER:HB3	1.57	0.69
2:K:271:VAL:HG11	2:K:284:SER:C	2.12	0.69
1:E:515:ARG:NE	1:E:1367:TYR:CE1	2.60	0.69
2:I:326:ASN:O	2:I:328:PRO:HD3	1.91	0.69
1:B:290:THR:CG2	1:B:292:PRO:CD	2.68	0.69
2:G:264:TYR:HE2	2:G:307:THR:CG2	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:121:GLY:O	2:L:125:LYS:HD3	1.92	0.69
2:H:477:ALA:O	2:H:478:VAL:HG13	1.92	0.69
2:H:478:VAL:HG23	2:H:479:ALA:H	1.56	0.69
2:K:383:ILE:HD13	2:K:385:GLY:H	1.54	0.69
2:L:366:ARG:HD3	2:L:389:THR:OG1	1.91	0.69
2:H:418:THR:HG21	2:H:422:THR:HG23	1.74	0.69
1:A:113:ASN:HD22	1:A:114:VAL:N	1.89	0.69
1:B:603:HIS:N	1:B:640:THR:HG22	2.05	0.69
1:C:1076:GLY:HA3	1:C:1145:GLU:CG	2.22	0.69
1:C:413:LEU:O	1:C:414:LYS:CD	2.40	0.69
1:F:302:ALA:HB2	1:F:347:ARG:NH1	2.07	0.69
1:B:1090:PHE:N	1:B:1090:PHE:CD1	2.60	0.69
1:B:499:PHE:HE1	1:B:742:MET:HE1	1.57	0.69
1:B:1414:ARG:NH2	1:B:1455:TRP:CZ2	2.60	0.69
1:C:1221:PRO:CG	1:C:1229:MET:CE	2.70	0.69
2:L:321:ARG:C	2:L:351:GLU:HA	2.13	0.69
1:A:1438:ARG:NE	2:L:376:GLY:C	2.44	0.69
1:E:1438:ARG:NE	2:K:376:GLY:C	2.44	0.69
1:A:59:VAL:HG21	1:A:105:TYR:CE2	2.27	0.69
1:C:515:ARG:NE	1:C:1367:TYR:CE1	2.60	0.69
1:D:1394:VAL:O	1:D:1394:VAL:HG12	1.91	0.69
2:K:34:ARG:HG3	2:K:125:LYS:HE2	1.73	0.69
2:J:241:GLY:N	2:J:443:ILE:HG23	2.07	0.69
2:I:271:VAL:HG11	2:I:284:SER:C	2.12	0.69
1:C:240:ASN:HD21	1:C:327:TRP:HA	1.58	0.69
1:F:319:TYR:O	1:F:322:SER:OG	2.09	0.69
1:F:1053:HIS:CE1	1:F:1062:ARG:NH1	2.60	0.69
1:C:113:ASN:HD22	1:C:114:VAL:N	1.89	0.69
1:D:1053:HIS:CE1	1:D:1062:ARG:NH1	2.60	0.69
1:D:958:HIS:O	1:D:1369:THR:HG22	1.90	0.69
1:E:177:ILE:HD13	1:E:179:TYR:CE1	2.27	0.69
1:F:312:ASN:OD1	1:F:312:ASN:N	2.25	0.69
1:E:1104:MET:C	2:L:54:PHE:HZ	1.91	0.69
1:E:1221:PRO:CG	1:E:1229:MET:CE	2.70	0.69
1:F:447:LEU:CD1	1:F:451:GLN:HG3	2.22	0.69
2:K:179:TYR:CB	2:K:181:ARG:HH12	2.05	0.69
1:A:734:LEU:HD12	1:A:738:HIS:HD2	1.54	0.69
2:K:144:ARG:HD2	2:K:169:LYS:HB3	1.73	0.69
2:K:77:LEU:HA	2:K:127:ILE:CD1	2.22	0.69
2:J:121:GLY:O	2:J:125:LYS:HD3	1.92	0.69
2:L:449:LEU:CD1	2:L:451:VAL:HG12	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:271:VAL:HG11	2:L:284:SER:C	2.12	0.69
2:H:121:GLY:O	2:H:125:LYS:HD3	1.92	0.69
2:H:241:GLY:N	2:H:443:ILE:HG23	2.07	0.69
2:H:90:PHE:CD2	2:H:203:ARG:HG3	2.27	0.69
1:D:295:LYS:NZ	1:D:299:VAL:HG12	2.06	0.69
1:A:1076:GLY:HA3	1:A:1145:GLU:CG	2.22	0.69
2:G:197:LYS:HE2	2:G:275:ASP:N	2.08	0.69
1:D:985:TYR:CE1	1:D:1207:VAL:CG1	2.75	0.69
1:C:461:MET:HE1	1:C:465:LEU:HD23	1.74	0.69
1:E:1121:ASP:OD2	1:E:1124:LEU:HB2	1.93	0.69
1:D:454:PHE:CE2	1:D:647:ALA:HB3	2.26	0.69
2:J:477:ALA:O	2:J:478:VAL:HG13	1.92	0.69
1:B:1059:ASN:N	1:B:1059:ASN:HD22	1.91	0.69
1:F:739:PHE:O	1:F:740:PRO:O	2.10	0.69
2:J:321:ARG:CB	2:J:351:GLU:HA	2.21	0.69
1:D:782:ARG:N	2:H:52:VAL:HB	2.07	0.69
1:D:1039:LYS:C	1:D:1040:PHE:CD1	2.65	0.69
2:G:121:GLY:O	2:G:125:LYS:HD3	1.92	0.69
2:G:439:ALA:HB1	2:G:443:ILE:HD11	1.72	0.69
2:H:180:ASP:O	2:H:182:MET:HE1	1.93	0.69
2:I:121:GLY:O	2:I:125:LYS:HD3	1.92	0.69
2:I:122:SER:HA	2:I:125:LYS:HE3	1.75	0.69
2:G:327:MET:HB2	2:G:346:TRP:HH2	1.54	0.69
2:G:368:HIS:CE1	2:G:387:GLU:HG3	2.27	0.69
2:L:180:ASP:O	2:L:182:MET:HE1	1.93	0.69
1:F:419:TRP:O	1:F:540:THR:HG21	1.92	0.69
1:A:1317:THR:HG23	1:A:1358:GLU:OE1	1.88	0.69
1:D:426:LEU:HD22	1:D:543:LEU:HB3	1.73	0.69
1:A:1338:ALA:HB3	1:A:1357:VAL:HG22	1.74	0.69
1:A:496:HIS:O	1:A:653:HIS:HE1	1.76	0.69
1:B:309:THR:HB	1:B:314:LYS:HE3	1.74	0.69
1:A:1415:ILE:HG21	1:A:1421:GLU:HB2	1.75	0.69
2:L:321:ARG:HB2	2:L:351:GLU:CA	2.23	0.69
1:E:496:HIS:O	1:E:653:HIS:HE1	1.76	0.69
1:C:746:ILE:HG23	1:C:1182:ASP:H	1.54	0.69
2:J:179:TYR:CB	2:J:181:ARG:HH12	2.05	0.69
1:A:515:ARG:NE	1:A:1367:TYR:CE1	2.60	0.69
2:K:121:GLY:O	2:K:125:LYS:HD3	1.92	0.69
2:K:77:LEU:HA	2:K:127:ILE:HD11	1.75	0.69
2:H:322:ARG:HD2	2:H:326:ASN:HD21	1.58	0.69
2:H:350:PRO:C	2:H:372:ALA:HB3	2.12	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:165:GLU:OE2	2:J:458:ARG:HA	1.92	0.69
1:D:999:LYS:HG2	1:D:1022:LEU:HD23	1.72	0.69
2:L:122:SER:HA	2:L:125:LYS:HE3	1.75	0.69
2:H:96:ARG:HA	2:H:125:LYS:HD2	1.75	0.69
2:H:439:ALA:HB1	2:H:443:ILE:HD11	1.72	0.69
2:H:96:ARG:HG3	2:H:97:ILE:HG23	1.73	0.69
2:K:418:THR:HG21	2:K:422:THR:HG23	1.74	0.69
1:D:528:ASN:C	1:D:529:LEU:HD23	2.13	0.69
2:L:197:LYS:HE2	2:L:275:ASP:N	2.07	0.69
1:C:414:LYS:HB3	1:C:415:PRO:CD	2.23	0.69
1:C:496:HIS:O	1:C:653:HIS:HE1	1.76	0.69
1:C:208:HIS:CE1	1:C:223:GLN:OE1	2.45	0.69
1:C:1121:ASP:OD2	1:C:1124:LEU:HB2	1.93	0.69
2:J:326:ASN:O	2:J:328:PRO:HD3	1.91	0.69
1:D:1112:THR:O	2:H:112:GLN:NE2	2.19	0.69
1:D:780:ARG:HG2	2:H:51:GLY:O	1.92	0.69
1:B:1112:THR:O	2:G:112:GLN:NE2	2.19	0.69
2:K:319:LEU:CB	2:K:345:ILE:HD11	2.23	0.69
2:K:322:ARG:HD2	2:K:326:ASN:HD21	1.58	0.69
2:K:321:ARG:HA	2:K:352:GLY:N	2.08	0.69
1:F:465:LEU:HD12	1:F:465:LEU:C	2.12	0.69
2:K:451:VAL:HA	2:K:454:ILE:HG22	1.75	0.69
2:H:321:ARG:C	2:H:351:GLU:HA	2.13	0.69
2:I:165:GLU:OE2	2:I:458:ARG:HA	1.92	0.69
2:J:77:LEU:HA	2:J:127:ILE:CD1	2.22	0.69
2:J:77:LEU:HA	2:J:127:ILE:HD11	1.75	0.69
1:A:974:ILE:CD1	1:A:983:LEU:HD12	2.19	0.69
1:E:113:ASN:HD22	1:E:114:VAL:N	1.89	0.69
2:H:366:ARG:HD3	2:H:389:THR:OG1	1.91	0.69
1:B:604:VAL:HG23	1:B:640:THR:HG21	1.73	0.69
1:B:1008:THR:CG2	1:B:1009:ILE:N	2.55	0.69
1:B:1053:HIS:CE1	1:B:1062:ARG:NH1	2.60	0.69
1:A:414:LYS:HB3	1:A:415:PRO:CD	2.23	0.69
2:J:197:LYS:HE2	2:J:275:ASP:N	2.08	0.69
1:F:1121:ASP:OD1	1:F:1122:ASP:N	2.25	0.69
1:F:753:GLY:O	1:F:754:ILE:C	2.25	0.69
1:F:59:VAL:HG21	1:F:105:TYR:CD2	2.27	0.69
2:G:477:ALA:O	2:G:478:VAL:HG13	1.92	0.69
1:D:1414:ARG:NH2	1:D:1455:TRP:CZ2	2.60	0.69
1:E:208:HIS:CE1	1:E:223:GLN:OE1	2.45	0.69
1:A:208:HIS:CE1	1:A:223:GLN:OE1	2.45	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1253:LYS:O	1:F:1253:LYS:HG3	1.91	0.69
1:F:1090:PHE:N	1:F:1090:PHE:CD1	2.60	0.69
1:F:1348:VAL:O	1:F:1348:VAL:HG13	1.92	0.69
1:F:875:MET:HE1	1:F:1139:PHE:CD2	2.27	0.69
2:J:302:MET:HE1	2:J:333:GLU:HG3	1.74	0.69
2:J:322:ARG:HD2	2:J:326:ASN:HD21	1.58	0.69
1:D:782:ARG:HH21	2:H:51:GLY:CA	0.99	0.69
1:E:253:HIS:CE1	1:E:254:PRO:CD	2.62	0.69
2:G:451:VAL:HA	2:G:454:ILE:HG22	1.75	0.69
2:I:321:ARG:HA	2:I:352:GLY:N	2.08	0.69
2:I:322:ARG:HD2	2:I:326:ASN:HD21	1.58	0.69
2:H:295:LEU:O	2:H:398:ALA:HB3	1.92	0.69
2:I:77:LEU:HA	2:I:127:ILE:CD1	2.22	0.69
2:G:321:ARG:HB2	2:G:351:GLU:CA	2.23	0.69
2:L:220:VAL:CG2	8:L:484:FAD:N1A	2.56	0.69
2:L:90:PHE:CD2	2:L:203:ARG:HG3	2.27	0.69
1:E:240:ASN:HD21	1:E:327:TRP:HA	1.58	0.69
2:L:420:TRP:HB2	2:L:422:THR:HG22	1.73	0.69
2:L:406:LEU:HD22	2:L:406:LEU:H	1.57	0.69
1:F:528:ASN:C	1:F:529:LEU:HD23	2.13	0.69
1:F:734:LEU:HD12	1:F:738:HIS:CD2	2.25	0.69
1:A:1311:THR:CG2	1:A:1312:SER:N	2.55	0.69
1:D:302:ALA:HB2	1:D:347:ARG:NH1	2.07	0.69
1:C:313:HIS:O	1:C:317:ILE:HG13	1.93	0.69
1:A:1019:ASP:OD2	1:A:1204:ARG:HB2	1.92	0.69
1:F:1059:ASN:HD22	1:F:1059:ASN:N	1.91	0.69
1:A:358:THR:HB	1:A:360:ASP:OD1	1.92	0.69
1:E:442:MET:HE1	1:E:447:LEU:HA	1.75	0.69
1:C:442:MET:HE1	1:C:447:LEU:HA	1.75	0.69
1:D:1449:ARG:O	1:D:1452:THR:HB	1.93	0.69
1:E:1221:PRO:HG2	1:E:1229:MET:CE	2.23	0.69
2:L:368:HIS:CE1	2:L:387:GLU:HG3	2.27	0.69
2:J:321:ARG:HA	2:J:352:GLY:N	2.08	0.69
1:D:783:LYS:HE2	2:H:57:VAL:CG1	2.17	0.69
1:D:1105:VAL:HG13	1:D:1107:GLN:HG3	1.74	0.69
2:K:321:ARG:C	2:K:351:GLU:HA	2.13	0.69
1:F:442:MET:HG3	1:F:673:GLU:OE2	1.93	0.69
2:G:241:GLY:N	2:G:443:ILE:HG23	2.07	0.69
2:I:295:LEU:O	2:I:398:ALA:HB3	1.92	0.69
2:I:321:ARG:C	2:I:351:GLU:HA	2.13	0.69
2:I:368:HIS:CE1	2:I:387:GLU:HG3	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1438:ARG:HD2	2:H:377:ARG:N	1.49	0.69
2:H:326:ASN:O	2:H:328:PRO:HD3	1.91	0.69
2:H:368:HIS:CE1	2:H:387:GLU:HG3	2.27	0.69
2:K:449:LEU:CD1	2:K:451:VAL:HG12	2.22	0.69
2:K:469:LYS:HZ3	2:K:476:VAL:HA	1.57	0.69
2:K:90:PHE:CD2	2:K:203:ARG:HG3	2.27	0.69
2:H:321:ARG:HA	2:H:352:GLY:N	2.08	0.69
2:G:179:TYR:CB	2:G:181:ARG:HH12	2.05	0.69
2:I:77:LEU:HA	2:I:127:ILE:HD11	1.75	0.69
2:J:194:LYS:HD2	2:J:306:ARG:HH21	1.57	0.69
2:J:451:VAL:HA	2:J:454:ILE:HG22	1.75	0.69
2:G:321:ARG:C	2:G:351:GLU:HA	2.13	0.69
2:G:319:LEU:CB	2:G:345:ILE:HD11	2.23	0.69
2:L:96:ARG:HG3	2:L:97:ILE:HG23	1.73	0.69
2:I:406:LEU:H	2:I:406:LEU:HD22	1.57	0.69
1:A:345:MET:CG	1:A:346:ASP:N	2.55	0.69
2:J:418:THR:HG21	2:J:422:THR:HG23	1.74	0.69
2:J:417:VAL:HG12	2:J:418:THR:O	1.92	0.69
1:D:419:TRP:O	1:D:540:THR:HG21	1.92	0.69
2:H:420:TRP:HB2	2:H:422:THR:HG22	1.73	0.69
2:L:100:GLN:CB	2:L:105:GLU:HG2	2.22	0.69
1:B:426:LEU:HD22	1:B:543:LEU:HB3	1.73	0.69
1:F:426:LEU:HD22	1:F:543:LEU:HB3	1.73	0.69
1:E:1311:THR:CG2	1:E:1312:SER:N	2.55	0.69
1:E:413:LEU:O	1:E:414:LYS:CD	2.40	0.69
2:J:197:LYS:HG2	2:J:273:LEU:HD12	1.73	0.69
1:C:9:ILE:HG13	1:C:361:GLY:O	1.93	0.69
1:E:1388:THR:O	1:E:1388:THR:HG22	1.93	0.69
1:A:313:HIS:O	1:A:317:ILE:HG13	1.93	0.69
1:D:1121:ASP:OD1	1:D:1122:ASP:N	2.25	0.69
1:B:1054:GLN:O	1:B:1057:THR:N	2.26	0.69
1:E:8:ALA:HA	1:E:362:LEU:HD12	1.75	0.69
1:F:1447:TRP:CE2	1:F:1451:VAL:HG22	2.28	0.69
1:D:932:VAL:O	1:D:933:ALA:HB2	1.92	0.69
1:A:1276:LEU:HD12	1:A:1277:GLY:N	2.08	0.69
1:D:1447:TRP:CE2	1:D:1451:VAL:HG22	2.28	0.69
1:E:1276:LEU:HD12	1:E:1277:GLY:N	2.08	0.69
1:A:1221:PRO:CG	1:A:1229:MET:CE	2.70	0.69
1:A:1221:PRO:HG2	1:A:1229:MET:CE	2.23	0.69
2:L:321:ARG:HA	2:L:352:GLY:N	2.08	0.69
1:F:782:ARG:HD3	2:I:53:PRO:CD	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1289:MET:HB2	1:B:1289:MET:HE3	1.73	0.69
1:F:1039:LYS:C	1:F:1040:PHE:CD1	2.65	0.69
2:G:77:LEU:HA	2:G:127:ILE:CD1	2.22	0.69
2:G:44:ALA:HA	2:G:69:LEU:CD1	2.22	0.69
2:K:165:GLU:OE2	2:K:458:ARG:HA	1.92	0.69
2:H:319:LEU:CB	2:H:345:ILE:HD11	2.23	0.69
2:J:96:ARG:HA	2:J:125:LYS:HD2	1.75	0.69
2:J:71:LEU:CG	2:J:79:GLU:HB2	2.20	0.69
2:G:302:MET:HE1	2:G:333:GLU:HG3	1.74	0.69
2:H:440:ALA:CB	2:H:456:ASP:HB3	2.19	0.69
2:I:417:VAL:HG12	2:I:418:THR:O	1.92	0.69
1:B:528:ASN:C	1:B:529:LEU:HD23	2.13	0.69
1:B:603:HIS:CA	1:B:640:THR:CG2	2.71	0.69
1:E:728:ILE:HD12	1:E:1047:MET:HE3	1.75	0.69
1:D:1054:GLN:O	1:D:1057:THR:N	2.26	0.69
1:A:447:LEU:CD1	1:A:451:GLN:HG3	2.23	0.69
1:B:1449:ARG:O	1:B:1452:THR:HB	1.93	0.69
2:J:319:LEU:CB	2:J:345:ILE:HD11	2.23	0.69
1:B:780:ARG:HG2	2:G:51:GLY:O	1.92	0.69
2:G:220:VAL:CG2	8:G:484:FAD:N1A	2.56	0.69
2:G:321:ARG:HA	2:G:352:GLY:N	2.08	0.69
2:L:34:ARG:HG3	2:L:125:LYS:HE2	1.74	0.69
2:L:179:TYR:CB	2:L:181:ARG:HH12	2.05	0.69
2:H:165:GLU:OE2	2:H:458:ARG:HA	1.92	0.69
1:B:985:TYR:CE1	1:B:1207:VAL:CG1	2.75	0.69
1:A:985:TYR:CE1	1:A:1207:VAL:HG13	2.28	0.69
2:J:478:VAL:HG23	2:J:479:ALA:H	1.56	0.69
1:F:907:ILE:HG23	1:F:927:GLU:HG2	1.73	0.69
2:L:322:ARG:HD2	2:L:326:ASN:HD21	1.58	0.68
2:K:327:MET:HB2	2:K:346:TRP:HH2	1.54	0.68
1:F:728:ILE:HD12	1:F:1047:MET:HE1	1.75	0.68
2:I:241:GLY:N	2:I:443:ILE:HG23	2.07	0.68
2:I:194:LYS:HD2	2:I:306:ARG:HH21	1.57	0.68
2:J:122:SER:HA	2:J:125:LYS:HE3	1.75	0.68
2:L:71:LEU:HD21	2:L:76:ARG:O	1.93	0.68
2:H:77:LEU:HA	2:H:127:ILE:HD11	1.75	0.68
2:H:90:PHE:HB3	2:H:93:ILE:HG21	1.76	0.68
2:I:179:TYR:CB	2:I:181:ARG:HH12	2.05	0.68
1:B:515:ARG:HD2	1:B:1367:TYR:HE1	1.49	0.68
1:A:295:LYS:HZ3	1:A:299:VAL:HG12	1.57	0.68
1:D:386:GLY:O	1:D:389:GLU:HG3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:602:THR:C	1:D:640:THR:HG22	2.14	0.68
1:C:1311:THR:CG2	1:C:1312:SER:N	2.55	0.68
1:E:414:LYS:HB3	1:E:415:PRO:CD	2.23	0.68
1:A:454:PHE:CD2	1:A:648:GLU:HB2	2.28	0.68
1:F:985:TYR:CE1	1:F:1207:VAL:CG1	2.75	0.68
1:B:794:VAL:HG12	1:B:795:ILE:N	2.07	0.68
1:C:152:ARG:O	1:C:156:GLU:HB2	1.94	0.68
1:C:479:MET:HG3	1:C:1104:MET:HE3	1.75	0.68
1:F:1449:ARG:O	1:F:1452:THR:HB	1.93	0.68
2:L:295:LEU:O	2:L:398:ALA:HB3	1.92	0.68
2:J:295:LEU:O	2:J:398:ALA:HB3	1.92	0.68
1:A:1449:ARG:HB2	1:A:1449:ARG:CZ	2.19	0.68
1:B:1105:VAL:HG13	1:B:1107:GLN:HG3	1.74	0.68
2:I:321:ARG:HB2	2:I:351:GLU:CA	2.23	0.68
2:I:321:ARG:CB	2:I:351:GLU:HA	2.21	0.68
2:K:96:ARG:HA	2:K:125:LYS:HD2	1.75	0.68
2:K:440:ALA:CB	2:K:456:ASP:HB3	2.19	0.68
2:I:451:VAL:HA	2:I:454:ILE:HG22	1.75	0.68
2:J:449:LEU:CD1	2:J:451:VAL:HG12	2.22	0.68
2:G:418:THR:HG21	2:G:422:THR:HG23	1.74	0.68
2:J:148:LEU:HB3	2:J:234:VAL:HG21	1.75	0.68
1:B:295:LYS:HD2	1:B:390:MET:CE	2.19	0.68
2:H:417:VAL:HG12	2:H:418:THR:O	1.92	0.68
1:B:389:GLU:CB	1:B:403:ASP:OD2	2.40	0.68
1:C:1317:THR:HG21	1:C:1358:GLU:OE1	1.92	0.68
1:F:602:THR:C	1:F:640:THR:HG22	2.14	0.68
1:D:950:THR:CG2	1:D:951:GLU:H	2.06	0.68
1:F:1388:THR:O	1:F:1388:THR:HG22	1.94	0.68
1:E:985:TYR:CE1	1:E:1207:VAL:HG13	2.28	0.68
1:A:1289:MET:H	1:A:1289:MET:HE3	1.58	0.68
1:F:932:VAL:O	1:F:933:ALA:HB2	1.92	0.68
1:C:358:THR:HB	1:C:360:ASP:OD1	1.92	0.68
1:D:211:TYR:HD1	1:D:212:SER:H	1.42	0.68
1:F:182:MET:CE	1:F:217:PRO:C	2.62	0.68
1:A:253:HIS:CE1	1:A:254:PRO:CD	2.62	0.68
1:D:731:SER:O	1:D:735:VAL:HG23	1.93	0.68
1:B:447:LEU:CD1	1:B:451:GLN:HG3	2.22	0.68
2:G:449:LEU:CD1	2:G:451:VAL:HG12	2.22	0.68
2:G:90:PHE:CD2	2:G:203:ARG:HG3	2.27	0.68
1:E:52:GLN:HE22	1:E:71:LEU:HB2	1.59	0.68
1:A:746:ILE:HG23	1:A:1182:ASP:H	1.54	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:44:ALA:HA	2:K:69:LEU:CD1	2.22	0.68
1:B:419:TRP:O	1:B:540:THR:HG21	1.92	0.68
1:F:113:ASN:HD22	1:F:114:VAL:N	1.91	0.68
1:A:1388:THR:HG22	1:A:1388:THR:O	1.93	0.68
1:C:1412:PHE:HA	1:C:1456:GLN:O	1.94	0.68
1:D:454:PHE:HE2	1:D:647:ALA:HB3	1.58	0.68
1:E:208:HIS:CD2	1:E:209:GLN:O	2.46	0.68
1:C:8:ALA:HA	1:C:362:LEU:HD12	1.75	0.68
1:C:1019:ASP:OD2	1:C:1204:ARG:HB2	1.93	0.68
1:A:152:ARG:O	1:A:156:GLU:HB2	1.94	0.68
1:B:1102:CYS:HG	6:B:2476:F3S:FE1	1.09	0.68
1:C:447:LEU:CD1	1:C:451:GLN:HG3	2.23	0.68
2:J:321:ARG:C	2:J:351:GLU:HA	2.13	0.68
2:J:317:LYS:HE3	2:J:345:ILE:CG1	2.24	0.68
2:K:295:LEU:O	2:K:398:ALA:HB3	1.92	0.68
2:G:122:SER:HA	2:G:125:LYS:HE3	1.75	0.68
2:K:181:ARG:C	2:K:182:MET:HE3	2.14	0.68
2:J:249:LYS:HE2	2:J:258:ILE:CD1	2.24	0.68
2:I:317:LYS:HE3	2:I:345:ILE:CG1	2.24	0.68
1:B:529:LEU:N	1:B:529:LEU:HD23	1.92	0.68
1:D:417:ASP:C	1:D:419:TRP:H	1.96	0.68
2:I:197:LYS:HE2	2:I:275:ASP:N	2.08	0.68
1:B:1388:THR:HG22	1:B:1388:THR:O	1.94	0.68
1:C:454:PHE:CD2	1:C:648:GLU:HB2	2.28	0.68
1:D:465:LEU:HD12	1:D:465:LEU:C	2.12	0.68
1:C:985:TYR:CE1	1:C:1207:VAL:HG13	2.28	0.68
1:F:309:THR:HB	1:F:314:LYS:HE3	1.74	0.68
1:A:1121:ASP:OD2	1:A:1124:LEU:HB2	1.92	0.68
1:E:447:LEU:HD12	1:E:447:LEU:C	2.14	0.68
1:E:447:LEU:CD1	1:E:451:GLN:HG3	2.23	0.68
1:D:182:MET:CE	1:D:217:PRO:C	2.62	0.68
1:B:731:SER:O	1:B:735:VAL:HG23	1.93	0.68
1:B:1447:TRP:CE2	1:B:1451:VAL:HG22	2.28	0.68
1:F:1112:THR:O	2:I:112:GLN:NE2	2.19	0.68
1:E:454:PHE:CD2	1:E:648:GLU:HB2	2.28	0.68
2:K:321:ARG:HB2	2:K:351:GLU:CA	2.23	0.68
1:E:505:GLN:HE21	1:E:1001:VAL:H	1.33	0.68
1:F:731:SER:O	1:F:735:VAL:HG23	1.93	0.68
2:G:34:ARG:HG3	2:G:125:LYS:HE2	1.73	0.68
1:C:59:VAL:HG21	1:C:105:TYR:CE2	2.27	0.68
1:A:732:ARG:H	1:A:747:SER:CB	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1442:GLU:OE2	2:H:375:THR:CA	2.42	0.68
2:I:71:LEU:HD21	2:I:76:ARG:O	1.93	0.68
2:L:241:GLY:N	2:L:443:ILE:HG23	2.07	0.68
2:H:152:VAL:CG1	2:H:175:VAL:HA	2.12	0.68
2:L:148:LEU:HB3	2:L:234:VAL:CG2	2.24	0.68
2:K:148:LEU:HB3	2:K:234:VAL:CG2	2.24	0.68
2:H:148:LEU:HB3	2:H:234:VAL:HG21	1.75	0.68
1:D:515:ARG:CD	1:D:1367:TYR:HE1	2.04	0.68
1:E:122:ASN:OD1	1:E:125:ARG:NH1	2.25	0.68
1:A:413:LEU:O	1:A:414:LYS:CD	2.40	0.68
1:A:461:MET:HE1	1:A:465:LEU:HD23	1.76	0.68
2:I:478:VAL:HG23	2:I:479:ALA:H	1.56	0.68
1:D:1059:ASN:HD22	1:D:1059:ASN:N	1.91	0.68
1:E:1019:ASP:OD2	1:E:1204:ARG:HB2	1.93	0.68
1:D:1090:PHE:N	1:D:1090:PHE:CD1	2.60	0.68
1:A:896:PRO:HB3	1:C:1227:GLU:N	2.08	0.68
1:C:1221:PRO:HG2	1:C:1229:MET:CE	2.23	0.68
1:A:1227:GLU:N	1:E:896:PRO:HB3	2.08	0.68
1:B:732:ARG:H	1:B:747:SER:HB3	1.57	0.68
1:B:783:LYS:CE	2:G:57:VAL:CG1	2.36	0.68
2:G:146:LEU:HD23	2:G:147:GLY:N	2.09	0.68
1:C:52:GLN:HE22	1:C:71:LEU:HB2	1.59	0.68
1:E:913:GLY:HA2	1:E:1349:ARG:HD3	1.76	0.68
2:J:90:PHE:HB3	2:J:93:ILE:HG21	1.76	0.68
2:I:249:LYS:HE2	2:I:258:ILE:CD1	2.24	0.68
2:G:322:ARG:HD2	2:G:326:ASN:HD21	1.58	0.68
2:L:249:LYS:HE2	2:L:258:ILE:CD1	2.24	0.68
1:A:240:ASN:HD21	1:A:327:TRP:HA	1.58	0.68
2:I:148:LEU:HB3	2:I:234:VAL:HG21	1.75	0.68
1:E:102:TYR:CD2	1:E:144:PHE:CE1	2.82	0.68
1:C:426:LEU:H	1:C:426:LEU:HD23	1.59	0.68
1:B:122:ASN:OD1	1:B:125:ARG:NH1	2.26	0.68
1:E:414:LYS:HB3	1:E:415:PRO:HD3	1.76	0.68
1:B:753:GLY:O	1:B:754:ILE:C	2.25	0.68
1:E:9:ILE:HG13	1:E:361:GLY:O	1.93	0.68
1:B:1348:VAL:O	1:B:1348:VAL:HG13	1.91	0.68
1:C:289:ARG:NH2	1:C:532:ILE:O	2.27	0.68
1:D:442:MET:HG3	1:D:673:GLU:OE2	1.93	0.68
2:G:165:GLU:OE2	2:G:458:ARG:HA	1.92	0.68
2:G:469:LYS:HZ3	2:G:476:VAL:HA	1.58	0.68
2:G:68:TRP:CZ3	2:G:84:SER:HB3	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:180:ASP:O	2:J:182:MET:HE1	1.93	0.68
2:I:319:LEU:CB	2:I:345:ILE:HD11	2.23	0.68
2:I:449:LEU:CD1	2:I:451:VAL:HG12	2.22	0.68
2:L:448:SER:H	2:L:452:TRP:HZ3	1.42	0.68
2:L:165:GLU:OE2	2:L:458:ARG:HA	1.92	0.68
2:H:148:LEU:HB3	2:H:234:VAL:CG2	2.24	0.68
1:D:826:ARG:HG2	1:D:1046:GLU:OE2	1.93	0.68
1:E:310:PRO:CG	1:E:404:ARG:NH2	2.56	0.68
2:G:197:LYS:HG2	2:G:273:LEU:HD12	1.73	0.68
1:F:1054:GLN:O	1:F:1057:THR:N	2.26	0.68
1:F:107:TRP:N	1:F:107:TRP:CD1	2.59	0.68
1:C:447:LEU:C	1:C:447:LEU:HD12	2.14	0.68
1:A:1227:GLU:HG3	1:E:902:ASN:ND2	2.07	0.68
2:L:317:LYS:HE3	2:L:345:ILE:CG1	2.24	0.68
1:C:1438:ARG:HB3	2:J:375:THR:CA	2.14	0.68
1:F:1114:PRO:O	2:I:112:GLN:CA	2.41	0.68
1:E:1415:ILE:HG21	1:E:1421:GLU:HB2	1.75	0.68
2:G:152:VAL:HG13	2:G:175:VAL:CA	2.15	0.68
2:H:317:LYS:HE3	2:H:345:ILE:CG1	2.24	0.68
2:G:180:ASP:O	2:G:182:MET:HE1	1.93	0.68
2:L:96:ARG:HD3	2:L:195:LEU:HA	1.75	0.68
2:H:146:LEU:HD23	2:H:147:GLY:N	2.09	0.68
2:I:148:LEU:HB3	2:I:234:VAL:CG2	2.24	0.68
1:E:387:PRO:HD3	1:E:1344:GLU:CD	2.15	0.68
1:D:295:LYS:HZ3	1:D:299:VAL:HG12	1.58	0.68
1:A:426:LEU:HD23	1:A:426:LEU:H	1.59	0.68
1:E:1412:PHE:HA	1:E:1456:GLN:O	1.94	0.68
1:B:454:PHE:HE2	1:B:647:ALA:HB3	1.58	0.68
1:C:1276:LEU:HD12	1:C:1277:GLY:N	2.08	0.68
1:E:661:VAL:HG12	1:E:661:VAL:O	1.94	0.68
1:E:358:THR:HB	1:E:360:ASP:OD1	1.92	0.68
1:C:172:LEU:HG	1:C:172:LEU:O	1.94	0.68
1:B:901:ASP:CG	1:F:1228:LYS:HD3	2.15	0.68
1:B:1114:PRO:O	2:G:112:GLN:CA	2.41	0.68
2:G:96:ARG:HA	2:G:125:LYS:HD2	1.75	0.68
2:I:97:ILE:HD11	2:I:450:VAL:HG11	1.76	0.68
2:G:290:LYS:HD3	2:G:393:ASP:OD2	1.94	0.68
2:L:68:TRP:CZ3	2:L:84:SER:HB3	2.29	0.68
2:L:97:ILE:HD11	2:L:450:VAL:HG11	1.76	0.68
2:H:71:LEU:HD21	2:H:76:ARG:O	1.93	0.68
1:E:1458:VAL:HG13	1:E:1459:PRO:HD2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:522:LEU:CD2	1:D:705:LEU:HD21	2.24	0.68
2:J:148:LEU:HB3	2:J:234:VAL:CG2	2.24	0.68
1:D:1076:GLY:HA3	1:D:1145:GLU:CG	2.17	0.68
1:B:417:ASP:C	1:B:419:TRP:H	1.96	0.68
1:D:236:THR:CG2	1:D:328:ASP:N	2.52	0.68
1:B:602:THR:C	1:B:640:THR:HG22	2.14	0.68
2:K:100:GLN:CB	2:K:105:GLU:HG2	2.22	0.68
1:B:250:ARG:O	1:B:531:ASN:ND2	2.27	0.68
1:F:250:ARG:O	1:F:531:ASN:ND2	2.27	0.68
1:D:122:ASN:OD1	1:D:125:ARG:NH1	2.26	0.68
1:C:208:HIS:CD2	1:C:209:GLN:O	2.46	0.68
1:E:1362:SER:HA	1:E:1380:GLY:HA3	1.74	0.68
1:B:826:ARG:HG2	1:B:1046:GLU:OE2	1.93	0.68
2:L:319:LEU:CB	2:L:345:ILE:HD11	2.23	0.68
2:J:321:ARG:HB2	2:J:351:GLU:CA	2.23	0.68
1:D:1114:PRO:O	2:H:112:GLN:CA	2.41	0.68
1:A:248:GLU:HA	1:A:251:MET:CG	2.22	0.68
1:F:1170:GLN:CG	1:F:1170:GLN:O	2.39	0.68
1:A:52:GLN:HE22	1:A:71:LEU:HB2	1.59	0.68
2:K:68:TRP:CZ3	2:K:84:SER:HB3	2.29	0.68
2:H:322:ARG:CD	2:H:349:ALA:HB1	2.24	0.68
2:J:71:LEU:HD21	2:J:76:ARG:O	1.93	0.68
2:J:97:ILE:HD11	2:J:450:VAL:HG11	1.76	0.68
2:J:371:VAL:CG2	2:J:386:SER:HB3	2.24	0.68
2:H:451:VAL:HA	2:H:454:ILE:HG22	1.75	0.68
1:A:1458:VAL:HG13	1:A:1459:PRO:HD2	1.76	0.68
1:C:1338:ALA:HB3	1:C:1357:VAL:HG22	1.74	0.68
2:K:197:LYS:HE2	2:K:275:ASP:N	2.08	0.68
1:E:313:HIS:O	1:E:317:ILE:HG13	1.93	0.68
1:E:461:MET:HE1	1:E:465:LEU:HD23	1.75	0.68
1:A:506:VAL:HG11	1:A:980:LEU:HD22	1.76	0.68
1:F:211:TYR:HD1	1:F:212:SER:H	1.42	0.68
1:C:777:GLY:O	1:C:788:HIS:HE1	1.77	0.67
2:I:322:ARG:CD	2:I:349:ALA:HB1	2.24	0.67
2:G:317:LYS:HE3	2:G:345:ILE:CG1	2.24	0.67
2:G:148:LEU:HB3	2:G:234:VAL:CG2	2.24	0.67
2:L:96:ARG:HA	2:L:125:LYS:HD2	1.75	0.67
2:H:449:LEU:CD1	2:H:451:VAL:HG12	2.22	0.67
2:L:148:LEU:HB3	2:L:234:VAL:HG21	1.75	0.67
2:L:418:THR:HG21	2:L:422:THR:HG23	1.74	0.67
1:B:522:LEU:CD2	1:B:705:LEU:HD21	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:113:ASN:HD22	1:B:114:VAL:N	1.91	0.67
1:F:386:GLY:O	1:F:389:GLU:HG3	1.93	0.67
2:H:100:GLN:CB	2:H:105:GLU:HG2	2.22	0.67
1:B:768:GLU:HG2	1:B:769:GLU:N	2.09	0.67
1:C:414:LYS:HB3	1:C:415:PRO:HD3	1.76	0.67
1:A:918:THR:HG22	1:A:920:GLU:H	1.59	0.67
1:A:461:MET:CE	1:A:465:LEU:HD23	2.24	0.67
1:A:208:HIS:CD2	1:A:209:GLN:O	2.46	0.67
1:E:172:LEU:O	1:E:172:LEU:HG	1.94	0.67
1:E:479:MET:HG3	1:E:1104:MET:HE3	1.76	0.67
1:A:1394:VAL:HG11	1:A:1401:LEU:HD22	1.76	0.67
1:F:1114:PRO:HA	2:I:112:GLN:C	1.84	0.67
2:G:77:LEU:HA	2:G:127:ILE:HD11	1.75	0.67
2:J:181:ARG:CD	2:J:187:VAL:HG11	2.25	0.67
1:E:732:ARG:H	1:E:747:SER:CB	2.07	0.67
2:H:321:ARG:HB2	2:H:351:GLU:CA	2.23	0.67
2:I:96:ARG:HD3	2:I:195:LEU:HA	1.75	0.67
2:H:97:ILE:HD11	2:H:450:VAL:HG11	1.76	0.67
1:C:387:PRO:HD3	1:C:1344:GLU:CD	2.15	0.67
1:D:250:ARG:O	1:D:531:ASN:ND2	2.27	0.67
1:E:426:LEU:HD23	1:E:426:LEU:H	1.59	0.67
1:F:843:VAL:CG1	1:F:844:GLU:N	2.58	0.67
1:B:266:VAL:HG12	1:B:279:THR:HG23	1.76	0.67
1:B:985:TYR:CE1	1:B:1207:VAL:HG13	2.27	0.67
1:C:1466:LEU:O	1:C:1467:GLU:C	2.33	0.67
1:D:309:THR:HB	1:D:314:LYS:HE3	1.74	0.67
1:B:732:ARG:H	1:B:747:SER:CB	2.07	0.67
1:D:782:ARG:HG2	2:H:53:PRO:HD2	0.77	0.67
1:E:1394:VAL:HG11	1:E:1401:LEU:HD22	1.76	0.67
2:K:317:LYS:HE3	2:K:345:ILE:CG1	2.24	0.67
1:F:253:HIS:N	1:F:260:MET:HE1	2.07	0.67
1:D:732:ARG:H	1:D:747:SER:CB	2.07	0.67
2:G:175:VAL:CG1	2:G:214:TYR:HA	2.23	0.67
2:G:448:SER:H	2:G:452:TRP:HZ3	1.42	0.67
2:K:249:LYS:HE2	2:K:258:ILE:CD1	2.24	0.67
1:C:732:ARG:H	1:C:747:SER:CB	2.07	0.67
2:K:153:ILE:HG23	2:K:238:VAL:HA	1.76	0.67
2:K:71:LEU:HD21	2:K:76:ARG:O	1.93	0.67
2:L:451:VAL:HA	2:L:454:ILE:HG22	1.75	0.67
2:H:153:ILE:HG23	2:H:238:VAL:HA	1.76	0.67
1:F:139:VAL:CG1	1:F:143:GLN:HB2	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:299:VAL:O	1:C:299:VAL:CG1	2.43	0.67
1:F:603:HIS:CA	1:F:640:THR:CG2	2.71	0.67
1:C:824:GLN:NE2	1:C:824:GLN:CA	2.57	0.67
1:C:4:GLY:HA3	1:C:207:TYR:CZ	2.29	0.67
1:A:9:ILE:HG13	1:A:361:GLY:O	1.93	0.67
1:D:107:TRP:N	1:D:107:TRP:CD1	2.59	0.67
1:A:8:ALA:HA	1:A:362:LEU:HD12	1.75	0.67
1:A:1105:VAL:HG13	1:A:1107:GLN:HG3	1.76	0.67
1:C:1220:ARG:N	1:C:1221:PRO:HD2	2.10	0.67
1:A:1220:ARG:N	1:A:1221:PRO:HD2	2.10	0.67
2:L:322:ARG:CD	2:L:349:ALA:HB1	2.24	0.67
1:A:1438:ARG:HB3	2:L:375:THR:CA	2.14	0.67
2:J:290:LYS:HD3	2:J:393:ASP:OD2	1.94	0.67
1:E:359:THR:HG23	1:E:378:GLN:O	1.94	0.67
1:A:512:ASP:OD2	1:A:1367:TYR:OH	2.13	0.67
2:K:122:SER:HA	2:K:125:LYS:HE3	1.75	0.67
2:K:165:GLU:HB3	2:K:169:LYS:HZ3	1.59	0.67
2:H:290:LYS:HD3	2:H:393:ASP:OD2	1.94	0.67
2:J:96:ARG:HD3	2:J:195:LEU:HA	1.75	0.67
1:F:1442:GLU:OE2	2:G:375:THR:CA	2.42	0.67
2:L:77:LEU:HA	2:L:127:ILE:HD11	1.75	0.67
2:L:146:LEU:HD23	2:L:147:GLY:N	2.09	0.67
2:L:44:ALA:HA	2:L:69:LEU:CD1	2.22	0.67
2:H:96:ARG:HD3	2:H:195:LEU:HA	1.75	0.67
1:E:1194:GLU:HB2	1:F:115:ASP:OD2	1.95	0.67
1:A:414:LYS:HB3	1:A:415:PRO:HD3	1.76	0.67
1:A:4:GLY:HA3	1:A:207:TYR:CZ	2.29	0.67
1:B:478:SER:O	1:B:1106:ARG:NH1	2.28	0.67
1:E:152:ARG:O	1:E:156:GLU:HB2	1.94	0.67
1:E:777:GLY:O	1:E:788:HIS:HE1	1.77	0.67
1:C:896:PRO:HB3	1:E:1227:GLU:N	2.08	0.67
1:C:1394:VAL:HG11	1:C:1401:LEU:HD22	1.76	0.67
2:K:331:GLN:O	2:K:334:VAL:HG23	1.95	0.67
2:K:322:ARG:CD	2:K:349:ALA:HB1	2.24	0.67
1:E:289:ARG:NH2	1:E:532:ILE:O	2.27	0.67
1:B:447:LEU:HD12	1:B:451:GLN:CG	2.23	0.67
1:B:442:MET:HG3	1:B:673:GLU:OE2	1.93	0.67
2:H:249:LYS:HE2	2:H:258:ILE:CD1	2.24	0.67
2:H:259:VAL:HG21	2:H:264:TYR:CB	2.14	0.67
1:C:515:ARG:HD2	1:C:1367:TYR:HE1	1.46	0.67
2:I:96:ARG:HA	2:I:125:LYS:HD2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:249:LYS:HE2	2:G:258:ILE:CD1	2.24	0.67
1:A:139:VAL:HG11	1:A:143:GLN:HB3	1.77	0.67
2:I:371:VAL:CG2	2:I:386:SER:HB3	2.24	0.67
2:L:371:VAL:CG2	2:L:386:SER:HB3	2.24	0.67
1:A:299:VAL:O	1:A:299:VAL:CG1	2.43	0.67
1:D:838:VAL:CG1	1:D:839:PRO:CD	2.73	0.67
1:D:559:ARG:HD2	1:D:605:ILE:CD1	2.25	0.67
1:C:1388:THR:O	1:C:1388:THR:HG22	1.93	0.67
1:E:461:MET:CE	1:E:465:LEU:HD23	2.24	0.67
1:E:37:ASP:OD1	1:E:37:ASP:C	2.33	0.67
1:E:1466:LEU:O	1:E:1467:GLU:C	2.33	0.67
1:A:499:PHE:HE2	1:A:742:MET:HE1	1.58	0.67
2:L:290:LYS:HD3	2:L:393:ASP:OD2	1.94	0.67
2:J:331:GLN:O	2:J:334:VAL:HG23	1.95	0.67
1:C:359:THR:HG23	1:C:378:GLN:O	1.95	0.67
1:D:1442:GLU:OE2	2:I:375:THR:CA	2.42	0.67
2:I:68:TRP:CZ3	2:I:84:SER:HB3	2.29	0.67
1:C:1458:VAL:HG13	1:C:1459:PRO:HD2	1.76	0.67
1:A:960:THR:CG2	1:A:963:VAL:CG2	2.73	0.67
1:C:1194:GLU:HB2	1:D:115:ASP:OD2	1.95	0.67
1:D:734:LEU:HD12	1:D:738:HIS:CD2	2.25	0.67
1:B:1058:LEU:O	1:B:1058:LEU:HD22	1.95	0.67
1:A:1466:LEU:O	1:A:1467:GLU:C	2.33	0.67
1:C:1144:GLU:O	1:C:1144:GLU:HG3	1.95	0.67
1:C:1105:VAL:HG13	1:C:1107:GLN:HG3	1.76	0.67
1:A:289:ARG:NH2	1:A:532:ILE:O	2.27	0.67
1:C:746:ILE:HG22	1:C:747:SER:N	2.09	0.67
2:I:290:LYS:HD3	2:I:393:ASP:OD2	1.94	0.67
2:K:220:VAL:CG2	8:K:484:FAD:N1A	2.56	0.67
2:J:471:LYS:CE	2:J:471:LYS:HA	2.23	0.67
2:G:331:GLN:O	2:G:334:VAL:HG23	1.95	0.67
1:F:999:LYS:HG2	1:F:1022:LEU:HD23	1.72	0.67
2:H:122:SER:HA	2:H:125:LYS:HE3	1.75	0.67
2:H:165:GLU:HB3	2:H:169:LYS:HZ3	1.59	0.67
2:H:68:TRP:CZ3	2:H:84:SER:HB3	2.29	0.67
2:I:181:ARG:HD3	2:I:187:VAL:CB	2.25	0.67
2:K:148:LEU:HB3	2:K:234:VAL:HG21	1.75	0.67
1:B:139:VAL:CG1	1:B:143:GLN:HB2	2.25	0.67
2:G:371:VAL:CG2	2:G:386:SER:HB3	2.24	0.67
1:D:302:ALA:CA	1:D:347:ARG:HH12	2.08	0.67
1:D:266:VAL:HG12	1:D:279:THR:HG23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:461:MET:CE	1:C:465:LEU:HD23	2.24	0.67
1:A:661:VAL:HG12	1:A:661:VAL:O	1.94	0.67
1:D:478:SER:O	1:D:1106:ARG:NH1	2.28	0.67
1:A:447:LEU:C	1:A:447:LEU:HD12	2.14	0.67
1:E:452:GLN:HG3	1:E:765:ALA:HB2	1.77	0.67
1:F:826:ARG:HG2	1:F:1046:GLU:OE2	1.93	0.67
2:G:71:LEU:HD21	2:G:76:ARG:O	1.93	0.67
2:K:146:LEU:HD23	2:K:147:GLY:N	2.09	0.67
2:J:448:SER:H	2:J:452:TRP:HZ3	1.42	0.67
1:C:139:VAL:HG11	1:C:143:GLN:HB3	1.77	0.67
2:G:368:HIS:ND1	2:G:387:GLU:HG3	2.09	0.67
2:H:300:THR:HA	8:H:484:FAD:HM73	1.77	0.67
2:I:181:ARG:CD	2:I:187:VAL:HG11	2.25	0.67
1:D:113:ASN:HD22	1:D:114:VAL:N	1.92	0.67
1:A:1317:THR:HG21	1:A:1358:GLU:OE1	1.92	0.67
1:D:693:MET:HE3	1:D:693:MET:HA	1.76	0.67
1:D:843:VAL:CG1	1:D:844:GLU:N	2.58	0.67
1:B:666:VAL:CG1	1:B:667:ASN:N	2.58	0.67
1:E:850:ARG:CG	1:E:850:ARG:HH11	2.08	0.67
1:B:1102:CYS:SG	6:B:2476:F3S:S2	2.93	0.67
2:L:410:PHE:O	2:L:413:PRO:HD2	1.95	0.67
1:B:211:TYR:HD1	1:B:212:SER:H	1.42	0.67
1:B:98:LEU:O	1:B:101:GLY:N	2.25	0.67
1:F:478:SER:O	1:F:1106:ARG:NH1	2.28	0.67
1:C:782:ARG:CB	2:K:53:PRO:HD2	2.19	0.67
2:J:295:LEU:CD2	2:J:319:LEU:HB3	2.25	0.67
1:F:782:ARG:N	2:I:52:VAL:HB	2.07	0.67
2:G:451:VAL:O	2:G:454:ILE:HG23	1.95	0.67
1:C:515:ARG:CD	1:C:1367:TYR:HE1	1.96	0.67
1:E:746:ILE:HG22	1:E:747:SER:N	2.09	0.67
2:K:448:SER:H	2:K:452:TRP:HZ3	1.42	0.67
2:K:97:ILE:HD11	2:K:450:VAL:HG11	1.76	0.67
2:H:331:GLN:O	2:H:334:VAL:HG23	1.95	0.67
2:I:300:THR:HA	8:I:484:FAD:HM73	1.77	0.67
2:J:300:THR:HA	8:J:484:FAD:HM73	1.77	0.67
2:H:448:SER:H	2:H:452:TRP:HZ3	1.42	0.67
1:A:387:PRO:HD3	1:A:1344:GLU:CD	2.14	0.67
1:B:386:GLY:O	1:B:389:GLU:HG3	1.93	0.67
1:B:838:VAL:CG1	1:B:839:PRO:CD	2.73	0.67
1:F:122:ASN:OD1	1:F:125:ARG:NH1	2.26	0.67
1:C:454:PHE:HE2	1:C:647:ALA:HB3	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:850:ARG:CG	1:C:850:ARG:HH11	2.08	0.67
2:J:410:PHE:O	2:J:413:PRO:HD2	1.95	0.67
1:E:336:THR:OG1	1:E:337:ASP:O	2.13	0.67
1:E:1105:VAL:HG13	1:E:1107:GLN:HG3	1.76	0.67
1:B:746:ILE:HD11	1:B:1186:ARG:NH2	2.10	0.67
1:C:1415:ILE:HG21	1:C:1421:GLU:HB2	1.75	0.67
1:D:253:HIS:N	1:D:260:MET:HE1	2.07	0.67
2:G:220:VAL:CG2	8:G:484:FAD:N6A	2.55	0.67
1:C:746:ILE:O	1:C:747:SER:O	2.13	0.67
2:J:181:ARG:HD3	2:J:187:VAL:CB	2.25	0.67
2:J:68:TRP:CZ3	2:J:84:SER:HB3	2.29	0.67
2:L:153:ILE:HG23	2:L:238:VAL:HA	1.76	0.67
2:L:49:GLN:NE2	2:L:69:LEU:HG	2.10	0.67
1:F:522:LEU:CD2	1:F:705:LEU:HD21	2.24	0.67
2:H:220:VAL:CG2	8:H:484:FAD:N1A	2.56	0.67
2:H:44:ALA:HA	2:H:69:LEU:CD1	2.22	0.67
2:I:418:THR:HG21	2:I:422:THR:HG23	1.74	0.67
1:D:139:VAL:CG1	1:D:143:GLN:HB2	2.25	0.67
1:F:960:THR:HG22	1:F:963:VAL:HG23	1.77	0.67
1:F:768:GLU:HG2	1:F:769:GLU:N	2.09	0.67
1:A:454:PHE:HE2	1:A:647:ALA:HB3	1.58	0.67
1:E:918:THR:HG22	1:E:920:GLU:H	1.59	0.67
1:A:1297:GLY:O	1:A:1328:LEU:HA	1.95	0.67
1:A:902:ASN:ND2	1:C:1227:GLU:HG3	2.07	0.66
1:D:1228:LYS:HD3	1:F:901:ASP:CG	2.15	0.66
1:E:454:PHE:CE2	1:E:647:ALA:HB3	2.31	0.66
2:K:295:LEU:CD2	2:K:319:LEU:HB3	2.25	0.66
2:G:96:ARG:HD3	2:G:195:LEU:HA	1.75	0.66
2:G:244:LYS:CE	2:G:404:GLU:HB3	2.24	0.66
2:G:148:LEU:HB3	2:G:234:VAL:HG21	1.75	0.66
2:L:186:LEU:CD2	2:L:200:VAL:HB	2.25	0.66
2:L:181:ARG:HD3	2:L:187:VAL:CB	2.25	0.66
2:I:180:ASP:O	2:I:182:MET:HE1	1.95	0.66
1:B:236:THR:CG2	1:B:328:ASP:N	2.52	0.66
1:F:950:THR:CG2	1:F:951:GLU:H	2.07	0.66
1:D:603:HIS:CA	1:D:640:THR:CG2	2.71	0.66
1:C:1311:THR:HG23	1:C:1312:SER:H	1.60	0.66
1:B:843:VAL:CG1	1:B:844:GLU:N	2.58	0.66
1:E:4:GLY:HA3	1:E:207:TYR:CZ	2.29	0.66
1:C:918:THR:HG22	1:C:920:GLU:H	1.59	0.66
1:A:1412:PHE:HA	1:A:1456:GLN:O	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:454:PHE:HE2	1:D:647:ALA:CB	2.09	0.66
1:E:1144:GLU:HG3	1:E:1144:GLU:O	1.95	0.66
2:J:322:ARG:CD	2:J:349:ALA:HB1	2.24	0.66
1:F:782:ARG:HH21	2:I:51:GLY:CA	0.99	0.66
1:C:248:GLU:HA	1:C:251:MET:CG	2.22	0.66
1:F:732:ARG:H	1:F:747:SER:CB	2.08	0.66
1:E:59:VAL:HG21	1:E:105:TYR:CE2	2.27	0.66
2:K:181:ARG:CD	2:K:187:VAL:HG11	2.25	0.66
2:J:153:ILE:HG23	2:J:238:VAL:HA	1.76	0.66
2:H:220:VAL:CG2	8:H:484:FAD:N6A	2.55	0.66
2:L:242:VAL:CG1	2:L:403:PRO:HD3	2.21	0.66
1:D:960:THR:HG22	1:D:963:VAL:HG23	1.77	0.66
1:B:734:LEU:HD12	1:B:738:HIS:CD2	2.25	0.66
1:D:909:GLN:NE2	1:D:929:GLU:OE1	2.28	0.66
1:D:289:ARG:NH2	1:D:532:ILE:O	2.28	0.66
2:I:410:PHE:O	2:I:413:PRO:HD2	1.95	0.66
1:A:37:ASP:OD1	1:A:37:ASP:C	2.33	0.66
1:A:1227:GLU:OE2	1:E:902:ASN:ND2	2.28	0.66
1:E:1221:PRO:HD2	1:E:1229:MET:HE1	1.78	0.66
2:L:295:LEU:CD2	2:L:319:LEU:HB3	2.25	0.66
2:L:368:HIS:ND1	2:L:387:GLU:HG3	2.10	0.66
1:E:454:PHE:HE2	1:E:647:ALA:HB3	1.58	0.66
2:K:290:LYS:HD3	2:K:393:ASP:OD2	1.94	0.66
2:K:368:HIS:ND1	2:K:387:GLU:HG3	2.09	0.66
1:C:251:MET:HB2	1:C:533:LEU:HD12	1.78	0.66
2:G:153:ILE:HG23	2:G:238:VAL:HA	1.76	0.66
1:A:913:GLY:HA2	1:A:1349:ARG:HD3	1.76	0.66
2:K:451:VAL:O	2:K:454:ILE:HG23	1.95	0.66
2:I:186:LEU:CD2	2:I:200:VAL:HB	2.25	0.66
2:I:451:VAL:O	2:I:454:ILE:HG23	1.95	0.66
2:H:371:VAL:CG2	2:H:386:SER:HB3	2.24	0.66
1:E:381:GLU:CD	1:E:402:ARG:NH1	2.49	0.66
1:F:515:ARG:HD2	1:F:1367:TYR:CZ	2.31	0.66
1:C:960:THR:CG2	1:C:963:VAL:CG2	2.73	0.66
2:K:418:THR:HG23	2:K:422:THR:HG23	1.77	0.66
1:B:572:THR:HG21	1:B:615:ARG:HB3	1.78	0.66
1:C:728:ILE:HD12	1:C:1047:MET:HE3	1.76	0.66
1:D:1102:CYS:SG	6:D:2476:F3S:S2	2.93	0.66
1:E:506:VAL:HG11	1:E:980:LEU:HD22	1.75	0.66
2:G:90:PHE:HB3	2:G:93:ILE:HG21	1.76	0.66
2:I:290:LYS:HG2	2:I:291:HIS:H	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:331:GLN:O	2:I:334:VAL:HG23	1.95	0.66
2:J:451:VAL:O	2:J:454:ILE:HG23	1.95	0.66
2:L:300:THR:HA	8:L:484:FAD:HM73	1.77	0.66
2:I:244:LYS:CE	2:I:404:GLU:HB3	2.24	0.66
2:G:418:THR:HG23	2:G:422:THR:HG23	1.77	0.66
2:L:418:THR:HG23	2:L:422:THR:HG23	1.77	0.66
1:E:960:THR:CG2	1:E:963:VAL:CG2	2.73	0.66
1:F:417:ASP:C	1:F:419:TRP:H	1.96	0.66
1:B:693:MET:HE3	1:B:693:MET:HA	1.78	0.66
1:B:559:ARG:HD2	1:B:605:ILE:HD13	1.78	0.66
1:F:302:ALA:CA	1:F:347:ARG:HH12	2.08	0.66
1:A:354:ARG:NH2	1:A:1292:ALA:O	2.29	0.66
1:A:62:ILE:HG22	1:A:62:ILE:O	1.96	0.66
1:A:172:LEU:HG	1:A:172:LEU:O	1.94	0.66
1:A:902:ASN:ND2	1:C:1227:GLU:OE2	2.28	0.66
1:F:781:PHE:CE2	2:I:57:VAL:HG21	2.31	0.66
1:F:746:ILE:HD11	1:F:1186:ARG:NH2	2.10	0.66
2:G:186:LEU:CD2	2:G:200:VAL:HB	2.25	0.66
2:J:244:LYS:CE	2:J:404:GLU:HB3	2.24	0.66
1:A:731:SER:HA	1:A:748:GLY:N	2.11	0.66
2:J:49:GLN:NE2	2:J:69:LEU:HG	2.10	0.66
2:L:244:LYS:CE	2:L:404:GLU:HB3	2.25	0.66
1:D:496:HIS:ND1	1:D:654:TYR:HD1	1.93	0.66
2:I:242:VAL:CG1	2:I:403:PRO:HD3	2.21	0.66
1:D:113:ASN:C	1:D:113:ASN:ND2	2.49	0.66
1:A:1194:GLU:HB2	1:B:115:ASP:OD2	1.95	0.66
1:C:102:TYR:CD2	1:C:144:PHE:CE1	2.82	0.66
1:B:908:LYS:HD2	1:B:921:TYR:CD1	2.31	0.66
1:F:559:ARG:HD2	1:F:605:ILE:CD1	2.25	0.66
1:A:317:ILE:HG22	1:A:321:ASN:ND2	2.11	0.66
1:C:454:PHE:CE2	1:C:647:ALA:HB3	2.31	0.66
1:A:850:ARG:HH11	1:A:850:ARG:CG	2.08	0.66
1:D:1109:HIS:ND1	1:D:1109:HIS:N	2.43	0.66
1:B:1228:LYS:HD3	1:D:901:ASP:CG	2.15	0.66
1:A:777:GLY:O	1:A:788:HIS:HE1	1.77	0.66
1:E:1220:ARG:N	1:E:1221:PRO:HD2	2.10	0.66
2:L:331:GLN:O	2:L:334:VAL:HG23	1.95	0.66
2:K:321:ARG:HH21	2:K:351:GLU:CG	2.09	0.66
1:B:253:HIS:N	1:B:260:MET:HE1	2.07	0.66
1:B:461:MET:CE	1:B:465:LEU:HD23	2.25	0.66
2:G:95:GLY:O	2:G:125:LYS:HD2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:97:ILE:HD11	2:G:450:VAL:HG11	1.76	0.66
2:K:259:VAL:HG21	2:K:264:TYR:CB	2.14	0.66
1:E:511:ILE:HG22	1:E:512:ASP:H	1.61	0.66
2:K:244:LYS:CE	2:K:404:GLU:HB3	2.24	0.66
1:E:731:SER:HA	1:E:748:GLY:N	2.11	0.66
1:E:746:ILE:O	1:E:747:SER:O	2.13	0.66
2:I:295:LEU:CD2	2:I:319:LEU:HB3	2.25	0.66
2:I:368:HIS:ND1	2:I:387:GLU:HG3	2.09	0.66
2:K:165:GLU:CD	2:K:458:ARG:HA	2.16	0.66
2:K:49:GLN:NE2	2:K:69:LEU:HG	2.10	0.66
1:C:381:GLU:CD	1:C:402:ARG:NH1	2.49	0.66
2:L:469:LYS:HZ3	2:L:476:VAL:HA	1.60	0.66
1:B:496:HIS:ND1	1:B:654:TYR:HD1	1.93	0.66
1:F:295:LYS:NZ	1:F:299:VAL:O	2.17	0.66
1:B:302:ALA:CA	1:B:347:ARG:HH12	2.08	0.66
1:D:461:MET:CE	1:D:465:LEU:HD23	2.26	0.66
1:D:1058:LEU:O	1:D:1058:LEU:HD22	1.95	0.66
1:E:62:ILE:HG22	1:E:62:ILE:O	1.96	0.66
1:F:909:GLN:NE2	1:F:929:GLU:OE1	2.28	0.66
1:A:1104:MET:C	2:J:54:PHE:CZ	2.67	0.66
1:A:902:ASN:CG	1:C:1227:GLU:CG	2.63	0.66
1:C:1230:GLN:NE2	1:C:1267:ARG:CD	2.59	0.66
2:J:290:LYS:CG	2:J:291:HIS:H	2.09	0.66
2:J:368:HIS:ND1	2:J:387:GLU:HG3	2.09	0.66
1:F:777:GLY:HA3	2:I:52:VAL:HG12	1.77	0.66
1:A:359:THR:HG23	1:A:378:GLN:O	1.94	0.66
2:K:95:GLY:O	2:K:125:LYS:HD2	1.96	0.66
2:K:96:ARG:HD3	2:K:195:LEU:HA	1.75	0.66
2:G:181:ARG:CD	2:G:187:VAL:HG11	2.25	0.66
2:I:90:PHE:HB3	2:I:93:ILE:HG21	1.76	0.66
2:L:220:VAL:CG2	8:L:484:FAD:N6A	2.55	0.66
2:H:471:LYS:HA	2:H:471:LYS:CE	2.23	0.66
2:K:371:VAL:CG2	2:K:386:SER:HB3	2.24	0.66
1:F:236:THR:CG2	1:F:328:ASP:N	2.52	0.66
1:F:389:GLU:CB	1:F:403:ASP:OD2	2.40	0.66
1:F:838:VAL:CG1	1:F:839:PRO:CD	2.73	0.66
1:F:454:PHE:HE2	1:F:647:ALA:HB3	1.58	0.66
1:E:1003:ARG:HG3	1:E:1003:ARG:HH11	1.61	0.66
2:G:410:PHE:O	2:G:413:PRO:HD2	1.95	0.66
2:H:410:PHE:O	2:H:413:PRO:HD2	1.95	0.66
1:F:289:ARG:NH2	1:F:532:ILE:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:290:LYS:CG	2:K:291:HIS:H	2.09	0.66
1:D:746:ILE:HD11	1:D:1186:ARG:NH2	2.10	0.66
1:F:461:MET:CE	1:F:465:LEU:HD23	2.25	0.66
2:G:49:GLN:OE1	2:G:49:GLN:HA	1.96	0.66
2:K:249:LYS:HG3	2:K:258:ILE:HD11	1.78	0.66
1:C:731:SER:HA	1:C:748:GLY:N	2.11	0.66
1:E:746:ILE:HG23	1:E:1182:ASP:H	1.54	0.66
2:H:290:LYS:CG	2:H:291:HIS:H	2.09	0.66
2:H:327:MET:HB2	2:H:346:TRP:HH2	1.54	0.66
2:H:244:LYS:CE	2:H:404:GLU:HB3	2.25	0.66
2:J:186:LEU:CD2	2:J:200:VAL:HB	2.25	0.66
2:G:268:SER:O	2:G:271:VAL:HG23	1.96	0.66
2:L:268:SER:O	2:L:271:VAL:HG23	1.96	0.66
2:H:167:ARG:HD3	2:H:210:ALA:O	1.96	0.66
2:H:186:LEU:CD2	2:H:200:VAL:HB	2.25	0.66
2:I:418:THR:HG23	2:I:422:THR:HG23	1.77	0.66
1:A:102:TYR:CD2	1:A:144:PHE:CE1	2.82	0.66
1:C:310:PRO:CG	1:C:404:ARG:NH2	2.56	0.66
1:D:908:LYS:HD2	1:D:921:TYR:CD1	2.31	0.66
1:C:506:VAL:HG11	1:C:980:LEU:HD22	1.75	0.66
1:C:1297:GLY:O	1:C:1328:LEU:HA	1.95	0.66
1:E:1104:MET:C	2:L:54:PHE:CZ	2.67	0.66
1:D:1263:HIS:NE2	1:F:900:GLY:HA2	2.10	0.66
1:A:1431:HIS:O	1:A:1435:THR:HG22	1.95	0.66
2:L:290:LYS:HG2	2:L:291:HIS:H	1.61	0.66
1:A:875:MET:HE1	1:A:1139:PHE:CD2	2.27	0.66
1:D:447:LEU:HD12	1:D:451:GLN:CG	2.22	0.66
2:G:165:GLU:CD	2:G:458:ARG:HA	2.16	0.66
2:K:181:ARG:HD3	2:K:187:VAL:CB	2.25	0.66
1:C:913:GLY:HA2	1:C:1349:ARG:HD3	1.76	0.66
2:K:186:LEU:CD2	2:K:200:VAL:HB	2.25	0.66
2:H:295:LEU:CD2	2:H:319:LEU:HB3	2.25	0.66
2:I:165:GLU:CD	2:I:458:ARG:HA	2.16	0.66
2:J:152:VAL:HG13	2:J:175:VAL:CA	2.15	0.66
2:J:167:ARG:HD3	2:J:210:ALA:O	1.96	0.66
2:G:295:LEU:CD2	2:G:319:LEU:HB3	2.25	0.66
2:G:322:ARG:CD	2:G:349:ALA:HB1	2.24	0.66
2:L:49:GLN:OE1	2:L:49:GLN:HA	1.96	0.66
2:L:181:ARG:CD	2:L:187:VAL:HG11	2.25	0.66
1:A:381:GLU:CD	1:A:402:ARG:NH1	2.49	0.66
1:B:704:LEU:C	1:B:706:LYS:N	2.49	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:146:LEU:HD12	1:C:146:LEU:C	2.17	0.66
1:E:1317:THR:HG21	1:E:1358:GLU:OE1	1.92	0.66
1:B:559:ARG:HD2	1:B:605:ILE:CD1	2.25	0.66
1:F:559:ARG:HD2	1:F:605:ILE:HD13	1.78	0.66
1:D:1388:THR:HG22	1:D:1388:THR:O	1.94	0.66
1:E:317:ILE:HG22	1:E:321:ASN:ND2	2.11	0.66
1:E:317:ILE:O	1:E:321:ASN:ND2	2.29	0.66
1:F:1102:CYS:SG	6:F:2476:F3S:S2	2.93	0.66
1:F:1413:GLN:HG3	1:F:1414:ARG:O	1.96	0.66
1:F:454:PHE:HE2	1:F:647:ALA:CB	2.09	0.66
1:F:1058:LEU:HD22	1:F:1058:LEU:O	1.95	0.66
1:E:1297:GLY:O	1:E:1328:LEU:HA	1.95	0.66
1:C:1431:HIS:O	1:C:1435:THR:HG22	1.95	0.66
2:J:290:LYS:HG2	2:J:291:HIS:H	1.61	0.66
1:B:780:ARG:NH2	1:B:1105:VAL:CG2	2.59	0.66
1:E:1376:LEU:N	1:E:1376:LEU:CD2	2.33	0.66
1:F:1131:THR:HB	1:F:1134:LYS:CG	2.26	0.66
2:H:249:LYS:HG3	2:H:258:ILE:HD11	1.78	0.66
1:F:1401:LEU:C	1:F:1401:LEU:CD1	2.55	0.66
2:K:175:VAL:CG1	2:K:214:TYR:HA	2.23	0.66
2:H:181:ARG:CD	2:H:187:VAL:HG11	2.25	0.66
2:I:153:ILE:HG23	2:I:238:VAL:HA	1.76	0.66
2:J:59:CYS:SG	2:J:61:VAL:HG13	2.36	0.66
2:J:44:ALA:HA	2:J:69:LEU:CD1	2.22	0.66
2:G:321:ARG:HH21	2:G:351:GLU:CG	2.09	0.66
2:L:132:TRP:HD1	2:L:202:ARG:HB2	1.60	0.66
2:L:95:GLY:O	2:L:125:LYS:HD2	1.96	0.66
1:E:102:TYR:HE2	1:E:144:PHE:CE1	2.13	0.66
2:H:197:LYS:HE2	2:H:275:ASP:N	2.07	0.66
1:A:824:GLN:CA	1:A:824:GLN:NE2	2.57	0.66
1:D:666:VAL:CG1	1:D:667:ASN:N	2.58	0.66
1:F:666:VAL:CG1	1:F:667:ASN:N	2.58	0.66
1:E:824:GLN:NE2	1:E:824:GLN:CA	2.57	0.66
1:C:1207:VAL:HG13	1:C:1208:PRO:HD2	1.77	0.66
1:B:289:ARG:NH2	1:B:532:ILE:O	2.28	0.66
1:C:62:ILE:HG22	1:C:62:ILE:O	1.96	0.66
1:D:875:MET:HE1	1:D:1139:PHE:CE2	2.31	0.65
1:A:1230:GLN:NE2	1:A:1267:ARG:CD	2.59	0.65
1:C:902:ASN:ND2	1:E:1227:GLU:OE2	2.28	0.65
1:E:1230:GLN:NE2	1:E:1267:ARG:CD	2.59	0.65
2:L:321:ARG:HH21	2:L:351:GLU:CG	2.09	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:345:ILE:CD1	2:K:345:ILE:H	2.09	0.65
2:G:165:GLU:OE1	2:G:458:ARG:HA	1.97	0.65
1:E:512:ASP:OD2	1:E:1367:TYR:OH	2.12	0.65
2:J:249:LYS:HG3	2:J:258:ILE:HD11	1.78	0.65
2:K:300:THR:HA	8:K:484:FAD:HM73	1.77	0.65
2:I:165:GLU:OE1	2:I:458:ARG:HA	1.96	0.65
2:I:59:CYS:SG	2:I:61:VAL:HG13	2.37	0.65
2:J:337:ALA:O	2:J:340:GLU:HB2	1.97	0.65
2:I:301:ALA:HA	2:I:304:CYS:SG	2.36	0.65
2:H:49:GLN:NE2	2:H:69:LEU:HG	2.10	0.65
1:F:1164:ARG:HD2	1:F:1166:ASP:OD1	1.96	0.65
1:B:909:GLN:NE2	1:B:929:GLU:OE1	2.28	0.65
1:C:354:ARG:NH2	1:C:1292:ALA:O	2.29	0.65
1:C:661:VAL:O	1:C:661:VAL:HG12	1.94	0.65
1:A:1144:GLU:HG3	1:A:1144:GLU:O	1.95	0.65
1:D:499:PHE:HE1	1:D:742:MET:HE1	1.60	0.65
1:A:781:PHE:HE2	2:J:57:VAL:HG11	1.61	0.65
1:B:452:GLN:HG3	1:B:765:ALA:HB2	1.78	0.65
1:D:450:ARG:O	1:D:451:GLN:C	2.35	0.65
2:H:304:CYS:HA	2:H:307:THR:HG22	1.78	0.65
1:A:746:ILE:O	1:A:747:SER:O	2.13	0.65
1:D:1401:LEU:N	1:D:1402:PRO:CD	2.59	0.65
2:H:290:LYS:HG2	2:H:291:HIS:H	1.61	0.65
2:I:44:ALA:HA	2:I:69:LEU:CD1	2.22	0.65
2:I:448:SER:H	2:I:452:TRP:HZ3	1.42	0.65
2:I:49:GLN:NE2	2:I:69:LEU:HG	2.10	0.65
2:J:207:LEU:CG	2:J:212:VAL:HG11	2.26	0.65
2:J:220:VAL:CG2	8:J:484:FAD:N1A	2.56	0.65
1:F:1438:ARG:NE	2:G:376:GLY:C	2.28	0.65
2:G:290:LYS:CG	2:G:291:HIS:H	2.09	0.65
2:L:451:VAL:O	2:L:454:ILE:HG23	1.95	0.65
2:L:304:CYS:HA	2:L:307:THR:HG22	1.78	0.65
2:H:156:GLY:O	2:H:160:LEU:HD12	1.97	0.65
2:H:451:VAL:O	2:H:454:ILE:HG23	1.95	0.65
2:H:418:THR:HG23	2:H:422:THR:HG23	1.77	0.65
1:D:52:GLN:HE22	1:D:71:LEU:CB	2.09	0.65
1:E:420:VAL:HA	1:E:540:THR:HG21	1.78	0.65
1:C:317:ILE:O	1:C:321:ASN:ND2	2.29	0.65
1:D:1164:ARG:HD2	1:D:1166:ASP:OD1	1.96	0.65
1:B:454:PHE:HE2	1:B:647:ALA:CB	2.09	0.65
1:F:499:PHE:HE1	1:F:742:MET:HE1	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:410:PHE:O	2:K:413:PRO:HD2	1.95	0.65
1:C:1396:ASP:C	1:C:1396:ASP:OD1	2.34	0.65
1:A:336:THR:OG1	1:A:337:ASP:O	2.13	0.65
1:E:354:ARG:NH2	1:E:1292:ALA:O	2.28	0.65
1:C:37:ASP:OD1	1:C:37:ASP:C	2.33	0.65
1:A:491:LYS:NZ	1:A:785:GLY:HA3	2.11	0.65
1:A:782:ARG:CB	2:J:53:PRO:HD2	2.19	0.65
1:E:781:PHE:HE2	2:L:57:VAL:HG11	1.61	0.65
1:C:452:GLN:HG3	1:C:765:ALA:HB2	1.77	0.65
1:C:491:LYS:NZ	1:C:785:GLY:HA3	2.11	0.65
1:F:820:ARG:HB3	1:F:821:PRO:HD2	1.78	0.65
2:K:290:LYS:HG2	2:K:291:HIS:H	1.61	0.65
1:C:253:HIS:CE1	1:C:254:PRO:CD	2.62	0.65
1:C:359:THR:HG23	1:C:378:GLN:HB3	1.79	0.65
2:H:301:ALA:HA	2:H:304:CYS:SG	2.37	0.65
1:F:1401:LEU:N	1:F:1402:PRO:CD	2.59	0.65
2:J:301:ALA:HA	2:J:304:CYS:SG	2.37	0.65
2:H:368:HIS:ND1	2:H:387:GLU:HG3	2.10	0.65
2:H:181:ARG:HD3	2:H:187:VAL:CB	2.25	0.65
2:I:145:GLU:OE1	2:I:472:ALA:HB2	1.97	0.65
2:J:165:GLU:CD	2:J:458:ARG:HA	2.16	0.65
2:G:304:CYS:HA	2:G:307:THR:HG22	1.78	0.65
2:H:95:GLY:O	2:H:125:LYS:HD2	1.96	0.65
1:D:704:LEU:C	1:D:706:LYS:N	2.49	0.65
1:F:572:THR:HG21	1:F:615:ARG:HB3	1.78	0.65
1:B:657:VAL:O	1:B:658:LEU:C	2.32	0.65
1:A:1396:ASP:OD1	1:A:1396:ASP:C	2.34	0.65
1:C:336:THR:OG1	1:C:337:ASP:O	2.13	0.65
1:E:216:PHE:CZ	1:F:81:ILE:HD13	2.32	0.65
1:E:520:MET:HE1	1:E:705:LEU:HB3	1.79	0.65
1:B:782:ARG:HA	2:G:53:PRO:O	1.97	0.65
1:C:511:ILE:HG22	1:C:512:ASP:H	1.61	0.65
2:H:345:ILE:H	2:H:345:ILE:CD1	2.09	0.65
2:J:156:GLY:O	2:J:160:LEU:HD12	1.97	0.65
2:L:165:GLU:CD	2:L:458:ARG:HA	2.16	0.65
2:L:145:GLU:OE1	2:L:472:ALA:HB2	1.97	0.65
2:L:90:PHE:HB3	2:L:93:ILE:HG21	1.76	0.65
1:E:139:VAL:HG11	1:E:143:GLN:HB3	1.77	0.65
1:E:299:VAL:O	1:E:299:VAL:CG1	2.43	0.65
1:A:122:ASN:OD1	1:A:125:ARG:NH1	2.25	0.65
1:A:1062:ARG:O	1:A:1062:ARG:CG	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:960:THR:HG22	1:B:963:VAL:HG23	1.77	0.65
2:I:100:GLN:CB	2:I:105:GLU:HG2	2.22	0.65
1:A:1311:THR:HG23	1:A:1312:SER:H	1.60	0.65
1:D:657:VAL:O	1:D:658:LEU:C	2.32	0.65
1:A:1207:VAL:HG13	1:A:1208:PRO:HD2	1.77	0.65
1:B:1227:GLU:OE2	1:D:902:ASN:ND2	2.29	0.65
1:A:896:PRO:HG3	1:C:1225:GLU:HB3	1.78	0.65
1:C:781:PHE:HE2	2:K:57:VAL:HG11	1.61	0.65
1:D:1227:GLU:OE2	1:F:902:ASN:ND2	2.29	0.65
1:D:777:GLY:HA3	2:H:52:VAL:HG12	1.77	0.65
1:A:253:HIS:ND1	1:A:254:PRO:N	2.45	0.65
1:B:777:GLY:HA3	2:G:52:VAL:HG12	1.77	0.65
1:C:253:HIS:H	1:C:260:MET:HE1	1.61	0.65
1:A:251:MET:HB2	1:A:533:LEU:HD12	1.78	0.65
1:F:450:ARG:O	1:F:451:GLN:C	2.35	0.65
2:G:49:GLN:NE2	2:G:69:LEU:HG	2.10	0.65
2:K:167:ARG:NH2	2:K:170:GLY:HA2	2.12	0.65
2:K:165:GLU:OE1	2:K:458:ARG:HA	1.96	0.65
2:K:59:CYS:SG	2:K:61:VAL:HG13	2.37	0.65
2:G:181:ARG:HD3	2:G:187:VAL:CB	2.25	0.65
2:J:165:GLU:OE1	2:J:458:ARG:HA	1.97	0.65
2:J:145:GLU:OE1	2:J:472:ALA:HB2	1.97	0.65
2:I:268:SER:O	2:I:271:VAL:HG23	1.96	0.65
2:H:49:GLN:HA	2:H:49:GLN:OE1	1.96	0.65
2:H:59:CYS:SG	2:H:61:VAL:HG13	2.36	0.65
1:B:515:ARG:HD2	1:B:1367:TYR:CZ	2.31	0.65
1:D:1131:THR:HB	1:D:1134:LYS:CG	2.26	0.65
1:D:559:ARG:HD2	1:D:605:ILE:HD13	1.78	0.65
1:C:843:VAL:CG1	1:C:844:GLU:N	2.59	0.65
1:A:317:ILE:O	1:A:321:ASN:ND2	2.29	0.65
1:F:266:VAL:HG12	1:F:279:THR:HG23	1.76	0.65
1:B:1413:GLN:HG3	1:B:1414:ARG:O	1.96	0.65
1:F:1274:GLN:HE21	1:F:1293:ASN:HB3	1.61	0.65
1:A:452:GLN:HG3	1:A:765:ALA:HB2	1.77	0.65
1:A:1225:GLU:HB3	1:E:896:PRO:HG3	1.78	0.65
1:B:782:ARG:HH21	2:G:51:GLY:CA	0.99	0.65
1:E:1431:HIS:O	1:E:1435:THR:HG22	1.95	0.65
1:F:447:LEU:HD12	1:F:451:GLN:CG	2.23	0.65
2:G:300:THR:HA	8:G:484:FAD:HM73	1.77	0.65
2:K:268:SER:O	2:K:271:VAL:HG23	1.96	0.65
2:J:268:SER:O	2:J:271:VAL:HG23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:95:GLY:O	2:I:125:LYS:HD2	1.96	0.65
2:I:156:GLY:O	2:I:160:LEU:HD12	1.97	0.65
2:I:167:ARG:HD3	2:I:210:ALA:O	1.96	0.65
2:I:304:CYS:HA	2:I:307:THR:HG22	1.78	0.65
2:G:290:LYS:HG2	2:G:291:HIS:H	1.61	0.65
2:L:301:ALA:HA	2:L:304:CYS:SG	2.37	0.65
2:H:165:GLU:CD	2:H:458:ARG:HA	2.16	0.65
2:H:337:ALA:O	2:H:340:GLU:HB2	1.96	0.65
1:B:1221:PRO:HB2	1:B:1229:MET:HE2	1.77	0.65
1:F:908:LYS:HD2	1:F:921:TYR:CD1	2.31	0.65
1:A:420:VAL:HA	1:A:540:THR:HG21	1.78	0.65
1:D:56:LYS:HG2	1:D:71:LEU:HD22	1.79	0.65
1:D:1274:GLN:HE21	1:D:1293:ASN:HB3	1.61	0.65
1:C:1003:ARG:HG3	1:C:1003:ARG:HH11	1.61	0.65
1:C:621:ILE:HG13	1:C:658:LEU:HD13	1.79	0.65
1:E:782:ARG:CB	2:L:56:GLN:NE2	2.38	0.65
1:B:902:ASN:ND2	1:F:1227:GLU:OE2	2.29	0.65
1:C:216:PHE:CZ	1:D:81:ILE:HD13	2.32	0.65
1:A:1395:TYR:CE1	1:A:1397:LEU:CD2	2.80	0.65
1:D:780:ARG:NH2	1:D:1105:VAL:CG2	2.59	0.65
1:D:781:PHE:CE2	2:H:57:VAL:HG21	2.31	0.65
2:K:301:ALA:HA	2:K:304:CYS:SG	2.36	0.65
2:K:132:TRP:HD1	2:K:202:ARG:HB2	1.60	0.65
2:K:167:ARG:HD3	2:K:210:ALA:O	1.96	0.65
2:I:199:VAL:O	2:I:203:ARG:HD2	1.97	0.65
2:I:207:LEU:CG	2:I:212:VAL:HG11	2.27	0.65
2:I:469:LYS:HZ3	2:I:476:VAL:HA	1.62	0.65
2:I:49:GLN:OE1	2:I:49:GLN:HA	1.96	0.65
2:J:49:GLN:OE1	2:J:49:GLN:HA	1.96	0.65
2:I:264:TYR:HE2	2:I:307:THR:HG23	1.61	0.65
2:G:345:ILE:CD1	2:G:345:ILE:H	2.09	0.65
2:L:38:GLU:HA	2:L:126:TYR:CZ	2.32	0.65
2:L:59:CYS:SG	2:L:61:VAL:HG13	2.36	0.65
2:H:167:ARG:NH2	2:H:170:GLY:HA2	2.12	0.65
1:B:113:ASN:HD22	1:B:115:ASP:H	1.41	0.65
1:D:1008:THR:CG2	1:D:1009:ILE:N	2.55	0.65
1:A:643:ASN:HD22	1:A:665:THR:CG2	2.10	0.65
1:D:572:THR:HG21	1:D:615:ARG:HB3	1.78	0.65
1:E:1291:ASP:C	1:E:1291:ASP:OD1	2.35	0.65
1:E:1396:ASP:C	1:E:1396:ASP:OD1	2.34	0.65
1:A:777:GLY:HA3	2:J:52:VAL:HG12	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:452:GLN:HG3	1:E:764:THR:HG22	1.79	0.65
1:A:1227:GLU:CG	1:E:902:ASN:CG	2.63	0.65
1:E:1395:TYR:CE1	1:E:1397:LEU:CD2	2.80	0.65
1:D:1047:MET:CE	1:D:1186:ARG:NH2	2.44	0.65
2:G:59:CYS:SG	2:G:61:VAL:HG13	2.36	0.65
2:I:290:LYS:CG	2:I:291:HIS:H	2.09	0.65
2:K:337:ALA:O	2:K:340:GLU:HB2	1.97	0.65
2:H:321:ARG:HH21	2:H:351:GLU:CG	2.09	0.65
2:I:146:LEU:HD23	2:I:147:GLY:N	2.09	0.65
2:I:229:LEU:O	2:I:233:HIS:HB2	1.97	0.65
2:J:229:LEU:O	2:J:233:HIS:HB2	1.97	0.65
2:L:337:ALA:O	2:L:340:GLU:HB2	1.96	0.65
2:L:267:THR:HG21	2:L:286:ASN:HD21	1.61	0.65
1:A:146:LEU:C	1:A:146:LEU:HD12	2.16	0.65
1:A:310:PRO:CG	1:A:404:ARG:NH2	2.56	0.65
1:C:643:ASN:HD22	1:C:665:THR:CG2	2.10	0.65
1:D:768:GLU:HG2	1:D:769:GLU:N	2.09	0.65
1:E:843:VAL:CG1	1:E:844:GLU:N	2.59	0.65
1:E:1050:SER:O	1:E:1054:GLN:HG3	1.97	0.65
1:B:990:ILE:O	1:B:990:ILE:HG13	1.97	0.65
1:A:1003:ARG:HG3	1:A:1003:ARG:HH11	1.61	0.65
1:C:302:ALA:HA	1:C:347:ARG:HH12	1.62	0.65
1:E:94:GLU:O	1:E:95:THR:C	2.35	0.65
1:C:1221:PRO:HD2	1:C:1229:MET:HE1	1.77	0.65
1:C:902:ASN:CG	1:E:1227:GLU:CG	2.63	0.65
1:B:781:PHE:CE2	2:G:57:VAL:HG21	2.31	0.65
2:H:267:THR:HG21	2:H:286:ASN:HD21	1.61	0.65
2:G:38:GLU:HA	2:G:126:TYR:CZ	2.32	0.65
2:G:167:ARG:NH2	2:G:170:GLY:HA2	2.12	0.65
1:B:1394:VAL:HG11	1:B:1401:LEU:HD22	1.79	0.65
2:J:304:CYS:HA	2:J:307:THR:HG22	1.78	0.65
2:K:145:GLU:OE1	2:K:472:ALA:HB2	1.97	0.65
2:K:156:GLY:O	2:K:160:LEU:HD12	1.97	0.65
2:K:49:GLN:HA	2:K:49:GLN:OE1	1.96	0.65
2:I:38:GLU:HA	2:I:126:TYR:CZ	2.32	0.65
2:J:95:GLY:O	2:J:125:LYS:HD2	1.96	0.65
2:L:199:VAL:O	2:L:203:ARG:HD2	1.97	0.65
2:H:132:TRP:HD1	2:H:202:ARG:HB2	1.60	0.65
1:D:602:THR:C	1:D:640:THR:HG23	2.17	0.65
1:B:693:MET:CE	1:B:693:MET:HA	2.27	0.65
1:C:317:ILE:HG22	1:C:321:ASN:ND2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:609:GLU:O	1:B:611:MET:N	2.30	0.65
1:E:1112:THR:O	1:E:1114:PRO:HD3	1.97	0.65
1:C:452:GLN:HG3	1:C:764:THR:HG22	1.79	0.65
1:A:216:PHE:CZ	1:B:81:ILE:HD13	2.32	0.65
1:C:1395:TYR:CE1	1:C:1397:LEU:CD2	2.80	0.65
2:J:321:ARG:HH21	2:J:351:GLU:CG	2.09	0.65
1:D:820:ARG:HB3	1:D:821:PRO:HD2	1.78	0.65
1:F:452:GLN:HG3	1:F:765:ALA:HB2	1.78	0.65
2:K:267:THR:HG21	2:K:286:ASN:HD21	1.61	0.65
1:C:515:ARG:HD3	1:C:1367:TYR:CE1	2.31	0.65
2:J:38:GLU:HA	2:J:126:TYR:CZ	2.32	0.65
2:G:249:LYS:HG3	2:G:258:ILE:HD11	1.78	0.65
2:G:301:ALA:HA	2:G:304:CYS:SG	2.37	0.65
2:L:156:GLY:O	2:L:160:LEU:HD12	1.97	0.65
2:L:165:GLU:O	2:L:169:LYS:HD3	1.97	0.65
2:H:207:LEU:CG	2:H:212:VAL:HG11	2.26	0.65
1:D:295:LYS:NZ	1:D:299:VAL:O	2.17	0.65
1:A:958:HIS:N	1:A:958:HIS:ND1	2.45	0.65
1:D:218:THR:HG22	1:D:221:LEU:H	1.62	0.65
1:B:52:GLN:HE22	1:B:71:LEU:CB	2.09	0.65
1:F:52:GLN:HE22	1:F:71:LEU:CB	2.09	0.65
1:A:454:PHE:CE2	1:A:647:ALA:HB3	2.30	0.65
1:E:1207:VAL:HG13	1:E:1208:PRO:HD2	1.77	0.65
1:D:492:TYR:OH	1:D:648:GLU:OE2	2.14	0.65
1:A:1112:THR:O	1:A:1114:PRO:HD3	1.97	0.64
1:E:491:LYS:NZ	1:E:785:GLY:HA3	2.11	0.64
1:F:254:PRO:HG2	1:F:255:ALA:N	2.10	0.64
2:G:220:VAL:HG23	8:G:484:FAD:C6A	2.27	0.64
1:E:515:ARG:HD3	1:E:1367:TYR:CE1	2.31	0.64
2:K:180:ASP:O	2:K:182:MET:HE1	1.96	0.64
2:I:319:LEU:HA	2:I:345:ILE:CD1	2.28	0.64
2:I:321:ARG:HH21	2:I:351:GLU:CG	2.09	0.64
2:I:337:ALA:O	2:I:340:GLU:HB2	1.97	0.64
2:J:186:LEU:CD2	2:J:195:LEU:HD11	2.27	0.64
2:L:165:GLU:OE1	2:L:458:ARG:HA	1.96	0.64
2:L:167:ARG:HD3	2:L:210:ALA:O	1.96	0.64
2:L:220:VAL:HG23	8:L:484:FAD:C6A	2.27	0.64
2:L:229:LEU:O	2:L:233:HIS:HB2	1.97	0.64
1:E:146:LEU:C	1:E:146:LEU:HD12	2.16	0.64
1:B:56:LYS:HG2	1:B:71:LEU:HD22	1.79	0.64
1:B:1164:ARG:HB3	1:B:1167:LEU:HD12	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:74:GLY:CA	1:C:172:LEU:HD13	2.27	0.64
1:B:538:THR:O	1:B:538:THR:HG23	1.97	0.64
1:D:609:GLU:O	1:D:611:MET:N	2.30	0.64
1:D:947:PHE:HD1	1:D:947:PHE:O	1.80	0.64
1:F:609:GLU:O	1:F:611:MET:N	2.30	0.64
1:C:1222:LEU:C	1:C:1222:LEU:HD12	2.16	0.64
1:B:1131:THR:HB	1:B:1134:LYS:CG	2.26	0.64
1:E:182:MET:HE3	1:E:217:PRO:HB3	1.68	0.64
1:F:780:ARG:NH2	1:F:1105:VAL:CG2	2.59	0.64
1:F:782:ARG:HA	2:I:53:PRO:O	1.97	0.64
1:D:782:ARG:HA	2:H:53:PRO:O	1.97	0.64
1:B:782:ARG:N	2:G:52:VAL:HB	2.07	0.64
1:A:359:THR:HG23	1:A:378:GLN:HB3	1.79	0.64
1:E:1349:ARG:HG2	1:E:1349:ARG:HH11	1.62	0.64
1:E:515:ARG:NH2	1:E:966:ILE:HB	2.13	0.64
2:I:350:PRO:HG3	2:I:380:PRO:CG	2.28	0.64
1:D:1394:VAL:HG11	1:D:1401:LEU:HD22	1.79	0.64
2:K:186:LEU:CD2	2:K:195:LEU:HD11	2.27	0.64
2:K:207:LEU:CG	2:K:212:VAL:HG11	2.27	0.64
2:J:167:ARG:NH2	2:J:170:GLY:HA2	2.12	0.64
2:J:199:VAL:O	2:J:203:ARG:HD2	1.97	0.64
2:L:264:TYR:HE2	2:L:307:THR:HG23	1.61	0.64
2:H:229:LEU:O	2:H:233:HIS:HB2	1.97	0.64
1:C:426:LEU:CD1	1:C:558:MET:HG3	2.28	0.64
1:C:420:VAL:HA	1:C:540:THR:HG21	1.78	0.64
1:E:985:TYR:CE1	1:E:1207:VAL:CG1	2.80	0.64
1:D:1413:GLN:HG3	1:D:1414:ARG:O	1.96	0.64
1:F:409:HIS:O	1:F:412:THR:HB	1.98	0.64
1:C:453:ALA:O	1:C:761:GLN:HG3	1.98	0.64
1:B:182:MET:CE	1:B:217:PRO:C	2.62	0.64
2:L:319:LEU:HA	2:L:345:ILE:CD1	2.28	0.64
2:L:317:LYS:HE3	2:L:345:ILE:HD12	1.79	0.64
1:E:1442:GLU:HA	2:K:373:ASP:OD2	1.97	0.64
1:D:443:ASP:OD2	1:D:445:ALA:HB3	1.98	0.64
2:H:268:SER:O	2:H:271:VAL:HG23	1.96	0.64
2:G:416:LYS:HE3	2:G:433:ASN:CG	2.18	0.64
2:K:181:ARG:O	2:K:182:MET:HE3	1.95	0.64
2:K:416:LYS:HE3	2:K:433:ASN:CG	2.18	0.64
2:K:220:VAL:CG2	8:K:484:FAD:N6A	2.55	0.64
2:I:238:VAL:HG22	2:I:438:PHE:O	1.98	0.64
2:J:146:LEU:HD23	2:J:147:GLY:N	2.09	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:238:VAL:HG22	2:J:438:PHE:O	1.98	0.64
2:G:354:THR:HA	2:G:369:LEU:HG	1.80	0.64
2:H:38:GLU:HA	2:H:126:TYR:CZ	2.32	0.64
2:H:165:GLU:OE1	2:H:458:ARG:HA	1.96	0.64
1:E:958:HIS:N	1:E:958:HIS:ND1	2.45	0.64
1:E:426:LEU:HD11	1:E:558:MET:HG3	1.79	0.64
1:A:985:TYR:CE1	1:A:1207:VAL:CG1	2.80	0.64
1:C:209:GLN:HG3	1:C:210:ARG:N	2.13	0.64
1:B:296:MET:O	1:B:297:MET:C	2.33	0.64
1:F:98:LEU:O	1:F:101:GLY:N	2.25	0.64
1:E:777:GLY:HA3	2:L:52:VAL:HG12	1.79	0.64
2:J:319:LEU:HA	2:J:345:ILE:CD1	2.28	0.64
2:J:345:ILE:CD1	2:J:345:ILE:H	2.09	0.64
1:F:1135:VAL:O	1:F:1136:VAL:C	2.33	0.64
1:F:443:ASP:OD2	1:F:445:ALA:HB3	1.98	0.64
2:K:304:CYS:HA	2:K:307:THR:HG22	1.78	0.64
2:K:38:GLU:HA	2:K:126:TYR:CZ	2.32	0.64
2:K:229:LEU:O	2:K:233:HIS:HB2	1.97	0.64
2:H:354:THR:HA	2:H:369:LEU:HG	1.80	0.64
2:I:220:VAL:CG2	8:I:484:FAD:N6A	2.55	0.64
2:J:165:GLU:O	2:J:169:LYS:HD3	1.97	0.64
2:I:249:LYS:HG3	2:I:258:ILE:HD11	1.78	0.64
2:I:267:THR:HG21	2:I:286:ASN:HD21	1.61	0.64
2:H:242:VAL:CG1	2:H:403:PRO:HD3	2.21	0.64
1:C:47:HIS:HE1	1:C:176:SER:HB3	1.62	0.64
1:D:1164:ARG:HB3	1:D:1167:LEU:HD12	1.80	0.64
1:A:64:HIS:CE1	1:B:1173:ARG:HH12	2.15	0.64
1:C:64:HIS:CE1	1:D:1173:ARG:HH12	2.15	0.64
1:A:302:ALA:HA	1:A:347:ARG:HH12	1.62	0.64
1:A:453:ALA:O	1:A:761:GLN:HG3	1.98	0.64
1:A:902:ASN:HD22	1:C:1227:GLU:CG	2.09	0.64
1:A:227:MET:CE	1:A:282:GLU:HG2	2.28	0.64
1:E:248:GLU:HA	1:E:251:MET:CG	2.22	0.64
1:E:251:MET:HB2	1:E:533:LEU:HD12	1.78	0.64
2:H:281:GLU:HG3	2:H:284:SER:N	2.11	0.64
2:G:167:ARG:HD3	2:G:210:ALA:O	1.96	0.64
1:E:731:SER:HA	1:E:747:SER:HB2	1.80	0.64
1:A:1349:ARG:HG2	1:A:1349:ARG:HH11	1.62	0.64
2:I:165:GLU:O	2:I:169:LYS:HD3	1.97	0.64
1:F:496:HIS:ND1	1:F:654:TYR:HD1	1.93	0.64
2:H:145:GLU:OE1	2:H:472:ALA:HB2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:56:LYS:HG2	1:F:71:LEU:HD22	1.79	0.64
1:A:1291:ASP:C	1:A:1291:ASP:OD1	2.35	0.64
1:C:1291:ASP:OD1	1:C:1291:ASP:C	2.35	0.64
1:B:1164:ARG:HD2	1:B:1166:ASP:OD1	1.96	0.64
1:E:815:GLU:OE1	1:E:815:GLU:HA	1.98	0.64
1:A:1050:SER:O	1:A:1054:GLN:HG3	1.97	0.64
2:H:408:ASN:O	2:H:411:ASP:HB3	1.98	0.64
1:C:675:ILE:O	1:C:678:ARG:HB2	1.98	0.64
1:A:621:ILE:HG13	1:A:658:LEU:HD13	1.79	0.64
1:A:452:GLN:HG3	1:A:764:THR:HG22	1.79	0.64
2:L:290:LYS:CG	2:L:291:HIS:H	2.09	0.64
1:C:1447:TRP:CD2	1:C:1451:VAL:HG22	2.33	0.64
2:J:327:MET:HB2	2:J:346:TRP:HH2	1.54	0.64
2:J:350:PRO:HG3	2:J:380:PRO:CG	2.28	0.64
1:D:1289:MET:HE3	1:D:1289:MET:HB2	1.80	0.64
1:E:253:HIS:ND1	1:E:254:PRO:N	2.45	0.64
2:K:317:LYS:HE3	2:K:345:ILE:HD12	1.79	0.64
2:G:145:GLU:OE1	2:G:472:ALA:HB2	1.97	0.64
1:C:52:GLN:CD	1:C:71:LEU:H	2.01	0.64
1:C:746:ILE:HG22	1:C:747:SER:O	1.97	0.64
2:J:264:TYR:HE2	2:J:307:THR:HG23	1.61	0.64
2:I:132:TRP:HD1	2:I:202:ARG:HB2	1.60	0.64
2:I:152:VAL:HG13	2:I:175:VAL:CA	2.15	0.64
2:I:220:VAL:CG2	8:I:484:FAD:N1A	2.56	0.64
2:I:416:LYS:HE3	2:I:433:ASN:CG	2.18	0.64
2:G:259:VAL:HG21	2:G:264:TYR:CB	2.14	0.64
2:G:242:VAL:CG1	2:G:403:PRO:HD3	2.21	0.64
1:B:569:ILE:N	1:B:569:ILE:HD13	2.12	0.64
1:C:985:TYR:CE1	1:C:1207:VAL:CG1	2.80	0.64
1:F:1164:ARG:HB3	1:F:1167:LEU:HD12	1.79	0.64
1:A:74:GLY:CA	1:A:172:LEU:HD13	2.27	0.64
1:A:369:THR:HG22	1:A:1293:ASN:HD21	1.62	0.64
1:E:302:ALA:HA	1:E:347:ARG:HH12	1.62	0.64
1:F:990:ILE:O	1:F:990:ILE:HG13	1.97	0.64
1:A:442:MET:HE1	1:A:447:LEU:HA	1.79	0.64
1:C:896:PRO:HG3	1:E:1225:GLU:HB3	1.78	0.64
1:C:902:ASN:CG	1:E:1227:GLU:CD	2.57	0.64
1:A:1393:TYR:O	1:A:1394:VAL:CG2	2.44	0.64
1:C:1442:GLU:HA	2:J:373:ASP:OD2	1.97	0.64
1:D:482:ASP:OD1	1:D:788:HIS:HD2	1.81	0.64
1:A:662:GLY:O	1:A:720:ARG:HD3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1438:ARG:HB3	2:K:375:THR:HA	1.80	0.64
1:A:248:GLU:O	1:A:250:ARG:N	2.31	0.64
1:F:745:ARG:O	1:F:746:ILE:HG13	1.98	0.64
1:E:359:THR:HG23	1:E:378:GLN:HB3	1.79	0.64
1:F:453:ALA:O	1:F:761:GLN:HG3	1.97	0.64
2:G:229:LEU:O	2:G:233:HIS:HB2	1.97	0.64
2:G:77:LEU:O	2:G:127:ILE:HD11	1.98	0.64
1:A:52:GLN:HE22	1:A:71:LEU:CB	2.11	0.64
2:K:146:LEU:HD22	2:K:146:LEU:H	1.63	0.64
2:K:165:GLU:O	2:K:169:LYS:HD3	1.97	0.64
2:H:319:LEU:HA	2:H:345:ILE:CD1	2.28	0.64
2:I:220:VAL:HG23	8:I:484:FAD:C6A	2.27	0.64
2:H:146:LEU:H	2:H:146:LEU:HD22	1.63	0.64
2:H:309:ILE:HD11	2:H:340:GLU:OE2	1.98	0.64
1:F:515:ARG:CD	1:F:1367:TYR:HE1	2.04	0.64
1:B:602:THR:C	1:B:640:THR:HG23	2.17	0.64
1:F:657:VAL:O	1:F:658:LEU:C	2.32	0.64
2:G:408:ASN:O	2:G:411:ASP:HB3	1.98	0.64
1:E:675:ILE:O	1:E:678:ARG:HB2	1.98	0.64
1:B:885:GLY:C	1:B:887:GLY:H	2.01	0.64
1:C:1050:SER:O	1:C:1054:GLN:HG3	1.97	0.64
2:J:408:ASN:O	2:J:411:ASP:HB3	1.98	0.64
1:A:1221:PRO:CB	1:A:1229:MET:CE	2.73	0.64
1:B:877:ARG:CG	1:F:1230:GLN:N	2.61	0.64
2:L:350:PRO:HG3	2:L:380:PRO:CG	2.28	0.64
2:L:353:PHE:CE1	2:L:370:GLY:HA3	2.33	0.64
2:J:351:GLU:HB3	2:J:353:PHE:HB3	1.80	0.64
1:E:662:GLY:O	1:E:720:ARG:HD3	1.98	0.64
1:E:1374:VAL:O	1:E:1375:ILE:HG13	1.98	0.64
2:G:238:VAL:HG22	2:G:438:PHE:O	1.98	0.64
2:G:337:ALA:O	2:G:340:GLU:HB2	1.97	0.64
1:B:1401:LEU:N	1:B:1402:PRO:CD	2.59	0.64
2:H:351:GLU:HB3	2:H:353:PHE:HB3	1.80	0.64
2:G:319:LEU:HA	2:G:345:ILE:CD1	2.28	0.64
2:G:353:PHE:CE1	2:G:370:GLY:HA3	2.33	0.64
2:G:267:THR:HG21	2:G:286:ASN:HD21	1.61	0.64
2:L:77:LEU:O	2:L:127:ILE:HD11	1.98	0.64
2:L:416:LYS:HE3	2:L:433:ASN:CG	2.18	0.64
2:L:249:LYS:HG3	2:L:258:ILE:HD11	1.78	0.64
1:D:409:HIS:O	1:D:412:THR:HB	1.98	0.64
1:B:950:THR:CG2	1:B:951:GLU:H	2.06	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:426:LEU:CD1	1:A:558:MET:HG3	2.28	0.64
1:F:266:VAL:O	1:F:279:THR:HG23	1.98	0.64
1:E:369:THR:HG22	1:E:1293:ASN:HD21	1.62	0.64
1:C:1112:THR:O	1:C:1114:PRO:HD3	1.97	0.64
1:C:902:ASN:HD22	1:E:1227:GLU:CG	2.09	0.64
1:D:783:LYS:CE	2:H:57:VAL:CG1	2.36	0.64
1:C:662:GLY:O	1:C:720:ARG:HD3	1.98	0.64
2:K:351:GLU:HB3	2:K:353:PHE:HB3	1.80	0.64
2:K:350:PRO:HG3	2:K:380:PRO:CG	2.28	0.64
1:B:260:MET:O	1:B:263:LEU:N	2.31	0.64
1:D:555:PHE:HD1	1:D:556:ARG:N	1.96	0.64
2:G:120:ILE:O	2:G:123:VAL:HG23	1.98	0.64
2:G:165:GLU:O	2:G:169:LYS:HD3	1.97	0.64
2:G:207:LEU:CG	2:G:212:VAL:HG11	2.26	0.64
1:A:746:ILE:HG22	1:A:747:SER:N	2.09	0.64
2:K:153:ILE:HD11	8:K:484:FAD:N1A	2.13	0.64
2:K:471:LYS:CE	2:K:471:LYS:HA	2.23	0.64
2:I:167:ARG:NH2	2:I:170:GLY:HA2	2.12	0.64
2:L:207:LEU:CG	2:L:212:VAL:HG11	2.26	0.64
2:L:238:VAL:HG22	2:L:438:PHE:O	1.98	0.64
2:G:178:ARG:HB2	2:G:219:GLU:OE1	1.98	0.64
1:C:345:MET:CE	1:C:385:LEU:HB2	2.28	0.64
1:D:515:ARG:HD2	1:D:1367:TYR:CZ	2.31	0.64
1:D:1131:THR:HG22	1:D:1134:LYS:N	2.12	0.64
1:F:602:THR:C	1:F:640:THR:HG23	2.17	0.64
1:D:1369:THR:O	1:D:1369:THR:CG2	2.46	0.64
1:F:693:MET:HA	1:F:693:MET:CE	2.27	0.64
1:E:426:LEU:CD1	1:E:558:MET:HG3	2.28	0.64
1:D:693:MET:HA	1:D:693:MET:CE	2.27	0.64
1:A:386:GLY:O	1:A:389:GLU:HG3	1.98	0.64
1:E:1311:THR:HG23	1:E:1312:SER:H	1.60	0.64
1:C:815:GLU:HA	1:C:815:GLU:OE1	1.98	0.64
1:E:621:ILE:HG13	1:E:658:LEU:HD13	1.79	0.64
1:A:94:GLU:O	1:A:95:THR:C	2.35	0.64
2:I:408:ASN:O	2:I:411:ASP:HB3	1.98	0.64
1:C:777:GLY:HA3	2:K:52:VAL:HG12	1.79	0.64
1:B:1131:THR:HG22	1:B:1134:LYS:N	2.12	0.64
1:F:1131:THR:HG22	1:F:1134:LYS:N	2.12	0.64
2:G:199:VAL:O	2:G:203:ARG:HD2	1.97	0.64
1:E:52:GLN:HE22	1:E:71:LEU:CB	2.11	0.64
1:C:1349:ARG:HH11	1:C:1349:ARG:HG2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1394:VAL:HG11	1:F:1401:LEU:HD22	1.79	0.64
2:K:238:VAL:HG22	2:K:438:PHE:O	1.98	0.64
2:H:321:ARG:HA	2:H:352:GLY:H	1.63	0.64
2:I:153:ILE:HD11	8:I:484:FAD:N1A	2.13	0.64
2:L:167:ARG:NH2	2:L:170:GLY:HA2	2.12	0.64
2:L:281:GLU:HG3	2:L:284:SER:N	2.11	0.64
2:H:416:LYS:HE3	2:H:433:ASN:CG	2.18	0.64
2:L:418:THR:CA	2:L:424:LEU:HD21	2.28	0.64
2:J:418:THR:HG23	2:J:422:THR:HG23	1.77	0.64
1:C:122:ASN:OD1	1:C:125:ARG:NH1	2.25	0.64
1:C:386:GLY:O	1:C:389:GLU:HG3	1.98	0.64
1:D:59:VAL:HG22	1:D:105:TYR:CD2	2.33	0.64
1:F:1447:TRP:O	1:F:1451:VAL:HG23	1.98	0.64
1:E:74:GLY:CA	1:E:172:LEU:HD13	2.28	0.64
1:D:98:LEU:O	1:D:101:GLY:N	2.25	0.64
2:K:408:ASN:O	2:K:411:ASP:HB3	1.98	0.64
2:L:408:ASN:O	2:L:411:ASP:HB3	1.98	0.64
1:B:947:PHE:HD1	1:B:947:PHE:O	1.80	0.64
1:A:312:ASN:OD1	1:A:312:ASN:N	2.22	0.64
1:C:1450:GLU:OE1	1:C:1453:LYS:NZ	2.24	0.63
1:F:482:ASP:OD1	1:F:788:HIS:HD2	1.81	0.63
1:F:782:ARG:NH2	2:I:51:GLY:HA3	0.97	0.63
1:B:782:ARG:NH2	2:G:51:GLY:HA3	0.97	0.63
2:K:319:LEU:HA	2:K:345:ILE:CD1	2.28	0.63
2:G:146:LEU:H	2:G:146:LEU:HD22	1.63	0.63
2:G:156:GLY:O	2:G:160:LEU:HD12	1.97	0.63
2:I:302:MET:CE	2:I:334:VAL:HA	2.28	0.63
2:H:181:ARG:HB3	2:H:181:ARG:NH1	2.14	0.63
2:I:186:LEU:CD2	2:I:195:LEU:HD11	2.27	0.63
2:G:321:ARG:HA	2:G:352:GLY:H	1.62	0.63
2:L:181:ARG:NH1	2:L:181:ARG:HB3	2.14	0.63
2:H:238:VAL:HG22	2:H:438:PHE:O	1.98	0.63
2:H:77:LEU:O	2:H:127:ILE:HD11	1.98	0.63
1:B:139:VAL:CG1	1:B:140:SER:N	2.35	0.63
2:I:178:ARG:HB2	2:I:219:GLU:OE1	1.98	0.63
1:B:1369:THR:O	1:B:1369:THR:CG2	2.46	0.63
1:A:426:LEU:HD11	1:A:558:MET:HG3	1.79	0.63
1:E:465:LEU:O	1:E:465:LEU:HD12	1.98	0.63
1:E:1282:GLN:HA	1:E:1302:GLY:O	1.98	0.63
1:E:1164:ARG:NH1	1:E:1166:ASP:OD2	2.31	0.63
1:F:947:PHE:O	1:F:947:PHE:HD1	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:64:HIS:CE1	1:F:1173:ARG:HH12	2.15	0.63
1:E:491:LYS:O	1:E:492:TYR:C	2.35	0.63
1:A:1395:TYR:CZ	1:A:1397:LEU:HD21	2.34	0.63
2:L:302:MET:CE	2:L:334:VAL:HA	2.28	0.63
2:J:317:LYS:HE3	2:J:345:ILE:HD12	1.79	0.63
1:B:254:PRO:HG2	1:B:255:ALA:N	2.10	0.63
1:B:555:PHE:HD1	1:B:556:ARG:N	1.96	0.63
1:D:453:ALA:O	1:D:761:GLN:HG3	1.97	0.63
1:C:52:GLN:HE22	1:C:71:LEU:CB	2.11	0.63
1:E:52:GLN:CD	1:E:71:LEU:H	2.01	0.63
1:A:746:ILE:HG22	1:A:747:SER:O	1.97	0.63
2:K:309:ILE:HD11	2:K:340:GLU:OE2	1.98	0.63
2:L:153:ILE:HD11	8:L:484:FAD:N1A	2.13	0.63
2:H:165:GLU:O	2:H:169:LYS:HD3	1.97	0.63
1:B:409:HIS:O	1:B:412:THR:HB	1.98	0.63
1:F:1369:THR:CG2	1:F:1369:THR:O	2.46	0.63
1:E:643:ASN:HD22	1:E:665:THR:CG2	2.10	0.63
1:E:386:GLY:O	1:E:389:GLU:HG3	1.98	0.63
1:F:218:THR:HG22	1:F:221:LEU:H	1.62	0.63
1:D:37:ASP:C	1:D:37:ASP:OD1	2.37	0.63
1:F:59:VAL:HG22	1:F:105:TYR:CD2	2.33	0.63
1:A:465:LEU:HD12	1:A:465:LEU:O	1.98	0.63
1:D:353:MET:HG2	1:D:385:LEU:CD2	2.29	0.63
1:C:1164:ARG:NH1	1:C:1166:ASP:OD2	2.31	0.63
1:C:30:HIS:HE1	1:C:368:GLU:OE1	1.81	0.63
1:B:1274:GLN:HE21	1:B:1293:ASN:HB3	1.61	0.63
1:E:30:HIS:HE1	1:E:368:GLU:OE1	1.81	0.63
1:C:370:GLY:HA3	1:C:1237:ASN:HB3	1.80	0.63
1:A:479:MET:HG3	1:A:1104:MET:HE3	1.79	0.63
1:A:491:LYS:O	1:A:492:TYR:C	2.35	0.63
1:A:1220:ARG:HB3	1:A:1221:PRO:HD3	1.81	0.63
2:J:354:THR:HA	2:J:369:LEU:HG	1.80	0.63
1:E:227:MET:CE	1:E:282:GLU:HG2	2.28	0.63
1:E:248:GLU:O	1:E:250:ARG:N	2.31	0.63
2:H:264:TYR:HE2	2:H:307:THR:HG23	1.61	0.63
2:G:153:ILE:HD11	8:G:484:FAD:N1A	2.13	0.63
2:I:317:LYS:HE3	2:I:345:ILE:HD12	1.79	0.63
2:K:77:LEU:O	2:K:127:ILE:HD11	1.98	0.63
2:H:350:PRO:HG3	2:H:380:PRO:CG	2.28	0.63
2:I:120:ILE:O	2:I:123:VAL:HG23	1.98	0.63
2:J:146:LEU:H	2:J:146:LEU:HD22	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:95:GLY:C	2:J:125:LYS:HD2	2.19	0.63
2:G:317:LYS:HE3	2:G:345:ILE:HD12	1.79	0.63
2:L:120:ILE:O	2:L:123:VAL:HG23	1.98	0.63
2:H:199:VAL:O	2:H:203:ARG:HD2	1.97	0.63
2:H:175:VAL:CG1	2:H:214:TYR:HA	2.23	0.63
2:H:178:ARG:HB2	2:H:219:GLU:OE1	1.98	0.63
2:K:418:THR:CA	2:K:424:LEU:HD21	2.28	0.63
1:D:113:ASN:HD22	1:D:115:ASP:H	1.41	0.63
1:E:958:HIS:O	1:E:1369:THR:HG21	1.99	0.63
1:C:958:HIS:ND1	1:C:958:HIS:N	2.45	0.63
1:A:728:ILE:HD12	1:A:1047:MET:HE3	1.81	0.63
1:C:466:HIS:ND1	1:C:678:ARG:NH1	2.46	0.63
1:D:875:MET:HE1	1:D:1139:PHE:CD2	2.33	0.63
1:A:1222:LEU:C	1:A:1222:LEU:HD12	2.16	0.63
1:B:1447:TRP:O	1:B:1451:VAL:HG23	1.98	0.63
1:D:782:ARG:NH2	2:H:51:GLY:HA3	0.97	0.63
2:K:318:CYS:O	2:K:345:ILE:HD13	1.99	0.63
1:C:248:GLU:O	1:C:250:ARG:N	2.31	0.63
1:B:443:ASP:OD2	1:B:445:ALA:HB3	1.97	0.63
1:B:450:ARG:O	1:B:451:GLN:C	2.35	0.63
2:G:144:ARG:NH1	2:G:169:LYS:HA	2.14	0.63
2:G:309:ILE:HD11	2:G:340:GLU:OE2	1.98	0.63
2:J:281:GLU:HG3	2:J:284:SER:N	2.11	0.63
1:E:746:ILE:HG22	1:E:747:SER:O	1.97	0.63
2:G:181:ARG:HB3	2:G:181:ARG:NH1	2.14	0.63
2:I:144:ARG:NH1	2:I:169:LYS:HA	2.14	0.63
2:I:92:GLU:OE2	2:I:202:ARG:HD3	1.99	0.63
2:I:309:ILE:HD11	2:I:340:GLU:OE2	1.98	0.63
2:I:236:VAL:HG23	2:I:437:VAL:HA	1.80	0.63
2:G:351:GLU:HB3	2:G:353:PHE:HB3	1.80	0.63
2:L:144:ARG:NH1	2:L:169:LYS:HA	2.14	0.63
2:L:309:ILE:HD11	2:L:340:GLU:OE2	1.98	0.63
2:L:241:GLY:H	2:L:443:ILE:HG23	1.64	0.63
2:I:181:ARG:NH1	2:I:181:ARG:HB3	2.14	0.63
2:G:418:THR:CA	2:G:424:LEU:HD21	2.28	0.63
2:J:242:VAL:CG1	2:J:403:PRO:HD3	2.21	0.63
1:C:1007:GLY:O	1:C:1010:ALA:HB3	1.99	0.63
1:C:958:HIS:O	1:C:1369:THR:HG21	1.99	0.63
1:E:643:ASN:HD22	1:E:665:THR:HB	1.63	0.63
1:F:52:GLN:HE22	1:F:71:LEU:N	1.96	0.63
1:A:728:ILE:HD12	1:A:1047:MET:HE1	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:891:PRO:HB3	1:E:894:PHE:CE2	2.34	0.63
1:E:1289:MET:HE3	1:E:1289:MET:H	1.63	0.63
1:E:209:GLN:HG3	1:E:210:ARG:N	2.13	0.63
1:B:745:ARG:O	1:B:746:ILE:HG13	1.98	0.63
1:B:820:ARG:HB3	1:B:821:PRO:HD2	1.78	0.63
2:K:354:THR:HA	2:K:369:LEU:HG	1.80	0.63
2:J:181:ARG:HB3	2:J:181:ARG:NH1	2.14	0.63
2:K:199:VAL:O	2:K:203:ARG:HD2	1.97	0.63
2:G:179:TYR:HB2	2:G:181:ARG:HH12	1.64	0.63
2:I:95:GLY:C	2:I:125:LYS:HD2	2.19	0.63
2:J:92:GLU:OE2	2:J:202:ARG:HD3	1.99	0.63
2:J:416:LYS:HE3	2:J:433:ASN:CG	2.18	0.63
2:J:431:MET:HG2	2:J:438:PHE:CE2	2.34	0.63
2:G:302:MET:CE	2:G:334:VAL:HA	2.28	0.63
2:H:153:ILE:HD11	8:H:484:FAD:N1A	2.13	0.63
2:I:418:THR:CA	2:I:424:LEU:HD21	2.28	0.63
1:B:528:ASN:CB	1:B:542:LEU:HD22	2.29	0.63
1:C:295:LYS:C	1:C:295:LYS:HD3	2.19	0.63
1:F:113:ASN:HD22	1:F:115:ASP:H	1.41	0.63
1:C:603:HIS:HA	1:C:640:THR:HG22	1.81	0.63
1:B:492:TYR:OH	1:B:648:GLU:OE2	2.14	0.63
1:F:353:MET:HE2	1:F:366:GLY:O	1.99	0.63
1:A:370:GLY:HA3	1:A:1237:ASN:HB3	1.79	0.63
1:E:370:GLY:HA3	1:E:1237:ASN:HB3	1.79	0.63
1:D:339:ARG:HG3	1:D:396:GLN:HG3	1.80	0.63
1:B:1466:LEU:O	1:B:1467:GLU:C	2.37	0.63
1:A:1227:GLU:CG	1:E:902:ASN:HD22	2.09	0.63
1:E:1221:PRO:CG	1:E:1229:MET:HE1	2.28	0.63
1:A:1442:GLU:HA	2:L:373:ASP:OD2	1.97	0.63
1:C:1435:THR:HG23	1:C:1437:SER:H	1.63	0.63
1:C:227:MET:CE	1:C:282:GLU:HG2	2.28	0.63
1:C:253:HIS:ND1	1:C:254:PRO:N	2.45	0.63
1:F:442:MET:HE3	1:F:446:GLU:HB3	1.81	0.63
1:D:452:GLN:HG3	1:D:765:ALA:HB2	1.78	0.63
2:G:186:LEU:CD2	2:G:195:LEU:HD11	2.27	0.63
2:G:431:MET:HG2	2:G:438:PHE:CE2	2.34	0.63
1:A:52:GLN:CD	1:A:71:LEU:H	2.01	0.63
2:I:318:CYS:O	2:I:345:ILE:HD13	1.99	0.63
2:K:144:ARG:NH1	2:K:169:LYS:HA	2.14	0.63
2:K:92:GLU:OE2	2:K:202:ARG:HD3	1.99	0.63
2:G:182:MET:O	2:G:187:VAL:HG21	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:186:LEU:CD2	2:L:195:LEU:HD11	2.27	0.63
2:L:431:MET:HG2	2:L:438:PHE:CE2	2.34	0.63
1:A:143:GLN:C	1:A:143:GLN:HE21	2.01	0.63
2:H:186:LEU:CD2	2:H:195:LEU:HD11	2.27	0.63
2:H:95:GLY:C	2:H:125:LYS:HD2	2.19	0.63
2:J:178:ARG:HB2	2:J:219:GLU:OE1	1.98	0.63
1:B:236:THR:HG22	1:B:328:ASP:H	1.62	0.63
1:E:974:ILE:CD1	1:E:983:LEU:HD12	2.19	0.63
1:E:295:LYS:HD3	1:E:295:LYS:C	2.19	0.63
2:G:197:LYS:HB3	2:G:273:LEU:HG	1.81	0.63
2:L:197:LYS:HB3	2:L:273:LEU:HG	1.81	0.63
1:B:37:ASP:C	1:B:37:ASP:OD1	2.37	0.63
1:B:266:VAL:O	1:B:279:THR:HG23	1.98	0.63
1:A:978:GLU:O	1:A:981:ALA:HB3	1.99	0.63
1:C:116:ILE:HD13	1:C:190:THR:CG2	2.29	0.63
1:E:116:ILE:HD13	1:E:190:THR:CG2	2.29	0.63
1:D:152:ARG:O	1:D:156:GLU:HB2	1.99	0.63
1:D:355:TYR:C	1:D:355:TYR:CD1	2.72	0.63
1:A:30:HIS:HE1	1:A:368:GLU:OE1	1.81	0.63
1:B:1131:THR:CG2	1:B:1133:GLU:HB2	2.29	0.63
2:L:318:CYS:O	2:L:345:ILE:HD13	1.99	0.63
2:J:321:ARG:HA	2:J:352:GLY:H	1.62	0.63
1:D:728:ILE:HD12	1:D:1047:MET:HE1	1.77	0.63
2:G:92:GLU:OE2	2:G:202:ARG:HD3	1.99	0.63
2:G:241:GLY:H	2:G:443:ILE:HG23	1.64	0.63
1:C:511:ILE:CG2	1:C:512:ASP:N	2.59	0.63
1:C:515:ARG:NH2	1:C:966:ILE:HB	2.13	0.63
2:K:153:ILE:O	2:K:239:ALA:HB3	1.99	0.63
2:K:90:PHE:HB3	2:K:93:ILE:HG21	1.76	0.63
2:H:302:MET:CE	2:H:334:VAL:HA	2.28	0.63
2:H:317:LYS:HE3	2:H:345:ILE:HD12	1.79	0.63
2:H:182:MET:O	2:H:187:VAL:HG21	1.99	0.63
2:J:144:ARG:NH1	2:J:169:LYS:HA	2.14	0.63
2:J:165:GLU:HB3	2:J:169:LYS:HZ3	1.62	0.63
1:C:143:GLN:HE21	1:C:143:GLN:C	2.01	0.63
2:L:165:GLU:HB3	2:L:169:LYS:HZ3	1.62	0.63
2:L:179:TYR:HB2	2:L:181:ARG:HH12	1.64	0.63
2:L:182:MET:O	2:L:187:VAL:HG21	1.99	0.63
2:H:144:ARG:NH1	2:H:169:LYS:HA	2.14	0.63
2:K:178:ARG:HB2	2:K:219:GLU:OE1	1.98	0.63
1:E:1007:GLY:O	1:E:1010:ALA:HB3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1389:GLY:HA2	1:D:1459:PRO:HG2	1.81	0.63
1:C:891:PRO:HB3	1:C:894:PHE:CE2	2.34	0.63
1:F:643:ASN:HB3	1:F:665:THR:CG2	2.29	0.63
1:B:643:ASN:HB3	1:B:665:THR:CG2	2.29	0.63
1:F:353:MET:HG2	1:F:385:LEU:CD2	2.29	0.63
1:E:1417:VAL:HG12	1:E:1419:HIS:H	1.64	0.63
1:D:439:PRO:O	1:D:439:PRO:HG2	1.99	0.63
1:B:510:PRO:HD2	1:B:970:PRO:HB3	1.81	0.63
1:E:782:ARG:HG3	2:L:52:VAL:CB	2.18	0.63
1:C:1374:VAL:O	1:C:1375:ILE:HG13	1.98	0.63
1:E:1447:TRP:CD2	1:E:1451:VAL:HG22	2.33	0.63
2:K:302:MET:CE	2:K:334:VAL:HA	2.28	0.63
1:F:1131:THR:CG2	1:F:1133:GLU:HB2	2.29	0.63
1:D:745:ARG:O	1:D:746:ILE:HG13	1.98	0.63
1:F:447:LEU:HD21	1:F:674:ALA:CA	2.29	0.63
2:K:281:GLU:HG3	2:K:284:SER:N	2.11	0.63
2:K:181:ARG:NH1	2:K:181:ARG:HB3	2.14	0.63
2:J:179:TYR:HB2	2:J:181:ARG:HH12	1.64	0.63
2:J:182:MET:O	2:J:187:VAL:HG21	1.99	0.63
2:H:353:PHE:CE1	2:H:370:GLY:HA3	2.33	0.63
2:I:259:VAL:HG21	2:I:264:TYR:CB	2.14	0.63
2:G:264:TYR:HE2	2:G:307:THR:HG23	1.61	0.63
2:L:186:LEU:HD11	2:L:200:VAL:CB	2.28	0.63
2:H:449:LEU:HB3	2:H:452:TRP:CE3	2.34	0.63
2:I:182:MET:O	2:I:187:VAL:HG21	1.99	0.63
1:A:345:MET:CE	1:A:385:LEU:HB2	2.28	0.63
1:E:80:ARG:HD3	1:E:125:ARG:O	1.98	0.63
1:A:80:ARG:HD3	1:A:125:ARG:O	1.98	0.63
1:C:1008:THR:HG22	1:C:1009:ILE:H	1.64	0.63
1:C:1062:ARG:CG	1:C:1062:ARG:O	2.44	0.63
1:A:403:ASP:OD2	1:A:407:LYS:NZ	2.32	0.63
2:K:197:LYS:HB3	2:K:273:LEU:HG	1.81	0.63
1:F:492:TYR:OH	1:F:648:GLU:OE2	2.14	0.63
1:A:675:ILE:O	1:A:678:ARG:HB2	1.98	0.63
1:F:1466:LEU:O	1:F:1467:GLU:C	2.37	0.63
1:A:815:GLU:HA	1:A:815:GLU:OE1	1.98	0.63
1:D:990:ILE:HG13	1:D:990:ILE:O	1.97	0.63
1:C:1282:GLN:HA	1:C:1302:GLY:O	1.98	0.63
1:C:1221:PRO:HB2	1:C:1229:MET:CE	2.09	0.63
1:C:1220:ARG:HB3	1:C:1221:PRO:HD3	1.81	0.63
1:C:693:MET:O	1:C:694:ALA:C	2.37	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1221:PRO:CG	1:A:1229:MET:HE2	2.28	0.63
2:L:302:MET:HE1	2:L:333:GLU:HG3	1.78	0.63
1:C:1375:ILE:C	1:C:1376:LEU:HD23	2.19	0.63
2:J:302:MET:CE	2:J:334:VAL:HA	2.28	0.63
1:F:1112:THR:O	1:F:1114:PRO:HD3	1.99	0.63
1:F:782:ARG:NH2	2:I:51:GLY:HA2	0.72	0.63
1:C:938:PRO:HG2	1:C:1041:ALA:HB1	1.81	0.63
2:K:302:MET:HE1	2:K:333:GLU:HG3	1.80	0.63
1:F:555:PHE:HD1	1:F:556:ARG:N	1.96	0.63
2:G:153:ILE:O	2:G:239:ALA:HB3	1.99	0.63
2:K:182:MET:O	2:K:187:VAL:HG21	1.99	0.63
1:E:746:ILE:HG23	1:E:1182:ASP:CB	2.29	0.63
2:K:95:GLY:C	2:K:125:LYS:HD2	2.19	0.63
2:I:77:LEU:O	2:I:127:ILE:HD11	1.98	0.63
2:I:146:LEU:H	2:I:146:LEU:HD22	1.63	0.63
2:J:132:TRP:HD1	2:J:202:ARG:HB2	1.60	0.63
2:J:175:VAL:CG1	2:J:214:TYR:HA	2.23	0.63
2:J:236:VAL:HG23	2:J:437:VAL:HA	1.80	0.63
2:G:281:GLU:HG3	2:G:284:SER:N	2.11	0.63
2:L:146:LEU:HD22	2:L:146:LEU:H	1.63	0.63
2:H:236:VAL:HG23	2:H:437:VAL:HA	1.80	0.63
2:H:431:MET:HG2	2:H:438:PHE:CE2	2.34	0.63
1:B:515:ARG:CD	1:B:1367:TYR:HE1	2.04	0.63
1:E:345:MET:CE	1:E:385:LEU:HB2	2.28	0.63
1:F:464:ILE:CD1	1:F:779:TYR:CZ	2.81	0.63
1:F:249:THR:HG23	1:F:249:THR:O	1.98	0.63
1:C:24:ALA:CB	1:C:207:TYR:CE2	2.82	0.63
1:A:116:ILE:HD13	1:A:190:THR:CG2	2.29	0.63
1:D:538:THR:O	1:D:538:THR:HG23	1.97	0.63
1:C:369:THR:HG22	1:C:1293:ASN:HD21	1.62	0.63
1:E:312:ASN:N	1:E:312:ASN:OD1	2.22	0.63
1:D:1159:ASN:O	1:D:1161:VAL:N	2.32	0.63
1:C:493:ARG:NH2	1:C:786:ASP:OD1	2.32	0.63
1:B:152:ARG:O	1:B:156:GLU:HB2	1.99	0.63
1:E:450:ARG:O	1:E:451:GLN:C	2.37	0.62
1:A:902:ASN:CG	1:C:1227:GLU:CD	2.57	0.62
1:A:1376:LEU:HB3	1:A:1439:PHE:CE1	2.32	0.62
2:L:317:LYS:HE3	2:L:345:ILE:HG21	1.81	0.62
2:L:354:THR:HA	2:L:369:LEU:HG	1.80	0.62
2:J:350:PRO:CD	2:J:374:ALA:HB2	2.29	0.62
1:D:1105:VAL:HA	2:H:54:PHE:CE1	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:482:ASP:OD1	1:B:788:HIS:HD2	1.81	0.62
1:B:453:ALA:O	1:B:761:GLN:HG3	1.97	0.62
2:G:449:LEU:HB3	2:G:452:TRP:CE3	2.34	0.62
1:C:746:ILE:C	1:C:747:SER:O	2.35	0.62
1:A:746:ILE:HG23	1:A:1182:ASP:CB	2.29	0.62
1:B:1442:GLU:OE2	2:H:374:ALA:C	2.37	0.62
2:I:431:MET:HG2	2:I:438:PHE:CE2	2.34	0.62
2:J:153:ILE:O	2:J:239:ALA:HB3	1.99	0.62
1:F:1442:GLU:OE2	2:G:374:ALA:C	2.38	0.62
2:L:92:GLU:OE2	2:L:202:ARG:HD3	1.99	0.62
2:L:236:VAL:HG23	2:L:437:VAL:HA	1.80	0.62
2:L:95:GLY:C	2:L:125:LYS:HD2	2.19	0.62
2:H:153:ILE:O	2:H:239:ALA:HB3	1.99	0.62
2:I:179:TYR:HB2	2:I:181:ARG:HH12	1.64	0.62
1:A:1007:GLY:O	1:A:1010:ALA:HB3	1.99	0.62
1:F:569:ILE:N	1:F:569:ILE:HD13	2.12	0.62
1:D:52:GLN:HE22	1:D:71:LEU:N	1.96	0.62
1:E:978:GLU:O	1:E:981:ALA:HB3	1.99	0.62
1:A:1282:GLN:HA	1:A:1302:GLY:O	1.98	0.62
1:D:351:ARG:HA	1:D:351:ARG:HE	1.64	0.62
1:D:1466:LEU:O	1:D:1467:GLU:C	2.37	0.62
1:E:695:ASN:O	1:E:696:TYR:C	2.37	0.62
1:F:439:PRO:O	1:F:439:PRO:HG2	1.99	0.62
1:F:538:THR:O	1:F:538:THR:HG23	1.97	0.62
1:A:1300:LEU:HD12	1:A:1301:SER:H	1.64	0.62
1:C:1300:LEU:HD12	1:C:1301:SER:H	1.64	0.62
1:A:1164:ARG:NH1	1:A:1166:ASP:OD2	2.31	0.62
1:C:94:GLU:O	1:C:95:THR:C	2.35	0.62
1:C:446:GLU:O	1:C:447:LEU:C	2.36	0.62
1:A:1227:GLU:CG	1:E:902:ASN:ND2	2.62	0.62
2:L:350:PRO:CD	2:L:374:ALA:HB2	2.30	0.62
2:J:353:PHE:CE1	2:J:370:GLY:HA3	2.33	0.62
1:E:1435:THR:HG23	1:E:1437:SER:H	1.63	0.62
2:K:321:ARG:HA	2:K:352:GLY:H	1.62	0.62
1:D:254:PRO:HG2	1:D:255:ALA:N	2.10	0.62
2:G:186:LEU:HD11	2:G:200:VAL:CB	2.28	0.62
2:G:220:VAL:HG22	8:G:484:FAD:C6A	2.29	0.62
2:I:351:GLU:HB3	2:I:353:PHE:HB3	1.80	0.62
2:I:350:PRO:CD	2:I:374:ALA:HB2	2.29	0.62
2:K:220:VAL:HG23	8:K:484:FAD:C6A	2.27	0.62
2:K:236:VAL:HG23	2:K:437:VAL:HA	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:449:LEU:HB3	2:K:452:TRP:CE3	2.34	0.62
2:J:153:ILE:HD11	8:J:484:FAD:N1A	2.13	0.62
2:G:318:CYS:O	2:G:345:ILE:HD13	1.99	0.62
2:G:350:PRO:HG3	2:G:380:PRO:CG	2.28	0.62
2:H:92:GLU:OE2	2:H:202:ARG:HD3	1.99	0.62
1:E:143:GLN:C	1:E:143:GLN:HE21	2.01	0.62
1:D:235:ASN:HD21	1:D:328:ASP:HB3	1.64	0.62
1:C:643:ASN:HD22	1:C:665:THR:HB	1.64	0.62
1:C:403:ASP:OD2	1:C:407:LYS:NZ	2.32	0.62
1:C:465:LEU:HD12	1:C:465:LEU:O	1.98	0.62
2:J:478:VAL:HG23	2:J:479:ALA:N	2.14	0.62
1:C:1221:PRO:CG	1:C:1229:MET:HE1	2.28	0.62
1:C:902:ASN:ND2	1:E:1227:GLU:CG	2.62	0.62
1:A:1374:VAL:O	1:A:1375:ILE:HG13	1.98	0.62
1:E:227:MET:HE2	1:E:282:GLU:HG2	1.81	0.62
1:E:1395:TYR:CZ	1:E:1397:LEU:HD21	2.34	0.62
1:D:260:MET:O	1:D:263:LEU:N	2.31	0.62
2:G:63:ASN:HA	2:G:87:THR:HG21	1.82	0.62
1:A:731:SER:HA	1:A:747:SER:HB2	1.80	0.62
1:E:732:ARG:NH1	1:F:94:GLU:OE2	2.28	0.62
2:I:353:PHE:CE1	2:I:370:GLY:HA3	2.33	0.62
2:I:449:LEU:HB3	2:I:452:TRP:CE3	2.34	0.62
2:H:92:GLU:OE2	2:H:202:ARG:HB3	2.00	0.62
2:L:178:ARG:HB2	2:L:219:GLU:OE1	1.98	0.62
1:B:423:THR:OG1	1:B:540:THR:HG22	2.00	0.62
1:F:528:ASN:CB	1:F:542:LEU:HD22	2.29	0.62
1:F:1389:GLY:HA2	1:F:1459:PRO:HG2	1.81	0.62
2:K:305:VAL:HG11	2:K:342:VAL:HG21	1.82	0.62
1:B:218:THR:HG22	1:B:221:LEU:H	1.62	0.62
2:H:197:LYS:HB3	2:H:273:LEU:HG	1.81	0.62
1:B:658:LEU:HD23	1:B:666:VAL:CG2	2.29	0.62
1:F:146:LEU:C	1:F:146:LEU:HD12	2.19	0.62
1:C:1289:MET:HE3	1:C:1289:MET:H	1.64	0.62
1:B:74:GLY:CA	1:B:172:LEU:HD13	2.30	0.62
1:D:1290:GLY:O	1:D:1291:ASP:HB3	1.99	0.62
1:A:782:ARG:CG	2:J:56:GLN:HE21	2.13	0.62
1:E:1221:PRO:HG2	1:E:1229:MET:HE1	1.81	0.62
1:A:1435:THR:HG23	1:A:1437:SER:H	1.63	0.62
1:C:1376:LEU:HB3	1:C:1439:PHE:CE1	2.32	0.62
1:A:1449:ARG:CB	1:A:1449:ARG:NH1	2.14	0.62
1:A:515:ARG:NH2	1:A:966:ILE:HB	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:186:LEU:HD11	2:K:200:VAL:CB	2.28	0.62
2:K:92:GLU:OE2	2:K:202:ARG:HB3	2.00	0.62
2:J:309:ILE:HD11	2:J:340:GLU:OE2	1.98	0.62
2:L:71:LEU:HD13	2:L:71:LEU:C	2.20	0.62
2:H:478:VAL:HG23	2:H:479:ALA:N	2.14	0.62
1:D:528:ASN:CB	1:D:542:LEU:HD22	2.29	0.62
1:F:227:MET:HE2	1:F:282:GLU:HG2	1.82	0.62
1:D:1131:THR:CG2	1:D:1133:GLU:HB2	2.29	0.62
1:D:1135:VAL:O	1:D:1136:VAL:C	2.33	0.62
1:A:643:ASN:HD22	1:A:665:THR:HB	1.63	0.62
1:E:643:ASN:HD22	1:E:665:THR:HG21	1.65	0.62
1:F:37:ASP:C	1:F:37:ASP:OD1	2.37	0.62
1:D:266:VAL:O	1:D:279:THR:HG23	1.98	0.62
1:F:658:LEU:HD23	1:F:666:VAL:CG2	2.29	0.62
1:D:643:ASN:HB3	1:D:665:THR:CG2	2.29	0.62
1:F:339:ARG:HG3	1:F:396:GLN:HG3	1.80	0.62
1:C:695:ASN:O	1:C:696:TYR:C	2.37	0.62
1:D:885:GLY:C	1:D:887:GLY:H	2.01	0.62
1:F:152:ARG:O	1:F:156:GLU:HB2	1.99	0.62
1:A:1417:VAL:HG12	1:A:1419:HIS:H	1.64	0.62
1:F:1290:GLY:O	1:F:1291:ASP:HB3	1.99	0.62
1:B:1228:LYS:HD3	1:D:901:ASP:OD1	2.00	0.62
1:E:453:ALA:O	1:E:761:GLN:HG3	1.98	0.62
1:E:782:ARG:CB	2:L:53:PRO:HD2	2.19	0.62
1:F:1105:VAL:HA	2:I:54:PHE:HE1	1.64	0.62
1:B:1105:VAL:HA	2:G:54:PHE:CE1	2.34	0.62
1:C:293:MET:HG2	1:C:410:LEU:HD23	1.82	0.62
2:G:71:LEU:HD13	2:G:71:LEU:C	2.20	0.62
2:K:264:TYR:HE2	2:K:307:THR:HG23	1.61	0.62
1:C:731:SER:HA	1:C:747:SER:HB2	1.80	0.62
2:I:345:ILE:CD1	2:I:345:ILE:H	2.09	0.62
2:K:431:MET:HG2	2:K:438:PHE:CE2	2.34	0.62
2:J:77:LEU:O	2:J:127:ILE:HD11	1.98	0.62
2:G:350:PRO:CD	2:G:374:ALA:HB2	2.29	0.62
2:H:90:PHE:HA	2:H:203:ARG:HH21	1.64	0.62
1:D:938:PRO:O	1:D:939:GLY:C	2.35	0.62
1:D:423:THR:OG1	1:D:540:THR:HG22	2.00	0.62
1:D:510:PRO:HD2	1:D:970:PRO:HB3	1.81	0.62
1:D:602:THR:O	1:D:640:THR:HG22	1.99	0.62
1:A:891:PRO:HB3	1:A:894:PHE:CE2	2.34	0.62
1:C:908:LYS:HE2	1:C:924:GLN:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1171:VAL:O	1:E:1171:VAL:HG12	2.00	0.62
1:C:1109:HIS:ND1	1:C:1109:HIS:N	2.45	0.62
2:G:134:GLN:HB3	2:G:136:TRP:CD1	2.35	0.62
1:B:1159:ASN:O	1:B:1161:VAL:N	2.32	0.62
1:F:296:MET:O	1:F:297:MET:C	2.33	0.62
1:C:1104:MET:C	2:K:54:PHE:CZ	2.67	0.62
1:D:1230:GLN:N	1:F:877:ARG:CG	2.61	0.62
1:B:900:GLY:HA2	1:F:1263:HIS:NE2	2.10	0.62
1:E:1220:ARG:HB3	1:E:1221:PRO:HD3	1.81	0.62
1:C:1395:TYR:CZ	1:C:1397:LEU:HD21	2.34	0.62
1:C:1438:ARG:HB3	2:J:375:THR:HA	1.80	0.62
1:B:782:ARG:NH2	2:G:51:GLY:HA2	0.72	0.62
2:G:99:PRO:HD2	2:G:449:LEU:HD13	1.82	0.62
1:E:57:ASP:O	1:E:60:LYS:N	2.32	0.62
1:C:512:ASP:OD2	1:C:1367:TYR:OH	2.12	0.62
2:I:317:LYS:HE3	2:I:345:ILE:HG21	1.81	0.62
2:H:350:PRO:CD	2:H:374:ALA:HB2	2.30	0.62
2:I:69:LEU:O	2:I:72:THR:HG23	2.00	0.62
2:J:120:ILE:O	2:J:123:VAL:HG23	1.98	0.62
2:J:241:GLY:H	2:J:443:ILE:HG23	1.64	0.62
2:J:449:LEU:HB3	2:J:452:TRP:CE3	2.34	0.62
2:G:317:LYS:HE3	2:G:345:ILE:HG21	1.81	0.62
2:H:63:ASN:HA	2:H:87:THR:HG21	1.82	0.62
2:H:71:LEU:C	2:H:71:LEU:HD13	2.20	0.62
2:H:71:LEU:HD22	2:H:71:LEU:C	2.20	0.62
1:B:515:ARG:NE	1:B:1367:TYR:CE1	2.68	0.62
1:F:295:LYS:HZ3	1:F:299:VAL:HG12	1.64	0.62
2:H:418:THR:CA	2:H:424:LEU:HD21	2.28	0.62
1:B:1389:GLY:HA2	1:B:1459:PRO:HG2	1.81	0.62
1:D:569:ILE:HD13	1:D:569:ILE:N	2.12	0.62
1:A:47:HIS:HE1	1:A:176:SER:HB3	1.63	0.62
1:B:146:LEU:HD12	1:B:146:LEU:C	2.19	0.62
1:C:978:GLU:O	1:C:981:ALA:HB3	1.99	0.62
1:B:171:SER:OG	1:B:177:ILE:HA	2.00	0.62
1:D:518:ARG:NH2	1:D:1382:ASN:HD22	1.98	0.62
1:F:74:GLY:CA	1:F:172:LEU:HD13	2.30	0.62
2:L:134:GLN:HB3	2:L:136:TRP:CD1	2.35	0.62
1:A:884:SER:OG	1:A:885:GLY:N	2.33	0.62
1:A:394:ASP:OD1	1:A:394:ASP:C	2.37	0.62
1:B:351:ARG:HE	1:B:351:ARG:HA	1.64	0.62
1:C:312:ASN:OD1	1:C:312:ASN:N	2.22	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:491:LYS:O	1:C:492:TYR:C	2.35	0.62
1:A:1227:GLU:CD	1:E:902:ASN:CG	2.57	0.62
1:A:1221:PRO:HD2	1:A:1229:MET:HE1	1.79	0.62
1:E:1222:LEU:C	1:E:1222:LEU:HD12	2.16	0.62
2:L:351:GLU:HB3	2:L:353:PHE:HB3	1.80	0.62
1:F:482:ASP:OD1	1:F:788:HIS:CD2	2.53	0.62
1:D:1112:THR:O	1:D:1114:PRO:HD3	1.99	0.62
1:C:520:MET:HE1	1:C:705:LEU:HB3	1.82	0.62
1:B:1105:VAL:HG23	2:G:54:PHE:HE1	1.64	0.62
1:F:260:MET:O	1:F:263:LEU:N	2.31	0.62
1:A:57:ASP:O	1:A:60:LYS:N	2.32	0.62
2:I:321:ARG:HA	2:I:352:GLY:H	1.62	0.62
2:I:354:THR:HA	2:I:369:LEU:HG	1.80	0.62
2:J:63:ASN:HA	2:J:87:THR:HG21	1.82	0.62
2:I:281:GLU:HG3	2:I:284:SER:N	2.11	0.62
2:L:434:MET:HB2	2:L:437:VAL:HG12	1.82	0.62
2:L:259:VAL:HG21	2:L:264:TYR:CB	2.14	0.62
1:F:704:LEU:C	1:F:706:LYS:N	2.49	0.62
2:H:186:LEU:HD11	2:H:200:VAL:CB	2.28	0.62
2:H:220:VAL:HG23	8:H:484:FAD:C6A	2.27	0.62
2:H:69:LEU:O	2:H:72:THR:HG23	2.00	0.62
1:F:235:ASN:HD21	1:F:328:ASP:HB3	1.64	0.62
1:F:236:THR:HG22	1:F:328:ASP:H	1.62	0.62
1:F:295:LYS:CD	1:F:390:MET:HE3	2.22	0.62
1:D:464:ILE:CD1	1:D:779:TYR:CZ	2.81	0.62
2:I:305:VAL:HG11	2:I:342:VAL:HG21	1.82	0.62
2:L:197:LYS:HD3	2:L:274:GLY:N	2.15	0.62
1:A:603:HIS:HA	1:A:640:THR:HG22	1.81	0.62
2:H:197:LYS:HD3	2:H:274:GLY:N	2.15	0.62
2:K:197:LYS:HD3	2:K:274:GLY:N	2.15	0.62
1:E:908:LYS:HE2	1:E:924:GLN:O	1.99	0.62
1:E:24:ALA:CB	1:E:207:TYR:CE2	2.82	0.62
1:D:658:LEU:HD23	1:D:666:VAL:CG2	2.29	0.62
1:B:355:TYR:CD1	1:B:355:TYR:C	2.72	0.62
1:B:339:ARG:HG3	1:B:396:GLN:HG3	1.80	0.62
1:C:182:MET:HE3	1:C:217:PRO:HB3	1.67	0.62
1:A:1356:VAL:HG22	1:A:1374:VAL:CG2	2.30	0.62
2:L:317:LYS:CE	2:L:345:ILE:HD12	2.30	0.62
1:D:479:MET:HG3	1:D:1104:MET:CE	2.30	0.62
1:B:780:ARG:NH1	2:G:50:CYS:CB	2.54	0.62
2:K:353:PHE:CE1	2:K:370:GLY:HA3	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:430:LYS:HD2	2:G:460:ALA:HB2	1.82	0.62
2:K:179:TYR:HB2	2:K:181:ARG:HH12	1.64	0.62
2:K:90:PHE:HA	2:K:203:ARG:HH21	1.64	0.62
2:K:69:LEU:O	2:K:72:THR:HG23	2.00	0.62
2:I:258:ILE:HA	2:I:395:VAL:HG23	1.82	0.62
1:F:602:THR:O	1:F:640:THR:HG22	1.99	0.62
1:C:426:LEU:HD11	1:C:558:MET:HG3	1.79	0.62
1:C:643:ASN:HD22	1:C:665:THR:HG21	1.65	0.62
1:B:918:THR:HG22	1:B:921:TYR:N	2.13	0.62
2:I:197:LYS:HB3	2:I:273:LEU:HG	1.81	0.62
2:I:478:VAL:HG23	2:I:479:ALA:N	2.14	0.62
1:A:209:GLN:HG3	1:A:210:ARG:N	2.13	0.62
1:B:976:SER:OG	1:B:978:GLU:HG3	2.00	0.62
1:E:884:SER:OG	1:E:885:GLY:N	2.33	0.62
1:B:1290:GLY:O	1:B:1291:ASP:HB3	1.99	0.62
1:D:394:ASP:OD1	1:D:394:ASP:C	2.38	0.62
1:B:1218:ASP:OD1	1:D:851:LYS:NZ	2.33	0.62
1:E:493:ARG:NH2	1:E:786:ASP:OD1	2.32	0.62
1:D:1228:LYS:HD3	1:F:901:ASP:OD1	2.00	0.62
1:D:1227:GLU:OE1	1:F:876:ASN:HB2	2.00	0.62
1:B:877:ARG:HD3	1:F:1230:GLN:HB2	1.82	0.62
1:F:479:MET:HG3	1:F:1104:MET:CE	2.30	0.62
1:D:482:ASP:OD1	1:D:788:HIS:CD2	2.53	0.62
2:K:350:PRO:CD	2:K:374:ALA:HB2	2.29	0.62
1:A:293:MET:HG2	1:A:410:LEU:HD23	1.82	0.62
1:D:442:MET:HE3	1:D:446:GLU:HB3	1.82	0.62
1:A:515:ARG:HD3	1:A:1367:TYR:CE1	2.31	0.62
2:K:120:ILE:O	2:K:123:VAL:HG23	1.98	0.62
2:K:241:GLY:H	2:K:443:ILE:HG23	1.64	0.62
2:I:99:PRO:HD2	2:I:449:LEU:HD13	1.82	0.62
2:I:71:LEU:HD13	2:I:71:LEU:C	2.20	0.62
2:L:153:ILE:O	2:L:239:ALA:HB3	1.99	0.62
2:L:99:PRO:HD2	2:L:449:LEU:HD13	1.82	0.62
2:L:449:LEU:HB3	2:L:452:TRP:CE3	2.34	0.62
2:L:286:ASN:O	2:L:311:GLN:HB2	2.00	0.62
2:L:394:LEU:CD2	2:L:396:ILE:HD12	2.30	0.62
2:H:241:GLY:H	2:H:443:ILE:HG23	1.64	0.62
1:A:295:LYS:C	1:A:295:LYS:HD3	2.19	0.62
1:B:602:THR:O	1:B:640:THR:HG22	1.99	0.62
1:D:1210:THR:HG22	1:D:1211:LEU:N	2.09	0.62
1:B:657:VAL:HG12	1:B:658:LEU:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1109:HIS:ND1	1:F:1109:HIS:N	2.44	0.62
1:C:1171:VAL:O	1:C:1171:VAL:HG12	2.00	0.62
1:C:1417:VAL:HG12	1:C:1419:HIS:H	1.64	0.62
1:B:901:ASP:OD1	1:F:1228:LYS:HD3	2.00	0.62
1:A:1438:ARG:HB3	2:L:375:THR:HA	1.80	0.62
2:J:318:CYS:O	2:J:345:ILE:HD13	1.99	0.62
1:D:1105:VAL:HA	2:H:54:PHE:HE1	1.64	0.62
2:K:349:ALA:HB3	2:K:374:ALA:HB2	1.82	0.62
1:F:1131:THR:CG2	1:F:1133:GLU:OE1	2.42	0.62
2:G:415:LEU:HG	2:G:432:THR:HG21	1.82	0.62
1:C:57:ASP:O	1:C:60:LYS:N	2.32	0.62
2:J:267:THR:HG21	2:J:286:ASN:HD21	1.61	0.62
1:D:1442:GLU:OE2	2:I:374:ALA:C	2.37	0.62
2:H:318:CYS:O	2:H:345:ILE:HD13	1.99	0.62
2:I:153:ILE:O	2:I:239:ALA:HB3	1.99	0.62
2:J:71:LEU:C	2:J:71:LEU:HD22	2.20	0.62
2:I:286:ASN:O	2:I:311:GLN:HB2	2.00	0.62
2:I:394:LEU:CD2	2:I:396:ILE:HD12	2.30	0.62
2:G:349:ALA:HB3	2:G:374:ALA:HB2	1.82	0.62
1:F:521:SER:OG	1:F:522:LEU:N	2.33	0.62
2:H:120:ILE:O	2:H:123:VAL:HG23	1.98	0.62
2:H:99:PRO:HD2	2:H:449:LEU:HD13	1.82	0.62
2:J:418:THR:CA	2:J:424:LEU:HD21	2.28	0.62
1:F:227:MET:HE2	1:F:282:GLU:CG	2.29	0.62
1:C:80:ARG:HD3	1:C:125:ARG:O	1.98	0.62
1:E:403:ASP:OD2	1:E:407:LYS:NZ	2.32	0.62
1:F:518:ARG:NH2	1:F:1382:ASN:HD22	1.98	0.62
1:A:1171:VAL:HG12	1:A:1171:VAL:O	2.00	0.62
1:A:782:ARG:NE	2:J:53:PRO:CD	2.59	0.61
1:B:876:ASN:HB2	1:F:1227:GLU:OE1	2.00	0.61
1:A:1375:ILE:C	1:A:1376:LEU:HD23	2.19	0.61
1:C:1401:LEU:HD11	1:C:1405:ILE:HD12	1.82	0.61
1:E:938:PRO:HG2	1:E:1041:ALA:HB1	1.81	0.61
1:C:970:PRO:O	1:C:970:PRO:HG2	2.00	0.61
1:A:291:ALA:HB3	1:A:292:PRO:CD	2.27	0.61
2:G:95:GLY:C	2:G:125:LYS:HD2	2.19	0.61
2:G:92:GLU:OE2	2:G:202:ARG:HB3	2.00	0.61
2:J:258:ILE:HA	2:J:395:VAL:HG23	1.82	0.61
2:K:71:LEU:HD13	2:K:71:LEU:C	2.20	0.61
2:H:317:LYS:CE	2:H:345:ILE:HD12	2.30	0.61
2:H:179:TYR:HB2	2:H:181:ARG:HH12	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:220:VAL:HG23	8:J:484:FAD:C6A	2.27	0.61
2:J:92:GLU:OE2	2:J:202:ARG:HB3	2.00	0.61
2:J:99:PRO:HD2	2:J:449:LEU:HD13	1.82	0.61
2:L:69:LEU:O	2:L:72:THR:HG23	2.00	0.61
2:L:258:ILE:HA	2:L:395:VAL:HG23	1.82	0.61
1:B:235:ASN:HD21	1:B:328:ASP:HB3	1.64	0.61
1:A:295:LYS:HZ1	1:A:299:VAL:HG12	1.65	0.61
1:B:957:ARG:HH11	1:B:965:LEU:HD12	1.65	0.61
2:H:305:VAL:HG11	2:H:342:VAL:HG21	1.82	0.61
1:F:657:VAL:HG12	1:F:658:LEU:N	2.15	0.61
1:D:794:VAL:HG21	1:D:817:VAL:HG23	1.82	0.61
1:F:510:PRO:HD2	1:F:970:PRO:HB3	1.81	0.61
1:F:355:TYR:CD1	1:F:355:TYR:C	2.72	0.61
1:B:439:PRO:HG2	1:B:439:PRO:O	1.99	0.61
1:D:171:SER:OG	1:D:177:ILE:HA	2.00	0.61
2:H:134:GLN:HB3	2:H:136:TRP:CD1	2.35	0.61
2:J:134:GLN:HB3	2:J:136:TRP:CD1	2.35	0.61
1:B:1227:GLU:OE1	1:D:876:ASN:HB2	2.00	0.61
1:E:443:ASP:O	1:E:444:LYS:C	2.39	0.61
1:E:782:ARG:CG	2:L:56:GLN:HE21	2.13	0.61
1:A:1227:GLU:CD	1:E:876:ASN:HB3	2.21	0.61
2:L:349:ALA:HB3	2:L:374:ALA:HB2	1.82	0.61
2:J:317:LYS:HE3	2:J:345:ILE:HG21	1.81	0.61
1:F:1105:VAL:HA	2:I:54:PHE:CE1	2.34	0.61
1:E:531:ASN:O	1:E:532:ILE:C	2.38	0.61
2:H:258:ILE:HA	2:H:395:VAL:HG23	1.82	0.61
2:G:236:VAL:HG23	2:G:437:VAL:HA	1.80	0.61
2:G:434:MET:HB2	2:G:437:VAL:HG12	1.82	0.61
2:K:415:LEU:HG	2:K:432:THR:HG21	1.82	0.61
2:K:99:PRO:HD2	2:K:449:LEU:HD13	1.82	0.61
2:I:415:LEU:HG	2:I:432:THR:HG21	1.82	0.61
2:J:71:LEU:C	2:J:71:LEU:HD13	2.20	0.61
1:E:235:ASN:ND2	1:E:235:ASN:C	2.52	0.61
1:B:417:ASP:O	1:B:420:VAL:N	2.33	0.61
1:E:1062:ARG:O	1:E:1062:ARG:CG	2.43	0.61
1:C:423:THR:OG1	1:C:540:THR:HG22	2.00	0.61
2:J:197:LYS:HB3	2:J:273:LEU:HG	1.81	0.61
1:F:1121:ASP:OD1	1:F:1123:LYS:N	2.34	0.61
1:A:24:ALA:CB	1:A:207:TYR:CE2	2.82	0.61
1:D:1447:TRP:O	1:D:1451:VAL:HG23	1.98	0.61
1:B:794:VAL:HG21	1:B:817:VAL:HG23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:243:TRP:HA	1:F:243:TRP:CE3	2.35	0.61
1:C:782:ARG:CG	2:K:56:GLN:HE21	2.13	0.61
1:A:1447:TRP:CD2	1:A:1451:VAL:HG22	2.33	0.61
1:C:1393:TYR:O	1:C:1394:VAL:CG2	2.44	0.61
1:A:938:PRO:HG2	1:A:1041:ALA:HB1	1.81	0.61
1:B:1112:THR:O	1:B:1114:PRO:HD3	1.99	0.61
2:K:317:LYS:HE3	2:K:345:ILE:HG21	1.81	0.61
1:B:442:MET:HE3	1:B:446:GLU:HB3	1.81	0.61
2:G:153:ILE:HG12	2:G:220:VAL:CG1	2.30	0.61
2:J:286:ASN:O	2:J:311:GLN:HB2	2.00	0.61
2:J:394:LEU:CD2	2:J:396:ILE:HD12	2.30	0.61
2:I:349:ALA:HB3	2:I:374:ALA:HB2	1.82	0.61
2:K:478:VAL:HG23	2:K:479:ALA:N	2.14	0.61
2:K:63:ASN:HA	2:K:87:THR:HG21	1.82	0.61
2:K:71:LEU:HD22	2:K:71:LEU:C	2.20	0.61
2:H:327:MET:HB2	2:H:346:TRP:HZ2	1.65	0.61
2:H:349:ALA:HB3	2:H:374:ALA:HB2	1.82	0.61
2:I:63:ASN:HA	2:I:87:THR:HG21	1.82	0.61
2:J:49:GLN:HE22	2:J:69:LEU:HG	1.65	0.61
2:H:49:GLN:HE22	2:H:69:LEU:HG	1.65	0.61
2:I:181:ARG:HD3	2:I:187:VAL:HB	1.83	0.61
2:G:417:VAL:C	2:G:424:LEU:HD22	2.21	0.61
1:B:1221:PRO:HD2	1:B:1229:MET:CE	2.26	0.61
2:J:417:VAL:C	2:J:424:LEU:HD22	2.21	0.61
1:F:423:THR:OG1	1:F:540:THR:HG22	2.00	0.61
2:J:305:VAL:HG11	2:J:342:VAL:HG21	1.82	0.61
1:C:320:CYS:O	1:C:323:VAL:N	2.33	0.61
1:F:279:THR:HG22	1:F:280:VAL:N	2.16	0.61
1:B:353:MET:HG2	1:B:385:LEU:CD2	2.29	0.61
1:D:976:SER:OG	1:D:978:GLU:HG3	2.00	0.61
1:F:394:ASP:OD1	1:F:394:ASP:C	2.38	0.61
1:A:1109:HIS:ND1	1:A:1109:HIS:N	2.45	0.61
1:D:1383:PHE:O	1:D:1384:ALA:HB3	2.00	0.61
1:E:446:GLU:O	1:E:447:LEU:C	2.36	0.61
1:E:693:MET:O	1:E:694:ALA:C	2.37	0.61
1:C:450:ARG:O	1:C:451:GLN:C	2.37	0.61
1:C:782:ARG:HG3	2:K:52:VAL:CB	2.18	0.61
1:C:876:ASN:HB3	1:E:1227:GLU:CD	2.21	0.61
1:C:1356:VAL:HG22	1:C:1374:VAL:CG2	2.30	0.61
1:C:1395:TYR:CE2	1:C:1443:ILE:HD13	2.36	0.61
2:G:132:TRP:HD1	2:G:202:ARG:HB2	1.60	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:165:GLU:HB3	2:G:169:LYS:HZ3	1.65	0.61
2:K:271:VAL:CG2	2:K:285:LEU:HG	2.31	0.61
1:E:511:ILE:CG2	1:E:512:ASP:N	2.59	0.61
2:J:181:ARG:HD3	2:J:187:VAL:HB	1.83	0.61
1:D:1401:LEU:N	1:D:1402:PRO:HD2	2.15	0.61
2:I:92:GLU:OE2	2:I:202:ARG:HB3	2.00	0.61
2:I:96:ARG:HH21	2:I:199:VAL:HG21	1.66	0.61
2:J:69:LEU:O	2:J:72:THR:HG23	2.00	0.61
2:L:153:ILE:HG12	2:L:220:VAL:CG1	2.31	0.61
1:B:521:SER:OG	1:B:522:LEU:N	2.33	0.61
2:K:383:ILE:HD12	2:K:386:SER:N	2.16	0.61
1:D:515:ARG:NE	1:D:1367:TYR:CE1	2.68	0.61
2:K:242:VAL:CG1	2:K:403:PRO:HD3	2.21	0.61
1:E:47:HIS:HE1	1:E:176:SER:HB3	1.63	0.61
1:F:957:ARG:HH11	1:F:965:LEU:HD12	1.65	0.61
1:A:423:THR:OG1	1:A:540:THR:HG22	2.00	0.61
1:E:423:THR:OG1	1:E:540:THR:HG22	2.00	0.61
1:D:1121:ASP:OD1	1:D:1123:LYS:N	2.33	0.61
1:B:59:VAL:HG22	1:B:105:TYR:CD2	2.33	0.61
1:E:1300:LEU:HD12	1:E:1301:SER:H	1.64	0.61
1:D:1218:ASP:OD1	1:F:851:LYS:NZ	2.33	0.61
1:D:296:MET:O	1:D:297:MET:C	2.33	0.61
1:D:119:GLU:O	1:D:120:LYS:C	2.39	0.61
1:D:74:GLY:CA	1:D:172:LEU:HD13	2.30	0.61
1:F:1383:PHE:O	1:F:1384:ALA:HB3	2.00	0.61
1:F:885:GLY:C	1:F:887:GLY:H	2.01	0.61
1:C:672:GLN:HG3	1:C:693:MET:HE1	1.79	0.61
1:C:780:ARG:CG	2:K:51:GLY:O	2.48	0.61
1:A:1395:TYR:CE2	1:A:1443:ILE:HD13	2.36	0.61
1:A:1450:GLU:OE1	1:A:1453:LYS:NZ	2.24	0.61
2:J:349:ALA:HB3	2:J:374:ALA:HB2	1.82	0.61
1:C:1442:GLU:HG3	2:J:374:ALA:O	2.01	0.61
1:B:482:ASP:OD1	1:B:788:HIS:CD2	2.53	0.61
1:E:1356:VAL:HG22	1:E:1374:VAL:CG2	2.30	0.61
1:E:1424:LEU:HD23	1:E:1428:ILE:HG13	1.83	0.61
1:C:629:THR:O	1:C:630:HIS:C	2.37	0.61
1:B:450:ARG:O	1:B:452:GLN:N	2.34	0.61
2:J:271:VAL:HG13	2:J:281:GLU:HG2	1.83	0.61
2:K:207:LEU:CD1	2:K:212:VAL:HG11	2.31	0.61
2:K:153:ILE:HG12	2:K:220:VAL:CG1	2.30	0.61
2:I:207:LEU:CD1	2:I:212:VAL:HG11	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:383:ILE:HD12	2:H:386:SER:N	2.16	0.61
1:C:143:GLN:HE21	1:C:143:GLN:CA	2.14	0.61
2:G:271:VAL:HG13	2:G:281:GLU:HG2	1.83	0.61
2:L:96:ARG:HH21	2:L:199:VAL:HG21	1.66	0.61
2:L:175:VAL:CG1	2:L:214:TYR:HA	2.23	0.61
2:L:271:VAL:HG13	2:L:281:GLU:HG2	1.83	0.61
1:E:1391:MET:HE1	1:E:1458:VAL:CG2	2.30	0.61
1:D:957:ARG:HH11	1:D:965:LEU:HD12	1.65	0.61
1:A:643:ASN:HD22	1:A:665:THR:HG21	1.65	0.61
1:F:908:LYS:HD2	1:F:921:TYR:CE1	2.36	0.61
1:D:572:THR:HG22	1:D:573:PHE:N	2.16	0.61
1:D:146:LEU:HD12	1:D:146:LEU:C	2.19	0.61
1:C:45:GLY:HA2	1:C:180:LYS:HA	1.81	0.61
1:D:806:SER:OG	1:D:809:THR:N	2.31	0.61
1:F:806:SER:OG	1:F:809:THR:N	2.31	0.61
1:C:884:SER:OG	1:C:885:GLY:N	2.33	0.61
1:B:479:MET:HG3	1:B:1104:MET:CE	2.30	0.61
1:A:531:ASN:O	1:A:532:ILE:C	2.38	0.61
1:F:1084:MET:SD	1:F:1168:LEU:HD23	2.41	0.61
2:G:96:ARG:HH21	2:G:199:VAL:HG21	1.66	0.61
2:G:69:LEU:O	2:G:72:THR:HG23	2.00	0.61
2:I:349:ALA:CB	2:I:350:PRO:HD3	2.31	0.61
2:I:434:MET:HB2	2:I:437:VAL:HG12	1.82	0.61
2:I:241:GLY:H	2:I:443:ILE:HG23	1.64	0.61
1:E:603:HIS:HA	1:E:640:THR:HG22	1.81	0.61
2:J:197:LYS:HD3	2:J:274:GLY:N	2.15	0.61
1:B:1121:ASP:OD1	1:B:1123:LYS:N	2.33	0.61
1:C:351:ARG:HA	1:C:351:ARG:HE	1.66	0.61
1:A:45:GLY:HA2	1:A:180:LYS:HA	1.81	0.61
2:K:134:GLN:HB3	2:K:136:TRP:CD1	2.35	0.61
1:B:851:LYS:NZ	1:F:1218:ASP:OD1	2.33	0.61
1:A:450:ARG:O	1:A:451:GLN:C	2.37	0.61
1:A:1114:PRO:HG3	2:J:109:VAL:O	2.01	0.61
1:E:1376:LEU:HB3	1:E:1439:PHE:CE1	2.32	0.61
2:K:317:LYS:CE	2:K:345:ILE:HD12	2.30	0.61
1:E:293:MET:HG2	1:E:410:LEU:HD23	1.82	0.61
1:B:447:LEU:HD21	1:B:674:ALA:CA	2.29	0.61
2:K:286:ASN:O	2:K:311:GLN:HB2	2.00	0.61
1:A:511:ILE:HG22	1:A:512:ASP:H	1.61	0.61
2:I:447:ALA:HB1	2:I:452:TRP:HE3	1.65	0.61
2:G:394:LEU:CD2	2:G:396:ILE:HD12	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:92:GLU:OE2	2:L:202:ARG:HB3	2.00	0.61
2:L:90:PHE:HA	2:L:203:ARG:HH21	1.64	0.61
2:L:220:VAL:HG22	8:L:484:FAD:C6A	2.29	0.61
2:L:430:LYS:HD2	2:L:460:ALA:HB2	1.82	0.61
2:H:207:LEU:CD1	2:H:212:VAL:HG11	2.31	0.61
1:B:1230:GLN:HB2	1:D:877:ARG:HD3	1.82	0.61
1:B:653:HIS:O	1:B:654:TYR:C	2.39	0.61
2:K:383:ILE:CD1	2:K:386:SER:H	2.12	0.61
1:A:102:TYR:HE2	1:A:144:PHE:CE1	2.12	0.61
1:E:320:CYS:O	1:E:323:VAL:N	2.33	0.61
1:A:107:TRP:N	1:A:107:TRP:CD1	2.69	0.61
2:G:478:VAL:HG23	2:G:479:ALA:N	2.14	0.61
2:L:478:VAL:HG23	2:L:479:ALA:N	2.14	0.61
1:F:794:VAL:HG21	1:F:817:VAL:HG23	1.82	0.61
1:F:351:ARG:HA	1:F:351:ARG:HE	1.64	0.61
1:B:102:TYR:CE1	1:B:144:PHE:CE1	2.89	0.61
1:A:782:ARG:CB	2:J:56:GLN:NE2	2.38	0.61
1:A:876:ASN:HB3	1:C:1227:GLU:CD	2.21	0.61
1:A:1424:LEU:HD23	1:A:1428:ILE:HG13	1.83	0.61
2:L:345:ILE:CD1	2:L:345:ILE:H	2.09	0.61
2:L:349:ALA:CB	2:L:350:PRO:HD3	2.31	0.61
2:J:317:LYS:CE	2:J:345:ILE:HD12	2.30	0.61
2:J:350:PRO:HG3	2:J:380:PRO:CB	2.31	0.61
1:F:782:ARG:N	2:I:52:VAL:CB	2.64	0.61
1:D:1114:PRO:HA	2:H:112:GLN:C	1.84	0.61
1:A:970:PRO:HG2	1:A:970:PRO:O	2.00	0.61
1:F:447:LEU:C	1:F:447:LEU:HD12	2.21	0.61
2:H:286:ASN:O	2:H:311:GLN:HB2	2.00	0.61
2:K:258:ILE:HA	2:K:395:VAL:HG23	1.82	0.61
2:K:174:HIS:HE1	2:K:215:HIS:CB	2.14	0.61
2:H:302:MET:HE3	2:H:334:VAL:HA	1.83	0.61
2:H:317:LYS:HE3	2:H:345:ILE:HG21	1.81	0.61
2:H:349:ALA:CB	2:H:350:PRO:HD3	2.31	0.61
2:I:49:GLN:HE22	2:I:69:LEU:HG	1.65	0.61
2:I:71:LEU:HD22	2:I:71:LEU:C	2.20	0.61
2:H:383:ILE:CD1	2:H:386:SER:H	2.12	0.61
2:L:71:LEU:HD22	2:L:71:LEU:C	2.20	0.61
1:A:525:ARG:C	1:A:526:LEU:HD12	2.20	0.61
2:H:220:VAL:HG22	8:H:484:FAD:C6A	2.29	0.61
2:L:417:VAL:C	2:L:424:LEU:HD22	2.21	0.61
2:I:417:VAL:C	2:I:424:LEU:HD22	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:249:THR:O	1:B:249:THR:HG23	1.98	0.61
1:E:1076:GLY:CA	1:E:1145:GLU:HG2	2.29	0.61
1:D:526:LEU:HD12	1:D:526:LEU:H	1.66	0.61
2:G:197:LYS:HD3	2:G:274:GLY:N	2.15	0.61
1:A:565:THR:CG2	1:A:602:THR:HB	2.31	0.61
1:C:107:TRP:CD1	1:C:107:TRP:N	2.69	0.61
1:E:351:ARG:HA	1:E:351:ARG:HE	1.66	0.61
1:C:572:THR:CG2	1:C:615:ARG:HB3	2.31	0.61
1:A:466:HIS:ND1	1:A:678:ARG:NH1	2.46	0.61
1:C:312:ASN:HB2	1:C:411:ALA:HB1	1.83	0.61
1:D:691:LYS:HG3	1:D:691:LYS:O	2.00	0.61
1:F:1159:ASN:O	1:F:1161:VAL:N	2.32	0.61
2:I:134:GLN:HB3	2:I:136:TRP:CD1	2.35	0.61
1:E:780:ARG:NH1	2:L:50:CYS:CB	2.56	0.61
1:D:781:PHE:O	2:H:52:VAL:HB	1.92	0.61
2:K:349:ALA:CB	2:K:350:PRO:HD3	2.31	0.61
1:D:447:LEU:C	1:D:447:LEU:HD12	2.22	0.61
2:H:271:VAL:HG13	2:H:281:GLU:HG2	1.83	0.61
2:K:47:CYS:HB2	2:K:69:LEU:HD21	1.83	0.61
2:H:350:PRO:HG3	2:H:380:PRO:CB	2.31	0.61
2:H:181:ARG:HD3	2:H:187:VAL:HB	1.83	0.61
2:I:153:ILE:HG12	2:I:220:VAL:CG1	2.30	0.61
2:I:415:LEU:HD22	2:I:416:LYS:O	2.01	0.61
2:I:90:PHE:HA	2:I:203:ARG:HH21	1.64	0.61
2:J:174:HIS:HE1	2:J:215:HIS:CB	2.14	0.61
2:G:350:PRO:HG3	2:G:380:PRO:CB	2.31	0.61
2:L:416:LYS:HG3	2:L:433:ASN:HD22	1.66	0.61
2:L:447:ALA:HB1	2:L:452:TRP:HE3	1.65	0.61
2:L:181:ARG:HD3	2:L:187:VAL:HB	1.83	0.61
2:H:174:HIS:HE1	2:H:215:HIS:CB	2.14	0.61
2:H:153:ILE:HG12	2:H:220:VAL:CG1	2.31	0.61
2:L:383:ILE:CD1	2:L:386:SER:H	2.12	0.61
1:D:249:THR:O	1:D:249:THR:HG23	1.98	0.61
1:B:908:LYS:HD2	1:B:921:TYR:CE1	2.36	0.61
1:C:1311:THR:CG2	1:C:1312:SER:H	2.14	0.61
1:C:355:TYR:CD1	1:C:355:TYR:O	2.54	0.61
1:F:976:SER:OG	1:F:978:GLU:HG3	2.00	0.61
1:D:625:GLY:O	1:D:626:ALA:C	2.39	0.61
1:E:1348:VAL:O	1:E:1348:VAL:HG13	1.99	0.61
1:C:394:ASP:OD1	1:C:394:ASP:C	2.37	0.61
1:A:446:GLU:O	1:A:447:LEU:C	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1221:PRO:HG2	1:C:1229:MET:HE1	1.81	0.61
1:C:443:ASP:O	1:C:444:LYS:C	2.39	0.61
1:D:1230:GLN:HB2	1:F:877:ARG:HD3	1.82	0.61
1:C:902:ASN:CA	1:E:1227:GLU:HG2	2.23	0.61
2:L:321:ARG:HA	2:L:352:GLY:H	1.63	0.61
1:D:780:ARG:NH1	2:H:50:CYS:CB	2.54	0.61
1:E:704:LEU:C	1:E:706:LYS:N	2.54	0.61
1:C:531:ASN:O	1:C:532:ILE:C	2.38	0.61
2:G:71:LEU:C	2:G:71:LEU:HD22	2.20	0.61
1:B:1401:LEU:N	1:B:1402:PRO:HD2	2.16	0.61
2:J:90:PHE:HA	2:J:203:ARG:HH21	1.64	0.61
2:J:336:HIS:O	2:J:340:GLU:HG2	2.01	0.61
2:J:415:LEU:HD22	2:J:416:LYS:O	2.01	0.61
2:I:271:VAL:HG13	2:I:281:GLU:HG2	1.83	0.61
2:L:63:ASN:HA	2:L:87:THR:HG21	1.82	0.61
2:H:417:VAL:C	2:H:424:LEU:HD22	2.21	0.61
1:F:572:THR:HG22	1:F:573:PHE:N	2.16	0.61
1:A:320:CYS:O	1:A:323:VAL:N	2.33	0.61
1:A:908:LYS:HE2	1:A:924:GLN:O	2.00	0.61
1:B:499:PHE:HE1	1:B:742:MET:CE	2.14	0.61
1:C:499:PHE:HE2	1:C:742:MET:HE1	1.65	0.61
1:B:1169:HIS:N	1:B:1169:HIS:ND1	2.49	0.61
1:A:1090:PHE:N	1:A:1090:PHE:CD1	2.69	0.61
1:F:102:TYR:CE1	1:F:144:PHE:CE1	2.89	0.61
1:A:782:ARG:HG3	2:J:52:VAL:CB	2.18	0.60
2:K:46:ARG:CZ	2:K:118:VAL:HA	2.32	0.60
1:E:1375:ILE:C	1:E:1376:LEU:HD23	2.19	0.60
1:E:249:THR:CG2	1:E:250:ARG:HG2	2.31	0.60
1:F:1131:THR:HG21	1:F:1133:GLU:HB2	1.83	0.60
2:H:271:VAL:CG2	2:H:285:LEU:HG	2.31	0.60
2:G:471:LYS:HA	2:G:471:LYS:CE	2.23	0.60
1:E:732:ARG:H	1:E:747:SER:HB3	1.65	0.60
2:K:96:ARG:HH21	2:K:199:VAL:HG21	1.66	0.60
2:K:336:HIS:O	2:K:340:GLU:HG2	2.01	0.60
2:I:165:GLU:HB3	2:I:169:LYS:HZ3	1.65	0.60
2:I:175:VAL:CG1	2:I:214:TYR:HA	2.23	0.60
2:J:153:ILE:HG12	2:J:220:VAL:CG1	2.30	0.60
2:J:220:VAL:HG22	8:J:484:FAD:C6A	2.29	0.60
2:J:383:ILE:HD12	2:J:386:SER:N	2.16	0.60
2:G:302:MET:HE3	2:G:334:VAL:HA	1.83	0.60
2:G:258:ILE:HA	2:G:395:VAL:HG23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1230:GLN:N	1:D:877:ARG:CG	2.61	0.60
1:D:417:ASP:O	1:D:420:VAL:N	2.33	0.60
1:E:295:LYS:O	1:E:295:LYS:HD3	2.00	0.60
1:B:1009:ILE:O	1:B:1010:ALA:C	2.37	0.60
2:L:305:VAL:HG11	2:L:342:VAL:HG21	1.82	0.60
1:A:403:ASP:CG	1:A:407:LYS:NZ	2.54	0.60
1:C:565:THR:CG2	1:C:602:THR:HB	2.31	0.60
2:I:197:LYS:HD3	2:I:274:GLY:N	2.15	0.60
1:C:355:TYR:C	1:C:355:TYR:HD1	2.03	0.60
1:A:355:TYR:O	1:A:355:TYR:CD1	2.54	0.60
1:D:243:TRP:HA	1:D:243:TRP:CE3	2.35	0.60
1:F:1169:HIS:N	1:F:1169:HIS:ND1	2.49	0.60
1:A:1348:VAL:HG13	1:A:1348:VAL:O	1.99	0.60
1:B:119:GLU:O	1:B:120:LYS:C	2.39	0.60
1:A:780:ARG:CG	2:J:51:GLY:O	2.48	0.60
1:C:781:PHE:CE2	2:K:57:VAL:CG2	2.82	0.60
2:L:350:PRO:HG3	2:L:380:PRO:CB	2.31	0.60
1:E:259:HIS:O	1:E:260:MET:C	2.39	0.60
2:K:350:PRO:HG3	2:K:380:PRO:CB	2.31	0.60
1:E:1442:GLU:HG3	2:K:374:ALA:O	2.01	0.60
1:C:531:ASN:HB3	1:C:534:ASP:HB2	1.83	0.60
1:E:531:ASN:HB3	1:E:534:ASP:HB2	1.83	0.60
2:K:271:VAL:HG13	2:K:281:GLU:HG2	1.83	0.60
1:A:746:ILE:C	1:A:747:SER:O	2.35	0.60
1:E:734:LEU:C	1:E:734:LEU:HD12	2.21	0.60
2:I:186:LEU:HD11	2:I:200:VAL:CB	2.28	0.60
2:J:439:ALA:HB1	2:J:443:ILE:CD1	2.32	0.60
2:G:317:LYS:CE	2:G:345:ILE:HD12	2.30	0.60
1:F:515:ARG:NE	1:F:1367:TYR:CE1	2.68	0.60
1:C:1391:MET:HE1	1:C:1458:VAL:CG2	2.31	0.60
2:G:383:ILE:HD12	2:G:386:SER:N	2.16	0.60
1:A:842:GLU:HB3	1:A:1156:ARG:HD3	1.84	0.60
1:D:227:MET:HE2	1:D:282:GLU:HG2	1.83	0.60
1:D:227:MET:HE2	1:D:282:GLU:CG	2.31	0.60
1:B:1210:THR:HG22	1:B:1211:LEU:N	2.09	0.60
1:D:908:LYS:HD2	1:D:921:TYR:CE1	2.36	0.60
1:E:1311:THR:CG2	1:E:1312:SER:H	2.14	0.60
1:A:364:ILE:CD1	1:A:374:ILE:HD11	2.30	0.60
1:B:1212:ASP:CG	1:B:1243:GLY:H	2.04	0.60
1:F:142:GLU:CD	1:F:142:GLU:H	2.05	0.60
1:B:142:GLU:H	1:B:142:GLU:CD	2.05	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:142:GLU:CD	1:D:142:GLU:H	2.05	0.60
1:F:171:SER:OG	1:F:177:ILE:HA	2.00	0.60
1:B:312:ASN:HB2	1:B:411:ALA:HB1	1.83	0.60
1:B:989:GLN:O	1:B:1245:ARG:HD3	2.01	0.60
1:B:394:ASP:OD1	1:B:394:ASP:C	2.38	0.60
1:E:1114:PRO:HG3	2:L:109:VAL:O	2.01	0.60
1:A:1227:GLU:OE2	1:E:902:ASN:CG	2.40	0.60
2:I:46:ARG:CZ	2:I:118:VAL:HA	2.32	0.60
1:D:782:ARG:N	2:H:52:VAL:CB	2.64	0.60
1:E:970:PRO:HG2	1:E:970:PRO:O	2.00	0.60
1:B:782:ARG:O	2:G:57:VAL:HG23	1.70	0.60
1:D:1084:MET:SD	1:D:1168:LEU:HD23	2.41	0.60
1:F:450:ARG:O	1:F:452:GLN:N	2.34	0.60
1:D:450:ARG:O	1:D:452:GLN:N	2.34	0.60
2:K:181:ARG:HD3	2:K:187:VAL:HB	1.83	0.60
2:G:181:ARG:HD3	2:G:187:VAL:HB	1.83	0.60
2:H:96:ARG:HH21	2:H:199:VAL:HG21	1.66	0.60
2:H:336:HIS:O	2:H:340:GLU:HG2	2.01	0.60
2:H:434:MET:HB2	2:H:437:VAL:HG12	1.82	0.60
2:G:383:ILE:CD1	2:G:386:SER:H	2.12	0.60
1:F:417:ASP:O	1:F:420:VAL:N	2.33	0.60
1:E:295:LYS:HE2	1:E:299:VAL:CG1	2.31	0.60
1:A:295:LYS:HD3	1:A:295:LYS:O	2.00	0.60
1:C:403:ASP:CG	1:C:407:LYS:NZ	2.54	0.60
1:A:1311:THR:CG2	1:A:1312:SER:H	2.14	0.60
2:G:197:LYS:HD3	2:G:274:GLY:H	1.67	0.60
1:E:603:HIS:CA	1:E:640:THR:HG22	2.32	0.60
2:K:197:LYS:HD3	2:K:274:GLY:H	1.67	0.60
1:B:52:GLN:HE22	1:B:71:LEU:N	1.96	0.60
1:D:1212:ASP:CG	1:D:1243:GLY:H	2.04	0.60
1:C:208:HIS:CD2	1:C:208:HIS:C	2.74	0.60
2:I:361:GLY:O	2:I:362:VAL:HB	2.01	0.60
1:E:1090:PHE:CD1	1:E:1090:PHE:N	2.69	0.60
1:A:547:SER:C	1:A:549:VAL:H	2.05	0.60
2:J:46:ARG:CZ	2:J:118:VAL:HA	2.32	0.60
1:E:761:GLN:O	1:E:764:THR:HB	2.02	0.60
1:E:781:PHE:CE2	2:L:57:VAL:HG11	2.37	0.60
1:C:1114:PRO:HG3	2:K:109:VAL:O	2.01	0.60
1:C:902:ASN:CG	1:E:1227:GLU:OE2	2.40	0.60
2:J:291:HIS:HE1	2:J:317:LYS:HB3	1.67	0.60
1:A:260:MET:O	1:A:263:LEU:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:260:MET:O	1:E:263:LEU:HB2	2.02	0.60
1:E:1395:TYR:CE2	1:E:1443:ILE:HD13	2.36	0.60
1:A:629:THR:O	1:A:630:HIS:C	2.37	0.60
2:G:167:ARG:HH21	2:G:170:GLY:HA2	1.67	0.60
2:G:90:PHE:HA	2:G:203:ARG:HH21	1.64	0.60
2:G:207:LEU:CD1	2:G:212:VAL:HG11	2.31	0.60
2:K:394:LEU:CD2	2:K:396:ILE:HD12	2.30	0.60
1:A:731:SER:O	1:A:735:VAL:HG23	2.02	0.60
2:I:317:LYS:CE	2:I:345:ILE:HD12	2.30	0.60
2:I:336:HIS:O	2:I:340:GLU:HG2	2.01	0.60
2:J:96:ARG:HH21	2:J:199:VAL:HG21	1.66	0.60
2:J:415:LEU:HG	2:J:432:THR:HG21	1.82	0.60
2:I:271:VAL:CG2	2:I:285:LEU:HG	2.31	0.60
2:L:174:HIS:HE1	2:L:215:HIS:CB	2.14	0.60
1:D:521:SER:OG	1:D:522:LEU:N	2.33	0.60
1:B:464:ILE:CD1	1:B:779:TYR:CZ	2.81	0.60
1:D:594:GLU:OE1	1:D:598:ARG:NH2	2.34	0.60
1:C:603:HIS:CA	1:C:640:THR:HG22	2.32	0.60
1:B:930:ILE:HD13	1:B:983:LEU:HD13	1.83	0.60
1:A:351:ARG:HE	1:A:351:ARG:HA	1.65	0.60
1:E:45:GLY:HA2	1:E:180:LYS:HA	1.81	0.60
1:D:499:PHE:HE1	1:D:742:MET:CE	2.14	0.60
1:B:397:SER:HB2	1:B:399:LYS:HG3	1.84	0.60
1:D:312:ASN:HB2	1:D:411:ALA:HB1	1.83	0.60
1:D:102:TYR:CE1	1:D:144:PHE:CE1	2.89	0.60
1:C:743:VAL:CG1	1:C:745:ARG:HG3	2.32	0.60
1:F:670:LEU:O	1:F:670:LEU:HD22	2.01	0.60
1:A:493:ARG:NH2	1:A:786:ASP:OD1	2.32	0.60
1:B:518:ARG:NH2	1:B:1382:ASN:HD22	1.98	0.60
1:B:243:TRP:HA	1:B:243:TRP:CE3	2.35	0.60
1:D:225:PHE:HB3	1:D:278:ASP:OD2	2.02	0.60
1:B:625:GLY:O	1:B:626:ALA:C	2.39	0.60
1:E:780:ARG:CG	2:L:51:GLY:O	2.48	0.60
1:A:902:ASN:ND2	1:C:1227:GLU:CG	2.62	0.60
1:A:1432:VAL:HG22	1:A:1440:ALA:HB3	1.83	0.60
1:C:704:LEU:C	1:C:706:LYS:N	2.54	0.60
1:B:446:GLU:O	1:B:447:LEU:C	2.40	0.60
1:C:377:THR:HG22	1:C:378:GLN:HG3	1.84	0.60
2:H:394:LEU:CD2	2:H:396:ILE:HD12	2.30	0.60
2:G:416:LYS:HG3	2:G:433:ASN:HD22	1.66	0.60
2:J:267:THR:O	2:J:271:VAL:HG22	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:416:LYS:HG3	2:I:433:ASN:HD22	1.66	0.60
2:I:47:CYS:HB2	2:I:69:LEU:HD21	1.83	0.60
2:L:207:LEU:CD1	2:L:212:VAL:HG11	2.31	0.60
2:L:283:GLY:O	2:L:284:SER:HB3	2.01	0.60
2:K:417:VAL:C	2:K:424:LEU:HD22	2.21	0.60
1:D:1131:THR:CG2	1:D:1133:GLU:OE1	2.42	0.60
1:D:857:GLY:O	4:D:2474:FMN:C4A	2.50	0.60
1:C:364:ILE:CD1	1:C:374:ILE:HD11	2.30	0.60
2:H:197:LYS:HD3	2:H:274:GLY:H	1.67	0.60
1:A:982:GLN:NE2	1:A:1240:ARG:HD2	2.16	0.60
1:A:572:THR:CG2	1:A:615:ARG:HB3	2.31	0.60
1:E:355:TYR:CD1	1:E:355:TYR:O	2.54	0.60
1:D:120:LYS:HE2	1:D:120:LYS:CA	2.31	0.60
1:D:183:PHE:CE1	1:D:188:LEU:HA	2.37	0.60
1:C:1090:PHE:CD1	1:C:1090:PHE:N	2.69	0.60
1:E:1170:GLN:OE1	1:E:1183:LEU:HB2	2.01	0.60
1:F:24:ALA:O	1:F:26:LYS:N	2.34	0.60
1:C:1221:PRO:CD	1:C:1229:MET:HE1	2.32	0.60
1:C:1424:LEU:HD23	1:C:1428:ILE:HG13	1.83	0.60
1:D:782:ARG:NE	2:H:53:PRO:HD3	2.17	0.60
1:B:1105:VAL:HA	2:G:54:PHE:HE1	1.64	0.60
1:E:1438:ARG:NE	2:K:376:GLY:O	2.35	0.60
1:A:377:THR:HG22	1:A:378:GLN:HG3	1.84	0.60
1:E:377:THR:HG22	1:E:378:GLN:HG3	1.84	0.60
2:G:174:HIS:HE1	2:G:215:HIS:CB	2.14	0.60
2:G:336:HIS:O	2:G:340:GLU:HG2	2.01	0.60
1:C:731:SER:O	1:C:735:VAL:HG23	2.02	0.60
1:A:731:SER:N	1:A:748:GLY:H	2.00	0.60
1:E:731:SER:N	1:E:748:GLY:H	2.00	0.60
2:I:291:HIS:HE1	2:I:317:LYS:HB3	1.67	0.60
2:K:49:GLN:HE22	2:K:69:LEU:HG	1.65	0.60
1:E:842:GLU:HB3	1:E:1156:ARG:HD3	1.84	0.60
2:I:430:LYS:HD2	2:I:460:ALA:HB2	1.82	0.60
2:J:47:CYS:HB2	2:J:69:LEU:HD21	1.83	0.60
2:I:256:GLY:O	2:I:257:ASN:HB2	2.01	0.60
2:G:295:LEU:CD2	2:G:319:LEU:HD13	2.32	0.60
2:L:415:LEU:HD22	2:L:416:LYS:O	2.01	0.60
2:L:47:CYS:HB2	2:L:69:LEU:HD21	1.83	0.60
2:H:415:LEU:HD22	2:H:416:LYS:O	2.01	0.60
1:D:913:GLY:CA	1:D:1349:ARG:HD3	2.27	0.60
1:D:918:THR:HG22	1:D:921:TYR:N	2.13	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:950:THR:HG23	1:C:951:GLU:H	1.66	0.60
1:B:572:THR:HG22	1:B:573:PHE:N	2.16	0.60
1:B:570:ASP:O	1:B:588:ARG:NH2	2.34	0.60
2:J:197:LYS:HD3	2:J:274:GLY:H	1.67	0.60
1:A:316:LEU:O	1:A:319:TYR:HB3	2.02	0.60
1:E:107:TRP:CD1	1:E:107:TRP:N	2.69	0.60
1:B:279:THR:HG22	1:B:280:VAL:N	2.16	0.60
1:F:499:PHE:HE1	1:F:742:MET:CE	2.14	0.60
1:C:652:THR:HG21	1:C:703:GLY:HA3	1.84	0.60
1:A:575:VAL:HG13	1:A:759:LEU:HD22	1.84	0.60
1:A:1401:LEU:HD11	1:A:1405:ILE:HD12	1.82	0.60
2:J:327:MET:HB2	2:J:346:TRP:HZ2	1.65	0.60
1:F:780:ARG:NH1	2:I:50:CYS:CB	2.54	0.60
1:C:731:SER:N	1:C:748:GLY:H	2.00	0.60
1:F:1401:LEU:N	1:F:1402:PRO:HD2	2.16	0.60
2:I:439:ALA:HB1	2:I:443:ILE:CD1	2.32	0.60
1:E:525:ARG:C	1:E:526:LEU:HD12	2.21	0.60
1:C:295:LYS:HE2	1:C:299:VAL:CG1	2.31	0.60
1:F:113:ASN:ND2	1:F:113:ASN:C	2.49	0.60
1:D:1131:THR:HG21	1:D:1133:GLU:HB2	1.83	0.60
1:B:572:THR:HG23	1:B:573:PHE:N	2.16	0.60
1:A:843:VAL:CG1	1:A:844:GLU:N	2.59	0.60
1:E:565:THR:CG2	1:E:602:THR:HB	2.31	0.60
1:F:930:ILE:HD13	1:F:983:LEU:HD13	1.83	0.60
1:E:316:LEU:O	1:E:319:TYR:HB3	2.02	0.60
1:D:353:MET:HE2	1:D:366:GLY:O	2.02	0.60
1:A:312:ASN:HB2	1:A:411:ALA:HB1	1.83	0.60
1:B:193:PRO:O	1:B:194:ASP:C	2.40	0.60
1:A:443:ASP:O	1:A:444:LYS:C	2.39	0.60
2:L:46:ARG:CZ	2:L:118:VAL:HA	2.32	0.60
1:A:902:ASN:CG	1:C:1227:GLU:OE2	2.40	0.60
1:A:1227:GLU:HG2	1:E:902:ASN:CA	2.23	0.60
1:C:876:ASN:HB3	1:E:1227:GLU:OE2	2.02	0.60
2:L:291:HIS:HE1	2:L:317:LYS:HB3	1.67	0.60
1:A:259:HIS:O	1:A:260:MET:C	2.39	0.60
1:E:1401:LEU:HD11	1:E:1405:ILE:HD12	1.82	0.60
2:K:302:MET:HG3	2:K:333:GLU:CD	2.22	0.60
1:C:260:MET:O	1:C:263:LEU:HB2	2.02	0.60
1:D:447:LEU:HD21	1:D:674:ALA:CA	2.29	0.60
2:H:267:THR:O	2:H:271:VAL:HG22	2.01	0.60
2:G:203:ARG:NH1	2:G:203:ARG:HB3	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:515:ARG:NE	1:E:1367:TYR:HE1	1.99	0.60
2:J:271:VAL:CG2	2:J:285:LEU:HG	2.31	0.60
1:A:734:LEU:C	1:A:734:LEU:HD12	2.21	0.60
2:I:302:MET:HG3	2:I:333:GLU:CD	2.22	0.60
2:K:416:LYS:HG3	2:K:433:ASN:HD22	1.66	0.60
2:H:302:MET:HG3	2:H:333:GLU:CD	2.22	0.60
2:J:202:ARG:HH21	2:J:206:LEU:HD11	1.67	0.60
2:J:226:LEU:HD21	2:J:434:MET:SD	2.42	0.60
2:I:267:THR:O	2:I:271:VAL:HG22	2.01	0.60
2:L:167:ARG:HH21	2:L:170:GLY:HA2	1.67	0.60
1:F:653:HIS:O	1:F:654:TYR:C	2.39	0.60
1:D:390:MET:HG3	1:D:406:LEU:HD23	1.84	0.60
1:F:266:VAL:O	1:F:279:THR:HG21	2.01	0.60
1:F:1212:ASP:CG	1:F:1243:GLY:H	2.04	0.60
1:C:208:HIS:CE1	1:C:223:GLN:CD	2.75	0.60
1:E:208:HIS:CE1	1:E:223:GLN:CD	2.75	0.60
1:B:120:LYS:HE2	1:B:120:LYS:CA	2.31	0.60
1:C:547:SER:C	1:C:549:VAL:H	2.05	0.60
1:C:1348:VAL:HG13	1:C:1348:VAL:O	1.99	0.60
1:F:625:GLY:O	1:F:626:ALA:C	2.39	0.60
1:D:24:ALA:O	1:D:26:LYS:N	2.34	0.60
1:C:1315:LEU:HB3	1:C:1320:ASN:HD22	1.67	0.60
1:B:1131:THR:HG21	1:B:1133:GLU:HB2	1.83	0.60
1:C:1438:ARG:NE	2:J:376:GLY:O	2.35	0.60
1:D:490:ASP:CG	1:D:787:ARG:HH21	2.06	0.60
1:E:253:HIS:CE1	1:E:254:PRO:CG	2.85	0.60
2:K:295:LEU:CD2	2:K:319:LEU:HD13	2.32	0.60
2:H:257:ASN:HD22	2:H:364:ALA:HB3	1.67	0.60
2:K:415:LEU:HD22	2:K:416:LYS:O	2.01	0.60
2:K:434:MET:HB2	2:K:437:VAL:HG12	1.82	0.60
2:I:68:TRP:CE3	2:I:84:SER:HB3	2.37	0.60
2:J:207:LEU:O	2:J:210:ALA:HB3	2.02	0.60
2:J:207:LEU:CD1	2:J:212:VAL:HG11	2.31	0.60
2:G:283:GLY:O	2:G:284:SER:HB3	2.02	0.60
2:G:286:ASN:O	2:G:311:GLN:HB2	2.00	0.60
2:L:256:GLY:O	2:L:257:ASN:HB2	2.01	0.60
2:L:267:THR:O	2:L:271:VAL:HG22	2.01	0.60
2:H:439:ALA:HB1	2:H:443:ILE:CD1	2.31	0.60
2:H:68:TRP:CE3	2:H:84:SER:HB3	2.37	0.60
1:B:322:SER:O	1:B:528:ASN:ND2	2.35	0.60
1:D:322:SER:O	1:D:528:ASN:ND2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:508:ASN:HB2	1:D:509:PRO:HD2	1.84	0.60
1:A:295:LYS:HE2	1:A:299:VAL:CG1	2.31	0.60
1:D:1009:ILE:O	1:D:1010:ALA:C	2.37	0.60
1:B:1084:MET:SD	1:B:1168:LEU:HD23	2.41	0.60
1:E:572:THR:CG2	1:E:615:ARG:HB3	2.31	0.60
1:E:189:THR:CG2	1:E:190:THR:N	2.63	0.60
1:A:208:HIS:CE1	1:A:223:GLN:CD	2.75	0.60
1:D:312:ASN:OD1	1:D:312:ASN:N	2.25	0.60
1:F:397:SER:HB2	1:F:399:LYS:HG3	1.84	0.60
1:A:652:THR:HG21	1:A:703:GLY:HA3	1.84	0.60
1:E:575:VAL:HG13	1:E:759:LEU:HD22	1.84	0.60
1:A:479:MET:HG3	1:A:1104:MET:SD	2.42	0.60
1:A:781:PHE:CE2	2:J:57:VAL:HG11	2.37	0.60
2:J:302:MET:HE3	2:J:334:VAL:HA	1.83	0.60
2:J:349:ALA:CB	2:J:350:PRO:HD3	2.31	0.60
1:F:1105:VAL:HG23	2:I:54:PHE:HE1	1.64	0.60
1:E:1374:VAL:O	1:E:1375:ILE:HG12	2.01	0.60
1:C:227:MET:HE2	1:C:282:GLU:CG	2.31	0.60
1:A:531:ASN:HB3	1:A:534:ASP:HB2	1.83	0.60
1:D:447:LEU:CD1	1:D:451:GLN:CG	2.80	0.60
2:K:283:GLY:O	2:K:284:SER:HB3	2.02	0.60
2:K:257:ASN:HD22	2:K:364:ALA:HB3	1.67	0.60
1:A:743:VAL:CG1	1:A:745:ARG:HG3	2.31	0.60
1:A:732:ARG:NH1	1:B:94:GLU:OE2	2.28	0.60
2:I:350:PRO:HG3	2:I:380:PRO:CB	2.31	0.60
2:I:202:ARG:HH21	2:I:206:LEU:HD11	1.67	0.60
2:I:207:LEU:O	2:I:210:ALA:HB3	2.02	0.60
2:J:434:MET:HB2	2:J:437:VAL:HG12	1.82	0.60
2:J:166:LEU:CD2	2:J:461:ALA:HB1	2.31	0.60
2:L:203:ARG:HB3	2:L:203:ARG:NH1	2.17	0.60
2:H:202:ARG:HH21	2:H:206:LEU:HD11	1.67	0.60
1:D:653:HIS:O	1:D:654:TYR:C	2.39	0.60
1:B:508:ASN:HB2	1:B:509:PRO:HD2	1.84	0.60
1:E:1008:THR:HG22	1:E:1009:ILE:H	1.64	0.60
1:C:1076:GLY:CA	1:C:1145:GLU:HG2	2.29	0.60
1:D:930:ILE:HD13	1:D:983:LEU:HD13	1.84	0.60
1:C:1131:THR:HB	1:C:1134:LYS:CG	2.32	0.60
1:A:208:HIS:C	1:A:208:HIS:CD2	2.74	0.60
1:E:369:THR:HG23	1:E:370:GLY:N	2.17	0.60
1:B:1383:PHE:O	1:B:1384:ALA:HB3	2.00	0.60
1:E:394:ASP:C	1:E:394:ASP:OD1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:183:PHE:CE1	1:F:188:LEU:HA	2.37	0.60
1:B:1263:HIS:NE2	1:D:900:GLY:HA2	2.10	0.59
1:A:876:ASN:HB3	1:C:1227:GLU:OE2	2.02	0.59
1:C:182:MET:CE	1:C:217:PRO:HB3	2.27	0.59
1:F:490:ASP:CG	1:F:787:ARG:HH21	2.06	0.59
1:E:1375:ILE:O	1:E:1375:ILE:HG22	2.02	0.59
2:G:47:CYS:HB2	2:G:69:LEU:HD21	1.83	0.59
2:K:267:THR:O	2:K:271:VAL:HG22	2.01	0.59
1:C:734:LEU:C	1:C:734:LEU:HD12	2.21	0.59
1:C:732:ARG:NH1	1:D:94:GLU:OE2	2.28	0.59
1:E:731:SER:O	1:E:735:VAL:HG23	2.02	0.59
1:E:743:VAL:CG1	1:E:745:ARG:HG3	2.32	0.59
2:K:226:LEU:HD21	2:K:434:MET:SD	2.42	0.59
2:H:291:HIS:HE1	2:H:317:LYS:HB3	1.67	0.59
2:I:167:ARG:HH21	2:I:170:GLY:HA2	1.67	0.59
2:J:190:ILE:HG23	2:J:191:PRO:HD2	1.84	0.59
2:J:383:ILE:CD1	2:J:386:SER:H	2.12	0.59
2:L:226:LEU:HD21	2:L:434:MET:SD	2.42	0.59
2:H:47:CYS:HB2	2:H:69:LEU:HD21	1.83	0.59
1:D:1052:VAL:O	1:D:1053:HIS:C	2.38	0.59
2:G:100:GLN:HA	2:G:100:GLN:NE2	2.17	0.59
1:E:364:ILE:CD1	1:E:374:ILE:HD11	2.30	0.59
1:D:279:THR:HG22	1:D:280:VAL:N	2.16	0.59
1:A:1412:PHE:N	1:A:1412:PHE:CD1	2.70	0.59
1:C:607:THR:HB	1:C:645:ARG:HB2	1.84	0.59
1:E:208:HIS:C	1:E:208:HIS:CD2	2.74	0.59
1:F:120:LYS:CA	1:F:120:LYS:HE2	2.31	0.59
1:D:1336:LEU:HB3	1:D:1355:VAL:HG13	1.84	0.59
1:C:1170:GLN:OE1	1:C:1183:LEU:HB2	2.01	0.59
1:B:670:LEU:O	1:B:670:LEU:HD22	2.01	0.59
1:F:691:LYS:O	1:F:691:LYS:HG3	2.00	0.59
1:B:149:TYR:CD2	1:B:286:ARG:HG3	2.37	0.59
1:A:1227:GLU:OE2	1:E:876:ASN:HB3	2.02	0.59
1:B:1132:PRO:O	1:B:1136:VAL:HG23	2.02	0.59
2:J:302:MET:HG3	2:J:333:GLU:CD	2.22	0.59
2:G:46:ARG:CZ	2:G:118:VAL:HA	2.32	0.59
2:K:297:GLY:HA2	2:K:320:TYR:CE1	2.38	0.59
1:B:447:LEU:C	1:B:447:LEU:HD12	2.22	0.59
2:K:68:TRP:CE3	2:K:84:SER:HB3	2.37	0.59
2:I:449:LEU:HD23	2:I:452:TRP:CD2	2.37	0.59
2:G:302:MET:HG3	2:G:333:GLU:CD	2.22	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:267:THR:O	2:G:271:VAL:HG22	2.01	0.59
2:L:415:LEU:HG	2:L:432:THR:HG21	1.82	0.59
2:L:471:LYS:HA	2:L:471:LYS:CE	2.23	0.59
1:F:938:PRO:O	1:F:940:GLU:N	2.36	0.59
2:H:32:TYR:HE2	2:H:194:LYS:HB3	1.67	0.59
1:E:139:VAL:CG1	1:E:143:GLN:HB2	2.32	0.59
1:C:525:ARG:C	1:C:526:LEU:HD12	2.20	0.59
1:C:295:LYS:O	1:C:295:LYS:HD3	2.00	0.59
1:C:826:ARG:CG	1:C:826:ARG:NH1	2.58	0.59
1:C:102:TYR:HE2	1:C:144:PHE:CE1	2.13	0.59
1:E:950:THR:HG23	1:E:951:GLU:H	1.66	0.59
1:E:403:ASP:CG	1:E:407:LYS:NZ	2.54	0.59
2:L:197:LYS:HD3	2:L:274:GLY:H	1.67	0.59
1:A:932:VAL:O	1:A:933:ALA:CB	2.45	0.59
1:A:189:THR:CG2	1:A:190:THR:N	2.63	0.59
1:A:355:TYR:HD1	1:A:355:TYR:C	2.03	0.59
1:D:1274:GLN:NE2	1:D:1293:ASN:HB3	2.17	0.59
1:E:312:ASN:HB2	1:E:411:ALA:HB1	1.83	0.59
1:B:24:ALA:O	1:B:26:LYS:N	2.34	0.59
1:F:225:PHE:HB3	1:F:278:ASP:OD2	2.02	0.59
1:B:806:SER:OG	1:B:809:THR:N	2.31	0.59
1:A:693:MET:O	1:A:694:ALA:C	2.37	0.59
1:F:182:MET:CE	1:F:217:PRO:CA	2.58	0.59
1:A:1442:GLU:HG3	2:L:374:ALA:O	2.01	0.59
1:C:1374:VAL:O	1:C:1375:ILE:HG12	2.01	0.59
1:A:249:THR:CG2	1:A:250:ARG:HG2	2.31	0.59
1:F:461:MET:HE1	1:F:465:LEU:HD23	1.84	0.59
1:C:359:THR:HG23	1:C:378:GLN:CA	2.33	0.59
2:G:226:LEU:HD21	2:G:434:MET:SD	2.42	0.59
2:G:415:LEU:HD22	2:G:416:LYS:O	2.01	0.59
2:K:256:GLY:O	2:K:257:ASN:HB2	2.01	0.59
2:K:77:LEU:HD21	2:K:126:TYR:CE2	2.38	0.59
2:K:203:ARG:NH1	2:K:203:ARG:HB3	2.17	0.59
2:K:238:VAL:HG23	2:K:439:ALA:HA	1.85	0.59
2:K:449:LEU:HD23	2:K:452:TRP:CD2	2.37	0.59
2:I:77:LEU:HD21	2:I:126:TYR:CE2	2.38	0.59
2:I:174:HIS:HE1	2:I:215:HIS:CB	2.14	0.59
2:J:416:LYS:HG3	2:J:433:ASN:HD22	1.66	0.59
2:J:430:LYS:CE	2:J:440:ALA:HB2	2.32	0.59
2:G:297:GLY:HA2	2:G:320:TYR:CE1	2.37	0.59
2:L:166:LEU:CD2	2:L:461:ALA:HB1	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:49:GLN:HE22	2:L:69:LEU:HG	1.65	0.59
2:L:271:VAL:CG2	2:L:285:LEU:HG	2.31	0.59
2:H:207:LEU:O	2:H:210:ALA:HB3	2.02	0.59
2:H:416:LYS:HG3	2:H:433:ASN:HD22	1.66	0.59
2:I:383:ILE:HD12	2:I:386:SER:N	2.16	0.59
1:B:295:LYS:CD	1:B:390:MET:HE3	2.20	0.59
1:F:857:GLY:O	4:F:2474:FMN:C4A	2.50	0.59
1:D:559:ARG:NH1	1:D:568:GLU:OE2	2.35	0.59
1:A:208:HIS:ND1	1:A:223:GLN:OE1	2.35	0.59
1:A:369:THR:HG23	1:A:370:GLY:N	2.17	0.59
1:E:466:HIS:CE1	1:E:684:PHE:CE1	2.91	0.59
1:B:183:PHE:CE1	1:B:188:LEU:HA	2.37	0.59
1:B:691:LYS:O	1:B:691:LYS:HG3	2.00	0.59
1:F:1171:VAL:HG12	1:F:1171:VAL:O	2.02	0.59
1:B:1171:VAL:HG12	1:B:1171:VAL:O	2.02	0.59
1:F:149:TYR:CD2	1:F:286:ARG:HG3	2.37	0.59
1:E:479:MET:HG3	1:E:1104:MET:SD	2.42	0.59
1:C:761:GLN:O	1:C:764:THR:HB	2.02	0.59
1:A:1438:ARG:NE	2:L:376:GLY:O	2.35	0.59
2:L:387:GLU:HG2	2:L:388:PHE:N	2.17	0.59
1:A:150:ILE:HG22	1:A:150:ILE:O	2.02	0.59
1:D:446:GLU:O	1:D:447:LEU:C	2.40	0.59
2:H:283:GLY:O	2:H:284:SER:HB3	2.01	0.59
2:G:447:ALA:HB1	2:G:452:TRP:HE3	1.65	0.59
2:G:49:GLN:HE22	2:G:69:LEU:HG	1.65	0.59
2:J:257:ASN:HD22	2:J:364:ALA:HB3	1.67	0.59
1:A:732:ARG:H	1:A:747:SER:HB3	1.65	0.59
2:K:32:TYR:HE2	2:K:194:LYS:HB3	1.67	0.59
2:H:297:GLY:HA2	2:H:320:TYR:CE1	2.37	0.59
2:I:203:ARG:HB3	2:I:203:ARG:NH1	2.17	0.59
2:J:186:LEU:HD11	2:J:200:VAL:CB	2.28	0.59
2:J:238:VAL:HG23	2:J:439:ALA:HA	1.85	0.59
2:J:430:LYS:HD2	2:J:460:ALA:HB2	1.82	0.59
2:L:202:ARG:HH21	2:L:206:LEU:HD11	1.67	0.59
2:L:69:LEU:C	2:L:69:LEU:HD12	2.23	0.59
2:G:420:TRP:HB2	2:G:422:THR:CG2	2.33	0.59
2:L:366:ARG:NE	2:L:391:GLN:HG2	2.14	0.59
1:F:918:THR:HG22	1:F:921:TYR:N	2.13	0.59
1:A:950:THR:HG23	1:A:951:GLU:H	1.66	0.59
1:B:573:PHE:HB2	1:B:574:PRO:HD2	1.85	0.59
4:B:2474:FMN:O4'	4:B:2474:FMN:C1'	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:914:ARG:NH2	1:A:973:ASP:OD1	2.36	0.59
1:C:223:GLN:HB3	1:C:224:PRO:HA	1.85	0.59
1:B:1274:GLN:NE2	1:B:1293:ASN:HB3	2.17	0.59
1:B:312:ASN:OD1	1:B:312:ASN:N	2.25	0.59
1:F:119:GLU:O	1:F:120:LYS:C	2.39	0.59
1:D:989:GLN:O	1:D:1245:ARG:HD3	2.01	0.59
2:L:295:LEU:CD2	2:L:319:LEU:HD13	2.32	0.59
2:H:46:ARG:CZ	2:H:118:VAL:HA	2.32	0.59
1:B:490:ASP:CG	1:B:787:ARG:HH21	2.06	0.59
2:G:77:LEU:HD21	2:G:126:TYR:CE2	2.38	0.59
2:G:439:ALA:HB1	2:G:443:ILE:CD1	2.32	0.59
2:J:256:GLY:O	2:J:257:ASN:HB2	2.01	0.59
2:K:167:ARG:HH21	2:K:170:GLY:HA2	1.67	0.59
2:K:202:ARG:HH21	2:K:206:LEU:HD11	1.67	0.59
2:K:212:VAL:HG22	2:K:214:TYR:CE1	2.38	0.59
2:I:225:SER:HB3	2:I:227:PRO:CD	2.23	0.59
2:G:387:GLU:HG2	2:G:388:PHE:N	2.17	0.59
2:G:189:GLY:O	2:G:265:LEU:HD13	2.03	0.59
2:L:336:HIS:O	2:L:340:GLU:HG2	2.01	0.59
2:H:238:VAL:HG23	2:H:439:ALA:HA	1.84	0.59
2:H:415:LEU:HG	2:H:432:THR:HG21	1.82	0.59
1:F:390:MET:HG3	1:F:406:LEU:HD23	1.84	0.59
1:F:322:SER:O	1:F:528:ASN:ND2	2.35	0.59
2:H:365:VAL:CG2	2:H:366:ARG:HG3	2.31	0.59
2:L:100:GLN:HA	2:L:100:GLN:NE2	2.17	0.59
1:F:958:HIS:O	1:F:1369:THR:CG2	2.51	0.59
1:E:1075:THR:CG2	1:E:1076:GLY:N	2.66	0.59
1:B:559:ARG:NH1	1:B:568:GLU:OE2	2.35	0.59
1:E:1388:THR:HG23	1:E:1388:THR:O	2.01	0.59
1:C:1307:VAL:HG12	1:C:1322:ILE:CD1	2.33	0.59
1:B:266:VAL:O	1:B:279:THR:HG21	2.01	0.59
1:E:918:THR:CG2	1:E:1256:MET:SD	2.91	0.59
1:B:499:PHE:CE1	1:B:742:MET:HE1	2.36	0.59
2:J:361:GLY:O	2:J:362:VAL:HB	2.01	0.59
1:D:397:SER:HB2	1:D:399:LYS:HG3	1.84	0.59
1:A:1170:GLN:OE1	1:A:1183:LEU:HB2	2.01	0.59
1:A:761:GLN:O	1:A:764:THR:HB	2.02	0.59
2:L:302:MET:HG3	2:L:333:GLU:CD	2.22	0.59
2:J:295:LEU:CD2	2:J:319:LEU:HD13	2.32	0.59
1:D:1105:VAL:HG23	2:H:54:PHE:HE1	1.64	0.59
1:E:150:ILE:O	1:E:150:ILE:HG22	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:291:HIS:HE1	2:K:317:LYS:CB	2.16	0.59
1:F:1132:PRO:O	1:F:1136:VAL:HG23	2.02	0.59
2:G:202:ARG:HH21	2:G:206:LEU:HD11	1.67	0.59
2:G:316:VAL:CB	2:G:342:VAL:HG22	2.33	0.59
2:K:69:LEU:HD12	2:K:69:LEU:C	2.23	0.59
2:H:291:HIS:HE1	2:H:317:LYS:CB	2.16	0.59
2:J:449:LEU:HD23	2:J:452:TRP:CD2	2.38	0.59
1:F:1442:GLU:OE2	2:G:375:THR:N	2.36	0.59
2:G:291:HIS:HE1	2:G:317:LYS:HB3	1.67	0.59
2:G:256:GLY:O	2:G:257:ASN:HB2	2.01	0.59
2:L:207:LEU:O	2:L:210:ALA:HB3	2.02	0.59
2:L:430:LYS:CE	2:L:440:ALA:HB2	2.32	0.59
2:L:68:TRP:CE3	2:L:84:SER:HB3	2.37	0.59
2:L:189:GLY:O	2:L:265:LEU:HD13	2.03	0.59
2:H:190:ILE:HG23	2:H:191:PRO:HD2	1.84	0.59
2:H:203:ARG:HB3	2:H:203:ARG:NH1	2.17	0.59
2:H:449:LEU:HD23	2:H:452:TRP:CD2	2.38	0.59
1:F:508:ASN:HB2	1:F:509:PRO:HD2	1.84	0.59
1:D:1132:PRO:O	1:D:1136:VAL:HG23	2.02	0.59
1:B:248:GLU:HA	1:B:251:MET:HG2	1.84	0.59
1:F:572:THR:HG23	1:F:573:PHE:N	2.16	0.59
1:F:560:ASP:O	1:F:562:MET:N	2.36	0.59
2:I:197:LYS:HD3	2:I:274:GLY:H	1.67	0.59
1:F:312:ASN:HB2	1:F:411:ALA:HB1	1.83	0.59
1:E:208:HIS:ND1	1:E:223:GLN:OE1	2.35	0.59
1:F:1420:TYR:O	1:F:1422:SER:N	2.36	0.59
1:D:1420:TYR:O	1:D:1422:SER:N	2.36	0.59
1:B:225:PHE:HB3	1:B:278:ASP:OD2	2.02	0.59
1:F:989:GLN:O	1:F:1245:ARG:HD3	2.01	0.59
1:F:1336:LEU:HB3	1:F:1355:VAL:HG13	1.84	0.59
1:E:1221:PRO:CD	1:E:1229:MET:HE1	2.32	0.59
1:F:782:ARG:HB3	2:I:53:PRO:HD2	1.80	0.59
1:E:359:THR:HG23	1:E:378:GLN:CA	2.33	0.59
1:F:447:LEU:CD1	1:F:451:GLN:CG	2.80	0.59
1:B:447:LEU:CD1	1:B:451:GLN:CG	2.80	0.59
2:G:238:VAL:HG23	2:G:439:ALA:HA	1.85	0.59
2:G:238:VAL:CG2	2:G:439:ALA:HB2	2.33	0.59
2:G:68:TRP:HD1	2:G:69:LEU:N	2.01	0.59
1:C:732:ARG:H	1:C:747:SER:HB3	1.65	0.59
1:D:1442:GLU:OE2	2:I:375:THR:N	2.36	0.59
1:B:1442:GLU:OE2	2:H:375:THR:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:226:LEU:HD21	2:I:434:MET:SD	2.42	0.59
2:I:166:LEU:CD2	2:I:461:ALA:HB1	2.31	0.59
2:I:471:LYS:CE	2:I:471:LYS:HA	2.23	0.59
2:I:68:TRP:HD1	2:I:69:LEU:N	2.01	0.59
2:J:167:ARG:HH21	2:J:170:GLY:HA2	1.67	0.59
2:J:416:LYS:HZ2	2:J:416:LYS:HB2	1.68	0.59
2:J:447:ALA:HB1	2:J:452:TRP:HE3	1.65	0.59
2:G:257:ASN:HD22	2:G:364:ALA:HB3	1.67	0.59
2:H:226:LEU:HD21	2:H:434:MET:SD	2.42	0.59
2:H:69:LEU:C	2:H:69:LEU:HD12	2.23	0.59
2:H:77:LEU:HD21	2:H:126:TYR:CE2	2.38	0.59
1:C:115:ASP:OD2	1:D:1194:GLU:HB2	2.02	0.59
2:H:100:GLN:NE2	2:H:100:GLN:HA	2.17	0.59
1:C:950:THR:CG2	1:C:952:MET:H	2.15	0.59
1:D:560:ASP:O	1:D:562:MET:N	2.36	0.59
1:B:560:ASP:O	1:B:562:MET:N	2.36	0.59
1:F:559:ARG:NH1	1:F:568:GLU:OE2	2.35	0.59
1:C:1412:PHE:CD1	1:C:1412:PHE:N	2.70	0.59
1:D:869:GLY:O	1:D:873:VAL:HG23	2.03	0.59
1:C:479:MET:HG3	1:C:1104:MET:SD	2.42	0.59
1:F:1221:PRO:HD2	1:F:1229:MET:CE	2.26	0.59
1:C:1425:LYS:HE2	1:C:1447:TRP:CD1	2.38	0.59
1:C:663:ALA:O	1:C:720:ARG:NE	2.36	0.59
1:A:663:ALA:O	1:A:720:ARG:NE	2.36	0.59
1:A:704:LEU:C	1:A:706:LYS:N	2.54	0.59
1:E:1425:LYS:HE2	1:E:1447:TRP:CD1	2.38	0.59
2:K:302:MET:HE3	2:K:334:VAL:HA	1.85	0.59
1:F:850:ARG:O	1:F:853:PHE:HB2	2.03	0.59
2:K:238:VAL:CG2	2:K:439:ALA:HB2	2.33	0.59
2:I:238:VAL:HG23	2:I:439:ALA:HA	1.85	0.59
2:I:288:ALA:HB3	2:I:311:GLN:HG3	1.85	0.59
2:G:291:HIS:HE1	2:G:317:LYS:CB	2.16	0.59
2:L:32:TYR:HE2	2:L:194:LYS:HB3	1.67	0.59
2:L:420:TRP:HB2	2:L:422:THR:CG2	2.33	0.59
1:D:913:GLY:HA2	1:D:1349:ARG:CD	2.27	0.59
2:J:360:THR:HG22	2:J:365:VAL:CG1	2.33	0.59
1:A:115:ASP:OD2	1:B:1194:GLU:HB2	2.02	0.59
2:L:316:VAL:CB	2:L:342:VAL:HG22	2.33	0.59
1:B:857:GLY:O	4:B:2474:FMN:C4A	2.50	0.59
1:E:24:ALA:O	1:E:26:LYS:N	2.36	0.59
1:E:1412:PHE:CD1	1:E:1412:PHE:N	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:947:PHE:CD1	1:B:947:PHE:O	2.56	0.59
1:F:947:PHE:O	1:F:947:PHE:CD1	2.56	0.59
1:B:1420:TYR:O	1:B:1422:SER:N	2.36	0.59
1:F:869:GLY:O	1:F:873:VAL:HG23	2.03	0.59
1:E:447:LEU:HD13	1:E:670:LEU:CD2	2.33	0.59
1:D:1221:PRO:HB2	1:D:1229:MET:HE2	1.83	0.59
1:B:1135:VAL:O	1:B:1136:VAL:C	2.33	0.59
1:A:1425:LYS:HE2	1:A:1447:TRP:CD1	2.38	0.59
2:L:302:MET:HE3	2:L:334:VAL:HA	1.84	0.59
2:J:291:HIS:CE1	2:J:317:LYS:HB3	2.38	0.59
1:A:253:HIS:CE1	1:A:254:PRO:CG	2.85	0.59
2:K:291:HIS:CE1	2:K:317:LYS:HB3	2.38	0.59
1:E:825:LEU:HD12	1:E:1186:ARG:NH1	2.13	0.59
1:C:253:HIS:CE1	1:C:254:PRO:CG	2.85	0.59
1:C:259:HIS:O	1:C:260:MET:C	2.39	0.59
1:C:249:THR:HG22	1:C:250:ARG:HG2	1.85	0.59
2:K:288:ALA:HB3	2:K:311:GLN:HG3	1.85	0.59
2:J:77:LEU:HD21	2:J:126:TYR:CE2	2.38	0.59
2:J:32:TYR:HE2	2:J:194:LYS:HB3	1.67	0.59
2:J:68:TRP:CE3	2:J:84:SER:HB3	2.37	0.59
2:G:349:ALA:CB	2:G:350:PRO:HD3	2.31	0.59
2:L:196:GLU:O	2:L:199:VAL:HB	2.03	0.59
2:L:238:VAL:CG2	2:L:439:ALA:HB2	2.33	0.59
2:H:196:GLU:O	2:H:199:VAL:HB	2.03	0.59
2:H:212:VAL:HG22	2:H:214:TYR:CE1	2.38	0.59
1:C:842:GLU:HB3	1:C:1156:ARG:HD3	1.84	0.59
1:B:938:PRO:O	1:B:939:GLY:C	2.35	0.59
1:C:345:MET:CE	1:C:385:LEU:CB	2.81	0.59
1:D:113:ASN:HD21	1:D:115:ASP:H	1.47	0.59
2:G:365:VAL:CG2	2:G:366:ARG:HG3	2.31	0.59
1:E:345:MET:CE	1:E:385:LEU:CB	2.81	0.59
1:D:958:HIS:O	1:D:1369:THR:CG2	2.51	0.59
1:A:1076:GLY:CA	1:A:1145:GLU:HG2	2.28	0.59
1:F:570:ASP:O	1:F:588:ARG:NH2	2.34	0.59
1:A:1307:VAL:HG12	1:A:1322:ILE:CD1	2.33	0.59
1:E:1307:VAL:HG12	1:E:1322:ILE:CD1	2.33	0.59
1:E:893:ARG:HG2	1:E:903:TRP:HB2	1.85	0.59
1:C:824:GLN:HE21	1:C:824:GLN:HA	1.66	0.59
1:D:303:LEU:HD11	1:D:314:LYS:HG2	1.85	0.59
1:D:499:PHE:CE1	1:D:742:MET:HE1	2.38	0.59
1:D:149:TYR:CD2	1:D:286:ARG:HG3	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:782:ARG:NE	2:K:53:PRO:CD	2.60	0.59
2:J:291:HIS:HE1	2:J:317:LYS:CB	2.16	0.59
1:F:782:ARG:CB	2:I:56:GLN:NE2	2.41	0.59
1:B:782:ARG:NE	2:G:53:PRO:HD3	2.17	0.59
1:E:1393:TYR:O	1:E:1394:VAL:CG2	2.44	0.59
1:E:1432:VAL:HG22	1:E:1440:ALA:HB3	1.83	0.59
1:C:150:ILE:O	1:C:150:ILE:HG22	2.02	0.59
1:E:629:THR:O	1:E:630:HIS:C	2.37	0.59
1:C:875:MET:HE1	1:C:1139:PHE:HE2	1.30	0.59
1:A:875:MET:HE1	1:A:1139:PHE:HE2	1.34	0.59
2:G:196:GLU:O	2:G:199:VAL:HB	2.03	0.59
2:G:212:VAL:HG22	2:G:214:TYR:CE1	2.38	0.59
2:G:68:TRP:CE3	2:G:84:SER:HB3	2.37	0.59
2:J:283:GLY:O	2:J:284:SER:HB3	2.02	0.59
2:I:387:GLU:HG2	2:I:388:PHE:N	2.18	0.59
2:K:439:ALA:HB1	2:K:443:ILE:CD1	2.32	0.59
2:H:291:HIS:CE1	2:H:317:LYS:HB3	2.38	0.59
2:I:220:VAL:HG22	8:I:484:FAD:C6A	2.29	0.59
2:J:196:GLU:O	2:J:199:VAL:HB	2.03	0.59
2:J:203:ARG:HB3	2:J:203:ARG:NH1	2.17	0.59
2:L:34:ARG:O	2:L:122:SER:HB2	2.03	0.59
2:L:439:ALA:HB1	2:L:443:ILE:CD1	2.31	0.59
2:L:68:TRP:HD1	2:L:69:LEU:N	2.01	0.59
2:I:383:ILE:CD1	2:I:386:SER:H	2.12	0.59
2:L:383:ILE:HD12	2:L:386:SER:N	2.16	0.59
2:G:360:THR:HG22	2:G:365:VAL:CG1	2.33	0.59
2:K:365:VAL:CG2	2:K:366:ARG:HG3	2.31	0.59
2:H:360:THR:HG22	2:H:365:VAL:CG1	2.33	0.59
2:K:316:VAL:CB	2:K:342:VAL:HG22	2.33	0.59
1:C:316:LEU:O	1:C:319:TYR:HB3	2.02	0.59
1:E:823:MET:O	1:E:824:GLN:NE2	2.36	0.59
2:K:277:VAL:HG12	2:K:279:ALA:H	1.68	0.59
1:B:303:LEU:HD11	1:B:314:LYS:HG2	1.85	0.59
1:F:1420:TYR:OH	1:F:1466:LEU:HD22	2.03	0.59
1:D:1169:HIS:N	1:D:1169:HIS:ND1	2.49	0.59
1:E:652:THR:HG21	1:E:703:GLY:HA3	1.84	0.59
1:E:1038:ILE:HG22	1:E:1038:ILE:O	2.02	0.59
1:E:1315:LEU:HB3	1:E:1320:ASN:HD22	1.67	0.59
1:C:781:PHE:CE2	2:K:57:VAL:HG11	2.37	0.58
2:L:291:HIS:HD2	2:L:392:ALA:CB	2.16	0.58
1:C:1432:VAL:HG22	1:C:1440:ALA:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:291:HIS:HE1	2:K:317:LYS:HB3	1.67	0.58
1:E:244:MET:O	1:E:246:ALA:N	2.36	0.58
2:H:286:ASN:HB2	2:H:311:GLN:HE22	1.68	0.58
2:G:153:ILE:HG12	2:G:220:VAL:CG2	2.33	0.58
2:G:432:THR:HG22	2:G:434:MET:N	2.15	0.58
2:K:189:GLY:O	2:K:265:LEU:HD13	2.03	0.58
2:J:286:ASN:HB2	2:J:311:GLN:HE22	1.68	0.58
1:A:511:ILE:CG2	1:A:512:ASP:N	2.59	0.58
2:K:207:LEU:O	2:K:210:ALA:HB3	2.02	0.58
2:K:68:TRP:HD1	2:K:69:LEU:N	2.01	0.58
2:H:295:LEU:CD2	2:H:319:LEU:HD13	2.32	0.58
2:J:432:THR:HG22	2:J:434:MET:N	2.15	0.58
2:I:271:VAL:CG1	2:I:281:GLU:HG2	2.33	0.58
1:B:938:PRO:O	1:B:940:GLU:N	2.36	0.58
1:B:390:MET:HG3	1:B:406:LEU:HD23	1.84	0.58
2:L:360:THR:HG22	2:L:365:VAL:CG1	2.33	0.58
1:B:227:MET:HE2	1:B:282:GLU:HG2	1.84	0.58
1:E:295:LYS:HZ1	1:E:299:VAL:HG12	1.68	0.58
1:D:850:ARG:O	1:D:853:PHE:HB2	2.03	0.58
2:K:100:GLN:HA	2:K:100:GLN:NE2	2.17	0.58
2:H:316:VAL:CB	2:H:342:VAL:HG22	2.33	0.58
1:D:838:VAL:CG1	1:D:839:PRO:N	2.66	0.58
1:A:603:HIS:CA	1:A:640:THR:HG22	2.32	0.58
1:F:643:ASN:HB3	1:F:665:THR:HG21	1.85	0.58
1:E:355:TYR:HD1	1:E:355:TYR:C	2.03	0.58
2:K:361:GLY:O	2:K:362:VAL:HB	2.01	0.58
1:A:447:LEU:HD13	1:A:670:LEU:CD2	2.33	0.58
1:E:781:PHE:CE2	2:L:57:VAL:CG2	2.83	0.58
1:D:1221:PRO:HD2	1:D:1229:MET:CE	2.26	0.58
2:L:297:GLY:HA2	2:L:320:TYR:CE1	2.37	0.58
1:C:249:THR:CG2	1:C:250:ARG:HG2	2.31	0.58
2:H:256:GLY:O	2:H:257:ASN:HB2	2.01	0.58
2:G:207:LEU:O	2:G:210:ALA:HB3	2.02	0.58
2:K:271:VAL:CG1	2:K:281:GLU:HG2	2.33	0.58
2:K:286:ASN:HB2	2:K:311:GLN:HE22	1.68	0.58
2:I:291:HIS:CE1	2:I:317:LYS:HB3	2.38	0.58
2:I:291:HIS:HD2	2:I:392:ALA:CB	2.16	0.58
2:L:190:ILE:HG23	2:L:191:PRO:HD2	1.84	0.58
2:H:166:LEU:CD2	2:H:461:ALA:HB1	2.31	0.58
1:D:31:ARG:NH1	1:D:368:GLU:OE1	2.37	0.58
1:D:938:PRO:O	1:D:940:GLU:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:417:VAL:HG11	2:I:421:GLY:HA2	1.86	0.58
1:D:248:GLU:HA	1:D:251:MET:HG2	1.85	0.58
1:C:1075:THR:CG2	1:C:1076:GLY:N	2.66	0.58
1:A:218:THR:HG22	1:A:221:LEU:H	1.69	0.58
1:E:982:GLN:NE2	1:E:1240:ARG:HD2	2.16	0.58
1:A:918:THR:CG2	1:A:1256:MET:SD	2.91	0.58
1:B:643:ASN:HB3	1:B:665:THR:HG21	1.85	0.58
1:E:330:PRO:HA	1:E:350:LEU:HB2	1.84	0.58
1:D:1171:VAL:HG12	1:D:1171:VAL:O	2.02	0.58
1:C:1114:PRO:CG	2:K:109:VAL:O	2.51	0.58
1:C:1425:LYS:CD	1:C:1447:TRP:CE2	2.86	0.58
1:C:1442:GLU:CG	2:J:374:ALA:O	2.51	0.58
2:J:291:HIS:HD2	2:J:392:ALA:CB	2.16	0.58
1:D:551:THR:O	1:D:554:GLU:HG2	2.03	0.58
1:C:244:MET:O	1:C:246:ALA:N	2.36	0.58
1:E:531:ASN:O	1:E:533:LEU:N	2.37	0.58
2:G:190:ILE:HG23	2:G:191:PRO:HD2	1.84	0.58
2:G:34:ARG:O	2:G:122:SER:HB2	2.03	0.58
2:G:449:LEU:HD23	2:G:452:TRP:CD2	2.38	0.58
2:J:271:VAL:CG1	2:J:281:GLU:HG2	2.33	0.58
2:K:37:ASP:OD1	2:K:38:GLU:HG2	2.03	0.58
2:K:429:THR:HG21	2:K:431:MET:HE2	1.85	0.58
2:H:387:GLU:HG2	2:H:388:PHE:N	2.17	0.58
2:I:34:ARG:O	2:I:122:SER:HB2	2.03	0.58
2:I:69:LEU:C	2:I:69:LEU:HD12	2.23	0.58
2:G:291:HIS:CE1	2:G:317:LYS:HB3	2.38	0.58
2:G:302:MET:HE1	2:G:334:VAL:N	2.19	0.58
2:G:286:ASN:HB2	2:G:311:GLN:HE22	1.68	0.58
2:L:153:ILE:HG12	2:L:220:VAL:CG2	2.34	0.58
2:H:430:LYS:HD2	2:H:460:ALA:HB2	1.82	0.58
1:E:139:VAL:CG1	1:E:143:GLN:CB	2.81	0.58
1:B:31:ARG:NH1	1:B:368:GLU:OE1	2.37	0.58
1:C:330:PRO:HA	1:C:350:LEU:HB2	1.84	0.58
2:K:178:ARG:HD3	2:K:219:GLU:OE1	2.04	0.58
1:E:115:ASP:OD2	1:F:1194:GLU:HB2	2.02	0.58
1:C:145:GLU:O	1:C:146:LEU:C	2.41	0.58
1:A:102:TYR:HA	1:A:136:ASN:OD1	2.04	0.58
1:F:838:VAL:CG1	1:F:839:PRO:N	2.66	0.58
1:F:589:ILE:HD12	1:F:627:VAL:HG23	1.85	0.58
1:D:40:THR:HG22	1:D:40:THR:O	2.04	0.58
1:D:484:PRO:HG3	1:D:823:MET:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:914:ARG:NH2	1:C:973:ASP:OD1	2.35	0.58
1:E:894:PHE:CD2	1:E:924:GLN:HG3	2.39	0.58
1:A:24:ALA:O	1:A:26:LYS:N	2.36	0.58
1:D:657:VAL:HG12	1:D:658:LEU:N	2.15	0.58
2:I:277:VAL:HG12	2:I:279:ALA:H	1.68	0.58
1:E:607:THR:HB	1:E:645:ARG:HB2	1.84	0.58
1:C:466:HIS:CE1	1:C:684:PHE:CE1	2.91	0.58
1:D:1420:TYR:OH	1:D:1466:LEU:HD22	2.03	0.58
1:E:1114:PRO:CG	2:L:109:VAL:O	2.51	0.58
1:F:1222:LEU:H	1:F:1229:MET:HE2	1.68	0.58
1:C:876:ASN:HB3	1:E:1227:GLU:OE1	2.03	0.58
2:J:297:GLY:HA2	2:J:320:TYR:CE1	2.37	0.58
2:J:302:MET:HE1	2:J:334:VAL:N	2.19	0.58
1:E:249:THR:HG22	1:E:250:ARG:HG2	1.85	0.58
1:A:359:THR:HG23	1:A:378:GLN:CA	2.33	0.58
2:G:166:LEU:CD2	2:G:461:ALA:HB1	2.31	0.58
2:G:69:LEU:C	2:G:69:LEU:HD12	2.23	0.58
2:K:196:GLU:O	2:K:199:VAL:HB	2.03	0.58
2:H:302:MET:HE1	2:H:334:VAL:N	2.18	0.58
2:I:196:GLU:O	2:I:199:VAL:HB	2.03	0.58
2:I:212:VAL:HG22	2:I:214:TYR:CE1	2.38	0.58
2:L:71:LEU:CD1	2:L:80:ALA:H	2.17	0.58
2:L:77:LEU:HD21	2:L:126:TYR:CE2	2.38	0.58
2:L:178:ARG:HD3	2:L:219:GLU:OE1	2.04	0.58
1:B:505:GLN:NE2	1:B:1000:LEU:CB	2.59	0.58
1:A:958:HIS:O	1:A:1369:THR:HG21	1.99	0.58
1:C:218:THR:HG22	1:C:221:LEU:H	1.69	0.58
1:E:914:ARG:NH2	1:E:973:ASP:OD1	2.36	0.58
1:B:40:THR:O	1:B:40:THR:HG22	2.03	0.58
1:C:823:MET:O	1:C:824:GLN:NE2	2.36	0.58
1:A:823:MET:O	1:A:824:GLN:NE2	2.36	0.58
2:J:277:VAL:HG12	2:J:279:ALA:H	1.68	0.58
1:A:570:ASP:OD1	1:A:572:THR:HB	2.04	0.58
1:F:303:LEU:HD11	1:F:314:LYS:HG2	1.85	0.58
1:B:1420:TYR:OH	1:B:1466:LEU:HD22	2.02	0.58
1:A:466:HIS:CE1	1:A:684:PHE:CE1	2.91	0.58
1:D:4:GLY:HA3	1:D:207:TYR:CZ	2.39	0.58
1:F:193:PRO:O	1:F:194:ASP:C	2.40	0.58
2:G:361:GLY:O	2:G:362:VAL:HB	2.01	0.58
1:F:1221:PRO:HB2	1:F:1229:MET:HE2	1.85	0.58
1:B:782:ARG:HH21	2:G:51:GLY:HA3	0.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1425:LYS:CD	1:E:1447:TRP:CE2	2.86	0.58
1:C:531:ASN:O	1:C:533:LEU:N	2.37	0.58
2:I:297:GLY:HA2	2:I:320:TYR:CE1	2.38	0.58
1:A:913:GLY:O	1:A:915:PHE:N	2.35	0.58
2:G:181:ARG:O	2:G:182:MET:HE3	2.03	0.58
2:I:190:ILE:HG23	2:I:191:PRO:HD2	1.84	0.58
2:I:37:ASP:OD1	2:I:38:GLU:HG2	2.03	0.58
2:I:283:GLY:O	2:I:284:SER:HB3	2.02	0.58
2:L:212:VAL:HG22	2:L:214:TYR:CE1	2.38	0.58
2:L:37:ASP:OD1	2:L:38:GLU:HG2	2.03	0.58
2:L:238:VAL:HG23	2:L:439:ALA:HA	1.84	0.58
2:H:167:ARG:HH21	2:H:170:GLY:HA2	1.67	0.58
2:H:238:VAL:CG2	2:H:439:ALA:HB2	2.33	0.58
1:B:1366:GLU:CG	1:B:1367:TYR:CD2	2.84	0.58
2:K:360:THR:HG22	2:K:365:VAL:CG1	2.33	0.58
2:J:365:VAL:CG2	2:J:366:ARG:HG3	2.31	0.58
1:E:145:GLU:O	1:E:146:LEU:C	2.41	0.58
2:J:100:GLN:NE2	2:J:100:GLN:HA	2.17	0.58
2:J:316:VAL:CB	2:J:342:VAL:HG22	2.33	0.58
1:F:248:GLU:O	1:F:250:ARG:N	2.37	0.58
1:D:838:VAL:O	1:D:1151:ALA:HB1	2.04	0.58
1:D:573:PHE:HB2	1:D:574:PRO:HD2	1.85	0.58
1:D:461:MET:HE1	1:D:465:LEU:HD23	1.85	0.58
1:C:918:THR:CG2	1:C:1256:MET:SD	2.91	0.58
1:C:24:ALA:O	1:C:26:LYS:N	2.36	0.58
1:E:570:ASP:O	1:E:572:THR:N	2.37	0.58
1:F:648:GLU:O	1:F:648:GLU:CG	2.51	0.58
1:B:4:GLY:HA3	1:B:207:TYR:CZ	2.39	0.58
1:F:660:GLY:HA2	1:F:721:GLY:H	1.68	0.58
2:H:361:GLY:O	2:H:362:VAL:HB	2.01	0.58
1:C:89:CYS:O	1:C:93:VAL:HG23	2.03	0.58
1:B:1228:LYS:H	1:D:901:ASP:HA	1.69	0.58
1:C:897:ASP:C	1:C:897:ASP:OD1	2.42	0.58
1:C:1356:VAL:HG11	1:C:1431:HIS:CG	2.38	0.58
1:C:1447:TRP:CD2	1:C:1451:VAL:CG2	2.87	0.58
1:D:782:ARG:HB3	2:H:53:PRO:HD2	1.80	0.58
1:B:782:ARG:N	2:G:52:VAL:CB	2.64	0.58
1:E:1442:GLU:CG	2:K:374:ALA:O	2.51	0.58
1:A:244:MET:O	1:A:246:ALA:N	2.36	0.58
1:B:461:MET:HE1	1:B:465:LEU:HD23	1.85	0.58
1:A:56:LYS:O	1:A:57:ASP:C	2.42	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:734:LEU:O	1:C:734:LEU:HD12	2.04	0.58
2:J:288:ALA:HB3	2:J:311:GLN:HG3	1.85	0.58
1:E:746:ILE:C	1:E:747:SER:O	2.35	0.58
2:K:153:ILE:HG12	2:K:220:VAL:CG2	2.33	0.58
2:I:153:ILE:HG12	2:I:220:VAL:CG2	2.33	0.58
2:I:32:TYR:HE2	2:I:194:LYS:HB3	1.67	0.58
2:I:189:GLY:O	2:I:265:LEU:HD13	2.03	0.58
1:C:139:VAL:CG1	1:C:143:GLN:HB2	2.32	0.58
2:L:175:VAL:HG12	2:L:213:ILE:O	2.04	0.58
1:A:139:VAL:CG1	1:A:143:GLN:HB2	2.32	0.58
1:E:143:GLN:CA	1:E:143:GLN:HE21	2.14	0.58
1:D:570:ASP:O	1:D:588:ARG:NH2	2.34	0.58
1:B:838:VAL:O	1:B:1151:ALA:HB1	2.04	0.58
1:D:643:ASN:HB3	1:D:665:THR:HG21	1.85	0.58
1:B:353:MET:HE2	1:B:366:GLY:O	2.03	0.58
1:C:570:ASP:O	1:C:572:THR:N	2.37	0.58
1:C:208:HIS:ND1	1:C:223:GLN:OE1	2.35	0.58
1:B:660:GLY:HA2	1:B:721:GLY:H	1.68	0.58
1:A:5:PHE:O	1:A:365:GLY:N	2.34	0.58
1:D:670:LEU:HD22	1:D:670:LEU:O	2.01	0.58
1:A:1315:LEU:HB3	1:A:1320:ASN:HD22	1.67	0.58
1:A:1038:ILE:HG22	1:A:1038:ILE:O	2.02	0.58
1:B:850:ARG:O	1:B:853:PHE:HB2	2.03	0.58
2:J:387:GLU:HG2	2:J:388:PHE:N	2.17	0.58
1:F:780:ARG:HB3	2:I:51:GLY:C	2.24	0.58
2:H:114:THR:HG23	2:H:115:HIS:H	1.69	0.58
1:D:780:ARG:HB3	2:H:51:GLY:C	2.24	0.58
2:G:114:THR:HG23	2:G:115:HIS:H	1.69	0.58
1:E:1356:VAL:HG11	1:E:1431:HIS:CG	2.38	0.58
1:F:551:THR:O	1:F:554:GLU:HG2	2.03	0.58
2:G:175:VAL:HG12	2:G:213:ILE:O	2.04	0.58
2:K:257:ASN:ND2	2:K:394:LEU:HA	2.19	0.58
2:I:71:LEU:CD1	2:I:80:ALA:H	2.17	0.58
2:I:286:ASN:HB2	2:I:311:GLN:HE22	1.68	0.58
2:I:257:ASN:ND2	2:I:394:LEU:HA	2.19	0.58
2:G:271:VAL:CG1	2:G:281:GLU:HG2	2.33	0.58
2:G:288:ALA:HB3	2:G:311:GLN:HG3	1.85	0.58
1:F:938:PRO:O	1:F:939:GLY:C	2.35	0.58
2:K:420:TRP:HB2	2:K:422:THR:CG2	2.33	0.58
2:J:417:VAL:HG11	2:J:421:GLY:HA2	1.85	0.58
1:B:958:HIS:O	1:B:1369:THR:CG2	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:248:GLU:O	1:D:250:ARG:N	2.37	0.58
1:C:558:MET:O	1:C:560:ASP:N	2.36	0.58
1:C:76:VAL:HG13	1:C:129:GLU:O	2.04	0.58
1:E:1131:THR:HB	1:E:1134:LYS:CG	2.32	0.58
1:D:947:PHE:O	1:D:947:PHE:CD1	2.56	0.58
1:E:1251:THR:OG1	1:E:1281:VAL:HG11	2.04	0.58
1:F:78:LEU:HB3	1:F:79:PRO:HD2	1.86	0.58
1:E:89:CYS:O	1:E:93:VAL:HG23	2.03	0.58
1:D:193:PRO:O	1:D:194:ASP:C	2.40	0.58
1:C:575:VAL:HG13	1:C:759:LEU:HD22	1.84	0.58
1:A:1221:PRO:CG	1:A:1229:MET:HE1	2.34	0.58
1:A:1227:GLU:OE1	1:E:876:ASN:HB3	2.04	0.58
2:L:291:HIS:HE1	2:L:317:LYS:CB	2.16	0.58
1:A:251:MET:SD	1:A:532:ILE:HD11	2.44	0.58
2:I:295:LEU:CD2	2:I:319:LEU:HD13	2.32	0.58
1:A:515:ARG:NE	1:A:1367:TYR:HE1	1.99	0.58
2:J:212:VAL:HG22	2:J:214:TYR:CE1	2.38	0.58
2:J:34:ARG:O	2:J:122:SER:HB2	2.03	0.58
2:J:68:TRP:HD1	2:J:69:LEU:N	2.01	0.58
2:L:449:LEU:HD23	2:L:452:TRP:CD2	2.38	0.58
2:L:257:ASN:HD22	2:L:364:ALA:HB3	1.67	0.58
2:L:286:ASN:HB2	2:L:311:GLN:HE22	1.68	0.58
2:H:207:LEU:C	2:H:207:LEU:HD12	2.24	0.58
2:H:447:ALA:HB1	2:H:452:TRP:HE3	1.65	0.58
2:H:99:PRO:HD2	2:H:449:LEU:CD1	2.34	0.58
1:A:345:MET:CE	1:A:385:LEU:CB	2.81	0.58
2:H:420:TRP:HB2	2:H:422:THR:CG2	2.33	0.58
1:C:102:TYR:HA	1:C:136:ASN:OD1	2.04	0.58
2:I:316:VAL:CB	2:I:342:VAL:HG22	2.33	0.58
1:A:76:VAL:HG13	1:A:129:GLU:O	2.04	0.58
1:A:1131:THR:HB	1:A:1134:LYS:CG	2.32	0.58
1:E:177:ILE:CD1	1:E:179:TYR:HE1	2.17	0.58
1:A:607:THR:HB	1:A:645:ARG:HB2	1.84	0.58
1:C:570:ASP:OD1	1:C:572:THR:HB	2.04	0.58
1:D:660:GLY:HA2	1:D:721:GLY:H	1.68	0.58
1:A:695:ASN:O	1:A:696:TYR:C	2.37	0.58
1:B:845:SER:O	1:B:848:ALA:HB3	2.04	0.58
2:L:361:GLY:O	2:L:362:VAL:HB	2.01	0.58
1:C:782:ARG:CB	2:K:52:VAL:HA	2.26	0.58
1:D:1222:LEU:H	1:D:1229:MET:HE2	1.68	0.58
1:A:1375:ILE:HG22	1:A:1375:ILE:O	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1356:VAL:HG11	1:A:1431:HIS:CG	2.38	0.58
2:I:108:CYS:SG	2:I:118:VAL:HG22	2.44	0.58
2:K:387:GLU:HG2	2:K:388:PHE:N	2.18	0.58
1:B:551:THR:O	1:B:554:GLU:HG2	2.03	0.58
2:G:77:LEU:HD22	2:G:130:THR:OG1	2.04	0.58
2:G:32:TYR:HE2	2:G:194:LYS:HB3	1.67	0.58
2:G:49:GLN:OE1	2:G:66:PRO:HA	2.04	0.58
2:G:71:LEU:CD1	2:G:80:ALA:H	2.17	0.58
2:G:99:PRO:HD2	2:G:449:LEU:CD1	2.34	0.58
2:K:220:VAL:HG22	8:K:484:FAD:C6A	2.29	0.58
2:I:238:VAL:CG2	2:I:439:ALA:HB2	2.33	0.58
1:A:143:GLN:HE21	1:A:143:GLN:CA	2.14	0.58
2:H:49:GLN:OE1	2:H:66:PRO:HA	2.04	0.58
2:H:90:PHE:HB3	2:H:93:ILE:HG22	1.86	0.58
2:I:420:TRP:HB2	2:I:422:THR:CG2	2.33	0.58
1:B:113:ASN:HD21	1:B:115:ASP:H	1.47	0.58
2:H:418:THR:HG22	2:H:422:THR:O	2.04	0.58
1:A:826:ARG:HH11	1:A:826:ARG:CG	1.97	0.58
1:E:558:MET:O	1:E:560:ASP:N	2.36	0.58
1:A:582:LEU:HB3	1:A:755:GLN:HE21	1.69	0.58
1:B:838:VAL:CG1	1:B:839:PRO:N	2.66	0.58
1:C:982:GLN:NE2	1:C:1240:ARG:HD2	2.16	0.58
1:C:1388:THR:O	1:C:1388:THR:HG23	2.01	0.58
1:F:40:THR:O	1:F:40:THR:HG22	2.03	0.58
1:A:894:PHE:CD2	1:A:924:GLN:HG3	2.39	0.58
1:A:61:VAL:CG1	1:A:61:VAL:O	2.51	0.58
1:C:1038:ILE:O	1:C:1038:ILE:HG22	2.02	0.58
1:E:296:MET:O	1:E:297:MET:C	2.40	0.58
1:E:782:ARG:NE	2:L:53:PRO:CD	2.60	0.58
2:K:108:CYS:SG	2:K:118:VAL:HG22	2.44	0.58
1:A:1447:TRP:CD2	1:A:1451:VAL:CG2	2.87	0.58
1:C:1375:ILE:O	1:C:1375:ILE:HG22	2.02	0.58
1:C:1449:ARG:NH1	1:C:1449:ARG:CB	2.14	0.58
1:E:1447:TRP:CD2	1:E:1451:VAL:CG2	2.87	0.58
1:A:249:THR:HG22	1:A:250:ARG:HG2	1.85	0.58
1:A:531:ASN:O	1:A:533:LEU:N	2.37	0.58
2:H:189:GLY:O	2:H:265:LEU:HD13	2.03	0.58
2:J:257:ASN:ND2	2:J:394:LEU:HA	2.19	0.58
2:K:34:ARG:O	2:K:122:SER:HB2	2.03	0.58
2:J:69:LEU:HD12	2:J:69:LEU:C	2.23	0.58
2:I:257:ASN:HD22	2:I:364:ALA:HB3	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:271:VAL:CG2	2:G:285:LEU:HG	2.31	0.58
2:L:271:VAL:CG1	2:L:281:GLU:HG2	2.33	0.58
2:H:77:LEU:HD22	2:H:130:THR:OG1	2.04	0.58
2:H:175:VAL:HG12	2:H:213:ILE:O	2.04	0.58
2:H:37:ASP:OD1	2:H:38:GLU:HG2	2.03	0.58
1:B:1220:ARG:N	1:B:1221:PRO:CD	2.67	0.58
1:E:236:THR:HG23	1:E:240:ASN:HD21	1.69	0.58
2:L:417:VAL:HG11	2:L:421:GLY:HA2	1.86	0.58
2:I:178:ARG:HD3	2:I:219:GLU:OE1	2.04	0.58
1:A:330:PRO:HA	1:A:350:LEU:HB2	1.84	0.58
2:J:420:TRP:HB2	2:J:422:THR:CG2	2.33	0.58
1:B:248:GLU:O	1:B:250:ARG:N	2.37	0.58
1:F:248:GLU:HA	1:F:251:MET:HG2	1.85	0.58
1:C:582:LEU:O	1:C:585:ALA:HB3	2.03	0.58
1:F:573:PHE:HB2	1:F:574:PRO:HD2	1.85	0.58
1:F:594:GLU:OE1	1:F:598:ARG:NH2	2.34	0.58
1:A:419:TRP:O	1:A:422:ASN:HB2	2.04	0.58
1:A:296:MET:O	1:A:297:MET:C	2.40	0.58
1:F:484:PRO:HG3	1:F:823:MET:HG3	1.85	0.58
1:D:266:VAL:O	1:D:279:THR:HG21	2.01	0.58
1:A:570:ASP:O	1:A:572:THR:N	2.37	0.58
1:A:45:GLY:HA3	1:A:224:PRO:HD2	1.85	0.58
1:C:369:THR:HG23	1:C:370:GLY:N	2.17	0.58
1:F:845:SER:O	1:F:848:ALA:HB3	2.04	0.58
1:F:757:LYS:HE2	1:F:1176:GLU:OE2	2.04	0.58
1:D:1368:MET:HB3	1:D:1387:MET:HG3	1.86	0.58
1:E:1285:LYS:HA	1:E:1304:THR:O	2.04	0.58
1:F:997:THR:HG22	1:F:998:VAL:N	2.19	0.58
1:E:547:SER:C	1:E:549:VAL:H	2.05	0.58
1:F:1368:MET:HB3	1:F:1387:MET:HG3	1.86	0.58
1:A:625:GLY:O	1:A:626:ALA:C	2.42	0.58
1:A:780:ARG:NH1	2:J:50:CYS:CB	2.56	0.57
1:D:1220:ARG:N	1:D:1221:PRO:CD	2.67	0.57
1:A:1442:GLU:CG	2:L:374:ALA:O	2.51	0.57
1:E:663:ALA:O	1:E:720:ARG:NE	2.36	0.57
1:A:227:MET:HE2	1:A:282:GLU:HG2	1.85	0.57
1:E:260:MET:O	1:E:263:LEU:CB	2.52	0.57
2:K:321:ARG:HD3	2:K:322:ARG:HB2	1.86	0.57
2:H:271:VAL:CG1	2:H:281:GLU:HG2	2.33	0.57
2:G:138:LYS:HE3	2:G:164:GLU:OE2	2.04	0.57
2:G:305:VAL:HG11	2:G:342:VAL:HG21	1.82	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:746:ILE:HG23	1:C:1182:ASP:CB	2.29	0.57
1:D:1442:GLU:HA	2:I:373:ASP:OD2	2.04	0.57
2:K:99:PRO:HD2	2:K:449:LEU:CD1	2.34	0.57
2:J:132:TRP:HD1	2:J:202:ARG:CD	2.17	0.57
2:J:37:ASP:OD1	2:J:38:GLU:HG2	2.03	0.57
2:J:238:VAL:CG2	2:J:439:ALA:HB2	2.33	0.57
2:J:49:GLN:OE1	2:J:66:PRO:HA	2.04	0.57
2:L:138:LYS:HE3	2:L:164:GLU:OE2	2.04	0.57
2:L:99:PRO:HD2	2:L:449:LEU:CD1	2.34	0.57
1:E:236:THR:HG23	1:E:240:ASN:ND2	2.19	0.57
2:L:365:VAL:CG2	2:L:366:ARG:HG3	2.31	0.57
1:F:528:ASN:HB2	1:F:542:LEU:HD22	1.85	0.57
1:F:113:ASN:HD21	1:F:115:ASP:H	1.47	0.57
1:B:227:MET:HE2	1:B:282:GLU:CG	2.34	0.57
1:B:1318:ASN:ND2	1:B:1318:ASN:H	2.01	0.57
1:C:582:LEU:HB3	1:C:755:GLN:HE21	1.69	0.57
1:E:582:LEU:HB3	1:E:755:GLN:HE21	1.69	0.57
1:D:589:ILE:HD12	1:D:627:VAL:HG23	1.85	0.57
1:F:838:VAL:O	1:F:1151:ALA:HB1	2.04	0.57
1:A:319:TYR:O	1:A:322:SER:OG	2.17	0.57
1:C:319:TYR:O	1:C:322:SER:OG	2.17	0.57
1:E:223:GLN:HB3	1:E:224:PRO:HA	1.85	0.57
1:A:1282:GLN:CA	1:A:1302:GLY:O	2.52	0.57
1:D:1291:ASP:C	1:D:1291:ASP:OD1	2.42	0.57
1:D:1247:SER:OG	1:D:1280:ALA:HA	2.05	0.57
1:B:869:GLY:O	1:B:873:VAL:HG23	2.03	0.57
1:C:494:GLY:O	1:C:495:LEU:C	2.42	0.57
1:B:607:THR:HB	1:B:645:ARG:HB2	1.86	0.57
1:A:1114:PRO:CG	2:J:109:VAL:O	2.51	0.57
1:E:447:LEU:HD12	1:E:447:LEU:O	2.04	0.57
2:L:108:CYS:SG	2:L:118:VAL:HG22	2.44	0.57
1:E:897:ASP:C	1:E:897:ASP:OD1	2.42	0.57
1:C:1446:ASP:O	1:C:1447:TRP:C	2.42	0.57
1:C:260:MET:O	1:C:263:LEU:CB	2.52	0.57
2:H:288:ALA:HB3	2:H:311:GLN:HG3	1.85	0.57
2:G:37:ASP:OD1	2:G:38:GLU:HG2	2.03	0.57
1:C:57:ASP:O	1:C:58:HIS:C	2.41	0.57
2:I:291:HIS:HE1	2:I:317:LYS:CB	2.16	0.57
2:K:138:LYS:HE3	2:K:164:GLU:OE2	2.04	0.57
2:K:447:ALA:HB1	2:K:452:TRP:HE3	1.65	0.57
2:I:138:LYS:HE3	2:I:164:GLU:OE2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:291:HIS:HD2	2:G:392:ALA:CB	2.16	0.57
1:A:139:VAL:CG1	1:A:143:GLN:CB	2.81	0.57
2:L:288:ALA:HB3	2:L:311:GLN:HG3	1.85	0.57
2:H:34:ARG:O	2:H:122:SER:HB2	2.03	0.57
2:H:68:TRP:HD1	2:H:69:LEU:N	2.01	0.57
2:K:418:THR:HG22	2:K:422:THR:O	2.04	0.57
1:A:1008:THR:HG22	1:A:1009:ILE:H	1.64	0.57
1:E:76:VAL:HG13	1:E:129:GLU:O	2.04	0.57
2:G:277:VAL:HG12	2:G:279:ALA:H	1.68	0.57
1:D:648:GLU:CG	1:D:648:GLU:O	2.51	0.57
1:D:1:CYS:SG	1:D:211:TYR:HB2	2.45	0.57
1:E:957:ARG:HD2	1:E:965:LEU:HD12	1.87	0.57
1:B:1109:HIS:N	1:B:1109:HIS:ND1	2.44	0.57
1:B:78:LEU:HB3	1:B:79:PRO:HD2	1.86	0.57
1:C:457:THR:O	1:C:460:ASP:HB2	2.04	0.57
1:F:1055:VAL:O	1:F:1056:LEU:C	2.41	0.57
2:L:114:THR:HG23	2:L:115:HIS:H	1.69	0.57
1:A:897:ASP:C	1:A:897:ASP:OD1	2.42	0.57
1:C:876:ASN:CB	1:E:1227:GLU:CD	2.73	0.57
1:C:876:ASN:CB	1:E:1227:GLU:OE2	2.52	0.57
1:A:1374:VAL:O	1:A:1375:ILE:HG12	2.01	0.57
1:F:782:ARG:NE	2:I:53:PRO:HD3	2.17	0.57
2:H:108:CYS:SG	2:H:118:VAL:HG22	2.44	0.57
1:B:780:ARG:HB3	2:G:51:GLY:C	2.24	0.57
2:K:291:HIS:HD2	2:K:392:ALA:CB	2.16	0.57
1:C:250:ARG:NH1	1:C:530:GLY:HA2	2.20	0.57
1:F:731:SER:N	1:F:748:GLY:H	2.02	0.57
2:I:132:TRP:HD1	2:I:202:ARG:CD	2.17	0.57
2:I:99:PRO:HD2	2:I:449:LEU:CD1	2.34	0.57
1:A:1212:ASP:CG	1:A:1243:GLY:H	2.07	0.57
2:K:417:VAL:HG11	2:K:421:GLY:HA2	1.86	0.57
2:J:418:THR:HG22	2:J:422:THR:O	2.04	0.57
2:I:360:THR:HG22	2:I:365:VAL:CG1	2.33	0.57
1:D:236:THR:HG22	1:D:328:ASP:H	1.62	0.57
1:B:1052:VAL:O	1:B:1053:HIS:C	2.38	0.57
1:F:693:MET:HA	1:F:693:MET:HE3	1.85	0.57
1:B:1251:THR:OG1	1:B:1281:VAL:HG11	2.05	0.57
1:D:1251:THR:OG1	1:D:1281:VAL:HG11	2.05	0.57
1:E:218:THR:HG22	1:E:221:LEU:H	1.69	0.57
1:F:526:LEU:HD12	1:F:526:LEU:H	1.66	0.57
1:D:52:GLN:NE2	1:D:71:LEU:HB2	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:419:TRP:O	1:E:422:ASN:HB2	2.04	0.57
1:D:1121:ASP:C	1:D:1121:ASP:OD1	2.42	0.57
1:F:37:ASP:OD1	1:F:38:GLY:N	2.38	0.57
1:C:894:PHE:CD2	1:C:924:GLN:HG3	2.39	0.57
1:F:666:VAL:HG12	1:F:667:ASN:N	2.19	0.57
1:A:606:LEU:C	1:A:607:THR:HG22	2.24	0.57
1:A:223:GLN:HB3	1:A:224:PRO:HA	1.85	0.57
1:E:1282:GLN:CA	1:E:1302:GLY:O	2.52	0.57
1:C:625:GLY:O	1:C:626:ALA:C	2.42	0.57
1:D:845:SER:O	1:D:848:ALA:HB3	2.04	0.57
1:C:1285:LYS:HA	1:C:1304:THR:O	2.04	0.57
1:D:757:LYS:HE2	1:D:1176:GLU:OE2	2.04	0.57
1:F:4:GLY:HA3	1:F:207:TYR:CZ	2.39	0.57
1:A:876:ASN:CB	1:C:1227:GLU:OE2	2.52	0.57
1:C:447:LEU:O	1:C:447:LEU:HD12	2.04	0.57
2:J:321:ARG:HB2	2:J:351:GLU:CB	2.35	0.57
2:I:114:THR:HG23	2:I:115:HIS:H	1.69	0.57
1:A:260:MET:O	1:A:263:LEU:CB	2.52	0.57
1:E:250:ARG:NH1	1:E:530:GLY:HA2	2.20	0.57
1:C:56:LYS:O	1:C:57:ASP:C	2.42	0.57
1:C:515:ARG:NE	1:C:1367:TYR:HE1	1.99	0.57
2:K:430:LYS:HD2	2:K:460:ALA:HB2	1.82	0.57
2:K:43:GLN:CD	2:K:119:THR:HG23	2.25	0.57
2:K:430:LYS:CE	2:K:440:ALA:HB2	2.32	0.57
2:K:449:LEU:HD11	2:K:451:VAL:CG1	2.31	0.57
2:H:291:HIS:HD2	2:H:392:ALA:CB	2.16	0.57
2:J:71:LEU:CD1	2:J:80:ALA:H	2.17	0.57
2:H:153:ILE:HG12	2:H:220:VAL:CG2	2.34	0.57
2:H:43:GLN:CD	2:H:119:THR:HG23	2.25	0.57
1:F:31:ARG:NH1	1:F:368:GLU:OE1	2.37	0.57
1:D:295:LYS:HE2	1:D:299:VAL:CG1	2.35	0.57
1:E:102:TYR:HA	1:E:136:ASN:OD1	2.04	0.57
1:B:387:PRO:CD	1:B:1344:GLU:OE2	2.47	0.57
1:A:582:LEU:O	1:A:585:ALA:HB3	2.03	0.57
1:E:582:LEU:O	1:E:585:ALA:HB3	2.03	0.57
1:D:537:GLU:HG3	1:D:538:THR:N	2.08	0.57
1:B:739:PHE:C	1:B:740:PRO:O	2.43	0.57
1:B:648:GLU:CG	1:B:648:GLU:O	2.51	0.57
1:F:1274:GLN:NE2	1:F:1293:ASN:HB3	2.17	0.57
1:C:1282:GLN:CA	1:C:1302:GLY:O	2.52	0.57
1:F:1291:ASP:C	1:F:1291:ASP:OD1	2.42	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:652:THR:CG2	1:A:703:GLY:HA3	2.35	0.57
1:D:1055:VAL:O	1:D:1056:LEU:C	2.41	0.57
1:B:757:LYS:HE2	1:B:1176:GLU:OE2	2.04	0.57
1:D:1228:LYS:H	1:F:901:ASP:HA	1.69	0.57
1:E:1446:ASP:O	1:E:1447:TRP:C	2.41	0.57
1:C:293:MET:HG2	1:C:410:LEU:CD2	2.35	0.57
1:E:251:MET:SD	1:E:532:ILE:HD11	2.44	0.57
1:D:1438:ARG:NE	2:I:376:GLY:C	2.29	0.57
2:I:321:ARG:HB2	2:I:351:GLU:CB	2.35	0.57
2:K:175:VAL:HG12	2:K:213:ILE:O	2.04	0.57
2:K:190:ILE:HG23	2:K:191:PRO:HD2	1.84	0.57
2:K:71:LEU:CD1	2:K:80:ALA:H	2.17	0.57
2:I:416:LYS:HB2	2:I:416:LYS:HZ2	1.69	0.57
2:J:153:ILE:HG12	2:J:220:VAL:CG2	2.33	0.57
1:C:139:VAL:HG12	1:C:143:GLN:HB2	1.87	0.57
1:C:236:THR:HG23	1:C:240:ASN:HD21	1.69	0.57
2:L:77:LEU:HD22	2:L:130:THR:OG1	2.04	0.57
2:L:49:GLN:OE1	2:L:66:PRO:HA	2.04	0.57
1:F:513:SER:CB	1:F:520:MET:HE1	2.23	0.57
2:H:132:TRP:HD1	2:H:202:ARG:CD	2.17	0.57
2:G:178:ARG:HD3	2:G:219:GLU:OE1	2.04	0.57
1:F:235:ASN:ND2	1:F:328:ASP:O	2.38	0.57
1:D:1366:GLU:CG	1:D:1367:TYR:CD2	2.84	0.57
2:I:365:VAL:CG2	2:I:366:ARG:HG3	2.31	0.57
2:J:100:GLN:C	2:J:105:GLU:HG2	2.25	0.57
2:K:100:GLN:C	2:K:105:GLU:HG2	2.25	0.57
2:I:100:GLN:NE2	2:I:100:GLN:HA	2.17	0.57
1:A:950:THR:CG2	1:A:952:MET:H	2.15	0.57
1:A:893:ARG:HG2	1:A:903:TRP:HB2	1.85	0.57
1:C:606:LEU:C	1:C:607:THR:HG22	2.24	0.57
1:E:606:LEU:C	1:E:607:THR:HG22	2.24	0.57
1:B:1:CYS:SG	1:B:211:TYR:HB2	2.45	0.57
1:C:1251:THR:OG1	1:C:1281:VAL:HG11	2.04	0.57
1:B:1336:LEU:HB3	1:B:1355:VAL:HG13	1.84	0.57
1:D:116:ILE:HD13	1:D:190:THR:CG2	2.35	0.57
1:B:997:THR:HG22	1:B:998:VAL:N	2.19	0.57
1:A:457:THR:O	1:A:460:ASP:HB2	2.04	0.57
2:J:114:THR:HG23	2:J:115:HIS:H	1.69	0.57
1:B:731:SER:N	1:B:748:GLY:H	2.02	0.57
1:F:1220:ARG:N	1:F:1221:PRO:CD	2.67	0.57
2:L:291:HIS:CE1	2:L:317:LYS:HB3	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:321:ARG:HD3	2:L:322:ARG:HB2	1.86	0.57
2:H:110:ILE:HB	2:H:115:HIS:CE1	2.40	0.57
1:E:734:LEU:O	1:E:734:LEU:HD12	2.04	0.57
2:I:302:MET:HE1	2:I:333:GLU:HG3	1.85	0.57
2:K:77:LEU:HD22	2:K:130:THR:OG1	2.04	0.57
2:K:64:ASN:ND2	2:K:67:ASP:HB2	2.20	0.57
2:I:175:VAL:HG12	2:I:213:ILE:O	2.04	0.57
2:J:138:LYS:HE3	2:J:164:GLU:OE2	2.04	0.57
2:G:304:CYS:O	2:G:307:THR:HG23	2.05	0.57
2:L:64:ASN:ND2	2:L:67:ASP:HB2	2.20	0.57
2:H:178:ARG:HD3	2:H:219:GLU:OE1	2.04	0.57
2:J:178:ARG:HD3	2:J:219:GLU:OE1	2.04	0.57
1:F:1009:ILE:O	1:F:1010:ALA:C	2.37	0.57
1:C:102:TYR:CE2	1:C:144:PHE:CD1	2.93	0.57
1:F:1210:THR:HG22	1:F:1211:LEU:N	2.09	0.57
2:H:100:GLN:C	2:H:105:GLU:HG2	2.25	0.57
1:A:558:MET:O	1:A:560:ASP:N	2.36	0.57
1:D:918:THR:O	1:D:919:ALA:C	2.43	0.57
1:D:80:ARG:HD3	1:D:125:ARG:O	2.05	0.57
1:B:1122:ASP:O	1:B:1126:GLN:HG3	2.05	0.57
1:B:484:PRO:HG3	1:B:823:MET:HG3	1.85	0.57
1:D:607:THR:HB	1:D:645:ARG:HB2	1.86	0.57
1:D:997:THR:HG22	1:D:998:VAL:N	2.19	0.57
1:A:89:CYS:O	1:A:93:VAL:HG23	2.03	0.57
1:C:957:ARG:HD2	1:C:965:LEU:HD12	1.87	0.57
2:J:108:CYS:SG	2:J:118:VAL:HG22	2.44	0.57
1:A:876:ASN:CB	1:C:1227:GLU:CD	2.73	0.57
2:K:110:ILE:HB	2:K:115:HIS:CE1	2.40	0.57
1:A:1446:ASP:O	1:A:1447:TRP:C	2.42	0.57
1:D:782:ARG:HH21	2:H:51:GLY:HA3	0.69	0.57
1:C:706:LYS:O	1:C:707:ILE:C	2.43	0.57
2:G:108:CYS:SG	2:G:118:VAL:HG22	2.44	0.57
2:K:302:MET:HE1	2:K:334:VAL:N	2.20	0.57
1:A:250:ARG:NH1	1:A:530:GLY:HA2	2.20	0.57
2:K:207:LEU:C	2:K:207:LEU:HD12	2.24	0.57
2:K:90:PHE:HB3	2:K:93:ILE:HG22	1.86	0.57
1:E:838:VAL:HG12	1:E:839:PRO:CD	2.32	0.57
2:H:321:ARG:HD3	2:H:322:ARG:HB2	1.86	0.57
2:H:320:TYR:CD2	2:H:346:TRP:CD2	2.93	0.57
2:I:89:ASN:OD1	2:I:164:GLU:HB3	2.05	0.57
2:J:89:ASN:OD1	2:J:164:GLU:HB3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:320:TYR:CD2	2:G:346:TRP:CD2	2.92	0.57
1:F:1442:GLU:HA	2:G:373:ASP:OD2	2.04	0.57
2:L:89:ASN:OD1	2:L:164:GLU:HB3	2.05	0.57
2:H:71:LEU:CD1	2:H:80:ALA:H	2.17	0.57
1:F:1366:GLU:CG	1:F:1367:TYR:CD2	2.84	0.57
1:B:295:LYS:HZ3	1:B:299:VAL:HG12	1.69	0.57
1:B:235:ASN:ND2	1:B:328:ASP:O	2.38	0.57
1:A:1388:THR:O	1:A:1388:THR:HG23	2.01	0.57
1:F:823:MET:O	1:F:824:GLN:NE2	2.37	0.57
1:C:787:ARG:HH12	1:C:821:PRO:CB	2.17	0.57
1:C:652:THR:CG2	1:C:703:GLY:HA3	2.34	0.57
1:E:652:THR:CG2	1:E:703:GLY:HA3	2.35	0.57
1:E:1288:VAL:HG12	1:E:1288:VAL:O	2.05	0.57
1:E:61:VAL:CG1	1:E:61:VAL:O	2.51	0.57
1:B:797:THR:HG21	1:B:812:LYS:HG2	1.86	0.57
1:F:607:THR:HB	1:F:645:ARG:HB2	1.86	0.57
1:E:494:GLY:O	1:E:495:LEU:C	2.42	0.57
2:J:320:TYR:CD2	2:J:346:TRP:CD2	2.92	0.57
1:C:246:ALA:O	1:C:247:HIS:C	2.42	0.57
1:C:251:MET:SD	1:C:532:ILE:HD11	2.44	0.57
1:C:551:THR:HG23	1:C:554:GLU:OE2	2.05	0.57
1:F:446:GLU:O	1:F:447:LEU:C	2.40	0.57
1:B:1442:GLU:HA	2:H:373:ASP:OD2	2.04	0.57
2:J:99:PRO:HD2	2:J:449:LEU:CD1	2.34	0.57
2:H:430:LYS:CE	2:H:440:ALA:HB2	2.32	0.57
2:H:432:THR:HG22	2:H:434:MET:N	2.15	0.57
2:H:417:VAL:HG11	2:H:421:GLY:HA2	1.86	0.57
1:E:102:TYR:CE2	1:E:144:PHE:CD1	2.93	0.57
1:F:950:THR:HG23	1:F:951:GLU:H	1.69	0.57
1:C:560:ASP:O	1:C:562:MET:N	2.38	0.57
1:A:560:ASP:O	1:A:562:MET:N	2.38	0.57
1:E:562:MET:HE3	1:E:566:ALA:HB2	1.85	0.57
1:D:572:THR:HG23	1:D:573:PHE:N	2.16	0.57
1:B:594:GLU:OE1	1:B:598:ARG:NH2	2.34	0.57
1:C:894:PHE:CE2	1:C:924:GLN:HG3	2.40	0.57
2:H:277:VAL:HG12	2:H:279:ALA:H	1.68	0.57
1:E:45:GLY:HA3	1:E:224:PRO:HD2	1.85	0.57
1:C:547:SER:C	1:C:549:VAL:N	2.58	0.57
1:A:1285:LYS:HA	1:A:1304:THR:O	2.04	0.57
2:J:110:ILE:HB	2:J:115:HIS:CE1	2.40	0.57
2:K:114:THR:HG23	2:K:115:HIS:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1131:THR:CG2	1:B:1133:GLU:OE1	2.42	0.57
1:D:777:GLY:O	1:D:788:HIS:CE1	2.51	0.57
1:E:291:ALA:HB3	1:E:292:PRO:CD	2.27	0.57
1:E:293:MET:HG2	1:E:410:LEU:CD2	2.35	0.57
2:G:64:ASN:ND2	2:G:67:ASP:HB2	2.20	0.57
1:E:57:ASP:O	1:E:58:HIS:C	2.41	0.57
1:E:913:GLY:O	1:E:915:PHE:N	2.35	0.57
2:I:321:ARG:O	2:I:351:GLU:HA	2.05	0.57
2:K:432:THR:HG22	2:K:434:MET:N	2.15	0.57
1:B:1438:ARG:NE	2:H:376:GLY:C	2.29	0.57
2:H:181:ARG:O	2:H:182:MET:HE3	2.04	0.57
2:I:440:ALA:HB1	2:I:456:ASP:HB2	1.85	0.57
2:J:77:LEU:HD22	2:J:130:THR:OG1	2.04	0.57
2:G:321:ARG:HB2	2:G:351:GLU:CB	2.35	0.57
2:G:366:ARG:NE	2:G:391:GLN:HG2	2.14	0.57
1:A:1075:THR:CG2	1:A:1076:GLY:N	2.66	0.57
1:B:589:ILE:HD12	1:B:627:VAL:HG23	1.85	0.57
1:B:1121:ASP:C	1:B:1121:ASP:OD1	2.42	0.57
1:D:211:TYR:O	1:D:212:SER:HB3	2.04	0.57
1:E:1335:LYS:HA	1:E:1354:THR:O	2.05	0.57
1:F:797:THR:HG21	1:F:812:LYS:HG2	1.86	0.57
1:A:957:ARG:HD2	1:A:965:LEU:HD12	1.87	0.57
1:C:857:GLY:HA2	1:C:883:ASP:O	2.05	0.57
1:E:457:THR:O	1:E:460:ASP:HB2	2.04	0.57
1:F:116:ILE:HD13	1:F:190:THR:CG2	2.35	0.57
1:A:447:LEU:O	1:A:447:LEU:HD12	2.04	0.57
1:A:781:PHE:CE2	2:J:57:VAL:CG2	2.82	0.57
1:A:902:ASN:CA	1:C:1227:GLU:HG2	2.23	0.57
1:A:1227:GLU:OE2	1:E:876:ASN:CB	2.52	0.57
2:L:320:TYR:CD2	2:L:346:TRP:CD2	2.93	0.57
2:J:321:ARG:HD3	2:J:322:ARG:HB2	1.86	0.57
1:A:149:TYR:O	1:A:150:ILE:C	2.42	0.57
1:A:825:LEU:HD12	1:A:1186:ARG:NH1	2.13	0.57
1:E:531:ASN:C	1:E:533:LEU:N	2.57	0.57
2:H:304:CYS:O	2:H:307:THR:HG23	2.05	0.57
2:K:304:CYS:O	2:K:307:THR:HG23	2.05	0.57
2:H:321:ARG:HB2	2:H:351:GLU:CB	2.35	0.57
2:I:64:ASN:ND2	2:I:67:ASP:HB2	2.20	0.57
2:J:440:ALA:HB1	2:J:456:ASP:HB2	1.85	0.57
2:I:304:CYS:O	2:I:307:THR:HG23	2.05	0.57
2:G:418:THR:HG22	2:G:422:THR:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:418:THR:HG22	2:L:422:THR:O	2.04	0.57
2:I:418:THR:HG22	2:I:422:THR:O	2.04	0.57
1:B:528:ASN:HB2	1:B:542:LEU:HD22	1.86	0.57
2:L:100:GLN:C	2:L:105:GLU:HG2	2.25	0.57
1:D:823:MET:O	1:D:824:GLN:NE2	2.37	0.57
1:D:1122:ASP:O	1:D:1126:GLN:HG3	2.05	0.57
1:B:666:VAL:HG12	1:B:667:ASN:N	2.19	0.57
1:E:570:ASP:OD1	1:E:572:THR:HB	2.04	0.57
1:F:1:CYS:SG	1:F:211:TYR:HB2	2.45	0.57
1:F:211:TYR:O	1:F:212:SER:HB3	2.04	0.57
1:C:1335:LYS:HA	1:C:1354:THR:O	2.05	0.57
1:A:1335:LYS:HA	1:A:1354:THR:O	2.05	0.57
1:C:447:LEU:HD13	1:C:670:LEU:CD2	2.33	0.56
1:A:1227:GLU:CD	1:E:876:ASN:CB	2.73	0.56
1:B:728:ILE:HD12	1:B:1047:MET:HE1	1.82	0.56
1:B:1393:TYR:CD2	1:B:1424:LEU:HD12	2.40	0.56
2:G:110:ILE:HB	2:G:115:HIS:CE1	2.40	0.56
2:K:320:TYR:CD2	2:K:346:TRP:CD2	2.92	0.56
2:I:320:TYR:CD2	2:I:346:TRP:CD2	2.92	0.56
2:I:321:ARG:HD3	2:I:322:ARG:HB2	1.86	0.56
2:K:49:GLN:OE1	2:K:66:PRO:HA	2.04	0.56
2:I:49:GLN:OE1	2:I:66:PRO:HA	2.04	0.56
2:J:175:VAL:HG12	2:J:213:ILE:O	2.04	0.56
1:B:113:ASN:ND2	1:B:113:ASN:C	2.49	0.56
1:D:528:ASN:HB2	1:D:542:LEU:HD22	1.86	0.56
1:E:560:ASP:O	1:E:562:MET:N	2.38	0.56
4:D:2474:FMN:O4'	4:D:2474:FMN:H9	2.05	0.56
4:B:2474:FMN:O4'	4:B:2474:FMN:H9	2.05	0.56
2:I:246:ARG:HD3	2:I:399:LEU:CB	2.33	0.56
1:C:893:ARG:HG2	1:C:903:TRP:HB2	1.85	0.56
1:B:209:GLN:HG3	1:B:210:ARG:N	2.20	0.56
1:B:116:ILE:HD13	1:B:190:THR:CG2	2.35	0.56
1:D:78:LEU:HB3	1:D:79:PRO:HD2	1.86	0.56
1:E:857:GLY:HA2	1:E:883:ASP:O	2.05	0.56
1:C:1226:GLY:O	1:C:1227:GLU:O	2.23	0.56
2:L:321:ARG:O	2:L:351:GLU:HA	2.05	0.56
1:D:783:LYS:NZ	2:H:57:VAL:HG12	2.20	0.56
1:D:731:SER:N	1:D:748:GLY:H	2.02	0.56
2:H:257:ASN:ND2	2:H:394:LEU:HA	2.19	0.56
2:G:174:HIS:ND1	2:G:213:ILE:HG22	2.21	0.56
2:G:132:TRP:HD1	2:G:202:ARG:CD	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:732:ARG:HD2	1:D:94:GLU:OE1	2.06	0.56
2:J:259:VAL:HG21	2:J:264:TYR:CB	2.14	0.56
2:J:304:CYS:O	2:J:307:THR:HG23	2.05	0.56
2:K:89:ASN:OD1	2:K:164:GLU:HB3	2.05	0.56
2:I:207:LEU:HD12	2:I:207:LEU:C	2.24	0.56
1:C:139:VAL:CG1	1:C:143:GLN:CB	2.81	0.56
1:C:1212:ASP:CG	1:C:1243:GLY:H	2.07	0.56
2:G:264:TYR:O	2:G:267:THR:HG23	2.06	0.56
2:L:132:TRP:HD1	2:L:202:ARG:CD	2.17	0.56
2:L:43:GLN:CD	2:L:119:THR:HG23	2.25	0.56
2:L:257:ASN:ND2	2:L:394:LEU:HA	2.19	0.56
2:L:304:CYS:O	2:L:307:THR:HG23	2.05	0.56
1:D:513:SER:CB	1:D:520:MET:CE	2.79	0.56
1:A:236:THR:HG23	1:A:240:ASN:HD21	1.69	0.56
2:I:358:VAL:HG13	2:I:365:VAL:HG13	1.87	0.56
1:B:950:THR:HG23	1:B:951:GLU:H	1.69	0.56
2:I:100:GLN:C	2:I:105:GLU:HG2	2.25	0.56
1:F:857:GLY:HA2	1:F:883:ASP:O	2.05	0.56
1:F:1121:ASP:C	1:F:1121:ASP:OD1	2.42	0.56
1:D:1348:VAL:CG1	1:D:1348:VAL:O	2.53	0.56
1:A:1251:THR:OG1	1:A:1281:VAL:HG11	2.04	0.56
1:C:711:MET:O	1:C:713:ILE:HG13	2.06	0.56
1:A:899:ASN:OD1	1:C:1260:GLN:CD	2.44	0.56
1:A:182:MET:CE	1:A:217:PRO:HB3	2.27	0.56
1:A:1226:GLY:O	1:A:1227:GLU:O	2.23	0.56
1:A:1260:GLN:CD	1:E:899:ASN:OD1	2.44	0.56
1:B:901:ASP:HA	1:F:1228:LYS:H	1.69	0.56
1:B:826:ARG:NH1	1:B:826:ARG:CG	2.67	0.56
1:E:1226:GLY:O	1:E:1227:GLU:O	2.23	0.56
2:L:321:ARG:HB2	2:L:351:GLU:CB	2.35	0.56
1:C:1401:LEU:C	1:C:1401:LEU:CD1	2.73	0.56
2:I:110:ILE:HB	2:I:115:HIS:CE1	2.40	0.56
1:E:710:LYS:CG	1:E:939:GLY:HA3	2.34	0.56
1:E:969:PRO:HD2	1:E:970:PRO:HD2	1.88	0.56
2:K:322:ARG:HD3	2:K:349:ALA:C	2.26	0.56
1:A:531:ASN:C	1:A:533:LEU:N	2.57	0.56
1:A:250:ARG:NE	1:A:639:PHE:CE1	2.73	0.56
1:E:250:ARG:NE	1:E:639:PHE:CE1	2.73	0.56
1:F:1047:MET:HE2	1:F:1186:ARG:NH2	1.97	0.56
1:E:430:VAL:HG11	1:E:554:GLU:HB2	1.88	0.56
1:E:551:THR:HG23	1:E:554:GLU:OE2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:555:PHE:CD1	1:E:555:PHE:C	2.78	0.56
1:F:466:HIS:HB3	1:F:467:PRO:HD3	1.87	0.56
2:H:250:ALA:HB1	2:H:251:PRO:CD	2.33	0.56
2:G:430:LYS:CE	2:G:440:ALA:HB2	2.32	0.56
2:G:43:GLN:CD	2:G:119:THR:HG23	2.25	0.56
1:C:746:ILE:O	1:C:747:SER:C	2.43	0.56
2:J:250:ALA:HB1	2:J:251:PRO:CD	2.33	0.56
1:A:734:LEU:O	1:A:734:LEU:HD12	2.04	0.56
2:I:350:PRO:HD3	2:I:374:ALA:HB2	1.88	0.56
2:K:127:ILE:HG23	2:K:128:ASN:H	1.70	0.56
2:K:132:TRP:HD1	2:K:202:ARG:CD	2.17	0.56
2:I:127:ILE:HG23	2:I:128:ASN:H	1.70	0.56
2:I:174:HIS:ND1	2:I:213:ILE:HG22	2.21	0.56
2:I:43:GLN:CD	2:I:119:THR:HG23	2.25	0.56
2:J:207:LEU:C	2:J:207:LEU:HD12	2.24	0.56
2:J:127:ILE:HG23	2:J:128:ASN:H	1.70	0.56
2:J:174:HIS:ND1	2:J:213:ILE:HG22	2.21	0.56
2:J:43:GLN:CD	2:J:119:THR:HG23	2.25	0.56
1:C:236:THR:HG23	1:C:240:ASN:ND2	2.19	0.56
2:L:440:ALA:HB1	2:L:456:ASP:HB2	1.85	0.56
1:A:139:VAL:HG12	1:A:143:GLN:HB2	1.87	0.56
2:H:127:ILE:HG23	2:H:128:ASN:H	1.70	0.56
2:H:225:SER:HB3	2:H:227:PRO:CD	2.23	0.56
1:E:139:VAL:HG12	1:E:143:GLN:HB2	1.87	0.56
1:A:235:ASN:ND2	1:A:235:ASN:C	2.52	0.56
1:B:295:LYS:HE2	1:B:299:VAL:CG1	2.35	0.56
1:A:961:PRO:O	1:A:963:VAL:N	2.39	0.56
2:L:358:VAL:HG11	2:L:366:ARG:HB2	1.88	0.56
1:D:235:ASN:ND2	1:D:328:ASP:O	2.38	0.56
1:E:961:PRO:O	1:E:963:VAL:N	2.39	0.56
1:F:505:GLN:NE2	1:F:1000:LEU:CB	2.59	0.56
2:G:100:GLN:C	2:G:105:GLU:HG2	2.25	0.56
1:D:950:THR:HG23	1:D:951:GLU:H	1.69	0.56
1:C:1010:ALA:HB2	1:C:1052:VAL:HG22	1.88	0.56
1:F:1251:THR:OG1	1:F:1281:VAL:HG11	2.05	0.56
2:L:246:ARG:HD3	2:L:399:LEU:CB	2.33	0.56
2:J:246:ARG:HD3	2:J:399:LEU:CB	2.33	0.56
1:B:526:LEU:H	1:B:526:LEU:HD12	1.66	0.56
1:E:787:ARG:HH12	1:E:821:PRO:CB	2.17	0.56
1:A:1131:THR:CG2	1:A:1133:GLU:OE1	2.54	0.56
1:B:3:VAL:CG2	1:B:231:ASN:HB2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:45:GLY:HA3	1:C:224:PRO:HD2	1.85	0.56
1:F:1348:VAL:O	1:F:1348:VAL:CG1	2.53	0.56
1:D:1159:ASN:C	1:D:1161:VAL:H	2.09	0.56
1:B:148:LEU:HD22	1:B:172:LEU:HG	1.87	0.56
1:F:239:GLY:O	1:F:243:TRP:CD1	2.59	0.56
1:D:239:GLY:O	1:D:243:TRP:CD1	2.59	0.56
1:F:1247:SER:OG	1:F:1280:ALA:HA	2.04	0.56
1:C:1163:GLY:O	1:C:1165:THR:N	2.39	0.56
1:E:711:MET:O	1:E:713:ILE:HG13	2.06	0.56
1:B:1247:SER:OG	1:B:1280:ALA:HA	2.04	0.56
1:A:896:PRO:CB	1:C:1226:GLY:C	2.74	0.56
1:E:182:MET:CE	1:E:217:PRO:HB3	2.27	0.56
2:L:302:MET:HE1	2:L:334:VAL:N	2.19	0.56
1:F:777:GLY:CA	2:I:52:VAL:HG13	2.12	0.56
1:E:937:LYS:HE3	1:E:1033:SER:CB	2.34	0.56
1:B:782:ARG:HB3	2:G:53:PRO:HD2	1.80	0.56
1:E:1400:SER:O	1:E:1401:LEU:C	2.44	0.56
2:J:264:TYR:O	2:J:267:THR:HG23	2.06	0.56
2:I:302:MET:HE3	2:I:334:VAL:HA	1.87	0.56
2:K:166:LEU:CD2	2:K:461:ALA:HB1	2.31	0.56
2:J:64:ASN:ND2	2:J:67:ASP:HB2	2.20	0.56
2:G:321:ARG:HD3	2:G:322:ARG:HB2	1.86	0.56
2:G:322:ARG:CD	2:G:326:ASN:HD21	2.19	0.56
2:G:322:ARG:HD3	2:G:349:ALA:C	2.26	0.56
2:G:257:ASN:ND2	2:G:394:LEU:HA	2.19	0.56
1:F:1366:GLU:HG2	1:F:1367:TYR:CE2	2.41	0.56
2:J:418:THR:HG1	2:J:420:TRP:HD1	1.52	0.56
4:D:2474:FMN:C1'	4:D:2474:FMN:O4'	2.10	0.56
1:F:1388:THR:HG23	1:F:1388:THR:O	2.06	0.56
1:D:739:PHE:C	1:D:740:PRO:O	2.43	0.56
2:G:410:PHE:C	2:G:413:PRO:HD2	2.26	0.56
2:K:410:PHE:C	2:K:413:PRO:HD2	2.26	0.56
1:E:1336:LEU:HB3	1:E:1355:VAL:HG13	1.88	0.56
1:C:5:PHE:O	1:C:365:GLY:N	2.34	0.56
1:F:1322:ILE:HG23	1:F:1323:ILE:HG23	1.88	0.56
1:E:672:GLN:HG3	1:E:693:MET:HE1	1.85	0.56
1:A:1226:GLY:C	1:E:896:PRO:CB	2.74	0.56
1:A:1425:LYS:CD	1:A:1447:TRP:CE2	2.86	0.56
2:J:321:ARG:O	2:J:351:GLU:HA	2.05	0.56
1:C:969:PRO:HD2	1:C:970:PRO:HD2	1.88	0.56
1:A:969:PRO:HD2	1:A:970:PRO:HD2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:555:PHE:CD1	1:C:555:PHE:C	2.78	0.56
2:G:89:ASN:OD1	2:G:164:GLU:HB3	2.05	0.56
1:E:732:ARG:HD2	1:F:94:GLU:OE1	2.06	0.56
2:I:322:ARG:HD3	2:I:349:ALA:C	2.26	0.56
2:K:416:LYS:HZ2	2:K:433:ASN:HB2	1.71	0.56
2:K:416:LYS:HE3	2:K:433:ASN:HB2	1.88	0.56
2:I:77:LEU:HD22	2:I:130:THR:OG1	2.04	0.56
2:G:321:ARG:O	2:G:351:GLU:HA	2.05	0.56
2:G:327:MET:HB2	2:G:346:TRP:HZ2	1.65	0.56
1:C:235:ASN:ND2	1:C:236:THR:N	2.38	0.56
2:G:250:ALA:HB1	2:G:251:PRO:CD	2.33	0.56
2:H:64:ASN:ND2	2:H:67:ASP:HB2	2.20	0.56
2:G:417:VAL:HG11	2:G:421:GLY:HA2	1.85	0.56
1:B:513:SER:CB	1:B:520:MET:CE	2.79	0.56
1:D:515:ARG:NH2	1:D:966:ILE:HB	2.16	0.56
1:D:1093:GLY:O	1:D:1096:SER:N	2.39	0.56
1:B:570:ASP:OD1	1:B:572:THR:N	2.38	0.56
1:C:15:ARG:HD2	1:C:200:PHE:O	2.05	0.56
1:E:15:ARG:HD2	1:E:200:PHE:O	2.06	0.56
1:A:409:HIS:O	1:A:413:LEU:HD23	2.06	0.56
1:F:1122:ASP:O	1:F:1126:GLN:HG3	2.05	0.56
1:E:894:PHE:CE2	1:E:924:GLN:HG3	2.40	0.56
1:E:728:ILE:HD12	1:E:1047:MET:HE1	1.86	0.56
2:L:277:VAL:HG12	2:L:279:ALA:H	1.68	0.56
1:F:739:PHE:C	1:F:740:PRO:O	2.43	0.56
1:D:1393:TYR:CD2	1:D:1424:LEU:HD12	2.40	0.56
1:B:1348:VAL:O	1:B:1348:VAL:CG1	2.53	0.56
1:B:211:TYR:O	1:B:212:SER:HB3	2.04	0.56
1:B:1159:ASN:C	1:B:1161:VAL:H	2.09	0.56
1:E:711:MET:O	1:E:713:ILE:N	2.39	0.56
1:D:1322:ILE:HG23	1:D:1323:ILE:HG23	1.88	0.56
1:D:209:GLN:HG3	1:D:210:ARG:N	2.20	0.56
2:L:110:ILE:HB	2:L:115:HIS:CE1	2.40	0.56
1:C:896:PRO:CB	1:E:1226:GLY:C	2.74	0.56
2:L:322:ARG:HD3	2:L:349:ALA:C	2.26	0.56
2:K:322:ARG:CD	2:K:326:ASN:HD21	2.19	0.56
1:C:291:ALA:HB3	1:C:292:PRO:CD	2.27	0.56
1:B:466:HIS:ND1	1:B:678:ARG:NH1	2.53	0.56
2:J:189:GLY:O	2:J:265:LEU:HD13	2.03	0.56
2:K:122:SER:HA	2:K:125:LYS:CE	2.36	0.56
2:J:186:LEU:HD23	2:J:195:LEU:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:174:HIS:ND1	2:L:213:ILE:HG22	2.21	0.56
2:L:90:PHE:HB3	2:L:93:ILE:HG22	1.86	0.56
2:H:138:LYS:HE3	2:H:164:GLU:OE2	2.04	0.56
1:F:913:GLY:HA2	1:F:1349:ARG:CD	2.27	0.56
1:A:235:ASN:ND2	1:A:236:THR:N	2.38	0.56
1:A:838:VAL:HG12	1:A:839:PRO:CD	2.32	0.56
1:F:1052:VAL:O	1:F:1053:HIS:C	2.38	0.56
2:J:358:VAL:HG13	2:J:365:VAL:HG13	1.87	0.56
1:A:102:TYR:CE2	1:A:144:PHE:CD1	2.93	0.56
1:A:1010:ALA:HB2	1:A:1052:VAL:HG22	1.88	0.56
2:K:305:VAL:HG22	2:K:316:VAL:HG11	1.88	0.56
1:D:918:THR:HG23	1:D:1256:MET:CE	2.36	0.56
1:F:1093:GLY:O	1:F:1096:SER:N	2.39	0.56
1:D:37:ASP:OD1	1:D:38:GLY:N	2.38	0.56
1:B:37:ASP:OD1	1:B:38:GLY:N	2.38	0.56
1:B:823:MET:O	1:B:824:GLN:NE2	2.37	0.56
2:H:410:PHE:C	2:H:413:PRO:HD2	2.26	0.56
1:A:1054:GLN:O	1:A:1057:THR:N	2.39	0.56
1:E:466:HIS:ND1	1:E:678:ARG:NH1	2.46	0.56
1:F:148:LEU:HD22	1:F:172:LEU:HG	1.87	0.56
1:B:1291:ASP:OD1	1:B:1291:ASP:C	2.42	0.56
1:A:547:SER:C	1:A:549:VAL:N	2.58	0.56
1:A:1288:VAL:HG12	1:A:1288:VAL:O	2.05	0.56
1:A:1163:GLY:O	1:A:1165:THR:N	2.39	0.56
2:L:322:ARG:CD	2:L:326:ASN:HD21	2.19	0.56
2:K:321:ARG:HB2	2:K:351:GLU:CB	2.35	0.56
1:E:1438:ARG:HG3	2:K:376:GLY:HA2	0.58	0.56
1:E:246:ALA:O	1:E:247:HIS:C	2.42	0.56
1:D:449:ARG:HD3	1:D:765:ALA:O	2.06	0.56
2:G:416:LYS:HZ2	2:G:433:ASN:HB2	1.71	0.56
1:A:57:ASP:O	1:A:58:HIS:C	2.41	0.56
1:E:1113:CYS:HG	6:E:2476:F3S:FE3	1.23	0.56
2:I:317:LYS:HE3	2:I:345:ILE:CD1	2.36	0.56
2:K:174:HIS:ND1	2:K:213:ILE:HG22	2.21	0.56
2:K:186:LEU:HD23	2:K:195:LEU:HD11	1.88	0.56
2:I:264:TYR:O	2:I:267:THR:HG23	2.06	0.56
1:B:913:GLY:HA2	1:B:1349:ARG:CD	2.27	0.56
2:G:317:LYS:HE3	2:G:345:ILE:CD1	2.36	0.56
1:C:240:ASN:HB3	1:C:327:TRP:CZ2	2.41	0.56
2:L:416:LYS:HE3	2:L:433:ASN:HB2	1.88	0.56
2:L:181:ARG:O	2:L:182:MET:HE3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:122:SER:HA	2:H:125:LYS:CE	2.36	0.56
1:B:1222:LEU:H	1:B:1229:MET:HE2	1.71	0.56
1:F:295:LYS:HE2	1:F:299:VAL:CG1	2.35	0.56
1:D:1075:THR:HG23	1:D:1145:GLU:OE2	2.06	0.56
2:H:418:THR:CB	2:H:424:LEU:HD11	2.23	0.56
1:D:1045:TRP:O	1:D:1046:GLU:C	2.44	0.56
1:A:392:ALA:O	1:A:400:LEU:CD1	2.53	0.56
1:E:828:LEU:HD23	1:E:1172:SER:HB2	1.85	0.56
1:E:5:PHE:O	1:E:365:GLY:N	2.34	0.56
1:A:1305:ILE:O	1:A:1336:LEU:HD12	2.06	0.56
1:A:1221:PRO:HG2	1:A:1229:MET:HE1	1.87	0.56
1:B:875:MET:HE1	1:B:1139:PHE:CD2	2.40	0.56
1:B:902:ASN:CG	1:F:1227:GLU:OE2	2.42	0.56
1:A:551:THR:HG23	1:A:554:GLU:OE2	2.05	0.56
2:G:127:ILE:HG23	2:G:128:ASN:H	1.70	0.56
2:G:416:LYS:HE3	2:G:433:ASN:HB2	1.88	0.56
2:G:434:MET:HB2	2:G:437:VAL:HG11	1.87	0.56
2:K:264:TYR:O	2:K:267:THR:HG23	2.06	0.56
2:I:432:THR:HG22	2:I:434:MET:N	2.15	0.56
1:E:140:SER:O	1:E:141:ASP:C	2.44	0.56
1:D:513:SER:CB	1:D:520:MET:HE1	2.24	0.56
1:D:521:SER:C	1:D:522:LEU:HD23	2.26	0.56
2:J:358:VAL:HG11	2:J:366:ARG:HB2	1.88	0.56
1:D:857:GLY:HA2	1:D:883:ASP:O	2.05	0.56
1:D:570:ASP:OD1	1:D:572:THR:N	2.39	0.56
1:B:693:MET:O	1:B:694:ALA:C	2.45	0.56
1:F:80:ARG:HD3	1:F:125:ARG:O	2.05	0.56
1:C:419:TRP:O	1:C:422:ASN:HB2	2.04	0.56
1:F:52:GLN:NE2	1:F:71:LEU:HB2	2.17	0.56
1:D:466:HIS:ND1	1:D:678:ARG:NH1	2.53	0.56
1:E:1131:THR:CG2	1:E:1133:GLU:OE1	2.54	0.56
2:L:477:ALA:C	2:L:478:VAL:HG22	2.27	0.56
1:A:621:ILE:HG12	1:A:657:VAL:CG1	2.36	0.56
1:E:677:GLU:C	1:E:677:GLU:OE1	2.44	0.56
1:A:1221:PRO:CD	1:A:1229:MET:HE1	2.36	0.56
1:F:783:LYS:NZ	2:I:57:VAL:HG12	2.20	0.56
1:D:782:ARG:NH2	2:H:51:GLY:HA2	0.72	0.56
1:A:293:MET:HG2	1:A:410:LEU:CD2	2.35	0.56
1:A:555:PHE:C	1:A:555:PHE:CD1	2.78	0.56
2:G:207:LEU:HD12	2:G:207:LEU:C	2.24	0.56
2:G:440:ALA:HB1	2:G:456:ASP:HB2	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:350:PRO:HD3	2:H:374:ALA:HB2	1.88	0.56
1:B:913:GLY:CA	1:B:1349:ARG:HD3	2.27	0.56
2:L:225:SER:HB3	2:L:227:PRO:CD	2.23	0.56
2:L:449:LEU:HD11	2:L:451:VAL:CG1	2.31	0.56
2:H:174:HIS:ND1	2:H:213:ILE:HG22	2.21	0.56
1:F:913:GLY:CA	1:F:1349:ARG:HD3	2.27	0.56
1:B:521:SER:C	1:B:522:LEU:HD23	2.26	0.56
1:A:236:THR:HG23	1:A:240:ASN:ND2	2.19	0.56
2:L:360:THR:HG22	2:L:365:VAL:HG11	1.88	0.56
2:I:358:VAL:HG11	2:I:366:ARG:HB2	1.88	0.56
1:C:1053:HIS:CE1	1:C:1062:ARG:HH11	2.24	0.56
2:H:305:VAL:HG22	2:H:316:VAL:HG11	1.88	0.56
1:B:918:THR:O	1:B:919:ALA:C	2.42	0.56
1:C:386:GLY:H	1:C:389:GLU:HG3	1.71	0.56
1:A:18:VAL:O	1:A:19:GLU:C	2.42	0.56
1:A:51:PRO:HG3	1:A:200:PHE:CE2	2.41	0.56
2:L:410:PHE:C	2:L:413:PRO:HD2	2.26	0.56
1:F:209:GLN:HG3	1:F:210:ARG:N	2.20	0.56
1:C:61:VAL:O	1:C:61:VAL:CG1	2.51	0.56
1:B:1322:ILE:HG23	1:B:1323:ILE:HG23	1.88	0.56
1:B:1055:VAL:O	1:B:1056:LEU:C	2.41	0.56
1:E:442:MET:HG2	1:E:446:GLU:HG2	1.88	0.56
1:C:1230:GLN:O	1:C:1231:LEU:HD23	2.06	0.56
1:C:780:ARG:NH1	2:K:50:CYS:CB	2.56	0.56
1:A:1230:GLN:O	1:A:1231:LEU:HD23	2.06	0.56
1:E:706:LYS:O	1:E:707:ILE:C	2.43	0.56
1:A:251:MET:HE3	1:A:533:LEU:HD11	1.86	0.56
1:F:466:HIS:ND1	1:F:678:ARG:NH1	2.53	0.56
1:B:449:ARG:HD3	1:B:765:ALA:O	2.06	0.56
2:K:250:ALA:HB1	2:K:251:PRO:CD	2.33	0.56
1:C:913:GLY:O	1:C:915:PHE:N	2.35	0.56
2:K:96:ARG:HH21	2:K:199:VAL:CG2	2.19	0.56
2:K:225:SER:HB3	2:K:227:PRO:CD	2.23	0.56
2:K:238:VAL:HG23	2:K:439:ALA:HB2	1.87	0.56
2:I:99:PRO:CD	2:I:449:LEU:HD13	2.36	0.56
2:J:416:LYS:HE3	2:J:433:ASN:HB2	1.88	0.56
2:L:264:TYR:O	2:L:267:THR:HG23	2.06	0.56
2:G:358:VAL:HG11	2:G:366:ARG:HB2	1.88	0.56
1:F:1075:THR:HG23	1:F:1145:GLU:OE2	2.06	0.56
1:C:409:HIS:O	1:C:413:LEU:HD23	2.06	0.56
1:C:313:HIS:H	1:C:313:HIS:CD2	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:171:SER:OG	1:A:177:ILE:HA	2.06	0.56
1:A:894:PHE:CE2	1:A:924:GLN:HG3	2.40	0.56
1:A:37:ASP:OD2	1:A:40:THR:HB	2.06	0.56
1:B:348:ASN:HB2	1:B:350:LEU:HG	1.88	0.56
1:D:797:THR:HG21	1:D:812:LYS:HG2	1.86	0.56
2:K:45:ASN:HD21	2:K:45:ASN:N	2.04	0.56
2:L:45:ASN:HD21	2:L:45:ASN:N	2.04	0.56
1:F:162:GLU:HB3	1:F:164:ILE:HD12	1.88	0.56
1:C:902:ASN:CB	1:E:1227:GLU:OE2	2.53	0.55
1:F:782:ARG:HH21	2:I:51:GLY:HA3	0.69	0.55
1:A:706:LYS:O	1:A:707:ILE:C	2.43	0.55
1:E:1450:GLU:OE1	1:E:1453:LYS:NZ	2.24	0.55
2:K:321:ARG:O	2:K:351:GLU:HA	2.05	0.55
2:G:186:LEU:HD23	2:G:195:LEU:HD11	1.88	0.55
2:I:302:MET:HE1	2:I:334:VAL:N	2.21	0.55
2:I:350:PRO:CG	2:I:380:PRO:HA	2.36	0.55
2:H:322:ARG:CD	2:H:326:ASN:HD21	2.19	0.55
1:E:1212:ASP:CG	1:E:1243:GLY:H	2.08	0.55
2:I:416:LYS:HE3	2:I:433:ASN:HB2	1.88	0.55
2:I:90:PHE:HB3	2:I:93:ILE:HG22	1.86	0.55
1:A:1212:ASP:OD2	1:A:1243:GLY:C	2.44	0.55
2:H:450:VAL:O	2:H:454:ILE:HG22	2.06	0.55
2:H:89:ASN:OD1	2:H:164:GLU:HB3	2.05	0.55
1:D:295:LYS:CB	1:D:390:MET:HE1	2.36	0.55
2:J:360:THR:HG22	2:J:365:VAL:HG11	1.88	0.55
2:H:360:THR:HG22	2:H:365:VAL:HG11	1.88	0.55
1:A:1053:HIS:CE1	1:A:1062:ARG:HH11	2.24	0.55
1:F:918:THR:HG23	1:F:1256:MET:CE	2.36	0.55
1:C:51:PRO:HG3	1:C:200:PHE:CE2	2.41	0.55
1:E:409:HIS:O	1:E:413:LEU:HD23	2.06	0.55
1:A:15:ARG:HD2	1:A:200:PHE:O	2.05	0.55
1:A:828:LEU:HD23	1:A:1172:SER:HB2	1.85	0.55
1:D:3:VAL:CG2	1:D:231:ASN:HB2	2.36	0.55
2:I:410:PHE:C	2:I:413:PRO:HD2	2.26	0.55
1:B:1468:VAL:HG12	1:B:1468:VAL:O	2.07	0.55
1:D:116:ILE:HD13	1:D:190:THR:HG22	1.88	0.55
1:C:155:ILE:O	1:C:159:VAL:HG23	2.07	0.55
1:E:1163:GLY:O	1:E:1165:THR:N	2.39	0.55
1:C:813:TYR:O	1:C:816:GLN:HB2	2.06	0.55
1:C:1288:VAL:HG12	1:C:1288:VAL:O	2.05	0.55
1:D:1068:ARG:NE	1:D:1089:GLU:OE1	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:875:MET:HE1	1:B:1139:PHE:CE2	2.42	0.55
2:J:317:LYS:HE3	2:J:345:ILE:CD1	2.36	0.55
1:C:1438:ARG:HG3	2:J:376:GLY:HA2	0.58	0.55
1:B:777:GLY:O	1:B:788:HIS:CE1	2.51	0.55
1:F:449:ARG:HD3	1:F:765:ALA:O	2.06	0.55
1:B:466:HIS:HB3	1:B:467:PRO:HD3	1.87	0.55
2:J:238:VAL:HG23	2:J:439:ALA:HB2	1.87	0.55
2:I:250:ALA:CB	2:I:251:PRO:HD2	2.35	0.55
1:C:1212:ASP:OD2	1:C:1243:GLY:C	2.44	0.55
1:F:521:SER:C	1:F:522:LEU:HD23	2.26	0.55
2:H:416:LYS:HE3	2:H:433:ASN:HB2	1.88	0.55
1:E:240:ASN:HB3	1:E:327:TRP:CZ2	2.41	0.55
1:F:515:ARG:CZ	1:F:1367:TYR:HE1	2.20	0.55
2:L:358:VAL:HG13	2:L:365:VAL:HG13	1.87	0.55
1:B:918:THR:HG23	1:B:1256:MET:CE	2.36	0.55
1:D:1093:GLY:O	1:D:1094:THR:C	2.45	0.55
1:F:570:ASP:OD1	1:F:572:THR:N	2.38	0.55
1:C:728:ILE:HD12	1:C:1047:MET:HE1	1.85	0.55
1:C:1289:MET:HE2	1:C:1289:MET:H	1.72	0.55
1:F:3:VAL:CG2	1:F:231:ASN:HB2	2.36	0.55
2:J:477:ALA:C	2:J:478:VAL:HG22	2.27	0.55
1:E:35:ASP:HB3	1:E:37:ASP:H	1.71	0.55
1:E:37:ASP:OD2	1:E:40:THR:HB	2.06	0.55
1:F:499:PHE:CE1	1:F:742:MET:HE1	2.40	0.55
1:E:1054:GLN:O	1:E:1057:THR:N	2.39	0.55
1:E:621:ILE:HG12	1:E:657:VAL:CG1	2.36	0.55
1:C:711:MET:O	1:C:713:ILE:N	2.39	0.55
1:A:857:GLY:HA2	1:A:883:ASP:O	2.05	0.55
1:A:711:MET:O	1:A:713:ILE:N	2.39	0.55
1:B:1068:ARG:NE	1:B:1089:GLU:OE1	2.38	0.55
1:A:901:ASP:OD1	1:C:1228:LYS:HD3	2.06	0.55
1:A:1263:HIS:CE1	1:E:900:GLY:HA2	2.31	0.55
1:B:1450:GLU:OE1	1:B:1453:LYS:NZ	2.23	0.55
1:E:1222:LEU:HD12	1:E:1222:LEU:O	2.07	0.55
1:E:1230:GLN:O	1:E:1231:LEU:HD23	2.06	0.55
1:A:1401:LEU:C	1:A:1401:LEU:CD1	2.73	0.55
2:L:317:LYS:HZ2	2:L:345:ILE:HG21	1.72	0.55
2:L:350:PRO:HD3	2:L:374:ALA:HB2	1.88	0.55
1:A:937:LYS:HE3	1:A:1033:SER:CB	2.34	0.55
1:B:783:LYS:NZ	2:G:57:VAL:HG12	2.20	0.55
1:E:1394:VAL:CG1	1:E:1394:VAL:O	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:317:LYS:HE3	2:K:345:ILE:CD1	2.36	0.55
2:K:350:PRO:HD3	2:K:374:ALA:HB2	1.88	0.55
1:A:246:ALA:O	1:A:247:HIS:C	2.42	0.55
2:H:264:TYR:O	2:H:267:THR:HG23	2.06	0.55
2:G:238:VAL:HG23	2:G:439:ALA:HB2	1.87	0.55
2:G:90:PHE:HB3	2:G:93:ILE:HG22	1.86	0.55
2:I:322:ARG:CD	2:I:326:ASN:HD21	2.19	0.55
2:H:321:ARG:O	2:H:351:GLU:HA	2.05	0.55
2:I:434:MET:HB2	2:I:437:VAL:HG11	1.87	0.55
2:I:450:VAL:O	2:I:454:ILE:HG22	2.07	0.55
2:J:174:HIS:HE1	2:J:215:HIS:HB3	1.72	0.55
2:J:450:VAL:O	2:J:454:ILE:HG22	2.07	0.55
2:I:250:ALA:HB1	2:I:251:PRO:CD	2.33	0.55
1:F:235:ASN:HB3	1:F:508:ASN:ND2	2.22	0.55
1:E:1010:ALA:HB2	1:E:1052:VAL:HG22	1.88	0.55
1:E:1053:HIS:CE1	1:E:1062:ARG:HH11	2.24	0.55
1:F:828:LEU:HD22	1:F:1172:SER:CA	2.31	0.55
1:B:857:GLY:HA2	1:B:883:ASP:O	2.05	0.55
1:E:193:PRO:O	1:E:194:ASP:C	2.43	0.55
1:B:52:GLN:NE2	1:B:71:LEU:HB2	2.17	0.55
1:D:985:TYR:CD1	1:D:1207:VAL:HG11	2.42	0.55
1:C:573:PHE:HB2	1:C:574:PRO:CD	2.36	0.55
1:B:239:GLY:O	1:B:243:TRP:CD1	2.59	0.55
1:B:1177:HIS:CD2	1:B:1177:HIS:H	2.25	0.55
1:B:116:ILE:HD13	1:B:190:THR:HG22	1.88	0.55
2:G:45:ASN:HD21	2:G:45:ASN:N	2.04	0.55
1:A:813:TYR:O	1:A:816:GLN:HB2	2.06	0.55
1:A:1400:SER:O	1:A:1401:LEU:C	2.44	0.55
2:L:317:LYS:HE3	2:L:345:ILE:CD1	2.36	0.55
1:E:629:THR:O	1:E:632:ILE:N	2.39	0.55
2:J:32:TYR:HE2	2:J:194:LYS:CB	2.20	0.55
2:J:99:PRO:CD	2:J:449:LEU:HD13	2.36	0.55
2:L:207:LEU:HD12	2:L:207:LEU:C	2.24	0.55
1:F:710:LYS:HG2	1:F:939:GLY:CA	2.18	0.55
1:B:515:ARG:CZ	1:B:1367:TYR:HE1	2.20	0.55
1:D:515:ARG:CZ	1:D:1367:TYR:HE1	2.20	0.55
1:B:235:ASN:HB3	1:B:508:ASN:ND2	2.22	0.55
2:G:360:THR:HG22	2:G:365:VAL:HG11	1.88	0.55
4:F:2474:FMN:H9	4:F:2474:FMN:O4'	2.05	0.55
1:B:1093:GLY:O	1:B:1096:SER:N	2.39	0.55
1:A:386:GLY:H	1:A:389:GLU:HG3	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:80:ARG:HD3	1:B:125:ARG:O	2.05	0.55
1:C:193:PRO:O	1:C:194:ASP:C	2.43	0.55
1:E:51:PRO:HG3	1:E:200:PHE:CE2	2.41	0.55
1:A:787:ARG:HH12	1:A:821:PRO:CB	2.17	0.55
1:A:177:ILE:CD1	1:A:179:TYR:HE1	2.17	0.55
2:I:477:ALA:C	2:I:478:VAL:HG22	2.27	0.55
1:C:621:ILE:HG12	1:C:657:VAL:CG1	2.36	0.55
1:D:1468:VAL:HG12	1:D:1468:VAL:O	2.07	0.55
1:A:1336:LEU:HB3	1:A:1355:VAL:HG13	1.88	0.55
1:F:348:ASN:HB2	1:F:350:LEU:HG	1.89	0.55
1:B:481:ASP:OD1	1:B:481:ASP:C	2.44	0.55
1:B:571:ALA:HB2	1:B:606:LEU:CD2	2.37	0.55
1:E:1026:ASN:CG	1:E:1027:SER:N	2.60	0.55
1:E:670:LEU:O	1:E:670:LEU:CD2	2.53	0.55
1:C:1222:LEU:HD12	1:C:1222:LEU:O	2.07	0.55
1:A:1228:LYS:HD3	1:E:901:ASP:OD1	2.06	0.55
1:B:746:ILE:CG2	1:B:1182:ASP:HB3	2.22	0.55
1:E:149:TYR:O	1:E:150:ILE:C	2.42	0.55
2:G:305:VAL:HG22	2:G:316:VAL:HG11	1.88	0.55
2:G:96:ARG:HH21	2:G:199:VAL:CG2	2.19	0.55
1:E:1212:ASP:OD2	1:E:1243:GLY:C	2.44	0.55
2:I:238:VAL:HG23	2:I:439:ALA:HB2	1.87	0.55
2:L:415:LEU:CG	2:L:432:THR:HG23	2.34	0.55
2:L:99:PRO:CD	2:L:449:LEU:HD13	2.37	0.55
1:D:295:LYS:CE	1:D:299:VAL:HG12	2.37	0.55
2:H:358:VAL:HG11	2:H:366:ARG:HB2	1.88	0.55
1:E:386:GLY:H	1:E:389:GLU:HG3	1.71	0.55
1:F:1393:TYR:CD2	1:F:1424:LEU:HD12	2.40	0.55
1:B:1326:THR:HG22	1:B:1329:TYR:HB2	1.88	0.55
1:F:1159:ASN:C	1:F:1161:VAL:H	2.09	0.55
1:F:60:LYS:O	1:F:63:GLY:N	2.38	0.55
1:B:1368:MET:HB3	1:B:1387:MET:HG3	1.86	0.55
1:A:677:GLU:C	1:A:677:GLU:OE1	2.44	0.55
1:A:494:GLY:O	1:A:495:LEU:C	2.42	0.55
1:A:876:ASN:HB3	1:C:1227:GLU:OE1	2.03	0.55
1:C:442:MET:HG2	1:C:446:GLU:HG2	1.89	0.55
1:C:452:GLN:NE2	1:C:764:THR:HG21	2.21	0.55
1:B:1424:LEU:HD21	1:B:1428:ILE:HD11	1.89	0.55
1:C:901:ASP:OD1	1:E:1228:LYS:HD3	2.06	0.55
1:A:1356:VAL:HG11	1:A:1431:HIS:CB	2.37	0.55
1:A:1394:VAL:O	1:A:1394:VAL:CG1	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:664:THR:HA	1:A:720:ARG:NE	2.22	0.55
1:B:675:ILE:O	1:B:678:ARG:HB2	2.07	0.55
2:G:458:ARG:HB3	2:G:458:ARG:CZ	2.37	0.55
1:A:732:ARG:HD2	1:B:94:GLU:OE1	2.05	0.55
1:C:140:SER:O	1:C:141:ASP:C	2.44	0.55
2:L:127:ILE:HG23	2:L:128:ASN:H	1.70	0.55
2:L:434:MET:HB2	2:L:437:VAL:HG11	1.87	0.55
2:H:195:LEU:HD12	2:H:195:LEU:C	2.27	0.55
2:H:477:ALA:C	2:H:478:VAL:HG22	2.27	0.55
1:C:961:PRO:O	1:C:963:VAL:N	2.39	0.55
2:K:358:VAL:HG13	2:K:365:VAL:HG13	1.87	0.55
1:F:1318:ASN:ND2	1:F:1318:ASN:H	2.01	0.55
1:C:1387:MET:O	1:C:1387:MET:CG	2.41	0.55
2:G:246:ARG:HD3	2:G:399:LEU:CB	2.33	0.55
1:D:466:HIS:HB3	1:D:467:PRO:HD3	1.87	0.55
1:A:573:PHE:HB2	1:A:574:PRO:CD	2.36	0.55
1:E:1305:ILE:O	1:E:1336:LEU:HD12	2.06	0.55
1:C:1336:LEU:HB3	1:C:1355:VAL:HG13	1.88	0.55
1:B:1432:VAL:O	1:B:1433:THR:C	2.45	0.55
1:E:443:ASP:O	1:E:446:GLU:N	2.28	0.55
1:C:447:LEU:CD2	1:C:674:ALA:HA	2.30	0.55
1:C:1356:VAL:HG11	1:C:1431:HIS:CB	2.37	0.55
2:J:350:PRO:HD3	2:J:374:ALA:HB2	1.88	0.55
1:E:1438:ARG:O	1:E:1439:PHE:C	2.45	0.55
1:E:244:MET:O	1:E:245:LYS:C	2.44	0.55
2:G:32:TYR:HE2	2:G:194:LYS:CB	2.20	0.55
2:G:225:SER:HB3	2:G:227:PRO:CD	2.23	0.55
2:K:195:LEU:C	2:K:195:LEU:HD12	2.27	0.55
2:K:429:THR:CB	2:K:431:MET:HE2	2.37	0.55
2:H:401:PHE:O	2:H:402:GLU:HG3	2.07	0.55
2:I:122:SER:HA	2:I:125:LYS:CE	2.36	0.55
2:K:358:VAL:HG11	2:K:366:ARG:HB2	1.88	0.55
1:D:403:ASP:C	1:D:403:ASP:OD1	2.46	0.55
1:D:1424:LEU:HD21	1:D:1428:ILE:HD11	1.89	0.55
1:D:348:ASN:HB2	1:D:350:LEU:HG	1.88	0.55
2:H:45:ASN:N	2:H:45:ASN:HD21	2.04	0.55
1:F:47:HIS:CE1	1:F:176:SER:HB3	2.42	0.55
1:E:846:ILE:O	1:E:847:THR:C	2.45	0.55
1:A:1222:LEU:HD12	1:A:1222:LEU:O	2.07	0.55
1:A:1226:GLY:CA	1:E:896:PRO:HG2	2.26	0.55
1:C:899:ASN:OD1	1:E:1260:GLN:CD	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1438:ARG:O	1:A:1439:PHE:C	2.45	0.55
1:E:1449:ARG:CB	1:E:1449:ARG:NH1	2.14	0.55
2:J:350:PRO:CG	2:J:380:PRO:HA	2.36	0.55
1:E:937:LYS:HB2	1:E:940:GLU:HG3	1.89	0.55
1:A:938:PRO:O	1:A:940:GLU:N	2.40	0.55
1:E:1356:VAL:HG11	1:E:1431:HIS:CB	2.36	0.55
2:K:320:TYR:HE2	2:K:344:PHE:HD2	1.55	0.55
1:E:1438:ARG:CZ	2:K:376:GLY:O	2.55	0.55
1:A:251:MET:CE	1:A:533:LEU:HD11	2.37	0.55
2:G:127:ILE:HG23	2:G:128:ASN:N	2.22	0.55
2:G:450:VAL:O	2:G:454:ILE:HG22	2.07	0.55
2:J:401:PHE:O	2:J:402:GLU:HG3	2.07	0.55
2:I:320:TYR:HE2	2:I:344:PHE:HD2	1.55	0.55
2:H:322:ARG:HD3	2:H:349:ALA:C	2.26	0.55
2:I:195:LEU:C	2:I:195:LEU:HD12	2.27	0.55
2:I:430:LYS:CE	2:I:440:ALA:HB2	2.32	0.55
1:C:1212:ASP:OD1	1:C:1243:GLY:N	2.24	0.55
1:F:938:PRO:HG2	1:F:1041:ALA:HB1	1.88	0.55
2:H:186:LEU:HD23	2:H:195:LEU:HD11	1.88	0.55
2:H:162:ALA:HB3	2:H:237:LEU:HD12	1.89	0.55
2:H:238:VAL:HG23	2:H:439:ALA:HB2	1.87	0.55
2:H:449:LEU:HD11	2:H:451:VAL:CG1	2.31	0.55
1:B:1366:GLU:HG2	1:B:1367:TYR:CE2	2.41	0.55
1:A:240:ASN:HB3	1:A:327:TRP:CZ2	2.41	0.55
1:F:295:LYS:CE	1:F:299:VAL:HG12	2.37	0.55
1:B:310:PRO:CG	1:B:404:ARG:NH2	2.66	0.55
1:D:47:HIS:CE1	1:D:176:SER:HB3	2.42	0.55
2:J:305:VAL:HG22	2:J:316:VAL:HG11	1.88	0.55
1:B:985:TYR:CD1	1:B:1207:VAL:HG11	2.42	0.55
1:A:824:GLN:HA	1:A:824:GLN:HE21	1.65	0.55
1:D:621:ILE:HG13	1:D:658:LEU:CD1	2.37	0.55
2:G:477:ALA:C	2:G:478:VAL:HG22	2.27	0.55
1:C:1054:GLN:O	1:C:1057:THR:N	2.39	0.55
1:D:571:ALA:HB2	1:D:606:LEU:CD2	2.37	0.55
1:E:625:GLY:O	1:E:626:ALA:C	2.42	0.55
2:L:350:PRO:CG	2:L:380:PRO:HA	2.36	0.55
2:J:322:ARG:HD3	2:J:349:ALA:C	2.26	0.55
1:F:776:GLY:O	1:F:782:ARG:HD2	2.07	0.55
1:C:251:MET:CE	1:C:533:LEU:HD11	2.37	0.55
1:C:629:THR:O	1:C:632:ILE:N	2.39	0.55
1:D:731:SER:HB2	1:D:747:SER:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:744:SER:O	1:D:746:ILE:N	2.40	0.55
2:G:415:LEU:CG	2:G:432:THR:HG23	2.34	0.55
1:E:56:LYS:O	1:E:57:ASP:C	2.42	0.55
2:K:162:ALA:HB3	2:K:237:LEU:HD12	1.89	0.55
2:K:99:PRO:CD	2:K:449:LEU:HD13	2.36	0.55
2:H:320:TYR:HE2	2:H:344:PHE:HD2	1.55	0.55
2:H:317:LYS:HE3	2:H:345:ILE:CD1	2.36	0.55
2:J:195:LEU:C	2:J:195:LEU:HD12	2.27	0.55
2:G:350:PRO:CG	2:G:380:PRO:HA	2.36	0.55
2:L:127:ILE:HG23	2:L:128:ASN:N	2.22	0.55
2:H:127:ILE:HG23	2:H:128:ASN:N	2.22	0.55
2:H:207:LEU:HG	2:H:214:TYR:OH	2.07	0.55
2:G:358:VAL:HG13	2:G:365:VAL:HG13	1.87	0.55
1:A:565:THR:HG22	1:A:602:THR:HB	1.89	0.55
1:A:313:HIS:H	1:A:313:HIS:CD2	2.24	0.55
1:E:853:PHE:CE1	1:E:1079:ILE:HD13	2.42	0.55
1:A:711:MET:O	1:A:713:ILE:HG13	2.06	0.55
1:C:1305:ILE:O	1:C:1336:LEU:HD12	2.06	0.55
1:A:1026:ASN:CG	1:A:1027:SER:N	2.60	0.55
1:F:1396:ASP:OD1	1:F:1396:ASP:C	2.45	0.55
1:C:1026:ASN:CG	1:C:1027:SER:N	2.59	0.55
1:A:442:MET:HG2	1:A:446:GLU:HG2	1.88	0.55
1:C:1221:PRO:CB	1:C:1229:MET:CE	2.73	0.55
1:C:1222:LEU:H	1:C:1229:MET:CE	2.20	0.55
2:L:327:MET:HB2	2:L:346:TRP:HZ2	1.65	0.55
1:D:776:GLY:O	1:D:782:ARG:HD2	2.07	0.55
1:E:251:MET:HE3	1:E:533:LEU:HD11	1.89	0.55
1:A:556:ARG:O	1:A:557:ALA:C	2.44	0.55
1:D:676:ALA:O	1:D:677:GLU:C	2.45	0.55
2:G:469:LYS:NZ	2:G:476:VAL:HA	2.22	0.55
2:I:327:MET:HB2	2:I:346:TRP:HZ2	1.65	0.55
2:K:450:VAL:O	2:K:454:ILE:HG22	2.07	0.55
2:K:458:ARG:CZ	2:K:458:ARG:HB3	2.37	0.55
2:I:186:LEU:HD23	2:I:195:LEU:HD11	1.88	0.55
2:J:162:ALA:HB3	2:J:237:LEU:HD12	1.89	0.55
2:G:320:TYR:CE2	2:G:344:PHE:HD2	2.25	0.55
2:G:350:PRO:HD3	2:G:374:ALA:HB2	1.88	0.55
2:L:458:ARG:HB3	2:L:458:ARG:CZ	2.37	0.55
2:L:96:ARG:HH21	2:L:199:VAL:CG2	2.19	0.55
1:D:938:PRO:HG2	1:D:1041:ALA:HB1	1.88	0.55
1:A:236:THR:OG1	1:A:718:SER:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:828:LEU:HD22	1:B:1172:SER:CA	2.31	0.55
1:A:843:VAL:HG12	1:A:844:GLU:H	1.70	0.55
1:C:828:LEU:HD23	1:C:1172:SER:HB2	1.85	0.55
1:A:75:GLN:C	1:A:76:VAL:HG12	2.27	0.55
1:C:1131:THR:CG2	1:C:1133:GLU:OE1	2.54	0.55
2:J:410:PHE:C	2:J:413:PRO:HD2	2.26	0.55
1:B:47:HIS:CE1	1:B:176:SER:HB3	2.42	0.55
2:I:45:ASN:HD21	2:I:45:ASN:N	2.04	0.55
1:B:612:GLY:O	1:B:762:HIS:CE1	2.60	0.55
1:E:813:TYR:O	1:E:816:GLN:HB2	2.06	0.55
1:C:677:GLU:C	1:C:677:GLU:OE1	2.44	0.55
1:A:155:ILE:O	1:A:159:VAL:HG23	2.07	0.55
1:A:1375:ILE:O	1:A:1377:GLY:N	2.39	0.54
1:A:1376:LEU:CB	1:A:1439:PHE:HE1	2.19	0.54
2:L:320:TYR:HE2	2:L:344:PHE:HD2	1.55	0.54
2:J:320:TYR:HE2	2:J:344:PHE:HD2	1.55	0.54
2:K:321:ARG:HD3	2:K:322:ARG:CB	2.37	0.54
1:F:731:SER:HB2	1:F:747:SER:HB2	1.89	0.54
2:G:162:ALA:CB	2:G:237:LEU:HD12	2.37	0.54
1:E:746:ILE:O	1:E:747:SER:C	2.43	0.54
2:K:434:MET:HB2	2:K:437:VAL:HG11	1.87	0.54
2:K:469:LYS:NZ	2:K:476:VAL:HA	2.22	0.54
2:G:401:PHE:O	2:G:402:GLU:HG3	2.07	0.54
2:I:127:ILE:HG23	2:I:128:ASN:N	2.22	0.54
2:J:225:SER:HB3	2:J:227:PRO:CD	2.23	0.54
2:L:238:VAL:HG23	2:L:439:ALA:HB2	1.87	0.54
2:H:32:TYR:HE2	2:H:194:LYS:CB	2.20	0.54
1:D:310:PRO:CG	1:D:404:ARG:NH2	2.66	0.54
1:E:826:ARG:HG2	1:E:1046:GLU:OE2	2.07	0.54
1:C:826:ARG:HH11	1:C:826:ARG:CG	1.97	0.54
2:H:358:VAL:HG13	2:H:365:VAL:HG13	1.87	0.54
1:F:403:ASP:OD1	1:F:403:ASP:C	2.46	0.54
1:B:1008:THR:HG22	1:B:1009:ILE:H	1.70	0.54
1:E:950:THR:CG2	1:E:952:MET:H	2.15	0.54
1:E:319:TYR:O	1:E:322:SER:OG	2.17	0.54
1:C:171:SER:OG	1:C:177:ILE:HA	2.07	0.54
1:E:573:PHE:HB2	1:E:574:PRO:CD	2.36	0.54
1:D:223:GLN:HB3	1:D:224:PRO:CA	2.37	0.54
1:A:35:ASP:HB3	1:A:37:ASP:H	1.71	0.54
1:C:37:ASP:OD2	1:C:40:THR:HB	2.06	0.54
1:E:547:SER:C	1:E:549:VAL:N	2.58	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:612:GLY:O	1:F:762:HIS:CE1	2.60	0.54
1:C:22:ILE:O	1:C:23:GLU:C	2.45	0.54
1:E:155:ILE:O	1:E:159:VAL:HG23	2.07	0.54
1:E:22:ILE:O	1:E:23:GLU:C	2.45	0.54
1:C:846:ILE:O	1:C:847:THR:C	2.45	0.54
1:E:1221:PRO:CG	1:E:1229:MET:HE2	2.34	0.54
1:A:1435:THR:HG23	1:A:1437:SER:N	2.23	0.54
2:L:320:TYR:CE2	2:L:344:PHE:HD2	2.25	0.54
1:E:938:PRO:O	1:E:940:GLU:N	2.40	0.54
1:B:260:MET:O	1:B:263:LEU:CB	2.55	0.54
1:C:249:THR:OG1	1:C:635:ASN:HB3	2.08	0.54
1:C:266:VAL:O	1:C:279:THR:HG23	2.08	0.54
1:F:1077:ARG:O	1:F:1078:ASP:C	2.45	0.54
2:G:122:SER:HA	2:G:125:LYS:CE	2.36	0.54
1:A:746:ILE:O	1:A:747:SER:C	2.43	0.54
2:H:321:ARG:HD3	2:H:322:ARG:CB	2.37	0.54
2:G:320:TYR:HE2	2:G:344:PHE:HD2	1.55	0.54
1:C:236:THR:OG1	1:C:718:SER:HB3	2.07	0.54
2:L:186:LEU:HD23	2:L:195:LEU:HD11	1.88	0.54
2:L:401:PHE:O	2:L:402:GLU:HG3	2.07	0.54
1:E:236:THR:OG1	1:E:718:SER:HB3	2.07	0.54
1:D:1366:GLU:HG2	1:D:1367:TYR:CE2	2.41	0.54
2:H:418:THR:N	2:H:424:LEU:HD22	2.23	0.54
2:J:366:ARG:NE	2:J:391:GLN:HG2	2.14	0.54
1:B:1050:SER:O	1:B:1051:GLU:C	2.46	0.54
2:L:305:VAL:HG22	2:L:316:VAL:HG11	1.88	0.54
2:H:246:ARG:HD3	2:H:399:LEU:CB	2.33	0.54
1:A:973:ASP:OD2	1:A:1298:LYS:CE	2.54	0.54
1:E:1307:VAL:HG12	1:E:1322:ILE:HD13	1.89	0.54
1:C:75:GLN:C	1:C:76:VAL:HG12	2.27	0.54
1:D:666:VAL:HG12	1:D:667:ASN:N	2.19	0.54
1:A:853:PHE:CE1	1:A:1079:ILE:HD13	2.42	0.54
1:F:1326:THR:HG22	1:F:1329:TYR:HB2	1.88	0.54
1:C:1320:ASN:C	1:C:1341:GLN:HG3	2.28	0.54
1:A:61:VAL:HG12	1:A:61:VAL:O	2.07	0.54
1:D:720:ARG:C	1:D:722:GLY:H	2.11	0.54
1:F:61:VAL:HG12	1:F:61:VAL:O	2.08	0.54
1:B:953:ILE:HG22	1:B:954:ALA:N	2.22	0.54
1:E:468:MET:HG2	1:E:699:ALA:CB	2.38	0.54
1:E:499:PHE:HE2	1:E:742:MET:HE1	1.71	0.54
2:L:54:PHE:HB3	2:L:107:ASN:CB	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:110:ILE:HD11	2:K:117:ALA:C	2.28	0.54
1:A:1220:ARG:N	1:A:1221:PRO:CD	2.71	0.54
1:E:1222:LEU:H	1:E:1229:MET:CE	2.20	0.54
1:A:1438:ARG:CZ	2:L:376:GLY:O	2.55	0.54
1:C:1438:ARG:CZ	2:J:376:GLY:O	2.55	0.54
1:A:937:LYS:HB2	1:A:940:GLU:HG3	1.89	0.54
2:K:320:TYR:CE2	2:K:344:PHE:HD2	2.25	0.54
1:A:629:THR:O	1:A:632:ILE:N	2.39	0.54
1:A:249:THR:OG1	1:A:635:ASN:HB3	2.08	0.54
1:B:676:ALA:O	1:B:677:GLU:C	2.45	0.54
2:G:195:LEU:C	2:G:195:LEU:HD12	2.27	0.54
2:K:401:PHE:O	2:K:402:GLU:HG3	2.07	0.54
2:K:174:HIS:HE1	2:K:215:HIS:HB3	1.72	0.54
2:I:174:HIS:HE1	2:I:215:HIS:HB3	1.72	0.54
2:G:321:ARG:HD3	2:G:322:ARG:CB	2.37	0.54
2:L:162:ALA:CB	2:L:237:LEU:HD12	2.37	0.54
2:H:440:ALA:HB1	2:H:456:ASP:HB2	1.85	0.54
2:I:401:PHE:O	2:I:402:GLU:HG3	2.07	0.54
2:L:418:THR:HG1	2:L:420:TRP:HD1	1.53	0.54
1:C:345:MET:HE1	1:C:385:LEU:HB2	1.90	0.54
2:K:360:THR:HG22	2:K:365:VAL:HG11	1.88	0.54
2:K:366:ARG:NE	2:K:391:GLN:HG2	2.14	0.54
2:H:366:ARG:NE	2:H:391:GLN:HG2	2.14	0.54
2:I:305:VAL:HG22	2:I:316:VAL:HG11	1.88	0.54
1:D:387:PRO:CD	1:D:1344:GLU:OE2	2.47	0.54
1:E:565:THR:HG22	1:E:602:THR:HB	1.89	0.54
1:C:177:ILE:CD1	1:C:179:TYR:HE1	2.17	0.54
1:C:572:THR:HG23	1:C:615:ARG:HB3	1.90	0.54
1:C:1300:LEU:HD12	1:C:1301:SER:N	2.22	0.54
1:F:136:ASN:N	1:F:136:ASN:OD1	2.38	0.54
1:B:61:VAL:HG12	1:B:61:VAL:O	2.08	0.54
1:A:1222:LEU:H	1:A:1229:MET:CE	2.20	0.54
1:F:820:ARG:CB	1:F:821:PRO:HD2	2.37	0.54
1:D:820:ARG:CB	1:D:821:PRO:HD2	2.36	0.54
2:G:110:ILE:HD11	2:G:117:ALA:C	2.28	0.54
1:B:555:PHE:HD1	1:B:555:PHE:C	2.11	0.54
1:F:1131:THR:O	1:F:1134:LYS:N	2.41	0.54
1:F:743:VAL:CG1	1:F:745:ARG:HG3	2.38	0.54
2:I:415:LEU:CG	2:I:432:THR:HG23	2.34	0.54
2:J:127:ILE:HG23	2:J:128:ASN:N	2.22	0.54
2:J:207:LEU:HG	2:J:214:TYR:OH	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:434:MET:HB2	2:J:437:VAL:HG11	1.87	0.54
2:H:99:PRO:CD	2:H:449:LEU:HD13	2.37	0.54
2:K:418:THR:N	2:K:424:LEU:HD22	2.22	0.54
1:F:529:LEU:HB3	1:F:638:THR:OG1	2.08	0.54
1:A:1369:THR:C	1:A:1389:GLY:O	2.46	0.54
1:F:693:MET:O	1:F:694:ALA:C	2.45	0.54
1:D:857:GLY:O	4:D:2474:FMN:C10	2.56	0.54
1:B:1121:ASP:O	1:B:1125:ARG:HG3	2.08	0.54
1:D:824:GLN:CA	1:D:824:GLN:HE21	2.20	0.54
1:D:1121:ASP:O	1:D:1125:ARG:HG3	2.08	0.54
1:A:823:MET:C	1:A:824:GLN:HE21	2.10	0.54
1:F:1424:LEU:HD21	1:F:1428:ILE:HD11	1.89	0.54
1:A:846:ILE:O	1:A:847:THR:C	2.45	0.54
1:B:162:GLU:HB3	1:B:164:ILE:HD12	1.88	0.54
1:B:1045:TRP:O	1:B:1046:GLU:C	2.44	0.54
2:J:322:ARG:CD	2:J:326:ASN:HD21	2.19	0.54
2:I:54:PHE:HB3	2:I:107:ASN:CB	2.36	0.54
1:C:938:PRO:O	1:C:940:GLU:N	2.40	0.54
1:E:1376:LEU:CB	1:E:1439:PHE:HE1	2.19	0.54
1:C:149:TYR:O	1:C:150:ILE:C	2.42	0.54
1:B:253:HIS:CE1	1:B:254:PRO:CD	2.88	0.54
1:C:250:ARG:NE	1:C:639:PHE:CE1	2.72	0.54
1:E:251:MET:CE	1:E:533:LEU:HD11	2.37	0.54
1:E:515:ARG:CZ	1:E:1367:TYR:HE1	2.20	0.54
1:C:515:ARG:CZ	1:C:1367:TYR:HE1	2.20	0.54
2:K:127:ILE:HG23	2:K:128:ASN:N	2.22	0.54
2:K:207:LEU:HG	2:K:214:TYR:OH	2.07	0.54
1:B:1438:ARG:O	1:B:1439:PHE:C	2.45	0.54
2:I:32:TYR:HE2	2:I:194:LYS:CB	2.20	0.54
2:J:122:SER:HA	2:J:125:LYS:CE	2.36	0.54
2:L:174:HIS:HE1	2:L:215:HIS:HB3	1.72	0.54
2:L:207:LEU:HG	2:L:214:TYR:OH	2.07	0.54
2:H:96:ARG:HH21	2:H:199:VAL:CG2	2.19	0.54
2:H:458:ARG:HB3	2:H:458:ARG:CZ	2.37	0.54
2:I:418:THR:N	2:I:424:LEU:HD22	2.22	0.54
1:B:857:GLY:O	4:B:2474:FMN:C10	2.56	0.54
1:A:193:PRO:O	1:A:194:ASP:C	2.43	0.54
1:D:675:ILE:O	1:D:678:ARG:HB2	2.07	0.54
1:E:823:MET:C	1:E:824:GLN:HE21	2.10	0.54
1:E:171:SER:OG	1:E:177:ILE:HA	2.07	0.54
1:F:891:PRO:HA	1:F:894:PHE:CD2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1054:GLN:O	1:D:1057:THR:HB	2.08	0.54
1:C:35:ASP:HB3	1:C:37:ASP:H	1.71	0.54
1:A:1300:LEU:HD12	1:A:1301:SER:N	2.22	0.54
1:A:481:ASP:HB2	1:A:1038:ILE:O	2.08	0.54
1:F:571:ALA:HB2	1:F:606:LEU:CD2	2.37	0.54
1:C:468:MET:HG2	1:C:699:ALA:CB	2.38	0.54
1:A:1061:LEU:O	1:A:1064:ARG:HB2	2.08	0.54
1:A:22:ILE:O	1:A:23:GLU:C	2.45	0.54
1:D:897:ASP:C	1:D:897:ASP:OD1	2.46	0.54
1:A:443:ASP:O	1:A:446:GLU:N	2.28	0.54
1:A:670:LEU:CD2	1:A:670:LEU:O	2.53	0.54
2:J:110:ILE:HD11	2:J:117:ALA:C	2.28	0.54
1:B:1131:THR:O	1:B:1134:LYS:N	2.41	0.54
1:B:897:ASP:C	1:B:897:ASP:OD1	2.46	0.54
1:A:1438:ARG:HG3	2:L:376:GLY:HA2	0.58	0.54
1:C:1374:VAL:C	1:C:1375:ILE:HG13	2.28	0.54
1:F:1114:PRO:HG3	2:I:109:VAL:O	2.06	0.54
2:I:110:ILE:HG13	2:I:117:ALA:CA	2.35	0.54
2:H:110:ILE:HD11	2:H:117:ALA:C	2.28	0.54
2:K:350:PRO:CG	2:K:380:PRO:HA	2.36	0.54
1:C:251:MET:HE3	1:C:533:LEU:HD11	1.89	0.54
1:F:744:SER:O	1:F:746:ILE:N	2.40	0.54
1:E:556:ARG:O	1:E:557:ALA:C	2.44	0.54
1:A:515:ARG:CZ	1:A:1367:TYR:HE1	2.20	0.54
1:A:1111:ASN:OD1	1:A:1119:VAL:CG2	2.37	0.54
2:I:96:ARG:HH21	2:I:199:VAL:CG2	2.19	0.54
2:J:458:ARG:HB3	2:J:458:ARG:CZ	2.37	0.54
2:J:96:ARG:HH21	2:J:199:VAL:CG2	2.19	0.54
2:L:195:LEU:HD12	2:L:195:LEU:C	2.27	0.54
1:A:140:SER:O	1:A:141:ASP:C	2.44	0.54
2:H:174:HIS:HE1	2:H:215:HIS:HB3	1.72	0.54
2:H:97:ILE:HD11	2:H:450:VAL:CB	2.37	0.54
1:A:145:GLU:O	1:A:146:LEU:C	2.41	0.54
1:A:1387:MET:O	1:A:1387:MET:CG	2.41	0.54
1:D:249:THR:OG1	1:D:635:ASN:HB3	2.08	0.54
1:B:249:THR:OG1	1:B:635:ASN:HB3	2.08	0.54
1:C:643:ASN:ND2	1:C:665:THR:HB	2.23	0.54
1:A:230:HIS:CE1	1:A:234:ILE:HG13	2.35	0.54
1:F:985:TYR:CD1	1:F:1207:VAL:HG11	2.42	0.54
1:B:621:ILE:HG13	1:B:658:LEU:CD1	2.37	0.54
1:B:1054:GLN:O	1:B:1057:THR:HB	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1302:GLY:HA2	1:A:1334:GLY:N	2.23	0.54
1:F:1177:HIS:CD2	1:F:1177:HIS:H	2.25	0.54
1:B:720:ARG:C	1:B:722:GLY:H	2.11	0.54
1:E:1061:LEU:O	1:E:1064:ARG:HB2	2.08	0.54
1:D:612:GLY:O	1:D:762:HIS:CE1	2.60	0.54
1:A:804:ASN:O	1:A:805:ASP:HB3	2.08	0.54
1:D:953:ILE:HG22	1:D:954:ALA:N	2.22	0.54
1:A:447:LEU:CD2	1:A:674:ALA:HA	2.30	0.54
1:B:731:SER:HB2	1:B:747:SER:HB2	1.89	0.54
1:D:1114:PRO:HG3	2:H:109:VAL:O	2.07	0.54
1:B:1114:PRO:HG3	2:G:109:VAL:O	2.07	0.54
1:B:776:GLY:O	1:B:782:ARG:HD2	2.07	0.54
1:C:531:ASN:C	1:C:533:LEU:N	2.57	0.54
1:D:746:ILE:CG2	1:D:1182:ASP:HB3	2.22	0.54
1:F:675:ILE:O	1:F:678:ARG:HB2	2.07	0.54
2:G:181:ARG:HD2	2:G:181:ARG:C	2.28	0.54
2:I:469:LYS:NZ	2:I:476:VAL:HA	2.22	0.54
2:J:162:ALA:CB	2:J:237:LEU:HD12	2.37	0.54
1:B:938:PRO:HG2	1:B:1041:ALA:HB1	1.88	0.54
2:I:360:THR:HG22	2:I:365:VAL:HG11	1.88	0.54
1:D:826:ARG:CG	1:D:826:ARG:HH11	2.07	0.54
1:A:561:TYR:O	1:A:561:TYR:CD1	2.61	0.54
1:E:643:ASN:ND2	1:E:665:THR:HB	2.23	0.54
1:F:857:GLY:O	4:F:2474:FMN:C10	2.56	0.54
1:E:313:HIS:CD2	1:E:313:HIS:H	2.24	0.54
1:F:824:GLN:CA	1:F:824:GLN:HE21	2.20	0.54
1:D:1326:THR:HG22	1:D:1329:TYR:HB2	1.88	0.54
1:C:1302:GLY:HA2	1:C:1334:GLY:N	2.23	0.54
1:D:148:LEU:HD22	1:D:172:LEU:HG	1.87	0.54
1:F:116:ILE:HD13	1:F:190:THR:HG22	1.88	0.54
1:F:481:ASP:OD1	1:F:481:ASP:C	2.43	0.54
1:D:162:GLU:HB3	1:D:164:ILE:HD12	1.88	0.54
1:C:1093:GLY:O	1:C:1096:SER:N	2.41	0.54
1:D:1396:ASP:OD1	1:D:1396:ASP:C	2.45	0.54
1:F:62:ILE:O	1:F:62:ILE:HG22	2.08	0.54
1:F:897:ASP:C	1:F:897:ASP:OD1	2.45	0.54
1:A:1438:ARG:CB	2:L:376:GLY:HA2	2.13	0.54
1:E:1435:THR:HG23	1:E:1437:SER:N	2.23	0.54
2:G:99:PRO:CD	2:G:449:LEU:HD13	2.36	0.54
1:F:1401:LEU:O	1:F:1401:LEU:CD1	2.38	0.54
2:J:250:ALA:CB	2:J:251:PRO:HD2	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:477:ALA:C	2:K:478:VAL:HG22	2.27	0.54
2:H:350:PRO:CG	2:H:380:PRO:HA	2.36	0.54
2:I:97:ILE:HD11	2:I:450:VAL:CB	2.37	0.54
2:I:458:ARG:CZ	2:I:458:ARG:HB3	2.37	0.54
1:F:1442:GLU:OE2	2:G:375:THR:HA	2.08	0.54
2:L:450:VAL:O	2:L:454:ILE:HG22	2.06	0.54
2:H:429:THR:HG21	2:H:431:MET:HE2	1.88	0.54
1:B:295:LYS:CE	1:B:299:VAL:HG12	2.37	0.54
1:B:529:LEU:HB3	1:B:638:THR:OG1	2.08	0.54
1:D:235:ASN:HB3	1:D:508:ASN:ND2	2.22	0.54
1:B:1075:THR:HG23	1:B:1145:GLU:OE2	2.06	0.54
1:A:1316:GLU:O	1:A:1317:THR:C	2.45	0.54
1:B:403:ASP:C	1:B:403:ASP:OD1	2.46	0.54
1:C:1316:GLU:O	1:C:1317:THR:C	2.45	0.54
1:F:249:THR:OG1	1:F:635:ASN:HB3	2.08	0.54
1:D:891:PRO:HA	1:D:894:PHE:CD2	2.43	0.54
1:E:1302:GLY:HA2	1:E:1334:GLY:N	2.23	0.54
1:E:481:ASP:HB2	1:E:1038:ILE:O	2.08	0.54
1:A:1304:THR:HG23	1:A:1335:LYS:HB2	1.90	0.54
1:D:575:VAL:HG23	1:D:614:ALA:O	2.08	0.54
1:B:917:VAL:HG13	1:B:922:LEU:HD21	1.90	0.54
1:F:1470:VAL:CG1	1:F:1470:VAL:O	2.56	0.54
1:D:481:ASP:OD1	1:D:481:ASP:C	2.44	0.54
1:B:875:MET:HE2	1:B:1139:PHE:HE2	1.73	0.54
1:C:1376:LEU:CB	1:C:1439:PHE:HE1	2.19	0.54
2:I:110:ILE:HD11	2:I:117:ALA:C	2.28	0.54
1:E:664:THR:HA	1:E:720:ARG:NE	2.22	0.54
1:C:937:LYS:HB2	1:C:940:GLU:HG3	1.89	0.54
1:C:937:LYS:HE3	1:C:1033:SER:CB	2.34	0.54
1:F:447:LEU:HD11	1:F:451:GLN:NE2	2.23	0.54
2:G:162:ALA:HB3	2:G:237:LEU:HD12	1.89	0.54
1:A:67:PRO:HG3	1:A:105:TYR:OH	2.08	0.54
2:J:181:ARG:HD2	2:J:181:ARG:C	2.28	0.54
2:I:320:TYR:CE2	2:I:344:PHE:HD2	2.25	0.54
2:K:230:ARG:NH2	2:K:434:MET:HE1	2.23	0.54
2:K:97:ILE:HD11	2:K:450:VAL:CB	2.37	0.54
1:B:1442:GLU:OE2	2:H:375:THR:HA	2.08	0.54
2:H:320:TYR:CE2	2:H:344:PHE:HD2	2.25	0.54
2:H:181:ARG:C	2:H:181:ARG:HD2	2.28	0.54
2:I:153:ILE:HG21	2:I:238:VAL:HG12	1.90	0.54
2:I:162:ALA:CB	2:I:237:LEU:HD12	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:97:ILE:CG1	2:J:450:VAL:HG11	2.38	0.54
2:J:97:ILE:HD11	2:J:450:VAL:CB	2.37	0.54
2:L:32:TYR:HE2	2:L:194:LYS:CB	2.20	0.54
2:H:162:ALA:CB	2:H:237:LEU:HD12	2.37	0.54
1:E:345:MET:CG	1:E:346:ASP:N	2.55	0.54
1:F:1051:GLU:O	1:F:1052:VAL:C	2.46	0.54
1:C:1369:THR:C	1:C:1389:GLY:O	2.46	0.54
1:C:560:ASP:O	1:C:561:TYR:C	2.46	0.54
1:C:561:TYR:O	1:C:561:TYR:CD1	2.61	0.54
1:E:1077:ARG:O	1:E:1078:ASP:C	2.44	0.54
1:A:1077:ARG:O	1:A:1078:ASP:C	2.44	0.54
1:F:1093:GLY:O	1:F:1094:THR:C	2.45	0.54
1:C:565:THR:HG22	1:C:602:THR:HB	1.89	0.54
1:E:230:HIS:CE1	1:E:234:ILE:HG13	2.35	0.54
1:C:528:ASN:HB2	1:C:542:LEU:HD22	1.90	0.54
1:E:976:SER:O	1:E:979:ASP:HB2	2.08	0.54
1:B:891:PRO:HA	1:B:894:PHE:CD2	2.43	0.54
1:B:1396:ASP:C	1:B:1396:ASP:OD1	2.45	0.54
1:E:804:ASN:O	1:E:805:ASP:HB3	2.08	0.54
1:F:917:VAL:HG13	1:F:922:LEU:HD21	1.90	0.54
1:A:452:GLN:NE2	1:A:764:THR:HG21	2.21	0.54
1:B:1077:ARG:O	1:B:1078:ASP:C	2.45	0.54
2:L:317:LYS:NZ	2:L:345:ILE:HG21	2.23	0.54
1:C:1427:LEU:O	1:C:1430:GLU:N	2.41	0.54
1:C:1438:ARG:O	1:C:1439:PHE:C	2.45	0.54
2:J:317:LYS:NZ	2:J:345:ILE:HG21	2.23	0.54
1:C:664:THR:HA	1:C:720:ARG:NE	2.22	0.54
1:A:266:VAL:O	1:A:279:THR:HG23	2.08	0.54
1:D:743:VAL:CG1	1:D:745:ARG:HG3	2.38	0.54
1:D:746:ILE:HG12	1:D:1182:ASP:O	2.08	0.54
2:G:238:VAL:HG23	2:G:439:ALA:CA	2.38	0.54
2:K:32:TYR:HE2	2:K:194:LYS:CB	2.20	0.54
2:J:153:ILE:HG21	2:J:238:VAL:HG12	1.90	0.54
2:J:238:VAL:HG23	2:J:439:ALA:CA	2.38	0.54
1:F:1438:ARG:O	1:F:1439:PHE:C	2.45	0.54
2:G:317:LYS:CE	2:G:345:ILE:HG21	2.38	0.54
2:G:317:LYS:NZ	2:G:345:ILE:HG21	2.23	0.54
1:F:513:SER:CB	1:F:520:MET:CE	2.79	0.54
2:H:230:ARG:NH2	2:H:434:MET:HE1	2.23	0.54
2:K:418:THR:CB	2:K:424:LEU:HD11	2.23	0.54
1:D:1318:ASN:ND2	1:D:1318:ASN:H	2.01	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1131:THR:O	1:D:1134:LYS:N	2.41	0.54
1:E:1316:GLU:O	1:E:1317:THR:C	2.45	0.54
1:C:1307:VAL:HG12	1:C:1322:ILE:HD13	1.89	0.54
1:C:823:MET:C	1:C:824:GLN:HE21	2.10	0.54
1:F:621:ILE:HG13	1:F:658:LEU:CD1	2.38	0.54
1:E:302:ALA:HA	1:E:347:ARG:NH1	2.23	0.54
1:E:369:THR:HG22	1:E:1293:ASN:ND2	2.23	0.54
1:F:978:GLU:HG3	1:F:979:ASP:H	1.73	0.54
1:C:481:ASP:HB2	1:C:1038:ILE:O	2.08	0.54
1:C:481:ASP:C	1:C:481:ASP:OD1	2.44	0.54
1:C:1304:THR:HG23	1:C:1335:LYS:HB2	1.90	0.54
1:F:953:ILE:HG22	1:F:954:ALA:N	2.22	0.54
1:B:256:PHE:O	1:B:259:HIS:HB2	2.08	0.54
2:L:110:ILE:HD11	2:L:117:ALA:C	2.28	0.53
2:J:320:TYR:CE2	2:J:344:PHE:HD2	2.25	0.53
1:A:708:MET:O	1:A:710:LYS:N	2.41	0.53
1:A:244:MET:O	1:A:245:LYS:C	2.44	0.53
1:F:746:ILE:HG12	1:F:1182:ASP:O	2.08	0.53
1:E:67:PRO:HG3	1:E:105:TYR:OH	2.08	0.53
2:K:132:TRP:HA	2:K:202:ARG:CZ	2.39	0.53
2:K:145:GLU:OE2	2:K:171:TYR:HE1	1.91	0.53
2:K:186:LEU:HD21	2:K:195:LEU:HD11	1.91	0.53
2:I:97:ILE:CG1	2:I:450:VAL:HG11	2.38	0.53
2:H:97:ILE:CG1	2:H:450:VAL:HG11	2.38	0.53
2:H:94:CYS:HB3	2:H:98:CYS:SG	2.48	0.53
2:J:418:THR:N	2:J:424:LEU:HD22	2.23	0.53
2:J:418:THR:CB	2:J:424:LEU:HD11	2.23	0.53
1:E:1369:THR:C	1:E:1389:GLY:O	2.46	0.53
1:F:387:PRO:CD	1:F:1344:GLU:OE2	2.47	0.53
1:E:18:VAL:O	1:E:19:GLU:C	2.42	0.53
1:E:75:GLN:C	1:E:76:VAL:HG12	2.27	0.53
1:C:976:SER:O	1:C:979:ASP:HB2	2.08	0.53
1:B:978:GLU:HG3	1:B:979:ASP:H	1.73	0.53
1:E:1320:ASN:C	1:E:1341:GLN:HG3	2.28	0.53
1:D:1177:HIS:H	1:D:1177:HIS:CD2	2.25	0.53
1:C:61:VAL:O	1:C:61:VAL:HG12	2.07	0.53
1:F:1470:VAL:HG13	1:F:1470:VAL:O	2.08	0.53
1:F:575:VAL:HG23	1:F:614:ALA:O	2.08	0.53
1:C:269:VAL:HG23	1:C:270:GLY:N	2.22	0.53
1:D:256:PHE:O	1:D:259:HIS:HB2	2.08	0.53
1:F:1432:VAL:O	1:F:1433:THR:C	2.45	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:720:ARG:C	1:F:722:GLY:H	2.11	0.53
2:J:321:ARG:HD3	2:J:322:ARG:CB	2.37	0.53
2:J:322:ARG:HD2	2:J:349:ALA:CB	2.38	0.53
2:J:372:ALA:HB1	2:J:381:GLN:O	2.08	0.53
1:E:1400:SER:O	1:E:1403:LEU:N	2.27	0.53
2:K:327:MET:HB2	2:K:346:TRP:HZ2	1.65	0.53
1:A:631:LEU:HD13	1:A:636:LEU:HB3	1.90	0.53
1:B:443:ASP:O	1:B:445:ALA:N	2.41	0.53
2:G:174:HIS:HE1	2:G:215:HIS:HB3	1.72	0.53
2:G:132:TRP:HA	2:G:202:ARG:CZ	2.39	0.53
2:G:465:HIS:NE2	2:G:469:LYS:HE3	2.24	0.53
2:J:249:LYS:HE2	2:J:258:ILE:HD11	1.90	0.53
1:D:1438:ARG:O	1:D:1439:PHE:C	2.45	0.53
1:D:1438:ARG:CD	2:I:377:ARG:N	2.41	0.53
2:K:94:CYS:HB3	2:K:98:CYS:SG	2.49	0.53
2:H:372:ALA:HB1	2:H:381:GLN:O	2.08	0.53
2:H:244:LYS:HG3	2:H:402:GLU:O	2.09	0.53
2:J:469:LYS:NZ	2:J:476:VAL:HA	2.22	0.53
2:H:132:TRP:HA	2:H:202:ARG:CZ	2.39	0.53
2:H:238:VAL:HG23	2:H:439:ALA:CA	2.38	0.53
2:I:181:ARG:HD2	2:I:181:ARG:C	2.28	0.53
2:I:366:ARG:NE	2:I:391:GLN:HG2	2.14	0.53
1:C:1316:GLU:O	1:C:1318:ASN:N	2.42	0.53
1:E:561:TYR:O	1:E:561:TYR:CD1	2.61	0.53
1:D:838:VAL:HG13	1:D:839:PRO:CD	2.31	0.53
1:F:40:THR:CG2	1:F:40:THR:O	2.57	0.53
1:B:824:GLN:CA	1:B:824:GLN:HE21	2.20	0.53
1:C:853:PHE:CE1	1:C:1079:ILE:HD13	2.42	0.53
1:C:92:ILE:O	1:C:93:VAL:C	2.45	0.53
1:C:804:ASN:O	1:C:805:ASP:HB3	2.08	0.53
1:F:1233:TYR:O	1:F:1268:LEU:HA	2.09	0.53
1:C:518:ARG:NH2	1:C:1382:ASN:HD22	2.06	0.53
1:C:119:GLU:O	1:C:120:LYS:C	2.47	0.53
1:B:746:ILE:HG12	1:B:1182:ASP:O	2.08	0.53
1:B:744:SER:O	1:B:746:ILE:N	2.40	0.53
2:L:322:ARG:HG3	2:L:326:ASN:OD1	2.09	0.53
2:L:317:LYS:CE	2:L:345:ILE:HG21	2.38	0.53
1:E:149:TYR:HE1	1:E:282:GLU:OE1	1.91	0.53
1:C:1310:THR:O	1:C:1313:SER:N	2.33	0.53
2:G:473:GLU:HG2	2:G:473:GLU:O	2.08	0.53
2:I:317:LYS:NZ	2:I:345:ILE:HG21	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:415:LEU:CG	2:K:432:THR:HG23	2.34	0.53
1:B:1438:ARG:CZ	2:H:376:GLY:O	2.57	0.53
2:I:162:ALA:HB3	2:I:237:LEU:HD12	1.89	0.53
2:I:429:THR:HG21	2:I:431:MET:HE2	1.90	0.53
2:J:449:LEU:CD2	2:J:451:VAL:HG13	2.27	0.53
2:L:122:SER:HA	2:L:125:LYS:CE	2.36	0.53
2:L:132:TRP:HA	2:L:202:ARG:CZ	2.39	0.53
2:L:162:ALA:HB3	2:L:237:LEU:HD12	1.89	0.53
2:L:97:ILE:CG1	2:L:450:VAL:HG11	2.38	0.53
2:L:94:CYS:HB3	2:L:98:CYS:SG	2.48	0.53
2:H:153:ILE:HG21	2:H:238:VAL:HG12	1.90	0.53
2:J:243:TYR:CE1	2:J:405:ASP:HB3	2.43	0.53
2:I:243:TYR:CE1	2:I:405:ASP:HB3	2.43	0.53
1:A:1307:VAL:HG12	1:A:1322:ILE:HD13	1.89	0.53
1:F:1054:GLN:O	1:F:1057:THR:HB	2.08	0.53
1:E:1420:TYR:OH	1:E:1466:LEU:HD22	2.09	0.53
1:D:978:GLU:HG3	1:D:979:ASP:H	1.73	0.53
1:E:1300:LEU:HD12	1:E:1301:SER:N	2.22	0.53
1:F:256:PHE:O	1:F:259:HIS:HB2	2.08	0.53
1:B:575:VAL:HG23	1:B:614:ALA:O	2.08	0.53
1:B:743:VAL:CG1	1:B:745:ARG:HG3	2.38	0.53
1:E:1220:ARG:N	1:E:1221:PRO:CD	2.71	0.53
1:C:1435:THR:HG23	1:C:1437:SER:N	2.23	0.53
1:E:708:MET:O	1:E:710:LYS:N	2.41	0.53
1:A:149:TYR:HE1	1:A:282:GLU:OE1	1.91	0.53
1:E:1401:LEU:CD1	1:E:1401:LEU:C	2.73	0.53
1:D:555:PHE:CD1	1:D:556:ARG:N	2.77	0.53
1:A:250:ARG:O	1:A:531:ASN:ND2	2.42	0.53
1:C:631:LEU:HD13	1:C:636:LEU:HB3	1.90	0.53
2:I:295:LEU:CD1	2:I:319:LEU:HD13	2.39	0.53
2:K:440:ALA:HB1	2:K:456:ASP:HB2	1.85	0.53
2:K:473:GLU:O	2:K:473:GLU:HG2	2.09	0.53
2:J:132:TRP:HA	2:J:202:ARG:CZ	2.39	0.53
2:I:249:LYS:HE2	2:I:258:ILE:HD11	1.90	0.53
2:G:322:ARG:HG3	2:G:326:ASN:OD1	2.09	0.53
2:G:372:ALA:HB1	2:G:381:GLN:O	2.08	0.53
2:H:429:THR:CB	2:H:431:MET:HE2	2.39	0.53
2:H:449:LEU:CD2	2:H:451:VAL:HG13	2.27	0.53
2:H:469:LYS:HZ3	2:H:476:VAL:CA	2.22	0.53
2:H:243:TYR:CE1	2:H:405:ASP:HB3	2.43	0.53
1:D:1131:THR:CG2	1:D:1133:GLU:N	2.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:602:THR:O	1:F:640:THR:CG2	2.56	0.53
1:F:1121:ASP:O	1:F:1125:ARG:HG3	2.08	0.53
1:D:1388:THR:HG23	1:D:1388:THR:O	2.06	0.53
1:E:1290:GLY:O	1:E:1291:ASP:CB	2.53	0.53
1:A:1121:ASP:OD1	1:A:1122:ASP:N	2.42	0.53
1:E:1057:THR:HG22	1:E:1190:VAL:HG11	1.91	0.53
1:E:481:ASP:OD1	1:E:481:ASP:C	2.44	0.53
1:E:1304:THR:HG23	1:E:1335:LYS:HB2	1.89	0.53
1:B:60:LYS:O	1:B:63:GLY:N	2.38	0.53
1:D:61:VAL:O	1:D:61:VAL:HG12	2.08	0.53
1:F:182:MET:HE2	1:F:217:PRO:CB	1.93	0.53
1:A:902:ASN:CB	1:C:1227:GLU:OE2	2.53	0.53
1:A:1374:VAL:C	1:A:1375:ILE:HG13	2.28	0.53
2:L:372:ALA:HB1	2:L:381:GLN:O	2.08	0.53
1:E:496:HIS:O	1:E:653:HIS:CE1	2.61	0.53
1:A:522:LEU:CG	1:A:705:LEU:HD21	2.38	0.53
1:C:149:TYR:HE1	1:C:282:GLU:OE1	1.91	0.53
1:C:253:HIS:ND1	1:C:254:PRO:CG	2.71	0.53
1:C:250:ARG:O	1:C:531:ASN:ND2	2.42	0.53
1:E:249:THR:OG1	1:E:635:ASN:HB3	2.07	0.53
1:F:763:ALA:O	1:F:765:ALA:N	2.42	0.53
2:G:166:LEU:HD23	2:G:461:ALA:CB	2.36	0.53
2:G:145:GLU:OE2	2:G:171:TYR:HE1	1.91	0.53
2:G:97:ILE:CG1	2:G:450:VAL:HG11	2.38	0.53
1:C:105:TYR:H	1:C:105:TYR:HD1	1.57	0.53
1:A:105:TYR:HD1	1:A:105:TYR:H	1.57	0.53
1:E:105:TYR:H	1:E:105:TYR:HD1	1.57	0.53
2:I:322:ARG:HG3	2:I:326:ASN:OD1	2.09	0.53
2:K:97:ILE:CG1	2:K:450:VAL:HG11	2.38	0.53
2:H:317:LYS:NZ	2:H:345:ILE:HG21	2.23	0.53
2:I:132:TRP:HA	2:I:202:ARG:CZ	2.39	0.53
2:I:238:VAL:HG23	2:I:439:ALA:CA	2.38	0.53
2:L:469:LYS:NZ	2:L:476:VAL:HA	2.22	0.53
2:L:49:GLN:HE22	2:L:69:LEU:CG	2.22	0.53
2:H:465:HIS:NE2	2:H:469:LYS:HE3	2.24	0.53
2:H:469:LYS:NZ	2:H:476:VAL:HA	2.22	0.53
2:L:418:THR:N	2:L:424:LEU:HD22	2.23	0.53
1:C:826:ARG:HG2	1:C:1046:GLU:OE2	2.07	0.53
1:D:1077:ARG:O	1:D:1078:ASP:C	2.45	0.53
1:B:602:THR:O	1:B:640:THR:CG2	2.56	0.53
1:B:349:GLY:HA3	1:B:387:PRO:HG3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:526:LEU:CD1	1:D:526:LEU:N	2.64	0.53
2:K:246:ARG:HD3	2:K:399:LEU:CB	2.33	0.53
1:C:18:VAL:O	1:C:19:GLU:C	2.42	0.53
2:J:197:LYS:NZ	2:J:275:ASP:HB3	2.24	0.53
1:D:302:ALA:CA	1:D:347:ARG:NH1	2.72	0.53
1:E:973:ASP:OD2	1:E:1298:LYS:CE	2.54	0.53
1:C:317:ILE:CG2	1:C:321:ASN:HD21	2.19	0.53
1:C:571:ALA:HB2	1:C:606:LEU:CD2	2.39	0.53
1:A:572:THR:CG2	1:A:615:ARG:NE	2.72	0.53
1:A:1207:VAL:HG13	1:A:1208:PRO:CD	2.39	0.53
1:C:1121:ASP:OD1	1:C:1122:ASP:N	2.42	0.53
1:A:1420:TYR:OH	1:A:1466:LEU:HD22	2.09	0.53
1:C:1057:THR:HG22	1:C:1190:VAL:HG11	1.91	0.53
1:F:1468:VAL:O	1:F:1468:VAL:HG12	2.07	0.53
1:A:1320:ASN:C	1:A:1341:GLN:HG3	2.28	0.53
1:D:1233:TYR:O	1:D:1268:LEU:HA	2.09	0.53
1:E:518:ARG:NH2	1:E:1382:ASN:HD22	2.06	0.53
1:D:629:THR:O	1:D:632:ILE:N	2.42	0.53
1:C:587:ARG:O	1:C:590:ARG:HB2	2.09	0.53
1:A:1093:GLY:O	1:A:1096:SER:N	2.41	0.53
1:A:782:ARG:C	1:A:784:SER:H	2.12	0.53
1:C:1220:ARG:N	1:C:1221:PRO:CD	2.71	0.53
1:D:1229:MET:CA	1:F:877:ARG:CG	2.78	0.53
1:B:1047:MET:HE2	1:B:1186:ARG:NH2	2.03	0.53
1:E:1219:ALA:O	1:E:1220:ARG:C	2.47	0.53
1:C:1400:SER:O	1:C:1401:LEU:C	2.44	0.53
2:J:295:LEU:CD1	2:J:319:LEU:HD13	2.39	0.53
1:F:1104:MET:C	2:I:54:PHE:CZ	2.81	0.53
1:A:659:ILE:HA	1:A:663:ALA:HB3	1.91	0.53
2:K:322:ARG:HD2	2:K:349:ALA:CB	2.38	0.53
2:K:372:ALA:HB1	2:K:381:GLN:O	2.08	0.53
1:A:1310:THR:O	1:A:1313:SER:N	2.33	0.53
1:B:447:LEU:HD11	1:B:451:GLN:NE2	2.23	0.53
1:D:443:ASP:O	1:D:445:ALA:N	2.41	0.53
2:G:94:CYS:HB3	2:G:98:CYS:SG	2.49	0.53
2:K:249:LYS:HE2	2:K:258:ILE:HD11	1.90	0.53
2:I:317:LYS:HZ2	2:I:345:ILE:HG21	1.73	0.53
1:D:1438:ARG:CZ	2:I:376:GLY:O	2.57	0.53
2:K:49:GLN:HE22	2:K:69:LEU:CG	2.22	0.53
2:J:174:HIS:CE1	2:J:215:HIS:HB3	2.44	0.53
2:J:49:GLN:HE22	2:J:69:LEU:CG	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:94:CYS:HB3	2:J:98:CYS:SG	2.49	0.53
2:L:238:VAL:HG23	2:L:439:ALA:CA	2.38	0.53
2:L:432:THR:HG22	2:L:434:MET:N	2.15	0.53
2:L:97:ILE:HD11	2:L:450:VAL:CB	2.37	0.53
2:L:249:LYS:HE2	2:L:258:ILE:HD11	1.90	0.53
2:L:250:ALA:HB1	2:L:251:PRO:CD	2.33	0.53
2:H:434:MET:HB2	2:H:437:VAL:HG11	1.87	0.53
1:C:838:VAL:HG12	1:C:839:PRO:CD	2.32	0.53
1:A:643:ASN:ND2	1:A:665:THR:HB	2.22	0.53
1:F:574:PRO:HD3	1:F:615:ARG:HH12	1.74	0.53
1:F:615:ARG:HH11	1:F:615:ARG:HG2	1.73	0.53
2:G:269:ASN:ND2	2:G:273:LEU:HD23	2.24	0.53
2:L:269:ASN:ND2	2:L:273:LEU:HD23	2.24	0.53
1:A:572:THR:HG23	1:A:615:ARG:HB3	1.90	0.53
1:B:223:GLN:HB3	1:B:224:PRO:CA	2.37	0.53
1:A:976:SER:O	1:A:979:ASP:HB2	2.08	0.53
1:A:1143:ALA:O	1:A:1144:GLU:C	2.45	0.53
1:A:369:THR:HG22	1:A:1293:ASN:ND2	2.23	0.53
1:C:369:THR:HG22	1:C:1293:ASN:ND2	2.23	0.53
1:D:1470:VAL:O	1:D:1470:VAL:CG1	2.56	0.53
1:A:468:MET:HG2	1:A:699:ALA:CB	2.38	0.53
1:E:269:VAL:HG23	1:E:270:GLY:N	2.22	0.53
1:C:608:ASP:OD2	1:C:646:THR:HA	2.09	0.53
2:J:54:PHE:HB3	2:J:107:ASN:CB	2.36	0.53
1:A:899:ASN:O	1:C:1263:HIS:CE1	2.62	0.53
1:C:443:ASP:O	1:C:446:GLU:N	2.28	0.53
1:C:1375:ILE:O	1:C:1377:GLY:N	2.39	0.53
1:A:253:HIS:CE1	1:A:254:PRO:HG2	2.44	0.53
1:C:253:HIS:CE1	1:C:254:PRO:HG2	2.44	0.53
2:G:60:PRO:HB2	2:G:451:VAL:HG22	1.90	0.53
2:G:454:ILE:HD13	2:G:458:ARG:HG2	1.91	0.53
2:K:181:ARG:C	2:K:181:ARG:HD2	2.28	0.53
2:I:416:LYS:NZ	2:I:416:LYS:HB2	2.24	0.53
2:H:371:VAL:HG21	2:H:386:SER:CB	2.39	0.53
2:L:174:HIS:CE1	2:L:215:HIS:HB3	2.44	0.53
2:L:416:LYS:HZ2	2:L:416:LYS:HB2	1.73	0.53
2:G:418:THR:N	2:G:424:LEU:HD22	2.23	0.53
2:L:406:LEU:CD2	2:L:406:LEU:H	2.21	0.53
1:F:1050:SER:O	1:F:1051:GLU:C	2.46	0.53
1:F:505:GLN:NE2	1:F:1001:VAL:N	2.55	0.53
1:B:734:LEU:HD11	1:B:738:HIS:HD2	1.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1093:GLY:O	1:B:1094:THR:C	2.45	0.53
2:H:269:ASN:ND2	2:H:273:LEU:HD23	2.24	0.53
2:L:276:THR:HG22	2:L:277:VAL:HG23	1.91	0.53
1:E:1289:MET:HE2	1:E:1289:MET:H	1.73	0.53
1:C:73:VAL:O	1:C:172:LEU:HA	2.09	0.53
1:C:302:ALA:HA	1:C:347:ARG:NH1	2.23	0.53
1:B:628:HIS:O	1:B:629:THR:C	2.47	0.53
1:A:587:ARG:O	1:A:590:ARG:HB2	2.09	0.53
2:J:45:ASN:N	2:J:45:ASN:HD21	2.04	0.53
1:E:1093:GLY:O	1:E:1096:SER:N	2.41	0.53
1:A:518:ARG:NH2	1:A:1382:ASN:HD22	2.06	0.53
1:E:1016:ALA:O	1:E:1017:ASN:HB2	2.08	0.53
1:C:1112:THR:O	2:K:112:GLN:NE2	2.40	0.53
1:C:782:ARG:C	1:C:784:SER:H	2.12	0.53
1:A:1263:HIS:CE1	1:E:899:ASN:O	2.62	0.53
2:L:321:ARG:HD3	2:L:322:ARG:CB	2.37	0.53
2:J:322:ARG:HG3	2:J:326:ASN:OD1	2.09	0.53
1:B:1289:MET:CB	1:B:1289:MET:CE	2.87	0.53
1:E:253:HIS:ND1	1:E:254:PRO:CG	2.71	0.53
1:E:1375:ILE:O	1:E:1377:GLY:N	2.39	0.53
1:F:443:ASP:O	1:F:445:ALA:N	2.41	0.53
2:G:174:HIS:CE1	2:G:215:HIS:HB3	2.44	0.53
2:G:207:LEU:HG	2:G:214:TYR:OH	2.07	0.53
2:G:416:LYS:HB2	2:G:416:LYS:NZ	2.24	0.53
1:C:67:PRO:HG3	1:C:105:TYR:OH	2.08	0.53
1:A:729:GLY:C	1:A:748:GLY:HA3	2.29	0.53
2:I:350:PRO:HG2	2:I:373:ASP:O	2.09	0.53
2:I:372:ALA:HB1	2:I:381:GLN:O	2.08	0.53
2:K:162:ALA:CB	2:K:237:LEU:HD12	2.38	0.53
2:K:238:VAL:HG23	2:K:439:ALA:CA	2.38	0.53
2:K:60:PRO:HB2	2:K:451:VAL:HG22	1.90	0.53
2:H:404:GLU:HG3	2:H:404:GLU:O	2.09	0.53
2:J:60:PRO:HB2	2:J:451:VAL:HG22	1.90	0.53
2:J:371:VAL:HG21	2:J:386:SER:CB	2.39	0.53
2:L:454:ILE:HD13	2:L:458:ARG:HG2	1.91	0.53
2:H:145:GLU:OE2	2:H:171:TYR:HE1	1.91	0.53
2:H:443:ILE:HD12	2:H:444:VAL:CA	2.39	0.53
1:A:1391:MET:HE1	1:A:1458:VAL:CG2	2.37	0.53
2:K:243:TYR:CE1	2:K:405:ASP:HB3	2.43	0.53
1:D:602:THR:O	1:D:640:THR:CG2	2.56	0.53
1:D:615:ARG:HH11	1:D:615:ARG:HG2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:753:GLY:O	1:E:754:ILE:C	2.46	0.53
1:C:392:ALA:O	1:C:400:LEU:CD1	2.53	0.53
1:B:1388:THR:O	1:B:1388:THR:HG23	2.06	0.53
1:E:1121:ASP:OD1	1:E:1122:ASP:N	2.42	0.53
1:A:1398:ASP:O	1:A:1399:ASP:C	2.47	0.53
1:F:1068:ARG:NE	1:F:1089:GLU:OE1	2.38	0.53
1:A:119:GLU:O	1:A:120:LYS:C	2.47	0.53
1:E:1221:PRO:CB	1:E:1229:MET:CE	2.73	0.53
1:A:1400:SER:O	1:A:1403:LEU:N	2.27	0.53
2:L:353:PHE:CE1	2:L:382:VAL:HG12	2.44	0.53
1:C:1375:ILE:HB	1:C:1394:VAL:HG22	1.91	0.53
2:J:317:LYS:CE	2:J:345:ILE:HG21	2.38	0.53
1:C:708:MET:O	1:C:710:LYS:N	2.41	0.53
2:K:317:LYS:CE	2:K:345:ILE:HG21	2.38	0.53
1:F:1131:THR:CG2	1:F:1133:GLU:N	2.72	0.53
2:K:292:VAL:HG22	2:K:394:LEU:CD1	2.30	0.53
2:J:244:LYS:HG3	2:J:402:GLU:O	2.08	0.53
2:I:322:ARG:HD2	2:I:349:ALA:CB	2.38	0.53
1:A:1349:ARG:CG	1:A:1349:ARG:HH11	2.22	0.53
2:H:350:PRO:HG2	2:H:373:ASP:O	2.09	0.53
2:G:244:LYS:HG3	2:G:402:GLU:O	2.08	0.53
2:I:60:PRO:HB2	2:I:451:VAL:HG22	1.90	0.53
2:I:406:LEU:CD2	2:I:406:LEU:H	2.21	0.53
1:E:1316:GLU:O	1:E:1318:ASN:N	2.42	0.53
2:H:197:LYS:NZ	2:H:275:ASP:HB3	2.24	0.53
1:C:932:VAL:O	1:C:933:ALA:CB	2.45	0.53
1:F:240:ASN:ND2	1:F:327:TRP:CD2	2.77	0.53
1:A:317:ILE:CG2	1:A:321:ASN:HD21	2.19	0.53
1:A:496:HIS:O	1:A:653:HIS:CE1	2.61	0.53
1:E:1207:VAL:HG13	1:E:1208:PRO:CD	2.39	0.53
1:E:571:ALA:HB2	1:E:606:LEU:CD2	2.39	0.53
1:D:1161:VAL:CG1	1:D:1161:VAL:O	2.57	0.53
1:A:92:ILE:O	1:A:93:VAL:C	2.45	0.53
1:B:1233:TYR:O	1:B:1268:LEU:HA	2.09	0.53
1:D:1432:VAL:O	1:D:1433:THR:C	2.45	0.53
1:F:131:ILE:HG23	1:F:131:ILE:O	2.09	0.53
1:E:1155:PHE:N	1:E:1155:PHE:CD1	2.77	0.53
1:E:175:ARG:NH2	1:E:203:ASP:OD2	2.42	0.53
1:C:1016:ALA:O	1:C:1017:ASN:HB2	2.08	0.53
2:L:110:ILE:HG13	2:L:117:ALA:CA	2.35	0.53
2:L:295:LEU:CD1	2:L:319:LEU:HD13	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1374:VAL:C	1:E:1375:ILE:HG13	2.28	0.53
1:F:1047:MET:CE	1:F:1186:ARG:NH2	2.44	0.53
1:B:763:ALA:O	1:B:765:ALA:N	2.42	0.53
1:D:447:LEU:HD11	1:D:451:GLN:NE2	2.23	0.53
1:D:763:ALA:O	1:D:765:ALA:N	2.42	0.53
2:H:271:VAL:HG11	2:H:284:SER:O	2.09	0.53
2:G:97:ILE:HD11	2:G:450:VAL:CB	2.37	0.53
2:I:317:LYS:CE	2:I:345:ILE:HG21	2.38	0.53
2:I:350:PRO:HD2	2:I:374:ALA:CA	2.40	0.53
2:K:454:ILE:HD13	2:K:458:ARG:HG2	1.91	0.53
2:H:345:ILE:N	2:H:345:ILE:HD13	2.17	0.53
2:H:317:LYS:CE	2:H:345:ILE:HG21	2.38	0.53
2:H:350:PRO:HD2	2:H:374:ALA:CA	2.39	0.53
2:I:454:ILE:HD13	2:I:458:ARG:HG2	1.91	0.53
2:I:71:LEU:HD13	2:I:72:THR:N	2.24	0.53
2:I:94:CYS:HB3	2:I:98:CYS:SG	2.49	0.53
2:J:415:LEU:CG	2:J:432:THR:HG23	2.34	0.53
2:J:465:HIS:NE2	2:J:469:LYS:HE3	2.24	0.53
2:J:71:LEU:HD13	2:J:72:THR:N	2.24	0.53
2:L:77:LEU:CA	2:L:127:ILE:HD11	2.39	0.53
2:L:145:GLU:OE2	2:L:171:TYR:HE1	1.91	0.53
2:L:186:LEU:HD21	2:L:195:LEU:HD11	1.91	0.53
2:L:473:GLU:O	2:L:473:GLU:HG2	2.08	0.53
2:L:71:LEU:HD13	2:L:72:THR:N	2.24	0.53
2:L:181:ARG:HD2	2:L:181:ARG:C	2.28	0.53
1:E:1391:MET:HE1	1:E:1458:VAL:HG21	1.90	0.53
2:G:243:TYR:CE1	2:G:405:ASP:HB3	2.43	0.53
1:D:529:LEU:HB3	1:D:638:THR:OG1	2.08	0.53
1:F:528:ASN:HB3	1:F:542:LEU:HD22	1.91	0.53
1:A:1316:GLU:O	1:A:1318:ASN:N	2.42	0.53
1:C:1077:ARG:O	1:C:1078:ASP:C	2.44	0.53
1:C:753:GLY:O	1:C:754:ILE:C	2.46	0.53
1:B:615:ARG:HH11	1:B:615:ARG:HG2	1.73	0.53
2:K:197:LYS:NZ	2:K:275:ASP:HB3	2.24	0.53
2:I:197:LYS:NZ	2:I:275:ASP:HB3	2.24	0.53
1:B:302:ALA:CA	1:B:347:ARG:NH1	2.72	0.53
1:B:1058:LEU:O	1:B:1058:LEU:CD2	2.57	0.53
1:E:1398:ASP:O	1:E:1399:ASP:C	2.47	0.53
1:E:31:ARG:NH1	1:E:368:GLU:OE2	2.42	0.53
1:D:549:VAL:O	1:D:697:LYS:HE3	2.09	0.53
1:B:62:ILE:O	1:B:62:ILE:HG22	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:62:ILE:O	1:D:62:ILE:HG22	2.08	0.53
1:D:855:THR:O	1:D:855:THR:HG22	2.09	0.53
1:A:269:VAL:HG23	1:A:270:GLY:N	2.22	0.53
1:C:1061:LEU:O	1:C:1064:ARG:HB2	2.08	0.53
1:B:1227:GLU:OE2	1:D:876:ASN:ND2	2.43	0.52
1:C:1219:ALA:O	1:C:1220:ARG:C	2.47	0.52
1:E:1438:ARG:CB	2:K:376:GLY:H	1.95	0.52
1:E:266:VAL:O	1:E:279:THR:HG23	2.08	0.52
1:E:631:LEU:HD13	1:E:636:LEU:HB3	1.90	0.52
1:F:830:GLU:HG2	1:F:831:LEU:N	2.24	0.52
1:D:500:ARG:HD2	1:D:728:ILE:CG2	2.39	0.52
2:K:271:VAL:HG11	2:K:284:SER:O	2.09	0.52
2:J:181:ARG:O	2:J:182:MET:HE3	2.09	0.52
2:J:404:GLU:O	2:J:404:GLU:HG3	2.09	0.52
2:K:465:HIS:NE2	2:K:469:LYS:HE3	2.24	0.52
2:K:81:TYR:CZ	2:K:85:GLN:HG3	2.44	0.52
2:H:295:LEU:CD1	2:H:319:LEU:HD13	2.39	0.52
1:E:1212:ASP:OD1	1:E:1243:GLY:N	2.24	0.52
2:I:174:HIS:CE1	2:I:215:HIS:HB3	2.44	0.52
2:I:207:LEU:HG	2:I:214:TYR:OH	2.07	0.52
2:J:144:ARG:HH11	2:J:169:LYS:HA	1.74	0.52
2:J:443:ILE:HD12	2:J:444:VAL:CA	2.39	0.52
2:J:473:GLU:O	2:J:473:GLU:HG2	2.08	0.52
2:G:350:PRO:HG2	2:G:373:ASP:O	2.09	0.52
2:G:249:LYS:HE2	2:G:258:ILE:HD11	1.90	0.52
2:H:97:ILE:CD1	2:H:450:VAL:HG11	2.39	0.52
1:A:753:GLY:O	1:A:754:ILE:C	2.46	0.52
1:A:218:THR:HG22	1:A:218:THR:O	2.08	0.52
1:B:574:PRO:HD3	1:B:615:ARG:HH12	1.74	0.52
1:D:672:GLN:HG3	1:D:693:MET:SD	2.49	0.52
2:J:269:ASN:ND2	2:J:273:LEU:HD23	2.24	0.52
1:F:484:PRO:HG3	1:F:823:MET:CG	2.39	0.52
1:C:1122:ASP:O	1:C:1126:GLN:HG3	2.09	0.52
1:A:1122:ASP:O	1:A:1126:GLN:HG3	2.09	0.52
1:C:175:ARG:NH2	1:C:203:ASP:OD2	2.42	0.52
2:G:445:ARG:HG2	2:G:445:ARG:O	2.09	0.52
1:B:500:ARG:HD2	1:B:728:ILE:CG2	2.39	0.52
1:F:781:PHE:O	2:I:52:VAL:HB	1.92	0.52
1:A:227:MET:HE3	1:A:282:GLU:CG	2.38	0.52
1:E:1375:ILE:HB	1:E:1394:VAL:HG22	1.91	0.52
1:E:1427:LEU:O	1:E:1430:GLU:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:322:ARG:HG3	2:K:326:ASN:OD1	2.09	0.52
1:D:830:GLU:HG2	1:D:831:LEU:N	2.24	0.52
1:C:430:VAL:HG11	1:C:554:GLU:HB2	1.88	0.52
2:G:97:ILE:CD1	2:G:450:VAL:HG11	2.39	0.52
1:C:729:GLY:C	1:C:748:GLY:HA3	2.29	0.52
2:I:321:ARG:HD3	2:I:322:ARG:CB	2.37	0.52
2:K:443:ILE:HD12	2:K:444:VAL:CA	2.39	0.52
2:K:89:ASN:C	2:K:91:PRO:HD3	2.30	0.52
2:H:322:ARG:HD2	2:H:349:ALA:CB	2.38	0.52
2:I:249:LYS:HE2	2:I:258:ILE:HD13	1.91	0.52
2:G:322:ARG:HD3	2:G:349:ALA:CA	2.39	0.52
2:L:469:LYS:CD	2:L:476:VAL:HB	2.38	0.52
2:L:249:LYS:HE2	2:L:258:ILE:HD13	1.91	0.52
2:L:244:LYS:HG3	2:L:402:GLU:O	2.09	0.52
2:H:174:HIS:CE1	2:H:215:HIS:HB3	2.44	0.52
2:H:240:THR:HG1	8:H:484:FAD:C5A	2.23	0.52
1:F:1008:THR:HG22	1:F:1009:ILE:H	1.70	0.52
1:B:100:PHE:O	1:B:137:LYS:CE	2.46	0.52
1:E:1007:GLY:N	1:E:1051:GLU:OE2	2.41	0.52
1:C:1317:THR:CG2	1:C:1318:ASN:N	2.63	0.52
1:D:602:THR:O	1:D:640:THR:HA	2.09	0.52
1:F:672:GLN:HG3	1:F:693:MET:SD	2.49	0.52
1:F:349:GLY:HA3	1:F:387:PRO:HG3	1.90	0.52
1:E:389:GLU:HA	1:E:403:ASP:OD2	2.09	0.52
1:B:672:GLN:HG3	1:B:693:MET:SD	2.49	0.52
1:F:302:ALA:CA	1:F:347:ARG:NH1	2.72	0.52
1:B:40:THR:O	1:B:40:THR:CG2	2.57	0.52
2:G:276:THR:HG22	2:G:277:VAL:HG23	1.91	0.52
1:D:1058:LEU:O	1:D:1058:LEU:CD2	2.57	0.52
1:B:1323:ILE:HD12	1:B:1327:VAL:HG21	1.91	0.52
1:B:281:PHE:O	1:B:285:VAL:HG23	2.09	0.52
1:C:660:GLY:HA2	1:C:721:GLY:H	1.74	0.52
1:B:1003:ARG:HG3	1:B:1004:SER:N	2.24	0.52
1:D:917:VAL:HG13	1:D:922:LEU:HD21	1.90	0.52
1:E:608:ASP:OD2	1:E:646:THR:HA	2.09	0.52
1:F:281:PHE:O	1:F:285:VAL:HG23	2.09	0.52
2:L:349:ALA:HB3	2:L:350:PRO:CD	2.39	0.52
2:K:317:LYS:NZ	2:K:345:ILE:HG21	2.24	0.52
1:F:676:ALA:O	1:F:677:GLU:C	2.45	0.52
2:G:469:LYS:CD	2:G:476:VAL:HB	2.38	0.52
2:G:89:ASN:C	2:G:91:PRO:HD3	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:244:LYS:HG3	2:K:402:GLU:O	2.08	0.52
1:D:1442:GLU:OE2	2:I:375:THR:HA	2.08	0.52
2:K:153:ILE:HG21	2:K:238:VAL:HG12	1.90	0.52
2:K:174:HIS:CE1	2:K:215:HIS:HB3	2.44	0.52
2:I:215:HIS:CD2	2:I:218:PHE:CD1	2.98	0.52
2:I:249:LYS:HG3	2:I:258:ILE:CD1	2.39	0.52
2:G:295:LEU:CD1	2:G:319:LEU:HD13	2.39	0.52
2:L:153:ILE:HG21	2:L:238:VAL:HG12	1.90	0.52
2:L:469:LYS:HD2	2:L:476:VAL:CB	2.39	0.52
2:L:89:ASN:C	2:L:91:PRO:HD3	2.30	0.52
2:H:473:GLU:O	2:H:473:GLU:HG2	2.08	0.52
2:H:81:TYR:CZ	2:H:85:GLN:HG3	2.44	0.52
2:G:197:LYS:NZ	2:G:275:ASP:HB3	2.24	0.52
1:B:240:ASN:ND2	1:B:327:TRP:CD2	2.77	0.52
1:F:621:ILE:HG12	1:F:657:VAL:CG1	2.40	0.52
2:H:276:THR:HG22	2:H:277:VAL:HG23	1.91	0.52
1:E:572:THR:CG2	1:E:615:ARG:NE	2.72	0.52
2:L:45:ASN:HD21	2:L:45:ASN:H	1.57	0.52
1:A:608:ASP:OD2	1:A:646:THR:HA	2.09	0.52
1:E:119:GLU:O	1:E:120:LYS:C	2.47	0.52
1:C:1385:ALA:HB2	1:C:1406:ASN:HD22	1.74	0.52
1:B:1470:VAL:O	1:B:1470:VAL:HG13	2.08	0.52
1:A:1135:VAL:O	1:A:1136:VAL:C	2.44	0.52
1:C:845:SER:O	1:C:848:ALA:HB3	2.10	0.52
1:B:1452:THR:HG22	1:B:1453:LYS:HG3	1.91	0.52
1:A:1427:LEU:O	1:A:1430:GLU:N	2.42	0.52
2:L:350:PRO:HG2	2:L:373:ASP:O	2.09	0.52
1:C:659:ILE:HA	1:C:663:ALA:HB3	1.91	0.52
1:D:446:GLU:O	1:D:449:ARG:N	2.43	0.52
2:G:153:ILE:HG21	2:G:238:VAL:HG12	1.90	0.52
2:K:97:ILE:CD1	2:K:450:VAL:HG11	2.39	0.52
2:H:322:ARG:HD3	2:H:349:ALA:CA	2.39	0.52
2:I:473:GLU:O	2:I:473:GLU:HG2	2.09	0.52
2:I:469:LYS:CD	2:I:476:VAL:HB	2.38	0.52
2:J:145:GLU:OE2	2:J:171:TYR:HE1	1.91	0.52
2:G:322:ARG:HD2	2:G:349:ALA:CB	2.38	0.52
2:G:249:LYS:HE2	2:G:258:ILE:HD13	1.91	0.52
2:H:415:LEU:CG	2:H:432:THR:HG23	2.34	0.52
1:D:342:VAL:HG12	1:D:343:GLY:N	2.24	0.52
1:F:419:TRP:O	1:F:540:THR:CB	2.58	0.52
1:E:843:VAL:HG12	1:E:844:GLU:H	1.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:269:ASN:ND2	2:I:273:LEU:HD23	2.24	0.52
1:A:1290:GLY:O	1:A:1291:ASP:CB	2.53	0.52
1:C:594:GLU:O	1:C:595:ASP:C	2.48	0.52
1:B:830:GLU:HG2	1:B:831:LEU:N	2.24	0.52
1:C:1207:VAL:HG13	1:C:1208:PRO:CD	2.39	0.52
1:B:1216:VAL:HG11	1:B:1249:MET:HE1	1.90	0.52
1:D:1326:THR:O	1:D:1326:THR:HG22	2.10	0.52
1:A:302:ALA:HA	1:A:347:ARG:NH1	2.23	0.52
1:A:481:ASP:C	1:A:481:ASP:OD1	2.44	0.52
1:B:549:VAL:O	1:B:697:LYS:HE3	2.10	0.52
1:F:1406:ASN:OD1	1:F:1406:ASN:C	2.48	0.52
1:C:1011:ALA:O	1:C:1014:ALA:HB3	2.09	0.52
1:F:549:VAL:O	1:F:697:LYS:HE3	2.10	0.52
1:E:587:ARG:O	1:E:590:ARG:HB2	2.09	0.52
1:C:782:ARG:HG2	2:K:53:PRO:HD2	0.55	0.52
1:D:1222:LEU:HD12	1:D:1222:LEU:C	2.24	0.52
1:E:253:HIS:CE1	1:E:254:PRO:HG2	2.44	0.52
1:E:1401:LEU:CD1	1:E:1401:LEU:O	2.53	0.52
2:K:350:PRO:HD2	2:K:374:ALA:CA	2.40	0.52
2:K:350:PRO:HG2	2:K:373:ASP:O	2.09	0.52
2:G:215:HIS:CD2	2:G:218:PHE:CD1	2.98	0.52
2:G:49:GLN:HE22	2:G:69:LEU:CG	2.22	0.52
2:J:249:LYS:HG3	2:J:258:ILE:CD1	2.39	0.52
2:K:144:ARG:HH11	2:K:169:LYS:HA	1.74	0.52
2:K:215:HIS:CD2	2:K:218:PHE:CD1	2.98	0.52
2:K:68:TRP:HB2	2:K:80:ALA:HB1	1.91	0.52
2:I:145:GLU:OE2	2:I:171:TYR:HE1	1.91	0.52
2:I:443:ILE:HD12	2:I:444:VAL:CA	2.39	0.52
2:I:469:LYS:HD2	2:I:476:VAL:CB	2.39	0.52
2:J:454:ILE:HD13	2:J:458:ARG:HG2	1.91	0.52
2:G:249:LYS:HG3	2:G:258:ILE:CD1	2.39	0.52
2:H:186:LEU:HD21	2:H:195:LEU:HD11	1.91	0.52
2:I:244:LYS:HG3	2:I:402:GLU:O	2.08	0.52
2:L:243:TYR:CE1	2:L:405:ASP:HB3	2.43	0.52
1:B:419:TRP:O	1:B:540:THR:CB	2.58	0.52
1:A:826:ARG:HG2	1:A:1046:GLU:OE2	2.07	0.52
1:B:602:THR:O	1:B:640:THR:HA	2.09	0.52
1:C:389:GLU:HA	1:C:403:ASP:OD2	2.09	0.52
1:C:843:VAL:HG12	1:C:844:GLU:H	1.70	0.52
1:A:414:LYS:CB	1:A:415:PRO:CD	2.87	0.52
1:E:414:LYS:CB	1:E:415:PRO:CD	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:536:ASP:O	1:B:536:ASP:OD1	2.28	0.52
1:E:572:THR:HG23	1:E:615:ARG:HB3	1.90	0.52
1:F:223:GLN:HB3	1:F:224:PRO:CA	2.37	0.52
1:B:1326:THR:HG22	1:B:1326:THR:O	2.10	0.52
1:A:657:VAL:O	1:A:658:LEU:C	2.48	0.52
1:B:1420:TYR:O	1:B:1421:GLU:C	2.46	0.52
1:B:1406:ASN:C	1:B:1406:ASN:OD1	2.48	0.52
1:A:1155:PHE:N	1:A:1155:PHE:CD1	2.77	0.52
1:D:846:ILE:O	1:D:847:THR:C	2.48	0.52
1:D:485:ILE:O	1:D:488:LEU:N	2.43	0.52
1:D:60:LYS:O	1:D:63:GLY:N	2.38	0.52
1:D:1227:GLU:OE2	1:F:876:ASN:ND2	2.43	0.52
1:C:1438:ARG:O	1:C:1440:ALA:N	2.42	0.52
2:K:102:ARG:C	2:K:103:LEU:HD23	2.30	0.52
2:K:295:LEU:CD1	2:K:319:LEU:HD13	2.39	0.52
1:F:260:MET:O	1:F:263:LEU:CB	2.55	0.52
1:D:443:ASP:O	1:D:446:GLU:N	2.40	0.52
1:F:1394:VAL:HG11	1:F:1401:LEU:CD2	2.40	0.52
1:A:731:SER:CA	1:A:747:SER:HB2	2.40	0.52
1:E:729:GLY:C	1:E:748:GLY:HA3	2.29	0.52
2:I:353:PHE:CE1	2:I:382:VAL:HG12	2.44	0.52
2:I:186:LEU:HD21	2:I:195:LEU:HD11	1.91	0.52
2:I:465:HIS:NE2	2:I:469:LYS:HE3	2.24	0.52
2:I:49:GLN:HE22	2:I:69:LEU:CG	2.22	0.52
2:I:97:ILE:HD11	2:I:450:VAL:HB	1.92	0.52
2:J:186:LEU:HD21	2:J:195:LEU:HD11	1.91	0.52
2:J:449:LEU:HD11	2:J:451:VAL:CG1	2.31	0.52
2:J:90:PHE:HB3	2:J:93:ILE:HG22	1.86	0.52
1:F:1438:ARG:CZ	2:G:376:GLY:O	2.57	0.52
2:G:353:PHE:CE1	2:G:382:VAL:HG12	2.44	0.52
2:L:215:HIS:CD2	2:L:218:PHE:CD1	2.98	0.52
2:L:97:ILE:CD1	2:L:450:VAL:HG11	2.39	0.52
2:L:60:PRO:HB2	2:L:451:VAL:HG22	1.90	0.52
2:H:454:ILE:HD13	2:H:458:ARG:HG2	1.91	0.52
1:B:1219:ALA:HA	1:B:1229:MET:HE1	1.90	0.52
1:B:520:MET:HE3	1:B:705:LEU:HB3	1.91	0.52
1:B:710:LYS:HG2	1:B:939:GLY:CA	2.18	0.52
1:D:1316:GLU:O	1:D:1317:THR:C	2.46	0.52
1:B:1075:THR:CG2	1:B:1076:GLY:N	2.73	0.52
1:B:1051:GLU:O	1:B:1052:VAL:C	2.46	0.52
1:F:602:THR:O	1:F:640:THR:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:574:PRO:HD3	1:D:615:ARG:HH12	1.74	0.52
1:D:693:MET:O	1:D:694:ALA:C	2.45	0.52
1:C:230:HIS:CE1	1:C:234:ILE:HG13	2.35	0.52
1:D:484:PRO:HG3	1:D:823:MET:CG	2.39	0.52
2:J:276:THR:HG22	2:J:277:VAL:HG23	1.91	0.52
1:C:1420:TYR:OH	1:C:1466:LEU:HD22	2.09	0.52
1:A:1057:THR:HG22	1:A:1190:VAL:HG11	1.91	0.52
1:D:1420:TYR:O	1:D:1421:GLU:C	2.46	0.52
1:D:136:ASN:N	1:D:136:ASN:OD1	2.38	0.52
1:D:1323:ILE:HD12	1:D:1327:VAL:HG21	1.91	0.52
1:A:660:GLY:HA2	1:A:721:GLY:H	1.74	0.52
1:B:855:THR:O	1:B:855:THR:HG22	2.09	0.52
2:L:445:ARG:HG2	2:L:445:ARG:O	2.10	0.52
1:C:1155:PHE:CD1	1:C:1155:PHE:N	2.77	0.52
1:F:1338:ALA:O	1:F:1340:GLY:N	2.43	0.52
1:A:1250:VAL:HG13	1:A:1254:PHE:HD2	1.75	0.52
1:D:875:MET:O	1:D:876:ASN:C	2.47	0.52
1:E:782:ARG:C	1:E:784:SER:H	2.12	0.52
1:D:1452:THR:HG22	1:D:1453:LYS:HG3	1.91	0.52
2:L:320:TYR:CD2	2:L:346:TRP:CG	2.98	0.52
2:L:322:ARG:HD3	2:L:349:ALA:CA	2.39	0.52
2:G:54:PHE:HB3	2:G:107:ASN:CB	2.36	0.52
2:K:322:ARG:HD3	2:K:349:ALA:CA	2.39	0.52
1:E:250:ARG:O	1:E:531:ASN:ND2	2.42	0.52
1:F:500:ARG:HD2	1:F:728:ILE:CG2	2.39	0.52
2:H:249:LYS:HE2	2:H:258:ILE:HD11	1.90	0.52
2:G:144:ARG:HH11	2:G:169:LYS:HA	1.74	0.52
2:G:443:ILE:HD12	2:G:444:VAL:CA	2.39	0.52
1:F:1401:LEU:HB3	1:F:1402:PRO:HD3	1.91	0.52
1:E:731:SER:HA	1:E:747:SER:CA	2.40	0.52
1:E:731:SER:CA	1:E:747:SER:HB2	2.40	0.52
1:D:1438:ARG:O	1:D:1441:ALA:N	2.43	0.52
2:K:416:LYS:NZ	2:K:416:LYS:HB2	2.24	0.52
1:B:1376:LEU:HB3	1:B:1439:PHE:HE2	1.75	0.52
2:H:320:TYR:CD2	2:H:346:TRP:CG	2.98	0.52
2:I:77:LEU:CA	2:I:127:ILE:HD11	2.40	0.52
2:I:81:TYR:CZ	2:I:85:GLN:HG3	2.44	0.52
2:J:416:LYS:NZ	2:J:416:LYS:HB2	2.24	0.52
2:L:465:HIS:NE2	2:L:469:LYS:HE3	2.24	0.52
2:L:271:VAL:HG11	2:L:284:SER:O	2.09	0.52
2:H:77:LEU:CA	2:H:127:ILE:HD11	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:416:LYS:HB2	2:H:416:LYS:HZ2	1.75	0.52
2:H:60:PRO:HB2	2:H:451:VAL:HG22	1.90	0.52
2:H:71:LEU:HD13	2:H:72:THR:N	2.24	0.52
2:I:404:GLU:O	2:I:404:GLU:HG3	2.09	0.52
2:G:417:VAL:CG1	2:G:421:GLY:HA2	2.40	0.52
2:G:406:LEU:H	2:G:406:LEU:CD2	2.21	0.52
1:B:342:VAL:HG12	1:B:343:GLY:N	2.24	0.52
2:H:417:VAL:CG1	2:H:421:GLY:HA2	2.40	0.52
1:D:349:GLY:HA3	1:D:387:PRO:HG3	1.90	0.52
1:F:918:THR:O	1:F:919:ALA:C	2.42	0.52
1:C:414:LYS:CB	1:C:415:PRO:CD	2.87	0.52
2:I:276:THR:HG22	2:I:277:VAL:HG23	1.91	0.52
2:L:278:GLU:H	2:L:278:GLU:CD	2.13	0.52
1:A:571:ALA:HB2	1:A:606:LEU:CD2	2.39	0.52
1:E:572:THR:CG2	1:E:573:PHE:N	2.73	0.52
1:C:572:THR:CG2	1:C:615:ARG:NE	2.72	0.52
1:E:1122:ASP:O	1:E:1126:GLN:HG3	2.09	0.52
1:F:1447:TRP:CD2	1:F:1451:VAL:HG22	2.45	0.52
1:E:73:VAL:O	1:E:172:LEU:HA	2.09	0.52
1:A:31:ARG:NH1	1:A:368:GLU:OE2	2.42	0.52
2:G:45:ASN:HD21	2:G:45:ASN:H	1.57	0.52
1:B:1470:VAL:O	1:B:1470:VAL:CG1	2.56	0.52
2:I:445:ARG:O	2:I:445:ARG:HG2	2.09	0.52
1:A:1438:ARG:O	1:A:1440:ALA:N	2.42	0.52
2:J:320:TYR:CD2	2:J:346:TRP:CG	2.98	0.52
2:J:367:ILE:HD13	2:J:368:HIS:O	2.10	0.52
1:C:266:VAL:CG1	1:C:279:THR:HG23	2.33	0.52
1:A:430:VAL:HG11	1:A:554:GLU:HB2	1.88	0.52
2:H:353:PHE:CE1	2:H:382:VAL:HG12	2.44	0.52
1:A:1113:CYS:O	1:A:1115:VAL:N	2.42	0.52
2:J:97:ILE:CD1	2:J:450:VAL:HG11	2.39	0.52
1:C:143:GLN:NE2	1:C:143:GLN:O	2.41	0.52
2:L:81:TYR:CZ	2:L:85:GLN:HG3	2.44	0.52
2:L:249:LYS:HG3	2:L:258:ILE:CD1	2.39	0.52
2:L:404:GLU:O	2:L:404:GLU:HG3	2.09	0.52
2:H:144:ARG:HH11	2:H:169:LYS:HA	1.74	0.52
2:H:416:LYS:HZ2	2:H:433:ASN:HB2	1.75	0.52
2:H:49:GLN:HE22	2:H:69:LEU:CG	2.22	0.52
2:H:406:LEU:H	2:H:406:LEU:CD2	2.21	0.52
2:J:406:LEU:CD2	2:J:406:LEU:H	2.21	0.52
1:D:710:LYS:HG2	1:D:939:GLY:CA	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:269:ASN:ND2	2:K:273:LEU:HD23	2.24	0.52
1:B:484:PRO:HG3	1:B:823:MET:CG	2.39	0.52
1:F:175:ARG:NH1	1:F:175:ARG:HG3	2.23	0.52
1:F:1428:ILE:O	1:F:1428:ILE:HG22	2.10	0.52
1:C:1398:ASP:O	1:C:1399:ASP:C	2.47	0.52
1:F:1420:TYR:O	1:F:1421:GLU:C	2.46	0.52
1:F:537:GLU:HG3	1:F:538:THR:N	2.08	0.52
1:E:92:ILE:O	1:E:93:VAL:C	2.45	0.52
1:E:1354:THR:HA	1:E:1372:THR:O	2.10	0.52
1:D:1470:VAL:O	1:D:1470:VAL:HG13	2.08	0.52
1:A:1011:ALA:O	1:A:1014:ALA:HB3	2.09	0.52
1:A:85:ALA:O	1:A:86:GLN:C	2.48	0.52
1:E:855:THR:HG22	1:E:855:THR:O	2.10	0.52
1:A:855:THR:O	1:A:855:THR:HG22	2.10	0.52
1:C:1401:LEU:CD1	1:C:1401:LEU:O	2.53	0.52
2:J:350:PRO:HG2	2:J:373:ASP:O	2.09	0.52
1:D:781:PHE:CD2	2:H:57:VAL:HG21	2.45	0.52
1:A:227:MET:CE	1:A:282:GLU:CG	2.88	0.52
1:F:253:HIS:CE1	1:F:254:PRO:CD	2.88	0.52
2:G:144:ARG:HG2	2:G:145:GLU:N	2.25	0.52
2:G:81:TYR:CZ	2:G:85:GLN:HG3	2.44	0.52
1:B:1394:VAL:HG11	1:B:1401:LEU:CD2	2.40	0.52
1:C:1349:ARG:HH11	1:C:1349:ARG:CG	2.22	0.52
1:C:731:SER:CA	1:C:747:SER:HB2	2.40	0.52
2:I:102:ARG:C	2:I:103:LEU:HD23	2.30	0.52
2:I:320:TYR:CD2	2:I:346:TRP:CG	2.98	0.52
2:G:181:ARG:C	2:G:182:MET:HE3	2.30	0.52
2:J:144:ARG:HG2	2:J:145:GLU:N	2.25	0.52
2:J:215:HIS:CD2	2:J:218:PHE:CD1	2.98	0.52
2:J:97:ILE:HD11	2:J:450:VAL:HB	1.92	0.52
2:J:68:TRP:CZ3	2:J:84:SER:CB	2.93	0.52
2:I:271:VAL:HG11	2:I:284:SER:O	2.09	0.52
2:H:215:HIS:CD2	2:H:218:PHE:CD1	2.98	0.52
1:F:342:VAL:HG12	1:F:343:GLY:N	2.24	0.52
1:B:528:ASN:HB3	1:B:542:LEU:HD22	1.91	0.52
1:E:560:ASP:O	1:E:561:TYR:C	2.46	0.52
2:L:197:LYS:NZ	2:L:275:ASP:HB3	2.24	0.52
1:E:392:ALA:O	1:E:400:LEU:CD1	2.53	0.52
1:F:1146:VAL:O	1:F:1147:ARG:C	2.46	0.52
1:C:432:THR:O	1:C:434:SER:N	2.43	0.52
1:E:432:THR:O	1:E:434:SER:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:432:THR:O	1:A:434:SER:N	2.43	0.52
1:D:240:ASN:ND2	1:D:327:TRP:CD2	2.77	0.52
2:I:278:GLU:CD	2:I:278:GLU:H	2.13	0.52
1:D:1428:ILE:O	1:D:1428:ILE:HG22	2.10	0.52
1:E:1143:ALA:O	1:E:1144:GLU:C	2.45	0.52
1:C:94:GLU:HG2	1:C:104:ILE:HD13	1.92	0.52
1:F:1161:VAL:CG1	1:F:1161:VAL:O	2.57	0.52
1:D:131:ILE:HG23	1:D:131:ILE:O	2.09	0.52
1:A:1375:ILE:HB	1:A:1394:VAL:HG22	1.91	0.52
2:L:317:LYS:HE3	2:L:345:ILE:CB	2.40	0.52
2:L:350:PRO:HD2	2:L:374:ALA:CA	2.39	0.52
1:C:1424:LEU:O	1:C:1425:LYS:C	2.48	0.52
1:F:1289:MET:CB	1:F:1289:MET:CE	2.87	0.52
1:E:1438:ARG:O	1:E:1440:ALA:N	2.42	0.52
1:A:244:MET:HA	1:A:247:HIS:HB2	1.92	0.52
1:C:248:GLU:C	1:C:250:ARG:H	2.13	0.52
2:G:186:LEU:HD21	2:G:195:LEU:HD11	1.91	0.52
1:E:1113:CYS:O	1:E:1115:VAL:N	2.42	0.52
2:I:322:ARG:HD3	2:I:349:ALA:CA	2.39	0.52
2:K:96:ARG:NE	2:K:199:VAL:HG21	2.25	0.52
2:H:320:TYR:CD2	2:H:346:TRP:CE2	2.98	0.52
2:I:144:ARG:HH11	2:I:169:LYS:HA	1.74	0.52
2:I:68:TRP:CZ3	2:I:84:SER:CB	2.93	0.52
2:J:89:ASN:C	2:J:91:PRO:HD3	2.30	0.52
2:G:320:TYR:CD2	2:G:346:TRP:CE2	2.98	0.52
2:L:443:ILE:HD12	2:L:444:VAL:CA	2.39	0.52
2:H:416:LYS:HB2	2:H:416:LYS:NZ	2.24	0.52
2:H:68:TRP:HB2	2:H:80:ALA:HB1	1.91	0.52
2:H:89:ASN:C	2:H:91:PRO:HD3	2.30	0.52
2:K:371:VAL:HG21	2:K:386:SER:CB	2.39	0.52
1:B:505:GLN:NE2	1:B:1001:VAL:N	2.55	0.52
1:E:295:LYS:HE2	1:E:299:VAL:HG12	1.90	0.52
1:D:1050:SER:O	1:D:1051:GLU:C	2.46	0.52
1:A:560:ASP:O	1:A:561:TYR:C	2.46	0.52
1:E:594:GLU:O	1:E:595:ASP:C	2.48	0.52
1:F:985:TYR:CE1	1:F:1207:VAL:HG11	2.45	0.52
2:K:278:GLU:H	2:K:278:GLU:CD	2.13	0.52
2:H:278:GLU:CD	2:H:278:GLU:H	2.13	0.52
1:A:1274:GLN:HE21	1:A:1293:ASN:HB3	1.74	0.52
1:F:670:LEU:C	1:F:670:LEU:HD22	2.31	0.52
1:F:1245:ARG:O	1:F:1245:ARG:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1354:THR:HA	1:C:1372:THR:O	2.10	0.52
2:J:45:ASN:H	2:J:45:ASN:HD21	1.57	0.52
1:A:175:ARG:NH2	1:A:203:ASP:OD2	2.42	0.52
1:C:296:MET:O	1:C:297:MET:C	2.40	0.52
1:C:197:ASP:OD1	1:C:199:ARG:N	2.38	0.52
1:F:875:MET:O	1:F:876:ASN:C	2.47	0.51
1:F:1222:LEU:C	1:F:1222:LEU:HD12	2.24	0.51
1:C:1394:VAL:O	1:C:1394:VAL:CG1	2.55	0.51
2:J:350:PRO:HD2	2:J:374:ALA:CA	2.39	0.51
1:E:707:ILE:HA	1:E:710:LYS:HD2	1.92	0.51
2:K:353:PHE:CE1	2:K:382:VAL:HG12	2.44	0.51
1:D:763:ALA:O	1:D:764:THR:C	2.48	0.51
2:K:249:LYS:HG3	2:K:258:ILE:CD1	2.39	0.51
2:H:377:ARG:O	2:H:378:GLN:HB3	2.10	0.51
2:I:147:GLY:HA2	2:I:171:TYR:HD1	1.75	0.51
2:I:429:THR:CB	2:I:431:MET:HE2	2.40	0.51
2:I:89:ASN:C	2:I:91:PRO:HD3	2.30	0.51
2:J:469:LYS:HD2	2:J:476:VAL:CB	2.39	0.51
2:J:71:LEU:CD2	2:J:79:GLU:HB2	2.40	0.51
2:J:81:TYR:CZ	2:J:85:GLN:HG3	2.44	0.51
1:F:1376:LEU:HB3	1:F:1439:PHE:HE2	1.75	0.51
2:G:317:LYS:HE3	2:G:345:ILE:CB	2.40	0.51
2:G:320:TYR:CD2	2:G:346:TRP:CG	2.98	0.51
1:C:235:ASN:ND2	1:C:235:ASN:C	2.52	0.51
2:H:96:ARG:NE	2:H:199:VAL:HG21	2.25	0.51
1:D:419:TRP:O	1:D:540:THR:CB	2.58	0.51
1:E:826:ARG:NH1	1:E:826:ARG:CG	2.57	0.51
1:D:828:LEU:HD22	1:D:1172:SER:CA	2.31	0.51
1:F:302:ALA:CB	1:F:347:ARG:NH1	2.73	0.51
1:E:528:ASN:HB2	1:E:542:LEU:HD22	1.90	0.51
1:C:31:ARG:NH1	1:C:368:GLU:OE2	2.43	0.51
1:E:1417:VAL:CG1	1:E:1418:GLY:N	2.73	0.51
1:F:74:GLY:HA2	1:F:172:LEU:HD13	1.92	0.51
1:E:394:ASP:OD1	1:E:396:GLN:N	2.43	0.51
1:F:61:VAL:CG1	1:F:61:VAL:O	2.58	0.51
1:A:1061:LEU:O	1:A:1063:HIS:N	2.43	0.51
1:F:485:ILE:O	1:F:486:ALA:C	2.48	0.51
1:E:1135:VAL:O	1:E:1136:VAL:C	2.44	0.51
1:A:1016:ALA:O	1:A:1017:ASN:HB2	2.08	0.51
1:A:845:SER:O	1:A:848:ALA:HB3	2.10	0.51
1:F:855:THR:O	1:F:855:THR:HG22	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1092:ILE:O	1:B:1092:ILE:HG22	2.10	0.51
1:D:281:PHE:O	1:D:285:VAL:HG23	2.09	0.51
1:F:629:THR:O	1:F:632:ILE:N	2.42	0.51
1:D:679:HIS:NE2	1:D:687:MET:O	2.42	0.51
1:B:485:ILE:O	1:B:486:ALA:C	2.48	0.51
1:E:447:LEU:CD2	1:E:674:ALA:HA	2.30	0.51
2:L:114:THR:HG23	2:L:115:HIS:N	2.26	0.51
1:A:896:PRO:HG2	1:C:1226:GLY:CA	2.26	0.51
1:C:449:ARG:O	1:C:450:ARG:O	2.28	0.51
2:J:102:ARG:C	2:J:103:LEU:HD23	2.30	0.51
2:J:317:LYS:HZ2	2:J:345:ILE:HG21	1.76	0.51
1:C:707:ILE:HA	1:C:710:LYS:HD2	1.92	0.51
2:G:114:THR:HG23	2:G:115:HIS:N	2.26	0.51
2:K:320:TYR:CD2	2:K:346:TRP:CG	2.98	0.51
1:E:244:MET:HA	1:E:247:HIS:HB2	1.92	0.51
1:E:248:GLU:C	1:E:250:ARG:H	2.13	0.51
1:F:447:LEU:O	1:F:451:GLN:HG3	2.10	0.51
2:G:174:HIS:HD2	2:G:176:TYR:CE1	2.29	0.51
2:G:68:TRP:HB2	2:G:80:ALA:HB1	1.91	0.51
2:K:249:LYS:HE2	2:K:258:ILE:HD13	1.91	0.51
2:J:271:VAL:HG11	2:J:284:SER:O	2.09	0.51
1:A:731:SER:HA	1:A:747:SER:CA	2.40	0.51
2:I:317:LYS:HE3	2:I:345:ILE:CB	2.40	0.51
2:I:349:ALA:HB3	2:I:350:PRO:CD	2.39	0.51
1:B:1438:ARG:O	1:B:1441:ALA:N	2.43	0.51
2:I:153:ILE:CG1	2:I:220:VAL:HG13	2.40	0.51
2:I:97:ILE:CD1	2:I:450:VAL:HG11	2.39	0.51
2:J:220:VAL:CG2	8:J:484:FAD:N6A	2.55	0.51
1:F:1438:ARG:O	1:F:1441:ALA:N	2.43	0.51
2:G:350:PRO:HD2	2:G:374:ALA:CA	2.39	0.51
1:C:1113:CYS:O	1:C:1115:VAL:N	2.42	0.51
2:L:416:LYS:NZ	2:L:416:LYS:HB2	2.24	0.51
2:L:449:LEU:CD2	2:L:452:TRP:CD2	2.93	0.51
2:I:371:VAL:HG21	2:I:386:SER:CB	2.39	0.51
1:F:295:LYS:HE2	1:F:299:VAL:HG12	1.92	0.51
1:D:1075:THR:CG2	1:D:1076:GLY:N	2.73	0.51
1:A:294:VAL:O	1:A:295:LYS:C	2.47	0.51
1:A:24:ALA:O	1:A:27:ALA:N	2.27	0.51
1:D:621:ILE:HG12	1:D:657:VAL:CG1	2.40	0.51
1:B:621:ILE:HG12	1:B:657:VAL:CG1	2.40	0.51
1:C:572:THR:CG2	1:C:573:PHE:N	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1447:TRP:CD2	1:D:1451:VAL:HG22	2.45	0.51
1:A:94:GLU:HG2	1:A:104:ILE:HD13	1.92	0.51
1:C:312:ASN:HB2	1:C:411:ALA:CB	2.41	0.51
1:B:136:ASN:OD1	1:B:136:ASN:N	2.38	0.51
2:I:45:ASN:HD21	2:I:45:ASN:H	1.57	0.51
1:F:1432:VAL:O	1:F:1436:GLN:N	2.40	0.51
1:D:1338:ALA:O	1:D:1340:GLY:N	2.43	0.51
1:E:1011:ALA:O	1:E:1014:ALA:HB3	2.09	0.51
1:A:1226:GLY:HA3	1:E:896:PRO:HB2	1.93	0.51
1:C:896:PRO:HB2	1:E:1226:GLY:HA3	1.93	0.51
2:L:290:LYS:HB3	2:L:393:ASP:OD2	2.11	0.51
2:L:377:ARG:O	2:L:378:GLN:HB3	2.10	0.51
2:I:114:THR:HG23	2:I:115:HIS:N	2.26	0.51
2:K:320:TYR:CD2	2:K:346:TRP:CE2	2.98	0.51
2:G:96:ARG:NE	2:G:199:VAL:HG21	2.25	0.51
2:G:71:LEU:HD13	2:G:72:THR:N	2.24	0.51
2:K:28:PHE:CZ	2:K:285:LEU:HD21	2.46	0.51
2:K:144:ARG:HG2	2:K:145:GLU:N	2.25	0.51
2:K:166:LEU:HD23	2:K:461:ALA:CB	2.36	0.51
2:K:32:TYR:CE2	2:K:194:LYS:HB3	2.46	0.51
2:K:71:LEU:CD2	2:K:79:GLU:HB2	2.40	0.51
2:H:322:ARG:HG3	2:H:326:ASN:OD1	2.09	0.51
2:I:144:ARG:HG2	2:I:145:GLU:N	2.25	0.51
2:I:449:LEU:CD2	2:I:451:VAL:HG13	2.27	0.51
2:J:147:GLY:HA2	2:J:171:TYR:HD1	1.75	0.51
2:J:174:HIS:HD2	2:J:176:TYR:CE1	2.29	0.51
2:I:28:PHE:CZ	2:I:285:LEU:HD21	2.46	0.51
2:L:144:ARG:HH11	2:L:169:LYS:HA	1.74	0.51
2:L:174:HIS:HD2	2:L:176:TYR:CE1	2.29	0.51
2:L:97:ILE:HD11	2:L:450:VAL:HB	1.92	0.51
1:B:1229:MET:CA	1:D:877:ARG:CG	2.78	0.51
1:D:496:HIS:O	1:D:653:HIS:HE1	1.94	0.51
1:C:281:PHE:O	1:C:285:VAL:HG23	2.11	0.51
1:D:40:THR:O	1:D:40:THR:CG2	2.57	0.51
1:E:893:ARG:HG2	1:E:903:TRP:CB	2.40	0.51
2:J:278:GLU:H	2:J:278:GLU:CD	2.13	0.51
1:E:209:GLN:HG3	1:E:210:ARG:H	1.76	0.51
1:C:657:VAL:O	1:C:658:LEU:C	2.48	0.51
1:B:1161:VAL:CG1	1:B:1161:VAL:O	2.57	0.51
1:C:1417:VAL:CG1	1:C:1418:GLY:N	2.73	0.51
1:A:1354:THR:HA	1:A:1372:THR:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:45:ASN:HD21	2:H:45:ASN:H	1.57	0.51
1:D:61:VAL:CG1	1:D:61:VAL:O	2.58	0.51
1:A:449:ARG:O	1:A:450:ARG:O	2.28	0.51
1:A:776:GLY:O	1:A:782:ARG:HD2	2.10	0.51
2:J:114:THR:HG23	2:J:115:HIS:N	2.26	0.51
1:C:763:ALA:O	1:C:767:ASN:HB2	2.11	0.51
1:C:776:GLY:O	1:C:782:ARG:HD2	2.11	0.51
1:F:1452:THR:HG22	1:F:1453:LYS:HG3	1.91	0.51
1:B:1447:TRP:CD2	1:B:1451:VAL:HG22	2.45	0.51
1:C:899:ASN:O	1:E:1263:HIS:CE1	2.62	0.51
1:A:1401:LEU:N	1:A:1402:PRO:HD2	2.26	0.51
2:L:350:PRO:HD2	2:L:374:ALA:HB2	1.93	0.51
2:J:320:TYR:CD2	2:J:346:TRP:CE2	2.98	0.51
2:H:54:PHE:HB3	2:H:107:ASN:CB	2.36	0.51
1:A:707:ILE:HA	1:A:710:LYS:HD2	1.92	0.51
1:B:781:PHE:CD2	2:G:57:VAL:HG21	2.45	0.51
2:K:350:PRO:HD2	2:K:374:ALA:HB2	1.92	0.51
1:C:556:ARG:O	1:C:557:ALA:C	2.44	0.51
2:H:28:PHE:CZ	2:H:285:LEU:HD21	2.46	0.51
2:G:91:PRO:HD2	2:G:203:ARG:HH22	1.76	0.51
2:K:174:HIS:HD2	2:K:176:TYR:CE1	2.29	0.51
2:K:77:LEU:CA	2:K:127:ILE:HD11	2.40	0.51
2:H:350:PRO:HD2	2:H:374:ALA:HB2	1.93	0.51
2:I:174:HIS:HD2	2:I:176:TYR:CE1	2.29	0.51
2:J:138:LYS:NZ	2:J:206:LEU:HB3	2.26	0.51
2:G:317:LYS:HZ2	2:G:345:ILE:HG21	1.74	0.51
2:L:174:HIS:CD2	2:L:176:TYR:CE1	2.99	0.51
2:L:71:LEU:CD2	2:L:79:GLU:HB2	2.40	0.51
2:L:28:PHE:CZ	2:L:285:LEU:HD21	2.46	0.51
1:B:496:HIS:O	1:B:653:HIS:HE1	1.94	0.51
2:I:417:VAL:CG1	2:I:421:GLY:HA2	2.40	0.51
1:D:528:ASN:HB3	1:D:542:LEU:HD22	1.91	0.51
1:F:1075:THR:CG2	1:F:1076:GLY:N	2.73	0.51
1:A:404:ARG:CB	1:A:405:GLU:OE1	2.51	0.51
1:A:389:GLU:HA	1:A:403:ASP:OD2	2.09	0.51
1:E:317:ILE:CG2	1:E:321:ASN:HD21	2.19	0.51
1:D:985:TYR:CE1	1:D:1207:VAL:HG11	2.44	0.51
1:A:73:VAL:O	1:A:172:LEU:HA	2.09	0.51
1:C:1274:GLN:HE21	1:C:1293:ASN:HB3	1.74	0.51
1:E:393:VAL:HG12	1:E:394:ASP:N	2.23	0.51
1:D:628:HIS:O	1:D:629:THR:C	2.47	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:628:HIS:O	1:F:629:THR:C	2.47	0.51
2:K:445:ARG:HG2	2:K:445:ARG:O	2.09	0.51
1:D:1406:ASN:OD1	1:D:1406:ASN:C	2.48	0.51
1:E:1112:THR:O	2:L:112:GLN:NE2	2.40	0.51
1:E:776:GLY:O	1:E:782:ARG:HD2	2.11	0.51
1:C:1220:ARG:HG3	1:C:1224:GLU:CG	2.38	0.51
1:B:1002:SER:HB2	1:B:1048:GLY:HA3	1.93	0.51
1:B:876:ASN:ND2	1:F:1227:GLU:OE2	2.43	0.51
1:E:659:ILE:HA	1:E:663:ALA:HB3	1.91	0.51
1:B:782:ARG:CB	2:G:56:GLN:NE2	2.41	0.51
2:G:469:LYS:HD2	2:G:476:VAL:CB	2.39	0.51
2:K:190:ILE:HG22	2:K:195:LEU:HB3	1.93	0.51
2:I:449:LEU:CD2	2:I:452:TRP:CD2	2.93	0.51
2:I:71:LEU:CD2	2:I:79:GLU:HB2	2.40	0.51
2:J:469:LYS:CD	2:J:476:VAL:HB	2.38	0.51
2:G:102:ARG:C	2:G:103:LEU:HD23	2.30	0.51
2:G:271:VAL:HG11	2:G:284:SER:O	2.09	0.51
2:L:190:ILE:HG22	2:L:195:LEU:HB3	1.93	0.51
2:L:68:TRP:HB2	2:L:80:ALA:HB1	1.91	0.51
1:F:496:HIS:O	1:F:653:HIS:HE1	1.94	0.51
2:H:32:TYR:CE2	2:H:194:LYS:HB3	2.46	0.51
2:H:68:TRP:CZ3	2:H:84:SER:CB	2.93	0.51
1:E:353:MET:HE3	1:E:366:GLY:O	2.07	0.51
1:E:404:ARG:CB	1:E:405:GLU:OE1	2.51	0.51
1:B:696:TYR:CZ	1:B:700:ILE:CD1	2.94	0.51
2:G:197:LYS:HZ3	2:G:275:ASP:HB3	1.76	0.51
2:J:197:LYS:HZ3	2:J:275:ASP:HB3	1.73	0.51
1:A:594:GLU:O	1:A:595:ASP:C	2.48	0.51
1:E:1274:GLN:HE21	1:E:1293:ASN:HB3	1.74	0.51
1:C:369:THR:O	1:C:371:MET:N	2.43	0.51
1:A:394:ASP:OD1	1:A:396:GLN:N	2.43	0.51
1:C:394:ASP:OD1	1:C:396:GLN:N	2.43	0.51
2:K:45:ASN:HD21	2:K:45:ASN:H	1.57	0.51
1:C:1061:LEU:O	1:C:1063:HIS:N	2.43	0.51
1:B:485:ILE:O	1:B:488:LEU:N	2.43	0.51
1:B:269:VAL:HG23	1:B:270:GLY:N	2.21	0.51
1:F:679:HIS:NE2	1:F:687:MET:O	2.42	0.51
1:B:5:PHE:CE2	1:B:365:GLY:HA3	2.45	0.51
1:C:855:THR:O	1:C:855:THR:HG22	2.10	0.51
1:F:1092:ILE:O	1:F:1092:ILE:HG22	2.10	0.51
2:J:445:ARG:HG2	2:J:445:ARG:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5:PHE:CE2	1:D:365:GLY:HA3	2.45	0.51
1:D:494:GLY:O	1:D:495:LEU:C	2.48	0.51
1:E:660:GLY:HA2	1:E:721:GLY:H	1.74	0.51
1:C:670:LEU:O	1:C:670:LEU:CD2	2.53	0.51
2:L:102:ARG:C	2:L:103:LEU:HD23	2.30	0.51
2:L:320:TYR:CD2	2:L:346:TRP:CE2	2.98	0.51
1:C:1401:LEU:N	1:C:1402:PRO:HD2	2.26	0.51
2:J:302:MET:HG3	2:J:333:GLU:OE2	2.11	0.51
1:F:781:PHE:CD2	2:I:57:VAL:HG21	2.45	0.51
1:E:227:MET:CE	1:E:282:GLU:CG	2.88	0.51
2:K:317:LYS:HE3	2:K:345:ILE:CB	2.40	0.51
2:K:367:ILE:HD13	2:K:368:HIS:O	2.10	0.51
1:A:248:GLU:C	1:A:250:ARG:H	2.13	0.51
1:B:763:ALA:O	1:B:764:THR:C	2.48	0.51
2:H:250:ALA:CB	2:H:251:PRO:HD2	2.35	0.51
2:G:201:GLU:O	2:G:204:VAL:HG13	2.11	0.51
2:G:230:ARG:NH2	2:G:434:MET:HE1	2.26	0.51
2:G:71:LEU:CD2	2:G:79:GLU:HB2	2.40	0.51
1:B:1401:LEU:HB3	1:B:1402:PRO:HD3	1.91	0.51
2:J:28:PHE:CZ	2:J:285:LEU:HD21	2.46	0.51
1:D:1376:LEU:HB3	1:D:1439:PHE:HE2	1.75	0.51
2:H:302:MET:HG3	2:H:333:GLU:OE2	2.11	0.51
2:I:32:TYR:CE2	2:I:194:LYS:CB	2.94	0.51
2:I:138:LYS:NZ	2:I:206:LEU:HB3	2.26	0.51
2:L:150:VAL:HG12	2:L:172:GLU:O	2.11	0.51
2:L:416:LYS:HZ2	2:L:433:ASN:HB2	1.76	0.51
2:L:96:ARG:NE	2:L:199:VAL:HG21	2.25	0.51
2:L:181:ARG:HH11	2:L:181:ARG:C	2.14	0.51
1:A:236:THR:HG22	1:A:328:ASP:N	2.26	0.51
2:K:417:VAL:CG1	2:K:421:GLY:HA2	2.40	0.51
1:D:419:TRP:O	1:D:540:THR:CG2	2.59	0.51
1:F:1316:GLU:O	1:F:1317:THR:C	2.46	0.51
1:D:1146:VAL:O	1:D:1147:ARG:C	2.46	0.51
1:D:302:ALA:CB	1:D:347:ARG:NH1	2.73	0.51
2:K:276:THR:HG22	2:K:277:VAL:HG23	1.91	0.51
2:G:278:GLU:H	2:G:278:GLU:CD	2.13	0.51
1:A:572:THR:CG2	1:A:573:PHE:N	2.73	0.51
1:F:1058:LEU:CD2	1:F:1058:LEU:O	2.57	0.51
2:H:445:ARG:O	2:H:445:ARG:HG2	2.10	0.51
1:E:1385:ALA:HB2	1:E:1406:ASN:HD22	1.74	0.51
1:A:896:PRO:HB2	1:C:1226:GLY:HA3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1077:ARG:HG2	1:B:1078:ASP:N	2.26	0.51
2:L:302:MET:HG3	2:L:333:GLU:OE2	2.11	0.51
2:L:322:ARG:HD2	2:L:349:ALA:CB	2.38	0.51
2:J:317:LYS:HE3	2:J:345:ILE:CB	2.40	0.51
2:J:350:PRO:HD2	2:J:374:ALA:HB2	1.92	0.51
2:J:388:PHE:CE2	2:J:390:VAL:HG13	2.46	0.51
1:B:254:PRO:O	1:B:257:GLY:N	2.37	0.51
1:F:1045:TRP:O	1:F:1046:GLU:C	2.44	0.51
1:D:1183:LEU:O	1:D:1187:LEU:HG	2.11	0.51
1:F:446:GLU:O	1:F:449:ARG:N	2.43	0.51
2:H:249:LYS:HG3	2:H:258:ILE:CD1	2.39	0.51
2:G:138:LYS:NZ	2:G:206:LEU:HB3	2.26	0.51
2:I:388:PHE:CE2	2:I:390:VAL:HG13	2.46	0.51
2:K:150:VAL:HG13	2:K:173:VAL:CA	2.38	0.51
2:G:404:GLU:HG3	2:G:404:GLU:O	2.09	0.51
2:I:174:HIS:CD2	2:I:176:TYR:CE1	2.99	0.51
2:I:96:ARG:NE	2:I:199:VAL:HG21	2.25	0.51
2:G:290:LYS:HB3	2:G:393:ASP:OD2	2.11	0.51
1:C:236:THR:HG22	1:C:328:ASP:N	2.26	0.51
2:L:32:TYR:CE2	2:L:194:LYS:CB	2.94	0.51
2:L:153:ILE:CG1	2:L:220:VAL:HG13	2.40	0.51
2:L:416:LYS:HE3	2:L:433:ASN:CB	2.41	0.51
2:L:68:TRP:CZ3	2:L:84:SER:CB	2.93	0.51
1:A:139:VAL:CG1	1:A:140:SER:N	2.54	0.51
2:H:144:ARG:HG2	2:H:145:GLU:N	2.25	0.51
2:H:138:LYS:NZ	2:H:206:LEU:HB3	2.26	0.51
1:B:704:LEU:C	1:B:706:LYS:H	2.14	0.51
1:C:345:MET:CG	1:C:346:ASP:N	2.55	0.51
1:B:295:LYS:HE2	1:B:299:VAL:HG12	1.92	0.51
1:D:696:TYR:CZ	1:D:700:ILE:CD1	2.94	0.51
1:A:754:ILE:O	1:A:755:GLN:C	2.48	0.51
1:C:973:ASP:OD2	1:C:1298:LYS:CE	2.54	0.51
1:D:621:ILE:HG13	1:D:658:LEU:HD12	1.93	0.51
1:C:893:ARG:HG2	1:C:903:TRP:CB	2.40	0.51
1:C:1289:MET:HE2	1:C:1289:MET:N	2.26	0.51
1:F:1326:THR:O	1:F:1326:THR:HG22	2.10	0.51
1:B:351:ARG:HH12	1:B:978:GLU:CD	2.14	0.51
1:D:1245:ARG:O	1:D:1245:ARG:HG3	2.10	0.51
1:F:1323:ILE:HD12	1:F:1327:VAL:HG21	1.91	0.51
1:D:485:ILE:O	1:D:486:ALA:C	2.48	0.51
1:E:133:VAL:CG1	1:E:134:GLY:N	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:494:GLY:O	1:F:495:LEU:C	2.48	0.51
1:B:679:HIS:NE2	1:B:687:MET:O	2.42	0.51
1:D:1018:ALA:O	1:D:1065:VAL:HG23	2.11	0.51
1:B:1338:ALA:O	1:B:1340:GLY:N	2.43	0.51
1:C:791:GLU:O	1:C:795:ILE:HG13	2.11	0.51
1:E:452:GLN:NE2	1:E:764:THR:HG21	2.21	0.51
1:A:1219:ALA:O	1:A:1220:ARG:C	2.47	0.51
2:J:377:ARG:O	2:J:378:GLN:HB3	2.10	0.51
2:J:353:PHE:CE1	2:J:382:VAL:HG12	2.44	0.51
1:E:705:LEU:N	1:E:705:LEU:HD23	2.26	0.51
1:F:260:MET:O	1:F:261:GLN:C	2.48	0.51
1:F:1184:ASN:CB	1:F:1185:PRO:CD	2.80	0.51
1:A:359:THR:HG23	1:A:378:GLN:CB	2.41	0.51
1:D:447:LEU:O	1:D:451:GLN:HG3	2.10	0.51
2:G:190:ILE:HG22	2:G:195:LEU:HB3	1.93	0.51
2:K:404:GLU:HG3	2:K:404:GLU:O	2.09	0.51
1:C:731:SER:HA	1:C:747:SER:CA	2.40	0.51
2:I:320:TYR:CD2	2:I:346:TRP:CE2	2.98	0.51
2:I:350:PRO:HD2	2:I:374:ALA:HB2	1.92	0.51
2:K:146:LEU:N	2:K:146:LEU:HD22	2.26	0.51
2:K:147:GLY:HA2	2:K:171:TYR:HD1	1.75	0.51
2:K:416:LYS:HE3	2:K:433:ASN:CB	2.41	0.51
2:K:97:ILE:HD11	2:K:450:VAL:HB	1.92	0.51
2:G:181:ARG:HH11	2:G:181:ARG:C	2.14	0.51
2:H:181:ARG:C	2:H:182:MET:HE3	2.31	0.51
2:J:96:ARG:NE	2:J:199:VAL:HG21	2.25	0.51
2:G:377:ARG:O	2:G:378:GLN:HB3	2.10	0.51
2:L:415:LEU:CD2	2:L:432:THR:HG23	2.41	0.51
2:I:418:THR:CB	2:I:424:LEU:HD11	2.23	0.51
1:C:1391:MET:HE1	1:C:1458:VAL:HG21	1.91	0.51
1:D:1051:GLU:O	1:D:1052:VAL:C	2.46	0.51
1:C:754:ILE:O	1:C:755:GLN:C	2.48	0.51
1:F:569:ILE:HG22	1:F:589:ILE:HG22	1.93	0.51
1:C:496:HIS:O	1:C:653:HIS:CE1	2.61	0.51
1:C:957:ARG:HD2	1:C:965:LEU:CD1	2.41	0.51
1:A:957:ARG:HD2	1:A:965:LEU:CD1	2.41	0.51
1:E:159:VAL:HG21	1:E:167:PHE:CD2	2.46	0.51
1:E:1061:LEU:O	1:E:1063:HIS:N	2.43	0.51
1:B:629:THR:O	1:B:632:ILE:N	2.42	0.51
1:C:175:ARG:HH22	1:C:203:ASP:CG	2.14	0.51
1:A:175:ARG:HH22	1:A:203:ASP:CG	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1018:ALA:O	1:F:1065:VAL:HG23	2.11	0.51
1:B:494:GLY:O	1:B:495:LEU:C	2.48	0.51
1:D:1003:ARG:HG3	1:D:1004:SER:N	2.24	0.51
1:E:780:ARG:HB3	2:L:51:GLY:O	2.11	0.51
1:A:1227:GLU:OE2	1:E:902:ASN:CB	2.53	0.51
1:A:1424:LEU:O	1:A:1425:LYS:C	2.48	0.51
1:A:1438:ARG:CZ	2:L:376:GLY:C	2.80	0.51
2:K:377:ARG:O	2:K:378:GLN:HB3	2.10	0.51
1:A:248:GLU:C	1:A:250:ARG:N	2.65	0.51
1:F:746:ILE:CG2	1:F:1182:ASP:HB3	2.22	0.51
2:G:146:LEU:N	2:G:146:LEU:HD22	2.26	0.51
2:G:174:HIS:CD2	2:G:176:TYR:CE1	2.99	0.51
2:J:181:ARG:C	2:J:181:ARG:HH11	2.14	0.51
2:I:367:ILE:HD13	2:I:368:HIS:O	2.10	0.51
1:D:1401:LEU:HB3	1:D:1402:PRO:HD3	1.91	0.51
2:K:150:VAL:HG12	2:K:172:GLU:O	2.11	0.51
2:K:32:TYR:CE2	2:K:194:LYS:CB	2.94	0.51
2:K:469:LYS:CD	2:K:476:VAL:HB	2.38	0.51
2:K:77:LEU:HD21	2:K:126:TYR:CD2	2.46	0.51
2:H:102:ARG:C	2:H:103:LEU:HD23	2.30	0.51
2:I:415:LEU:CD2	2:I:432:THR:HG23	2.41	0.51
2:J:77:LEU:CA	2:J:127:ILE:HD11	2.39	0.51
2:J:31:ILE:HD12	2:J:31:ILE:C	2.31	0.51
2:J:90:PHE:CZ	2:J:160:LEU:CB	2.94	0.51
2:L:138:LYS:NZ	2:L:206:LEU:HB3	2.26	0.51
2:L:90:PHE:CZ	2:L:160:LEU:CB	2.94	0.51
2:L:91:PRO:HD2	2:L:203:ARG:HH22	1.76	0.51
2:H:146:LEU:HD22	2:H:146:LEU:N	2.26	0.51
2:H:201:GLU:O	2:H:204:VAL:HG13	2.11	0.51
2:H:415:LEU:CD2	2:H:432:THR:HG23	2.41	0.51
2:H:43:GLN:NE2	2:H:123:VAL:HG13	2.26	0.51
2:H:449:LEU:CD2	2:H:452:TRP:CD2	2.93	0.51
2:H:71:LEU:CD2	2:H:79:GLU:HB2	2.40	0.51
2:L:417:VAL:CG1	2:L:421:GLY:HA2	2.40	0.51
1:D:295:LYS:HE2	1:D:299:VAL:HG12	1.92	0.51
1:B:236:THR:HG22	1:B:328:ASP:N	2.24	0.51
1:A:295:LYS:HE2	1:A:299:VAL:HG12	1.90	0.51
1:D:1077:ARG:HG2	1:D:1078:ASP:N	2.26	0.51
1:B:437:GLY:O	1:B:438:GLU:C	2.48	0.51
1:D:1207:VAL:HG13	1:D:1208:PRO:HD2	1.93	0.51
1:E:621:ILE:HG12	1:E:657:VAL:HG12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:134:GLN:CB	2:G:136:TRP:CD1	2.94	0.51
1:F:24:ALA:C	1:F:26:LYS:N	2.65	0.51
1:A:159:VAL:HG21	1:A:167:PHE:CD2	2.46	0.51
1:D:1092:ILE:O	1:D:1092:ILE:HG22	2.10	0.51
1:B:131:ILE:O	1:B:131:ILE:HG23	2.09	0.51
1:A:1385:ALA:HB2	1:A:1406:ASN:HD22	1.74	0.51
1:F:337:ASP:OD1	1:F:337:ASP:C	2.49	0.51
1:A:133:VAL:CG1	1:A:134:GLY:N	2.74	0.51
1:C:780:ARG:HB3	2:K:52:VAL:N	2.26	0.51
1:B:1183:LEU:O	1:B:1187:LEU:HG	2.11	0.51
2:L:367:ILE:HD13	2:L:368:HIS:O	2.10	0.51
1:F:782:ARG:HH22	2:I:51:GLY:CA	1.16	0.51
1:E:1401:LEU:N	1:E:1402:PRO:HD2	2.26	0.51
1:E:1424:LEU:O	1:E:1425:LYS:C	2.49	0.51
2:K:331:GLN:HA	2:K:334:VAL:HG22	1.93	0.51
2:K:302:MET:HG3	2:K:333:GLU:OE2	2.11	0.51
1:E:1438:ARG:CZ	2:K:376:GLY:C	2.80	0.51
1:C:244:MET:C	1:C:246:ALA:N	2.65	0.51
1:D:451:GLN:OE1	1:D:773:LEU:HD11	2.11	0.51
2:H:249:LYS:HE2	2:H:258:ILE:HD13	1.91	0.51
2:G:77:LEU:HD21	2:G:126:TYR:CD2	2.46	0.51
2:G:32:TYR:CE2	2:G:194:LYS:HB3	2.46	0.51
2:G:416:LYS:HE3	2:G:433:ASN:CB	2.41	0.51
2:K:32:TYR:CD1	2:K:34:ARG:CD	2.94	0.51
2:K:71:LEU:HD13	2:K:72:THR:N	2.24	0.51
2:G:28:PHE:CZ	2:G:285:LEU:HD21	2.46	0.51
2:L:166:LEU:HD23	2:L:461:ALA:CB	2.36	0.51
2:L:201:GLU:O	2:L:204:VAL:HG13	2.11	0.51
2:L:77:LEU:HD21	2:L:126:TYR:CD2	2.46	0.51
2:H:77:LEU:HD21	2:H:126:TYR:CD2	2.46	0.51
2:H:153:ILE:CG1	2:H:220:VAL:HG13	2.40	0.51
2:H:174:HIS:HD2	2:H:176:TYR:CE1	2.29	0.51
2:H:32:TYR:CE2	2:H:194:LYS:CB	2.94	0.51
2:H:90:PHE:CZ	2:H:160:LEU:CB	2.94	0.51
2:K:406:LEU:H	2:K:406:LEU:CD2	2.21	0.51
2:J:417:VAL:CG1	2:J:421:GLY:HA2	2.40	0.51
1:D:505:GLN:NE2	1:D:1000:LEU:CB	2.59	0.51
1:B:911:ALA:O	1:B:912:SER:C	2.50	0.51
1:C:342:VAL:HG11	1:C:390:MET:CE	2.37	0.51
1:E:281:PHE:O	1:E:285:VAL:HG23	2.10	0.51
2:J:150:VAL:HG12	2:J:172:GLU:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:207:TYR:HD1	1:C:207:TYR:N	2.08	0.51
1:F:536:ASP:O	1:F:536:ASP:OD1	2.28	0.51
1:D:536:ASP:OD1	1:D:536:ASP:O	2.28	0.51
1:A:1:CYS:HB3	3:A:2473:OMT:CE	2.41	0.51
1:A:1:CYS:HB3	3:A:2473:OMT:HE3	1.93	0.51
1:E:657:VAL:O	1:E:658:LEU:C	2.48	0.51
2:L:134:GLN:CB	2:L:136:TRP:CD1	2.94	0.51
1:C:159:VAL:HG21	1:C:167:PHE:CD2	2.46	0.51
1:E:175:ARG:HH22	1:E:203:ASP:CG	2.14	0.51
1:E:1250:VAL:HG13	1:E:1254:PHE:HD2	1.75	0.51
1:B:197:ASP:OD1	1:B:199:ARG:HB2	2.12	0.51
1:E:1253:LYS:O	1:E:1253:LYS:HG3	2.11	0.51
1:D:1460:LYS:O	1:D:1462:MET:N	2.44	0.51
1:F:5:PHE:CE2	1:F:365:GLY:HA3	2.46	0.51
1:E:845:SER:O	1:E:848:ALA:HB3	2.10	0.51
1:B:1131:THR:CG2	1:B:1133:GLU:N	2.72	0.50
2:J:322:ARG:HD3	2:J:349:ALA:CA	2.39	0.50
1:E:521:SER:OG	1:E:522:LEU:N	2.45	0.50
1:D:556:ARG:O	1:D:557:ALA:C	2.48	0.50
1:C:359:THR:HG23	1:C:378:GLN:CB	2.41	0.50
2:G:147:GLY:HA2	2:G:171:TYR:HD1	1.75	0.50
2:G:153:ILE:CG1	2:G:220:VAL:HG13	2.40	0.50
1:E:1349:ARG:HH11	1:E:1349:ARG:CG	2.22	0.50
2:I:302:MET:HG3	2:I:333:GLU:OE2	2.11	0.50
2:K:415:LEU:CD2	2:K:432:THR:HG23	2.41	0.50
2:H:367:ILE:HD13	2:H:368:HIS:O	2.10	0.50
2:J:201:GLU:O	2:J:204:VAL:HG13	2.11	0.50
2:J:431:MET:CG	2:J:438:PHE:CE2	2.94	0.50
2:G:367:ILE:HD13	2:G:368:HIS:O	2.10	0.50
2:L:429:THR:HG21	2:L:431:MET:HE2	1.93	0.50
2:H:32:TYR:CD1	2:H:34:ARG:CD	2.94	0.50
2:H:97:ILE:HD11	2:H:450:VAL:HB	1.92	0.50
1:C:526:LEU:H	1:C:526:LEU:CD1	2.17	0.50
1:F:1088:GLU:HG2	1:F:1162:ILE:HD13	1.92	0.50
1:B:838:VAL:HG12	1:B:839:PRO:CD	2.40	0.50
1:A:893:ARG:HG2	1:A:903:TRP:CB	2.40	0.50
1:D:511:ILE:CG2	1:D:512:ASP:N	2.74	0.50
1:A:997:THR:CG2	1:A:998:VAL:N	2.73	0.50
1:B:211:TYR:HD1	1:B:212:SER:N	2.08	0.50
1:C:1054:GLN:O	1:C:1055:VAL:C	2.49	0.50
1:E:369:THR:O	1:E:371:MET:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:30:HIS:ND1	1:E:1238:THR:HA	2.26	0.50
1:C:339:ARG:HG3	1:C:396:GLN:HG3	1.93	0.50
1:F:485:ILE:O	1:F:488:LEU:N	2.43	0.50
1:F:864:SER:HG	1:F:867:ALA:H	1.59	0.50
1:F:1003:ARG:HG3	1:F:1004:SER:N	2.24	0.50
1:D:1407:ASP:O	1:D:1408:GLU:C	2.50	0.50
1:E:492:TYR:CG	1:E:761:GLN:HG2	2.47	0.50
1:A:1220:ARG:HG3	1:A:1224:GLU:CG	2.38	0.50
1:C:1440:ALA:O	1:C:1443:ILE:N	2.42	0.50
1:A:509:PRO:HB3	1:A:975:TYR:HD1	1.77	0.50
1:E:1415:ILE:CG2	1:E:1421:GLU:HB2	2.41	0.50
1:C:244:MET:HA	1:C:247:HIS:HB2	1.92	0.50
1:F:1077:ARG:HG2	1:F:1078:ASP:N	2.26	0.50
2:G:31:ILE:C	2:G:31:ILE:HD12	2.31	0.50
2:G:449:LEU:CD2	2:G:452:TRP:CD2	2.93	0.50
2:G:90:PHE:CZ	2:G:160:LEU:CB	2.94	0.50
2:K:153:ILE:CG1	2:K:220:VAL:HG13	2.40	0.50
2:K:138:LYS:NZ	2:K:206:LEU:HB3	2.26	0.50
2:K:31:ILE:HD12	2:K:31:ILE:C	2.31	0.50
2:K:426:ASP:HB3	2:K:429:THR:OG1	2.12	0.50
2:H:388:PHE:CE2	2:H:390:VAL:HG13	2.46	0.50
2:I:90:PHE:CZ	2:I:160:LEU:CB	2.94	0.50
2:I:190:ILE:HG22	2:I:195:LEU:HB3	1.93	0.50
2:I:230:ARG:NH2	2:I:434:MET:HE1	2.26	0.50
2:I:77:LEU:HD21	2:I:126:TYR:CD2	2.46	0.50
2:J:32:TYR:CD1	2:J:34:ARG:CD	2.94	0.50
1:A:143:GLN:NE2	1:A:143:GLN:O	2.41	0.50
2:H:174:HIS:CD2	2:H:176:TYR:CE1	2.99	0.50
1:D:850:ARG:HD2	1:D:878:ILE:HD12	1.93	0.50
1:B:1088:GLU:HG2	1:B:1162:ILE:HD13	1.92	0.50
1:B:302:ALA:CB	1:B:347:ARG:NH1	2.73	0.50
1:D:1102:CYS:SG	6:D:2476:F3S:S1	3.06	0.50
1:B:175:ARG:NH1	1:B:175:ARG:HG3	2.23	0.50
1:D:1216:VAL:HG11	1:D:1249:MET:HE1	1.93	0.50
1:C:1:CYS:HB3	3:C:2473:OMT:CE	2.41	0.50
1:E:1:CYS:HB3	3:E:2473:OMT:HE3	1.93	0.50
1:E:94:GLU:HG2	1:E:104:ILE:HD13	1.92	0.50
1:A:339:ARG:HG3	1:A:396:GLN:HG3	1.93	0.50
1:F:846:ILE:O	1:F:847:THR:C	2.48	0.50
1:E:243:TRP:HA	1:E:243:TRP:CE3	2.47	0.50
1:A:1110:SER:C	1:A:1112:THR:HG23	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:114:THR:HG23	2:K:115:HIS:N	2.26	0.50
2:L:388:PHE:CE2	2:L:390:VAL:HG13	2.46	0.50
1:D:782:ARG:HH22	2:H:51:GLY:CA	1.16	0.50
1:C:1184:ASN:O	1:C:1187:LEU:N	2.44	0.50
1:E:248:GLU:C	1:E:250:ARG:N	2.65	0.50
1:F:1002:SER:HB2	1:F:1048:GLY:HA3	1.93	0.50
2:J:249:LYS:HE2	2:J:258:ILE:HD13	1.91	0.50
2:I:290:LYS:HB3	2:I:393:ASP:OD2	2.11	0.50
2:K:90:PHE:CZ	2:K:160:LEU:CB	2.94	0.50
2:H:331:GLN:HA	2:H:334:VAL:HG22	1.93	0.50
2:H:181:ARG:C	2:H:181:ARG:HH11	2.14	0.50
2:I:426:ASP:HB3	2:I:429:THR:OG1	2.12	0.50
2:J:77:LEU:HD21	2:J:126:TYR:CD2	2.46	0.50
2:J:153:ILE:CG1	2:J:220:VAL:HG13	2.40	0.50
2:I:286:ASN:HB2	2:I:311:GLN:NE2	2.26	0.50
1:A:1212:ASP:OD1	1:A:1243:GLY:N	2.24	0.50
2:G:350:PRO:HD2	2:G:374:ALA:HB2	1.92	0.50
1:C:235:ASN:ND2	1:C:236:THR:HB	2.27	0.50
2:L:144:ARG:HG2	2:L:145:GLU:N	2.25	0.50
2:L:426:ASP:HB3	2:L:429:THR:OG1	2.12	0.50
2:H:190:ILE:HG22	2:H:195:LEU:HB3	1.93	0.50
2:I:181:ARG:C	2:I:181:ARG:HH11	2.14	0.50
1:B:236:THR:OG1	1:B:718:SER:HB3	2.12	0.50
1:F:911:ALA:O	1:F:912:SER:C	2.50	0.50
1:C:562:MET:HE3	1:C:566:ALA:HB2	1.92	0.50
1:A:142:GLU:N	1:A:142:GLU:CD	2.58	0.50
1:B:37:ASP:OD1	1:B:39:LYS:N	2.34	0.50
1:B:985:TYR:CE1	1:B:1207:VAL:HG11	2.45	0.50
1:A:621:ILE:HG12	1:A:657:VAL:HG12	1.93	0.50
1:A:312:ASN:HB2	1:A:411:ALA:CB	2.41	0.50
1:F:1460:LYS:O	1:F:1462:MET:N	2.44	0.50
1:E:312:ASN:HB2	1:E:411:ALA:CB	2.41	0.50
2:J:134:GLN:CB	2:J:136:TRP:CD1	2.94	0.50
1:E:61:VAL:O	1:E:61:VAL:HG12	2.07	0.50
1:B:61:VAL:O	1:B:61:VAL:CG1	2.58	0.50
1:E:791:GLU:O	1:E:795:ILE:HG13	2.11	0.50
1:D:337:ASP:C	1:D:337:ASP:OD1	2.49	0.50
1:A:896:PRO:HG2	1:C:1226:GLY:HA3	1.94	0.50
1:C:1110:SER:C	1:C:1112:THR:HG23	2.32	0.50
1:D:1289:MET:CE	1:D:1289:MET:CB	2.87	0.50
1:E:706:LYS:NZ	1:E:940:GLU:OE1	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:763:ALA:O	1:F:764:THR:C	2.48	0.50
1:B:446:GLU:O	1:B:449:ARG:N	2.43	0.50
2:H:286:ASN:HB2	2:H:311:GLN:NE2	2.26	0.50
2:G:150:VAL:HG12	2:G:172:GLU:O	2.11	0.50
2:G:150:VAL:HG13	2:G:173:VAL:CA	2.38	0.50
2:G:175:VAL:HG11	2:G:214:TYR:CG	2.47	0.50
2:G:32:TYR:CE2	2:G:194:LYS:CB	2.94	0.50
2:G:32:TYR:CD1	2:G:34:ARG:CD	2.94	0.50
2:G:426:ASP:HB3	2:G:429:THR:OG1	2.12	0.50
2:G:449:LEU:HD11	2:G:451:VAL:CG1	2.31	0.50
1:C:105:TYR:N	1:C:105:TYR:CD1	2.80	0.50
1:C:731:SER:HB2	1:C:747:SER:HB2	1.94	0.50
2:H:317:LYS:HE3	2:H:345:ILE:CB	2.40	0.50
2:I:150:VAL:HG12	2:I:172:GLU:O	2.11	0.50
2:J:174:HIS:CD2	2:J:176:TYR:CE1	2.99	0.50
2:J:43:GLN:NE2	2:J:123:VAL:HG13	2.26	0.50
2:J:468:ALA:O	2:J:471:LYS:HB2	2.12	0.50
2:J:77:LEU:HD22	2:J:130:THR:CG2	2.42	0.50
2:L:77:LEU:HD22	2:L:130:THR:CG2	2.42	0.50
2:L:249:LYS:O	2:L:250:ALA:HB3	2.11	0.50
2:H:77:LEU:HD22	2:H:130:THR:CG2	2.42	0.50
1:B:515:ARG:HD3	1:B:1367:TYR:CE1	2.40	0.50
1:B:1222:LEU:HD12	1:B:1222:LEU:C	2.24	0.50
1:E:294:VAL:O	1:E:295:LYS:C	2.47	0.50
1:E:309:THR:CG2	1:E:314:LYS:HG3	2.42	0.50
1:F:696:TYR:CZ	1:F:700:ILE:CD1	2.94	0.50
2:H:150:VAL:HG12	2:H:172:GLU:O	2.11	0.50
1:D:175:ARG:HG3	1:D:175:ARG:NH1	2.23	0.50
1:A:1054:GLN:O	1:A:1055:VAL:C	2.49	0.50
1:B:355:TYR:CD1	1:B:355:TYR:O	2.65	0.50
1:B:243:TRP:CD1	1:B:325:GLU:OE1	2.65	0.50
1:C:652:THR:HG21	1:C:703:GLY:CA	2.41	0.50
1:E:547:SER:OG	1:E:549:VAL:HB	2.11	0.50
1:E:957:ARG:HD2	1:E:965:LEU:CD1	2.41	0.50
1:B:1432:VAL:O	1:B:1436:GLN:N	2.40	0.50
1:A:805:ASP:O	1:A:805:ASP:CG	2.49	0.50
1:D:1432:VAL:O	1:D:1436:GLN:N	2.40	0.50
1:F:503:PHE:CD1	1:F:503:PHE:N	2.79	0.50
1:B:1018:ALA:O	1:B:1065:VAL:HG23	2.11	0.50
1:E:442:MET:CE	1:E:447:LEU:HA	2.41	0.50
1:A:1421:GLU:HG3	1:A:1451:VAL:HG11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:331:GLN:HA	2:L:334:VAL:HG22	1.93	0.50
1:C:1400:SER:O	1:C:1403:LEU:N	2.27	0.50
1:C:1415:ILE:CG2	1:C:1421:GLU:HB2	2.41	0.50
1:F:820:ARG:HB3	1:F:821:PRO:HD3	1.94	0.50
1:C:706:LYS:NZ	1:C:940:GLU:OE1	2.40	0.50
1:B:777:GLY:CA	2:G:52:VAL:HG11	2.37	0.50
1:B:452:GLN:HG3	1:B:764:THR:HG22	1.94	0.50
2:G:97:ILE:HD11	2:G:450:VAL:HB	1.92	0.50
2:G:468:ALA:O	2:G:471:LYS:HB2	2.12	0.50
2:I:377:ARG:O	2:I:378:GLN:HB3	2.10	0.50
2:H:388:PHE:CE2	2:H:390:VAL:CG1	2.95	0.50
2:I:55:CYS:SG	2:I:65:ILE:HD12	2.52	0.50
2:J:449:LEU:CD2	2:J:452:TRP:CD2	2.93	0.50
2:J:68:TRP:HB2	2:J:80:ALA:HB1	1.91	0.50
2:G:249:LYS:CE	2:G:258:ILE:HD13	2.42	0.50
2:H:31:ILE:HD12	2:H:31:ILE:C	2.31	0.50
2:H:431:MET:CG	2:H:438:PHE:CE2	2.94	0.50
2:H:468:ALA:O	2:H:471:LYS:HB2	2.12	0.50
1:E:1458:VAL:HG13	1:E:1459:PRO:CD	2.42	0.50
1:C:353:MET:HG3	1:C:353:MET:O	2.11	0.50
1:C:309:THR:CG2	1:C:314:LYS:HG3	2.42	0.50
1:E:1317:THR:CG2	1:E:1318:ASN:N	2.63	0.50
1:B:569:ILE:HG22	1:B:589:ILE:HG22	1.93	0.50
2:H:150:VAL:HG13	2:H:173:VAL:CA	2.38	0.50
1:A:47:HIS:HE1	1:A:176:SER:CB	2.25	0.50
1:F:1102:CYS:SG	6:F:2476:F3S:S1	3.06	0.50
1:B:1058:LEU:C	1:B:1059:ASN:HD22	2.14	0.50
1:C:209:GLN:HG3	1:C:210:ARG:H	1.76	0.50
1:E:1:CYS:SG	1:E:211:TYR:HD2	2.35	0.50
1:D:1058:LEU:C	1:D:1059:ASN:HD22	2.14	0.50
1:F:211:TYR:O	1:F:212:SER:CB	2.58	0.50
1:C:1143:ALA:O	1:C:1144:GLU:C	2.45	0.50
1:C:30:HIS:ND1	1:C:1238:THR:HA	2.26	0.50
2:H:134:GLN:CB	2:H:136:TRP:CD1	2.94	0.50
1:B:1245:ARG:O	1:B:1245:ARG:HG3	2.10	0.50
1:E:652:THR:HG21	1:E:703:GLY:CA	2.41	0.50
1:A:1149:ILE:CG2	1:A:1149:ILE:O	2.59	0.50
1:D:503:PHE:N	1:D:503:PHE:CD1	2.79	0.50
1:C:509:PRO:HB3	1:C:975:TYR:HD1	1.77	0.50
1:C:798:LEU:O	1:C:802:VAL:HG22	2.12	0.50
1:B:1227:GLU:OE2	1:D:902:ASN:CG	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:672:GLN:HG3	1:A:693:MET:HE1	1.89	0.50
1:A:492:TYR:CG	1:A:761:GLN:HG2	2.47	0.50
1:E:449:ARG:O	1:E:450:ARG:O	2.28	0.50
1:A:1230:GLN:HE21	1:A:1267:ARG:HD3	1.76	0.50
1:B:1428:ILE:HG22	1:B:1428:ILE:O	2.10	0.50
1:E:1220:ARG:HG3	1:E:1224:GLU:CG	2.38	0.50
1:C:901:ASP:CG	1:E:1228:LYS:HD3	2.32	0.50
2:L:388:PHE:CE2	2:L:390:VAL:CG1	2.95	0.50
2:J:367:ILE:HD12	2:J:369:LEU:HD11	1.93	0.50
1:F:1113:CYS:O	1:F:1114:PRO:C	2.48	0.50
2:H:114:THR:HG23	2:H:115:HIS:N	2.26	0.50
1:A:521:SER:OG	1:A:522:LEU:N	2.45	0.50
1:F:452:GLN:HG3	1:F:764:THR:HG22	1.94	0.50
2:H:249:LYS:CE	2:H:258:ILE:HD13	2.42	0.50
2:G:415:LEU:CD2	2:G:432:THR:HG23	2.41	0.50
2:K:249:LYS:CE	2:K:258:ILE:HD13	2.42	0.50
1:A:731:SER:HA	1:A:747:SER:CB	2.42	0.50
2:K:449:LEU:CD2	2:K:452:TRP:CD2	2.93	0.50
2:K:68:TRP:CZ3	2:K:84:SER:CB	2.93	0.50
2:I:43:GLN:NE2	2:I:123:VAL:HG13	2.26	0.50
2:I:169:LYS:HZ3	2:I:461:ALA:HB1	1.77	0.50
2:J:32:TYR:CE2	2:J:194:LYS:HB3	2.46	0.50
2:J:190:ILE:HG22	2:J:195:LEU:HB3	1.93	0.50
2:J:200:VAL:O	2:J:204:VAL:HG12	2.12	0.50
2:J:416:LYS:HE3	2:J:433:ASN:CB	2.41	0.50
2:L:147:GLY:HA2	2:L:171:TYR:HD1	1.75	0.50
1:F:1236:ARG:C	1:F:1238:THR:H	2.15	0.50
1:B:515:ARG:NH2	1:B:966:ILE:HB	2.16	0.50
1:E:235:ASN:ND2	1:E:236:THR:HB	2.27	0.50
2:L:371:VAL:HG21	2:L:386:SER:CB	2.39	0.50
1:A:528:ASN:HB2	1:A:542:LEU:HD22	1.90	0.50
1:C:24:ALA:C	1:C:26:LYS:N	2.65	0.50
1:B:621:ILE:HG13	1:B:658:LEU:HD12	1.93	0.50
1:B:1102:CYS:SG	6:B:2476:F3S:S1	3.06	0.50
1:B:74:GLY:HA2	1:B:172:LEU:HD13	1.92	0.50
1:D:74:GLY:HA2	1:D:172:LEU:HD13	1.92	0.50
1:B:24:ALA:C	1:B:26:LYS:N	2.65	0.50
1:A:676:ALA:O	1:A:679:HIS:N	2.45	0.50
1:C:228:LEU:HD22	1:C:278:ASP:HA	1.94	0.50
1:C:1253:LYS:HG3	1:C:1253:LYS:O	2.11	0.50
1:B:651:ASP:OD1	1:B:651:ASP:N	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1088:GLU:HG2	1:D:1162:ILE:HD13	1.92	0.50
1:C:1135:VAL:O	1:C:1136:VAL:C	2.44	0.50
1:A:1226:GLY:HA3	1:E:896:PRO:HG2	1.94	0.50
1:B:850:ARG:HD2	1:B:878:ILE:HD12	1.93	0.50
1:A:1401:LEU:CD1	1:A:1401:LEU:O	2.53	0.50
1:C:1421:GLU:HG3	1:C:1451:VAL:HG11	1.94	0.50
1:A:970:PRO:CG	1:A:970:PRO:O	2.60	0.50
1:A:1184:ASN:O	1:A:1187:LEU:N	2.44	0.50
2:K:290:LYS:HB3	2:K:393:ASP:OD2	2.11	0.50
2:K:388:PHE:CE2	2:K:390:VAL:CG1	2.95	0.50
1:D:1002:SER:HB2	1:D:1048:GLY:HA3	1.93	0.50
2:G:68:TRP:CZ3	2:G:84:SER:CB	2.93	0.50
2:K:434:MET:CB	2:K:437:VAL:HG12	2.42	0.50
2:K:468:ALA:O	2:K:471:LYS:HB2	2.12	0.50
2:K:240:THR:HG1	8:K:484:FAD:C5A	2.24	0.50
2:I:91:PRO:HD2	2:I:203:ARG:HH22	1.76	0.50
2:I:200:VAL:O	2:I:204:VAL:HG12	2.12	0.50
2:I:31:ILE:C	2:I:31:ILE:HD12	2.31	0.50
2:J:32:TYR:CE2	2:J:194:LYS:CB	2.94	0.50
2:G:292:VAL:HG22	2:G:394:LEU:CD1	2.30	0.50
2:L:43:GLN:NE2	2:L:123:VAL:HG13	2.26	0.50
2:L:146:LEU:HD22	2:L:146:LEU:N	2.26	0.50
2:L:32:TYR:CE2	2:L:194:LYS:HB3	2.46	0.50
2:H:147:GLY:HA2	2:H:171:TYR:HD1	1.75	0.50
2:H:132:TRP:HD1	2:H:202:ARG:CB	2.24	0.50
1:C:1318:ASN:H	1:C:1318:ASN:HD22	1.60	0.50
1:D:949:VAL:C	1:D:950:THR:O	2.48	0.50
1:A:281:PHE:O	1:A:285:VAL:HG23	2.11	0.50
1:E:24:ALA:C	1:E:26:LYS:N	2.65	0.50
1:B:211:TYR:O	1:B:212:SER:CB	2.58	0.50
1:C:1417:VAL:HG12	1:C:1418:GLY:N	2.27	0.50
1:F:355:TYR:CD1	1:F:355:TYR:O	2.65	0.50
1:E:339:ARG:HG3	1:E:396:GLN:HG3	1.93	0.50
1:D:797:THR:HG23	1:D:812:LYS:HE2	1.94	0.50
1:C:1250:VAL:HG13	1:C:1254:PHE:HD2	1.75	0.50
1:D:269:VAL:HG23	1:D:270:GLY:N	2.21	0.50
1:C:133:VAL:CG1	1:C:134:GLY:N	2.74	0.50
1:D:875:MET:CE	1:D:1139:PHE:HE2	2.25	0.50
1:A:763:ALA:O	1:A:767:ASN:HB2	2.11	0.50
1:A:782:ARG:HG2	2:J:53:PRO:HD2	0.55	0.50
1:B:877:ARG:CG	1:F:1229:MET:CA	2.78	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1442:GLU:OE2	2:J:374:ALA:C	2.50	0.50
1:D:1104:MET:C	2:H:54:PHE:CZ	2.81	0.50
1:E:969:PRO:HD2	1:E:970:PRO:CD	2.42	0.50
1:C:969:PRO:HD2	1:C:970:PRO:CD	2.42	0.50
1:B:782:ARG:HH22	2:G:51:GLY:CA	1.16	0.50
2:K:132:TRP:HD1	2:K:202:ARG:CB	2.24	0.50
2:K:174:HIS:CD2	2:K:176:TYR:CE1	2.99	0.50
2:K:201:GLU:O	2:K:204:VAL:HG13	2.11	0.50
2:K:77:LEU:HD22	2:K:130:THR:CG2	2.41	0.50
2:H:290:LYS:HB3	2:H:393:ASP:OD2	2.11	0.50
1:B:290:THR:CG2	1:B:291:ALA:N	2.75	0.50
2:L:286:ASN:HB2	2:L:311:GLN:NE2	2.26	0.50
2:H:479:ALA:O	2:H:480:ALA:HB3	2.12	0.50
1:D:704:LEU:C	1:D:706:LYS:H	2.14	0.50
2:G:371:VAL:HG21	2:G:386:SER:CB	2.39	0.50
2:G:366:ARG:HE	2:G:391:GLN:CD	2.15	0.50
1:B:949:VAL:C	1:B:950:THR:O	2.48	0.50
1:F:838:VAL:HG12	1:F:839:PRO:CD	2.40	0.50
1:C:1:CYS:HB3	3:C:2473:OMT:HE3	1.93	0.50
1:A:1:CYS:SG	1:A:211:TYR:HD2	2.35	0.50
1:C:1054:GLN:O	1:C:1057:THR:HB	2.12	0.50
1:A:30:HIS:ND1	1:A:1238:THR:HA	2.26	0.50
1:F:243:TRP:CD1	1:F:325:GLU:OE1	2.65	0.50
1:F:351:ARG:HH12	1:F:978:GLU:CD	2.14	0.50
1:D:243:TRP:CD1	1:D:325:GLU:OE1	2.65	0.50
1:A:547:SER:OG	1:A:549:VAL:HB	2.11	0.50
1:C:547:SER:OG	1:C:549:VAL:HB	2.11	0.50
1:A:847:THR:HG21	1:C:1218:ASP:OD2	2.12	0.50
1:F:1204:ARG:O	1:F:1206:GLU:N	2.45	0.50
1:C:689:LEU:HG	1:C:689:LEU:O	2.11	0.50
1:A:1253:LYS:HG3	1:A:1253:LYS:O	2.11	0.50
1:C:243:TRP:HA	1:C:243:TRP:CE3	2.47	0.50
1:A:798:LEU:O	1:A:802:VAL:HG22	2.12	0.50
1:A:901:ASP:CG	1:C:1228:LYS:HD3	2.32	0.50
2:K:317:LYS:HZ2	2:K:345:ILE:HG21	1.77	0.50
1:B:556:ARG:O	1:B:557:ALA:C	2.48	0.50
1:F:1183:LEU:O	1:F:1187:LEU:HG	2.11	0.50
1:B:447:LEU:O	1:B:451:GLN:HG3	2.10	0.50
1:B:451:GLN:OE1	1:B:773:LEU:HD11	2.11	0.50
1:C:359:THR:CG2	1:C:378:GLN:HA	2.42	0.50
1:C:359:THR:HG23	1:C:378:GLN:C	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:249:LYS:O	2:H:250:ALA:HB3	2.11	0.50
2:G:43:GLN:NE2	2:G:123:VAL:HG13	2.26	0.50
2:K:250:ALA:CB	2:K:251:PRO:HD2	2.35	0.50
2:K:286:ASN:HB2	2:K:311:GLN:NE2	2.26	0.50
2:I:345:ILE:HD13	2:I:345:ILE:N	2.17	0.50
2:K:93:ILE:HD12	2:K:96:ARG:HD2	1.94	0.50
2:H:317:LYS:HZ2	2:H:345:ILE:HG21	1.76	0.50
2:I:68:TRP:HB2	2:I:80:ALA:HB1	1.91	0.50
2:J:43:GLN:OE1	2:J:119:THR:HG23	2.12	0.50
2:J:132:TRP:HD1	2:J:202:ARG:CB	2.24	0.50
2:G:388:PHE:CE2	2:G:390:VAL:CG1	2.95	0.50
2:H:434:MET:CB	2:H:437:VAL:HG12	2.42	0.50
2:H:93:ILE:HD12	2:H:96:ARG:HD2	1.94	0.50
2:L:366:ARG:HE	2:L:391:GLN:CD	2.15	0.50
1:D:824:GLN:O	1:D:827:ASP:CB	2.58	0.50
1:E:484:PRO:HG3	1:E:823:MET:HG3	1.94	0.50
1:E:997:THR:CG2	1:E:998:VAL:N	2.73	0.50
2:G:479:ALA:O	2:G:480:ALA:HB3	2.12	0.50
2:J:479:ALA:O	2:J:480:ALA:HB3	2.12	0.50
1:C:1:CYS:SG	1:C:211:TYR:HD2	2.35	0.50
1:E:1:CYS:HB3	3:E:2473:OMT:CE	2.41	0.50
1:A:209:GLN:HG3	1:A:210:ARG:H	1.76	0.50
1:C:1396:ASP:O	1:C:1396:ASP:OD1	2.30	0.50
1:D:351:ARG:HH12	1:D:978:GLU:CD	2.14	0.50
1:B:979:ASP:O	1:B:980:LEU:C	2.49	0.50
2:H:134:GLN:HB3	2:H:136:TRP:NE1	2.26	0.50
1:B:670:LEU:C	1:B:670:LEU:HD22	2.31	0.50
1:D:720:ARG:O	1:D:722:GLY:N	2.45	0.50
1:F:630:HIS:O	1:F:631:LEU:C	2.49	0.50
1:B:1278:ALA:O	1:B:1279:PHE:HB2	2.12	0.50
1:B:1204:ARG:O	1:B:1206:GLU:N	2.45	0.50
1:B:111:PRO:C	1:B:112:ILE:HG23	2.33	0.50
1:B:503:PHE:N	1:B:503:PHE:CD1	2.79	0.50
1:F:1435:THR:HG23	1:F:1437:SER:CB	2.42	0.50
1:D:111:PRO:C	1:D:112:ILE:HG23	2.33	0.50
1:C:442:MET:CE	1:C:447:LEU:HA	2.41	0.49
2:J:388:PHE:CE2	2:J:390:VAL:CG1	2.95	0.49
1:F:780:ARG:NH2	2:I:54:PHE:CD1	2.78	0.49
1:D:479:MET:HG3	1:D:1104:MET:SD	2.52	0.49
1:E:454:PHE:CD2	1:E:648:GLU:HA	2.47	0.49
1:C:705:LEU:HD23	1:C:705:LEU:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:664:THR:HA	1:A:720:ARG:HE	1.77	0.49
2:K:349:ALA:HB3	2:K:350:PRO:CD	2.39	0.49
1:F:430:VAL:HG22	1:F:557:ALA:HB3	1.94	0.49
1:F:451:GLN:OE1	1:F:773:LEU:HD11	2.11	0.49
1:D:452:GLN:HG3	1:D:764:THR:HG22	1.94	0.49
2:G:55:CYS:SG	2:G:65:ILE:HD12	2.52	0.49
2:G:77:LEU:CA	2:G:127:ILE:HD11	2.39	0.49
1:A:105:TYR:CD1	1:A:105:TYR:N	2.80	0.49
1:E:105:TYR:N	1:E:105:TYR:CD1	2.80	0.49
2:K:181:ARG:C	2:K:181:ARG:HH11	2.14	0.49
1:B:1401:LEU:HD11	1:B:1405:ILE:HB	1.94	0.49
1:C:731:SER:HA	1:C:747:SER:CB	2.42	0.49
1:E:731:SER:HA	1:E:747:SER:CB	2.42	0.49
1:D:1394:VAL:HG11	1:D:1401:LEU:CD2	2.40	0.49
2:K:43:GLN:NE2	2:K:123:VAL:HG13	2.26	0.49
2:I:132:TRP:HD1	2:I:202:ARG:CB	2.24	0.49
2:J:230:ARG:NH2	2:J:434:MET:HE1	2.27	0.49
2:J:415:LEU:HD22	2:J:416:LYS:N	2.27	0.49
1:F:290:THR:CG2	1:F:291:ALA:N	2.75	0.49
2:L:31:ILE:HD12	2:L:31:ILE:C	2.31	0.49
2:L:161:ALA:CB	2:L:454:ILE:HG12	2.40	0.49
1:D:290:THR:O	1:D:294:VAL:HG23	2.12	0.49
2:H:166:LEU:HD23	2:H:461:ALA:CB	2.36	0.49
2:H:416:LYS:HE3	2:H:433:ASN:CB	2.41	0.49
1:E:235:ASN:ND2	1:E:236:THR:N	2.38	0.49
1:F:515:ARG:NE	1:F:1367:TYR:HE1	2.09	0.49
1:D:236:THR:HG22	1:D:328:ASP:N	2.24	0.49
1:E:353:MET:O	1:E:353:MET:HG3	2.11	0.49
2:H:366:ARG:HE	2:H:391:GLN:CD	2.15	0.49
1:B:1316:GLU:O	1:B:1317:THR:C	2.46	0.49
1:D:569:ILE:HG22	1:D:589:ILE:HG22	1.93	0.49
1:C:62:ILE:O	1:C:62:ILE:CG2	2.60	0.49
1:C:621:ILE:HG12	1:C:657:VAL:HG12	1.93	0.49
1:E:676:ALA:O	1:E:679:HIS:N	2.45	0.49
1:C:676:ALA:O	1:C:679:HIS:N	2.45	0.49
1:B:953:ILE:O	1:B:954:ALA:C	2.50	0.49
1:B:720:ARG:O	1:B:722:GLY:N	2.45	0.49
1:F:720:ARG:O	1:F:722:GLY:N	2.45	0.49
1:A:1359:GLY:O	1:A:1360:CYS:CB	2.58	0.49
1:F:197:ASP:OD1	1:F:199:ARG:HB2	2.12	0.49
1:E:763:ALA:O	1:E:767:ASN:HB2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:896:PRO:HG2	1:E:1226:GLY:HA3	1.94	0.49
1:E:509:PRO:HB3	1:E:975:TYR:HD1	1.77	0.49
1:A:510:PRO:HD2	1:A:970:PRO:CB	2.34	0.49
1:B:1104:MET:C	2:G:54:PHE:CZ	2.81	0.49
1:C:825:LEU:HD12	1:C:1186:ARG:NH1	2.13	0.49
2:G:415:LEU:HD23	2:G:432:THR:HG23	1.94	0.49
2:G:430:LYS:HG2	2:G:459:ASP:OD1	2.13	0.49
2:G:77:LEU:HD22	2:G:130:THR:CG2	2.42	0.49
2:G:93:ILE:HD12	2:G:96:ARG:HD2	1.94	0.49
2:K:479:ALA:O	2:K:480:ALA:HB3	2.12	0.49
2:I:77:LEU:HD22	2:I:130:THR:CG2	2.41	0.49
2:I:201:GLU:O	2:I:204:VAL:HG13	2.11	0.49
2:I:32:TYR:CD1	2:I:34:ARG:CD	2.94	0.49
2:I:415:LEU:HD22	2:I:416:LYS:N	2.27	0.49
2:J:434:MET:CB	2:J:437:VAL:HG12	2.42	0.49
2:J:93:ILE:HD12	2:J:96:ARG:HD2	1.94	0.49
2:I:259:VAL:O	2:I:396:ILE:HA	2.12	0.49
2:G:302:MET:HG3	2:G:333:GLU:OE2	2.11	0.49
2:L:32:TYR:CD1	2:L:34:ARG:CD	2.94	0.49
2:L:468:ALA:O	2:L:471:LYS:HB2	2.12	0.49
2:L:259:VAL:O	2:L:396:ILE:HA	2.12	0.49
2:L:292:VAL:HG22	2:L:394:LEU:CD1	2.30	0.49
2:H:43:GLN:OE1	2:H:119:THR:HG23	2.12	0.49
2:H:415:LEU:HD22	2:H:416:LYS:N	2.27	0.49
2:H:426:ASP:HB3	2:H:429:THR:OG1	2.12	0.49
1:F:515:ARG:NH2	1:F:966:ILE:HB	2.16	0.49
1:C:1458:VAL:HG13	1:C:1459:PRO:CD	2.42	0.49
1:F:236:THR:OG1	1:F:718:SER:HB3	2.12	0.49
1:B:1211:LEU:HG	1:B:1215:ILE:HD11	1.94	0.49
1:C:454:PHE:CD2	1:C:648:GLU:HA	2.47	0.49
1:A:116:ILE:HD13	1:A:190:THR:HG21	1.94	0.49
1:C:997:THR:CG2	1:C:998:VAL:N	2.73	0.49
1:B:1057:THR:HG22	1:B:1058:LEU:N	2.22	0.49
1:F:1058:LEU:C	1:F:1059:ASN:HD22	2.14	0.49
1:E:62:ILE:O	1:E:62:ILE:CG2	2.60	0.49
2:K:134:GLN:CB	2:K:136:TRP:CD1	2.94	0.49
2:I:134:GLN:CB	2:I:136:TRP:CD1	2.94	0.49
1:C:847:THR:HG21	1:E:1218:ASP:OD2	2.12	0.49
1:A:21:GLY:O	1:A:22:ILE:C	2.49	0.49
1:C:1359:GLY:O	1:C:1360:CYS:HB3	2.12	0.49
1:C:1023:ILE:HD12	1:C:1023:ILE:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1023:ILE:HD12	1:E:1023:ILE:N	2.27	0.49
1:A:492:TYR:C	1:A:492:TYR:CD1	2.86	0.49
2:G:109:VAL:O	2:G:112:GLN:HG2	2.09	0.49
1:E:227:MET:HE3	1:E:282:GLU:CG	2.42	0.49
2:K:388:PHE:CE2	2:K:390:VAL:HG13	2.46	0.49
1:A:359:THR:HG23	1:A:378:GLN:C	2.32	0.49
2:H:259:VAL:O	2:H:396:ILE:HA	2.12	0.49
2:G:169:LYS:HZ3	2:G:461:ALA:HB1	1.77	0.49
2:G:431:MET:CG	2:G:438:PHE:CE2	2.94	0.49
2:G:65:ILE:N	2:G:66:PRO:HD2	2.28	0.49
2:J:249:LYS:O	2:J:250:ALA:HB3	2.11	0.49
2:J:249:LYS:CE	2:J:258:ILE:HD13	2.42	0.49
2:J:286:ASN:HB2	2:J:311:GLN:NE2	2.26	0.49
1:E:731:SER:HB2	1:E:747:SER:HB2	1.94	0.49
2:K:415:LEU:HD22	2:K:416:LYS:N	2.27	0.49
2:H:349:ALA:HB3	2:H:350:PRO:CD	2.39	0.49
1:E:1243:GLY:O	1:E:1244:THR:C	2.49	0.49
2:I:226:LEU:N	2:I:227:PRO:HD2	2.28	0.49
2:I:93:ILE:HD12	2:I:96:ARG:HD2	1.94	0.49
2:J:174:HIS:HD2	2:J:176:TYR:CD1	2.30	0.49
2:I:249:LYS:O	2:I:250:ALA:HB3	2.11	0.49
1:B:290:THR:O	1:B:294:VAL:HG23	2.12	0.49
2:L:431:MET:CG	2:L:438:PHE:CE2	2.94	0.49
2:H:174:HIS:HD2	2:H:176:TYR:CD1	2.30	0.49
2:H:212:VAL:CG2	2:H:214:TYR:CE1	2.95	0.49
1:F:295:LYS:CB	1:F:390:MET:HE1	2.41	0.49
1:F:310:PRO:CG	1:F:404:ARG:NH2	2.66	0.49
2:K:366:ARG:HE	2:K:391:GLN:CD	2.15	0.49
1:D:911:ALA:O	1:D:912:SER:C	2.50	0.49
1:C:1368:MET:HB3	1:C:1387:MET:HG3	1.93	0.49
1:F:249:THR:CG2	1:F:249:THR:O	2.55	0.49
1:D:690:GLU:CD	1:D:690:GLU:H	2.15	0.49
1:F:302:ALA:HB2	1:F:347:ARG:HH11	1.76	0.49
1:A:207:TYR:HD1	1:A:207:TYR:N	2.08	0.49
1:E:824:GLN:HE21	1:E:824:GLN:HA	1.65	0.49
1:A:369:THR:O	1:A:371:MET:N	2.43	0.49
1:A:1417:VAL:HG12	1:A:1418:GLY:N	2.27	0.49
2:K:134:GLN:HB3	2:K:136:TRP:NE1	2.27	0.49
1:D:670:LEU:HD22	1:D:670:LEU:C	2.31	0.49
1:A:243:TRP:CE3	1:A:243:TRP:HA	2.47	0.49
1:B:337:ASP:OD1	1:B:337:ASP:C	2.49	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1149:ILE:O	1:C:1149:ILE:CG2	2.59	0.49
1:E:689:LEU:HG	1:E:689:LEU:O	2.11	0.49
1:F:1278:ALA:O	1:F:1279:PHE:HB2	2.12	0.49
1:D:197:ASP:OD1	1:D:199:ARG:HB2	2.12	0.49
1:E:53:LYS:O	1:E:54:PHE:C	2.50	0.49
1:D:1204:ARG:O	1:D:1206:GLU:N	2.45	0.49
2:G:266:THR:HG23	2:G:270:LYS:HZ2	1.76	0.49
1:E:780:ARG:HB3	2:L:52:VAL:N	2.26	0.49
1:A:877:ARG:CG	1:C:1229:MET:CA	2.80	0.49
1:D:1227:GLU:OE2	1:F:902:ASN:CG	2.42	0.49
1:A:1228:LYS:HD3	1:E:901:ASP:CG	2.32	0.49
1:A:1415:ILE:CG2	1:A:1421:GLU:HB2	2.41	0.49
1:A:1442:GLU:OE2	2:L:374:ALA:C	2.50	0.49
2:J:290:LYS:HB3	2:J:393:ASP:OD2	2.11	0.49
1:F:777:GLY:O	1:F:788:HIS:CE1	2.51	0.49
1:A:710:LYS:CG	1:A:939:GLY:HA3	2.34	0.49
1:B:820:ARG:CB	1:B:821:PRO:HD2	2.37	0.49
1:B:260:MET:O	1:B:261:GLN:C	2.48	0.49
1:F:556:ARG:O	1:F:557:ALA:C	2.48	0.49
1:E:636:LEU:O	1:E:637:ARG:C	2.50	0.49
1:D:1184:ASN:O	1:D:1186:ARG:N	2.46	0.49
1:E:359:THR:HG23	1:E:378:GLN:CB	2.41	0.49
1:E:359:THR:HG23	1:E:378:GLN:C	2.32	0.49
2:H:257:ASN:O	2:H:394:LEU:HD23	2.12	0.49
2:G:43:GLN:OE1	2:G:119:THR:HG23	2.12	0.49
2:G:132:TRP:HD1	2:G:202:ARG:CB	2.24	0.49
2:G:200:VAL:O	2:G:204:VAL:HG12	2.12	0.49
2:I:434:MET:CB	2:I:437:VAL:HG12	2.42	0.49
2:J:415:LEU:CD2	2:J:432:THR:HG23	2.41	0.49
2:J:430:LYS:HG2	2:J:459:ASP:OD1	2.13	0.49
2:I:249:LYS:CE	2:I:258:ILE:HD13	2.42	0.49
2:G:388:PHE:CE2	2:G:390:VAL:HG13	2.46	0.49
2:G:286:ASN:HB2	2:G:311:GLN:NE2	2.26	0.49
2:L:93:ILE:HD12	2:L:96:ARG:HD2	1.94	0.49
2:H:469:LYS:CD	2:H:476:VAL:HB	2.38	0.49
1:D:30:HIS:HD2	1:D:31:ARG:N	2.10	0.49
1:A:960:THR:CG2	1:A:963:VAL:HG21	2.42	0.49
2:K:418:THR:HG1	2:K:420:TRP:HD1	1.58	0.49
2:I:366:ARG:HE	2:I:391:GLN:CD	2.15	0.49
1:E:345:MET:HE2	1:E:385:LEU:HB2	1.93	0.49
1:F:402:ARG:O	1:F:403:ASP:C	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1368:MET:HB3	1:A:1387:MET:HG3	1.94	0.49
1:B:572:THR:CG2	1:B:615:ARG:HB3	2.42	0.49
1:A:342:VAL:HG11	1:A:390:MET:CE	2.37	0.49
1:B:1207:VAL:HG13	1:B:1208:PRO:HD2	1.93	0.49
1:E:1289:MET:HE2	1:E:1289:MET:N	2.28	0.49
1:B:353:MET:CE	1:B:366:GLY:O	2.60	0.49
1:D:608:ASP:OD2	1:D:647:ALA:N	2.42	0.49
1:E:1054:GLN:O	1:E:1057:THR:HB	2.12	0.49
1:A:1417:VAL:CG1	1:A:1418:GLY:N	2.73	0.49
2:G:134:GLN:HB3	2:G:136:TRP:NE1	2.26	0.49
1:A:393:VAL:HG12	1:A:394:ASP:N	2.23	0.49
2:J:134:GLN:HB3	2:J:136:TRP:NE1	2.26	0.49
1:F:868:HIS:O	1:F:869:GLY:C	2.50	0.49
1:F:111:PRO:C	1:F:112:ILE:HG23	2.33	0.49
1:F:1407:ASP:O	1:F:1408:GLU:C	2.50	0.49
1:A:1023:ILE:HD12	1:A:1023:ILE:N	2.27	0.49
1:A:791:GLU:O	1:A:795:ILE:HG13	2.11	0.49
1:E:228:LEU:HD22	1:E:278:ASP:HA	1.94	0.49
1:B:1407:ASP:O	1:B:1408:GLU:C	2.50	0.49
1:A:225:PHE:HB3	1:A:278:ASP:OD2	2.12	0.49
1:A:780:ARG:HB3	2:J:51:GLY:O	2.11	0.49
1:C:492:TYR:CG	1:C:761:GLN:HG2	2.47	0.49
1:B:1184:ASN:O	1:B:1186:ARG:N	2.46	0.49
1:C:877:ARG:CG	1:E:1229:MET:CA	2.80	0.49
2:J:302:MET:SD	2:J:333:GLU:HG3	2.53	0.49
1:A:969:PRO:HD2	1:A:970:PRO:CD	2.42	0.49
1:B:780:ARG:NH2	2:G:54:PHE:CD1	2.78	0.49
1:E:1421:GLU:HG3	1:E:1451:VAL:HG11	1.94	0.49
1:D:430:VAL:HG22	1:D:557:ALA:HB3	1.94	0.49
2:G:415:LEU:HD22	2:G:416:LYS:N	2.27	0.49
2:K:259:VAL:O	2:K:396:ILE:HA	2.12	0.49
2:I:388:PHE:CE2	2:I:390:VAL:CG1	2.95	0.49
2:K:432:THR:HB	2:K:437:VAL:HG13	1.95	0.49
2:K:431:MET:CG	2:K:438:PHE:CE2	2.94	0.49
2:K:55:CYS:SG	2:K:65:ILE:HD12	2.52	0.49
2:I:416:LYS:HE3	2:I:433:ASN:CB	2.41	0.49
2:I:431:MET:CG	2:I:438:PHE:CE2	2.94	0.49
2:I:454:ILE:HD13	2:I:454:ILE:C	2.33	0.49
2:I:65:ILE:N	2:I:66:PRO:HD2	2.28	0.49
2:G:302:MET:SD	2:G:333:GLU:HG3	2.53	0.49
1:F:290:THR:O	1:F:294:VAL:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:132:TRP:HD1	2:L:202:ARG:CB	2.24	0.49
2:L:415:LEU:HD22	2:L:416:LYS:N	2.27	0.49
2:L:92:GLU:HG3	2:L:203:ARG:HH12	1.78	0.49
1:F:704:LEU:C	1:F:706:LYS:H	2.14	0.49
2:G:418:THR:HG1	2:G:420:TRP:HD1	1.60	0.49
1:F:242:ASN:HA	1:F:245:LYS:HG3	1.95	0.49
1:D:236:THR:OG1	1:D:718:SER:HB3	2.12	0.49
1:C:47:HIS:HE1	1:C:176:SER:CB	2.25	0.49
1:D:838:VAL:HG12	1:D:839:PRO:CD	2.39	0.49
1:E:754:ILE:O	1:E:755:GLN:C	2.48	0.49
1:B:526:LEU:N	1:B:526:LEU:CD1	2.64	0.49
1:B:690:GLU:H	1:B:690:GLU:CD	2.15	0.49
1:D:589:ILE:O	1:D:593:THR:OG1	2.28	0.49
1:B:594:GLU:O	1:B:597:VAL:N	2.45	0.49
1:A:51:PRO:HG3	1:A:200:PHE:CD2	2.48	0.49
1:B:1146:VAL:O	1:B:1147:ARG:C	2.46	0.49
1:E:90:ARG:HB3	1:E:107:TRP:CH2	2.48	0.49
1:C:90:ARG:HB3	1:C:107:TRP:CH2	2.48	0.49
1:F:353:MET:CE	1:F:366:GLY:O	2.60	0.49
2:I:479:ALA:O	2:I:480:ALA:HB3	2.12	0.49
1:F:1427:LEU:O	1:F:1430:GLU:N	2.46	0.49
1:D:355:TYR:O	1:D:355:TYR:CD1	2.65	0.49
1:F:978:GLU:O	1:F:981:ALA:HB3	2.13	0.49
1:B:797:THR:HG23	1:B:812:LYS:HE2	1.94	0.49
1:A:1218:ASP:OD2	1:E:847:THR:HG21	2.12	0.49
1:E:21:GLY:O	1:E:22:ILE:C	2.49	0.49
1:A:203:ASP:N	1:A:203:ASP:OD1	2.44	0.49
1:C:53:LYS:O	1:C:54:PHE:C	2.50	0.49
1:A:1359:GLY:O	1:A:1360:CYS:HB3	2.12	0.49
1:E:798:LEU:O	1:E:802:VAL:HG22	2.12	0.49
1:D:991:ASN:C	1:D:991:ASN:OD1	2.50	0.49
1:A:689:LEU:O	1:A:689:LEU:HG	2.11	0.49
1:F:810:PHE:O	1:F:813:TYR:HB3	2.13	0.49
1:A:442:MET:CE	1:A:447:LEU:HA	2.41	0.49
1:C:1441:ALA:O	1:C:1444:LEU:HB2	2.13	0.49
1:E:970:PRO:CG	1:E:970:PRO:O	2.60	0.49
1:D:253:HIS:CE1	1:D:254:PRO:CD	2.88	0.49
1:D:260:MET:O	1:D:263:LEU:CB	2.55	0.49
1:E:359:THR:CG2	1:E:378:GLN:HA	2.42	0.49
2:G:71:LEU:HA	2:G:74:GLU:HG2	1.95	0.49
2:G:92:GLU:HG3	2:G:203:ARG:HH12	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:257:ASN:O	2:J:394:LEU:HD23	2.12	0.49
1:D:1401:LEU:HD11	1:D:1405:ILE:HB	1.94	0.49
2:K:43:GLN:OE1	2:K:119:THR:HG23	2.12	0.49
2:H:302:MET:SD	2:H:333:GLU:HG3	2.53	0.49
2:H:320:TYR:HD2	2:H:346:TRP:CG	2.31	0.49
2:I:212:VAL:CG2	2:I:214:TYR:CE1	2.95	0.49
2:J:426:ASP:HB3	2:J:429:THR:OG1	2.12	0.49
2:J:65:ILE:N	2:J:66:PRO:HD2	2.28	0.49
2:H:430:LYS:HG2	2:H:459:ASP:OD1	2.12	0.49
2:H:55:CYS:SG	2:H:65:ILE:HD12	2.52	0.49
1:C:643:ASN:HB3	1:C:665:THR:HG21	1.93	0.49
1:E:1075:THR:O	1:E:1076:GLY:C	2.50	0.49
1:A:1075:THR:O	1:A:1076:GLY:C	2.50	0.49
1:F:594:GLU:O	1:F:597:VAL:N	2.45	0.49
1:B:1417:VAL:HG12	1:B:1419:HIS:N	2.26	0.49
1:E:116:ILE:HD13	1:E:190:THR:HG21	1.94	0.49
2:L:479:ALA:O	2:L:480:ALA:HB3	2.12	0.49
1:B:211:TYR:CD1	1:B:212:SER:N	2.80	0.49
1:D:979:ASP:O	1:D:980:LEU:C	2.49	0.49
1:A:652:THR:HG21	1:A:703:GLY:CA	2.41	0.49
1:B:1460:LYS:O	1:B:1462:MET:N	2.44	0.49
1:C:83:LEU:O	1:C:84:ASP:C	2.50	0.49
1:D:864:SER:HG	1:D:867:ALA:H	1.60	0.49
1:B:1228:LYS:HB2	1:D:900:GLY:C	2.33	0.49
1:E:782:ARG:HG2	2:L:53:PRO:HD2	0.55	0.49
1:B:875:MET:O	1:B:876:ASN:C	2.47	0.49
2:J:331:GLN:HA	2:J:334:VAL:HG22	1.93	0.49
1:E:508:ASN:HB2	1:E:509:PRO:HD2	1.95	0.49
1:B:479:MET:HG3	1:B:1104:MET:SD	2.52	0.49
1:E:1441:ALA:O	1:E:1444:LEU:HB2	2.13	0.49
2:K:302:MET:SD	2:K:333:GLU:HG3	2.53	0.49
1:B:260:MET:HE2	1:B:260:MET:HB2	1.75	0.49
1:F:430:VAL:HG13	1:F:554:GLU:CA	2.37	0.49
1:F:850:ARG:HD2	1:F:878:ILE:HD12	1.93	0.49
1:A:359:THR:CG2	1:A:378:GLN:HA	2.42	0.49
2:G:212:VAL:CG2	2:G:214:TYR:CE1	2.95	0.49
2:K:161:ALA:CB	2:K:454:ILE:HG12	2.40	0.49
2:I:43:GLN:OE1	2:I:119:THR:HG23	2.12	0.49
2:I:257:ASN:O	2:I:394:LEU:HD23	2.12	0.49
2:G:259:VAL:O	2:G:396:ILE:HA	2.12	0.49
2:L:200:VAL:O	2:L:204:VAL:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:226:LEU:N	2:L:227:PRO:HD2	2.28	0.49
2:L:415:LEU:HD23	2:L:432:THR:HG23	1.94	0.49
2:L:43:GLN:OE1	2:L:119:THR:HG23	2.12	0.49
2:L:181:ARG:HD3	2:L:182:MET:O	2.13	0.49
2:H:226:LEU:N	2:H:227:PRO:HD2	2.28	0.49
2:H:68:TRP:CD1	2:H:69:LEU:N	2.80	0.49
1:D:417:ASP:HA	1:D:420:VAL:HG12	1.94	0.49
1:E:345:MET:HE2	1:E:385:LEU:CB	2.42	0.49
1:D:505:GLN:NE2	1:D:1001:VAL:N	2.55	0.49
1:E:1318:ASN:H	1:E:1318:ASN:HD22	1.60	0.49
1:E:1368:MET:HB3	1:E:1387:MET:HG3	1.94	0.49
1:F:437:GLY:O	1:F:438:GLU:C	2.48	0.49
1:E:1068:ARG:NE	1:E:1089:GLU:OE1	2.39	0.49
1:C:484:PRO:HG3	1:C:823:MET:HG3	1.94	0.49
1:C:110:VAL:O	1:C:112:ILE:HG23	2.13	0.49
1:E:191:PHE:CE1	1:E:192:TYR:CE1	3.01	0.49
2:L:134:GLN:HB3	2:L:136:TRP:NE1	2.26	0.49
1:B:868:HIS:O	1:B:869:GLY:C	2.50	0.49
1:D:953:ILE:O	1:D:954:ALA:C	2.50	0.49
1:A:228:LEU:HD22	1:A:278:ASP:HA	1.94	0.49
1:F:1163:GLY:O	1:F:1165:THR:N	2.45	0.49
1:C:1221:PRO:CG	1:C:1229:MET:HE2	2.34	0.49
1:A:182:MET:HE1	1:A:217:PRO:C	2.30	0.49
1:A:1440:ALA:O	1:A:1443:ILE:N	2.42	0.49
2:L:324:ARG:HA	2:L:346:TRP:CZ2	2.46	0.49
1:C:1438:ARG:CZ	2:J:376:GLY:C	2.80	0.49
1:D:782:ARG:CB	2:H:56:GLN:NE2	2.41	0.49
1:C:521:SER:OG	1:C:522:LEU:N	2.45	0.49
1:A:508:ASN:HB2	1:A:509:PRO:HD2	1.94	0.49
2:K:345:ILE:HG12	2:K:345:ILE:O	2.13	0.49
2:K:353:PHE:CE1	2:K:370:GLY:CA	2.96	0.49
1:F:1184:ASN:O	1:F:1186:ARG:N	2.46	0.49
2:G:434:MET:CB	2:G:437:VAL:HG12	2.42	0.49
2:K:249:LYS:O	2:K:250:ALA:HB3	2.11	0.49
2:K:257:ASN:O	2:K:394:LEU:HD23	2.12	0.49
2:K:181:ARG:HD3	2:K:182:MET:O	2.13	0.49
1:E:1111:ASN:OD1	1:E:1119:VAL:CG2	2.37	0.49
2:I:302:MET:SD	2:I:333:GLU:HG3	2.53	0.49
2:I:320:TYR:HD2	2:I:346:TRP:CG	2.31	0.49
2:I:353:PHE:CE1	2:I:370:GLY:CA	2.96	0.49
2:K:200:VAL:O	2:K:204:VAL:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:212:VAL:CG2	2:K:214:TYR:CE1	2.95	0.49
2:K:415:LEU:HD23	2:K:432:THR:HG23	1.94	0.49
2:K:449:LEU:CD2	2:K:452:TRP:CG	2.93	0.49
2:K:469:LYS:HD2	2:K:476:VAL:CB	2.39	0.49
2:I:174:HIS:HD2	2:I:176:TYR:CD1	2.30	0.49
2:I:92:GLU:HG3	2:I:203:ARG:HH12	1.78	0.49
2:J:226:LEU:N	2:J:227:PRO:HD2	2.28	0.49
2:J:454:ILE:C	2:J:454:ILE:HD13	2.33	0.49
2:J:68:TRP:CD1	2:J:69:LEU:N	2.80	0.49
2:L:449:LEU:CD2	2:L:451:VAL:HG13	2.27	0.49
2:L:55:CYS:SG	2:L:65:ILE:HD12	2.52	0.49
2:H:200:VAL:O	2:H:204:VAL:HG12	2.12	0.49
1:B:1236:ARG:C	1:B:1238:THR:H	2.15	0.49
1:B:417:ASP:HA	1:B:420:VAL:HG12	1.95	0.49
1:F:419:TRP:O	1:F:540:THR:CG2	2.59	0.49
1:E:15:ARG:HG3	1:E:19:GLU:HG3	1.94	0.49
1:A:90:ARG:HB3	1:A:107:TRP:CH2	2.48	0.49
1:A:484:PRO:HG3	1:A:823:MET:HG3	1.94	0.49
1:D:175:ARG:HH11	1:D:175:ARG:CG	2.19	0.49
1:E:110:VAL:HG12	1:E:111:PRO:N	2.28	0.49
2:G:277:VAL:CG1	2:G:279:ALA:H	2.26	0.49
1:C:499:PHE:HE2	1:C:742:MET:CE	2.26	0.49
1:D:810:PHE:O	1:D:813:TYR:HB3	2.13	0.49
1:D:476:ILE:HA	1:D:1034:PRO:HA	1.94	0.49
1:B:1435:THR:HG23	1:B:1437:SER:CB	2.42	0.49
1:C:780:ARG:HB3	2:K:51:GLY:O	2.11	0.49
1:B:901:ASP:OD2	1:F:1228:LYS:HD3	2.13	0.49
1:E:1219:ALA:C	1:E:1221:PRO:HD2	2.34	0.49
1:C:1395:TYR:CD2	1:C:1443:ILE:HD13	2.48	0.49
1:C:1447:TRP:CE3	1:C:1447:TRP:HA	2.48	0.49
2:J:345:ILE:HG12	2:J:345:ILE:O	2.13	0.49
1:B:1113:CYS:O	1:B:1114:PRO:C	2.48	0.49
1:E:1442:GLU:OE2	2:K:374:ALA:C	2.50	0.49
1:E:1184:ASN:O	1:E:1187:LEU:N	2.44	0.49
1:F:831:LEU:HD13	1:F:1084:MET:HE3	1.94	0.49
1:E:550:LEU:HD13	1:E:555:PHE:HA	1.95	0.49
2:G:432:THR:HB	2:G:437:VAL:HG13	1.95	0.49
2:J:259:VAL:O	2:J:396:ILE:HA	2.12	0.49
1:A:1366:GLU:HG2	1:A:1367:TYR:CE2	2.47	0.49
2:H:367:ILE:HD12	2:H:369:LEU:HD11	1.93	0.49
2:H:353:PHE:CE1	2:H:370:GLY:CA	2.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:468:ALA:O	2:I:471:LYS:HB2	2.12	0.49
2:J:174:HIS:CD2	2:J:176:TYR:CZ	3.01	0.49
2:J:55:CYS:SG	2:J:65:ILE:HD12	2.52	0.49
2:G:250:ALA:CB	2:G:251:PRO:HD2	2.35	0.49
2:L:71:LEU:HA	2:L:74:GLU:HG2	1.95	0.49
2:L:93:ILE:HD11	2:L:195:LEU:CD2	2.30	0.49
2:H:174:HIS:CD2	2:H:176:TYR:CZ	3.01	0.49
1:D:1236:ARG:C	1:D:1238:THR:H	2.15	0.49
2:L:418:THR:CB	2:L:424:LEU:HD11	2.23	0.49
1:C:294:VAL:O	1:C:295:LYS:C	2.47	0.49
1:C:80:ARG:HG3	1:C:80:ARG:O	2.12	0.49
1:E:213:THR:O	1:E:214:ASN:ND2	2.43	0.49
1:D:1211:LEU:HG	1:D:1215:ILE:HD11	1.94	0.49
1:C:1075:THR:O	1:C:1076:GLY:C	2.50	0.49
1:C:218:THR:HG22	1:C:218:THR:O	2.08	0.49
1:A:454:PHE:CD2	1:A:648:GLU:HA	2.47	0.49
1:A:110:VAL:O	1:A:112:ILE:HG23	2.13	0.49
1:E:110:VAL:O	1:E:112:ILE:HG23	2.13	0.49
2:H:277:VAL:CG1	2:H:279:ALA:H	2.26	0.49
1:F:1057:THR:HG22	1:F:1058:LEU:N	2.22	0.49
1:D:1427:LEU:O	1:D:1430:GLU:N	2.46	0.49
1:A:661:VAL:CG1	1:A:661:VAL:O	2.61	0.49
1:E:1396:ASP:O	1:E:1396:ASP:OD1	2.30	0.49
1:A:466:HIS:HB3	1:A:467:PRO:HD3	1.94	0.49
1:E:965:LEU:HA	1:E:965:LEU:HD23	1.33	0.49
1:A:917:VAL:HG13	1:A:922:LEU:HD21	1.95	0.49
1:C:68:ASP:N	1:C:68:ASP:OD1	2.44	0.49
1:A:780:ARG:HB3	2:J:52:VAL:N	2.26	0.49
1:C:491:LYS:HZ2	1:C:785:GLY:HA3	1.77	0.49
1:E:1230:GLN:HE21	1:E:1267:ARG:HD3	1.76	0.49
2:L:320:TYR:HD2	2:L:346:TRP:CG	2.31	0.49
2:J:320:TYR:HD2	2:J:346:TRP:CG	2.31	0.49
2:J:349:ALA:HB3	2:J:350:PRO:CD	2.39	0.49
1:A:244:MET:C	1:A:246:ALA:N	2.65	0.49
1:C:250:ARG:NH2	1:C:639:PHE:CE1	2.79	0.49
1:D:452:GLN:CG	1:D:764:THR:HG22	2.43	0.49
2:G:450:VAL:HG13	2:G:451:VAL:N	2.28	0.49
2:K:174:HIS:HD2	2:K:176:TYR:CD1	2.30	0.49
2:K:174:HIS:CD2	2:K:176:TYR:CZ	3.01	0.49
2:H:345:ILE:HG12	2:H:345:ILE:O	2.13	0.49
2:I:32:TYR:CE2	2:I:194:LYS:HB3	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:449:LEU:HD11	2:I:451:VAL:CG1	2.31	0.49
2:I:68:TRP:CD1	2:I:69:LEU:N	2.80	0.49
2:J:212:VAL:CG2	2:J:214:TYR:CE1	2.95	0.49
2:L:430:LYS:HG2	2:L:459:ASP:OD1	2.12	0.49
2:L:454:ILE:C	2:L:454:ILE:HD13	2.33	0.49
2:L:249:LYS:CE	2:L:258:ILE:HD13	2.42	0.49
2:H:432:THR:HB	2:H:437:VAL:HG13	1.95	0.49
1:A:235:ASN:ND2	1:A:236:THR:HB	2.27	0.49
1:A:1458:VAL:HG13	1:A:1459:PRO:CD	2.42	0.49
1:D:342:VAL:HG11	1:D:390:MET:HE2	1.95	0.49
1:A:353:MET:O	1:A:353:MET:HG3	2.11	0.49
1:E:960:THR:CG2	1:E:963:VAL:HG21	2.42	0.49
1:F:389:GLU:CA	1:F:403:ASP:OD2	2.61	0.49
1:E:51:PRO:HG3	1:E:200:PHE:CD2	2.48	0.49
2:K:197:LYS:HG2	2:K:273:LEU:CD1	2.43	0.49
2:I:197:LYS:HG2	2:I:273:LEU:CD1	2.43	0.49
1:E:463:LEU:HD23	1:E:463:LEU:HA	1.48	0.49
1:F:582:LEU:CB	1:F:755:GLN:HE21	2.26	0.49
1:C:918:THR:O	1:C:919:ALA:C	2.51	0.49
1:D:211:TYR:HD1	1:D:212:SER:N	2.08	0.49
1:A:62:ILE:CG2	1:A:62:ILE:O	2.60	0.49
1:B:537:GLU:HG3	1:B:538:THR:N	2.08	0.49
1:A:1054:GLN:O	1:A:1057:THR:HB	2.12	0.49
1:B:978:GLU:O	1:B:981:ALA:HB3	2.13	0.49
1:F:1159:ASN:C	1:F:1161:VAL:N	2.66	0.49
2:I:134:GLN:HB3	2:I:136:TRP:NE1	2.27	0.49
1:C:225:PHE:HB3	1:C:278:ASP:OD2	2.12	0.49
1:E:83:LEU:O	1:E:84:ASP:C	2.50	0.49
1:F:110:VAL:CG2	1:F:130:GLN:HG3	2.43	0.49
1:F:991:ASN:C	1:F:991:ASN:OD1	2.50	0.49
1:F:269:VAL:HG23	1:F:270:GLY:N	2.21	0.49
1:A:482:ASP:OD1	1:A:788:HIS:HB3	2.13	0.48
1:A:452:GLN:NE2	1:A:764:THR:HG23	1.99	0.48
1:D:1228:LYS:HD3	1:F:901:ASP:OD2	2.13	0.48
1:E:513:SER:HB2	1:E:520:MET:CE	2.43	0.48
1:C:244:MET:O	1:C:245:LYS:C	2.44	0.48
1:C:636:LEU:O	1:C:637:ARG:C	2.50	0.48
1:E:244:MET:C	1:E:246:ALA:N	2.65	0.48
2:G:174:HIS:CD2	2:G:176:TYR:CZ	3.01	0.48
2:G:226:LEU:N	2:G:227:PRO:HD2	2.28	0.48
1:A:731:SER:HB2	1:A:747:SER:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:746:ILE:HG23	1:E:1182:ASP:N	2.21	0.48
2:K:430:LYS:HG2	2:K:459:ASP:OD1	2.13	0.48
2:L:429:THR:CB	2:L:431:MET:HE2	2.42	0.48
1:F:30:HIS:HD2	1:F:31:ARG:N	2.10	0.48
1:B:227:MET:HE3	1:B:282:GLU:CA	2.27	0.48
1:A:1369:THR:O	1:A:1369:THR:HG22	2.13	0.48
1:C:561:TYR:C	1:C:561:TYR:CD1	2.86	0.48
1:F:1207:VAL:HG13	1:F:1208:PRO:HD2	1.93	0.48
1:E:207:TYR:HD1	1:E:207:TYR:N	2.08	0.48
1:E:909:GLN:NE2	1:E:929:GLU:OE1	2.46	0.48
1:A:909:GLN:NE2	1:A:929:GLU:OE1	2.46	0.48
1:E:1054:GLN:O	1:E:1055:VAL:C	2.49	0.48
1:E:466:HIS:HB3	1:E:467:PRO:HD3	1.94	0.48
1:B:1159:ASN:C	1:B:1161:VAL:N	2.66	0.48
1:F:979:ASP:O	1:F:980:LEU:C	2.49	0.48
1:D:24:ALA:C	1:D:26:LYS:N	2.65	0.48
1:F:629:THR:O	1:F:630:HIS:C	2.50	0.48
1:A:53:LYS:O	1:A:54:PHE:C	2.50	0.48
1:D:1435:THR:HG23	1:D:1437:SER:CB	2.42	0.48
1:B:110:VAL:CG2	1:B:130:GLN:HG3	2.43	0.48
1:E:1359:GLY:O	1:E:1360:CYS:CB	2.58	0.48
1:B:1163:GLY:O	1:B:1165:THR:N	2.45	0.48
1:A:491:LYS:HZ1	1:A:785:GLY:HA3	1.76	0.48
1:E:672:GLN:CG	1:E:693:MET:CE	2.79	0.48
1:A:900:GLY:C	1:C:1228:LYS:CB	2.82	0.48
1:C:482:ASP:OD1	1:C:788:HIS:HB3	2.13	0.48
1:B:728:ILE:CD1	1:B:1047:MET:CE	2.74	0.48
2:J:324:ARG:NH1	2:J:324:ARG:HB3	2.28	0.48
1:E:1030:THR:HG21	1:E:1033:SER:HB3	1.95	0.48
1:E:510:PRO:HD2	1:E:970:PRO:CB	2.34	0.48
1:A:705:LEU:N	1:A:705:LEU:HD23	2.26	0.48
2:K:320:TYR:HD2	2:K:346:TRP:CG	2.31	0.48
2:K:323:ASP:HB2	2:K:348:ALA:C	2.34	0.48
1:D:254:PRO:O	1:D:257:GLY:N	2.37	0.48
1:B:430:VAL:HG22	1:B:557:ALA:HB3	1.94	0.48
1:A:430:VAL:HG22	1:A:557:ALA:HB3	1.95	0.48
1:E:1108:CYS:SG	6:E:2476:F3S:S4	2.94	0.48
2:K:450:VAL:HG13	2:K:451:VAL:N	2.28	0.48
2:G:181:ARG:HD3	2:G:182:MET:O	2.13	0.48
2:I:450:VAL:HG13	2:I:451:VAL:N	2.28	0.48
2:I:181:ARG:HD3	2:I:182:MET:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:418:THR:CB	2:G:424:LEU:HD11	2.23	0.48
1:E:342:VAL:HG11	1:E:390:MET:CE	2.37	0.48
1:A:537:GLU:C	1:A:539:GLN:H	2.15	0.48
2:G:141:THR:HB	2:G:142:PRO:CD	2.40	0.48
1:E:537:GLU:C	1:E:539:GLN:H	2.15	0.48
1:F:1216:VAL:HG11	1:F:1249:MET:HE1	1.94	0.48
1:D:1059:ASN:O	1:D:1060:ARG:HB2	2.12	0.48
1:F:211:TYR:HD1	1:F:212:SER:N	2.08	0.48
1:A:1396:ASP:OD1	1:A:1396:ASP:O	2.30	0.48
1:E:1236:ARG:C	1:E:1238:THR:H	2.17	0.48
1:D:1159:ASN:C	1:D:1161:VAL:N	2.66	0.48
1:A:1281:VAL:HA	1:A:1301:SER:O	2.13	0.48
1:C:676:ALA:O	1:C:677:GLU:C	2.50	0.48
1:F:953:ILE:O	1:F:954:ALA:C	2.50	0.48
1:E:97:ILE:HD13	1:E:133:VAL:HG21	1.95	0.48
1:E:225:PHE:HB3	1:E:278:ASP:OD2	2.12	0.48
1:B:810:PHE:O	1:B:813:TYR:HB3	2.13	0.48
1:A:83:LEU:O	1:A:84:ASP:C	2.50	0.48
1:C:1070:ASP:OD1	1:C:1070:ASP:C	2.52	0.48
1:B:1310:THR:HG22	1:B:1311:THR:HG22	1.95	0.48
1:F:354:ARG:NH2	1:F:1292:ALA:O	2.46	0.48
1:A:1091:GLY:C	1:A:1092:ILE:HG13	2.34	0.48
1:A:1112:THR:O	2:J:112:GLN:NE2	2.40	0.48
1:C:1230:GLN:HE21	1:C:1267:ARG:HD3	1.76	0.48
1:A:1219:ALA:C	1:A:1221:PRO:HD2	2.34	0.48
1:A:1441:ALA:O	1:A:1444:LEU:HB2	2.13	0.48
1:F:479:MET:HG3	1:F:1104:MET:SD	2.52	0.48
1:A:1184:ASN:O	1:A:1186:ARG:N	2.46	0.48
1:F:452:GLN:CG	1:F:764:THR:HG22	2.43	0.48
2:G:174:HIS:HD2	2:G:176:TYR:CD1	2.30	0.48
2:G:454:ILE:C	2:G:454:ILE:HD13	2.33	0.48
2:G:240:THR:HG1	8:G:484:FAD:C5A	2.26	0.48
1:A:734:LEU:HD12	1:A:738:HIS:CD2	2.41	0.48
2:K:226:LEU:N	2:K:227:PRO:HD2	2.28	0.48
2:H:181:ARG:HD3	2:H:182:MET:O	2.13	0.48
2:I:146:LEU:N	2:I:146:LEU:HD22	2.26	0.48
2:I:415:LEU:HD23	2:I:432:THR:HG23	1.94	0.48
2:I:430:LYS:HG2	2:I:459:ASP:OD1	2.13	0.48
2:J:450:VAL:HG13	2:J:451:VAL:N	2.28	0.48
2:G:249:LYS:O	2:G:250:ALA:HB3	2.11	0.48
2:G:257:ASN:O	2:G:394:LEU:HD23	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:174:HIS:HD2	2:L:176:TYR:CD1	2.30	0.48
2:L:257:ASN:O	2:L:394:LEU:HD23	2.12	0.48
2:L:181:ARG:C	2:L:182:MET:HE3	2.34	0.48
2:H:432:THR:HB	2:H:437:VAL:O	2.13	0.48
2:H:449:LEU:CD2	2:H:452:TRP:CG	2.93	0.48
2:H:65:ILE:N	2:H:66:PRO:HD2	2.28	0.48
1:B:419:TRP:O	1:B:540:THR:OG1	2.27	0.48
1:F:419:TRP:O	1:F:540:THR:OG1	2.27	0.48
1:A:309:THR:CG2	1:A:314:LYS:HG3	2.42	0.48
2:J:366:ARG:HE	2:J:391:GLN:CD	2.15	0.48
1:A:1318:ASN:H	1:A:1318:ASN:HD22	1.60	0.48
1:B:389:GLU:CA	1:B:403:ASP:OD2	2.61	0.48
1:A:1007:GLY:N	1:A:1051:GLU:OE2	2.41	0.48
1:F:949:VAL:C	1:F:950:THR:O	2.48	0.48
1:F:1211:LEU:HG	1:F:1215:ILE:HD11	1.94	0.48
1:C:949:VAL:C	1:C:950:THR:O	2.50	0.48
1:C:538:THR:HG23	1:C:538:THR:O	2.13	0.48
1:A:918:THR:O	1:A:919:ALA:C	2.51	0.48
2:L:277:VAL:CG1	2:L:279:ALA:H	2.26	0.48
1:C:1396:ASP:OD1	1:C:1399:ASP:N	2.47	0.48
1:A:1057:THR:HG22	1:A:1058:LEU:N	2.28	0.48
1:C:1236:ARG:C	1:C:1238:THR:N	2.67	0.48
1:A:1236:ARG:C	1:A:1238:THR:H	2.17	0.48
1:D:868:HIS:O	1:D:869:GLY:C	2.50	0.48
1:F:797:THR:HG23	1:F:812:LYS:HE2	1.94	0.48
1:B:630:HIS:O	1:B:631:LEU:C	2.49	0.48
1:F:1407:ASP:O	1:F:1409:SER:N	2.47	0.48
1:C:858:MET:HA	4:C:2474:FMN:N5	2.29	0.48
1:D:1278:ALA:O	1:D:1279:PHE:HB2	2.12	0.48
1:C:633:ARG:NH2	1:C:737:GLU:O	2.39	0.48
1:B:846:ILE:O	1:B:847:THR:C	2.48	0.48
1:E:492:TYR:C	1:E:492:TYR:CD1	2.86	0.48
2:K:54:PHE:CB	2:K:107:ASN:HB3	2.39	0.48
1:B:900:GLY:C	1:F:1228:LYS:HB2	2.33	0.48
1:A:1395:TYR:CD2	1:A:1443:ILE:HD13	2.48	0.48
2:J:327:MET:HG2	2:J:334:VAL:HG11	1.96	0.48
2:J:345:ILE:HD13	2:J:345:ILE:N	2.17	0.48
2:K:327:MET:HG2	2:K:334:VAL:HG11	1.96	0.48
1:D:731:SER:HA	1:D:747:SER:CB	2.43	0.48
1:E:430:VAL:HG22	1:E:557:ALA:HB3	1.95	0.48
1:B:443:ASP:O	1:B:446:GLU:N	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:465:LEU:HD21	1:B:675:ILE:HG13	1.95	0.48
2:G:186:LEU:HD23	2:G:195:LEU:CG	2.43	0.48
2:K:469:LYS:HZ3	2:K:476:VAL:CA	2.26	0.48
2:I:240:THR:HG1	8:I:484:FAD:C5A	2.27	0.48
2:J:469:LYS:HZ3	2:J:476:VAL:CA	2.24	0.48
2:G:323:ASP:HB2	2:G:348:ALA:C	2.34	0.48
2:L:432:THR:HB	2:L:437:VAL:HG13	1.95	0.48
1:B:30:HIS:HD2	1:B:31:ARG:N	2.10	0.48
1:B:1075:THR:O	1:B:1076:GLY:C	2.50	0.48
1:D:1131:THR:CG2	1:D:1133:GLU:H	2.27	0.48
1:B:1008:THR:O	1:B:1011:ALA:HB3	2.14	0.48
1:E:643:ASN:HB3	1:E:665:THR:HG21	1.93	0.48
1:D:594:GLU:O	1:D:597:VAL:N	2.45	0.48
1:B:582:LEU:CB	1:B:755:GLN:HE21	2.26	0.48
1:D:582:LEU:CB	1:D:755:GLN:HE21	2.26	0.48
1:A:87:GLU:O	1:A:90:ARG:N	2.47	0.48
1:A:24:ALA:C	1:A:26:LYS:N	2.65	0.48
1:B:1059:ASN:O	1:B:1060:ARG:HB2	2.12	0.48
1:C:1281:VAL:HA	1:C:1301:SER:O	2.13	0.48
1:E:1281:VAL:HA	1:E:1301:SER:O	2.13	0.48
1:E:1038:ILE:O	1:E:1038:ILE:CG2	2.61	0.48
1:E:54:PHE:HA	1:E:199:ARG:HD2	1.94	0.48
1:E:1359:GLY:O	1:E:1360:CYS:HB3	2.12	0.48
1:E:1326:THR:HG22	1:E:1329:TYR:HB2	1.95	0.48
1:F:1310:THR:HG22	1:F:1311:THR:HG22	1.95	0.48
1:C:1091:GLY:C	1:C:1092:ILE:HG13	2.34	0.48
1:E:552:THR:O	1:E:552:THR:HG22	2.14	0.48
1:A:1326:THR:HG22	1:A:1329:TYR:HB2	1.95	0.48
1:D:354:ARG:NH2	1:D:1292:ALA:O	2.46	0.48
1:E:633:ARG:NH2	1:E:737:GLU:O	2.38	0.48
1:E:858:MET:HA	4:E:2474:FMN:N5	2.29	0.48
1:E:1110:SER:C	1:E:1112:THR:HG23	2.32	0.48
1:A:1374:VAL:C	1:A:1375:ILE:CG1	2.82	0.48
1:A:1447:TRP:HA	1:A:1447:TRP:CE3	2.48	0.48
2:L:345:ILE:HG12	2:L:345:ILE:O	2.13	0.48
2:L:353:PHE:CE1	2:L:370:GLY:CA	2.96	0.48
1:E:522:LEU:CG	1:E:705:LEU:HD21	2.38	0.48
1:B:820:ARG:HB3	1:B:821:PRO:HD3	1.94	0.48
1:E:1395:TYR:CD2	1:E:1443:ILE:HD13	2.48	0.48
1:D:260:MET:O	1:D:261:GLN:C	2.48	0.48
1:A:631:LEU:N	1:A:631:LEU:HD23	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:746:ILE:CG2	1:F:1182:ASP:CB	2.86	0.48
1:A:550:LEU:HD13	1:A:555:PHE:HA	1.95	0.48
2:G:124:GLU:O	2:G:127:ILE:HG23	2.14	0.48
1:C:1349:ARG:NH1	1:C:1349:ARG:CG	2.75	0.48
1:F:1401:LEU:HD11	1:F:1405:ILE:HB	1.94	0.48
2:K:186:LEU:HD23	2:K:195:LEU:CG	2.43	0.48
2:K:92:GLU:HG3	2:K:203:ARG:HH12	1.78	0.48
2:K:65:ILE:N	2:K:66:PRO:HD2	2.28	0.48
2:K:68:TRP:CD1	2:K:69:LEU:N	2.80	0.48
2:H:324:ARG:NH1	2:H:324:ARG:HB3	2.28	0.48
2:J:415:LEU:HD23	2:J:432:THR:HG23	1.94	0.48
2:I:264:TYR:HD2	2:I:265:LEU:HD23	1.79	0.48
1:B:290:THR:HG22	1:B:293:MET:H	1.78	0.48
2:G:331:GLN:HA	2:G:334:VAL:HG22	1.93	0.48
2:G:320:TYR:HD2	2:G:346:TRP:CG	2.31	0.48
1:F:290:THR:HG22	1:F:293:MET:H	1.78	0.48
2:L:212:VAL:CG2	2:L:214:TYR:CE1	2.95	0.48
2:L:434:MET:CB	2:L:437:VAL:HG12	2.42	0.48
2:L:65:ILE:N	2:L:66:PRO:HD2	2.28	0.48
2:L:91:PRO:HD2	2:L:203:ARG:HH21	1.79	0.48
2:L:264:TYR:HD2	2:L:265:LEU:HD23	1.79	0.48
1:D:242:ASN:HA	1:D:245:LYS:HG3	1.95	0.48
1:A:80:ARG:O	1:A:80:ARG:HG3	2.12	0.48
1:E:1052:VAL:O	1:E:1053:HIS:C	2.51	0.48
1:D:402:ARG:O	1:D:403:ASP:C	2.51	0.48
1:D:634:SER:O	1:D:635:ASN:C	2.52	0.48
1:B:856:PRO:HB3	4:B:2474:FMN:H3'	1.95	0.48
1:C:537:GLU:C	1:C:539:GLN:H	2.15	0.48
1:B:347:ARG:HH11	1:B:347:ARG:HB2	1.79	0.48
2:K:277:VAL:CG1	2:K:279:ALA:H	2.26	0.48
1:D:353:MET:CE	1:D:366:GLY:O	2.60	0.48
1:D:978:GLU:O	1:D:981:ALA:HB3	2.13	0.48
1:C:805:ASP:O	1:C:805:ASP:CG	2.49	0.48
1:C:54:PHE:HA	1:C:199:ARG:HD2	1.94	0.48
1:A:54:PHE:HA	1:A:199:ARG:HD2	1.94	0.48
1:B:354:ARG:NH2	1:B:1292:ALA:O	2.46	0.48
1:F:196:LEU:HD23	1:F:196:LEU:HA	1.55	0.48
1:A:876:ASN:CG	1:C:1227:GLU:OE2	2.52	0.48
1:B:1131:THR:CG2	1:B:1133:GLU:H	2.27	0.48
2:L:323:ASP:HB2	2:L:348:ALA:C	2.34	0.48
2:L:302:MET:SD	2:L:333:GLU:HG3	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:330:SER:O	2:K:334:VAL:HG22	2.14	0.48
1:D:550:LEU:HB3	1:D:554:GLU:HG3	1.96	0.48
1:E:266:VAL:CG1	1:E:279:THR:HG23	2.33	0.48
1:F:727:ALA:HB3	1:F:744:SER:HB2	1.95	0.48
1:F:465:LEU:HD21	1:F:675:ILE:HG13	1.95	0.48
2:G:432:THR:HB	2:G:437:VAL:O	2.13	0.48
2:G:85:GLN:CD	2:G:91:PRO:HG3	2.34	0.48
1:E:52:GLN:NE2	1:E:71:LEU:HB2	2.27	0.48
2:I:327:MET:HG2	2:I:334:VAL:HG11	1.96	0.48
2:K:153:ILE:HG12	2:K:220:VAL:HG22	1.96	0.48
2:K:454:ILE:C	2:K:454:ILE:HD13	2.33	0.48
2:H:323:ASP:HB2	2:H:348:ALA:C	2.34	0.48
2:I:124:GLU:O	2:I:127:ILE:HG23	2.14	0.48
2:J:146:LEU:HD22	2:J:146:LEU:N	2.26	0.48
2:J:175:VAL:HG11	2:J:214:TYR:CG	2.47	0.48
2:G:367:ILE:HD13	2:G:368:HIS:C	2.34	0.48
2:G:257:ASN:HD21	2:G:394:LEU:CA	2.27	0.48
2:L:150:VAL:HG13	2:L:173:VAL:CA	2.38	0.48
1:D:290:THR:HG22	1:D:293:MET:H	1.78	0.48
2:H:454:ILE:HD13	2:H:454:ILE:C	2.33	0.48
1:C:960:THR:CG2	1:C:963:VAL:HG21	2.42	0.48
1:B:295:LYS:CB	1:B:390:MET:HE1	2.44	0.48
1:A:345:MET:HE2	1:A:385:LEU:CB	2.43	0.48
1:C:213:THR:O	1:C:214:ASN:ND2	2.43	0.48
1:E:538:THR:O	1:E:538:THR:HG23	2.13	0.48
1:C:87:GLU:O	1:C:90:ARG:N	2.47	0.48
1:C:191:PHE:CE1	1:C:192:TYR:CE1	3.01	0.48
1:F:1059:ASN:O	1:F:1060:ARG:HB2	2.12	0.48
1:D:107:TRP:HD1	1:D:107:TRP:H	1.60	0.48
1:E:1396:ASP:OD1	1:E:1399:ASP:N	2.47	0.48
1:C:466:HIS:HB3	1:C:467:PRO:HD3	1.94	0.48
1:E:1417:VAL:HG12	1:E:1418:GLY:N	2.27	0.48
1:C:917:VAL:HG13	1:C:922:LEU:HD21	1.95	0.48
1:D:1163:GLY:O	1:D:1165:THR:N	2.45	0.48
1:B:698:LYS:O	1:B:698:LYS:HG2	2.13	0.48
1:A:858:MET:HA	4:A:2474:FMN:N5	2.29	0.48
1:A:1228:LYS:CB	1:E:900:GLY:C	2.82	0.48
1:B:875:MET:HE3	1:B:880:ALA:HB3	1.95	0.48
1:C:876:ASN:CG	1:E:1227:GLU:OE2	2.52	0.48
1:C:900:GLY:C	1:E:1228:LYS:CB	2.82	0.48
1:A:1425:LYS:CE	1:A:1447:TRP:CD1	2.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1447:TRP:O	1:A:1451:VAL:HG23	2.14	0.48
2:L:330:SER:O	2:L:334:VAL:HG22	2.14	0.48
2:J:353:PHE:CE1	2:J:370:GLY:CA	2.96	0.48
1:A:509:PRO:O	1:A:509:PRO:HG2	2.14	0.48
1:A:636:LEU:O	1:A:637:ARG:C	2.50	0.48
1:F:1131:THR:CG2	1:F:1133:GLU:H	2.27	0.48
1:D:727:ALA:HB3	1:D:744:SER:HB2	1.95	0.48
2:G:91:PRO:HD2	2:G:203:ARG:HH21	1.79	0.48
1:E:1212:ASP:HB3	1:E:1245:ARG:HB3	1.96	0.48
2:I:174:HIS:CD2	2:I:176:TYR:CZ	3.01	0.48
2:J:240:THR:HG1	8:J:484:FAD:C5A	2.26	0.48
2:J:432:THR:HB	2:J:437:VAL:O	2.13	0.48
2:J:92:GLU:HG3	2:J:203:ARG:HH12	1.78	0.48
1:C:1243:GLY:O	1:C:1246:LEU:N	2.47	0.48
2:L:124:GLU:O	2:L:127:ILE:HG23	2.14	0.48
2:L:250:ALA:CB	2:L:251:PRO:HD2	2.35	0.48
2:L:257:ASN:HD21	2:L:394:LEU:CA	2.27	0.48
2:H:145:GLU:O	2:H:145:GLU:HG2	2.12	0.48
2:H:175:VAL:HG11	2:H:214:TYR:CG	2.47	0.48
1:C:345:MET:HG2	1:C:349:GLY:HA2	1.95	0.48
1:D:515:ARG:NE	1:D:1367:TYR:HE1	2.09	0.48
1:D:389:GLU:CA	1:D:403:ASP:OD2	2.61	0.48
1:E:561:TYR:C	1:E:561:TYR:CD1	2.86	0.48
1:A:538:THR:O	1:A:538:THR:HG23	2.13	0.48
1:A:15:ARG:HG3	1:A:19:GLU:HG3	1.94	0.48
1:D:302:ALA:HB2	1:D:347:ARG:HH11	1.76	0.48
1:D:582:LEU:HB2	1:D:755:GLN:HE21	1.79	0.48
1:F:621:ILE:HG13	1:F:658:LEU:HD12	1.93	0.48
2:I:277:VAL:CG1	2:I:279:ALA:H	2.26	0.48
1:B:794:VAL:CG1	1:B:795:ILE:N	2.74	0.48
1:A:74:GLY:HA2	1:A:172:LEU:HD13	1.96	0.48
1:F:868:HIS:HB3	1:F:869:GLY:H	1.57	0.48
1:A:1038:ILE:O	1:A:1038:ILE:CG2	2.61	0.48
1:C:1038:ILE:CG2	1:C:1038:ILE:O	2.61	0.48
1:B:953:ILE:O	1:B:955:ARG:N	2.47	0.48
1:F:953:ILE:O	1:F:955:ARG:N	2.47	0.48
1:B:1407:ASP:O	1:B:1409:SER:N	2.47	0.48
1:D:428:GLU:O	1:D:429:LEU:C	2.51	0.48
1:F:476:ILE:HA	1:F:1034:PRO:HA	1.94	0.48
1:E:68:ASP:OD1	1:E:68:ASP:N	2.44	0.48
1:B:595:ASP:O	1:B:596:ALA:C	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3:VAL:HG22	1:C:231:ASN:HB2	1.96	0.48
1:A:479:MET:HG3	1:A:1104:MET:HE1	1.94	0.48
1:C:492:TYR:CD1	1:C:492:TYR:C	2.86	0.48
1:B:731:SER:HA	1:B:747:SER:CB	2.43	0.48
1:B:1427:LEU:O	1:B:1430:GLU:N	2.46	0.48
1:E:182:MET:CE	1:E:217:PRO:O	2.62	0.48
1:C:1425:LYS:CE	1:C:1447:TRP:CD1	2.97	0.48
1:C:664:THR:HA	1:C:720:ARG:HE	1.77	0.48
2:G:110:ILE:HG13	2:G:117:ALA:CA	2.35	0.48
1:E:1425:LYS:CE	1:E:1447:TRP:CD1	2.97	0.48
1:C:1184:ASN:O	1:C:1186:ARG:N	2.46	0.48
1:C:227:MET:CE	1:C:282:GLU:CG	2.88	0.48
1:C:248:GLU:C	1:C:250:ARG:N	2.65	0.48
2:G:153:ILE:HG12	2:G:220:VAL:HG22	1.96	0.48
2:G:455:ARG:O	2:G:458:ARG:HB2	2.14	0.48
2:J:264:TYR:HD2	2:J:265:LEU:HD23	1.79	0.48
2:I:324:ARG:HB3	2:I:324:ARG:NH1	2.28	0.48
2:K:85:GLN:CD	2:K:91:PRO:HG3	2.34	0.48
2:J:153:ILE:HG12	2:J:220:VAL:HG22	1.96	0.48
2:J:71:LEU:HA	2:J:74:GLU:HG2	1.95	0.48
2:I:257:ASN:HD21	2:I:394:LEU:CA	2.27	0.48
2:G:324:ARG:HA	2:G:346:TRP:CZ2	2.46	0.48
2:G:327:MET:HG2	2:G:334:VAL:HG11	1.96	0.48
2:L:77:LEU:HD23	2:L:127:ILE:HD12	1.96	0.48
2:H:71:LEU:HA	2:H:74:GLU:HG2	1.95	0.48
1:A:345:MET:HE1	1:A:385:LEU:HB2	1.96	0.48
1:E:345:MET:HG2	1:E:349:GLY:HA2	1.95	0.48
1:F:1075:THR:O	1:F:1076:GLY:C	2.50	0.48
1:E:80:ARG:HG3	1:E:80:ARG:O	2.12	0.48
1:C:173:SER:HG	1:C:176:SER:H	1.61	0.48
1:C:1369:THR:O	1:C:1369:THR:HG22	2.14	0.48
2:J:197:LYS:HG2	2:J:273:LEU:CD1	2.43	0.48
2:J:150:VAL:HG13	2:J:173:VAL:CA	2.38	0.48
1:A:653:HIS:O	1:A:654:TYR:C	2.51	0.48
1:F:823:MET:C	1:F:824:GLN:HE21	2.16	0.48
1:B:823:MET:C	1:B:824:GLN:HE21	2.17	0.48
1:A:191:PHE:CE1	1:A:192:TYR:CE1	3.01	0.48
1:F:105:TYR:CD1	1:F:105:TYR:N	2.81	0.48
1:F:1325:ASN:O	1:F:1326:THR:HB	2.14	0.48
1:D:1057:THR:HG22	1:D:1058:LEU:N	2.22	0.48
1:B:1325:ASN:O	1:B:1326:THR:HB	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:369:THR:CG2	1:A:370:GLY:N	2.76	0.48
1:A:676:ALA:O	1:A:677:GLU:C	2.50	0.48
1:F:1396:ASP:OD1	1:F:1396:ASP:O	2.32	0.48
1:A:97:ILE:HD13	1:A:133:VAL:HG21	1.95	0.48
1:C:1359:GLY:O	1:C:1360:CYS:CB	2.58	0.48
1:D:1204:ARG:O	1:D:1205:ASN:C	2.51	0.48
1:A:633:ARG:NH2	1:A:737:GLU:O	2.38	0.48
1:B:1153:LEU:HD23	1:B:1153:LEU:HA	1.42	0.48
1:E:1091:GLY:C	1:E:1092:ILE:HG13	2.34	0.48
1:F:472:GLY:O	1:F:473:LYS:HG3	2.14	0.48
1:D:110:VAL:CG2	1:D:130:GLN:HG3	2.43	0.48
2:J:110:ILE:HG13	2:J:117:ALA:CA	2.35	0.48
2:L:367:ILE:HD13	2:L:368:HIS:C	2.34	0.48
1:C:1447:TRP:O	1:C:1451:VAL:HG23	2.14	0.48
2:J:323:ASP:HB2	2:J:348:ALA:C	2.34	0.48
1:D:1105:VAL:HG22	1:D:1105:VAL:O	2.14	0.48
1:D:780:ARG:NH2	2:H:54:PHE:CD1	2.78	0.48
1:E:509:PRO:HG2	1:E:509:PRO:O	2.14	0.48
1:C:970:PRO:O	1:C:970:PRO:CG	2.60	0.48
2:K:367:ILE:HD12	2:K:369:LEU:HD11	1.93	0.48
1:E:1184:ASN:O	1:E:1186:ARG:N	2.46	0.48
1:B:452:GLN:CG	1:B:764:THR:HG22	2.43	0.48
2:G:241:GLY:CA	2:G:443:ILE:HG23	2.44	0.48
2:J:181:ARG:HD2	2:J:182:MET:N	2.29	0.48
2:K:432:THR:HB	2:K:437:VAL:O	2.13	0.48
2:H:327:MET:HG2	2:H:334:VAL:HG11	1.96	0.48
2:I:460:ALA:O	2:I:464:ILE:HD12	2.14	0.48
2:J:77:LEU:HD23	2:J:127:ILE:HD12	1.96	0.48
2:J:145:GLU:HG2	2:J:145:GLU:O	2.12	0.48
2:J:164:GLU:HB2	2:J:207:LEU:HD13	1.96	0.48
2:J:91:PRO:HD2	2:J:203:ARG:HH22	1.76	0.48
1:A:1212:ASP:HB3	1:A:1245:ARG:HB3	1.96	0.48
2:G:345:ILE:HG12	2:G:345:ILE:O	2.13	0.48
2:H:186:LEU:HD23	2:H:195:LEU:CG	2.43	0.48
2:H:455:ARG:O	2:H:458:ARG:HB2	2.14	0.48
2:H:469:LYS:HD2	2:H:476:VAL:CB	2.39	0.48
2:L:148:LEU:CB	2:L:234:VAL:HG23	2.44	0.48
1:E:236:THR:HG22	1:E:328:ASP:N	2.26	0.48
1:F:515:ARG:HD3	1:F:1367:TYR:CE1	2.40	0.48
1:A:345:MET:HG2	1:A:349:GLY:HA2	1.95	0.48
1:F:690:GLU:CD	1:F:690:GLU:H	2.15	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:856:PRO:HB3	4:D:2474:FMN:H3'	1.95	0.48
1:C:15:ARG:HG3	1:C:19:GLU:HG3	1.94	0.48
1:C:653:HIS:O	1:C:654:TYR:C	2.51	0.48
1:C:110:VAL:HG12	1:C:111:PRO:N	2.28	0.48
1:C:369:THR:CG2	1:C:370:GLY:N	2.76	0.48
1:B:474:GLU:O	1:B:475:ALA:C	2.52	0.48
1:F:651:ASP:N	1:F:651:ASP:OD1	2.38	0.48
1:E:917:VAL:HG13	1:E:922:LEU:HD21	1.95	0.48
1:E:485:ILE:HG12	1:E:488:LEU:HD12	1.95	0.48
1:B:1228:LYS:HD3	1:D:901:ASP:OD2	2.13	0.48
1:A:780:ARG:NH2	2:J:109:VAL:HG11	2.29	0.48
1:E:482:ASP:OD1	1:E:788:HIS:HB3	2.13	0.48
1:C:442:MET:CE	1:C:447:LEU:CA	2.92	0.48
1:C:780:ARG:HH21	2:K:54:PHE:HD1	1.60	0.48
1:B:746:ILE:CG2	1:B:1182:ASP:CB	2.86	0.48
2:L:327:MET:HG2	2:L:334:VAL:HG11	1.96	0.48
1:E:664:THR:HA	1:E:720:ARG:HE	1.77	0.48
1:A:513:SER:HB2	1:A:520:MET:CE	2.43	0.48
1:E:1374:VAL:C	1:E:1375:ILE:CG1	2.82	0.48
1:F:826:ARG:HD2	1:F:1078:ASP:OD1	2.14	0.48
1:D:452:GLN:HE21	1:D:764:THR:HG23	1.65	0.48
2:H:264:TYR:HD2	2:H:265:LEU:HD23	1.79	0.48
2:G:145:GLU:O	2:G:145:GLU:HG2	2.12	0.48
2:G:68:TRP:CD1	2:G:69:LEU:N	2.80	0.48
2:K:257:ASN:HD21	2:K:394:LEU:CA	2.27	0.48
1:A:746:ILE:HG23	1:A:1182:ASP:N	2.21	0.48
2:I:330:SER:O	2:I:334:VAL:HG22	2.14	0.48
2:K:71:LEU:HA	2:K:74:GLU:HG2	1.95	0.48
2:H:321:ARG:HH11	2:H:322:ARG:CZ	2.27	0.48
1:E:1243:GLY:O	1:E:1246:LEU:N	2.47	0.48
1:C:1243:GLY:O	1:C:1244:THR:C	2.49	0.48
2:L:174:HIS:CD2	2:L:176:TYR:CZ	3.01	0.48
2:L:164:GLU:HB2	2:L:207:LEU:HD13	1.96	0.48
2:H:174:HIS:NE2	2:H:176:TYR:CD2	2.82	0.48
2:H:153:ILE:HG12	2:H:220:VAL:HG22	1.96	0.48
1:B:242:ASN:HA	1:B:245:LYS:HG3	1.95	0.48
1:D:295:LYS:HB3	1:D:390:MET:HE1	1.96	0.48
1:A:353:MET:CE	1:A:366:GLY:C	2.82	0.48
1:E:353:MET:CE	1:E:366:GLY:C	2.82	0.48
1:F:417:ASP:HA	1:F:420:VAL:HG12	1.95	0.48
1:D:963:VAL:CG1	1:D:964:MET:H	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:561:TYR:CD1	1:A:561:TYR:C	2.86	0.48
1:E:218:THR:CG2	1:E:221:LEU:H	2.27	0.48
1:F:572:THR:CG2	1:F:615:ARG:HB3	2.42	0.48
1:C:51:PRO:HG3	1:C:200:PHE:CD2	2.48	0.48
1:F:582:LEU:HB2	1:F:755:GLN:HE21	1.79	0.48
1:E:918:THR:HG22	1:E:920:GLU:N	2.26	0.48
1:E:369:THR:CG2	1:E:370:GLY:N	2.76	0.48
1:C:965:LEU:HA	1:C:965:LEU:HD23	1.33	0.48
1:E:499:PHE:HE2	1:E:742:MET:CE	2.26	0.48
1:C:508:ASN:HB2	1:C:509:PRO:HD2	1.94	0.48
1:C:97:ILE:HD13	1:C:133:VAL:HG21	1.95	0.48
1:A:485:ILE:HG12	1:A:488:LEU:HD12	1.95	0.48
1:B:472:GLY:O	1:B:473:LYS:HG3	2.14	0.48
1:E:429:LEU:O	1:E:429:LEU:HG	2.14	0.48
1:F:1195:ASN:H	1:F:1195:ASN:HD22	1.62	0.48
1:B:476:ILE:HA	1:B:1034:PRO:HA	1.94	0.48
1:D:1310:THR:HG22	1:D:1311:THR:HG22	1.95	0.48
1:A:877:ARG:HD3	1:C:1230:GLN:CB	2.34	0.47
1:C:1219:ALA:C	1:C:1221:PRO:HD2	2.33	0.47
1:A:182:MET:CE	1:A:217:PRO:O	2.62	0.47
1:B:216:PHE:HA	1:B:217:PRO:HD3	1.76	0.47
1:F:1105:VAL:HG22	1:F:1105:VAL:O	2.14	0.47
1:C:522:LEU:CG	1:C:705:LEU:HD21	2.38	0.47
1:B:1401:LEU:O	1:B:1401:LEU:CD1	2.38	0.47
2:K:174:HIS:NE2	2:K:176:TYR:CD2	2.82	0.47
2:H:330:SER:O	2:H:334:VAL:HG22	2.14	0.47
2:H:181:ARG:HD2	2:H:182:MET:N	2.29	0.47
2:I:150:VAL:HG13	2:I:173:VAL:CA	2.38	0.47
2:I:153:ILE:HG12	2:I:220:VAL:HG22	1.96	0.47
2:I:175:VAL:HG11	2:I:214:TYR:CG	2.47	0.47
2:I:241:GLY:CA	2:I:443:ILE:HG23	2.44	0.47
2:I:71:LEU:HA	2:I:74:GLU:HG2	1.95	0.47
2:J:144:ARG:HH11	2:J:169:LYS:CA	2.27	0.47
2:J:423:LEU:CD2	2:J:423:LEU:H	2.25	0.47
1:A:1243:GLY:O	1:A:1246:LEU:N	2.47	0.47
2:G:324:ARG:NH1	2:G:324:ARG:HB3	2.28	0.47
2:G:330:SER:O	2:G:334:VAL:HG22	2.14	0.47
2:G:353:PHE:CE1	2:G:370:GLY:CA	2.96	0.47
2:L:450:VAL:HG13	2:L:451:VAL:N	2.28	0.47
2:L:460:ALA:O	2:L:464:ILE:HD12	2.14	0.47
2:H:423:LEU:H	2:H:423:LEU:CD2	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:704:LEU:O	1:D:707:ILE:N	2.47	0.47
2:I:148:LEU:CB	2:I:234:VAL:HG23	2.44	0.47
1:D:1075:THR:O	1:D:1076:GLY:C	2.50	0.47
1:B:235:ASN:HB3	1:B:508:ASN:HD21	1.79	0.47
1:F:856:PRO:HB3	4:F:2474:FMN:H3'	1.95	0.47
1:B:766:TYR:C	1:B:768:GLU:H	2.18	0.47
1:E:218:THR:O	1:E:218:THR:HG22	2.08	0.47
1:C:1117:VAL:HG12	1:C:1118:CYS:N	2.29	0.47
2:K:141:THR:HB	2:K:142:PRO:CD	2.40	0.47
1:B:582:LEU:HB2	1:B:755:GLN:HE21	1.79	0.47
1:D:465:LEU:HD21	1:D:675:ILE:HG13	1.95	0.47
1:C:1414:ARG:NH2	1:C:1455:TRP:CZ2	2.82	0.47
1:D:211:TYR:O	1:D:212:SER:CB	2.58	0.47
1:E:990:ILE:HG23	1:E:991:ASN:N	2.29	0.47
1:E:9:ILE:O	1:E:398:GLY:HA2	2.14	0.47
1:E:661:VAL:CG1	1:E:661:VAL:O	2.61	0.47
1:A:9:ILE:O	1:A:398:GLY:HA2	2.14	0.47
1:D:953:ILE:O	1:D:955:ARG:N	2.47	0.47
1:D:1396:ASP:O	1:D:1396:ASP:OD1	2.32	0.47
1:F:1068:ARG:NH2	1:F:1089:GLU:OE1	2.46	0.47
1:E:498:PHE:CD1	1:E:498:PHE:N	2.82	0.47
1:A:286:ARG:HA	1:A:286:ARG:HD3	1.60	0.47
1:F:428:GLU:O	1:F:429:LEU:C	2.51	0.47
1:D:1228:LYS:HB2	1:F:900:GLY:C	2.33	0.47
1:A:1227:GLU:OE2	1:E:876:ASN:CG	2.52	0.47
1:B:1170:GLN:HB2	1:B:1183:LEU:HD12	1.96	0.47
2:L:324:ARG:HB3	2:L:324:ARG:NH1	2.28	0.47
2:J:321:ARG:HH11	2:J:322:ARG:CZ	2.27	0.47
1:A:1030:THR:HG21	1:A:1033:SER:HB3	1.95	0.47
2:K:321:ARG:HH11	2:K:322:ARG:CZ	2.27	0.47
2:K:367:ILE:HD13	2:K:368:HIS:C	2.34	0.47
2:G:77:LEU:HD23	2:G:127:ILE:HD12	1.96	0.47
2:I:323:ASP:HB2	2:I:348:ALA:C	2.34	0.47
2:I:345:ILE:O	2:I:345:ILE:HG12	2.13	0.47
2:K:241:GLY:CA	2:K:443:ILE:HG23	2.44	0.47
2:I:164:GLU:HB2	2:I:207:LEU:HD13	1.96	0.47
2:I:416:LYS:HZ2	2:I:433:ASN:HB2	1.78	0.47
2:I:85:GLN:CD	2:I:91:PRO:HG3	2.34	0.47
2:J:124:GLU:O	2:J:127:ILE:HG23	2.14	0.47
2:G:348:ALA:HB1	2:G:373:ASP:HA	1.97	0.47
2:L:68:TRP:CD1	2:L:69:LEU:N	2.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:92:GLU:HG3	2:H:203:ARG:HH12	1.78	0.47
2:H:153:ILE:HG12	2:H:220:VAL:HG11	1.97	0.47
2:H:415:LEU:HD23	2:H:432:THR:HG23	1.94	0.47
2:H:450:VAL:HG13	2:H:451:VAL:N	2.28	0.47
2:H:161:ALA:CB	2:H:454:ILE:HG12	2.40	0.47
2:H:77:LEU:HD23	2:H:127:ILE:HD12	1.96	0.47
2:H:91:PRO:HD2	2:H:203:ARG:HH22	1.76	0.47
2:I:181:ARG:HD2	2:I:182:MET:N	2.29	0.47
2:J:243:TYR:CZ	2:J:405:ASP:HB3	2.49	0.47
2:G:243:TYR:CZ	2:G:405:ASP:HB3	2.49	0.47
2:K:243:TYR:CZ	2:K:405:ASP:HB3	2.49	0.47
1:F:1008:THR:O	1:F:1011:ALA:HB3	2.14	0.47
1:C:1214:ARG:O	1:C:1215:ILE:C	2.52	0.47
1:F:912:SER:CB	1:F:968:PRO:O	2.63	0.47
1:B:381:GLU:CD	1:B:402:ARG:NH1	2.67	0.47
1:A:214:ASN:O	1:A:1015:LYS:CE	2.53	0.47
1:B:908:LYS:HB3	1:B:921:TYR:CZ	2.49	0.47
2:L:197:LYS:HG2	2:L:273:LEU:CD1	2.43	0.47
1:E:87:GLU:O	1:E:90:ARG:N	2.47	0.47
1:A:1414:ARG:NH2	1:A:1455:TRP:CZ2	2.82	0.47
1:C:909:GLN:NE2	1:C:929:GLU:OE1	2.46	0.47
1:B:162:GLU:CB	1:B:164:ILE:HD12	2.44	0.47
1:D:1407:ASP:O	1:D:1409:SER:N	2.47	0.47
1:A:1326:THR:HG22	1:A:1326:THR:O	2.15	0.47
1:B:814:SER:O	1:B:818:ASN:N	2.47	0.47
1:E:871:LEU:O	1:E:872:ASN:C	2.52	0.47
1:E:231:ASN:HB3	1:E:332:ALA:HB3	1.96	0.47
1:C:552:THR:HG22	1:C:552:THR:O	2.14	0.47
1:B:1201:LEU:H	1:B:1201:LEU:HD22	1.79	0.47
1:D:189:THR:HG23	1:D:189:THR:O	2.15	0.47
1:B:1195:ASN:H	1:B:1195:ASN:HD22	1.62	0.47
1:F:698:LYS:O	1:F:698:LYS:HG2	2.13	0.47
1:A:498:PHE:N	1:A:498:PHE:CD1	2.82	0.47
1:C:485:ILE:HG12	1:C:488:LEU:HD12	1.95	0.47
1:D:474:GLU:O	1:D:475:ALA:C	2.52	0.47
1:A:429:LEU:O	1:A:429:LEU:HG	2.14	0.47
1:C:1326:THR:HG22	1:C:1329:TYR:HB2	1.95	0.47
1:B:991:ASN:OD1	1:B:991:ASN:C	2.50	0.47
1:C:429:LEU:O	1:C:429:LEU:HG	2.14	0.47
1:A:442:MET:CE	1:A:447:LEU:CA	2.92	0.47
1:A:877:ARG:CD	1:C:1230:GLN:HB2	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1030:THR:HG21	1:C:1033:SER:HB3	1.95	0.47
1:B:1105:VAL:HG22	1:B:1105:VAL:O	2.14	0.47
1:F:731:SER:HA	1:F:747:SER:CB	2.43	0.47
1:D:1184:ASN:N	1:D:1185:PRO:HD2	2.30	0.47
2:J:257:ASN:HD21	2:J:394:LEU:CA	2.27	0.47
2:J:181:ARG:HD3	2:J:182:MET:O	2.13	0.47
2:I:331:GLN:OE1	2:I:332:ARG:HD3	2.15	0.47
2:K:416:LYS:NZ	2:K:433:ASN:HB2	2.29	0.47
2:I:174:HIS:NE2	2:I:176:TYR:CD2	2.82	0.47
2:I:432:THR:HB	2:I:437:VAL:HG13	1.95	0.47
2:J:91:PRO:HD2	2:J:203:ARG:HH21	1.79	0.47
1:A:1243:GLY:O	1:A:1244:THR:C	2.49	0.47
2:G:394:LEU:HD22	2:G:395:VAL:N	2.30	0.47
2:H:144:ARG:HH11	2:H:169:LYS:CA	2.27	0.47
1:F:235:ASN:HB3	1:F:508:ASN:HD21	1.79	0.47
1:B:419:TRP:O	1:B:540:THR:CG2	2.59	0.47
2:G:365:VAL:HG22	2:G:366:ARG:CG	2.40	0.47
1:D:235:ASN:HB3	1:D:508:ASN:HD21	1.79	0.47
2:H:365:VAL:HG22	2:H:366:ARG:CG	2.40	0.47
1:E:47:HIS:HE1	1:E:176:SER:CB	2.25	0.47
1:E:47:HIS:HB3	1:E:206:ILE:HB	1.96	0.47
1:D:826:ARG:HD2	1:D:1078:ASP:OD1	2.14	0.47
1:A:136:ASN:OD1	1:A:136:ASN:N	2.47	0.47
1:B:533:LEU:HA	1:B:533:LEU:HD23	1.42	0.47
1:D:908:LYS:HB3	1:D:921:TYR:CZ	2.49	0.47
1:A:218:THR:CG2	1:A:221:LEU:H	2.27	0.47
1:D:426:LEU:HD23	1:D:543:LEU:HB3	1.93	0.47
1:F:589:ILE:O	1:F:593:THR:OG1	2.28	0.47
2:L:141:THR:HB	2:L:142:PRO:CD	2.40	0.47
1:C:9:ILE:O	1:C:398:GLY:HA2	2.14	0.47
1:D:823:MET:C	1:D:824:GLN:HE21	2.17	0.47
1:C:87:GLU:O	1:C:88:ALA:C	2.53	0.47
1:E:918:THR:O	1:E:919:ALA:C	2.51	0.47
1:D:985:TYR:OH	1:D:1208:PRO:O	2.26	0.47
1:E:74:GLY:HA2	1:E:172:LEU:HD13	1.96	0.47
1:C:1057:THR:HG22	1:C:1058:LEU:N	2.28	0.47
1:E:370:GLY:CA	1:E:1237:ASN:HB3	2.45	0.47
1:B:1396:ASP:O	1:B:1396:ASP:OD1	2.32	0.47
1:B:629:THR:O	1:B:630:HIS:C	2.50	0.47
1:E:1326:THR:HG22	1:E:1326:THR:O	2.15	0.47
1:E:85:ALA:O	1:E:86:GLN:C	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:792:GLY:O	1:B:793:GLY:C	2.51	0.47
1:E:782:ARG:CB	2:L:52:VAL:HA	2.26	0.47
1:B:727:ALA:HB3	1:B:744:SER:HB2	1.95	0.47
1:B:1424:LEU:HD23	1:B:1428:ILE:HG13	1.96	0.47
1:C:896:PRO:CB	1:E:1226:GLY:CA	2.92	0.47
1:C:1428:ILE:HG22	1:C:1428:ILE:O	2.14	0.47
1:E:454:PHE:CD2	1:E:648:GLU:CA	2.97	0.47
1:C:513:SER:HB2	1:C:520:MET:CE	2.43	0.47
1:E:1447:TRP:HA	1:E:1447:TRP:CE3	2.48	0.47
1:A:251:MET:HB2	1:A:533:LEU:CD1	2.44	0.47
1:F:1170:GLN:HB2	1:F:1183:LEU:HD12	1.95	0.47
1:D:1047:MET:O	1:D:1048:GLY:C	2.53	0.47
1:D:1184:ASN:CB	1:D:1185:PRO:HD3	2.30	0.47
1:C:550:LEU:HD13	1:C:555:PHE:HA	1.95	0.47
2:G:316:VAL:CG1	2:G:342:VAL:HG22	2.45	0.47
2:K:264:TYR:HD2	2:K:265:LEU:HD23	1.79	0.47
2:K:394:LEU:HD22	2:K:395:VAL:N	2.30	0.47
2:H:350:PRO:CB	2:H:372:ALA:HB1	2.45	0.47
2:I:186:LEU:HD23	2:I:195:LEU:CG	2.43	0.47
2:J:432:THR:HB	2:J:437:VAL:HG13	1.95	0.47
2:J:241:GLY:CA	2:J:443:ILE:HG23	2.44	0.47
2:J:85:GLN:CD	2:J:91:PRO:HG3	2.34	0.47
2:G:321:ARG:HH11	2:G:322:ARG:CZ	2.27	0.47
2:L:394:LEU:HD22	2:L:395:VAL:N	2.30	0.47
2:H:164:GLU:HB2	2:H:207:LEU:HD13	1.96	0.47
2:H:243:TYR:CZ	2:H:405:ASP:HB3	2.49	0.47
1:B:912:SER:CB	1:B:968:PRO:O	2.62	0.47
1:D:878:ILE:HG21	1:D:1136:VAL:HG13	1.97	0.47
1:A:826:ARG:NH1	1:A:826:ARG:CG	2.57	0.47
1:E:1369:THR:O	1:E:1369:THR:HG22	2.13	0.47
1:D:1210:THR:CG2	1:D:1211:LEU:H	2.07	0.47
1:F:634:SER:O	1:F:635:ASN:C	2.52	0.47
1:D:615:ARG:NH1	1:D:615:ARG:HG2	2.30	0.47
1:C:9:ILE:HG13	1:C:361:GLY:C	2.35	0.47
1:E:78:LEU:HD12	1:E:129:GLU:HG3	1.97	0.47
1:C:316:LEU:O	1:C:317:ILE:C	2.53	0.47
1:A:110:VAL:HG12	1:A:111:PRO:N	2.28	0.47
1:A:1412:PHE:HD2	1:A:1455:TRP:CZ3	2.33	0.47
1:E:1414:ARG:NH2	1:E:1455:TRP:CZ2	2.82	0.47
2:J:277:VAL:CG1	2:J:279:ALA:H	2.26	0.47
1:D:1325:ASN:O	1:D:1326:THR:HB	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:107:TRP:H	1:B:107:TRP:HD1	1.60	0.47
1:A:31:ARG:HD2	1:A:368:GLU:OE2	2.15	0.47
1:E:1214:ARG:O	1:E:1215:ILE:C	2.52	0.47
1:E:160:LYS:O	1:E:161:GLY:C	2.50	0.47
1:D:698:LYS:O	1:D:698:LYS:HG2	2.13	0.47
1:A:552:THR:HG22	1:A:552:THR:O	2.14	0.47
1:F:117:ILE:HD13	1:F:117:ILE:HG23	1.35	0.47
1:A:871:LEU:O	1:A:872:ASN:C	2.52	0.47
1:B:878:ILE:HD13	1:B:878:ILE:HG21	1.66	0.47
1:C:182:MET:CE	1:C:217:PRO:O	2.62	0.47
2:J:297:GLY:HA2	2:J:320:TYR:HE1	1.80	0.47
1:C:510:PRO:HD2	1:C:970:PRO:CB	2.34	0.47
1:A:938:PRO:O	1:A:939:GLY:C	2.53	0.47
1:A:227:MET:HE3	1:A:282:GLU:HG2	1.96	0.47
2:K:324:ARG:HB3	2:K:324:ARG:NH1	2.28	0.47
1:F:728:ILE:CD1	1:F:1047:MET:CE	2.74	0.47
1:D:1170:GLN:HB2	1:D:1183:LEU:HD12	1.95	0.47
2:H:257:ASN:HD21	2:H:394:LEU:CA	2.27	0.47
2:H:297:GLY:HA2	2:H:320:TYR:HE1	1.80	0.47
2:I:144:ARG:HH11	2:I:169:LYS:CA	2.27	0.47
2:J:174:HIS:NE2	2:J:176:TYR:CD2	2.82	0.47
2:I:394:LEU:HD22	2:I:395:VAL:N	2.30	0.47
2:G:349:ALA:HB3	2:G:350:PRO:CD	2.39	0.47
2:G:148:LEU:CB	2:G:234:VAL:HG23	2.44	0.47
2:G:264:TYR:HD2	2:G:265:LEU:HD23	1.79	0.47
2:L:153:ILE:HG12	2:L:220:VAL:HG22	1.96	0.47
2:L:166:LEU:O	2:L:169:LYS:HB2	2.15	0.47
2:L:416:LYS:NZ	2:L:433:ASN:HB2	2.29	0.47
2:L:63:ASN:HD21	2:L:83:VAL:HG12	1.79	0.47
1:A:526:LEU:CD1	1:A:526:LEU:H	2.17	0.47
1:A:526:LEU:HB3	1:A:641:SER:HB3	1.97	0.47
2:I:181:ARG:O	2:I:182:MET:HE3	2.14	0.47
2:I:182:MET:HE2	2:I:216:PRO:CG	2.28	0.47
1:E:526:LEU:HB3	1:E:641:SER:HB3	1.97	0.47
1:B:525:ARG:HG3	1:B:544:GLN:HG3	1.97	0.47
1:F:227:MET:HE2	1:F:282:GLU:HG3	1.96	0.47
1:D:1077:ARG:CG	1:D:1078:ASP:N	2.77	0.47
1:D:1008:THR:HG22	1:D:1009:ILE:H	1.70	0.47
1:D:1008:THR:O	1:D:1011:ALA:HB3	2.14	0.47
1:A:1369:THR:CG2	1:A:1369:THR:O	2.63	0.47
1:F:908:LYS:HB3	1:F:921:TYR:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:37:ASP:OD1	1:D:39:LYS:N	2.34	0.47
1:C:454:PHE:CD2	1:C:648:GLU:CA	2.98	0.47
1:A:78:LEU:HD12	1:A:129:GLU:HG3	1.97	0.47
1:C:918:THR:HG22	1:C:920:GLU:N	2.26	0.47
1:C:1412:PHE:HD2	1:C:1455:TRP:CZ3	2.33	0.47
1:D:59:VAL:HG22	1:D:105:TYR:HD2	1.78	0.47
1:D:1417:VAL:HG12	1:D:1419:HIS:N	2.26	0.47
1:F:1216:VAL:HG11	1:F:1249:MET:CE	2.45	0.47
1:D:211:TYR:CD1	1:D:212:SER:N	2.80	0.47
1:A:1396:ASP:OD1	1:A:1399:ASP:N	2.47	0.47
1:E:736:ALA:O	1:E:737:GLU:C	2.53	0.47
1:A:1029:GLY:HA3	4:A:2474:FMN:HM81	1.97	0.47
1:D:1195:ASN:H	1:D:1195:ASN:HD22	1.62	0.47
1:F:189:THR:HG23	1:F:189:THR:O	2.14	0.47
1:A:160:LYS:O	1:A:161:GLY:C	2.50	0.47
1:E:446:GLU:O	1:E:449:ARG:N	2.48	0.47
2:K:54:PHE:HB3	2:K:107:ASN:CB	2.36	0.47
1:A:1424:LEU:HD21	1:A:1428:ILE:HD11	1.97	0.47
2:L:348:ALA:HB1	2:L:373:ASP:HA	1.96	0.47
2:J:367:ILE:HD13	2:J:368:HIS:C	2.34	0.47
2:J:348:ALA:HB1	2:J:373:ASP:HA	1.97	0.47
1:D:820:ARG:HB3	1:D:821:PRO:HD3	1.94	0.47
1:A:266:VAL:CG1	1:A:279:THR:HG23	2.33	0.47
1:E:636:LEU:C	1:E:638:THR:N	2.68	0.47
1:F:447:LEU:CD1	1:F:451:GLN:CD	2.83	0.47
2:G:174:HIS:NE2	2:G:176:TYR:CD2	2.82	0.47
2:G:164:GLU:HB2	2:G:207:LEU:HD13	1.96	0.47
1:C:1366:GLU:HG2	1:C:1367:TYR:CE2	2.47	0.47
2:K:480:ALA:O	2:K:481:GLU:HB3	2.14	0.47
2:I:455:ARG:O	2:I:458:ARG:HB2	2.14	0.47
2:J:153:ILE:HG12	2:J:220:VAL:HG11	1.97	0.47
2:J:186:LEU:HD23	2:J:195:LEU:CG	2.43	0.47
2:J:455:ARG:O	2:J:458:ARG:HB2	2.14	0.47
2:L:241:GLY:CA	2:L:443:ILE:HG23	2.44	0.47
2:H:85:GLN:CD	2:H:91:PRO:HG3	2.34	0.47
1:F:139:VAL:HG12	1:F:143:GLN:HB2	1.97	0.47
2:I:243:TYR:CZ	2:I:405:ASP:HB3	2.49	0.47
1:A:348:ASN:HB2	1:A:350:LEU:HG	1.96	0.47
1:C:295:LYS:CD	1:C:295:LYS:C	2.83	0.47
1:F:1010:ALA:HB2	1:F:1052:VAL:HG22	1.97	0.47
1:A:643:ASN:HB3	1:A:665:THR:HG21	1.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:218:THR:CG2	1:C:221:LEU:H	2.27	0.47
1:B:615:ARG:NH1	1:B:615:ARG:HG2	2.30	0.47
2:H:197:LYS:HG2	2:H:273:LEU:CD1	2.43	0.47
1:B:1128:PHE:CZ	1:B:1130:GLY:CA	2.93	0.47
1:E:316:LEU:O	1:E:317:ILE:C	2.53	0.47
2:G:480:ALA:O	2:G:481:GLU:HB3	2.14	0.47
1:D:1424:LEU:HD23	1:D:1428:ILE:HG13	1.96	0.47
1:E:31:ARG:HD2	1:E:368:GLU:OE2	2.15	0.47
1:F:162:GLU:CB	1:F:164:ILE:HD12	2.44	0.47
1:B:150:ILE:HG21	1:B:259:HIS:CG	2.50	0.47
1:D:629:THR:O	1:D:630:HIS:C	2.51	0.47
1:C:583:ARG:CZ	1:C:587:ARG:HH12	2.28	0.47
1:A:468:MET:HG2	1:A:699:ALA:HB1	1.97	0.47
1:C:1158:LEU:HD12	1:C:1158:LEU:HA	1.62	0.47
1:A:68:ASP:OD1	1:A:68:ASP:N	2.44	0.47
1:C:456:LEU:HA	1:C:456:LEU:HD23	1.65	0.47
1:C:935:GLY:HA3	1:C:1025:GLY:O	2.15	0.47
1:A:990:ILE:HG23	1:A:991:ASN:N	2.29	0.47
1:A:446:GLU:O	1:A:449:ARG:N	2.48	0.47
2:L:108:CYS:SG	2:L:118:VAL:CG2	3.03	0.47
1:E:442:MET:CE	1:E:447:LEU:CA	2.92	0.47
1:C:446:GLU:O	1:C:449:ARG:N	2.48	0.47
1:B:1047:MET:O	1:B:1048:GLY:C	2.53	0.47
1:B:1077:ARG:CG	1:B:1078:ASP:N	2.77	0.47
1:B:878:ILE:HG21	1:B:1136:VAL:HG13	1.96	0.47
1:B:900:GLY:HA2	1:F:1226:GLY:O	2.15	0.47
1:A:1428:ILE:HG22	1:A:1428:ILE:O	2.14	0.47
2:L:331:GLN:OE1	2:L:332:ARG:HD3	2.15	0.47
2:L:350:PRO:CB	2:L:372:ALA:HB1	2.45	0.47
2:J:330:SER:O	2:J:334:VAL:HG22	2.14	0.47
2:J:331:GLN:OE1	2:J:332:ARG:HD3	2.15	0.47
2:J:350:PRO:CB	2:J:372:ALA:HB1	2.45	0.47
1:C:631:LEU:HD23	1:C:631:LEU:N	2.29	0.47
1:C:531:ASN:C	1:C:533:LEU:H	2.18	0.47
1:D:1047:MET:HE2	1:D:1186:ARG:NH2	1.99	0.47
1:F:443:ASP:O	1:F:446:GLU:N	2.40	0.47
2:G:166:LEU:O	2:G:169:LYS:HB2	2.15	0.47
2:G:90:PHE:CZ	2:G:160:LEU:HB2	2.50	0.47
2:G:229:LEU:HD22	2:G:236:VAL:CG1	2.45	0.47
2:G:416:LYS:NZ	2:G:433:ASN:HB2	2.29	0.47
1:C:52:GLN:NE2	1:C:71:LEU:CB	2.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1349:ARG:CG	1:E:1349:ARG:NH1	2.75	0.47
1:E:515:ARG:HG3	1:E:515:ARG:H	1.52	0.47
2:K:181:ARG:HD2	2:K:182:MET:N	2.29	0.47
2:I:350:PRO:HB3	2:I:372:ALA:HB1	1.97	0.47
2:K:430:LYS:CE	2:K:456:ASP:HB3	2.43	0.47
2:K:455:ARG:O	2:K:458:ARG:HB2	2.14	0.47
2:K:124:GLU:O	2:K:127:ILE:HG23	2.14	0.47
2:K:144:ARG:HH11	2:K:169:LYS:CA	2.27	0.47
2:K:90:PHE:CE1	2:K:160:LEU:HB2	2.50	0.47
2:H:367:ILE:HD13	2:H:368:HIS:C	2.34	0.47
2:I:416:LYS:NZ	2:I:433:ASN:HB2	2.29	0.47
2:I:432:THR:HB	2:I:437:VAL:O	2.13	0.47
2:I:49:GLN:HE22	2:I:69:LEU:CB	2.28	0.47
2:J:90:PHE:CZ	2:J:160:LEU:HB2	2.50	0.47
2:G:350:PRO:HB3	2:G:372:ALA:HB1	1.97	0.47
1:C:1212:ASP:HB3	1:C:1245:ARG:HB3	1.96	0.47
2:L:432:THR:HB	2:L:437:VAL:O	2.13	0.47
2:L:230:ARG:NH2	2:L:434:MET:HE1	2.29	0.47
2:L:416:LYS:CE	2:L:433:ASN:HB2	2.45	0.47
1:F:704:LEU:O	1:F:707:ILE:N	2.47	0.47
2:H:90:PHE:CE1	2:H:160:LEU:HB2	2.50	0.47
1:D:520:MET:HA	1:D:714:SER:O	2.15	0.47
1:C:348:ASN:HB2	1:C:350:LEU:HG	1.96	0.47
1:A:1391:MET:HE1	1:A:1458:VAL:HG21	1.97	0.47
1:D:515:ARG:HD3	1:D:1367:TYR:CE1	2.40	0.47
1:F:227:MET:CE	1:F:282:GLU:CG	2.93	0.47
1:E:826:ARG:CG	1:E:826:ARG:HH11	1.97	0.47
1:E:242:ASN:H	1:E:242:ASN:HD22	1.61	0.47
1:A:295:LYS:C	1:A:295:LYS:CD	2.83	0.47
1:B:402:ARG:O	1:B:403:ASP:C	2.51	0.47
1:F:389:GLU:HA	1:F:403:ASP:OD2	2.15	0.47
1:C:1369:THR:CG2	1:C:1369:THR:O	2.63	0.47
2:L:316:VAL:CG1	2:L:342:VAL:HG22	2.45	0.47
2:K:316:VAL:CG1	2:K:342:VAL:HG22	2.45	0.47
2:H:316:VAL:CG1	2:H:342:VAL:HG22	2.45	0.47
1:A:559:ARG:NH1	1:A:568:GLU:OE2	2.48	0.47
2:J:316:VAL:CG1	2:J:342:VAL:HG22	2.45	0.47
1:A:386:GLY:N	1:A:389:GLU:OE2	2.48	0.47
1:B:689:LEU:HA	1:B:689:LEU:HD12	0.98	0.47
1:C:335:MET:HE3	1:C:342:VAL:HB	1.96	0.47
1:C:281:PHE:CZ	1:C:335:MET:HG2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:281:PHE:CZ	1:E:335:MET:HG2	2.50	0.47
1:A:602:THR:C	1:A:640:THR:CG2	2.83	0.47
1:C:602:THR:C	1:C:640:THR:CG2	2.83	0.47
1:C:463:LEU:HD23	1:C:463:LEU:HA	1.48	0.47
1:A:454:PHE:CD2	1:A:648:GLU:CA	2.98	0.47
1:C:317:ILE:C	1:C:321:ASN:HD22	2.18	0.47
1:E:528:ASN:C	1:E:529:LEU:HD23	2.35	0.47
1:C:1412:PHE:HD2	1:C:1455:TRP:CE3	2.33	0.47
1:A:1412:PHE:HD2	1:A:1455:TRP:CE3	2.33	0.47
1:B:621:ILE:HG12	1:B:657:VAL:HG11	1.97	0.47
1:F:175:ARG:HH11	1:F:175:ARG:CG	2.20	0.47
1:E:572:THR:HG22	1:E:615:ARG:NE	2.30	0.47
1:B:1216:VAL:HG11	1:B:1249:MET:CE	2.45	0.47
1:D:1424:LEU:O	1:D:1425:LYS:C	2.53	0.47
1:C:990:ILE:HG23	1:C:991:ASN:N	2.29	0.47
1:B:477:GLY:O	1:B:478:SER:HB3	2.15	0.47
1:B:1068:ARG:NH2	1:B:1089:GLU:OE1	2.46	0.47
1:E:468:MET:HG2	1:E:699:ALA:HB1	1.97	0.47
1:E:805:ASP:CG	1:E:805:ASP:O	2.49	0.47
1:E:805:ASP:OD1	1:E:805:ASP:O	2.33	0.47
1:D:630:HIS:O	1:D:631:LEU:C	2.49	0.47
1:B:632:ILE:HD12	1:B:632:ILE:HG23	1.66	0.47
1:F:486:ALA:O	1:F:487:VAL:C	2.51	0.47
1:B:486:ALA:O	1:B:487:VAL:C	2.51	0.47
1:A:1149:ILE:O	1:A:1149:ILE:HG22	2.12	0.47
1:E:1029:GLY:HA3	4:E:2474:FMN:HM81	1.97	0.47
1:C:1326:THR:O	1:C:1326:THR:HG22	2.15	0.47
1:D:814:SER:O	1:D:818:ASN:N	2.47	0.47
1:A:841:ASP:N	1:A:841:ASP:OD1	2.44	0.47
1:E:1149:ILE:CG2	1:E:1149:ILE:O	2.59	0.47
1:C:85:ALA:O	1:C:86:GLN:C	2.48	0.47
1:F:474:GLU:O	1:F:475:ALA:C	2.52	0.47
1:B:189:THR:O	1:B:189:THR:HG23	2.15	0.47
1:C:780:ARG:NH2	2:K:109:VAL:HG11	2.29	0.47
1:C:780:ARG:NH2	2:K:54:PHE:CD1	2.80	0.47
1:A:1230:GLN:HB2	1:E:877:ARG:CD	2.33	0.47
1:A:1226:GLY:CA	1:E:896:PRO:CB	2.92	0.47
1:B:826:ARG:HD2	1:B:1078:ASP:OD1	2.14	0.47
2:I:54:PHE:CB	2:I:107:ASN:HB3	2.39	0.47
1:D:1113:CYS:O	1:D:1114:PRO:C	2.48	0.47
1:C:710:LYS:CG	1:C:939:GLY:HA3	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1114:PRO:HB2	1:B:1115:VAL:HG23	1.97	0.47
1:E:1424:LEU:HD21	1:E:1428:ILE:HD11	1.97	0.47
1:E:1432:VAL:O	1:E:1433:THR:C	2.53	0.47
2:K:348:ALA:HB1	2:K:373:ASP:HA	1.97	0.47
1:F:1077:ARG:CG	1:F:1078:ASP:N	2.77	0.47
1:C:430:VAL:HG22	1:C:557:ALA:HB3	1.95	0.47
1:D:447:LEU:CD1	1:D:451:GLN:CD	2.83	0.47
2:G:460:ALA:O	2:G:464:ILE:HD12	2.14	0.47
2:G:63:ASN:HD21	2:G:83:VAL:HG12	1.79	0.47
2:I:77:LEU:HD23	2:I:127:ILE:HD12	1.96	0.47
2:L:49:GLN:HE22	2:L:69:LEU:CB	2.28	0.47
2:K:148:LEU:CB	2:K:234:VAL:HG23	2.44	0.47
1:C:526:LEU:HB3	1:C:641:SER:HB3	1.97	0.47
1:A:1458:VAL:HA	1:A:1459:PRO:HD3	1.65	0.47
2:L:243:TYR:CZ	2:L:405:ASP:HB3	2.49	0.47
2:K:365:VAL:HG22	2:K:366:ARG:CG	2.40	0.47
1:B:227:MET:CE	1:B:282:GLU:CG	2.93	0.47
1:C:1007:GLY:N	1:C:1051:GLU:OE2	2.41	0.47
1:B:572:THR:HG23	1:B:616:ALA:O	2.15	0.47
2:L:197:LYS:HZ3	2:L:275:ASP:HB3	1.78	0.47
1:E:335:MET:HE3	1:E:342:VAL:HB	1.97	0.47
1:E:602:THR:C	1:E:640:THR:CG2	2.83	0.47
1:E:603:HIS:N	1:E:640:THR:HG22	2.30	0.47
2:I:197:LYS:HZ3	2:I:275:ASP:HB3	1.79	0.47
1:D:347:ARG:HH11	1:D:347:ARG:HB2	1.79	0.47
1:A:87:GLU:O	1:A:88:ALA:C	2.53	0.47
1:B:511:ILE:CG2	1:B:512:ASP:N	2.74	0.47
1:C:116:ILE:HD13	1:C:190:THR:HG21	1.94	0.47
1:D:1216:VAL:HG11	1:D:1249:MET:CE	2.45	0.47
1:F:608:ASP:OD2	1:F:647:ALA:N	2.41	0.47
1:C:74:GLY:HA2	1:C:172:LEU:HD13	1.96	0.47
1:F:393:VAL:HG12	1:F:394:ASP:N	2.29	0.47
1:B:209:GLN:HG3	1:B:210:ARG:H	1.80	0.47
1:E:583:ARG:CZ	1:E:587:ARG:HH12	2.28	0.47
1:C:509:PRO:O	1:C:509:PRO:HG2	2.14	0.47
1:C:1029:GLY:HA3	4:C:2474:FMN:HM81	1.96	0.47
1:A:736:ALA:O	1:A:737:GLU:C	2.53	0.47
1:C:160:LYS:O	1:C:161:GLY:C	2.50	0.47
1:F:182:MET:HE1	1:F:217:PRO:C	2.35	0.47
1:A:1229:MET:CA	1:E:877:ARG:CG	2.80	0.47
1:C:1424:LEU:HD21	1:C:1428:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:108:CYS:SG	2:I:118:VAL:CG2	3.03	0.47
1:E:653:HIS:O	1:E:654:TYR:C	2.51	0.47
2:K:297:GLY:HA2	2:K:320:TYR:HE1	1.80	0.47
1:B:773:LEU:HG	1:B:773:LEU:H	1.47	0.47
2:H:394:LEU:HD22	2:H:395:VAL:N	2.30	0.47
2:G:153:ILE:HG12	2:G:220:VAL:HG11	1.97	0.47
2:G:416:LYS:CE	2:G:433:ASN:HB2	2.45	0.47
2:G:449:LEU:CD2	2:G:452:TRP:CG	2.93	0.47
2:I:229:LEU:HD22	2:I:236:VAL:CG1	2.45	0.47
2:I:423:LEU:HD22	2:I:423:LEU:N	2.28	0.47
2:I:423:LEU:CD2	2:I:423:LEU:H	2.25	0.47
2:L:90:PHE:CZ	2:L:160:LEU:HB2	2.50	0.47
2:L:174:HIS:NE2	2:L:176:TYR:CD2	2.82	0.47
2:L:229:LEU:HD22	2:L:236:VAL:CG1	2.45	0.47
2:L:432:THR:CG2	2:L:433:ASN:N	2.78	0.47
2:L:85:GLN:CD	2:L:91:PRO:HG3	2.34	0.47
2:H:124:GLU:O	2:H:127:ILE:HG23	2.14	0.47
2:H:432:THR:CG2	2:H:433:ASN:N	2.78	0.47
2:H:241:GLY:CA	2:H:443:ILE:HG23	2.44	0.47
1:F:30:HIS:CE1	1:F:368:GLU:OE2	2.68	0.47
1:F:236:THR:HG22	1:F:328:ASP:N	2.24	0.47
2:J:148:LEU:CB	2:J:234:VAL:HG23	2.44	0.47
1:D:419:TRP:O	1:D:540:THR:OG1	2.27	0.47
1:D:235:ASN:C	1:D:235:ASN:HD22	2.18	0.47
1:F:525:ARG:HG3	1:F:544:GLN:HG3	1.97	0.47
1:D:389:GLU:HA	1:D:403:ASP:OD2	2.15	0.47
1:B:634:SER:O	1:B:635:ASN:C	2.52	0.47
1:C:386:GLY:N	1:C:389:GLU:OE2	2.48	0.47
1:C:528:ASN:C	1:C:529:LEU:HD23	2.35	0.47
1:E:894:PHE:HD1	1:E:904:ASN:ND2	2.13	0.47
1:E:787:ARG:NH1	1:E:821:PRO:HB2	2.24	0.47
1:D:105:TYR:N	1:D:105:TYR:CD1	2.81	0.47
1:E:1412:PHE:HD2	1:E:1455:TRP:CE3	2.33	0.47
1:A:606:LEU:C	1:A:607:THR:CG2	2.83	0.47
1:A:572:THR:HG21	1:A:615:ARG:NE	2.30	0.47
1:D:1212:ASP:OD2	1:D:1243:GLY:CA	2.63	0.47
1:C:572:THR:HG21	1:C:615:ARG:NE	2.30	0.47
1:F:1424:LEU:HD22	1:F:1447:TRP:HH2	1.80	0.47
1:D:477:GLY:O	1:D:478:SER:HB3	2.15	0.47
1:C:31:ARG:HD2	1:C:368:GLU:OE2	2.15	0.47
1:C:393:VAL:HG12	1:C:394:ASP:N	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:25:LEU:HD21	1:D:207:TYR:HB2	1.97	0.47
1:D:860:MET:HE2	1:D:860:MET:HB2	1.82	0.47
1:E:348:ASN:HB2	1:E:350:LEU:HG	1.96	0.47
1:C:5:PHE:CE2	1:C:365:GLY:HA3	2.50	0.47
1:D:150:ILE:HG21	1:D:259:HIS:CG	2.50	0.47
1:C:805:ASP:O	1:C:805:ASP:OD1	2.33	0.47
1:C:203:ASP:N	1:C:203:ASP:OD1	2.44	0.47
1:F:792:GLY:O	1:F:793:GLY:C	2.51	0.47
2:K:266:THR:HG23	2:K:270:LYS:HZ2	1.79	0.47
1:D:472:GLY:O	1:D:473:LYS:HG3	2.14	0.47
2:J:108:CYS:SG	2:J:118:VAL:CG2	3.03	0.47
1:B:1424:LEU:HD22	1:B:1447:TRP:HH2	1.80	0.47
1:A:1397:LEU:HD22	1:A:1453:LYS:HD2	1.98	0.47
2:J:350:PRO:HB3	2:J:372:ALA:HB1	1.97	0.47
1:D:777:GLY:CA	2:H:52:VAL:HG11	2.37	0.47
1:E:940:GLU:O	1:E:969:PRO:HA	2.15	0.47
2:G:108:CYS:SG	2:G:118:VAL:CG2	3.03	0.47
1:E:1447:TRP:O	1:E:1451:VAL:HG23	2.14	0.47
1:E:631:LEU:N	1:E:631:LEU:HD23	2.29	0.47
1:B:550:LEU:HB3	1:B:554:GLU:HG3	1.96	0.47
2:G:432:THR:CG2	2:G:433:ASN:N	2.78	0.47
2:I:297:GLY:HA2	2:I:320:TYR:HE1	1.80	0.47
2:K:153:ILE:HG12	2:K:220:VAL:HG11	1.96	0.47
2:K:229:LEU:HD22	2:K:236:VAL:CG1	2.45	0.47
2:K:432:THR:CG2	2:K:433:ASN:N	2.78	0.47
2:I:90:PHE:CZ	2:I:160:LEU:HB2	2.50	0.47
2:I:166:LEU:O	2:I:169:LYS:HB2	2.15	0.47
2:I:153:ILE:HG12	2:I:220:VAL:HG11	1.96	0.47
2:J:207:LEU:O	2:J:212:VAL:HG12	2.15	0.47
2:J:460:ALA:O	2:J:464:ILE:HD12	2.14	0.47
2:I:292:VAL:HG22	2:I:394:LEU:CD1	2.30	0.47
2:L:153:ILE:HG12	2:L:220:VAL:HG11	1.97	0.47
2:L:186:LEU:HD23	2:L:195:LEU:CG	2.43	0.47
2:L:449:LEU:CD2	2:L:452:TRP:CG	2.93	0.47
2:L:455:ARG:O	2:L:458:ARG:HB2	2.14	0.47
2:L:181:ARG:HD2	2:L:182:MET:N	2.29	0.47
1:F:30:HIS:CE1	1:F:1237:ASN:O	2.68	0.47
1:B:1219:ALA:HA	1:B:1229:MET:CE	2.45	0.47
1:E:143:GLN:O	1:E:143:GLN:NE2	2.41	0.47
1:B:496:HIS:CD2	1:B:497:HIS:HD2	2.33	0.47
1:B:704:LEU:O	1:B:707:ILE:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:148:LEU:CB	2:H:234:VAL:HG23	2.44	0.47
2:L:405:ASP:OD1	2:L:407:PRO:HG2	2.15	0.47
2:G:358:VAL:CG1	2:G:366:ARG:HB2	2.44	0.47
2:H:418:THR:HG1	2:H:420:TRP:HD1	1.59	0.47
1:D:1077:ARG:O	1:D:1079:ILE:N	2.48	0.47
1:C:559:ARG:NH1	1:C:568:GLU:OE2	2.48	0.47
2:K:197:LYS:HZ3	2:K:275:ASP:HB3	1.80	0.47
1:A:47:HIS:HB3	1:A:206:ILE:HB	1.96	0.47
1:B:824:GLN:HA	1:B:824:GLN:NE2	2.30	0.47
1:A:191:PHE:HE1	1:A:192:TYR:CE1	2.33	0.47
1:A:918:THR:HG22	1:A:920:GLU:N	2.26	0.47
1:C:191:PHE:HE1	1:C:192:TYR:CE1	2.33	0.47
1:A:850:ARG:O	1:A:853:PHE:HB2	2.15	0.47
1:A:657:VAL:HG12	1:A:658:LEU:N	2.30	0.47
2:H:362:VAL:HG12	2:H:362:VAL:O	2.15	0.47
1:E:5:PHE:CE2	1:E:365:GLY:HA3	2.50	0.47
1:B:1357:VAL:CG1	1:B:1359:GLY:O	2.63	0.47
1:E:81:ILE:HD13	1:F:216:PHE:CE1	2.50	0.47
1:A:3:VAL:HG22	1:A:231:ASN:HB2	1.96	0.47
1:A:935:GLY:HA3	1:A:1025:GLY:O	2.15	0.47
1:B:833:SER:OG	1:B:834:THR:N	2.48	0.47
1:E:1070:ASP:C	1:E:1070:ASP:OD1	2.52	0.47
1:B:1226:GLY:O	1:D:900:GLY:HA2	2.15	0.46
1:A:672:GLN:O	1:A:673:GLU:C	2.52	0.46
1:E:780:ARG:NH2	2:L:109:VAL:HG11	2.29	0.46
1:A:899:ASN:O	1:C:1228:LYS:HB2	2.16	0.46
1:B:1424:LEU:O	1:B:1425:LYS:C	2.53	0.46
1:B:787:ARG:HG3	1:B:787:ARG:H	1.23	0.46
1:E:1415:ILE:HG21	1:E:1421:GLU:CB	2.44	0.46
1:F:1047:MET:O	1:F:1048:GLY:C	2.53	0.46
1:B:447:LEU:CD1	1:B:451:GLN:CD	2.83	0.46
2:G:207:LEU:O	2:G:212:VAL:HG12	2.15	0.46
2:G:416:LYS:HB2	2:G:416:LYS:HZ2	1.80	0.46
1:E:52:GLN:O	1:E:56:LYS:HB2	2.16	0.46
2:J:394:LEU:HD22	2:J:395:VAL:N	2.30	0.46
2:I:321:ARG:HH11	2:I:322:ARG:CZ	2.27	0.46
1:D:1401:LEU:O	1:D:1401:LEU:CD1	2.38	0.46
2:K:166:LEU:O	2:K:169:LYS:HB2	2.15	0.46
2:K:164:GLU:HB2	2:K:207:LEU:HD13	1.96	0.46
1:E:1156:ARG:O	1:E:1157:SER:CB	2.62	0.46
2:H:331:GLN:OE1	2:H:332:ARG:HD3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:207:LEU:O	2:I:212:VAL:HG12	2.15	0.46
2:J:166:LEU:HD23	2:J:461:ALA:CB	2.36	0.46
2:J:77:LEU:CA	2:J:127:ILE:CD1	2.93	0.46
2:L:77:LEU:CA	2:L:127:ILE:CD1	2.93	0.46
2:L:207:LEU:O	2:L:212:VAL:HG12	2.15	0.46
2:H:218:PHE:HD2	2:H:223:ASP:OD2	1.98	0.46
2:H:416:LYS:NZ	2:H:433:ASN:HB2	2.29	0.46
2:H:405:ASP:OD1	2:H:407:PRO:HG2	2.15	0.46
1:C:842:GLU:HG2	1:C:1156:ARG:HH11	1.80	0.46
1:D:496:HIS:CD2	1:D:497:HIS:HD2	2.33	0.46
1:B:520:MET:HA	1:B:714:SER:O	2.15	0.46
2:L:358:VAL:CG1	2:L:366:ARG:HB2	2.44	0.46
2:I:358:VAL:CG1	2:I:366:ARG:HB2	2.44	0.46
1:E:353:MET:HG2	1:E:385:LEU:HD23	1.97	0.46
1:E:345:MET:CE	1:E:385:LEU:HB3	2.45	0.46
2:K:358:VAL:CG1	2:K:366:ARG:HB2	2.44	0.46
1:D:912:SER:CB	1:D:968:PRO:O	2.63	0.46
1:E:1369:THR:O	1:E:1369:THR:CG2	2.63	0.46
2:I:316:VAL:CG1	2:I:342:VAL:HG22	2.45	0.46
1:F:842:GLU:HB3	1:F:1156:ARG:CD	2.43	0.46
1:A:603:HIS:N	1:A:640:THR:HG22	2.30	0.46
1:C:565:THR:HG22	1:C:565:THR:O	2.15	0.46
1:B:824:GLN:NE2	1:B:824:GLN:CA	2.78	0.46
1:E:657:VAL:HG12	1:E:658:LEU:N	2.30	0.46
1:E:1236:ARG:C	1:E:1238:THR:N	2.67	0.46
2:K:362:VAL:O	2:K:362:VAL:HG12	2.15	0.46
1:D:209:GLN:HG3	1:D:210:ARG:H	1.80	0.46
1:C:472:GLY:O	1:C:473:LYS:HG3	2.16	0.46
1:C:231:ASN:HB3	1:C:332:ALA:HB3	1.96	0.46
1:E:1149:ILE:HG22	1:E:1149:ILE:O	2.11	0.46
1:C:498:PHE:N	1:C:498:PHE:CD1	2.82	0.46
1:A:1070:ASP:C	1:A:1070:ASP:OD1	2.52	0.46
1:C:489:SER:OG	1:C:490:ASP:N	2.48	0.46
1:B:871:LEU:O	1:B:872:ASN:C	2.53	0.46
1:C:953:ILE:O	1:C:956:LEU:HB2	2.15	0.46
1:F:833:SER:OG	1:F:834:THR:N	2.48	0.46
1:D:85:ALA:O	1:D:86:GLN:C	2.53	0.46
1:D:1229:MET:HB3	1:F:877:ARG:O	2.15	0.46
1:D:1226:GLY:O	1:F:900:GLY:HA2	2.15	0.46
2:H:109:VAL:O	2:H:112:GLN:HG2	2.09	0.46
1:F:550:LEU:HB3	1:F:554:GLU:HG3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1077:ARG:O	1:F:1079:ILE:N	2.48	0.46
1:F:878:ILE:HG21	1:F:1136:VAL:HG13	1.96	0.46
1:D:743:VAL:HG12	1:D:744:SER:N	2.30	0.46
1:B:677:GLU:OE1	1:B:677:GLU:C	2.54	0.46
2:G:218:PHE:HD2	2:G:223:ASP:OD2	1.98	0.46
2:G:89:ASN:HD22	2:G:89:ASN:H	1.64	0.46
1:E:52:GLN:NE2	1:E:71:LEU:CB	2.78	0.46
2:K:460:ALA:O	2:K:464:ILE:HD12	2.14	0.46
2:G:181:ARG:HD2	2:G:182:MET:N	2.29	0.46
2:I:472:ALA:O	2:I:473:GLU:HB3	2.15	0.46
2:J:229:LEU:HD22	2:J:236:VAL:CG1	2.45	0.46
2:J:49:GLN:HE22	2:J:69:LEU:CB	2.28	0.46
2:L:175:VAL:HG11	2:L:214:TYR:CG	2.47	0.46
1:F:520:MET:HA	1:F:714:SER:O	2.15	0.46
2:H:430:LYS:CE	2:H:456:ASP:HB3	2.43	0.46
1:B:30:HIS:CE1	1:B:1237:ASN:O	2.68	0.46
2:I:405:ASP:OD1	2:I:407:PRO:HG2	2.16	0.46
1:C:345:MET:HE2	1:C:385:LEU:CB	2.45	0.46
1:A:353:MET:HG2	1:A:385:LEU:HD23	1.97	0.46
2:H:358:VAL:CG1	2:H:366:ARG:HB2	2.44	0.46
1:C:404:ARG:CB	1:C:405:GLU:OE1	2.51	0.46
1:E:949:VAL:C	1:E:950:THR:O	2.50	0.46
1:A:464:ILE:CD1	1:A:779:TYR:CZ	2.94	0.46
1:D:842:GLU:HB3	1:D:1156:ARG:CD	2.43	0.46
1:A:1117:VAL:HG12	1:A:1118:CYS:N	2.29	0.46
1:D:572:THR:CG2	1:D:615:ARG:HB3	2.42	0.46
1:C:15:ARG:O	1:C:16:SER:C	2.53	0.46
1:A:335:MET:HE3	1:A:342:VAL:HB	1.97	0.46
1:E:603:HIS:N	1:E:640:THR:CG2	2.78	0.46
1:E:316:LEU:HD12	1:E:316:LEU:C	2.36	0.46
1:A:787:ARG:NH1	1:A:821:PRO:HB2	2.24	0.46
1:E:87:GLU:O	1:E:88:ALA:C	2.53	0.46
1:C:1044:PRO:HG2	1:C:1047:MET:HE3	1.97	0.46
1:A:528:ASN:C	1:A:529:LEU:HD23	2.35	0.46
1:A:894:PHE:HD1	1:A:904:ASN:ND2	2.13	0.46
1:A:351:ARG:HH12	1:A:978:GLU:CD	2.19	0.46
1:C:572:THR:HG22	1:C:615:ARG:NE	2.30	0.46
1:F:211:TYR:CD1	1:F:212:SER:N	2.80	0.46
1:A:1236:ARG:C	1:A:1238:THR:N	2.67	0.46
1:D:304:THR:CG2	1:D:518:ARG:HD2	2.46	0.46
1:B:393:VAL:HG12	1:B:394:ASP:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:228:LEU:HD12	1:E:228:LEU:HA	1.29	0.46
1:E:3:VAL:HG22	1:E:231:ASN:HB2	1.96	0.46
1:C:956:LEU:HD23	1:C:956:LEU:HA	1.70	0.46
1:D:1357:VAL:CG1	1:D:1359:GLY:O	2.63	0.46
1:E:683:LEU:HD23	1:E:683:LEU:HA	1.56	0.46
1:A:1201:LEU:N	1:A:1201:LEU:HD12	2.31	0.46
1:F:1357:VAL:CG1	1:F:1359:GLY:O	2.63	0.46
1:E:489:SER:OG	1:E:490:ASP:N	2.48	0.46
1:B:877:ARG:O	1:F:1229:MET:HB3	2.15	0.46
1:C:899:ASN:O	1:E:1228:LYS:HB2	2.16	0.46
2:I:109:VAL:O	2:I:112:GLN:HG2	2.09	0.46
1:B:777:GLY:C	2:G:52:VAL:CG1	2.83	0.46
2:K:350:PRO:CB	2:K:372:ALA:HB1	2.45	0.46
1:A:248:GLU:OE2	1:A:266:VAL:N	2.44	0.46
1:F:457:THR:O	1:F:461:MET:HG2	2.15	0.46
1:F:677:GLU:C	1:F:677:GLU:OE1	2.54	0.46
1:D:447:LEU:C	1:D:447:LEU:CD1	2.84	0.46
2:G:64:ASN:OD1	2:G:66:PRO:HD2	2.15	0.46
2:G:49:GLN:HE22	2:G:69:LEU:CB	2.28	0.46
1:C:746:ILE:HG23	1:C:1182:ASP:N	2.21	0.46
2:I:375:THR:CG2	2:I:376:GLY:N	2.79	0.46
2:K:175:VAL:HG11	2:K:214:TYR:CG	2.47	0.46
2:K:218:PHE:HD2	2:K:223:ASP:OD2	1.98	0.46
2:K:89:ASN:HD22	2:K:89:ASN:H	1.64	0.46
2:H:348:ALA:HB1	2:H:373:ASP:HA	1.96	0.46
2:I:207:LEU:CD1	2:I:212:VAL:CG1	2.94	0.46
2:I:208:ALA:HA	2:I:212:VAL:HG13	1.98	0.46
2:I:432:THR:CG2	2:I:433:ASN:N	2.78	0.46
2:J:166:LEU:O	2:J:169:LYS:HB2	2.15	0.46
2:J:30:GLU:OE2	2:J:32:TYR:HB2	2.16	0.46
2:I:189:GLY:HA2	2:I:265:LEU:HB3	1.98	0.46
2:G:331:GLN:OE1	2:G:332:ARG:HD3	2.15	0.46
2:L:144:ARG:HH11	2:L:169:LYS:CA	2.27	0.46
2:L:218:PHE:HD2	2:L:223:ASP:OD2	1.98	0.46
2:L:90:PHE:O	2:L:93:ILE:HG23	2.16	0.46
2:H:90:PHE:CZ	2:H:160:LEU:HB2	2.50	0.46
2:H:472:ALA:O	2:H:473:GLU:HB3	2.15	0.46
2:H:49:GLN:HE22	2:H:69:LEU:CB	2.28	0.46
2:H:64:ASN:OD1	2:H:66:PRO:HD2	2.15	0.46
1:D:30:HIS:CE1	1:D:1237:ASN:O	2.68	0.46
1:D:30:HIS:CE1	1:D:368:GLU:OE2	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:405:ASP:OD1	2:J:407:PRO:HG2	2.15	0.46
2:G:405:ASP:OD1	2:G:407:PRO:HG2	2.15	0.46
1:B:417:ASP:HA	1:B:420:VAL:CG1	2.46	0.46
1:F:227:MET:CE	1:F:282:GLU:HG2	2.44	0.46
1:F:417:ASP:HA	1:F:420:VAL:CG1	2.46	0.46
1:D:227:MET:CE	1:D:282:GLU:CG	2.93	0.46
1:B:227:MET:CE	1:B:282:GLU:HG2	2.44	0.46
1:C:242:ASN:H	1:C:242:ASN:HD22	1.61	0.46
1:C:136:ASN:N	1:C:136:ASN:OD1	2.47	0.46
1:C:1068:ARG:NE	1:C:1089:GLU:OE1	2.39	0.46
1:A:1075:THR:HG22	1:A:1077:ARG:N	2.30	0.46
1:E:386:GLY:N	1:E:389:GLU:OE2	2.48	0.46
2:G:246:ARG:O	2:G:397:LYS:HE3	2.16	0.46
1:D:1143:ALA:O	1:D:1146:VAL:N	2.47	0.46
1:F:347:ARG:HH11	1:F:347:ARG:HB2	1.79	0.46
1:B:302:ALA:HB2	1:B:347:ARG:HH11	1.76	0.46
1:C:1290:GLY:O	1:C:1291:ASP:CB	2.53	0.46
1:A:572:THR:HG22	1:A:615:ARG:NE	2.30	0.46
1:E:606:LEU:C	1:E:607:THR:CG2	2.83	0.46
2:I:480:ALA:O	2:I:481:GLU:HB3	2.14	0.46
1:E:183:PHE:HE1	1:E:188:LEU:HA	1.79	0.46
1:F:1424:LEU:HD23	1:F:1428:ILE:HG13	1.96	0.46
1:F:286:ARG:HA	1:F:286:ARG:HD3	1.55	0.46
1:D:162:GLU:CB	1:D:164:ILE:HD12	2.44	0.46
1:C:1383:PHE:O	1:C:1384:ALA:HB3	2.15	0.46
1:F:629:THR:O	1:F:632:ILE:HB	2.16	0.46
4:E:2474:FMN:H9	4:E:2474:FMN:H1'2	1.70	0.46
1:A:231:ASN:HB3	1:A:332:ALA:HB3	1.96	0.46
1:C:12:LYS:HA	1:C:13:PRO:HD3	1.72	0.46
1:A:489:SER:OG	1:A:490:ASP:N	2.48	0.46
1:F:1201:LEU:HD22	1:F:1201:LEU:H	1.79	0.46
1:A:12:LYS:HA	1:A:13:PRO:HD3	1.72	0.46
1:A:1214:ARG:O	1:A:1215:ILE:C	2.52	0.46
1:E:1383:PHE:O	1:E:1384:ALA:HB3	2.15	0.46
1:C:871:LEU:O	1:C:872:ASN:C	2.52	0.46
1:A:673:GLU:O	1:A:674:ALA:C	2.53	0.46
2:L:54:PHE:CB	2:L:107:ASN:HB3	2.39	0.46
1:A:896:PRO:CB	1:C:1226:GLY:CA	2.92	0.46
1:C:1231:LEU:O	1:C:1266:ILE:HA	2.16	0.46
1:C:672:GLN:O	1:C:673:GLU:C	2.52	0.46
1:C:81:ILE:HD13	1:D:216:PHE:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:297:GLY:HA2	2:L:320:TYR:HE1	1.80	0.46
2:L:321:ARG:HH11	2:L:322:ARG:CZ	2.27	0.46
2:L:375:THR:CG2	2:L:376:GLY:N	2.79	0.46
1:C:1427:LEU:HA	1:C:1427:LEU:HD23	1.79	0.46
2:J:375:THR:CG2	2:J:376:GLY:N	2.79	0.46
2:H:108:CYS:SG	2:H:118:VAL:CG2	3.03	0.46
1:A:940:GLU:O	1:A:969:PRO:HA	2.15	0.46
1:E:1428:ILE:HG22	1:E:1428:ILE:O	2.14	0.46
1:F:1184:ASN:N	1:F:1185:PRO:HD2	2.30	0.46
1:F:673:GLU:O	1:F:674:ALA:C	2.54	0.46
2:G:208:ALA:HA	2:G:212:VAL:HG13	1.98	0.46
2:G:90:PHE:CE1	2:G:160:LEU:HB2	2.50	0.46
2:K:77:LEU:CA	2:K:127:ILE:CD1	2.93	0.46
2:K:207:LEU:O	2:K:212:VAL:HG12	2.15	0.46
2:K:416:LYS:HZ2	2:K:416:LYS:HB2	1.80	0.46
1:B:1440:ALA:O	1:B:1441:ALA:C	2.53	0.46
2:I:64:ASN:OD1	2:I:66:PRO:HD2	2.15	0.46
2:J:63:ASN:HD21	2:J:83:VAL:HG12	1.79	0.46
2:J:90:PHE:CE1	2:J:160:LEU:HB2	2.50	0.46
1:A:143:GLN:NE2	1:A:143:GLN:CA	2.78	0.46
2:H:207:LEU:O	2:H:212:VAL:HG12	2.15	0.46
2:H:229:LEU:HD22	2:H:236:VAL:CG1	2.45	0.46
2:H:416:LYS:CE	2:H:433:ASN:HB2	2.45	0.46
2:H:91:PRO:HD2	2:H:203:ARG:HH21	1.79	0.46
1:C:1156:ARG:O	1:C:1157:SER:CB	2.62	0.46
1:C:353:MET:HG2	1:C:385:LEU:HD23	1.97	0.46
2:J:358:VAL:CG1	2:J:366:ARG:HB2	2.44	0.46
1:C:47:HIS:HB3	1:C:206:ILE:HB	1.96	0.46
1:B:389:GLU:HA	1:B:403:ASP:OD2	2.15	0.46
1:C:1005:GLY:O	1:C:1009:ILE:HD12	2.16	0.46
1:B:313:HIS:CD2	1:B:313:HIS:H	2.34	0.46
1:D:173:SER:HG	1:D:176:SER:H	1.63	0.46
1:E:1075:THR:HG22	1:E:1077:ARG:N	2.30	0.46
1:C:1075:THR:HG22	1:C:1077:ARG:N	2.30	0.46
1:F:615:ARG:HG2	1:F:615:ARG:NH1	2.30	0.46
1:F:572:THR:HG23	1:F:616:ALA:O	2.15	0.46
2:K:246:ARG:O	2:K:397:LYS:HE3	2.16	0.46
1:B:839:PRO:HG2	1:B:842:GLU:OE1	2.15	0.46
1:A:316:LEU:HD12	1:A:316:LEU:C	2.36	0.46
1:E:1044:PRO:HG2	1:E:1047:MET:HE3	1.98	0.46
1:A:1132:PRO:O	1:A:1133:GLU:C	2.52	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:572:THR:HG21	1:E:615:ARG:NE	2.30	0.46
1:F:1212:ASP:OD2	1:F:1243:GLY:CA	2.63	0.46
1:D:89:CYS:O	1:D:93:VAL:HG23	2.16	0.46
1:B:608:ASP:OD2	1:B:647:ALA:N	2.42	0.46
2:J:480:ALA:O	2:J:481:GLU:HB3	2.14	0.46
1:D:1424:LEU:HD22	1:D:1447:TRP:HH2	1.80	0.46
1:A:1274:GLN:NE2	1:A:1293:ASN:HB3	2.30	0.46
1:F:89:CYS:O	1:F:93:VAL:HG23	2.16	0.46
1:F:1204:ARG:O	1:F:1205:ASN:C	2.51	0.46
1:E:1463:LEU:HA	1:E:1463:LEU:HD23	1.66	0.46
1:D:1201:LEU:HD22	1:D:1201:LEU:H	1.79	0.46
1:F:147:ASP:O	1:F:151:ILE:HG13	2.15	0.46
1:C:1049:LEU:HD21	1:C:1087:ALA:HB2	1.98	0.46
1:B:1061:LEU:O	1:B:1064:ARG:HB2	2.15	0.46
2:J:51:GLY:O	2:J:52:VAL:HG23	2.16	0.46
1:C:672:GLN:CG	1:C:693:MET:CE	2.79	0.46
2:K:108:CYS:SG	2:K:118:VAL:CG2	3.03	0.46
1:E:1231:LEU:O	1:E:1266:ILE:HA	2.16	0.46
1:F:782:ARG:CA	2:I:52:VAL:C	2.84	0.46
2:H:54:PHE:CB	2:H:107:ASN:HB3	2.39	0.46
1:D:777:GLY:C	2:H:52:VAL:CG1	2.83	0.46
1:E:454:PHE:CD1	1:E:454:PHE:N	2.81	0.46
1:C:500:ARG:NH2	1:C:1041:ALA:O	2.48	0.46
2:K:318:CYS:SG	2:K:320:TYR:CZ	3.06	0.46
2:K:324:ARG:HA	2:K:346:TRP:CZ2	2.46	0.46
1:F:254:PRO:O	1:F:257:GLY:N	2.37	0.46
1:E:251:MET:HB2	1:E:533:LEU:CD1	2.44	0.46
1:D:746:ILE:CG2	1:D:1182:ASP:CB	2.86	0.46
1:D:677:GLU:C	1:D:677:GLU:OE1	2.54	0.46
2:H:189:GLY:HA2	2:H:265:LEU:HB3	1.98	0.46
2:I:367:ILE:HD13	2:I:368:HIS:C	2.34	0.46
2:K:90:PHE:CZ	2:K:160:LEU:HB2	2.50	0.46
2:K:93:ILE:HD11	2:K:195:LEU:CD2	2.30	0.46
2:I:81:TYR:HD1	2:I:128:ASN:HA	1.81	0.46
2:J:416:LYS:NZ	2:J:433:ASN:HB2	2.29	0.46
2:G:297:GLY:HA2	2:G:320:TYR:HE1	1.80	0.46
1:F:290:THR:HG22	1:F:292:PRO:N	2.31	0.46
2:L:208:ALA:HA	2:L:212:VAL:HG13	1.98	0.46
2:L:472:ALA:O	2:L:473:GLU:HB3	2.15	0.46
2:L:89:ASN:H	2:L:89:ASN:HD22	1.64	0.46
2:L:90:PHE:CE1	2:L:160:LEU:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:189:GLY:HA2	2:L:265:LEU:HB3	1.98	0.46
2:H:166:LEU:O	2:H:169:LYS:HB2	2.15	0.46
2:H:81:TYR:HD1	2:H:128:ASN:HA	1.81	0.46
2:H:63:ASN:HD21	2:H:83:VAL:HG12	1.79	0.46
1:D:839:PRO:HG2	1:D:842:GLU:OE1	2.15	0.46
1:E:828:LEU:HD22	1:E:1172:SER:CB	2.38	0.46
1:A:536:ASP:OD1	1:A:538:THR:N	2.49	0.46
1:F:1143:ALA:O	1:F:1146:VAL:N	2.47	0.46
1:A:313:HIS:CD2	1:A:313:HIS:N	2.83	0.46
1:D:824:GLN:CA	1:D:824:GLN:NE2	2.78	0.46
1:F:824:GLN:O	1:F:827:ASP:CB	2.58	0.46
1:C:78:LEU:HD12	1:C:129:GLU:HG3	1.97	0.46
1:B:105:TYR:N	1:B:105:TYR:CD1	2.81	0.46
1:F:1417:VAL:HG12	1:F:1419:HIS:N	2.26	0.46
1:C:606:LEU:C	1:C:607:THR:CG2	2.83	0.46
1:F:511:ILE:HG22	1:F:512:ASP:H	1.79	0.46
1:F:107:TRP:H	1:F:107:TRP:HD1	1.60	0.46
1:D:393:VAL:HG12	1:D:394:ASP:N	2.29	0.46
1:F:304:THR:CG2	1:F:518:ARG:HD2	2.46	0.46
1:F:24:ALA:C	1:F:26:LYS:H	2.19	0.46
1:F:210:ARG:HA	3:F:2473:OMT:HE2	1.97	0.46
1:D:720:ARG:C	1:D:722:GLY:N	2.69	0.46
1:E:472:GLY:O	1:E:473:LYS:HG3	2.16	0.46
1:C:468:MET:HG2	1:C:699:ALA:HB1	1.97	0.46
1:A:805:ASP:O	1:A:805:ASP:OD1	2.33	0.46
1:F:150:ILE:HG21	1:F:259:HIS:CG	2.50	0.46
1:A:944:LEU:HA	1:A:944:LEU:HD12	1.72	0.46
1:F:1061:LEU:O	1:F:1064:ARG:HB2	2.16	0.46
1:A:417:ASP:O	1:A:418:LYS:C	2.52	0.46
1:A:833:SER:HB3	1:A:1153:LEU:HD22	1.98	0.46
1:E:935:GLY:HA3	1:E:1025:GLY:O	2.15	0.46
1:E:672:GLN:O	1:E:673:GLU:C	2.52	0.46
1:B:743:VAL:HG12	1:B:744:SER:N	2.30	0.46
2:L:350:PRO:HG2	2:L:380:PRO:HA	1.98	0.46
1:C:1401:LEU:N	1:C:1402:PRO:CD	2.79	0.46
1:C:1438:ARG:O	1:C:1441:ALA:N	2.49	0.46
1:E:969:PRO:CD	1:E:970:PRO:HD2	2.46	0.46
1:D:263:LEU:CD1	1:D:263:LEU:N	2.73	0.46
1:B:430:VAL:HG13	1:B:554:GLU:CA	2.37	0.46
1:B:447:LEU:CD1	1:B:447:LEU:C	2.84	0.46
1:B:457:THR:O	1:B:461:MET:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:449:LEU:CD2	2:G:451:VAL:HG13	2.27	0.46
2:G:161:ALA:CB	2:G:454:ILE:HG12	2.40	0.46
1:C:52:GLN:NE2	1:C:71:LEU:HB2	2.27	0.46
2:J:394:LEU:CD2	2:J:395:VAL:N	2.79	0.46
2:I:350:PRO:HG2	2:I:380:PRO:HA	1.98	0.46
2:I:367:ILE:HD13	2:I:367:ILE:C	2.36	0.46
2:I:348:ALA:HB1	2:I:373:ASP:HA	1.97	0.46
2:K:423:LEU:CD2	2:K:423:LEU:H	2.25	0.46
2:K:77:LEU:HD23	2:K:127:ILE:HD12	1.96	0.46
2:I:30:GLU:OE2	2:I:32:TYR:HB2	2.16	0.46
2:I:416:LYS:CE	2:I:433:ASN:HB2	2.45	0.46
2:J:432:THR:CG2	2:J:433:ASN:N	2.78	0.46
2:J:81:TYR:HD1	2:J:128:ASN:HA	1.81	0.46
2:G:375:THR:CG2	2:G:376:GLY:N	2.79	0.46
2:L:64:ASN:OD1	2:L:66:PRO:HD2	2.15	0.46
2:H:88:ASN:OD1	2:H:91:PRO:HA	2.16	0.46
1:D:227:MET:CE	1:D:282:GLU:HG2	2.44	0.46
1:B:1076:GLY:N	1:B:1145:GLU:OE2	2.49	0.46
1:D:878:ILE:HG21	1:D:878:ILE:HD13	1.66	0.46
1:E:136:ASN:N	1:E:136:ASN:OD1	2.47	0.46
1:B:1010:ALA:HB2	1:B:1052:VAL:HG22	1.97	0.46
1:B:963:VAL:CG1	1:B:964:MET:H	2.25	0.46
1:D:313:HIS:CD2	1:D:313:HIS:H	2.34	0.46
1:D:437:GLY:O	1:D:438:GLU:C	2.48	0.46
1:D:125:ARG:HG3	1:D:219:TRP:CZ2	2.51	0.46
1:B:842:GLU:HB3	1:B:1156:ARG:CD	2.43	0.46
1:B:125:ARG:HG3	1:B:219:TRP:CZ2	2.51	0.46
1:F:839:PRO:HG2	1:F:842:GLU:OE1	2.15	0.46
1:A:15:ARG:O	1:A:16:SER:C	2.53	0.46
1:D:1207:VAL:HG13	1:D:1208:PRO:CD	2.46	0.46
1:C:894:PHE:HD1	1:C:904:ASN:ND2	2.13	0.46
1:E:1412:PHE:HD2	1:E:1455:TRP:CZ3	2.33	0.46
1:E:850:ARG:O	1:E:853:PHE:HB2	2.15	0.46
1:E:9:ILE:HG13	1:E:361:GLY:C	2.35	0.46
1:C:1468:VAL:HG12	1:C:1468:VAL:O	2.15	0.46
1:E:1274:GLN:H	1:E:1274:GLN:HG2	1.35	0.46
1:E:1274:GLN:NE2	1:E:1293:ASN:HB3	2.30	0.46
1:C:393:VAL:CG1	1:C:394:ASP:N	2.77	0.46
1:B:304:THR:CG2	1:B:518:ARG:HD2	2.46	0.46
1:E:393:VAL:CG1	1:E:394:ASP:N	2.77	0.46
2:J:362:VAL:HG12	2:J:362:VAL:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:848:ALA:O	1:B:849:ILE:C	2.54	0.46
1:B:487:VAL:HG13	1:B:498:PHE:HE2	1.81	0.46
2:J:228:GLU:O	2:J:231:ARG:HB3	2.16	0.46
1:A:1383:PHE:O	1:A:1384:ALA:HB3	2.15	0.46
1:D:147:ASP:O	1:D:151:ILE:HG13	2.15	0.46
2:K:228:GLU:O	2:K:231:ARG:HB3	2.16	0.46
1:D:196:LEU:HA	1:D:196:LEU:HD23	1.55	0.46
2:G:228:GLU:O	2:G:231:ARG:HB3	2.16	0.46
1:C:1195:ASN:HD21	1:C:1197:ARG:CZ	2.29	0.46
1:D:871:LEU:O	1:D:872:ASN:C	2.53	0.46
1:A:896:PRO:HB3	1:C:1226:GLY:C	2.36	0.46
1:C:782:ARG:HD3	2:K:53:PRO:HD2	1.79	0.46
1:A:1231:LEU:O	1:A:1266:ILE:HA	2.16	0.46
1:B:1131:THR:HG22	1:B:1133:GLU:CA	2.46	0.46
1:B:1424:LEU:CD2	1:B:1428:ILE:HD11	2.46	0.46
2:L:350:PRO:HB3	2:L:372:ALA:HB1	1.97	0.46
2:J:350:PRO:HG2	2:J:380:PRO:HA	1.98	0.46
1:F:1113:CYS:C	1:F:1115:VAL:N	2.69	0.46
1:F:782:ARG:HH22	2:I:51:GLY:HA2	0.97	0.46
2:H:110:ILE:HG13	2:H:117:ALA:CA	2.35	0.46
2:H:110:ILE:HB	2:H:115:HIS:HE1	1.81	0.46
1:A:969:PRO:CD	1:A:970:PRO:HD2	2.46	0.46
1:B:787:ARG:O	1:B:788:HIS:ND1	2.49	0.46
1:E:505:GLN:HE21	1:E:1001:VAL:N	2.01	0.46
1:B:263:LEU:HD12	1:B:263:LEU:HA	1.11	0.46
2:G:144:ARG:HH11	2:G:169:LYS:CA	2.27	0.46
2:G:203:ARG:NH2	2:G:203:ARG:HB3	2.31	0.46
2:K:257:ASN:HD22	2:K:364:ALA:CB	2.29	0.46
1:A:57:ASP:O	1:A:60:LYS:HB2	2.15	0.46
1:A:52:GLN:NE2	1:A:71:LEU:CB	2.78	0.46
2:I:350:PRO:CB	2:I:372:ALA:HB1	2.45	0.46
1:E:842:GLU:HG2	1:E:1156:ARG:HH11	1.80	0.46
1:E:989:GLN:O	1:E:1245:ARG:HD3	2.16	0.46
2:I:145:GLU:HG2	2:I:145:GLU:O	2.12	0.46
2:I:218:PHE:HD2	2:I:223:ASP:OD2	1.98	0.46
2:I:230:ARG:CZ	2:I:434:MET:HE1	2.46	0.46
2:J:218:PHE:HD2	2:J:223:ASP:OD2	1.98	0.46
2:G:257:ASN:HD22	2:G:364:ALA:CB	2.29	0.46
1:D:290:THR:CG2	1:D:291:ALA:N	2.75	0.46
1:D:290:THR:HG22	1:D:292:PRO:N	2.31	0.46
1:B:1229:MET:HB3	1:D:877:ARG:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:143:GLN:CA	1:E:143:GLN:NE2	2.78	0.46
1:B:30:HIS:CE1	1:B:368:GLU:OE2	2.68	0.46
1:B:139:VAL:HG12	1:B:143:GLN:HB2	1.97	0.46
1:B:413:LEU:O	1:B:414:LYS:HD2	2.16	0.46
1:D:416:TRP:O	1:D:419:TRP:HB2	2.16	0.46
1:F:416:TRP:O	1:F:419:TRP:HB2	2.16	0.46
1:F:766:TYR:C	1:F:768:GLU:H	2.18	0.46
1:A:949:VAL:C	1:A:950:THR:O	2.50	0.46
1:A:603:HIS:N	1:A:640:THR:CG2	2.79	0.46
1:C:603:HIS:N	1:C:640:THR:HG22	2.30	0.46
1:F:1128:PHE:CZ	1:F:1130:GLY:CA	2.93	0.46
1:D:824:GLN:NE2	1:D:824:GLN:HA	2.30	0.46
1:F:1207:VAL:HG13	1:F:1208:PRO:CD	2.46	0.46
1:F:59:VAL:HG22	1:F:105:TYR:HD2	1.78	0.46
1:E:191:PHE:HE1	1:E:192:TYR:CE1	2.33	0.46
1:B:1212:ASP:OD2	1:B:1243:GLY:CA	2.63	0.46
2:L:480:ALA:O	2:L:481:GLU:HB3	2.15	0.46
1:F:477:GLY:O	1:F:478:SER:HB3	2.15	0.46
1:F:1420:TYR:C	1:F:1422:SER:N	2.69	0.46
1:F:25:LEU:HD21	1:F:207:TYR:HB2	1.97	0.46
1:C:21:GLY:O	1:C:22:ILE:C	2.49	0.46
1:F:720:ARG:C	1:F:722:GLY:N	2.69	0.46
1:A:472:GLY:O	1:A:473:LYS:HG3	2.16	0.46
1:A:583:ARG:CZ	1:A:587:ARG:HH12	2.27	0.46
1:D:1141:PHE:O	1:D:1142:LEU:C	2.54	0.46
1:D:798:LEU:O	1:D:801:ALA:HB3	2.16	0.46
1:E:1049:LEU:HD21	1:E:1087:ALA:HB2	1.98	0.46
1:C:98:LEU:HD23	1:C:98:LEU:HA	1.82	0.46
1:A:780:ARG:CB	2:J:51:GLY:O	2.64	0.46
2:K:110:ILE:HG13	2:K:117:ALA:CA	2.35	0.46
1:B:1184:ASN:N	1:B:1185:PRO:HD2	2.30	0.46
1:B:777:GLY:CA	2:G:52:VAL:HG13	2.12	0.46
1:E:1393:TYR:C	1:E:1394:VAL:HG23	2.34	0.46
1:E:1397:LEU:HD22	1:E:1453:LYS:HD2	1.98	0.46
1:E:1438:ARG:O	1:E:1441:ALA:N	2.49	0.46
2:K:367:ILE:C	2:K:367:ILE:HD13	2.36	0.46
1:C:260:MET:HA	1:C:263:LEU:HB2	1.98	0.46
2:G:90:PHE:O	2:G:93:ILE:HG23	2.16	0.46
2:K:189:GLY:HA2	2:K:265:LEU:HB3	1.98	0.46
2:K:394:LEU:CD2	2:K:395:VAL:N	2.79	0.46
2:J:257:ASN:HD22	2:J:364:ALA:CB	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:331:GLN:HA	2:I:334:VAL:HG22	1.93	0.46
1:D:1401:LEU:C	1:D:1401:LEU:CD1	2.55	0.46
2:K:203:ARG:NH2	2:K:203:ARG:HB3	2.31	0.46
2:K:208:ALA:HA	2:K:212:VAL:HG13	1.98	0.46
2:K:230:ARG:CZ	2:K:434:MET:HE1	2.46	0.46
1:E:1244:THR:O	1:E:1245:ARG:C	2.51	0.46
2:I:90:PHE:CE1	2:I:160:LEU:HB2	2.50	0.46
2:I:430:LYS:CE	2:I:456:ASP:HB3	2.43	0.46
2:I:88:ASN:OD1	2:I:91:PRO:HA	2.16	0.46
2:J:472:ALA:O	2:J:473:GLU:HB3	2.15	0.46
2:J:64:ASN:OD1	2:J:66:PRO:HD2	2.15	0.46
2:G:350:PRO:CB	2:G:372:ALA:HB1	2.45	0.46
2:G:189:GLY:HA2	2:G:265:LEU:HB3	1.98	0.46
2:L:81:TYR:HD1	2:L:128:ASN:HA	1.81	0.46
2:L:145:GLU:HG2	2:L:145:GLU:O	2.12	0.46
2:L:207:LEU:CD1	2:L:212:VAL:CG1	2.94	0.46
1:F:501:GLN:OE1	1:F:710:LYS:NZ	2.43	0.46
2:H:89:ASN:H	2:H:89:ASN:HD22	1.64	0.46
1:C:350:LEU:HD23	1:C:350:LEU:HA	1.55	0.46
1:D:139:VAL:HG12	1:D:143:GLN:HB2	1.97	0.46
2:J:365:VAL:HG22	2:J:366:ARG:CG	2.40	0.46
1:A:295:LYS:HE2	1:A:299:VAL:HG11	1.98	0.46
1:F:313:HIS:CD2	1:F:313:HIS:H	2.34	0.46
1:B:918:THR:HG23	1:B:1256:MET:SD	2.56	0.46
1:D:766:TYR:C	1:D:768:GLU:H	2.18	0.46
1:E:863:LEU:HB3	1:E:1118:CYS:HB3	1.97	0.46
1:D:359:THR:HG23	1:D:378:GLN:O	2.16	0.46
1:A:565:THR:HG22	1:A:565:THR:O	2.15	0.46
1:D:457:THR:O	1:D:461:MET:HG2	2.15	0.46
1:B:266:VAL:HG12	1:B:266:VAL:O	2.15	0.46
1:B:1207:VAL:HG13	1:B:1208:PRO:CD	2.46	0.46
1:D:621:ILE:HG12	1:D:657:VAL:HG11	1.97	0.46
1:D:643:ASN:HB3	1:D:665:THR:HG22	1.98	0.46
1:E:1276:LEU:HD12	1:E:1276:LEU:C	2.36	0.46
1:A:370:GLY:CA	1:A:1237:ASN:HB3	2.45	0.46
1:D:286:ARG:HA	1:D:286:ARG:HD3	1.55	0.46
1:D:757:LYS:O	1:D:758:VAL:C	2.53	0.46
1:C:1201:LEU:N	1:C:1201:LEU:HD12	2.31	0.46
1:D:1153:LEU:HA	1:D:1153:LEU:HD23	1.42	0.46
1:A:1049:LEU:HD21	1:A:1087:ALA:HB2	1.98	0.46
2:L:228:GLU:O	2:L:231:ARG:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:89:CYS:O	1:B:93:VAL:HG23	2.16	0.46
2:H:228:GLU:O	2:H:231:ARG:HB3	2.16	0.46
1:D:595:ASP:O	1:D:596:ALA:C	2.51	0.46
2:J:54:PHE:CB	2:J:107:ASN:HB3	2.39	0.46
1:A:1228:LYS:HB2	1:E:899:ASN:O	2.16	0.46
1:C:1432:VAL:O	1:C:1433:THR:C	2.53	0.46
1:E:938:PRO:O	1:E:939:GLY:C	2.53	0.46
1:E:266:VAL:HG12	1:E:266:VAL:O	2.16	0.46
1:A:376:GLU:O	1:A:378:GLN:N	2.49	0.46
2:H:257:ASN:HD22	2:H:364:ALA:CB	2.29	0.46
2:H:394:LEU:CD2	2:H:395:VAL:N	2.79	0.46
2:G:165:GLU:HB3	2:G:169:LYS:HZ2	1.79	0.46
2:K:28:PHE:N	2:K:28:PHE:CD1	2.84	0.46
1:C:52:GLN:O	1:C:56:LYS:HB2	2.16	0.46
1:C:57:ASP:O	1:C:60:LYS:HB2	2.15	0.46
2:J:189:GLY:HA2	2:J:265:LEU:HB3	1.98	0.46
2:K:416:LYS:CE	2:K:433:ASN:HB2	2.45	0.46
2:K:472:ALA:O	2:K:473:GLU:HB3	2.15	0.46
2:H:290:LYS:CG	2:H:291:HIS:N	2.79	0.46
2:G:179:TYR:HB3	2:G:181:ARG:HH12	1.81	0.46
2:J:449:LEU:CG	2:J:451:VAL:HG12	2.46	0.46
2:J:80:ALA:HB3	2:J:127:ILE:HD11	1.96	0.46
2:H:371:VAL:CG2	2:H:386:SER:CB	2.94	0.46
2:J:371:VAL:CG2	2:J:386:SER:CB	2.94	0.46
2:G:367:ILE:HD13	2:G:367:ILE:C	2.36	0.46
1:F:284:MET:HE2	1:F:294:VAL:HG13	1.98	0.46
2:L:30:GLU:OE2	2:L:32:TYR:HB2	2.16	0.46
2:L:394:LEU:CD2	2:L:395:VAL:N	2.79	0.46
1:F:496:HIS:CD2	1:F:497:HIS:HD2	2.33	0.46
2:H:207:LEU:CD1	2:H:212:VAL:CG1	2.94	0.46
2:H:208:ALA:HA	2:H:212:VAL:HG13	1.98	0.46
2:H:460:ALA:O	2:H:464:ILE:HD12	2.14	0.46
1:D:1076:GLY:N	1:D:1145:GLU:OE2	2.49	0.46
2:L:365:VAL:HG22	2:L:366:ARG:CG	2.40	0.46
1:D:525:ARG:HG3	1:D:544:GLN:HG3	1.97	0.46
1:D:100:PHE:O	1:D:137:LYS:CE	2.46	0.46
1:A:562:MET:CE	1:A:566:ALA:HB2	2.46	0.46
1:C:863:LEU:HB3	1:C:1118:CYS:HB3	1.97	0.46
1:E:1117:VAL:HG12	1:E:1118:CYS:N	2.29	0.46
2:I:246:ARG:O	2:I:397:LYS:HE3	2.16	0.46
1:F:838:VAL:HG13	1:F:839:PRO:CD	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:272:SER:O	2:G:273:LEU:HD13	2.16	0.46
1:E:536:ASP:OD1	1:E:538:THR:N	2.49	0.46
1:C:1132:PRO:O	1:C:1133:GLU:C	2.52	0.46
2:I:276:THR:HG22	2:I:277:VAL:N	2.31	0.46
2:H:276:THR:HG22	2:H:277:VAL:N	2.31	0.46
1:D:1347:ALA:O	1:D:1348:VAL:C	2.54	0.46
1:A:9:ILE:HG13	1:A:361:GLY:C	2.35	0.46
1:E:1057:THR:HG22	1:E:1058:LEU:N	2.28	0.46
1:B:25:LEU:HD21	1:B:207:TYR:HB2	1.97	0.46
1:F:228:LEU:HD22	1:F:278:ASP:HA	1.98	0.46
1:A:1195:ASN:HD21	1:A:1197:ARG:CZ	2.29	0.46
1:B:1141:PHE:O	1:B:1142:LEU:C	2.54	0.46
1:E:491:LYS:HZ1	1:E:785:GLY:HA3	1.81	0.46
1:C:452:GLN:NE2	1:C:764:THR:HG23	1.99	0.46
1:D:1219:ALA:HA	1:D:1229:MET:CE	2.45	0.46
2:L:317:LYS:CE	2:L:345:ILE:CD1	2.94	0.46
1:E:509:PRO:HA	1:E:510:PRO:HD3	1.81	0.46
1:E:260:MET:HA	1:E:263:LEU:HB2	1.98	0.46
2:K:331:GLN:OE1	2:K:332:ARG:HD3	2.15	0.46
2:K:375:THR:CG2	2:K:376:GLY:N	2.79	0.46
2:K:317:LYS:NZ	2:K:390:VAL:HG11	2.31	0.46
1:D:728:ILE:CD1	1:D:1047:MET:CE	2.74	0.46
1:E:555:PHE:HD1	1:E:556:ARG:N	2.14	0.46
1:F:447:LEU:CD1	1:F:447:LEU:C	2.84	0.46
2:H:28:PHE:CD1	2:H:28:PHE:N	2.84	0.46
2:J:181:ARG:CD	2:J:187:VAL:CG1	2.94	0.46
2:K:63:ASN:HD21	2:K:83:VAL:HG12	1.79	0.46
2:K:91:PRO:HD2	2:K:203:ARG:HH21	1.78	0.46
2:K:91:PRO:HD2	2:K:203:ARG:HH22	1.76	0.46
2:I:449:LEU:CG	2:I:451:VAL:HG12	2.46	0.46
2:I:449:LEU:CD2	2:I:451:VAL:CG1	2.89	0.46
2:I:93:ILE:HD11	2:I:195:LEU:CD2	2.30	0.46
2:J:208:ALA:HA	2:J:212:VAL:HG13	1.98	0.46
2:J:416:LYS:HZ2	2:J:433:ASN:HB2	1.79	0.46
2:G:290:LYS:CG	2:G:291:HIS:N	2.79	0.46
2:G:28:PHE:CD1	2:G:28:PHE:N	2.84	0.46
2:G:394:LEU:CD2	2:G:395:VAL:N	2.79	0.46
2:L:81:TYR:CD1	2:L:131:ALA:CB	2.99	0.46
2:L:90:PHE:CE1	2:L:160:LEU:CB	2.99	0.46
2:L:394:LEU:CD2	2:L:396:ILE:CD1	2.94	0.46
2:H:203:ARG:NH2	2:H:203:ARG:HB3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:71:LEU:HD21	2:H:76:ARG:CA	2.46	0.46
2:I:181:ARG:CD	2:I:187:VAL:CG1	2.94	0.46
2:K:405:ASP:OD1	2:K:407:PRO:HG2	2.16	0.46
1:A:213:THR:O	1:A:214:ASN:ND2	2.43	0.46
1:C:214:ASN:O	1:C:1015:LYS:CE	2.53	0.46
1:B:700:ILE:O	1:B:703:GLY:N	2.49	0.46
1:D:700:ILE:O	1:D:703:GLY:N	2.49	0.46
1:A:863:LEU:HB3	1:A:1118:CYS:HB3	1.97	0.46
2:L:246:ARG:O	2:L:397:LYS:HE3	2.16	0.46
2:J:246:ARG:O	2:J:397:LYS:HE3	2.16	0.46
4:B:2474:FMN:H1'2	4:B:2474:FMN:H9	1.57	0.46
1:A:281:PHE:CZ	1:A:335:MET:HG2	2.50	0.46
1:F:375:ASP:OD2	1:F:377:THR:CB	2.61	0.46
1:F:558:MET:C	1:F:560:ASP:N	2.69	0.46
1:C:357:ILE:HD11	1:C:400:LEU:HD21	1.98	0.46
1:E:357:ILE:HD11	1:E:400:LEU:HD21	1.98	0.46
1:A:298:LEU:HD23	1:A:324:MET:CG	2.44	0.46
1:C:850:ARG:O	1:C:853:PHE:HB2	2.16	0.46
1:F:1424:LEU:CD2	1:F:1428:ILE:HD11	2.46	0.46
1:C:661:VAL:O	1:C:661:VAL:CG1	2.61	0.46
1:C:1274:GLN:NE2	1:C:1293:ASN:HB3	2.30	0.46
1:B:102:TYR:HA	1:B:136:ASN:OD1	2.16	0.46
1:D:102:TYR:HA	1:D:136:ASN:OD1	2.16	0.46
1:D:24:ALA:C	1:D:26:LYS:H	2.19	0.46
1:F:571:ALA:HB2	1:F:606:LEU:HD22	1.98	0.46
1:F:1435:THR:HG23	1:F:1437:SER:HB2	1.98	0.46
1:E:953:ILE:O	1:E:956:LEU:HB2	2.15	0.46
1:C:833:SER:OG	1:C:834:THR:N	2.49	0.46
1:D:833:SER:OG	1:D:834:THR:N	2.48	0.46
1:E:1195:ASN:HD21	1:E:1197:ARG:CZ	2.29	0.46
2:I:228:GLU:O	2:I:231:ARG:HB3	2.16	0.46
1:A:1102:CYS:SG	1:A:1104:MET:N	2.89	0.45
1:A:780:ARG:NH2	2:J:54:PHE:CD1	2.80	0.45
2:L:109:VAL:O	2:L:112:GLN:HG2	2.09	0.45
1:C:443:ASP:C	1:C:445:ALA:N	2.70	0.45
1:A:1226:GLY:C	1:E:896:PRO:HB3	2.36	0.45
1:B:1026:ASN:HB3	1:B:1043:LEU:N	2.32	0.45
1:B:1077:ARG:O	1:B:1079:ILE:N	2.48	0.45
1:C:1397:LEU:HD22	1:C:1453:LYS:HD2	1.98	0.45
2:K:350:PRO:HB3	2:K:372:ALA:HB1	1.97	0.45
1:C:554:GLU:OE2	1:C:697:LYS:HE3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:673:GLU:O	1:D:674:ALA:C	2.54	0.45
2:G:90:PHE:CE1	2:G:160:LEU:CB	2.99	0.45
1:E:746:ILE:CG2	1:E:747:SER:N	2.76	0.45
2:K:145:GLU:OE2	2:K:468:ALA:HB1	2.17	0.45
2:K:64:ASN:OD1	2:K:66:PRO:HD2	2.15	0.45
2:K:81:TYR:HD1	2:K:128:ASN:HA	1.81	0.45
2:K:90:PHE:O	2:K:93:ILE:HG23	2.16	0.45
2:H:350:PRO:HG3	2:H:380:PRO:CA	2.47	0.45
2:H:375:THR:CG2	2:H:376:GLY:N	2.79	0.45
2:J:207:LEU:CD1	2:J:212:VAL:CG1	2.94	0.45
2:J:416:LYS:CE	2:J:433:ASN:HB2	2.45	0.45
2:J:449:LEU:CD2	2:J:452:TRP:CG	2.93	0.45
2:I:394:LEU:CD2	2:I:395:VAL:N	2.79	0.45
1:A:989:GLN:O	1:A:1245:ARG:HD3	2.16	0.45
1:F:1438:ARG:CD	2:G:377:ARG:N	2.41	0.45
1:C:1244:THR:O	1:C:1245:ARG:C	2.51	0.45
2:L:203:ARG:NH2	2:L:203:ARG:HB3	2.31	0.45
2:L:230:ARG:CZ	2:L:434:MET:HE1	2.46	0.45
2:H:90:PHE:CE1	2:H:160:LEU:CB	2.99	0.45
1:F:235:ASN:HD22	1:F:235:ASN:C	2.18	0.45
1:A:345:MET:CE	1:A:385:LEU:HB3	2.45	0.45
1:A:242:ASN:H	1:A:242:ASN:HD22	1.61	0.45
1:E:173:SER:HG	1:E:176:SER:H	1.62	0.45
1:F:381:GLU:CD	1:F:402:ARG:NH1	2.67	0.45
2:H:246:ARG:O	2:H:397:LYS:HE3	2.16	0.45
2:H:197:LYS:HZ3	2:H:275:ASP:HB3	1.80	0.45
2:I:141:THR:HB	2:I:142:PRO:CD	2.40	0.45
1:D:266:VAL:HG12	1:D:266:VAL:O	2.15	0.45
1:B:984:ILE:O	1:B:988:LYS:HG3	2.16	0.45
1:C:351:ARG:HH12	1:C:978:GLU:CD	2.19	0.45
1:B:1057:THR:HG22	1:B:1190:VAL:HG11	1.98	0.45
1:B:978:GLU:HG2	1:B:978:GLU:H	1.21	0.45
1:F:102:TYR:HA	1:F:136:ASN:OD1	2.16	0.45
1:E:676:ALA:O	1:E:677:GLU:C	2.50	0.45
1:D:612:GLY:O	1:D:762:HIS:HE1	1.99	0.45
1:D:486:ALA:O	1:D:487:VAL:C	2.51	0.45
2:J:409:ALA:O	2:J:412:GLU:HB2	2.16	0.45
1:E:131:ILE:HG23	1:E:131:ILE:O	2.16	0.45
1:A:953:ILE:O	1:A:956:LEU:HB2	2.15	0.45
1:A:479:MET:HB3	1:A:1106:ARG:NH1	2.31	0.45
1:F:1219:ALA:HA	1:F:1229:MET:CE	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:81:ILE:HD13	1:B:216:PHE:CE1	2.50	0.45
2:L:317:LYS:CE	2:L:345:ILE:HG13	2.47	0.45
2:L:317:LYS:NZ	2:L:390:VAL:HG11	2.31	0.45
2:J:317:LYS:CE	2:J:345:ILE:HG13	2.47	0.45
1:F:1114:PRO:HB2	1:F:1115:VAL:HG23	1.97	0.45
1:E:376:GLU:O	1:E:378:GLN:N	2.49	0.45
1:B:447:LEU:HD11	1:B:451:GLN:CD	2.36	0.45
1:A:1349:ARG:CG	1:A:1349:ARG:NH1	2.75	0.45
2:K:145:GLU:O	2:K:145:GLU:HG2	2.12	0.45
2:H:317:LYS:NZ	2:H:390:VAL:HG11	2.31	0.45
2:H:324:ARG:HA	2:H:346:TRP:CZ2	2.46	0.45
2:H:350:PRO:HB3	2:H:372:ALA:HB1	1.97	0.45
2:J:88:ASN:OD1	2:J:91:PRO:HA	2.16	0.45
2:G:317:LYS:CE	2:G:345:ILE:CD1	2.94	0.45
2:G:350:PRO:HG2	2:G:380:PRO:HA	1.98	0.45
2:L:423:LEU:H	2:L:423:LEU:CD2	2.25	0.45
1:F:235:ASN:HD22	1:F:236:THR:H	1.61	0.45
1:C:345:MET:CE	1:C:385:LEU:HB3	2.45	0.45
1:E:353:MET:HE2	1:E:366:GLY:C	2.33	0.45
1:D:696:TYR:CZ	1:D:700:ILE:HD11	2.52	0.45
1:F:317:ILE:HG22	1:F:321:ASN:ND2	2.27	0.45
1:D:918:THR:HG23	1:D:1256:MET:SD	2.56	0.45
1:C:603:HIS:N	1:C:640:THR:CG2	2.79	0.45
2:H:272:SER:O	2:H:273:LEU:HD13	2.16	0.45
2:K:272:SER:O	2:K:273:LEU:HD13	2.16	0.45
2:H:141:THR:HB	2:H:142:PRO:CD	2.40	0.45
1:C:454:PHE:CD1	1:C:454:PHE:N	2.81	0.45
1:F:824:GLN:NE2	1:F:824:GLN:HA	2.30	0.45
1:F:266:VAL:O	1:F:266:VAL:HG12	2.15	0.45
1:F:1026:ASN:HB3	1:F:1043:LEU:N	2.32	0.45
1:B:831:LEU:HD13	1:B:1084:MET:HE3	1.98	0.45
1:E:179:TYR:HD2	1:E:192:TYR:CD2	2.34	0.45
1:E:1124:LEU:HA	1:E:1124:LEU:HD12	1.29	0.45
1:D:885:GLY:C	1:D:887:GLY:N	2.68	0.45
1:F:885:GLY:C	1:F:887:GLY:N	2.68	0.45
2:I:362:VAL:HG12	2:I:362:VAL:O	2.15	0.45
1:B:304:THR:HG21	1:B:518:ARG:HD2	1.98	0.45
1:E:350:LEU:HA	1:E:350:LEU:HD23	1.56	0.45
2:L:362:VAL:HG12	2:L:362:VAL:O	2.15	0.45
1:A:857:GLY:N	1:A:883:ASP:HB3	2.31	0.45
1:D:1431:HIS:O	1:D:1432:VAL:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:608:ASP:O	1:A:611:MET:N	2.44	0.45
1:C:1149:ILE:O	1:C:1149:ILE:HG22	2.12	0.45
1:B:1435:THR:HG23	1:B:1437:SER:HB2	1.98	0.45
2:H:419:ARG:C	2:H:419:ARG:HD3	2.37	0.45
1:F:186:GLU:H	1:F:186:GLU:HG3	1.05	0.45
1:E:1201:LEU:N	1:E:1201:LEU:HD12	2.31	0.45
1:A:545:LEU:HD23	1:A:545:LEU:HA	1.19	0.45
2:K:419:ARG:C	2:K:419:ARG:HD3	2.37	0.45
1:C:1264:ILE:HG22	1:C:1284:ILE:HA	1.99	0.45
1:B:147:ASP:O	1:B:151:ILE:HG13	2.15	0.45
1:C:1416:GLU:OE1	1:C:1471:HIS:CD2	2.70	0.45
1:E:491:LYS:HZ2	1:E:785:GLY:HA3	1.80	0.45
1:A:1394:VAL:HG11	1:A:1401:LEU:HD23	1.98	0.45
2:L:367:ILE:HD13	2:L:367:ILE:C	2.36	0.45
1:E:500:ARG:NH2	1:E:1041:ALA:O	2.48	0.45
1:A:260:MET:HA	1:A:263:LEU:HB2	1.98	0.45
1:B:782:ARG:CA	2:G:52:VAL:C	2.84	0.45
1:A:266:VAL:O	1:A:266:VAL:HG12	2.16	0.45
1:A:636:LEU:HA	1:A:636:LEU:HD12	1.61	0.45
1:F:1170:GLN:OE1	1:F:1183:LEU:HB2	2.16	0.45
1:E:359:THR:CG2	1:E:378:GLN:CA	2.95	0.45
1:D:443:ASP:O	1:D:444:LYS:C	2.54	0.45
2:G:207:LEU:CD1	2:G:212:VAL:CG1	2.94	0.45
2:G:472:ALA:O	2:G:473:GLU:HB3	2.15	0.45
2:K:415:LEU:HD11	2:K:423:LEU:CB	2.47	0.45
2:K:88:ASN:OD1	2:K:91:PRO:HA	2.16	0.45
2:K:96:ARG:NH2	2:K:199:VAL:HG21	2.31	0.45
2:H:317:LYS:CE	2:H:345:ILE:HG13	2.47	0.45
2:H:350:PRO:HG2	2:H:380:PRO:HA	1.98	0.45
2:I:215:HIS:CD2	2:I:218:PHE:HD1	2.35	0.45
2:I:430:LYS:HD2	2:I:459:ASP:OD1	2.17	0.45
2:I:240:THR:OG1	8:I:484:FAD:N7A	2.50	0.45
2:I:89:ASN:HD22	2:I:89:ASN:H	1.64	0.45
2:I:90:PHE:CE1	2:I:160:LEU:CB	3.00	0.45
2:J:169:LYS:HZ3	2:J:461:ALA:HB1	1.82	0.45
2:J:145:GLU:OE2	2:J:468:ALA:HB1	2.17	0.45
2:J:71:LEU:HD21	2:J:76:ARG:CA	2.46	0.45
2:I:257:ASN:HD22	2:I:364:ALA:CB	2.29	0.45
1:A:1244:THR:O	1:A:1245:ARG:C	2.51	0.45
1:A:778:PHE:HE2	1:A:1039:LYS:HD2	1.66	0.45
2:L:88:ASN:OD1	2:L:91:PRO:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:186:LEU:HD23	2:H:195:LEU:CD1	2.47	0.45
2:H:30:GLU:OE2	2:H:32:TYR:HB2	2.16	0.45
2:H:443:ILE:CD1	2:H:444:VAL:HG23	2.47	0.45
2:H:90:PHE:O	2:H:93:ILE:HG23	2.16	0.45
1:D:501:GLN:OE1	1:D:710:LYS:NZ	2.43	0.45
1:A:974:ILE:O	1:A:974:ILE:HG22	2.16	0.45
1:F:1062:ARG:HH11	1:F:1062:ARG:HD3	1.40	0.45
1:D:1131:THR:HG22	1:D:1133:GLU:CA	2.46	0.45
1:D:1010:ALA:HB2	1:D:1052:VAL:HG22	1.97	0.45
1:F:689:LEU:O	1:F:690:GLU:C	2.55	0.45
1:C:562:MET:CE	1:C:566:ALA:HB2	2.46	0.45
1:C:560:ASP:C	1:C:562:MET:N	2.70	0.45
1:D:572:THR:HG23	1:D:616:ALA:O	2.15	0.45
1:B:426:LEU:HD23	1:B:543:LEU:HB3	1.93	0.45
2:L:272:SER:O	2:L:273:LEU:HD13	2.16	0.45
1:C:536:ASP:OD1	1:C:538:THR:N	2.49	0.45
2:J:272:SER:O	2:J:273:LEU:HD13	2.16	0.45
1:E:459:GLU:O	1:E:463:LEU:CB	2.59	0.45
1:F:824:GLN:CA	1:F:824:GLN:NE2	2.78	0.45
1:A:1044:PRO:HG2	1:A:1047:MET:HE3	1.97	0.45
1:C:787:ARG:NH1	1:C:821:PRO:HB2	2.24	0.45
1:F:984:ILE:O	1:F:988:LYS:HG3	2.16	0.45
1:C:985:TYR:CE1	1:C:1207:VAL:HG11	2.52	0.45
1:C:1236:ARG:C	1:C:1238:THR:H	2.17	0.45
1:B:1468:VAL:HG12	1:B:1469:PRO:O	2.17	0.45
1:D:806:SER:OG	1:D:809:THR:CB	2.64	0.45
1:B:24:ALA:C	1:B:26:LYS:H	2.19	0.45
2:G:362:VAL:O	2:G:362:VAL:HG12	2.15	0.45
1:A:5:PHE:CE2	1:A:365:GLY:HA3	2.50	0.45
1:D:632:ILE:HD12	1:D:632:ILE:HG23	1.66	0.45
1:D:487:VAL:HG13	1:D:498:PHE:HE2	1.81	0.45
1:F:487:VAL:HG13	1:F:498:PHE:HE2	1.81	0.45
1:F:495:LEU:HD12	1:F:495:LEU:HA	1.36	0.45
1:E:197:ASP:OD1	1:E:199:ARG:N	2.38	0.45
1:A:428:GLU:O	1:A:429:LEU:C	2.52	0.45
1:D:790:TRP:CZ2	1:D:1074:LYS:HG2	2.51	0.45
1:B:1070:ASP:C	1:B:1070:ASP:OD1	2.55	0.45
2:G:409:ALA:O	2:G:412:GLU:HB2	2.16	0.45
1:F:1141:PHE:O	1:F:1142:LEU:C	2.54	0.45
1:E:479:MET:HB3	1:E:1106:ARG:NH1	2.31	0.45
1:F:875:MET:CE	1:F:1139:PHE:HE2	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:367:ILE:HD13	2:J:367:ILE:C	2.36	0.45
1:A:253:HIS:ND1	1:A:254:PRO:CG	2.71	0.45
2:G:110:ILE:HB	2:G:115:HIS:HE1	1.81	0.45
2:K:295:LEU:HD21	2:K:319:LEU:CD1	2.46	0.45
1:C:56:LYS:HE2	1:C:67:PRO:O	2.17	0.45
1:A:52:GLN:NE2	1:A:71:LEU:HB2	2.27	0.45
1:A:59:VAL:HG12	1:A:60:LYS:N	2.32	0.45
2:J:28:PHE:CD1	2:J:28:PHE:N	2.84	0.45
2:J:394:LEU:CD2	2:J:396:ILE:CD1	2.94	0.45
2:I:295:LEU:HD21	2:I:319:LEU:CD1	2.46	0.45
2:I:321:ARG:HH11	2:I:322:ARG:NH1	2.14	0.45
2:I:331:GLN:HA	2:I:334:VAL:HG21	1.97	0.45
2:K:207:LEU:CD1	2:K:212:VAL:CG1	2.94	0.45
2:K:215:HIS:CD2	2:K:218:PHE:HD1	2.35	0.45
2:K:449:LEU:CG	2:K:451:VAL:HG12	2.46	0.45
2:K:49:GLN:HE22	2:K:69:LEU:CB	2.28	0.45
2:I:90:PHE:O	2:I:93:ILE:HG23	2.16	0.45
2:J:415:LEU:HD11	2:J:423:LEU:CB	2.47	0.45
2:J:230:ARG:CZ	2:J:434:MET:HE1	2.46	0.45
1:B:290:THR:HG22	1:B:292:PRO:N	2.31	0.45
1:F:1438:ARG:CZ	2:G:376:GLY:C	2.84	0.45
2:G:317:LYS:NZ	2:G:390:VAL:HG11	2.31	0.45
2:L:169:LYS:HZ3	2:L:461:ALA:HB1	1.81	0.45
2:L:186:LEU:HD23	2:L:195:LEU:CD1	2.47	0.45
2:L:230:ARG:CZ	2:L:434:MET:CE	2.95	0.45
2:L:430:LYS:HD2	2:L:459:ASP:OD1	2.17	0.45
2:L:179:TYR:HB3	2:L:181:ARG:HH12	1.81	0.45
2:L:418:THR:CA	2:L:424:LEU:CD2	2.95	0.45
2:I:406:LEU:N	2:I:407:PRO:HD2	2.32	0.45
1:A:842:GLU:HG2	1:A:1156:ARG:HH11	1.80	0.45
1:D:414:LYS:HB3	1:D:415:PRO:CD	2.47	0.45
1:D:417:ASP:HA	1:D:420:VAL:CG1	2.45	0.45
1:E:1005:GLY:O	1:E:1009:ILE:HD12	2.16	0.45
1:F:918:THR:HG23	1:F:1256:MET:SD	2.56	0.45
1:F:1094:THR:O	1:F:1097:LEU:HB2	2.17	0.45
1:C:582:LEU:CB	1:C:755:GLN:HE21	2.30	0.45
1:B:883:ASP:O	1:B:884:SER:C	2.55	0.45
1:B:689:LEU:O	1:B:690:GLU:C	2.55	0.45
1:A:357:ILE:HD11	1:A:400:LEU:HD21	1.98	0.45
1:E:313:HIS:CD2	1:E:313:HIS:N	2.83	0.45
1:A:316:LEU:O	1:A:317:ILE:C	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:582:LEU:O	1:F:585:ALA:HB3	2.17	0.45
1:E:1084:MET:SD	1:E:1168:LEU:CD2	3.05	0.45
1:D:1026:ASN:HB3	1:D:1043:LEU:N	2.32	0.45
1:E:351:ARG:HH12	1:E:978:GLU:CD	2.19	0.45
1:A:985:TYR:CE1	1:A:1207:VAL:HG11	2.52	0.45
1:B:1058:LEU:HD23	1:B:1058:LEU:HA	1.63	0.45
1:D:1057:THR:HG22	1:D:1190:VAL:HG11	1.98	0.45
1:C:657:VAL:HG12	1:C:658:LEU:N	2.30	0.45
1:D:228:LEU:HD22	1:D:278:ASP:HA	1.98	0.45
1:E:203:ASP:OD1	1:E:203:ASP:N	2.45	0.45
1:F:631:LEU:HD22	1:F:631:LEU:HA	1.74	0.45
1:A:1264:ILE:HG22	1:A:1284:ILE:HA	1.99	0.45
1:D:1061:LEU:O	1:D:1064:ARG:HB2	2.15	0.45
1:F:871:LEU:O	1:F:872:ASN:C	2.54	0.45
1:A:131:ILE:HG23	1:A:131:ILE:O	2.16	0.45
1:E:1264:ILE:HG22	1:E:1284:ILE:HA	1.98	0.45
1:F:798:LEU:O	1:F:801:ALA:HB3	2.16	0.45
1:B:1016:ALA:O	1:B:1017:ASN:HB2	2.17	0.45
1:B:790:TRP:CZ2	1:B:1074:LYS:HG2	2.51	0.45
1:E:833:SER:OG	1:E:834:THR:N	2.49	0.45
1:B:428:GLU:O	1:B:429:LEU:C	2.51	0.45
1:F:790:TRP:CZ2	1:F:1074:LYS:HG2	2.51	0.45
1:A:782:ARG:CB	2:J:52:VAL:HA	2.26	0.45
1:E:1102:CYS:SG	1:E:1104:MET:N	2.89	0.45
1:E:673:GLU:O	1:E:674:ALA:C	2.53	0.45
2:L:110:ILE:HB	2:L:115:HIS:HE1	1.81	0.45
1:B:731:SER:HA	1:B:747:SER:HB2	1.99	0.45
2:L:322:ARG:CD	2:L:349:ALA:CB	2.94	0.45
2:I:110:ILE:HB	2:I:115:HIS:HE1	1.81	0.45
1:C:940:GLU:O	1:C:969:PRO:HA	2.15	0.45
1:E:1435:THR:HG23	1:E:1437:SER:CB	2.47	0.45
1:F:743:VAL:HG12	1:F:744:SER:N	2.30	0.45
1:D:831:LEU:HD13	1:D:1084:MET:HE3	1.97	0.45
1:C:376:GLU:O	1:C:378:GLN:N	2.49	0.45
2:G:423:LEU:CD2	2:G:423:LEU:N	2.80	0.45
2:G:423:LEU:CD2	2:G:423:LEU:H	2.25	0.45
1:E:57:ASP:O	1:E:60:LYS:HB2	2.15	0.45
2:I:317:LYS:NZ	2:I:390:VAL:HG11	2.31	0.45
2:K:30:GLU:OE2	2:K:32:TYR:HB2	2.16	0.45
2:K:429:THR:CG2	2:K:431:MET:HE2	2.46	0.45
2:K:443:ILE:CD1	2:K:444:VAL:HG23	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:81:TYR:CD1	2:I:131:ALA:CB	2.99	0.45
2:I:63:ASN:HD21	2:I:83:VAL:HG12	1.79	0.45
2:I:91:PRO:HD2	2:I:203:ARG:HH21	1.78	0.45
2:J:430:LYS:HD2	2:J:459:ASP:OD1	2.17	0.45
2:J:443:ILE:CD1	2:J:444:VAL:HG23	2.47	0.45
2:J:90:PHE:O	2:J:93:ILE:HG23	2.16	0.45
2:L:443:ILE:CD1	2:L:444:VAL:HG23	2.47	0.45
2:L:240:THR:OG1	8:L:484:FAD:N7A	2.50	0.45
2:H:145:GLU:OE2	2:H:468:ALA:HB1	2.17	0.45
2:H:449:LEU:CG	2:H:451:VAL:HG12	2.46	0.45
2:G:418:THR:CA	2:G:424:LEU:CD2	2.95	0.45
1:A:387:PRO:HD2	1:A:1344:GLU:OE2	2.14	0.45
1:D:413:LEU:O	1:D:414:LYS:HD2	2.16	0.45
1:A:353:MET:HE2	1:A:366:GLY:C	2.32	0.45
1:D:227:MET:HE3	1:D:282:GLU:CA	2.28	0.45
1:E:974:ILE:HG22	1:E:974:ILE:O	2.16	0.45
1:E:295:LYS:CD	1:E:295:LYS:C	2.83	0.45
1:C:1045:TRP:O	1:C:1046:GLU:C	2.54	0.45
1:E:559:ARG:NH1	1:E:568:GLU:OE2	2.48	0.45
1:D:883:ASP:O	1:D:884:SER:C	2.55	0.45
1:D:375:ASP:OD2	1:D:377:THR:CB	2.61	0.45
1:F:125:ARG:HG3	1:F:219:TRP:CZ2	2.51	0.45
1:C:357:ILE:HD11	1:C:400:LEU:CD2	2.47	0.45
1:C:179:TYR:HD2	1:C:192:TYR:CD2	2.34	0.45
1:F:621:ILE:HG12	1:F:657:VAL:HG11	1.97	0.45
1:A:1084:MET:SD	1:A:1168:LEU:CD2	3.05	0.45
1:E:979:ASP:O	1:E:980:LEU:C	2.55	0.45
1:D:1212:ASP:OD1	1:D:1243:GLY:N	2.34	0.45
1:F:414:LYS:HB3	1:F:415:PRO:CD	2.47	0.45
1:F:304:THR:HG21	1:F:518:ARG:HD2	1.99	0.45
1:F:355:TYR:HD1	1:F:355:TYR:C	2.20	0.45
1:D:312:ASN:HB2	1:D:411:ALA:CB	2.46	0.45
1:C:1315:LEU:HB3	1:C:1320:ASN:ND2	2.31	0.45
1:D:670:LEU:HA	1:D:670:LEU:HD23	1.48	0.45
1:B:629:THR:O	1:B:632:ILE:HB	2.15	0.45
1:D:1432:VAL:HG12	1:D:1433:THR:N	2.31	0.45
1:E:608:ASP:O	1:E:611:MET:N	2.44	0.45
1:D:1435:THR:HG23	1:D:1437:SER:HB2	1.98	0.45
1:C:833:SER:HB3	1:C:1153:LEU:HD22	1.98	0.45
1:E:449:ARG:HD3	1:E:765:ALA:O	2.17	0.45
1:C:673:GLU:O	1:C:674:ALA:C	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:216:PHE:HA	1:C:217:PRO:HD3	1.73	0.45
1:F:787:ARG:O	1:F:788:HIS:ND1	2.49	0.45
1:D:787:ARG:HG3	1:D:787:ARG:H	1.23	0.45
1:C:704:LEU:C	1:C:706:LYS:H	2.20	0.45
2:K:321:ARG:HH11	2:K:322:ARG:NH1	2.14	0.45
2:K:350:PRO:HG2	2:K:380:PRO:HA	1.98	0.45
1:A:250:ARG:NH2	1:A:639:PHE:CE1	2.79	0.45
1:A:636:LEU:C	1:A:638:THR:N	2.68	0.45
1:E:531:ASN:C	1:E:533:LEU:H	2.18	0.45
2:G:81:TYR:CD1	2:G:131:ALA:CB	2.99	0.45
2:G:186:LEU:HD23	2:G:195:LEU:CD1	2.47	0.45
2:G:230:ARG:CZ	2:G:434:MET:CE	2.95	0.45
2:G:30:GLU:OE2	2:G:32:TYR:HB2	2.16	0.45
1:A:52:GLN:O	1:A:56:LYS:HB2	2.16	0.45
2:J:249:LYS:CD	2:J:258:ILE:HD13	2.47	0.45
2:I:317:LYS:CE	2:I:345:ILE:HG13	2.47	0.45
2:K:230:ARG:CZ	2:K:434:MET:CE	2.95	0.45
2:K:423:LEU:N	2:K:423:LEU:CD2	2.80	0.45
1:B:1438:ARG:CD	2:H:377:ARG:N	2.41	0.45
2:J:447:ALA:HB1	2:J:452:TRP:CD2	2.50	0.45
2:J:161:ALA:CB	2:J:454:ILE:HG12	2.40	0.45
2:J:89:ASN:HD22	2:J:89:ASN:H	1.64	0.45
2:G:367:ILE:HD12	2:G:369:LEU:HD11	1.93	0.45
2:L:257:ASN:HD22	2:L:364:ALA:CB	2.29	0.45
2:H:447:ALA:HB1	2:H:452:TRP:CD2	2.50	0.45
1:B:414:LYS:HB3	1:B:415:PRO:CD	2.47	0.45
1:D:1075:THR:HG22	1:D:1076:GLY:N	2.31	0.45
1:C:295:LYS:HE2	1:C:299:VAL:HG11	1.98	0.45
1:C:295:LYS:HZ1	1:C:299:VAL:HG12	1.76	0.45
1:B:1094:THR:O	1:B:1097:LEU:HB2	2.17	0.45
1:C:316:LEU:HD12	1:C:316:LEU:C	2.36	0.45
1:D:582:LEU:O	1:D:585:ALA:HB3	2.17	0.45
1:A:110:VAL:HG12	1:A:111:PRO:O	2.17	0.45
2:J:276:THR:HG22	2:J:277:VAL:N	2.31	0.45
1:B:643:ASN:HB3	1:B:665:THR:HG22	1.98	0.45
1:D:1424:LEU:CD2	1:D:1428:ILE:HD11	2.46	0.45
1:E:992:PRO:HA	1:E:1204:ARG:NH2	2.32	0.45
1:F:413:LEU:O	1:F:414:LYS:HD2	2.16	0.45
1:B:1420:TYR:C	1:B:1422:SER:N	2.69	0.45
1:A:30:HIS:N	1:A:30:HIS:CD2	2.85	0.45
1:B:1431:HIS:O	1:B:1432:VAL:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1432:VAL:HG12	1:B:1433:THR:N	2.31	0.45
1:D:1201:LEU:HD22	1:D:1201:LEU:N	2.32	0.45
1:E:687:MET:HA	1:E:688:PRO:HD3	1.83	0.45
2:K:409:ALA:O	2:K:412:GLU:HB2	2.16	0.45
2:J:266:THR:HG23	2:J:270:LYS:HZ2	1.81	0.45
1:B:85:ALA:O	1:B:86:GLN:C	2.53	0.45
1:B:798:LEU:O	1:B:801:ALA:HB3	2.16	0.45
1:F:230:HIS:HE1	1:F:234:ILE:HG13	1.82	0.45
1:C:479:MET:HB3	1:C:1106:ARG:NH1	2.31	0.45
2:L:350:PRO:HG2	2:L:374:ALA:HA	1.99	0.45
2:L:350:PRO:HG3	2:L:380:PRO:HA	1.98	0.45
1:C:1415:ILE:HG21	1:C:1421:GLU:CB	2.44	0.45
2:J:321:ARG:HH11	2:J:322:ARG:NH1	2.14	0.45
1:E:1401:LEU:N	1:E:1402:PRO:CD	2.79	0.45
2:K:317:LYS:CE	2:K:345:ILE:HG13	2.47	0.45
1:C:253:HIS:CD2	1:C:254:PRO:HD2	2.40	0.45
1:C:248:GLU:OE2	1:C:266:VAL:N	2.44	0.45
1:F:447:LEU:HD11	1:F:451:GLN:CD	2.36	0.45
2:H:249:LYS:CD	2:H:258:ILE:HD13	2.47	0.45
2:G:81:TYR:HD1	2:G:128:ASN:HA	1.81	0.45
2:G:443:ILE:CD1	2:G:444:VAL:HG23	2.47	0.45
2:G:449:LEU:CG	2:G:451:VAL:HG12	2.46	0.45
2:G:88:ASN:OD1	2:G:91:PRO:HA	2.16	0.45
1:A:103:TYR:HD2	1:A:105:TYR:CE1	2.35	0.45
2:K:81:TYR:CD1	2:K:131:ALA:CB	2.99	0.45
2:K:71:LEU:HD21	2:K:76:ARG:C	2.37	0.45
2:K:71:LEU:HD21	2:K:76:ARG:CA	2.46	0.45
2:K:90:PHE:CE1	2:K:160:LEU:CB	3.00	0.45
2:H:295:LEU:HD21	2:H:319:LEU:CD1	2.46	0.45
2:J:449:LEU:CD2	2:J:451:VAL:CG1	2.89	0.45
2:G:295:LEU:HD21	2:G:319:LEU:CD1	2.46	0.45
2:L:449:LEU:CG	2:L:451:VAL:HG12	2.46	0.45
1:B:1236:ARG:C	1:B:1238:THR:N	2.70	0.45
2:G:406:LEU:N	2:G:407:PRO:HD2	2.32	0.45
2:K:371:VAL:CG2	2:K:386:SER:CB	2.94	0.45
1:D:826:ARG:CG	1:D:826:ARG:NH1	2.67	0.45
1:C:1052:VAL:O	1:C:1053:HIS:C	2.51	0.45
1:F:702:ASP:O	1:F:703:GLY:C	2.55	0.45
1:D:689:LEU:O	1:D:690:GLU:C	2.55	0.45
1:D:559:ARG:NE	1:D:559:ARG:O	2.46	0.45
2:G:269:ASN:HD22	2:G:273:LEU:CD2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:565:THR:HG22	1:E:565:THR:O	2.15	0.45
2:I:269:ASN:HD22	2:I:273:LEU:CD2	2.30	0.45
1:C:1084:MET:SD	1:C:1168:LEU:CD2	3.05	0.45
1:A:572:THR:HG21	1:A:615:ARG:HE	1.82	0.45
1:B:1417:VAL:CG1	1:B:1419:HIS:H	2.28	0.45
1:E:1170:GLN:HG2	1:E:1170:GLN:O	2.16	0.45
1:A:1170:GLN:O	1:A:1170:GLN:HG2	2.16	0.45
1:C:495:LEU:HD12	1:C:495:LEU:HA	1.53	0.45
1:B:757:LYS:O	1:B:758:VAL:C	2.53	0.45
1:D:1068:ARG:NH2	1:D:1089:GLU:OE1	2.46	0.45
1:F:1432:VAL:HG12	1:F:1433:THR:N	2.31	0.45
1:D:629:THR:O	1:D:632:ILE:HB	2.15	0.45
1:D:991:ASN:HA	1:D:992:PRO:HD2	1.83	0.45
1:C:184:LEU:HB3	1:C:186:GLU:HG3	1.99	0.45
1:F:934:GLN:HB2	1:F:934:GLN:HE21	1.58	0.45
1:F:1080:VAL:O	1:F:1081:ILE:C	2.54	0.45
2:H:409:ALA:O	2:H:412:GLU:HB2	2.16	0.45
1:B:12:LYS:HA	1:B:13:PRO:HD3	1.75	0.45
1:A:184:LEU:HB3	1:A:186:GLU:HG3	1.99	0.45
2:H:266:THR:HG23	2:H:270:LYS:HZ2	1.81	0.45
1:E:784:SER:HB3	1:E:785:GLY:H	1.66	0.45
1:E:780:ARG:CB	2:L:51:GLY:O	2.64	0.45
2:L:51:GLY:O	2:L:52:VAL:HG23	2.16	0.45
1:D:1219:ALA:HA	1:D:1229:MET:HE1	1.98	0.45
1:F:1452:THR:O	1:F:1452:THR:CG2	2.64	0.45
1:B:875:MET:HE2	1:B:1139:PHE:CE2	2.48	0.45
1:B:1170:GLN:OE1	1:B:1183:LEU:HB2	2.17	0.45
1:D:1452:THR:O	1:D:1452:THR:CG2	2.64	0.45
1:A:1415:ILE:HG21	1:A:1421:GLU:CB	2.44	0.45
1:A:1438:ARG:O	1:A:1441:ALA:N	2.49	0.45
2:L:321:ARG:HH11	2:L:322:ARG:NH1	2.14	0.45
1:F:777:GLY:CA	2:I:52:VAL:HG11	2.37	0.45
1:D:1114:PRO:HB2	1:D:1115:VAL:HG23	1.97	0.45
1:D:787:ARG:O	1:D:788:HIS:ND1	2.49	0.45
1:E:937:LYS:CE	1:E:1033:SER:HB2	2.41	0.45
1:A:500:ARG:NH2	1:A:1041:ALA:O	2.48	0.45
1:A:244:MET:HB2	1:A:244:MET:HE3	1.50	0.45
1:C:636:LEU:C	1:C:638:THR:N	2.68	0.45
1:D:447:LEU:HD11	1:D:451:GLN:CD	2.36	0.45
2:G:430:LYS:HD2	2:G:459:ASP:OD1	2.17	0.45
2:G:447:ALA:HB1	2:G:452:TRP:CD2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:56:LYS:HE2	1:E:67:PRO:O	2.17	0.45
2:I:102:ARG:HG3	2:I:330:SER:OG	2.17	0.45
2:I:415:LEU:C	2:I:415:LEU:HD22	2.37	0.45
2:J:90:PHE:CE1	2:J:160:LEU:CB	2.99	0.45
2:J:93:ILE:HD11	2:J:195:LEU:CD2	2.30	0.45
2:H:383:ILE:C	2:H:383:ILE:HD13	2.37	0.45
2:J:383:ILE:HD13	2:J:383:ILE:C	2.37	0.45
2:G:317:LYS:CE	2:G:345:ILE:HG13	2.47	0.45
2:G:350:PRO:HG3	2:G:380:PRO:CA	2.47	0.45
2:G:271:VAL:CG1	2:G:281:GLU:CG	2.95	0.45
2:G:394:LEU:CD2	2:G:396:ILE:CD1	2.94	0.45
2:L:430:LYS:CE	2:L:456:ASP:HB3	2.43	0.45
1:D:284:MET:HE2	1:D:294:VAL:HG13	1.99	0.45
2:H:191:PRO:HB2	2:H:193:PHE:CE2	2.52	0.45
2:H:415:LEU:HD22	2:H:415:LEU:C	2.37	0.45
2:H:480:ALA:O	2:H:481:GLU:HB3	2.15	0.45
2:I:179:TYR:HB3	2:I:181:ARG:HH12	1.81	0.45
1:B:1366:GLU:CG	1:B:1367:TYR:CE2	3.00	0.45
2:G:424:LEU:HA	2:G:424:LEU:HD13	1.75	0.45
1:C:353:MET:CE	1:C:366:GLY:C	2.82	0.45
2:J:148:LEU:HB3	2:J:234:VAL:HG23	1.98	0.45
1:C:974:ILE:O	1:C:974:ILE:HG22	2.16	0.45
1:B:416:TRP:O	1:B:419:TRP:HB2	2.16	0.45
1:B:1075:THR:HG22	1:B:1076:GLY:N	2.31	0.45
1:F:696:TYR:CZ	1:F:700:ILE:HD11	2.52	0.45
1:F:701:ASP:C	1:F:703:GLY:N	2.69	0.45
1:F:883:ASP:O	1:F:884:SER:C	2.55	0.45
1:D:1094:THR:O	1:D:1097:LEU:HB2	2.17	0.45
1:B:561:TYR:C	1:B:561:TYR:CD1	2.90	0.45
1:F:359:THR:HG23	1:F:378:GLN:O	2.16	0.45
2:J:269:ASN:HD22	2:J:273:LEU:CD2	2.30	0.45
1:A:1131:THR:HG22	1:A:1133:GLU:H	1.81	0.45
1:B:1329:TYR:HD1	1:B:1348:VAL:HG13	1.82	0.45
2:I:409:ALA:O	2:I:412:GLU:HB2	2.16	0.45
1:C:370:GLY:CA	1:C:1237:ASN:HB3	2.45	0.45
1:C:1170:GLN:O	1:C:1170:GLN:HG2	2.16	0.45
1:E:428:GLU:O	1:E:429:LEU:C	2.52	0.45
1:F:1201:LEU:HD22	1:F:1201:LEU:N	2.32	0.45
1:F:595:ASP:O	1:F:596:ALA:C	2.51	0.45
1:A:1141:PHE:O	1:A:1142:LEU:C	2.55	0.45
1:C:417:ASP:O	1:C:418:LYS:C	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:443:ASP:C	1:A:445:ALA:N	2.70	0.45
1:E:442:MET:HE3	1:E:447:LEU:N	2.32	0.45
1:C:782:ARG:C	1:C:784:SER:N	2.70	0.45
1:C:780:ARG:CB	2:K:51:GLY:O	2.64	0.45
1:C:897:ASP:OD1	1:C:899:ASN:N	2.50	0.45
1:A:1432:VAL:O	1:A:1433:THR:C	2.53	0.45
2:L:297:GLY:O	2:L:327:MET:HE3	2.17	0.45
2:L:351:GLU:CB	2:L:353:PHE:HB3	2.47	0.45
1:C:1394:VAL:HG11	1:C:1401:LEU:HD23	1.98	0.45
1:C:1445:ASN:HB2	2:J:373:ASP:OD2	2.17	0.45
2:J:350:PRO:HG2	2:J:374:ALA:HA	1.99	0.45
2:J:350:PRO:HG3	2:J:380:PRO:HA	1.98	0.45
1:F:787:ARG:H	1:F:787:ARG:HG3	1.23	0.45
1:D:782:ARG:CA	2:H:52:VAL:C	2.84	0.45
1:C:521:SER:C	1:C:522:LEU:HD23	2.38	0.45
1:A:531:ASN:C	1:A:533:LEU:H	2.18	0.45
1:F:878:ILE:HD13	1:F:878:ILE:HG21	1.66	0.45
2:G:145:GLU:OE2	2:G:468:ALA:HB1	2.17	0.45
1:E:1366:GLU:HG2	1:E:1367:TYR:CE2	2.47	0.45
1:D:1400:SER:O	1:D:1401:LEU:C	2.56	0.45
2:K:191:PRO:HB2	2:K:193:PHE:CE2	2.52	0.45
2:H:367:ILE:C	2:H:367:ILE:HD13	2.36	0.45
2:I:77:LEU:CA	2:I:127:ILE:CD1	2.93	0.45
2:I:186:LEU:HD23	2:I:195:LEU:CD1	2.47	0.45
2:I:191:PRO:HB2	2:I:193:PHE:CE2	2.52	0.45
2:I:153:ILE:CG1	2:I:220:VAL:CG1	2.95	0.45
2:I:34:ARG:HG3	2:I:125:LYS:CE	2.46	0.45
2:I:415:LEU:HD11	2:I:423:LEU:CB	2.47	0.45
2:J:203:ARG:HB3	2:J:203:ARG:NH2	2.31	0.45
2:J:71:LEU:HD21	2:J:76:ARG:C	2.37	0.45
2:J:81:TYR:CD1	2:J:131:ALA:CB	2.99	0.45
2:I:249:LYS:CD	2:I:258:ILE:HD13	2.47	0.45
2:G:331:GLN:HA	2:G:334:VAL:HG21	1.98	0.45
2:L:96:ARG:HE	2:L:199:VAL:HG21	1.82	0.45
2:L:423:LEU:N	2:L:423:LEU:CD2	2.80	0.45
2:H:230:ARG:CZ	2:H:434:MET:HE1	2.46	0.45
2:H:426:ASP:O	2:H:430:LYS:HA	2.17	0.45
2:H:71:LEU:HD21	2:H:76:ARG:C	2.37	0.45
2:H:406:LEU:N	2:H:407:PRO:HD2	2.32	0.45
2:L:406:LEU:N	2:L:407:PRO:HD2	2.32	0.45
2:I:365:VAL:HG22	2:I:366:ARG:CG	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:528:ASN:O	1:D:529:LEU:HD23	2.17	0.45
1:E:852:ARG:NH1	1:E:1088:GLU:O	2.50	0.45
1:F:700:ILE:O	1:F:703:GLY:N	2.49	0.45
2:H:305:VAL:HG22	2:H:316:VAL:CG1	2.47	0.45
1:D:558:MET:C	1:D:560:ASP:N	2.69	0.45
1:E:317:ILE:C	1:E:321:ASN:HD22	2.18	0.45
1:C:1084:MET:SD	1:C:1168:LEU:HD21	2.57	0.45
2:L:276:THR:HG22	2:L:277:VAL:N	2.31	0.45
1:B:802:VAL:CG2	1:B:1137:ASN:HB2	2.46	0.45
1:E:360:ASP:N	1:E:360:ASP:OD1	2.49	0.45
1:F:1468:VAL:HG12	1:F:1469:PRO:O	2.17	0.45
1:D:1420:TYR:C	1:D:1422:SER:N	2.69	0.45
1:F:848:ALA:O	1:F:849:ILE:C	2.54	0.45
1:D:571:ALA:HB2	1:D:606:LEU:HD22	1.98	0.45
1:C:608:ASP:O	1:C:611:MET:N	2.44	0.45
1:F:991:ASN:HA	1:F:992:PRO:HD2	1.83	0.45
1:A:833:SER:OG	1:A:834:THR:N	2.49	0.45
1:B:1080:VAL:O	1:B:1081:ILE:C	2.54	0.45
1:F:85:ALA:O	1:F:86:GLN:C	2.53	0.45
2:L:419:ARG:HD3	2:L:419:ARG:C	2.37	0.45
1:C:131:ILE:O	1:C:131:ILE:HG23	2.16	0.45
1:D:1080:VAL:O	1:D:1081:ILE:C	2.54	0.45
2:K:51:GLY:O	2:K:52:VAL:HG23	2.16	0.45
2:K:53:PRO:HD2	2:K:56:GLN:HE21	1.82	0.45
1:A:1395:TYR:HE1	1:A:1397:LEU:HG	1.82	0.45
2:L:295:LEU:HD21	2:L:319:LEU:CD1	2.46	0.45
1:F:777:GLY:C	2:I:52:VAL:CG1	2.83	0.45
1:E:704:LEU:C	1:E:706:LYS:H	2.20	0.45
1:C:938:PRO:O	1:C:939:GLY:C	2.53	0.45
1:C:969:PRO:CD	1:C:970:PRO:HD2	2.46	0.45
1:A:521:SER:C	1:A:522:LEU:HD23	2.38	0.45
1:E:1395:TYR:HE1	1:E:1397:LEU:HG	1.82	0.45
1:C:251:MET:HB2	1:C:533:LEU:CD1	2.43	0.45
1:E:634:SER:O	1:E:635:ASN:HB2	2.16	0.45
1:C:555:PHE:HD1	1:C:556:ARG:N	2.15	0.45
1:B:671:ALA:O	1:B:675:ILE:HD12	2.17	0.45
1:E:1139:PHE:N	1:E:1139:PHE:HD1	2.16	0.45
2:G:230:ARG:CZ	2:G:434:MET:HE1	2.46	0.45
1:C:103:TYR:HD2	1:C:105:TYR:CE1	2.35	0.45
1:E:103:TYR:HD2	1:E:105:TYR:CE1	2.35	0.45
1:F:1400:SER:O	1:F:1401:LEU:C	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:292:VAL:HG22	2:J:394:LEU:CD1	2.30	0.45
1:D:1440:ALA:O	1:D:1441:ALA:C	2.53	0.45
2:K:34:ARG:HG3	2:K:125:LYS:CE	2.46	0.45
2:H:317:LYS:CE	2:H:345:ILE:CD1	2.94	0.45
2:I:443:ILE:CD1	2:I:444:VAL:HG23	2.47	0.45
2:I:71:LEU:HD21	2:I:76:ARG:CA	2.46	0.45
2:J:415:LEU:C	2:J:415:LEU:HD22	2.37	0.45
2:J:430:LYS:CE	2:J:456:ASP:HB3	2.43	0.45
1:F:1376:LEU:HA	1:F:1376:LEU:HD23	1.63	0.45
2:G:350:PRO:HG3	2:G:380:PRO:HA	1.98	0.45
2:L:415:LEU:HD11	2:L:423:LEU:CB	2.47	0.45
2:L:458:ARG:NH2	2:L:458:ARG:HB3	2.32	0.45
2:L:71:LEU:HD21	2:L:76:ARG:CA	2.46	0.45
2:L:383:ILE:C	2:L:383:ILE:HD13	2.37	0.45
1:D:1366:GLU:CG	1:D:1367:TYR:CE2	3.00	0.45
1:F:1076:GLY:N	1:F:1145:GLU:OE2	2.49	0.45
1:A:1005:GLY:O	1:A:1009:ILE:HD12	2.16	0.45
1:C:852:ARG:NH1	1:C:1088:GLU:O	2.50	0.45
1:E:6:ILE:HD13	1:E:20:LYS:HB2	1.99	0.45
1:C:588:ARG:HH11	1:C:588:ARG:HD3	1.59	0.45
1:E:142:GLU:N	1:E:142:GLU:CD	2.58	0.45
1:B:582:LEU:O	1:B:585:ALA:HB3	2.17	0.45
1:A:1289:MET:HE2	1:A:1289:MET:H	1.78	0.45
1:B:1164:ARG:HB3	1:B:1167:LEU:CD1	2.47	0.45
1:C:992:PRO:HA	1:C:1204:ARG:NH2	2.32	0.45
2:L:409:ALA:O	2:L:412:GLU:HB2	2.16	0.45
1:C:369:THR:C	1:C:371:MET:H	2.20	0.45
1:B:1420:TYR:OH	1:B:1466:LEU:CD2	2.65	0.45
1:B:286:ARG:HD3	1:B:286:ARG:HA	1.55	0.45
1:B:571:ALA:HB2	1:B:606:LEU:HD22	1.98	0.45
1:A:660:GLY:HA2	1:A:721:GLY:N	2.32	0.45
1:B:1204:ARG:O	1:B:1205:ASN:C	2.51	0.45
1:E:1159:ASN:O	1:E:1161:VAL:N	2.50	0.45
2:G:419:ARG:C	2:G:419:ARG:HD3	2.37	0.45
1:E:98:LEU:HA	1:E:98:LEU:HD23	1.82	0.45
1:E:184:LEU:HB3	1:E:186:GLU:HG3	1.99	0.45
1:A:780:ARG:HH21	2:J:54:PHE:HD1	1.60	0.44
1:E:452:GLN:NE2	1:E:764:THR:HG23	1.99	0.44
1:A:896:PRO:HG3	1:C:1225:GLU:CB	2.45	0.44
1:B:1452:THR:O	1:B:1452:THR:CG2	2.64	0.44
1:C:900:GLY:HA2	1:E:1263:HIS:CE1	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:102:ARG:HG3	2:J:330:SER:OG	2.17	0.44
1:C:510:PRO:CD	1:C:970:PRO:HB3	2.37	0.44
1:E:1445:ASN:HB2	2:K:373:ASP:OD2	2.17	0.44
2:K:350:PRO:HG3	2:K:380:PRO:CA	2.47	0.44
1:A:291:ALA:CB	1:A:292:PRO:HD3	2.31	0.44
1:A:293:MET:HE3	1:A:293:MET:HB3	1.93	0.44
1:C:292:PRO:O	1:C:293:MET:C	2.55	0.44
1:A:555:PHE:HD1	1:A:556:ARG:N	2.14	0.44
1:E:554:GLU:OE2	1:E:697:LYS:HE3	2.17	0.44
1:B:443:ASP:O	1:B:444:LYS:C	2.54	0.44
1:C:359:THR:CG2	1:C:378:GLN:CA	2.95	0.44
2:H:281:GLU:HG3	2:H:281:GLU:O	2.17	0.44
2:H:394:LEU:CD2	2:H:396:ILE:CD1	2.94	0.44
2:K:249:LYS:CD	2:K:258:ILE:HD13	2.47	0.44
2:K:394:LEU:CD2	2:K:396:ILE:CD1	2.95	0.44
2:K:166:LEU:HD22	2:K:169:LYS:HE2	2.00	0.44
2:K:415:LEU:C	2:K:415:LEU:HD22	2.37	0.44
2:H:350:PRO:HG2	2:H:374:ALA:HA	1.99	0.44
2:I:166:LEU:HD23	2:I:461:ALA:CB	2.36	0.44
2:I:203:ARG:HB3	2:I:203:ARG:NH2	2.31	0.44
2:I:215:HIS:HD2	2:I:218:PHE:HD1	1.65	0.44
2:J:191:PRO:HB2	2:J:193:PHE:CE2	2.52	0.44
2:J:186:LEU:HD23	2:J:195:LEU:CD1	2.47	0.44
2:L:215:HIS:HD2	2:L:218:PHE:HD1	1.65	0.44
2:L:426:ASP:O	2:L:430:LYS:HA	2.17	0.44
1:D:30:HIS:HD2	1:D:31:ARG:H	1.65	0.44
1:E:1458:VAL:HA	1:E:1459:PRO:HD3	1.65	0.44
1:B:513:SER:CB	1:B:520:MET:HE1	2.29	0.44
2:I:418:THR:CA	2:I:424:LEU:CD2	2.95	0.44
1:F:508:ASN:HB2	1:F:509:PRO:CD	2.47	0.44
1:C:353:MET:HE2	1:C:366:GLY:C	2.31	0.44
1:E:961:PRO:C	1:E:963:VAL:H	2.20	0.44
1:E:309:THR:HB	1:E:314:LYS:HE3	1.99	0.44
1:F:100:PHE:O	1:F:137:LYS:CE	2.46	0.44
1:B:957:ARG:HD2	1:B:965:LEU:CD1	2.47	0.44
1:D:957:ARG:NH2	5:D:2475:AKG:O4	2.40	0.44
1:D:561:TYR:C	1:D:561:TYR:CD1	2.90	0.44
1:B:589:ILE:O	1:B:593:THR:OG1	2.28	0.44
1:C:6:ILE:HD13	1:C:20:LYS:HB2	1.99	0.44
1:E:357:ILE:HD11	1:E:400:LEU:CD2	2.47	0.44
1:B:359:THR:HG23	1:B:378:GLN:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:565:THR:HG22	1:A:603:HIS:HD2	1.83	0.44
2:I:272:SER:O	2:I:273:LEU:HD13	2.16	0.44
1:D:1124:LEU:HD12	1:D:1124:LEU:HA	1.30	0.44
1:D:984:ILE:O	1:D:988:LYS:HG3	2.16	0.44
1:E:110:VAL:HG12	1:E:111:PRO:O	2.17	0.44
1:D:1468:VAL:HG12	1:D:1469:PRO:O	2.17	0.44
1:B:806:SER:OG	1:B:809:THR:CB	2.64	0.44
1:C:575:VAL:HG13	1:C:759:LEU:CD2	2.48	0.44
1:B:869:GLY:O	1:B:870:THR:C	2.52	0.44
1:D:1068:ARG:HA	1:D:1089:GLU:O	2.17	0.44
1:B:1068:ARG:HA	1:B:1089:GLU:O	2.17	0.44
1:F:1068:ARG:HA	1:F:1089:GLU:O	2.17	0.44
1:F:1003:ARG:NH1	1:F:1004:SER:O	2.50	0.44
1:E:197:ASP:OD2	1:E:199:ARG:NH2	2.50	0.44
2:I:419:ARG:C	2:I:419:ARG:HD3	2.37	0.44
1:A:819:LYS:HA	1:A:819:LYS:HD3	1.73	0.44
1:B:186:GLU:H	1:B:186:GLU:HG3	1.05	0.44
1:D:1374:VAL:HG12	1:D:1375:ILE:N	2.32	0.44
1:F:12:LYS:HA	1:F:13:PRO:HD3	1.75	0.44
1:A:1159:ASN:O	1:A:1161:VAL:N	2.51	0.44
1:E:443:ASP:C	1:E:445:ALA:N	2.70	0.44
2:L:118:VAL:HG22	2:L:118:VAL:H	1.08	0.44
1:E:780:ARG:NH2	2:L:54:PHE:CD1	2.80	0.44
1:A:897:ASP:OD1	1:A:899:ASN:N	2.50	0.44
2:J:302:MET:CE	2:J:334:VAL:CA	2.95	0.44
2:J:317:LYS:NZ	2:J:390:VAL:HG11	2.31	0.44
2:J:295:LEU:HD21	2:J:319:LEU:CD1	2.46	0.44
2:K:102:ARG:HG3	2:K:330:SER:OG	2.17	0.44
1:A:1001:VAL:O	1:A:1002:SER:C	2.55	0.44
2:G:429:THR:CB	2:G:431:MET:HE2	2.48	0.44
2:G:462:GLU:O	2:G:465:HIS:HB3	2.18	0.44
2:J:271:VAL:CG1	2:J:281:GLU:CG	2.95	0.44
2:J:179:TYR:HB3	2:J:181:ARG:HH12	1.81	0.44
2:K:186:LEU:HD23	2:K:195:LEU:CD1	2.47	0.44
2:I:165:GLU:HB3	2:I:169:LYS:HZ2	1.79	0.44
2:I:31:ILE:HD11	2:I:194:LYS:HG2	2.00	0.44
2:I:96:ARG:HE	2:I:199:VAL:HG21	1.82	0.44
2:I:230:ARG:CZ	2:I:434:MET:CE	2.95	0.44
2:I:458:ARG:HB3	2:I:458:ARG:NH2	2.32	0.44
2:I:28:PHE:CD1	2:I:28:PHE:N	2.84	0.44
1:C:1245:ARG:O	1:C:1246:LEU:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:989:GLN:O	1:C:1245:ARG:HD3	2.16	0.44
2:L:96:ARG:NH2	2:L:199:VAL:HG21	2.31	0.44
2:L:443:ILE:HD12	2:L:444:VAL:HG23	1.99	0.44
2:H:415:LEU:HD11	2:H:423:LEU:CB	2.47	0.44
2:H:430:LYS:HD2	2:H:459:ASP:OD1	2.17	0.44
2:I:383:ILE:C	2:I:383:ILE:HD13	2.37	0.44
1:D:520:MET:HE3	1:D:705:LEU:HB3	1.98	0.44
2:K:383:ILE:C	2:K:383:ILE:HD13	2.37	0.44
1:D:139:VAL:CG1	1:D:140:SER:N	2.35	0.44
2:K:418:THR:CA	2:K:424:LEU:CD2	2.95	0.44
2:K:405:ASP:OD1	2:K:407:PRO:HD2	2.18	0.44
1:E:987:LEU:HD23	1:E:987:LEU:HA	1.70	0.44
2:I:305:VAL:HG22	2:I:316:VAL:CG1	2.47	0.44
2:J:305:VAL:HG22	2:J:316:VAL:CG1	2.47	0.44
1:E:420:VAL:O	1:E:422:ASN:N	2.50	0.44
1:B:985:TYR:O	1:B:988:LYS:N	2.50	0.44
1:C:110:VAL:HG12	1:C:111:PRO:O	2.17	0.44
1:A:1084:MET:SD	1:A:1168:LEU:HD21	2.57	0.44
1:E:985:TYR:CE1	1:E:1207:VAL:HG11	2.52	0.44
1:A:183:PHE:HE1	1:A:188:LEU:HA	1.79	0.44
1:D:289:ARG:NH1	1:D:535:GLU:HB2	2.32	0.44
1:E:1003:ARG:CG	1:E:1003:ARG:HH11	2.29	0.44
1:D:207:TYR:CD1	1:D:207:TYR:N	2.85	0.44
1:B:207:TYR:N	1:B:207:TYR:CD1	2.85	0.44
1:B:228:LEU:HD22	1:B:278:ASP:HA	1.98	0.44
1:D:78:LEU:HB3	1:D:79:PRO:CD	2.48	0.44
1:E:857:GLY:N	1:E:883:ASP:HB3	2.31	0.44
1:C:1360:CYS:O	1:C:1361:GLY:O	2.35	0.44
1:B:1374:VAL:HG12	1:B:1375:ILE:N	2.32	0.44
1:F:345:MET:HG3	1:F:346:ASP:N	2.32	0.44
1:D:1006:ILE:HG23	1:D:1007:GLY:N	2.32	0.44
1:F:1006:ILE:HG23	1:F:1007:GLY:N	2.33	0.44
1:A:672:GLN:CG	1:A:693:MET:CE	2.79	0.44
1:C:449:ARG:HD3	1:C:765:ALA:O	2.17	0.44
1:C:1435:THR:HG23	1:C:1437:SER:CB	2.47	0.44
1:C:307:GLN:HB2	1:C:1403:LEU:HD22	1.99	0.44
2:H:53:PRO:HD2	2:H:56:GLN:HE21	1.82	0.44
2:G:54:PHE:CB	2:G:107:ASN:HB3	2.39	0.44
2:G:53:PRO:CG	2:G:56:GLN:HG2	2.13	0.44
1:E:1440:ALA:O	1:E:1443:ILE:N	2.42	0.44
1:F:1131:THR:HG22	1:F:1133:GLU:CA	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:443:ASP:O	1:F:444:LYS:C	2.54	0.44
1:F:671:ALA:O	1:F:675:ILE:HD12	2.17	0.44
1:B:466:HIS:CE1	1:B:684:PHE:HE1	2.33	0.44
1:B:673:GLU:O	1:B:674:ALA:C	2.54	0.44
2:G:144:ARG:CG	2:G:145:GLU:N	2.81	0.44
2:G:146:LEU:CD2	2:G:146:LEU:N	2.81	0.44
2:G:175:VAL:HG13	2:G:175:VAL:O	2.18	0.44
2:G:153:ILE:CG1	2:G:220:VAL:CG1	2.95	0.44
2:G:415:LEU:HD11	2:G:423:LEU:CB	2.47	0.44
2:G:443:ILE:HD12	2:G:444:VAL:HG23	1.99	0.44
2:G:71:LEU:HD21	2:G:76:ARG:C	2.37	0.44
2:G:93:ILE:HD11	2:G:195:LEU:CD2	2.30	0.44
1:B:1400:SER:O	1:B:1401:LEU:C	2.56	0.44
2:K:426:ASP:O	2:K:430:LYS:HA	2.17	0.44
2:J:175:VAL:HG13	2:J:175:VAL:O	2.18	0.44
2:J:31:ILE:HD11	2:J:194:LYS:HG2	2.00	0.44
2:J:230:ARG:CZ	2:J:434:MET:CE	2.95	0.44
2:J:454:ILE:CD1	2:J:458:ARG:HG2	2.48	0.44
2:G:322:ARG:CD	2:G:349:ALA:CB	2.94	0.44
2:G:321:ARG:HH11	2:G:322:ARG:NH1	2.14	0.44
2:L:145:GLU:OE2	2:L:468:ALA:HB1	2.17	0.44
2:L:271:VAL:CG1	2:L:281:GLU:CG	2.95	0.44
1:F:705:LEU:HA	1:F:705:LEU:HD23	1.18	0.44
2:H:146:LEU:CD2	2:H:146:LEU:N	2.81	0.44
2:H:175:VAL:O	2:H:175:VAL:HG13	2.18	0.44
2:H:215:HIS:CD2	2:H:218:PHE:HD1	2.35	0.44
2:H:458:ARG:HB3	2:H:458:ARG:NH2	2.32	0.44
2:H:81:TYR:CD1	2:H:131:ALA:CB	2.99	0.44
2:J:406:LEU:N	2:J:407:PRO:HD2	2.32	0.44
1:A:1156:ARG:O	1:A:1157:SER:CB	2.62	0.44
1:C:353:MET:HA	1:C:366:GLY:O	2.18	0.44
1:B:1210:THR:CG2	1:B:1211:LEU:H	2.07	0.44
1:A:357:ILE:HD11	1:A:400:LEU:CD2	2.47	0.44
2:H:197:LYS:CD	2:H:275:ASP:H	2.30	0.44
2:J:197:LYS:CD	2:J:275:ASP:H	2.30	0.44
2:J:141:THR:HB	2:J:142:PRO:CD	2.40	0.44
1:B:175:ARG:NH1	1:B:175:ARG:CG	2.79	0.44
1:E:1132:PRO:O	1:E:1133:GLU:C	2.52	0.44
1:F:643:ASN:HB3	1:F:665:THR:HG22	1.98	0.44
1:B:303:LEU:HG	1:B:303:LEU:O	2.17	0.44
1:F:1424:LEU:O	1:F:1425:LYS:C	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1190:VAL:C	1:D:1192:PRO:HD3	2.38	0.44
1:F:303:LEU:HG	1:F:303:LEU:O	2.17	0.44
1:F:289:ARG:NH1	1:F:535:GLU:HB2	2.33	0.44
1:A:393:VAL:CG1	1:A:394:ASP:N	2.77	0.44
1:F:806:SER:OG	1:F:809:THR:CB	2.64	0.44
1:F:670:LEU:HA	1:F:670:LEU:HD23	1.48	0.44
1:C:1315:LEU:HD23	1:C:1315:LEU:HA	1.62	0.44
1:C:857:GLY:N	1:C:883:ASP:HB3	2.31	0.44
1:F:209:GLN:HG3	1:F:210:ARG:H	1.80	0.44
1:C:197:ASP:OD2	1:C:199:ARG:NH2	2.50	0.44
1:D:1003:ARG:NH1	1:D:1004:SER:O	2.50	0.44
1:A:197:ASP:OD2	1:A:199:ARG:NH2	2.50	0.44
1:E:833:SER:HB3	1:E:1153:LEU:HD22	1.97	0.44
1:A:1416:GLU:OE1	1:A:1471:HIS:CD2	2.70	0.44
1:E:1416:GLU:OE1	1:E:1471:HIS:CD2	2.70	0.44
1:B:1006:ILE:HG23	1:B:1007:GLY:N	2.33	0.44
1:F:928:LEU:HD23	1:F:928:LEU:HA	1.65	0.44
1:D:1016:ALA:O	1:D:1017:ASN:HB2	2.17	0.44
1:C:1161:VAL:HG13	1:C:1161:VAL:O	2.18	0.44
1:A:449:ARG:HD3	1:A:765:ALA:O	2.17	0.44
1:C:81:ILE:HD13	1:D:216:PHE:CZ	2.53	0.44
1:A:1401:LEU:N	1:A:1402:PRO:CD	2.79	0.44
2:L:290:LYS:HD3	2:L:393:ASP:CG	2.38	0.44
2:J:350:PRO:HG3	2:J:380:PRO:CA	2.47	0.44
1:F:500:ARG:NH2	1:F:1039:LYS:O	2.50	0.44
1:A:1139:PHE:N	1:A:1139:PHE:CD1	2.86	0.44
2:G:96:ARG:HE	2:G:199:VAL:HG21	1.82	0.44
2:G:215:HIS:HD2	2:G:218:PHE:HD1	1.65	0.44
2:G:426:ASP:O	2:G:430:LYS:HA	2.17	0.44
2:G:458:ARG:HB3	2:G:458:ARG:NH2	2.33	0.44
2:K:271:VAL:CG1	2:K:281:GLU:CG	2.95	0.44
2:I:350:PRO:HG3	2:I:380:PRO:HA	1.98	0.44
1:D:1400:SER:C	1:D:1402:PRO:HD2	2.38	0.44
2:H:321:ARG:HH11	2:H:322:ARG:NH1	2.14	0.44
2:I:144:ARG:CG	2:I:145:GLU:N	2.81	0.44
2:I:423:LEU:CD2	2:I:423:LEU:N	2.80	0.44
2:J:144:ARG:CG	2:J:145:GLU:N	2.81	0.44
2:J:458:ARG:HB3	2:J:458:ARG:NH2	2.33	0.44
2:I:394:LEU:CD2	2:I:396:ILE:CD1	2.95	0.44
2:G:148:LEU:HB3	2:G:234:VAL:HG23	1.98	0.44
2:L:449:LEU:CD2	2:L:451:VAL:CG1	2.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:230:ARG:CZ	2:H:434:MET:CE	2.95	0.44
2:H:454:ILE:CD1	2:H:458:ARG:HG2	2.48	0.44
2:J:405:ASP:OD1	2:J:407:PRO:HD2	2.18	0.44
1:C:961:PRO:C	1:C:963:VAL:H	2.20	0.44
1:C:960:THR:CG2	1:C:963:VAL:HG23	2.21	0.44
1:C:309:THR:HG22	1:C:310:PRO:O	2.17	0.44
1:B:957:ARG:NH2	5:B:2475:AKG:O4	2.40	0.44
1:B:964:MET:O	1:B:965:LEU:HD23	2.18	0.44
1:A:560:ASP:C	1:A:562:MET:N	2.70	0.44
1:A:559:ARG:HD2	1:A:605:ILE:CD1	2.48	0.44
1:F:561:TYR:CD1	1:F:561:TYR:C	2.90	0.44
2:I:197:LYS:CD	2:I:275:ASP:H	2.30	0.44
1:A:459:GLU:O	1:A:463:LEU:CB	2.59	0.44
1:B:1143:ALA:O	1:B:1146:VAL:N	2.47	0.44
1:A:648:GLU:HG2	1:A:654:TYR:CE1	2.53	0.44
1:C:648:GLU:HG2	1:C:654:TYR:CE1	2.53	0.44
1:F:985:TYR:O	1:F:988:LYS:N	2.50	0.44
1:E:24:ALA:O	1:E:27:ALA:N	2.27	0.44
1:B:1190:VAL:C	1:B:1192:PRO:HD3	2.38	0.44
1:A:992:PRO:HA	1:A:1204:ARG:NH2	2.32	0.44
1:D:1447:TRP:O	1:D:1450:GLU:N	2.51	0.44
1:B:1346:PHE:O	1:B:1347:ALA:HB3	2.17	0.44
1:D:1420:TYR:OH	1:D:1466:LEU:CD2	2.65	0.44
1:D:304:THR:HG21	1:D:518:ARG:HD2	1.99	0.44
1:B:355:TYR:HD1	1:B:355:TYR:C	2.20	0.44
1:A:964:MET:O	1:A:965:LEU:HD23	2.18	0.44
1:E:498:PHE:HD1	1:E:498:PHE:H	1.64	0.44
1:B:1201:LEU:HD22	1:B:1201:LEU:N	2.32	0.44
1:C:485:ILE:HG21	1:C:485:ILE:HD13	1.72	0.44
1:D:165:ASN:O	1:D:166:ASP:HB2	2.18	0.44
1:F:751:LEU:HD23	1:F:751:LEU:HA	1.49	0.44
1:B:196:LEU:HA	1:B:196:LEU:HD23	1.55	0.44
1:F:165:ASN:O	1:F:166:ASP:CB	2.65	0.44
1:F:165:ASN:O	1:F:166:ASP:HB2	2.18	0.44
1:D:875:MET:HE3	1:D:880:ALA:HB3	1.99	0.44
1:B:877:ARG:CD	1:F:1230:GLN:HB2	2.48	0.44
2:L:317:LYS:CE	2:L:345:ILE:CG1	2.95	0.44
2:L:350:PRO:HG3	2:L:380:PRO:CA	2.47	0.44
1:C:1393:TYR:C	1:C:1394:VAL:HG23	2.35	0.44
2:J:290:LYS:CG	2:J:291:HIS:N	2.79	0.44
2:I:53:PRO:HD2	2:I:56:GLN:HE21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:53:PRO:HD2	2:G:56:GLN:HE21	1.83	0.44
1:A:634:SER:O	1:A:635:ASN:HB2	2.16	0.44
1:A:636:LEU:O	1:A:638:THR:N	2.51	0.44
1:F:452:GLN:NE2	1:F:764:THR:HG23	2.29	0.44
2:G:415:LEU:C	2:G:415:LEU:HD22	2.37	0.44
2:G:59:CYS:SG	2:G:61:VAL:CG1	3.05	0.44
2:K:163:ALA:HB3	2:K:207:LEU:HD21	2.00	0.44
2:K:430:LYS:HD2	2:K:459:ASP:OD1	2.17	0.44
2:H:102:ARG:HG3	2:H:330:SER:OG	2.17	0.44
2:I:166:LEU:HD22	2:I:169:LYS:HE2	2.00	0.44
2:J:163:ALA:HB3	2:J:207:LEU:HD21	2.00	0.44
2:J:215:HIS:CD2	2:J:218:PHE:HD1	2.35	0.44
2:J:59:CYS:SG	2:J:61:VAL:CG1	3.05	0.44
2:G:249:LYS:CD	2:G:258:ILE:HD13	2.47	0.44
2:L:60:PRO:O	2:L:455:ARG:HD3	2.18	0.44
2:H:144:ARG:CG	2:H:145:GLU:N	2.81	0.44
2:H:166:LEU:HD22	2:H:169:LYS:HE2	2.00	0.44
2:H:163:ALA:HB3	2:H:207:LEU:HD21	2.00	0.44
2:H:59:CYS:SG	2:H:61:VAL:CG1	3.05	0.44
1:D:1236:ARG:C	1:D:1238:THR:N	2.70	0.44
2:H:405:ASP:OD1	2:H:407:PRO:HD2	2.18	0.44
2:K:148:LEU:HB3	2:K:234:VAL:HG23	1.98	0.44
1:C:839:PRO:HG2	1:C:842:GLU:HB2	2.00	0.44
2:I:405:ASP:OD1	2:I:407:PRO:HD2	2.18	0.44
2:K:406:LEU:N	2:K:407:PRO:HD2	2.32	0.44
1:D:508:ASN:HB2	1:D:509:PRO:CD	2.47	0.44
1:C:114:VAL:HG11	1:C:125:ARG:NH1	2.33	0.44
2:L:305:VAL:HG22	2:L:316:VAL:CG1	2.47	0.44
1:D:689:LEU:HD12	1:D:689:LEU:O	2.18	0.44
1:E:419:TRP:CE2	1:E:537:GLU:HB3	2.53	0.44
1:D:266:VAL:HG12	1:D:279:THR:HG22	1.97	0.44
1:B:580:GLU:O	1:B:581:ALA:C	2.56	0.44
2:K:276:THR:HG22	2:K:277:VAL:N	2.31	0.44
1:D:1164:ARG:HH11	1:D:1166:ASP:CG	2.21	0.44
1:F:1164:ARG:HH11	1:F:1166:ASP:CG	2.21	0.44
1:D:303:LEU:O	1:D:303:LEU:HG	2.17	0.44
1:A:369:THR:C	1:A:371:MET:H	2.20	0.44
1:E:369:THR:C	1:E:371:MET:H	2.20	0.44
1:F:207:TYR:CD1	1:F:207:TYR:N	2.85	0.44
4:A:2474:FMN:H1'2	4:A:2474:FMN:H9	1.70	0.44
1:C:428:GLU:O	1:C:429:LEU:C	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:440:SER:O	1:B:441:ASP:OD1	2.36	0.44
1:B:1260:GLN:O	1:B:1261:PRO:C	2.56	0.44
1:F:1016:ALA:O	1:F:1017:ASN:HB2	2.17	0.44
1:A:683:LEU:HA	1:A:683:LEU:HD23	1.56	0.44
1:F:1070:ASP:OD1	1:F:1070:ASP:C	2.55	0.44
1:E:286:ARG:HA	1:E:286:ARG:HD3	1.60	0.44
1:B:345:MET:HG3	1:B:346:ASP:N	2.32	0.44
1:E:780:ARG:HH21	2:L:54:PHE:HD1	1.60	0.44
2:L:53:PRO:HD2	2:L:56:GLN:HE21	1.82	0.44
2:K:110:ILE:HB	2:K:115:HIS:HE1	1.81	0.44
1:A:1435:THR:HG23	1:A:1437:SER:CB	2.47	0.44
1:C:1395:TYR:CE2	1:C:1443:ILE:CD1	3.01	0.44
2:J:295:LEU:HD21	2:J:319:LEU:HD13	1.99	0.44
1:E:648:GLU:HG2	1:E:654:TYR:CE1	2.53	0.44
2:K:302:MET:CE	2:K:334:VAL:CA	2.95	0.44
2:K:350:PRO:HG3	2:K:380:PRO:HA	1.98	0.44
1:C:266:VAL:HG12	1:C:266:VAL:O	2.16	0.44
1:F:850:ARG:NH1	1:F:878:ILE:HB	2.33	0.44
1:D:500:ARG:NH2	1:D:1039:LYS:O	2.50	0.44
1:D:731:SER:HA	1:D:747:SER:HB2	1.99	0.44
2:H:271:VAL:CG1	2:H:281:GLU:CG	2.95	0.44
2:G:430:LYS:HE3	2:G:439:ALA:O	2.18	0.44
2:G:454:ILE:CD1	2:G:458:ARG:HG2	2.48	0.44
1:E:59:VAL:HG12	1:E:60:LYS:N	2.32	0.44
2:K:181:ARG:CD	2:K:187:VAL:CG1	2.94	0.44
2:J:281:GLU:O	2:J:281:GLU:HG3	2.17	0.44
2:I:317:LYS:CE	2:I:345:ILE:CG1	2.95	0.44
2:I:350:PRO:HG3	2:I:380:PRO:CA	2.47	0.44
2:K:215:HIS:HD2	2:K:218:PHE:HD1	1.65	0.44
2:H:290:LYS:HD3	2:H:393:ASP:CG	2.38	0.44
2:I:145:GLU:OE2	2:I:468:ALA:HB1	2.17	0.44
2:I:71:LEU:HD21	2:I:76:ARG:C	2.37	0.44
2:J:206:LEU:HA	2:J:206:LEU:HD22	1.91	0.44
2:J:32:TYR:CE2	2:J:194:LYS:HA	2.53	0.44
2:I:271:VAL:CG1	2:I:281:GLU:CG	2.95	0.44
2:G:350:PRO:HG2	2:G:374:ALA:HA	1.99	0.44
2:L:32:TYR:HE2	2:L:194:LYS:CA	2.30	0.44
2:L:462:GLU:O	2:L:465:HIS:HB3	2.18	0.44
2:L:249:LYS:CD	2:L:258:ILE:HD13	2.47	0.44
2:I:177:ASP:OD2	2:I:182:MET:HE3	2.18	0.44
1:B:515:ARG:NE	1:B:1367:TYR:HE1	2.09	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:705:LEU:HA	1:B:705:LEU:HD23	1.18	0.44
1:B:235:ASN:HD22	1:B:236:THR:H	1.61	0.44
1:E:309:THR:HG22	1:E:310:PRO:O	2.17	0.44
2:K:305:VAL:HG22	2:K:316:VAL:CG1	2.47	0.44
1:E:562:MET:CE	1:E:566:ALA:HB2	2.46	0.44
1:F:920:GLU:CB	1:F:1256:MET:HE2	2.35	0.44
1:A:582:LEU:CB	1:A:755:GLN:HE21	2.30	0.44
1:E:400:LEU:HA	1:E:400:LEU:HD12	1.76	0.44
1:A:419:TRP:CE2	1:A:537:GLU:HB3	2.53	0.44
1:E:565:THR:HG22	1:E:603:HIS:HD2	1.83	0.44
2:K:197:LYS:CD	2:K:275:ASP:H	2.30	0.44
1:A:820:ARG:CB	1:A:821:PRO:CD	2.96	0.44
1:D:671:ALA:O	1:D:675:ILE:HD12	2.17	0.44
1:F:266:VAL:HG12	1:F:279:THR:HG22	1.97	0.44
1:C:1047:MET:O	1:C:1048:GLY:C	2.56	0.44
1:E:572:THR:HG21	1:E:615:ARG:HE	1.82	0.44
1:B:1164:ARG:HH11	1:B:1166:ASP:CG	2.21	0.44
1:D:1346:PHE:O	1:D:1347:ALA:HB3	2.17	0.44
1:D:1329:TYR:HD1	1:D:1348:VAL:HG13	1.82	0.44
1:F:622:LEU:HD13	1:F:739:PHE:HZ	1.82	0.44
1:F:1346:PHE:O	1:F:1347:ALA:HB3	2.17	0.44
1:F:1347:ALA:O	1:F:1348:VAL:C	2.54	0.44
1:A:499:PHE:HE2	1:A:742:MET:CE	2.26	0.44
1:B:289:ARG:NH1	1:B:535:GLU:HB2	2.33	0.44
1:C:1315:LEU:HD13	1:C:1320:ASN:ND2	2.33	0.44
1:C:660:GLY:HA2	1:C:721:GLY:N	2.32	0.44
1:C:858:MET:HA	4:C:2474:FMN:C5A	2.48	0.44
1:D:230:HIS:HE1	1:D:234:ILE:HG13	1.82	0.44
1:D:8:ALA:HA	1:D:362:LEU:HD12	2.00	0.44
1:D:651:ASP:OD1	1:D:651:ASP:N	2.38	0.44
1:F:9:ILE:HD13	1:F:9:ILE:HG21	1.59	0.44
1:B:928:LEU:HA	1:B:928:LEU:HD23	1.65	0.44
1:F:1315:LEU:HD23	1:F:1315:LEU:HA	1.69	0.44
1:A:442:MET:CE	1:A:447:LEU:N	2.81	0.44
1:E:452:GLN:CG	1:E:764:THR:HG22	2.48	0.44
1:C:442:MET:CE	1:C:447:LEU:N	2.81	0.44
1:C:442:MET:HE3	1:C:447:LEU:N	2.32	0.44
1:C:782:ARG:HG3	2:K:52:VAL:HA	0.89	0.44
1:B:850:ARG:NH1	1:B:878:ILE:HB	2.33	0.44
1:A:307:GLN:HB2	1:A:1403:LEU:HD22	1.99	0.44
1:A:1445:ASN:HB2	2:L:373:ASP:OD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:102:ARG:HG3	2:L:330:SER:OG	2.17	0.44
2:J:317:LYS:CE	2:J:345:ILE:CD1	2.94	0.44
1:A:706:LYS:NZ	1:A:940:GLU:OE1	2.40	0.44
2:K:290:LYS:CG	2:K:291:HIS:N	2.79	0.44
1:F:254:PRO:CG	1:F:255:ALA:N	2.81	0.44
1:E:250:ARG:NH2	1:E:639:PHE:CE1	2.79	0.44
1:A:554:GLU:OE2	1:A:697:LYS:HE3	2.17	0.44
2:G:191:PRO:HB2	2:G:193:PHE:CE2	2.52	0.44
2:G:96:ARG:NH2	2:G:199:VAL:HG21	2.31	0.44
2:G:32:TYR:CE2	2:G:194:LYS:HA	2.53	0.44
2:G:71:LEU:HD21	2:G:76:ARG:CA	2.46	0.44
2:K:462:GLU:O	2:K:465:HIS:HB3	2.18	0.44
2:I:443:ILE:HD12	2:I:444:VAL:HG23	1.99	0.44
2:J:32:TYR:HE2	2:J:194:LYS:CA	2.30	0.44
2:J:423:LEU:N	2:J:423:LEU:HD22	2.28	0.44
2:J:443:ILE:HD12	2:J:444:VAL:HG23	1.99	0.44
2:J:96:ARG:HE	2:J:199:VAL:HG21	1.82	0.44
1:B:293:MET:HG2	1:B:410:LEU:HD23	2.00	0.44
2:G:102:ARG:HG3	2:G:330:SER:OG	2.17	0.44
1:C:1113:CYS:C	1:C:1115:VAL:N	2.71	0.44
2:L:31:ILE:HD11	2:L:194:LYS:HG2	2.00	0.44
2:H:34:ARG:HG3	2:H:125:LYS:CE	2.46	0.44
1:C:1156:ARG:HB2	1:C:1156:ARG:HE	1.72	0.44
1:F:1366:GLU:CG	1:F:1367:TYR:CE2	3.00	0.44
1:A:839:PRO:HG2	1:A:842:GLU:HB2	2.00	0.44
1:A:350:LEU:HD23	1:A:350:LEU:HA	1.55	0.44
1:F:1075:THR:HG22	1:F:1076:GLY:N	2.31	0.44
1:A:309:THR:HG22	1:A:310:PRO:O	2.17	0.44
1:F:1210:THR:CG2	1:F:1211:LEU:N	2.75	0.44
1:C:1053:HIS:ND1	1:C:1062:ARG:HD3	2.33	0.44
1:B:696:TYR:CZ	1:B:700:ILE:HD11	2.52	0.44
1:D:558:MET:O	1:D:560:ASP:N	2.51	0.44
1:B:558:MET:O	1:B:560:ASP:N	2.51	0.44
1:E:15:ARG:O	1:E:16:SER:C	2.53	0.44
1:E:16:SER:O	1:E:20:LYS:CG	2.66	0.44
2:L:269:ASN:HD22	2:L:273:LEU:CD2	2.30	0.44
2:H:269:ASN:HD22	2:H:273:LEU:CD2	2.30	0.44
1:A:316:LEU:O	1:A:319:TYR:N	2.50	0.44
1:C:313:HIS:N	1:C:313:HIS:CD2	2.83	0.44
1:A:179:TYR:HD2	1:A:192:TYR:CD2	2.35	0.44
1:E:831:LEU:HD13	1:E:1084:MET:HE3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1417:VAL:CG1	1:D:1419:HIS:H	2.28	0.44
1:C:96:GLU:CA	1:C:96:GLU:OE1	2.54	0.44
1:C:572:THR:HG21	1:C:615:ARG:HE	1.82	0.44
1:F:1057:THR:HG22	1:F:1190:VAL:HG11	1.98	0.44
1:B:1347:ALA:O	1:B:1348:VAL:C	2.54	0.44
1:E:575:VAL:HG13	1:E:759:LEU:CD2	2.47	0.44
1:C:964:MET:O	1:C:965:LEU:HD23	2.18	0.44
1:B:495:LEU:HA	1:B:495:LEU:HD12	1.36	0.44
1:C:498:PHE:H	1:C:498:PHE:HD1	1.64	0.44
1:B:456:LEU:HD23	1:B:456:LEU:HA	1.11	0.44
1:A:81:ILE:HD13	1:B:216:PHE:CZ	2.53	0.44
2:J:290:LYS:HD3	2:J:393:ASP:CG	2.38	0.44
2:J:324:ARG:HA	2:J:346:TRP:CZ2	2.46	0.44
2:J:351:GLU:CB	2:J:353:PHE:HB3	2.47	0.44
1:A:704:LEU:C	1:A:706:LYS:H	2.20	0.44
1:B:782:ARG:HH22	2:G:51:GLY:N	1.97	0.44
2:G:50:CYS:SG	2:G:109:VAL:HG21	2.58	0.44
1:E:1001:VAL:O	1:E:1002:SER:C	2.55	0.44
1:D:1170:GLN:OE1	1:D:1183:LEU:HB2	2.17	0.44
1:C:1139:PHE:CD1	1:C:1139:PHE:N	2.86	0.44
1:C:515:ARG:HH22	1:C:966:ILE:CB	2.23	0.44
2:I:290:LYS:HD3	2:I:393:ASP:CG	2.38	0.44
2:I:350:PRO:HG2	2:I:374:ALA:HA	1.99	0.44
2:K:144:ARG:CG	2:K:145:GLU:N	2.81	0.44
2:K:32:TYR:HE2	2:K:194:LYS:CA	2.30	0.44
1:E:1156:ARG:O	1:E:1157:SER:HB3	2.17	0.44
2:H:302:MET:CE	2:H:334:VAL:CA	2.95	0.44
2:H:179:TYR:HB3	2:H:181:ARG:HH12	1.81	0.44
2:I:32:TYR:HE2	2:I:194:LYS:CA	2.30	0.44
2:I:161:ALA:CB	2:I:454:ILE:HG12	2.40	0.44
2:J:166:LEU:HD22	2:J:169:LYS:HE2	1.99	0.44
2:J:132:TRP:CG	2:J:202:ARG:HD2	2.52	0.44
2:J:34:ARG:HG3	2:J:125:LYS:CE	2.46	0.44
2:J:93:ILE:HG23	2:J:94:CYS:N	2.33	0.44
2:L:144:ARG:CG	2:L:145:GLU:N	2.81	0.44
2:L:415:LEU:HD22	2:L:415:LEU:C	2.37	0.44
2:L:469:LYS:HZ3	2:L:476:VAL:CA	2.29	0.44
2:H:32:TYR:HE2	2:H:194:LYS:CA	2.30	0.44
2:H:31:ILE:HD11	2:H:194:LYS:HG2	2.00	0.44
2:H:32:TYR:CE2	2:H:194:LYS:HA	2.53	0.44
2:H:240:THR:OG1	8:H:484:FAD:N7A	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:418:THR:HG1	2:I:420:TRP:HD1	1.61	0.44
1:A:353:MET:HA	1:A:366:GLY:O	2.18	0.44
2:H:424:LEU:HA	2:H:424:LEU:HD13	1.75	0.44
1:D:235:ASN:HD22	1:D:236:THR:H	1.61	0.44
1:D:227:MET:HE2	1:D:282:GLU:HG3	1.99	0.44
1:E:102:TYR:HE2	1:E:144:PHE:CD1	2.34	0.44
1:A:1052:VAL:O	1:A:1053:HIS:C	2.51	0.44
1:F:403:ASP:OD1	1:F:407:LYS:HG3	2.18	0.44
1:D:960:THR:CG2	1:D:963:VAL:HG23	2.47	0.44
1:D:1097:LEU:HA	1:D:1097:LEU:HD23	1.69	0.44
1:D:219:TRP:N	1:D:220:PRO:CD	2.81	0.44
1:A:16:SER:O	1:A:20:LYS:CG	2.66	0.44
1:A:588:ARG:HD3	1:A:588:ARG:HH11	1.59	0.44
1:F:37:ASP:OD1	1:F:39:LYS:N	2.34	0.44
1:E:298:LEU:HD23	1:E:324:MET:CG	2.44	0.44
1:E:1084:MET:SD	1:E:1168:LEU:HD21	2.57	0.44
1:C:979:ASP:O	1:C:980:LEU:C	2.55	0.44
1:B:739:PHE:O	1:B:740:PRO:C	2.55	0.44
1:C:1124:LEU:HD12	1:C:1124:LEU:HA	1.28	0.44
1:E:1420:TYR:OH	1:E:1466:LEU:CD2	2.66	0.44
1:A:1468:VAL:HG12	1:A:1468:VAL:O	2.15	0.44
1:E:660:GLY:HA2	1:E:721:GLY:N	2.32	0.44
1:E:858:MET:HA	4:E:2474:FMN:C5A	2.48	0.44
1:E:871:LEU:HD23	1:E:871:LEU:HA	1.68	0.44
2:H:266:THR:HG23	2:H:270:LYS:NZ	2.33	0.44
1:E:1141:PHE:O	1:E:1142:LEU:C	2.55	0.44
1:D:117:ILE:HD13	1:D:117:ILE:HG23	1.35	0.44
1:C:869:GLY:O	1:C:870:THR:C	2.54	0.44
1:B:165:ASN:O	1:B:166:ASP:HB2	2.18	0.44
1:B:1184:ASN:CB	1:B:1185:PRO:CD	2.80	0.44
1:E:307:GLN:HB2	1:E:1403:LEU:HD22	1.99	0.44
1:C:1001:VAL:O	1:C:1002:SER:C	2.55	0.44
1:B:254:PRO:CG	1:B:255:ALA:N	2.81	0.44
1:F:826:ARG:CG	1:F:826:ARG:NH1	2.67	0.44
1:A:359:THR:CG2	1:A:378:GLN:CA	2.95	0.44
1:F:442:MET:HB3	1:F:442:MET:HE3	1.78	0.44
1:F:764:THR:CG2	1:F:764:THR:O	2.63	0.44
2:G:240:THR:OG1	8:G:484:FAD:N7A	2.50	0.44
1:C:59:VAL:HG12	1:C:60:LYS:N	2.32	0.44
2:J:188:TYR:OH	2:J:262:LEU:HD23	2.18	0.44
1:E:731:SER:O	1:E:734:LEU:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:175:VAL:HG13	2:K:175:VAL:O	2.18	0.44
2:K:96:ARG:HE	2:K:199:VAL:HG21	1.82	0.44
2:K:32:TYR:CE2	2:K:194:LYS:HA	2.53	0.44
2:H:350:PRO:HG3	2:H:380:PRO:HA	1.98	0.44
2:G:181:ARG:CD	2:G:187:VAL:CG1	2.94	0.44
2:I:426:ASP:O	2:I:430:LYS:HA	2.17	0.44
2:I:60:PRO:O	2:I:455:ARG:HD3	2.18	0.44
2:I:69:LEU:HA	2:I:72:THR:HG22	2.00	0.44
2:J:215:HIS:HD2	2:J:218:PHE:HD1	1.65	0.44
2:I:281:GLU:HG3	2:I:281:GLU:O	2.17	0.44
1:B:913:GLY:CA	1:B:1349:ARG:CD	2.94	0.44
1:F:1440:ALA:O	1:F:1441:ALA:C	2.53	0.44
2:G:290:LYS:HD3	2:G:393:ASP:CG	2.38	0.44
2:G:304:CYS:CA	2:G:307:THR:HG22	2.48	0.44
2:L:32:TYR:CD1	2:L:34:ARG:HD3	2.53	0.44
2:H:96:ARG:NH2	2:H:199:VAL:HG21	2.31	0.44
2:H:430:LYS:HE3	2:H:439:ALA:O	2.17	0.44
2:H:64:ASN:CG	2:H:67:ASP:HB2	2.39	0.44
2:H:96:ARG:HE	2:H:199:VAL:HG21	1.82	0.44
2:I:188:TYR:OH	2:I:262:LEU:HD23	2.18	0.44
1:D:30:HIS:CD2	1:D:31:ARG:N	2.86	0.44
1:F:30:HIS:CD2	1:F:31:ARG:N	2.86	0.44
2:G:383:ILE:HD13	2:G:383:ILE:C	2.37	0.44
2:L:371:VAL:CG2	2:L:386:SER:CB	2.94	0.44
1:A:961:PRO:C	1:A:963:VAL:H	2.20	0.44
2:K:178:ARG:HH12	2:K:243:TYR:HB2	1.83	0.44
1:F:528:ASN:O	1:F:529:LEU:HD23	2.17	0.44
1:E:1053:HIS:ND1	1:E:1062:ARG:HD3	2.33	0.44
1:D:701:ASP:C	1:D:703:GLY:N	2.69	0.44
1:B:689:LEU:HD12	1:B:689:LEU:O	2.18	0.44
1:B:558:MET:C	1:B:560:ASP:N	2.69	0.44
1:B:375:ASP:OD2	1:B:377:THR:CB	2.61	0.44
1:E:602:THR:C	1:E:640:THR:HG22	2.38	0.44
1:C:316:LEU:O	1:C:319:TYR:N	2.50	0.44
1:E:918:THR:HG21	1:E:1256:MET:HE2	1.99	0.44
1:D:985:TYR:O	1:D:988:LYS:N	2.50	0.44
1:E:820:ARG:CB	1:E:821:PRO:CD	2.96	0.44
1:C:908:LYS:HD2	1:C:921:TYR:CD2	2.53	0.44
1:C:918:THR:O	1:C:921:TYR:N	2.51	0.44
1:B:59:VAL:HG22	1:B:105:TYR:HD2	1.78	0.44
1:A:1289:MET:HE2	1:A:1289:MET:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:353:MET:HA	1:B:353:MET:HE2	2.00	0.44
1:D:454:PHE:CG	1:D:648:GLU:HB2	2.53	0.44
1:F:1447:TRP:O	1:F:1450:GLU:N	2.51	0.44
1:E:337:ASP:O	1:E:338:GLY:C	2.56	0.44
1:C:302:ALA:CA	1:C:347:ARG:NH1	2.81	0.44
1:F:1336:LEU:HD23	1:F:1355:VAL:CG1	2.48	0.44
1:F:757:LYS:O	1:F:758:VAL:C	2.53	0.44
1:E:964:MET:O	1:E:965:LEU:HD23	2.18	0.44
1:C:468:MET:O	1:C:472:GLY:N	2.51	0.44
1:A:120:LYS:O	1:A:123:ALA:HB3	2.18	0.44
2:J:266:THR:HG23	2:J:270:LYS:NZ	2.33	0.44
1:A:836:ALA:HA	1:A:837:PRO:HD3	1.78	0.44
1:C:261:GLN:HE21	1:C:264:LYS:HD2	1.83	0.44
1:C:1173:ARG:HH22	1:C:1178:LEU:HD23	1.83	0.44
1:F:943:GLN:HE21	1:F:1033:SER:HA	1.83	0.44
1:D:345:MET:HG3	1:D:346:ASP:N	2.32	0.44
2:J:419:ARG:C	2:J:419:ARG:HD3	2.37	0.44
2:L:266:THR:HG23	2:L:270:LYS:NZ	2.33	0.44
1:B:81:ILE:O	1:B:81:ILE:CG2	2.67	0.43
1:E:1228:LYS:C	1:E:1229:MET:HG2	2.39	0.43
1:E:216:PHE:HA	1:E:217:PRO:HD3	1.73	0.43
2:I:54:PHE:HB2	2:I:107:ASN:O	2.18	0.43
1:D:780:ARG:NH2	2:H:109:VAL:HG11	2.33	0.43
1:E:521:SER:C	1:E:522:LEU:HD23	2.38	0.43
1:A:509:PRO:HA	1:A:510:PRO:HD3	1.81	0.43
2:K:322:ARG:CD	2:K:349:ALA:CB	2.94	0.43
2:K:345:ILE:HD13	2:K:345:ILE:N	2.17	0.43
1:C:634:SER:O	1:C:635:ASN:HB2	2.16	0.43
1:F:743:VAL:HG11	1:F:745:ARG:HG3	2.00	0.43
2:G:34:ARG:HG3	2:G:125:LYS:CE	2.46	0.43
2:G:449:LEU:HD22	2:G:452:TRP:CE2	2.53	0.43
2:G:64:ASN:CG	2:G:67:ASP:HB2	2.38	0.43
2:I:302:MET:CE	2:I:334:VAL:CA	2.95	0.43
2:K:430:LYS:HE3	2:K:439:ALA:O	2.18	0.43
2:K:449:LEU:HD22	2:K:452:TRP:CE2	2.53	0.43
2:K:454:ILE:CD1	2:K:458:ARG:HG2	2.48	0.43
2:K:458:ARG:HB3	2:K:458:ARG:NH2	2.32	0.43
2:K:64:ASN:CG	2:K:67:ASP:HB2	2.38	0.43
2:H:317:LYS:HE3	2:H:345:ILE:HG13	2.00	0.43
1:E:1245:ARG:O	1:E:1246:LEU:C	2.55	0.43
2:G:181:ARG:NH2	2:G:188:TYR:CD1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:188:TYR:OH	2:H:262:LEU:HD23	2.18	0.43
2:I:229:LEU:HD22	2:I:236:VAL:HG12	2.00	0.43
2:I:93:ILE:HG23	2:I:94:CYS:N	2.33	0.43
2:J:430:LYS:HE3	2:J:439:ALA:O	2.18	0.43
2:J:240:THR:OG1	8:J:484:FAD:N7A	2.50	0.43
2:L:175:VAL:HG13	2:L:175:VAL:O	2.18	0.43
2:L:191:PRO:HB2	2:L:193:PHE:CE2	2.52	0.43
2:L:32:TYR:CE2	2:L:194:LYS:HA	2.53	0.43
2:L:71:LEU:HD21	2:L:76:ARG:C	2.37	0.43
2:H:443:ILE:HD12	2:H:444:VAL:HG23	1.99	0.43
2:H:462:GLU:O	2:H:465:HIS:HB3	2.18	0.43
2:I:181:ARG:NH2	2:I:188:TYR:CD1	2.86	0.43
2:H:178:ARG:HH12	2:H:243:TYR:HB2	1.83	0.43
2:G:371:VAL:CG2	2:G:386:SER:CB	2.94	0.43
1:D:1366:GLU:OE2	1:D:1367:TYR:CE2	2.71	0.43
1:C:987:LEU:HA	1:C:987:LEU:HD23	1.70	0.43
2:H:418:THR:CA	2:H:424:LEU:CD2	2.95	0.43
2:H:366:ARG:CG	2:H:391:GLN:HA	2.28	0.43
1:A:114:VAL:HG11	1:A:125:ARG:NH1	2.33	0.43
1:A:125:ARG:HG3	1:A:219:TRP:CZ2	2.53	0.43
1:A:1351:SER:OG	1:A:1369:THR:HB	2.18	0.43
1:D:403:ASP:OD1	1:D:407:LYS:HG3	2.18	0.43
1:E:1351:SER:OG	1:E:1369:THR:HB	2.18	0.43
1:A:218:THR:CG2	1:A:221:LEU:HG	2.44	0.43
1:F:426:LEU:HD23	1:F:543:LEU:HB3	1.93	0.43
1:F:559:ARG:O	1:F:559:ARG:HG3	2.17	0.43
1:F:562:MET:HB2	1:F:563:GLY:H	1.54	0.43
1:C:565:THR:HG22	1:C:603:HIS:HD2	1.83	0.43
1:A:6:ILE:HD13	1:A:20:LYS:HB2	1.99	0.43
1:A:828:LEU:HD22	1:A:1172:SER:CB	2.38	0.43
1:C:438:GLU:OE1	1:C:553:ALA:HB2	2.18	0.43
1:E:908:LYS:HD2	1:E:921:TYR:CD2	2.53	0.43
1:D:643:ASN:HD22	1:D:665:THR:HG21	1.83	0.43
2:G:277:VAL:CG1	2:G:278:GLU:N	2.81	0.43
1:A:573:PHE:CB	1:A:574:PRO:CD	2.96	0.43
1:B:511:ILE:HG22	1:B:512:ASP:H	1.79	0.43
1:F:312:ASN:HB2	1:F:411:ALA:CB	2.46	0.43
1:A:337:ASP:O	1:A:338:GLY:C	2.56	0.43
1:B:1467:GLU:O	1:B:1469:PRO:HD3	2.18	0.43
1:A:1348:VAL:CG1	1:A:1348:VAL:O	2.65	0.43
1:B:1336:LEU:HD23	1:B:1355:VAL:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:495:LEU:HA	1:E:495:LEU:HD12	1.53	0.43
1:B:720:ARG:C	1:B:722:GLY:N	2.69	0.43
1:A:197:ASP:OD1	1:A:199:ARG:N	2.38	0.43
1:E:1360:CYS:O	1:E:1361:GLY:O	2.35	0.43
2:I:266:THR:HG23	2:I:270:LYS:NZ	2.33	0.43
1:B:860:MET:HB2	1:B:860:MET:HE2	1.82	0.43
1:F:1463:LEU:HA	1:F:1463:LEU:HD23	1.71	0.43
1:F:308:THR:O	1:F:308:THR:CG2	2.66	0.43
1:E:261:GLN:HE21	1:E:264:LYS:HD2	1.83	0.43
1:D:840:VAL:O	1:D:841:ASP:C	2.57	0.43
1:A:447:LEU:CD1	1:A:670:LEU:HD21	2.43	0.43
2:J:54:PHE:HB2	2:J:107:ASN:O	2.18	0.43
1:C:447:LEU:CD1	1:C:670:LEU:HD21	2.43	0.43
1:D:1260:GLN:O	1:D:1261:PRO:C	2.56	0.43
1:B:1184:ASN:C	1:B:1186:ARG:N	2.71	0.43
2:L:290:LYS:CG	2:L:291:HIS:N	2.79	0.43
2:G:54:PHE:HB2	2:G:107:ASN:O	2.18	0.43
2:K:297:GLY:O	2:K:327:MET:HE3	2.18	0.43
1:F:731:SER:HA	1:F:747:SER:HB2	1.99	0.43
1:F:442:MET:HB2	1:F:673:GLU:HG2	2.01	0.43
1:B:442:MET:HE3	1:B:442:MET:HB3	1.76	0.43
2:G:195:LEU:HD12	2:G:196:GLU:O	2.19	0.43
1:E:515:ARG:HH22	1:E:966:ILE:CB	2.23	0.43
1:F:1400:SER:C	1:F:1402:PRO:HD2	2.38	0.43
1:A:515:ARG:HH22	1:A:966:ILE:CB	2.23	0.43
2:K:137:VAL:HG13	2:K:209:ASP:CG	2.39	0.43
2:K:237:LEU:C	2:K:237:LEU:HD22	2.39	0.43
2:I:237:LEU:HD22	2:I:237:LEU:C	2.39	0.43
2:I:32:TYR:CE2	2:I:194:LYS:HA	2.53	0.43
2:I:449:LEU:CD2	2:I:452:TRP:CG	2.93	0.43
2:I:80:ALA:HB3	2:I:127:ILE:HD11	1.96	0.43
2:J:32:TYR:CD1	2:J:34:ARG:HD3	2.53	0.43
2:J:64:ASN:CG	2:J:67:ASP:HB2	2.38	0.43
2:G:295:LEU:HD21	2:G:319:LEU:HD13	1.99	0.43
2:G:297:GLY:O	2:G:327:MET:HE3	2.18	0.43
2:L:306:ARG:NH1	2:L:336:HIS:HB2	2.34	0.43
2:L:449:LEU:HD22	2:L:452:TRP:CE2	2.53	0.43
2:H:206:LEU:HD22	2:H:206:LEU:HA	1.91	0.43
2:H:69:LEU:HA	2:H:72:THR:HG22	2.00	0.43
1:F:1236:ARG:C	1:F:1238:THR:N	2.70	0.43
1:B:30:HIS:HD2	1:B:31:ARG:H	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1156:ARG:O	1:A:1157:SER:HB3	2.18	0.43
2:J:418:THR:CA	2:J:424:LEU:CD2	2.95	0.43
1:E:295:LYS:HE2	1:E:299:VAL:HG11	1.98	0.43
1:C:125:ARG:HG3	1:C:219:TRP:CZ2	2.53	0.43
1:F:957:ARG:HD2	1:F:965:LEU:CD1	2.48	0.43
1:B:702:ASP:O	1:B:703:GLY:C	2.55	0.43
1:B:700:ILE:C	1:B:703:GLY:H	2.22	0.43
1:F:689:LEU:O	1:F:689:LEU:HD12	2.18	0.43
1:E:218:THR:CG2	1:E:221:LEU:HG	2.44	0.43
1:B:838:VAL:HG13	1:B:839:PRO:CD	2.32	0.43
1:F:219:TRP:N	1:F:220:PRO:CD	2.81	0.43
2:L:197:LYS:CD	2:L:275:ASP:H	2.30	0.43
1:C:903:TRP:N	1:C:903:TRP:CD1	2.86	0.43
1:B:1212:ASP:OD1	1:B:1243:GLY:N	2.34	0.43
1:B:454:PHE:CG	1:B:648:GLU:HB2	2.53	0.43
1:F:454:PHE:CG	1:F:648:GLU:HB2	2.53	0.43
1:A:1468:VAL:HG12	1:A:1469:PRO:O	2.19	0.43
1:E:302:ALA:CA	1:E:347:ARG:NH1	2.81	0.43
1:D:1467:GLU:O	1:D:1469:PRO:HD3	2.18	0.43
1:D:806:SER:HG	1:D:809:THR:CB	2.30	0.43
1:A:495:LEU:HD12	1:A:495:LEU:HA	1.53	0.43
1:F:612:GLY:O	1:F:762:HIS:HE1	1.99	0.43
1:B:1003:ARG:NH1	1:B:1004:SER:O	2.50	0.43
1:B:9:ILE:HD13	1:B:9:ILE:HG21	1.59	0.43
1:D:1158:LEU:HA	1:D:1158:LEU:HD12	1.80	0.43
1:D:1032:ALA:O	1:D:1033:SER:HB2	2.19	0.43
1:F:8:ALA:HA	1:F:362:LEU:HD12	2.00	0.43
1:A:1101:GLY:O	1:A:1102:CYS:C	2.57	0.43
2:J:110:ILE:HD11	2:J:118:VAL:CA	2.48	0.43
2:K:118:VAL:HG22	2:K:118:VAL:H	1.08	0.43
1:B:1447:TRP:O	1:B:1450:GLU:N	2.51	0.43
1:C:1395:TYR:HE1	1:C:1397:LEU:HG	1.82	0.43
1:E:227:MET:HE3	1:E:282:GLU:HG2	2.00	0.43
2:K:295:LEU:HD21	2:K:319:LEU:HD13	1.99	0.43
1:C:246:ALA:C	1:C:248:GLU:N	2.70	0.43
1:E:248:GLU:OE2	1:E:266:VAL:N	2.44	0.43
1:F:1184:ASN:C	1:F:1186:ARG:N	2.71	0.43
1:D:763:ALA:C	1:D:765:ALA:N	2.72	0.43
2:G:163:ALA:HB3	2:G:207:LEU:HD21	2.00	0.43
2:G:31:ILE:HD11	2:G:194:LYS:HG2	2.00	0.43
2:G:237:LEU:HD22	2:G:237:LEU:C	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:305:VAL:HG22	2:G:316:VAL:CG1	2.47	0.43
2:G:449:LEU:HD23	2:G:452:TRP:H	1.83	0.43
2:K:181:ARG:NH2	2:K:188:TYR:CD1	2.86	0.43
1:B:1400:SER:C	1:B:1402:PRO:HD2	2.38	0.43
2:K:146:LEU:CD2	2:K:146:LEU:N	2.81	0.43
2:K:165:GLU:CB	2:K:169:LYS:HZ3	2.29	0.43
2:K:173:VAL:CG2	2:K:174:HIS:N	2.81	0.43
2:K:32:TYR:CD1	2:K:34:ARG:HD3	2.53	0.43
2:K:71:LEU:CD1	2:K:80:ALA:N	2.81	0.43
1:C:778:PHE:HE2	1:C:1039:LYS:HD2	1.66	0.43
1:A:1113:CYS:HB3	1:A:1119:VAL:CG1	2.49	0.43
2:I:163:ALA:HB3	2:I:207:LEU:HD21	2.00	0.43
2:I:96:ARG:NH2	2:I:199:VAL:HG21	2.31	0.43
2:I:32:TYR:CD1	2:I:34:ARG:HD3	2.53	0.43
2:I:447:ALA:HB1	2:I:452:TRP:CD2	2.50	0.43
2:J:423:LEU:CD2	2:J:423:LEU:N	2.80	0.43
2:J:426:ASP:O	2:J:430:LYS:HA	2.17	0.43
2:L:146:LEU:N	2:L:146:LEU:CD2	2.81	0.43
2:L:166:LEU:HD22	2:L:169:LYS:HE2	2.00	0.43
2:L:215:HIS:CD2	2:L:218:PHE:HD1	2.35	0.43
2:L:454:ILE:CD1	2:L:458:ARG:HG2	2.48	0.43
2:H:165:GLU:CB	2:H:169:LYS:HZ3	2.30	0.43
2:H:32:TYR:CD1	2:H:34:ARG:HD3	2.53	0.43
2:H:93:ILE:HG23	2:H:94:CYS:N	2.33	0.43
2:G:405:ASP:OD1	2:G:407:PRO:HD2	2.18	0.43
1:B:508:ASN:HB2	1:B:509:PRO:CD	2.47	0.43
1:B:528:ASN:O	1:B:529:LEU:HD23	2.17	0.43
1:B:420:VAL:HA	1:B:540:THR:HG21	2.00	0.43
1:E:353:MET:HA	1:E:366:GLY:O	2.18	0.43
1:E:1211:LEU:HA	1:E:1211:LEU:HD12	1.72	0.43
1:C:309:THR:HB	1:C:314:LYS:HE3	1.99	0.43
1:D:1050:SER:O	1:D:1051:GLU:O	2.36	0.43
1:D:964:MET:O	1:D:965:LEU:HD23	2.17	0.43
1:A:1022:LEU:HA	1:A:1068:ARG:O	2.19	0.43
4:D:2474:FMN:H1'2	4:D:2474:FMN:H9	1.57	0.43
2:G:197:LYS:CD	2:G:275:ASP:H	2.30	0.43
1:C:420:VAL:O	1:C:422:ASN:N	2.50	0.43
2:K:269:ASN:HD22	2:K:273:LEU:CD2	2.30	0.43
1:A:438:GLU:OE1	1:A:553:ALA:HB2	2.18	0.43
1:F:580:GLU:O	1:F:581:ALA:C	2.56	0.43
1:C:191:PHE:O	1:C:191:PHE:CD1	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:277:VAL:CG1	2:L:278:GLU:N	2.81	0.43
1:B:511:ILE:HD13	1:B:511:ILE:HG21	1.76	0.43
1:B:622:LEU:HD13	1:B:739:PHE:HZ	1.82	0.43
1:C:337:ASP:O	1:C:338:GLY:C	2.56	0.43
1:E:621:ILE:HG12	1:E:657:VAL:HG11	2.00	0.43
1:D:98:LEU:HD23	1:D:98:LEU:HA	1.62	0.43
1:D:869:GLY:O	1:D:870:THR:C	2.52	0.43
1:A:1315:LEU:HD13	1:A:1320:ASN:ND2	2.33	0.43
1:C:120:LYS:O	1:C:123:ALA:HB3	2.18	0.43
1:D:547:SER:C	1:D:549:VAL:H	2.21	0.43
1:C:736:ALA:O	1:C:737:GLU:C	2.53	0.43
1:D:1085:LEU:HA	1:D:1085:LEU:HD23	1.65	0.43
1:D:208:HIS:C	1:D:208:HIS:CD2	2.92	0.43
1:D:1070:ASP:C	1:D:1070:ASP:OD1	2.55	0.43
1:A:1173:ARG:HH22	1:A:1178:LEU:HD23	1.83	0.43
2:J:53:PRO:HD2	2:J:56:GLN:HE21	1.83	0.43
2:K:54:PHE:HB2	2:K:107:ASN:O	2.18	0.43
1:B:500:ARG:NH2	1:B:1039:LYS:O	2.50	0.43
1:B:1427:LEU:O	1:B:1428:ILE:C	2.56	0.43
1:F:777:GLY:C	2:I:52:VAL:HG11	2.39	0.43
2:H:54:PHE:HB2	2:H:107:ASN:O	2.18	0.43
1:E:1425:LYS:CD	1:E:1447:TRP:CD1	3.02	0.43
2:K:317:LYS:HE3	2:K:345:ILE:HG13	2.00	0.43
2:K:350:PRO:HG2	2:K:374:ALA:HA	1.99	0.43
1:D:430:VAL:HG13	1:D:554:GLU:CA	2.37	0.43
1:D:550:LEU:HA	1:D:554:GLU:OE2	2.19	0.43
1:E:636:LEU:O	1:E:639:PHE:N	2.38	0.43
1:D:442:MET:HB3	1:D:442:MET:HE3	1.68	0.43
2:G:306:ARG:NH1	2:G:336:HIS:HB2	2.34	0.43
2:G:32:TYR:CD1	2:G:34:ARG:HD3	2.53	0.43
2:G:60:PRO:O	2:G:455:ARG:HD3	2.18	0.43
2:K:31:ILE:HG12	2:K:193:PHE:CD1	2.54	0.43
2:K:93:ILE:HG23	2:K:94:CYS:N	2.33	0.43
2:I:153:ILE:CG1	2:I:220:VAL:HG22	2.49	0.43
2:J:68:TRP:CH2	2:J:124:GLU:OE1	2.72	0.43
2:J:137:VAL:HG13	2:J:209:ASP:CG	2.39	0.43
2:J:462:GLU:O	2:J:465:HIS:HB3	2.18	0.43
2:L:28:PHE:HZ	2:L:285:LEU:HD21	1.83	0.43
2:L:188:TYR:OH	2:L:262:LEU:HD23	2.18	0.43
2:H:77:LEU:CA	2:H:127:ILE:CD1	2.93	0.43
2:H:32:TYR:CE2	2:H:194:LYS:CA	3.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:92:GLU:HG3	2:H:203:ARG:NH1	2.34	0.43
1:A:330:PRO:HB3	1:A:350:LEU:HB3	2.01	0.43
1:D:420:VAL:HA	1:D:540:THR:HG21	2.00	0.43
1:D:970:PRO:O	1:D:970:PRO:HG2	2.19	0.43
1:E:114:VAL:HG11	1:E:125:ARG:NH1	2.33	0.43
1:A:144:PHE:HD1	1:A:144:PHE:HA	1.68	0.43
1:A:1053:HIS:ND1	1:A:1062:ARG:HD3	2.33	0.43
1:D:381:GLU:CD	1:D:402:ARG:NH1	2.67	0.43
1:A:562:MET:HE3	1:A:566:ALA:HB2	2.00	0.43
1:E:558:MET:C	1:E:560:ASP:N	2.72	0.43
2:G:197:LYS:HG2	2:G:273:LEU:CD1	2.43	0.43
1:F:558:MET:O	1:F:560:ASP:N	2.51	0.43
1:A:420:VAL:O	1:A:422:ASN:N	2.50	0.43
1:C:911:ALA:O	1:C:912:SER:C	2.57	0.43
1:E:78:LEU:HB3	1:E:79:PRO:HD2	2.00	0.43
1:D:580:GLU:O	1:D:581:ALA:C	2.56	0.43
1:E:918:THR:O	1:E:921:TYR:N	2.51	0.43
1:A:191:PHE:CD1	1:A:191:PHE:O	2.72	0.43
1:A:918:THR:O	1:A:921:TYR:N	2.51	0.43
2:K:277:VAL:CG1	2:K:278:GLU:N	2.81	0.43
1:E:210:ARG:HA	3:E:2473:OMT:HE1	2.01	0.43
1:F:1190:VAL:C	1:F:1192:PRO:HD3	2.38	0.43
1:D:1424:LEU:HD23	1:D:1424:LEU:C	2.39	0.43
1:C:30:HIS:N	1:C:30:HIS:CD2	2.85	0.43
1:F:806:SER:HG	1:F:809:THR:H	1.63	0.43
1:F:869:GLY:O	1:F:870:THR:C	2.52	0.43
1:F:78:LEU:HB3	1:F:79:PRO:CD	2.48	0.43
1:D:660:GLY:HA2	1:D:721:GLY:N	2.33	0.43
1:B:78:LEU:HB3	1:B:79:PRO:CD	2.48	0.43
1:E:468:MET:O	1:E:472:GLY:N	2.50	0.43
1:C:509:PRO:HB3	1:C:975:TYR:CD1	2.53	0.43
1:F:1435:THR:HG23	1:F:1437:SER:N	2.34	0.43
1:F:1244:THR:OG1	1:F:1278:ALA:HB3	2.18	0.43
1:B:308:THR:CG2	1:B:308:THR:O	2.66	0.43
1:E:1138:LEU:HA	1:E:1138:LEU:HD12	1.79	0.43
1:C:803:THR:HG22	1:C:803:THR:O	2.08	0.43
1:B:230:HIS:HE1	1:B:234:ILE:HG13	1.82	0.43
2:J:110:ILE:HB	2:J:115:HIS:HE1	1.81	0.43
1:E:1101:GLY:O	1:E:1102:CYS:C	2.57	0.43
1:A:1395:TYR:CE2	1:A:1443:ILE:CD1	3.01	0.43
1:F:780:ARG:NH2	2:I:109:VAL:HG11	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:509:PRO:HB3	1:E:975:TYR:CD1	2.53	0.43
1:E:1425:LYS:HD2	1:E:1447:TRP:CD2	2.54	0.43
1:E:1310:THR:O	1:E:1313:SER:N	2.33	0.43
2:G:31:ILE:HG12	2:G:193:PHE:CD1	2.54	0.43
2:G:32:TYR:HE2	2:G:194:LYS:CA	2.30	0.43
2:G:77:LEU:CA	2:G:127:ILE:CD1	2.93	0.43
1:A:56:LYS:HE2	1:A:67:PRO:O	2.17	0.43
2:K:188:TYR:OH	2:K:262:LEU:HD23	2.18	0.43
2:K:443:ILE:HD12	2:K:444:VAL:HG23	1.99	0.43
2:K:449:LEU:HD23	2:K:452:TRP:H	1.83	0.43
2:I:137:VAL:HG13	2:I:209:ASP:CG	2.39	0.43
2:J:153:ILE:CG1	2:J:220:VAL:HG22	2.49	0.43
2:J:32:TYR:CE2	2:J:194:LYS:CA	3.02	0.43
2:J:96:ARG:NH2	2:J:199:VAL:HG21	2.31	0.43
2:I:264:TYR:CE1	2:I:311:GLN:NE2	2.87	0.43
1:B:284:MET:HE2	1:B:294:VAL:HG13	2.00	0.43
2:G:351:GLU:CB	2:G:353:PHE:HB3	2.47	0.43
2:L:153:ILE:CG1	2:L:220:VAL:CG1	2.96	0.43
2:L:200:VAL:HA	2:L:203:ARG:HD2	1.97	0.43
2:L:201:GLU:HA	2:L:204:VAL:CG1	2.49	0.43
2:L:430:LYS:HE3	2:L:439:ALA:O	2.17	0.43
2:L:449:LEU:HD23	2:L:452:TRP:H	1.83	0.43
2:L:80:ALA:HB3	2:L:127:ILE:HD11	1.96	0.43
2:H:201:GLU:HA	2:H:204:VAL:CG1	2.49	0.43
2:H:237:LEU:C	2:H:237:LEU:HD22	2.39	0.43
1:C:1458:VAL:CG1	1:C:1459:PRO:CD	2.97	0.43
2:I:148:LEU:HB3	2:I:234:VAL:HG23	1.98	0.43
1:A:329:GLY:O	1:A:330:PRO:C	2.56	0.43
1:E:1387:MET:CG	1:E:1387:MET:O	2.41	0.43
1:D:700:ILE:C	1:D:703:GLY:H	2.22	0.43
1:F:251:MET:CE	1:F:533:LEU:HD11	2.49	0.43
1:E:949:VAL:O	1:E:950:THR:O	2.37	0.43
1:E:1022:LEU:HA	1:E:1068:ARG:O	2.19	0.43
1:A:1068:ARG:NE	1:A:1089:GLU:OE1	2.39	0.43
1:B:974:ILE:HG21	1:B:974:ILE:HD13	1.74	0.43
1:E:787:ARG:HH11	1:E:787:ARG:HD3	1.66	0.43
1:A:908:LYS:HD2	1:A:921:TYR:CD2	2.53	0.43
1:E:978:GLU:HG2	1:E:978:GLU:H	1.19	0.43
1:F:643:ASN:HD22	1:F:665:THR:HG21	1.83	0.43
1:F:1329:TYR:HD1	1:F:1348:VAL:HG13	1.82	0.43
1:F:409:HIS:O	1:F:413:LEU:HD23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:621:ILE:HG12	1:A:657:VAL:HG11	2.00	0.43
1:A:1274:GLN:HG2	1:A:1274:GLN:H	1.35	0.43
1:F:144:PHE:HA	1:F:144:PHE:HD1	1.71	0.43
1:E:1315:LEU:HB3	1:E:1320:ASN:ND2	2.31	0.43
1:E:1315:LEU:HD13	1:E:1320:ASN:ND2	2.33	0.43
1:A:1315:LEU:HB3	1:A:1320:ASN:ND2	2.31	0.43
1:D:848:ALA:O	1:D:849:ILE:C	2.54	0.43
2:G:266:THR:HG23	2:G:270:LYS:NZ	2.33	0.43
1:A:858:MET:HA	4:A:2474:FMN:C5A	2.48	0.43
2:K:266:THR:HG23	2:K:270:LYS:NZ	2.33	0.43
1:E:81:ILE:HD13	1:F:216:PHE:CZ	2.53	0.43
1:A:687:MET:HA	1:A:688:PRO:HD3	1.83	0.43
1:B:8:ALA:HA	1:B:362:LEU:HD12	2.00	0.43
1:D:440:SER:O	1:D:441:ASP:OD1	2.36	0.43
1:D:364:ILE:HD12	1:D:374:ILE:HD11	2.00	0.43
1:F:440:SER:O	1:F:441:ASP:OD1	2.36	0.43
1:B:1043:LEU:HD23	1:B:1047:MET:HE3	1.99	0.43
1:C:1425:LYS:HD2	1:C:1447:TRP:CD2	2.54	0.43
2:J:297:GLY:O	2:J:327:MET:HE3	2.18	0.43
2:I:110:ILE:HD11	2:I:118:VAL:CA	2.48	0.43
1:D:783:LYS:HD3	2:H:57:VAL:HG13	0.93	0.43
2:G:51:GLY:O	2:G:52:VAL:HG23	2.16	0.43
1:E:1395:TYR:CE2	1:E:1443:ILE:CD1	3.01	0.43
1:E:246:ALA:C	1:E:248:GLU:N	2.70	0.43
1:B:677:GLU:OE2	1:B:681:ARG:NH1	2.52	0.43
2:G:173:VAL:CG2	2:G:174:HIS:N	2.81	0.43
2:G:94:CYS:SG	2:G:450:VAL:HG22	2.59	0.43
1:E:1113:CYS:HB3	1:E:1119:VAL:CG1	2.49	0.43
1:E:1113:CYS:C	1:E:1115:VAL:N	2.71	0.43
1:C:1349:ARG:NH1	1:C:1367:TYR:O	2.52	0.43
1:C:515:ARG:H	1:C:515:ARG:HG3	1.52	0.43
2:J:264:TYR:CE1	2:J:311:GLN:NE2	2.87	0.43
2:J:28:PHE:HZ	2:J:285:LEU:HD21	1.84	0.43
1:A:515:ARG:HG3	1:A:515:ARG:H	1.52	0.43
2:K:60:PRO:O	2:K:455:ARG:HD3	2.18	0.43
2:I:175:VAL:HG13	2:I:175:VAL:O	2.18	0.43
2:J:229:LEU:HD22	2:J:236:VAL:HG12	2.00	0.43
2:J:306:ARG:NH1	2:J:336:HIS:HB2	2.34	0.43
2:J:240:THR:HG23	2:J:443:ILE:HG21	2.01	0.43
2:J:94:CYS:SG	2:J:450:VAL:HG22	2.59	0.43
1:B:290:THR:HG22	1:B:292:PRO:CD	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:165:GLU:HB3	2:L:169:LYS:HZ2	1.82	0.43
2:L:240:THR:HG23	2:L:443:ILE:HG21	2.01	0.43
1:D:293:MET:HG2	1:D:410:LEU:HD23	2.00	0.43
2:L:28:PHE:CD1	2:L:28:PHE:N	2.84	0.43
2:L:304:CYS:CA	2:L:307:THR:HG22	2.48	0.43
2:H:215:HIS:HD2	2:H:218:PHE:HD1	1.65	0.43
2:H:60:PRO:O	2:H:455:ARG:HD3	2.18	0.43
2:H:94:CYS:SG	2:H:450:VAL:HG22	2.59	0.43
2:J:178:ARG:HH12	2:J:243:TYR:HB2	1.83	0.43
2:G:178:ARG:HH12	2:G:243:TYR:HB2	1.83	0.43
1:C:983:LEU:HD22	1:C:987:LEU:HG	2.01	0.43
1:D:957:ARG:HD2	1:D:965:LEU:CD1	2.48	0.43
1:B:251:MET:CE	1:B:533:LEU:HD11	2.49	0.43
1:C:559:ARG:HD2	1:C:605:ILE:CD1	2.48	0.43
1:C:1022:LEU:HA	1:C:1068:ARG:O	2.19	0.43
1:B:219:TRP:N	1:B:220:PRO:CD	2.81	0.43
1:A:420:VAL:CG1	1:A:421:GLN:N	2.81	0.43
1:C:419:TRP:CE2	1:C:537:GLU:HB3	2.53	0.43
1:E:316:LEU:O	1:E:319:TYR:N	2.50	0.43
1:E:1131:THR:HG22	1:E:1133:GLU:H	1.81	0.43
1:A:572:THR:CG2	1:A:615:ARG:HE	2.32	0.43
1:D:353:MET:HA	1:D:353:MET:HE2	2.00	0.43
1:D:622:LEU:HD13	1:D:739:PHE:HZ	1.82	0.43
1:D:739:PHE:O	1:D:740:PRO:C	2.55	0.43
1:B:312:ASN:HB2	1:B:411:ALA:CB	2.46	0.43
1:F:120:LYS:HA	1:F:120:LYS:HE2	2.00	0.43
1:E:1354:THR:HG23	1:E:1372:THR:HB	2.01	0.43
1:C:1026:ASN:ND2	1:C:1027:SER:N	2.66	0.43
1:F:632:ILE:HD12	1:F:632:ILE:HG23	1.66	0.43
1:A:498:PHE:H	1:A:498:PHE:HD1	1.64	0.43
1:A:1161:VAL:O	1:A:1161:VAL:HG13	2.18	0.43
1:B:208:HIS:C	1:B:208:HIS:CD2	2.92	0.43
1:A:1465:ARG:HE	1:A:1465:ARG:HB3	1.62	0.43
1:F:208:HIS:C	1:F:208:HIS:CD2	2.92	0.43
1:E:442:MET:CE	1:E:447:LEU:N	2.81	0.43
1:E:780:ARG:NH2	2:L:54:PHE:HD1	2.17	0.43
1:A:896:PRO:HB2	1:C:1226:GLY:CA	2.49	0.43
1:A:216:PHE:HA	1:A:217:PRO:HD3	1.73	0.43
1:A:1226:GLY:CA	1:E:896:PRO:HB2	2.49	0.43
1:A:1267:ARG:H	1:A:1267:ARG:HG2	1.71	0.43
1:F:1222:LEU:N	1:F:1229:MET:HE2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:896:PRO:HB2	1:E:1226:GLY:C	2.39	0.43
1:A:1394:VAL:CG1	1:A:1401:LEU:HD23	2.49	0.43
2:L:302:MET:CE	2:L:334:VAL:CA	2.95	0.43
2:L:388:PHE:CD2	2:L:390:VAL:CG1	2.95	0.43
2:J:317:LYS:CE	2:J:345:ILE:CG1	2.95	0.43
1:B:1105:VAL:HG23	2:G:54:PHE:CD1	2.54	0.43
2:K:324:ARG:HH11	2:K:324:ARG:CB	2.32	0.43
1:F:550:LEU:HD13	1:F:555:PHE:HA	2.01	0.43
1:E:248:GLU:CA	1:E:251:MET:HG2	2.31	0.43
1:F:677:GLU:OE2	1:F:681:ARG:NH1	2.52	0.43
1:D:677:GLU:OE2	1:D:681:ARG:NH1	2.52	0.43
1:D:764:THR:O	1:D:764:THR:CG2	2.63	0.43
2:G:229:LEU:HD22	2:G:236:VAL:HG12	2.00	0.43
2:G:93:ILE:HG23	2:G:94:CYS:N	2.33	0.43
1:C:56:LYS:CG	1:C:71:LEU:HD22	2.49	0.43
1:E:56:LYS:CG	1:E:71:LEU:HD22	2.49	0.43
2:J:181:ARG:NH2	2:J:188:TYR:CD1	2.86	0.43
2:I:350:PRO:HD2	2:I:374:ALA:CB	2.49	0.43
2:K:31:ILE:HD11	2:K:194:LYS:HG2	2.00	0.43
2:K:92:GLU:HG3	2:K:203:ARG:NH1	2.34	0.43
2:H:295:LEU:HD21	2:H:319:LEU:HD13	1.99	0.43
2:H:324:ARG:HH11	2:H:324:ARG:CB	2.32	0.43
2:I:162:ALA:HB3	2:I:237:LEU:CD1	2.49	0.43
2:I:29:ALA:O	2:I:193:PHE:HB2	2.19	0.43
2:I:430:LYS:HE3	2:I:439:ALA:O	2.18	0.43
2:I:64:ASN:CG	2:I:67:ASP:HB2	2.38	0.43
2:J:137:VAL:CG1	2:J:138:LYS:N	2.82	0.43
2:J:146:LEU:CD2	2:J:146:LEU:N	2.81	0.43
2:J:201:GLU:HA	2:J:204:VAL:CG1	2.49	0.43
2:J:29:ALA:O	2:J:193:PHE:HB2	2.19	0.43
1:C:143:GLN:NE2	1:C:143:GLN:CA	2.78	0.43
2:L:29:ALA:O	2:L:193:PHE:HB2	2.19	0.43
2:L:207:LEU:HD12	2:L:212:VAL:CG1	2.49	0.43
2:L:137:VAL:HG13	2:L:209:ASP:CG	2.39	0.43
2:L:153:ILE:CG1	2:L:220:VAL:HG22	2.49	0.43
2:L:237:LEU:C	2:L:237:LEU:HD22	2.39	0.43
2:L:94:CYS:SG	2:L:450:VAL:HG22	2.59	0.43
2:L:181:ARG:NH2	2:L:188:TYR:CD1	2.86	0.43
2:H:68:TRP:CH2	2:H:124:GLU:OE1	2.72	0.43
2:H:137:VAL:CG1	2:H:138:LYS:N	2.82	0.43
2:H:306:ARG:NH1	2:H:336:HIS:HB2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:31:ILE:HG12	2:H:193:PHE:CD1	2.54	0.43
2:H:449:LEU:HD23	2:H:452:TRP:H	1.83	0.43
1:D:409:HIS:O	1:D:413:LEU:HD23	2.18	0.43
1:B:409:HIS:O	1:B:413:LEU:HD23	2.18	0.43
1:A:345:MET:HE2	1:A:385:LEU:HB2	1.96	0.43
1:F:420:VAL:HA	1:F:540:THR:HG21	2.00	0.43
1:E:983:LEU:HD22	1:E:987:LEU:HG	2.01	0.43
1:E:303:LEU:HD11	1:E:314:LYS:HG2	2.01	0.43
1:B:403:ASP:OD1	1:B:407:LYS:HG3	2.18	0.43
1:F:1458:VAL:HA	1:F:1459:PRO:HD3	1.90	0.43
1:C:218:THR:CG2	1:C:221:LEU:HG	2.44	0.43
1:C:16:SER:O	1:C:20:LYS:CG	2.66	0.43
2:G:197:LYS:CB	2:G:273:LEU:HG	2.48	0.43
1:A:463:LEU:HA	1:A:463:LEU:HD23	1.48	0.43
1:E:911:ALA:O	1:E:912:SER:C	2.57	0.43
1:D:511:ILE:HG22	1:D:512:ASP:H	1.79	0.43
1:F:511:ILE:CG2	1:F:512:ASP:N	2.74	0.43
1:B:643:ASN:HD22	1:B:665:THR:HG21	1.83	0.43
1:F:739:PHE:O	1:F:740:PRO:C	2.55	0.43
1:D:1427:LEU:O	1:D:1428:ILE:C	2.56	0.43
1:D:1058:LEU:HD23	1:D:1058:LEU:HA	1.63	0.43
1:E:990:ILE:O	1:E:990:ILE:HG13	2.19	0.43
1:E:358:THR:CB	1:E:360:ASP:OD1	2.65	0.43
1:A:575:VAL:HG13	1:A:759:LEU:CD2	2.48	0.43
1:A:1315:LEU:HA	1:A:1315:LEU:HD23	1.62	0.43
1:B:606:LEU:HD23	1:B:606:LEU:HA	1.78	0.43
1:B:1244:THR:OG1	1:B:1278:ALA:HB3	2.18	0.43
1:C:256:PHE:O	1:C:257:GLY:C	2.56	0.43
1:D:552:THR:HG22	1:D:552:THR:O	2.19	0.43
1:E:46:ILE:HG12	1:E:48:VAL:HG13	2.01	0.43
1:F:1374:VAL:HG12	1:F:1375:ILE:N	2.32	0.43
1:F:364:ILE:HD12	1:F:374:ILE:HD11	2.00	0.43
2:J:50:CYS:SG	2:J:109:VAL:HG21	2.58	0.43
2:L:54:PHE:HB2	2:L:107:ASN:O	2.18	0.43
1:F:897:ASP:OD1	1:F:899:ASN:N	2.52	0.43
1:A:1228:LYS:C	1:A:1229:MET:HG2	2.39	0.43
1:F:780:ARG:HH21	2:I:54:PHE:HE1	1.59	0.43
2:I:50:CYS:SG	2:I:109:VAL:HG21	2.58	0.43
2:H:50:CYS:SG	2:H:109:VAL:HG21	2.58	0.43
1:A:708:MET:HE2	1:A:708:MET:HB2	1.74	0.43
1:E:1444:LEU:HD23	1:E:1444:LEU:HA	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:290:LYS:HD3	2:K:393:ASP:CG	2.38	0.43
1:C:636:LEU:O	1:C:638:THR:N	2.51	0.43
1:C:551:THR:H	1:C:554:GLU:CG	2.32	0.43
1:F:466:HIS:CE1	1:F:684:PHE:HE1	2.33	0.43
1:E:1139:PHE:CD1	1:E:1139:PHE:N	2.86	0.43
2:G:207:LEU:HD12	2:G:212:VAL:CG1	2.49	0.43
2:G:215:HIS:CD2	2:G:218:PHE:HD1	2.35	0.43
2:G:89:ASN:HD22	2:G:89:ASN:N	2.17	0.43
1:A:56:LYS:CG	1:A:71:LEU:HD22	2.49	0.43
1:E:1349:ARG:NH1	1:E:1367:TYR:O	2.52	0.43
1:A:1349:ARG:NH1	1:A:1367:TYR:O	2.52	0.43
2:K:201:GLU:HA	2:K:204:VAL:CG1	2.49	0.43
2:K:132:TRP:CG	2:K:202:ARG:HD2	2.52	0.43
2:G:188:TYR:OH	2:G:262:LEU:HD23	2.18	0.43
2:H:181:ARG:NH2	2:H:188:TYR:CD1	2.86	0.43
2:I:462:GLU:O	2:I:465:HIS:HB3	2.18	0.43
2:J:92:GLU:HG3	2:J:203:ARG:NH1	2.34	0.43
1:A:1212:ASP:OD2	1:A:1243:GLY:CA	2.67	0.43
2:G:324:ARG:CB	2:G:324:ARG:HH11	2.32	0.43
2:G:317:LYS:CE	2:G:345:ILE:CG1	2.95	0.43
2:G:281:GLU:HG3	2:G:281:GLU:O	2.17	0.43
2:L:163:ALA:HB3	2:L:207:LEU:HD21	2.00	0.43
2:H:423:LEU:CD2	2:H:423:LEU:N	2.80	0.43
2:H:80:ALA:HB3	2:H:127:ILE:HD11	1.96	0.43
1:B:1230:GLN:HB2	1:D:877:ARG:CD	2.48	0.43
2:I:371:VAL:CG2	2:I:386:SER:CB	2.94	0.43
2:I:178:ARG:HH12	2:I:243:TYR:HB2	1.83	0.43
1:C:329:GLY:O	1:C:330:PRO:C	2.56	0.43
1:E:345:MET:HE1	1:E:385:LEU:HB2	2.00	0.43
1:F:1050:SER:O	1:F:1051:GLU:O	2.36	0.43
1:A:309:THR:HB	1:A:314:LYS:HE3	2.00	0.43
1:D:850:ARG:NH1	1:D:878:ILE:HB	2.33	0.43
1:B:1011:ALA:O	1:B:1014:ALA:N	2.52	0.43
1:C:1351:SER:OG	1:C:1369:THR:HB	2.18	0.43
1:E:559:ARG:HD2	1:E:605:ILE:CD1	2.48	0.43
1:C:949:VAL:O	1:C:950:THR:O	2.37	0.43
1:B:562:MET:CE	1:B:605:ILE:HD11	2.49	0.43
1:E:572:THR:CG2	1:E:615:ARG:HE	2.32	0.43
1:C:572:THR:CG2	1:C:615:ARG:HE	2.32	0.43
1:E:991:ASN:HA	1:E:992:PRO:HD2	1.84	0.43
1:A:1420:TYR:OH	1:A:1466:LEU:CD2	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:302:ALA:CA	1:A:347:ARG:NH1	2.81	0.43
1:F:970:PRO:O	1:F:970:PRO:HG2	2.19	0.43
1:E:1348:VAL:O	1:E:1348:VAL:CG1	2.65	0.43
1:B:120:LYS:HE2	1:B:120:LYS:HA	2.00	0.43
1:C:611:MET:HE3	1:C:611:MET:HB3	1.82	0.43
1:E:120:LYS:O	1:E:123:ALA:HB3	2.18	0.43
1:C:1011:ALA:O	1:C:1014:ALA:N	2.52	0.43
1:E:1011:ALA:O	1:E:1014:ALA:N	2.52	0.43
1:A:228:LEU:HD12	1:A:228:LEU:HA	1.29	0.43
1:C:1264:ILE:HG22	1:C:1283:GLY:O	2.19	0.43
1:C:1159:ASN:O	1:C:1161:VAL:N	2.51	0.43
1:D:165:ASN:O	1:D:166:ASP:CB	2.65	0.43
1:B:943:GLN:HE21	1:B:1033:SER:HA	1.83	0.43
1:B:552:THR:O	1:B:552:THR:HG22	2.19	0.43
1:A:261:GLN:HE21	1:A:264:LYS:HD2	1.83	0.43
1:A:442:MET:HE1	1:A:447:LEU:CA	2.48	0.43
1:A:784:SER:HB3	1:A:785:GLY:H	1.66	0.43
1:A:896:PRO:HB2	1:C:1226:GLY:C	2.39	0.43
2:K:50:CYS:SG	2:K:109:VAL:HG21	2.58	0.43
1:A:1425:LYS:CD	1:A:1447:TRP:CD1	3.02	0.43
2:L:324:ARG:HH11	2:L:324:ARG:CB	2.32	0.43
1:C:1425:LYS:CD	1:C:1447:TRP:CD1	3.02	0.43
2:J:322:ARG:CD	2:J:349:ALA:CB	2.94	0.43
1:B:783:LYS:HD3	2:G:57:VAL:HG13	0.93	0.43
2:G:109:VAL:HG22	2:G:109:VAL:H	1.50	0.43
1:E:250:ARG:HH21	1:E:639:PHE:HE1	1.63	0.43
1:E:636:LEU:O	1:E:638:THR:N	2.51	0.43
1:C:1139:PHE:HD1	1:C:1139:PHE:N	2.15	0.43
1:E:551:THR:H	1:E:554:GLU:CG	2.32	0.43
2:H:264:TYR:CE1	2:H:311:GLN:NE2	2.87	0.43
2:G:29:ALA:O	2:G:193:PHE:HB2	2.19	0.43
2:G:241:GLY:O	2:G:443:ILE:HG22	2.19	0.43
1:C:746:ILE:CG2	1:C:747:SER:N	2.76	0.43
2:K:68:TRP:CH2	2:K:124:GLU:OE1	2.72	0.43
2:K:162:ALA:HB3	2:K:237:LEU:CD1	2.49	0.43
2:K:240:THR:OG1	8:K:484:FAD:N7A	2.50	0.43
1:E:842:GLU:OE1	1:E:1156:ARG:NH1	2.52	0.43
2:I:137:VAL:CG1	2:I:138:LYS:N	2.82	0.43
2:I:146:LEU:CD2	2:I:146:LEU:N	2.81	0.43
2:I:306:ARG:NH1	2:I:336:HIS:HB2	2.34	0.43
2:I:449:LEU:HD22	2:I:452:TRP:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:237:LEU:HD22	2:J:237:LEU:C	2.39	0.43
2:J:69:LEU:HA	2:J:72:THR:HG22	2.00	0.43
1:C:1108:CYS:SG	6:C:2476:F3S:S4	2.94	0.43
1:C:1212:ASP:OD2	1:C:1243:GLY:CA	2.67	0.43
2:L:32:TYR:CE2	2:L:194:LYS:CA	3.02	0.43
2:L:93:ILE:HG23	2:L:94:CYS:N	2.33	0.43
2:L:281:GLU:HG3	2:L:281:GLU:O	2.17	0.43
2:H:71:LEU:HD22	2:H:74:GLU:HG3	2.01	0.43
1:F:30:HIS:HD2	1:F:31:ARG:H	1.65	0.43
1:B:30:HIS:CD2	1:B:31:ARG:N	2.86	0.43
1:D:390:MET:HG3	1:D:406:LEU:CD2	2.48	0.43
1:A:303:LEU:HD11	1:A:314:LYS:HG2	2.01	0.43
1:B:1062:ARG:HH11	1:B:1062:ARG:HD3	1.40	0.43
1:A:562:MET:HE1	1:A:605:ILE:HD11	2.01	0.43
1:F:574:PRO:HG2	1:F:574:PRO:O	2.19	0.43
2:H:197:LYS:CB	2:H:273:LEU:HG	2.48	0.43
1:A:454:PHE:N	1:A:454:PHE:CD1	2.81	0.43
1:A:911:ALA:O	1:A:912:SER:C	2.57	0.43
1:D:754:ILE:HG22	1:D:755:GLN:N	2.34	0.43
1:D:458:MET:O	1:D:461:MET:N	2.50	0.43
1:B:824:GLN:O	1:B:827:ASP:CB	2.58	0.43
1:E:191:PHE:CD1	1:E:191:PHE:O	2.72	0.43
1:F:890:ASP:HA	1:F:891:PRO:HD3	1.65	0.43
1:A:979:ASP:O	1:A:980:LEU:C	2.55	0.43
1:A:1276:LEU:HD12	1:A:1276:LEU:C	2.36	0.43
1:A:1011:ALA:O	1:A:1014:ALA:N	2.52	0.43
1:A:1360:CYS:O	1:A:1361:GLY:O	2.35	0.43
1:A:485:ILE:HG21	1:A:485:ILE:HD13	1.72	0.43
1:E:1264:ILE:HG22	1:E:1283:GLY:O	2.19	0.43
1:E:417:ASP:O	1:E:418:LYS:C	2.52	0.43
1:E:819:LYS:HA	1:E:819:LYS:HD3	1.73	0.43
1:C:944:LEU:HA	1:C:944:LEU:HD12	1.72	0.43
1:F:552:THR:HG22	1:F:552:THR:O	2.19	0.43
1:B:1085:LEU:HD23	1:B:1085:LEU:HA	1.65	0.43
1:C:545:LEU:HA	1:C:545:LEU:HD23	1.19	0.43
1:E:1158:LEU:HD12	1:E:1158:LEU:HA	1.61	0.43
1:E:1173:ARG:HH22	1:E:1178:LEU:HD23	1.83	0.43
1:E:1468:VAL:HG12	1:E:1468:VAL:O	2.15	0.43
1:B:986:ASP:O	1:B:987:LEU:C	2.56	0.43
1:C:491:LYS:HZ1	1:C:785:GLY:HA3	1.84	0.43
1:B:1424:LEU:C	1:B:1424:LEU:HD23	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:81:ILE:CG2	1:F:81:ILE:O	2.67	0.43
2:J:324:ARG:HH11	2:J:324:ARG:CB	2.32	0.43
2:I:109:VAL:HG22	2:I:109:VAL:H	1.50	0.43
2:K:317:LYS:CE	2:K:345:ILE:CD1	2.94	0.43
1:C:244:MET:HE3	1:C:244:MET:HB2	1.56	0.43
1:B:555:PHE:CD1	1:B:556:ARG:N	2.77	0.43
1:D:743:VAL:HG11	1:D:745:ARG:HG3	2.00	0.43
2:G:166:LEU:HD22	2:G:169:LYS:HE2	1.99	0.43
2:G:32:TYR:CE2	2:G:194:LYS:CA	3.02	0.43
2:G:240:THR:HG23	2:G:443:ILE:HG21	2.01	0.43
2:G:430:LYS:CE	2:G:456:ASP:HB3	2.43	0.43
2:G:469:LYS:HZ3	2:G:476:VAL:CA	2.27	0.43
2:J:181:ARG:C	2:J:182:MET:HE3	2.38	0.43
2:I:324:ARG:HH11	2:I:324:ARG:CB	2.32	0.43
1:A:1349:ARG:HG2	1:A:1349:ARG:NH1	2.31	0.43
2:K:207:LEU:HD12	2:K:212:VAL:CG1	2.49	0.43
2:K:241:GLY:O	2:K:443:ILE:HG22	2.19	0.43
2:K:32:TYR:HB3	2:K:34:ARG:HG2	2.01	0.43
2:K:306:ARG:NH1	2:K:336:HIS:HB2	2.34	0.43
2:K:447:ALA:HB1	2:K:452:TRP:CD2	2.50	0.43
2:K:71:LEU:HD22	2:K:74:GLU:HG3	2.01	0.43
2:H:350:PRO:HD2	2:H:374:ALA:CB	2.49	0.43
2:I:201:GLU:HA	2:I:204:VAL:CG1	2.49	0.43
2:I:132:TRP:CG	2:I:202:ARG:HD2	2.52	0.43
2:G:350:PRO:HD2	2:G:374:ALA:CB	2.49	0.43
2:L:31:ILE:HG12	2:L:193:PHE:CD1	2.54	0.43
2:L:306:ARG:HD3	2:L:336:HIS:CB	2.45	0.43
2:L:64:ASN:CG	2:L:67:ASP:HB2	2.39	0.43
2:L:69:LEU:HA	2:L:72:THR:HG22	2.00	0.43
2:L:264:TYR:CE1	2:L:311:GLN:NE2	2.87	0.43
2:H:32:TYR:HB3	2:H:34:ARG:HG2	2.01	0.43
2:H:415:LEU:CD2	2:H:416:LYS:N	2.82	0.43
2:H:93:ILE:HD11	2:H:195:LEU:CD2	2.30	0.43
1:C:1156:ARG:O	1:C:1157:SER:HB3	2.18	0.43
1:B:1366:GLU:OE2	1:B:1367:TYR:CE2	2.71	0.43
1:F:913:GLY:CA	1:F:1349:ARG:CD	2.94	0.43
1:F:244:MET:O	1:F:245:LYS:C	2.57	0.43
1:A:842:GLU:OE1	1:A:1156:ARG:NH1	2.52	0.43
1:F:342:VAL:HG11	1:F:390:MET:HE2	2.01	0.43
1:F:390:MET:HG3	1:F:406:LEU:CD2	2.48	0.43
2:L:406:LEU:CD2	2:L:406:LEU:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:405:ASP:OD1	2:L:407:PRO:HD2	2.18	0.43
1:D:1317:THR:HG22	1:D:1318:ASN:CA	2.46	0.43
1:E:214:ASN:O	1:E:1015:LYS:CE	2.53	0.43
1:D:402:ARG:HH11	1:D:402:ARG:HD3	1.69	0.43
1:F:963:VAL:CG1	1:F:964:MET:H	2.25	0.43
1:F:964:MET:O	1:F:965:LEU:HD23	2.18	0.43
1:D:702:ASP:O	1:D:703:GLY:C	2.55	0.43
1:E:560:ASP:C	1:E:562:MET:N	2.70	0.43
1:F:533:LEU:HD23	1:F:533:LEU:HA	1.43	0.43
1:D:562:MET:CE	1:D:605:ILE:HD11	2.49	0.43
1:C:828:LEU:HD22	1:C:1172:SER:CB	2.38	0.43
1:F:843:VAL:HG11	1:F:1147:ARG:HB3	2.00	0.43
1:E:420:VAL:CG1	1:E:421:GLN:N	2.81	0.43
1:A:78:LEU:HB3	1:A:79:PRO:HD2	2.00	0.43
1:A:903:TRP:N	1:A:903:TRP:CD1	2.86	0.43
1:A:831:LEU:HD13	1:A:1084:MET:HE3	2.00	0.43
1:F:1155:PHE:CZ	1:F:1167:LEU:HD21	2.54	0.43
1:C:1276:LEU:HD12	1:C:1276:LEU:C	2.36	0.43
1:D:978:GLU:H	1:D:978:GLU:HG2	1.21	0.43
1:D:1336:LEU:HD23	1:D:1355:VAL:CG1	2.48	0.43
1:E:97:ILE:HA	1:E:151:ILE:HD13	2.01	0.43
1:E:770:VAL:O	1:E:770:VAL:HG12	2.19	0.43
1:C:1141:PHE:O	1:C:1142:LEU:C	2.55	0.43
1:D:897:ASP:OD1	1:D:899:ASN:N	2.52	0.42
1:C:1228:LYS:C	1:C:1229:MET:HG2	2.39	0.42
1:D:216:PHE:HA	1:D:217:PRO:HD3	1.76	0.42
1:D:81:ILE:CG2	1:D:81:ILE:O	2.67	0.42
2:L:295:LEU:HD21	2:L:319:LEU:HD13	1.99	0.42
1:C:1394:VAL:CG1	1:C:1401:LEU:HD23	2.49	0.42
2:J:367:ILE:O	2:J:390:VAL:HG23	2.20	0.42
1:D:777:GLY:C	2:H:52:VAL:HG11	2.39	0.42
1:A:510:PRO:CD	1:A:970:PRO:HB3	2.37	0.42
1:A:509:PRO:HB3	1:A:975:TYR:CD1	2.53	0.42
1:E:1339:ALA:HB2	1:E:1435:THR:OG1	2.19	0.42
2:K:322:ARG:CD	2:K:349:ALA:CA	2.98	0.42
2:K:350:PRO:HD2	2:K:374:ALA:CB	2.49	0.42
1:D:550:LEU:HD13	1:D:555:PHE:HA	2.01	0.42
1:B:763:ALA:C	1:B:765:ALA:N	2.72	0.42
1:A:1139:PHE:N	1:A:1139:PHE:HD1	2.15	0.42
2:G:200:VAL:HA	2:G:203:ARG:HD2	1.97	0.42
2:K:292:VAL:HG21	2:K:394:LEU:HD13	1.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:29:ALA:O	2:K:193:PHE:HB2	2.19	0.42
2:K:32:TYR:CE2	2:K:194:LYS:CA	3.02	0.42
2:K:94:CYS:SG	2:K:450:VAL:HG22	2.59	0.42
2:I:32:TYR:CE2	2:I:194:LYS:CA	3.02	0.42
2:I:415:LEU:CD2	2:I:416:LYS:N	2.82	0.42
2:I:454:ILE:CD1	2:I:458:ARG:HG2	2.48	0.42
2:I:469:LYS:HZ2	2:I:476:VAL:HB	1.82	0.42
2:I:59:CYS:SG	2:I:61:VAL:CG1	3.05	0.42
2:I:68:TRP:CH2	2:I:124:GLU:OE1	2.72	0.42
2:J:32:TYR:HB3	2:J:34:ARG:HG2	2.01	0.42
2:L:195:LEU:HD12	2:L:196:GLU:O	2.19	0.42
2:L:89:ASN:N	2:L:89:ASN:HD22	2.17	0.42
2:H:153:ILE:CG1	2:H:220:VAL:HG22	2.49	0.42
2:H:195:LEU:HD12	2:H:196:GLU:O	2.19	0.42
2:H:29:ALA:O	2:H:193:PHE:HB2	2.19	0.42
2:H:306:ARG:HD3	2:H:336:HIS:CB	2.45	0.42
2:H:71:LEU:CD1	2:H:80:ALA:N	2.81	0.42
1:D:244:MET:O	1:D:245:LYS:C	2.57	0.42
1:D:1132:PRO:O	1:D:1133:GLU:C	2.56	0.42
1:B:1050:SER:O	1:B:1051:GLU:O	2.36	0.42
1:F:700:ILE:C	1:F:703:GLY:H	2.22	0.42
1:D:251:MET:CE	1:D:533:LEU:HD11	2.49	0.42
1:B:574:PRO:O	1:B:574:PRO:HG2	2.19	0.42
1:B:558:MET:C	1:B:560:ASP:H	2.23	0.42
1:A:602:THR:C	1:A:640:THR:HG22	2.38	0.42
1:E:438:GLU:OE1	1:E:553:ALA:HB2	2.18	0.42
1:E:591:GLN:O	1:E:594:GLU:N	2.52	0.42
1:E:903:TRP:N	1:E:903:TRP:CD1	2.86	0.42
1:F:666:VAL:HG13	1:F:667:ASN:N	2.34	0.42
1:D:511:ILE:HG21	1:D:511:ILE:HD13	1.76	0.42
1:E:985:TYR:CD1	1:E:1207:VAL:HG11	2.54	0.42
1:C:1468:VAL:HG12	1:C:1469:PRO:O	2.19	0.42
1:B:609:GLU:C	1:B:611:MET:H	2.22	0.42
1:B:885:GLY:O	1:B:887:GLY:N	2.52	0.42
1:B:228:LEU:HD12	1:B:228:LEU:HA	1.88	0.42
1:E:1026:ASN:ND2	1:E:1027:SER:N	2.66	0.42
1:B:612:GLY:O	1:B:762:HIS:HE1	1.99	0.42
1:C:121:ALA:C	1:C:123:ALA:N	2.73	0.42
1:F:547:SER:C	1:F:549:VAL:H	2.21	0.42
1:A:802:VAL:HG22	1:A:802:VAL:H	1.50	0.42
1:C:1159:ASN:C	1:C:1161:VAL:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:ASN:O	1:B:166:ASP:CB	2.65	0.42
1:F:1032:ALA:O	1:F:1033:SER:HB2	2.19	0.42
1:B:1032:ALA:O	1:B:1033:SER:HB2	2.19	0.42
1:E:1468:VAL:HG12	1:E:1469:PRO:O	2.19	0.42
1:E:869:GLY:O	1:E:870:THR:C	2.54	0.42
1:B:206:ILE:HD13	1:B:206:ILE:HG21	1.76	0.42
1:E:1109:HIS:ND1	1:E:1109:HIS:N	2.45	0.42
1:C:46:ILE:HG12	1:C:48:VAL:HG13	2.01	0.42
2:L:50:CYS:SG	2:L:109:VAL:HG21	2.58	0.42
2:L:109:VAL:H	2:L:109:VAL:HG22	1.50	0.42
1:C:452:GLN:CG	1:C:764:THR:HG22	2.48	0.42
2:K:110:ILE:HD11	2:K:118:VAL:CA	2.48	0.42
2:J:317:LYS:HE3	2:J:345:ILE:HG13	2.00	0.42
1:F:1105:VAL:HG23	2:I:54:PHE:CD1	2.54	0.42
1:B:777:GLY:C	2:G:52:VAL:HG11	2.39	0.42
2:K:367:ILE:O	2:K:390:VAL:HG23	2.19	0.42
1:A:246:ALA:C	1:A:248:GLU:N	2.70	0.42
1:A:629:THR:O	1:A:631:LEU:N	2.53	0.42
1:D:442:MET:HB2	1:D:673:GLU:HG2	2.01	0.42
2:G:153:ILE:CG1	2:G:220:VAL:HG22	2.49	0.42
2:G:201:GLU:HA	2:G:204:VAL:CG1	2.49	0.42
2:K:264:TYR:CE1	2:K:311:GLN:NE2	2.87	0.42
1:E:59:VAL:HG22	1:E:105:TYR:CD2	2.25	0.42
2:K:229:LEU:HD22	2:K:236:VAL:HG12	2.00	0.42
2:K:415:LEU:CD2	2:K:416:LYS:N	2.82	0.42
2:K:64:ASN:C	2:K:66:PRO:HD2	2.40	0.42
2:I:71:LEU:HD22	2:I:74:GLU:HG3	2.01	0.42
1:A:1245:ARG:O	1:A:1246:LEU:C	2.55	0.42
2:L:137:VAL:CG1	2:L:138:LYS:N	2.82	0.42
2:L:151:GLY:O	2:L:236:VAL:HA	2.20	0.42
2:L:447:ALA:HB1	2:L:452:TRP:CD2	2.50	0.42
2:L:264:TYR:CE2	2:L:307:THR:CG2	2.94	0.42
2:H:207:LEU:HD12	2:H:212:VAL:CG1	2.49	0.42
2:H:229:LEU:HD22	2:H:236:VAL:HG12	2.00	0.42
2:H:449:LEU:HD22	2:H:452:TRP:CE2	2.53	0.42
2:H:406:LEU:N	2:H:406:LEU:CD2	2.82	0.42
1:B:501:GLN:OE1	1:B:710:LYS:NZ	2.43	0.42
1:C:1458:VAL:HA	1:C:1459:PRO:HD3	1.66	0.42
1:C:330:PRO:HB3	1:C:350:LEU:HB3	2.01	0.42
2:K:406:LEU:CD2	2:K:406:LEU:N	2.82	0.42
1:E:125:ARG:HG3	1:E:219:TRP:CZ2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:358:VAL:CG2	2:H:365:VAL:CG1	2.94	0.42
1:A:295:LYS:CE	1:A:299:VAL:CG1	2.89	0.42
1:C:605:ILE:HA	1:C:643:ASN:O	2.20	0.42
1:E:194:ASP:HB3	1:E:200:PHE:CE1	2.54	0.42
1:D:843:VAL:HG11	1:D:1147:ARG:HB3	2.00	0.42
1:B:1124:LEU:HA	1:B:1124:LEU:HD12	1.30	0.42
1:F:1417:VAL:CG1	1:F:1419:HIS:H	2.28	0.42
1:C:990:ILE:HG13	1:C:990:ILE:O	2.19	0.42
1:E:992:PRO:HA	1:E:1204:ARG:HH22	1.84	0.42
1:C:1420:TYR:OH	1:C:1466:LEU:CD2	2.66	0.42
1:F:1467:GLU:O	1:F:1469:PRO:HD3	2.18	0.42
1:F:756:LYS:O	1:F:757:LYS:C	2.58	0.42
1:C:1354:THR:HG23	1:C:1372:THR:HB	2.01	0.42
1:F:485:ILE:HG21	1:F:485:ILE:HD13	1.68	0.42
1:D:1244:THR:OG1	1:D:1278:ALA:HB3	2.18	0.42
1:E:917:VAL:CG1	1:E:922:LEU:HD21	2.50	0.42
1:E:485:ILE:HG21	1:E:485:ILE:HD13	1.72	0.42
1:A:956:LEU:HA	1:A:956:LEU:HD23	1.70	0.42
1:D:1375:ILE:O	1:D:1377:GLY:N	2.52	0.42
1:D:12:LYS:HA	1:D:13:PRO:HD3	1.75	0.42
1:C:819:LYS:HA	1:C:819:LYS:HD3	1.73	0.42
1:C:666:VAL:HG12	1:C:667:ASN:N	2.34	0.42
1:C:447:LEU:CD1	1:C:451:GLN:CG	2.96	0.42
1:B:743:VAL:HG11	1:B:745:ARG:HG3	2.00	0.42
1:C:896:PRO:HB3	1:E:1226:GLY:C	2.36	0.42
2:L:367:ILE:HD12	2:L:369:LEU:HD11	1.93	0.42
2:L:387:GLU:CG	2:L:388:PHE:N	2.82	0.42
2:J:331:GLN:HA	2:J:334:VAL:HG21	1.98	0.42
1:A:522:LEU:HA	1:A:716:ILE:HG22	2.01	0.42
1:E:1447:TRP:NE1	1:E:1451:VAL:HG21	2.35	0.42
1:E:636:LEU:HD12	1:E:636:LEU:HA	1.61	0.42
1:D:1184:ASN:C	1:D:1186:ARG:N	2.71	0.42
1:A:551:THR:H	1:A:554:GLU:CG	2.32	0.42
2:G:68:TRP:CH2	2:G:124:GLU:OE1	2.72	0.42
2:G:151:GLY:O	2:G:236:VAL:HA	2.19	0.42
2:G:137:VAL:HG13	2:G:209:ASP:CG	2.39	0.42
2:G:32:TYR:HB3	2:G:34:ARG:HG2	2.01	0.42
2:G:64:ASN:C	2:G:66:PRO:HD2	2.40	0.42
2:K:281:GLU:O	2:K:281:GLU:HG3	2.17	0.42
2:K:264:TYR:CE2	2:K:307:THR:CG2	2.94	0.42
1:E:1349:ARG:HG2	1:E:1349:ARG:NH1	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:731:SER:O	1:C:734:LEU:HB3	2.18	0.42
2:I:322:ARG:CD	2:I:349:ALA:CB	2.94	0.42
2:K:89:ASN:HD22	2:K:89:ASN:N	2.17	0.42
2:H:367:ILE:O	2:H:390:VAL:HG23	2.20	0.42
2:I:31:ILE:HG12	2:I:193:PHE:CD1	2.54	0.42
2:I:195:LEU:HD12	2:I:196:GLU:O	2.19	0.42
2:I:449:LEU:HD12	8:I:484:FAD:O2	2.20	0.42
2:J:415:LEU:CD2	2:J:416:LYS:N	2.82	0.42
2:J:465:HIS:NE2	2:J:469:LYS:CE	2.83	0.42
2:J:60:PRO:O	2:J:455:ARG:HD3	2.18	0.42
2:G:302:MET:CE	2:G:334:VAL:CA	2.95	0.42
2:G:322:ARG:CD	2:G:349:ALA:CA	2.98	0.42
1:C:1113:CYS:HB3	1:C:1119:VAL:CG1	2.49	0.42
2:L:162:ALA:HB3	2:L:237:LEU:CD1	2.49	0.42
2:L:71:LEU:CD1	2:L:80:ALA:N	2.81	0.42
2:H:132:TRP:CG	2:H:202:ARG:HD2	2.52	0.42
2:H:137:VAL:HG13	2:H:209:ASP:CG	2.39	0.42
2:H:465:HIS:NE2	2:H:469:LYS:CE	2.83	0.42
1:C:842:GLU:OE1	1:C:1156:ARG:NH1	2.52	0.42
1:E:1458:VAL:CG1	1:E:1459:PRO:CD	2.97	0.42
1:F:1366:GLU:OE2	1:F:1367:TYR:CE2	2.71	0.42
2:I:406:LEU:CD2	2:I:406:LEU:N	2.82	0.42
1:A:1458:VAL:CG1	1:A:1459:PRO:CD	2.97	0.42
2:L:178:ARG:HH12	2:L:243:TYR:HB2	1.83	0.42
1:D:509:PRO:HA	1:D:510:PRO:HD3	1.77	0.42
1:D:505:GLN:HE22	1:D:1001:VAL:N	2.17	0.42
1:B:248:GLU:C	1:B:250:ARG:N	2.73	0.42
1:D:1281:VAL:HA	1:D:1301:SER:O	2.20	0.42
1:F:1281:VAL:HA	1:F:1301:SER:O	2.20	0.42
1:D:574:PRO:HG2	1:D:574:PRO:O	2.19	0.42
1:B:560:ASP:O	1:B:561:TYR:C	2.58	0.42
1:C:280:VAL:O	1:C:281:PHE:C	2.58	0.42
1:C:400:LEU:HD12	1:C:400:LEU:HA	1.76	0.42
1:A:317:ILE:C	1:A:321:ASN:HD22	2.18	0.42
1:A:454:PHE:CD2	1:A:648:GLU:CB	3.00	0.42
1:B:754:ILE:HG22	1:B:755:GLN:N	2.34	0.42
1:A:1047:MET:O	1:A:1048:GLY:C	2.56	0.42
2:I:277:VAL:CG1	2:I:278:GLU:N	2.81	0.42
1:C:985:TYR:CD1	1:C:1207:VAL:HG11	2.54	0.42
1:E:30:HIS:CD2	1:E:30:HIS:N	2.85	0.42
1:F:325:GLU:HA	1:F:326:PRO:HD3	1.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:868:HIS:HB3	1:B:869:GLY:H	1.57	0.42
1:D:116:ILE:HD11	1:D:191:PHE:HB2	2.01	0.42
1:B:62:ILE:O	1:B:62:ILE:CG2	2.68	0.42
1:B:485:ILE:HD13	1:B:485:ILE:HG21	1.68	0.42
1:D:1435:THR:HG23	1:D:1437:SER:N	2.34	0.42
1:F:307:GLN:HE21	1:F:1403:LEU:CD2	2.32	0.42
1:B:770:VAL:CG1	1:B:770:VAL:O	2.67	0.42
2:H:255:LEU:HA	2:H:255:LEU:HD22	1.92	0.42
1:B:637:ARG:HH11	1:B:637:ARG:HD3	1.69	0.42
1:F:1250:VAL:HG13	1:F:1259:LEU:HD12	2.01	0.42
1:B:307:GLN:HE21	1:B:1403:LEU:CD2	2.32	0.42
1:F:51:PRO:HD2	1:F:55:PHE:HD2	1.84	0.42
1:A:780:ARG:NH2	2:J:54:PHE:HD1	2.16	0.42
1:B:1131:THR:O	1:B:1132:PRO:C	2.58	0.42
1:A:1393:TYR:C	1:A:1394:VAL:HG23	2.34	0.42
2:L:322:ARG:CD	2:L:349:ALA:CA	2.98	0.42
2:L:378:GLN:HG2	2:L:378:GLN:O	2.20	0.42
2:J:350:PRO:HD2	2:J:374:ALA:CB	2.49	0.42
1:E:522:LEU:HA	1:E:716:ILE:HG22	2.01	0.42
2:K:378:GLN:HG2	2:K:378:GLN:O	2.20	0.42
1:F:763:ALA:C	1:F:765:ALA:N	2.72	0.42
1:B:442:MET:HB2	1:B:673:GLU:HG2	2.00	0.42
2:H:252:GLY:HA3	2:H:258:ILE:HG21	2.02	0.42
2:K:430:LYS:HB2	2:K:430:LYS:HE3	1.80	0.42
2:K:449:LEU:CD2	2:K:451:VAL:HG13	2.27	0.42
1:E:839:PRO:HG2	1:E:842:GLU:HB2	2.00	0.42
2:H:322:ARG:CD	2:H:349:ALA:CA	2.98	0.42
2:H:181:ARG:CD	2:H:187:VAL:CG1	2.94	0.42
2:I:151:GLY:O	2:I:236:VAL:HA	2.20	0.42
2:I:90:PHE:HZ	2:I:160:LEU:CB	2.33	0.42
2:I:207:LEU:HD12	2:I:212:VAL:CG1	2.49	0.42
2:I:465:HIS:NE2	2:I:469:LYS:CE	2.83	0.42
2:I:71:LEU:CD1	2:I:80:ALA:N	2.81	0.42
2:G:264:TYR:CE1	2:G:311:GLN:NE2	2.87	0.42
2:L:229:LEU:HD22	2:L:236:VAL:HG12	2.00	0.42
2:L:32:TYR:HB3	2:L:34:ARG:HG2	2.01	0.42
2:L:241:GLY:O	2:L:443:ILE:HG22	2.19	0.42
2:L:465:HIS:NE2	2:L:469:LYS:CE	2.83	0.42
2:H:240:THR:HG23	2:H:443:ILE:HG21	2.01	0.42
1:D:242:ASN:C	1:D:244:MET:N	2.72	0.42
1:A:983:LEU:HD22	1:A:987:LEU:HG	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:540:THR:O	1:B:542:LEU:HG	2.20	0.42
1:E:1045:TRP:O	1:E:1046:GLU:C	2.54	0.42
1:B:695:ASN:O	1:B:696:TYR:C	2.57	0.42
1:F:1097:LEU:HA	1:F:1097:LEU:HD23	1.69	0.42
1:B:559:ARG:O	1:B:559:ARG:HG3	2.17	0.42
1:B:559:ARG:O	1:B:559:ARG:NE	2.46	0.42
1:F:562:MET:CE	1:F:605:ILE:HD11	2.49	0.42
2:K:269:ASN:HD22	2:K:273:LEU:HD23	1.85	0.42
1:F:56:LYS:CG	1:F:71:LEU:HD22	2.48	0.42
1:D:1471:HIS:O	1:D:1472:LEU:CB	2.58	0.42
1:A:591:GLN:O	1:A:594:GLU:N	2.52	0.42
1:E:111:PRO:C	1:E:112:ILE:HG23	2.40	0.42
2:G:276:THR:HG22	2:G:277:VAL:N	2.31	0.42
1:B:1155:PHE:CZ	1:B:1167:LEU:HD21	2.54	0.42
1:D:802:VAL:CG2	1:D:1137:ASN:HB2	2.46	0.42
1:B:647:ALA:HB2	1:B:669:TYR:OH	2.19	0.42
1:A:358:THR:CB	1:A:360:ASP:OD1	2.65	0.42
1:F:609:GLU:C	1:F:611:MET:H	2.22	0.42
1:F:885:GLY:O	1:F:887:GLY:N	2.52	0.42
1:F:116:ILE:HD11	1:F:191:PHE:HB2	2.01	0.42
1:A:468:MET:O	1:A:472:GLY:N	2.51	0.42
1:A:133:VAL:HG12	1:A:134:GLY:N	2.34	0.42
1:A:1159:ASN:C	1:A:1161:VAL:H	2.23	0.42
1:B:1375:ILE:O	1:B:1377:GLY:N	2.52	0.42
1:A:869:GLY:O	1:A:870:THR:C	2.54	0.42
1:D:792:GLY:O	1:D:793:GLY:C	2.51	0.42
1:C:352:PRO:HB2	1:C:367:SER:O	2.20	0.42
1:B:1282:GLN:HA	1:B:1302:GLY:O	2.20	0.42
1:F:198:GLU:H	1:F:198:GLU:HG3	1.71	0.42
1:E:391:ILE:CG2	1:E:391:ILE:O	2.63	0.42
1:D:1315:LEU:HD23	1:D:1315:LEU:HA	1.69	0.42
1:E:666:VAL:HG12	1:E:667:ASN:N	2.34	0.42
1:D:875:MET:HE2	1:D:1139:PHE:HE2	1.84	0.42
1:A:452:GLN:CG	1:A:764:THR:HG22	2.48	0.42
1:C:1102:CYS:SG	1:C:1104:MET:N	2.89	0.42
1:C:216:PHE:CE1	1:D:81:ILE:HD13	2.54	0.42
1:A:1339:ALA:HB2	1:A:1435:THR:OG1	2.19	0.42
1:E:227:MET:HE2	1:E:282:GLU:CG	2.49	0.42
1:E:1394:VAL:CG1	1:E:1401:LEU:HD23	2.49	0.42
1:B:253:HIS:CE1	1:B:254:PRO:CG	3.03	0.42
1:C:248:GLU:O	1:C:249:THR:C	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:248:GLU:O	1:E:249:THR:C	2.56	0.42
2:G:162:ALA:HB3	2:G:237:LEU:CD1	2.49	0.42
2:G:69:LEU:HA	2:G:72:THR:HG22	2.00	0.42
2:K:252:GLY:HA3	2:K:258:ILE:HG21	2.02	0.42
2:J:304:CYS:CA	2:J:307:THR:HG22	2.48	0.42
2:I:319:LEU:C	2:I:319:LEU:HD22	2.40	0.42
2:H:319:LEU:CD2	2:H:320:TYR:N	2.83	0.42
2:H:378:GLN:O	2:H:378:GLN:HG2	2.20	0.42
2:I:120:ILE:O	2:I:120:ILE:HG22	2.20	0.42
2:I:190:ILE:CG2	2:I:191:PRO:HD2	2.49	0.42
2:I:429:THR:HB	2:I:431:MET:HG3	2.02	0.42
2:I:94:CYS:SG	2:I:450:VAL:HG22	2.59	0.42
2:J:90:PHE:HZ	2:J:160:LEU:CB	2.33	0.42
2:J:162:ALA:HB3	2:J:237:LEU:CD1	2.49	0.42
2:J:190:ILE:CG2	2:J:191:PRO:HD2	2.49	0.42
2:J:195:LEU:HD12	2:J:196:GLU:O	2.19	0.42
2:G:317:LYS:HE3	2:G:345:ILE:HG13	2.00	0.42
1:F:293:MET:HG2	1:F:410:LEU:HD23	2.00	0.42
2:G:257:ASN:ND2	2:G:395:VAL:HG22	2.34	0.42
2:L:68:TRP:CH2	2:L:124:GLU:OE1	2.72	0.42
2:L:71:LEU:HD22	2:L:74:GLU:HG3	2.01	0.42
2:G:417:VAL:CG1	2:G:418:THR:N	2.83	0.42
1:B:1222:LEU:O	1:B:1222:LEU:HD12	2.20	0.42
1:F:242:ASN:C	1:F:244:MET:N	2.72	0.42
2:G:358:VAL:CG2	2:G:365:VAL:CG1	2.94	0.42
1:D:957:ARG:HD2	1:D:965:LEU:HD12	2.02	0.42
1:D:248:GLU:C	1:D:250:ARG:N	2.73	0.42
1:F:317:ILE:C	1:F:321:ASN:HD22	2.18	0.42
2:K:316:VAL:HG12	2:K:342:VAL:HG13	2.02	0.42
1:D:560:ASP:O	1:D:561:TYR:C	2.58	0.42
1:E:280:VAL:O	1:E:281:PHE:C	2.58	0.42
1:C:420:VAL:CG1	1:C:421:GLN:N	2.81	0.42
1:C:602:THR:C	1:C:640:THR:HG22	2.38	0.42
1:A:194:ASP:HB3	1:A:200:PHE:CE1	2.54	0.42
1:C:454:PHE:CD2	1:C:648:GLU:CB	3.00	0.42
1:E:893:ARG:O	1:E:904:ASN:HB2	2.20	0.42
1:D:1155:PHE:CZ	1:D:1167:LEU:HD21	2.54	0.42
1:F:1164:ARG:HB3	1:F:1167:LEU:CD1	2.47	0.42
1:D:794:VAL:CG2	1:D:817:VAL:HG23	2.49	0.42
1:D:647:ALA:HB2	1:D:669:TYR:OH	2.19	0.42
1:F:1058:LEU:HA	1:F:1058:LEU:HD23	1.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:992:PRO:HA	1:C:1204:ARG:HH22	1.84	0.42
1:B:885:GLY:C	1:B:887:GLY:N	2.68	0.42
1:F:1420:TYR:OH	1:F:1466:LEU:CD2	2.65	0.42
1:D:756:LYS:O	1:D:757:LYS:C	2.58	0.42
1:A:1026:ASN:ND2	1:A:1027:SER:N	2.66	0.42
1:F:62:ILE:O	1:F:62:ILE:CG2	2.68	0.42
1:F:336:THR:C	1:F:337:ASP:O	2.50	0.42
1:B:1435:THR:HG23	1:B:1437:SER:N	2.34	0.42
1:C:871:LEU:HD23	1:C:871:LEU:HA	1.68	0.42
1:D:943:GLN:HE21	1:D:1033:SER:HA	1.83	0.42
1:A:46:ILE:HG12	1:A:48:VAL:HG13	2.01	0.42
1:B:117:ILE:HG23	1:B:117:ILE:HD13	1.35	0.42
1:D:934:GLN:HB2	1:D:934:GLN:HE21	1.58	0.42
1:A:456:LEU:HA	1:A:456:LEU:HD23	1.65	0.42
1:A:928:LEU:HD23	1:A:928:LEU:HA	1.73	0.42
1:F:1153:LEU:HA	1:F:1153:LEU:HD23	1.42	0.42
1:F:1260:GLN:O	1:F:1261:PRO:C	2.56	0.42
1:D:307:GLN:HE21	1:D:1403:LEU:CD2	2.32	0.42
1:C:896:PRO:HB2	1:E:1226:GLY:CA	2.49	0.42
1:A:1430:GLU:O	1:A:1431:HIS:C	2.58	0.42
1:A:1447:TRP:CE2	1:A:1451:VAL:HG21	2.52	0.42
2:J:319:LEU:CD2	2:J:320:TYR:N	2.83	0.42
1:B:1113:CYS:C	1:B:1115:VAL:H	2.23	0.42
2:K:319:LEU:CD2	2:K:320:TYR:N	2.83	0.42
1:B:252:GLU:HA	1:B:260:MET:CE	2.50	0.42
2:H:257:ASN:ND2	2:H:395:VAL:HG22	2.34	0.42
2:G:92:GLU:HG3	2:G:203:ARG:NH1	2.34	0.42
2:G:316:VAL:HG12	2:G:342:VAL:HG13	2.02	0.42
2:G:465:HIS:NE2	2:G:469:LYS:CE	2.83	0.42
2:K:249:LYS:CE	2:K:258:ILE:CD1	2.95	0.42
2:J:264:TYR:CE2	2:J:307:THR:CG2	2.94	0.42
1:A:731:SER:O	1:A:734:LEU:HB3	2.18	0.42
1:D:1376:LEU:HA	1:D:1376:LEU:HD23	1.63	0.42
2:I:324:ARG:HA	2:I:346:TRP:CZ2	2.46	0.42
2:I:367:ILE:O	2:I:390:VAL:HG23	2.19	0.42
2:K:206:LEU:HD22	2:K:206:LEU:HA	1.91	0.42
2:K:465:HIS:NE2	2:K:469:LYS:CE	2.83	0.42
2:K:80:ALA:HB3	2:K:127:ILE:HD11	1.96	0.42
1:E:1156:ARG:HB2	1:E:1156:ARG:HE	1.72	0.42
2:H:297:GLY:O	2:H:327:MET:HE3	2.19	0.42
2:J:120:ILE:O	2:J:120:ILE:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:449:LEU:HD22	2:J:452:TRP:CE2	2.53	0.42
1:B:999:LYS:CG	1:B:1022:LEU:CD2	2.64	0.42
2:G:249:LYS:HD2	2:G:258:ILE:HD13	2.02	0.42
2:G:28:PHE:HZ	2:G:285:LEU:HD21	1.84	0.42
2:L:249:LYS:HD2	2:L:258:ILE:HD13	2.02	0.42
2:L:257:ASN:ND2	2:L:395:VAL:HG22	2.34	0.42
2:H:429:THR:CG2	2:H:431:MET:HE2	2.48	0.42
2:J:417:VAL:CG1	2:J:418:THR:N	2.83	0.42
1:F:540:THR:O	1:F:542:LEU:HG	2.20	0.42
1:A:1045:TRP:O	1:A:1046:GLU:C	2.54	0.42
1:D:1011:ALA:O	1:D:1014:ALA:N	2.52	0.42
2:I:342:VAL:CG1	2:I:343:GLU:N	2.83	0.42
1:C:562:MET:HE1	1:C:605:ILE:HD11	2.01	0.42
1:A:558:MET:C	1:A:560:ASP:N	2.72	0.42
1:E:605:ILE:HA	1:E:643:ASN:O	2.20	0.42
1:B:1281:VAL:HA	1:B:1301:SER:O	2.20	0.42
1:C:464:ILE:CD1	1:C:779:TYR:CZ	2.94	0.42
1:D:438:GLU:HG3	1:D:693:MET:CG	2.50	0.42
1:E:386:GLY:H	1:E:389:GLU:CG	2.33	0.42
1:D:558:MET:C	1:D:560:ASP:H	2.23	0.42
1:C:194:ASP:HB3	1:C:200:PHE:CE1	2.54	0.42
1:F:558:MET:C	1:F:560:ASP:H	2.23	0.42
2:H:269:ASN:HD22	2:H:273:LEU:HD23	1.85	0.42
1:A:297:MET:HE1	1:A:323:VAL:HG11	2.02	0.42
1:C:90:ARG:HB3	1:C:107:TRP:CZ2	2.55	0.42
1:C:78:LEU:HB3	1:C:79:PRO:HD2	2.01	0.42
1:C:111:PRO:C	1:C:112:ILE:HG23	2.40	0.42
1:F:105:TYR:HD1	1:F:105:TYR:H	1.68	0.42
1:F:353:MET:HE2	1:F:353:MET:HA	2.01	0.42
1:C:183:PHE:HE1	1:C:188:LEU:HA	1.79	0.42
1:C:210:ARG:HA	3:C:2473:OMT:HE1	2.02	0.42
1:A:992:PRO:HA	1:A:1204:ARG:HH22	1.84	0.42
1:B:1274:GLN:NE2	1:B:1294:ASP:H	2.18	0.42
1:D:24:ALA:O	1:D:25:LEU:C	2.57	0.42
1:B:24:ALA:O	1:B:25:LEU:C	2.56	0.42
1:A:121:ALA:C	1:A:123:ALA:N	2.73	0.42
1:E:133:VAL:HG12	1:E:134:GLY:N	2.34	0.42
1:A:917:VAL:CG1	1:A:922:LEU:HD21	2.49	0.42
1:A:871:LEU:HD23	1:A:871:LEU:HA	1.68	0.42
1:A:1147:ARG:HD3	1:A:1147:ARG:HH11	1.57	0.42
1:B:1449:ARG:CG	1:B:1449:ARG:NH1	2.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:877:ARG:CD	1:E:1230:GLN:HB2	2.33	0.42
1:E:1267:ARG:HG2	1:E:1267:ARG:H	1.71	0.42
1:A:1424:LEU:HD23	1:A:1424:LEU:C	2.40	0.42
1:A:1425:LYS:HD2	1:A:1447:TRP:CD2	2.54	0.42
1:F:1112:THR:O	2:I:112:GLN:CD	2.57	0.42
1:B:1113:CYS:C	1:B:1115:VAL:N	2.69	0.42
1:B:780:ARG:NH2	2:G:109:VAL:HG11	2.33	0.42
1:E:505:GLN:NE2	1:E:1000:LEU:HB3	2.35	0.42
1:A:292:PRO:O	1:A:293:MET:C	2.55	0.42
1:E:293:MET:HE3	1:E:293:MET:HB3	1.98	0.42
2:G:137:VAL:CG1	2:G:138:LYS:N	2.82	0.42
2:G:132:TRP:CG	2:G:202:ARG:HD2	2.52	0.42
2:J:252:GLY:HA3	2:J:258:ILE:HG21	2.02	0.42
2:J:257:ASN:ND2	2:J:395:VAL:HG22	2.34	0.42
2:J:26:GLN:HG3	2:J:310:ARG:O	2.20	0.42
2:I:322:ARG:CD	2:I:349:ALA:CA	2.98	0.42
1:D:1438:ARG:CZ	2:I:376:GLY:C	2.85	0.42
2:I:387:GLU:CG	2:I:388:PHE:N	2.82	0.42
2:K:137:VAL:CG1	2:K:138:LYS:N	2.82	0.42
2:K:153:ILE:CG1	2:K:220:VAL:HG22	2.49	0.42
2:K:195:LEU:HD12	2:K:196:GLU:O	2.19	0.42
2:K:69:LEU:HA	2:K:72:THR:HG22	2.00	0.42
1:B:1438:ARG:CZ	2:H:376:GLY:C	2.84	0.42
2:I:449:LEU:HD23	2:I:452:TRP:H	1.83	0.42
2:I:89:ASN:HD22	2:I:89:ASN:N	2.17	0.42
2:I:92:GLU:HG3	2:I:203:ARG:NH1	2.34	0.42
2:J:165:GLU:CB	2:J:169:LYS:HZ3	2.32	0.42
2:J:207:LEU:HD12	2:J:212:VAL:CG1	2.49	0.42
2:J:64:ASN:C	2:J:66:PRO:HD2	2.40	0.42
2:G:367:ILE:O	2:G:390:VAL:HG23	2.20	0.42
2:G:388:PHE:CD2	2:G:390:VAL:CG1	2.95	0.42
2:L:415:LEU:CD2	2:L:416:LYS:N	2.82	0.42
2:H:64:ASN:C	2:H:66:PRO:HD2	2.40	0.42
2:H:89:ASN:N	2:H:89:ASN:HD22	2.17	0.42
2:G:406:LEU:CD2	2:G:406:LEU:N	2.82	0.42
1:F:390:MET:HB2	1:F:390:MET:HE2	1.90	0.42
1:A:353:MET:CG	1:A:353:MET:O	2.67	0.42
2:L:358:VAL:HG22	2:L:365:VAL:HG11	1.99	0.42
1:D:317:ILE:HG22	1:D:321:ASN:ND2	2.28	0.42
1:A:419:TRP:CE3	1:A:537:GLU:HA	2.55	0.42
1:D:52:GLN:HB3	1:D:52:GLN:HE21	1.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:843:VAL:HG11	1:B:1147:ARG:HB3	2.00	0.42
1:D:466:HIS:CE1	1:D:684:PHE:HE1	2.33	0.42
1:F:267:ILE:HG12	1:F:279:THR:HG21	2.01	0.42
1:C:591:GLN:O	1:C:594:GLU:N	2.52	0.42
1:E:1131:THR:HG21	1:E:1133:GLU:HB2	2.01	0.42
1:F:203:ASP:N	1:F:203:ASP:OD1	2.48	0.42
1:D:1164:ARG:HB3	1:D:1167:LEU:CD1	2.47	0.42
1:C:929:GLU:HA	1:C:997:THR:HB	2.01	0.42
1:C:362:LEU:HD12	1:C:362:LEU:HA	1.88	0.42
1:F:1274:GLN:NE2	1:F:1294:ASP:H	2.18	0.42
1:B:970:PRO:HG2	1:B:970:PRO:O	2.19	0.42
1:E:330:PRO:HB3	1:E:350:LEU:HB3	2.01	0.42
1:D:997:THR:CG2	1:D:998:VAL:N	2.83	0.42
1:F:1431:HIS:O	1:F:1432:VAL:C	2.54	0.42
1:D:62:ILE:O	1:D:62:ILE:CG2	2.68	0.42
1:F:488:LEU:HD23	1:F:488:LEU:HA	1.71	0.42
1:B:488:LEU:HA	1:B:488:LEU:HD23	1.71	0.42
1:D:807:TYR:O	1:D:810:PHE:HB3	2.20	0.42
1:F:1359:GLY:O	1:F:1360:CYS:HB3	2.20	0.42
1:E:1161:VAL:O	1:E:1161:VAL:HG13	2.18	0.42
1:A:770:VAL:HG12	1:A:770:VAL:O	2.19	0.42
1:F:1158:LEU:HA	1:F:1158:LEU:HD12	1.80	0.42
1:A:691:LYS:HG3	1:A:691:LYS:O	2.20	0.42
1:D:944:LEU:HA	1:D:945:PRO:HD3	1.90	0.42
1:C:442:MET:HE3	1:C:442:MET:HB3	1.81	0.42
1:B:875:MET:HE1	1:B:878:ILE:HD11	2.02	0.42
1:E:216:PHE:CE1	1:F:81:ILE:HD13	2.54	0.42
1:D:782:ARG:HH22	2:H:51:GLY:N	1.97	0.42
1:C:522:LEU:HA	1:C:716:ILE:HG22	2.01	0.42
1:A:969:PRO:N	1:A:970:PRO:HD2	2.35	0.42
1:D:253:HIS:CE1	1:D:254:PRO:CG	3.03	0.42
1:E:635:ASN:O	1:E:636:LEU:HD13	2.20	0.42
1:B:550:LEU:HA	1:B:554:GLU:OE2	2.19	0.42
1:D:500:ARG:HD2	1:D:728:ILE:HG21	2.02	0.42
1:D:444:LYS:HE3	1:D:681:ARG:HH12	1.85	0.42
2:H:304:CYS:CA	2:H:307:THR:HG22	2.48	0.42
2:I:290:LYS:CG	2:I:291:HIS:N	2.79	0.42
2:K:151:GLY:O	2:K:236:VAL:HA	2.20	0.42
2:K:32:TYR:CD2	2:K:194:LYS:HA	2.55	0.42
1:E:1212:ASP:OD2	1:E:1243:GLY:CA	2.67	0.42
2:I:64:ASN:C	2:I:66:PRO:HD2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:449:LEU:HD23	2:J:452:TRP:H	1.83	0.42
2:J:71:LEU:HD22	2:J:74:GLU:HG3	2.01	0.42
2:I:28:PHE:HZ	2:I:285:LEU:HD21	1.83	0.42
2:L:190:ILE:CG2	2:L:191:PRO:HD2	2.49	0.42
2:L:34:ARG:HG3	2:L:125:LYS:CE	2.46	0.42
2:H:169:LYS:HZ3	2:H:461:ALA:HB1	1.85	0.42
2:H:153:ILE:CG1	2:H:220:VAL:CG1	2.96	0.42
2:H:241:GLY:O	2:H:443:ILE:HG22	2.19	0.42
1:D:30:HIS:CE1	1:D:1238:THR:HA	2.53	0.42
1:C:1458:VAL:CG1	1:C:1459:PRO:HD2	2.47	0.42
2:K:417:VAL:CG1	2:K:418:THR:N	2.83	0.42
1:D:404:ARG:HB3	1:D:405:GLU:OE1	2.20	0.42
1:E:353:MET:CG	1:E:353:MET:O	2.67	0.42
1:D:853:PHE:CZ	1:D:1079:ILE:HD13	2.55	0.42
1:E:309:THR:HG21	1:E:314:LYS:HG3	2.02	0.42
1:C:303:LEU:HD11	1:C:314:LYS:HG2	2.01	0.42
1:F:957:ARG:HD2	1:F:965:LEU:HD12	2.02	0.42
2:L:342:VAL:CG1	2:L:343:GLU:N	2.83	0.42
1:F:560:ASP:O	1:F:561:TYR:C	2.58	0.42
1:A:565:THR:CG2	1:A:603:HIS:HD2	2.33	0.42
1:E:565:THR:CG2	1:E:603:HIS:HD2	2.33	0.42
1:B:656:ALA:O	1:B:657:VAL:C	2.59	0.42
1:F:608:ASP:OD2	1:F:646:THR:HA	2.20	0.42
1:A:1003:ARG:CG	1:A:1003:ARG:HH11	2.29	0.42
1:B:868:HIS:O	1:B:870:THR:N	2.53	0.42
1:E:956:LEU:HD23	1:E:956:LEU:HA	1.70	0.42
1:A:1264:ILE:HG22	1:A:1283:GLY:O	2.19	0.42
1:A:185:ALA:O	1:A:186:GLU:C	2.57	0.42
1:A:476:ILE:CG2	1:A:477:GLY:N	2.83	0.42
1:D:586:LEU:HD23	1:D:586:LEU:HA	1.86	0.42
1:D:308:THR:CG2	1:D:308:THR:O	2.66	0.42
1:C:1363:ASN:HD22	1:C:1363:ASN:HA	1.61	0.42
1:A:165:ASN:O	1:A:166:ASP:HB2	2.20	0.42
1:A:352:PRO:HB2	1:A:367:SER:O	2.20	0.42
1:F:53:LYS:O	1:F:54:PHE:C	2.58	0.42
1:A:763:ALA:O	1:A:764:THR:C	2.58	0.42
2:L:110:ILE:HD11	2:L:118:VAL:CA	2.48	0.42
1:A:216:PHE:CE1	1:B:81:ILE:HD13	2.54	0.42
1:B:732:ARG:H	1:B:747:SER:HA	1.85	0.42
2:L:350:PRO:HD2	2:L:374:ALA:CB	2.49	0.42
2:J:322:ARG:CD	2:J:349:ALA:CA	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:378:GLN:O	2:J:378:GLN:HG2	2.20	0.42
1:F:1113:CYS:C	1:F:1115:VAL:H	2.23	0.42
1:C:969:PRO:N	1:C:970:PRO:HD2	2.35	0.42
2:K:319:LEU:HD22	2:K:319:LEU:C	2.40	0.42
1:D:252:GLU:HA	1:D:260:MET:CE	2.50	0.42
1:F:550:LEU:HA	1:F:554:GLU:OE2	2.19	0.42
2:G:469:LYS:O	2:G:472:ALA:HB3	2.20	0.42
2:K:179:TYR:HB3	2:K:181:ARG:HH12	1.81	0.42
1:D:1111:ASN:OD1	1:D:1119:VAL:CG2	2.39	0.42
2:I:378:GLN:HG2	2:I:378:GLN:O	2.20	0.42
2:I:240:THR:HG23	2:I:443:ILE:HG21	2.01	0.42
2:I:32:TYR:HB3	2:I:34:ARG:HG2	2.01	0.42
2:I:425:VAL:HG21	2:I:444:VAL:HG22	2.01	0.42
2:J:151:GLY:O	2:J:236:VAL:HA	2.19	0.42
2:J:31:ILE:HG12	2:J:193:PHE:CD1	2.54	0.42
2:J:63:ASN:CG	2:J:68:TRP:CZ3	2.94	0.42
2:J:64:ASN:OD1	2:J:66:PRO:HG2	2.20	0.42
2:G:319:LEU:HD22	2:G:319:LEU:C	2.40	0.42
1:C:1246:LEU:O	1:C:1249:MET:HB2	2.20	0.42
2:L:153:ILE:HG22	2:L:237:LEU:O	2.20	0.42
2:L:90:PHE:HZ	2:L:160:LEU:CB	2.33	0.42
2:L:173:VAL:CG2	2:L:174:HIS:N	2.81	0.42
2:L:429:THR:HB	2:L:431:MET:HG3	2.02	0.42
1:E:240:ASN:O	1:E:241:VAL:C	2.58	0.42
1:A:1458:VAL:CG1	1:A:1459:PRO:HD2	2.47	0.42
1:E:284:MET:CE	1:E:294:VAL:HG13	2.50	0.42
1:A:852:ARG:NH1	1:A:1088:GLU:O	2.50	0.42
1:C:1370:GLY:N	1:C:1389:GLY:O	2.53	0.42
1:D:965:LEU:HD23	1:D:965:LEU:HA	1.69	0.42
2:H:316:VAL:HG12	2:H:342:VAL:HG13	2.02	0.42
1:F:218:THR:CG2	1:F:221:LEU:H	2.30	0.42
1:C:420:VAL:C	1:C:422:ASN:H	2.23	0.42
2:J:197:LYS:CB	2:J:273:LEU:HG	2.48	0.42
1:E:90:ARG:HB3	1:E:107:TRP:CZ2	2.55	0.42
1:D:267:ILE:HG12	1:D:279:THR:HG21	2.01	0.42
1:C:189:THR:CG2	1:C:190:THR:N	2.63	0.42
1:A:929:GLU:HA	1:A:997:THR:HB	2.01	0.42
1:C:1276:LEU:HD12	1:C:1277:GLY:H	1.85	0.42
1:A:37:ASP:OD1	1:A:38:GLY:N	2.53	0.42
1:C:621:ILE:HG12	1:C:657:VAL:HG11	2.00	0.42
1:A:1236:ARG:O	1:A:1238:THR:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:860:MET:HE2	1:F:868:HIS:ND1	2.34	0.42
1:F:868:HIS:O	1:F:870:THR:N	2.53	0.42
1:B:756:LYS:O	1:B:757:LYS:C	2.58	0.42
1:B:571:ALA:C	1:B:618:ILE:HD12	2.40	0.42
1:E:611:MET:HE3	1:E:611:MET:HB3	1.80	0.42
1:B:547:SER:C	1:B:549:VAL:H	2.22	0.42
1:E:583:ARG:NE	1:E:587:ARG:NH1	2.68	0.42
1:C:917:VAL:CG1	1:C:922:LEU:HD21	2.49	0.42
1:D:1250:VAL:HG13	1:D:1259:LEU:HD12	2.01	0.42
2:K:359:VAL:HG13	2:K:359:VAL:O	2.20	0.42
1:C:683:LEU:HA	1:C:683:LEU:HD23	1.56	0.42
1:D:1129:VAL:O	1:D:1129:VAL:HG23	2.19	0.42
1:B:357:ILE:HG21	1:B:357:ILE:HD13	1.65	0.42
1:C:777:GLY:CA	2:K:52:VAL:HG11	2.42	0.42
1:A:1226:GLY:C	1:E:896:PRO:HB2	2.39	0.42
1:E:897:ASP:OD1	1:E:899:ASN:N	2.50	0.42
2:L:319:LEU:HD22	2:L:319:LEU:C	2.40	0.42
1:C:1339:ALA:HB2	1:C:1435:THR:OG1	2.19	0.42
2:J:319:LEU:C	2:J:319:LEU:HD22	2.40	0.42
2:I:113:SER:HB3	2:I:115:HIS:CD2	2.55	0.42
2:I:46:ARG:NH2	2:I:118:VAL:HA	2.35	0.42
2:I:118:VAL:HG22	2:I:118:VAL:H	1.08	0.42
1:D:1113:CYS:C	1:D:1115:VAL:H	2.23	0.42
1:E:653:HIS:O	1:E:655:PHE:N	2.53	0.42
2:G:110:ILE:HD11	2:G:118:VAL:CA	2.48	0.42
1:C:505:GLN:NE2	1:C:1000:LEU:HB3	2.35	0.42
1:C:635:ASN:O	1:C:636:LEU:HD13	2.20	0.42
1:F:1131:THR:O	1:F:1132:PRO:C	2.58	0.42
1:F:732:ARG:O	1:F:733:ALA:C	2.58	0.42
1:D:745:ARG:C	1:D:746:ILE:HG13	2.40	0.42
2:G:449:LEU:HD12	8:G:484:FAD:O2	2.20	0.42
2:G:71:LEU:HD22	2:G:74:GLU:HG3	2.01	0.42
2:K:26:GLN:HG3	2:K:310:ARG:O	2.20	0.42
1:E:745:ARG:C	1:E:746:ILE:HG13	2.40	0.42
2:I:63:ASN:CG	2:I:68:TRP:CZ3	2.94	0.42
2:I:64:ASN:OD1	2:I:66:PRO:HG2	2.20	0.42
2:J:174:HIS:CD2	2:J:176:TYR:CD1	3.08	0.42
2:I:26:GLN:HG3	2:I:310:ARG:O	2.20	0.42
2:G:387:GLU:CG	2:G:388:PHE:N	2.82	0.42
2:L:237:LEU:HD22	2:L:238:VAL:N	2.35	0.42
2:L:425:VAL:HG21	2:L:444:VAL:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:32:TYR:CD2	2:H:194:LYS:HA	2.55	0.42
2:I:358:VAL:HG22	2:I:365:VAL:HG11	1.99	0.42
2:H:418:THR:CB	2:H:424:LEU:CD1	2.93	0.42
1:A:102:TYR:HE2	1:A:144:PHE:CD1	2.34	0.42
1:F:948:LYS:C	1:F:950:THR:H	2.24	0.42
1:B:701:ASP:C	1:B:703:GLY:N	2.69	0.42
1:F:438:GLU:OE2	1:F:553:ALA:HB3	2.20	0.42
1:F:438:GLU:HG3	1:F:693:MET:CG	2.50	0.42
1:D:734:LEU:HD11	1:D:738:HIS:HD2	1.51	0.42
1:F:919:ALA:CB	1:F:1281:VAL:CG1	2.98	0.42
2:G:269:ASN:HD22	2:G:273:LEU:HD23	1.85	0.42
1:A:420:VAL:HG12	1:A:421:GLN:N	2.35	0.42
1:F:1143:ALA:O	1:F:1147:ARG:HG3	2.20	0.42
1:C:595:ASP:O	1:C:596:ALA:O	2.38	0.42
1:A:894:PHE:CD1	1:A:904:ASN:ND2	2.88	0.42
1:D:175:ARG:CG	1:D:175:ARG:NH1	2.79	0.42
1:E:1460:LYS:O	1:E:1461:GLU:C	2.55	0.42
1:B:1164:ARG:HH11	1:B:1164:ARG:HD2	1.60	0.42
1:F:1424:LEU:HD23	1:F:1424:LEU:C	2.39	0.42
1:E:37:ASP:OD1	1:E:38:GLY:N	2.53	0.42
1:D:1274:GLN:NE2	1:D:1294:ASP:H	2.18	0.42
1:D:1468:VAL:O	1:D:1469:PRO:C	2.57	0.42
1:E:695:ASN:O	1:E:698:LYS:N	2.53	0.42
1:C:1348:VAL:O	1:C:1348:VAL:CG1	2.65	0.42
1:A:1354:THR:HG23	1:A:1372:THR:HB	2.01	0.42
1:C:583:ARG:NE	1:C:587:ARG:NH1	2.68	0.42
1:D:1359:GLY:O	1:D:1360:CYS:HB3	2.20	0.42
1:E:1159:ASN:C	1:E:1161:VAL:H	2.22	0.42
1:F:491:LYS:HE2	1:F:785:GLY:HA3	2.02	0.42
1:E:256:PHE:O	1:E:257:GLY:C	2.56	0.42
1:C:391:ILE:O	1:C:391:ILE:CG2	2.63	0.42
1:C:770:VAL:HG12	1:C:770:VAL:O	2.19	0.42
2:H:359:VAL:O	2:H:359:VAL:HG13	2.20	0.42
1:B:864:SER:HG	1:B:867:ALA:H	1.61	0.42
1:D:51:PRO:HD2	1:D:55:PHE:HD2	1.84	0.42
1:A:782:ARG:C	1:A:784:SER:N	2.70	0.41
2:L:113:SER:HB3	2:L:115:HIS:CD2	2.55	0.41
1:C:442:MET:HE1	1:C:447:LEU:CA	2.47	0.41
1:D:1222:LEU:HD12	1:D:1222:LEU:O	2.20	0.41
1:B:182:MET:CG	1:B:182:MET:O	2.66	0.41
2:L:302:MET:CE	2:L:333:GLU:CG	2.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:331:GLN:HA	2:L:334:VAL:HG21	1.98	0.41
1:C:1447:TRP:NE1	1:C:1451:VAL:HG21	2.35	0.41
2:J:291:HIS:HD2	2:J:392:ALA:HB2	1.84	0.41
1:E:969:PRO:N	1:E:970:PRO:HD2	2.35	0.41
1:B:479:MET:HG3	1:B:1104:MET:HE3	2.02	0.41
1:F:252:GLU:HA	1:F:260:MET:CE	2.50	0.41
1:E:289:ARG:HD3	1:E:293:MET:HE2	2.02	0.41
1:B:550:LEU:HD13	1:B:555:PHE:HA	2.01	0.41
1:D:732:ARG:H	1:D:747:SER:HA	1.85	0.41
2:H:249:LYS:CE	2:H:258:ILE:CD1	2.95	0.41
2:H:288:ALA:CB	2:H:311:GLN:HG3	2.50	0.41
2:G:144:ARG:HD2	2:G:169:LYS:CB	2.47	0.41
2:G:415:LEU:CD2	2:G:416:LYS:N	2.82	0.41
1:C:103:TYR:OH	1:D:1178:LEU:HD13	2.20	0.41
1:C:52:GLN:HE21	1:C:52:GLN:HB3	1.56	0.41
1:E:778:PHE:CE2	1:E:1039:LYS:CD	2.75	0.41
2:I:32:TYR:CD2	2:I:194:LYS:HA	2.55	0.41
2:J:153:ILE:HG22	2:J:237:LEU:O	2.20	0.41
2:J:237:LEU:HD22	2:J:238:VAL:N	2.35	0.41
2:L:92:GLU:HG3	2:L:203:ARG:NH1	2.34	0.41
2:L:432:THR:CG2	2:L:437:VAL:HG13	2.50	0.41
2:L:64:ASN:C	2:L:66:PRO:HD2	2.40	0.41
2:L:181:ARG:CD	2:L:187:VAL:CG1	2.94	0.41
2:H:174:HIS:CD2	2:H:176:TYR:CD1	3.08	0.41
2:L:417:VAL:CG1	2:L:418:THR:N	2.83	0.41
2:L:418:THR:N	2:L:424:LEU:CD2	2.83	0.41
2:I:417:VAL:CG1	2:I:418:THR:N	2.83	0.41
1:F:295:LYS:HB3	1:F:390:MET:HE1	2.02	0.41
1:F:404:ARG:HB3	1:F:405:GLU:OE1	2.20	0.41
1:C:102:TYR:HE2	1:C:144:PHE:CD1	2.34	0.41
1:C:1062:ARG:HH11	1:C:1062:ARG:HD3	1.53	0.41
1:E:582:LEU:CB	1:E:755:GLN:HE21	2.30	0.41
1:E:390:MET:HG3	1:E:406:LEU:HD23	2.02	0.41
1:E:894:PHE:CZ	1:E:924:GLN:HG3	2.55	0.41
1:A:111:PRO:C	1:A:112:ILE:HG23	2.40	0.41
1:C:820:ARG:CB	1:C:821:PRO:CD	2.96	0.41
1:C:893:ARG:O	1:C:904:ASN:HB2	2.20	0.41
1:C:1131:THR:HG21	1:C:1133:GLU:HB2	2.01	0.41
1:E:1289:MET:CE	1:E:1289:MET:N	2.76	0.41
1:A:210:ARG:HA	3:A:2473:OMT:HE1	2.02	0.41
1:E:1236:ARG:O	1:E:1238:THR:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:42:ASP:HB2	1:B:210:ARG:O	2.20	0.41
1:F:42:ASP:HB2	1:F:210:ARG:O	2.20	0.41
1:F:571:ALA:C	1:F:618:ILE:HD12	2.40	0.41
1:C:805:ASP:C	1:C:805:ASP:OD1	2.58	0.41
1:C:133:VAL:HG12	1:C:134:GLY:N	2.34	0.41
1:A:990:ILE:O	1:A:990:ILE:HG13	2.19	0.41
1:A:42:ASP:OD1	1:A:212:SER:OG	2.39	0.41
1:A:666:VAL:HG12	1:A:667:ASN:N	2.34	0.41
1:A:195:LEU:HA	1:A:195:LEU:HD23	1.57	0.41
2:I:359:VAL:HG13	2:I:359:VAL:O	2.20	0.41
1:F:1129:VAL:HG23	1:F:1129:VAL:O	2.19	0.41
2:J:359:VAL:O	2:J:359:VAL:HG13	2.20	0.41
1:B:491:LYS:HE2	1:B:785:GLY:HA3	2.02	0.41
1:A:77:PHE:HB3	1:A:126:PRO:CB	2.50	0.41
1:F:232:GLY:HA3	1:F:330:PRO:O	2.20	0.41
2:J:46:ARG:NH2	2:J:118:VAL:HA	2.35	0.41
2:K:46:ARG:NH2	2:K:118:VAL:HA	2.35	0.41
1:A:1450:GLU:O	1:A:1451:VAL:C	2.57	0.41
2:L:318:CYS:SG	2:L:320:TYR:CZ	3.06	0.41
1:C:1356:VAL:CG1	1:C:1431:HIS:CG	3.03	0.41
2:H:46:ARG:NH2	2:H:118:VAL:HA	2.35	0.41
1:B:1104:MET:C	2:G:54:PHE:HZ	2.03	0.41
1:E:149:TYR:HE2	1:E:263:LEU:HD21	1.86	0.41
1:E:1424:LEU:HD23	1:E:1424:LEU:C	2.40	0.41
1:F:253:HIS:CE1	1:F:254:PRO:CG	3.03	0.41
1:F:263:LEU:N	1:F:263:LEU:CD1	2.73	0.41
1:E:629:THR:O	1:E:631:LEU:N	2.53	0.41
1:F:853:PHE:CZ	1:F:1079:ILE:HD13	2.55	0.41
1:F:500:ARG:HD2	1:F:728:ILE:HG21	2.02	0.41
1:A:376:GLU:HG3	1:A:1310:THR:OG1	2.20	0.41
1:B:444:LYS:HE3	1:B:681:ARG:HH12	1.85	0.41
2:G:190:ILE:CG2	2:G:191:PRO:HD2	2.49	0.41
2:G:32:TYR:CD2	2:G:194:LYS:HA	2.55	0.41
2:G:447:ALA:CB	2:G:452:TRP:CE3	2.92	0.41
2:G:80:ALA:HB3	2:G:127:ILE:HD11	1.96	0.41
1:E:52:GLN:NE2	1:E:71:LEU:N	2.44	0.41
2:J:181:ARG:CG	2:J:182:MET:N	2.83	0.41
1:A:735:VAL:HG23	1:A:735:VAL:H	1.49	0.41
2:I:319:LEU:CD2	2:I:320:TYR:N	2.83	0.41
2:I:317:LYS:CE	2:I:345:ILE:CD1	2.94	0.41
2:K:432:THR:CG2	2:K:437:VAL:HG13	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:449:LEU:CD2	2:K:451:VAL:CG1	2.89	0.41
2:I:241:GLY:O	2:I:443:ILE:HG22	2.19	0.41
2:J:153:ILE:CG1	2:J:220:VAL:CG1	2.95	0.41
2:J:429:THR:HB	2:J:431:MET:HG3	2.02	0.41
2:J:241:GLY:O	2:J:443:ILE:HG22	2.19	0.41
2:J:89:ASN:N	2:J:89:ASN:HD22	2.17	0.41
1:A:1246:LEU:O	1:A:1249:MET:HB2	2.20	0.41
1:A:1039:LYS:O	1:A:1040:PHE:CD1	2.73	0.41
1:F:1438:ARG:NH2	2:G:377:ARG:O	2.47	0.41
2:G:345:ILE:N	2:G:345:ILE:HD13	2.17	0.41
2:L:132:TRP:CG	2:L:202:ARG:HD2	2.52	0.41
2:L:64:ASN:OD1	2:L:66:PRO:HG2	2.20	0.41
2:H:151:GLY:O	2:H:236:VAL:HA	2.20	0.41
2:H:153:ILE:HG22	2:H:237:LEU:O	2.20	0.41
2:L:418:THR:CB	2:L:424:LEU:CD1	2.93	0.41
1:B:404:ARG:HB3	1:B:405:GLU:OE1	2.20	0.41
2:L:358:VAL:CG2	2:L:365:VAL:CG1	2.94	0.41
1:D:1131:THR:O	1:D:1132:PRO:C	2.58	0.41
1:C:309:THR:HG21	1:C:314:LYS:HG3	2.02	0.41
1:B:960:THR:CG2	1:B:963:VAL:HG23	2.47	0.41
1:D:942:GLY:HA2	5:D:2475:AKG:O5	2.20	0.41
1:F:694:ALA:O	1:F:695:ASN:C	2.58	0.41
2:K:342:VAL:CG1	2:K:343:GLU:N	2.83	0.41
1:B:919:ALA:CB	1:B:1281:VAL:CG1	2.98	0.41
1:D:919:ALA:CB	1:D:1281:VAL:CG1	2.98	0.41
1:A:949:VAL:O	1:A:950:THR:O	2.37	0.41
1:D:856:PRO:HG2	1:D:1093:GLY:HA3	2.02	0.41
1:C:862:ALA:O	1:C:1118:CYS:HB3	2.18	0.41
1:A:280:VAL:O	1:A:281:PHE:C	2.58	0.41
1:D:1143:ALA:O	1:D:1147:ARG:HG3	2.20	0.41
2:I:269:ASN:HD22	2:I:273:LEU:HD23	1.85	0.41
1:B:267:ILE:HG12	1:B:279:THR:HG21	2.01	0.41
1:A:112:ILE:HA	1:A:191:PHE:O	2.20	0.41
1:C:787:ARG:HD3	1:C:787:ARG:HH11	1.66	0.41
1:D:666:VAL:HG13	1:D:667:ASN:N	2.34	0.41
1:B:105:TYR:HD1	1:B:105:TYR:H	1.68	0.41
1:C:831:LEU:HD13	1:C:1084:MET:HE3	2.02	0.41
1:F:794:VAL:CG2	1:F:817:VAL:HG23	2.49	0.41
1:C:991:ASN:HA	1:C:992:PRO:HD2	1.84	0.41
1:E:329:GLY:O	1:E:330:PRO:C	2.56	0.41
1:B:481:ASP:HB2	1:B:1038:ILE:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:232:GLY:HA3	1:D:330:PRO:O	2.20	0.41
1:F:481:ASP:HB2	1:F:1038:ILE:HG22	2.02	0.41
1:A:304:THR:HG21	1:A:518:ARG:HD2	2.03	0.41
1:F:942:GLY:HA2	5:F:2475:AKG:O5	2.20	0.41
1:E:1407:ASP:O	1:E:1409:SER:N	2.53	0.41
1:E:165:ASN:O	1:E:166:ASP:HB2	2.20	0.41
1:B:51:PRO:HD2	1:B:55:PHE:HD2	1.84	0.41
1:C:1059:ASN:N	1:C:1059:ASN:HD22	2.19	0.41
2:J:113:SER:HB3	2:J:115:HIS:CD2	2.55	0.41
2:L:46:ARG:NH2	2:L:118:VAL:HA	2.35	0.41
1:B:853:PHE:CZ	1:B:1079:ILE:HD13	2.55	0.41
1:B:745:ARG:C	1:B:746:ILE:HG13	2.40	0.41
1:B:897:ASP:OD1	1:B:899:ASN:N	2.52	0.41
1:D:780:ARG:NH2	2:H:54:PHE:HD1	2.18	0.41
1:E:454:PHE:CD2	1:E:648:GLU:CB	3.00	0.41
1:C:500:ARG:HG2	1:C:500:ARG:H	1.71	0.41
1:E:1427:LEU:HA	1:E:1427:LEU:HD23	1.79	0.41
1:E:1430:GLU:O	1:E:1431:HIS:C	2.58	0.41
2:K:351:GLU:CB	2:K:353:PHE:HB3	2.47	0.41
1:F:444:LYS:HE3	1:F:681:ARG:HH12	1.85	0.41
2:G:342:VAL:CG1	2:G:343:GLU:N	2.83	0.41
2:G:432:THR:CG2	2:G:437:VAL:HG13	2.50	0.41
2:K:174:HIS:CD2	2:K:176:TYR:CD1	3.08	0.41
2:K:237:LEU:HD22	2:K:238:VAL:N	2.35	0.41
2:K:306:ARG:HD3	2:K:336:HIS:CB	2.45	0.41
2:K:429:THR:HB	2:K:431:MET:HG3	2.02	0.41
2:H:181:ARG:CG	2:H:182:MET:N	2.83	0.41
2:I:174:HIS:CD2	2:I:176:TYR:CD1	3.08	0.41
2:I:237:LEU:HD22	2:I:238:VAL:N	2.35	0.41
2:J:449:LEU:HD12	8:J:484:FAD:O2	2.20	0.41
2:I:257:ASN:ND2	2:I:395:VAL:HG22	2.34	0.41
2:G:26:GLN:HG3	2:G:310:ARG:O	2.20	0.41
2:H:190:ILE:HB	2:H:195:LEU:HD23	2.03	0.41
2:I:418:THR:N	2:I:424:LEU:CD2	2.83	0.41
1:D:244:MET:HE2	1:D:244:MET:HA	2.01	0.41
1:E:526:LEU:H	1:E:526:LEU:CD1	2.17	0.41
1:F:1011:ALA:O	1:F:1014:ALA:N	2.52	0.41
1:B:942:GLY:HA2	5:B:2475:AKG:O5	2.20	0.41
2:L:100:GLN:CB	2:L:105:GLU:CG	2.93	0.41
1:D:695:ASN:O	1:D:696:TYR:C	2.57	0.41
1:D:561:TYR:O	1:D:561:TYR:CD1	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:598:ARG:HD3	1:D:598:ARG:HH11	1.70	0.41
1:E:982:GLN:HE22	1:E:1240:ARG:CD	2.25	0.41
1:E:420:VAL:C	1:E:422:ASN:H	2.23	0.41
1:E:914:ARG:HH22	1:E:973:ASP:CG	2.23	0.41
1:A:653:HIS:O	1:A:655:PHE:N	2.53	0.41
1:B:266:VAL:HG12	1:B:279:THR:HG22	1.97	0.41
1:A:893:ARG:O	1:A:904:ASN:HB2	2.20	0.41
1:C:24:ALA:O	1:C:27:ALA:N	2.27	0.41
1:B:175:ARG:NH2	1:B:203:ASP:OD2	2.53	0.41
1:F:175:ARG:NH2	1:F:203:ASP:OD2	2.53	0.41
1:C:37:ASP:OD1	1:C:38:GLY:N	2.53	0.41
1:A:1057:THR:CG2	1:A:1190:VAL:HG11	2.50	0.41
1:B:806:SER:HG	1:B:809:THR:HB	1.85	0.41
1:F:997:THR:CG2	1:F:998:VAL:N	2.83	0.41
1:E:856:PRO:C	1:E:883:ASP:HB3	2.41	0.41
1:A:856:PRO:C	1:A:883:ASP:HB3	2.41	0.41
1:D:571:ALA:C	1:D:618:ILE:HD12	2.40	0.41
1:C:1384:ALA:O	1:C:1385:ALA:C	2.57	0.41
1:D:485:ILE:HG21	1:D:485:ILE:HD13	1.68	0.41
1:D:495:LEU:HD12	1:D:495:LEU:HA	1.36	0.41
1:B:1359:GLY:O	1:B:1360:CYS:HB3	2.20	0.41
1:D:117:ILE:HG21	1:D:117:ILE:HD12	1.49	0.41
1:A:10:ASP:OD1	1:A:10:ASP:C	2.59	0.41
1:C:476:ILE:CG2	1:C:477:GLY:N	2.83	0.41
1:D:1282:GLN:HA	1:D:1302:GLY:O	2.20	0.41
1:C:1235:ALA:HA	1:C:1239:GLN:OE1	2.20	0.41
1:E:447:LEU:CD1	1:E:451:GLN:CG	2.96	0.41
1:C:784:SER:HB3	1:C:785:GLY:H	1.66	0.41
1:D:1230:GLN:HB2	1:F:877:ARG:CD	2.48	0.41
1:A:1230:GLN:C	1:A:1231:LEU:HD23	2.41	0.41
1:A:1375:ILE:HG21	1:A:1375:ILE:HD13	1.75	0.41
1:C:1424:LEU:C	1:C:1424:LEU:HD23	2.40	0.41
2:J:353:PHE:N	2:J:369:LEU:HD23	2.36	0.41
2:H:110:ILE:HD11	2:H:118:VAL:CA	2.48	0.41
1:A:253:HIS:N	1:A:260:MET:HE1	2.31	0.41
2:G:113:SER:HB3	2:G:115:HIS:CD2	2.55	0.41
2:G:46:ARG:NH2	2:G:118:VAL:HA	2.35	0.41
1:E:263:LEU:HD12	1:E:263:LEU:HA	1.01	0.41
1:C:629:THR:O	1:C:631:LEU:N	2.53	0.41
2:G:119:THR:OG1	2:G:122:SER:HB3	2.21	0.41
2:G:153:ILE:HG22	2:G:237:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:734:LEU:HD12	1:E:738:HIS:CD2	2.41	0.41
2:I:353:PHE:CD1	2:I:382:VAL:CG1	3.01	0.41
2:I:351:GLU:CB	2:I:353:PHE:HB3	2.47	0.41
2:K:469:LYS:O	2:K:472:ALA:HB3	2.20	0.41
1:C:1039:LYS:O	1:C:1040:PHE:CD1	2.73	0.41
2:J:152:VAL:CG2	2:J:153:ILE:N	2.82	0.41
2:J:429:THR:CB	2:J:431:MET:HE2	2.50	0.41
2:L:212:VAL:H	2:L:212:VAL:HG12	1.49	0.41
2:L:469:LYS:O	2:L:472:ALA:HB3	2.20	0.41
1:D:410:LEU:HD12	1:D:410:LEU:N	2.36	0.41
1:F:520:MET:HE3	1:F:705:LEU:HB3	2.01	0.41
2:L:181:ARG:CG	2:L:182:MET:N	2.83	0.41
2:I:181:ARG:CG	2:I:182:MET:N	2.83	0.41
1:D:913:GLY:CA	1:D:1349:ARG:CD	2.94	0.41
1:B:342:VAL:HG11	1:B:390:MET:HE2	2.03	0.41
1:A:960:THR:HA	1:A:961:PRO:HD3	1.92	0.41
2:I:358:VAL:CG2	2:I:365:VAL:CG1	2.94	0.41
1:A:113:ASN:ND2	1:A:115:ASP:N	2.42	0.41
1:D:948:LYS:C	1:D:950:THR:H	2.23	0.41
1:D:1458:VAL:HA	1:D:1459:PRO:HD3	1.90	0.41
2:J:316:VAL:HG12	2:J:342:VAL:HG13	2.02	0.41
1:B:588:ARG:HH11	1:B:588:ARG:HD3	1.68	0.41
1:B:856:PRO:HG2	1:B:1093:GLY:HA3	2.02	0.41
1:B:438:GLU:HG3	1:B:693:MET:CG	2.50	0.41
1:A:406:LEU:O	1:A:409:HIS:HB3	2.21	0.41
1:C:420:VAL:HG12	1:C:421:GLN:N	2.35	0.41
1:C:537:GLU:C	1:C:539:GLN:N	2.74	0.41
1:F:754:ILE:HG22	1:F:755:GLN:N	2.34	0.41
1:C:653:HIS:O	1:C:655:PHE:N	2.53	0.41
1:C:890:ASP:HA	1:C:891:PRO:HD3	1.85	0.41
1:C:461:MET:HE3	1:C:461:MET:HA	2.02	0.41
1:A:606:LEU:O	1:A:607:THR:HG22	2.21	0.41
1:D:536:ASP:OD1	1:D:538:THR:N	2.54	0.41
1:B:608:ASP:OD2	1:B:646:THR:HA	2.20	0.41
1:C:696:TYR:CZ	1:C:700:ILE:HD11	2.55	0.41
1:D:481:ASP:HB2	1:D:1038:ILE:HG22	2.03	0.41
1:B:991:ASN:HA	1:B:992:PRO:HD2	1.83	0.41
1:B:364:ILE:HD12	1:B:374:ILE:HD11	2.00	0.41
1:B:661:VAL:O	1:B:661:VAL:HG12	2.21	0.41
1:D:1461:GLU:H	1:D:1461:GLU:HG2	1.64	0.41
1:E:545:LEU:HA	1:E:545:LEU:HD23	1.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:359:VAL:O	2:L:359:VAL:HG13	2.20	0.41
1:C:1147:ARG:HD3	1:C:1147:ARG:HH11	1.57	0.41
1:A:1407:ASP:O	1:A:1409:SER:N	2.53	0.41
1:E:352:PRO:HB2	1:E:367:SER:O	2.20	0.41
1:C:77:PHE:HB3	1:C:126:PRO:CB	2.50	0.41
1:B:1250:VAL:HG13	1:B:1259:LEU:HD12	2.01	0.41
1:E:479:MET:HG3	1:E:1104:MET:HE1	1.97	0.41
1:E:763:ALA:O	1:E:764:THR:C	2.58	0.41
1:F:1219:ALA:HA	1:F:1229:MET:HE1	2.01	0.41
1:A:1356:VAL:CG1	1:A:1431:HIS:CG	3.03	0.41
1:A:1447:TRP:NE1	1:A:1451:VAL:HG21	2.35	0.41
1:F:780:ARG:NH2	2:I:54:PHE:HD1	2.18	0.41
2:H:51:GLY:O	2:H:52:VAL:HG23	2.16	0.41
1:E:520:MET:O	1:E:521:SER:CB	2.69	0.41
1:A:149:TYR:HE2	1:A:263:LEU:HD21	1.86	0.41
1:E:1356:VAL:CG1	1:E:1431:HIS:CG	3.03	0.41
1:A:289:ARG:HD3	1:A:293:MET:HE2	2.02	0.41
1:F:555:PHE:CD1	1:F:556:ARG:N	2.77	0.41
1:F:732:ARG:H	1:F:747:SER:HA	1.85	0.41
1:C:555:PHE:CD1	1:C:556:ARG:N	2.89	0.41
2:G:449:LEU:CD2	2:G:451:VAL:CG1	2.89	0.41
2:K:181:ARG:CG	2:K:182:MET:N	2.83	0.41
2:J:181:ARG:HB3	2:J:181:ARG:CZ	2.51	0.41
2:K:449:LEU:HD12	8:K:484:FAD:O2	2.20	0.41
2:I:31:ILE:CG1	2:I:193:PHE:HD1	2.34	0.41
2:J:190:ILE:HB	2:J:195:LEU:HD23	2.03	0.41
2:J:32:TYR:CD2	2:J:194:LYS:HA	2.55	0.41
2:J:447:ALA:CB	2:J:452:TRP:CE3	2.92	0.41
2:I:249:LYS:HD2	2:I:258:ILE:HD13	2.02	0.41
2:I:304:CYS:CA	2:I:307:THR:HG22	2.48	0.41
1:B:410:LEU:N	1:B:410:LEU:HD12	2.36	0.41
2:G:319:LEU:CD2	2:G:320:TYR:N	2.83	0.41
2:L:119:THR:OG1	2:L:122:SER:HB3	2.21	0.41
2:L:31:ILE:CG1	2:L:193:PHE:HD1	2.33	0.41
2:L:449:LEU:HD12	8:L:484:FAD:O2	2.20	0.41
1:D:290:THR:HG22	1:D:292:PRO:CD	2.48	0.41
1:F:937:LYS:N	1:F:938:PRO:HD3	2.35	0.41
2:H:63:ASN:CG	2:H:68:TRP:CZ3	2.94	0.41
2:I:181:ARG:HB3	2:I:181:ARG:CZ	2.51	0.41
1:B:30:HIS:HE2	1:B:31:ARG:HD2	1.86	0.41
1:B:244:MET:O	1:B:245:LYS:C	2.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:348:ASN:O	1:C:349:GLY:C	2.58	0.41
1:D:504:SER:HB2	1:D:508:ASN:OD1	2.21	0.41
1:C:284:MET:CE	1:C:294:VAL:HG13	2.50	0.41
1:B:505:GLN:HE22	1:B:1001:VAL:N	2.17	0.41
1:E:930:ILE:CD1	1:E:983:LEU:HD13	2.43	0.41
1:B:227:MET:HE2	1:B:282:GLU:HG3	2.01	0.41
1:F:505:GLN:HE22	1:F:1001:VAL:N	2.17	0.41
2:H:365:VAL:H	2:H:365:VAL:HG12	1.52	0.41
1:E:1062:ARG:HD3	1:E:1062:ARG:HH11	1.53	0.41
1:A:605:ILE:HA	1:A:643:ASN:O	2.19	0.41
1:B:561:TYR:O	1:B:561:TYR:CD1	2.74	0.41
1:C:419:TRP:CE3	1:C:537:GLU:HA	2.55	0.41
1:C:565:THR:CG2	1:C:603:HIS:HD2	2.33	0.41
2:J:197:LYS:CD	2:J:274:GLY:N	2.83	0.41
2:I:197:LYS:CB	2:I:273:LEU:HG	2.48	0.41
1:B:843:VAL:CG1	1:B:844:GLU:H	2.32	0.41
1:E:419:TRP:CE3	1:E:537:GLU:HA	2.55	0.41
1:E:420:VAL:HG12	1:E:421:GLN:N	2.35	0.41
1:A:914:ARG:HH22	1:A:973:ASP:CG	2.23	0.41
1:C:230:HIS:C	1:C:230:HIS:CD2	2.94	0.41
1:A:24:ALA:C	1:A:26:LYS:H	2.23	0.41
1:E:24:ALA:C	1:E:26:LYS:H	2.23	0.41
1:C:112:ILE:HA	1:C:191:PHE:O	2.20	0.41
1:D:175:ARG:NH2	1:D:203:ASP:OD2	2.54	0.41
1:D:492:TYR:CD1	1:D:492:TYR:C	2.94	0.41
1:A:1466:LEU:O	1:A:1468:VAL:N	2.53	0.41
1:D:609:GLU:C	1:D:611:MET:H	2.22	0.41
1:C:1236:ARG:O	1:C:1238:THR:N	2.53	0.41
1:B:970:PRO:O	1:B:970:PRO:CG	2.68	0.41
1:D:42:ASP:HB2	1:D:210:ARG:O	2.20	0.41
1:B:232:GLY:HA3	1:B:330:PRO:O	2.20	0.41
1:B:330:PRO:HA	1:B:350:LEU:HB2	2.03	0.41
1:B:1066:ARG:NH1	1:B:1089:GLU:OE2	2.53	0.41
1:E:304:THR:HG21	1:E:518:ARG:HD2	2.03	0.41
1:E:121:ALA:C	1:E:123:ALA:N	2.73	0.41
1:F:807:TYR:O	1:F:810:PHE:HB3	2.20	0.41
1:B:807:TYR:O	1:B:810:PHE:HB3	2.20	0.41
1:A:833:SER:HB2	1:A:1167:LEU:HD22	2.03	0.41
1:D:230:HIS:CE1	1:D:234:ILE:HG13	2.55	0.41
1:C:165:ASN:O	1:C:166:ASP:HB2	2.20	0.41
2:J:427:HIS:ND1	2:J:428:ARG:HG3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:53:LYS:O	1:B:54:PHE:C	2.58	0.41
1:E:10:ASP:OD1	1:E:10:ASP:C	2.59	0.41
1:B:1158:LEU:HA	1:B:1158:LEU:HD12	1.80	0.41
1:A:273:ASP:N	1:A:273:ASP:OD1	2.54	0.41
1:E:1059:ASN:HD22	1:E:1059:ASN:N	2.19	0.41
2:I:427:HIS:ND1	2:I:428:ARG:HG3	2.36	0.41
1:C:1230:GLN:C	1:C:1231:LEU:HD23	2.41	0.41
1:A:1226:GLY:O	1:A:1227:GLU:C	2.59	0.41
1:B:1354:THR:HA	1:B:1372:THR:O	2.21	0.41
1:B:1354:THR:HG21	1:B:1427:LEU:HD21	2.03	0.41
2:L:319:LEU:CD2	2:L:320:TYR:N	2.83	0.41
1:C:1394:VAL:CG1	1:C:1401:LEU:CD2	2.95	0.41
1:F:1105:VAL:HG13	1:F:1107:GLN:CG	2.48	0.41
1:C:520:MET:O	1:C:521:SER:CB	2.69	0.41
1:C:706:LYS:NZ	1:C:1034:PRO:HG2	2.36	0.41
1:E:1394:VAL:CG1	1:E:1401:LEU:CD2	2.95	0.41
1:E:631:LEU:HD22	1:E:631:LEU:HA	1.39	0.41
1:F:802:VAL:CG2	1:F:1137:ASN:HB2	2.46	0.41
1:F:802:VAL:CG2	1:F:1134:LYS:O	2.69	0.41
1:E:555:PHE:CD1	1:E:556:ARG:N	2.89	0.41
1:F:458:MET:O	1:F:461:MET:N	2.50	0.41
1:B:764:THR:O	1:B:764:THR:CG2	2.63	0.41
1:B:457:THR:HA	1:B:773:LEU:HB3	2.02	0.41
2:H:249:LYS:HD2	2:H:258:ILE:HD13	2.02	0.41
2:H:26:GLN:HG3	2:H:310:ARG:O	2.20	0.41
2:H:264:TYR:CE2	2:H:307:THR:CG2	2.94	0.41
2:G:237:LEU:HD22	2:G:238:VAL:N	2.35	0.41
2:G:64:ASN:OD1	2:G:66:PRO:HG2	2.20	0.41
2:K:257:ASN:ND2	2:K:395:VAL:HG22	2.34	0.41
2:I:353:PHE:N	2:I:369:LEU:HD23	2.36	0.41
2:K:137:VAL:HG12	2:K:139:PRO:HD3	2.03	0.41
2:K:153:ILE:HG22	2:K:237:LEU:O	2.20	0.41
2:K:190:ILE:CG2	2:K:191:PRO:HD2	2.49	0.41
2:K:153:ILE:CG1	2:K:220:VAL:CG1	2.95	0.41
2:K:59:CYS:SG	2:K:61:VAL:CG1	3.05	0.41
2:H:291:HIS:HD2	2:H:392:ALA:HB2	1.84	0.41
2:H:322:ARG:CD	2:H:349:ALA:CB	2.94	0.41
2:I:429:THR:CG2	2:I:431:MET:HE2	2.51	0.41
2:J:137:VAL:HG12	2:J:139:PRO:HD3	2.03	0.41
2:J:31:ILE:CG1	2:J:193:PHE:HD1	2.34	0.41
2:J:306:ARG:HD3	2:J:336:HIS:CB	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:469:LYS:O	2:J:472:ALA:HB3	2.20	0.41
2:I:252:GLY:HA3	2:I:258:ILE:HG21	2.02	0.41
2:G:378:GLN:HG2	2:G:378:GLN:O	2.20	0.41
1:C:1111:ASN:OD1	1:C:1119:VAL:CG2	2.37	0.41
2:G:252:GLY:HA3	2:G:258:ILE:HG21	2.02	0.41
2:L:32:TYR:CD2	2:L:194:LYS:HA	2.55	0.41
2:L:63:ASN:CG	2:L:68:TRP:CZ3	2.94	0.41
2:L:63:ASN:OD1	2:L:68:TRP:CH2	2.74	0.41
2:H:425:VAL:HG21	2:H:444:VAL:HG22	2.01	0.41
2:H:469:LYS:O	2:H:472:ALA:HB3	2.20	0.41
1:D:30:HIS:HE2	1:D:31:ARG:HD2	1.86	0.41
2:I:148:LEU:CB	2:I:234:VAL:CG2	2.97	0.41
1:B:242:ASN:C	1:B:244:MET:N	2.72	0.41
1:A:1210:THR:CG2	1:A:1211:LEU:N	2.47	0.41
2:G:366:ARG:HG2	2:G:391:GLN:CA	2.29	0.41
1:D:540:THR:O	1:D:542:LEU:HG	2.20	0.41
2:H:418:THR:N	2:H:424:LEU:CD2	2.83	0.41
2:J:100:GLN:HB3	2:J:105:GLU:CD	2.41	0.41
1:C:864:SER:HB3	1:C:1116:GLY:O	2.21	0.41
1:D:570:ASP:C	1:D:570:ASP:OD1	2.59	0.41
1:A:843:VAL:CG1	1:A:844:GLU:H	2.30	0.41
1:F:559:ARG:NE	1:F:559:ARG:O	2.46	0.41
1:E:932:VAL:O	1:E:933:ALA:CB	2.45	0.41
1:A:90:ARG:HB3	1:A:107:TRP:CZ2	2.55	0.41
1:A:894:PHE:CZ	1:A:924:GLN:HG3	2.55	0.41
1:A:1131:THR:HG21	1:A:1133:GLU:HB2	2.01	0.41
1:A:189:THR:O	1:A:189:THR:HG23	2.20	0.41
1:C:606:LEU:O	1:C:607:THR:HG22	2.21	0.41
1:A:985:TYR:CD1	1:A:1207:VAL:HG11	2.54	0.41
1:F:98:LEU:HD23	1:F:98:LEU:HA	1.62	0.41
1:C:1057:THR:CG2	1:C:1190:VAL:HG11	2.50	0.41
1:E:339:ARG:O	1:E:395:LEU:HB2	2.21	0.41
1:D:868:HIS:O	1:D:870:THR:N	2.53	0.41
1:B:997:THR:CG2	1:B:998:VAL:N	2.83	0.41
1:B:5:PHE:CZ	1:B:365:GLY:HA3	2.55	0.41
1:A:97:ILE:HA	1:A:151:ILE:HD13	2.01	0.41
1:D:1435:THR:CG2	1:D:1437:SER:CB	2.99	0.41
1:C:622:LEU:HD13	1:C:739:PHE:HZ	1.85	0.41
1:E:1235:ALA:HA	1:E:1239:GLN:OE1	2.21	0.41
1:C:195:LEU:HA	1:C:195:LEU:HD23	1.57	0.41
1:A:1056:LEU:HD23	1:A:1056:LEU:HA	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:359:VAL:HG13	2:G:359:VAL:O	2.20	0.41
2:I:255:LEU:HD22	2:I:255:LEU:HA	1.92	0.41
1:A:832:ARG:HD2	1:A:832:ARG:HH11	1.73	0.41
1:A:1235:ALA:HA	1:A:1239:GLN:OE1	2.21	0.41
1:E:1105:VAL:HG23	2:L:54:PHE:CE1	2.56	0.41
1:A:900:GLY:HA2	1:C:1263:HIS:CE1	2.31	0.41
2:K:113:SER:HB3	2:K:115:HIS:CD2	2.55	0.41
1:D:1222:LEU:N	1:D:1229:MET:HE2	2.34	0.41
1:D:1226:GLY:HA3	1:F:896:PRO:HG3	2.03	0.41
1:A:1229:MET:C	1:E:877:ARG:CG	2.89	0.41
1:B:500:ARG:HD2	1:B:728:ILE:HG21	2.02	0.41
1:F:1222:LEU:HD12	1:F:1222:LEU:O	2.20	0.41
1:F:1221:PRO:CD	1:F:1229:MET:HE1	2.32	0.41
2:L:353:PHE:CD1	2:L:382:VAL:CG1	3.01	0.41
1:E:1425:LYS:HD3	1:E:1447:TRP:CD1	2.56	0.41
1:A:635:ASN:O	1:A:636:LEU:HD13	2.20	0.41
1:C:290:THR:HG21	1:C:292:PRO:HD2	1.81	0.41
2:G:120:ILE:O	2:G:120:ILE:HG22	2.20	0.41
2:G:144:ARG:HD3	2:G:465:HIS:ND1	2.36	0.41
2:G:93:ILE:O	2:G:96:ARG:HG2	2.21	0.41
2:K:181:ARG:HB3	2:K:181:ARG:HH11	1.85	0.41
2:J:288:ALA:CB	2:J:311:GLN:HG3	2.50	0.41
1:A:732:ARG:O	1:A:733:ALA:C	2.59	0.41
2:K:119:THR:O	2:K:123:VAL:HG22	2.21	0.41
2:K:69:LEU:HA	2:K:72:THR:CG2	2.51	0.41
2:H:319:LEU:C	2:H:319:LEU:HD22	2.40	0.41
2:I:119:THR:O	2:I:123:VAL:HG22	2.21	0.41
2:I:432:THR:CG2	2:I:437:VAL:HG13	2.50	0.41
2:I:69:LEU:HA	2:I:72:THR:CG2	2.51	0.41
1:F:410:LEU:N	1:F:410:LEU:HD12	2.36	0.41
2:L:150:VAL:CG2	2:L:151:GLY:N	2.82	0.41
1:B:1230:GLN:O	1:B:1231:LEU:HD23	2.21	0.41
1:C:80:ARG:CG	1:C:80:ARG:O	2.69	0.41
1:C:1009:ILE:O	1:C:1010:ALA:C	2.59	0.41
2:L:316:VAL:HG12	2:L:342:VAL:HG13	2.02	0.41
1:C:1075:THR:HG23	1:C:1076:GLY:N	2.36	0.41
1:F:856:PRO:HG2	1:F:1093:GLY:HA3	2.02	0.41
1:E:464:ILE:CD1	1:E:779:TYR:CZ	2.94	0.41
1:B:570:ASP:C	1:B:570:ASP:OD1	2.59	0.41
1:D:438:GLU:OE2	1:D:553:ALA:HB3	2.20	0.41
1:D:1043:LEU:O	1:D:1044:PRO:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1047:MET:O	1:E:1048:GLY:C	2.56	0.41
1:D:105:TYR:H	1:D:105:TYR:HD1	1.68	0.41
1:A:355:TYR:CZ	1:A:383:GLY:HA3	2.56	0.41
1:E:978:GLU:HG3	1:E:979:ASP:H	1.85	0.41
1:F:1212:ASP:OD1	1:F:1243:GLY:N	2.34	0.41
1:C:573:PHE:CB	1:C:574:PRO:CD	2.96	0.41
1:B:463:LEU:HA	1:B:463:LEU:HD23	1.20	0.41
1:F:647:ALA:HB2	1:F:669:TYR:OH	2.19	0.41
1:D:622:LEU:HA	1:D:622:LEU:HD12	1.59	0.41
1:D:739:PHE:HB3	1:D:740:PRO:HD2	2.03	0.41
1:F:622:LEU:HA	1:F:622:LEU:HD12	1.59	0.41
1:F:1354:THR:HG21	1:F:1427:LEU:HD21	2.03	0.41
1:A:1124:LEU:HA	1:A:1124:LEU:HD12	1.28	0.41
1:B:969:PRO:N	1:B:970:PRO:CD	2.84	0.41
1:F:1462:MET:O	1:F:1466:LEU:HB2	2.21	0.41
1:E:701:ASP:C	1:E:703:GLY:N	2.71	0.41
1:B:660:GLY:HA2	1:B:721:GLY:N	2.33	0.41
1:B:756:LYS:HE2	1:B:1177:HIS:CD2	2.56	0.41
1:B:116:ILE:HD11	1:B:191:PHE:HB2	2.01	0.41
1:A:1218:ASP:OD1	1:E:851:LYS:NZ	2.54	0.41
1:C:228:LEU:HD12	1:C:228:LEU:HA	1.29	0.41
1:B:987:LEU:HD23	1:B:987:LEU:HA	1.80	0.41
1:F:1150:LEU:O	1:F:1153:LEU:N	2.54	0.41
1:E:803:THR:O	1:E:803:THR:CG2	2.62	0.41
1:D:1463:LEU:HD23	1:D:1463:LEU:HA	1.71	0.41
1:D:770:VAL:O	1:D:770:VAL:CG1	2.67	0.41
1:A:391:ILE:CG2	1:A:391:ILE:O	2.63	0.41
1:C:273:ASP:N	1:C:273:ASP:OD1	2.54	0.41
1:D:875:MET:SD	1:D:1139:PHE:CE2	3.14	0.41
1:C:780:ARG:NH2	2:K:54:PHE:HD1	2.16	0.41
1:F:875:MET:SD	1:F:1139:PHE:CE2	3.14	0.41
1:D:1228:LYS:CB	1:F:901:ASP:OD1	2.59	0.41
1:B:1135:VAL:O	1:B:1138:LEU:N	2.54	0.41
1:C:1401:LEU:HD11	1:C:1405:ILE:CD1	2.50	0.41
1:D:1113:CYS:C	1:D:1115:VAL:N	2.69	0.41
2:H:113:SER:HB3	2:H:115:HIS:CD2	2.55	0.41
1:E:706:LYS:NZ	1:E:1034:PRO:HG2	2.36	0.41
1:E:1395:TYR:HD2	1:E:1454:PHE:CE1	2.39	0.41
1:F:1047:MET:HB2	1:F:1048:GLY:H	1.77	0.41
1:E:376:GLU:HG3	1:E:1310:THR:OG1	2.20	0.41
1:F:457:THR:HA	1:F:773:LEU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:145:GLU:O	2:G:171:TYR:CE1	2.74	0.41
2:G:31:ILE:CG1	2:G:193:PHE:HD1	2.34	0.41
2:K:28:PHE:HZ	2:K:285:LEU:HD21	1.83	0.41
2:K:181:ARG:HB3	2:K:181:ARG:CZ	2.51	0.41
1:C:735:VAL:HG23	1:C:735:VAL:H	1.49	0.41
2:J:249:LYS:HD2	2:J:258:ILE:HD13	2.02	0.41
1:E:732:ARG:O	1:E:733:ALA:C	2.59	0.41
2:K:120:ILE:HG22	2:K:120:ILE:O	2.20	0.41
2:K:190:ILE:HB	2:K:195:LEU:HD23	2.03	0.41
2:K:240:THR:HG23	2:K:443:ILE:HG21	2.01	0.41
2:K:63:ASN:CG	2:K:68:TRP:CZ3	2.94	0.41
2:H:353:PHE:N	2:H:369:LEU:HD23	2.36	0.41
2:H:181:ARG:HE	2:H:187:VAL:CG1	2.34	0.41
2:I:119:THR:OG1	2:I:122:SER:HB3	2.21	0.41
2:I:173:VAL:CG2	2:I:174:HIS:N	2.81	0.41
2:J:71:LEU:CD1	2:J:80:ALA:N	2.81	0.41
1:D:999:LYS:CG	1:D:1022:LEU:CD2	2.64	0.41
2:L:119:THR:O	2:L:123:VAL:HG22	2.21	0.41
2:L:469:LYS:HZ2	2:L:476:VAL:HB	1.85	0.41
2:H:120:ILE:HG22	2:H:120:ILE:O	2.20	0.41
2:H:137:VAL:HG12	2:H:139:PRO:HD3	2.03	0.41
2:H:432:THR:CG2	2:H:437:VAL:HG13	2.50	0.41
2:H:449:LEU:HD12	8:H:484:FAD:O2	2.20	0.41
2:H:64:ASN:OD1	2:H:66:PRO:HG2	2.20	0.41
2:H:69:LEU:HA	2:H:72:THR:CG2	2.51	0.41
2:H:93:ILE:O	2:H:96:ARG:HG2	2.21	0.41
2:I:418:THR:CB	2:I:424:LEU:CD1	2.93	0.41
1:A:842:GLU:O	1:A:1156:ARG:HG2	2.21	0.41
1:A:309:THR:HG21	1:A:314:LYS:HG3	2.02	0.41
1:D:1138:LEU:HD12	1:D:1138:LEU:HA	1.66	0.41
1:C:309:THR:HB	1:C:314:LYS:CE	2.51	0.41
1:B:948:LYS:C	1:B:950:THR:H	2.23	0.41
1:E:558:MET:C	1:E:560:ASP:H	2.24	0.41
1:F:248:GLU:C	1:F:250:ARG:N	2.73	0.41
1:B:218:THR:CG2	1:B:221:LEU:H	2.30	0.41
1:F:561:TYR:CD1	1:F:561:TYR:O	2.74	0.41
2:H:197:LYS:CD	2:H:274:GLY:N	2.83	0.41
1:D:56:LYS:CG	1:D:71:LEU:HD22	2.49	0.41
1:C:894:PHE:CD1	1:C:904:ASN:ND2	2.88	0.41
1:C:1131:THR:HG22	1:C:1133:GLU:H	1.81	0.41
2:J:277:VAL:CG1	2:J:278:GLU:N	2.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:978:GLU:HG3	1:C:979:ASP:H	1.85	0.41
1:D:608:ASP:OD2	1:D:646:THR:HA	2.20	0.41
1:F:1427:LEU:O	1:F:1428:ILE:C	2.56	0.41
1:A:339:ARG:O	1:A:395:LEU:HB2	2.21	0.41
1:D:120:LYS:HE2	1:D:120:LYS:HA	2.00	0.41
1:E:1170:GLN:HB2	1:E:1183:LEU:HD12	2.02	0.41
1:A:696:TYR:CZ	1:A:700:ILE:HD11	2.55	0.41
1:F:117:ILE:HG21	1:F:117:ILE:HD12	1.49	0.41
1:F:230:HIS:CE1	1:F:234:ILE:HG13	2.55	0.41
1:B:117:ILE:HD12	1:B:117:ILE:HG21	1.49	0.41
1:B:864:SER:OG	1:B:864:SER:O	2.37	0.41
1:E:273:ASP:OD1	1:E:273:ASP:N	2.54	0.41
1:E:1465:ARG:HB3	1:E:1465:ARG:HE	1.62	0.41
1:C:691:LYS:HG3	1:C:691:LYS:O	2.20	0.41
1:F:661:VAL:HG12	1:F:661:VAL:O	2.21	0.41
1:E:598:ARG:HD3	1:E:598:ARG:HH11	1.72	0.41
1:E:691:LYS:HG3	1:E:691:LYS:O	2.20	0.41
1:E:622:LEU:HD13	1:E:739:PHE:HZ	1.85	0.41
1:E:782:ARG:C	1:E:784:SER:N	2.70	0.41
1:C:443:ASP:OD2	1:C:445:ALA:HB3	2.21	0.41
1:C:763:ALA:O	1:C:764:THR:C	2.58	0.41
1:C:781:PHE:CE2	2:K:57:VAL:CG1	3.04	0.41
1:B:732:ARG:O	1:B:733:ALA:C	2.58	0.41
1:B:1132:PRO:O	1:B:1133:GLU:C	2.56	0.41
1:B:896:PRO:HG3	1:F:1226:GLY:HA3	2.03	0.41
1:E:1230:GLN:C	1:E:1231:LEU:HD23	2.41	0.41
1:A:1374:VAL:HG12	1:A:1375:ILE:H	1.86	0.41
2:L:367:ILE:O	2:L:390:VAL:HG23	2.20	0.41
2:L:322:ARG:O	2:L:346:TRP:CD1	2.74	0.41
1:C:1374:VAL:HG12	1:C:1375:ILE:H	1.86	0.41
1:C:1450:GLU:O	1:C:1451:VAL:C	2.57	0.41
2:J:387:GLU:CG	2:J:388:PHE:N	2.82	0.41
2:I:51:GLY:O	2:I:52:VAL:HG23	2.16	0.41
1:D:783:LYS:H	2:H:56:GLN:HG3	1.86	0.41
2:K:291:HIS:HD2	2:K:392:ALA:HB2	1.84	0.41
1:C:636:LEU:HA	1:C:636:LEU:HD12	1.61	0.41
1:E:292:PRO:O	1:E:293:MET:C	2.55	0.41
1:D:1047:MET:HB2	1:D:1048:GLY:H	1.77	0.41
1:B:458:MET:O	1:B:461:MET:N	2.50	0.41
2:H:292:VAL:HG22	2:H:394:LEU:CD1	2.30	0.41
2:G:137:VAL:HG12	2:G:139:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:425:VAL:HG21	2:G:444:VAL:HG22	2.01	0.41
2:G:186:LEU:HD21	2:G:200:VAL:CB	2.47	0.41
2:G:63:ASN:CG	2:G:68:TRP:CZ3	2.94	0.41
2:G:69:LEU:HA	2:G:72:THR:CG2	2.51	0.41
2:K:249:LYS:HD2	2:K:258:ILE:HD13	2.02	0.41
1:A:745:ARG:C	1:A:746:ILE:HG13	2.40	0.41
2:I:291:HIS:HD2	2:I:392:ALA:HB2	1.84	0.41
2:H:351:GLU:CB	2:H:353:PHE:HB3	2.47	0.41
2:K:144:ARG:HD3	2:K:465:HIS:ND1	2.36	0.41
2:K:212:VAL:H	2:K:212:VAL:HG12	1.49	0.41
2:K:425:VAL:HG21	2:K:444:VAL:HG22	2.01	0.41
1:E:1246:LEU:O	1:E:1249:MET:HB2	2.20	0.41
1:E:1039:LYS:O	1:E:1040:PHE:CD1	2.73	0.41
1:A:1113:CYS:C	1:A:1115:VAL:N	2.71	0.41
2:H:181:ARG:HB3	2:H:181:ARG:CZ	2.51	0.41
2:I:153:ILE:HG22	2:I:237:LEU:O	2.20	0.41
2:I:63:ASN:OD1	2:I:68:TRP:CH2	2.74	0.41
2:J:212:VAL:H	2:J:212:VAL:HG12	1.49	0.41
2:I:200:VAL:HA	2:I:203:ARG:HD2	1.97	0.41
2:J:69:LEU:HA	2:J:72:THR:CG2	2.51	0.41
2:G:353:PHE:N	2:G:369:LEU:HD23	2.36	0.41
2:L:174:HIS:CD2	2:L:176:TYR:CD1	3.08	0.41
2:L:252:GLY:HA3	2:L:258:ILE:HG21	2.02	0.41
2:H:90:PHE:HZ	2:H:160:LEU:CB	2.33	0.41
2:H:31:ILE:CG1	2:H:193:PHE:HD1	2.33	0.41
2:H:212:VAL:HG12	2:H:212:VAL:H	1.49	0.41
2:H:429:THR:HB	2:H:431:MET:HG3	2.02	0.41
2:H:476:VAL:CG2	2:H:477:ALA:N	2.83	0.41
1:F:143:GLN:HE21	1:F:143:GLN:C	2.24	0.41
2:J:406:LEU:CD2	2:J:406:LEU:N	2.82	0.41
1:F:30:HIS:HE2	1:F:31:ARG:HD2	1.86	0.41
1:B:515:ARG:H	1:B:515:ARG:HG3	1.63	0.41
1:D:937:LYS:N	1:D:938:PRO:HD3	2.35	0.41
1:F:504:SER:HB2	1:F:508:ASN:OD1	2.21	0.41
2:K:418:THR:N	2:K:424:LEU:CD2	2.83	0.41
1:A:348:ASN:O	1:A:349:GLY:C	2.58	0.41
2:G:358:VAL:HG22	2:G:365:VAL:HG11	1.99	0.41
1:D:970:PRO:CG	1:D:970:PRO:O	2.68	0.41
1:D:1135:VAL:O	1:D:1138:LEU:N	2.54	0.41
1:A:1009:ILE:O	1:A:1010:ALA:C	2.59	0.41
1:A:1370:GLY:N	1:A:1389:GLY:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:957:ARG:HD2	1:B:965:LEU:HD12	2.02	0.41
1:E:1370:GLY:N	1:E:1389:GLY:O	2.53	0.41
1:B:317:ILE:C	1:B:321:ASN:HD22	2.18	0.41
1:F:695:ASN:O	1:F:696:TYR:C	2.57	0.41
2:I:100:GLN:HB3	2:I:105:GLU:CD	2.41	0.41
2:I:316:VAL:HG12	2:I:342:VAL:HG13	2.02	0.41
2:H:342:VAL:CG1	2:H:343:GLU:N	2.83	0.41
1:E:562:MET:HE1	1:E:605:ILE:HD11	2.01	0.41
1:E:426:LEU:CD2	1:E:543:LEU:CB	2.93	0.41
1:F:918:THR:HG23	1:F:1256:MET:HE2	2.03	0.41
1:D:839:PRO:CG	1:D:842:GLU:OE1	2.69	0.41
1:C:864:SER:HB3	1:C:1117:VAL:O	2.21	0.41
1:E:864:SER:HB3	1:E:1117:VAL:O	2.21	0.41
1:A:386:GLY:H	1:A:389:GLU:CG	2.33	0.41
1:D:559:ARG:HG3	1:D:559:ARG:O	2.17	0.41
1:F:569:ILE:N	1:F:569:ILE:CD1	2.77	0.41
1:A:420:VAL:C	1:A:422:ASN:H	2.23	0.41
1:F:843:VAL:CG1	1:F:844:GLU:H	2.32	0.41
1:B:1143:ALA:O	1:B:1144:GLU:C	2.58	0.41
1:B:240:ASN:HB3	1:B:327:TRP:CH2	2.56	0.41
1:C:320:CYS:O	1:C:322:SER:N	2.54	0.41
1:E:894:PHE:CD1	1:E:904:ASN:ND2	2.88	0.41
1:C:24:ALA:C	1:C:26:LYS:H	2.23	0.41
1:C:894:PHE:CZ	1:C:924:GLN:HG3	2.55	0.41
1:A:978:GLU:HG3	1:A:979:ASP:H	1.85	0.41
1:E:355:TYR:CZ	1:E:383:GLY:HA3	2.56	0.41
1:C:976:SER:O	1:C:979:ASP:N	2.54	0.41
1:B:648:GLU:O	1:B:648:GLU:HG2	2.21	0.41
1:F:1427:LEU:HA	1:F:1427:LEU:HD23	1.94	0.41
1:D:1354:THR:HG21	1:D:1427:LEU:HD21	2.03	0.41
1:E:1057:THR:CG2	1:E:1190:VAL:HG11	2.50	0.41
1:F:1468:VAL:O	1:F:1469:PRO:C	2.57	0.41
1:A:1302:GLY:H	1:A:1333:ALA:C	2.24	0.41
1:F:806:SER:HG	1:F:809:THR:HB	1.86	0.41
1:A:1170:GLN:HB2	1:A:1183:LEU:HD12	2.02	0.41
1:D:1066:ARG:NH1	1:D:1089:GLU:OE2	2.53	0.41
1:A:583:ARG:NE	1:A:587:ARG:NH1	2.68	0.41
1:F:1066:ARG:NH1	1:F:1089:GLU:OE2	2.53	0.41
1:C:97:ILE:HA	1:C:151:ILE:HD13	2.01	0.41
1:B:1435:THR:CG2	1:B:1437:SER:CB	2.99	0.41
1:E:486:ALA:O	1:E:487:VAL:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:833:SER:HB2	1:C:1167:LEU:HD22	2.03	0.41
1:C:803:THR:CG2	1:C:803:THR:O	2.62	0.41
1:A:622:LEU:HD13	1:A:739:PHE:HZ	1.85	0.41
2:L:427:HIS:ND1	2:L:428:ARG:HG3	2.36	0.41
1:A:98:LEU:HA	1:A:98:LEU:HD23	1.82	0.41
1:B:1129:VAL:O	1:B:1129:VAL:HG23	2.19	0.41
1:A:1059:ASN:HD22	1:A:1059:ASN:N	2.19	0.41
1:A:1158:LEU:HD12	1:A:1158:LEU:HA	1.62	0.41
1:E:195:LEU:HD23	1:E:195:LEU:HA	1.57	0.41
1:A:1085:LEU:N	1:A:1085:LEU:HD23	2.36	0.41
1:F:87:GLU:O	1:F:90:ARG:N	2.54	0.41
1:E:476:ILE:CG2	1:E:477:GLY:N	2.83	0.41
1:C:1407:ASP:O	1:C:1409:SER:N	2.53	0.41
1:D:491:LYS:HE2	1:D:785:GLY:HA3	2.02	0.41
1:E:42:ASP:OD1	1:E:212:SER:OG	2.39	0.41
1:F:1282:GLN:HA	1:F:1302:GLY:O	2.20	0.41
2:K:427:HIS:ND1	2:K:428:ARG:HG3	2.36	0.41
1:C:651:ASP:N	1:C:651:ASP:OD1	2.43	0.41
1:A:333:LEU:HA	1:A:333:LEU:HD23	1.85	0.41
1:B:1412:PHE:N	1:B:1412:PHE:CD1	2.88	0.41
1:F:1461:GLU:H	1:F:1461:GLU:HG2	1.64	0.41
1:F:841:ASP:N	1:F:841:ASP:OD1	2.51	0.41
1:D:1412:PHE:CD1	1:D:1412:PHE:N	2.88	0.41
1:B:1295:TYR:N	1:B:1295:TYR:CD1	2.87	0.41
1:A:237:VAL:C	1:A:239:GLY:N	2.73	0.41
2:G:427:HIS:ND1	2:G:428:ARG:HG3	2.36	0.41
1:A:256:PHE:O	1:A:257:GLY:C	2.56	0.41
1:A:443:ASP:OD2	1:A:445:ALA:HB3	2.21	0.41
1:C:479:MET:HG3	1:C:1104:MET:HE1	1.99	0.41
1:B:875:MET:SD	1:B:1139:PHE:CE2	3.14	0.41
1:C:896:PRO:HG2	1:E:1226:GLY:CA	2.26	0.41
2:L:353:PHE:N	2:L:369:LEU:HD23	2.36	0.41
2:I:110:ILE:HG13	2:I:116:GLY:O	2.21	0.41
2:H:110:ILE:HG13	2:H:116:GLY:O	2.21	0.41
1:E:503:PHE:CE2	1:E:938:PRO:HB3	2.56	0.41
1:A:706:LYS:NZ	1:A:1034:PRO:HG2	2.36	0.41
1:A:969:PRO:CD	1:A:970:PRO:CD	2.99	0.41
1:B:787:ARG:HD3	1:B:787:ARG:HH11	1.73	0.41
1:A:505:GLN:NE2	1:A:1000:LEU:HB3	2.35	0.41
1:B:551:THR:OG1	1:B:554:GLU:CG	2.65	0.41
1:F:745:ARG:C	1:F:746:ILE:HG13	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:305:VAL:HG12	2:G:306:ARG:N	2.33	0.41
2:G:71:LEU:CD1	2:G:80:ALA:N	2.81	0.41
1:E:1366:GLU:CG	1:E:1367:TYR:CD2	2.92	0.41
1:A:746:ILE:CG2	1:A:747:SER:N	2.76	0.41
2:I:322:ARG:O	2:I:346:TRP:CD1	2.74	0.41
2:K:31:ILE:CG1	2:K:193:PHE:HD1	2.34	0.41
2:K:476:VAL:CG2	2:K:477:ALA:N	2.83	0.41
2:K:93:ILE:O	2:K:96:ARG:HG2	2.21	0.41
2:I:137:VAL:HG12	2:I:139:PRO:HD3	2.03	0.41
2:I:190:ILE:HB	2:I:195:LEU:HD23	2.03	0.41
2:I:443:ILE:C	2:I:443:ILE:HD12	2.41	0.41
1:C:402:ARG:HD3	1:C:402:ARG:HH11	1.68	0.41
2:H:63:ASN:OD1	2:H:68:TRP:CH2	2.74	0.41
2:H:71:LEU:HD12	2:H:80:ALA:CA	2.49	0.41
2:I:181:ARG:CB	2:I:181:ARG:HH11	2.34	0.41
1:A:240:ASN:O	1:A:241:VAL:C	2.58	0.41
1:D:143:GLN:C	1:D:143:GLN:HE21	2.24	0.41
1:B:390:MET:HG3	1:B:406:LEU:CD2	2.48	0.41
1:D:1318:ASN:HD22	1:D:1318:ASN:N	2.08	0.41
1:C:558:MET:C	1:C:560:ASP:N	2.72	0.41
1:E:1075:THR:HG23	1:E:1076:GLY:N	2.36	0.41
1:E:864:SER:HB3	1:E:1116:GLY:O	2.21	0.41
1:B:839:PRO:CG	1:B:842:GLU:OE1	2.69	0.41
1:B:438:GLU:OE2	1:B:553:ALA:HB3	2.20	0.41
1:B:240:ASN:HB3	1:B:327:TRP:CZ2	2.56	0.41
1:D:240:ASN:HB3	1:D:327:TRP:CZ2	2.56	0.41
1:E:320:CYS:O	1:E:322:SER:N	2.54	0.41
1:B:739:PHE:HB3	1:B:740:PRO:HD2	2.03	0.41
1:F:492:TYR:C	1:F:492:TYR:CD1	2.94	0.41
1:F:1190:VAL:HG12	1:F:1191:ASP:N	2.36	0.41
1:E:362:LEU:HA	1:E:362:LEU:HD12	1.88	0.41
1:C:360:ASP:OD1	1:C:360:ASP:N	2.49	0.41
1:C:1466:LEU:O	1:C:1468:VAL:N	2.53	0.41
2:L:409:ALA:O	2:L:413:PRO:HD3	2.21	0.41
2:I:409:ALA:O	2:I:413:PRO:HD3	2.21	0.41
1:B:1468:VAL:O	1:B:1469:PRO:C	2.57	0.41
1:F:969:PRO:N	1:F:970:PRO:CD	2.84	0.41
1:C:1170:GLN:HB2	1:C:1183:LEU:HD12	2.02	0.41
1:F:226:ARG:N	1:F:278:ASP:OD2	2.53	0.41
1:D:860:MET:HE2	1:D:868:HIS:ND1	2.36	0.41
1:D:756:LYS:HE2	1:D:1177:HIS:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:851:LYS:NZ	1:E:1218:ASP:OD1	2.54	0.41
1:F:575:VAL:HG13	1:F:759:LEU:HD22	2.03	0.41
1:D:928:LEU:HD23	1:D:928:LEU:HA	1.65	0.41
1:A:1463:LEU:HD23	1:A:1463:LEU:HA	1.66	0.41
1:A:1021:ILE:HG21	1:A:1021:ILE:HD13	1.81	0.41
1:A:877:ARG:CG	1:C:1229:MET:C	2.89	0.40
1:C:782:ARG:CZ	2:K:53:PRO:HD3	2.52	0.40
1:B:825:LEU:O	1:B:826:ARG:C	2.59	0.40
1:B:875:MET:O	1:B:877:ARG:N	2.54	0.40
2:I:46:ARG:NH1	2:I:110:ILE:HD12	2.36	0.40
1:F:783:LYS:H	2:I:56:GLN:HG3	1.86	0.40
1:D:782:ARG:NE	2:H:53:PRO:CD	2.81	0.40
1:A:227:MET:HE3	1:A:282:GLU:CA	2.41	0.40
1:B:780:ARG:HH21	2:G:54:PHE:HE1	1.59	0.40
1:E:1440:ALA:O	1:E:1441:ALA:C	2.59	0.40
1:E:1450:GLU:O	1:E:1451:VAL:C	2.57	0.40
2:K:353:PHE:N	2:K:369:LEU:HD23	2.36	0.40
1:F:263:LEU:HA	1:F:263:LEU:HD12	1.11	0.40
1:F:1077:ARG:HG2	1:F:1078:ASP:H	1.86	0.40
1:F:1077:ARG:C	1:F:1079:ILE:N	2.75	0.40
1:F:829:LEU:CD1	1:F:1168:LEU:HD13	2.46	0.40
1:F:829:LEU:HD21	1:F:1183:LEU:HD13	2.04	0.40
1:D:447:LEU:HD21	1:D:674:ALA:N	2.36	0.40
2:G:90:PHE:HZ	2:G:160:LEU:CB	2.33	0.40
2:G:429:THR:HG21	2:G:431:MET:HE2	1.99	0.40
1:E:103:TYR:OH	1:F:1178:LEU:HD13	2.20	0.40
2:K:119:THR:OG1	2:K:122:SER:HB3	2.21	0.40
1:A:1108:CYS:SG	6:A:2476:F3S:S2	3.20	0.40
2:I:96:ARG:CA	2:I:125:LYS:HD2	2.49	0.40
2:I:469:LYS:O	2:I:472:ALA:HB3	2.20	0.40
2:J:96:ARG:CA	2:J:125:LYS:HD2	2.49	0.40
2:J:425:VAL:HG21	2:J:444:VAL:HG22	2.01	0.40
1:C:240:ASN:O	1:C:241:VAL:C	2.58	0.40
2:L:165:GLU:OE2	2:L:458:ARG:HD2	2.22	0.40
2:L:59:CYS:SG	2:L:61:VAL:CG1	3.05	0.40
2:L:181:ARG:HH11	2:L:181:ARG:HB3	1.85	0.40
2:L:181:ARG:HE	2:L:187:VAL:CG1	2.34	0.40
2:H:137:VAL:O	2:H:139:PRO:HD3	2.21	0.40
2:H:97:ILE:CD1	2:H:450:VAL:CG1	2.95	0.40
2:G:418:THR:N	2:G:424:LEU:CD2	2.83	0.40
1:B:143:GLN:C	1:B:143:GLN:HE21	2.24	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:515:ARG:H	1:F:515:ARG:HG3	1.63	0.40
1:C:233:GLU:O	1:C:329:GLY:HA3	2.21	0.40
1:B:504:SER:HB2	1:B:508:ASN:OD1	2.21	0.40
2:K:417:VAL:HG13	2:K:422:THR:N	2.37	0.40
1:A:309:THR:HB	1:A:314:LYS:CE	2.51	0.40
1:D:1077:ARG:HG2	1:D:1078:ASP:H	1.86	0.40
1:E:144:PHE:HD1	1:E:144:PHE:HA	1.68	0.40
2:G:100:GLN:HB3	2:G:105:GLU:CD	2.41	0.40
1:A:864:SER:HB3	1:A:1117:VAL:O	2.21	0.40
2:G:197:LYS:CD	2:G:274:GLY:N	2.83	0.40
2:J:269:ASN:HD22	2:J:273:LEU:HD23	1.85	0.40
1:C:397:SER:O	1:C:398:GLY:C	2.58	0.40
1:D:914:ARG:NH2	1:D:973:ASP:OD1	2.54	0.40
1:E:537:GLU:C	1:E:539:GLN:N	2.74	0.40
1:C:914:ARG:HH22	1:C:973:ASP:CG	2.23	0.40
1:A:1131:THR:CG2	1:A:1133:GLU:HB2	2.52	0.40
1:B:666:VAL:HG13	1:B:667:ASN:N	2.34	0.40
1:E:112:ILE:HA	1:E:191:PHE:O	2.20	0.40
1:E:461:MET:HA	1:E:461:MET:CE	2.51	0.40
1:E:189:THR:HG23	1:E:189:THR:O	2.20	0.40
1:E:606:LEU:O	1:E:607:THR:HG22	2.21	0.40
1:C:30:HIS:CE1	1:C:368:GLU:OE1	2.68	0.40
1:D:1383:PHE:O	1:D:1384:ALA:CB	2.64	0.40
1:F:756:LYS:HE2	1:F:1177:HIS:CD2	2.56	0.40
1:C:856:PRO:C	1:C:883:ASP:HB3	2.41	0.40
1:D:606:LEU:HD23	1:D:606:LEU:HA	1.77	0.40
1:C:304:THR:HG21	1:C:518:ARG:HD2	2.03	0.40
1:A:836:ALA:HB1	1:A:837:PRO:CD	2.52	0.40
1:B:230:HIS:CE1	1:B:234:ILE:HG13	2.55	0.40
1:E:77:PHE:HB3	1:E:126:PRO:CB	2.50	0.40
1:A:775:VAL:H	1:A:775:VAL:HG23	1.67	0.40
1:B:68:ASP:N	1:B:68:ASP:OD1	2.54	0.40
1:C:10:ASP:C	1:C:10:ASP:OD1	2.59	0.40
1:F:770:VAL:CG1	1:F:770:VAL:O	2.67	0.40
1:A:1112:THR:O	2:J:112:GLN:CD	2.60	0.40
1:E:482:ASP:OD2	1:E:790:TRP:N	2.47	0.40
1:F:1139:PHE:O	1:F:1140:THR:C	2.59	0.40
1:F:875:MET:O	1:F:877:ARG:N	2.54	0.40
1:C:877:ARG:CG	1:E:1229:MET:C	2.89	0.40
1:C:877:ARG:HD3	1:E:1230:GLN:CB	2.34	0.40
1:E:1226:GLY:O	1:E:1227:GLU:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1440:ALA:O	1:C:1441:ALA:C	2.59	0.40
1:E:510:PRO:CD	1:E:970:PRO:HB3	2.37	0.40
1:A:503:PHE:CE2	1:A:938:PRO:HB3	2.56	0.40
1:B:783:LYS:H	2:G:56:GLN:HG3	1.86	0.40
2:K:317:LYS:CE	2:K:345:ILE:CG1	2.95	0.40
1:E:1184:ASN:CB	1:E:1185:PRO:CD	2.82	0.40
1:E:290:THR:HG21	1:E:292:PRO:HD2	1.81	0.40
1:F:1135:VAL:O	1:F:1138:LEU:N	2.54	0.40
1:F:825:LEU:O	1:F:826:ARG:C	2.59	0.40
1:D:829:LEU:HD21	1:D:1183:LEU:HD13	2.03	0.40
1:D:732:ARG:O	1:D:733:ALA:C	2.59	0.40
1:D:732:ARG:N	1:D:747:SER:HA	2.37	0.40
2:G:119:THR:O	2:G:123:VAL:HG22	2.21	0.40
2:G:429:THR:HB	2:G:431:MET:HG3	2.02	0.40
2:K:257:ASN:HD21	2:K:394:LEU:HA	1.85	0.40
1:E:55:PHE:O	1:E:58:HIS:HB3	2.22	0.40
2:J:292:VAL:HG21	2:J:394:LEU:HD13	1.97	0.40
1:E:842:GLU:HG2	1:E:1156:ARG:HD3	2.04	0.40
2:H:322:ARG:CG	2:H:323:ASP:H	2.21	0.40
2:I:93:ILE:O	2:I:96:ARG:HG2	2.21	0.40
2:G:322:ARG:O	2:G:346:TRP:CD1	2.74	0.40
2:L:137:VAL:HG12	2:L:139:PRO:HD3	2.03	0.40
2:L:69:LEU:HA	2:L:72:THR:CG2	2.51	0.40
2:L:26:GLN:HG3	2:L:310:ARG:O	2.20	0.40
2:L:181:ARG:CZ	2:L:181:ARG:HB3	2.51	0.40
2:H:162:ALA:HB3	2:H:237:LEU:CD1	2.49	0.40
1:C:842:GLU:O	1:C:1156:ARG:HG2	2.21	0.40
1:B:406:LEU:O	1:B:409:HIS:HB3	2.22	0.40
1:C:930:ILE:CD1	1:C:983:LEU:HD13	2.43	0.40
1:B:525:ARG:HG2	1:B:542:LEU:CD1	2.47	0.40
1:F:1062:ARG:NH2	1:F:1088:GLU:OE2	2.54	0.40
1:B:317:ILE:HG22	1:B:321:ASN:ND2	2.27	0.40
1:D:588:ARG:HD3	1:D:588:ARG:HH11	1.68	0.40
1:B:80:ARG:O	1:B:80:ARG:HG3	2.21	0.40
1:C:6:ILE:HB	1:C:205:ALA:HB3	2.03	0.40
1:D:1116:GLY:HA3	1:D:1128:PHE:HB2	2.04	0.40
2:K:197:LYS:CB	2:K:273:LEU:HG	2.48	0.40
1:C:528:ASN:O	1:C:529:LEU:HD23	2.21	0.40
1:A:528:ASN:O	1:A:529:LEU:HD23	2.22	0.40
1:C:1413:GLN:OE1	1:C:1470:VAL:HG13	2.22	0.40
1:A:595:ASP:O	1:A:596:ALA:O	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:355:TYR:CZ	1:C:383:GLY:HA3	2.56	0.40
1:C:1460:LYS:O	1:C:1461:GLU:C	2.55	0.40
1:F:1335:LYS:HA	1:F:1354:THR:O	2.21	0.40
1:B:969:PRO:HD2	1:B:970:PRO:CD	2.52	0.40
1:E:696:TYR:CZ	1:E:700:ILE:HD11	2.55	0.40
1:B:144:PHE:HD1	1:B:144:PHE:HA	1.71	0.40
1:D:25:LEU:HA	1:D:25:LEU:HD23	1.85	0.40
1:D:116:ILE:HG21	1:D:190:THR:HG21	2.03	0.40
1:C:804:ASN:O	1:C:805:ASP:CB	2.69	0.40
1:E:855:THR:O	1:E:855:THR:CG2	2.69	0.40
1:F:5:PHE:CZ	1:F:365:GLY:HA3	2.56	0.40
1:F:354:ARG:HD2	1:F:354:ARG:HH11	1.68	0.40
1:B:1375:ILE:HD13	1:B:1375:ILE:HG21	1.63	0.40
1:F:345:MET:HB2	1:F:345:MET:HE2	1.71	0.40
1:C:286:ARG:HA	1:C:286:ARG:HD3	1.60	0.40
1:D:819:LYS:HA	1:D:819:LYS:HD3	1.60	0.40
1:F:206:ILE:HG21	1:F:206:ILE:HD13	1.76	0.40
1:B:87:GLU:O	1:B:90:ARG:N	2.54	0.40
1:A:442:MET:HB3	1:A:442:MET:HE3	1.67	0.40
2:J:46:ARG:NH1	2:J:110:ILE:HD12	2.36	0.40
2:K:46:ARG:NH1	2:K:110:ILE:HD12	2.36	0.40
1:C:1430:GLU:O	1:C:1431:HIS:C	2.58	0.40
2:J:319:LEU:HD22	2:J:320:TYR:N	2.36	0.40
1:E:705:LEU:HA	1:E:705:LEU:HD22	1.90	0.40
1:E:969:PRO:CD	1:E:970:PRO:CD	2.99	0.40
1:C:969:PRO:CD	1:C:970:PRO:CD	2.99	0.40
2:G:46:ARG:NH1	2:G:110:ILE:HD12	2.36	0.40
1:E:1374:VAL:HG12	1:E:1375:ILE:H	1.86	0.40
1:C:149:TYR:HE2	1:C:263:LEU:HD21	1.86	0.40
1:A:248:GLU:O	1:A:249:THR:C	2.56	0.40
1:A:555:PHE:CD1	1:A:556:ARG:N	2.89	0.40
1:C:376:GLU:HG3	1:C:1310:THR:OG1	2.21	0.40
2:H:28:PHE:HZ	2:H:285:LEU:HD21	1.83	0.40
2:G:132:TRP:HA	2:G:202:ARG:HH11	1.82	0.40
2:G:190:ILE:HB	2:G:195:LEU:HD23	2.03	0.40
2:G:306:ARG:HD3	2:G:336:HIS:CB	2.45	0.40
1:C:55:PHE:O	1:C:58:HIS:HB3	2.22	0.40
1:A:103:TYR:OH	1:B:1178:LEU:HD13	2.20	0.40
1:E:731:SER:HA	1:E:747:SER:HA	2.04	0.40
2:I:295:LEU:HD21	2:I:319:LEU:HD13	1.99	0.40
2:I:351:GLU:OE1	2:I:353:PHE:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:137:VAL:O	2:K:139:PRO:HD3	2.21	0.40
2:K:145:GLU:O	2:K:171:TYR:CE1	2.74	0.40
2:K:169:LYS:HZ3	2:K:461:ALA:HB1	1.86	0.40
2:K:71:LEU:HD11	2:K:76:ARG:C	2.41	0.40
2:H:317:LYS:CE	2:H:345:ILE:CG1	2.95	0.40
2:H:181:ARG:CB	2:H:181:ARG:HH11	2.34	0.40
2:I:145:GLU:O	2:I:171:TYR:CE1	2.74	0.40
2:I:150:VAL:CG2	2:I:151:GLY:N	2.82	0.40
2:I:152:VAL:CG2	2:I:153:ILE:N	2.82	0.40
2:I:175:VAL:CG1	2:I:214:TYR:CD2	2.94	0.40
2:J:119:THR:O	2:J:123:VAL:HG22	2.21	0.40
2:I:292:VAL:HG21	2:I:394:LEU:HD13	1.97	0.40
2:G:319:LEU:HD22	2:G:320:TYR:N	2.36	0.40
2:L:190:ILE:HB	2:L:195:LEU:HD23	2.03	0.40
2:L:71:LEU:HD12	2:L:80:ALA:CA	2.49	0.40
2:L:288:ALA:HB1	2:L:394:LEU:HD12	2.04	0.40
2:I:181:ARG:HE	2:I:187:VAL:CG1	2.34	0.40
1:B:937:LYS:N	1:B:938:PRO:HD3	2.35	0.40
1:A:1210:THR:O	1:A:1211:LEU:C	2.60	0.40
2:J:418:THR:N	2:J:424:LEU:CD2	2.83	0.40
2:H:417:VAL:CG1	2:H:418:THR:N	2.83	0.40
1:D:969:PRO:HD2	1:D:970:PRO:CD	2.52	0.40
1:E:80:ARG:CG	1:E:80:ARG:O	2.69	0.40
1:A:284:MET:CE	1:A:294:VAL:HG13	2.50	0.40
1:B:965:LEU:HD23	1:B:965:LEU:HA	1.69	0.40
1:F:313:HIS:CD2	1:F:313:HIS:N	2.89	0.40
1:D:313:HIS:N	1:D:313:HIS:CD2	2.89	0.40
1:D:918:THR:HG23	1:D:1256:MET:HE2	2.02	0.40
1:F:80:ARG:HG3	1:F:80:ARG:O	2.21	0.40
1:B:56:LYS:CG	1:B:71:LEU:HD22	2.49	0.40
1:A:320:CYS:O	1:A:322:SER:N	2.54	0.40
1:E:78:LEU:CD1	1:E:129:GLU:HG3	2.52	0.40
1:F:1043:LEU:O	1:F:1044:PRO:C	2.58	0.40
1:A:461:MET:HA	1:A:461:MET:CE	2.51	0.40
1:E:976:SER:O	1:E:979:ASP:N	2.54	0.40
1:A:1289:MET:CE	1:A:1289:MET:N	2.76	0.40
1:E:929:GLU:HA	1:E:997:THR:HB	2.01	0.40
1:D:92:ILE:O	1:D:93:VAL:C	2.59	0.40
1:B:1190:VAL:HG12	1:B:1191:ASP:N	2.36	0.40
1:E:347:ARG:HH11	1:E:347:ARG:CB	2.34	0.40
1:E:1302:GLY:H	1:E:1333:ALA:C	2.24	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:660:GLY:HA2	1:F:721:GLY:N	2.33	0.40
1:F:89:CYS:SG	1:F:164:ILE:HG21	2.62	0.40
1:D:330:PRO:HA	1:D:350:LEU:HB2	2.03	0.40
1:A:855:THR:CG2	1:A:855:THR:O	2.69	0.40
1:F:864:SER:O	1:F:864:SER:OG	2.37	0.40
1:E:225:PHE:HB3	1:E:278:ASP:CG	2.42	0.40
1:A:1153:LEU:HA	1:A:1153:LEU:HD23	1.85	0.40
1:A:184:LEU:HA	1:A:184:LEU:HD12	1.91	0.40
1:E:803:THR:O	1:E:803:THR:HG22	2.08	0.40
1:D:87:GLU:O	1:D:90:ARG:N	2.54	0.40
1:D:9:ILE:HG21	1:D:9:ILE:HD13	1.59	0.40
2:H:427:HIS:ND1	2:H:428:ARG:HG3	2.36	0.40
1:A:1105:VAL:HG23	2:J:54:PHE:CE1	2.56	0.40
1:C:1101:GLY:O	1:C:1102:CYS:C	2.57	0.40
1:C:442:MET:HB2	1:C:673:GLU:OE2	2.22	0.40
1:C:492:TYR:CD2	1:C:761:GLN:HG2	2.56	0.40
1:D:1260:GLN:CD	1:F:899:ASN:HA	2.42	0.40
1:A:1440:ALA:O	1:A:1441:ALA:C	2.59	0.40
2:L:291:HIS:HD2	2:L:392:ALA:HB2	1.84	0.40
1:C:1421:GLU:HG2	1:C:1421:GLU:O	2.21	0.40
1:C:1395:TYR:HD2	1:C:1454:PHE:CE1	2.39	0.40
2:J:351:GLU:OE1	2:J:353:PHE:HB3	2.22	0.40
1:C:503:PHE:CE2	1:C:938:PRO:HB3	2.56	0.40
1:B:787:ARG:HH12	1:B:821:PRO:CB	2.34	0.40
2:K:387:GLU:CG	2:K:388:PHE:N	2.82	0.40
1:B:263:LEU:N	1:B:263:LEU:CD1	2.73	0.40
1:D:551:THR:OG1	1:D:554:GLU:CG	2.65	0.40
2:G:165:GLU:OE2	2:G:458:ARG:HD2	2.22	0.40
2:G:63:ASN:OD1	2:G:68:TRP:CH2	2.74	0.40
2:K:181:ARG:HE	2:K:187:VAL:CG1	2.34	0.40
1:E:1108:CYS:SG	6:E:2476:F3S:S2	3.20	0.40
1:E:1113:CYS:SG	6:E:2476:F3S:S1	3.19	0.40
2:J:177:ASP:OD2	2:J:182:MET:HE3	2.21	0.40
2:J:181:ARG:HE	2:J:187:VAL:CG1	2.34	0.40
2:K:152:VAL:CG2	2:K:153:ILE:N	2.82	0.40
2:K:306:ARG:HG2	2:K:340:GLU:HG3	2.04	0.40
2:H:319:LEU:HD22	2:H:320:TYR:N	2.36	0.40
2:I:447:ALA:CB	2:I:452:TRP:CE3	2.92	0.40
2:J:165:GLU:OE2	2:J:458:ARG:HD2	2.22	0.40
2:G:291:HIS:HD2	2:G:392:ALA:HB2	1.84	0.40
2:G:288:ALA:HB1	2:G:394:LEU:HD12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:137:VAL:O	2:L:139:PRO:HD3	2.21	0.40
2:L:145:GLU:O	2:L:171:TYR:CE1	2.74	0.40
2:H:119:THR:OG1	2:H:122:SER:HB3	2.21	0.40
1:C:842:GLU:HG2	1:C:1156:ARG:HD3	2.04	0.40
2:L:417:VAL:HG13	2:L:422:THR:N	2.37	0.40
1:D:406:LEU:O	1:D:409:HIS:HB3	2.21	0.40
1:C:1210:THR:O	1:C:1211:LEU:C	2.60	0.40
1:C:1211:LEU:HG	1:C:1215:ILE:HD11	2.04	0.40
1:E:1009:ILE:O	1:E:1010:ALA:C	2.59	0.40
2:H:100:GLN:HB3	2:H:105:GLU:CD	2.41	0.40
1:D:249:THR:O	1:D:249:THR:CG2	2.55	0.40
1:C:559:ARG:HD2	1:C:605:ILE:HD13	2.03	0.40
2:J:342:VAL:CG1	2:J:343:GLU:N	2.83	0.40
1:C:843:VAL:CG1	1:C:844:GLU:H	2.30	0.40
1:C:390:MET:HG3	1:C:406:LEU:HD23	2.02	0.40
1:B:1143:ALA:O	1:B:1147:ARG:HG3	2.20	0.40
1:F:240:ASN:HB3	1:F:327:TRP:CZ2	2.56	0.40
1:D:240:ASN:HB3	1:D:327:TRP:CH2	2.56	0.40
1:C:318:GLN:O	1:C:322:SER:OG	2.39	0.40
1:F:1164:ARG:CB	1:F:1167:LEU:HD12	2.51	0.40
1:B:98:LEU:HD23	1:B:98:LEU:HA	1.62	0.40
1:C:347:ARG:HH11	1:C:347:ARG:CB	2.34	0.40
1:A:347:ARG:CB	1:A:347:ARG:HH11	2.34	0.40
1:C:1282:GLN:CB	1:C:1302:GLY:O	2.70	0.40
1:A:1301:SER:O	1:A:1301:SER:OG	2.37	0.40
1:C:695:ASN:O	1:C:698:LYS:N	2.53	0.40
1:F:152:ARG:HH11	1:F:152:ARG:HD3	1.71	0.40
1:B:325:GLU:HA	1:B:326:PRO:HD3	1.92	0.40
1:E:233:GLU:O	1:E:329:GLY:HA3	2.21	0.40
1:C:1285:LYS:HG3	1:C:1304:THR:HB	2.04	0.40
1:B:116:ILE:HG21	1:B:190:THR:HG21	2.03	0.40
1:A:813:TYR:CG	1:A:814:SER:N	2.90	0.40
1:E:587:ARG:O	1:E:590:ARG:CB	2.70	0.40
1:C:225:PHE:HB3	1:C:278:ASP:CG	2.42	0.40
1:F:935:GLY:HA3	1:F:1025:GLY:O	2.22	0.40
1:B:931:LYS:HG2	1:B:931:LYS:O	2.21	0.40
1:D:68:ASP:N	1:D:68:ASP:OD1	2.54	0.40
1:B:898:LYS:HD3	1:B:898:LYS:H	1.86	0.40
1:D:898:LYS:H	1:D:898:LYS:HD3	1.86	0.40
1:D:53:LYS:O	1:D:54:PHE:C	2.58	0.40
1:F:49:ALA:O	1:F:50:VAL:C	2.58	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:492:TYR:CD2	1:A:761:GLN:HG2	2.56	0.40
1:E:443:ASP:OD2	1:E:445:ALA:HB3	2.21	0.40
1:E:492:TYR:CD2	1:E:761:GLN:HG2	2.57	0.40
1:E:447:LEU:CD1	1:E:670:LEU:HD21	2.43	0.40
1:E:782:ARG:N	2:L:52:VAL:CB	2.84	0.40
1:A:902:ASN:OD1	1:A:902:ASN:C	2.60	0.40
1:C:1105:VAL:HG23	2:K:54:PHE:CE1	2.56	0.40
1:F:875:MET:HE3	1:F:880:ALA:HB3	2.03	0.40
1:B:1047:MET:HB2	1:B:1048:GLY:H	1.77	0.40
2:L:319:LEU:HD22	2:L:320:TYR:N	2.36	0.40
2:J:353:PHE:CE1	2:J:370:GLY:C	2.95	0.40
2:I:110:ILE:HD11	2:I:118:VAL:HG13	2.00	0.40
1:E:501:GLN:OE1	1:E:710:LYS:NZ	2.47	0.40
1:A:250:ARG:HH21	1:A:639:PHE:HE1	1.63	0.40
1:C:289:ARG:HD3	1:C:293:MET:HE2	2.04	0.40
1:D:829:LEU:CD1	1:D:1168:LEU:HD13	2.46	0.40
2:H:292:VAL:HG21	2:H:394:LEU:HD13	1.97	0.40
2:G:218:PHE:CD2	2:G:223:ASP:OD2	2.74	0.40
2:G:450:VAL:HG13	2:G:451:VAL:H	1.87	0.40
2:K:256:GLY:O	2:K:257:ASN:CB	2.67	0.40
2:K:181:ARG:CB	2:K:181:ARG:HH11	2.34	0.40
2:H:181:ARG:HB3	2:H:181:ARG:HH11	1.85	0.40
2:I:165:GLU:OE2	2:I:458:ARG:HD2	2.22	0.40
2:J:119:THR:OG1	2:J:122:SER:HB3	2.21	0.40
2:J:145:GLU:O	2:J:171:TYR:CE1	2.74	0.40
2:J:306:ARG:HG2	2:J:340:GLU:HG3	2.04	0.40
2:J:432:THR:CG2	2:J:437:VAL:HG13	2.50	0.40
2:J:63:ASN:OD1	2:J:68:TRP:CH2	2.74	0.40
2:G:322:ARG:O	2:G:346:TRP:HD1	2.05	0.40
2:L:93:ILE:O	2:L:96:ARG:HG2	2.21	0.40
1:E:1458:VAL:CG1	1:E:1459:PRO:HD2	2.47	0.40
1:A:842:GLU:HG2	1:A:1156:ARG:HD3	2.04	0.40
1:C:144:PHE:HA	1:C:144:PHE:HD1	1.68	0.40
1:B:1062:ARG:NH2	1:B:1088:GLU:OE2	2.54	0.40
1:C:558:MET:C	1:C:560:ASP:H	2.24	0.40
1:D:918:THR:CG2	1:D:1256:MET:HE2	2.51	0.40
1:A:864:SER:HB3	1:A:1116:GLY:O	2.21	0.40
1:F:570:ASP:C	1:F:570:ASP:OD1	2.59	0.40
1:F:588:ARG:HH11	1:F:588:ARG:HD3	1.68	0.40
1:A:537:GLU:C	1:A:539:GLN:N	2.74	0.40
1:B:1116:GLY:HA3	1:B:1128:PHE:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1143:ALA:O	1:D:1144:GLU:C	2.58	0.40
1:F:1143:ALA:O	1:F:1144:GLU:C	2.58	0.40
1:A:860:MET:HE2	1:A:893:ARG:HH12	1.87	0.40
1:F:621:ILE:HG12	1:F:657:VAL:HG12	2.03	0.40
1:F:656:ALA:O	1:F:657:VAL:C	2.59	0.40
1:A:1413:GLN:OE1	1:A:1470:VAL:HG13	2.22	0.40
1:B:621:ILE:HG12	1:B:657:VAL:HG12	2.04	0.40
2:H:277:VAL:CG1	2:H:278:GLU:N	2.81	0.40
1:F:739:PHE:HB3	1:F:740:PRO:HD2	2.03	0.40
1:F:1354:THR:HA	1:F:1372:THR:O	2.21	0.40
1:D:1335:LYS:HA	1:D:1354:THR:O	2.21	0.40
1:B:611:MET:HE3	1:B:611:MET:HB3	1.64	0.40
1:F:412:THR:CG2	1:F:412:THR:O	2.68	0.40
1:B:148:LEU:HD23	1:B:148:LEU:HA	1.91	0.40
1:F:1161:VAL:O	1:F:1161:VAL:HG12	2.21	0.40
1:D:325:GLU:HA	1:D:326:PRO:HD3	1.92	0.40
1:A:1321:THR:HA	1:A:1341:GLN:HB2	2.04	0.40
1:D:5:PHE:CZ	1:D:365:GLY:HA3	2.55	0.40
1:A:225:PHE:HB3	1:A:278:ASP:CG	2.42	0.40
1:E:485:ILE:O	1:E:486:ALA:C	2.60	0.40
1:C:485:ILE:O	1:C:486:ALA:C	2.60	0.40
1:E:198:GLU:H	1:E:198:GLU:HG3	1.72	0.40
1:C:1252:ARG:HH11	1:C:1252:ARG:HD3	1.66	0.40
1:D:736:ALA:O	1:D:737:GLU:C	2.58	0.40
1:E:836:ALA:HB1	1:E:837:PRO:CD	2.52	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	1470/1472 (100%)	1174 (80%)	231 (16%)	65 (4%)	<b>3</b> 33

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	1470/1472 (100%)	1191 (81%)	215 (15%)	64 (4%)	3	33
1	C	1470/1472 (100%)	1175 (80%)	230 (16%)	65 (4%)	3	33
1	D	1470/1472 (100%)	1191 (81%)	215 (15%)	64 (4%)	3	33
1	E	1470/1472 (100%)	1174 (80%)	231 (16%)	65 (4%)	3	33
1	F	1470/1472 (100%)	1192 (81%)	214 (15%)	64 (4%)	3	33
2	G	454/456 (100%)	419 (92%)	25 (6%)	10 (2%)	8	49
2	H	454/456 (100%)	420 (92%)	24 (5%)	10 (2%)	8	49
2	I	454/456 (100%)	420 (92%)	24 (5%)	10 (2%)	8	49
2	J	454/456 (100%)	419 (92%)	25 (6%)	10 (2%)	8	49
2	K	454/456 (100%)	420 (92%)	24 (5%)	10 (2%)	8	49
2	L	454/456 (100%)	420 (92%)	24 (5%)	10 (2%)	8	49
All	All	11544/11568 (100%)	9615 (83%)	1482 (13%)	447 (4%)	7	36

All (447) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	25	LEU
1	A	444	LYS
1	A	451	GLN
1	A	705	LEU
1	A	712	GLY
1	A	950	THR
1	A	1062	ARG
1	A	1227	GLU
1	A	1339	ALA
1	A	1375	ILE
1	A	1388	THR
1	A	1394	VAL
1	A	1408	GLU
1	A	1461	GLU
1	A	1467	GLU
1	B	249	THR
1	B	255	ALA
1	B	418	LYS
1	B	561	TYR
1	B	705	LEU
1	B	740	PRO
1	B	950	THR

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Mol	Chain	Res	Type
1	B	1164	ARG
1	B	1467	GLU
1	C	25	LEU
1	C	444	LYS
1	C	451	GLN
1	C	705	LEU
1	C	712	GLY
1	C	950	THR
1	C	1062	ARG
1	C	1227	GLU
1	C	1339	ALA
1	C	1375	ILE
1	C	1388	THR
1	C	1394	VAL
1	C	1408	GLU
1	C	1461	GLU
1	C	1467	GLU
1	D	249	THR
1	D	255	ALA
1	D	418	LYS
1	D	561	TYR
1	D	705	LEU
1	D	740	PRO
1	D	950	THR
1	D	1164	ARG
1	D	1467	GLU
1	E	25	LEU
1	E	444	LYS
1	E	451	GLN
1	E	705	LEU
1	E	712	GLY
1	E	950	THR
1	E	1062	ARG
1	E	1227	GLU
1	E	1339	ALA
1	E	1375	ILE
1	E	1388	THR
1	E	1394	VAL
1	E	1408	GLU
1	E	1461	GLU
1	E	1467	GLU
1	F	249	THR

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Mol	Chain	Res	Type
1	F	255	ALA
1	F	418	LYS
1	F	561	TYR
1	F	705	LEU
1	F	740	PRO
1	F	950	THR
1	F	1164	ARG
1	F	1467	GLU
2	G	27	ASP
2	G	232	LYS
2	G	257	ASN
2	G	478	VAL
2	H	27	ASP
2	H	232	LYS
2	H	257	ASN
2	H	478	VAL
2	I	27	ASP
2	I	232	LYS
2	I	257	ASN
2	I	478	VAL
2	J	27	ASP
2	J	232	LYS
2	J	257	ASN
2	J	478	VAL
2	K	27	ASP
2	K	232	LYS
2	K	257	ASN
2	K	478	VAL
2	L	27	ASP
2	L	232	LYS
2	L	257	ASN
2	L	478	VAL
1	A	53	LYS
1	A	249	THR
1	A	370	GLY
1	A	561	TYR
1	A	599	GLY
1	A	663	ALA
1	A	709	SER
1	A	745	ARG
1	A	939	GLY
1	A	1042	GLY

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Mol	Chain	Res	Type
1	A	1160	GLU
1	A	1164	ARG
1	A	1317	THR
1	A	1376	LEU
1	A	1439	PHE
1	A	1454	PHE
1	A	1460	LYS
1	B	25	LEU
1	B	421	GLN
1	B	444	LYS
1	B	451	GLN
1	B	562	MET
1	B	577	GLY
1	B	610	ALA
1	B	747	SER
1	B	764	THR
1	B	868	HIS
1	B	884	SER
1	B	886	GLU
1	B	1160	GLU
1	B	1381	ASP
1	B	1408	GLU
1	B	1421	GLU
1	B	1432	VAL
1	B	1433	THR
1	B	1452	THR
1	B	1461	GLU
1	C	53	LYS
1	C	249	THR
1	C	370	GLY
1	C	561	TYR
1	C	599	GLY
1	C	663	ALA
1	C	709	SER
1	C	745	ARG
1	C	939	GLY
1	C	1042	GLY
1	C	1160	GLU
1	C	1164	ARG
1	C	1317	THR
1	C	1376	LEU
1	C	1439	PHE

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Mol	Chain	Res	Type
1	C	1454	PHE
1	C	1460	LYS
1	D	25	LEU
1	D	421	GLN
1	D	444	LYS
1	D	451	GLN
1	D	562	MET
1	D	577	GLY
1	D	610	ALA
1	D	747	SER
1	D	764	THR
1	D	868	HIS
1	D	884	SER
1	D	886	GLU
1	D	1160	GLU
1	D	1381	ASP
1	D	1408	GLU
1	D	1421	GLU
1	D	1432	VAL
1	D	1433	THR
1	D	1452	THR
1	D	1461	GLU
1	E	53	LYS
1	E	249	THR
1	E	370	GLY
1	E	561	TYR
1	E	599	GLY
1	E	663	ALA
1	E	709	SER
1	E	745	ARG
1	E	939	GLY
1	E	1042	GLY
1	E	1160	GLU
1	E	1164	ARG
1	E	1317	THR
1	E	1376	LEU
1	E	1439	PHE
1	E	1454	PHE
1	E	1460	LYS
1	F	25	LEU
1	F	421	GLN
1	F	444	LYS

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Mol	Chain	Res	Type
1	F	451	GLN
1	F	562	MET
1	F	577	GLY
1	F	610	ALA
1	F	747	SER
1	F	764	THR
1	F	868	HIS
1	F	884	SER
1	F	886	GLU
1	F	1160	GLU
1	F	1381	ASP
1	F	1408	GLU
1	F	1421	GLU
1	F	1432	VAL
1	F	1433	THR
1	F	1452	THR
1	F	1461	GLU
2	G	284	SER
2	H	284	SER
2	I	284	SER
2	J	284	SER
2	K	284	SER
2	L	284	SER
1	A	24	ALA
1	A	54	PHE
1	A	245	LYS
1	A	377	THR
1	A	432	THR
1	A	433	ALA
1	A	629	THR
1	A	740	PRO
1	A	974	ILE
1	A	1361	GLY
1	A	1381	ASP
1	A	1407	ASP
1	A	1438	ARG
1	B	663	ALA
1	B	721	GLY
1	B	745	ARG
1	B	869	GLY
1	B	1062	ARG
1	B	1071	GLY

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Mol	Chain	Res	Type
1	B	1114	PRO
1	B	1142	LEU
1	B	1172	SER
1	B	1339	ALA
1	B	1438	ARG
1	B	1439	PHE
1	C	24	ALA
1	C	54	PHE
1	C	245	LYS
1	C	377	THR
1	C	432	THR
1	C	433	ALA
1	C	629	THR
1	C	740	PRO
1	C	974	ILE
1	C	1361	GLY
1	C	1381	ASP
1	C	1407	ASP
1	C	1438	ARG
1	D	663	ALA
1	D	721	GLY
1	D	745	ARG
1	D	869	GLY
1	D	1062	ARG
1	D	1071	GLY
1	D	1114	PRO
1	D	1142	LEU
1	D	1172	SER
1	D	1339	ALA
1	D	1438	ARG
1	D	1439	PHE
1	E	24	ALA
1	E	54	PHE
1	E	245	LYS
1	E	377	THR
1	E	432	THR
1	E	433	ALA
1	E	629	THR
1	E	740	PRO
1	E	974	ILE
1	E	1361	GLY
1	E	1381	ASP

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Mol	Chain	Res	Type
1	E	1407	ASP
1	E	1438	ARG
1	F	663	ALA
1	F	721	GLY
1	F	745	ARG
1	F	869	GLY
1	F	1062	ARG
1	F	1071	GLY
1	F	1114	PRO
1	F	1142	LEU
1	F	1172	SER
1	F	1339	ALA
1	F	1438	ARG
1	F	1439	PHE
2	G	290	LYS
2	H	290	LYS
2	I	290	LYS
2	J	290	LYS
2	K	290	LYS
2	L	290	LYS
1	A	208	HIS
1	A	421	GLN
1	A	450	ARG
1	A	492	TYR
1	A	553	ALA
1	A	844	GLU
1	A	915	PHE
1	B	326	PRO
1	B	475	ALA
1	B	496	HIS
1	B	856	PRO
1	B	974	ILE
1	B	1376	LEU
1	B	1407	ASP
1	B	1424	LEU
1	C	208	HIS
1	C	421	GLN
1	C	450	ARG
1	C	492	TYR
1	C	553	ALA
1	C	844	GLU
1	C	915	PHE

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Mol	Chain	Res	Type
1	D	326	PRO
1	D	475	ALA
1	D	496	HIS
1	D	856	PRO
1	D	974	ILE
1	D	1376	LEU
1	D	1407	ASP
1	D	1424	LEU
1	E	208	HIS
1	E	421	GLN
1	E	450	ARG
1	E	492	TYR
1	E	553	ALA
1	E	844	GLU
1	E	915	PHE
1	F	326	PRO
1	F	475	ALA
1	F	496	HIS
1	F	856	PRO
1	F	974	ILE
1	F	1376	LEU
1	F	1407	ASP
1	F	1424	LEU
2	G	348	ALA
2	G	446	GLY
2	H	348	ALA
2	H	446	GLY
2	I	348	ALA
2	I	446	GLY
2	J	348	ALA
2	J	446	GLY
2	K	348	ALA
2	K	446	GLY
2	L	348	ALA
2	L	446	GLY
1	A	69	ASN
1	A	521	SER
1	A	654	TYR
1	A	962	GLY
1	A	1395	TYR
1	B	254	PRO
1	B	388	GLY

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Mol	Chain	Res	Type
1	B	450	ARG
1	B	559	ARG
1	C	69	ASN
1	C	521	SER
1	C	654	TYR
1	C	962	GLY
1	C	1395	TYR
1	D	254	PRO
1	D	388	GLY
1	D	450	ARG
1	D	559	ARG
1	E	69	ASN
1	E	521	SER
1	E	654	TYR
1	E	962	GLY
1	E	1395	TYR
1	F	254	PRO
1	F	388	GLY
1	F	450	ARG
1	F	559	ARG
1	A	217	PRO
1	B	290	THR
1	B	619	PRO
1	B	780	ARG
1	B	1078	ASP
1	C	217	PRO
1	D	290	THR
1	D	619	PRO
1	D	780	ARG
1	D	1078	ASP
1	E	217	PRO
1	F	290	THR
1	F	619	PRO
1	F	780	ARG
1	F	1078	ASP
2	G	362	VAL
2	H	362	VAL
2	I	362	VAL
2	J	362	VAL
2	K	362	VAL
2	L	362	VAL
1	A	707	ILE

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Mol	Chain	Res	Type
1	A	1185	PRO
1	B	61	VAL
1	C	707	ILE
1	C	1185	PRO
1	D	61	VAL
1	E	707	ILE
1	E	1185	PRO
1	F	61	VAL
2	G	250	ALA
2	H	250	ALA
2	I	250	ALA
2	J	250	ALA
2	K	250	ALA
2	L	250	ALA
1	A	619	PRO
1	A	1071	GLY
1	A	1261	PRO
1	A	1389	GLY
1	B	116	ILE
1	B	455	GLY
1	C	619	PRO
1	C	1071	GLY
1	C	1261	PRO
1	C	1389	GLY
1	D	116	ILE
1	D	455	GLY
1	E	619	PRO
1	E	1071	GLY
1	E	1261	PRO
1	E	1389	GLY
1	F	116	ILE
1	F	455	GLY
1	A	372	VAL
1	B	1394	VAL
1	C	372	VAL
1	D	1394	VAL
1	E	372	VAL
1	F	1394	VAL
1	B	774	PRO
1	B	953	ILE
1	D	774	PRO
1	D	953	ILE

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Mol	Chain	Res	Type
1	F	774	PRO
1	F	953	ILE
1	B	657	VAL
1	D	657	VAL
1	F	657	VAL

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1201/1201 (100%)	985 (82%)	216 (18%)	2	15
1	B	1201/1201 (100%)	981 (82%)	220 (18%)	2	14
1	C	1201/1201 (100%)	985 (82%)	216 (18%)	2	15
1	D	1201/1201 (100%)	981 (82%)	220 (18%)	2	14
1	E	1201/1201 (100%)	985 (82%)	216 (18%)	2	15
1	F	1201/1201 (100%)	981 (82%)	220 (18%)	2	14
2	G	358/358 (100%)	257 (72%)	101 (28%)	0	3
2	H	358/358 (100%)	257 (72%)	101 (28%)	0	3
2	I	358/358 (100%)	257 (72%)	101 (28%)	0	3
2	J	358/358 (100%)	257 (72%)	101 (28%)	0	3
2	K	358/358 (100%)	257 (72%)	101 (28%)	0	3
2	L	358/358 (100%)	257 (72%)	101 (28%)	0	3
All	All	9354/9354 (100%)	7440 (80%)	1914 (20%)	4	10

All (1914) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	VAL
1	A	30	HIS
1	A	34	VAL
1	A	35	ASP
1	A	37	ASP

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Mol	Chain	Res	Type
1	A	39	LYS
1	A	40	THR
1	A	47	HIS
1	A	52	GLN
1	A	59	VAL
1	A	68	ASP
1	A	69	ASN
1	A	76	VAL
1	A	78	LEU
1	A	80	ARG
1	A	81	ILE
1	A	109	GLN
1	A	113	ASN
1	A	117	ILE
1	A	120	LYS
1	A	143	GLN
1	A	144	PHE
1	A	146	LEU
1	A	156	GLU
1	A	162	GLU
1	A	175	ARG
1	A	177	ILE
1	A	184	LEU
1	A	186	GLU
1	A	188	LEU
1	A	189	THR
1	A	196	LEU
1	A	198	GLU
1	A	207	TYR
1	A	209	GLN
1	A	210	ARG
1	A	215	THR
1	A	218	THR
1	A	228	LEU
1	A	235	ASN
1	A	242	ASN
1	A	244	MET
1	A	249	THR
1	A	254	PRO
1	A	258	THR
1	A	261	GLN
1	A	267	ILE

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Mol	Chain	Res	Type
1	A	269	VAL
1	A	279	THR
1	A	286	ARG
1	A	312	ASN
1	A	316	LEU
1	A	322	SER
1	A	335	MET
1	A	336	THR
1	A	342	VAL
1	A	347	ARG
1	A	351	ARG
1	A	353	MET
1	A	355	TYR
1	A	362	LEU
1	A	367	SER
1	A	368	GLU
1	A	377	THR
1	A	380	ILE
1	A	390	MET
1	A	397	SER
1	A	405	GLU
1	A	413	LEU
1	A	417	ASP
1	A	420	VAL
1	A	429	LEU
1	A	439	PRO
1	A	440	SER
1	A	441	ASP
1	A	447	LEU
1	A	461	MET
1	A	463	LEU
1	A	465	LEU
1	A	479	MET
1	A	483	SER
1	A	487	VAL
1	A	495	LEU
1	A	509	PRO
1	A	519	VAL
1	A	520	MET
1	A	526	LEU
1	A	534	ASP
1	A	537	GLU

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Mol	Chain	Res	Type
1	A	547	SER
1	A	559	ARG
1	A	564	ASP
1	A	572	THR
1	A	584	ASP
1	A	598	ARG
1	A	606	LEU
1	A	607	THR
1	A	611	MET
1	A	631	LEU
1	A	634	SER
1	A	636	LEU
1	A	637	ARG
1	A	640	THR
1	A	642	LEU
1	A	650	LEU
1	A	658	LEU
1	A	665	THR
1	A	670	LEU
1	A	673	GLU
1	A	678	ARG
1	A	704	LEU
1	A	705	LEU
1	A	724	ASN
1	A	731	SER
1	A	734	LEU
1	A	764	THR
1	A	768	GLU
1	A	786	ASP
1	A	787	ARG
1	A	794	VAL
1	A	795	ILE
1	A	806	SER
1	A	812	LYS
1	A	813	TYR
1	A	820	ARG
1	A	824	GLN
1	A	826	ARG
1	A	833	SER
1	A	841	ASP
1	A	842	GLU
1	A	850	ARG

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Mol	Chain	Res	Type
1	A	851	LYS
1	A	855	THR
1	A	863	LEU
1	A	875	MET
1	A	884	SER
1	A	889	GLU
1	A	912	SER
1	A	934	GLN
1	A	937	LYS
1	A	952	MET
1	A	953	ILE
1	A	958	HIS
1	A	960	THR
1	A	970	PRO
1	A	978	GLU
1	A	982	GLN
1	A	983	LEU
1	A	1003	ARG
1	A	1008	THR
1	A	1015	LYS
1	A	1036	THR
1	A	1043	LEU
1	A	1057	THR
1	A	1058	LEU
1	A	1062	ARG
1	A	1064	ARG
1	A	1065	VAL
1	A	1066	ARG
1	A	1090	PHE
1	A	1109	HIS
1	A	1121	ASP
1	A	1122	ASP
1	A	1124	LEU
1	A	1142	LEU
1	A	1145	GLU
1	A	1157	SER
1	A	1159	ASN
1	A	1170	GLN
1	A	1173	ARG
1	A	1206	GLU
1	A	1207	VAL
1	A	1220	ARG

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Mol	Chain	Res	Type
1	A	1225	GLU
1	A	1245	ARG
1	A	1246	LEU
1	A	1253	LYS
1	A	1261	PRO
1	A	1264	ILE
1	A	1267	ARG
1	A	1269	ARG
1	A	1274	GLN
1	A	1289	MET
1	A	1291	ASP
1	A	1301	SER
1	A	1304	THR
1	A	1308	ARG
1	A	1310	THR
1	A	1314	PRO
1	A	1317	THR
1	A	1318	ASN
1	A	1349	ARG
1	A	1355	VAL
1	A	1357	VAL
1	A	1360	CYS
1	A	1379	VAL
1	A	1381	ASP
1	A	1398	ASP
1	A	1401	LEU
1	A	1402	PRO
1	A	1408	GLU
1	A	1410	VAL
1	A	1413	GLN
1	A	1419	HIS
1	A	1421	GLU
1	A	1422	SER
1	A	1424	LEU
1	A	1425	LYS
1	A	1449	ARG
1	A	1452	THR
1	A	1461	GLU
1	A	1465	ARG
1	A	1466	LEU
1	A	1470	VAL
1	A	1471	HIS

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Mol	Chain	Res	Type
1	A	1472	LEU
1	B	3	VAL
1	B	30	HIS
1	B	34	VAL
1	B	35	ASP
1	B	37	ASP
1	B	40	THR
1	B	47	HIS
1	B	59	VAL
1	B	68	ASP
1	B	76	VAL
1	B	80	ARG
1	B	81	ILE
1	B	109	GLN
1	B	113	ASN
1	B	117	ILE
1	B	120	LYS
1	B	143	GLN
1	B	144	PHE
1	B	146	LEU
1	B	173	SER
1	B	175	ARG
1	B	184	LEU
1	B	186	GLU
1	B	188	LEU
1	B	189	THR
1	B	198	GLU
1	B	209	GLN
1	B	210	ARG
1	B	215	THR
1	B	217	PRO
1	B	218	THR
1	B	235	ASN
1	B	242	ASN
1	B	249	THR
1	B	254	PRO
1	B	258	THR
1	B	260	MET
1	B	261	GLN
1	B	263	LEU
1	B	269	VAL
1	B	274	SER

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Mol	Chain	Res	Type
1	B	279	THR
1	B	286	ARG
1	B	290	THR
1	B	296	MET
1	B	297	MET
1	B	308	THR
1	B	312	ASN
1	B	316	LEU
1	B	322	SER
1	B	325	GLU
1	B	347	ARG
1	B	351	ARG
1	B	353	MET
1	B	355	TYR
1	B	362	LEU
1	B	367	SER
1	B	377	THR
1	B	380	ILE
1	B	385	LEU
1	B	389	GLU
1	B	397	SER
1	B	402	ARG
1	B	413	LEU
1	B	417	ASP
1	B	420	VAL
1	B	422	ASN
1	B	423	THR
1	B	426	LEU
1	B	429	LEU
1	B	439	PRO
1	B	447	LEU
1	B	461	MET
1	B	462	GLU
1	B	481	ASP
1	B	483	SER
1	B	487	VAL
1	B	490	ASP
1	B	492	TYR
1	B	495	LEU
1	B	496	HIS
1	B	500	ARG
1	B	501	GLN

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Mol	Chain	Res	Type
1	B	519	VAL
1	B	520	MET
1	B	522	LEU
1	B	526	LEU
1	B	531	ASN
1	B	534	ASP
1	B	537	GLU
1	B	538	THR
1	B	542	LEU
1	B	555	PHE
1	B	559	ARG
1	B	562	MET
1	B	564	ASP
1	B	572	THR
1	B	576	ASP
1	B	584	ASP
1	B	593	THR
1	B	606	LEU
1	B	607	THR
1	B	608	ASP
1	B	631	LEU
1	B	636	LEU
1	B	637	ARG
1	B	640	THR
1	B	642	LEU
1	B	643	ASN
1	B	658	LEU
1	B	665	THR
1	B	670	LEU
1	B	673	GLU
1	B	681	ARG
1	B	704	LEU
1	B	714	SER
1	B	717	SER
1	B	731	SER
1	B	746	ILE
1	B	751	LEU
1	B	764	THR
1	B	770	VAL
1	B	786	ASP
1	B	787	ARG
1	B	805	ASP

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Mol	Chain	Res	Type
1	B	813	TYR
1	B	820	ARG
1	B	823	MET
1	B	824	GLN
1	B	826	ARG
1	B	833	SER
1	B	841	ASP
1	B	850	ARG
1	B	855	THR
1	B	859	SER
1	B	884	SER
1	B	889	GLU
1	B	898	LYS
1	B	912	SER
1	B	918	THR
1	B	934	GLN
1	B	937	LYS
1	B	950	THR
1	B	952	MET
1	B	958	HIS
1	B	960	THR
1	B	978	GLU
1	B	983	LEU
1	B	1002	SER
1	B	1003	ARG
1	B	1008	THR
1	B	1015	LYS
1	B	1030	THR
1	B	1043	LEU
1	B	1057	THR
1	B	1058	LEU
1	B	1059	ASN
1	B	1062	ARG
1	B	1064	ARG
1	B	1065	VAL
1	B	1077	ARG
1	B	1090	PHE
1	B	1104	MET
1	B	1105	VAL
1	B	1109	HIS
1	B	1114	PRO
1	B	1121	ASP

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Mol	Chain	Res	Type
1	B	1122	ASP
1	B	1124	LEU
1	B	1131	THR
1	B	1142	LEU
1	B	1145	GLU
1	B	1147	ARG
1	B	1157	SER
1	B	1159	ASN
1	B	1167	LEU
1	B	1169	HIS
1	B	1170	GLN
1	B	1186	ARG
1	B	1195	ASN
1	B	1204	ARG
1	B	1212	ASP
1	B	1229	MET
1	B	1230	GLN
1	B	1237	ASN
1	B	1238	THR
1	B	1245	ARG
1	B	1246	LEU
1	B	1247	SER
1	B	1253	LYS
1	B	1261	PRO
1	B	1264	ILE
1	B	1269	ARG
1	B	1289	MET
1	B	1298	LYS
1	B	1308	ARG
1	B	1317	THR
1	B	1318	ASN
1	B	1344	GLU
1	B	1349	ARG
1	B	1355	VAL
1	B	1360	CYS
1	B	1379	VAL
1	B	1381	ASP
1	B	1388	THR
1	B	1398	ASP
1	B	1400	SER
1	B	1401	LEU
1	B	1408	GLU

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Mol	Chain	Res	Type
1	B	1409	SER
1	B	1410	VAL
1	B	1421	GLU
1	B	1422	SER
1	B	1435	THR
1	B	1449	ARG
1	B	1452	THR
1	B	1465	ARG
1	B	1466	LEU
1	B	1470	VAL
1	B	1471	HIS
1	C	3	VAL
1	C	30	HIS
1	C	34	VAL
1	C	35	ASP
1	C	37	ASP
1	C	39	LYS
1	C	40	THR
1	C	47	HIS
1	C	52	GLN
1	C	59	VAL
1	C	68	ASP
1	C	69	ASN
1	C	76	VAL
1	C	78	LEU
1	C	80	ARG
1	C	81	ILE
1	C	109	GLN
1	C	113	ASN
1	C	117	ILE
1	C	120	LYS
1	C	143	GLN
1	C	144	PHE
1	C	146	LEU
1	C	156	GLU
1	C	162	GLU
1	C	175	ARG
1	C	177	ILE
1	C	184	LEU
1	C	186	GLU
1	C	188	LEU
1	C	189	THR

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Mol	Chain	Res	Type
1	C	196	LEU
1	C	198	GLU
1	C	207	TYR
1	C	209	GLN
1	C	210	ARG
1	C	215	THR
1	C	218	THR
1	C	228	LEU
1	C	235	ASN
1	C	242	ASN
1	C	244	MET
1	C	249	THR
1	C	254	PRO
1	C	258	THR
1	C	261	GLN
1	C	267	ILE
1	C	269	VAL
1	C	279	THR
1	C	286	ARG
1	C	312	ASN
1	C	316	LEU
1	C	322	SER
1	C	335	MET
1	C	336	THR
1	C	342	VAL
1	C	347	ARG
1	C	351	ARG
1	C	353	MET
1	C	355	TYR
1	C	362	LEU
1	C	367	SER
1	C	368	GLU
1	C	377	THR
1	C	380	ILE
1	C	390	MET
1	C	397	SER
1	C	405	GLU
1	C	413	LEU
1	C	417	ASP
1	C	420	VAL
1	C	429	LEU
1	C	439	PRO

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Mol	Chain	Res	Type
1	C	440	SER
1	C	441	ASP
1	C	447	LEU
1	C	461	MET
1	C	463	LEU
1	C	465	LEU
1	C	479	MET
1	C	483	SER
1	C	487	VAL
1	C	495	LEU
1	C	509	PRO
1	C	519	VAL
1	C	520	MET
1	C	526	LEU
1	C	534	ASP
1	C	537	GLU
1	C	547	SER
1	C	559	ARG
1	C	564	ASP
1	C	572	THR
1	C	584	ASP
1	C	598	ARG
1	C	606	LEU
1	C	607	THR
1	C	611	MET
1	C	631	LEU
1	C	634	SER
1	C	636	LEU
1	C	637	ARG
1	C	640	THR
1	C	642	LEU
1	C	650	LEU
1	C	658	LEU
1	C	665	THR
1	C	670	LEU
1	C	673	GLU
1	C	678	ARG
1	C	704	LEU
1	C	705	LEU
1	C	724	ASN
1	C	731	SER
1	C	734	LEU

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Mol	Chain	Res	Type
1	C	764	THR
1	C	768	GLU
1	C	786	ASP
1	C	787	ARG
1	C	794	VAL
1	C	795	ILE
1	C	806	SER
1	C	812	LYS
1	C	813	TYR
1	C	820	ARG
1	C	824	GLN
1	C	826	ARG
1	C	833	SER
1	C	841	ASP
1	C	842	GLU
1	C	850	ARG
1	C	851	LYS
1	C	855	THR
1	C	863	LEU
1	C	875	MET
1	C	884	SER
1	C	889	GLU
1	C	912	SER
1	C	934	GLN
1	C	937	LYS
1	C	952	MET
1	C	953	ILE
1	C	958	HIS
1	C	960	THR
1	C	970	PRO
1	C	978	GLU
1	C	982	GLN
1	C	983	LEU
1	C	1003	ARG
1	C	1008	THR
1	C	1015	LYS
1	C	1036	THR
1	C	1043	LEU
1	C	1057	THR
1	C	1058	LEU
1	C	1062	ARG
1	C	1064	ARG

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Mol	Chain	Res	Type
1	C	1065	VAL
1	C	1066	ARG
1	C	1090	PHE
1	C	1109	HIS
1	C	1121	ASP
1	C	1122	ASP
1	C	1124	LEU
1	C	1142	LEU
1	C	1145	GLU
1	C	1157	SER
1	C	1159	ASN
1	C	1170	GLN
1	C	1173	ARG
1	C	1206	GLU
1	C	1207	VAL
1	C	1220	ARG
1	C	1225	GLU
1	C	1245	ARG
1	C	1246	LEU
1	C	1253	LYS
1	C	1261	PRO
1	C	1264	ILE
1	C	1267	ARG
1	C	1269	ARG
1	C	1274	GLN
1	C	1289	MET
1	C	1291	ASP
1	C	1301	SER
1	C	1304	THR
1	C	1308	ARG
1	C	1310	THR
1	C	1314	PRO
1	C	1317	THR
1	C	1318	ASN
1	C	1349	ARG
1	C	1355	VAL
1	C	1357	VAL
1	C	1360	CYS
1	C	1379	VAL
1	C	1381	ASP
1	C	1398	ASP
1	C	1401	LEU

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Mol	Chain	Res	Type
1	C	1402	PRO
1	C	1408	GLU
1	C	1410	VAL
1	C	1413	GLN
1	C	1419	HIS
1	C	1421	GLU
1	C	1422	SER
1	C	1424	LEU
1	C	1425	LYS
1	C	1449	ARG
1	C	1452	THR
1	C	1461	GLU
1	C	1465	ARG
1	C	1466	LEU
1	C	1470	VAL
1	C	1471	HIS
1	C	1472	LEU
1	D	3	VAL
1	D	30	HIS
1	D	34	VAL
1	D	35	ASP
1	D	37	ASP
1	D	40	THR
1	D	47	HIS
1	D	59	VAL
1	D	68	ASP
1	D	76	VAL
1	D	80	ARG
1	D	81	ILE
1	D	109	GLN
1	D	113	ASN
1	D	117	ILE
1	D	120	LYS
1	D	143	GLN
1	D	144	PHE
1	D	146	LEU
1	D	173	SER
1	D	175	ARG
1	D	184	LEU
1	D	186	GLU
1	D	188	LEU
1	D	189	THR

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Mol	Chain	Res	Type
1	D	198	GLU
1	D	209	GLN
1	D	210	ARG
1	D	215	THR
1	D	217	PRO
1	D	218	THR
1	D	235	ASN
1	D	242	ASN
1	D	249	THR
1	D	254	PRO
1	D	258	THR
1	D	260	MET
1	D	261	GLN
1	D	263	LEU
1	D	269	VAL
1	D	274	SER
1	D	279	THR
1	D	286	ARG
1	D	290	THR
1	D	296	MET
1	D	297	MET
1	D	308	THR
1	D	312	ASN
1	D	316	LEU
1	D	322	SER
1	D	325	GLU
1	D	347	ARG
1	D	351	ARG
1	D	353	MET
1	D	355	TYR
1	D	362	LEU
1	D	367	SER
1	D	377	THR
1	D	380	ILE
1	D	385	LEU
1	D	389	GLU
1	D	397	SER
1	D	402	ARG
1	D	413	LEU
1	D	417	ASP
1	D	420	VAL
1	D	422	ASN

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Mol	Chain	Res	Type
1	D	423	THR
1	D	426	LEU
1	D	429	LEU
1	D	439	PRO
1	D	447	LEU
1	D	461	MET
1	D	462	GLU
1	D	481	ASP
1	D	483	SER
1	D	487	VAL
1	D	490	ASP
1	D	492	TYR
1	D	495	LEU
1	D	496	HIS
1	D	500	ARG
1	D	501	GLN
1	D	519	VAL
1	D	520	MET
1	D	522	LEU
1	D	526	LEU
1	D	531	ASN
1	D	534	ASP
1	D	537	GLU
1	D	538	THR
1	D	542	LEU
1	D	555	PHE
1	D	559	ARG
1	D	562	MET
1	D	564	ASP
1	D	572	THR
1	D	576	ASP
1	D	584	ASP
1	D	593	THR
1	D	606	LEU
1	D	607	THR
1	D	608	ASP
1	D	631	LEU
1	D	636	LEU
1	D	637	ARG
1	D	640	THR
1	D	642	LEU
1	D	643	ASN

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Mol	Chain	Res	Type
1	D	658	LEU
1	D	665	THR
1	D	670	LEU
1	D	673	GLU
1	D	681	ARG
1	D	704	LEU
1	D	714	SER
1	D	717	SER
1	D	731	SER
1	D	746	ILE
1	D	751	LEU
1	D	764	THR
1	D	770	VAL
1	D	786	ASP
1	D	787	ARG
1	D	805	ASP
1	D	813	TYR
1	D	820	ARG
1	D	823	MET
1	D	824	GLN
1	D	826	ARG
1	D	833	SER
1	D	841	ASP
1	D	850	ARG
1	D	855	THR
1	D	859	SER
1	D	884	SER
1	D	889	GLU
1	D	898	LYS
1	D	912	SER
1	D	918	THR
1	D	934	GLN
1	D	937	LYS
1	D	950	THR
1	D	952	MET
1	D	958	HIS
1	D	960	THR
1	D	978	GLU
1	D	983	LEU
1	D	1002	SER
1	D	1003	ARG
1	D	1008	THR

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Mol	Chain	Res	Type
1	D	1015	LYS
1	D	1030	THR
1	D	1043	LEU
1	D	1057	THR
1	D	1058	LEU
1	D	1059	ASN
1	D	1062	ARG
1	D	1064	ARG
1	D	1065	VAL
1	D	1077	ARG
1	D	1090	PHE
1	D	1104	MET
1	D	1105	VAL
1	D	1109	HIS
1	D	1114	PRO
1	D	1121	ASP
1	D	1122	ASP
1	D	1124	LEU
1	D	1131	THR
1	D	1142	LEU
1	D	1145	GLU
1	D	1147	ARG
1	D	1157	SER
1	D	1159	ASN
1	D	1167	LEU
1	D	1169	HIS
1	D	1170	GLN
1	D	1186	ARG
1	D	1195	ASN
1	D	1204	ARG
1	D	1212	ASP
1	D	1229	MET
1	D	1230	GLN
1	D	1237	ASN
1	D	1238	THR
1	D	1245	ARG
1	D	1246	LEU
1	D	1247	SER
1	D	1253	LYS
1	D	1261	PRO
1	D	1264	ILE
1	D	1269	ARG

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Mol	Chain	Res	Type
1	D	1289	MET
1	D	1298	LYS
1	D	1308	ARG
1	D	1317	THR
1	D	1318	ASN
1	D	1344	GLU
1	D	1349	ARG
1	D	1355	VAL
1	D	1360	CYS
1	D	1379	VAL
1	D	1381	ASP
1	D	1388	THR
1	D	1398	ASP
1	D	1400	SER
1	D	1401	LEU
1	D	1408	GLU
1	D	1409	SER
1	D	1410	VAL
1	D	1421	GLU
1	D	1422	SER
1	D	1435	THR
1	D	1449	ARG
1	D	1452	THR
1	D	1465	ARG
1	D	1466	LEU
1	D	1470	VAL
1	D	1471	HIS
1	E	3	VAL
1	E	30	HIS
1	E	34	VAL
1	E	35	ASP
1	E	37	ASP
1	E	39	LYS
1	E	40	THR
1	E	47	HIS
1	E	52	GLN
1	E	59	VAL
1	E	68	ASP
1	E	69	ASN
1	E	76	VAL
1	E	78	LEU
1	E	80	ARG

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Mol	Chain	Res	Type
1	E	81	ILE
1	E	109	GLN
1	E	113	ASN
1	E	117	ILE
1	E	120	LYS
1	E	143	GLN
1	E	144	PHE
1	E	146	LEU
1	E	156	GLU
1	E	162	GLU
1	E	175	ARG
1	E	177	ILE
1	E	184	LEU
1	E	186	GLU
1	E	188	LEU
1	E	189	THR
1	E	196	LEU
1	E	198	GLU
1	E	207	TYR
1	E	209	GLN
1	E	210	ARG
1	E	215	THR
1	E	218	THR
1	E	228	LEU
1	E	235	ASN
1	E	242	ASN
1	E	244	MET
1	E	249	THR
1	E	254	PRO
1	E	258	THR
1	E	261	GLN
1	E	267	ILE
1	E	269	VAL
1	E	279	THR
1	E	286	ARG
1	E	312	ASN
1	E	316	LEU
1	E	322	SER
1	E	335	MET
1	E	336	THR
1	E	342	VAL
1	E	347	ARG

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Mol	Chain	Res	Type
1	E	351	ARG
1	E	353	MET
1	E	355	TYR
1	E	362	LEU
1	E	367	SER
1	E	368	GLU
1	E	377	THR
1	E	380	ILE
1	E	390	MET
1	E	397	SER
1	E	405	GLU
1	E	413	LEU
1	E	417	ASP
1	E	420	VAL
1	E	429	LEU
1	E	439	PRO
1	E	440	SER
1	E	441	ASP
1	E	447	LEU
1	E	461	MET
1	E	463	LEU
1	E	465	LEU
1	E	479	MET
1	E	483	SER
1	E	487	VAL
1	E	495	LEU
1	E	509	PRO
1	E	519	VAL
1	E	520	MET
1	E	526	LEU
1	E	534	ASP
1	E	537	GLU
1	E	547	SER
1	E	559	ARG
1	E	564	ASP
1	E	572	THR
1	E	584	ASP
1	E	598	ARG
1	E	606	LEU
1	E	607	THR
1	E	611	MET
1	E	631	LEU

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Mol	Chain	Res	Type
1	E	634	SER
1	E	636	LEU
1	E	637	ARG
1	E	640	THR
1	E	642	LEU
1	E	650	LEU
1	E	658	LEU
1	E	665	THR
1	E	670	LEU
1	E	673	GLU
1	E	678	ARG
1	E	704	LEU
1	E	705	LEU
1	E	724	ASN
1	E	731	SER
1	E	734	LEU
1	E	764	THR
1	E	768	GLU
1	E	786	ASP
1	E	787	ARG
1	E	794	VAL
1	E	795	ILE
1	E	806	SER
1	E	812	LYS
1	E	813	TYR
1	E	820	ARG
1	E	824	GLN
1	E	826	ARG
1	E	833	SER
1	E	841	ASP
1	E	842	GLU
1	E	850	ARG
1	E	851	LYS
1	E	855	THR
1	E	863	LEU
1	E	875	MET
1	E	884	SER
1	E	889	GLU
1	E	912	SER
1	E	934	GLN
1	E	937	LYS
1	E	952	MET

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Mol	Chain	Res	Type
1	E	953	ILE
1	E	958	HIS
1	E	960	THR
1	E	970	PRO
1	E	978	GLU
1	E	982	GLN
1	E	983	LEU
1	E	1003	ARG
1	E	1008	THR
1	E	1015	LYS
1	E	1036	THR
1	E	1043	LEU
1	E	1057	THR
1	E	1058	LEU
1	E	1062	ARG
1	E	1064	ARG
1	E	1065	VAL
1	E	1066	ARG
1	E	1090	PHE
1	E	1109	HIS
1	E	1121	ASP
1	E	1122	ASP
1	E	1124	LEU
1	E	1142	LEU
1	E	1145	GLU
1	E	1157	SER
1	E	1159	ASN
1	E	1170	GLN
1	E	1173	ARG
1	E	1206	GLU
1	E	1207	VAL
1	E	1220	ARG
1	E	1225	GLU
1	E	1245	ARG
1	E	1246	LEU
1	E	1253	LYS
1	E	1261	PRO
1	E	1264	ILE
1	E	1267	ARG
1	E	1269	ARG
1	E	1274	GLN
1	E	1289	MET

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Mol	Chain	Res	Type
1	E	1291	ASP
1	E	1301	SER
1	E	1304	THR
1	E	1308	ARG
1	E	1310	THR
1	E	1314	PRO
1	E	1317	THR
1	E	1318	ASN
1	E	1349	ARG
1	E	1355	VAL
1	E	1357	VAL
1	E	1360	CYS
1	E	1379	VAL
1	E	1381	ASP
1	E	1398	ASP
1	E	1401	LEU
1	E	1402	PRO
1	E	1408	GLU
1	E	1410	VAL
1	E	1413	GLN
1	E	1419	HIS
1	E	1421	GLU
1	E	1422	SER
1	E	1424	LEU
1	E	1425	LYS
1	E	1449	ARG
1	E	1452	THR
1	E	1461	GLU
1	E	1465	ARG
1	E	1466	LEU
1	E	1470	VAL
1	E	1471	HIS
1	E	1472	LEU
1	F	3	VAL
1	F	30	HIS
1	F	34	VAL
1	F	35	ASP
1	F	37	ASP
1	F	40	THR
1	F	47	HIS
1	F	59	VAL
1	F	68	ASP

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Mol	Chain	Res	Type
1	F	76	VAL
1	F	80	ARG
1	F	81	ILE
1	F	109	GLN
1	F	113	ASN
1	F	117	ILE
1	F	120	LYS
1	F	143	GLN
1	F	144	PHE
1	F	146	LEU
1	F	173	SER
1	F	175	ARG
1	F	184	LEU
1	F	186	GLU
1	F	188	LEU
1	F	189	THR
1	F	198	GLU
1	F	209	GLN
1	F	210	ARG
1	F	215	THR
1	F	217	PRO
1	F	218	THR
1	F	235	ASN
1	F	242	ASN
1	F	249	THR
1	F	254	PRO
1	F	258	THR
1	F	260	MET
1	F	261	GLN
1	F	263	LEU
1	F	269	VAL
1	F	274	SER
1	F	279	THR
1	F	286	ARG
1	F	290	THR
1	F	296	MET
1	F	297	MET
1	F	308	THR
1	F	312	ASN
1	F	316	LEU
1	F	322	SER
1	F	325	GLU

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Mol	Chain	Res	Type
1	F	347	ARG
1	F	351	ARG
1	F	353	MET
1	F	355	TYR
1	F	362	LEU
1	F	367	SER
1	F	377	THR
1	F	380	ILE
1	F	385	LEU
1	F	389	GLU
1	F	397	SER
1	F	402	ARG
1	F	413	LEU
1	F	417	ASP
1	F	420	VAL
1	F	422	ASN
1	F	423	THR
1	F	426	LEU
1	F	429	LEU
1	F	439	PRO
1	F	447	LEU
1	F	461	MET
1	F	462	GLU
1	F	481	ASP
1	F	483	SER
1	F	487	VAL
1	F	490	ASP
1	F	492	TYR
1	F	495	LEU
1	F	496	HIS
1	F	500	ARG
1	F	501	GLN
1	F	519	VAL
1	F	520	MET
1	F	522	LEU
1	F	526	LEU
1	F	531	ASN
1	F	534	ASP
1	F	537	GLU
1	F	538	THR
1	F	542	LEU
1	F	555	PHE

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Mol	Chain	Res	Type
1	F	559	ARG
1	F	562	MET
1	F	564	ASP
1	F	572	THR
1	F	576	ASP
1	F	584	ASP
1	F	593	THR
1	F	606	LEU
1	F	607	THR
1	F	608	ASP
1	F	631	LEU
1	F	636	LEU
1	F	637	ARG
1	F	640	THR
1	F	642	LEU
1	F	643	ASN
1	F	658	LEU
1	F	665	THR
1	F	670	LEU
1	F	673	GLU
1	F	681	ARG
1	F	704	LEU
1	F	714	SER
1	F	717	SER
1	F	731	SER
1	F	746	ILE
1	F	751	LEU
1	F	764	THR
1	F	770	VAL
1	F	786	ASP
1	F	787	ARG
1	F	805	ASP
1	F	813	TYR
1	F	820	ARG
1	F	823	MET
1	F	824	GLN
1	F	826	ARG
1	F	833	SER
1	F	841	ASP
1	F	850	ARG
1	F	855	THR
1	F	859	SER

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Mol	Chain	Res	Type
1	F	884	SER
1	F	889	GLU
1	F	898	LYS
1	F	912	SER
1	F	918	THR
1	F	934	GLN
1	F	937	LYS
1	F	950	THR
1	F	952	MET
1	F	958	HIS
1	F	960	THR
1	F	978	GLU
1	F	983	LEU
1	F	1002	SER
1	F	1003	ARG
1	F	1008	THR
1	F	1015	LYS
1	F	1030	THR
1	F	1043	LEU
1	F	1057	THR
1	F	1058	LEU
1	F	1059	ASN
1	F	1062	ARG
1	F	1064	ARG
1	F	1065	VAL
1	F	1077	ARG
1	F	1090	PHE
1	F	1104	MET
1	F	1105	VAL
1	F	1109	HIS
1	F	1114	PRO
1	F	1121	ASP
1	F	1122	ASP
1	F	1124	LEU
1	F	1131	THR
1	F	1142	LEU
1	F	1145	GLU
1	F	1147	ARG
1	F	1157	SER
1	F	1159	ASN
1	F	1167	LEU
1	F	1169	HIS

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Mol	Chain	Res	Type
1	F	1170	GLN
1	F	1186	ARG
1	F	1195	ASN
1	F	1204	ARG
1	F	1212	ASP
1	F	1229	MET
1	F	1230	GLN
1	F	1237	ASN
1	F	1238	THR
1	F	1245	ARG
1	F	1246	LEU
1	F	1247	SER
1	F	1253	LYS
1	F	1261	PRO
1	F	1264	ILE
1	F	1269	ARG
1	F	1289	MET
1	F	1298	LYS
1	F	1308	ARG
1	F	1317	THR
1	F	1318	ASN
1	F	1344	GLU
1	F	1349	ARG
1	F	1355	VAL
1	F	1360	CYS
1	F	1379	VAL
1	F	1381	ASP
1	F	1388	THR
1	F	1398	ASP
1	F	1400	SER
1	F	1401	LEU
1	F	1408	GLU
1	F	1409	SER
1	F	1410	VAL
1	F	1421	GLU
1	F	1422	SER
1	F	1435	THR
1	F	1449	ARG
1	F	1452	THR
1	F	1465	ARG
1	F	1466	LEU
1	F	1470	VAL

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Mol	Chain	Res	Type
1	F	1471	HIS
2	G	37	ASP
2	G	52	VAL
2	G	61	VAL
2	G	68	TRP
2	G	69	LEU
2	G	72	THR
2	G	97	ILE
2	G	109	VAL
2	G	111	GLU
2	G	114	THR
2	G	118	VAL
2	G	119	THR
2	G	123	VAL
2	G	125	LYS
2	G	139	PRO
2	G	141	THR
2	G	146	LEU
2	G	148	LEU
2	G	150	VAL
2	G	152	VAL
2	G	166	LEU
2	G	169	LYS
2	G	173	VAL
2	G	175	VAL
2	G	181	ARG
2	G	182	MET
2	G	186	LEU
2	G	195	LEU
2	G	196	GLU
2	G	197	LYS
2	G	200	VAL
2	G	203	ARG
2	G	204	VAL
2	G	206	LEU
2	G	207	LEU
2	G	212	VAL
2	G	220	VAL
2	G	226	LEU
2	G	236	VAL
2	G	237	LEU
2	G	238	VAL

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Mol	Chain	Res	Type
2	G	240	THR
2	G	242	VAL
2	G	244	LYS
2	G	255	LEU
2	G	259	VAL
2	G	262	LEU
2	G	263	ASP
2	G	265	LEU
2	G	267	THR
2	G	271	VAL
2	G	273	LEU
2	G	295	LEU
2	G	307	THR
2	G	319	LEU
2	G	321	ARG
2	G	322	ARG
2	G	328	PRO
2	G	331	GLN
2	G	334	VAL
2	G	345	ILE
2	G	347	GLN
2	G	350	PRO
2	G	354	THR
2	G	356	ASP
2	G	358	VAL
2	G	359	VAL
2	G	360	THR
2	G	365	VAL
2	G	367	ILE
2	G	371	VAL
2	G	373	ASP
2	G	380	PRO
2	G	382	VAL
2	G	383	ILE
2	G	389	THR
2	G	390	VAL
2	G	394	LEU
2	G	395	VAL
2	G	399	LEU
2	G	405	ASP
2	G	406	LEU
2	G	408	ASN

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Mol	Chain	Res	Type
2	G	411	ASP
2	G	413	PRO
2	G	415	LEU
2	G	418	THR
2	G	419	ARG
2	G	422	THR
2	G	423	LEU
2	G	424	LEU
2	G	425	VAL
2	G	430	LYS
2	G	437	VAL
2	G	449	LEU
2	G	450	VAL
2	G	454	ILE
2	G	462	GLU
2	G	475	PRO
2	G	476	VAL
2	G	478	VAL
2	H	37	ASP
2	H	52	VAL
2	H	61	VAL
2	H	68	TRP
2	H	69	LEU
2	H	72	THR
2	H	97	ILE
2	H	109	VAL
2	H	111	GLU
2	H	114	THR
2	H	118	VAL
2	H	119	THR
2	H	123	VAL
2	H	125	LYS
2	H	139	PRO
2	H	141	THR
2	H	146	LEU
2	H	148	LEU
2	H	150	VAL
2	H	152	VAL
2	H	166	LEU
2	H	169	LYS
2	H	173	VAL
2	H	175	VAL

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Mol	Chain	Res	Type
2	H	181	ARG
2	H	182	MET
2	H	186	LEU
2	H	195	LEU
2	H	196	GLU
2	H	197	LYS
2	H	200	VAL
2	H	203	ARG
2	H	204	VAL
2	H	206	LEU
2	H	207	LEU
2	H	212	VAL
2	H	220	VAL
2	H	226	LEU
2	H	236	VAL
2	H	237	LEU
2	H	238	VAL
2	H	240	THR
2	H	242	VAL
2	H	244	LYS
2	H	255	LEU
2	H	259	VAL
2	H	262	LEU
2	H	263	ASP
2	H	265	LEU
2	H	267	THR
2	H	271	VAL
2	H	273	LEU
2	H	295	LEU
2	H	307	THR
2	H	319	LEU
2	H	321	ARG
2	H	322	ARG
2	H	328	PRO
2	H	331	GLN
2	H	334	VAL
2	H	345	ILE
2	H	347	GLN
2	H	350	PRO
2	H	354	THR
2	H	356	ASP
2	H	358	VAL

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Mol	Chain	Res	Type
2	H	359	VAL
2	H	360	THR
2	H	365	VAL
2	H	367	ILE
2	H	371	VAL
2	H	373	ASP
2	H	380	PRO
2	H	382	VAL
2	H	383	ILE
2	H	389	THR
2	H	390	VAL
2	H	394	LEU
2	H	395	VAL
2	H	399	LEU
2	H	405	ASP
2	H	406	LEU
2	H	408	ASN
2	H	411	ASP
2	H	413	PRO
2	H	415	LEU
2	H	418	THR
2	H	419	ARG
2	H	422	THR
2	H	423	LEU
2	H	424	LEU
2	H	425	VAL
2	H	430	LYS
2	H	437	VAL
2	H	449	LEU
2	H	450	VAL
2	H	454	ILE
2	H	462	GLU
2	H	475	PRO
2	H	476	VAL
2	H	478	VAL
2	I	37	ASP
2	I	52	VAL
2	I	61	VAL
2	I	68	TRP
2	I	69	LEU
2	I	72	THR
2	I	97	ILE

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Mol	Chain	Res	Type
2	I	109	VAL
2	I	111	GLU
2	I	114	THR
2	I	118	VAL
2	I	119	THR
2	I	123	VAL
2	I	125	LYS
2	I	139	PRO
2	I	141	THR
2	I	146	LEU
2	I	148	LEU
2	I	150	VAL
2	I	152	VAL
2	I	166	LEU
2	I	169	LYS
2	I	173	VAL
2	I	175	VAL
2	I	181	ARG
2	I	182	MET
2	I	186	LEU
2	I	195	LEU
2	I	196	GLU
2	I	197	LYS
2	I	200	VAL
2	I	203	ARG
2	I	204	VAL
2	I	206	LEU
2	I	207	LEU
2	I	212	VAL
2	I	220	VAL
2	I	226	LEU
2	I	236	VAL
2	I	237	LEU
2	I	238	VAL
2	I	240	THR
2	I	242	VAL
2	I	244	LYS
2	I	255	LEU
2	I	259	VAL
2	I	262	LEU
2	I	263	ASP
2	I	265	LEU

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Mol	Chain	Res	Type
2	I	267	THR
2	I	271	VAL
2	I	273	LEU
2	I	295	LEU
2	I	307	THR
2	I	319	LEU
2	I	321	ARG
2	I	322	ARG
2	I	328	PRO
2	I	331	GLN
2	I	334	VAL
2	I	345	ILE
2	I	347	GLN
2	I	350	PRO
2	I	354	THR
2	I	356	ASP
2	I	358	VAL
2	I	359	VAL
2	I	360	THR
2	I	365	VAL
2	I	367	ILE
2	I	371	VAL
2	I	373	ASP
2	I	380	PRO
2	I	382	VAL
2	I	383	ILE
2	I	389	THR
2	I	390	VAL
2	I	394	LEU
2	I	395	VAL
2	I	399	LEU
2	I	405	ASP
2	I	406	LEU
2	I	408	ASN
2	I	411	ASP
2	I	413	PRO
2	I	415	LEU
2	I	418	THR
2	I	419	ARG
2	I	422	THR
2	I	423	LEU
2	I	424	LEU

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Mol	Chain	Res	Type
2	I	425	VAL
2	I	430	LYS
2	I	437	VAL
2	I	449	LEU
2	I	450	VAL
2	I	454	ILE
2	I	462	GLU
2	I	475	PRO
2	I	476	VAL
2	I	478	VAL
2	J	37	ASP
2	J	52	VAL
2	J	61	VAL
2	J	68	TRP
2	J	69	LEU
2	J	72	THR
2	J	97	ILE
2	J	109	VAL
2	J	111	GLU
2	J	114	THR
2	J	118	VAL
2	J	119	THR
2	J	123	VAL
2	J	125	LYS
2	J	139	PRO
2	J	141	THR
2	J	146	LEU
2	J	148	LEU
2	J	150	VAL
2	J	152	VAL
2	J	166	LEU
2	J	169	LYS
2	J	173	VAL
2	J	175	VAL
2	J	181	ARG
2	J	182	MET
2	J	186	LEU
2	J	195	LEU
2	J	196	GLU
2	J	197	LYS
2	J	200	VAL
2	J	203	ARG

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Mol	Chain	Res	Type
2	J	204	VAL
2	J	206	LEU
2	J	207	LEU
2	J	212	VAL
2	J	220	VAL
2	J	226	LEU
2	J	236	VAL
2	J	237	LEU
2	J	238	VAL
2	J	240	THR
2	J	242	VAL
2	J	244	LYS
2	J	255	LEU
2	J	259	VAL
2	J	262	LEU
2	J	263	ASP
2	J	265	LEU
2	J	267	THR
2	J	271	VAL
2	J	273	LEU
2	J	295	LEU
2	J	307	THR
2	J	319	LEU
2	J	321	ARG
2	J	322	ARG
2	J	328	PRO
2	J	331	GLN
2	J	334	VAL
2	J	345	ILE
2	J	347	GLN
2	J	350	PRO
2	J	354	THR
2	J	356	ASP
2	J	358	VAL
2	J	359	VAL
2	J	360	THR
2	J	365	VAL
2	J	367	ILE
2	J	371	VAL
2	J	373	ASP
2	J	380	PRO
2	J	382	VAL

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Mol	Chain	Res	Type
2	J	383	ILE
2	J	389	THR
2	J	390	VAL
2	J	394	LEU
2	J	395	VAL
2	J	399	LEU
2	J	405	ASP
2	J	406	LEU
2	J	408	ASN
2	J	411	ASP
2	J	413	PRO
2	J	415	LEU
2	J	418	THR
2	J	419	ARG
2	J	422	THR
2	J	423	LEU
2	J	424	LEU
2	J	425	VAL
2	J	430	LYS
2	J	437	VAL
2	J	449	LEU
2	J	450	VAL
2	J	454	ILE
2	J	462	GLU
2	J	475	PRO
2	J	476	VAL
2	J	478	VAL
2	K	37	ASP
2	K	52	VAL
2	K	61	VAL
2	K	68	TRP
2	K	69	LEU
2	K	72	THR
2	K	97	ILE
2	K	109	VAL
2	K	111	GLU
2	K	114	THR
2	K	118	VAL
2	K	119	THR
2	K	123	VAL
2	K	125	LYS
2	K	139	PRO

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Mol	Chain	Res	Type
2	K	141	THR
2	K	146	LEU
2	K	148	LEU
2	K	150	VAL
2	K	152	VAL
2	K	166	LEU
2	K	169	LYS
2	K	173	VAL
2	K	175	VAL
2	K	181	ARG
2	K	182	MET
2	K	186	LEU
2	K	195	LEU
2	K	196	GLU
2	K	197	LYS
2	K	200	VAL
2	K	203	ARG
2	K	204	VAL
2	K	206	LEU
2	K	207	LEU
2	K	212	VAL
2	K	220	VAL
2	K	226	LEU
2	K	236	VAL
2	K	237	LEU
2	K	238	VAL
2	K	240	THR
2	K	242	VAL
2	K	244	LYS
2	K	255	LEU
2	K	259	VAL
2	K	262	LEU
2	K	263	ASP
2	K	265	LEU
2	K	267	THR
2	K	271	VAL
2	K	273	LEU
2	K	295	LEU
2	K	307	THR
2	K	319	LEU
2	K	321	ARG
2	K	322	ARG

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Mol	Chain	Res	Type
2	K	328	PRO
2	K	331	GLN
2	K	334	VAL
2	K	345	ILE
2	K	347	GLN
2	K	350	PRO
2	K	354	THR
2	K	356	ASP
2	K	358	VAL
2	K	359	VAL
2	K	360	THR
2	K	365	VAL
2	K	367	ILE
2	K	371	VAL
2	K	373	ASP
2	K	380	PRO
2	K	382	VAL
2	K	383	ILE
2	K	389	THR
2	K	390	VAL
2	K	394	LEU
2	K	395	VAL
2	K	399	LEU
2	K	405	ASP
2	K	406	LEU
2	K	408	ASN
2	K	411	ASP
2	K	413	PRO
2	K	415	LEU
2	K	418	THR
2	K	419	ARG
2	K	422	THR
2	K	423	LEU
2	K	424	LEU
2	K	425	VAL
2	K	430	LYS
2	K	437	VAL
2	K	449	LEU
2	K	450	VAL
2	K	454	ILE
2	K	462	GLU
2	K	475	PRO

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Mol	Chain	Res	Type
2	K	476	VAL
2	K	478	VAL
2	L	37	ASP
2	L	52	VAL
2	L	61	VAL
2	L	68	TRP
2	L	69	LEU
2	L	72	THR
2	L	97	ILE
2	L	109	VAL
2	L	111	GLU
2	L	114	THR
2	L	118	VAL
2	L	119	THR
2	L	123	VAL
2	L	125	LYS
2	L	139	PRO
2	L	141	THR
2	L	146	LEU
2	L	148	LEU
2	L	150	VAL
2	L	152	VAL
2	L	166	LEU
2	L	169	LYS
2	L	173	VAL
2	L	175	VAL
2	L	181	ARG
2	L	182	MET
2	L	186	LEU
2	L	195	LEU
2	L	196	GLU
2	L	197	LYS
2	L	200	VAL
2	L	203	ARG
2	L	204	VAL
2	L	206	LEU
2	L	207	LEU
2	L	212	VAL
2	L	220	VAL
2	L	226	LEU
2	L	236	VAL
2	L	237	LEU

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Mol	Chain	Res	Type
2	L	238	VAL
2	L	240	THR
2	L	242	VAL
2	L	244	LYS
2	L	255	LEU
2	L	259	VAL
2	L	262	LEU
2	L	263	ASP
2	L	265	LEU
2	L	267	THR
2	L	271	VAL
2	L	273	LEU
2	L	295	LEU
2	L	307	THR
2	L	319	LEU
2	L	321	ARG
2	L	322	ARG
2	L	328	PRO
2	L	331	GLN
2	L	334	VAL
2	L	345	ILE
2	L	347	GLN
2	L	350	PRO
2	L	354	THR
2	L	356	ASP
2	L	358	VAL
2	L	359	VAL
2	L	360	THR
2	L	365	VAL
2	L	367	ILE
2	L	371	VAL
2	L	373	ASP
2	L	380	PRO
2	L	382	VAL
2	L	383	ILE
2	L	389	THR
2	L	390	VAL
2	L	394	LEU
2	L	395	VAL
2	L	399	LEU
2	L	405	ASP
2	L	406	LEU

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Mol	Chain	Res	Type
2	L	408	ASN
2	L	411	ASP
2	L	413	PRO
2	L	415	LEU
2	L	418	THR
2	L	419	ARG
2	L	422	THR
2	L	423	LEU
2	L	424	LEU
2	L	425	VAL
2	L	430	LYS
2	L	437	VAL
2	L	449	LEU
2	L	450	VAL
2	L	454	ILE
2	L	462	GLU
2	L	475	PRO
2	L	476	VAL
2	L	478	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (277) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	30	HIS
1	A	47	HIS
1	A	52	GLN
1	A	64	HIS
1	A	113	ASN
1	A	143	GLN
1	A	163	GLN
1	A	208	HIS
1	A	214	ASN
1	A	230	HIS
1	A	235	ASN
1	A	240	ASN
1	A	261	GLN
1	A	313	HIS
1	A	321	ASN
1	A	452	GLN
1	A	505	GLN
1	A	635	ASN
1	A	643	ASN

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Mol	Chain	Res	Type
1	A	653	HIS
1	A	724	ASN
1	A	738	HIS
1	A	755	GLN
1	A	788	HIS
1	A	824	GLN
1	A	943	GLN
1	A	982	GLN
1	A	1059	ASN
1	A	1205	ASN
1	A	1230	GLN
1	A	1274	GLN
1	A	1318	ASN
1	A	1320	ASN
1	A	1363	ASN
1	A	1382	ASN
1	A	1419	HIS
1	A	1471	HIS
1	B	30	HIS
1	B	47	HIS
1	B	52	GLN
1	B	113	ASN
1	B	143	GLN
1	B	208	HIS
1	B	214	ASN
1	B	231	ASN
1	B	235	ASN
1	B	240	ASN
1	B	242	ASN
1	B	247	HIS
1	B	259	HIS
1	B	301	GLN
1	B	307	GLN
1	B	321	ASN
1	B	452	GLN
1	B	497	HIS
1	B	505	GLN
1	B	643	ASN
1	B	653	HIS
1	B	738	HIS
1	B	755	GLN
1	B	762	HIS

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Mol	Chain	Res	Type
1	B	788	HIS
1	B	816	GLN
1	B	824	GLN
1	B	943	GLN
1	B	982	GLN
1	B	1059	ASN
1	B	1137	ASN
1	B	1195	ASN
1	B	1205	ASN
1	B	1263	HIS
1	B	1274	GLN
1	B	1318	ASN
1	B	1363	ASN
1	B	1382	ASN
1	B	1419	HIS
1	B	1471	HIS
1	C	30	HIS
1	C	47	HIS
1	C	52	GLN
1	C	64	HIS
1	C	113	ASN
1	C	143	GLN
1	C	163	GLN
1	C	208	HIS
1	C	214	ASN
1	C	230	HIS
1	C	235	ASN
1	C	240	ASN
1	C	261	GLN
1	C	313	HIS
1	C	321	ASN
1	C	452	GLN
1	C	505	GLN
1	C	635	ASN
1	C	643	ASN
1	C	653	HIS
1	C	724	ASN
1	C	738	HIS
1	C	755	GLN
1	C	788	HIS
1	C	824	GLN
1	C	943	GLN

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Mol	Chain	Res	Type
1	C	982	GLN
1	C	1059	ASN
1	C	1205	ASN
1	C	1230	GLN
1	C	1274	GLN
1	C	1318	ASN
1	C	1320	ASN
1	C	1363	ASN
1	C	1382	ASN
1	C	1419	HIS
1	C	1471	HIS
1	D	30	HIS
1	D	47	HIS
1	D	52	GLN
1	D	113	ASN
1	D	143	GLN
1	D	208	HIS
1	D	214	ASN
1	D	231	ASN
1	D	235	ASN
1	D	240	ASN
1	D	242	ASN
1	D	247	HIS
1	D	301	GLN
1	D	307	GLN
1	D	321	ASN
1	D	452	GLN
1	D	497	HIS
1	D	505	GLN
1	D	643	ASN
1	D	653	HIS
1	D	738	HIS
1	D	755	GLN
1	D	762	HIS
1	D	788	HIS
1	D	816	GLN
1	D	824	GLN
1	D	943	GLN
1	D	982	GLN
1	D	1059	ASN
1	D	1137	ASN
1	D	1195	ASN

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Mol	Chain	Res	Type
1	D	1205	ASN
1	D	1263	HIS
1	D	1274	GLN
1	D	1318	ASN
1	D	1363	ASN
1	D	1382	ASN
1	D	1419	HIS
1	D	1471	HIS
1	E	30	HIS
1	E	47	HIS
1	E	52	GLN
1	E	64	HIS
1	E	113	ASN
1	E	143	GLN
1	E	163	GLN
1	E	208	HIS
1	E	214	ASN
1	E	230	HIS
1	E	235	ASN
1	E	240	ASN
1	E	261	GLN
1	E	313	HIS
1	E	321	ASN
1	E	452	GLN
1	E	505	GLN
1	E	635	ASN
1	E	643	ASN
1	E	653	HIS
1	E	724	ASN
1	E	738	HIS
1	E	755	GLN
1	E	788	HIS
1	E	824	GLN
1	E	943	GLN
1	E	982	GLN
1	E	1059	ASN
1	E	1205	ASN
1	E	1230	GLN
1	E	1274	GLN
1	E	1293	ASN
1	E	1318	ASN
1	E	1320	ASN

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Mol	Chain	Res	Type
1	E	1363	ASN
1	E	1382	ASN
1	E	1419	HIS
1	E	1471	HIS
1	F	30	HIS
1	F	47	HIS
1	F	52	GLN
1	F	113	ASN
1	F	143	GLN
1	F	208	HIS
1	F	214	ASN
1	F	231	ASN
1	F	235	ASN
1	F	240	ASN
1	F	242	ASN
1	F	247	HIS
1	F	259	HIS
1	F	301	GLN
1	F	307	GLN
1	F	321	ASN
1	F	452	GLN
1	F	497	HIS
1	F	505	GLN
1	F	643	ASN
1	F	653	HIS
1	F	738	HIS
1	F	755	GLN
1	F	762	HIS
1	F	788	HIS
1	F	816	GLN
1	F	824	GLN
1	F	943	GLN
1	F	982	GLN
1	F	1059	ASN
1	F	1137	ASN
1	F	1195	ASN
1	F	1205	ASN
1	F	1263	HIS
1	F	1274	GLN
1	F	1318	ASN
1	F	1363	ASN
1	F	1382	ASN

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Mol	Chain	Res	Type
1	F	1419	HIS
1	F	1471	HIS
2	G	45	ASN
2	G	56	GLN
2	G	100	GLN
2	G	174	HIS
2	G	269	ASN
2	G	291	HIS
2	G	408	ASN
2	G	433	ASN
2	H	45	ASN
2	H	56	GLN
2	H	100	GLN
2	H	174	HIS
2	H	269	ASN
2	H	291	HIS
2	H	408	ASN
2	H	433	ASN
2	I	45	ASN
2	I	56	GLN
2	I	100	GLN
2	I	174	HIS
2	I	269	ASN
2	I	291	HIS
2	I	408	ASN
2	I	433	ASN
2	J	45	ASN
2	J	56	GLN
2	J	100	GLN
2	J	174	HIS
2	J	269	ASN
2	J	291	HIS
2	J	408	ASN
2	J	433	ASN
2	K	45	ASN
2	K	56	GLN
2	K	174	HIS
2	K	269	ASN
2	K	291	HIS
2	K	408	ASN
2	K	433	ASN
2	L	45	ASN

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Mol	Chain	Res	Type
2	L	56	GLN
2	L	174	HIS
2	L	269	ASN
2	L	291	HIS
2	L	408	ASN
2	L	433	ASN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

## 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 5.6 Ligand geometry ⓘ

42 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
3	OMT	A	2473	-	7,10,10	4.38	4 (57%)	8,14,14	4.85	6 (75%)
4	FMN	A	2474	-	32,33,33	1.37	5 (15%)	34,50,50	3.29	17 (50%)
5	AKG	A	2475	-	3,9,9	4.56	2 (66%)	4,11,11	2.82	2 (50%)
6	F3S	A	2476	1	0,9,9	0.00	-	0,15,15	0.00	-
3	OMT	B	2473	-	7,10,10	4.32	4 (57%)	8,14,14	7.18	5 (62%)
4	FMN	B	2474	-	32,33,33	1.23	4 (12%)	34,50,50	2.71	16 (47%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
5	AKG	B	2475	-	3,9,9	4.89	2 (66%)	4,11,11	3.33	2 (50%)
6	F3S	B	2476	1	0,9,9	0.00	-	0,15,15	0.00	-
3	OMT	C	2473	-	7,10,10	4.39	4 (57%)	8,14,14	4.86	6 (75%)
4	FMN	C	2474	-	32,33,33	1.37	5 (15%)	34,50,50	3.29	17 (50%)
5	AKG	C	2475	-	3,9,9	4.55	2 (66%)	4,11,11	2.82	2 (50%)
6	F3S	C	2476	1	0,9,9	0.00	-	0,15,15	0.00	-
3	OMT	D	2473	-	7,10,10	4.31	4 (57%)	8,14,14	7.18	5 (62%)
4	FMN	D	2474	-	32,33,33	1.23	4 (12%)	34,50,50	2.71	16 (47%)
5	AKG	D	2475	-	3,9,9	4.91	2 (66%)	4,11,11	3.33	2 (50%)
6	F3S	D	2476	1	0,9,9	0.00	-	0,15,15	0.00	-
3	OMT	E	2473	-	7,10,10	4.38	4 (57%)	8,14,14	4.85	6 (75%)
4	FMN	E	2474	-	32,33,33	1.37	5 (15%)	34,50,50	3.29	17 (50%)
5	AKG	E	2475	-	3,9,9	4.55	2 (66%)	4,11,11	2.82	2 (50%)
6	F3S	E	2476	1	0,9,9	0.00	-	0,15,15	0.00	-
3	OMT	F	2473	-	7,10,10	4.32	4 (57%)	8,14,14	7.18	5 (62%)
4	FMN	F	2474	-	32,33,33	1.23	4 (12%)	34,50,50	2.71	16 (47%)
5	AKG	F	2475	-	3,9,9	4.91	2 (66%)	4,11,11	3.33	2 (50%)
6	F3S	F	2476	1	0,9,9	0.00	-	0,15,15	0.00	-
7	SF4	G	482	2	0,12,12	0.00	-	0,24,24	0.00	-
7	SF4	G	483	2	0,12,12	0.00	-	0,24,24	0.00	-
8	FAD	G	484	-	52,58,58	2.12	19 (36%)	52,89,89	2.00	11 (21%)
7	SF4	H	482	2	0,12,12	0.00	-	0,24,24	0.00	-
7	SF4	H	483	2	0,12,12	0.00	-	0,24,24	0.00	-
8	FAD	H	484	-	52,58,58	2.12	19 (36%)	52,89,89	2.00	11 (21%)
7	SF4	I	482	2	0,12,12	0.00	-	0,24,24	0.00	-
7	SF4	I	483	2	0,12,12	0.00	-	0,24,24	0.00	-
8	FAD	I	484	-	52,58,58	2.12	19 (36%)	52,89,89	2.00	11 (21%)
7	SF4	J	482	2	0,12,12	0.00	-	0,24,24	0.00	-
7	SF4	J	483	2	0,12,12	0.00	-	0,24,24	0.00	-
8	FAD	J	484	-	52,58,58	2.12	19 (36%)	52,89,89	2.00	11 (21%)
7	SF4	K	482	2	0,12,12	0.00	-	0,24,24	0.00	-
7	SF4	K	483	2	0,12,12	0.00	-	0,24,24	0.00	-
8	FAD	K	484	-	52,58,58	2.12	19 (36%)	52,89,89	2.00	11 (21%)
7	SF4	L	482	2	0,12,12	0.00	-	0,24,24	0.00	-
7	SF4	L	483	2	0,12,12	0.00	-	0,24,24	0.00	-
8	FAD	L	484	-	52,58,58	2.12	19 (36%)	52,89,89	2.00	11 (21%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral

centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	OMT	A	2473	-	-	0/6/10/10	0/0/0/0
4	FMN	A	2474	-	-	0/18/18/18	0/3/3/3
5	AKG	A	2475	-	-	0/3/9/9	0/0/0/0
6	F3S	A	2476	1	-	0/0/24/24	0/0/3/3
3	OMT	B	2473	-	-	0/6/10/10	0/0/0/0
4	FMN	B	2474	-	-	0/18/18/18	0/3/3/3
5	AKG	B	2475	-	-	0/3/9/9	0/0/0/0
6	F3S	B	2476	1	-	0/0/24/24	0/0/3/3
3	OMT	C	2473	-	-	0/6/10/10	0/0/0/0
4	FMN	C	2474	-	-	0/18/18/18	0/3/3/3
5	AKG	C	2475	-	-	0/3/9/9	0/0/0/0
6	F3S	C	2476	1	-	0/0/24/24	0/0/3/3
3	OMT	D	2473	-	-	0/6/10/10	0/0/0/0
4	FMN	D	2474	-	-	0/18/18/18	0/3/3/3
5	AKG	D	2475	-	-	0/3/9/9	0/0/0/0
6	F3S	D	2476	1	-	0/0/24/24	0/0/3/3
3	OMT	E	2473	-	-	0/6/10/10	0/0/0/0
4	FMN	E	2474	-	-	0/18/18/18	0/3/3/3
5	AKG	E	2475	-	-	0/3/9/9	0/0/0/0
6	F3S	E	2476	1	-	0/0/24/24	0/0/3/3
3	OMT	F	2473	-	-	0/6/10/10	0/0/0/0
4	FMN	F	2474	-	-	0/18/18/18	0/3/3/3
5	AKG	F	2475	-	-	0/3/9/9	0/0/0/0
6	F3S	F	2476	1	-	0/0/24/24	0/0/3/3
7	SF4	G	482	2	-	0/0/48/48	0/6/5/5
7	SF4	G	483	2	-	0/0/48/48	0/6/5/5
8	FAD	G	484	-	-	0/30/50/50	0/6/6/6
7	SF4	H	482	2	-	0/0/48/48	0/6/5/5
7	SF4	H	483	2	-	0/0/48/48	0/6/5/5
8	FAD	H	484	-	-	0/30/50/50	0/6/6/6
7	SF4	I	482	2	-	0/0/48/48	0/6/5/5
7	SF4	I	483	2	-	0/0/48/48	0/6/5/5
8	FAD	I	484	-	-	0/30/50/50	0/6/6/6
7	SF4	J	482	2	-	0/0/48/48	0/6/5/5
7	SF4	J	483	2	-	0/0/48/48	0/6/5/5
8	FAD	J	484	-	-	0/30/50/50	0/6/6/6
7	SF4	K	482	2	-	0/0/48/48	0/6/5/5
7	SF4	K	483	2	-	0/0/48/48	0/6/5/5
8	FAD	K	484	-	-	0/30/50/50	0/6/6/6
7	SF4	L	482	2	-	0/0/48/48	0/6/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	SF4	L	483	2	-	0/0/48/48	0/6/5/5
8	FAD	L	484	-	-	0/30/50/50	0/6/6/6

All (177) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	2473	OMT	CG-SD	-7.14	1.69	1.78
3	F	2473	OMT	CG-SD	-7.13	1.69	1.78
3	D	2473	OMT	CG-SD	-7.11	1.69	1.78
3	E	2473	OMT	CG-SD	-6.94	1.69	1.78
3	A	2473	OMT	CG-SD	-6.89	1.69	1.78
3	C	2473	OMT	CG-SD	-6.89	1.69	1.78
3	C	2473	OMT	CB-CG	-6.89	1.45	1.52
3	A	2473	OMT	CB-CG	-6.85	1.45	1.52
3	E	2473	OMT	CB-CG	-6.81	1.45	1.52
3	B	2473	OMT	CB-CG	-5.88	1.46	1.52
3	F	2473	OMT	CB-CG	-5.87	1.46	1.52
3	D	2473	OMT	CB-CG	-5.87	1.46	1.52
8	I	484	FAD	PA-O2A	-4.44	1.36	1.55
8	K	484	FAD	PA-O2A	-4.44	1.36	1.55
8	J	484	FAD	PA-O2A	-4.43	1.36	1.55
8	G	484	FAD	PA-O2A	-4.43	1.36	1.55
8	H	484	FAD	PA-O2A	-4.42	1.36	1.55
8	L	484	FAD	PA-O2A	-4.42	1.36	1.55
8	I	484	FAD	P-O2P	-3.70	1.39	1.55
8	K	484	FAD	P-O2P	-3.70	1.39	1.55
8	J	484	FAD	P-O2P	-3.69	1.39	1.55
8	G	484	FAD	P-O2P	-3.69	1.39	1.55
8	H	484	FAD	P-O2P	-3.68	1.39	1.55
8	L	484	FAD	P-O2P	-3.68	1.39	1.55
4	A	2474	FMN	C9A-C5A	-2.84	1.36	1.42
4	C	2474	FMN	C9A-C5A	-2.84	1.36	1.42
4	E	2474	FMN	C9A-C5A	-2.83	1.36	1.42
8	I	484	FAD	C2B-C1B	-2.65	1.49	1.53
8	K	484	FAD	C2B-C1B	-2.65	1.49	1.53
8	H	484	FAD	C2B-C1B	-2.63	1.49	1.53
8	L	484	FAD	C2B-C1B	-2.63	1.49	1.53
8	J	484	FAD	C2B-C1B	-2.63	1.49	1.53
8	G	484	FAD	C2B-C1B	-2.63	1.49	1.53
4	F	2474	FMN	C9A-C5A	-2.55	1.37	1.42
4	D	2474	FMN	C9A-C5A	-2.55	1.37	1.42
4	B	2474	FMN	C9A-C5A	-2.55	1.37	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	H	484	FAD	C10-N10	-2.49	1.36	1.39
8	L	484	FAD	C10-N10	-2.49	1.36	1.39
8	J	484	FAD	C10-N10	-2.47	1.36	1.39
8	G	484	FAD	C10-N10	-2.47	1.36	1.39
8	I	484	FAD	C10-N10	-2.42	1.36	1.39
8	K	484	FAD	C10-N10	-2.42	1.36	1.39
4	C	2474	FMN	O4'-C4'	-2.41	1.38	1.43
4	A	2474	FMN	O4'-C4'	-2.41	1.38	1.43
4	E	2474	FMN	O4'-C4'	-2.41	1.38	1.43
8	I	484	FAD	C2-N1	-2.13	1.33	1.38
8	K	484	FAD	C2-N1	-2.13	1.33	1.38
8	H	484	FAD	C2-N1	-2.12	1.33	1.38
8	L	484	FAD	C2-N1	-2.12	1.33	1.38
8	J	484	FAD	C2-N1	-2.11	1.33	1.38
8	G	484	FAD	C2-N1	-2.11	1.33	1.38
4	F	2474	FMN	C9A-N10	-2.08	1.35	1.38
4	D	2474	FMN	C9A-N10	-2.07	1.35	1.38
4	E	2474	FMN	P-O2P	-2.06	1.47	1.54
4	C	2474	FMN	P-O2P	-2.05	1.47	1.54
4	B	2474	FMN	C9A-N10	-2.05	1.35	1.38
4	A	2474	FMN	P-O2P	-2.05	1.47	1.54
8	I	484	FAD	C2A-N1A	2.01	1.37	1.33
8	K	484	FAD	C2A-N1A	2.01	1.37	1.33
8	J	484	FAD	C2A-N1A	2.02	1.37	1.33
8	G	484	FAD	C2A-N1A	2.02	1.37	1.33
8	H	484	FAD	C2A-N1A	2.02	1.37	1.33
8	L	484	FAD	C2A-N1A	2.02	1.37	1.33
8	I	484	FAD	C2A-N3A	2.07	1.35	1.32
8	K	484	FAD	C2A-N3A	2.07	1.35	1.32
8	J	484	FAD	C2A-N3A	2.09	1.35	1.32
8	G	484	FAD	C2A-N3A	2.09	1.35	1.32
4	B	2474	FMN	C4-N3	2.09	1.36	1.33
4	D	2474	FMN	C4-N3	2.09	1.36	1.33
8	H	484	FAD	C2A-N3A	2.09	1.35	1.32
8	L	484	FAD	C2A-N3A	2.09	1.35	1.32
4	F	2474	FMN	C4-N3	2.12	1.36	1.33
5	A	2475	AKG	C3-C2	2.14	1.54	1.51
5	E	2475	AKG	C3-C2	2.16	1.54	1.51
5	C	2475	AKG	C3-C2	2.17	1.54	1.51
8	J	484	FAD	O4B-C4B	2.18	1.50	1.45
8	G	484	FAD	O4B-C4B	2.18	1.50	1.45
8	I	484	FAD	O4B-C4B	2.20	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	K	484	FAD	O4B-C4B	2.20	1.50	1.45
8	H	484	FAD	O4B-C4B	2.21	1.50	1.45
8	L	484	FAD	O4B-C4B	2.21	1.50	1.45
4	E	2474	FMN	C4-N3	2.22	1.37	1.33
4	A	2474	FMN	C4-N3	2.23	1.37	1.33
4	C	2474	FMN	C4-N3	2.24	1.37	1.33
4	C	2474	FMN	C4A-N5	2.27	1.36	1.33
4	A	2474	FMN	C4A-N5	2.27	1.36	1.33
4	E	2474	FMN	C4A-N5	2.27	1.36	1.33
5	B	2475	AKG	C3-C2	2.34	1.54	1.51
5	D	2475	AKG	C3-C2	2.35	1.54	1.51
5	F	2475	AKG	C3-C2	2.37	1.54	1.51
8	J	484	FAD	C4A-N3A	2.44	1.39	1.35
8	G	484	FAD	C4A-N3A	2.44	1.39	1.35
8	I	484	FAD	C4A-N3A	2.45	1.39	1.35
8	K	484	FAD	C4A-N3A	2.45	1.39	1.35
8	H	484	FAD	C4A-N3A	2.48	1.39	1.35
8	L	484	FAD	C4A-N3A	2.48	1.39	1.35
8	J	484	FAD	C5X-N5	2.53	1.39	1.35
8	G	484	FAD	C5X-N5	2.53	1.39	1.35
4	D	2474	FMN	C10-N1	2.54	1.40	1.35
8	I	484	FAD	C5X-N5	2.54	1.39	1.35
8	K	484	FAD	C5X-N5	2.54	1.39	1.35
8	H	484	FAD	C5X-N5	2.55	1.39	1.35
8	L	484	FAD	C5X-N5	2.55	1.39	1.35
4	F	2474	FMN	C10-N1	2.55	1.40	1.35
4	B	2474	FMN	C10-N1	2.55	1.40	1.35
8	I	484	FAD	C2-N3	2.56	1.43	1.38
8	K	484	FAD	C2-N3	2.56	1.43	1.38
8	J	484	FAD	C2-N3	2.56	1.43	1.38
8	G	484	FAD	C2-N3	2.56	1.43	1.38
8	H	484	FAD	C2-N3	2.56	1.43	1.38
8	L	484	FAD	C2-N3	2.56	1.43	1.38
8	H	484	FAD	O5'-C5'	2.68	1.55	1.44
8	L	484	FAD	O5'-C5'	2.68	1.55	1.44
8	I	484	FAD	O5'-C5'	2.69	1.55	1.44
8	K	484	FAD	O5'-C5'	2.69	1.55	1.44
8	J	484	FAD	O5'-C5'	2.69	1.55	1.44
8	G	484	FAD	O5'-C5'	2.69	1.55	1.44
8	J	484	FAD	C8-C7	2.71	1.48	1.41
8	G	484	FAD	C8-C7	2.71	1.48	1.41
8	I	484	FAD	C8-C7	2.71	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	K	484	FAD	C8-C7	2.71	1.48	1.41
8	H	484	FAD	C8-C7	2.72	1.48	1.41
8	L	484	FAD	C8-C7	2.72	1.48	1.41
8	J	484	FAD	C4-C4X	2.73	1.46	1.41
8	G	484	FAD	C4-C4X	2.73	1.46	1.41
8	I	484	FAD	C4-C4X	2.74	1.46	1.41
8	K	484	FAD	C4-C4X	2.74	1.46	1.41
8	H	484	FAD	C4-C4X	2.75	1.46	1.41
8	L	484	FAD	C4-C4X	2.75	1.46	1.41
8	H	484	FAD	C4X-N5	3.13	1.38	1.33
8	L	484	FAD	C4X-N5	3.13	1.38	1.33
8	J	484	FAD	C4X-N5	3.14	1.38	1.33
8	G	484	FAD	C4X-N5	3.14	1.38	1.33
8	I	484	FAD	C4X-N5	3.17	1.38	1.33
8	K	484	FAD	C4X-N5	3.17	1.38	1.33
8	H	484	FAD	O4B-C1B	3.74	1.46	1.41
8	L	484	FAD	O4B-C1B	3.74	1.46	1.41
8	I	484	FAD	O4B-C1B	3.74	1.46	1.41
8	K	484	FAD	O4B-C1B	3.74	1.46	1.41
8	J	484	FAD	O4B-C1B	3.77	1.46	1.41
8	G	484	FAD	O4B-C1B	3.77	1.46	1.41
3	A	2473	OMT	OD1-SD	3.97	1.54	1.44
3	C	2473	OMT	OD1-SD	3.98	1.54	1.44
3	E	2473	OMT	OD1-SD	3.98	1.54	1.44
8	H	484	FAD	C4-N3	3.99	1.40	1.33
8	L	484	FAD	C4-N3	3.99	1.40	1.33
8	I	484	FAD	C4-N3	4.01	1.40	1.33
8	K	484	FAD	C4-N3	4.01	1.40	1.33
8	J	484	FAD	C4-N3	4.01	1.40	1.33
8	G	484	FAD	C4-N3	4.01	1.40	1.33
3	D	2473	OMT	OD2-SD	4.14	1.54	1.44
3	B	2473	OMT	OD2-SD	4.15	1.54	1.44
3	F	2473	OMT	OD2-SD	4.17	1.55	1.44
8	I	484	FAD	C4X-C10	4.22	1.48	1.40
8	K	484	FAD	C4X-C10	4.22	1.48	1.40
8	H	484	FAD	C4X-C10	4.23	1.48	1.40
8	L	484	FAD	C4X-C10	4.23	1.48	1.40
8	J	484	FAD	C4X-C10	4.23	1.48	1.40
8	G	484	FAD	C4X-C10	4.23	1.48	1.40
3	E	2473	OMT	OD2-SD	4.64	1.56	1.44
3	C	2473	OMT	OD2-SD	4.65	1.56	1.44
3	A	2473	OMT	OD2-SD	4.67	1.56	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	2473	OMT	OD1-SD	5.12	1.57	1.44
3	B	2473	OMT	OD1-SD	5.13	1.57	1.44
3	D	2473	OMT	OD1-SD	5.14	1.57	1.44
8	I	484	FAD	C9A-N10	5.75	1.47	1.38
8	K	484	FAD	C9A-N10	5.75	1.47	1.38
8	J	484	FAD	C9A-N10	5.76	1.47	1.38
8	G	484	FAD	C9A-N10	5.76	1.47	1.38
8	H	484	FAD	C9A-N10	5.77	1.47	1.38
8	L	484	FAD	C9A-N10	5.77	1.47	1.38
5	C	2475	AKG	O5-C2	7.57	1.35	1.22
5	E	2475	AKG	O5-C2	7.59	1.35	1.22
5	A	2475	AKG	O5-C2	7.60	1.35	1.22
5	B	2475	AKG	O5-C2	8.13	1.36	1.22
5	F	2475	AKG	O5-C2	8.16	1.36	1.22
5	D	2475	AKG	O5-C2	8.16	1.36	1.22

All (210) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	2473	OMT	OD2-SD-CG	-18.10	96.68	108.26
3	F	2473	OMT	OD2-SD-CG	-18.08	96.69	108.26
3	B	2473	OMT	OD2-SD-CG	-18.06	96.70	108.26
3	C	2473	OMT	OD2-SD-CE	-10.72	97.22	108.91
3	A	2473	OMT	OD2-SD-CE	-10.70	97.24	108.91
3	E	2473	OMT	OD2-SD-CE	-10.68	97.26	108.91
4	C	2474	FMN	O5'-P-O1P	-9.01	84.42	107.08
4	A	2474	FMN	O5'-P-O1P	-9.01	84.44	107.08
4	E	2474	FMN	O5'-P-O1P	-9.00	84.46	107.08
4	E	2474	FMN	O4'-C4'-C5'	-6.53	95.87	110.09
4	C	2474	FMN	O4'-C4'-C5'	-6.53	95.87	110.09
4	A	2474	FMN	O4'-C4'-C5'	-6.52	95.87	110.09
4	F	2474	FMN	O4'-C4'-C3'	-6.06	93.36	108.96
4	D	2474	FMN	O4'-C4'-C3'	-6.06	93.37	108.96
4	B	2474	FMN	O4'-C4'-C3'	-6.06	93.37	108.96
3	F	2473	OMT	OD1-SD-CE	-5.91	102.46	108.91
3	B	2473	OMT	OD1-SD-CE	-5.90	102.47	108.91
3	D	2473	OMT	OD1-SD-CE	-5.89	102.49	108.91
4	B	2474	FMN	C1'-N10-C9A	-5.66	112.27	118.83
4	D	2474	FMN	C1'-N10-C9A	-5.63	112.30	118.83
4	F	2474	FMN	C1'-N10-C9A	-5.62	112.31	118.83
5	F	2475	AKG	C4-C3-C2	-5.45	98.58	112.94
5	B	2475	AKG	C4-C3-C2	-5.44	98.59	112.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	D	2475	AKG	C4-C3-C2	-5.44	98.61	112.94
4	A	2474	FMN	O4'-C4'-C3'	-5.28	95.37	108.96
4	C	2474	FMN	O4'-C4'-C3'	-5.28	95.38	108.96
4	E	2474	FMN	O4'-C4'-C3'	-5.28	95.38	108.96
5	A	2475	AKG	C4-C3-C2	-5.15	99.36	112.94
5	C	2475	AKG	C4-C3-C2	-5.15	99.36	112.94
5	E	2475	AKG	C4-C3-C2	-5.15	99.37	112.94
8	I	484	FAD	C4X-C4-N3	-4.67	117.42	123.52
8	K	484	FAD	C4X-C4-N3	-4.67	117.42	123.52
8	H	484	FAD	C4X-C4-N3	-4.67	117.42	123.52
8	L	484	FAD	C4X-C4-N3	-4.67	117.42	123.52
8	J	484	FAD	C4X-C4-N3	-4.65	117.44	123.52
8	G	484	FAD	C4X-C4-N3	-4.65	117.44	123.52
4	E	2474	FMN	O3P-P-O1P	-4.50	95.93	110.63
4	A	2474	FMN	O3P-P-O1P	-4.49	95.96	110.63
4	C	2474	FMN	O3P-P-O1P	-4.49	95.97	110.63
3	A	2473	OMT	OD2-SD-CG	-4.46	105.41	108.26
3	E	2473	OMT	OD2-SD-CG	-4.45	105.42	108.26
3	C	2473	OMT	OD2-SD-CG	-4.42	105.44	108.26
4	E	2474	FMN	C4A-C4-N3	-4.27	117.94	123.52
4	A	2474	FMN	C4A-C4-N3	-4.27	117.94	123.52
4	C	2474	FMN	C4A-C4-N3	-4.26	117.95	123.52
4	F	2474	FMN	C4A-C10-N10	-4.12	117.53	120.52
4	B	2474	FMN	C4A-C10-N10	-4.10	117.54	120.52
4	D	2474	FMN	C4A-C10-N10	-4.09	117.55	120.52
4	E	2474	FMN	C4A-C10-N10	-4.01	117.61	120.52
4	C	2474	FMN	C4A-C10-N10	-4.00	117.61	120.52
4	A	2474	FMN	C4A-C10-N10	-3.98	117.62	120.52
8	H	484	FAD	C4-C4X-C10	-3.96	117.40	119.94
8	L	484	FAD	C4-C4X-C10	-3.96	117.40	119.94
8	I	484	FAD	C4-C4X-C10	-3.95	117.41	119.94
8	K	484	FAD	C4-C4X-C10	-3.95	117.41	119.94
8	J	484	FAD	C4-C4X-C10	-3.94	117.42	119.94
8	G	484	FAD	C4-C4X-C10	-3.94	117.42	119.94
8	J	484	FAD	N3A-C2A-N1A	-3.89	125.81	128.87
8	G	484	FAD	N3A-C2A-N1A	-3.89	125.81	128.87
4	D	2474	FMN	C4A-C4-N3	-3.87	118.46	123.52
8	H	484	FAD	O2A-PA-O3P	-3.87	88.67	105.27
8	L	484	FAD	O2A-PA-O3P	-3.87	88.67	105.27
4	B	2474	FMN	C4A-C4-N3	-3.87	118.46	123.52
8	J	484	FAD	O2A-PA-O3P	-3.87	88.68	105.27
8	G	484	FAD	O2A-PA-O3P	-3.87	88.68	105.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	I	484	FAD	N3A-C2A-N1A	-3.87	125.83	128.87
8	K	484	FAD	N3A-C2A-N1A	-3.87	125.83	128.87
8	I	484	FAD	O2A-PA-O3P	-3.87	88.69	105.27
8	K	484	FAD	O2A-PA-O3P	-3.87	88.69	105.27
8	H	484	FAD	N3A-C2A-N1A	-3.86	125.84	128.87
8	L	484	FAD	N3A-C2A-N1A	-3.86	125.84	128.87
4	F	2474	FMN	C4A-C4-N3	-3.85	118.49	123.52
8	H	484	FAD	N3-C2-N1	-3.68	121.49	127.69
8	L	484	FAD	N3-C2-N1	-3.68	121.49	127.69
8	J	484	FAD	N3-C2-N1	-3.68	121.50	127.69
8	G	484	FAD	N3-C2-N1	-3.68	121.50	127.69
4	D	2474	FMN	O3P-P-O2P	-3.66	94.00	107.44
4	B	2474	FMN	O3P-P-O2P	-3.66	94.00	107.44
4	F	2474	FMN	O3P-P-O2P	-3.66	94.00	107.44
8	I	484	FAD	N3-C2-N1	-3.66	121.53	127.69
8	K	484	FAD	N3-C2-N1	-3.66	121.53	127.69
4	F	2474	FMN	O2'-C2'-C1'	-3.21	102.00	109.93
4	B	2474	FMN	O2'-C2'-C1'	-3.20	102.03	109.93
4	D	2474	FMN	O2'-C2'-C1'	-3.19	102.05	109.93
4	D	2474	FMN	C8M-C8-C7	-3.14	113.97	120.73
4	F	2474	FMN	C8M-C8-C7	-3.14	113.98	120.73
4	B	2474	FMN	C8M-C8-C7	-3.14	113.98	120.73
4	E	2474	FMN	C1'-N10-C9A	-2.96	115.39	118.83
3	E	2473	OMT	OD1-SD-CE	-2.96	105.69	108.91
4	C	2474	FMN	C1'-N10-C9A	-2.95	115.40	118.83
3	C	2473	OMT	OD1-SD-CE	-2.95	105.69	108.91
3	A	2473	OMT	OD1-SD-CE	-2.95	105.70	108.91
4	A	2474	FMN	C1'-N10-C9A	-2.95	115.41	118.83
8	H	484	FAD	O4B-C1B-N9A	-2.92	102.59	108.11
8	L	484	FAD	O4B-C1B-N9A	-2.92	102.59	108.11
8	J	484	FAD	O4B-C1B-N9A	-2.91	102.61	108.11
8	G	484	FAD	O4B-C1B-N9A	-2.91	102.61	108.11
8	I	484	FAD	O4B-C1B-N9A	-2.90	102.63	108.11
8	K	484	FAD	O4B-C1B-N9A	-2.90	102.63	108.11
3	E	2473	OMT	OD2-SD-OD1	-2.61	110.18	116.90
3	A	2473	OMT	OD2-SD-OD1	-2.61	110.18	116.90
3	C	2473	OMT	OD2-SD-OD1	-2.61	110.19	116.90
4	E	2474	FMN	C9A-C5A-N5	-2.52	118.07	122.18
4	A	2474	FMN	C9A-C5A-N5	-2.51	118.09	122.18
4	C	2474	FMN	C9A-C5A-N5	-2.50	118.11	122.18
8	H	484	FAD	C5X-C9A-N10	-2.25	115.89	117.58
8	L	484	FAD	C5X-C9A-N10	-2.25	115.89	117.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	J	484	FAD	C5X-C9A-N10	-2.25	115.89	117.58
8	G	484	FAD	C5X-C9A-N10	-2.25	115.89	117.58
8	I	484	FAD	C5X-C9A-N10	-2.23	115.91	117.58
8	K	484	FAD	C5X-C9A-N10	-2.23	115.91	117.58
4	C	2474	FMN	O2'-C2'-C1'	-2.22	104.44	109.93
4	A	2474	FMN	O2'-C2'-C1'	-2.22	104.45	109.93
4	E	2474	FMN	O2'-C2'-C1'	-2.22	104.45	109.93
4	F	2474	FMN	C4-C4A-N5	-2.20	116.02	118.70
4	B	2474	FMN	C4-C4A-N5	-2.19	116.03	118.70
4	D	2474	FMN	C4-C4A-N5	-2.17	116.06	118.70
8	I	484	FAD	C4X-C10-N10	-2.15	118.96	120.52
8	K	484	FAD	C4X-C10-N10	-2.15	118.96	120.52
8	H	484	FAD	C4X-C10-N10	-2.14	118.96	120.52
8	L	484	FAD	C4X-C10-N10	-2.14	118.96	120.52
8	J	484	FAD	C4X-C10-N10	-2.11	118.98	120.52
8	G	484	FAD	C4X-C10-N10	-2.11	118.98	120.52
4	D	2474	FMN	O2'-C2'-C3'	2.02	114.15	108.96
4	B	2474	FMN	O2'-C2'-C3'	2.02	114.17	108.96
4	F	2474	FMN	O2'-C2'-C3'	2.03	114.18	108.96
5	E	2475	AKG	C3-C4-C5	2.03	116.73	112.78
5	C	2475	AKG	C3-C4-C5	2.03	116.74	112.78
5	A	2475	AKG	C3-C4-C5	2.04	116.75	112.78
4	C	2474	FMN	C6-C5A-N5	2.06	121.48	118.92
4	A	2474	FMN	C6-C5A-N5	2.06	121.48	118.92
4	E	2474	FMN	C6-C5A-N5	2.07	121.50	118.92
4	F	2474	FMN	C8M-C8-C9	2.15	126.41	120.33
4	B	2474	FMN	C8M-C8-C9	2.15	126.41	120.33
4	D	2474	FMN	C8M-C8-C9	2.15	126.41	120.33
4	C	2474	FMN	O3P-P-O2P	2.35	116.08	107.44
4	E	2474	FMN	O3P-P-O2P	2.36	116.10	107.44
4	A	2474	FMN	O3P-P-O2P	2.36	116.11	107.44
8	J	484	FAD	C2A-N1A-C6A	2.42	123.09	118.77
8	G	484	FAD	C2A-N1A-C6A	2.42	123.09	118.77
8	H	484	FAD	C2A-N1A-C6A	2.42	123.09	118.77
8	L	484	FAD	C2A-N1A-C6A	2.42	123.09	118.77
8	I	484	FAD	C2A-N1A-C6A	2.43	123.10	118.77
8	K	484	FAD	C2A-N1A-C6A	2.43	123.10	118.77
3	C	2473	OMT	CB-CA-N	2.50	117.56	110.54
3	E	2473	OMT	CB-CA-N	2.50	117.57	110.54
3	A	2473	OMT	CB-CA-N	2.51	117.58	110.54
4	B	2474	FMN	C5A-C9A-N10	2.52	119.46	117.58
4	D	2474	FMN	C5A-C9A-N10	2.54	119.48	117.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	2474	FMN	C5A-C9A-N10	2.55	119.49	117.58
4	B	2474	FMN	O2P-P-O5'	2.67	114.52	106.72
4	F	2474	FMN	O2P-P-O5'	2.67	114.52	106.72
4	D	2474	FMN	O2P-P-O5'	2.68	114.55	106.72
4	B	2474	FMN	O3P-P-O5'	2.72	114.66	106.72
4	F	2474	FMN	O3P-P-O5'	2.72	114.66	106.72
4	D	2474	FMN	O3P-P-O5'	2.72	114.67	106.72
3	D	2473	OMT	CB-CA-N	2.85	118.55	110.54
3	B	2473	OMT	CB-CA-N	2.85	118.55	110.54
3	F	2473	OMT	CB-CA-N	2.85	118.57	110.54
3	B	2473	OMT	CE-SD-CG	3.03	118.06	105.54
3	D	2473	OMT	CE-SD-CG	3.03	118.07	105.54
3	F	2473	OMT	CE-SD-CG	3.04	118.08	105.54
8	J	484	FAD	O2A-PA-O1A	3.30	129.72	112.56
8	G	484	FAD	O2A-PA-O1A	3.30	129.72	112.56
8	I	484	FAD	O2A-PA-O1A	3.30	129.73	112.56
8	K	484	FAD	O2A-PA-O1A	3.30	129.73	112.56
8	H	484	FAD	O2A-PA-O1A	3.30	129.73	112.56
8	L	484	FAD	O2A-PA-O1A	3.30	129.73	112.56
4	F	2474	FMN	C4A-N5-C5A	3.53	120.89	116.72
4	B	2474	FMN	C4A-N5-C5A	3.54	120.90	116.72
4	D	2474	FMN	C4A-N5-C5A	3.57	120.93	116.72
4	F	2474	FMN	C4-N3-C2	3.72	118.26	115.16
4	B	2474	FMN	C4-N3-C2	3.76	118.30	115.16
4	D	2474	FMN	C4-N3-C2	3.78	118.31	115.16
5	F	2475	AKG	C3-C4-C5	3.82	120.21	112.78
5	D	2475	AKG	C3-C4-C5	3.82	120.21	112.78
5	B	2475	AKG	C3-C4-C5	3.82	120.22	112.78
4	E	2474	FMN	C4-C4A-C10	4.07	122.55	119.94
4	C	2474	FMN	C4-C4A-C10	4.08	122.55	119.94
4	A	2474	FMN	C4-C4A-C10	4.10	122.56	119.94
4	C	2474	FMN	C4-N3-C2	4.13	118.60	115.16
4	E	2474	FMN	C4-N3-C2	4.14	118.61	115.16
4	A	2474	FMN	C4-N3-C2	4.14	118.61	115.16
4	E	2474	FMN	C5A-C9A-N10	4.35	120.84	117.58
4	C	2474	FMN	C5A-C9A-N10	4.35	120.84	117.58
4	A	2474	FMN	C5A-C9A-N10	4.35	120.84	117.58
4	C	2474	FMN	C4A-N5-C5A	4.36	121.86	116.72
4	A	2474	FMN	C4A-N5-C5A	4.36	121.86	116.72
4	E	2474	FMN	C4A-N5-C5A	4.37	121.87	116.72
4	A	2474	FMN	O2P-P-O5'	4.63	120.24	106.72
4	C	2474	FMN	O2P-P-O5'	4.63	120.25	106.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	2474	FMN	O2P-P-O5'	4.64	120.27	106.72
4	E	2474	FMN	O3P-P-O5'	4.97	121.24	106.72
4	A	2474	FMN	O3P-P-O5'	4.98	121.26	106.72
4	C	2474	FMN	O3P-P-O5'	4.99	121.29	106.72
3	E	2473	OMT	CE-SD-CG	5.37	127.70	105.54
3	A	2473	OMT	CE-SD-CG	5.37	127.72	105.54
3	C	2473	OMT	CE-SD-CG	5.37	127.72	105.54
3	D	2473	OMT	OD1-SD-CG	5.63	111.87	108.26
4	F	2474	FMN	C4-C4A-C10	5.67	123.57	119.94
3	B	2473	OMT	OD1-SD-CG	5.68	111.90	108.26
4	B	2474	FMN	C4-C4A-C10	5.68	123.58	119.94
4	D	2474	FMN	C4-C4A-C10	5.70	123.59	119.94
3	F	2473	OMT	OD1-SD-CG	5.70	111.91	108.26
8	I	484	FAD	C4-N3-C2	7.84	121.70	115.16
8	K	484	FAD	C4-N3-C2	7.84	121.70	115.16
8	J	484	FAD	C4-N3-C2	7.85	121.71	115.16
8	G	484	FAD	C4-N3-C2	7.85	121.71	115.16
8	H	484	FAD	C4-N3-C2	7.88	121.73	115.16
8	L	484	FAD	C4-N3-C2	7.88	121.73	115.16

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

31 monomers are involved in 180 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	2473	OMT	3	0
4	A	2474	FMN	4	0
6	A	2476	F3S	1	0
4	B	2474	FMN	7	0
5	B	2475	AKG	2	0
6	B	2476	F3S	3	0
3	C	2473	OMT	3	0
4	C	2474	FMN	3	0
6	C	2476	F3S	1	0
4	D	2474	FMN	7	0
5	D	2475	AKG	2	0
6	D	2476	F3S	3	0
3	E	2473	OMT	3	0
4	E	2474	FMN	4	0
6	E	2476	F3S	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	F	2473	OMT	1	0
4	F	2474	FMN	6	0
5	F	2475	AKG	1	0
6	F	2476	F3S	3	0
7	G	483	SF4	2	0
8	G	484	FAD	18	0
7	H	483	SF4	2	0
8	H	484	FAD	18	0
7	I	483	SF4	2	0
8	I	484	FAD	18	0
7	J	483	SF4	2	0
8	J	484	FAD	18	0
7	K	483	SF4	2	0
8	K	484	FAD	18	0
7	L	483	SF4	2	0
8	L	484	FAD	17	0

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.