



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 21, 2023 – 02:00 PM EDT

PDB ID : 2PFF
Title : Structural Insights of Yeast Fatty Acid Synthase
Authors : Xiong, Y.; Lomakin, I.B.; Steitz, T.A.
Deposited on : 2007-04-04
Resolution : 4.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.35
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35

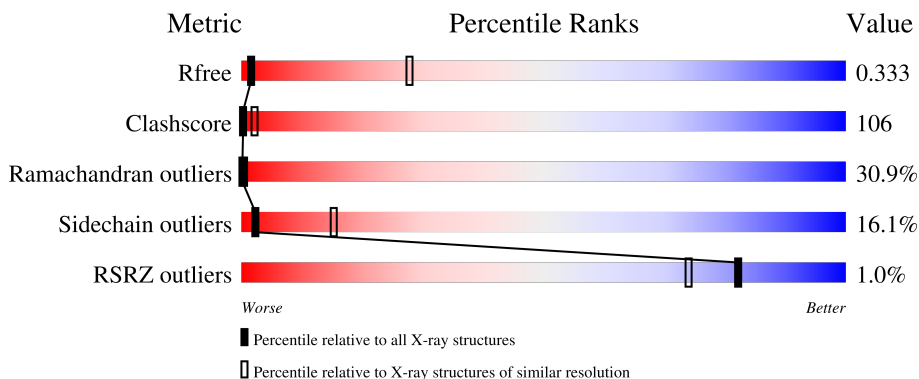
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.00 Å.

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



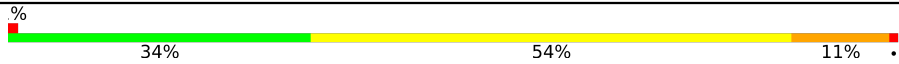

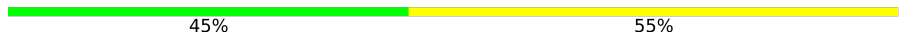

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1087 (4.30-3.70)
Clashscore	141614	1148 (4.30-3.70)
Ramachandran outliers	138981	1108 (4.30-3.70)
Sidechain outliers	138945	1099 (4.30-3.70)
RSRZ outliers	127900	1028 (4.34-3.66)

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

Mol	Chain	Length	Quality of chain
1	A	1688	
1	D	1688	
1	G	1688	
2	B	2006	
2	E	2006	

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Mol	Chain	Length	Quality of chain
2	H	2006	
3	C	65	
3	F	65	
3	I	65	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 71862 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Fatty acid synthase subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	1683	11319	7070	2007	2205	37	0	0	0
1	D	1683	11319	7070	2007	2205	37	0	0	0
1	G	1683	11319	7070	2007	2205	37	0	0	0

- Molecule 2 is a protein called Fatty acid synthase subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	2006	12310	7625	2253	2416	16	0	0	0
2	E	2006	12310	7625	2253	2416	16	0	0	0
2	H	2006	12310	7625	2253	2416	16	0	0	0

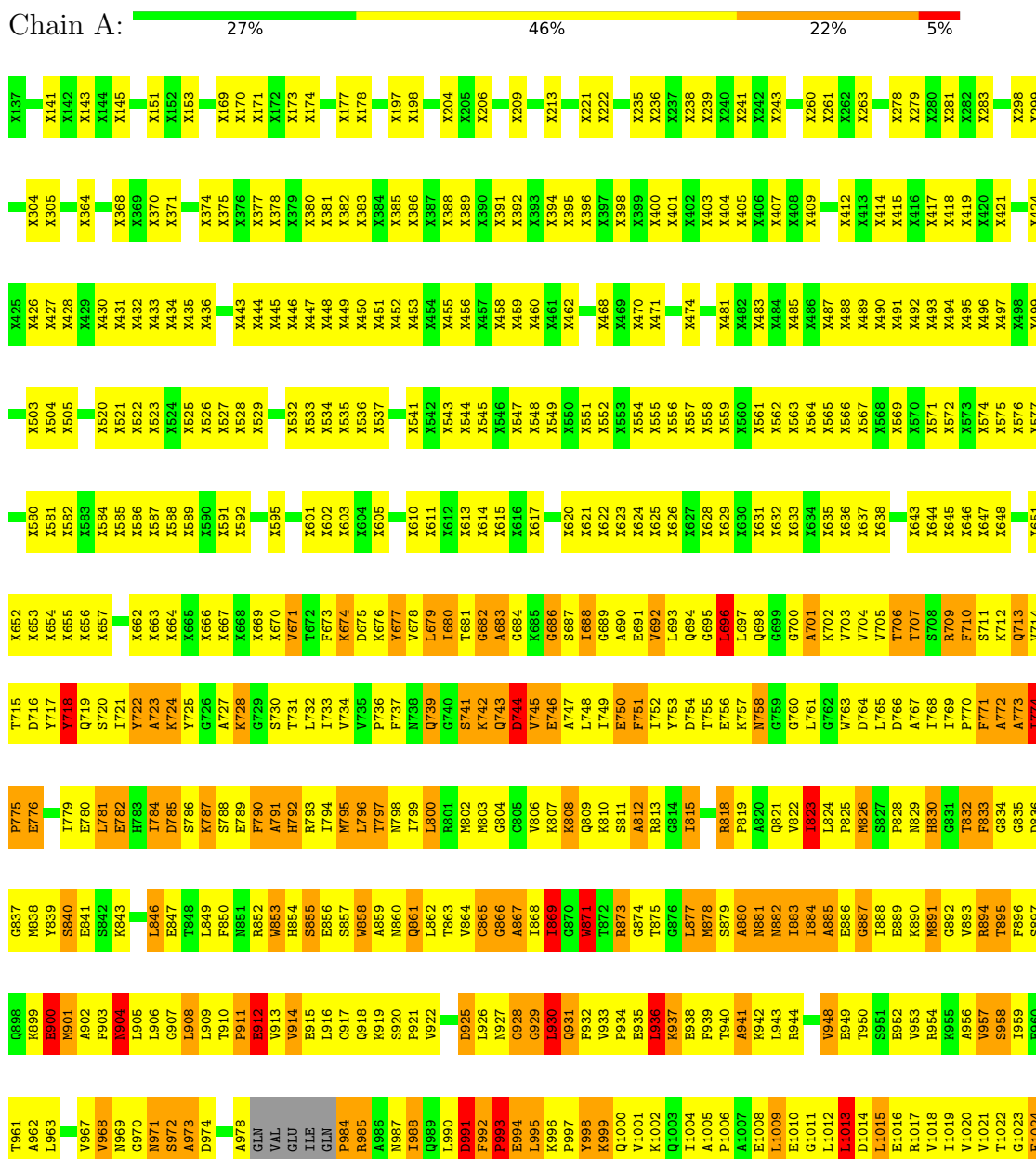
- Molecule 3 is a protein called Tail protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
3	C	65	325	195	65	65	0	0	0
3	F	65	325	195	65	65	0	0	0
3	I	65	325	195	65	65	0	0	0

3 Residue-property plots

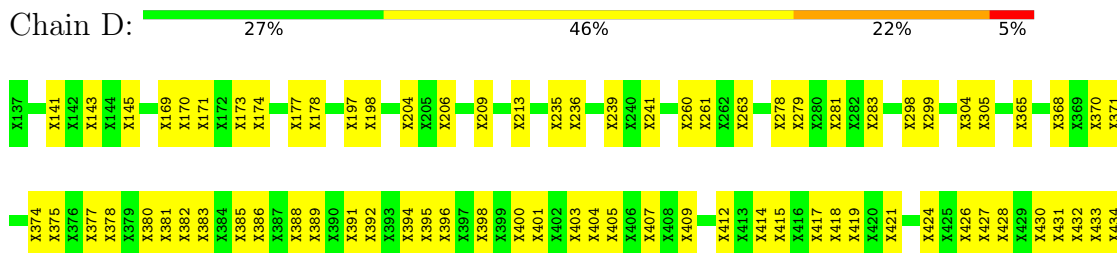
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: Fatty acid synthase subunit alpha



E1025 E1026 Y1027 G1028 Y1029 W1030 G1031 S1032 A1033 R1034 T1035 R1036 W1037 E1038 M1039 E1040 A1041 F1042 G1043 E1044 F1045 S1046 L1047 E1048 G1049 C1050 F1101 E1051 E1052 M1053 G1054 W1055 T1056 W1057 G1058 F1059 I1060 S1061 Y1062 M1063 M1064 G1065 N1066 L1067 K1068 G1069 R1070 Y1071 Y1072 T1073 G1074 W1075 Y1076 D1077 S1078 K1079 E1080 K1081 E1082 P1083 Y1084	D1085 D1086 K1087 D1088 Q1147 H1148 G1149 D1150 Y1151 W1152 D1153 L1154 Y1155 E1156 L1157 T1095 S1096 L1097 L1088 E1099 H1100 S1101 G1102 L1103 R1104 L1105 I1106 E1107 P1108 E1109 L1110 F1111 M1112 G1113 Y1114 M1115 L1116 E1117 K1118 L1119 E1120 M1121 L1122 M1126 E1127 L1128 E1128 G1129 L1129 G1130 E1131 Y1132 M1133 L1134 E1135 L1136 Y1137 K1138 E1139 L1140 G1141 E1141 L1142 D1143 E1144 Y1144 H1146	Q1207 V1208 D1209 P1210 L1211 T1212 L1213 F1214 V1215 L1216 Y1217 L1217 S1218 Y1219 V1220 E1221 A1222 F1223 L1224 A1225 S1226 G1227 L1228 M1228 T1229 L1290 M1291 L1291 Y1292 S1293 E1294 S1295 L1296 Y1296 P1297 E1298 L1299 T1300 P1301 G1302 Y1303 A1304 M1305 A1306 T1307 S1308 Y1309 E1310 S1311 Y1312 D1313 L1314 G1315 Y1316 E1317 A1379 T1318 L1319 L1320 A1382 G1383 L1384 Q1385 L1386 Y1447	D1267 E1268 P1269 Q1270 Y1271 D1272 L1273 Y1274 L1275 Q1276 E1277 S1278 L1280 M1281 E1282 M1283 Y1284 L1285 W1286 Y1287 M1288 E1289 L1290 M1291 Y1292 S1293 E1294 S1295 L1296 Y1296 P1297 E1298 L1299 T1300 P1301 G1302 Y1303 A1304 M1305 A1306 T1307 S1308 Y1309 E1310 S1311 Y1312 D1313 L1314 G1315 Y1316 E1317 A1379 T1318 L1319 L1320 A1382 G1383 L1384 Q1385 L1386 Y1447	C1327 L1328 Y1329 G1330 G1331 L1332 D1333 L1334 L1335 Q1336 E1337 E1338 G1339 S1340 F1341 L1342 F1343 G1344 M1345 M1346 Y1347 A1408 L1409 L1410 T1411 M1412 K1413 L1414 G1415 E1416 L1417 E1417 Y1418 P1419 E1420 L1421 G1422 K1423 L1424 L1425 Y1426 T1427 L1428 A1429 R1430 E1431 H1432 H1433 Y1434 L1435 Y1436 K1437 Y1438 Q1500 L1501 M1502 A1504 M1504 Q1505 E1506 Y1507 M1508	M1388 Q1389 A1390 D1391 L1392 A1393 L1394 M1395 M1396 Y1397 V1398 L1399 P1399 L1400 Y1401 G1402 L1403 V1404 Y1405 M1406 A1407 A1408 T1409 A1410 L1411 D1412 K1413 L1414 G1415 E1416 L1417 Y1418 P1419 E1420 L1421 G1422 K1423 L1424 L1425 Y1426 T1427 L1428 A1429 R1430 E1431 H1432 H1433 Y1434 L1435 Y1436 K1437 Y1438 Q1500 L1501 M1502 A1504 M1504 Q1505 E1506 Y1507 M1508	R1448 K1449 R1450 Q1451 L1452 Y1453 L1454 R1455 L1456 M1457 V1398 Q1458 L1459 L1460 D1461 Y1462 V1463 L1464 M1465 E1466 L1467 E1468 A1469 L1470 K1471 L1472 E1473 A1474 E1475 L1476 L1477 S1478 Y1478 E1480 L1481 Q1482 F1485 L1486 L1487 E1488 R1489 T1490 L1491 E1492 L1493 H1494 A1495 L1496 E1497 E1498 S1499 Q1500 L1501 M1502 A1504 M1504 Q1505 E1506 Y1507 M1508	G1509 M1510 D1511 F1512 Y1513 L1514 R1515 L1516 P1517 Y1517 F1519 L1520 M1581 A1520 L1522 L1523 G1524 A1525 L1526 A1527 L1528 A1529 M1591 L1592 M1593 L1594 G1595 A1596 L1597 Q1598 L1599 D1600 M1601 S1602 G1603 L1604 L1605 T1606 G1607 M1608 R1609 M1610 A1611 K1612 M1613 V1614 D1615 L1616 L1617 L1618 E1619 Q1620 F1621 E1622 S1623 A1624 Y1625 Y1626 P1627 E1628 K1629	F1630 L1631 K1632 T1633 D1634 G1635 V1636 E1637 A1638 F1639 L1640 S1641 M1642 T1643 S1643 F1644 G1645 F1646 G1647 Q1648 L1649 G1650 Q1651 Q1652 A1653 L1654 Y1655 L1656 H1657 L1658 P1659 L1660 D1661 T1662 E1663 Y1670 E1671 Q1672 D1673 L1674 Y1675 L1676 H1677 E1678 L1679 E1680 E1681 Y1682 G1683 I1684 M1685 Y1686 L1687 R1688 Y1689 M1690 L1691 E1692 S1693 A1694 M1695 L1696 G1697 D1698 E1699 L1700 H1701 Y1702 F1703 A1704 P1705 Y1706 T1707 D1708 E1709 L1710 E1711 E1712 D1713 V1714 Y1715 L1716 D1717 P1718 L1719 A1720 M1721 L1722 K1727 S1728 G1729 S1730 L1731 T1732 F1733 M1734 S1735 K1736 M1737 T1738 Q1739 S1740 L1741 D1742 S1743 Y1744 L1745 G1746 X1747 Y1748 X1749 X1750 X1754	X1761 X1762 X1773 X1774 X1775 X1776 X1777 X1778 X1779 X1780 X1781 X1782 X1783 X1784 X1793 X1794 X1795 X1796 X1797 X1798 X1799 X1811 X1812 X1813 X1826 X1827 X1853 X1857 X1860 X1861 X1862 X1864 X1865 X1868 X1872 X1881 X1885 X1886 X1887	X197 X141 X142 X143 X144 X145 X169 X170 X171 X172 X173 X174 X177 X178 X197 X198 X204 X205 X206 X209 X213 X235 X236 X239 X240 X241 X242 X260 X261 X262 X263 X278 X279 X280 X281 X282 X283 X298 X299 X304 X305 X306 X307 X308 X311 X312 X313 X314 X315 X316 X317 X318 X319 X320 X321 X322 X323 X324 X325 X326 X327 X328 X329 X330 X331 X332 X333 X334 X335 X336 X337 X338 X339 X340 X341 X342 X343 X344 X345 X346 X347 X348 X349 X350 X351 X352 X353 X354 X355 X356 X357 X358 X359 X360 X361 X362 X363 X364 X365 X366 X367 X368 X369 X370 X371	X374 X375 X376 X377 X378 X379 X380 X381 X382 X383 X384 X385 X386 X387 X388 X389 X390 X391 X392 X393 X394 X395 X396 X397 X398 X399 X400 X401 X402 X403 X404 X405 X406 X407 X408 X409 X410 X411 X412 X413 X414 X415 X416 X417 X418 X419 X420 X421 X422 X423 X424 X425 X426 X427 X428 X429 X430 X431 X432 X433 X434
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Molecule 1: Fatty acid synthase subunit alpha



L1394	K1395	M1396	G1397	V1398	P1399	I1400	Y1401	F1402	L1403	A1404	M1405	M1406	A1407	A1408	L1409	T1410	S1411	T1412	D1413	L1414	G1415	L1416	S1417	V1418	P1419	A1420	P1421	G1422	K1423	G1424	I1425	L1426	L1427	T1428	H1429	R1430	E1431	H1432	H1433	S1434	S1435	V1436	K1437	Y1438	A1439	S1440	P1441	N1442	L1443	N1444	M1445	K1446	Y1447	R1448	M1449	R1450	Q1451	L1452	V1453	D1333	D1334	F1335	Q1336	E1337	I1338	G1339	S1340	F1341	L1342	F1343	F1344	G1345	M1346	K1347	L1348	A1349	L1350	M1351	L1352	L1353	E1354	E1355	F1356	F1357	H1358	G1359	R1360	T1361	P1362	A1363	E1364	M1365	S1366	R1367	P1368	A1369	T1370	L1371	R1372	R1373	M1374	E1375	E1376	E1377	L1378	A1379	Q1380	Q1381	A1382	G1383	I1384	Q1385	R1386	I1387	M1388	P1389	I1390	D1391	L1392	A1393	D1273	E1274	L1275	Q1276	E1277	R1278	F1279	M1280	I1281	E1282	F1283	M1284	A1285	M1286	V1287	L1288	L1289	L1290	M1291	L1292	L1293	S1294	S1295	G1296	P1297	L1298	K1299	H1300	T1301	S1302	G1303	A1304	K1305	A1306	T1307	Q1308	V1309	E1310	S1311	L1312	D1313	L1314	G1315	V1316	E1317	L1318	L1319	G1320	L1321	L1322	K1323	A1324	R1325	L1326	K1327	C1328	L1329	V1330	G1331	Y1332	L1213	F1214	V1215	L1216	V1217	S1218	V1219	V1220	E1221	A1222	F1223	L1224	A1225	S1226	G1227	L1228	L1229	D1230	P1231	V1232	E1233	M1234	Y1235	Y1236	K1237	L1238	H1239	V1240	S1241	S1242	L1243	L1244	R1245	R1246	S1247	Q1248	S1249	G1250	M1251	G1252	G1253	V1254	S1255	A1256	L1257	L1258	Y1259	L1260	L1261	K1262	D1263	R1264	F1265	K1266	D1267	L1268	P1269	V1270	Q1271	M1272	A1091	K1092	Y1093	E1094	T1095	S1096	L1097	L1098	E1099	H1100	S1101	L1102	L1103	R1104	L1105	L1106	E1107	P1108	E1109	L1110	F1111	M1112	G1113	Y1114	M1115	P1116	E1117	L1118	K1119	G1120	L1121	I1122	H1123	M1064	V1127	L1128	L1129	E1130	L1131	E1132	P1133	F1134	E1135	L1136	S1137	K1138	G1139	T1140	S1141	A1142	L1143	K1144	P1145	K1146	Q1147	L1148	G1149	D1150	K1151	V1152	G1031	S1032	A1033	R1034	T1035	R1036	V1037	M1038	M1039	E1040	A1041	L1042	I1043	E1044	F1045	A1046	L1047	E1048	G1049	C1050	V1051	M1052	M1053	A1054	V1055	I1056	M1057	G1058	F1059	L1060	S1061	L1062	K1063	G1069	R1070	P1071	Y1072	T1073	M1074	V1075	L1076	D1077	L1078	K1079	T1080	K1081	E1082	P1083	L1084	L1085	Q1147	L1086	K1087	D1088	V1089	V1090	L1091	K1092	A1093	R1094	T1095	S1096	V1097	L1098	E1099	H1100	S1101	L1102	L1103	R1104	L1105	L1106	E1107	P1108	E1109	L1110	F1111	M1112	G1113	Y1114	M1115	P1116	E1117	L1118	K1119	G1120	L1121	I1122	H1123	M1064	V1127	L1128	L1129	E1130	L1131	E1132	P1133	F1134	E1135	L1136	S1137	K1138	G1139	T1140	S1141	A1142	L1143	K1144	P1145	K1146	Q1147	L1148	G1149	D1150	K1151	V1152	D1273	E1274	L1275	Q1276	E1277	R1278	F1279	M1280	I1281	E1282	F1283	M1284	A1285	M1286	V1287	L1288	L1289	L1290	M1291	L1292	L1293	S1294	S1295	G1296	P1297	L1298	K1299	H1300	T1301	S1302	G1303	A1304	K1305	A1306	T1307	Q1308	V1309	E1310	S1311	L1312	D1313	L1314	G1315	V1316	E1317	L1318	L1319	G1320	L1321	L1322	K1323	A1324	R1325	L1326	K1327	C1328	L1329	V1330	G1331	Y1332	L1213	F1214	V1215	L1216	V1217	S1218	V1219	V1220	E1221	A1222	F1223	L1224	A1225	S1226	G1227	L1228	L1229	D1230	P1231	V1232	E1233	M1234	Y1235	Y1236	K1237	L1238	H1239	V1240	S1241	S1242	L1243	L1244	R1245	R1246	S1247	Q1248	S1249	G1250	M1251	G1252	G1253	V1254	S1255	A1256	L1257	L1258	Y1259	L1260	L1261	K1262	D1263	R1264	F1265	K1266	D1267	L1268	P1269	V1270	Q1271	M1272
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T1454	R1456	E1456	A1457	Q1458	K1460	D1461	V1462	V1463	A1464	N1465	L1466	L1467	E1468	A1469	L1470	K1471	L1472	A1473	A1474	E1475	E1476	I1477	P1478	S1479	E1480	D1481	Q1482	F1485	L1486	L1487	E1488	R1489	T1490	R1491	E1492	I1493	H1494	N1495	T1496	A1497	M1498	S1499	Q1500	R1501	R1502	A1503	A1504	Q1505	Q1506	Q1507	V1508	M1509	N1510	D1511	V1512	T1513	F1514	Y1515	K1516	D1517	P1518	R1519	I1520	P1521	L1522	R1523	G1524	A1525	L1526	A1527	T1528	Y1529	G1530	L1531	T1532	I1533	D1534	D1535	A1536	G1537	V1538	I1539	A1540	S1541	S1542	H1543	T1544	S1545	T1546	K1547	A1548	M1549	M1550	K1551	M1552	E1553	S1554	N1555	T1556	I1557	M1558	E1559	M1560	M1561	K1562	H1563	L1564	G1565	R1566	G1567	S1568	T1569	M1570	P1571	V1572	L1573	G1574	D1575	N1576																																																																								
F1576	Q1577	K1578	F1579	T1580	G1581	H1582	P1583	L1584	G1585	A1586	A1587	G1588	L1589	A1590	M1591	M1592	M1593	M1594	G1595	V1596	G1597	Q1598	L1599	I1600	N1601	S1602	G1603	I1604	T1605	P1606	G1607	L1608	R1609	M1610	A1611	D1612	M1613	V1614	D1615	K1616	L1617	L1618	E1619	Q1620	F1621	E1622	Y1623	V1624	L1625	Y1626	P1627	S1628	L1629	T1630	L1631	K1632	T1633	D1634	N1635																																																																																																																																				
V1636	R1637	V1638	V1639	S1640	L1641	T1642	S1643	F1644	F1645	F1646	G1647	Q1648	K1649	G1650	G1651	A1652	A1653	A1654	V1655	V1656	H1657	P1658	D1659	V1660	L1661	Y1662	G1663	I1664	I1665	T1666	E1667	D1668	R1669	Y1670	M1671	M1672	Y1673	V1674	I1675	Q1676	V1677	S1678	K1679	I1680	E1681	S1682	S1683	A1684	Y1685	K1686	F1687	F1688	H1689	M1690	G1691	M1692	L1693	Y1694	N1695																																																																																																																																				
K1696	L1697	V1698	V1699	K1700	E1701	H1702	H1703	A1704	P1705	V1706	T1707	D1708	E1709	L1710	E1711	E1712	D1713	V1714	Y1715	L1716	D1717	P1718	L1719	A1720	R1721	V1722	K1723	L1724	G1725	S1726	L1727	L1728	I1729	T1730	L1731	T1732	F1733	M1734	S1735	K1736	I1737	I1738	Q1739	S1740	K1741	D1742	S1743	Y1744	X1745	X1746	X1747	X1748	X1749	X1750	X1751	X1752	X1753	X1754	X1755	X1756	X1757	X1758	X1759	X1760	X1761	X1762	X1763	X1764	X1765	X1766	X1767	X1768	X1769	X1770	X1771	X1772	X1773	X1774	X1775	X1776	X1777	X1778	X1779	X1780	X1781	X1782	X1783	X1784	X1785	X1786	X1787	X1788	X1789	X1790	X1791	X1792	X1793	X1794	X1795	X1796	X1797	X1798	X1799	X1800	X1801	X1802	X1803	X1804	X1805	X1806	X1807	X1808	X1809	X1810	X1811	X1812	X1813	X1814	X1815	X1816	X1817	X1818	X1819	X1820	X1821	X1822	X1823	X1824	X1825	X1826	X1827	X1828	X1829	X1830	X1831	X1832	X1833	X1834	X1835	X1836	X1837	X1838	X1839	X1840	X1841	X1842	X1843	X1844	X1845	X1846	X1847	X1848	X1849	X1850	X1851	X1852	X1853	X1854	X1855	X1856	X1857	X1858	X1859	X1860	X1861	X1862	X1863	X1864	X1865	X1866	X1867	X1868	X1869	X1870	X1871	X1872	X1873	X1874	X1875	X1876	X1877	X1878	X1879	X1880	X1881	X1882	X1883	X1884	X1885	X1886	X1887

● Molecule 1: Fatty acid synthase subunit alpha

Chain G:  27% 46% 22% 5%

X137	X368	X369	X141	X142	X143	X144	X145	X151	X152	X153	X169	X170	X171	X172	X173	X174	X177	X178	X197	X198	X204	X205	X206	X209	X213	X221	X222	X235	X236	X237	X238	X239	X240	X241	X242	X243	X260	X261	X262	X263	X278	X280	X281	X283	X304	X305																																																																								
X388	X369	X370	X371	X374	X375	X376	X377	X378	X379	X380	X381	X382	X383	X384	X385	X386	X387	X388	X389	X390	X391	X392	X393	X394	X395	X396	X397	X398	X400	X401	X402	X403	X404	X405	X406	X407	X408	X409	X412	X413	X414	X415	X416	X417	X418	X419	X420	X421	X422	X423	X424	X425	X426	X427	X428	X429	X430	X431	X432	X433	X434	X435	X436	X437	X438	X443	X444	X445	X446	X447	X448	X449	X450	X451	X452	X453	X454	X455	X456	X457	X458	X459	X460	X461	X462	X468	X469	X470	X471	X472	X473	X474	X481	X482	X483	X484	X485	X486	X487	X488	X489	X490	X491	X492	X493	X494	X495	X496	X497	X498	X499	X503						
X504	X505	X520	X521	X522	X523	X524	X525	X526	X527	X528	X529	X532	X533	X534	X535	X536	X537	X541	X542	X543	X544	X545	X546	X547	X548	X549	X550	X551	X552	X553	X554	X555	X556	X557	X558	X559	X560	X561	X562	X563	X564	X565	X566	X567	X568	X569	X570	X571	X572	X573	X574	X575	X576	X577	X580																																																															
X581	X582	X583	X584	X585	X586	X587	X588	X589	X590	X591	X592	X595	X601	X602	X603	X604	X605	X610	X611	X612	X613	X614	X615	X616	X617	X620	X621	X622	X623	X624	X625	X626	X627	X628	X631	X632	X633	X634	X635	X636	X637	X638	X643	X644	X645	X646	X647	X648	X651	X652	X653	X654																																																																		
X655	X656	X657	X662	X663	X664	X665	X666	X667	X668	X669	X670	X671	X672	X673	X674	X675	X676	X677	X678	X679	X680	X681	X682	X683	X684	X685	X686	X687	X688	X689	X690	X691	X692	X693	X694	X695	X696	X697	X698	X699	X700	X701	X702	X703	X704	X705	X706	X707	X708	X709	X710	X711	X712	X713	X714	X715	X716	X717	X718																																																											
O719	S720	Y721	Y722	K723	K724	Y725	G726	S727	G728	G729	S730	L731	L732	I733	V734	V735	P736	G737	D744	V745	E746	R747	L748	I749	E750	A751	E752	G753	D754	T755	E756	K757	N758	G759	G760	L761	G762	D764	L765	D766	D767	A767	I768	I769	P770	P771	F771	A772	A773	A774	P775	E776	I779																																																																	
E780	L781	E782	H783	D784	D785	S786	H787	S788	E789	N790	A791	H792	R793	E794	S795	M796	S797	N798	I799	Q800	V801	R802	M803	G804	C805	V806	K807	R808	Q809	K810	S811	A812	R813	G814	G815	R818	P819	A820	Q821	V822	L823	L824	P825	M826	E827	P828	N829	H830	G831	T832	F833	G834	G835	R836	F837	G838	G839	R840	E841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	Q861	L862	T863	V864	C865	G866	A867	L868	I869	K870	L871	R872	S873	G874	T875	G876	L877	M878	S879	A880	N881	N882	I883	I884	A885	E886	G887	I888	E889	K890	M891	T892	R893	G894	T895	D896	G897	Q898	K899	E900



M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24	M25	M26	M27	M28	M29	M30	M31	M32	M33	M34	M35	M36	M37	M38	M39	M40	M41	M42	M43	M44	M45	M46	M47	M48	M49	M50	M51	M52	M53	M54	M55	M56	M57	M58	M59	M60	M61	M62	M63	M64	M65	M66	M67	M68	M69	M70	M71	M72	M73	M74	M75	M76	M77	M78	M79	M80	M81	M82	M83	M84	M85	M86	M87	M88	M89	M90	M91	M92	M93	M94	M95	M96	M97	M98	M99	M100	M101	M102	M103	M104	M105	M106	M107	M108	M109	M110	M111	M112	M113	M114	M115	M116	M117	M118	M119	M120	M121	M122	M123	M124	M125	M126	M127	M128	M129	M130	M131	M132	M133	M134	M135	M136	M137	M138	M139	M140	M141	M142	M143	M144	M145	M146	M147	M148	M149	M150	M151	M152	M153	M154	M155	M156	M157	M158	M159	M160	M161	M162	M163	M164	M165	M166	M167	M168	M169	M170	M171	M172	M173	M174	M175	M176	M177	M178	M179	M180	M181	M182	M183	M184	M185	M186	M187	M188	M189	M190	M191	M192	M193	M194	M195	M196	M197	M198	M199	M200	M201	M202	M203	M204	M205	M206	M207	M208	M209	M210	M211	M212	M213	M214	M215	M216	M217	M218	M219	M220	M221	M222	M223	M224	M225	M226	M227	M228	M229	M230	M231	M232	M233	M234	M235	M236	M237	M238	M239	M240	M241	M242	M243	M244	M245	M246	M247	M248	M249	M250	M251	M252	M253	M254	M255	M256	M257	M258	M259	M260	M261	M262	M263	M264	M265	M266	M267	M268	M269	M270	M271	M272	M273	M274	M275	M276	M277	M278	M279	M280	M281	M282	M283	M284	M285	M286	M287	M288	M289	M290	M291	M292	M293	M294	M295	M296	M297	M298	M299	M300	M301	M302	M303	M304	M305	M306	M307	M308	M309	M310	M311	M312	M313	M314	M315	M316	M317	M318	M319	M320	M321	M322	M323	M324	M325	M326	M327	M328	M329	M330	M331	M332	M333	M334	M335	M336	M337	M338	M339	M340	M341	M342	M343	M344	M345	M346	M347	M348	M349	M350	M351	M352	M353	M354	M355	M356	M357	M358	M359	M360	M361	M362	M363	M364	M365	M366	M367	M368	M369	M370	M371	M372	M373	M374	M375	M376	M377	M378	M379	M380	M381	M382	M383	M384	M385	M386	M387	M388	M389	M390	M391	M392	M393	M394	M395	M396	M397	M398	M399	M400	M401	M402	M403	M404	M405	M406	M407	M408	M409	M410	M411	M412	M413	M414	M415	M416	M417	M418	M419	M420	M421	M422	M423	M424	M425	M426	M427	M428	M429	M430	M431	M432	M433	M434	M435	M436	M437	M438	M439	M440	M441	M442	M443	M444	M445	M446	M447	M448	M449	M450	M451	M452	M453	M454	M455	M456	M457	M458	M459	M460	M461	M462	M463	M464	M465	M466	M467	M468	M469	M470	M471	M472	M473	M474	M475	M476	M477	M478	M479	M480	M481	M482	M483	M484	M485	M486	M487	M488	M489	M490	M491	M492	M493	M494	M495	M496	M497	M498	M499	M500	M501	M502	M503	M504	M505	M506	M507	M508	M509	M510	M511	M512	M513	M514	M515	M516	M517	M518	M519	M520	M521	M522	M523	M524	M525	M526	M527	M528	M529	M530	M531	M532	M533	M534	M535	M536	M537	M538	M539	M540	M541	M542	M543	M544	M545	M546	M547	M548	M549	M550	M551	M552	M553	M554	M555	M556	M557	M558	M559	M560	M561	M562	M563	M564	M565	M566	M567	M568	M569	M570	M571	M572	M573	M574	M575	M576	M577	M578	M579	M580	M581	M582	M583	M584	M585	M586	M587	M588	M589	M590	M591	M592	M593	M594	M595	M596	M597	M598	M599	M600	M601	M602	M603	M604	M605	M606	M607	M608	M609	M610	M611	M612	M613	M614	M615	M616	M617	M618	M619	M620	M621	M622	M623	M624	M625	M626	M627	M628	M629	M630	M631	M632	M633	M634	M635	M636	M637	M638	M639	M640	M641	M642	M643	M644	M645	M646	M647	M648	M649	M650	M651	M652	M653	M654	M655	M656	M657	M658	M659	M660	M661	M662	M663	M664	M665	M666	M667	M668	M669	M670	M671	M672	M673	M674	M675	M676	M677	M678	M679	M680	M681	M682	M683	M684	M685	M686	M687	M688	M689	M690	M691	M692	M693	M694	M695	M696	M697	M698	M699	M700	M701	M702	M703	M704	M705	M706	M707	M708	M709	M710	M711	M712	M713	M714	M715	M716	M717	M718	M719	M720	M721	M722	M723	M724	M725	M726	M727	M728	M729	M730	M731	M732	M733	M734	M735	M736	M737	M738	M739	M740	M741	M742	M743	M744	M745	M746	M747	M748	M749	M750	M751	M752	M753	M754	M755	M756	M757	M758	M759	M760	M761	M762	M763	M764	M765	M766	M767	M768	M769	M770	M771	M772	M773	M774	M775	M776	M777	M778	M779	M780	M781	M782	M783	M784	M785	M786	M787	M788	M789	M790	M791	M792	M793	M794	M795	M796	M797	M798	M799	M800	M801	M802	M803	M804	M805	M806	M807	M808	M809	M810	M811	M812	M813	M814	M815	M816	M817	M818	M819	M820	M821	M822	M823	M824	M825	M826	M827	M828	M829	M830	M831	M832	M833	M834	M835	M836	M837	M838	M839	M840	M841	M842	M843	M844	M845	M846	M847	M848	M849	M850	M851	M852	M853	M854	M855	M856	M857	M858	M859	M860	M861	M862	M863	M864	M865	M866	M867	M868	M869	M870	M871	M872	M873	M874	M875	M876	M877	M878	M879	M880	M881	M882	M883	M884	M885	M886	M887	M888	M889	M890	M891	M892	M893	M894	M895	M896	M897	M898	M899	M900	M901	M902	M903	M904	M905	M906	M907	M908	M909	M910	M911	M912	M913	M914	M915	M916	M917	M918	M919	M920	M921	M922	M923	M924	M925	M926	M927	M928	M929	M930	M931	M932	M933	M934	M935	M936	M937	M938	M939	M940	M941	M942	M943	M944	M945	M946	M947	M948	M949	M950	M951	M952	M953	M954	M955	M956	M957	M958	M959	M960	M961	M962	M963	M964	M965	M966	M967	M968	M969	M970	M971	M972	M973	M974	M975	M976	M977	M978	M979	M980	M981	M982	M983	M984	M985	M986	M987	M988	M989	M990	M991	M992	M993	M994	M995	M996	M997	M998	M999	X1000	X1001	X1002	X1003	X1004	X1005	X1006	X1007	X1008	X1009	X1010	X1011	X1012	X1013	X1014	X1015	X1016	X1017	X1018	X1019	X1020	X1021	X1022	X1023	X1024	X1025	X1026	X1027	X1028	X1029	X1030	X1031	X1032	X1033	X1034	X1035	X1036	X1037	X1038	X1039	X1040	X1041	X1042	X1043	X1044	X1045	X1046	X1047	X1048
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X1181	X1182	X1183	X1192	X1193	X1194	X1195	X1196	X1197	X1198	X1199	X1200	X1201	X1202	X1205	X1206	X1207	X1208	X1209	X1210	X1211	X1212	X1213	X1214	X1215	X1220	X1221	X1222	X1225	X1226	X1234	X1235	X1236	X1246	X1247	X1248	X1249	X1250	X1251	X1252	X1253	X1256	X1257	X1258	X1259	X1260	X1261	X1262	X1263	X1264	X1265	X1266								
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V1875	E1876	R1877	L1878	K1879	K1880	L1881	T1882	G1883	M1884	L1885	V1886	E1887	L1888	M1889	M1890	L1891	M1892	L1893	E1894	M1895	Q1896	Q1897	Y1898	V1899	A1900	A1901	G1902	L1903	L1904	R1905	A1906	D1907	L1908	T1909	V1910	T1911	N1912	V1913	L1914	M1915	F1916	L1917	X1918	L1919	Q1920	L1921	L1924	L1925	E1926	L1927	Q1928	L1929	S1930	L1931	L1932	L1933	E1934	E1935	
V1936	E1937	G1938	H1939	L1940	X1948	X1949	X1950	X1951	X1957	X1960	X1961	X1962	X1963	X1964	X1965	X1966	X1967	X1968	X1969	X1970	X1971	X1972	X1973	X1974	X1975	X1976	X1981	X1982	X1983	X1984	X1985	X1986	X1987	X1988	X1989	X1990	X1991	X1995	X1996	X2000	X2001	X2002	X2003	X2004	X2005	X2006	X2007	X2008	X2009	X2010	X2011	X2012	X2013						
X2019	X2020	X2021	X2022	X2023	X2024	X2028	X2029	X2030	X2031	X2032	X2033	X2034	X2035	X2036	X2037	X2038	X2039	X2040	X2041	X2042	X2043	X2047	X2048	X2049	X2050	X2051	X1981	X1982	X1983	X1984	X1985	X1986	X1987	X1988	X1989	X1990	X1991	X1995	X1996	X2000	X2001	X2002	X2003	X2004	X2005	X2006	X2007	X2008	X2009	X2010	X2011	X2012	X2013						

● Molecule 2: Fatty acid synthase subunit beta



X973	X897	X809	X726	X660	X570	I501	K441	L377	V951	S191	M125	K63	M1
X974	X898	X810	X727	X651	X571	I502	D442	V378	T252	A192	Y126	F64	D2
X975	X899	X811	X728	X652	X572	D503	L443	V379	K254	A193	A253	A253	A3
X976	X900	X812	X729	X653	F504	F504	V444	V380	K254	T194	L127	L65	Y4
X977	X905	X813	X730	X654	G505	K445	G381	G381	L255	L195	R130	Y67	S5
X978	X906	X814	X731	X655	F506	P506	K445	P382	L256	S196	L131	V68	L9
X982	X907	X815	X732	X656	G507	G507	N447	P383	G257	E197	M132	S69	T10
X983	X917	X816	X735	X657	G508	G508	V448	Q984	F258	L198	A133	S70	L11
X989	X918	X817	X736	X660	A509	A509	S449	S385	T259	I199	K134	L71	L11
X991	X919	X818	X737	X661	S510	S510	F450	L386	G261	P260	R135	W72	S12
X992	X912	X819	X738	X662	G511	G511	N451	Y387	E261	E73	P136	E73	H13
X995	X915	X820	X739	X667	L512	L512	A452	G388	E262	T201	R137	P74	G14
X996	X916	X821	X740	X668	G513	G513	K453	L389	L263	L203	D138	S75	S15
X997	X917	X822	X742	X669	V514	V514	D454	N390	R264	D204	K139	K76	L16
X998	X918	X823	X743	X668	L515	L515	L455	L391	S265	A205	S143	V77	E17
X1002	X919	X824	X744	X670	T516	T516	Q456	E206	Y266	K207	G78	G78	H18
X1008	X921	X825	X745	X674	H517	H517	L457	L393	L267	R208	A144	Q79	V19
X1009	X922	X826	X746	X675	R518	R518	F458	R394	K268	W207	L145	F80	L20
X1010	X923	X827	X747	X676	N519	N519	V459	K395	G269	F209	F146	N81	L21
X1011	X924	X828	X748	X677	K520	K520	L460	A396	A270	T210	R147	Q82	V22
X1012	X925	X829	X749	X678	D521	D521	D461	P335	T271	Q211	A148	Q82	V22
X1013	X926	X830	X752	X679	S522	S522	T462	S336	G272	G212	S143	N85	T24
X1014	X927	X831	X753	X680	T523	T523	F463	P337	H273	L213	G150	L86	T24
X1015	X928	X832	X754	X681	G524	G524	D464	M338	S274	N214	A154	C87	S26
X1016	X929	X833	X755	X682	V525	V525	G465	L339	Q275	L215	Q155	L88	F27
X1017	X930	X834	X756	X683	R526	R526	S466	S340	G276	L216	Q155	T89	F28
X1018	X931	X835	X760	X684	V527	V527	D467	R406	L277	L156	L156	E90	I29
X1019	X932	X836	X761	X685	T528	T528	L468	R407	F278	A30	V157	F91	A30
X1020	X933	X837	X762	X686	G602	G602	R469	L402	S342	W218	G150	E92	S31
X1021	X934	X838	X763	X687	X603	X603	V470	Q403	T279	L219	A158	N93	Q32
X1022	X935	X839	X764	X688	A604	A604	L471	D404	F409	E220	I159	N92	S31
X1023	X936	X840	X765	X689	F605	F605	S472	S405	V281	N221	G161	C94	L33
X1024	X939	X841	X766	X692	G606	G606	G473	S405	A282	P222	G161	Y95	Q34
X1025	X946	X842	X767	X694	X607	X607	L474	R412	A282	W228	G162	L96	E36
X1028	X947	X843	X768	X698	M611	M611	S474	K415	E285	M224	Q163	E97	Q36
X1029	X948	X844	X772	X700	L612	L612	L475	P416	E285	P226	G164	G98	F37
X1030	X949	X845	X775	X702	X613	X613	S477	S417	T286	T225	G164	N99	N38
X1031	X950	X846	X776	X703	X614	X614	E477	M418	D287	D227	T166	D100	K39
X1034	X951	X847	X777	X704	X615	X615	R478	R419	S288	W228	D167	I101	L40
X1035	X956	X848	X784	X705	X616	X616	L479	P420	W289	D229	D168	H102	L40
X1036	X957	X849	X784	X706	D540	D540	V480	F427	N354	Y230	Y169	A103	P42
X1037	X957	X850	X784	X707	Y541	Y541	D481	L421	F292	L231	F170	L104	E43
X1038	X958	X851	X784	X708	G542	G542	C482	P422	F293	L232	E171	L104	E43
X1039	X959	X852	X784	X709	F543	F543	I483	V423	V294	S233	E171	A105	P44
X1040	X960	X853	X784	X710	K544	K544	L484	A424	S295	S233	E172	A106	T45
X1041	X961	X854	X784	X711	Q545	Q545	R485	S425	V296	L234	L173	K107	E46
X1042	X962	X855	X784	X712	X551	X551	L486	P426	R297	I236	D175	L108	G47
X1043	X963	X856	X784	X713	X552	X552	P487	F427	K298	S237	L176	Q110	F48
X1044	X964	X857	X784	X714	X553	X553	V488	H428	A299	C238	Y177	Q110	A49
X1045	X965	X858	X784	X715	X554	X554	W490	H430	A299	C238	Y177	E111	A50
X1046	X966	X859	X784	X716	X555	X555	L491	L431	T301	L240	Y180	D113	D51
X1047	X967	X860	X784	X717	X556	X556	T492	L432	V302	L241	H181	T114	D52
X1048	X968	X861	X784	X718	X557	X557	T493	V433	L303	G242	H182	T115	E53
X1049	X969	X862	X784	X719	X633	X633	T494	P434	F304	V243	L183	T115	P54
X1050	X970	X863	X784	X720	X634	X634	L494	V434	S369	G243	L183	T115	P54
X1051	X971	X864	X784	X721	X635	X635	T495	A435	I306	Q245	G185	T119	T55
X1052	X972	X865	X784	X722	X636	X636	F496	S436	I306	Q245	G185	T119	T55
X1053	X973	X866	X784	X723	X637	X637	G497	D437	G307	D186	D186	K120	P57
X1054	X974	X867	X784	X724	X638	X638	L498	L438	V308	E121	L187	E121	A58
X1055	X975	X868	X784	X725	X639	X639	L499	L439	R309	E122	L187	E121	A58
X1056	X976	X869	X784	X726	X640	X640	H500	N440	R309	E122	L187	E121	A58
X1057	X977	X870	X784	X727	X641	X641	H500	N440	Y311	V250	F190	K124	G62

X1051	X1052	X1053	X1054	X1055	X1056	X1057	X1058	X1059	X1060	X1061	X1062	X1063	X1066	X1067	X1068	X1069	X1074	X1075	X1076	X1077	X1078	X1079	X1080	X1089	X1090	X1136	X1137	X1138	X1139	X1140	X1141	X1142	X1146	X1147	X1148	X1149	X1150	X1151	X1152	X1153	X1157	X1162	X1163	X1164	X1165	X1166	X1167	X1168	X1169	X1170	X1171	X1172	X1173	X1177	X1178	X1179			
X1180	X1181	X1182	X1183	X1192	X1193	X1194	X1195	X1196	X1197	X1198	X1199	X1200	X1201	X1202	X1205	X1206	X1207	X1208	X1209	X1210	X1211	X1212	X1215	X1220	X1221	X1222	X1225	X1226	X1230	X1231	X1234	X1235	X1236	X1246	X1247	X1248	X1249	X1250	X1251	X1252	X1253	X1256	X1257	X1258	X1259	X1260	X1261	X1262	X1263	X1264									
X1265	X1266	X1267	X1268	X1269	X1270	X1271	X1272	X1275	X1276	X1280	X1281	X1282	X1283	X1284	X1291	X1295	X1296	X1297	X1298	X1299	X1300	X1301	X1304	X1305	X1306	X1307	X1308	X1309	X1314	X1315	X1320	X1321	X1322	X1323	X1324	X1325	X1326	X1327	X1328	X1329	X1332	X1333	X1334	X1335	X1336	X1337	X1340	X1341	X1342	X1343									
X1344	X1345	X1346	X1347	X1348	X1349	X1355	X1356	X1357	X1360	X1361	X1362	X1369	X1370	X1371	X1377	X1378	X1379	X1386	X1390	X1391	X1397	X1398	X1407	X1408	X1413	X1414	X1415	X1416	X1417	X1418	X1419	X1420	X1421	X1422	X1423	X1424	X1425	X1426	X1429	X1430	X1431	X1432	X1433	X1441	X1442	X1443	X1444												
X1445	X1446	X1447	X1448	X1449	X1450	X1451	X1452	X1453	X1454	X1455	X1456	X1457	X1458	X1459	X1460	X1462	X1463	X1464	X1469	X1476	X1477	X1482	X1483	X1484	X1485	X1486	X1487	X1490	X1491	X1492	X1493	X1496	X1497	X1498	X1502	X1503	X1504	X1505	X1506	X1507	X1508	X1509	X1510	X1511	X1512	X1519	X1520	X1521	X1522	X1523	X1524								
X1531	X1532	X1533	X1534	X1535	X1536	X1537	X1538	X1539	X1540	X1541	X1542	X1543	X1549	X1550	X1551	X1552	X1553	X1554	X1555	X1556	X1557	X1558	X1559	X1560	X1561	X1562	X1563	X1564	X1573	X1574	X1575	X1581	X1582	X1583	X1584	X1585	X1586	X1587	X1588	X1589	X1590	X1591	X1592	X1593	X1594	X1595	X1602	X1603	X1604	X1605	X1606	X1607	X1608						
X1614	X1625	X1628	X1629	X1630	X1631	X1632	X1633	X1634	X1638	X1639	X1642	X1643	X1644	X1645	X1646	X1649	X1650	X1651	X1652	X1655	X1656	X1657	X1663	X1665	X1666	X1667	X1668	X1670	X1671	X1672	X1673	X1674	X1675	X1676	X1677	X1678	X1679	X1680	X1681	X1682	X1683	X1684	X1685	X1686	X1687	X1688	X1689	X1690	X1691	X1692	X1693								
A1694	D1695	H1696	H1697	F1698	D1700	T1701	Y1702	G1703	F1704	S1705	L1706	L1707	D1708	L1709	I1710	I1711	M1712	M1713	P1714	M1715	M1716	L1717	L1718	L1719	H1720	F1721	G1722	G1723	E1724	K1725	G1726	R1727	R1728	I1729	L1730	E1731	M1732	Y1733	S1734	A1735	M1736	L1737	F1738	E1739	T1740	I1741	V1742	D1743	G1744	K1745	L1746	K1750	L1751	F1752	K1753	E1754	M1755		
M1756	L1757	H1758	S1759	T1760	S1761	Y1762	T1763	F1764	S1765	S1766	G1769	L1770	L1771	S1772	S1773	A1774	R1775	Q1776	F1777	Q1778	P1779	A1780	L1781	T1782	L1783	M1784	E1785	K1786	A1787	A1788	F1789	E1790	D1791	L1792	K1793	S1794	K1795	G1796	L1797	I1798	P1799	A1800	D1801	A1802	T1803	F1804	A1805	F1806	H1807	S1808	L1809	G1810	A1811	L1812	A1813	A1814	L1815	A1816	
S1817	L1818	A1819	D1820	M1821	M1822	S1823	L1824	E1825	L1826	L1827	E1828	V1829	V1830	V1831	F1832	R1833	R1834	G1835	M1836	T1837	M1838	Q1839	M1840	V1842	P1843	R1844	D1845	E1846	L1847	G1848	R1849	S1850	M1851	Y1852	G1853	M1854	I1855	A1856	L1857	M1858	P1859	G1860	R1861	A1862	A1863	A1864	S1865	F1866	S1867	Q1868	A1869	A1870	L1871	Y1872	Y1873	M1874	V1875	A1876	E1877
R1877	V1878	K1879	K1880	R1881	L1882	G1883	M1884	L1885	V1886	L1887	V1888	M1889	M1890	Y1891	M1892	V1893	E1894	M1895	Q1896	Q1897	V1898	V1899	A1900	A1901	G1902	D1903	L1904	R1905	A1906	L1907	D1908	T1909	V1910	T1911	M1912	V1913	L1914	M1915	F1916	I1917	K1918	L1919	Q1920	K1921	I1922	D1923	I1924	I1925	E1926	L1927	Q1928	R1929	S1930	L1931	L1932	L1933	E1934	E1935	V1936
E1937	G1938	H1939	L1940	X1948	X1949	X1950	X1951	X1957	X1960	X1961	X1962	X1963	X1964	X1965	X1966	X1967	X1968	X1969	X1970	X1971	X1972	X1973	X1974	X1975	X1976	X1981	X1982	X1983	X1984	X1985	X1986	X1987	X1988	X1989	X1990	X1991	X1995	X1996	X2000	X2001	X2002	X2003	X2004	X2005	X2006	X2007	X2008	X2009	X2011	X2010	X2011	X2012	X2013						
X2019	X2020	X2021	X2022	X2023	X2024	X2028	X2029	X2030	X2031	X2032	X2033	X2034	X2035	X2036	X2037	X2038	X2039	X2040	X2041	X2042	X2043	X2044	X2047	X2048	X2049	X2050	X2051	X1981	X1982	X1983	X1984	X1985	X1986	X1987	X1988	X1989	X1990	X1991	X1995	X1996	X2000	X2001	X2002	X2003	X2004	X2005	X2006	X2007	X2008	X2009	X2011	X2010	X2011	X2012	X2013				

● Molecule 2: Fatty acid synthase subunit beta



X1051	X1052	X1053	X1054	X1055	X1056	X1057	X1058	X1059	X1060	X1061	X1062	X1063	X1066	X1067	X1068	X1069	X1074	X1075	X1076	X1089	X1090	X1136	X1137	X1138	X1139	X1140	X1141	X1142	X1146	X1147	X1148	X1149	X1150	X1151	X1152	X1153	X1157	X1162	X1163	X1164	X1165	X1166	X1167	X1168	X1169	X1170	X1171	X1172	X1173	X1177	X1178	X1179																																																																																																																										
X1180	X1181	X1182	X1183	X1192	X1193	X1194	X1195	X1196	X1197	X1198	X1199	X1200	X1201	X1202	X1205	X1206	X1207	X1208	X1209	X1210	X1211	X1212	X1215	X1220	X1221	X1222	X1225	X1226	X1234	X1235	X1236	X1246	X1247	X1248	X1249	X1250	X1252	X1253	X1256	X1257	X1258	X1259	X1260	X1261	X1262	X1263	X1264	X1265	X1266	X1267																																																																																																																												
X1268	X1269	X1270	X1271	X1272	X1275	X1276	X1280	X1281	X1282	X1283	X1284	X1291	X1295	X1296	X1297	X1298	X1299	X1300	X1301	X1304	X1305	X1306	X1307	X1308	X1309	X1314	X1315	X1318	X1319	X1320	X1321	X1322	X1323	X1324	X1325	X1326	X1327	X1328	X1329	X1332	X1333	X1334	X1335	X1336	X1337	X1340	X1341	X1342	X1343	X1344																																																																																																																												
X1345	X1346	X1347	X1348	X1349	X1355	X1356	X1357	X1360	X1361	X1362	X1363	X1364	X1365	X1366	X1369	X1370	X1371	X1372	X1373	X1374	X1377	X1378	X1379	X1386	X1390	X1391	X1397	X1398	X1406	X1407	X1408	X1413	X1414	X1415	X1416	X1417	X1418	X1419	X1420	X1421	X1422	X1423	X1424	X1425	X1426	X1429	X1430	X1431	X1432	X1433																																																																																																																												
X1433	X1441	X1442	X1443	X1444	X1445	X1446	X1447	X1448	X1450	X1451	X1452	X1453	X1454	X1455	X1456	X1457	X1458	X1459	X1460	X1461	X1462	X1463	X1464	X1465	X1466	X1467	X1482	X1490	X1491	X1492	X1493	X1496	X1497	X1498	X1502	X1503	X1504	X1505	X1506	X1507	X1508	X1509	X1510	X1511	X1512	X1513																																																																																																																																
X1519	X1520	X1521	X1522	X1523	X1524	X1531	X1532	X1533	X1534	X1535	X1536	X1537	X1538	X1539	X1540	X1541	X1542	X1543	X1549	X1550	X1551	X1552	X1553	X1554	X1555	X1556	X1557	X1558	X1559	X1560	X1561	X1562	X1563	X1564	X1573	X1574	X1575	X1581	X1582	X1583	X1584	X1585	X1586	X1587	X1588	X1591	X1592	X1593	X1594	X1595	X1596	X1602																																																																																																																										
X1603	X1604	X1605	X1606	X1607	X1614	X1625	X1628	X1629	X1630	X1631	X1632	X1633	X1634	X1638	X1639	X1642	X1643	X1644	X1645	X1646	X1649	X1650	X1651	X1652	X1653	X1654	X1655	X1656	X1657	X1663	X1664	X1665	X1669	X1670	X1671	X1672	X1673	X1674	X1675	X1676	X1677	X1678	X1679	X1680	X1681	X1682	X1683	X1684	X1685	X1686	X1687	X1688	X1689	X1690	X1691	X1692	X1693	X1694	X1695	X1696	X1697	X1698	X1699	X1700	X1701	X1702	X1703	X1704	X1705	X1706	X1707	X1708	X1709	X1710	X1711	X1712	X1713	X1714	X1715	X1716	X1717	X1718	X1719	X1720	X1721	X1722	X1723	X1724	X1725	X1726	X1727	X1728	X1729	X1730	X1731	X1732	X1733	X1734	X1735	X1736	X1737	X1738	X1739	X1740	X1741	X1742	X1743	X1744	X1745	X1746	X1747	X1748	X1749	X1750	X1751	X1752	X1753	X1754	X1755	X1756	X1757	X1758	X1759	X1760	X1761	X1762	X1763	X1764	X1765	X1766	X1767	X1768	X1769	X1770	X1771	X1772	X1773	X1774	X1775	X1776	X1777	X1778	X1779	X1780	X1781	X1782	X1783	X1784	X1785	X1786	X1787	X1788	X1789	X1790	X1791	X1792	X1793	X1794	X1795	X1796	X1797	X1798	X1799	X1800	X1801	X1802	X1803	X1804	X1805	X1806	X1807	X1808	X1809	X1810
X1811	X1812	X1813	X1814	X1815	X1816	X1817	X1818	X1819	X1820	X1821	X1822	X1823	X1824	X1825	X1826	X1827	X1828	X1829	X1830	X1831	X1832	X1833	X1834	X1835	X1836	X1837	X1838	X1839	X1840	X1841	X1842	X1843	X1844	X1845	X1846	X1847	X1848	X1849	X1850	X1851	X1852	X1853	X1854	X1855	X1856	X1857	X1858	X1859	X1860	X1861	X1862	X1863	X1864	X1865	X1866	X1867	X1868	X1869	X1870																																																																																																																			
X1871	X1872	X1873	X1874	X1875	X1876	X1877	X1878	X1879	X1880	X1881	X1882	X1883	X1884	X1885	X1886	X1887	X1888	X1889	X1890	X1891	X1892	X1893	X1894	X1895	X1896	X1897	X1898	X1899	X1900	X1901	X1902	X1903	X1904	X1905	X1906	X1907	X1908	X1909	X1910	X1911	X1912	X1913	X1914	X1915	X1916	X1917	X1918	X1919	X1920	X1921	X1924	X1925	X1926	X1927	X1928	X1929	X1930	X1931																																																																																																																				
X1932	X1933	X1934	X1935	X1936	X1937	X1938	X1939	X1940	X1941	X1942	X1943	X1944	X1945	X1946	X1947	X1948	X1949	X1950	X1951	X1957	X1960	X1961	X1962	X1963	X1964	X1965	X1966	X1967	X1968	X1969	X1970	X1971	X1972	X1973	X1974	X1975	X1976	X1981	X1982	X1983	X1984	X1985	X1986	X1987	X1988	X1989	X1990	X1991	X1995	X1996	X2000	X2001	X2002	X2003	X2004	X2005	X2006	X2007	X2008	X2009																																																																																																																		
X2010	X2011	X2012	X2013	X2019	X2020	X2021	X2022	X2023	X2024	X2028	X2029	X2030	X2031	X2032	X2033	X2034	X2035	X2036	X2037	X2038	X2039	X2040	X2041	X2042	X2043	X2047	X2048	X2049	X2050	X2051																																																																																																																																																

• Molecule 3: Tail protein

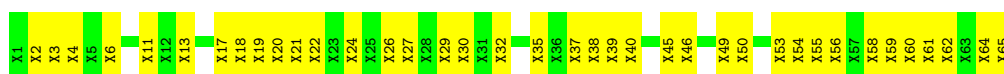




- Molecule 3: Tail protein



- Molecule 3: Tail protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	231.34Å 231.34Å 754.29Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	60.00 – 4.00 59.69 – 3.91	Depositor EDS
% Data completeness (in resolution range)	98.7 (60.00-4.00) 97.4 (59.69-3.91)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.48 (at 3.88Å)	Xtrriage
Refinement program	CNS	Depositor
R, R_{free}	0.319 , 0.346 0.299 , 0.333	Depositor DCC
R_{free} test set	8857 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å ²)	152.3	Xtrriage
Anisotropy	0.194	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.21 , 180.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.39$, $\langle L^2 \rangle = 0.21$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	71862	wwPDB-VP
Average B, all atoms (Å ²)	151.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.63% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality i

5.1 Standard geometry i

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.80	7/8414 (0.1%)	0.95	28/11377 (0.2%)
1	D	0.80	7/8414 (0.1%)	0.95	32/11377 (0.3%)
1	G	0.82	7/8414 (0.1%)	0.96	29/11377 (0.3%)
2	B	0.41	0/6495	0.72	2/8812 (0.0%)
2	E	0.40	0/6495	0.72	3/8812 (0.0%)
2	H	0.41	0/6495	0.72	2/8812 (0.0%)
All	All	0.66	21/44727 (0.0%)	0.86	96/60567 (0.2%)

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	1150	ASP	CB-CG	33.05	2.21	1.51
1	D	1150	ASP	CB-CG	32.65	2.20	1.51
1	A	1150	ASP	CB-CG	32.54	2.20	1.51
1	D	1181	PHE	CD2-CE2	21.08	1.81	1.39
1	G	1181	PHE	CE2-CZ	20.68	1.76	1.37
1	G	1181	PHE	CD2-CE2	20.66	1.80	1.39
1	A	1181	PHE	CE2-CZ	20.25	1.75	1.37
1	A	1181	PHE	CE1-CZ	20.21	1.75	1.37
1	A	1181	PHE	CD2-CE2	20.07	1.79	1.39
1	G	1181	PHE	CE1-CZ	19.95	1.75	1.37
1	A	1181	PHE	CD1-CE1	19.77	1.78	1.39
1	G	1181	PHE	CD1-CE1	19.71	1.78	1.39
1	D	1181	PHE	CD1-CE1	19.53	1.78	1.39
1	D	1181	PHE	CE2-CZ	19.47	1.74	1.37
1	D	1181	PHE	CE1-CZ	18.95	1.73	1.37
1	D	1181	PHE	CG-CD2	13.09	1.58	1.38
1	D	1181	PHE	CG-CD1	13.05	1.58	1.38
1	A	1181	PHE	CG-CD1	12.73	1.57	1.38
1	G	1181	PHE	CG-CD2	12.53	1.57	1.38
1	A	1181	PHE	CG-CD2	12.52	1.57	1.38
1	G	1181	PHE	CG-CD1	12.42	1.57	1.38

All (96) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1150	ASP	CB-CG-OD1	12.15	129.24	118.30
1	D	1150	ASP	CB-CG-OD1	12.14	129.22	118.30
1	A	1150	ASP	CB-CG-OD1	11.62	128.76	118.30
1	D	992	PHE	C-N-CD	-11.23	95.89	120.60
1	G	992	PHE	C-N-CD	-10.81	96.82	120.60
1	A	992	PHE	C-N-CD	-10.76	96.93	120.60
1	G	1113	GLY	N-CA-C	-9.98	88.14	113.10
1	D	1113	GLY	N-CA-C	-9.92	88.30	113.10
1	A	1113	GLY	N-CA-C	-9.89	88.38	113.10
1	G	1150	ASP	OD1-CG-OD2	-8.96	106.28	123.30
1	D	1150	ASP	OD1-CG-OD2	-8.88	106.43	123.30
1	A	1150	ASP	OD1-CG-OD2	-8.63	106.89	123.30
1	D	1264	ARG	N-CA-C	-8.61	87.75	111.00
1	A	1264	ARG	N-CA-C	-8.40	88.31	111.00
1	G	1264	ARG	N-CA-C	-8.40	88.33	111.00
1	D	1065	GLY	N-CA-C	-8.21	92.58	113.10
1	G	1065	GLY	N-CA-C	-8.21	92.57	113.10
1	A	1065	GLY	N-CA-C	-8.11	92.83	113.10
1	A	1077	ASP	N-CA-C	-7.88	89.72	111.00
1	G	1077	ASP	N-CA-C	-7.76	90.05	111.00
1	D	1077	ASP	N-CA-C	-7.70	90.20	111.00
1	D	1663	GLY	N-CA-C	-7.46	94.46	113.10
1	A	1663	GLY	N-CA-C	-7.37	94.68	113.10
1	G	1663	GLY	N-CA-C	-7.08	95.39	113.10
1	G	1150	ASP	CB-CG-OD2	6.68	124.31	118.30
1	A	1343	PHE	N-CA-C	-6.65	93.03	111.00
1	D	1150	ASP	CB-CG-OD2	6.60	124.24	118.30
1	A	1175	ILE	C-N-CD	-6.59	106.09	120.60
1	A	1150	ASP	CB-CG-OD2	6.56	124.20	118.30
1	D	1098	LEU	CA-CB-CG	6.53	130.33	115.30
1	D	1738	ILE	N-CA-C	-6.51	93.41	111.00
1	G	1175	ILE	C-N-CD	-6.46	106.38	120.60
1	D	1175	ILE	C-N-CD	-6.45	106.42	120.60
1	G	1343	PHE	N-CA-C	-6.44	93.62	111.00
1	D	1343	PHE	N-CA-C	-6.42	93.67	111.00
1	G	1098	LEU	CA-CB-CG	6.40	130.03	115.30
1	A	1738	ILE	N-CA-C	-6.37	93.79	111.00
1	G	1738	ILE	N-CA-C	-6.35	93.86	111.00
1	A	1098	LEU	CA-CB-CG	6.33	129.85	115.30
1	D	1341	PHE	N-CA-C	-6.07	94.61	111.00
1	G	1352	THR	N-CA-C	-5.94	94.96	111.00
1	G	1341	PHE	N-CA-C	-5.90	95.08	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1341	PHE	N-CA-C	-5.88	95.13	111.00
1	A	1108	PRO	N-CA-C	5.76	127.07	112.10
1	D	1108	PRO	N-CA-C	5.73	127.01	112.10
1	A	1352	THR	N-CA-C	-5.68	95.67	111.00
1	G	1126	ILE	CB-CA-C	-5.68	100.25	111.60
2	H	1918	LYS	N-CA-C	5.66	126.28	111.00
1	D	1352	THR	N-CA-C	-5.66	95.73	111.00
1	G	1108	PRO	N-CA-C	5.66	126.81	112.10
2	B	1918	LYS	N-CA-C	5.60	126.13	111.00
2	E	1918	LYS	N-CA-C	5.58	126.08	111.00
1	A	1126	ILE	CB-CA-C	-5.51	100.59	111.60
1	G	1266	LYS	N-CA-C	-5.48	96.21	111.00
1	G	1131	LEU	CA-CB-CG	5.47	127.89	115.30
1	D	1635	GLY	N-CA-C	-5.47	99.43	113.10
1	A	1174	TYR	N-CA-C	-5.46	96.27	111.00
1	A	1635	GLY	N-CA-C	-5.44	99.50	113.10
1	G	1463	VAL	N-CA-C	-5.40	96.41	111.00
1	D	1161	GLY	N-CA-C	-5.39	99.61	113.10
2	E	1722	GLY	N-CA-C	-5.38	99.64	113.10
1	G	1424	GLY	N-CA-C	-5.36	99.70	113.10
1	D	984	PRO	N-CA-CB	5.36	109.73	103.30
1	D	1266	LYS	N-CA-C	-5.35	96.56	111.00
1	G	984	PRO	N-CA-CB	5.35	109.72	103.30
1	D	1424	GLY	N-CA-C	-5.34	99.74	113.10
1	A	1266	LYS	N-CA-C	-5.31	96.67	111.00
1	A	1161	GLY	N-CA-C	-5.31	99.84	113.10
1	D	1463	VAL	N-CA-C	-5.30	96.68	111.00
1	D	1718	PRO	N-CA-CB	5.30	109.66	103.30
1	G	1635	GLY	N-CA-C	-5.30	99.85	113.10
1	A	984	PRO	N-CA-CB	5.30	109.66	103.30
1	A	1718	PRO	N-CA-CB	5.29	109.64	103.30
1	G	1610	ASN	N-CA-C	-5.29	96.73	111.00
1	G	1175	ILE	N-CA-C	-5.28	96.75	111.00
1	D	1126	ILE	CB-CA-C	-5.27	101.06	111.60
1	G	1161	GLY	N-CA-C	-5.27	99.92	113.10
1	D	796	LEU	CA-CB-CG	5.27	127.42	115.30
2	B	1722	GLY	N-CA-C	-5.26	99.95	113.10
1	D	1610	ASN	N-CA-C	-5.26	96.80	111.00
1	D	1174	TYR	N-CA-C	-5.25	96.84	111.00
1	A	1463	VAL	N-CA-C	-5.24	96.87	111.00
1	A	1207	GLN	N-CA-C	-5.22	96.90	111.00
1	A	1424	GLY	N-CA-C	-5.22	100.05	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	1722	GLY	N-CA-C	-5.20	100.09	113.10
1	D	1131	LEU	CA-CB-CG	5.17	127.18	115.30
1	G	1174	TYR	N-CA-C	-5.16	97.07	111.00
1	D	1342	GLU	N-CA-C	-5.16	97.08	111.00
2	E	1766	SER	N-CA-C	-5.13	97.15	111.00
1	A	1610	ASN	N-CA-C	-5.13	97.16	111.00
1	G	1718	PRO	N-CA-CB	5.12	109.44	103.30
1	D	1204	ILE	N-CA-C	-5.11	97.21	111.00
1	D	1175	ILE	N-CA-C	-5.10	97.22	111.00
1	D	1207	GLN	N-CA-C	-5.10	97.23	111.00
1	A	1175	ILE	N-CA-C	-5.07	97.30	111.00
1	G	1207	GLN	N-CA-C	-5.06	97.35	111.00

There are no chirality outliers.

There are no planarity outliers.

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	11319	0	8817	2535	24
1	D	11319	0	8818	2518	14
1	G	11319	0	8817	2527	24
2	B	12310	0	7819	1753	0
2	E	12310	0	7817	1770	0
2	H	12310	0	7816	1770	0
3	C	325	0	76	25	0
3	F	325	0	76	28	0
3	I	325	0	76	35	0
All	All	71862	0	50132	12923	38

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 106.

All (12923) 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:G:1181:PHE:CE2	1:G:1181:PHE:CZ	1.76	1.71
1:A:1181:PHE:CZ	1:A:1181:PHE:CE2	1.75	1.69
1:D:1181:PHE:CE2	1:D:1181:PHE:CD2	1.81	1.68
1:G:1181:PHE:CZ	1:G:1181:PHE:CE1	1.75	1.68
1:D:1181:PHE:CD1	1:D:1181:PHE:CE1	1.78	1.66
1:G:1181:PHE:CE2	1:G:1181:PHE:CD2	1.80	1.66
1:A:1181:PHE:CZ	1:A:1181:PHE:CE1	1.75	1.66
1:A:1181:PHE:CD1	1:A:1181:PHE:CE1	1.78	1.66
1:G:1181:PHE:CE1	1:G:1181:PHE:CD1	1.78	1.66
1:A:1181:PHE:CE2	1:A:1181:PHE:CD2	1.79	1.62
1:G:1190:PRO:HG3	1:G:1378:GLU:O	1.40	1.20
1:A:1190:PRO:HG3	1:A:1378:GLU:O	1.40	1.17
1:D:1398:VAL:HG13	1:D:1399:PRO:HA	1.27	1.16
1:D:1454:THR:HG23	1:D:1455:ARG:H	1.07	1.16
1:D:1190:PRO:HG3	1:D:1378:GLU:O	1.40	1.15
1:G:1396:MET:HA	1:G:1676:LYS:HD3	1.27	1.15
1:A:1396:MET:HA	1:A:1676:LYS:HD3	1.28	1.15
1:A:1208:VAL:O	1:A:1210:PRO:HD2	1.47	1.15
1:A:1454:THR:HG23	1:A:1455:ARG:H	1.05	1.14
1:D:1067:LEU:HD21	1:D:1073:THR:HA	1.29	1.14
1:A:1373:ARG:HG2	1:A:1547:LYS:HD3	1.14	1.14
1:G:1022:THR:HG22	1:G:1226:SER:HB2	1.16	1.14
1:G:1398:VAL:HG13	1:G:1399:PRO:HA	1.25	1.14
1:D:1291:LEU:H	1:D:1701:LYS:HD2	1.07	1.12
2:H:527:VAL:HG13	2:H:541:TYR:HA	1.25	1.12
1:A:1022:THR:HG23	1:A:1398:VAL:HG23	1.27	1.12
2:E:241:ILE:HG21	2:E:275:GLN:HE21	1.12	1.12
1:G:1454:THR:HG23	1:G:1455:ARG:H	1.06	1.12
1:G:1547:LYS:HA	1:G:1550:ASP:HB2	1.32	1.12
1:A:1022:THR:HG22	1:A:1226:SER:HB2	1.16	1.12
1:G:1152:VAL:HB	1:G:1154:ILE:HG12	1.30	1.12
1:D:1152:VAL:HB	1:D:1154:ILE:HG12	1.30	1.11
2:E:527:VAL:HG13	2:E:541:TYR:HA	1.26	1.11
1:D:1022:THR:HG23	1:D:1398:VAL:HG23	1.31	1.11
1:A:1540:SER:HA	1:A:1575:VAL:HB	1.32	1.11
2:B:527:VAL:HG13	2:B:541:TYR:HA	1.25	1.11
1:A:1189:ILE:HG22	1:A:1190:PRO:HD3	1.33	1.10
1:D:1189:ILE:CG2	1:D:1377:MET:HB2	1.81	1.10
1:D:1189:ILE:HG21	1:D:1377:MET:HB2	1.14	1.10
1:D:1373:ARG:HG2	1:D:1547:LYS:HD3	1.14	1.10
2:B:372:ASN:HB2	2:B:515:LEU:HD21	1.31	1.10
1:G:1189:ILE:CG2	1:G:1377:MET:HB2	1.80	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1291:LEU:H	1:G:1701:LYS:HD2	1.07	1.10
1:D:1022:THR:HG22	1:D:1226:SER:HB2	1.19	1.10
1:D:1547:LYS:HA	1:D:1550:ASP:HB2	1.30	1.10
1:G:1189:ILE:HG21	1:G:1377:MET:HB2	1.14	1.10
1:D:1150:ASP:CG	1:D:1150:ASP:CB	2.20	1.10
1:D:1175:ILE:HG22	1:D:1176:PRO:CA	1.81	1.10
1:G:1022:THR:HG23	1:G:1398:VAL:HG23	1.28	1.10
1:G:1471:LYS:HE2	1:G:1761:UNK:HA	1.25	1.10
1:A:1189:ILE:HG21	1:A:1377:MET:HB2	1.14	1.09
1:D:1471:LYS:HE2	1:D:1761:UNK:HA	1.22	1.09
1:G:1208:VAL:O	1:G:1210:PRO:HD2	1.52	1.09
1:G:1538:VAL:HG23	1:G:1639:VAL:HA	1.34	1.09
1:A:1152:VAL:HB	1:A:1154:ILE:HG12	1.32	1.09
1:A:1291:LEU:H	1:A:1701:LYS:HD2	1.08	1.09
1:A:1157:ILE:HG22	1:A:1158:PRO:HD2	1.33	1.09
1:G:1175:ILE:HG22	1:G:1176:PRO:CA	1.81	1.09
1:A:1189:ILE:CG2	1:A:1377:MET:HB2	1.82	1.09
1:A:1398:VAL:HG13	1:A:1399:PRO:HA	1.27	1.09
1:D:1540:SER:HA	1:D:1575:VAL:HB	1.33	1.09
1:G:1150:ASP:CB	1:G:1150:ASP:CG	2.21	1.09
1:A:1150:ASP:CG	1:A:1150:ASP:CB	2.20	1.08
1:G:1189:ILE:HG22	1:G:1190:PRO:HD3	1.34	1.08
1:A:1471:LYS:HE2	1:A:1761:UNK:HA	1.23	1.08
2:E:43:GLU:HB2	2:E:44:PRO:HD3	1.33	1.08
2:E:1715:VAL:HB	2:E:1770:LEU:H	1.17	1.08
1:G:1067:LEU:HD22	1:G:1068:LYS:N	1.69	1.08
1:D:1157:ILE:HG22	1:D:1158:PRO:HD2	1.33	1.07
1:D:1208:VAL:O	1:D:1210:PRO:HD2	1.52	1.07
2:H:43:GLU:HB2	2:H:44:PRO:HD3	1.33	1.07
1:A:1175:ILE:HG22	1:A:1176:PRO:CA	1.83	1.07
1:D:1396:MET:HA	1:D:1676:LYS:HD3	1.29	1.07
2:H:241:ILE:HG21	2:H:275:GLN:HE21	1.15	1.07
1:G:1540:SER:HA	1:G:1575:VAL:HB	1.32	1.07
2:H:372:ASN:HB2	2:H:515:LEU:HD21	1.31	1.07
2:B:43:GLU:HB2	2:B:44:PRO:HD3	1.32	1.07
2:E:372:ASN:HB2	2:E:515:LEU:HD21	1.31	1.07
1:G:1246:CYS:HB3	1:G:1328:ILE:HG23	1.37	1.07
2:B:241:ILE:HG21	2:B:275:GLN:HE21	1.14	1.06
1:G:1373:ARG:HG2	1:G:1547:LYS:HD3	1.12	1.06
2:B:1715:VAL:HB	2:B:1770:LEU:H	1.19	1.06
1:G:1067:LEU:HD21	1:G:1073:THR:HA	1.32	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1157:ILE:HG22	1:G:1158:PRO:HD2	1.32	1.06
1:A:1538:VAL:HG23	1:A:1639:VAL:HA	1.33	1.06
1:G:1385:GLN:HE22	1:G:1593:MET:HG3	1.20	1.06
1:A:1067:LEU:HD22	1:A:1068:LYS:N	1.71	1.06
1:A:1067:LEU:HD21	1:A:1073:THR:HA	1.31	1.06
1:G:1067:LEU:HG	1:G:1073:THR:HG23	1.38	1.06
2:H:1715:VAL:HB	2:H:1770:LEU:H	1.16	1.05
1:A:1547:LYS:HA	1:A:1550:ASP:HB2	1.33	1.05
1:D:1385:GLN:HE22	1:D:1593:MET:HG3	1.18	1.05
1:D:1606:PRO:HB2	1:D:1627:PRO:HA	1.05	1.04
1:A:1193:TRP:CH2	1:A:1380:GLN:HB2	1.92	1.04
1:A:1254:VAL:HA	1:A:1257:LEU:HB3	1.37	1.04
1:D:1254:VAL:HA	1:D:1257:LEU:HB3	1.39	1.04
1:D:1604:ILE:HG22	1:D:1605:ILE:H	1.20	1.04
1:G:1332:TYR:H	1:G:1587:ALA:HB2	1.22	1.04
2:H:168:ASP:HB3	2:H:171:GLU:HB2	1.40	1.04
1:A:1332:TYR:H	1:A:1587:ALA:HB2	1.19	1.04
1:D:1189:ILE:HG22	1:D:1190:PRO:HD3	1.36	1.04
1:A:1606:PRO:HB2	1:A:1627:PRO:HA	1.06	1.04
1:D:1067:LEU:HG	1:D:1073:THR:HG23	1.37	1.04
1:D:1067:LEU:HD22	1:D:1068:LYS:N	1.71	1.04
1:D:1193:TRP:CH2	1:D:1380:GLN:HB2	1.91	1.04
1:G:1604:ILE:HG22	1:G:1605:ILE:H	1.22	1.04
2:E:169:TYR:HE2	2:E:237:SER:HB2	1.22	1.03
1:A:1246:CYS:HB3	1:A:1328:ILE:HG23	1.37	1.03
1:G:1403:ILE:HG23	1:G:1656:VAL:HG13	1.40	1.03
1:A:1403:ILE:HG23	1:A:1656:VAL:HG13	1.39	1.03
1:D:1110:LEU:HD13	1:D:1120:GLU:HG3	1.40	1.03
1:A:1076:VAL:HG11	1:A:1087:LYS:HA	1.40	1.03
1:A:1067:LEU:HG	1:A:1073:THR:HG23	1.36	1.03
1:G:1137:SER:OG	1:G:1168:LEU:HD12	1.59	1.03
1:A:1259:GLY:HA2	1:A:1263:ASP:HB2	1.41	1.02
1:A:1423:LYS:HB2	1:A:1552:ASN:HD21	1.22	1.02
1:D:1335:PHE:HE1	1:D:1340:SER:HB2	1.24	1.02
1:G:1193:TRP:CH2	1:G:1380:GLN:HB2	1.93	1.02
1:D:755:THR:HG22	1:D:757:LYS:H	1.23	1.02
1:D:1246:CYS:HB3	1:D:1328:ILE:HG23	1.36	1.02
1:D:1259:GLY:HA2	1:D:1263:ASP:HB2	1.37	1.02
1:G:1254:VAL:HA	1:G:1257:LEU:HB3	1.39	1.02
2:H:366:VAL:HG22	2:H:381:GLY:HA3	1.41	1.02
1:A:1223:PHE:HE2	1:A:1386:ILE:HG21	1.24	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1335:PHE:HE1	1:A:1340:SER:HB2	1.21	1.02
1:A:1464:GLU:HA	1:A:1467:LEU:HD12	1.42	1.02
1:D:752:ILE:HA	1:D:761:LEU:HD23	1.41	1.02
1:G:1606:PRO:HB2	1:G:1627:PRO:HA	1.04	1.02
1:A:755:THR:HG22	1:A:757:LYS:H	1.25	1.02
1:A:1137:SER:OG	1:A:1168:LEU:HD12	1.59	1.02
1:D:1423:LYS:HB2	1:D:1552:ASN:HD21	1.21	1.02
1:D:1538:VAL:HG23	1:D:1639:VAL:HA	1.36	1.02
2:E:366:VAL:HG22	2:E:381:GLY:HA3	1.41	1.02
1:G:1103:ILE:HA	1:G:1106:ILE:HD12	1.39	1.02
1:G:1423:LYS:HB2	1:G:1552:ASN:HD21	1.23	1.02
1:G:1704:ALA:HB1	1:G:1705:PRO:HD2	1.40	1.02
1:A:1604:ILE:HG22	1:A:1605:ILE:H	1.23	1.02
2:B:169:TYR:HE2	2:B:237:SER:HB2	1.22	1.02
2:E:1665:UNK:HA	2:E:1805:ALA:HB3	1.42	1.02
1:G:1063:HIS:C	1:G:1065:GLY:H	1.54	1.02
1:G:1464:GLU:HA	1:G:1467:LEU:HD12	1.40	1.02
1:A:1385:GLN:HE22	1:A:1593:MET:HG3	1.22	1.01
1:D:1403:ILE:HG23	1:D:1656:VAL:HG13	1.39	1.01
1:G:755:THR:HG22	1:G:757:LYS:H	1.21	1.01
1:G:1020:VAL:HG13	1:G:1402:GLY:O	1.59	1.01
1:G:1711:GLU:HG2	1:G:1715:TYR:HE1	1.25	1.01
2:H:56:THR:HG23	2:H:59:GLU:HG3	1.41	1.01
1:D:1076:VAL:HG11	1:D:1087:LYS:HA	1.42	1.01
1:G:1099:GLU:HG2	1:G:1100:HIS:H	1.26	1.01
2:H:455:ILE:HD12	2:H:469:ARG:HB2	1.42	1.01
1:D:1332:TYR:H	1:D:1587:ALA:HB2	1.22	1.01
1:A:1254:VAL:HA	1:A:1257:LEU:CB	1.91	1.00
1:G:1259:GLY:HA2	1:G:1263:ASP:HB2	1.41	1.00
2:H:1:MET:HB2	2:H:11:LEU:HB2	1.43	1.00
2:H:1733:TYR:OH	2:H:1761:SER:HA	1.61	1.00
1:A:752:ILE:HA	1:A:761:LEU:HD23	1.42	1.00
1:A:768:ILE:HG22	1:A:770:PRO:HD3	1.43	1.00
1:A:1704:ALA:HB1	1:A:1705:PRO:HD2	1.41	1.00
2:B:56:THR:HG23	2:B:59:GLU:HG3	1.42	1.00
1:D:1137:SER:OG	1:D:1168:LEU:HD12	1.59	1.00
1:G:1254:VAL:HA	1:G:1257:LEU:CB	1.90	1.00
2:H:169:TYR:CE2	2:H:237:SER:HB2	1.97	1.00
1:A:1110:LEU:HD13	1:A:1120:GLU:HG3	1.40	1.00
2:B:234:ILE:HG23	2:B:235:PRO:HD3	1.42	1.00
1:G:752:ILE:HA	1:G:761:LEU:HD23	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1351:ASN:HD22	1:A:1354:GLU:HB2	1.26	1.00
2:H:471:LEU:HG	2:H:472:SER:H	1.26	1.00
1:D:1351:ASN:HD22	1:D:1354:GLU:HB2	1.26	1.00
2:E:1733:TYR:OH	2:E:1761:SER:HA	1.60	1.00
2:B:169:TYR:CE2	2:B:237:SER:HB2	1.96	1.00
2:B:1665:UNK:HA	2:B:1805:ALA:HB3	1.43	1.00
2:E:169:TYR:CE2	2:E:237:SER:HB2	1.96	1.00
1:A:1099:GLU:HG2	1:A:1100:HIS:H	1.24	0.99
2:E:1266:UNK:HA	2:E:1269:UNK:CB	1.92	0.99
1:D:1099:GLU:HG2	1:D:1100:HIS:H	1.26	0.99
2:E:1:MET:HB2	2:E:11:LEU:HB2	1.44	0.99
2:E:168:ASP:HB3	2:E:171:GLU:HB2	1.40	0.99
2:B:168:ASP:HB3	2:B:171:GLU:HB2	1.40	0.99
2:B:455:ILE:HD12	2:B:469:ARG:HB2	1.44	0.99
2:B:1733:TYR:OH	2:B:1761:SER:HA	1.63	0.99
1:D:768:ILE:HG22	1:D:770:PRO:HD3	1.41	0.99
1:G:1353:LEU:H	1:G:1356:PHE:HB2	1.26	0.99
1:A:1063:HIS:C	1:A:1065:GLY:H	1.54	0.99
1:A:1711:GLU:HG2	1:A:1715:TYR:HE1	1.24	0.99
1:G:1110:LEU:HD13	1:G:1120:GLU:HG3	1.40	0.99
2:H:258:PHE:HB3	2:H:262:GLU:HB2	1.44	0.99
2:B:366:VAL:HG22	2:B:381:GLY:HA3	1.43	0.99
1:D:1711:GLU:HG2	1:D:1715:TYR:HE1	1.24	0.99
2:H:1665:UNK:HA	2:H:1805:ALA:HB3	1.40	0.99
1:D:1020:VAL:HG13	1:D:1402:GLY:O	1.60	0.98
2:B:318:SER:H	2:H:1307:UNK:CB	1.75	0.98
1:G:1175:ILE:CG2	1:G:1176:PRO:HA	1.92	0.98
1:G:1697:LEU:H	1:G:1697:LEU:HD12	1.29	0.98
1:D:1175:ILE:CG2	1:D:1176:PRO:HA	1.92	0.98
1:G:1076:VAL:HG11	1:G:1087:LYS:HA	1.42	0.98
1:A:1020:VAL:HG13	1:A:1402:GLY:O	1.60	0.98
1:D:1063:HIS:C	1:D:1065:GLY:H	1.54	0.98
2:E:258:PHE:HB3	2:E:262:GLU:HB2	1.45	0.98
1:D:808:LYS:HA	1:D:808:LYS:HE3	1.45	0.98
2:E:471:LEU:HG	2:E:472:SER:H	1.27	0.98
1:G:677:TYR:HE2	1:G:702:LYS:HD2	1.29	0.98
1:A:1189:ILE:HG22	1:A:1190:PRO:CD	1.92	0.98
2:B:1724:GLU:HG2	2:B:1726:GLY:H	1.28	0.98
1:A:1583:HIS:H	1:A:1583:HIS:CD2	1.80	0.98
1:D:1223:PHE:HE2	1:D:1386:ILE:HG21	1.27	0.98
1:D:1254:VAL:HA	1:D:1257:LEU:CB	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1604:ILE:HD12	1:A:1630:THR:HB	1.45	0.98
1:D:1704:ALA:HB1	1:D:1705:PRO:HD2	1.44	0.98
2:E:234:ILE:HG23	2:E:235:PRO:HD3	1.43	0.98
1:A:1060:ILE:HG22	1:A:1079:LYS:HB2	1.46	0.97
1:D:1201:SER:HB3	1:D:1204:ILE:HG13	1.46	0.97
2:E:56:THR:HG23	2:E:59:GLU:HG3	1.43	0.97
1:A:1175:ILE:CG2	1:A:1176:PRO:HA	1.93	0.97
2:B:471:LEU:HG	2:B:472:SER:H	1.28	0.97
1:D:1188:GLN:HG2	1:D:1352:THR:HG21	1.46	0.97
1:D:677:TYR:HE2	1:D:702:LYS:HD2	1.28	0.97
1:G:768:ILE:HG22	1:G:770:PRO:HD3	1.43	0.97
1:D:1604:ILE:HD12	1:D:1630:THR:HB	1.46	0.97
2:H:1266:UNK:HA	2:H:1269:UNK:CB	1.95	0.97
1:A:677:TYR:HE2	1:A:702:LYS:HD2	1.28	0.97
1:A:1201:SER:HB3	1:A:1204:ILE:HG13	1.47	0.97
1:G:1189:ILE:HG22	1:G:1190:PRO:CD	1.93	0.97
1:G:1223:PHE:HE2	1:G:1386:ILE:HG21	1.25	0.97
2:H:169:TYR:HE2	2:H:237:SER:HB2	1.23	0.97
2:E:1724:GLU:HG2	2:E:1726:GLY:H	1.30	0.97
1:A:1404:VAL:HA	1:A:1655:VAL:HG23	1.47	0.96
1:D:1606:PRO:CB	1:D:1627:PRO:HA	1.95	0.96
1:G:1583:HIS:CD2	1:G:1583:HIS:H	1.79	0.96
1:D:739:GLN:HB3	1:D:794:ILE:HG13	1.47	0.96
1:D:877:LEU:O	1:D:878:MET:HB2	1.65	0.96
1:D:1353:LEU:H	1:D:1356:PHE:HB2	1.27	0.96
1:D:1464:GLU:HA	1:D:1467:LEU:HD12	1.42	0.96
2:H:1939:HIS:CG	2:H:1940:LEU:H	1.83	0.96
2:B:258:PHE:HB3	2:B:262:GLU:HB2	1.45	0.96
1:G:808:LYS:HA	1:G:808:LYS:HE3	1.45	0.96
1:A:1107:GLU:HB3	1:A:1108:PRO:CD	1.95	0.96
1:D:1291:LEU:N	1:D:1701:LYS:HD2	1.78	0.96
1:G:1168:LEU:HD22	1:G:1169:LYS:H	1.30	0.96
1:G:1335:PHE:HE1	1:G:1340:SER:HB2	1.26	0.96
2:H:234:ILE:HG23	2:H:235:PRO:HD3	1.42	0.96
1:A:1081:LYS:HG2	1:A:1083:PRO:HD3	1.48	0.96
1:D:1641:ILE:HD13	1:D:1641:ILE:H	1.30	0.96
1:G:1638:ALA:HB1	1:G:1654:ILE:HD11	1.47	0.96
1:A:1103:ILE:HA	1:A:1106:ILE:HD12	1.48	0.96
1:G:1060:ILE:HG22	1:G:1079:LYS:HB2	1.46	0.96
1:D:1697:LEU:HD12	1:D:1697:LEU:H	1.29	0.95
1:G:1075:TRP:O	1:G:1076:VAL:HG13	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1604:ILE:HD12	1:G:1630:THR:HB	1.47	0.95
2:H:1724:GLU:HG2	2:H:1726:GLY:H	1.29	0.95
2:B:1:MET:HB2	2:B:11:LEU:HB2	1.44	0.95
1:D:1520:ALA:H	1:D:1521:PRO:HD3	1.30	0.95
1:G:1404:VAL:HA	1:G:1655:VAL:HG23	1.46	0.95
1:A:1291:LEU:N	1:A:1701:LYS:HD2	1.80	0.95
1:A:1606:PRO:CB	1:A:1627:PRO:HA	1.97	0.95
1:A:808:LYS:HE3	1:A:808:LYS:HA	1.45	0.95
2:B:1266:UNK:HA	2:B:1269:UNK:CB	1.94	0.95
1:G:1188:GLN:HG2	1:G:1352:THR:HG21	1.44	0.95
1:A:1175:ILE:HG22	1:A:1176:PRO:HA	0.97	0.95
1:D:1389:GLN:HB3	1:D:1392:LEU:HD23	1.48	0.95
2:E:455:ILE:HD12	2:E:469:ARG:HB2	1.43	0.95
1:G:1389:GLN:HB3	1:G:1392:LEU:HD23	1.49	0.95
1:A:1188:GLN:HG2	1:A:1352:THR:HG21	1.46	0.95
1:A:1210:PRO:HB3	1:A:1255:SER:HB3	1.48	0.95
1:G:1067:LEU:HD13	1:G:1068:LYS:H	1.29	0.95
1:G:1107:GLU:HB3	1:G:1108:PRO:CD	1.97	0.95
1:A:1193:TRP:CZ2	1:A:1380:GLN:HB2	2.02	0.95
1:D:1103:ILE:HA	1:D:1106:ILE:HD12	1.44	0.95
1:G:1291:LEU:N	1:G:1701:LYS:HD2	1.80	0.95
1:A:1641:ILE:HD13	1:A:1641:ILE:H	1.31	0.95
2:B:35:GLU:HA	2:B:38:ASN:HD22	1.31	0.95
1:D:1189:ILE:HG22	1:D:1190:PRO:CD	1.96	0.95
1:G:1351:ASN:HD22	1:G:1354:GLU:HB2	1.27	0.95
1:G:1632:LYS:H	1:G:1632:LYS:HD2	1.31	0.95
2:H:1729:ILE:HG23	2:H:1730:ARG:H	1.30	0.95
1:A:1389:GLN:HB3	1:A:1392:LEU:HD23	1.49	0.94
1:D:1107:GLU:HB3	1:D:1108:PRO:CD	1.97	0.94
1:A:1697:LEU:HD12	1:A:1697:LEU:H	1.30	0.94
1:D:1060:ILE:HG22	1:D:1079:LYS:HB2	1.47	0.94
1:G:1201:SER:HB3	1:G:1204:ILE:HG13	1.46	0.94
2:B:403:ASP:OD2	2:B:412:ARG:HG3	1.67	0.94
1:A:1075:TRP:O	1:A:1076:VAL:HG13	1.67	0.94
1:A:1353:LEU:H	1:A:1356:PHE:HB2	1.27	0.94
1:D:1207:GLN:HE21	1:D:1208:VAL:N	1.64	0.94
1:A:1159:GLU:O	1:A:1166:LYS:HD3	1.68	0.94
2:E:35:GLU:HA	2:E:38:ASN:HD22	1.29	0.94
1:A:1067:LEU:HD13	1:A:1068:LYS:H	1.30	0.94
1:G:1606:PRO:CB	1:G:1627:PRO:HA	1.95	0.94
1:A:1108:PRO:HA	1:A:1189:ILE:O	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1193:TRP:CZ2	1:G:1380:GLN:HB2	2.02	0.94
1:A:1538:VAL:CG2	1:A:1639:VAL:HA	1.98	0.94
1:D:1207:GLN:NE2	1:D:1208:VAL:H	1.65	0.94
1:D:1210:PRO:HB3	1:D:1255:SER:HB3	1.47	0.94
1:A:1596:ALA:O	1:A:1599:ILE:HG12	1.67	0.94
2:H:1775:GLN:HE21	2:H:1836:MET:HG2	1.33	0.94
1:G:1108:PRO:HA	1:G:1189:ILE:O	1.67	0.93
1:A:1117:GLU:O	1:A:1119:LYS:N	2.02	0.93
2:B:319:LEU:HD12	2:B:320:PRO:HD2	1.51	0.93
1:D:1450:ARG:O	1:D:1454:THR:HG22	1.67	0.93
2:E:41:LEU:HD22	2:E:46:GLU:HA	1.50	0.93
1:G:1207:GLN:HE21	1:G:1208:VAL:H	1.12	0.93
1:A:1208:VAL:HA	1:A:1277:GLU:HG2	1.50	0.93
1:G:1520:ALA:H	1:G:1521:PRO:HD3	1.32	0.93
2:H:1784:MET:CE	3:I:21:UNK:HA	1.98	0.93
2:B:46:GLU:HG3	2:B:51:ASP:HB3	1.51	0.93
2:B:1390:UNK:HA	2:B:1408:UNK:HA	1.50	0.93
1:D:1303:GLY:CA	1:D:1649:LYS:HD2	1.99	0.93
1:G:716:ASP:O	1:G:719:GLN:HB3	1.68	0.93
1:G:1203:ASP:H	1:G:1205:ILE:HG12	1.33	0.93
1:A:877:LEU:O	1:A:878:MET:HB2	1.65	0.93
1:A:1732:THR:HG23	1:A:1736:LYS:HB2	1.49	0.93
2:B:1729:ILE:HG23	2:B:1730:ARG:H	1.31	0.93
1:D:1075:TRP:O	1:D:1076:VAL:HG13	1.67	0.93
1:G:1159:GLU:O	1:G:1166:LYS:HD3	1.67	0.93
1:G:1208:VAL:HA	1:G:1277:GLU:HG2	1.49	0.93
1:A:1189:ILE:CG2	1:A:1190:PRO:HD3	1.99	0.93
1:A:1207:GLN:HE21	1:A:1208:VAL:N	1.66	0.93
1:D:1193:TRP:CZ2	1:D:1380:GLN:HB2	2.02	0.93
1:D:1632:LYS:H	1:D:1632:LYS:HD2	1.33	0.93
1:D:1638:ALA:HB1	1:D:1654:ILE:HD11	1.48	0.93
2:E:238:CYS:O	2:E:241:ILE:HG22	1.68	0.93
1:D:1159:GLU:O	1:D:1166:LYS:HD3	1.68	0.93
2:E:1729:ILE:HG23	2:E:1730:ARG:H	1.32	0.93
1:G:739:GLN:HB3	1:G:794:ILE:HG13	1.49	0.93
1:G:1210:PRO:HB3	1:G:1255:SER:HB3	1.48	0.93
1:A:1303:GLY:HA2	1:A:1649:LYS:HD2	1.51	0.93
1:D:710:PHE:HE1	1:D:736:PRO:HD3	1.33	0.93
1:A:739:GLN:HB3	1:A:794:ILE:HG13	1.48	0.93
1:A:1114:TYR:HB3	1:A:1115:ASN:ND2	1.82	0.93
1:G:1081:LYS:HG2	1:G:1083:PRO:HD3	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1175:ILE:HG22	1:G:1176:PRO:HA	0.96	0.93
1:A:1243:VAL:HA	1:A:1324:ALA:HB1	1.51	0.93
1:D:1108:PRO:HA	1:D:1189:ILE:O	1.69	0.93
1:D:1114:TYR:HB3	1:D:1115:ASN:ND2	1.84	0.93
1:D:1208:VAL:HA	1:D:1277:GLU:HG2	1.49	0.93
1:D:1175:ILE:HG22	1:D:1176:PRO:HA	0.96	0.92
2:E:319:LEU:HD12	2:E:320:PRO:HD2	1.50	0.92
1:D:1174:TYR:O	1:D:1175:ILE:HD12	1.69	0.92
1:G:692:VAL:O	1:G:696:LEU:HD23	1.69	0.92
1:G:1596:ALA:O	1:G:1599:ILE:HG12	1.67	0.92
1:D:1203:ASP:H	1:D:1205:ILE:HG12	1.32	0.92
1:G:1430:ARG:HG2	1:G:1431:GLU:N	1.82	0.92
1:A:1168:LEU:HD22	1:A:1169:LYS:H	1.35	0.92
1:A:1174:TYR:O	1:A:1175:ILE:HD12	1.69	0.92
2:B:2022:UNK:C	2:B:2024:UNK:H	1.82	0.92
1:D:1067:LEU:HD13	1:D:1068:LYS:H	1.30	0.92
2:B:238:CYS:O	2:B:241:ILE:HG22	1.70	0.92
1:D:1596:ALA:O	1:D:1599:ILE:HG12	1.70	0.92
1:G:1398:VAL:HG13	1:G:1399:PRO:CA	1.99	0.92
1:G:1450:ARG:O	1:G:1454:THR:HG22	1.69	0.92
2:H:35:GLU:HA	2:H:38:ASN:HD22	1.31	0.92
1:A:1203:ASP:H	1:A:1205:ILE:CG1	1.82	0.92
1:A:1430:ARG:HG2	1:A:1431:GLU:N	1.83	0.92
1:A:1520:ALA:H	1:A:1521:PRO:HD3	1.34	0.92
1:A:1638:ALA:HB1	1:A:1654:ILE:HD11	1.48	0.92
2:E:1775:GLN:HE21	2:E:1836:MET:HG2	1.33	0.92
1:G:1207:GLN:HE21	1:G:1208:VAL:N	1.67	0.92
1:A:1614:VAL:O	1:A:1615:ASP:HB3	1.70	0.92
1:G:1114:TYR:HB3	1:G:1115:ASN:ND2	1.84	0.92
2:E:2022:UNK:C	2:E:2024:UNK:H	1.81	0.92
1:G:877:LEU:O	1:G:878:MET:HB2	1.66	0.92
1:G:1189:ILE:CG2	1:G:1190:PRO:HD3	1.99	0.92
1:A:1207:GLN:NE2	1:A:1208:VAL:H	1.67	0.92
2:E:403:ASP:OD2	2:E:412:ARG:HG3	1.68	0.92
2:E:1939:HIS:CG	2:E:1940:LEU:H	1.86	0.92
2:H:41:LEU:HD22	2:H:46:GLU:HA	1.51	0.92
2:H:1784:MET:HE3	3:I:21:UNK:HA	1.52	0.92
1:A:1379:ALA:H	1:A:1583:HIS:HB3	1.35	0.92
2:B:41:LEU:HD22	2:B:46:GLU:HA	1.49	0.92
1:D:1081:LYS:HG2	1:D:1083:PRO:HD3	1.49	0.92
1:D:1583:HIS:H	1:D:1583:HIS:CD2	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1732:THR:HG23	1:D:1736:LYS:HB2	1.52	0.92
1:G:1203:ASP:H	1:G:1205:ILE:CG1	1.82	0.92
1:G:1732:THR:HG23	1:G:1736:LYS:HB2	1.51	0.92
1:A:1203:ASP:H	1:A:1205:ILE:HG12	1.31	0.91
1:A:1332:TYR:N	1:A:1587:ALA:HB2	1.84	0.91
1:G:1174:TYR:O	1:G:1175:ILE:HD12	1.70	0.91
1:G:1641:ILE:HD13	1:G:1641:ILE:H	1.33	0.91
2:E:46:GLU:HG3	2:E:51:ASP:HB3	1.52	0.91
1:G:1329:VAL:HG13	1:G:1330:GLY:H	1.36	0.91
1:G:1579:PHE:O	1:G:1580:LEU:HB3	1.70	0.91
1:A:1022:THR:HG22	1:A:1226:SER:CB	1.99	0.91
1:D:1303:GLY:HA2	1:D:1649:LYS:HD2	1.51	0.91
1:A:1207:GLN:HE21	1:A:1208:VAL:H	1.10	0.91
1:A:1398:VAL:HG13	1:A:1399:PRO:CA	2.01	0.91
1:A:1450:ARG:O	1:A:1454:THR:HG22	1.70	0.91
1:D:1168:LEU:HD22	1:D:1169:LYS:H	1.34	0.91
2:E:1390:UNK:HA	2:E:1408:UNK:HA	1.51	0.91
1:G:1332:TYR:N	1:G:1587:ALA:HB2	1.85	0.91
1:G:1243:VAL:HA	1:G:1324:ALA:HB1	1.50	0.91
1:A:1303:GLY:CA	1:A:1649:LYS:HD2	2.01	0.91
1:D:1404:VAL:HA	1:D:1655:VAL:HG23	1.51	0.91
2:E:145:LEU:HD13	2:E:551:UNK:HA	1.53	0.91
1:G:1131:LEU:HB2	1:G:1133:PRO:HD3	1.51	0.91
1:G:1714:VAL:HG11	1:G:1731:LEU:HD13	1.53	0.91
1:A:1628:SER:O	1:A:1630:THR:N	2.03	0.91
1:D:1203:ASP:H	1:D:1205:ILE:CG1	1.83	0.91
2:E:1864:ALA:C	2:E:1866:PHE:H	1.70	0.91
2:B:157:VAL:HG13	2:B:269:GLY:HA3	1.53	0.90
1:D:1079:LYS:HD2	1:D:1098:LEU:CD2	2.01	0.90
1:G:1303:GLY:CA	1:G:1649:LYS:HD2	2.00	0.90
1:G:1538:VAL:CG2	1:G:1639:VAL:HA	1.99	0.90
2:H:157:VAL:HG13	2:H:269:GLY:HA3	1.52	0.90
1:A:1022:THR:HG21	1:A:1388:MET:HE2	1.52	0.90
1:D:1369:ALA:HA	1:D:1547:LYS:HD2	1.54	0.90
2:E:404:GLN:HG3	2:E:408:PRO:HG3	1.54	0.90
1:A:1632:LYS:H	1:A:1632:LYS:HD2	1.33	0.90
1:D:1022:THR:HG21	1:D:1388:MET:HE2	1.52	0.90
1:D:1158:PRO:HG2	1:D:1159:GLU:H	1.35	0.90
1:A:692:VAL:O	1:A:696:LEU:HD23	1.71	0.90
1:A:1189:ILE:HG23	1:A:1377:MET:SD	2.12	0.90
1:D:1131:LEU:HB2	1:D:1133:PRO:HD3	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1454:THR:HG23	1:G:1455:ARG:N	1.86	0.90
1:G:1583:HIS:H	1:G:1583:HIS:HD2	1.17	0.90
1:A:1189:ILE:HD11	1:A:1352:THR:HG23	1.54	0.90
1:A:1329:VAL:HG13	1:A:1330:GLY:H	1.37	0.90
2:B:1307:UNK:CB	2:E:317:THR:HG23	2.02	0.90
2:B:1939:HIS:CG	2:B:1940:LEU:H	1.86	0.90
1:D:1022:THR:HG22	1:D:1226:SER:CB	2.02	0.90
1:D:1430:ARG:HG2	1:D:1431:GLU:N	1.83	0.90
2:B:1880:LYS:HD3	2:B:1899:VAL:CG1	2.01	0.90
1:D:1398:VAL:HG13	1:D:1399:PRO:CA	2.02	0.90
2:E:1690:VAL:HG21	2:E:1787:ALA:HA	1.54	0.90
1:G:1263:ASP:O	1:G:1264:ARG:HB2	1.71	0.90
1:D:1614:VAL:O	1:D:1615:ASP:HB3	1.71	0.90
2:H:46:GLU:HG3	2:H:51:ASP:HB3	1.52	0.90
2:B:238:CYS:HA	2:B:275:GLN:NE2	1.87	0.90
2:B:1715:VAL:HG22	2:B:1716:ASN:H	1.37	0.90
2:H:403:ASP:OD2	2:H:412:ARG:HG3	1.69	0.90
2:H:1390:UNK:HA	2:H:1408:UNK:HA	1.50	0.90
1:A:1132:GLU:N	1:A:1133:PRO:HD3	1.86	0.89
1:A:1452:LEU:O	1:A:1456:GLU:HB2	1.72	0.89
1:A:1583:HIS:H	1:A:1583:HIS:HD2	1.18	0.89
2:E:29:ILE:HG13	2:E:61:VAL:HG22	1.54	0.89
2:E:1709:ILE:HD11	2:E:1719:ILE:HD11	1.54	0.89
1:G:1067:LEU:CD1	1:G:1068:LYS:H	1.85	0.89
2:H:319:LEU:HD12	2:H:320:PRO:HD2	1.51	0.89
2:H:1864:ALA:C	2:H:1866:PHE:H	1.70	0.89
1:A:1452:LEU:HA	1:A:1456:GLU:HG3	1.53	0.89
2:H:2022:UNK:C	2:H:2024:UNK:H	1.81	0.89
1:A:1462:TRP:HZ3	1:A:1466:GLU:HB2	1.38	0.89
1:A:1476:GLU:O	1:A:1477:ILE:HG12	1.72	0.89
1:A:1353:LEU:N	1:A:1356:PHE:HB2	1.87	0.89
1:D:1452:LEU:HA	1:D:1456:GLU:HG3	1.53	0.89
1:G:1079:LYS:HD2	1:G:1098:LEU:CD2	2.02	0.89
1:A:1369:ALA:HA	1:A:1547:LYS:HD2	1.52	0.89
1:D:1189:ILE:CG2	1:D:1190:PRO:HD3	2.01	0.89
1:D:1243:VAL:HA	1:D:1324:ALA:HB1	1.52	0.89
1:D:1659:ASP:HA	1:D:1662:TYR:CD2	2.07	0.89
1:G:1207:GLN:NE2	1:G:1208:VAL:H	1.69	0.89
1:G:1303:GLY:HA2	1:G:1649:LYS:HD2	1.52	0.89
2:B:720:UNK:O	2:B:722:UNK:N	2.06	0.89
1:D:1207:GLN:HE21	1:D:1208:VAL:H	1.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1329:VAL:HG13	1:D:1330:GLY:H	1.38	0.89
1:A:1454:THR:HG23	1:A:1455:ARG:N	1.86	0.89
1:A:1714:VAL:HG11	1:A:1731:LEU:HD13	1.53	0.89
2:B:145:LEU:HD13	2:B:551:UNK:HA	1.52	0.89
1:D:716:ASP:O	1:D:719:GLN:HB3	1.72	0.89
1:D:1302:VAL:HG23	1:D:1649:LYS:HE3	1.54	0.89
2:H:145:LEU:HD13	2:H:551:UNK:HA	1.53	0.89
1:A:1579:PHE:O	1:A:1580:LEU:HB3	1.72	0.89
1:D:653:UNK:HA	1:D:656:UNK:CB	2.03	0.89
1:D:1353:LEU:N	1:D:1356:PHE:HB2	1.87	0.89
1:D:1422:GLY:CA	1:D:1425:ILE:HB	2.02	0.89
2:E:157:VAL:HG13	2:E:269:GLY:HA3	1.54	0.89
1:G:1628:SER:O	1:G:1630:THR:N	2.05	0.89
1:A:1659:ASP:HA	1:A:1662:TYR:CD2	2.07	0.89
1:A:586:UNK:CB	1:A:671:VAL:H	1.86	0.88
2:B:349:VAL:HG21	2:B:377:LEU:HD13	1.54	0.88
1:G:1659:ASP:HA	1:G:1662:TYR:CD2	2.09	0.88
2:H:1690:VAL:HG21	2:H:1787:ALA:HA	1.53	0.88
1:D:1132:GLU:N	1:D:1133:PRO:HD3	1.89	0.88
1:D:1257:LEU:O	1:D:1260:MET:HB2	1.72	0.88
1:D:1454:THR:HG23	1:D:1455:ARG:N	1.88	0.88
1:G:1452:LEU:HA	1:G:1456:GLU:HG3	1.54	0.88
2:H:483:ILE:HG22	2:H:484:ILE:N	1.87	0.88
2:B:1775:GLN:HE21	2:B:1836:MET:HG2	1.35	0.88
1:D:1541:PHE:O	1:D:1542:HIS:HB3	1.73	0.88
1:D:1711:GLU:HG2	1:D:1715:TYR:CE1	2.08	0.88
1:A:716:ASP:O	1:A:719:GLN:HB3	1.72	0.88
1:A:1060:ILE:HA	1:A:1079:LYS:HA	1.56	0.88
1:A:1067:LEU:CD1	1:A:1068:LYS:H	1.86	0.88
2:B:87:CYS:HA	2:B:90:GLU:HB3	1.53	0.88
1:D:1628:SER:O	1:D:1630:THR:N	2.04	0.88
2:E:1715:VAL:HG22	2:E:1716:ASN:H	1.37	0.88
1:G:1132:GLU:N	1:G:1133:PRO:HD3	1.88	0.88
1:G:1353:LEU:N	1:G:1356:PHE:HB2	1.87	0.88
1:G:1665:ILE:HD12	1:G:1669:ARG:H	1.38	0.88
1:D:1379:ALA:H	1:D:1583:HIS:HB3	1.37	0.88
1:D:1476:GLU:O	1:D:1477:ILE:HG12	1.73	0.88
1:D:1538:VAL:CG2	1:D:1639:VAL:HA	2.01	0.88
1:G:1405:ALA:HB3	1:G:1654:ILE:O	1.72	0.88
2:H:199:ILE:HG23	2:H:200:ARG:H	1.38	0.88
1:A:1114:TYR:C	1:A:1115:ASN:HD22	1.76	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1118:LYS:HE3	1:A:1120:GLU:CD	1.94	0.88
1:A:1131:LEU:HB2	1:A:1133:PRO:HD3	1.53	0.88
1:D:1189:ILE:HD11	1:D:1352:THR:HG23	1.54	0.88
1:D:1408:ALA:O	1:D:1409:THR:HG22	1.74	0.88
1:G:1422:GLY:CA	1:G:1425:ILE:HB	2.03	0.88
1:A:653:UNK:HA	1:A:656:UNK:CB	2.04	0.88
1:D:1060:ILE:HA	1:D:1079:LYS:HA	1.55	0.88
1:D:1118:LYS:HE2	1:D:1337:GLU:HA	1.56	0.88
2:E:199:ILE:HG23	2:E:200:ARG:H	1.37	0.88
2:E:242:GLY:HA2	2:E:245:GLN:HE21	1.38	0.88
1:G:1541:PHE:O	1:G:1542:HIS:HB3	1.72	0.88
2:H:238:CYS:O	2:H:241:ILE:HG22	1.73	0.88
2:H:1715:VAL:CB	2:H:1770:LEU:H	1.85	0.88
1:A:1158:PRO:HG2	1:A:1159:GLU:H	1.36	0.88
1:A:1167:LEU:O	1:A:1168:LEU:HB2	1.72	0.88
2:B:199:ILE:HG23	2:B:200:ARG:H	1.39	0.88
2:B:483:ILE:HG22	2:B:484:ILE:N	1.88	0.88
2:B:1690:VAL:HG21	2:B:1787:ALA:HA	1.55	0.88
1:D:1263:ASP:O	1:D:1264:ARG:HB2	1.72	0.88
1:D:1452:LEU:O	1:D:1456:GLU:HB2	1.74	0.88
1:G:905:LEU:H	1:G:905:LEU:HD22	1.37	0.88
1:G:1117:GLU:O	1:G:1119:LYS:N	2.07	0.88
1:G:1189:ILE:HG23	1:G:1377:MET:SD	2.14	0.88
1:G:1452:LEU:O	1:G:1456:GLU:HB2	1.73	0.88
1:A:1211:ILE:O	1:A:1213:LEU:N	2.06	0.88
1:D:1583:HIS:H	1:D:1583:HIS:HD2	1.19	0.88
2:E:238:CYS:HA	2:E:275:GLN:NE2	1.89	0.88
2:E:387:TYR:HA	2:E:390:ASN:HD22	1.37	0.88
1:G:1408:ALA:O	1:G:1409:THR:HG22	1.72	0.88
2:H:238:CYS:HA	2:H:275:GLN:NE2	1.89	0.88
2:H:387:TYR:HA	2:H:390:ASN:HD22	1.39	0.88
1:A:1541:PHE:O	1:A:1542:HIS:HB3	1.73	0.87
1:G:1158:PRO:HG2	1:G:1159:GLU:H	1.38	0.87
1:G:1211:ILE:O	1:G:1213:LEU:N	2.07	0.87
2:H:242:GLY:HA2	2:H:245:GLN:HE21	1.37	0.87
1:A:1302:VAL:HG23	1:A:1649:LYS:HE3	1.54	0.87
1:D:1189:ILE:HG23	1:D:1377:MET:SD	2.13	0.87
1:D:1332:TYR:N	1:D:1587:ALA:HB2	1.87	0.87
1:D:1506:GLN:HA	1:D:1510:ASN:HD22	1.40	0.87
1:G:1476:GLU:O	1:G:1477:ILE:HG12	1.74	0.87
2:B:109:LEU:HD11	2:B:533:LEU:HA	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1254:VAL:HG22	1:D:1255:SER:H	1.40	0.87
1:G:1614:VAL:O	1:G:1615:ASP:HB3	1.74	0.87
1:A:1501:LEU:HD22	1:A:1505:GLN:HE21	1.39	0.87
1:D:586:UNK:CB	1:D:671:VAL:H	1.88	0.87
2:E:349:VAL:HG21	2:E:377:LEU:HD13	1.56	0.87
1:G:556:UNK:O	1:G:558:UNK:N	2.08	0.87
2:E:483:ILE:HG22	2:E:484:ILE:N	1.88	0.87
2:E:503:ASP:O	2:E:528:ILE:HG12	1.74	0.87
2:H:29:ILE:HG13	2:H:61:VAL:HG22	1.54	0.87
2:B:503:ASP:O	2:B:528:ILE:HG12	1.73	0.87
1:D:1579:PHE:O	1:D:1580:LEU:HB3	1.73	0.87
2:E:1715:VAL:CB	2:E:1770:LEU:H	1.88	0.87
1:G:586:UNK:CB	1:G:671:VAL:H	1.88	0.87
1:G:1118:LYS:HE3	1:G:1120:GLU:CD	1.93	0.87
1:G:1291:LEU:H	1:G:1701:LYS:CD	1.88	0.87
1:A:1079:LYS:HD2	1:A:1098:LEU:CD2	2.03	0.87
1:A:1422:GLY:CA	1:A:1425:ILE:HB	2.04	0.87
1:A:1711:GLU:HG2	1:A:1715:TYR:CE1	2.08	0.87
2:B:404:GLN:HG3	2:B:408:PRO:HG3	1.54	0.87
2:B:1704:PHE:HB2	2:B:1719:ILE:HD13	1.57	0.87
2:E:344:LEU:HD13	2:E:345:THR:H	1.40	0.87
2:H:236:ILE:O	2:H:240:LEU:HD13	1.74	0.87
1:A:1280:ILE:HD12	1:A:1280:ILE:N	1.90	0.87
2:B:1864:ALA:C	2:B:1866:PHE:H	1.72	0.87
2:E:87:CYS:HA	2:E:90:GLU:HB3	1.55	0.87
1:D:1385:GLN:NE2	1:D:1593:MET:HG3	1.90	0.87
1:D:1714:VAL:HG11	1:D:1731:LEU:HD13	1.54	0.87
2:E:241:ILE:HG21	2:E:275:GLN:NE2	1.88	0.87
1:G:1189:ILE:HD11	1:G:1352:THR:HG23	1.55	0.87
2:H:87:CYS:HA	2:H:90:GLU:HB3	1.54	0.87
2:B:260:PRO:HG3	2:B:292:PHE:HB2	1.57	0.86
2:B:387:TYR:HA	2:B:390:ASN:HD22	1.39	0.86
1:D:1063:HIS:C	1:D:1065:GLY:N	2.28	0.86
1:D:1665:ILE:HD12	1:D:1669:ARG:H	1.39	0.86
2:E:720:UNK:O	2:E:722:UNK:N	2.08	0.86
1:A:1299:LYS:HZ1	1:A:1323:LYS:HZ1	1.20	0.86
1:A:1665:ILE:HD12	1:A:1669:ARG:H	1.38	0.86
1:D:1406:MET:O	1:D:1653:ALA:HB1	1.76	0.86
1:D:1462:TRP:HZ3	1:D:1466:GLU:HB2	1.39	0.86
1:D:1583:HIS:ND1	1:D:1585:LYS:N	2.23	0.86
2:E:1880:LYS:HD3	2:E:1899:VAL:CG1	2.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1292:ILE:O	1:G:1292:ILE:HG12	1.74	0.86
1:G:1369:ALA:HA	1:G:1547:LYS:HD2	1.57	0.86
1:G:1711:GLU:HG2	1:G:1715:TYR:CE1	2.10	0.86
2:B:29:ILE:HG13	2:B:61:VAL:HG22	1.54	0.86
2:E:433:VAL:H	2:E:434:PRO:HD2	1.40	0.86
1:G:1022:THR:HG22	1:G:1226:SER:CB	2.02	0.86
1:G:1208:VAL:HA	1:G:1277:GLU:CG	2.05	0.86
1:G:1280:ILE:HD12	1:G:1280:ILE:N	1.91	0.86
2:H:1715:VAL:HG22	2:H:1716:ASN:H	1.38	0.86
1:D:1280:ILE:HD12	1:D:1280:ILE:N	1.89	0.86
1:A:1223:PHE:CE2	1:A:1386:ILE:HG21	2.08	0.86
2:B:41:LEU:HB3	2:B:46:GLU:H	1.40	0.86
1:D:1079:LYS:HD2	1:D:1098:LEU:HD21	1.57	0.86
2:E:109:LEU:HD11	2:E:533:LEU:HA	1.56	0.86
1:G:1379:ALA:H	1:G:1583:HIS:HB3	1.37	0.86
1:G:1396:MET:HA	1:G:1676:LYS:CD	2.06	0.86
2:H:433:VAL:H	2:H:434:PRO:HD2	1.39	0.86
1:A:1506:GLN:HA	1:A:1510:ASN:HD22	1.39	0.86
1:D:1067:LEU:CD1	1:D:1068:LYS:H	1.87	0.86
1:G:653:UNK:HA	1:G:656:UNK:CB	2.05	0.86
1:A:710:PHE:HE1	1:A:736:PRO:HD3	1.39	0.86
1:A:1263:ASP:O	1:A:1264:ARG:HB2	1.74	0.86
2:B:1709:ILE:HD11	2:B:1719:ILE:HD11	1.56	0.86
1:D:1211:ILE:O	1:D:1213:LEU:N	2.08	0.86
1:A:1408:ALA:O	1:A:1409:THR:HG22	1.75	0.86
1:G:710:PHE:HE1	1:G:736:PRO:HD3	1.36	0.86
2:H:404:GLN:HG3	2:H:408:PRO:HG3	1.56	0.86
1:A:556:UNK:O	1:A:558:UNK:N	2.08	0.86
1:A:1070:ARG:HG3	1:A:1071:PRO:HD2	1.58	0.86
1:A:1257:LEU:O	1:A:1260:MET:HB2	1.74	0.86
1:D:692:VAL:O	1:D:696:LEU:HD23	1.75	0.86
1:D:700:GLY:HA2	1:D:727:ALA:HB3	1.57	0.86
1:A:920:SER:HB2	1:A:921:PRO:HD2	1.58	0.86
1:A:1208:VAL:HA	1:A:1277:GLU:CG	2.06	0.86
2:B:1138:UNK:HA	2:B:1195:UNK:CB	2.06	0.86
1:D:1473:GLU:O	1:D:1476:GLU:HB3	1.76	0.86
2:E:1903:ASP:OD1	2:E:1907:LEU:HD21	1.76	0.86
1:G:1114:TYR:C	1:G:1115:ASN:HD22	1.79	0.86
1:G:1462:TRP:HZ3	1:G:1466:GLU:HB2	1.39	0.86
1:G:1583:HIS:ND1	1:G:1585:LYS:N	2.24	0.86
2:H:109:LEU:HD11	2:H:533:LEU:HA	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:503:ASP:O	2:H:528:ILE:HG12	1.75	0.86
2:H:1880:LYS:HD3	2:H:1899:VAL:CG1	2.05	0.86
1:A:1062:TYR:HE2	1:A:1693:ILE:HD12	1.40	0.85
2:B:236:ILE:O	2:B:240:LEU:HD13	1.75	0.85
2:B:242:GLY:HA2	2:B:245:GLN:HE21	1.40	0.85
2:B:1880:LYS:HD3	2:B:1899:VAL:HG13	1.58	0.85
1:D:1067:LEU:HD21	1:D:1073:THR:CA	2.06	0.85
2:E:41:LEU:HB3	2:E:46:GLU:H	1.40	0.85
2:E:1704:PHE:HB2	2:E:1719:ILE:HD13	1.57	0.85
1:G:1506:GLN:HA	1:G:1510:ASN:HD22	1.38	0.85
2:H:2047:UNK:C	2:H:2049:UNK:H	1.88	0.85
2:B:67:TYR:C	2:B:69:SER:H	1.77	0.85
2:B:85:ASN:HD21	2:B:134:LYS:HB2	1.41	0.85
1:D:1167:LEU:O	1:D:1168:LEU:HB2	1.76	0.85
1:G:1223:PHE:CE2	1:G:1386:ILE:HG21	2.10	0.85
2:B:344:LEU:HD13	2:B:345:THR:H	1.42	0.85
1:D:1201:SER:HB3	1:D:1204:ILE:CG1	2.07	0.85
1:D:1208:VAL:HA	1:D:1277:GLU:CG	2.05	0.85
2:E:67:TYR:C	2:E:69:SER:H	1.77	0.85
1:G:1118:LYS:HE2	1:G:1337:GLU:HA	1.58	0.85
1:G:1167:LEU:O	1:G:1168:LEU:HB2	1.73	0.85
2:H:1138:UNK:HA	2:H:1195:UNK:CB	2.07	0.85
1:A:1473:GLU:O	1:A:1476:GLU:HB3	1.75	0.85
1:D:920:SER:HB2	1:D:921:PRO:HD2	1.58	0.85
1:D:1070:ARG:HG3	1:D:1071:PRO:HD2	1.58	0.85
1:G:1062:TYR:HE2	1:G:1693:ILE:HD12	1.40	0.85
1:G:1302:VAL:HG23	1:G:1649:LYS:HE3	1.57	0.85
1:A:1131:LEU:N	1:A:1173:LEU:HD22	1.91	0.85
1:D:905:LEU:H	1:D:905:LEU:HD22	1.41	0.85
1:G:681:THR:HB	1:G:771:PHE:N	1.91	0.85
1:G:1060:ILE:HA	1:G:1079:LYS:HA	1.56	0.85
1:G:1169:LYS:HG3	1:G:1170:GLY:H	1.39	0.85
2:H:1812:TYR:H	2:H:1812:TYR:HD2	1.24	0.85
1:D:681:THR:HB	1:D:771:PHE:N	1.90	0.85
1:D:1169:LYS:HG3	1:D:1170:GLY:H	1.37	0.85
1:D:1291:LEU:H	1:D:1701:LYS:CD	1.86	0.85
1:G:1151:LYS:HE3	1:G:1175:ILE:HD13	1.59	0.85
2:H:720:UNK:O	2:H:722:UNK:N	2.10	0.85
1:D:556:UNK:O	1:D:558:UNK:N	2.10	0.85
1:D:869:ILE:HG23	1:D:926:LEU:HB2	1.59	0.85
2:E:236:ILE:O	2:E:240:LEU:HD13	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1329:VAL:HG13	1:G:1330:GLY:N	1.91	0.85
1:A:905:LEU:HD22	1:A:905:LEU:H	1.42	0.85
1:A:1063:HIS:C	1:A:1065:GLY:N	2.28	0.85
1:A:1291:LEU:H	1:A:1701:LYS:CD	1.88	0.85
1:A:1406:MET:O	1:A:1653:ALA:HB1	1.76	0.85
1:A:1456:GLU:H	1:A:1459:ILE:CG1	1.90	0.85
2:E:260:PRO:HG3	2:E:292:PHE:HB2	1.58	0.85
1:G:1107:GLU:HB3	1:G:1108:PRO:HD3	1.59	0.85
2:B:433:VAL:H	2:B:434:PRO:HD2	1.39	0.85
1:D:1062:TYR:HE2	1:D:1693:ILE:HD12	1.40	0.85
1:D:1184:LEU:HD22	1:D:1341:PHE:HD2	1.42	0.85
1:A:826:MET:HB2	1:A:868:ILE:HA	1.58	0.85
1:A:1235:TYR:O	1:A:1721:ARG:HA	1.77	0.85
1:A:1396:MET:HA	1:A:1676:LYS:CD	2.07	0.85
1:G:1558:ASN:CG	1:G:1620:GLN:HB3	1.96	0.85
1:A:700:GLY:HA2	1:A:727:ALA:HB3	1.59	0.84
1:A:1329:VAL:HG13	1:A:1330:GLY:N	1.92	0.84
1:D:1117:GLU:O	1:D:1119:LYS:N	2.10	0.84
1:D:1118:LYS:HE3	1:D:1120:GLU:CD	1.96	0.84
1:A:1107:GLU:HB3	1:A:1108:PRO:HD3	1.60	0.84
1:D:1114:TYR:C	1:D:1115:ASN:HD22	1.79	0.84
1:D:1501:LEU:HD22	1:D:1505:GLN:HE21	1.42	0.84
1:G:993:PRO:HG3	1:G:1681:GLU:HB3	1.60	0.84
1:A:1178:ALA:O	1:A:1179:LEU:HD22	1.76	0.84
1:A:1302:VAL:O	1:A:1307:THR:HB	1.77	0.84
1:D:1223:PHE:CE2	1:D:1386:ILE:HG21	2.12	0.84
1:D:1235:TYR:O	1:D:1721:ARG:HA	1.77	0.84
1:D:1639:VAL:HG22	1:D:1655:VAL:O	1.77	0.84
2:H:1903:ASP:OD1	2:H:1907:LEU:HD21	1.77	0.84
2:B:241:ILE:HG21	2:B:275:GLN:NE2	1.91	0.84
1:A:1081:LYS:H	1:A:1081:LYS:HD3	1.43	0.84
1:D:1292:ILE:O	1:D:1292:ILE:HG12	1.78	0.84
1:A:1659:ASP:HA	1:A:1662:TYR:HD2	1.43	0.84
2:B:187:LEU:HD21	2:B:296:VAL:HG21	1.59	0.84
2:E:2047:UNK:C	2:E:2049:UNK:H	1.89	0.84
1:G:1385:GLN:NE2	1:G:1593:MET:HG3	1.92	0.84
2:H:92:GLU:HA	2:H:96:LEU:HD11	1.60	0.84
2:H:349:VAL:HG21	2:H:377:LEU:HD13	1.57	0.84
2:B:92:GLU:HA	2:B:96:LEU:HD11	1.59	0.84
1:G:700:GLY:HA2	1:G:727:ALA:HB3	1.59	0.84
1:G:1070:ARG:HG3	1:G:1071:PRO:HD2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:241:ILE:HG21	2:H:275:GLN:NE2	1.92	0.84
1:D:1456:GLU:H	1:D:1459:ILE:CG1	1.91	0.84
1:G:1257:LEU:O	1:G:1260:MET:HB2	1.78	0.84
1:A:1201:SER:HB3	1:A:1204:ILE:CG1	2.08	0.84
2:B:1715:VAL:CB	2:B:1770:LEU:H	1.89	0.84
1:D:677:TYR:CE2	1:D:702:LYS:HD2	2.12	0.84
2:E:241:ILE:CG2	2:E:275:GLN:HE21	1.89	0.84
1:G:587:UNK:CB	1:G:906:LEU:HD21	2.08	0.84
1:G:1067:LEU:HD21	1:G:1073:THR:CA	2.08	0.84
1:G:1106:ILE:O	1:G:1107:GLU:HB2	1.77	0.84
2:H:260:PRO:HG3	2:H:292:PHE:HB2	1.58	0.84
1:A:869:ILE:HG23	1:A:926:LEU:HB2	1.60	0.83
1:A:1128:GLU:HB3	1:A:1177:LYS:HE3	1.59	0.83
1:A:1558:ASN:CG	1:A:1620:GLN:HB3	1.99	0.83
2:B:367:GLU:O	2:B:379:VAL:HG13	1.78	0.83
2:B:1899:VAL:O	2:B:1903:ASP:HB3	1.78	0.83
1:D:993:PRO:HG3	1:D:1681:GLU:HB3	1.59	0.83
1:D:1290:LEU:HA	1:D:1701:LYS:HZ2	1.43	0.83
1:D:1410:ALA:HB3	1:D:1426:LEU:HB2	1.60	0.83
2:E:483:ILE:HG22	2:E:484:ILE:HG23	1.59	0.83
1:G:828:PRO:HG2	1:G:829:ASN:ND2	1.92	0.83
1:G:1235:TYR:O	1:G:1721:ARG:HA	1.77	0.83
1:G:1473:GLU:O	1:G:1476:GLU:HB3	1.77	0.83
2:H:367:GLU:O	2:H:379:VAL:HG13	1.78	0.83
1:A:1299:LYS:NZ	1:A:1323:LYS:HZ1	1.76	0.83
1:D:1581:THR:HG22	1:D:1591:TRP:CZ3	2.13	0.83
2:E:85:ASN:HD21	2:E:134:LYS:HB2	1.43	0.83
2:E:1138:UNK:HA	2:E:1195:UNK:CB	2.07	0.83
1:G:756:GLU:HA	1:G:760:GLY:HA2	1.59	0.83
1:G:1535:ASP:HB2	1:G:1566:ARG:NH2	1.93	0.83
1:A:828:PRO:HG2	1:A:829:ASN:ND2	1.93	0.83
1:A:1067:LEU:HD21	1:A:1073:THR:CA	2.07	0.83
1:D:1104:ARG:NE	1:D:1104:ARG:HA	1.93	0.83
1:G:1254:VAL:HG22	1:G:1255:SER:H	1.41	0.83
1:A:1246:CYS:CB	1:A:1328:ILE:HG23	2.08	0.83
1:A:1639:VAL:HG22	1:A:1655:VAL:O	1.78	0.83
2:B:240:LEU:O	2:B:244:ILE:HG13	1.78	0.83
1:D:756:GLU:HA	1:D:760:GLY:HA2	1.59	0.83
1:D:826:MET:HB2	1:D:868:ILE:HA	1.61	0.83
1:D:999:LYS:HB2	1:D:1666:THR:O	1.78	0.83
1:G:1406:MET:O	1:G:1653:ALA:HB1	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1704:PHE:HB2	2:H:1719:ILE:HD13	1.57	0.83
1:A:677:TYR:CE2	1:A:702:LYS:HD2	2.12	0.83
1:A:681:THR:HB	1:A:771:PHE:N	1.93	0.83
1:D:1246:CYS:CB	1:D:1328:ILE:HG23	2.08	0.83
1:G:677:TYR:CE2	1:G:702:LYS:HD2	2.13	0.83
1:G:907:GLY:C	1:G:909:LEU:H	1.80	0.83
2:H:221:ASN:H	2:H:221:ASN:HD22	1.26	0.83
2:B:234:ILE:HG23	2:B:235:PRO:CD	2.08	0.83
1:D:1081:LYS:H	1:D:1081:LYS:HD3	1.43	0.83
1:D:1106:ILE:O	1:D:1107:GLU:HB2	1.77	0.83
1:G:1024:PHE:HB2	1:G:1385:GLN:HG2	1.60	0.83
1:G:1535:ASP:HB2	1:G:1566:ARG:CZ	2.09	0.83
2:B:241:ILE:CG2	2:B:275:GLN:HE21	1.91	0.83
2:B:1903:ASP:OD1	2:B:1907:LEU:HD21	1.79	0.83
1:D:424:UNK:CB	1:D:786:SER:HA	2.09	0.83
1:D:1151:LYS:HE3	1:D:1175:ILE:HD13	1.59	0.83
1:D:1236:LYS:HG3	1:D:1236:LYS:O	1.78	0.83
1:G:1254:VAL:O	1:G:1256:ALA:N	2.12	0.83
1:A:1410:ALA:HB3	1:A:1426:LEU:HB2	1.60	0.83
1:G:1456:GLU:H	1:G:1459:ILE:CG1	1.92	0.83
2:H:85:ASN:HD21	2:H:134:LYS:HB2	1.43	0.83
2:H:483:ILE:HG22	2:H:484:ILE:HG23	1.58	0.83
1:A:802:MET:O	1:A:806:VAL:HG23	1.79	0.83
1:A:1024:PHE:HB2	1:A:1385:GLN:HG2	1.61	0.83
1:A:1254:VAL:HG22	1:A:1255:SER:H	1.43	0.83
1:A:1385:GLN:NE2	1:A:1593:MET:HG3	1.94	0.83
1:D:1118:LYS:O	1:D:1120:GLU:HG2	1.79	0.83
1:G:920:SER:HB2	1:G:921:PRO:HD2	1.59	0.83
1:G:1178:ALA:O	1:G:1179:LEU:HD22	1.78	0.83
1:G:1501:LEU:HD22	1:G:1505:GLN:HE21	1.42	0.83
2:H:234:ILE:HG23	2:H:235:PRO:CD	2.07	0.83
2:H:517:HIS:HB2	2:H:526:ARG:HG3	1.61	0.83
1:D:1558:ASN:CG	1:D:1620:GLN:HB3	1.98	0.83
1:G:1079:LYS:HD2	1:G:1098:LEU:HD21	1.60	0.83
1:G:1104:ARG:NE	1:G:1104:ARG:HA	1.92	0.83
1:A:1104:ARG:NE	1:A:1104:ARG:HA	1.93	0.82
1:A:1118:LYS:HE2	1:A:1337:GLU:HA	1.57	0.82
1:G:1454:THR:CG2	1:G:1455:ARG:H	1.91	0.82
2:H:344:LEU:HD13	2:H:345:THR:H	1.42	0.82
2:H:1709:ILE:HD11	2:H:1719:ILE:HD11	1.59	0.82
1:A:1189:ILE:HD12	1:A:1377:MET:HE2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1519:ILE:HG13	1:A:1523:ARG:HD2	1.61	0.82
1:D:1189:ILE:HD12	1:D:1377:MET:HE2	1.58	0.82
2:E:92:GLU:HA	2:E:96:LEU:HD11	1.61	0.82
1:A:424:UNK:CB	1:A:786:SER:HA	2.09	0.82
1:A:1535:ASP:HB2	1:A:1566:ARG:CZ	2.08	0.82
2:B:2047:UNK:C	2:B:2049:UNK:H	1.89	0.82
1:D:802:MET:O	1:D:806:VAL:HG23	1.78	0.82
1:D:1535:ASP:HB2	1:D:1566:ARG:NH2	1.94	0.82
2:E:1899:VAL:O	2:E:1903:ASP:HB3	1.79	0.82
1:D:1131:LEU:N	1:D:1173:LEU:HD22	1.93	0.82
2:E:1827:LEU:O	2:E:1831:VAL:HG23	1.78	0.82
1:G:1201:SER:HB3	1:G:1204:ILE:CG1	2.07	0.82
2:H:339:LEU:HB3	2:H:386:LEU:HD21	1.62	0.82
1:A:999:LYS:HB2	1:A:1666:THR:O	1.79	0.82
1:D:712:LYS:O	1:D:716:ASP:HB2	1.79	0.82
2:E:1855:ILE:HD11	2:E:1857:ILE:HD11	1.62	0.82
1:G:802:MET:O	1:G:806:VAL:HG23	1.80	0.82
2:H:41:LEU:HB3	2:H:46:GLU:H	1.43	0.82
1:A:1535:ASP:HB2	1:A:1566:ARG:NH2	1.93	0.82
1:D:1405:ALA:HB3	1:D:1654:ILE:O	1.79	0.82
2:E:221:ASN:H	2:E:221:ASN:HD22	1.28	0.82
1:G:676:LYS:O	1:G:766:ASP:HB2	1.79	0.82
1:G:712:LYS:O	1:G:716:ASP:HB2	1.79	0.82
1:A:756:GLU:HA	1:A:760:GLY:HA2	1.61	0.82
1:A:1462:TRP:CZ3	1:A:1466:GLU:HB2	2.14	0.82
2:B:1715:VAL:HG22	2:B:1716:ASN:N	1.94	0.82
2:E:240:LEU:O	2:E:244:ILE:HG13	1.80	0.82
1:A:1082:GLU:H	1:A:1083:PRO:HD3	1.45	0.82
1:D:1019:ILE:HG13	1:D:1316:VAL:HG23	1.61	0.82
1:D:1107:GLU:HB3	1:D:1108:PRO:HD3	1.59	0.82
1:D:1535:ASP:HB2	1:D:1566:ARG:CZ	2.09	0.82
2:E:339:LEU:HB3	2:E:386:LEU:HD21	1.62	0.82
1:G:1082:GLU:H	1:G:1083:PRO:HD3	1.45	0.82
1:G:1119:LYS:HE3	1:G:1121:MET:HB2	1.60	0.82
2:H:187:LEU:HD21	2:H:296:VAL:HG21	1.62	0.82
1:A:712:LYS:O	1:A:716:ASP:HB2	1.80	0.82
1:A:1153:ASP:OD1	1:A:1157:ILE:HG23	1.79	0.82
1:D:828:PRO:HG2	1:D:829:ASN:ND2	1.94	0.82
1:D:1302:VAL:O	1:D:1307:THR:HB	1.80	0.82
1:G:1022:THR:HG21	1:G:1388:MET:HE2	1.58	0.82
1:A:676:LYS:O	1:A:766:ASP:HB2	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:203:LEU:O	2:B:204:ASP:HB2	1.79	0.82
2:B:483:ILE:HG22	2:B:484:ILE:HG23	1.60	0.82
1:D:1396:MET:HA	1:D:1676:LYS:CD	2.09	0.82
1:G:999:LYS:HB2	1:G:1666:THR:O	1.80	0.82
1:G:1019:ILE:HG13	1:G:1316:VAL:HG23	1.61	0.82
1:G:1246:CYS:CB	1:G:1328:ILE:HG23	2.09	0.82
2:H:1899:VAL:O	2:H:1903:ASP:HB3	1.79	0.82
2:B:166:THR:HG22	2:B:168:ASP:H	1.44	0.81
1:G:1067:LEU:HD23	1:G:1074:GLY:O	1.79	0.81
1:A:1079:LYS:HD2	1:A:1098:LEU:HD21	1.61	0.81
1:D:1462:TRP:CZ3	1:D:1466:GLU:HB2	2.15	0.81
1:D:1618:LEU:HD22	1:D:1623:TYR:OH	1.80	0.81
2:E:367:GLU:O	2:E:379:VAL:HG13	1.79	0.81
2:E:1715:VAL:HG22	2:E:1716:ASN:N	1.94	0.81
1:G:1302:VAL:O	1:G:1307:THR:HB	1.79	0.81
1:A:1067:LEU:HD23	1:A:1074:GLY:O	1.80	0.81
1:A:1119:LYS:HE3	1:A:1121:MET:HB2	1.60	0.81
1:A:1434:SER:OG	1:A:1436:VAL:HG23	1.79	0.81
2:B:72:VAL:HB	2:B:74:PRO:HD2	1.61	0.81
1:D:587:UNK:CB	1:D:906:LEU:HD21	2.10	0.81
1:D:1024:PHE:HB2	1:D:1385:GLN:HG2	1.62	0.81
1:D:1408:ALA:HB1	1:D:1651:GLY:C	2.01	0.81
1:G:826:MET:HB2	1:G:868:ILE:HA	1.61	0.81
1:G:1236:LYS:O	1:G:1236:LYS:HG3	1.78	0.81
1:G:1410:ALA:HB3	1:G:1426:LEU:HB2	1.60	0.81
1:A:1405:ALA:HB3	1:A:1654:ILE:O	1.80	0.81
2:B:259:THR:HG22	2:B:260:PRO:HD2	1.62	0.81
2:B:1855:ILE:HD11	2:B:1857:ILE:HD11	1.63	0.81
1:D:1051:VAL:HA	1:D:1094:GLU:OE1	1.80	0.81
1:D:1519:ILE:HG13	1:D:1523:ARG:HD2	1.62	0.81
2:H:203:LEU:O	2:H:204:ASP:HB2	1.77	0.81
2:H:256:LEU:HD23	2:H:263:LEU:HD21	1.62	0.81
1:A:993:PRO:HG3	1:A:1681:GLU:HB3	1.61	0.81
2:B:1821:VAL:HG23	2:B:1822:MET:H	1.46	0.81
1:G:1063:HIS:C	1:G:1065:GLY:N	2.28	0.81
1:G:1434:SER:OG	1:G:1436:VAL:HG23	1.80	0.81
2:H:1695:ASP:OD1	2:H:1705:SER:HB2	1.81	0.81
1:A:1169:LYS:HG3	1:A:1170:GLY:H	1.44	0.81
1:D:1547:LYS:HA	1:D:1550:ASP:CB	2.09	0.81
1:D:1659:ASP:HA	1:D:1662:TYR:HD2	1.42	0.81
2:E:234:ILE:HG23	2:E:235:PRO:CD	2.08	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1821:VAL:HG23	2:E:1822:MET:H	1.45	0.81
1:G:1118:LYS:O	1:G:1120:GLU:HG2	1.80	0.81
1:G:1353:LEU:O	1:G:1354:GLU:HB2	1.80	0.81
1:G:1385:GLN:HE22	1:G:1593:MET:CG	1.94	0.81
1:G:1547:LYS:HA	1:G:1550:ASP:CB	2.11	0.81
2:H:72:VAL:HB	2:H:74:PRO:HD2	1.62	0.81
2:H:1715:VAL:HG22	2:H:1716:ASN:N	1.95	0.81
1:A:1101:SER:C	1:A:1103:ILE:H	1.83	0.81
2:E:1880:LYS:HD3	2:E:1899:VAL:HG13	1.61	0.81
2:H:234:ILE:HG13	2:H:238:CYS:SG	2.21	0.81
1:A:1236:LYS:HG3	1:A:1236:LYS:O	1.80	0.81
2:B:41:LEU:HD22	2:B:46:GLU:CA	2.10	0.81
2:E:367:GLU:HB2	2:E:430:HIS:CE1	2.15	0.81
1:G:830:HIS:H	1:G:830:HIS:CD2	1.98	0.81
2:H:367:GLU:HB2	2:H:430:HIS:CE1	2.16	0.81
1:D:1107:GLU:CB	1:D:1108:PRO:HD3	2.11	0.81
1:G:869:ILE:HG23	1:G:926:LEU:HB2	1.60	0.81
1:G:1081:LYS:H	1:G:1081:LYS:HD3	1.44	0.81
1:A:587:UNK:CB	1:A:906:LEU:HD21	2.11	0.81
1:D:1119:LYS:HE3	1:D:1121:MET:HB2	1.62	0.81
1:D:1329:VAL:HG13	1:D:1330:GLY:N	1.93	0.81
1:D:1353:LEU:O	1:D:1354:GLU:HB2	1.79	0.81
1:D:1385:GLN:HE22	1:D:1593:MET:CG	1.93	0.81
2:E:166:THR:HG22	2:E:168:ASP:H	1.46	0.81
1:G:1661:LEU:HD23	1:G:1661:LEU:O	1.81	0.81
2:H:67:TYR:C	2:H:69:SER:H	1.78	0.81
1:A:1254:VAL:O	1:A:1256:ALA:N	2.14	0.80
2:B:1379:UNK:HA	2:B:1426:UNK:HA	1.62	0.80
2:B:1812:TYR:H	2:B:1812:TYR:HD2	1.29	0.80
2:B:1924:ILE:HG22	2:B:1925:ILE:H	1.45	0.80
1:D:1067:LEU:HD23	1:D:1074:GLY:O	1.81	0.80
1:D:1254:VAL:C	1:D:1256:ALA:H	1.85	0.80
1:G:1035:THR:HG21	1:G:1053:MET:SD	2.21	0.80
1:A:1107:GLU:CB	1:A:1108:PRO:HD3	2.11	0.80
1:A:1292:ILE:O	1:A:1292:ILE:HG12	1.78	0.80
1:A:1413:LYS:HB2	1:A:1425:ILE:HD12	1.62	0.80
1:A:1583:HIS:ND1	1:A:1585:LYS:N	2.27	0.80
1:A:1661:LEU:HD23	1:A:1661:LEU:O	1.82	0.80
1:D:1082:GLU:H	1:D:1083:PRO:HD3	1.45	0.80
1:D:1434:SER:OG	1:D:1436:VAL:HG23	1.81	0.80
1:G:1243:VAL:HG12	1:G:1324:ALA:HA	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1423:LYS:CB	1:G:1552:ASN:HD21	1.95	0.80
1:G:1639:VAL:HG23	1:G:1640:SER:H	1.46	0.80
1:G:1659:ASP:HA	1:G:1662:TYR:HD2	1.43	0.80
2:H:259:THR:HG22	2:H:260:PRO:HD2	1.61	0.80
2:H:1776:PHE:O	2:H:1779:PRO:HD2	1.80	0.80
1:A:1226:SER:O	1:A:1228:ILE:HG23	1.81	0.80
1:A:1454:THR:CG2	1:A:1455:ARG:H	1.91	0.80
1:D:1190:PRO:CG	1:D:1378:GLU:O	2.28	0.80
2:E:1776:PHE:O	2:E:1779:PRO:HD2	1.81	0.80
1:G:1107:GLU:CB	1:G:1108:PRO:HD3	2.11	0.80
1:G:1313:ASP:O	1:G:1316:VAL:HG12	1.81	0.80
1:G:1398:VAL:HG22	1:G:1399:PRO:O	1.81	0.80
1:A:1082:GLU:H	1:A:1083:PRO:CD	1.93	0.80
1:A:1106:ILE:O	1:A:1107:GLU:HB2	1.78	0.80
1:A:1353:LEU:O	1:A:1354:GLU:HB2	1.81	0.80
1:D:1169:LYS:HG3	1:D:1170:GLY:N	1.95	0.80
2:E:203:LEU:O	2:E:204:ASP:HB2	1.78	0.80
1:G:1067:LEU:CG	1:G:1068:LYS:H	1.94	0.80
1:G:1211:ILE:HA	1:G:1214:PHE:CE2	2.16	0.80
2:H:366:VAL:HG13	2:H:380:SER:O	1.82	0.80
2:H:1827:LEU:O	2:H:1831:VAL:HG23	1.82	0.80
1:A:1118:LYS:HE3	1:A:1120:GLU:OE1	1.82	0.80
1:A:1225:ALA:C	1:A:1227:GLY:H	1.84	0.80
1:D:1152:VAL:CB	1:D:1154:ILE:HG12	2.11	0.80
2:E:1379:UNK:HA	2:E:1426:UNK:HA	1.63	0.80
1:G:1101:SER:C	1:G:1103:ILE:H	1.84	0.80
1:D:1243:VAL:HG12	1:D:1324:ALA:HA	1.62	0.80
2:E:41:LEU:HD22	2:E:46:GLU:CA	2.12	0.80
2:E:1884:TRP:HB2	2:E:1892:ASN:ND2	1.97	0.80
2:H:166:THR:HG22	2:H:168:ASP:H	1.44	0.80
2:H:241:ILE:CG2	2:H:275:GLN:HE21	1.92	0.80
1:A:1118:LYS:NZ	1:A:1337:GLU:HG3	1.97	0.80
1:A:1130:ASP:HB2	1:A:1174:TYR:H	1.46	0.80
2:B:221:ASN:H	2:B:221:ASN:HD22	1.28	0.80
2:E:517:HIS:HB2	2:E:526:ARG:HG3	1.63	0.80
1:G:1106:ILE:O	1:G:1106:ILE:HG22	1.82	0.80
1:G:1168:LEU:HD13	1:G:1169:LYS:HB2	1.64	0.80
1:G:1254:VAL:C	1:G:1256:ALA:H	1.82	0.80
1:G:1462:TRP:CZ3	1:G:1466:GLU:HB2	2.16	0.80
2:H:213:LEU:HD13	2:H:236:ILE:HG12	1.64	0.80
1:A:1243:VAL:HG12	1:A:1324:ALA:HA	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:676:LYS:O	1:D:766:ASP:HB2	1.81	0.80
2:E:72:VAL:HB	2:E:74:PRO:HD2	1.62	0.80
2:E:526:ARG:H	2:E:526:ARG:HD3	1.47	0.80
2:E:1778:GLN:HB2	2:E:1779:PRO:HD3	1.63	0.80
2:E:1924:ILE:HG22	2:E:1925:ILE:H	1.47	0.80
1:G:1118:LYS:HE3	1:G:1120:GLU:OE1	1.81	0.80
1:G:1580:LEU:HG	1:G:1580:LEU:O	1.81	0.80
2:B:256:LEU:HD23	2:B:263:LEU:HD21	1.64	0.80
2:B:1827:LEU:O	2:B:1831:VAL:HG23	1.82	0.80
1:D:907:GLY:C	1:D:909:LEU:H	1.83	0.80
1:D:1160:THR:HB	1:D:1166:LYS:HE3	1.64	0.80
1:G:1169:LYS:HG3	1:G:1170:GLY:N	1.97	0.80
1:G:1519:ILE:HG13	1:G:1523:ARG:HD2	1.63	0.80
1:A:1190:PRO:CG	1:A:1378:GLU:O	2.28	0.79
1:A:1408:ALA:HB1	1:A:1651:GLY:C	2.03	0.79
1:D:1583:HIS:CE1	1:D:1585:LYS:H	1.98	0.79
1:G:1153:ASP:OD1	1:G:1157:ILE:HG23	1.82	0.79
1:G:1491:ARG:HD3	1:G:1744:TYR:O	1.83	0.79
1:G:1626:TYR:O	1:G:1628:SER:N	2.15	0.79
2:H:146:PHE:CE2	2:H:256:LEU:HD21	2.17	0.79
1:A:1033:ALA:O	1:A:1035:THR:N	2.15	0.79
1:A:1448:ARG:HA	1:A:1451:GLN:HB3	1.65	0.79
1:D:899:LYS:C	1:D:901:MET:H	1.83	0.79
2:E:256:LEU:HD23	2:E:263:LEU:HD21	1.63	0.79
1:G:1022:THR:HG23	1:G:1398:VAL:CG2	2.09	0.79
1:G:1033:ALA:O	1:G:1035:THR:N	2.15	0.79
1:G:1110:LEU:HD11	1:G:1188:GLN:H	1.47	0.79
1:G:1189:ILE:HD12	1:G:1377:MET:HE2	1.63	0.79
2:H:240:LEU:O	2:H:244:ILE:HG13	1.81	0.79
2:H:1855:ILE:HD11	2:H:1857:ILE:HD11	1.64	0.79
2:H:1880:LYS:HD3	2:H:1899:VAL:HG13	1.62	0.79
1:A:1152:VAL:CB	1:A:1154:ILE:HG12	2.13	0.79
1:A:1254:VAL:C	1:A:1256:ALA:H	1.84	0.79
2:B:52:ASP:OD1	2:B:56:THR:HG21	1.83	0.79
2:B:367:GLU:HB2	2:B:430:HIS:CE1	2.16	0.79
2:B:517:HIS:HB2	2:B:526:ARG:HG3	1.63	0.79
1:D:1254:VAL:O	1:D:1256:ALA:N	2.16	0.79
1:D:1455:ARG:HG2	1:D:1504:ALA:HB2	1.65	0.79
2:E:146:PHE:CE2	2:E:256:LEU:HD21	2.18	0.79
1:A:907:GLY:C	1:A:909:LEU:H	1.83	0.79
1:A:1035:THR:HG23	1:A:1045:PHE:HE1	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1423:LYS:CB	1:A:1552:ASN:HD21	1.93	0.79
2:B:366:VAL:HG13	2:B:380:SER:O	1.81	0.79
1:D:1106:ILE:O	1:D:1106:ILE:HG22	1.83	0.79
2:E:366:VAL:HG13	2:E:380:SER:O	1.81	0.79
1:G:1254:VAL:HG13	1:G:1255:SER:N	1.98	0.79
1:A:1022:THR:HG23	1:A:1398:VAL:CG2	2.09	0.79
1:A:1487:LEU:O	1:A:1490:THR:HG22	1.82	0.79
2:B:339:LEU:HB3	2:B:386:LEU:HD21	1.64	0.79
2:E:187:LEU:HD21	2:E:296:VAL:HG21	1.62	0.79
2:H:1379:UNK:HA	2:H:1426:UNK:HA	1.62	0.79
2:H:1775:GLN:NE2	2:H:1836:MET:HG2	1.97	0.79
1:A:1160:THR:HB	1:A:1166:LYS:HE3	1.64	0.79
1:A:1228:ILE:HG13	1:A:1228:ILE:O	1.81	0.79
2:B:1173:UNK:CB	2:B:1181:UNK:H	1.95	0.79
1:D:1225:ALA:C	1:D:1227:GLY:H	1.86	0.79
1:D:1413:LYS:HB2	1:D:1425:ILE:HD12	1.63	0.79
1:G:424:UNK:CB	1:G:786:SER:HA	2.11	0.79
1:G:1035:THR:HG23	1:G:1045:PHE:HE1	1.46	0.79
1:G:1130:ASP:HB2	1:G:1174:TYR:H	1.46	0.79
1:G:1341:PHE:O	1:G:1342:GLU:HB2	1.83	0.79
1:G:1583:HIS:CD2	1:G:1583:HIS:N	2.51	0.79
2:H:52:ASP:OD1	2:H:56:THR:HG21	1.83	0.79
1:A:1392:LEU:H	1:A:1392:LEU:HD22	1.46	0.79
1:A:1448:ARG:HG2	1:A:1451:GLN:HG2	1.64	0.79
1:A:1455:ARG:HG2	1:A:1504:ALA:HB2	1.64	0.79
1:A:1456:GLU:H	1:A:1459:ILE:HG12	1.48	0.79
2:E:259:THR:HG22	2:E:260:PRO:HD2	1.62	0.79
2:E:1821:VAL:HG23	2:E:1822:MET:N	1.97	0.79
1:G:1220:VAL:O	1:G:1224:ILE:HG22	1.82	0.79
1:G:1558:ASN:OD1	1:G:1620:GLN:HB3	1.83	0.79
2:H:1821:VAL:HG23	2:H:1822:MET:H	1.46	0.79
1:A:899:LYS:C	1:A:901:MET:H	1.85	0.79
1:A:1019:ILE:HG13	1:A:1316:VAL:HG23	1.63	0.79
1:A:1070:ARG:CG	1:A:1071:PRO:HD2	2.13	0.79
1:A:1118:LYS:O	1:A:1120:GLU:HG2	1.82	0.79
1:A:1184:LEU:HD22	1:A:1341:PHE:HD2	1.47	0.79
1:A:1583:HIS:CE1	1:A:1585:LYS:H	2.01	0.79
1:D:1057:MET:SD	1:D:1106:ILE:HD11	2.23	0.79
1:D:1254:VAL:HG13	1:D:1255:SER:N	1.98	0.79
1:D:1313:ASP:O	1:D:1316:VAL:HG12	1.82	0.79
2:E:1173:UNK:CB	2:E:1181:UNK:H	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1082:GLU:H	1:G:1083:PRO:CD	1.93	0.79
1:A:1370:THR:H	1:A:1547:LYS:HD2	1.48	0.79
2:B:146:PHE:CE2	2:B:256:LEU:HD21	2.17	0.79
1:D:1299:LYS:NZ	1:D:1323:LYS:NZ	2.31	0.79
1:D:1487:LEU:O	1:D:1490:THR:HG22	1.82	0.79
1:D:1639:VAL:HG23	1:D:1640:SER:H	1.48	0.79
2:E:234:ILE:HG13	2:E:238:CYS:SG	2.22	0.79
2:E:526:ARG:HD3	2:E:526:ARG:N	1.98	0.79
1:G:1051:VAL:HA	1:G:1094:GLU:OE1	1.83	0.79
2:H:1778:GLN:HB2	2:H:1779:PRO:HD3	1.63	0.79
1:A:1107:GLU:CG	1:A:1108:PRO:HD3	2.13	0.79
1:D:1033:ALA:O	1:D:1035:THR:N	2.15	0.79
1:D:1082:GLU:H	1:D:1083:PRO:CD	1.94	0.79
1:D:1661:LEU:HD23	1:D:1661:LEU:O	1.82	0.79
2:E:52:ASP:OD1	2:E:56:THR:HG21	1.83	0.79
2:H:526:ARG:HD3	2:H:526:ARG:N	1.98	0.79
1:A:1583:HIS:CD2	1:A:1583:HIS:N	2.51	0.78
2:B:305:PHE:CD2	2:B:442:ASP:HB3	2.17	0.78
2:B:526:ARG:H	2:B:526:ARG:HD3	1.47	0.78
2:B:527:VAL:CG1	2:B:541:TYR:HA	2.11	0.78
2:B:1778:GLN:HB2	2:B:1779:PRO:HD3	1.63	0.78
1:D:1110:LEU:HD11	1:D:1188:GLN:H	1.48	0.78
2:H:1173:UNK:CB	2:H:1181:UNK:H	1.96	0.78
2:H:1884:TRP:HB2	2:H:1892:ASN:ND2	1.98	0.78
1:A:1341:PHE:O	1:A:1342:GLU:HB2	1.83	0.78
1:A:1364:GLU:O	1:A:1366:SER:N	2.15	0.78
1:A:1443:LEU:O	1:A:1443:LEU:HD23	1.83	0.78
1:A:1604:ILE:HD12	1:A:1630:THR:CB	2.13	0.78
2:B:526:ARG:HD3	2:B:526:ARG:N	1.98	0.78
2:B:1695:ASP:OD1	2:B:1705:SER:HB2	1.83	0.78
2:E:1695:ASP:OD1	2:E:1705:SER:HB2	1.83	0.78
1:A:1234:MET:O	1:A:1239:HIS:HD2	1.66	0.78
1:A:1626:TYR:O	1:A:1628:SER:N	2.16	0.78
1:D:1097:ILE:HG23	1:D:1098:LEU:HD22	1.65	0.78
1:D:1536:LEU:H	1:D:1536:LEU:HD12	1.47	0.78
2:E:1812:TYR:HD2	2:E:1812:TYR:H	1.27	0.78
2:H:41:LEU:HD22	2:H:46:GLU:CA	2.12	0.78
2:H:527:VAL:CG1	2:H:541:TYR:HA	2.10	0.78
1:A:1051:VAL:HA	1:A:1094:GLU:OE1	1.83	0.78
1:A:1099:GLU:HG2	1:A:1100:HIS:N	1.98	0.78
1:A:1141:ALA:HA	1:A:1144:PHE:CE1	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1581:THR:HG22	1:A:1591:TRP:CZ3	2.18	0.78
1:A:1606:PRO:HB2	1:A:1627:PRO:CA	2.02	0.78
2:B:390:ASN:HA	2:B:393:LEU:HB3	1.64	0.78
2:B:1888:ILE:HG23	2:B:1889:VAL:HG23	1.64	0.78
1:D:1022:THR:HG23	1:D:1398:VAL:CG2	2.13	0.78
1:D:1377:MET:HG3	1:D:1377:MET:O	1.83	0.78
2:E:305:PHE:CD2	2:E:442:ASP:HB3	2.18	0.78
2:E:440:ASN:OD1	2:E:477:GLU:HA	1.84	0.78
1:G:1519:ILE:CD1	1:G:1521:PRO:HD2	2.12	0.78
1:G:1639:VAL:HG22	1:G:1655:VAL:O	1.83	0.78
2:H:390:ASN:HA	2:H:393:LEU:HB3	1.65	0.78
1:A:1067:LEU:CG	1:A:1068:LYS:H	1.95	0.78
1:D:1035:THR:HG21	1:D:1053:MET:SD	2.23	0.78
2:E:1775:GLN:NE2	2:E:1836:MET:HG2	1.98	0.78
2:E:1784:MET:HE3	3:F:21:UNK:HA	1.64	0.78
1:G:899:LYS:C	1:G:901:MET:H	1.85	0.78
1:G:1211:ILE:HA	1:G:1214:PHE:CD2	2.19	0.78
1:G:1443:LEU:O	1:G:1443:LEU:HD23	1.83	0.78
2:H:526:ARG:HD3	2:H:526:ARG:H	1.48	0.78
1:A:830:HIS:H	1:A:830:HIS:CD2	1.98	0.78
2:B:339:LEU:HD12	2:B:340:SER:N	1.99	0.78
2:E:376:ASN:O	2:E:377:LEU:HG	1.84	0.78
2:B:1723:GLY:HA3	2:B:1733:TYR:CZ	2.19	0.78
2:B:1776:PHE:O	2:B:1779:PRO:HD2	1.82	0.78
1:D:681:THR:HB	1:D:771:PHE:H	1.49	0.78
1:D:1110:LEU:CD1	1:D:1188:GLN:H	1.97	0.78
1:D:1119:LYS:HG3	1:D:1121:MET:HB2	1.66	0.78
1:D:1234:MET:O	1:D:1239:HIS:HD2	1.66	0.78
1:G:1070:ARG:CG	1:G:1071:PRO:HD2	2.14	0.78
2:H:1821:VAL:HG23	2:H:1822:MET:N	1.98	0.78
1:A:678:VAL:HG22	1:A:767:ALA:HB3	1.65	0.78
1:A:791:ALA:HA	1:A:794:ILE:HG22	1.66	0.78
2:B:247:ALA:O	2:B:251:VAL:HG23	1.83	0.78
1:D:1625:LEU:HD22	1:D:1626:TYR:HB3	1.66	0.78
1:A:903:PHE:HA	1:A:906:LEU:HD23	1.64	0.78
1:A:1618:LEU:HD22	1:A:1623:TYR:OH	1.84	0.78
2:B:1041:UNK:O	2:B:1043:UNK:N	2.17	0.78
2:B:1740:THR:OG1	2:B:1751:ILE:HB	1.84	0.78
1:D:1153:ASP:OD1	1:D:1157:ILE:HG23	1.82	0.78
1:G:1448:ARG:HG2	1:G:1451:GLN:HG2	1.66	0.78
2:H:247:ALA:O	2:H:250:VAL:HB	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1672:GLN:HG3	2:B:1777:THR:HG23	1.65	0.78
1:D:797:THR:HG22	1:D:798:ASN:N	1.98	0.78
1:D:1129:GLU:OE1	1:D:1178:ALA:HB2	1.84	0.78
1:D:1211:ILE:HA	1:D:1214:PHE:CE2	2.19	0.78
1:D:1398:VAL:HG12	1:D:1673:TYR:HE1	1.49	0.78
1:D:1448:ARG:HA	1:D:1451:GLN:HB3	1.66	0.78
2:E:31:SER:O	2:E:34:GLN:HG2	1.85	0.78
2:E:956:UNK:C	2:E:958:UNK:H	1.97	0.78
1:G:1152:VAL:CB	1:G:1154:ILE:HG12	2.10	0.78
1:G:1364:GLU:O	1:G:1366:SER:N	2.16	0.78
1:G:1392:LEU:H	1:G:1392:LEU:HD22	1.47	0.78
1:G:1448:ARG:HA	1:G:1451:GLN:HB3	1.65	0.78
2:H:1663:UNK:O	3:I:17:UNK:HA	1.84	0.78
1:A:1313:ASP:O	1:A:1316:VAL:HG12	1.84	0.77
1:D:1070:ARG:CG	1:D:1071:PRO:HD2	2.14	0.77
1:D:1228:ILE:HG13	1:D:1228:ILE:O	1.81	0.77
1:D:1423:LYS:CB	1:D:1552:ASN:HD21	1.94	0.77
1:D:1580:LEU:HG	1:D:1580:LEU:O	1.84	0.77
1:D:1604:ILE:HD12	1:D:1630:THR:CB	2.14	0.77
1:G:1128:GLU:HB3	1:G:1177:LYS:HE3	1.66	0.77
1:A:1067:LEU:CD2	1:A:1068:LYS:N	2.48	0.77
1:D:903:PHE:HA	1:D:906:LEU:HD23	1.66	0.77
2:H:305:PHE:CD2	2:H:442:ASP:HB3	2.19	0.77
2:H:376:ASN:O	2:H:377:LEU:HG	1.82	0.77
1:A:1211:ILE:HA	1:A:1214:PHE:CE2	2.19	0.77
1:A:1369:ALA:HA	1:A:1547:LYS:CD	2.13	0.77
1:A:1519:ILE:CD1	1:A:1521:PRO:HD2	2.15	0.77
1:A:1639:VAL:HG23	1:A:1640:SER:H	1.49	0.77
2:B:1821:VAL:HG23	2:B:1822:MET:N	1.98	0.77
1:D:1035:THR:HG23	1:D:1045:PHE:HE1	1.48	0.77
1:D:1458:GLN:O	1:D:1462:TRP:HB3	1.84	0.77
2:E:213:LEU:HD13	2:E:236:ILE:HG12	1.65	0.77
2:E:390:ASN:HA	2:E:393:LEU:HB3	1.65	0.77
1:G:1141:ALA:HA	1:G:1144:PHE:CE1	2.19	0.77
1:G:1581:THR:HG22	1:G:1591:TRP:CZ3	2.20	0.77
1:A:1115:ASN:HD22	1:A:1115:ASN:N	1.82	0.77
1:A:1307:THR:CG2	1:A:1586:GLY:HA2	2.15	0.77
2:B:109:LEU:HD13	2:B:534:ASP:OD1	1.84	0.77
2:B:1884:TRP:HB2	2:B:1892:ASN:ND2	1.98	0.77
1:D:1254:VAL:HG22	1:D:1255:SER:N	1.98	0.77
1:D:1520:ALA:N	1:D:1521:PRO:HD3	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1626:TYR:O	1:D:1628:SER:N	2.17	0.77
2:E:247:ALA:O	2:E:250:VAL:HB	1.84	0.77
1:G:1099:GLU:HG2	1:G:1100:HIS:N	1.99	0.77
1:G:1606:PRO:HB2	1:G:1627:PRO:CA	2.01	0.77
2:B:35:GLU:HA	2:B:38:ASN:ND2	1.99	0.77
1:D:1423:LYS:HB2	1:D:1552:ASN:ND2	1.97	0.77
1:G:1190:PRO:CG	1:G:1378:GLU:O	2.27	0.77
1:G:1234:MET:O	1:G:1239:HIS:HD2	1.67	0.77
1:G:1408:ALA:HB1	1:G:1651:GLY:C	2.04	0.77
1:A:1110:LEU:HD11	1:A:1188:GLN:H	1.50	0.77
1:A:1208:VAL:O	1:A:1210:PRO:CD	2.32	0.77
1:A:1506:GLN:O	1:A:1510:ASN:HB2	1.84	0.77
2:B:1775:GLN:NE2	2:B:1836:MET:HG2	1.99	0.77
1:D:1168:LEU:HD13	1:D:1169:LYS:HB2	1.65	0.77
2:E:29:ILE:C	2:E:31:SER:H	1.87	0.77
2:E:1784:MET:CE	3:F:21:UNK:HA	2.14	0.77
2:E:1888:ILE:HG23	2:E:1889:VAL:HG23	1.66	0.77
2:H:29:ILE:C	2:H:31:SER:H	1.86	0.77
1:A:1290:LEU:HA	1:A:1701:LYS:HZ2	1.48	0.77
1:A:1454:THR:O	1:A:1457:ALA:HB3	1.84	0.77
2:B:376:ASN:O	2:B:377:LEU:HG	1.85	0.77
2:E:109:LEU:HD13	2:E:534:ASP:OD1	1.85	0.77
1:G:1077:ASP:OD2	1:G:1090:LYS:HE2	1.83	0.77
1:G:1377:MET:HG3	1:G:1377:MET:O	1.83	0.77
1:G:1487:LEU:O	1:G:1490:THR:HG22	1.84	0.77
1:G:1506:GLN:O	1:G:1510:ASN:HB2	1.83	0.77
1:G:1604:ILE:HD12	1:G:1630:THR:CB	2.15	0.77
2:H:1715:VAL:HB	2:H:1770:LEU:N	1.98	0.77
1:A:681:THR:HB	1:A:771:PHE:H	1.50	0.77
1:A:1168:LEU:HD13	1:A:1169:LYS:HB2	1.66	0.77
1:A:1458:GLN:O	1:A:1462:TRP:HB3	1.85	0.77
2:B:247:ALA:O	2:B:250:VAL:HB	1.85	0.77
2:B:440:ASN:OD1	2:B:477:GLU:HA	1.85	0.77
2:B:2001:UNK:O	2:B:2003:UNK:N	2.17	0.77
1:D:1101:SER:C	1:D:1103:ILE:H	1.84	0.77
1:D:1443:LEU:O	1:D:1443:LEU:HD23	1.84	0.77
1:D:1519:ILE:CD1	1:D:1521:PRO:HD2	2.13	0.77
2:E:1888:ILE:HA	2:E:1891:TYR:OH	1.85	0.77
1:G:797:THR:HG22	1:G:798:ASN:N	1.99	0.77
1:G:1067:LEU:CD2	1:G:1068:LYS:N	2.46	0.77
1:G:1110:LEU:CD1	1:G:1188:GLN:H	1.96	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1299:LYS:NZ	1:A:1323:LYS:NZ	2.33	0.77
1:D:1118:LYS:HE3	1:D:1120:GLU:OE1	1.85	0.77
1:D:1409:THR:H	1:D:1651:GLY:HA3	1.50	0.77
2:E:35:GLU:HA	2:E:38:ASN:ND2	1.98	0.77
1:G:1131:LEU:N	1:G:1173:LEU:HD22	2.00	0.77
1:G:1160:THR:HB	1:G:1166:LYS:HE3	1.67	0.77
1:G:1225:ALA:C	1:G:1227:GLY:H	1.86	0.77
1:G:1243:VAL:HG12	1:G:1325:ARG:H	1.48	0.77
1:G:1258:ARG:HG2	1:G:1258:ARG:HH11	1.50	0.77
2:H:1672:GLN:HG3	2:H:1777:THR:HG23	1.67	0.77
1:A:1254:VAL:HG13	1:A:1255:SER:N	1.99	0.77
1:D:1118:LYS:NZ	1:D:1337:GLU:HG3	2.00	0.77
1:D:1599:ILE:HD11	1:D:1639:VAL:HG12	1.66	0.77
1:G:1184:LEU:HD22	1:G:1341:PHE:HD2	1.48	0.77
1:G:1398:VAL:HG12	1:G:1673:TYR:HE1	1.48	0.77
2:H:35:GLU:HA	2:H:38:ASN:ND2	2.00	0.77
1:A:1398:VAL:HG12	1:A:1673:TYR:HE1	1.49	0.76
1:A:1444:ASN:N	1:A:1444:ASN:HD22	1.83	0.76
2:B:31:SER:O	2:B:34:GLN:HG2	1.84	0.76
1:D:678:VAL:HG22	1:D:767:ALA:HB3	1.66	0.76
1:D:1128:GLU:HB3	1:D:1177:LYS:HE3	1.67	0.76
1:D:1130:ASP:HB2	1:D:1174:TYR:H	1.49	0.76
2:H:109:LEU:HD13	2:H:534:ASP:OD1	1.85	0.76
2:H:1834:ARG:HG3	2:H:1834:ARG:HH11	1.50	0.76
2:B:234:ILE:HG13	2:B:238:CYS:SG	2.26	0.76
2:B:334:VAL:O	2:B:420:PHE:HD2	1.68	0.76
1:D:791:ALA:HA	1:D:794:ILE:HG22	1.67	0.76
1:D:1536:LEU:HB3	1:D:1638:ALA:HB3	1.68	0.76
1:G:884:ILE:HG21	1:G:943:LEU:HD13	1.68	0.76
1:G:1536:LEU:H	1:G:1536:LEU:HD12	1.50	0.76
2:H:339:LEU:HD12	2:H:340:SER:N	2.00	0.76
2:H:1885:LEU:H	3:I:2:UNK:CB	1.99	0.76
1:D:1031:GLY:O	1:D:1035:THR:HB	1.84	0.76
1:D:1067:LEU:CG	1:D:1068:LYS:H	1.95	0.76
1:D:1243:VAL:HG12	1:D:1325:ARG:H	1.50	0.76
1:D:1456:GLU:H	1:D:1459:ILE:HG12	1.49	0.76
2:E:1041:UNK:O	2:E:1043:UNK:N	2.18	0.76
1:G:1404:VAL:HA	1:G:1655:VAL:CG2	2.16	0.76
1:G:1625:LEU:HD22	1:G:1626:TYR:HB3	1.68	0.76
1:A:1258:ARG:HG2	1:A:1258:ARG:HH11	1.50	0.76
1:D:830:HIS:H	1:D:830:HIS:CD2	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1099:GLU:HG2	1:D:1100:HIS:N	1.99	0.76
1:D:1178:ALA:O	1:D:1179:LEU:HD22	1.83	0.76
1:D:1329:VAL:HG12	1:D:1385:GLN:H	1.50	0.76
1:G:1456:GLU:H	1:G:1459:ILE:HG12	1.50	0.76
1:G:1583:HIS:CE1	1:G:1585:LYS:H	2.04	0.76
2:H:2001:UNK:O	2:H:2003:UNK:N	2.18	0.76
1:A:1491:ARG:HD3	1:A:1744:TYR:O	1.85	0.76
1:A:1547:LYS:HA	1:A:1550:ASP:CB	2.11	0.76
2:B:1709:ILE:HG22	2:B:1771:LEU:HD13	1.67	0.76
2:E:334:VAL:O	2:E:420:PHE:HD2	1.69	0.76
2:H:437:ASP:HA	2:H:440:ASN:HD22	1.50	0.76
1:A:1119:LYS:HG3	1:A:1121:MET:HB2	1.66	0.76
2:B:956:UNK:C	2:B:958:UNK:H	1.99	0.76
2:B:1907:LEU:H	2:B:1907:LEU:HD23	1.50	0.76
1:D:1491:ARG:HD3	1:D:1744:TYR:O	1.86	0.76
2:E:247:ALA:O	2:E:251:VAL:HG23	1.85	0.76
2:E:2001:UNK:O	2:E:2003:UNK:N	2.18	0.76
1:G:681:THR:HB	1:G:771:PHE:H	1.48	0.76
1:G:1455:ARG:HH22	1:G:1458:GLN:HB2	1.50	0.76
2:H:1888:ILE:HA	2:H:1891:TYR:OH	1.85	0.76
1:A:1211:ILE:C	1:A:1213:LEU:H	1.89	0.76
1:A:1230:ASP:OD2	1:A:1232:TYR:HB2	1.86	0.76
1:A:1385:GLN:HE22	1:A:1593:MET:CG	1.96	0.76
2:B:213:LEU:HD13	2:B:236:ILE:HG12	1.67	0.76
1:D:1036:ARG:HE	1:D:1037:TRP:N	1.83	0.76
1:D:1448:ARG:HG2	1:D:1451:GLN:HG2	1.68	0.76
1:D:1506:GLN:O	1:D:1510:ASN:HB2	1.84	0.76
2:E:1869:GLU:HA	2:E:1872:GLN:HB3	1.67	0.76
1:G:680:ILE:HG23	1:G:769:ILE:CG2	2.15	0.76
2:H:60:LEU:HA	2:H:63:LYS:HB3	1.68	0.76
1:A:714:VAL:C	1:A:716:ASP:H	1.89	0.76
1:A:1035:THR:HG21	1:A:1053:MET:SD	2.25	0.76
1:A:1057:MET:SD	1:A:1106:ILE:HD11	2.26	0.76
1:A:1220:VAL:O	1:A:1224:ILE:HG22	1.86	0.76
1:A:1447:TYR:HE2	1:A:1450:ARG:HG3	1.50	0.76
1:D:1067:LEU:CD2	1:D:1068:LYS:N	2.48	0.76
1:D:1392:LEU:H	1:D:1392:LEU:HD22	1.48	0.76
1:G:1299:LYS:NZ	1:G:1323:LYS:NZ	2.33	0.76
1:G:1458:GLN:O	1:G:1462:TRP:HB3	1.86	0.76
1:A:1031:GLY:O	1:A:1035:THR:HB	1.85	0.76
1:A:1238:VAL:HA	1:A:1720:ALA:HB1	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1243:VAL:HG12	1:A:1325:ARG:H	1.49	0.76
1:A:1423:LYS:HB2	1:A:1552:ASN:ND2	1.98	0.76
1:D:678:VAL:O	1:D:703:VAL:HG22	1.85	0.76
1:D:1191:THR:HA	1:D:1193:TRP:CH2	2.21	0.76
1:D:1341:PHE:O	1:D:1342:GLU:HB2	1.82	0.76
1:D:1369:ALA:HA	1:D:1547:LYS:CD	2.15	0.76
1:D:1606:PRO:HB2	1:D:1627:PRO:CA	2.01	0.76
1:G:468:UNK:C	1:G:470:UNK:N	2.46	0.76
1:G:792:HIS:CE1	1:G:796:LEU:HD21	2.21	0.76
1:G:1118:LYS:NZ	1:G:1337:GLU:HG3	2.00	0.76
1:G:1131:LEU:HB2	1:G:1133:PRO:CD	2.15	0.76
1:G:1455:ARG:HG2	1:G:1504:ALA:HB2	1.66	0.76
1:A:1129:GLU:OE1	1:A:1178:ALA:HB2	1.86	0.76
1:A:1151:LYS:HE3	1:A:1175:ILE:HD13	1.67	0.76
1:D:884:ILE:HG21	1:D:943:LEU:HD13	1.68	0.76
1:D:1370:THR:H	1:D:1547:LYS:HD2	1.51	0.76
2:E:1834:ARG:HG3	2:E:1834:ARG:HH11	1.51	0.76
1:G:1230:ASP:OD2	1:G:1232:TYR:HB2	1.86	0.76
2:H:1883:GLY:HA2	2:H:1894:GLU:OE1	1.85	0.76
1:A:1254:VAL:HG22	1:A:1255:SER:N	2.01	0.75
1:D:680:ILE:HG23	1:D:769:ILE:CG2	2.16	0.75
1:D:1169:LYS:NZ	1:D:1170:GLY:O	2.18	0.75
2:E:1740:THR:OG1	2:E:1751:ILE:HB	1.86	0.75
1:G:678:VAL:O	1:G:703:VAL:HG22	1.85	0.75
1:G:1413:LYS:HB2	1:G:1425:ILE:HD12	1.66	0.75
2:H:31:SER:O	2:H:34:GLN:HG2	1.85	0.75
2:H:1863:ALA:HA	2:H:1866:PHE:CD1	2.21	0.75
1:A:1142:GLU:O	1:A:1145:LYS:N	2.20	0.75
1:A:1447:TYR:C	1:A:1449:LYS:H	1.89	0.75
1:D:1008:GLU:C	1:D:1010:GLU:H	1.89	0.75
1:D:1302:VAL:HG23	1:D:1303:GLY:H	1.50	0.75
1:D:1329:VAL:CG1	1:D:1385:GLN:H	1.99	0.75
1:D:1454:THR:O	1:D:1457:ALA:HB3	1.85	0.75
1:D:1583:HIS:CD2	1:D:1583:HIS:N	2.52	0.75
2:H:1723:GLY:HA3	2:H:1733:TYR:CZ	2.21	0.75
2:H:1924:ILE:HG22	2:H:1925:ILE:H	1.50	0.75
1:A:884:ILE:HG21	1:A:943:LEU:HD13	1.67	0.75
1:A:1036:ARG:HE	1:A:1037:TRP:N	1.84	0.75
2:B:91:PHE:O	2:B:96:LEU:HD21	1.86	0.75
2:B:1173:UNK:HA	2:B:1182:UNK:HA	1.69	0.75
1:D:1115:ASN:HD22	1:D:1115:ASN:N	1.84	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1131:LEU:HB2	1:D:1133:PRO:CD	2.16	0.75
1:D:1364:GLU:O	1:D:1366:SER:N	2.19	0.75
1:D:1451:GLN:HG3	1:D:1452:LEU:N	2.01	0.75
1:G:1228:ILE:O	1:G:1228:ILE:HG13	1.85	0.75
1:G:1254:VAL:HG22	1:G:1255:SER:N	1.99	0.75
1:G:1447:TYR:HE2	1:G:1450:ARG:HG3	1.51	0.75
2:H:441:LYS:HB3	2:H:445:LYS:HE3	1.66	0.75
2:H:1709:ILE:HG22	2:H:1771:LEU:HD13	1.69	0.75
2:H:1864:ALA:C	2:H:1866:PHE:N	2.40	0.75
1:D:1133:PRO:HD2	1:D:1173:LEU:CD1	2.16	0.75
1:D:1141:ALA:HA	1:D:1144:PHE:CE1	2.20	0.75
2:E:295:SER:HA	2:E:298:LYS:HE3	1.68	0.75
2:E:373:GLY:HA2	2:E:519:ASN:OD1	1.86	0.75
2:E:1672:GLN:HG3	2:E:1777:THR:HG23	1.66	0.75
1:G:1031:GLY:O	1:G:1035:THR:HB	1.86	0.75
1:G:1133:PRO:HD2	1:G:1173:LEU:CD1	2.16	0.75
1:G:1189:ILE:HD12	1:G:1377:MET:CE	2.16	0.75
1:G:1211:ILE:C	1:G:1213:LEU:H	1.89	0.75
1:G:1540:SER:HA	1:G:1575:VAL:CB	2.16	0.75
1:D:1433:HIS:CD2	1:D:1523:ARG:HE	2.05	0.75
2:E:1855:ILE:HG22	2:E:1951:UNK:HA	1.68	0.75
1:G:791:ALA:HA	1:G:794:ILE:HG22	1.69	0.75
1:G:1067:LEU:CD2	1:G:1073:THR:HA	2.16	0.75
1:G:1142:GLU:O	1:G:1145:LYS:N	2.20	0.75
1:G:1423:LYS:HB2	1:G:1552:ASN:ND2	1.99	0.75
2:H:440:ASN:OD1	2:H:477:GLU:HA	1.85	0.75
1:A:1131:LEU:HB2	1:A:1133:PRO:CD	2.15	0.75
1:A:1239:HIS:C	1:A:1241:SER:H	1.90	0.75
2:B:159:ILE:HB	2:B:503:ASP:OD1	1.87	0.75
2:B:1855:ILE:HG22	2:B:1951:UNK:HA	1.69	0.75
1:G:680:ILE:H	1:G:680:ILE:HD12	1.51	0.75
1:G:1373:ARG:HG2	1:G:1547:LYS:CD	2.07	0.75
1:G:1454:THR:O	1:G:1457:ALA:HB3	1.86	0.75
1:A:1133:PRO:HD2	1:A:1173:LEU:CD1	2.17	0.75
1:A:1398:VAL:HG22	1:A:1399:PRO:O	1.86	0.75
1:A:1409:THR:H	1:A:1651:GLY:HA3	1.52	0.75
1:A:1625:LEU:HD22	1:A:1626:TYR:HB3	1.67	0.75
1:D:1299:LYS:HZ1	1:D:1323:LYS:HZ3	1.32	0.75
2:E:996:UNK:C	2:E:998:UNK:N	2.46	0.75
1:G:1107:GLU:CG	1:G:1108:PRO:HD3	2.17	0.75
1:G:1290:LEU:HA	1:G:1701:LYS:HZ2	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1586:GLY:C	1:G:1588:ALA:H	1.89	0.75
1:G:1618:LEU:HD22	1:G:1623:TYR:OH	1.87	0.75
2:H:295:SER:HA	2:H:298:LYS:HE3	1.69	0.75
2:H:1041:UNK:O	2:H:1043:UNK:N	2.18	0.75
2:H:1869:GLU:HA	2:H:1872:GLN:HB3	1.68	0.75
1:A:1097:ILE:HG23	1:A:1098:LEU:HD22	1.68	0.75
1:A:1107:GLU:CB	1:A:1108:PRO:CD	2.63	0.75
1:A:1110:LEU:CD1	1:A:1188:GLN:H	1.99	0.75
1:A:1340:SER:O	1:A:1341:PHE:HB3	1.86	0.75
1:A:1362:PRO:HA	1:A:1365:MET:HE1	1.69	0.75
1:A:1586:GLY:C	1:A:1588:ALA:H	1.88	0.75
2:B:836:UNK:HA	2:B:1028:UNK:HA	1.67	0.75
2:B:1869:GLU:HA	2:B:1872:GLN:HB3	1.67	0.75
1:D:1107:GLU:CG	1:D:1108:PRO:HD3	2.16	0.75
1:D:1211:ILE:C	1:D:1213:LEU:H	1.90	0.75
1:D:1418:VAL:HA	1:D:1419:PRO:O	1.86	0.75
1:D:1455:ARG:HH22	1:D:1458:GLN:HB2	1.52	0.75
2:E:100:ASP:OD2	2:E:255:LEU:HD11	1.87	0.75
2:E:339:LEU:HD12	2:E:340:SER:N	2.02	0.75
1:G:1308:SER:HB2	1:G:1590:ALA:HB2	1.67	0.75
2:H:373:GLY:HA2	2:H:519:ASN:OD1	1.87	0.75
1:A:1077:ASP:OD2	1:A:1090:LYS:HE2	1.87	0.75
1:A:1106:ILE:O	1:A:1106:ILE:HG22	1.86	0.75
1:A:1455:ARG:HH22	1:A:1458:GLN:HB2	1.51	0.75
1:A:1520:ALA:N	1:A:1521:PRO:HD3	2.01	0.75
1:A:1536:LEU:HB3	1:A:1638:ALA:HB3	1.69	0.75
2:B:60:LEU:HA	2:B:63:LYS:HB3	1.67	0.75
2:B:184:VAL:HG22	2:B:188:ILE:HG12	1.68	0.75
2:B:1347:UNK:O	2:B:1349:UNK:N	2.19	0.75
1:D:1340:SER:O	1:D:1341:PHE:HB3	1.87	0.75
1:D:1444:ASN:HD22	1:D:1444:ASN:N	1.83	0.75
2:E:91:PHE:O	2:E:96:LEU:HD21	1.87	0.75
1:G:1036:ARG:HE	1:G:1037:TRP:N	1.85	0.75
1:G:1520:ALA:N	1:G:1521:PRO:HD3	2.00	0.75
2:H:91:PHE:O	2:H:96:LEU:HD21	1.85	0.75
2:H:170:PHE:HB2	2:H:231:LEU:HD11	1.69	0.75
2:H:1149:UNK:O	2:H:1151:UNK:N	2.20	0.75
1:A:1189:ILE:HD12	1:A:1377:MET:CE	2.16	0.74
1:A:1191:THR:HA	1:A:1193:TRP:CH2	2.22	0.74
2:B:29:ILE:C	2:B:31:SER:H	1.88	0.74
2:E:441:LYS:HB3	2:E:445:LYS:HE3	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1864:ALA:C	2:E:1866:PHE:N	2.40	0.74
1:G:1107:GLU:CB	1:G:1108:PRO:CD	2.65	0.74
1:G:1369:ALA:HA	1:G:1547:LYS:CD	2.17	0.74
2:H:956:UNK:C	2:H:958:UNK:H	2.00	0.74
1:A:1107:GLU:CD	1:A:1108:PRO:HD3	2.07	0.74
2:B:131:ILE:HD13	2:B:182:VAL:HG13	1.69	0.74
1:D:710:PHE:CD1	1:D:736:PRO:HB3	2.22	0.74
2:E:38:ASN:O	2:E:42:PRO:HD3	1.87	0.74
2:E:1723:GLY:HA3	2:E:1733:TYR:CZ	2.22	0.74
2:H:163:GLN:HB3	2:H:423:VAL:HG22	1.70	0.74
2:H:334:VAL:O	2:H:420:PHE:HD2	1.70	0.74
2:H:1939:HIS:CG	2:H:1940:LEU:N	2.55	0.74
1:A:632:UNK:CB	1:A:894:ARG:HH12	2.00	0.74
1:A:1451:GLN:HG3	1:A:1452:LEU:N	2.02	0.74
2:B:441:LYS:HB3	2:B:445:LYS:HE3	1.67	0.74
2:B:1888:ILE:HA	2:B:1891:TYR:OH	1.87	0.74
1:D:678:VAL:CG2	1:D:767:ALA:HB3	2.18	0.74
1:D:1307:THR:CG2	1:D:1586:GLY:HA2	2.16	0.74
1:G:678:VAL:HG22	1:G:767:ALA:HB3	1.70	0.74
1:G:1378:GLU:CB	1:G:1585:LYS:HD2	2.17	0.74
1:G:1418:VAL:HA	1:G:1419:PRO:O	1.87	0.74
1:A:1536:LEU:H	1:A:1536:LEU:HD12	1.51	0.74
2:B:215:ILE:HD13	2:B:240:LEU:HD11	1.69	0.74
2:B:221:ASN:HD22	2:B:221:ASN:N	1.83	0.74
1:D:1020:VAL:HG22	1:D:1403:ILE:HA	1.69	0.74
1:D:1436:VAL:O	1:D:1437:LYS:O	2.06	0.74
1:G:680:ILE:HD12	1:G:680:ILE:N	2.01	0.74
1:G:1155:PHE:O	1:G:1156:GLU:HB3	1.88	0.74
1:G:1307:THR:CG2	1:G:1586:GLY:HA2	2.17	0.74
2:H:1877:ARG:HB3	2:H:1929:LYS:NZ	2.02	0.74
2:B:100:ASP:OD2	2:B:255:LEU:HD11	1.88	0.74
2:B:443:LEU:HB3	2:B:449:SER:HB2	1.70	0.74
2:B:1751:ILE:HD13	2:B:1840:VAL:HG21	1.69	0.74
1:G:714:VAL:C	1:G:716:ASP:H	1.87	0.74
1:G:1035:THR:HG23	1:G:1045:PHE:CE1	2.22	0.74
1:G:1109:GLU:C	1:G:1111:PHE:H	1.91	0.74
1:G:1119:LYS:HG3	1:G:1121:MET:HB2	1.68	0.74
2:H:1907:LEU:HD23	2:H:1907:LEU:H	1.52	0.74
1:A:797:THR:HG22	1:A:798:ASN:N	2.01	0.74
1:A:1335:PHE:CE1	1:A:1340:SER:HB2	2.14	0.74
2:B:241:ILE:CG2	2:B:242:GLY:N	2.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:632:UNK:CB	1:D:894:ARG:HH12	2.01	0.74
1:D:1067:LEU:CD2	1:D:1073:THR:HA	2.14	0.74
1:D:1107:GLU:CB	1:D:1108:PRO:CD	2.65	0.74
1:D:1342:GLU:O	1:D:1346:MET:N	2.21	0.74
2:E:184:VAL:HG22	2:E:188:ILE:HG12	1.69	0.74
2:E:1149:UNK:O	2:E:1151:UNK:N	2.20	0.74
1:G:1191:THR:HA	1:G:1193:TRP:CH2	2.22	0.74
1:A:1308:SER:HB2	1:A:1590:ALA:HB2	1.69	0.74
2:B:373:GLY:HA2	2:B:519:ASN:OD1	1.88	0.74
2:B:437:ASP:HA	2:B:440:ASN:HD22	1.50	0.74
1:D:717:TYR:C	1:D:719:GLN:H	1.91	0.74
1:D:1586:GLY:C	1:D:1588:ALA:H	1.91	0.74
1:G:968:VAL:HG13	2:H:1513:UNK:CB	2.18	0.74
1:G:1451:GLN:HG3	1:G:1452:LEU:N	2.02	0.74
2:H:184:VAL:HG22	2:H:188:ILE:HG12	1.69	0.74
2:H:1810:GLY:O	2:H:1813:ALA:HB3	1.88	0.74
1:A:1540:SER:HA	1:A:1575:VAL:CB	2.16	0.74
1:D:714:VAL:C	1:D:716:ASP:H	1.88	0.74
1:D:1105:LEU:HD13	1:D:1111:PHE:HZ	1.53	0.74
2:E:437:ASP:HA	2:E:440:ASN:HD22	1.52	0.74
2:E:1709:ILE:HG22	2:E:1771:LEU:HD13	1.69	0.74
2:E:1907:LEU:HD23	2:E:1907:LEU:H	1.51	0.74
1:G:1057:MET:SD	1:G:1106:ILE:HD11	2.28	0.74
1:G:1126:ILE:HG22	1:G:1127:VAL:N	2.01	0.74
1:G:1226:SER:O	1:G:1228:ILE:HG23	1.86	0.74
1:G:1373:ARG:HD3	1:G:1547:LYS:HB3	1.70	0.74
1:G:1424:GLY:O	1:G:1426:LEU:N	2.19	0.74
1:A:1377:MET:O	1:A:1377:MET:HG3	1.87	0.74
1:A:1593:MET:O	1:A:1596:ALA:HB3	1.88	0.74
1:D:1426:LEU:CD2	1:D:1650:GLY:HA3	2.18	0.74
2:E:170:PHE:HB2	2:E:231:LEU:HD11	1.69	0.74
2:E:494:THR:HB	2:E:520:LYS:NZ	2.02	0.74
1:G:1022:THR:OG1	1:G:1388:MET:HG3	1.87	0.74
1:G:1129:GLU:OE1	1:G:1178:ALA:HB2	1.87	0.74
2:H:1720:HIS:C	2:H:1721:PHE:HD1	1.91	0.74
2:H:1888:ILE:HG23	2:H:1889:VAL:HG23	1.67	0.74
1:A:680:ILE:HG23	1:A:769:ILE:CG2	2.18	0.74
1:A:796:LEU:HG	1:A:797:THR:H	1.53	0.74
1:A:1342:GLU:O	1:A:1346:MET:N	2.21	0.74
1:A:1418:VAL:HA	1:A:1419:PRO:O	1.88	0.74
1:A:1433:HIS:CD2	1:A:1523:ARG:HE	2.05	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:40:ILE:C	2:B:41:LEU:HD23	2.08	0.74
2:B:1723:GLY:HA3	2:B:1733:TYR:CE1	2.23	0.74
1:D:574:UNK:HA	1:D:577:UNK:CB	2.17	0.74
1:D:792:HIS:CE1	1:D:796:LEU:HD21	2.23	0.74
1:D:1363:ALA:O	1:D:1364:GLU:O	2.05	0.74
1:D:1422:GLY:HA2	1:D:1425:ILE:HB	1.69	0.74
2:E:1731:GLU:O	2:E:1735:ALA:HB3	1.87	0.74
1:G:632:UNK:CB	1:G:894:ARG:HH12	2.01	0.74
1:G:1202:ASP:HA	1:G:1205:ILE:HD11	1.70	0.74
1:G:1409:THR:H	1:G:1651:GLY:HA3	1.50	0.74
2:H:1173:UNK:HA	2:H:1182:UNK:HA	1.68	0.74
2:H:1809:LEU:HD11	2:H:1831:VAL:HG13	1.70	0.74
2:E:215:ILE:HD13	2:E:240:LEU:HD11	1.70	0.73
2:E:924:UNK:C	2:E:926:UNK:N	2.49	0.73
1:G:680:ILE:HG23	1:G:769:ILE:HG23	1.70	0.73
2:H:241:ILE:CG2	2:H:242:GLY:N	2.51	0.73
2:H:494:THR:HB	2:H:520:LYS:NZ	2.03	0.73
1:A:1035:THR:HG23	1:A:1045:PHE:CE1	2.23	0.73
2:B:1770:LEU:C	2:B:1772:SER:H	1.92	0.73
2:B:1810:GLY:O	2:B:1813:ALA:HB3	1.88	0.73
1:D:749:ILE:HD12	1:D:806:VAL:HG22	1.68	0.73
1:D:1211:ILE:HA	1:D:1214:PHE:CD2	2.23	0.73
1:D:1230:ASP:OD2	1:D:1232:TYR:HB2	1.87	0.73
1:D:1447:TYR:C	1:D:1449:LYS:H	1.90	0.73
2:E:221:ASN:HD22	2:E:221:ASN:N	1.84	0.73
2:H:40:ILE:C	2:H:41:LEU:HD23	2.08	0.73
2:H:303:LEU:HA	2:H:306:ILE:HD12	1.70	0.73
2:H:1715:VAL:C	2:H:1718:THR:HG22	2.08	0.73
2:H:1770:LEU:C	2:H:1772:SER:H	1.91	0.73
1:A:1211:ILE:HA	1:A:1214:PHE:CD2	2.22	0.73
2:B:163:GLN:HB3	2:B:423:VAL:HG22	1.70	0.73
2:B:494:THR:HB	2:B:520:LYS:NZ	2.03	0.73
2:B:1809:LEU:HD11	2:B:1831:VAL:HG13	1.70	0.73
2:B:1878:VAL:HG23	2:B:1879:GLY:H	1.53	0.73
1:D:1424:GLY:O	1:D:1426:LEU:N	2.20	0.73
2:E:60:LEU:HA	2:E:63:LYS:HB3	1.69	0.73
2:E:131:ILE:HD13	2:E:182:VAL:HG13	1.69	0.73
2:E:209:PHE:CZ	2:E:235:PRO:HB2	2.23	0.73
2:E:286:THR:HG21	2:E:292:PHE:HD1	1.53	0.73
1:G:903:PHE:HA	1:G:906:LEU:HD23	1.68	0.73
1:G:1302:VAL:HG23	1:G:1303:GLY:H	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1370:THR:H	1:G:1547:LYS:HD2	1.51	0.73
1:G:1436:VAL:O	1:G:1437:LYS:O	2.06	0.73
1:G:1444:ASN:HD22	1:G:1444:ASN:N	1.86	0.73
2:H:836:UNK:HA	2:H:1028:UNK:HA	1.69	0.73
1:A:997:PRO:HG2	1:A:1002:LYS:HE2	1.69	0.73
1:A:1126:ILE:HG22	1:A:1127:VAL:N	2.03	0.73
1:A:1148:HIS:O	1:A:1150:ASP:N	2.21	0.73
2:B:43:GLU:HB2	2:B:44:PRO:CD	2.16	0.73
2:B:170:PHE:HB2	2:B:231:LEU:HD11	1.70	0.73
2:B:1731:GLU:O	2:B:1735:ALA:HB3	1.87	0.73
2:B:1796:GLY:O	2:B:1797:LEU:HD23	1.88	0.73
1:D:1220:VAL:O	1:D:1224:ILE:HG22	1.87	0.73
1:D:1226:SER:O	1:D:1228:ILE:HG23	1.89	0.73
1:D:1258:ARG:HG2	1:D:1258:ARG:HH11	1.52	0.73
2:E:40:ILE:C	2:E:41:LEU:HD23	2.08	0.73
2:E:1194:UNK:O	2:E:1200:UNK:HA	1.89	0.73
1:G:1067:LEU:HD13	1:G:1068:LYS:N	2.03	0.73
1:G:1239:HIS:C	1:G:1241:SER:H	1.92	0.73
1:G:1329:VAL:HG12	1:G:1385:GLN:H	1.53	0.73
1:G:1342:GLU:O	1:G:1346:MET:N	2.20	0.73
2:H:170:PHE:HD2	2:H:174:ARG:HH21	1.36	0.73
2:H:286:THR:HG21	2:H:292:PHE:HD1	1.53	0.73
1:A:749:ILE:HD12	1:A:806:VAL:HG22	1.71	0.73
1:A:1109:GLU:C	1:A:1111:PHE:H	1.89	0.73
1:A:1303:GLY:O	1:A:1307:THR:N	2.21	0.73
1:D:1409:THR:N	1:D:1651:GLY:HA3	2.03	0.73
1:D:1558:ASN:OD1	1:D:1620:GLN:HB3	1.86	0.73
1:G:1028:GLY:HA3	1:G:1591:TRP:CZ2	2.23	0.73
1:G:1238:VAL:HA	1:G:1720:ALA:HB1	1.69	0.73
1:A:678:VAL:O	1:A:703:VAL:HG22	1.88	0.73
1:A:1169:LYS:HG3	1:A:1170:GLY:N	2.02	0.73
2:B:443:LEU:HB3	2:B:449:SER:CB	2.19	0.73
1:D:1064:ASN:OD1	1:D:1069:GLY:HA3	1.89	0.73
1:D:1238:VAL:HA	1:D:1720:ALA:HB1	1.70	0.73
2:E:836:UNK:HA	2:E:1028:UNK:HA	1.70	0.73
2:E:1877:ARG:HB3	2:E:1929:LYS:NZ	2.03	0.73
1:G:749:ILE:HD12	1:G:806:VAL:HG22	1.70	0.73
1:G:1008:GLU:C	1:G:1010:GLU:H	1.88	0.73
1:G:1670:TYR:O	1:G:1673:TYR:HB3	1.88	0.73
2:H:69:SER:HA	2:H:80:PHE:HB3	1.70	0.73
2:H:443:LEU:HB3	2:H:449:SER:CB	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1670:TYR:O	1:A:1673:TYR:HB3	1.89	0.73
2:B:209:PHE:CZ	2:B:235:PRO:HB2	2.23	0.73
2:B:1536:UNK:O	2:B:1538:UNK:N	2.21	0.73
2:B:1742:VAL:HG22	2:B:1837:THR:HG23	1.71	0.73
2:B:1834:ARG:HH11	2:B:1834:ARG:HG3	1.52	0.73
2:B:1883:GLY:HA2	2:B:1894:GLU:OE1	1.87	0.73
1:D:796:LEU:HG	1:D:797:THR:H	1.53	0.73
1:G:869:ILE:HG21	1:G:901:MET:SD	2.29	0.73
1:G:1064:ASN:OD1	1:G:1069:GLY:HA3	1.89	0.73
1:G:1240:VAL:C	1:G:1242:GLU:H	1.92	0.73
1:G:1554:SER:HB3	1:G:1623:TYR:OH	1.87	0.73
2:H:371:VAL:HB	2:H:489:LYS:HA	1.70	0.73
2:H:1194:UNK:O	2:H:1200:UNK:HA	1.88	0.73
2:H:1751:ILE:HD13	2:H:1840:VAL:HG21	1.71	0.73
2:H:1878:VAL:HG23	2:H:1879:GLY:H	1.54	0.73
1:A:678:VAL:CG2	1:A:767:ALA:HB3	2.19	0.73
1:A:1635:GLY:O	1:A:1636:VAL:C	2.27	0.73
1:A:1707:THR:O	1:A:1709:GLU:N	2.22	0.73
2:B:38:ASN:O	2:B:42:PRO:HD3	1.87	0.73
2:B:1863:ALA:HA	2:B:1866:PHE:CD1	2.22	0.73
1:D:468:UNK:C	1:D:470:UNK:N	2.48	0.73
1:D:680:ILE:HD12	1:D:680:ILE:N	2.04	0.73
1:D:1259:GLY:HA2	1:D:1263:ASP:CB	2.17	0.73
1:D:1558:ASN:C	1:D:1560:MET:H	1.92	0.73
2:E:443:LEU:HB3	2:E:449:SER:HB2	1.71	0.73
1:G:1378:GLU:HB2	1:G:1585:LYS:HD2	1.71	0.73
1:G:1433:HIS:CD2	1:G:1523:ARG:HE	2.06	0.73
2:H:1854:MET:HB2	2:H:1893:VAL:O	1.89	0.73
1:A:644:UNK:C	1:A:646:UNK:H	2.02	0.73
1:A:1064:ASN:OD1	1:A:1069:GLY:HA3	1.88	0.73
1:A:1202:ASP:HA	1:A:1205:ILE:HD11	1.71	0.73
1:A:1441:PRO:O	1:A:1442:ASN:HB2	1.89	0.73
2:B:371:VAL:HB	2:B:489:LYS:HA	1.71	0.73
1:D:1441:PRO:O	1:D:1442:ASN:HB2	1.88	0.73
1:D:1447:TYR:HE2	1:D:1450:ARG:HG3	1.52	0.73
1:G:717:TYR:C	1:G:719:GLN:H	1.93	0.73
1:G:1109:GLU:O	1:G:1110:LEU:HB2	1.89	0.73
2:H:1880:LYS:HB3	2:H:1899:VAL:HG21	1.71	0.73
1:A:1243:VAL:HA	1:A:1324:ALA:CB	2.19	0.73
1:A:1351:ASN:ND2	1:A:1354:GLU:HB2	2.03	0.73
1:A:1370:THR:N	1:A:1547:LYS:HD2	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1401:TYR:O	1:A:1658:PRO:HB3	1.87	0.73
2:B:67:TYR:C	2:B:69:SER:N	2.42	0.73
2:B:1148:UNK:O	2:B:1149:UNK:O	2.06	0.73
2:B:1715:VAL:HB	2:B:1770:LEU:N	2.01	0.73
1:D:997:PRO:HG2	1:D:1002:LYS:HE2	1.70	0.73
1:D:1002:LYS:O	1:D:1006:PRO:HD2	1.89	0.73
2:E:633:UNK:C	2:E:635:UNK:H	2.01	0.73
2:E:1715:VAL:HB	2:E:1770:LEU:N	1.99	0.73
1:G:1103:ILE:CA	1:G:1106:ILE:HD12	2.17	0.73
1:G:1398:VAL:HG22	1:G:1399:PRO:C	2.07	0.73
1:G:1692:MET:HA	1:G:1697:LEU:HD11	1.70	0.73
1:G:1795:UNK:HA	1:G:1799:UNK:CB	2.18	0.73
2:H:38:ASN:O	2:H:42:PRO:HD3	1.88	0.73
2:H:1347:UNK:O	2:H:1349:UNK:N	2.21	0.73
1:A:710:PHE:CD1	1:A:736:PRO:HB3	2.24	0.72
1:A:1302:VAL:HG23	1:A:1303:GLY:H	1.52	0.72
1:A:1426:LEU:CD2	1:A:1650:GLY:HA3	2.19	0.72
1:A:1706:TYR:N	1:A:1706:TYR:CD1	2.56	0.72
1:A:1795:UNK:HA	1:A:1799:UNK:CB	2.19	0.72
2:B:1149:UNK:O	2:B:1151:UNK:N	2.22	0.72
2:B:1703:GLY:O	2:B:1721:PHE:CE2	2.42	0.72
1:D:644:UNK:C	1:D:646:UNK:H	2.02	0.72
1:D:1299:LYS:NZ	1:D:1323:LYS:HZ3	1.86	0.72
2:E:163:GLN:HB3	2:E:423:VAL:HG22	1.71	0.72
2:E:1751:ILE:HD13	2:E:1840:VAL:HG21	1.71	0.72
1:G:1211:ILE:C	1:G:1213:LEU:N	2.40	0.72
1:G:1303:GLY:O	1:G:1307:THR:N	2.22	0.72
2:H:1536:UNK:O	2:H:1538:UNK:N	2.21	0.72
2:H:1740:THR:OG1	2:H:1751:ILE:HB	1.87	0.72
1:A:1207:GLN:O	1:A:1209:ASP:N	2.19	0.72
2:B:1720:HIS:C	2:B:1721:PHE:HD1	1.91	0.72
1:D:547:UNK:C	1:D:549:UNK:N	2.50	0.72
1:D:1178:ALA:O	1:D:1179:LEU:HB3	1.88	0.72
1:D:1239:HIS:C	1:D:1241:SER:H	1.92	0.72
1:D:1243:VAL:HA	1:D:1324:ALA:CB	2.20	0.72
2:E:436:SER:O	2:E:439:ILE:HG12	1.89	0.72
2:E:1782:THR:OG1	2:E:1809:LEU:HD21	1.89	0.72
2:E:1939:HIS:CG	2:E:1940:LEU:N	2.58	0.72
1:G:796:LEU:HG	1:G:797:THR:H	1.53	0.72
1:G:1254:VAL:HA	1:G:1257:LEU:HB2	1.70	0.72
1:G:1430:ARG:HG2	1:G:1431:GLU:H	1.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1478:PRO:HB3	1:G:1481:ASP:HB2	1.71	0.72
1:G:1544:THR:OG1	1:G:1546:THR:HG22	1.89	0.72
2:H:168:ASP:HB3	2:H:171:GLU:CB	2.19	0.72
2:H:215:ILE:HD13	2:H:240:LEU:HD11	1.72	0.72
2:H:455:ILE:CD1	2:H:469:ARG:HB2	2.18	0.72
2:H:1148:UNK:O	2:H:1149:UNK:O	2.07	0.72
1:A:1403:ILE:CG2	1:A:1656:VAL:HG13	2.19	0.72
1:A:1409:THR:N	1:A:1651:GLY:HA3	2.04	0.72
1:A:1436:VAL:O	1:A:1437:LYS:O	2.07	0.72
2:B:159:ILE:HG23	2:B:271:THR:O	1.90	0.72
2:B:260:PRO:HG2	2:B:287:ASP:O	1.89	0.72
2:B:1268:UNK:C	2:B:1270:UNK:H	1.99	0.72
1:D:680:ILE:HD12	1:D:680:ILE:H	1.54	0.72
1:D:1232:TYR:OH	1:D:1704:ALA:HA	1.89	0.72
1:D:1351:ASN:ND2	1:D:1354:GLU:HB2	2.03	0.72
2:E:1268:UNK:C	2:E:1270:UNK:H	2.00	0.72
2:E:1347:UNK:O	2:E:1349:UNK:N	2.23	0.72
2:E:1809:LEU:HD11	2:E:1831:VAL:HG13	1.70	0.72
2:E:1863:ALA:HA	2:E:1866:PHE:CD1	2.23	0.72
1:G:1243:VAL:HA	1:G:1324:ALA:CB	2.18	0.72
1:G:1308:SER:O	1:G:1311:SER:HB3	1.89	0.72
1:G:1422:GLY:HA2	1:G:1425:ILE:HB	1.70	0.72
1:G:1441:PRO:O	1:G:1442:ASN:HB2	1.87	0.72
2:H:247:ALA:O	2:H:251:VAL:HG23	1.89	0.72
2:H:443:LEU:HB3	2:H:449:SER:HB2	1.70	0.72
2:H:1715:VAL:HG23	2:H:1770:LEU:HB2	1.71	0.72
1:A:1599:ILE:HD11	1:A:1639:VAL:HG12	1.72	0.72
1:A:1692:MET:HA	1:A:1697:LEU:HD11	1.71	0.72
1:D:1401:TYR:O	1:D:1658:PRO:HB3	1.89	0.72
1:D:1541:PHE:HE2	1:D:1554:SER:HG	1.36	0.72
1:D:1635:GLY:O	1:D:1636:VAL:C	2.27	0.72
1:D:1795:UNK:HA	1:D:1799:UNK:CB	2.20	0.72
2:E:1885:LEU:HD22	2:E:1891:TYR:HD2	1.55	0.72
1:G:1020:VAL:HG22	1:G:1403:ILE:HA	1.72	0.72
1:G:1115:ASN:HD22	1:G:1115:ASN:N	1.85	0.72
1:G:1409:THR:N	1:G:1651:GLY:HA3	2.04	0.72
2:H:100:ASP:OD2	2:H:255:LEU:HD11	1.88	0.72
1:A:1096:SER:C	1:A:1098:LEU:H	1.93	0.72
1:A:1398:VAL:HG22	1:A:1399:PRO:C	2.09	0.72
1:A:1411:THR:OG1	1:A:1412:ASP:N	2.22	0.72
1:A:1430:ARG:HG2	1:A:1431:GLU:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:286:THR:HG21	2:B:292:PHE:HD1	1.53	0.72
2:B:1821:VAL:HG23	2:B:1822:MET:HG3	1.70	0.72
2:B:1864:ALA:C	2:B:1866:PHE:N	2.42	0.72
1:D:680:ILE:HG23	1:D:769:ILE:HG23	1.70	0.72
1:D:688:ILE:O	1:D:692:VAL:HG23	1.89	0.72
1:D:775:PRO:O	1:D:776:GLU:HB2	1.89	0.72
1:D:1155:PHE:O	1:D:1156:GLU:HB3	1.89	0.72
1:G:710:PHE:O	1:G:711:SER:HB3	1.89	0.72
1:G:1148:HIS:O	1:G:1150:ASP:N	2.22	0.72
1:G:1238:VAL:CA	1:G:1720:ALA:HB1	2.20	0.72
1:G:1329:VAL:CG1	1:G:1385:GLN:H	2.02	0.72
1:G:1401:TYR:O	1:G:1658:PRO:HB3	1.90	0.72
1:G:1410:ALA:CB	1:G:1426:LEU:HB2	2.20	0.72
2:H:159:ILE:HG23	2:H:271:THR:O	1.89	0.72
1:A:1240:VAL:C	1:A:1242:GLU:H	1.92	0.72
1:A:1554:SER:HB3	1:A:1623:TYR:OH	1.90	0.72
1:D:904:ASN:HD22	1:D:904:ASN:N	1.87	0.72
1:D:1109:GLU:C	1:D:1111:PHE:H	1.91	0.72
1:D:1189:ILE:HD12	1:D:1377:MET:CE	2.19	0.72
1:D:1398:VAL:HG22	1:D:1399:PRO:C	2.10	0.72
1:D:1403:ILE:CG2	1:D:1656:VAL:HG13	2.20	0.72
2:E:159:ILE:HG23	2:E:271:THR:O	1.90	0.72
2:E:1173:UNK:HA	2:E:1182:UNK:HA	1.70	0.72
2:E:1536:UNK:O	2:E:1538:UNK:N	2.23	0.72
1:G:1652:GLN:NE2	1:G:1653:ALA:O	2.23	0.72
2:H:996:UNK:C	2:H:998:UNK:N	2.47	0.72
1:A:1605:ILE:HG12	1:A:1606:PRO:HA	1.72	0.72
2:B:241:ILE:HG23	2:B:242:GLY:N	2.05	0.72
2:B:295:SER:HA	2:B:298:LYS:HE3	1.70	0.72
1:D:674:LYS:HG2	1:D:675:ASP:OD2	1.90	0.72
1:D:757:LYS:C	1:D:758:ASN:HD22	1.93	0.72
1:D:1028:GLY:HA3	1:D:1591:TRP:CZ2	2.25	0.72
1:D:1077:ASP:OD2	1:D:1090:LYS:HE2	1.89	0.72
2:E:303:LEU:HA	2:E:306:ILE:HD12	1.72	0.72
2:E:1854:MET:HB2	2:E:1893:VAL:O	1.88	0.72
1:G:712:LYS:HG2	1:G:716:ASP:OD2	1.90	0.72
1:G:1232:TYR:HE1	1:G:1705:PRO:HD3	1.55	0.72
1:G:1426:LEU:CD2	1:G:1650:GLY:HA3	2.20	0.72
2:H:1731:GLU:O	2:H:1735:ALA:HB3	1.88	0.72
1:A:1232:TYR:OH	1:A:1704:ALA:HA	1.90	0.72
1:A:1580:LEU:HG	1:A:1580:LEU:O	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:318:SER:N	2:H:1307:UNK:CB	2.52	0.72
2:B:996:UNK:C	2:B:998:UNK:N	2.47	0.72
2:B:1880:LYS:HB3	2:B:1899:VAL:HG21	1.70	0.72
1:D:1593:MET:O	1:D:1596:ALA:HB3	1.90	0.72
1:G:710:PHE:CD1	1:G:736:PRO:HB3	2.24	0.72
1:G:1604:ILE:HG22	1:G:1605:ILE:N	2.02	0.72
2:H:1268:UNK:C	2:H:1270:UNK:H	2.02	0.72
2:H:1737:ILE:O	2:H:1738:PHE:HB3	1.90	0.72
1:A:547:UNK:C	1:A:549:UNK:N	2.49	0.72
1:A:792:HIS:CE1	1:A:796:LEU:HD21	2.24	0.72
1:A:1105:LEU:HD13	1:A:1111:PHE:HZ	1.53	0.72
1:A:1308:SER:O	1:A:1311:SER:HB3	1.90	0.72
1:A:1478:PRO:HB3	1:A:1481:ASP:HB2	1.71	0.72
1:A:1604:ILE:HG22	1:A:1605:ILE:N	2.02	0.72
1:A:1714:VAL:HG11	1:A:1731:LEU:CD1	2.20	0.72
2:B:69:SER:HA	2:B:80:PHE:HB3	1.72	0.72
2:B:309:ARG:HG3	2:B:439:ILE:HG22	1.72	0.72
2:E:241:ILE:CG2	2:E:242:GLY:N	2.53	0.72
1:G:757:LYS:C	1:G:758:ASN:HD22	1.93	0.72
1:G:1128:GLU:HA	1:G:1177:LYS:HA	1.72	0.72
1:G:1133:PRO:C	1:G:1134:PHE:CD1	2.63	0.72
2:H:131:ILE:HD13	2:H:182:VAL:HG13	1.70	0.72
2:H:221:ASN:HD22	2:H:221:ASN:N	1.83	0.72
1:A:1089:VAL:O	1:A:1093:TYR:HB2	1.90	0.72
1:A:1133:PRO:C	1:A:1134:PHE:CD1	2.63	0.72
2:B:87:CYS:O	2:B:90:GLU:HB3	1.90	0.72
2:B:1854:MET:HB2	2:B:1893:VAL:O	1.90	0.72
1:D:861:GLN:O	1:D:862:LEU:HD23	1.90	0.72
1:D:1308:SER:HB2	1:D:1590:ALA:HB2	1.70	0.72
1:D:1692:MET:HA	1:D:1697:LEU:HD11	1.71	0.72
1:G:997:PRO:HG2	1:G:1002:LYS:HE2	1.70	0.72
1:G:1178:ALA:O	1:G:1179:LEU:HB3	1.88	0.72
2:H:633:UNK:C	2:H:635:UNK:H	2.03	0.72
2:H:1855:ILE:HG22	2:H:1951:UNK:HA	1.69	0.72
1:A:468:UNK:C	1:A:470:UNK:N	2.46	0.71
1:A:680:ILE:N	1:A:680:ILE:HD12	2.05	0.71
1:A:1151:LYS:H	1:A:1151:LYS:HD2	1.55	0.71
2:B:478:ARG:C	2:B:480:VAL:H	1.93	0.71
2:B:529:VAL:O	2:B:542:GLY:HA2	1.90	0.71
2:B:1687:ALA:CB	2:B:1787:ALA:HB1	2.20	0.71
1:D:1022:THR:OG1	1:D:1388:MET:HG3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:67:TYR:C	2:E:69:SER:N	2.42	0.71
2:E:159:ILE:HB	2:E:503:ASP:OD1	1.89	0.71
2:E:443:LEU:HB3	2:E:449:SER:CB	2.19	0.71
2:E:1878:VAL:HG23	2:E:1879:GLY:H	1.53	0.71
1:G:644:UNK:C	1:G:646:UNK:H	2.02	0.71
1:G:1447:TYR:C	1:G:1449:LYS:H	1.90	0.71
1:G:1583:HIS:CG	1:G:1584:PRO:HA	2.25	0.71
2:B:924:UNK:O	2:B:926:UNK:N	2.22	0.71
1:D:1067:LEU:HD22	1:D:1068:LYS:H	1.55	0.71
1:D:1203:ASP:O	1:D:1206:SER:HB3	1.90	0.71
1:D:1478:PRO:HB3	1:D:1481:ASP:HB2	1.71	0.71
1:D:1603:GLY:C	1:D:1604:ILE:HD13	2.11	0.71
2:E:1742:VAL:HG22	2:E:1837:THR:HG23	1.72	0.71
1:G:574:UNK:HA	1:G:577:UNK:CB	2.20	0.71
2:H:436:SER:O	2:H:439:ILE:HG12	1.90	0.71
2:H:478:ARG:C	2:H:480:VAL:H	1.90	0.71
1:A:574:UNK:HA	1:A:577:UNK:CB	2.20	0.71
1:A:904:ASN:HD22	1:A:904:ASN:N	1.88	0.71
1:D:1089:VAL:O	1:D:1093:TYR:HB2	1.90	0.71
1:D:1104:ARG:O	1:D:1105:LEU:HG	1.91	0.71
1:D:1373:ARG:HD3	1:D:1547:LYS:HB3	1.71	0.71
2:E:29:ILE:O	2:E:34:GLN:HG3	1.91	0.71
2:E:471:LEU:HG	2:E:472:SER:N	2.04	0.71
2:E:1883:GLY:HA2	2:E:1894:GLU:OE1	1.90	0.71
1:G:1232:TYR:OH	1:G:1704:ALA:HA	1.90	0.71
1:G:1593:MET:O	1:G:1596:ALA:HB3	1.90	0.71
2:H:134:LYS:C	2:H:136:PRO:HD3	2.11	0.71
2:H:209:PHE:CZ	2:H:235:PRO:HB2	2.25	0.71
2:H:1723:GLY:HA3	2:H:1733:TYR:CE1	2.26	0.71
1:A:1178:ALA:C	1:A:1179:LEU:HD22	2.10	0.71
1:A:1410:ALA:CB	1:A:1426:LEU:HB2	2.20	0.71
1:A:1558:ASN:OD1	1:A:1620:GLN:HB3	1.89	0.71
2:B:1782:THR:OG1	2:B:1809:LEU:HD21	1.90	0.71
2:B:1874:VAL:HG22	2:B:1928:GLN:HE22	1.56	0.71
2:E:527:VAL:CG1	2:E:541:TYR:HA	2.13	0.71
2:E:1810:GLY:O	2:E:1813:ALA:HB3	1.90	0.71
2:E:1917:ILE:HG22	2:E:1918:LYS:H	1.54	0.71
1:G:1097:ILE:HG23	1:G:1098:LEU:HD22	1.70	0.71
1:G:1243:VAL:HG12	1:G:1324:ALA:CA	2.20	0.71
1:G:1394:LEU:HD11	1:G:1661:LEU:HD21	1.72	0.71
1:A:757:LYS:C	1:A:758:ASN:HD22	1.94	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1329:VAL:CG1	1:A:1385:GLN:H	2.03	0.71
1:A:1404:VAL:HA	1:A:1655:VAL:CG2	2.19	0.71
1:A:1519:ILE:HD11	1:A:1524:GLY:N	2.05	0.71
1:D:1035:THR:HG23	1:D:1045:PHE:CE1	2.25	0.71
1:D:1430:ARG:HG2	1:D:1431:GLU:H	1.55	0.71
1:D:1589:GLY:HA2	1:D:1592:MET:HE3	1.72	0.71
1:D:1652:GLN:NE2	1:D:1653:ALA:O	2.22	0.71
2:E:529:VAL:O	2:E:542:GLY:HA2	1.91	0.71
1:G:1067:LEU:CD2	1:G:1068:LYS:H	2.03	0.71
2:H:263:LEU:C	2:H:265:SER:N	2.42	0.71
2:H:309:ARG:HG3	2:H:439:ILE:HG22	1.72	0.71
2:H:504:PHE:HA	2:H:529:VAL:CG2	2.20	0.71
1:D:826:MET:HE1	1:D:847:GLU:HG3	1.72	0.71
1:D:1670:TYR:O	1:D:1673:TYR:HB3	1.90	0.71
2:E:309:ARG:HG3	2:E:439:ILE:HG22	1.72	0.71
2:E:504:PHE:HA	2:E:529:VAL:CG2	2.21	0.71
2:H:1821:VAL:HG23	2:H:1822:MET:HG3	1.73	0.71
1:A:710:PHE:O	1:A:711:SER:HB3	1.89	0.71
1:A:1008:GLU:C	1:A:1010:GLU:H	1.91	0.71
1:A:1036:ARG:HD3	1:A:1037:TRP:H	1.56	0.71
2:B:1917:ILE:HG22	2:B:1918:LYS:H	1.55	0.71
2:B:1939:HIS:CG	2:B:1940:LEU:N	2.58	0.71
1:D:803:MET:HE3	1:D:822:VAL:HG11	1.73	0.71
1:D:1097:ILE:O	1:D:1098:LEU:HD22	1.91	0.71
1:G:1203:ASP:O	1:G:1206:SER:HB3	1.90	0.71
1:G:1609:ARG:HE	1:G:1610:ASN:N	1.89	0.71
2:H:1326:UNK:C	2:H:1328:UNK:H	2.04	0.71
2:H:2036:UNK:HA	2:H:2039:UNK:CB	2.20	0.71
1:A:680:ILE:HG23	1:A:769:ILE:HG23	1.73	0.71
2:B:259:THR:CG2	2:B:288:SER:HA	2.21	0.71
1:D:1128:GLU:HA	1:D:1177:LYS:HA	1.73	0.71
1:D:1142:GLU:O	1:D:1145:LYS:N	2.22	0.71
1:D:1232:TYR:HE1	1:D:1705:PRO:HD3	1.54	0.71
1:D:1410:ALA:CB	1:D:1426:LEU:HB2	2.21	0.71
1:D:1604:ILE:HG22	1:D:1605:ILE:N	2.00	0.71
2:E:1703:GLY:O	2:E:1721:PHE:CE2	2.43	0.71
2:E:1878:VAL:HB	2:E:1898:TYR:HE1	1.56	0.71
1:G:1340:SER:O	1:G:1341:PHE:HB3	1.89	0.71
1:G:1707:THR:O	1:G:1709:GLU:N	2.24	0.71
2:H:29:ILE:O	2:H:34:GLN:HG3	1.91	0.71
2:H:1715:VAL:HG13	2:H:1716:ASN:N	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:680:ILE:HD12	1:A:680:ILE:H	1.55	0.71
1:A:1028:GLY:HA3	1:A:1591:TRP:CZ2	2.25	0.71
1:A:1133:PRO:HD2	1:A:1173:LEU:HD11	1.73	0.71
1:A:1424:GLY:O	1:A:1426:LEU:N	2.20	0.71
2:B:96:LEU:N	2:B:96:LEU:HD23	2.06	0.71
2:B:436:SER:O	2:B:439:ILE:HG12	1.90	0.71
1:D:717:TYR:O	1:D:721:ILE:HG12	1.91	0.71
1:D:722:TYR:O	1:D:724:LYS:N	2.24	0.71
1:D:1378:GLU:CB	1:D:1585:LYS:HD2	2.21	0.71
1:D:1426:LEU:HD12	1:D:1427:THR:HG23	1.73	0.71
2:E:1874:VAL:HG22	2:E:1928:GLN:HE22	1.55	0.71
1:G:904:ASN:HD22	1:G:904:ASN:N	1.87	0.71
1:G:1573:ILE:HA	1:G:1622:GLU:OE2	1.91	0.71
1:A:1211:ILE:C	1:A:1213:LEU:N	2.41	0.71
2:B:303:LEU:HA	2:B:306:ILE:HD12	1.72	0.71
2:B:372:ASN:O	2:B:376:ASN:HB2	1.91	0.71
1:D:798:ASN:O	1:D:802:MET:N	2.20	0.71
1:D:1202:ASP:HA	1:D:1205:ILE:HD11	1.73	0.71
2:E:371:VAL:HB	2:E:489:LYS:HA	1.71	0.71
2:E:478:ARG:C	2:E:480:VAL:H	1.92	0.71
2:E:1880:LYS:HB3	2:E:1899:VAL:HG21	1.72	0.71
1:G:907:GLY:C	1:G:909:LEU:N	2.45	0.71
1:G:1152:VAL:O	1:G:1155:PHE:N	2.23	0.71
1:G:1536:LEU:HB3	1:G:1638:ALA:HB3	1.72	0.71
2:H:259:THR:HG21	2:H:288:SER:HA	1.73	0.71
1:A:1067:LEU:CD2	1:A:1073:THR:HA	2.15	0.70
1:A:1101:SER:C	1:A:1103:ILE:N	2.45	0.70
1:A:1353:LEU:CA	1:A:1356:PHE:HB2	2.20	0.70
1:A:1426:LEU:HD12	1:A:1427:THR:HG23	1.73	0.70
2:B:134:LYS:C	2:B:136:PRO:HD3	2.10	0.70
2:B:633:UNK:C	2:B:635:UNK:H	2.02	0.70
2:B:1733:TYR:HH	2:B:1761:SER:HA	1.55	0.70
2:B:1878:VAL:HB	2:B:1898:TYR:HE1	1.56	0.70
1:D:1067:LEU:CD2	1:D:1068:LYS:H	2.04	0.70
1:D:1308:SER:O	1:D:1311:SER:HB3	1.90	0.70
1:G:722:TYR:O	1:G:724:LYS:N	2.23	0.70
1:G:1599:ILE:HD11	1:G:1639:VAL:HG12	1.72	0.70
2:H:49:ALA:HA	2:H:118:LYS:HZ2	1.56	0.70
2:H:1715:VAL:HG21	2:H:1766:SER:OG	1.90	0.70
1:A:1002:LYS:O	1:A:1006:PRO:HD2	1.91	0.70
1:A:1106:ILE:HA	1:A:1192:GLY:HA2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:846:LEU:O	1:D:849:LEU:HB2	1.91	0.70
1:D:999:LYS:HD2	1:D:1667:GLU:HG2	1.73	0.70
1:D:1096:SER:C	1:D:1098:LEU:H	1.94	0.70
1:D:1335:PHE:CE1	1:D:1340:SER:HB2	2.17	0.70
2:E:1148:UNK:O	2:E:1149:UNK:O	2.08	0.70
2:E:1859:PRO:HD2	2:E:1889:VAL:HA	1.72	0.70
1:G:769:ILE:HG13	1:G:771:PHE:CE1	2.27	0.70
1:G:1558:ASN:C	1:G:1560:MET:H	1.94	0.70
2:H:170:PHE:HB3	2:H:231:LEU:HD21	1.73	0.70
1:A:1142:GLU:O	1:A:1144:PHE:N	2.25	0.70
1:A:1422:GLY:HA2	1:A:1425:ILE:HB	1.71	0.70
1:A:1546:THR:HG21	1:A:1549:ASN:HB3	1.73	0.70
1:D:1142:GLU:O	1:D:1144:PHE:N	2.23	0.70
1:D:1243:VAL:HG12	1:D:1324:ALA:CA	2.21	0.70
2:E:367:GLU:HG2	2:E:368:ILE:N	2.04	0.70
2:E:1715:VAL:C	2:E:1718:THR:HG22	2.11	0.70
2:H:96:LEU:N	2:H:96:LEU:HD23	2.06	0.70
2:H:1703:GLY:O	2:H:1721:PHE:CE2	2.44	0.70
1:A:881:ASN:O	1:A:883:ILE:N	2.24	0.70
1:A:1020:VAL:HG22	1:A:1403:ILE:HA	1.73	0.70
1:A:1078:SER:OG	1:A:1085:ASP:HA	1.91	0.70
1:A:1110:LEU:HG	1:A:1188:GLN:HA	1.73	0.70
1:A:1394:LEU:HD11	1:A:1661:LEU:HD21	1.73	0.70
1:D:1394:LEU:HD11	1:D:1661:LEU:HD21	1.72	0.70
1:D:1636:VAL:HG13	1:D:1657:HIS:CG	2.25	0.70
2:E:23:PRO:HA	2:E:26:SER:HB3	1.74	0.70
2:E:134:LYS:C	2:E:136:PRO:HD3	2.11	0.70
2:E:1197:UNK:O	2:E:1199:UNK:N	2.25	0.70
2:E:1821:VAL:HG23	2:E:1822:MET:HG3	1.73	0.70
2:E:1989:UNK:O	2:E:1991:UNK:N	2.24	0.70
1:G:1104:ARG:O	1:G:1105:LEU:HG	1.92	0.70
1:G:1105:LEU:HD13	1:G:1111:PHE:HZ	1.55	0.70
1:A:1155:PHE:O	1:A:1156:GLU:HB3	1.89	0.70
1:A:1238:VAL:CA	1:A:1720:ALA:HB1	2.20	0.70
1:A:1329:VAL:HG12	1:A:1385:GLN:H	1.55	0.70
1:A:1573:ILE:HA	1:A:1622:GLU:OE2	1.92	0.70
1:A:1609:ARG:HE	1:A:1610:ASN:N	1.89	0.70
2:B:29:ILE:O	2:B:34:GLN:HG3	1.91	0.70
2:B:1194:UNK:O	2:B:1200:UNK:HA	1.90	0.70
1:D:1110:LEU:HG	1:D:1188:GLN:HA	1.74	0.70
1:D:1303:GLY:O	1:D:1307:THR:N	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1714:VAL:HG11	1:D:1731:LEU:CD1	2.21	0.70
2:E:1806:GLY:HA3	2:E:1811:GLU:HA	1.74	0.70
1:G:775:PRO:O	1:G:776:GLU:HB2	1.89	0.70
1:G:1110:LEU:CD1	1:G:1120:GLU:HG3	2.20	0.70
1:A:1067:LEU:HD22	1:A:1068:LYS:H	1.55	0.70
1:A:1128:GLU:HA	1:A:1177:LYS:HA	1.72	0.70
1:A:1558:ASN:C	1:A:1560:MET:H	1.95	0.70
1:A:1625:LEU:HD22	1:A:1625:LEU:C	2.10	0.70
2:B:23:PRO:HA	2:B:26:SER:HB3	1.74	0.70
2:B:504:PHE:HA	2:B:529:VAL:CG2	2.21	0.70
2:B:1737:ILE:O	2:B:1738:PHE:HB3	1.91	0.70
1:D:1126:ILE:HG22	1:D:1127:VAL:N	2.05	0.70
2:E:69:SER:HA	2:E:80:PHE:HB3	1.71	0.70
2:E:1731:GLU:C	2:E:1735:ALA:HB3	2.12	0.70
2:E:1770:LEU:C	2:E:1772:SER:H	1.93	0.70
1:G:1081:LYS:HD3	1:G:1081:LYS:N	2.06	0.70
1:G:1248:GLY:HA2	1:G:1330:GLY:CA	2.21	0.70
2:H:241:ILE:HG23	2:H:242:GLY:N	2.06	0.70
2:H:372:ASN:O	2:H:376:ASN:HB2	1.92	0.70
2:H:851:UNK:O	2:H:853:UNK:N	2.21	0.70
2:B:1789:PHE:CE1	2:B:1798:ILE:HG13	2.27	0.70
2:B:1856:ALA:HA	2:B:1891:TYR:O	1.92	0.70
1:D:710:PHE:O	1:D:711:SER:HB3	1.90	0.70
1:D:717:TYR:HD2	1:D:718:TYR:CE1	2.10	0.70
1:D:1133:PRO:C	1:D:1134:PHE:CD1	2.65	0.70
1:D:1378:GLU:HB2	1:D:1585:LYS:HD2	1.74	0.70
1:D:1520:ALA:N	1:D:1521:PRO:CD	2.55	0.70
2:E:924:UNK:O	2:E:926:UNK:N	2.23	0.70
2:E:1715:VAL:HG13	2:E:1716:ASN:N	2.07	0.70
2:E:1720:HIS:C	2:E:1721:PHE:HD1	1.94	0.70
1:G:1002:LYS:O	1:G:1006:PRO:HD2	1.90	0.70
1:G:1055:TRP:CH2	1:G:1198:TYR:HD1	2.10	0.70
1:G:1427:THR:C	1:G:1429:ALA:H	1.95	0.70
2:H:528:ILE:H	2:H:541:TYR:CB	2.04	0.70
2:H:1856:ALA:HA	2:H:1891:TYR:O	1.91	0.70
1:A:1363:ALA:O	1:A:1364:GLU:O	2.10	0.70
2:B:1687:ALA:HB1	2:B:1787:ALA:HB1	1.73	0.70
1:D:915:GLU:O	1:D:918:GLN:HB3	1.91	0.70
1:D:1352:THR:O	1:D:1353:LEU:HB3	1.90	0.70
1:D:1423:LYS:C	1:D:1425:ILE:N	2.43	0.70
1:D:1554:SER:HB3	1:D:1623:TYR:OH	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1573:ILE:HA	1:D:1622:GLU:OE2	1.92	0.70
2:E:96:LEU:N	2:E:96:LEU:HD23	2.07	0.70
1:G:1168:LEU:CD2	1:G:1169:LYS:H	2.05	0.70
1:G:1426:LEU:HD12	1:G:1427:THR:HG23	1.74	0.70
2:H:924:UNK:C	2:H:926:UNK:N	2.52	0.70
1:A:712:LYS:HG2	1:A:716:ASP:OD2	1.92	0.70
1:A:1150:ASP:HB3	1:A:1151:LYS:HD2	1.74	0.70
1:D:1168:LEU:HD13	1:D:1169:LYS:N	2.06	0.70
1:D:1425:ILE:O	1:D:1426:LEU:HD23	1.92	0.70
2:E:263:LEU:C	2:E:265:SER:N	2.42	0.70
2:E:375:LYS:HG3	2:E:376:ASN:H	1.57	0.70
1:G:688:ILE:O	1:G:692:VAL:HG23	1.91	0.70
1:G:1101:SER:C	1:G:1103:ILE:N	2.45	0.70
2:H:1878:VAL:HB	2:H:1898:TYR:HE1	1.56	0.70
1:A:769:ILE:HG13	1:A:771:PHE:CE1	2.25	0.70
1:A:999:LYS:HD2	1:A:1667:GLU:HG2	1.73	0.70
1:A:1203:ASP:O	1:A:1206:SER:HB3	1.92	0.70
1:A:1378:GLU:HA	1:A:1583:HIS:CA	2.22	0.70
1:A:1603:GLY:C	1:A:1604:ILE:HD13	2.11	0.70
1:A:1636:VAL:HG13	1:A:1657:HIS:CG	2.27	0.70
2:B:375:LYS:HG3	2:B:376:ASN:H	1.57	0.70
2:B:384:GLN:O	2:B:386:LEU:N	2.25	0.70
2:B:1877:ARG:HB3	2:B:1929:LYS:NZ	2.06	0.70
1:D:679:LEU:HD21	1:D:802:MET:HE1	1.73	0.70
1:D:1101:SER:C	1:D:1103:ILE:N	2.45	0.70
1:D:1707:THR:O	1:D:1709:GLU:N	2.24	0.70
2:E:1812:TYR:O	2:E:1816:ALA:HB3	1.91	0.70
1:G:1603:GLY:C	1:G:1604:ILE:HD13	2.12	0.70
2:H:18:His:CD2	2:H:86:LEU:HD22	2.27	0.70
2:H:446:ASN:O	2:H:448:VAL:N	2.25	0.70
2:H:529:VAL:O	2:H:542:GLY:HA2	1.92	0.70
2:B:49:ALA:HA	2:B:118:LYS:HZ2	1.57	0.69
2:B:455:ILE:CD1	2:B:469:ARG:HB2	2.20	0.69
1:D:488:UNK:O	1:D:489:UNK:O	2.10	0.69
1:D:1207:GLN:O	1:D:1209:ASP:N	2.21	0.69
1:D:1238:VAL:CA	1:D:1720:ALA:HB1	2.22	0.69
1:D:1353:LEU:CA	1:D:1356:PHE:HB2	2.21	0.69
1:D:1398:VAL:HG22	1:D:1399:PRO:O	1.92	0.69
1:D:1583:HIS:CG	1:D:1584:PRO:HA	2.26	0.69
2:E:439:ILE:HD11	2:E:480:VAL:HG13	1.73	0.69
2:E:1856:ALA:HA	2:E:1891:TYR:O	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1208:VAL:CA	1:G:1277:GLU:HG2	2.21	0.69
2:H:159:ILE:HB	2:H:503:ASP:OD1	1.91	0.69
2:H:409:PHE:O	2:H:410:SER:HB2	1.91	0.69
1:A:717:TYR:C	1:A:719:GLN:H	1.92	0.69
1:A:1067:LEU:HD13	1:A:1068:LYS:N	2.04	0.69
1:A:1352:THR:O	1:A:1353:LEU:HB3	1.90	0.69
1:A:1652:GLN:NE2	1:A:1653:ALA:O	2.24	0.69
2:B:1715:VAL:HG13	2:B:1716:ASN:N	2.07	0.69
1:D:1240:VAL:C	1:D:1242:GLU:H	1.92	0.69
1:D:1404:VAL:HA	1:D:1655:VAL:CG2	2.21	0.69
2:E:259:THR:CG2	2:E:288:SER:HA	2.22	0.69
2:H:1917:ILE:HG22	2:H:1918:LYS:H	1.56	0.69
1:A:1056:ILE:C	1:A:1058:GLY:H	1.95	0.69
1:A:1104:ARG:O	1:A:1105:LEU:HG	1.92	0.69
1:A:1259:GLY:HA2	1:A:1263:ASP:CB	2.21	0.69
1:A:1425:ILE:O	1:A:1426:LEU:HD23	1.93	0.69
2:B:895:UNK:O	2:B:899:UNK:N	2.25	0.69
2:B:1557:UNK:O	2:B:1559:UNK:N	2.25	0.69
1:D:889:GLU:O	1:D:893:VAL:HG22	1.93	0.69
1:D:1078:SER:OG	1:D:1085:ASP:HA	1.91	0.69
2:E:260:PRO:HG2	2:E:287:ASP:O	1.91	0.69
2:E:371:VAL:O	2:E:371:VAL:HG12	1.93	0.69
2:E:1723:GLY:HA3	2:E:1733:TYR:CE1	2.27	0.69
2:E:1796:GLY:O	2:E:1797:LEU:HD23	1.91	0.69
2:E:1884:TRP:H	2:E:1892:ASN:HB2	1.57	0.69
1:G:674:LYS:HG2	1:G:675:ASP:OD2	1.92	0.69
1:G:1067:LEU:HD22	1:G:1068:LYS:H	1.54	0.69
1:G:1318:THR:HG23	1:G:1323:LYS:HE2	1.74	0.69
1:G:1625:LEU:HD22	1:G:1625:LEU:C	2.12	0.69
2:H:1536:UNK:C	2:H:1538:UNK:N	2.55	0.69
2:H:1989:UNK:O	2:H:1991:UNK:N	2.25	0.69
1:A:679:LEU:HD21	1:A:802:MET:HE1	1.73	0.69
1:A:775:PRO:O	1:A:776:GLU:HB2	1.91	0.69
1:A:1022:THR:OG1	1:A:1388:MET:HG3	1.92	0.69
1:A:1081:LYS:HD3	1:A:1081:LYS:N	2.07	0.69
1:A:1243:VAL:HG12	1:A:1324:ALA:CA	2.23	0.69
2:B:1885:LEU:HD22	2:B:1891:TYR:HD2	1.57	0.69
1:D:1248:GLY:HA2	1:D:1330:GLY:CA	2.22	0.69
1:D:1706:TYR:N	1:D:1706:TYR:CD1	2.59	0.69
2:E:263:LEU:C	2:E:265:SER:H	1.94	0.69
2:E:851:UNK:O	2:E:853:UNK:N	2.20	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1687:ALA:CB	2:E:1787:ALA:HB1	2.21	0.69
2:E:1715:VAL:HG23	2:E:1770:LEU:HB2	1.73	0.69
1:G:1062:TYR:CG	1:G:1063:HIS:N	2.60	0.69
1:G:1096:SER:C	1:G:1098:LEU:H	1.94	0.69
1:G:1342:GLU:H	1:G:1345:ASN:HB2	1.57	0.69
2:H:367:GLU:HG2	2:H:368:ILE:N	2.05	0.69
2:H:1020:UNK:C	2:H:1022:UNK:H	2.05	0.69
2:H:1742:VAL:HG22	2:H:1837:THR:HG23	1.71	0.69
2:H:1796:GLY:O	2:H:1797:LEU:HD23	1.92	0.69
2:H:1859:PRO:HD2	2:H:1889:VAL:HA	1.74	0.69
1:A:1232:TYR:HE1	1:A:1705:PRO:HD3	1.57	0.69
2:B:170:PHE:HD2	2:B:174:ARG:HH21	1.39	0.69
2:B:259:THR:HG21	2:B:288:SER:HA	1.72	0.69
2:B:1197:UNK:O	2:B:1199:UNK:N	2.25	0.69
1:D:1014:ASP:HB2	1:D:1510:ASN:OD1	1.93	0.69
1:D:1144:PHE:CG	1:D:1145:LYS:N	2.60	0.69
1:D:1208:VAL:O	1:D:1210:PRO:CD	2.36	0.69
1:D:1211:ILE:C	1:D:1213:LEU:N	2.41	0.69
1:D:1215:VAL:HG11	1:D:1283:MET:HG3	1.75	0.69
1:D:1469:ALA:O	1:D:1472:LEU:HB3	1.92	0.69
1:D:1625:LEU:HD22	1:D:1625:LEU:C	2.13	0.69
2:E:168:ASP:HB3	2:E:171:GLU:CB	2.19	0.69
2:E:259:THR:HG21	2:E:288:SER:HA	1.74	0.69
2:E:384:GLN:O	2:E:386:LEU:N	2.26	0.69
2:E:1557:UNK:O	2:E:1559:UNK:N	2.25	0.69
2:E:2036:UNK:HA	2:E:2039:UNK:CB	2.22	0.69
1:G:717:TYR:O	1:G:721:ILE:HG12	1.92	0.69
1:G:861:GLN:O	1:G:862:LEU:HD23	1.91	0.69
2:H:471:LEU:HG	2:H:472:SER:N	2.04	0.69
2:H:1557:UNK:O	2:H:1559:UNK:N	2.26	0.69
2:H:1687:ALA:CB	2:H:1787:ALA:HB1	2.23	0.69
1:A:861:GLN:O	1:A:862:LEU:HD23	1.93	0.69
1:A:1056:ILE:O	1:A:1058:GLY:N	2.24	0.69
1:A:1318:THR:HG23	1:A:1323:LYS:HE2	1.74	0.69
1:A:1369:ALA:CA	1:A:1547:LYS:HD2	2.21	0.69
1:A:1378:GLU:CB	1:A:1585:LYS:HD2	2.22	0.69
2:B:43:GLU:CB	2:B:44:PRO:HD3	2.16	0.69
2:B:928:UNK:C	2:B:930:UNK:N	2.53	0.69
2:B:1536:UNK:C	2:B:1538:UNK:N	2.55	0.69
2:B:2036:UNK:HA	2:B:2039:UNK:CB	2.22	0.69
1:D:1148:HIS:O	1:D:1150:ASP:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1519:ILE:HD11	1:D:1524:GLY:N	2.08	0.69
1:G:678:VAL:CG2	1:G:767:ALA:HB3	2.21	0.69
1:G:864:VAL:HG12	1:G:865:CYS:N	2.07	0.69
1:G:1078:SER:OG	1:G:1085:ASP:HA	1.92	0.69
1:G:1450:ARG:HG3	1:G:1450:ARG:HH11	1.57	0.69
1:G:1636:VAL:HG13	1:G:1657:HIS:CG	2.28	0.69
1:G:1714:VAL:HG11	1:G:1731:LEU:CD1	2.21	0.69
2:H:65:LEU:O	2:H:69:SER:HB3	1.91	0.69
2:H:439:ILE:HA	2:H:442:ASP:HB2	1.75	0.69
1:A:846:LEU:O	1:A:849:LEU:HB2	1.93	0.69
1:A:1029:PRO:O	1:A:1106:ILE:HG23	1.91	0.69
1:A:1450:ARG:HG3	1:A:1450:ARG:HH11	1.57	0.69
2:B:166:THR:HG23	2:B:168:ASP:OD2	1.93	0.69
2:B:1764:PHE:N	2:B:1764:PHE:CD2	2.59	0.69
1:D:899:LYS:O	1:D:901:MET:N	2.26	0.69
1:D:1055:TRP:CH2	1:D:1198:TYR:HD1	2.10	0.69
1:D:1274:ILE:C	1:D:1276:GLN:N	2.44	0.69
2:E:170:PHE:HD2	2:E:174:ARG:HH21	1.40	0.69
2:E:455:ILE:CD1	2:E:469:ARG:HB2	2.20	0.69
2:E:528:ILE:H	2:E:541:TYR:CB	2.05	0.69
1:G:803:MET:HE3	1:G:822:VAL:HG11	1.74	0.69
1:G:873:ARG:HG3	1:G:874:GLY:H	1.58	0.69
1:G:1378:GLU:HA	1:G:1583:HIS:CA	2.23	0.69
2:H:1874:VAL:O	2:H:1878:VAL:HG22	1.93	0.69
1:A:385:UNK:O	1:A:388:UNK:CB	2.41	0.69
1:A:674:LYS:HG2	1:A:675:ASP:OD2	1.91	0.69
1:A:803:MET:HE3	1:A:822:VAL:HG11	1.74	0.69
1:A:1076:VAL:CG1	1:A:1087:LYS:HA	2.21	0.69
1:A:1152:VAL:O	1:A:1155:PHE:N	2.26	0.69
1:A:1178:ALA:O	1:A:1179:LEU:HB3	1.92	0.69
1:A:1215:VAL:HG11	1:A:1283:MET:HG3	1.75	0.69
2:B:263:LEU:C	2:B:265:SER:H	1.95	0.69
2:B:421:LEU:HB3	2:B:422:PRO:HD2	1.75	0.69
2:B:446:ASN:O	2:B:448:VAL:N	2.26	0.69
2:B:1867:SER:HA	2:B:1870:ALA:HB3	1.74	0.69
1:D:1036:ARG:HD3	1:D:1037:TRP:H	1.58	0.69
2:E:49:ALA:HA	2:E:118:LYS:HZ2	1.56	0.69
2:E:446:ASN:O	2:E:448:VAL:N	2.26	0.69
2:E:529:VAL:HG12	2:E:530:ALA:N	2.08	0.69
2:E:1687:ALA:HB1	2:E:1787:ALA:HB1	1.74	0.69
2:E:1715:VAL:HG21	2:E:1766:SER:OG	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:846:LEU:O	1:G:849:LEU:HB2	1.92	0.69
1:G:1142:GLU:O	1:G:1144:PHE:N	2.25	0.69
1:G:1169:LYS:HZ2	1:G:1170:GLY:H	1.41	0.69
1:G:1202:ASP:HA	1:G:1205:ILE:CD1	2.23	0.69
1:G:1352:THR:O	1:G:1353:LEU:HB3	1.93	0.69
1:G:1411:THR:OG1	1:G:1412:ASP:N	2.23	0.69
1:G:1635:GLY:O	1:G:1636:VAL:C	2.30	0.69
2:H:421:LEU:HB3	2:H:422:PRO:HD2	1.75	0.69
2:H:1883:GLY:N	2:H:1894:GLU:HG2	2.08	0.69
1:A:717:TYR:O	1:A:721:ILE:HG12	1.93	0.69
1:A:864:VAL:HG12	1:A:865:CYS:N	2.08	0.69
1:A:1248:GLY:HA2	1:A:1330:GLY:CA	2.22	0.69
1:A:1290:LEU:HA	1:A:1701:LYS:NZ	2.06	0.69
1:A:1373:ARG:HD3	1:A:1547:LYS:HB3	1.73	0.69
1:A:1427:THR:C	1:A:1429:ALA:H	1.97	0.69
1:A:1544:THR:OG1	1:A:1546:THR:HG22	1.93	0.69
2:B:263:LEU:C	2:B:265:SER:N	2.43	0.69
2:B:1715:VAL:HG23	2:B:1770:LEU:HB2	1.75	0.69
1:D:1062:TYR:CD2	1:D:1693:ILE:HB	2.28	0.69
1:D:1133:PRO:HD2	1:D:1173:LEU:HD11	1.74	0.69
1:D:1215:VAL:HG12	1:D:1332:TYR:CD1	2.28	0.69
1:D:1369:ALA:CA	1:D:1547:LYS:HD2	2.23	0.69
1:D:1378:GLU:HA	1:D:1583:HIS:CA	2.22	0.69
1:D:1605:ILE:HG12	1:D:1606:PRO:HA	1.75	0.69
2:E:1663:UNK:O	3:F:17:UNK:HA	1.91	0.69
1:G:798:ASN:O	1:G:802:MET:N	2.22	0.69
1:G:889:GLU:O	1:G:893:VAL:HG22	1.92	0.69
1:G:1029:PRO:O	1:G:1106:ILE:HG23	1.93	0.69
2:H:41:LEU:H	2:H:42:PRO:HD2	1.58	0.69
2:H:260:PRO:HG2	2:H:287:ASP:O	1.93	0.69
2:H:1197:UNK:O	2:H:1199:UNK:N	2.26	0.69
1:A:705:VAL:HG11	1:A:718:TYR:HE2	1.58	0.69
1:A:1119:LYS:HE3	1:A:1121:MET:CB	2.23	0.69
1:A:1119:LYS:C	1:A:1121:MET:H	1.95	0.69
1:A:1240:VAL:HG13	1:A:1242:GLU:CB	2.23	0.69
2:B:104:LEU:HD12	2:B:107:LYS:HB2	1.75	0.69
2:B:367:GLU:HG2	2:B:368:ILE:N	2.07	0.69
2:B:371:VAL:O	2:B:371:VAL:HG12	1.92	0.69
1:D:1279:PHE:O	1:D:1282:THR:HB	1.93	0.69
1:D:1450:ARG:HG3	1:D:1450:ARG:HH11	1.57	0.69
2:E:1867:SER:HA	2:E:1870:ALA:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1014:ASP:HB2	1:G:1510:ASN:OD1	1.93	0.69
1:G:1089:VAL:O	1:G:1093:TYR:HB2	1.93	0.69
1:G:1254:VAL:HG13	1:G:1255:SER:H	1.57	0.69
1:G:1605:ILE:HG12	1:G:1606:PRO:HA	1.74	0.69
1:G:1657:HIS:ND1	1:G:1658:PRO:HD2	2.07	0.69
2:H:384:GLN:O	2:H:386:LEU:N	2.26	0.69
2:H:895:UNK:O	2:H:899:UNK:N	2.26	0.69
1:A:493:UNK:C	1:A:495:UNK:N	2.52	0.68
1:A:1109:GLU:O	1:A:1110:LEU:HB2	1.92	0.68
1:A:1115:ASN:ND2	1:A:1115:ASN:N	2.41	0.68
2:B:528:ILE:H	2:B:541:TYR:CB	2.05	0.68
2:B:959:UNK:C	2:B:961:UNK:N	2.55	0.68
2:B:1355:UNK:O	2:B:1407:UNK:HA	1.93	0.68
2:B:1812:TYR:O	2:B:1816:ALA:HB3	1.93	0.68
2:B:1859:PRO:HD2	2:B:1889:VAL:HA	1.73	0.68
1:D:1275:LEU:O	1:D:1275:LEU:HD22	1.93	0.68
1:D:1318:THR:HG23	1:D:1323:LYS:HE2	1.74	0.68
2:E:421:LEU:HB3	2:E:422:PRO:HD2	1.74	0.68
2:E:895:UNK:O	2:E:899:UNK:N	2.26	0.68
1:G:418:UNK:O	1:G:421:UNK:N	2.26	0.68
1:G:652:UNK:C	1:G:654:UNK:N	2.54	0.68
1:G:999:LYS:HD2	1:G:1667:GLU:HG2	1.74	0.68
1:G:1240:VAL:HG13	1:G:1242:GLU:CB	2.23	0.68
1:G:1274:ILE:C	1:G:1276:GLN:N	2.45	0.68
1:G:1519:ILE:HD11	1:G:1524:GLY:N	2.08	0.68
2:H:1731:GLU:C	2:H:1735:ALA:HB3	2.14	0.68
2:H:1782:THR:OG1	2:H:1809:LEU:HD21	1.93	0.68
2:H:1806:GLY:HA3	2:H:1811:GLU:HA	1.74	0.68
2:H:1812:TYR:O	2:H:1816:ALA:HB3	1.93	0.68
1:A:858:TRP:CE3	1:A:862:LEU:HB2	2.28	0.68
1:A:1368:PRO:HA	1:A:1545:SER:HA	1.75	0.68
2:B:1731:GLU:C	2:B:1735:ALA:HB3	2.13	0.68
1:D:1110:LEU:CD1	1:D:1120:GLU:HG3	2.20	0.68
1:D:1119:LYS:C	1:D:1121:MET:H	1.95	0.68
1:D:1152:VAL:O	1:D:1155:PHE:N	2.26	0.68
2:E:65:LEU:O	2:E:69:SER:HB3	1.93	0.68
2:E:1678:MET:HE2	2:E:1678:MET:HA	1.76	0.68
1:G:1133:PRO:HD2	1:G:1173:LEU:HD11	1.75	0.68
1:G:1279:PHE:O	1:G:1282:THR:HB	1.92	0.68
1:G:1376:PHE:O	1:G:1377:MET:HB3	1.93	0.68
1:G:1704:ALA:HB1	1:G:1705:PRO:CD	2.20	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1741:LYS:HE2	1:G:1741:LYS:HA	1.75	0.68
1:A:688:ILE:O	1:A:692:VAL:HG23	1.93	0.68
1:A:866:GLY:O	1:A:867:ALA:HB2	1.93	0.68
1:A:873:ARG:HG3	1:A:874:GLY:H	1.57	0.68
1:A:889:GLU:HA	1:A:893:VAL:HA	1.76	0.68
1:A:915:GLU:O	1:A:918:GLN:HB3	1.93	0.68
2:B:1724:GLU:HG2	2:B:1726:GLY:N	2.07	0.68
1:D:418:UNK:O	1:D:421:UNK:N	2.26	0.68
1:D:504:UNK:CB	1:D:633:UNK:HA	2.24	0.68
1:D:1085:ASP:O	1:D:1087:LYS:N	2.27	0.68
1:D:1427:THR:C	1:D:1429:ALA:H	1.96	0.68
1:G:493:UNK:C	1:G:495:UNK:N	2.53	0.68
1:G:1062:TYR:CD2	1:G:1693:ILE:HB	2.29	0.68
1:G:1110:LEU:HG	1:G:1188:GLN:HA	1.74	0.68
1:G:1363:ALA:O	1:G:1364:GLU:O	2.11	0.68
1:G:1373:ARG:CG	1:G:1547:LYS:HB3	2.24	0.68
1:G:1583:HIS:CG	1:G:1585:LYS:H	2.10	0.68
2:H:439:ILE:HD11	2:H:480:VAL:HG13	1.75	0.68
2:H:597:UNK:HA	2:H:600:UNK:CB	2.23	0.68
2:H:616:UNK:O	2:H:618:UNK:N	2.21	0.68
2:H:1812:TYR:CD2	2:H:1812:TYR:N	2.61	0.68
1:A:889:GLU:O	1:A:893:VAL:HG22	1.94	0.68
2:B:168:ASP:HB3	2:B:171:GLU:CB	2.19	0.68
2:B:1715:VAL:C	2:B:1718:THR:HG22	2.12	0.68
1:D:1111:PHE:O	1:D:1112:ASN:HB2	1.92	0.68
1:D:1461:ASP:O	1:D:1463:VAL:N	2.27	0.68
1:D:1546:THR:HG21	1:D:1549:ASN:HB3	1.74	0.68
2:E:372:ASN:O	2:E:376:ASN:HB2	1.92	0.68
2:E:1266:UNK:C	2:E:1268:UNK:N	2.56	0.68
2:E:1737:ILE:O	2:E:1738:PHE:HB3	1.91	0.68
2:E:1789:PHE:CE1	2:E:1798:ILE:HG13	2.29	0.68
1:G:652:UNK:O	1:G:654:UNK:N	2.26	0.68
1:G:1036:ARG:HD3	1:G:1037:TRP:H	1.57	0.68
1:G:1290:LEU:HA	1:G:1701:LYS:NZ	2.09	0.68
1:G:1706:TYR:N	1:G:1706:TYR:CD1	2.56	0.68
2:H:87:CYS:O	2:H:90:GLU:HB3	1.93	0.68
2:H:375:LYS:HG3	2:H:376:ASN:H	1.57	0.68
2:H:1687:ALA:HB1	2:H:1787:ALA:HB1	1.76	0.68
2:H:1884:TRP:H	2:H:1892:ASN:HB2	1.57	0.68
1:A:722:TYR:O	1:A:724:LYS:N	2.26	0.68
1:A:1208:VAL:CA	1:A:1277:GLU:HG2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1254:VAL:HA	1:A:1257:LEU:HB2	1.74	0.68
1:A:1376:PHE:O	1:A:1377:MET:HB3	1.92	0.68
1:A:1657:HIS:ND1	1:A:1658:PRO:HD2	2.09	0.68
1:A:1738:ILE:O	1:A:1739:GLN:HB2	1.93	0.68
2:B:483:ILE:HG22	2:B:484:ILE:H	1.58	0.68
2:B:529:VAL:HG12	2:B:530:ALA:N	2.08	0.68
2:B:1192:UNK:O	2:B:1202:UNK:HA	1.93	0.68
1:D:1370:THR:N	1:D:1547:LYS:HD2	2.07	0.68
2:E:43:GLU:CB	2:E:44:PRO:HD3	2.18	0.68
2:E:324:LEU:O	2:E:328:LEU:HB2	1.94	0.68
2:E:1673:GLU:H	2:E:1676:MET:HE1	1.59	0.68
1:G:1208:VAL:O	1:G:1210:PRO:CD	2.36	0.68
2:H:371:VAL:O	2:H:371:VAL:HG12	1.94	0.68
2:H:1764:PHE:N	2:H:1764:PHE:CD2	2.61	0.68
1:A:418:UNK:O	1:A:421:UNK:N	2.26	0.68
2:B:1715:VAL:HG21	2:B:1766:SER:OG	1.93	0.68
2:B:1806:GLY:HA3	2:B:1811:GLU:HA	1.75	0.68
1:D:380:UNK:O	1:D:381:UNK:C	2.42	0.68
1:D:1609:ARG:HE	1:D:1610:ASN:N	1.92	0.68
1:G:1106:ILE:HA	1:G:1192:GLY:HA2	1.76	0.68
1:G:1353:LEU:CA	1:G:1356:PHE:HB2	2.22	0.68
1:G:1423:LYS:C	1:G:1425:ILE:N	2.44	0.68
2:H:67:TYR:C	2:H:69:SER:N	2.43	0.68
1:A:1169:LYS:HZ2	1:A:1170:GLY:H	1.41	0.68
1:A:1197:THR:HA	1:A:1200:ILE:HG22	1.75	0.68
1:A:1215:VAL:HG12	1:A:1332:TYR:CD1	2.29	0.68
1:A:1486:LEU:O	1:A:1490:THR:HB	1.94	0.68
2:B:246:LEU:O	2:B:250:VAL:HG23	1.94	0.68
2:B:439:ILE:HD11	2:B:480:VAL:HG13	1.74	0.68
2:B:677:UNK:O	2:B:679:UNK:N	2.26	0.68
2:B:882:UNK:O	2:B:883:UNK:C	2.42	0.68
2:B:1884:TRP:H	2:B:1892:ASN:HB2	1.59	0.68
1:D:1342:GLU:H	1:D:1345:ASN:HB2	1.57	0.68
1:D:1782:UNK:C	1:D:1784:UNK:H	2.07	0.68
1:G:1056:ILE:C	1:G:1058:GLY:H	1.96	0.68
1:G:1370:THR:N	1:G:1547:LYS:HD2	2.08	0.68
1:G:1376:PHE:HD1	1:G:1376:PHE:H	1.42	0.68
2:H:1867:SER:HA	2:H:1870:ALA:HB3	1.75	0.68
2:H:1885:LEU:HD22	2:H:1891:TYR:HD2	1.56	0.68
1:A:1062:TYR:CD2	1:A:1693:ILE:HB	2.28	0.68
1:A:1082:GLU:N	1:A:1083:PRO:CD	2.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1373:ARG:CG	1:A:1547:LYS:HB3	2.23	0.68
1:D:1062:TYR:CG	1:D:1063:HIS:N	2.62	0.68
1:D:1208:VAL:CA	1:D:1277:GLU:HG2	2.22	0.68
1:D:1240:VAL:HG13	1:D:1242:GLU:CB	2.24	0.68
1:D:1531:LEU:O	1:D:1532:THR:C	2.32	0.68
2:E:241:ILE:HG23	2:E:242:GLY:N	2.08	0.68
2:E:246:LEU:HD13	2:E:296:VAL:HG13	1.76	0.68
2:E:286:THR:CG2	2:E:292:PHE:HA	2.24	0.68
2:E:368:ILE:HD11	2:E:377:LEU:HD22	1.75	0.68
1:G:547:UNK:C	1:G:549:UNK:N	2.48	0.68
1:G:1013:LEU:HD23	1:G:1013:LEU:C	2.15	0.68
1:G:1589:GLY:HA2	1:G:1592:MET:CE	2.23	0.68
2:H:483:ILE:HG22	2:H:484:ILE:H	1.57	0.68
1:A:504:UNK:CB	1:A:633:UNK:HA	2.24	0.68
1:A:944:ARG:O	1:A:948:VAL:HG23	1.94	0.68
1:A:1274:ILE:C	1:A:1276:GLN:N	2.44	0.68
1:A:1583:HIS:CG	1:A:1584:PRO:HA	2.29	0.68
1:D:881:ASN:O	1:D:883:ILE:N	2.27	0.68
1:D:1081:LYS:HD3	1:D:1081:LYS:N	2.08	0.68
2:E:104:LEU:HD12	2:E:107:LYS:HB2	1.76	0.68
2:E:408:PRO:HB2	2:E:412:ARG:HD2	1.76	0.68
1:G:858:TRP:CE3	1:G:862:LEU:HB2	2.28	0.68
1:G:1193:TRP:O	1:G:1194:ASN:HB2	1.93	0.68
1:G:1486:LEU:O	1:G:1490:THR:HB	1.93	0.68
2:H:23:PRO:HA	2:H:26:SER:HB3	1.75	0.68
2:H:1605:UNK:O	2:H:1607:UNK:N	2.25	0.68
2:H:1779:PRO:O	2:H:1783:LEU:HB2	1.94	0.68
1:A:412:UNK:O	1:A:414:UNK:N	2.27	0.68
1:A:694:GLN:HB3	1:A:725:TYR:CD2	2.29	0.68
1:A:1461:ASP:O	1:A:1463:VAL:N	2.26	0.68
1:A:1536:LEU:HA	1:A:1638:ALA:HB3	1.76	0.68
1:D:1009:LEU:H	1:D:1009:LEU:HD12	1.58	0.68
1:D:1013:LEU:HD23	1:D:1013:LEU:C	2.14	0.68
1:D:1029:PRO:O	1:D:1106:ILE:HG23	1.94	0.68
1:D:1067:LEU:HD13	1:D:1068:LYS:N	2.05	0.68
1:D:1103:ILE:CA	1:D:1106:ILE:HD12	2.21	0.68
1:D:1106:ILE:HA	1:D:1192:GLY:HA2	1.74	0.68
1:D:1107:GLU:CD	1:D:1108:PRO:HD3	2.15	0.68
1:D:1520:ALA:H	1:D:1521:PRO:CD	2.06	0.68
2:E:75:SER:C	2:E:77:VAL:H	1.98	0.68
2:E:87:CYS:O	2:E:90:GLU:HB3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:170:PHE:HB3	2:E:231:LEU:HD21	1.74	0.68
2:E:466:SER:C	2:E:468:LEU:H	1.97	0.68
2:E:483:ILE:HG22	2:E:484:ILE:H	1.58	0.68
2:E:882:UNK:O	2:E:883:UNK:C	2.41	0.68
2:E:1718:THR:HG23	2:E:1765:ARG:HA	1.76	0.68
1:G:889:GLU:HA	1:G:893:VAL:HA	1.76	0.68
1:G:915:GLU:O	1:G:918:GLN:HB3	1.94	0.68
1:G:1189:ILE:HG22	1:G:1190:PRO:N	2.08	0.68
1:G:1369:ALA:HA	1:G:1547:LYS:HG3	1.76	0.68
1:G:1531:LEU:O	1:G:1532:THR:C	2.32	0.68
2:H:517:HIS:CG	2:H:526:ARG:HE	2.12	0.68
2:H:882:UNK:O	2:H:883:UNK:C	2.41	0.68
1:A:907:GLY:C	1:A:909:LEU:N	2.47	0.67
2:B:65:LEU:O	2:B:69:SER:HB3	1.93	0.67
1:D:710:PHE:CE1	1:D:736:PRO:HD3	2.24	0.67
1:D:1042:PHE:CD1	1:D:1042:PHE:N	2.62	0.67
1:D:1482:GLN:O	1:D:1486:LEU:HB2	1.94	0.67
1:D:1583:HIS:CG	1:D:1585:LYS:H	2.12	0.67
1:D:1605:ILE:HG13	1:D:1628:SER:HB3	1.74	0.67
1:G:944:ARG:O	1:G:948:VAL:HG23	1.94	0.67
1:G:1119:LYS:C	1:G:1121:MET:H	1.96	0.67
1:G:1168:LEU:HD13	1:G:1169:LYS:N	2.09	0.67
1:G:1226:SER:HB3	1:G:1386:ILE:HD11	1.75	0.67
1:G:1351:ASN:ND2	1:G:1354:GLU:HB2	2.03	0.67
1:G:1419:PRO:HD3	1:G:1646:PHE:HD1	1.59	0.67
1:G:1461:ASP:O	1:G:1463:VAL:N	2.27	0.67
2:H:324:LEU:O	2:H:328:LEU:HB2	1.94	0.67
2:H:488:VAL:HG12	2:H:490:TRP:H	1.59	0.67
2:H:1724:GLU:HG2	2:H:1726:GLY:N	2.08	0.67
1:A:869:ILE:HG21	1:A:901:MET:SD	2.33	0.67
1:A:1085:ASP:O	1:A:1087:LYS:N	2.28	0.67
1:A:1394:LEU:HD23	1:A:1673:TYR:CE1	2.30	0.67
1:A:1426:LEU:HD22	1:A:1650:GLY:HA3	1.76	0.67
1:A:1531:LEU:O	1:A:1532:THR:C	2.32	0.67
1:A:1782:UNK:C	1:A:1784:UNK:H	2.08	0.67
2:B:85:ASN:ND2	2:B:134:LYS:HB2	2.09	0.67
2:B:170:PHE:HB3	2:B:231:LEU:HD21	1.76	0.67
2:B:368:ILE:HD11	2:B:377:LEU:HD22	1.75	0.67
1:D:652:UNK:C	1:D:654:UNK:N	2.55	0.67
1:D:803:MET:HB3	1:D:862:LEU:CD1	2.25	0.67
1:D:1021:VAL:HA	1:D:1387:ILE:HG22	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1423:LYS:C	1:D:1425:ILE:H	1.97	0.67
2:E:1584:UNK:C	2:E:1586:UNK:N	2.53	0.67
1:G:679:LEU:HD21	1:G:802:MET:HE1	1.76	0.67
1:G:710:PHE:CE1	1:G:736:PRO:HD3	2.26	0.67
1:G:905:LEU:H	1:G:905:LEU:CD2	2.06	0.67
1:G:1368:PRO:HA	1:G:1545:SER:HA	1.76	0.67
1:G:1469:ALA:O	1:G:1472:LEU:HB3	1.94	0.67
2:H:466:SER:O	2:H:468:LEU:N	2.27	0.67
2:H:924:UNK:O	2:H:926:UNK:N	2.27	0.67
2:H:959:UNK:C	2:H:961:UNK:N	2.57	0.67
2:H:1789:PHE:CE1	2:H:1798:ILE:HG13	2.30	0.67
1:A:488:UNK:O	1:A:489:UNK:O	2.11	0.67
1:A:1389:GLN:HB3	1:A:1392:LEU:CD2	2.24	0.67
1:D:994:GLU:OE1	1:D:994:GLU:N	2.27	0.67
1:D:1540:SER:HA	1:D:1575:VAL:CB	2.17	0.67
2:E:189:LYS:O	2:E:192:ALA:HB3	1.94	0.67
2:E:466:SER:O	2:E:468:LEU:N	2.28	0.67
2:E:1326:UNK:C	2:E:1328:UNK:H	2.06	0.67
2:E:1703:GLY:O	2:E:1704:PHE:HB3	1.95	0.67
2:E:1764:PHE:N	2:E:1764:PHE:CD2	2.59	0.67
2:E:1845:ASP:OD1	2:E:1847:LEU:HB3	1.95	0.67
1:G:881:ASN:O	1:G:883:ILE:N	2.27	0.67
1:G:1079:LYS:HD2	1:G:1098:LEU:HD22	1.76	0.67
1:G:1240:VAL:O	1:G:1240:VAL:HG22	1.95	0.67
2:H:43:GLU:CB	2:H:44:PRO:HD3	2.17	0.67
2:H:263:LEU:C	2:H:265:SER:H	1.95	0.67
2:H:368:ILE:HD11	2:H:377:LEU:HD22	1.75	0.67
2:H:466:SER:C	2:H:468:LEU:H	1.97	0.67
2:H:1678:MET:HE2	2:H:1678:MET:HA	1.75	0.67
1:A:1067:LEU:CD2	1:A:1068:LYS:H	2.05	0.67
1:A:1139:GLU:O	1:A:1165:VAL:HG21	1.94	0.67
1:A:1469:ALA:O	1:A:1472:LEU:HB3	1.95	0.67
2:B:924:UNK:C	2:B:926:UNK:N	2.49	0.67
2:B:1386:UNK:HA	2:B:1413:UNK:HA	1.76	0.67
1:D:712:LYS:HG2	1:D:716:ASP:OD2	1.93	0.67
1:D:869:ILE:HG21	1:D:901:MET:SD	2.34	0.67
2:E:928:UNK:C	2:E:930:UNK:N	2.55	0.67
1:G:1299:LYS:CE	1:G:1323:LYS:HZ1	2.08	0.67
1:G:1389:GLN:HB3	1:G:1392:LEU:CD2	2.23	0.67
2:H:259:THR:CG2	2:H:288:SER:HA	2.23	0.67
2:H:1009:UNK:C	2:H:1011:UNK:H	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:189:LYS:O	2:B:192:ALA:HB3	1.93	0.67
2:B:324:LEU:O	2:B:328:LEU:HB2	1.94	0.67
2:B:517:HIS:CG	2:B:526:ARG:HE	2.12	0.67
2:B:1989:UNK:O	2:B:1991:UNK:N	2.27	0.67
1:D:1216:LEU:O	1:D:1219:VAL:HG12	1.95	0.67
1:D:1254:VAL:HG13	1:D:1255:SER:H	1.58	0.67
1:D:1290:LEU:HA	1:D:1701:LYS:NZ	2.08	0.67
1:D:1486:LEU:O	1:D:1490:THR:HB	1.95	0.67
1:D:1536:LEU:HA	1:D:1638:ALA:HB3	1.76	0.67
1:D:1704:ALA:HB1	1:D:1705:PRO:CD	2.24	0.67
2:E:597:UNK:HA	2:E:600:UNK:CB	2.25	0.67
1:G:1111:PHE:O	1:G:1112:ASN:HB2	1.94	0.67
1:G:1406:MET:HB3	1:G:1654:ILE:H	1.58	0.67
2:H:813:UNK:O	2:H:815:UNK:N	2.28	0.67
1:A:1063:HIS:CD2	1:A:1065:GLY:HA2	2.29	0.67
1:A:1605:ILE:HG13	1:A:1628:SER:HB3	1.75	0.67
1:A:1741:LYS:HE2	1:A:1741:LYS:HA	1.77	0.67
2:B:670:UNK:HA	2:B:694:UNK:CB	2.25	0.67
2:B:1266:UNK:O	2:B:1268:UNK:N	2.26	0.67
2:B:1584:UNK:C	2:B:1586:UNK:N	2.53	0.67
2:B:1884:TRP:O	2:B:1892:ASN:HB2	1.95	0.67
1:D:145:UNK:CB	1:D:260:UNK:HA	2.24	0.67
1:D:873:ARG:HG3	1:D:874:GLY:H	1.58	0.67
1:D:1109:GLU:O	1:D:1110:LEU:HB2	1.95	0.67
2:E:1884:TRP:O	2:E:1892:ASN:HB2	1.95	0.67
1:G:1076:VAL:CG1	1:G:1087:LYS:HA	2.23	0.67
1:G:1085:ASP:O	1:G:1087:LYS:N	2.27	0.67
1:G:1403:ILE:CG2	1:G:1656:VAL:HG13	2.19	0.67
1:G:1426:LEU:HD22	1:G:1650:GLY:HA3	1.76	0.67
2:H:338:MET:HG3	2:H:380:SER:HB2	1.77	0.67
2:H:345:THR:HG22	2:H:346:GLN:O	1.95	0.67
2:H:1874:VAL:HG22	2:H:1928:GLN:HE22	1.58	0.67
1:A:747:ALA:HA	1:A:750:GLU:HB3	1.77	0.67
1:A:1055:TRP:CH2	1:A:1198:TYR:HD1	2.13	0.67
2:B:471:LEU:HG	2:B:472:SER:N	2.06	0.67
2:B:1020:UNK:C	2:B:1022:UNK:H	2.06	0.67
2:B:1320:UNK:C	2:B:1322:UNK:H	2.08	0.67
2:B:1883:GLY:N	2:B:1894:GLU:HG2	2.09	0.67
1:D:858:TRP:CE3	1:D:862:LEU:HB2	2.29	0.67
1:D:1618:LEU:HD13	1:D:1623:TYR:CE2	2.30	0.67
1:D:1657:HIS:ND1	1:D:1658:PRO:HD2	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:409:PHE:O	2:E:410:SER:HB2	1.93	0.67
2:E:677:UNK:O	2:E:679:UNK:N	2.27	0.67
1:G:1082:GLU:N	1:G:1083:PRO:CD	2.58	0.67
1:G:1089:VAL:O	1:G:1091:ALA:N	2.28	0.67
1:G:1099:GLU:O	1:G:1102:GLY:N	2.21	0.67
1:G:1148:HIS:C	1:G:1150:ASP:H	1.98	0.67
1:G:1580:LEU:O	1:G:1580:LEU:CG	2.43	0.67
2:H:75:SER:C	2:H:77:VAL:H	1.98	0.67
2:H:1320:UNK:C	2:H:1322:UNK:H	2.07	0.67
1:A:803:MET:HB3	1:A:862:LEU:CD1	2.24	0.67
1:A:1129:GLU:O	1:A:1175:ILE:O	2.13	0.67
1:A:1406:MET:HB3	1:A:1654:ILE:H	1.58	0.67
1:A:1706:TYR:HE2	1:A:1715:TYR:CZ	2.13	0.67
2:B:41:LEU:H	2:B:42:PRO:HD2	1.58	0.67
1:D:864:VAL:HG12	1:D:865:CYS:N	2.09	0.67
1:D:1076:VAL:CG1	1:D:1087:LYS:HA	2.23	0.67
1:D:1119:LYS:HG3	1:D:1122:ILE:H	1.59	0.67
1:D:1376:PHE:O	1:D:1377:MET:HB3	1.95	0.67
2:E:246:LEU:O	2:E:250:VAL:HG23	1.95	0.67
2:E:488:VAL:HG12	2:E:490:TRP:H	1.60	0.67
1:G:803:MET:HB3	1:G:862:LEU:CD1	2.25	0.67
1:G:1259:GLY:HA2	1:G:1263:ASP:CB	2.19	0.67
1:G:1425:ILE:O	1:G:1426:LEU:HD23	1.95	0.67
2:H:43:GLU:HB2	2:H:44:PRO:CD	2.17	0.67
2:H:1670:GLY:HA2	2:H:1672:GLN:HE22	1.59	0.67
2:H:1884:TRP:O	2:H:1892:ASN:HB2	1.95	0.67
1:A:1021:VAL:HA	1:A:1387:ILE:HG22	1.76	0.67
1:A:1342:GLU:H	1:A:1345:ASN:HB2	1.59	0.67
2:B:409:PHE:O	2:B:410:SER:HB2	1.93	0.67
2:B:466:SER:C	2:B:468:LEU:H	1.98	0.67
2:B:567:UNK:HA	2:B:572:UNK:O	1.95	0.67
1:D:1056:ILE:C	1:D:1058:GLY:H	1.96	0.67
1:D:1202:ASP:HA	1:D:1205:ILE:CD1	2.25	0.67
1:D:1501:LEU:O	1:D:1504:ALA:HB3	1.95	0.67
2:E:1692:ASN:O	2:E:1696:ASN:HB2	1.95	0.67
1:G:488:UNK:O	1:G:489:UNK:O	2.12	0.67
1:G:797:THR:O	1:G:800:LEU:HB2	1.95	0.67
1:G:1119:LYS:HE3	1:G:1121:MET:CB	2.24	0.67
1:G:1165:VAL:HG23	1:G:1166:LYS:H	1.59	0.67
1:G:1178:ALA:C	1:G:1179:LEU:HD22	2.15	0.67
2:H:298:LYS:O	2:H:302:VAL:HG23	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:408:PRO:HB2	2:H:412:ARG:HD2	1.76	0.67
1:A:717:TYR:HD2	1:A:718:TYR:CE1	2.13	0.67
1:A:1148:HIS:C	1:A:1150:ASP:H	1.99	0.67
1:A:1332:TYR:H	1:A:1587:ALA:CB	2.04	0.67
1:A:1586:GLY:O	1:A:1588:ALA:N	2.28	0.67
2:B:851:UNK:O	2:B:853:UNK:N	2.23	0.67
2:B:1692:ASN:O	2:B:1696:ASN:HB2	1.95	0.67
2:B:1733:TYR:HE1	2:B:1760:THR:HG23	1.60	0.67
1:D:864:VAL:HG12	1:D:865:CYS:H	1.60	0.67
1:D:1577:GLN:HE22	1:D:1591:TRP:C	1.98	0.67
2:E:439:ILE:HA	2:E:442:ASP:HB2	1.76	0.67
1:G:705:VAL:HG11	1:G:718:TYR:HE2	1.60	0.67
1:G:1037:TRP:CD2	1:G:1598:GLN:HG2	2.30	0.67
1:G:1039:MET:HA	1:G:1039:MET:HE3	1.77	0.67
1:G:1207:GLN:O	1:G:1209:ASP:N	2.22	0.67
1:G:1605:ILE:HG13	1:G:1628:SER:HB3	1.77	0.67
2:H:1845:ASP:OD1	2:H:1847:LEU:HB3	1.94	0.67
1:A:1009:LEU:H	1:A:1009:LEU:HD12	1.60	0.66
1:A:1062:TYR:CG	1:A:1063:HIS:N	2.62	0.66
1:A:1264:ARG:C	1:A:1266:LYS:N	2.47	0.66
1:A:1369:ALA:O	1:A:1370:THR:HG23	1.95	0.66
1:A:1640:SER:HB2	1:A:1654:ILE:HB	1.77	0.66
1:A:1673:TYR:O	1:A:1675:ALA:N	2.28	0.66
2:B:18:His:CD2	2:B:86:LEU:HD22	2.30	0.66
2:B:390:ASN:HA	2:B:393:LEU:HD23	1.77	0.66
2:B:1845:ASP:OD1	2:B:1847:LEU:HB3	1.95	0.66
2:B:1874:VAL:O	2:B:1878:VAL:HG22	1.95	0.66
1:D:866:GLY:O	1:D:867:ALA:HB2	1.94	0.66
1:D:1406:MET:HB3	1:D:1654:ILE:H	1.58	0.66
1:D:1529:TYR:O	1:D:1530:GLY:C	2.33	0.66
1:D:1578:LYS:HE3	1:D:1584:PRO:HB3	1.77	0.66
2:E:390:ASN:HA	2:E:393:LEU:HD23	1.77	0.66
2:E:881:UNK:O	2:E:883:UNK:N	2.28	0.66
2:E:1009:UNK:C	2:E:1011:UNK:H	2.08	0.66
2:E:1266:UNK:O	2:E:1268:UNK:N	2.28	0.66
2:E:1772:SER:HA	2:E:1777:THR:OG1	1.95	0.66
1:G:717:TYR:HD2	1:G:718:TYR:CE1	2.13	0.66
1:G:1369:ALA:O	1:G:1370:THR:HG23	1.96	0.66
1:G:1706:TYR:HE2	1:G:1715:TYR:CZ	2.14	0.66
2:H:18:HIS:O	2:H:22:VAL:HG23	1.95	0.66
2:H:104:LEU:HD12	2:H:107:LYS:HB2	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:366:VAL:CG2	2:H:381:GLY:HA3	2.23	0.66
2:H:1192:UNK:O	2:H:1202:UNK:HA	1.94	0.66
1:A:1079:LYS:HD2	1:A:1098:LEU:HD22	1.77	0.66
1:A:1203:ASP:N	1:A:1205:ILE:HG12	2.08	0.66
1:A:1254:VAL:HG13	1:A:1255:SER:H	1.59	0.66
1:A:1373:ARG:HG2	1:A:1547:LYS:CD	2.08	0.66
2:B:246:LEU:HD13	2:B:296:VAL:HG13	1.75	0.66
2:B:345:THR:HG22	2:B:346:GLN:O	1.94	0.66
2:B:528:ILE:HG23	2:B:529:VAL:N	2.08	0.66
2:B:1266:UNK:C	2:B:1268:UNK:N	2.55	0.66
1:D:1168:LEU:CD2	1:D:1169:LYS:H	2.06	0.66
1:D:1328:ILE:O	1:D:1329:VAL:HG12	1.94	0.66
1:D:1426:LEU:HD22	1:D:1650:GLY:HA3	1.74	0.66
2:E:18:HIS:CD2	2:E:86:LEU:HD22	2.30	0.66
2:E:41:LEU:H	2:E:42:PRO:HD2	1.59	0.66
2:E:345:THR:HG22	2:E:346:GLN:O	1.95	0.66
2:E:670:UNK:HA	2:E:694:UNK:CB	2.25	0.66
2:E:1192:UNK:O	2:E:1202:UNK:HA	1.94	0.66
2:E:1299:UNK:C	2:E:1301:UNK:N	2.56	0.66
2:E:1355:UNK:O	2:E:1407:UNK:HA	1.95	0.66
2:E:1883:GLY:N	2:E:1894:GLU:HG2	2.10	0.66
2:E:1903:ASP:CG	2:E:1907:LEU:HD21	2.15	0.66
1:G:1107:GLU:CD	1:G:1108:PRO:HD3	2.15	0.66
1:G:1215:VAL:HG12	1:G:1332:TYR:CD1	2.29	0.66
1:G:1249:SER:HB3	1:G:1301:PRO:HD2	1.77	0.66
1:A:145:UNK:CB	1:A:260:UNK:HA	2.25	0.66
1:A:850:PHE:CD2	1:A:864:VAL:HG11	2.30	0.66
1:A:1279:PHE:O	1:A:1282:THR:HB	1.95	0.66
1:A:1501:LEU:HD22	1:A:1505:GLN:NE2	2.08	0.66
2:B:408:PRO:HB2	2:B:412:ARG:HD2	1.76	0.66
2:B:1678:MET:HE2	2:B:1678:MET:HA	1.77	0.66
2:B:1779:PRO:O	2:B:1783:LEU:HB2	1.95	0.66
2:B:1869:GLU:O	2:B:1873:TYR:HB2	1.96	0.66
1:D:853:TRP:CZ2	1:D:859:ALA:HB1	2.31	0.66
1:D:1343:PHE:O	1:D:1345:ASN:N	2.29	0.66
2:E:23:PRO:HA	2:E:26:SER:CB	2.26	0.66
2:E:1984:UNK:C	2:E:1986:UNK:N	2.54	0.66
1:G:719:GLN:HG3	1:G:720:SER:N	2.10	0.66
1:G:1063:HIS:CD2	1:G:1065:GLY:HA2	2.30	0.66
1:G:1129:GLU:O	1:G:1175:ILE:O	2.14	0.66
2:H:670:UNK:HA	2:H:694:UNK:CB	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1386:UNK:HA	2:H:1413:UNK:HA	1.77	0.66
1:A:1162:GLU:OE1	1:A:1163:TYR:HE1	1.79	0.66
1:A:1202:ASP:HA	1:A:1205:ILE:CD1	2.24	0.66
1:A:1224:ILE:O	1:A:1224:ILE:HG13	1.94	0.66
2:B:439:ILE:HA	2:B:442:ASP:HB2	1.76	0.66
2:B:1009:UNK:C	2:B:1011:UNK:H	2.09	0.66
1:D:747:ALA:HA	1:D:750:GLU:HB3	1.78	0.66
1:D:1189:ILE:HG22	1:D:1190:PRO:N	2.09	0.66
2:E:616:UNK:O	2:E:618:UNK:N	2.22	0.66
1:G:1056:ILE:O	1:G:1058:GLY:N	2.28	0.66
1:G:1520:ALA:N	1:G:1521:PRO:CD	2.58	0.66
2:H:529:VAL:HG12	2:H:530:ALA:N	2.10	0.66
1:A:1311:SER:O	1:A:1312:VAL:C	2.34	0.66
1:A:1369:ALA:HA	1:A:1547:LYS:HG3	1.77	0.66
1:D:1188:GLN:HG2	1:D:1352:THR:CG2	2.25	0.66
1:D:1248:GLY:HA2	1:D:1330:GLY:HA2	1.77	0.66
2:E:18:HIS:O	2:E:22:VAL:HG23	1.96	0.66
2:E:536:ASN:O	2:E:538:ASP:N	2.29	0.66
2:E:1020:UNK:C	2:E:1022:UNK:H	2.08	0.66
2:E:1390:UNK:HA	2:E:1408:UNK:CA	2.25	0.66
1:G:1212:THR:HG23	1:G:1283:MET:SD	2.34	0.66
1:G:1259:GLY:CA	1:G:1263:ASP:HB2	2.23	0.66
1:A:435:UNK:O	1:A:436:UNK:O	2.12	0.66
1:A:1244:GLY:HA3	1:A:1294:SER:OG	1.96	0.66
1:A:1394:LEU:HA	1:A:1673:TYR:CD1	2.31	0.66
2:B:75:SER:C	2:B:77:VAL:H	1.98	0.66
2:B:1326:UNK:C	2:B:1328:UNK:H	2.06	0.66
2:B:1390:UNK:HA	2:B:1408:UNK:CA	2.25	0.66
2:B:1703:GLY:O	2:B:1704:PHE:HB3	1.95	0.66
2:B:1984:UNK:C	2:B:1986:UNK:N	2.54	0.66
1:D:769:ILE:HG13	1:D:771:PHE:CE1	2.30	0.66
2:E:528:ILE:HG23	2:E:529:VAL:N	2.10	0.66
1:G:1215:VAL:HG11	1:G:1283:MET:HG3	1.77	0.66
1:G:1216:LEU:O	1:G:1219:VAL:HG12	1.96	0.66
1:G:1394:LEU:HD23	1:G:1673:TYR:CE1	2.31	0.66
2:H:302:VAL:HG12	2:H:306:ILE:HD11	1.78	0.66
2:H:677:UNK:O	2:H:679:UNK:N	2.28	0.66
2:H:1703:GLY:O	2:H:1704:PHE:HB3	1.96	0.66
1:A:652:UNK:C	1:A:654:UNK:N	2.56	0.66
1:A:679:LEU:O	1:A:679:LEU:HD13	1.94	0.66
1:A:1042:PHE:N	1:A:1042:PHE:CD1	2.62	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1577:GLN:HE22	1:A:1591:TRP:C	1.98	0.66
2:B:1792:LEU:HA	2:B:1797:LEU:HD12	1.77	0.66
1:D:652:UNK:O	1:D:654:UNK:N	2.29	0.66
1:D:1129:GLU:O	1:D:1175:ILE:O	2.13	0.66
1:D:1197:THR:HA	1:D:1200:ILE:HG22	1.77	0.66
1:D:1271:GLN:O	1:D:1274:ILE:HB	1.96	0.66
1:D:1738:ILE:O	1:D:1739:GLN:HB2	1.95	0.66
2:E:517:HIS:CG	2:E:526:ARG:HE	2.13	0.66
1:G:764:ASP:OD1	1:G:810:LYS:NZ	2.27	0.66
1:G:1268:GLU:HB3	1:G:1269:PRO:CD	2.25	0.66
2:H:286:THR:CG2	2:H:292:PHE:HA	2.25	0.66
1:A:398:UNK:C	1:A:400:UNK:N	2.58	0.66
1:A:764:ASP:OD1	1:A:810:LYS:NZ	2.28	0.66
1:A:905:LEU:H	1:A:905:LEU:CD2	2.09	0.66
1:A:1030:TRP:CZ2	1:A:1580:LEU:HD11	2.30	0.66
1:A:1423:LYS:C	1:A:1425:ILE:N	2.46	0.66
1:A:1455:ARG:HA	1:A:1459:ILE:HG23	1.78	0.66
1:A:1478:PRO:CB	1:A:1481:ASP:HB2	2.25	0.66
2:B:221:ASN:N	2:B:221:ASN:ND2	2.44	0.66
2:B:390:ASN:CA	2:B:393:LEU:HB3	2.26	0.66
1:D:1165:VAL:HG23	1:D:1166:LYS:H	1.61	0.66
1:D:1369:ALA:HA	1:D:1547:LYS:HG3	1.77	0.66
1:G:864:VAL:HG12	1:G:865:CYS:H	1.61	0.66
1:G:1299:LYS:NZ	1:G:1323:LYS:HZ1	1.93	0.66
2:H:851:UNK:C	2:H:853:UNK:H	2.09	0.66
2:H:1173:UNK:HA	2:H:1182:UNK:CA	2.26	0.66
2:H:1871:LEU:HD23	2:H:1872:GLN:N	2.11	0.66
1:A:739:GLN:HB3	1:A:794:ILE:CG1	2.25	0.66
1:A:1328:ILE:O	1:A:1329:VAL:HG12	1.95	0.66
1:A:1378:GLU:HB2	1:A:1585:LYS:HD2	1.77	0.66
2:B:1718:THR:HG23	2:B:1765:ARG:HA	1.76	0.66
1:D:764:ASP:OD1	1:D:810:LYS:NZ	2.28	0.66
1:D:1226:SER:HB3	1:D:1386:ILE:HD11	1.78	0.66
2:E:1347:UNK:C	2:E:1349:UNK:N	2.59	0.66
2:E:1869:GLU:O	2:E:1873:TYR:HB2	1.96	0.66
1:G:145:UNK:CB	1:G:260:UNK:HA	2.25	0.66
1:G:839:TYR:HE1	1:G:843:LYS:HE2	1.60	0.66
1:G:1403:ILE:C	1:G:1655:VAL:HG22	2.16	0.66
2:H:23:PRO:HA	2:H:26:SER:CB	2.26	0.66
2:H:166:THR:HG23	2:H:168:ASP:OD2	1.96	0.66
2:H:418:ASN:HD22	2:H:418:ASN:N	1.93	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:744:UNK:C	2:H:746:UNK:N	2.57	0.66
2:H:1584:UNK:C	2:H:1586:UNK:N	2.54	0.66
2:H:1591:UNK:O	2:H:1593:UNK:N	2.28	0.66
1:A:799:ILE:O	1:A:802:MET:HB2	1.96	0.66
1:A:1019:ILE:HD11	1:A:1319:ILE:HG21	1.78	0.66
1:A:1079:LYS:HG2	1:A:1080:THR:OG1	1.95	0.66
1:A:1586:GLY:C	1:A:1588:ALA:N	2.48	0.66
1:A:1618:LEU:HD13	1:A:1623:TYR:CE2	2.30	0.66
2:B:488:VAL:HG12	2:B:490:TRP:H	1.61	0.66
1:D:748:LEU:O	1:D:752:ILE:HG13	1.94	0.66
1:D:1063:HIS:CD2	1:D:1065:GLY:HA2	2.30	0.66
1:D:1169:LYS:HZ2	1:D:1170:GLY:H	1.44	0.66
1:D:1254:VAL:HA	1:D:1257:LEU:HB2	1.75	0.66
2:E:274:SER:O	2:E:483:ILE:HD11	1.96	0.66
2:E:1776:PHE:C	2:E:1779:PRO:HD2	2.16	0.66
1:G:681:THR:OG1	1:G:770:PRO:HA	1.95	0.66
1:G:1079:LYS:HG2	1:G:1080:THR:OG1	1.96	0.66
2:H:1390:UNK:HA	2:H:1408:UNK:CA	2.25	0.66
2:H:1903:ASP:CG	2:H:1907:LEU:HD21	2.16	0.66
2:H:1984:UNK:C	2:H:1986:UNK:N	2.53	0.66
1:A:380:UNK:O	1:A:381:UNK:C	2.44	0.65
1:A:1012:LEU:O	1:A:1013:LEU:HB3	1.95	0.65
1:A:1529:TYR:O	1:A:1530:GLY:C	2.34	0.65
2:B:23:PRO:HA	2:B:26:SER:CB	2.25	0.65
2:B:490:TRP:CZ3	2:B:512:LEU:HD13	2.31	0.65
1:D:681:THR:OG1	1:D:770:PRO:HA	1.96	0.65
1:D:889:GLU:HA	1:D:893:VAL:HA	1.76	0.65
1:D:1019:ILE:HD11	1:D:1319:ILE:HG21	1.77	0.65
1:D:1268:GLU:HB3	1:D:1269:PRO:CD	2.27	0.65
1:D:1369:ALA:O	1:D:1370:THR:HG23	1.96	0.65
2:E:813:UNK:O	2:E:815:UNK:N	2.29	0.65
1:G:1009:LEU:H	1:G:1009:LEU:HD12	1.60	0.65
1:G:1042:PHE:N	1:G:1042:PHE:CD1	2.63	0.65
1:G:1423:LYS:C	1:G:1425:ILE:H	1.98	0.65
1:G:1546:THR:HG21	1:G:1549:ASN:HB3	1.78	0.65
2:H:341:ILE:O	2:H:341:ILE:HG22	1.97	0.65
2:H:490:TRP:CZ3	2:H:512:LEU:HD13	2.31	0.65
2:H:1732:ASN:O	2:H:1737:ILE:HG22	1.96	0.65
1:A:748:LEU:O	1:A:752:ILE:HG13	1.96	0.65
1:A:1168:LEU:HD13	1:A:1169:LYS:N	2.10	0.65
1:A:1193:TRP:O	1:A:1194:ASN:HB2	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:238:CYS:HA	2:B:275:GLN:HE22	1.61	0.65
2:B:881:UNK:O	2:B:883:UNK:N	2.29	0.65
1:D:705:VAL:HG11	1:D:718:TYR:HE2	1.60	0.65
1:D:925:ASP:O	1:D:926:LEU:HD23	1.95	0.65
1:D:1012:LEU:O	1:D:1013:LEU:HB3	1.96	0.65
1:D:1082:GLU:N	1:D:1083:PRO:CD	2.58	0.65
1:D:1178:ALA:C	1:D:1179:LEU:HD22	2.16	0.65
1:D:1471:LYS:HD3	1:D:1474:ALA:HB2	1.78	0.65
1:D:1580:LEU:O	1:D:1580:LEU:CG	2.44	0.65
1:D:1589:GLY:HA2	1:D:1592:MET:CE	2.26	0.65
2:E:1779:PRO:O	2:E:1783:LEU:HB2	1.96	0.65
1:G:552:UNK:O	1:G:554:UNK:N	2.20	0.65
1:G:1144:PHE:CG	1:G:1145:LYS:N	2.63	0.65
2:H:85:ASN:ND2	2:H:134:LYS:HB2	2.11	0.65
1:A:679:LEU:H	1:A:679:LEU:HD12	1.61	0.65
1:A:899:LYS:O	1:A:901:MET:N	2.29	0.65
1:A:1013:LEU:HD23	1:A:1013:LEU:C	2.16	0.65
1:A:1403:ILE:C	1:A:1655:VAL:HG22	2.17	0.65
2:B:59:GLU:OE1	2:B:122:LEU:HA	1.97	0.65
2:B:444:VAL:HA	2:B:449:SER:OG	1.97	0.65
2:B:1173:UNK:HA	2:B:1182:UNK:CA	2.26	0.65
1:D:1095:THR:O	1:D:1096:SER:HB2	1.97	0.65
1:D:1150:ASP:HB3	1:D:1151:LYS:HD2	1.78	0.65
1:D:1207:GLN:O	1:D:1208:VAL:HG22	1.95	0.65
1:D:1455:ARG:HA	1:D:1459:ILE:HG23	1.78	0.65
1:D:1478:PRO:CB	1:D:1481:ASP:HB2	2.26	0.65
1:D:1527:ALA:O	1:D:1528:THR:C	2.32	0.65
2:E:298:LYS:O	2:E:302:VAL:HG23	1.97	0.65
2:E:1386:UNK:HA	2:E:1413:UNK:HA	1.78	0.65
2:E:1625:UNK:HA	2:E:1642:UNK:HA	1.77	0.65
2:E:1871:LEU:HD23	2:E:1872:GLN:N	2.12	0.65
1:G:1012:LEU:O	1:G:1013:LEU:HB3	1.95	0.65
1:G:1115:ASN:ND2	1:G:1115:ASN:N	2.44	0.65
2:H:390:ASN:HA	2:H:393:LEU:HD23	1.77	0.65
2:H:1299:UNK:C	2:H:1301:UNK:N	2.56	0.65
2:H:1347:UNK:C	2:H:1349:UNK:N	2.58	0.65
2:H:1625:UNK:HA	2:H:1642:UNK:HA	1.79	0.65
2:H:1692:ASN:O	2:H:1696:ASN:HB2	1.97	0.65
1:A:826:MET:HE1	1:A:847:GLU:HG3	1.78	0.65
1:A:864:VAL:HG12	1:A:865:CYS:H	1.60	0.65
1:A:884:ILE:HG22	1:A:887:GLY:HA3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:903:PHE:HA	1:A:906:LEU:CD2	2.26	0.65
1:A:1037:TRP:CD2	1:A:1598:GLN:HG2	2.31	0.65
1:A:1240:VAL:O	1:A:1240:VAL:HG22	1.94	0.65
1:A:1423:LYS:C	1:A:1425:ILE:H	2.00	0.65
1:A:1623:TYR:O	1:A:1624:VAL:O	2.15	0.65
2:B:238:CYS:HA	2:B:275:GLN:CD	2.17	0.65
2:B:597:UNK:HA	2:B:600:UNK:CB	2.26	0.65
1:D:398:UNK:C	1:D:400:UNK:N	2.57	0.65
1:D:905:LEU:H	1:D:905:LEU:CD2	2.09	0.65
1:D:1056:ILE:O	1:D:1058:GLY:N	2.29	0.65
1:D:1189:ILE:CG2	1:D:1377:MET:SD	2.84	0.65
1:D:1389:GLN:HB3	1:D:1392:LEU:CD2	2.23	0.65
1:D:1426:LEU:O	1:D:1428:THR:N	2.29	0.65
2:E:1332:UNK:C	2:E:1334:UNK:N	2.57	0.65
2:E:1541:UNK:HA	2:E:1628:UNK:CB	2.25	0.65
1:G:435:UNK:O	1:G:436:UNK:O	2.13	0.65
1:G:822:VAL:HG12	1:G:824:LEU:HD23	1.78	0.65
1:G:1021:VAL:HA	1:G:1387:ILE:HG22	1.77	0.65
1:G:1394:LEU:HA	1:G:1673:TYR:CD1	2.31	0.65
1:G:1618:LEU:HD13	1:G:1623:TYR:CE2	2.32	0.65
2:H:1542:UNK:N	2:H:1628:UNK:HA	2.12	0.65
1:A:1093:TYR:O	1:A:1094:GLU:HB3	1.96	0.65
1:A:1144:PHE:CG	1:A:1145:LYS:N	2.63	0.65
1:A:1155:PHE:C	1:A:1171:ALA:HB2	2.17	0.65
1:A:1189:ILE:CG2	1:A:1377:MET:SD	2.84	0.65
1:A:1471:LYS:HD3	1:A:1474:ALA:HB2	1.78	0.65
2:B:144:ALA:O	2:B:146:PHE:N	2.29	0.65
2:B:806:UNK:HA	2:B:1034:UNK:CB	2.26	0.65
1:D:694:GLN:HB3	1:D:725:TYR:CD2	2.31	0.65
1:D:838:MET:HA	1:D:841:GLU:OE1	1.95	0.65
1:D:1151:LYS:HD2	1:D:1151:LYS:H	1.61	0.65
2:E:115:THR:OG1	2:E:118:LYS:HB2	1.97	0.65
2:E:166:THR:HG23	2:E:168:ASP:OD2	1.97	0.65
2:E:567:UNK:HA	2:E:572:UNK:O	1.95	0.65
2:E:1051:UNK:C	2:E:1053:UNK:N	2.58	0.65
1:G:1369:ALA:CA	1:G:1547:LYS:HD2	2.26	0.65
1:G:1527:ALA:O	1:G:1528:THR:C	2.34	0.65
1:G:1732:THR:O	1:G:1733:PHE:O	2.14	0.65
2:H:302:VAL:O	2:H:306:ILE:HG13	1.96	0.65
1:A:552:UNK:O	1:A:554:UNK:N	2.21	0.65
1:A:839:TYR:HE1	1:A:843:LYS:HE2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1707:THR:HG23	1:A:1710:LEU:HG	1.79	0.65
2:B:466:SER:O	2:B:468:LEU:N	2.29	0.65
2:B:494:THR:HB	2:B:520:LYS:HZ2	1.62	0.65
1:D:1174:TYR:O	1:D:1175:ILE:CD1	2.44	0.65
1:D:1187:GLY:C	1:D:1188:GLN:NE2	2.50	0.65
1:D:1373:ARG:CG	1:D:1547:LYS:HB3	2.27	0.65
1:G:1130:ASP:O	1:G:1131:LEU:O	2.13	0.65
1:G:1174:TYR:O	1:G:1175:ILE:CD1	2.44	0.65
1:G:1373:ARG:CD	1:G:1547:LYS:HB3	2.27	0.65
1:G:1455:ARG:O	1:G:1456:GLU:HB2	1.96	0.65
1:G:1455:ARG:HA	1:G:1459:ILE:HG23	1.79	0.65
1:G:1583:HIS:HB2	1:G:1585:LYS:HG2	1.77	0.65
1:G:1586:GLY:C	1:G:1588:ALA:N	2.49	0.65
2:H:1791:ASP:O	2:H:1794:SER:HB3	1.96	0.65
1:A:1520:ALA:N	1:A:1521:PRO:CD	2.58	0.65
1:A:1589:GLY:HA2	1:A:1592:MET:CE	2.27	0.65
1:A:1625:LEU:HD22	1:A:1625:LEU:O	1.97	0.65
1:A:1697:LEU:O	1:A:1698:PHE:HB3	1.95	0.65
2:B:483:ILE:CG2	2:B:484:ILE:N	2.57	0.65
2:B:1732:ASN:O	2:B:1737:ILE:HG22	1.97	0.65
1:D:1079:LYS:HG2	1:D:1080:THR:OG1	1.96	0.65
1:D:1240:VAL:O	1:D:1240:VAL:HG22	1.97	0.65
2:E:85:ASN:ND2	2:E:134:LYS:HB2	2.11	0.65
2:E:221:ASN:N	2:E:221:ASN:ND2	2.44	0.65
2:E:444:VAL:HA	2:E:449:SER:OG	1.97	0.65
2:E:1320:UNK:C	2:E:1322:UNK:H	2.09	0.65
2:E:1812:TYR:CD2	2:E:1812:TYR:N	2.63	0.65
1:G:380:UNK:O	1:G:381:UNK:C	2.45	0.65
1:G:679:LEU:HD11	1:G:768:ILE:HG12	1.79	0.65
1:G:716:ASP:C	1:G:719:GLN:HB3	2.17	0.65
1:G:818:ARG:O	1:G:818:ARG:HG2	1.97	0.65
1:G:925:ASP:O	1:G:926:LEU:HD23	1.97	0.65
1:G:1248:GLY:HA2	1:G:1330:GLY:HA2	1.78	0.65
1:G:1311:SER:O	1:G:1312:VAL:C	2.34	0.65
1:G:1478:PRO:CB	1:G:1481:ASP:HB2	2.26	0.65
2:H:92:GLU:HA	2:H:96:LEU:CD1	2.26	0.65
1:A:994:GLU:OE1	1:A:994:GLU:N	2.30	0.65
1:A:1174:TYR:O	1:A:1175:ILE:CD1	2.43	0.65
1:A:1216:LEU:O	1:A:1219:VAL:HG12	1.95	0.65
1:A:1419:PRO:HD3	1:A:1646:PHE:HD1	1.62	0.65
1:A:1482:GLN:O	1:A:1486:LEU:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:744:UNK:C	2:B:746:UNK:N	2.54	0.65
1:D:822:VAL:HG12	1:D:824:LEU:HD23	1.78	0.65
1:D:1130:ASP:O	1:D:1131:LEU:O	2.15	0.65
1:D:1376:PHE:HD1	1:D:1376:PHE:H	1.45	0.65
2:E:92:GLU:HA	2:E:96:LEU:CD1	2.27	0.65
2:E:344:LEU:HD11	2:E:348:GLN:HB3	1.79	0.65
2:E:653:UNK:C	2:E:655:UNK:N	2.56	0.65
2:E:1670:GLY:HA2	2:E:1672:GLN:HE22	1.61	0.65
2:E:1874:VAL:O	2:E:1878:VAL:HG22	1.97	0.65
1:G:1188:GLN:HG2	1:G:1352:THR:CG2	2.23	0.65
1:G:1782:UNK:C	1:G:1784:UNK:H	2.09	0.65
2:H:246:LEU:HD13	2:H:296:VAL:HG13	1.77	0.65
2:H:332:GLU:OE2	2:H:390:ASN:HB3	1.97	0.65
2:H:390:ASN:CA	2:H:393:LEU:HB3	2.27	0.65
2:H:1673:GLU:H	2:H:1676:MET:HE1	1.60	0.65
2:H:1715:VAL:CG2	2:H:1770:LEU:H	2.10	0.65
2:H:1718:THR:HG23	2:H:1765:ARG:HA	1.77	0.65
2:H:1772:SER:HA	2:H:1777:THR:OG1	1.97	0.65
1:A:652:UNK:O	1:A:654:UNK:N	2.30	0.65
1:A:1096:SER:O	1:A:1098:LEU:N	2.29	0.65
1:A:1165:VAL:HG23	1:A:1166:LYS:H	1.61	0.65
1:A:1527:ALA:O	1:A:1528:THR:C	2.35	0.65
1:A:1553:GLU:C	1:A:1555:ALA:H	2.00	0.65
2:B:349:VAL:O	2:B:353:VAL:HG23	1.97	0.65
2:B:1542:UNK:N	2:B:1628:UNK:HA	2.11	0.65
1:D:1193:TRP:O	1:D:1194:ASN:HB2	1.96	0.65
1:D:1427:THR:C	1:D:1429:ALA:N	2.49	0.65
1:D:1455:ARG:O	1:D:1456:GLU:HB2	1.95	0.65
2:E:332:GLU:OE2	2:E:390:ASN:HB3	1.97	0.65
2:E:418:ASN:HD22	2:E:418:ASN:N	1.93	0.65
2:E:806:UNK:HA	2:E:1034:UNK:CB	2.27	0.65
2:E:1732:ASN:O	2:E:1737:ILE:HG22	1.97	0.65
1:G:1142:GLU:HA	1:G:1145:LYS:HB2	1.79	0.65
1:G:1501:LEU:O	1:G:1504:ALA:HB3	1.97	0.65
1:A:1095:THR:O	1:A:1096:SER:HB2	1.95	0.65
1:A:1107:GLU:HB3	1:A:1108:PRO:HD2	1.76	0.65
1:A:1189:ILE:HG22	1:A:1190:PRO:N	2.08	0.65
1:A:1326:ILE:HA	1:A:1387:ILE:O	1.96	0.65
1:D:503:UNK:C	1:D:505:UNK:H	2.09	0.65
1:D:850:PHE:CD2	1:D:864:VAL:HG11	2.32	0.65
1:D:1351:ASN:ND2	1:D:1353:LEU:O	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:250:VAL:O	2:E:253:ALA:HB3	1.97	0.65
2:E:310:CYS:HB3	2:E:432:LEU:HD11	1.79	0.65
2:E:1536:UNK:C	2:E:1538:UNK:N	2.58	0.65
2:E:1591:UNK:O	2:E:1593:UNK:N	2.31	0.65
1:G:1335:PHE:CE1	1:G:1340:SER:HB2	2.19	0.65
1:G:1376:PHE:CD2	1:G:1584:PRO:HD2	2.32	0.65
1:G:1445:MET:O	1:G:1447:TYR:N	2.30	0.65
1:G:1482:GLN:O	1:G:1486:LEU:HB2	1.97	0.65
1:G:1673:TYR:O	1:G:1675:ALA:N	2.30	0.65
2:H:1869:GLU:O	2:H:1873:TYR:HB2	1.96	0.65
2:H:1919:LEU:O	2:H:1919:LEU:HD23	1.97	0.65
1:A:1275:LEU:O	1:A:1275:LEU:HD22	1.96	0.64
2:B:115:THR:OG1	2:B:118:LYS:HB2	1.97	0.64
2:B:1740:THR:HB	2:B:1751:ILE:CG1	2.27	0.64
1:D:907:GLY:C	1:D:909:LEU:N	2.47	0.64
1:D:928:GLY:C	1:D:930:LEU:H	2.01	0.64
1:D:1056:ILE:HG22	1:D:1057:MET:H	1.61	0.64
1:D:1162:GLU:OE1	1:D:1163:TYR:HE1	1.80	0.64
1:D:1487:LEU:HD23	1:D:1754:UNK:CB	2.27	0.64
1:D:1623:TYR:O	1:D:1624:VAL:O	2.15	0.64
2:E:157:VAL:HG11	2:E:496:PHE:CE1	2.32	0.64
1:G:1194:ASN:O	1:G:1195:ALA:HB2	1.97	0.64
1:G:1529:TYR:O	1:G:1530:GLY:C	2.36	0.64
2:H:1733:TYR:HE1	2:H:1760:THR:HG23	1.61	0.64
1:A:822:VAL:HG12	1:A:824:LEU:HD23	1.79	0.64
1:A:1110:LEU:CD1	1:A:1120:GLU:HG3	2.20	0.64
1:A:1232:TYR:O	1:A:1234:MET:N	2.29	0.64
1:A:1431:GLU:HA	1:A:1521:PRO:HB2	1.79	0.64
1:A:1704:ALA:HB1	1:A:1705:PRO:CD	2.20	0.64
2:B:4:TYR:CD1	2:B:5:SER:N	2.65	0.64
2:B:46:GLU:HG3	2:B:51:ASP:CB	2.25	0.64
2:B:302:VAL:O	2:B:306:ILE:HG13	1.97	0.64
2:B:1258:UNK:O	2:B:1260:UNK:N	2.30	0.64
1:D:1277:GLU:N	1:D:1277:GLU:OE2	2.30	0.64
1:D:1311:SER:O	1:D:1312:VAL:C	2.35	0.64
1:D:1326:ILE:HA	1:D:1387:ILE:O	1.97	0.64
1:D:1394:LEU:HD23	1:D:1673:TYR:CE1	2.31	0.64
2:E:366:VAL:CG2	2:E:381:GLY:HA3	2.23	0.64
2:E:752:UNK:O	2:E:753:UNK:CB	2.45	0.64
1:G:747:ALA:HA	1:G:750:GLU:HB3	1.78	0.64
1:G:1088:ASP:OD2	1:G:1097:ILE:HD13	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1093:TYR:O	1:G:1094:GLU:HB3	1.97	0.64
1:G:1158:PRO:CG	1:G:1159:GLU:H	2.10	0.64
1:G:1197:THR:HA	1:G:1200:ILE:HG22	1.80	0.64
1:G:1244:GLY:HA3	1:G:1294:SER:OG	1.96	0.64
1:G:1286:TRP:HD1	1:G:1290:LEU:CD1	2.09	0.64
1:G:1501:LEU:HD22	1:G:1505:GLN:NE2	2.12	0.64
1:G:1586:GLY:O	1:G:1588:ALA:N	2.30	0.64
2:H:455:ILE:HD12	2:H:469:ARG:CB	2.23	0.64
2:H:528:ILE:HG23	2:H:529:VAL:N	2.11	0.64
1:A:1178:ALA:C	1:A:1179:LEU:CD2	2.66	0.64
2:B:298:LYS:O	2:B:302:VAL:HG23	1.97	0.64
2:B:418:ASN:HD22	2:B:418:ASN:N	1.95	0.64
2:B:1573:UNK:O	2:B:1575:UNK:N	2.31	0.64
1:D:797:THR:O	1:D:800:LEU:HB2	1.97	0.64
1:D:1326:ILE:HG13	1:D:1388:MET:CG	2.28	0.64
1:D:1445:MET:O	1:D:1447:TYR:N	2.29	0.64
2:E:490:TRP:CZ3	2:E:512:LEU:HD13	2.33	0.64
2:E:1698:PHE:HE1	2:E:1828:VAL:HG21	1.61	0.64
1:G:1275:LEU:O	1:G:1275:LEU:HD22	1.97	0.64
1:G:1471:LYS:HD3	1:G:1474:ALA:HB2	1.80	0.64
2:H:189:LYS:O	2:H:192:ALA:HB3	1.96	0.64
2:H:242:GLY:HA2	2:H:245:GLN:HG3	1.79	0.64
2:H:246:LEU:O	2:H:250:VAL:HG23	1.97	0.64
2:H:259:THR:N	2:H:262:GLU:HG3	2.12	0.64
2:H:349:VAL:O	2:H:353:VAL:HG23	1.97	0.64
2:H:511:GLY:O	2:H:513:GLY:N	2.26	0.64
2:H:1830:VAL:HG13	2:H:1831:VAL:N	2.13	0.64
1:A:853:TRP:CZ2	1:A:859:ALA:HB1	2.32	0.64
1:A:1551:LYS:O	1:A:1553:GLU:N	2.30	0.64
1:A:1732:THR:O	1:A:1733:PHE:O	2.14	0.64
2:B:92:GLU:HA	2:B:96:LEU:CD1	2.25	0.64
2:B:157:VAL:HG11	2:B:496:PHE:CE1	2.32	0.64
2:B:455:ILE:HD12	2:B:469:ARG:CB	2.24	0.64
2:B:617:UNK:O	2:B:652:UNK:O	2.16	0.64
2:B:1673:GLU:H	2:B:1676:MET:HE1	1.61	0.64
1:D:1114:TYR:OH	1:D:1194:ASN:HA	1.98	0.64
1:D:1280:ILE:HD12	1:D:1280:ILE:H	1.61	0.64
1:D:1352:THR:O	1:D:1353:LEU:CB	2.45	0.64
1:D:1431:GLU:HA	1:D:1521:PRO:HB2	1.79	0.64
1:G:1536:LEU:HA	1:G:1638:ALA:HB3	1.78	0.64
2:H:267:LEU:CG	2:H:268:LYS:H	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:389:UNK:O	1:A:392:UNK:N	2.30	0.64
1:A:797:THR:O	1:A:800:LEU:HB2	1.97	0.64
1:A:1088:ASP:OD2	1:A:1097:ILE:HD13	1.98	0.64
1:A:1119:LYS:HG3	1:A:1122:ILE:H	1.62	0.64
1:A:1119:LYS:O	1:A:1121:MET:N	2.29	0.64
1:A:1249:SER:HB3	1:A:1301:PRO:HD2	1.80	0.64
1:A:1604:ILE:HG23	1:A:1630:THR:HB	1.79	0.64
2:B:1605:UNK:O	2:B:1607:UNK:N	2.25	0.64
2:B:1772:SER:HA	2:B:1777:THR:OG1	1.96	0.64
2:B:1776:PHE:C	2:B:1779:PRO:HD2	2.18	0.64
1:D:758:ASN:HD22	1:D:758:ASN:N	1.93	0.64
1:D:1090:LYS:O	1:D:1091:ALA:O	2.16	0.64
1:D:1119:LYS:HE3	1:D:1121:MET:CB	2.26	0.64
1:D:1190:PRO:CG	1:D:1379:ALA:HA	2.27	0.64
1:D:1586:GLY:C	1:D:1588:ALA:N	2.50	0.64
1:D:1697:LEU:H	1:D:1697:LEU:CD1	2.02	0.64
1:D:1706:TYR:HE2	1:D:1715:TYR:CZ	2.14	0.64
2:E:349:VAL:O	2:E:353:VAL:HG23	1.98	0.64
1:G:1246:CYS:CA	1:G:1328:ILE:HG23	2.28	0.64
1:G:1271:GLN:O	1:G:1274:ILE:HB	1.97	0.64
1:G:1328:ILE:O	1:G:1329:VAL:HG12	1.96	0.64
1:G:1340:SER:C	1:G:1341:PHE:O	2.32	0.64
1:G:1738:ILE:O	1:G:1739:GLN:HB2	1.96	0.64
2:H:274:SER:O	2:H:483:ILE:HD11	1.98	0.64
2:H:1334:UNK:O	2:H:1335:UNK:O	2.16	0.64
1:A:374:UNK:O	1:A:375:UNK:C	2.45	0.64
1:A:503:UNK:C	1:A:505:UNK:H	2.09	0.64
1:A:1271:GLN:O	1:A:1274:ILE:HB	1.97	0.64
2:B:1812:TYR:CD2	2:B:1812:TYR:N	2.65	0.64
2:B:1880:LYS:HD3	2:B:1899:VAL:HG11	1.78	0.64
1:D:1093:TYR:O	1:D:1094:GLU:HB3	1.97	0.64
1:D:1640:SER:HB2	1:D:1654:ILE:HB	1.78	0.64
2:E:390:ASN:CA	2:E:393:LEU:HB3	2.27	0.64
1:G:504:UNK:CB	1:G:633:UNK:HA	2.27	0.64
1:G:927:ASN:HD21	1:G:931:GLN:H	1.46	0.64
1:G:1096:SER:O	1:G:1098:LEU:N	2.30	0.64
2:H:843:UNK:C	2:H:845:UNK:N	2.58	0.64
2:H:928:UNK:C	2:H:930:UNK:N	2.56	0.64
2:H:1776:PHE:C	2:H:1779:PRO:HD2	2.18	0.64
2:H:1792:LEU:HA	2:H:1797:LEU:HD12	1.80	0.64
1:A:664:UNK:C	1:A:666:UNK:N	2.59	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1107:GLU:HB3	1:D:1108:PRO:HD2	1.80	0.64
1:D:1115:ASN:ND2	1:D:1115:ASN:N	2.43	0.64
2:E:302:VAL:O	2:E:306:ILE:HG13	1.97	0.64
2:E:851:UNK:C	2:E:853:UNK:H	2.10	0.64
1:G:1030:TRP:CZ2	1:G:1580:LEU:HD11	2.31	0.64
2:H:52:ASP:HB2	2:H:113:ASP:CG	2.18	0.64
2:H:115:THR:OG1	2:H:118:LYS:HB2	1.98	0.64
2:H:536:ASN:O	2:H:538:ASP:N	2.31	0.64
2:H:806:UNK:HA	2:H:1034:UNK:CB	2.28	0.64
2:H:1663:UNK:HA	2:H:1803:THR:OG1	1.98	0.64
2:H:1966:UNK:HA	2:H:1970:UNK:CB	2.27	0.64
1:A:1038:GLU:OE1	1:A:1045:PHE:HA	1.98	0.64
1:A:1142:GLU:HA	1:A:1145:LYS:HB2	1.78	0.64
1:A:1232:TYR:C	1:A:1234:MET:H	2.02	0.64
1:A:1246:CYS:CA	1:A:1328:ILE:HG23	2.27	0.64
1:A:1352:THR:O	1:A:1353:LEU:CB	2.46	0.64
2:B:45:THR:HG23	2:B:46:GLU:OE1	1.98	0.64
2:B:338:MET:HG3	2:B:380:SER:HB2	1.78	0.64
2:B:344:LEU:HD11	2:B:348:GLN:HB3	1.79	0.64
2:B:583:UNK:O	2:B:584:UNK:CB	2.46	0.64
2:B:1347:UNK:C	2:B:1349:UNK:N	2.57	0.64
2:B:1541:UNK:HA	2:B:1628:UNK:CB	2.28	0.64
1:D:1015:LEU:HD23	1:D:1018:VAL:HG12	1.80	0.64
1:D:1586:GLY:O	1:D:1588:ALA:N	2.31	0.64
2:E:43:GLU:HB2	2:E:44:PRO:CD	2.18	0.64
2:E:53:GLU:HG3	2:E:54:PRO:HD2	1.80	0.64
2:E:1573:UNK:O	2:E:1575:UNK:N	2.31	0.64
1:G:899:LYS:O	1:G:901:MET:N	2.30	0.64
1:G:994:GLU:OE1	1:G:994:GLU:N	2.28	0.64
1:G:1139:GLU:O	1:G:1165:VAL:HG21	1.97	0.64
1:G:1187:GLY:C	1:G:1188:GLN:NE2	2.51	0.64
1:G:1224:ILE:O	1:G:1224:ILE:HG13	1.98	0.64
1:G:1487:LEU:HD23	1:G:1754:UNK:CB	2.28	0.64
1:A:497:UNK:C	1:A:499:UNK:N	2.61	0.64
1:A:1187:GLY:H	1:A:1188:GLN:NE2	1.96	0.64
1:A:1369:ALA:HA	1:A:1547:LYS:CG	2.28	0.64
1:A:1706:TYR:CE2	1:A:1715:TYR:CZ	2.85	0.64
2:B:18:HIS:HD2	2:B:86:LEU:HD22	1.63	0.64
2:B:39:LYS:C	2:B:42:PRO:HD2	2.19	0.64
2:B:286:THR:CG2	2:B:292:PHE:HA	2.28	0.64
2:B:332:GLU:OE2	2:B:390:ASN:HB3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1299:UNK:C	2:B:1301:UNK:N	2.57	0.64
1:D:1142:GLU:HA	1:D:1145:LYS:HB2	1.79	0.64
1:D:1340:SER:C	1:D:1341:PHE:O	2.32	0.64
1:D:1411:THR:OG1	1:D:1412:ASP:N	2.24	0.64
1:D:1741:LYS:HE2	1:D:1741:LYS:HA	1.78	0.64
2:E:261:GLY:HA2	2:E:264:ARG:HG2	1.80	0.64
2:E:286:THR:HG23	2:E:292:PHE:HA	1.80	0.64
1:G:412:UNK:O	1:G:414:UNK:N	2.30	0.64
1:G:664:UNK:O	1:G:666:UNK:N	2.30	0.64
1:G:1426:LEU:O	1:G:1428:THR:N	2.31	0.64
1:G:1544:THR:OG1	1:G:1546:THR:CG2	2.45	0.64
1:G:1623:TYR:O	1:G:1624:VAL:O	2.15	0.64
2:H:238:CYS:HA	2:H:275:GLN:CD	2.17	0.64
2:H:417:SER:C	2:H:418:ASN:HD22	2.00	0.64
2:H:1266:UNK:O	2:H:1268:UNK:N	2.31	0.64
1:A:925:ASP:O	1:A:926:LEU:HD23	1.97	0.64
1:A:1111:PHE:O	1:A:1112:ASN:HB2	1.96	0.64
1:A:1162:GLU:OE1	1:A:1163:TYR:CE1	2.50	0.64
1:A:1212:THR:HG23	1:A:1283:MET:SD	2.38	0.64
1:A:1475:GLU:OE2	1:A:1479:SER:HA	1.98	0.64
2:B:235:PRO:O	2:B:236:ILE:HB	1.97	0.64
2:B:241:ILE:CG2	2:B:242:GLY:H	2.10	0.64
2:B:752:UNK:O	2:B:753:UNK:CB	2.46	0.64
2:B:1334:UNK:O	2:B:1335:UNK:O	2.16	0.64
1:D:490:UNK:O	1:D:491:UNK:C	2.46	0.64
1:D:1264:ARG:C	1:D:1266:LYS:N	2.47	0.64
2:E:59:GLU:OE1	2:E:122:LEU:HA	1.97	0.64
2:E:1258:UNK:O	2:E:1260:UNK:N	2.31	0.64
1:G:739:GLN:HB3	1:G:794:ILE:CG1	2.25	0.64
1:G:866:GLY:O	1:G:867:ALA:HB2	1.97	0.64
1:G:1462:TRP:CE3	1:G:1462:TRP:C	2.71	0.64
1:G:1577:GLN:HE22	1:G:1591:TRP:C	2.01	0.64
1:G:1707:THR:HG23	1:G:1710:LEU:HG	1.79	0.64
2:H:444:VAL:C	2:H:446:ASN:H	2.01	0.64
1:A:1076:VAL:HG11	1:A:1087:LYS:CA	2.23	0.63
1:A:1248:GLY:HA2	1:A:1330:GLY:HA2	1.79	0.63
1:A:1455:ARG:O	1:A:1456:GLU:HB2	1.96	0.63
1:A:1487:LEU:HD23	1:A:1754:UNK:CB	2.27	0.63
2:B:843:UNK:C	2:B:845:UNK:N	2.58	0.63
1:D:679:LEU:HD11	1:D:768:ILE:HG12	1.81	0.63
1:D:719:GLN:HG3	1:D:720:SER:N	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1145:LYS:O	1:D:1148:HIS:HB3	1.97	0.63
1:D:1673:TYR:O	1:D:1675:ALA:N	2.30	0.63
1:D:1732:THR:O	1:D:1733:PHE:O	2.15	0.63
2:E:238:CYS:HA	2:E:275:GLN:CD	2.18	0.63
2:E:514:VAL:O	2:E:517:HIS:HB3	1.98	0.63
2:E:995:UNK:C	2:E:997:UNK:N	2.59	0.63
2:H:881:UNK:O	2:H:883:UNK:N	2.31	0.63
1:A:1029:PRO:HG2	1:A:1581:THR:HG23	1.81	0.63
1:A:1168:LEU:CD2	1:A:1169:LYS:H	2.09	0.63
1:A:1311:SER:O	1:A:1314:ILE:N	2.31	0.63
1:A:1373:ARG:CD	1:A:1547:LYS:HB3	2.29	0.63
1:A:1426:LEU:O	1:A:1428:THR:N	2.31	0.63
2:B:341:ILE:O	2:B:341:ILE:HG22	1.98	0.63
2:B:1332:UNK:C	2:B:1334:UNK:N	2.57	0.63
1:D:435:UNK:O	1:D:436:UNK:O	2.15	0.63
1:D:899:LYS:C	1:D:901:MET:N	2.52	0.63
1:D:1026:GLU:OE2	1:D:1036:ARG:HG2	1.98	0.63
1:D:1232:TYR:O	1:D:1234:MET:N	2.31	0.63
1:D:1553:GLU:HB2	1:D:1644:PHE:HE2	1.63	0.63
2:E:511:GLY:O	2:E:513:GLY:N	2.27	0.63
1:G:903:PHE:HA	1:G:906:LEU:CD2	2.29	0.63
1:G:1026:GLU:OE2	1:G:1036:ARG:HG2	1.98	0.63
1:G:1056:ILE:HG22	1:G:1057:MET:H	1.62	0.63
1:G:1090:LYS:O	1:G:1091:ALA:O	2.15	0.63
1:G:1162:GLU:OE1	1:G:1163:TYR:HE1	1.81	0.63
1:G:1222:ALA:O	1:G:1225:ALA:HB3	1.97	0.63
1:G:1462:TRP:HZ3	1:G:1466:GLU:CB	2.10	0.63
1:G:1578:LYS:HE3	1:G:1584:PRO:HB3	1.80	0.63
1:G:1706:TYR:CE2	1:G:1715:TYR:CZ	2.86	0.63
2:H:25:ALA:O	2:H:29:ILE:HB	1.98	0.63
2:H:1355:UNK:O	2:H:1407:UNK:HA	1.96	0.63
2:H:1485:UNK:HA	2:H:1511:UNK:O	1.98	0.63
2:H:1883:GLY:CA	2:H:1894:GLU:HG2	2.28	0.63
1:A:1026:GLU:OE2	1:A:1036:ARG:HG2	1.97	0.63
1:A:1520:ALA:H	1:A:1521:PRO:CD	2.11	0.63
2:B:274:SER:O	2:B:483:ILE:HD11	1.99	0.63
2:B:1485:UNK:HA	2:B:1511:UNK:O	1.98	0.63
2:B:1966:UNK:HA	2:B:1970:UNK:CB	2.27	0.63
1:D:1099:GLU:O	1:D:1102:GLY:N	2.21	0.63
1:D:1501:LEU:HD22	1:D:1505:GLN:NE2	2.13	0.63
1:D:1583:HIS:HB2	1:D:1585:LYS:HG2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1706:TYR:CE2	1:D:1715:TYR:CZ	2.86	0.63
2:E:238:CYS:HA	2:E:275:GLN:HE22	1.63	0.63
2:E:744:UNK:C	2:E:746:UNK:N	2.55	0.63
2:E:1733:TYR:HE1	2:E:1760:THR:HG23	1.63	0.63
2:E:1883:GLY:CA	2:E:1894:GLU:HG2	2.29	0.63
1:G:1095:THR:O	1:G:1096:SER:HB2	1.96	0.63
1:G:1187:GLY:H	1:G:1188:GLN:NE2	1.95	0.63
1:G:1198:TYR:O	1:G:1695:ASN:HB3	1.99	0.63
1:G:1323:LYS:O	1:G:1324:ALA:HB2	1.98	0.63
2:H:286:THR:HG23	2:H:292:PHE:HA	1.81	0.63
2:H:567:UNK:HA	2:H:572:UNK:O	1.97	0.63
2:H:1541:UNK:HA	2:H:1628:UNK:CB	2.28	0.63
2:H:1864:ALA:O	2:H:1866:PHE:N	2.31	0.63
2:H:2040:UNK:C	2:H:2042:UNK:N	2.60	0.63
1:A:1676:LYS:O	1:A:1679:ALA:HB3	1.99	0.63
2:B:1591:UNK:O	2:B:1593:UNK:N	2.30	0.63
2:B:1740:THR:O	2:B:1750:LYS:HA	1.99	0.63
1:D:1089:VAL:O	1:D:1091:ALA:N	2.31	0.63
1:D:1232:TYR:C	1:D:1234:MET:H	2.02	0.63
1:D:1253:GLY:O	1:D:1254:VAL:O	2.16	0.63
2:E:1173:UNK:HA	2:E:1182:UNK:CA	2.27	0.63
2:E:1830:VAL:HG13	2:E:1831:VAL:N	2.13	0.63
1:G:694:GLN:HB3	1:G:725:TYR:CD2	2.33	0.63
1:G:1145:LYS:O	1:G:1148:HIS:HB3	1.99	0.63
1:G:1243:VAL:HG12	1:G:1325:ARG:N	2.13	0.63
1:G:1326:ILE:HA	1:G:1387:ILE:O	1.98	0.63
2:H:241:ILE:CG2	2:H:242:GLY:H	2.11	0.63
2:H:752:UNK:O	2:H:753:UNK:CB	2.46	0.63
2:H:1854:MET:HA	2:H:1895:ASN:HB2	1.81	0.63
1:A:1207:GLN:HE21	1:A:1207:GLN:CA	2.11	0.63
2:B:122:LEU:HD23	2:B:123:ILE:N	2.14	0.63
2:B:350:GLN:O	2:B:353:VAL:N	2.32	0.63
1:D:852:ARG:O	1:D:854:HIS:N	2.32	0.63
1:D:884:ILE:HG22	1:D:887:GLY:HA3	1.80	0.63
1:D:1369:ALA:HA	1:D:1547:LYS:CG	2.29	0.63
1:D:1604:ILE:HG23	1:D:1630:THR:HB	1.81	0.63
2:E:4:TYR:CD1	2:E:5:SER:N	2.66	0.63
2:E:45:THR:HG23	2:E:46:GLU:OE1	1.98	0.63
2:E:235:PRO:O	2:E:236:ILE:HB	1.98	0.63
2:E:259:THR:N	2:E:262:GLU:HG3	2.13	0.63
2:E:338:MET:HG3	2:E:380:SER:HB2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1542:UNK:N	2:E:1628:UNK:HA	2.14	0.63
1:G:664:UNK:C	1:G:666:UNK:N	2.60	0.63
1:G:1189:ILE:CG2	1:G:1377:MET:SD	2.86	0.63
1:G:1264:ARG:C	1:G:1266:LYS:N	2.50	0.63
1:G:1475:GLU:C	1:G:1478:PRO:HD2	2.17	0.63
2:H:39:LYS:C	2:H:42:PRO:HD2	2.19	0.63
2:H:45:THR:HG23	2:H:46:GLU:OE1	1.99	0.63
2:H:1258:UNK:O	2:H:1260:UNK:N	2.31	0.63
1:A:1089:VAL:O	1:A:1091:ALA:N	2.32	0.63
1:A:1090:LYS:O	1:A:1091:ALA:O	2.16	0.63
1:A:1326:ILE:HG13	1:A:1388:MET:CG	2.28	0.63
1:A:1578:LYS:HE3	1:A:1584:PRO:HB3	1.79	0.63
2:B:851:UNK:C	2:B:853:UNK:H	2.11	0.63
2:B:1585:UNK:C	2:B:1587:UNK:N	2.60	0.63
2:B:1877:ARG:HB3	2:B:1929:LYS:HZ2	1.63	0.63
1:D:493:UNK:C	1:D:495:UNK:N	2.54	0.63
1:D:769:ILE:HB	1:D:823:ILE:HD11	1.79	0.63
1:D:799:ILE:O	1:D:802:MET:HB2	1.99	0.63
1:D:1036:ARG:NE	1:D:1037:TRP:N	2.47	0.63
1:D:1198:TYR:O	1:D:1695:ASN:HB3	1.99	0.63
1:D:1302:VAL:HG23	1:D:1303:GLY:N	2.13	0.63
1:D:1368:PRO:HA	1:D:1545:SER:HA	1.79	0.63
2:E:302:VAL:HG12	2:E:306:ILE:HD11	1.80	0.63
2:E:1453:UNK:C	2:E:1455:UNK:H	2.12	0.63
2:E:1740:THR:HB	2:E:1751:ILE:CG1	2.29	0.63
1:G:398:UNK:C	1:G:400:UNK:N	2.57	0.63
1:G:826:MET:HE1	1:G:847:GLU:HG3	1.78	0.63
1:G:1019:ILE:HD11	1:G:1319:ILE:HG21	1.79	0.63
1:G:1107:GLU:HB3	1:G:1108:PRO:HD2	1.80	0.63
1:G:1650:GLY:O	1:G:1651:GLY:O	2.16	0.63
2:H:87:CYS:CA	2:H:90:GLU:HB3	2.27	0.63
2:H:94:CYS:SG	2:H:95:TYR:N	2.72	0.63
2:H:235:PRO:O	2:H:236:ILE:HB	1.98	0.63
2:H:1821:VAL:CG2	2:H:1822:MET:H	2.12	0.63
2:H:1880:LYS:HD3	2:H:1899:VAL:HG11	1.81	0.63
1:A:901:MET:HE3	1:A:905:LEU:HD23	1.81	0.63
1:A:1188:GLN:HG2	1:A:1352:THR:CG2	2.25	0.63
1:A:1190:PRO:CG	1:A:1379:ALA:HA	2.29	0.63
1:A:1202:ASP:O	1:A:1203:ASP:HB3	1.98	0.63
2:B:215:ILE:CD1	2:B:240:LEU:HD11	2.27	0.63
2:B:813:UNK:O	2:B:815:UNK:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1903:ASP:CG	2:B:1907:LEU:HD21	2.19	0.63
1:D:374:UNK:O	1:D:375:UNK:C	2.46	0.63
1:D:664:UNK:C	1:D:666:UNK:N	2.59	0.63
1:D:1207:GLN:HE21	1:D:1207:GLN:CA	2.12	0.63
1:D:1260:MET:HB3	1:D:1261:PHE:CD2	2.34	0.63
1:D:1423:LYS:HG2	1:D:1424:GLY:H	1.63	0.63
1:D:1532:THR:O	1:D:1534:ASP:N	2.32	0.63
1:D:1697:LEU:O	1:D:1698:PHE:HB3	1.98	0.63
2:E:797:UNK:C	2:E:799:UNK:N	2.61	0.63
2:E:1703:GLY:O	2:E:1704:PHE:CD1	2.51	0.63
1:G:748:LEU:O	1:G:752:ILE:HG13	1.98	0.63
1:G:1110:LEU:HD11	1:G:1188:GLN:N	2.14	0.63
1:G:1168:LEU:HD22	1:G:1169:LYS:N	2.10	0.63
1:G:1169:LYS:NZ	1:G:1170:GLY:O	2.25	0.63
1:G:1408:ALA:H	1:G:1653:ALA:HB2	1.64	0.63
2:H:53:GLU:HG3	2:H:54:PRO:HD2	1.80	0.63
2:H:949:UNK:O	2:H:951:UNK:N	2.32	0.63
1:A:586:UNK:HA	1:A:671:VAL:O	1.99	0.63
1:A:681:THR:OG1	1:A:770:PRO:HA	1.99	0.63
1:A:852:ARG:O	1:A:854:HIS:N	2.32	0.63
1:A:927:ASN:HD21	1:A:931:GLN:H	1.46	0.63
1:A:1207:GLN:O	1:A:1208:VAL:HG22	1.99	0.63
1:A:1462:TRP:O	1:A:1463:VAL:HG23	1.98	0.63
1:D:714:VAL:C	1:D:716:ASP:N	2.52	0.63
1:D:944:ARG:O	1:D:948:VAL:HG23	1.98	0.63
1:D:1030:TRP:CZ2	1:D:1580:LEU:HD11	2.34	0.63
1:D:1062:TYR:CD1	1:D:1063:HIS:N	2.64	0.63
1:D:1062:TYR:HD2	1:D:1693:ILE:HB	1.63	0.63
1:D:1148:HIS:C	1:D:1150:ASP:H	2.02	0.63
1:D:1462:TRP:CE3	1:D:1462:TRP:C	2.71	0.63
2:E:1884:TRP:HB2	2:E:1892:ASN:HD22	1.63	0.63
2:E:1909:THR:HG21	2:E:1927:LEU:CD1	2.28	0.63
1:G:832:THR:HG22	1:G:833:PHE:N	2.13	0.63
1:G:1151:LYS:H	1:G:1151:LYS:HD2	1.62	0.63
1:G:1369:ALA:HA	1:G:1547:LYS:CG	2.29	0.63
1:G:1419:PRO:HD3	1:G:1646:PHE:CD1	2.34	0.63
1:G:1475:GLU:OE2	1:G:1479:SER:HA	1.99	0.63
1:G:1553:GLU:C	1:G:1555:ALA:H	2.02	0.63
2:H:240:LEU:H	2:H:240:LEU:HD12	1.64	0.63
1:A:552:UNK:O	1:A:555:UNK:N	2.32	0.63
1:A:1014:ASP:HB2	1:A:1510:ASN:OD1	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1039:MET:HA	1:A:1039:MET:HE3	1.79	0.63
1:A:1130:ASP:O	1:A:1131:LEU:O	2.16	0.63
1:A:1445:MET:O	1:A:1447:TYR:N	2.31	0.63
1:A:1501:LEU:O	1:A:1504:ALA:HB3	1.98	0.63
2:B:536:ASN:O	2:B:538:ASP:N	2.31	0.63
2:B:1703:GLY:O	2:B:1704:PHE:CD1	2.52	0.63
2:B:1770:LEU:C	2:B:1770:LEU:HD23	2.19	0.63
1:D:1212:THR:HG23	1:D:1283:MET:SD	2.39	0.63
1:D:1625:LEU:HD22	1:D:1625:LEU:O	1.99	0.63
2:E:46:GLU:HG3	2:E:51:ASP:CB	2.27	0.63
2:E:417:SER:C	2:E:418:ASN:HD22	2.02	0.63
2:E:1877:ARG:HB3	2:E:1929:LYS:HZ1	1.64	0.63
2:E:1880:LYS:HD3	2:E:1899:VAL:HG11	1.80	0.63
2:E:2006:UNK:C	2:E:2008:UNK:H	2.11	0.63
1:G:850:PHE:CD2	1:G:864:VAL:HG11	2.34	0.63
1:G:1119:LYS:HG3	1:G:1122:ILE:H	1.62	0.63
1:G:1207:GLN:O	1:G:1208:VAL:HG22	1.99	0.63
1:G:1354:GLU:C	1:G:1356:PHE:H	2.02	0.63
1:G:1455:ARG:HH11	1:G:1455:ARG:HG3	1.62	0.63
2:H:1008:UNK:O	2:H:1009:UNK:C	2.47	0.63
2:H:1573:UNK:O	2:H:1575:UNK:N	2.32	0.63
1:A:950:THR:O	1:A:954:ARG:HG2	1.99	0.62
1:A:1190:PRO:O	1:A:1191:THR:HG23	1.98	0.62
1:A:1280:ILE:HD12	1:A:1280:ILE:H	1.62	0.62
1:A:1475:GLU:C	1:A:1478:PRO:HD2	2.19	0.62
1:A:1538:VAL:O	1:A:1539:ALA:HB3	1.99	0.62
2:B:39:LYS:O	2:B:42:PRO:HD2	1.98	0.62
2:B:52:ASP:HB2	2:B:113:ASP:CG	2.20	0.62
2:B:417:SER:C	2:B:418:ASN:HD22	2.03	0.62
1:D:1187:GLY:H	1:D:1188:GLN:NE2	1.96	0.62
1:D:1376:PHE:O	1:D:1377:MET:CB	2.47	0.62
1:D:1475:GLU:C	1:D:1478:PRO:HD2	2.19	0.62
2:E:40:ILE:O	2:E:41:LEU:HD23	1.99	0.62
2:E:144:ALA:O	2:E:146:PHE:N	2.31	0.62
2:E:215:ILE:CD1	2:E:240:LEU:HD11	2.28	0.62
2:E:319:LEU:CD2	2:E:335:PRO:HG3	2.29	0.62
2:E:1854:MET:HA	2:E:1895:ASN:HB2	1.81	0.62
2:H:40:ILE:O	2:H:41:LEU:HD23	1.99	0.62
2:H:250:VAL:O	2:H:253:ALA:HB3	1.98	0.62
2:H:653:UNK:C	2:H:655:UNK:N	2.55	0.62
2:H:797:UNK:C	2:H:799:UNK:N	2.61	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:710:PHE:CE1	1:A:736:PRO:HD3	2.29	0.62
1:A:752:ILE:HA	1:A:761:LEU:CD2	2.24	0.62
1:A:1060:ILE:C	1:A:1060:ILE:HD12	2.20	0.62
1:A:1114:TYR:OH	1:A:1194:ASN:HA	2.00	0.62
1:A:1376:PHE:H	1:A:1376:PHE:HD1	1.47	0.62
1:A:1680:ARG:O	1:A:1684:ALA:N	2.32	0.62
2:B:240:LEU:HD12	2:B:240:LEU:H	1.64	0.62
2:B:267:LEU:O	2:B:268:LYS:HB2	1.99	0.62
2:B:349:VAL:CG2	2:B:377:LEU:HD13	2.29	0.62
2:B:1751:ILE:O	2:B:1752:PHE:O	2.17	0.62
2:B:1909:THR:HG21	2:B:1927:LEU:CD1	2.29	0.62
1:D:739:GLN:HB3	1:D:794:ILE:CG1	2.24	0.62
1:D:839:TYR:HE1	1:D:843:LYS:HE2	1.63	0.62
1:D:1029:PRO:HD2	1:D:1591:TRP:CH2	2.35	0.62
1:D:1462:TRP:HZ3	1:D:1466:GLU:CB	2.09	0.62
2:E:267:LEU:O	2:E:268:LYS:HB2	1.99	0.62
2:E:345:THR:O	2:E:348:GLN:HB2	1.99	0.62
2:E:949:UNK:O	2:E:951:UNK:N	2.32	0.62
2:E:1724:GLU:HG2	2:E:1726:GLY:N	2.09	0.62
2:E:1826:SER:O	2:E:1829:GLU:HB3	1.99	0.62
1:G:389:UNK:O	1:G:392:UNK:N	2.31	0.62
1:G:1097:ILE:O	1:G:1098:LEU:HD22	1.99	0.62
1:G:1131:LEU:O	1:G:1173:LEU:HB2	1.99	0.62
1:G:1202:ASP:O	1:G:1203:ASP:HB3	1.97	0.62
1:G:1203:ASP:N	1:G:1205:ILE:HG12	2.09	0.62
1:G:1307:THR:HG21	1:G:1586:GLY:HA2	1.81	0.62
1:G:1332:TYR:H	1:G:1587:ALA:CB	2.06	0.62
1:G:1676:LYS:O	1:G:1679:ALA:HB3	1.99	0.62
2:H:310:CYS:HB3	2:H:432:LEU:HD11	1.80	0.62
2:H:1051:UNK:C	2:H:1053:UNK:N	2.59	0.62
2:H:1266:UNK:C	2:H:1268:UNK:N	2.58	0.62
1:A:681:THR:HG22	1:A:771:PHE:O	2.00	0.62
1:A:928:GLY:C	1:A:930:LEU:H	2.00	0.62
1:A:1222:ALA:O	1:A:1225:ALA:HB3	1.99	0.62
1:A:1277:GLU:N	1:A:1277:GLU:OE2	2.32	0.62
1:A:1319:ILE:HA	1:A:1324:ALA:O	1.98	0.62
1:A:1376:PHE:O	1:A:1377:MET:CB	2.46	0.62
1:A:1591:TRP:HA	1:A:1594:ASN:HD22	1.64	0.62
2:B:1854:MET:HA	2:B:1895:ASN:HB2	1.82	0.62
2:B:1871:LEU:HD23	2:B:1872:GLN:N	2.13	0.62
1:D:716:ASP:C	1:D:719:GLN:HB3	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:873:ARG:CG	1:D:874:GLY:H	2.12	0.62
1:D:903:PHE:HA	1:D:906:LEU:CD2	2.27	0.62
1:D:1203:ASP:C	1:D:1205:ILE:N	2.45	0.62
1:D:1203:ASP:N	1:D:1205:ILE:HG12	2.09	0.62
2:E:341:ILE:O	2:E:341:ILE:HG22	1.98	0.62
2:E:843:UNK:C	2:E:845:UNK:N	2.61	0.62
2:E:1751:ILE:O	2:E:1752:PHE:O	2.17	0.62
2:E:1864:ALA:O	2:E:1866:PHE:N	2.32	0.62
2:E:1885:LEU:H	3:F:2:UNK:CB	2.12	0.62
1:G:679:LEU:H	1:G:679:LEU:HD12	1.64	0.62
1:G:1139:GLU:N	1:G:1139:GLU:CD	2.53	0.62
1:G:1150:ASP:HB3	1:G:1151:LYS:HD2	1.81	0.62
1:G:1604:ILE:HG23	1:G:1630:THR:HB	1.81	0.62
2:H:18:HIS:HD2	2:H:86:LEU:HD22	1.62	0.62
2:H:59:GLU:C	2:H:125:ASN:HD22	2.02	0.62
2:H:221:ASN:N	2:H:221:ASN:ND2	2.42	0.62
2:H:267:LEU:O	2:H:268:LYS:HB2	2.00	0.62
2:H:1812:TYR:C	2:H:1814:ALA:H	2.02	0.62
2:B:444:VAL:C	2:B:446:ASN:H	2.03	0.62
2:B:616:UNK:O	2:B:618:UNK:N	2.23	0.62
2:B:1670:GLY:HA2	2:B:1672:GLN:HE22	1.63	0.62
2:B:1674:GLN:NE2	2:B:1712:ASN:HA	2.14	0.62
2:B:1718:THR:CG2	2:B:1765:ARG:HA	2.29	0.62
2:B:1830:VAL:HG13	2:B:1831:VAL:N	2.14	0.62
2:B:1883:GLY:CA	2:B:1894:GLU:HG2	2.29	0.62
1:D:832:THR:HG22	1:D:833:PHE:N	2.14	0.62
1:D:1037:TRP:CD2	1:D:1598:GLN:HG2	2.33	0.62
1:D:1096:SER:O	1:D:1098:LEU:N	2.32	0.62
1:D:1139:GLU:O	1:D:1165:VAL:HG21	1.99	0.62
1:D:1155:PHE:C	1:D:1171:ALA:HB2	2.18	0.62
1:D:1394:LEU:HA	1:D:1673:TYR:CD1	2.34	0.62
1:D:1399:PRO:HG3	1:D:1681:GLU:CD	2.19	0.62
1:D:1532:THR:OG1	1:D:1535:ASP:N	2.33	0.62
2:E:1329:UNK:O	2:E:1333:UNK:CB	2.48	0.62
2:E:1733:TYR:HH	2:E:1761:SER:HA	1.60	0.62
1:G:497:UNK:C	1:G:499:UNK:N	2.60	0.62
1:G:1015:LEU:HD23	1:G:1018:VAL:HG12	1.80	0.62
1:G:1119:LYS:O	1:G:1121:MET:N	2.32	0.62
2:H:157:VAL:HG11	2:H:496:PHE:CE1	2.33	0.62
1:A:714:VAL:C	1:A:716:ASP:N	2.53	0.62
1:A:968:VAL:HG13	2:B:1513:UNK:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1062:TYR:HD2	1:A:1693:ILE:HB	1.63	0.62
1:A:1223:PHE:HD2	1:A:1386:ILE:HD13	1.64	0.62
1:A:1225:ALA:C	1:A:1227:GLY:N	2.52	0.62
2:B:87:CYS:CA	2:B:90:GLU:HB3	2.25	0.62
2:B:242:GLY:HA2	2:B:245:GLN:HG3	1.81	0.62
1:D:389:UNK:O	1:D:392:UNK:N	2.31	0.62
1:D:664:UNK:O	1:D:666:UNK:N	2.32	0.62
1:D:893:VAL:C	1:D:895:THR:H	2.02	0.62
1:D:1259:GLY:CA	1:D:1263:ASP:HB2	2.20	0.62
1:D:1430:ARG:CG	1:D:1431:GLU:N	2.60	0.62
1:D:1688:PHE:O	1:D:1690:ASN:N	2.32	0.62
2:E:273:HIS:HB2	2:E:490:TRP:HZ3	1.64	0.62
2:E:1730:ARG:O	2:E:1732:ASN:N	2.32	0.62
1:G:655:UNK:C	1:G:657:UNK:N	2.59	0.62
2:H:418:ASN:N	2:H:418:ASN:ND2	2.47	0.62
2:H:444:VAL:HA	2:H:449:SER:OG	1.98	0.62
2:H:483:ILE:CG2	2:H:484:ILE:N	2.56	0.62
2:H:1770:LEU:C	2:H:1770:LEU:HD23	2.20	0.62
1:A:664:UNK:O	1:A:666:UNK:N	2.32	0.62
1:A:889:GLU:CA	1:A:893:VAL:HA	2.30	0.62
1:A:1119:LYS:HE3	1:A:1121:MET:HG3	1.81	0.62
2:B:40:ILE:O	2:B:41:LEU:HD23	1.98	0.62
2:B:408:PRO:HG2	2:B:409:PHE:H	1.65	0.62
2:B:995:UNK:C	2:B:997:UNK:N	2.59	0.62
2:B:1764:PHE:N	2:B:1764:PHE:HD2	1.97	0.62
1:D:544:UNK:O	1:D:548:UNK:N	2.33	0.62
1:D:1088:ASP:OD2	1:D:1097:ILE:HD13	2.00	0.62
1:D:1137:SER:HG	1:D:1168:LEU:HD12	1.65	0.62
1:D:1202:ASP:O	1:D:1203:ASP:HB3	1.98	0.62
1:D:1249:SER:HB3	1:D:1301:PRO:HD2	1.81	0.62
2:E:25:ALA:O	2:E:29:ILE:HB	1.99	0.62
2:E:483:ILE:CG2	2:E:484:ILE:N	2.57	0.62
2:E:959:UNK:C	2:E:961:UNK:N	2.57	0.62
1:G:490:UNK:O	1:G:491:UNK:C	2.47	0.62
1:G:1155:PHE:C	1:G:1171:ALA:HB2	2.20	0.62
1:G:1190:PRO:O	1:G:1191:THR:HG23	1.99	0.62
1:G:1343:PHE:O	1:G:1345:ASN:N	2.30	0.62
1:G:1431:GLU:HA	1:G:1521:PRO:HB2	1.80	0.62
2:H:4:TYR:CD1	2:H:5:SER:N	2.67	0.62
2:H:215:ILE:CD1	2:H:240:LEU:HD11	2.30	0.62
1:A:204:UNK:C	1:A:206:UNK:H	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:490:UNK:O	1:A:491:UNK:C	2.47	0.62
1:A:1187:GLY:C	1:A:1188:GLN:NE2	2.52	0.62
1:A:1226:SER:HB3	1:A:1386:ILE:HD11	1.81	0.62
1:A:1362:PRO:HA	1:A:1365:MET:CE	2.30	0.62
1:A:1399:PRO:HG3	1:A:1681:GLU:CD	2.20	0.62
1:A:1427:THR:C	1:A:1429:ALA:N	2.50	0.62
2:B:302:VAL:HG12	2:B:306:ILE:HD11	1.80	0.62
1:D:412:UNK:O	1:D:414:UNK:N	2.33	0.62
1:D:786:SER:O	1:D:789:GLU:N	2.33	0.62
1:D:1208:VAL:O	1:D:1277:GLU:HG2	1.99	0.62
1:D:1243:VAL:CG1	1:D:1324:ALA:HA	2.28	0.62
1:D:1268:GLU:HB3	1:D:1269:PRO:HD2	1.81	0.62
1:D:1376:PHE:CD2	1:D:1584:PRO:HD2	2.35	0.62
1:D:1591:TRP:HA	1:D:1594:ASN:HD22	1.64	0.62
2:E:18:HIS:HD2	2:E:86:LEU:HD22	1.63	0.62
2:E:59:GLU:C	2:E:125:ASN:HD22	2.02	0.62
2:E:87:CYS:CA	2:E:90:GLU:HB3	2.28	0.62
2:E:444:VAL:C	2:E:446:ASN:H	2.01	0.62
2:E:1709:ILE:O	2:E:1771:LEU:HD13	1.99	0.62
1:G:799:ILE:O	1:G:802:MET:HB2	1.99	0.62
1:G:1190:PRO:CG	1:G:1379:ALA:HA	2.29	0.62
1:G:1203:ASP:C	1:G:1205:ILE:N	2.45	0.62
2:H:248:HIS:HB3	2:H:529:VAL:HG11	1.82	0.62
2:H:1883:GLY:HA2	2:H:1894:GLU:CD	2.20	0.62
1:A:758:ASN:HD22	1:A:758:ASN:N	1.95	0.62
1:A:832:THR:HG22	1:A:833:PHE:N	2.14	0.62
1:A:1036:ARG:NE	1:A:1037:TRP:N	2.47	0.62
1:A:1103:ILE:CA	1:A:1106:ILE:HD12	2.26	0.62
1:A:1268:GLU:HB3	1:A:1269:PRO:CD	2.29	0.62
1:A:1343:PHE:O	1:A:1345:ASN:N	2.32	0.62
1:A:1580:LEU:O	1:A:1580:LEU:CG	2.48	0.62
2:B:209:PHE:CE2	2:B:213:LEU:HD22	2.35	0.62
2:B:345:THR:O	2:B:348:GLN:HB2	1.98	0.62
2:B:1625:UNK:HA	2:B:1642:UNK:HA	1.80	0.62
2:B:1663:UNK:HA	2:B:1803:THR:OG1	2.00	0.62
1:D:552:UNK:O	1:D:554:UNK:N	2.20	0.62
1:D:927:ASN:HD21	1:D:931:GLN:H	1.48	0.62
1:D:1110:LEU:HD11	1:D:1188:GLN:N	2.14	0.62
1:D:1118:LYS:HZ2	1:D:1337:GLU:HG3	1.64	0.62
1:D:1144:PHE:O	1:D:1148:HIS:N	2.31	0.62
1:D:1158:PRO:CG	1:D:1159:GLU:H	2.07	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1208:VAL:HG12	1:D:1286:TRP:CH2	2.35	0.62
1:D:1244:GLY:HA3	1:D:1294:SER:OG	1.98	0.62
1:D:1373:ARG:CD	1:D:1547:LYS:HB3	2.29	0.62
1:D:1544:THR:OG1	1:D:1546:THR:HG22	2.00	0.62
2:E:52:ASP:HB2	2:E:113:ASP:CG	2.19	0.62
2:E:53:GLU:HB2	2:E:108:LEU:HD21	1.81	0.62
2:E:1663:UNK:HA	2:E:1803:THR:OG1	1.99	0.62
1:G:714:VAL:C	1:G:716:ASP:N	2.51	0.62
1:G:893:VAL:C	1:G:895:THR:H	2.02	0.62
1:G:1208:VAL:O	1:G:1277:GLU:HG2	2.00	0.62
2:H:1585:UNK:HA	2:H:1588:UNK:CB	2.29	0.62
1:A:525:UNK:O	1:A:527:UNK:N	2.33	0.62
1:A:571:UNK:O	1:A:575:UNK:N	2.33	0.62
1:A:818:ARG:O	1:A:818:ARG:HG2	2.00	0.62
1:A:1131:LEU:O	1:A:1173:LEU:HB2	2.00	0.62
1:A:1323:LYS:O	1:A:1324:ALA:HB2	1.99	0.62
1:A:1341:PHE:O	1:A:1343:PHE:N	2.33	0.62
1:A:1462:TRP:HZ3	1:A:1466:GLU:CB	2.08	0.62
1:A:1464:GLU:CA	1:A:1467:LEU:HD12	2.25	0.62
2:B:267:LEU:CG	2:B:268:LYS:H	2.11	0.62
2:B:1024:UNK:O	2:B:1025:UNK:CB	2.47	0.62
2:B:1585:UNK:HA	2:B:1588:UNK:CB	2.30	0.62
2:B:1689:ASP:HA	2:B:1692:ASN:HB2	1.82	0.62
1:D:717:TYR:O	1:D:719:GLN:N	2.31	0.62
1:D:889:GLU:CA	1:D:893:VAL:HA	2.30	0.62
1:D:1079:LYS:HD2	1:D:1098:LEU:HD22	1.78	0.62
1:D:1307:THR:HG21	1:D:1586:GLY:HA2	1.81	0.62
1:D:1332:TYR:H	1:D:1587:ALA:CB	2.06	0.62
1:D:1455:ARG:HH11	1:D:1455:ARG:HG3	1.64	0.62
1:D:1462:TRP:O	1:D:1463:VAL:HG23	1.99	0.62
2:E:56:THR:CG2	2:E:59:GLU:HG3	2.26	0.62
2:E:1674:GLN:NE2	2:E:1712:ASN:HA	2.15	0.62
2:E:1718:THR:CG2	2:E:1765:ARG:HA	2.29	0.62
1:G:838:MET:HA	1:G:841:GLU:OE1	1.99	0.62
1:G:889:GLU:CA	1:G:893:VAL:HA	2.30	0.62
1:G:993:PRO:HD3	1:G:1681:GLU:CD	2.20	0.62
1:G:1247:SER:O	1:G:1301:PRO:HD2	2.00	0.62
1:G:1277:GLU:N	1:G:1277:GLU:OE2	2.33	0.62
1:G:1462:TRP:O	1:G:1463:VAL:HG23	1.99	0.62
2:H:344:LEU:HD11	2:H:348:GLN:HB3	1.81	0.62
2:H:995:UNK:C	2:H:997:UNK:N	2.61	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1698:PHE:HE1	2:H:1828:VAL:HG21	1.65	0.62
2:H:1703:GLY:O	2:H:1704:PHE:CD1	2.53	0.62
2:H:1751:ILE:O	2:H:1752:PHE:O	2.17	0.62
2:H:1927:LEU:HA	2:H:1930:SER:HB3	1.81	0.62
1:A:873:ARG:CG	1:A:874:GLY:H	2.12	0.62
1:A:1097:ILE:O	1:A:1098:LEU:HD22	1.99	0.62
1:A:1326:ILE:N	1:A:1326:ILE:HD12	2.14	0.62
1:A:1462:TRP:CE3	1:A:1462:TRP:C	2.73	0.62
2:B:18:HIS:O	2:B:22:VAL:HG23	1.99	0.62
2:B:274:SER:C	2:B:483:ILE:HD11	2.20	0.62
2:B:1329:UNK:O	2:B:1333:UNK:CB	2.48	0.62
1:D:385:UNK:O	1:D:388:UNK:CB	2.48	0.62
1:D:818:ARG:O	1:D:818:ARG:HG2	2.00	0.62
1:D:1141:ALA:O	1:D:1143:GLN:N	2.33	0.62
1:D:1223:PHE:CD1	1:D:1231:PRO:HB3	2.35	0.62
1:D:1223:PHE:HD2	1:D:1386:ILE:HD13	1.63	0.62
1:D:1286:TRP:HD1	1:D:1290:LEU:CD1	2.13	0.62
1:D:1413:LYS:HG2	1:D:1414:ILE:H	1.64	0.62
1:D:1522:LEU:O	1:D:1523:ARG:C	2.38	0.62
2:E:408:PRO:CB	2:E:412:ARG:HD2	2.30	0.62
2:E:1696:ASN:O	2:E:1700:ASP:HB2	2.00	0.62
2:E:1821:VAL:CG2	2:E:1822:MET:H	2.11	0.62
1:G:449:UNK:C	1:G:451:UNK:N	2.59	0.62
1:G:493:UNK:O	1:G:494:UNK:C	2.48	0.62
1:G:1111:PHE:HB3	1:G:1114:TYR:CD1	2.35	0.62
1:G:1459:ILE:HG13	1:G:1460:LYS:H	1.65	0.62
1:G:1625:LEU:HD22	1:G:1625:LEU:O	1.99	0.62
2:H:53:GLU:HB2	2:H:108:LEU:HD21	1.81	0.62
2:H:1730:ARG:O	2:H:1732:ASN:N	2.32	0.62
2:H:2040:UNK:HA	2:H:2043:UNK:CB	2.30	0.62
1:A:719:GLN:HG3	1:A:720:SER:N	2.14	0.61
2:B:25:ALA:HB1	2:B:65:LEU:HD11	1.82	0.61
2:B:1370:UNK:O	2:B:1371:UNK:CB	2.48	0.61
2:B:1486:UNK:O	2:B:1510:UNK:HA	2.01	0.61
2:B:1927:LEU:HA	2:B:1930:SER:HB3	1.81	0.61
1:D:901:MET:HE3	1:D:905:LEU:HD23	1.82	0.61
1:D:1178:ALA:O	1:D:1179:LEU:CB	2.48	0.61
1:D:1224:ILE:O	1:D:1224:ILE:HG13	1.99	0.61
1:D:1258:ARG:HG2	1:D:1263:ASP:OD2	2.00	0.61
1:D:1261:PHE:CD2	1:D:1261:PHE:N	2.67	0.61
1:D:1422:GLY:C	1:D:1425:ILE:HB	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:242:GLY:HA2	2:E:245:GLN:HG3	1.82	0.61
2:E:289:TRP:HA	2:E:292:PHE:HB3	1.82	0.61
2:E:569:UNK:CB	2:E:1074:UNK:HA	2.30	0.61
2:E:1773:ALA:O	2:E:1775:GLN:N	2.33	0.61
2:E:1927:LEU:HA	2:E:1930:SER:HB3	1.80	0.61
1:G:525:UNK:O	1:G:528:UNK:N	2.33	0.61
1:G:552:UNK:O	1:G:555:UNK:N	2.33	0.61
1:G:758:ASN:HD22	1:G:758:ASN:N	1.94	0.61
1:G:786:SER:O	1:G:789:GLU:N	2.31	0.61
1:G:853:TRP:CZ2	1:G:859:ALA:HB1	2.34	0.61
1:G:1062:TYR:HD2	1:G:1693:ILE:HB	1.64	0.61
1:G:1119:LYS:HE3	1:G:1121:MET:HG3	1.82	0.61
1:G:1178:ALA:O	1:G:1179:LEU:CB	2.47	0.61
1:G:1376:PHE:O	1:G:1377:MET:CB	2.46	0.61
1:G:1399:PRO:HG3	1:G:1681:GLU:CD	2.19	0.61
1:G:1701:LYS:N	1:G:1701:LYS:HE3	2.14	0.61
2:H:39:LYS:O	2:H:42:PRO:HD2	1.99	0.61
2:H:238:CYS:HA	2:H:275:GLN:HE22	1.64	0.61
2:H:345:THR:O	2:H:348:GLN:HB2	1.99	0.61
2:H:504:PHE:HA	2:H:529:VAL:HG21	1.81	0.61
2:H:2049:UNK:O	2:H:2050:UNK:C	2.48	0.61
1:A:1198:TYR:O	1:A:1695:ASN:HB3	2.00	0.61
1:D:449:UNK:C	1:D:451:UNK:N	2.60	0.61
1:D:571:UNK:O	1:D:575:UNK:N	2.33	0.61
1:D:771:PHE:CE2	1:D:825:PRO:HB3	2.35	0.61
1:D:1323:LYS:O	1:D:1324:ALA:HB2	1.98	0.61
1:D:1454:THR:CG2	1:D:1455:ARG:H	1.93	0.61
1:D:1650:GLY:O	1:D:1651:GLY:O	2.18	0.61
1:D:1717:ASP:O	1:D:1719:LEU:N	2.33	0.61
2:E:39:LYS:C	2:E:42:PRO:HD2	2.21	0.61
2:E:1024:UNK:O	2:E:1025:UNK:CB	2.47	0.61
2:E:1791:ASP:O	2:E:1794:SER:HB3	2.00	0.61
1:G:858:TRP:HE3	1:G:862:LEU:HB2	1.65	0.61
1:G:1144:PHE:HA	1:G:1147:GLN:HB2	1.83	0.61
1:G:1370:THR:HG22	1:G:1613:ASN:O	2.00	0.61
2:H:1884:TRP:HB2	2:H:1892:ASN:HD22	1.65	0.61
1:A:525:UNK:O	1:A:528:UNK:N	2.32	0.61
1:A:753:TYR:CD2	1:A:809:GLN:HG3	2.36	0.61
1:A:1000:GLN:C	1:A:1002:LYS:N	2.53	0.61
1:A:1430:ARG:CG	1:A:1431:GLU:N	2.60	0.61
2:B:31:SER:O	2:B:33:LEU:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:53:GLU:HB2	2:B:108:LEU:HD21	1.81	0.61
2:B:514:VAL:O	2:B:517:HIS:HB3	2.00	0.61
2:B:653:UNK:C	2:B:655:UNK:N	2.55	0.61
2:B:1730:ARG:O	2:B:1732:ASN:N	2.33	0.61
1:D:950:THR:O	1:D:954:ARG:HG2	2.00	0.61
1:D:1112:ASN:HA	1:D:1114:TYR:HB2	1.82	0.61
1:D:1119:LYS:HE3	1:D:1121:MET:HG3	1.82	0.61
1:D:1408:ALA:HB2	1:D:1652:GLN:C	2.21	0.61
2:E:418:ASN:N	2:E:418:ASN:ND2	2.49	0.61
2:E:1585:UNK:HA	2:E:1588:UNK:CB	2.30	0.61
2:E:1792:LEU:HA	2:E:1797:LEU:HD12	1.81	0.61
1:G:525:UNK:O	1:G:527:UNK:N	2.34	0.61
1:G:928:GLY:C	1:G:930:LEU:H	2.02	0.61
1:G:1063:HIS:O	1:G:1065:GLY:N	2.33	0.61
1:G:1268:GLU:HB3	1:G:1269:PRO:HD2	1.80	0.61
1:G:1339:GLY:C	1:G:1340:SER:O	2.38	0.61
1:G:1413:LYS:HG2	1:G:1414:ILE:H	1.66	0.61
1:G:1473:GLU:O	1:G:1474:ALA:C	2.39	0.61
2:H:444:VAL:O	2:H:446:ASN:N	2.33	0.61
2:H:467:ASP:C	2:H:469:ARG:H	2.04	0.61
2:H:1826:SER:O	2:H:1829:GLU:HB3	1.99	0.61
1:A:679:LEU:HD11	1:A:768:ILE:HG12	1.81	0.61
1:A:912:GLU:O	1:A:916:LEU:N	2.29	0.61
1:A:999:LYS:O	1:A:1001:VAL:N	2.30	0.61
1:A:1041:ALA:HB1	1:A:1042:PHE:CE1	2.36	0.61
2:B:319:LEU:CD2	2:B:335:PRO:HG3	2.31	0.61
2:B:408:PRO:CB	2:B:412:ARG:HD2	2.31	0.61
2:B:797:UNK:C	2:B:799:UNK:N	2.61	0.61
1:D:807:LYS:HD3	1:D:807:LYS:C	2.21	0.61
1:D:1119:LYS:O	1:D:1121:MET:N	2.31	0.61
1:D:1243:VAL:HG12	1:D:1325:ARG:N	2.16	0.61
1:D:1246:CYS:CA	1:D:1328:ILE:HG23	2.29	0.61
1:D:1538:VAL:O	1:D:1539:ALA:HB3	2.00	0.61
2:E:241:ILE:CG2	2:E:242:GLY:H	2.13	0.61
2:E:1885:LEU:HD22	2:E:1891:TYR:CD2	2.35	0.61
1:G:428:UNK:C	1:G:430:UNK:N	2.62	0.61
1:G:503:UNK:C	1:G:505:UNK:H	2.11	0.61
1:G:1144:PHE:O	1:G:1148:HIS:N	2.32	0.61
1:G:1162:GLU:OE1	1:G:1163:TYR:CE1	2.53	0.61
1:G:1178:ALA:C	1:G:1179:LEU:CD2	2.69	0.61
1:G:1532:THR:O	1:G:1534:ASP:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:59:GLU:OE1	2:H:122:LEU:HA	2.00	0.61
2:H:1024:UNK:O	2:H:1025:UNK:CB	2.48	0.61
2:H:1734:SER:O	2:H:1737:ILE:O	2.17	0.61
2:H:1740:THR:HB	2:H:1751:ILE:CG1	2.30	0.61
1:A:1056:ILE:HG22	1:A:1057:MET:H	1.64	0.61
1:A:1063:HIS:O	1:A:1065:GLY:N	2.34	0.61
1:A:1083:PRO:HG2	1:A:1084:VAL:H	1.65	0.61
1:A:1286:TRP:HD1	1:A:1290:LEU:CD1	2.13	0.61
2:B:1453:UNK:C	2:B:1455:UNK:H	2.12	0.61
2:B:1696:ASN:O	2:B:1700:ASP:HB2	2.01	0.61
2:B:1698:PHE:HE1	2:B:1828:VAL:HG21	1.63	0.61
2:B:1724:GLU:O	2:B:1729:ILE:HB	2.01	0.61
2:B:1812:TYR:C	2:B:1814:ALA:H	2.04	0.61
1:D:1057:MET:CE	1:D:1106:ILE:HD11	2.31	0.61
1:D:1162:GLU:OE1	1:D:1163:TYR:CE1	2.52	0.61
2:E:274:SER:C	2:E:483:ILE:HD11	2.21	0.61
2:E:1008:UNK:O	2:E:1009:UNK:C	2.47	0.61
2:E:1334:UNK:O	2:E:1335:UNK:O	2.18	0.61
2:E:1764:PHE:N	2:E:1764:PHE:HD2	1.98	0.61
1:G:852:ARG:O	1:G:854:HIS:N	2.33	0.61
1:G:1263:ASP:O	1:G:1264:ARG:CB	2.47	0.61
1:G:1697:LEU:O	1:G:1698:PHE:HB3	2.00	0.61
2:H:63:LYS:HD2	2:H:125:ASN:CG	2.21	0.61
2:H:408:PRO:CB	2:H:412:ARG:HD2	2.30	0.61
2:H:483:ILE:CG2	2:H:484:ILE:HG23	2.30	0.61
2:H:569:UNK:CB	2:H:1074:UNK:HA	2.31	0.61
2:H:1453:UNK:C	2:H:1455:UNK:H	2.13	0.61
1:A:449:UNK:C	1:A:451:UNK:N	2.62	0.61
1:A:786:SER:O	1:A:789:GLU:N	2.33	0.61
1:A:1029:PRO:HD2	1:A:1591:TRP:CH2	2.35	0.61
1:A:1119:LYS:CG	1:A:1121:MET:HB2	2.30	0.61
1:A:1156:GLU:N	1:A:1171:ALA:HB2	2.16	0.61
1:A:1243:VAL:CG1	1:A:1324:ALA:HA	2.30	0.61
1:A:1583:HIS:CG	1:A:1585:LYS:H	2.15	0.61
1:A:1583:HIS:HB2	1:A:1585:LYS:HG2	1.81	0.61
2:B:144:ALA:C	2:B:146:PHE:H	2.04	0.61
2:B:1051:UNK:C	2:B:1053:UNK:N	2.58	0.61
2:B:1791:ASP:O	2:B:1794:SER:HB3	2.00	0.61
1:D:204:UNK:C	1:D:206:UNK:H	2.13	0.61
1:D:993:PRO:HD3	1:D:1681:GLU:CD	2.21	0.61
1:D:1082:GLU:HA	1:D:1085:ASP:OD1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1095:THR:HA	1:D:1099:GLU:HB2	1.83	0.61
1:D:1241:SER:C	1:D:1243:VAL:H	2.03	0.61
1:D:1326:ILE:HD12	1:D:1326:ILE:N	2.16	0.61
1:D:1473:GLU:O	1:D:1474:ALA:C	2.38	0.61
1:D:1607:GLY:O	1:D:1610:ASN:ND2	2.34	0.61
1:D:1676:LYS:O	1:D:1679:ALA:HB3	2.00	0.61
2:E:267:LEU:CG	2:E:268:LYS:H	2.13	0.61
2:E:339:LEU:O	2:E:378:VAL:HA	2.00	0.61
2:E:1685:LYS:O	2:E:1688:GLN:HB3	2.01	0.61
2:E:1789:PHE:O	2:E:1792:LEU:N	2.33	0.61
2:E:1966:UNK:HA	2:E:1970:UNK:CB	2.30	0.61
1:G:1232:TYR:C	1:G:1234:MET:H	2.03	0.61
1:G:1326:ILE:HG13	1:G:1388:MET:CG	2.30	0.61
1:G:1352:THR:O	1:G:1353:LEU:CB	2.48	0.61
1:G:1427:THR:C	1:G:1429:ALA:N	2.48	0.61
2:H:144:ALA:O	2:H:146:PHE:N	2.32	0.61
2:H:273:HIS:HB2	2:H:490:TRP:HZ3	1.64	0.61
2:H:1773:ALA:O	2:H:1775:GLN:N	2.34	0.61
1:A:586:UNK:CB	1:A:671:VAL:N	2.61	0.61
1:A:1105:LEU:HD22	1:A:1111:PHE:CZ	2.35	0.61
1:A:1522:LEU:O	1:A:1523:ARG:C	2.39	0.61
2:B:53:GLU:HG3	2:B:54:PRO:HD2	1.81	0.61
2:B:1397:UNK:O	2:B:1398:UNK:C	2.48	0.61
1:D:905:LEU:HA	1:D:908:LEU:HB3	1.83	0.61
1:D:1418:VAL:HG12	1:D:1419:PRO:HA	1.83	0.61
2:E:1485:UNK:HA	2:E:1511:UNK:O	2.01	0.61
1:G:204:UNK:C	1:G:206:UNK:H	2.12	0.61
1:G:679:LEU:HD13	1:G:679:LEU:O	2.00	0.61
1:G:1095:THR:HA	1:G:1099:GLU:HB2	1.82	0.61
1:G:1261:PHE:N	1:G:1261:PHE:CD2	2.68	0.61
1:G:1464:GLU:CA	1:G:1467:LEU:HD12	2.25	0.61
1:G:1522:LEU:O	1:G:1523:ARG:C	2.39	0.61
1:G:1680:ARG:O	1:G:1684:ALA:N	2.34	0.61
2:H:274:SER:C	2:H:483:ILE:HD11	2.20	0.61
2:H:583:UNK:O	2:H:584:UNK:CB	2.48	0.61
2:H:1877:ARG:HB3	2:H:1929:LYS:HZ3	1.62	0.61
2:H:1885:LEU:HD22	2:H:1891:TYR:CD2	2.36	0.61
1:A:838:MET:HA	1:A:841:GLU:OE1	2.01	0.61
1:A:993:PRO:HD3	1:A:1681:GLU:CD	2.21	0.61
1:A:1178:ALA:O	1:A:1179:LEU:CB	2.49	0.61
1:A:1308:SER:CB	1:A:1590:ALA:H	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:717:TYR:HD2	1:D:718:TYR:CD1	2.19	0.61
1:D:1062:TYR:CE2	1:D:1693:ILE:HD12	2.31	0.61
1:D:1144:PHE:CD1	1:D:1145:LYS:N	2.68	0.61
1:D:1190:PRO:O	1:D:1191:THR:HG23	2.01	0.61
1:D:1263:ASP:O	1:D:1264:ARG:CB	2.49	0.61
1:D:1325:ARG:HB2	1:D:1389:GLN:HB2	1.83	0.61
1:D:1339:GLY:O	1:D:1341:PHE:O	2.19	0.61
1:G:380:UNK:O	1:G:383:UNK:N	2.34	0.61
1:G:529:UNK:O	1:G:533:UNK:N	2.34	0.61
1:G:705:VAL:HG11	1:G:718:TYR:CE2	2.36	0.61
1:G:1247:SER:O	1:G:1301:PRO:CD	2.48	0.61
1:G:1448:ARG:CA	1:G:1451:GLN:HB3	2.31	0.61
1:G:1455:ARG:HG3	1:G:1459:ILE:CG2	2.31	0.61
1:G:1494:HIS:O	1:G:1497:ALA:HB3	2.01	0.61
1:G:1615:ASP:OD2	1:G:1617:ILE:HG12	2.01	0.61
2:H:620:UNK:C	2:H:622:UNK:N	2.63	0.61
2:H:1585:UNK:C	2:H:1587:UNK:N	2.61	0.61
2:H:1674:GLN:NE2	2:H:1712:ASN:HA	2.15	0.61
2:H:1718:THR:CG2	2:H:1765:ARG:HA	2.30	0.61
1:A:493:UNK:O	1:A:494:UNK:C	2.48	0.61
1:A:1334:ASP:CG	1:A:1335:PHE:H	2.04	0.61
1:A:1351:ASN:ND2	1:A:1353:LEU:O	2.33	0.61
1:A:1419:PRO:HD3	1:A:1646:PHE:CD1	2.36	0.61
1:A:1685:TYR:CD1	1:A:1685:TYR:O	2.54	0.61
2:B:59:GLU:C	2:B:125:ASN:HD22	2.04	0.61
2:B:63:LYS:HD2	2:B:125:ASN:ND2	2.16	0.61
2:B:98:GLY:C	2:B:100:ASP:H	2.04	0.61
2:B:569:UNK:CB	2:B:1074:UNK:HA	2.31	0.61
2:B:949:UNK:O	2:B:951:UNK:N	2.34	0.61
2:B:1377:UNK:HA	2:B:1391:UNK:HA	1.83	0.61
2:B:1709:ILE:O	2:B:1771:LEU:HD13	2.00	0.61
2:B:1821:VAL:CG2	2:B:1822:MET:H	2.11	0.61
2:B:1885:LEU:HD22	2:B:1891:TYR:CD2	2.36	0.61
2:B:2006:UNK:C	2:B:2008:UNK:H	2.13	0.61
1:D:1060:ILE:HD12	1:D:1060:ILE:C	2.21	0.61
1:D:1334:ASP:CG	1:D:1335:PHE:H	2.04	0.61
1:D:1354:GLU:C	1:D:1356:PHE:H	2.03	0.61
1:D:1536:LEU:H	1:D:1536:LEU:CD1	2.07	0.61
2:E:1740:THR:O	2:E:1750:LYS:HA	2.01	0.61
1:G:873:ARG:CG	1:G:874:GLY:H	2.13	0.61
1:G:884:ILE:HG22	1:G:887:GLY:HA3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1084:VAL:O	1:G:1085:ASP:C	2.39	0.61
1:G:1207:GLN:HE21	1:G:1207:GLN:CA	2.12	0.61
1:G:1640:SER:HB2	1:G:1654:ILE:HB	1.82	0.61
2:H:408:PRO:HG2	2:H:409:PHE:H	1.65	0.61
2:H:1724:GLU:O	2:H:1729:ILE:HB	2.01	0.61
1:A:1259:GLY:CA	1:A:1263:ASP:HB2	2.25	0.61
1:A:1423:LYS:HG2	1:A:1424:GLY:H	1.65	0.61
2:B:1008:UNK:O	2:B:1009:UNK:C	2.48	0.61
2:B:1431:UNK:O	2:B:1432:UNK:O	2.19	0.61
2:B:1983:UNK:C	2:B:1985:UNK:N	2.63	0.61
1:D:380:UNK:O	1:D:383:UNK:N	2.34	0.61
1:D:586:UNK:HA	1:D:671:VAL:O	2.00	0.61
1:D:1022:THR:O	1:D:1401:TYR:HE2	1.84	0.61
1:D:1118:LYS:CE	1:D:1337:GLU:HG3	2.31	0.61
1:D:1659:ASP:HA	1:D:1662:TYR:CE2	2.36	0.61
2:E:56:THR:N	2:E:57:PRO:CD	2.64	0.61
2:E:159:ILE:HD12	2:E:501:ILE:HG21	1.82	0.61
2:E:504:PHE:HA	2:E:529:VAL:HG21	1.83	0.61
2:E:1305:UNK:O	2:E:1306:UNK:C	2.49	0.61
2:E:1397:UNK:O	2:E:1398:UNK:C	2.49	0.61
1:G:374:UNK:O	1:G:375:UNK:C	2.49	0.61
1:G:468:UNK:O	1:G:470:UNK:N	2.34	0.61
1:G:1241:SER:C	1:G:1243:VAL:H	2.04	0.61
1:G:1260:MET:HB3	1:G:1261:PHE:CD2	2.36	0.61
1:G:1342:GLU:N	1:G:1345:ASN:HB2	2.16	0.61
1:G:1354:GLU:C	1:G:1356:PHE:N	2.54	0.61
2:H:63:LYS:HD2	2:H:125:ASN:ND2	2.16	0.61
2:H:71:LEU:O	2:H:72:VAL:HG13	2.01	0.61
2:H:1709:ILE:O	2:H:1771:LEU:HD13	2.01	0.61
1:A:716:ASP:C	1:A:719:GLN:HB3	2.20	0.60
1:A:1139:GLU:CD	1:A:1139:GLU:N	2.54	0.60
1:A:1455:ARG:HH11	1:A:1455:ARG:HG3	1.65	0.60
1:A:1553:GLU:HB2	1:A:1644:PHE:HE2	1.66	0.60
1:A:1659:ASP:HA	1:A:1662:TYR:CE2	2.36	0.60
1:A:1743:SER:O	1:A:1744:TYR:CB	2.48	0.60
1:D:525:UNK:O	1:D:527:UNK:N	2.34	0.60
1:D:796:LEU:O	1:D:800:LEU:HD23	2.01	0.60
1:D:910:THR:OG1	1:D:911:PRO:HD2	2.01	0.60
1:D:1139:GLU:CD	1:D:1139:GLU:N	2.53	0.60
1:D:1194:ASN:O	1:D:1195:ALA:HB2	1.99	0.60
1:D:1475:GLU:OE2	1:D:1479:SER:HA	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1494:HIS:O	1:D:1497:ALA:HB3	2.00	0.60
2:E:444:VAL:O	2:E:446:ASN:N	2.33	0.60
2:E:2040:UNK:HA	2:E:2043:UNK:CB	2.31	0.60
1:G:368:UNK:C	1:G:370:UNK:N	2.63	0.60
1:G:1060:ILE:C	1:G:1060:ILE:HD12	2.20	0.60
1:G:1418:VAL:HG12	1:G:1419:PRO:HA	1.83	0.60
1:G:1448:ARG:HD2	1:G:1448:ARG:O	2.01	0.60
1:G:1551:LYS:O	1:G:1553:GLU:N	2.34	0.60
1:G:1591:TRP:HA	1:G:1594:ASN:HD22	1.65	0.60
1:G:1688:PHE:O	1:G:1690:ASN:N	2.34	0.60
2:H:209:PHE:CE2	2:H:213:LEU:HD22	2.36	0.60
2:H:351:ASP:HA	2:H:354:ASN:HD22	1.65	0.60
2:H:514:VAL:O	2:H:517:HIS:HB3	2.00	0.60
1:A:428:UNK:C	1:A:430:UNK:N	2.62	0.60
1:A:807:LYS:HD3	1:A:807:LYS:C	2.21	0.60
1:A:1082:GLU:HA	1:A:1085:ASP:OD1	2.01	0.60
1:A:1541:PHE:HE2	1:A:1554:SER:HG	1.47	0.60
2:B:41:LEU:H	2:B:42:PRO:CD	2.14	0.60
2:B:144:ALA:C	2:B:146:PHE:N	2.54	0.60
2:B:1676:MET:O	2:B:1678:MET:N	2.34	0.60
2:B:1773:ALA:O	2:B:1775:GLN:N	2.34	0.60
2:E:63:LYS:HD2	2:E:125:ASN:CG	2.21	0.60
2:E:209:PHE:CE2	2:E:213:LEU:HD22	2.36	0.60
2:E:1680:LEU:O	2:E:1683:THR:N	2.34	0.60
2:E:1734:SER:O	2:E:1737:ILE:O	2.19	0.60
1:G:586:UNK:CB	1:G:671:VAL:N	2.63	0.60
1:G:950:THR:O	1:G:954:ARG:HG2	2.01	0.60
1:G:1133:PRO:O	1:G:1134:PHE:CD1	2.54	0.60
1:G:1240:VAL:HG13	1:G:1242:GLU:HB3	1.83	0.60
1:G:1302:VAL:HG23	1:G:1303:GLY:N	2.15	0.60
1:G:1320:LEU:HG	1:G:1321:SER:N	2.17	0.60
1:G:1351:ASN:O	1:G:1353:LEU:O	2.19	0.60
1:G:1538:VAL:O	1:G:1539:ALA:HB3	2.01	0.60
2:H:46:GLU:HG3	2:H:51:ASP:CB	2.27	0.60
1:A:1241:SER:C	1:A:1243:VAL:H	2.03	0.60
1:A:1459:ILE:HG13	1:A:1460:LYS:H	1.65	0.60
1:A:1473:GLU:O	1:A:1474:ALA:C	2.39	0.60
1:A:1562:LYS:C	1:A:1564:LEU:H	2.05	0.60
2:B:25:ALA:O	2:B:29:ILE:HB	2.00	0.60
2:B:63:LYS:HD2	2:B:125:ASN:CG	2.22	0.60
2:B:1864:ALA:O	2:B:1866:PHE:N	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:525:UNK:O	1:D:528:UNK:N	2.34	0.60
1:D:552:UNK:O	1:D:555:UNK:N	2.34	0.60
1:D:679:LEU:HD13	1:D:679:LEU:O	2.01	0.60
1:D:905:LEU:O	1:D:908:LEU:N	2.34	0.60
1:D:1038:GLU:OE1	1:D:1045:PHE:HA	2.01	0.60
1:D:1131:LEU:O	1:D:1173:LEU:HB2	2.01	0.60
1:D:1354:GLU:C	1:D:1356:PHE:N	2.53	0.60
1:D:1426:LEU:CD1	1:D:1650:GLY:HA3	2.31	0.60
2:E:310:CYS:CB	2:E:432:LEU:HD11	2.31	0.60
2:E:1703:GLY:O	2:E:1704:PHE:CB	2.49	0.60
2:E:1703:GLY:O	2:E:1704:PHE:HD1	1.85	0.60
1:G:752:ILE:HA	1:G:761:LEU:CD2	2.24	0.60
1:G:1020:VAL:HG11	1:G:1400:ILE:HB	1.83	0.60
1:G:1114:TYR:OH	1:G:1194:ASN:HA	2.01	0.60
1:G:1216:LEU:O	1:G:1217:VAL:C	2.39	0.60
2:H:25:ALA:HB1	2:H:65:LEU:HD11	1.82	0.60
2:H:617:UNK:O	2:H:652:UNK:O	2.19	0.60
2:H:1291:UNK:CB	2:H:1369:UNK:H	2.14	0.60
2:H:1329:UNK:O	2:H:1333:UNK:CB	2.49	0.60
1:A:678:VAL:HG13	1:A:767:ALA:O	2.01	0.60
1:A:710:PHE:HD2	1:A:711:SER:H	1.50	0.60
1:A:899:LYS:C	1:A:901:MET:N	2.54	0.60
1:A:1302:VAL:HG23	1:A:1303:GLY:N	2.16	0.60
1:A:1364:GLU:C	1:A:1366:SER:H	2.04	0.60
2:B:1295:UNK:C	2:B:1297:UNK:N	2.63	0.60
2:B:1789:PHE:O	2:B:1792:LEU:N	2.35	0.60
2:B:1883:GLY:HA2	2:B:1894:GLU:CD	2.22	0.60
1:D:1184:LEU:HD22	1:D:1341:PHE:CD2	2.31	0.60
1:D:1276:GLN:O	1:D:1279:PHE:HD2	1.84	0.60
1:D:1326:ILE:HG13	1:D:1388:MET:SD	2.42	0.60
1:D:1419:PRO:HD3	1:D:1646:PHE:HD1	1.66	0.60
1:D:1697:LEU:HD12	1:D:1697:LEU:N	2.09	0.60
2:E:1173:UNK:CB	2:E:1180:UNK:HA	2.31	0.60
2:E:1676:MET:O	2:E:1678:MET:N	2.34	0.60
2:E:1770:LEU:C	2:E:1770:LEU:HD23	2.22	0.60
1:G:807:LYS:HD3	1:G:807:LYS:C	2.21	0.60
1:G:1041:ALA:HB1	1:G:1042:PHE:CE1	2.36	0.60
1:G:1232:TYR:O	1:G:1234:MET:N	2.33	0.60
1:G:1389:GLN:O	1:G:1390:ALA:HB3	2.01	0.60
1:G:1420:ALA:O	1:G:1421:PRO:C	2.40	0.60
1:A:893:VAL:C	1:A:895:THR:H	2.04	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1111:PHE:HB3	1:A:1114:TYR:CD1	2.37	0.60
1:A:1144:PHE:O	1:A:1148:HIS:N	2.33	0.60
1:A:1253:GLY:O	1:A:1254:VAL:O	2.18	0.60
1:A:1340:SER:C	1:A:1341:PHE:O	2.34	0.60
1:A:1717:ASP:O	1:A:1719:LEU:N	2.34	0.60
2:B:56:THR:N	2:B:57:PRO:CD	2.64	0.60
2:B:197:GLU:C	2:B:199:ILE:H	2.05	0.60
1:D:644:UNK:O	1:D:646:UNK:N	2.35	0.60
1:D:1299:LYS:HZ3	1:D:1323:LYS:NZ	1.99	0.60
1:D:1403:ILE:C	1:D:1655:VAL:HG22	2.21	0.60
1:D:1701:LYS:HE3	1:D:1701:LYS:N	2.17	0.60
2:E:272:GLY:HA3	2:E:276:GLY:O	2.00	0.60
2:E:1377:UNK:HA	2:E:1391:UNK:HA	1.83	0.60
2:E:1778:GLN:HE22	2:E:1834:ARG:HD3	1.66	0.60
2:E:1812:TYR:C	2:E:1814:ALA:H	2.04	0.60
1:G:899:LYS:C	1:G:901:MET:N	2.54	0.60
1:G:1036:ARG:NE	1:G:1037:TRP:N	2.49	0.60
1:G:1112:ASN:ND2	1:G:1117:GLU:O	2.35	0.60
1:G:1422:GLY:C	1:G:1425:ILE:HB	2.22	0.60
1:G:1589:GLY:HA2	1:G:1592:MET:HE3	1.84	0.60
2:H:1605:UNK:C	2:H:1607:UNK:H2	2.14	0.60
2:H:1834:ARG:HG3	2:H:1834:ARG:NH1	2.16	0.60
2:H:1916:PHE:O	2:H:1917:ILE:HD13	2.02	0.60
1:A:655:UNK:C	1:A:657:UNK:N	2.61	0.60
1:A:705:VAL:HG11	1:A:718:TYR:CE2	2.36	0.60
1:A:1351:ASN:O	1:A:1353:LEU:O	2.20	0.60
2:B:259:THR:N	2:B:262:GLU:HG3	2.15	0.60
2:B:2040:UNK:HA	2:B:2043:UNK:CB	2.31	0.60
1:D:1000:GLN:C	1:D:1002:LYS:N	2.54	0.60
1:D:1029:PRO:HG2	1:D:1581:THR:HG23	1.84	0.60
1:D:1052:GLU:O	1:D:1056:ILE:HG13	2.02	0.60
1:D:1448:ARG:CA	1:D:1451:GLN:HB3	2.31	0.60
1:D:1459:ILE:HG13	1:D:1460:LYS:H	1.66	0.60
2:E:77:VAL:HG12	2:E:78:GLY:N	2.17	0.60
2:E:450:PHE:CD1	2:E:451:ASN:N	2.63	0.60
2:E:467:ASP:C	2:E:469:ARG:H	2.05	0.60
2:E:1715:VAL:CG2	2:E:1770:LEU:H	2.14	0.60
1:G:839:TYR:CE1	1:G:843:LYS:HE2	2.36	0.60
1:G:1029:PRO:HD2	1:G:1591:TRP:CH2	2.36	0.60
1:G:1243:VAL:CG1	1:G:1324:ALA:HA	2.29	0.60
1:G:1423:LYS:HG2	1:G:1424:GLY:H	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1740:THR:O	2:H:1750:LYS:HA	2.02	0.60
1:A:905:LEU:O	1:A:908:LEU:N	2.35	0.60
1:A:1015:LEU:HD23	1:A:1018:VAL:HG12	1.84	0.60
1:A:1208:VAL:O	1:A:1277:GLU:HG2	2.02	0.60
1:A:1268:GLU:HB3	1:A:1269:PRO:HD2	1.84	0.60
1:A:1408:ALA:H	1:A:1653:ALA:HB2	1.66	0.60
1:A:1456:GLU:H	1:A:1459:ILE:HG13	1.66	0.60
1:A:1573:ILE:HG23	1:A:1624:VAL:CG1	2.31	0.60
1:A:1641:ILE:H	1:A:1641:ILE:CD1	2.01	0.60
2:B:289:TRP:HA	2:B:292:PHE:HB3	1.82	0.60
2:B:1685:LYS:O	2:B:1688:GLN:HB3	2.02	0.60
2:B:1734:SER:O	2:B:1737:ILE:O	2.20	0.60
1:D:497:UNK:C	1:D:499:UNK:N	2.61	0.60
1:D:705:VAL:HG11	1:D:718:TYR:CE2	2.37	0.60
1:D:1039:MET:HA	1:D:1039:MET:HE3	1.84	0.60
1:D:1319:ILE:HA	1:D:1324:ALA:O	2.02	0.60
1:D:1455:ARG:HG3	1:D:1459:ILE:CG2	2.31	0.60
2:E:620:UNK:C	2:E:622:UNK:N	2.63	0.60
2:E:775:UNK:O	2:E:776:UNK:O	2.20	0.60
2:E:1585:UNK:C	2:E:1587:UNK:N	2.60	0.60
1:G:385:UNK:O	1:G:388:UNK:CB	2.49	0.60
1:G:544:UNK:O	1:G:548:UNK:N	2.35	0.60
2:H:91:PHE:CZ	2:H:101:ILE:HD11	2.37	0.60
2:H:213:LEU:O	2:H:215:ILE:HG13	2.01	0.60
2:H:1591:UNK:C	2:H:1593:UNK:N	2.65	0.60
2:H:2006:UNK:C	2:H:2008:UNK:H	2.14	0.60
1:A:1118:LYS:CE	1:A:1337:GLU:HG3	2.32	0.60
1:A:1240:VAL:HG13	1:A:1242:GLU:HB3	1.83	0.60
1:A:1243:VAL:HG12	1:A:1325:ARG:N	2.16	0.60
1:A:1370:THR:HG22	1:A:1613:ASN:O	2.01	0.60
1:A:1448:ARG:CA	1:A:1451:GLN:HB3	2.30	0.60
2:B:504:PHE:HA	2:B:529:VAL:HG21	1.82	0.60
2:B:775:UNK:O	2:B:776:UNK:O	2.19	0.60
2:B:2049:UNK:O	2:B:2050:UNK:C	2.49	0.60
1:D:712:LYS:HE2	1:D:716:ASP:OD2	2.01	0.60
1:D:752:ILE:HA	1:D:761:LEU:CD2	2.23	0.60
1:D:1083:PRO:HG2	1:D:1084:VAL:H	1.67	0.60
1:D:1159:GLU:C	1:D:1166:LYS:HD3	2.21	0.60
1:D:1197:THR:HA	1:D:1200:ILE:CG2	2.32	0.60
1:D:1362:PRO:HA	1:D:1365:MET:CE	2.32	0.60
1:D:1421:PRO:HG2	1:D:1549:ASN:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:91:PHE:CZ	2:E:101:ILE:HD11	2.37	0.60
2:E:350:GLN:O	2:E:353:VAL:N	2.34	0.60
1:G:1021:VAL:HG11	1:G:1597:LEU:CD1	2.32	0.60
1:G:1657:HIS:CG	1:G:1658:PRO:HD2	2.36	0.60
2:H:156:LEU:HD12	2:H:500:HIS:HB2	1.84	0.60
2:H:310:CYS:CB	2:H:432:LEU:HD11	2.31	0.60
2:H:1346:UNK:O	2:H:1348:UNK:N	2.35	0.60
2:H:1676:MET:O	2:H:1678:MET:N	2.35	0.60
2:H:1689:ASP:HA	2:H:1692:ASN:HB2	1.83	0.60
2:H:1695:ASP:CG	2:H:1705:SER:HB2	2.22	0.60
1:A:1105:LEU:HB3	1:A:1111:PHE:CE2	2.36	0.60
1:A:1191:THR:HB	1:A:1193:TRP:CZ3	2.37	0.60
1:A:1257:LEU:O	1:A:1257:LEU:HD23	2.02	0.60
1:A:1307:THR:HG21	1:A:1586:GLY:HA2	1.82	0.60
1:A:1448:ARG:O	1:A:1448:ARG:HD2	2.01	0.60
2:B:1737:ILE:HD13	2:B:1738:PHE:H	1.66	0.60
2:B:1834:ARG:HG3	2:B:1834:ARG:NH1	2.17	0.60
2:B:1882:THR:HB	2:B:1885:LEU:HD21	1.84	0.60
2:B:1884:TRP:HB2	2:B:1892:ASN:HD22	1.65	0.60
1:D:574:UNK:C	1:D:576:UNK:N	2.63	0.60
1:D:655:UNK:C	1:D:657:UNK:N	2.61	0.60
1:D:925:ASP:C	1:D:926:LEU:HD23	2.22	0.60
1:D:1020:VAL:HG11	1:D:1400:ILE:HB	1.83	0.60
1:D:1041:ALA:HB1	1:D:1042:PHE:CE1	2.36	0.60
1:D:1067:LEU:CD2	1:D:1074:GLY:N	2.65	0.60
1:D:1341:PHE:O	1:D:1343:PHE:N	2.35	0.60
1:D:1553:GLU:C	1:D:1555:ALA:H	2.05	0.60
2:E:1878:VAL:HB	2:E:1898:TYR:CE1	2.37	0.60
2:E:2049:UNK:O	2:E:2050:UNK:C	2.50	0.60
1:G:905:LEU:HA	1:G:908:LEU:HB3	1.84	0.60
1:G:1223:PHE:CD1	1:G:1231:PRO:HB3	2.36	0.60
1:G:1364:GLU:C	1:G:1366:SER:H	2.05	0.60
1:G:1409:THR:HG23	1:G:1409:THR:O	2.02	0.60
2:H:33:LEU:O	2:H:37:PHE:HB2	2.02	0.60
2:H:159:ILE:HD12	2:H:501:ILE:HG21	1.84	0.60
2:H:197:GLU:C	2:H:199:ILE:H	2.05	0.60
2:H:1377:UNK:HA	2:H:1391:UNK:HA	1.83	0.60
1:A:529:UNK:O	1:A:533:UNK:N	2.35	0.60
1:A:1080:THR:O	1:A:1081:LYS:C	2.40	0.60
1:A:1118:LYS:HG3	1:A:1120:GLU:HG2	1.84	0.60
1:A:1194:ASN:O	1:A:1195:ALA:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1208:VAL:HG12	1:A:1286:TRP:CH2	2.37	0.60
1:A:1421:PRO:HG2	1:A:1549:ASN:HB2	1.84	0.60
1:A:1489:ARG:O	1:A:1493:ILE:HG23	2.02	0.60
1:A:1532:THR:O	1:A:1534:ASP:N	2.34	0.60
2:B:1305:UNK:O	2:B:1306:UNK:C	2.50	0.60
2:B:1346:UNK:O	2:B:1348:UNK:N	2.35	0.60
2:B:1720:HIS:HB3	2:B:1763:THR:HG23	1.84	0.60
2:B:1752:PHE:O	2:B:1753:LYS:O	2.20	0.60
2:B:1764:PHE:O	2:B:1765:ARG:HB3	2.02	0.60
1:D:791:ALA:O	1:D:795:MET:N	2.32	0.60
1:D:1168:LEU:HD22	1:D:1169:LYS:N	2.13	0.60
1:D:1320:LEU:HG	1:D:1321:SER:N	2.17	0.60
1:D:1743:SER:O	1:D:1744:TYR:CB	2.49	0.60
2:E:197:GLU:C	2:E:199:ILE:H	2.04	0.60
2:E:213:LEU:O	2:E:215:ILE:HG13	2.02	0.60
1:G:1038:GLU:OE1	1:G:1045:PHE:HA	2.02	0.60
1:G:1062:TYR:CE2	1:G:1693:ILE:HD12	2.31	0.60
1:G:1082:GLU:HA	1:G:1085:ASP:OD1	2.02	0.60
1:G:1421:PRO:HG2	1:G:1549:ASN:HB2	1.83	0.60
1:G:1524:GLY:O	1:G:1527:ALA:HB3	2.02	0.60
1:G:1677:VAL:C	1:G:1679:ALA:H	2.05	0.60
2:H:56:THR:CG2	2:H:59:GLU:HG3	2.25	0.60
2:H:1882:THR:HB	2:H:1885:LEU:HD21	1.84	0.60
1:A:715:THR:HG21	1:A:1364:GLU:OE2	2.02	0.59
1:A:1067:LEU:HD22	1:A:1067:LEU:C	2.22	0.59
1:A:1144:PHE:HA	1:A:1147:GLN:HB2	1.84	0.59
1:A:1145:LYS:O	1:A:1148:HIS:HB3	2.01	0.59
1:A:1705:PRO:HG2	1:A:1706:TYR:H	1.67	0.59
2:B:273:HIS:HB2	2:B:490:TRP:HZ3	1.67	0.59
2:B:418:ASN:N	2:B:418:ASN:ND2	2.50	0.59
2:B:2011:UNK:C	2:B:2013:UNK:N	2.61	0.59
1:D:753:TYR:CD2	1:D:809:GLN:HG3	2.36	0.59
1:D:1222:ALA:O	1:D:1225:ALA:HB3	2.01	0.59
1:D:1370:THR:HG22	1:D:1613:ASN:O	2.02	0.59
2:E:31:SER:O	2:E:33:LEU:N	2.34	0.59
2:E:39:LYS:O	2:E:42:PRO:HD2	2.02	0.59
2:E:299:ALA:O	2:E:302:VAL:HB	2.02	0.59
2:E:593:UNK:O	2:E:595:UNK:N	2.34	0.59
2:E:1346:UNK:O	2:E:1348:UNK:N	2.35	0.59
2:E:1370:UNK:O	2:E:1371:UNK:CB	2.50	0.59
1:G:586:UNK:HA	1:G:671:VAL:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:930:LEU:O	1:G:933:VAL:HG23	2.01	0.59
1:G:1238:VAL:HA	1:G:1721:ARG:H	1.67	0.59
1:G:1743:SER:O	1:G:1744:TYR:HB3	2.02	0.59
2:H:49:ALA:N	2:H:118:LYS:NZ	2.50	0.59
2:H:1696:ASN:O	2:H:1700:ASP:HB2	2.01	0.59
2:H:1909:THR:HG21	2:H:1927:LEU:CD1	2.31	0.59
1:A:380:UNK:O	1:A:383:UNK:N	2.35	0.59
1:A:769:ILE:HB	1:A:823:ILE:HD11	1.83	0.59
1:A:808:LYS:HE3	1:A:808:LYS:CA	2.29	0.59
1:A:910:THR:OG1	1:A:911:PRO:HD2	2.01	0.59
1:A:1132:GLU:N	1:A:1133:PRO:CD	2.64	0.59
1:A:1258:ARG:HG2	1:A:1263:ASP:OD2	2.02	0.59
1:A:1464:GLU:HA	1:A:1467:LEU:CD1	2.27	0.59
1:A:1541:PHE:CG	1:A:1576:PHE:HE1	2.19	0.59
2:B:33:LEU:O	2:B:37:PHE:HB2	2.02	0.59
2:B:71:LEU:O	2:B:72:VAL:HG13	2.02	0.59
2:B:1703:GLY:O	2:B:1704:PHE:HD1	1.85	0.59
2:B:1720:HIS:C	2:B:1721:PHE:CD1	2.75	0.59
2:B:2001:UNK:C	2:B:2003:UNK:N	2.66	0.59
1:D:1119:LYS:CG	1:D:1121:MET:HB2	2.31	0.59
1:D:1236:LYS:O	1:D:1237:TYR:HD1	1.85	0.59
1:D:1362:PRO:O	1:D:1365:MET:HE2	2.02	0.59
1:D:1403:ILE:HG23	1:D:1656:VAL:O	2.02	0.59
1:D:1615:ASP:OD2	1:D:1617:ILE:HG12	2.01	0.59
1:D:1680:ARG:O	1:D:1684:ALA:N	2.35	0.59
2:E:34:GLN:O	2:E:38:ASN:HB3	2.01	0.59
2:E:122:LEU:HD23	2:E:123:ILE:N	2.17	0.59
2:E:349:VAL:CG2	2:E:377:LEU:HD13	2.31	0.59
2:E:617:UNK:O	2:E:652:UNK:O	2.19	0.59
2:E:1724:GLU:O	2:E:1729:ILE:HB	2.02	0.59
2:E:1916:PHE:O	2:E:1917:ILE:HD13	2.02	0.59
1:G:574:UNK:C	1:G:576:UNK:N	2.61	0.59
1:G:905:LEU:O	1:G:908:LEU:N	2.35	0.59
1:G:907:GLY:O	1:G:909:LEU:N	2.35	0.59
1:G:1005:ALA:HB3	1:G:1006:PRO:CD	2.32	0.59
1:G:1011:GLY:O	1:G:1663:GLY:HA3	2.02	0.59
1:G:1223:PHE:HD2	1:G:1386:ILE:HD13	1.66	0.59
1:G:1351:ASN:ND2	1:G:1353:LEU:O	2.35	0.59
1:G:1362:PRO:O	1:G:1365:MET:HE2	2.02	0.59
2:H:261:GLY:HA2	2:H:264:ARG:HG2	1.83	0.59
2:H:704:UNK:HA	2:H:707:UNK:CB	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:689:GLY:HA2	1:A:692:VAL:HB	1.84	0.59
1:A:839:TYR:CE1	1:A:843:LYS:HE2	2.37	0.59
1:A:1216:LEU:O	1:A:1217:VAL:C	2.39	0.59
1:A:1340:SER:O	1:A:1341:PHE:CB	2.50	0.59
1:A:1354:GLU:C	1:A:1356:PHE:N	2.55	0.59
1:A:1413:LYS:HG2	1:A:1414:ILE:H	1.66	0.59
2:B:310:CYS:HB3	2:B:432:LEU:HD11	1.83	0.59
2:B:366:VAL:CG2	2:B:381:GLY:HA3	2.25	0.59
2:B:504:PHE:HA	2:B:529:VAL:HG23	1.85	0.59
2:B:1715:VAL:CG2	2:B:1770:LEU:H	2.14	0.59
2:B:1826:SER:O	2:B:1829:GLU:HB3	2.01	0.59
2:E:240:LEU:HD12	2:E:240:LEU:H	1.66	0.59
2:E:1874:VAL:HG22	2:E:1928:GLN:NE2	2.16	0.59
1:G:1067:LEU:CD2	1:G:1074:GLY:N	2.64	0.59
2:H:1691:TRP:O	2:H:1692:ASN:C	2.39	0.59
1:A:1099:GLU:CG	1:A:1100:HIS:H	1.99	0.59
1:A:1112:ASN:ND2	1:A:1117:GLU:O	2.34	0.59
1:A:1197:THR:HA	1:A:1200:ILE:CG2	2.32	0.59
1:A:1223:PHE:CD1	1:A:1231:PRO:HB3	2.37	0.59
1:A:1240:VAL:O	1:A:1242:GLU:N	2.35	0.59
1:A:1348:ALA:O	1:A:1349:THR:C	2.40	0.59
1:A:1376:PHE:CD2	1:A:1584:PRO:HD2	2.36	0.59
2:B:156:LEU:HD12	2:B:500:HIS:HB2	1.84	0.59
2:B:346:GLN:O	2:B:348:GLN:N	2.35	0.59
2:B:351:ASP:HA	2:B:354:ASN:HD22	1.67	0.59
2:B:1715:VAL:HG13	2:B:1716:ASN:H	1.67	0.59
1:D:826:MET:HG3	1:D:867:ALA:H	1.68	0.59
1:D:877:LEU:O	1:D:878:MET:CB	2.47	0.59
1:D:1076:VAL:HG21	1:D:1087:LYS:HA	1.85	0.59
1:D:1286:TRP:O	1:D:1288:ASN:N	2.36	0.59
1:D:1389:GLN:O	1:D:1390:ALA:HB3	2.01	0.59
1:D:1420:ALA:O	1:D:1421:PRO:C	2.40	0.59
2:E:49:ALA:N	2:E:118:LYS:NZ	2.50	0.59
2:E:98:GLY:C	2:E:100:ASP:H	2.05	0.59
2:E:1418:UNK:C	2:E:1420:UNK:N	2.65	0.59
2:E:2011:UNK:C	2:E:2013:UNK:N	2.61	0.59
1:G:769:ILE:HB	1:G:823:ILE:HD11	1.83	0.59
1:G:792:HIS:O	1:G:796:LEU:HD23	2.02	0.59
1:G:910:THR:OG1	1:G:911:PRO:HD2	2.02	0.59
1:G:1280:ILE:HD12	1:G:1280:ILE:H	1.63	0.59
1:G:1319:ILE:HA	1:G:1324:ALA:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1541:PHE:O	1:G:1542:HIS:CB	2.49	0.59
1:G:1743:SER:O	1:G:1744:TYR:CB	2.49	0.59
2:H:29:ILE:C	2:H:31:SER:N	2.56	0.59
2:H:267:LEU:HG	2:H:457:ILE:CD1	2.33	0.59
2:H:319:LEU:CD2	2:H:335:PRO:HG3	2.32	0.59
2:H:1720:HIS:HB3	2:H:1763:THR:HG23	1.84	0.59
2:H:1778:GLN:HE22	2:H:1834:ARG:HD3	1.66	0.59
2:H:2001:UNK:C	2:H:2003:UNK:N	2.65	0.59
1:A:733:ILE:CD1	1:A:761:LEU:HD13	2.33	0.59
1:A:1067:LEU:CD2	1:A:1074:GLY:N	2.65	0.59
1:A:1693:ILE:HG13	1:A:1694:TYR:N	2.17	0.59
2:B:767:UNK:C	2:B:769:UNK:N	2.65	0.59
1:D:428:UNK:C	1:D:430:UNK:N	2.62	0.59
1:D:1079:LYS:CD	1:D:1098:LEU:HD21	2.31	0.59
1:D:1105:LEU:HB3	1:D:1111:PHE:CE2	2.37	0.59
1:D:1240:VAL:HG13	1:D:1242:GLU:HB3	1.84	0.59
1:D:1551:LYS:O	1:D:1553:GLU:N	2.34	0.59
2:E:29:ILE:O	2:E:29:ILE:HD13	2.03	0.59
2:E:404:GLN:HG3	2:E:408:PRO:CG	2.31	0.59
2:E:483:ILE:CG2	2:E:484:ILE:HG23	2.32	0.59
2:E:1431:UNK:O	2:E:1432:UNK:O	2.20	0.59
2:E:1689:ASP:HA	2:E:1692:ASN:HB2	1.84	0.59
2:E:1919:LEU:O	2:E:1919:LEU:HD23	2.02	0.59
3:F:54:UNK:O	3:F:55:UNK:CB	2.50	0.59
1:G:1105:LEU:HD22	1:G:1111:PHE:CZ	2.38	0.59
1:G:1292:ILE:O	1:G:1292:ILE:CG1	2.49	0.59
1:G:1430:ARG:CG	1:G:1431:GLU:N	2.58	0.59
2:H:289:TRP:HA	2:H:292:PHE:HB3	1.84	0.59
2:H:775:UNK:O	2:H:776:UNK:O	2.21	0.59
2:H:1397:UNK:O	2:H:1398:UNK:C	2.49	0.59
2:H:1680:LEU:O	2:H:1683:THR:N	2.35	0.59
3:I:54:UNK:O	3:I:55:UNK:CB	2.50	0.59
1:A:798:ASN:O	1:A:802:MET:N	2.23	0.59
1:A:1141:ALA:O	1:A:1143:GLN:N	2.35	0.59
1:A:1156:GLU:CD	1:A:1156:GLU:C	2.60	0.59
1:A:1236:LYS:O	1:A:1237:TYR:HD1	1.84	0.59
1:A:1247:SER:O	1:A:1301:PRO:HD2	2.02	0.59
1:A:1354:GLU:O	1:A:1358:HIS:HB2	2.01	0.59
1:A:1494:HIS:O	1:A:1497:ALA:HB3	2.02	0.59
1:A:1657:HIS:CG	1:A:1658:PRO:HD2	2.38	0.59
2:B:29:ILE:O	2:B:29:ILE:HD13	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:299:ALA:O	2:B:302:VAL:HB	2.03	0.59
2:B:1605:UNK:C	2:B:1607:UNK:H2	2.14	0.59
2:B:1703:GLY:O	2:B:1721:PHE:HE2	1.86	0.59
2:B:1821:VAL:CG2	2:B:1822:MET:N	2.66	0.59
1:D:493:UNK:O	1:D:494:UNK:C	2.50	0.59
1:D:549:UNK:C	1:D:551:UNK:N	2.65	0.59
1:D:1294:SER:C	1:D:1296:GLY:H	2.05	0.59
1:D:1618:LEU:HB3	1:D:1623:TYR:HE2	1.67	0.59
1:D:1707:THR:HG23	1:D:1710:LEU:HG	1.85	0.59
1:D:1743:SER:O	1:D:1744:TYR:HB3	2.02	0.59
2:E:63:LYS:HD2	2:E:125:ASN:ND2	2.17	0.59
2:E:144:ALA:C	2:E:146:PHE:N	2.55	0.59
2:E:455:ILE:HD12	2:E:469:ARG:CB	2.24	0.59
2:E:1737:ILE:HD13	2:E:1738:PHE:H	1.68	0.59
2:E:1983:UNK:C	2:E:1985:UNK:N	2.64	0.59
1:G:1112:ASN:HA	1:G:1114:TYR:HB2	1.84	0.59
1:G:1240:VAL:O	1:G:1242:GLU:N	2.35	0.59
2:H:272:GLY:HA3	2:H:276:GLY:O	2.02	0.59
2:H:1581:UNK:O	2:H:1582:UNK:CB	2.51	0.59
2:H:1703:GLY:O	2:H:1704:PHE:CB	2.51	0.59
2:H:1764:PHE:O	2:H:1765:ARG:HB3	2.03	0.59
2:H:1789:PHE:O	2:H:1790:GLU:C	2.41	0.59
1:A:468:UNK:O	1:A:470:UNK:N	2.35	0.59
1:A:928:GLY:O	1:A:930:LEU:N	2.36	0.59
1:A:1110:LEU:HD11	1:A:1188:GLN:N	2.16	0.59
1:A:1202:ASP:O	1:A:1203:ASP:CB	2.51	0.59
1:A:1276:GLN:O	1:A:1279:PHE:HD2	1.86	0.59
1:A:1650:GLY:O	1:A:1651:GLY:O	2.19	0.59
1:A:1743:SER:O	1:A:1744:TYR:HB3	2.01	0.59
2:B:286:THR:HG23	2:B:292:PHE:HA	1.83	0.59
2:B:1878:VAL:HB	2:B:1898:TYR:CE1	2.38	0.59
1:D:468:UNK:O	1:D:470:UNK:N	2.35	0.59
1:D:689:GLY:HA2	1:D:692:VAL:HB	1.83	0.59
1:D:1009:LEU:HD12	1:D:1009:LEU:N	2.17	0.59
1:D:1191:THR:CA	1:D:1193:TRP:CH2	2.86	0.59
1:D:1311:SER:O	1:D:1314:ILE:N	2.34	0.59
1:D:1444:ASN:N	1:D:1444:ASN:ND2	2.49	0.59
1:D:1456:GLU:O	1:D:1460:LYS:HB2	2.02	0.59
1:D:1491:ARG:C	1:D:1493:ILE:H	2.06	0.59
1:D:1604:ILE:HD13	1:D:1604:ILE:N	2.17	0.59
2:E:260:PRO:HB2	2:E:286:THR:HB	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1752:PHE:O	2:E:1753:LYS:O	2.20	0.59
1:G:549:UNK:C	1:G:551:UNK:N	2.65	0.59
1:G:1076:VAL:HG21	1:G:1087:LYS:HA	1.84	0.59
1:G:1165:VAL:HG23	1:G:1166:LYS:N	2.17	0.59
1:G:1431:GLU:OE1	1:G:1564:LEU:HD13	2.03	0.59
1:G:1525:ALA:C	1:G:1527:ALA:H	2.05	0.59
2:H:98:GLY:C	2:H:100:ASP:H	2.05	0.59
2:H:1715:VAL:HG13	2:H:1716:ASN:H	1.65	0.59
2:H:1729:ILE:HG23	2:H:1730:ARG:N	2.11	0.59
2:H:1751:ILE:HG21	2:H:1836:MET:SD	2.43	0.59
1:A:368:UNK:C	1:A:370:UNK:N	2.62	0.59
1:A:495:UNK:C	1:A:497:UNK:N	2.64	0.59
1:A:644:UNK:O	1:A:646:UNK:N	2.35	0.59
1:A:858:TRP:HE3	1:A:862:LEU:HB2	1.67	0.59
1:A:1188:GLN:NE2	1:A:1352:THR:OG1	2.25	0.59
1:A:1294:SER:C	1:A:1296:GLY:H	2.05	0.59
1:A:1320:LEU:HG	1:A:1321:SER:N	2.17	0.59
2:B:34:GLN:O	2:B:38:ASN:HB3	2.02	0.59
2:B:95:TYR:H	2:B:96:LEU:HD23	1.67	0.59
2:B:1778:GLN:HE22	2:B:1834:ARG:HD3	1.66	0.59
1:D:1340:SER:O	1:D:1341:PHE:CB	2.51	0.59
1:D:1362:PRO:HA	1:D:1365:MET:HE1	1.84	0.59
2:E:1720:HIS:HB3	2:E:1763:THR:HG23	1.83	0.59
2:E:1812:TYR:O	2:E:1816:ALA:CB	2.51	0.59
1:G:644:UNK:O	1:G:646:UNK:N	2.36	0.59
1:G:712:LYS:HE2	1:G:716:ASP:OD2	2.03	0.59
1:G:901:MET:HE3	1:G:905:LEU:HD23	1.85	0.59
1:G:1190:PRO:HG2	1:G:1379:ALA:HA	1.85	0.59
1:G:1236:LYS:O	1:G:1237:TYR:HD1	1.85	0.59
1:G:1705:PRO:HG2	1:G:1706:TYR:H	1.67	0.59
2:H:1:MET:CB	2:H:11:LEU:HB2	2.28	0.59
2:H:41:LEU:H	2:H:42:PRO:CD	2.15	0.59
2:H:56:THR:N	2:H:57:PRO:CD	2.66	0.59
2:H:346:GLN:O	2:H:348:GLN:N	2.35	0.59
2:H:593:UNK:O	2:H:595:UNK:N	2.36	0.59
1:A:972:SER:O	1:A:973:ALA:HB2	2.03	0.59
1:A:1026:GLU:O	1:A:1032:SER:HA	2.03	0.59
1:A:1073:THR:CG2	1:A:1074:GLY:N	2.66	0.59
1:A:1084:VAL:O	1:A:1085:ASP:C	2.40	0.59
1:A:1095:THR:HA	1:A:1099:GLU:HB2	1.83	0.59
1:A:1121:MET:O	1:A:1183:ARG:HA	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1319:ILE:HD12	1:A:1325:ARG:HA	1.85	0.59
1:A:1326:ILE:HG13	1:A:1388:MET:SD	2.42	0.59
1:A:1420:ALA:O	1:A:1421:PRO:C	2.39	0.59
1:A:1456:GLU:O	1:A:1460:LYS:HB2	2.03	0.59
1:A:1532:THR:OG1	1:A:1535:ASP:N	2.35	0.59
1:A:1697:LEU:HD12	1:A:1697:LEU:N	2.11	0.59
2:B:91:PHE:CZ	2:B:101:ILE:HD11	2.37	0.59
2:B:467:ASP:C	2:B:469:ARG:H	2.05	0.59
2:B:594:UNK:O	2:B:611:UNK:HA	2.02	0.59
2:B:998:UNK:O	2:B:1002:UNK:N	2.35	0.59
2:B:1703:GLY:O	2:B:1704:PHE:CB	2.51	0.59
1:D:595:UNK:O	1:D:611:UNK:HA	2.03	0.59
1:D:910:THR:O	1:D:911:PRO:O	2.20	0.59
1:D:1165:VAL:HG23	1:D:1166:LYS:N	2.18	0.59
1:D:1339:GLY:C	1:D:1340:SER:O	2.38	0.59
2:E:1591:UNK:C	2:E:1593:UNK:N	2.66	0.59
2:E:1898:TYR:O	2:E:1902:GLY:HA3	2.03	0.59
1:G:733:ILE:CD1	1:G:761:LEU:HD13	2.33	0.59
1:G:905:LEU:HD22	1:G:905:LEU:N	2.15	0.59
1:G:925:ASP:C	1:G:926:LEU:HD23	2.22	0.59
1:G:1022:THR:O	1:G:1401:TYR:HE2	1.86	0.59
1:G:1258:ARG:HG2	1:G:1263:ASP:OD2	2.03	0.59
1:G:1294:SER:C	1:G:1296:GLY:H	2.06	0.59
1:G:1573:ILE:HG23	1:G:1624:VAL:CG1	2.33	0.59
1:G:1592:MET:O	1:G:1596:ALA:N	2.35	0.59
2:H:862:UNK:HA	2:H:865:UNK:CB	2.33	0.59
2:H:1720:HIS:C	2:H:1721:PHE:CD1	2.75	0.59
1:A:717:TYR:HD2	1:A:718:TYR:CD1	2.20	0.59
1:A:1009:LEU:HD12	1:A:1009:LEU:N	2.18	0.59
1:A:1022:THR:HG21	1:A:1388:MET:CE	2.30	0.59
1:A:1203:ASP:C	1:A:1205:ILE:N	2.44	0.59
1:A:1431:GLU:HG3	1:A:1560:MET:HG3	1.85	0.59
1:A:1455:ARG:HG3	1:A:1459:ILE:CG2	2.33	0.59
1:A:1491:ARG:C	1:A:1493:ILE:H	2.05	0.59
1:A:1688:PHE:O	1:A:1690:ASN:N	2.35	0.59
2:B:213:LEU:O	2:B:215:ILE:HG13	2.02	0.59
2:B:261:GLY:HA2	2:B:264:ARG:HG2	1.84	0.59
3:C:54:UNK:O	3:C:55:UNK:CB	2.50	0.59
1:D:752:ILE:CA	1:D:761:LEU:HD23	2.26	0.59
1:D:1189:ILE:HG21	1:D:1377:MET:CB	2.09	0.59
1:D:1247:SER:O	1:D:1301:PRO:HD2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:132:MET:O	2:E:133:ALA:HB3	2.03	0.59
2:E:199:ILE:HG23	2:E:200:ARG:N	2.15	0.59
2:E:248:HIS:HB3	2:E:529:VAL:HG11	1.85	0.59
2:E:462:THR:HB	2:E:482:CYS:HB2	1.84	0.59
2:E:998:UNK:O	2:E:1002:UNK:N	2.36	0.59
2:E:1486:UNK:O	2:E:1510:UNK:HA	2.03	0.59
1:G:495:UNK:C	1:G:497:UNK:N	2.64	0.59
1:G:687:SER:HB2	1:G:899:LYS:HE3	1.85	0.59
1:G:689:GLY:HA2	1:G:692:VAL:HB	1.83	0.59
1:G:1203:ASP:H	1:G:1205:ILE:HG13	1.66	0.59
1:G:1299:LYS:HZ1	1:G:1323:LYS:HZ3	1.50	0.59
1:G:1406:MET:HE3	1:G:1430:ARG:HD2	1.85	0.59
1:G:1641:ILE:HG12	1:G:1652:GLN:HE22	1.67	0.59
1:G:1693:ILE:HG13	1:G:1694:TYR:N	2.18	0.59
2:H:122:LEU:HD23	2:H:123:ILE:N	2.18	0.59
2:H:350:GLN:O	2:H:353:VAL:N	2.35	0.59
1:A:815:ILE:O	1:A:815:ILE:HG22	2.02	0.58
1:A:930:LEU:O	1:A:933:VAL:HG23	2.03	0.58
1:A:1342:GLU:N	1:A:1345:ASN:HB2	2.17	0.58
1:A:1454:THR:HG21	1:A:1508:TRP:CZ3	2.38	0.58
2:B:511:GLY:O	2:B:513:GLY:N	2.29	0.58
2:B:1066:UNK:O	2:B:1067:UNK:O	2.21	0.58
2:B:1680:LEU:O	2:B:1683:THR:N	2.36	0.58
1:D:710:PHE:HD2	1:D:711:SER:H	1.51	0.58
1:D:1156:GLU:N	1:D:1171:ALA:HB2	2.18	0.58
1:D:1408:ALA:H	1:D:1653:ALA:HB2	1.67	0.58
2:E:319:LEU:HD21	2:E:335:PRO:HG3	1.85	0.58
2:E:620:UNK:O	2:E:622:UNK:N	2.36	0.58
1:G:443:UNK:HA	1:G:722:TYR:CE2	2.38	0.58
1:G:794:ILE:HA	1:G:798:ASN:ND2	2.18	0.58
1:G:1000:GLN:C	1:G:1002:LYS:N	2.54	0.58
1:G:1083:PRO:HG2	1:G:1084:VAL:H	1.68	0.58
1:G:1191:THR:CA	1:G:1193:TRP:CH2	2.86	0.58
1:G:1326:ILE:HD12	1:G:1326:ILE:N	2.16	0.58
1:G:1456:GLU:H	1:G:1459:ILE:HG13	1.68	0.58
1:G:1502:ARG:O	1:G:1505:GLN:N	2.36	0.58
2:H:1305:UNK:O	2:H:1306:UNK:C	2.51	0.58
1:A:889:GLU:C	1:A:893:VAL:HA	2.24	0.58
1:A:925:ASP:C	1:A:926:LEU:HD23	2.23	0.58
1:A:1067:LEU:C	1:A:1069:GLY:H	2.05	0.58
1:A:1418:VAL:HG12	1:A:1419:PRO:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:159:ILE:HD12	2:B:501:ILE:HG21	1.84	0.58
2:B:480:VAL:O	2:B:484:ILE:HG12	2.02	0.58
2:B:1173:UNK:CB	2:B:1180:UNK:HA	2.32	0.58
1:D:749:ILE:HD11	1:D:802:MET:HE2	1.84	0.58
1:D:858:TRP:HE3	1:D:862:LEU:HB2	1.67	0.58
1:D:1191:THR:HB	1:D:1193:TRP:CZ3	2.37	0.58
1:D:1693:ILE:HG13	1:D:1694:TYR:N	2.17	0.58
2:E:1049:UNK:C	2:E:1051:UNK:N	2.65	0.58
2:E:1720:HIS:HA	2:E:1763:THR:HA	1.85	0.58
2:E:1901:ALA:HA	2:E:1905:ARG:NH2	2.18	0.58
1:G:1067:LEU:CG	1:G:1068:LYS:N	2.65	0.58
1:G:1178:ALA:O	1:G:1179:LEU:CD2	2.51	0.58
1:G:1286:TRP:HD1	1:G:1290:LEU:HD13	1.68	0.58
1:G:1334:ASP:CG	1:G:1335:PHE:H	2.05	0.58
1:G:1362:PRO:HA	1:G:1365:MET:CE	2.33	0.58
1:G:1408:ALA:HB2	1:G:1652:GLN:C	2.23	0.58
1:G:1431:GLU:HG3	1:G:1560:MET:HG3	1.84	0.58
2:H:515:LEU:HD12	2:H:515:LEU:O	2.02	0.58
2:H:1776:PHE:O	2:H:1779:PRO:CD	2.50	0.58
2:H:2020:UNK:C	2:H:2022:UNK:N	2.64	0.58
2:B:272:GLY:HA3	2:B:276:GLY:O	2.02	0.58
2:B:339:LEU:O	2:B:378:VAL:HA	2.03	0.58
2:B:515:LEU:O	2:B:515:LEU:HD12	2.03	0.58
2:B:1291:UNK:CB	2:B:1369:UNK:H	2.15	0.58
2:B:1975:UNK:O	2:B:1976:UNK:CB	2.51	0.58
1:D:1121:MET:O	1:D:1183:ARG:HA	2.03	0.58
2:E:71:LEU:O	2:E:72:VAL:HG13	2.02	0.58
2:E:144:ALA:C	2:E:146:PHE:H	2.06	0.58
2:E:503:ASP:C	2:E:505:GLY:H	2.06	0.58
2:E:583:UNK:O	2:E:584:UNK:CB	2.50	0.58
2:E:1691:TRP:O	2:E:1692:ASN:C	2.42	0.58
1:G:701:ALA:O	1:G:730:SER:HA	2.04	0.58
1:G:791:ALA:O	1:G:794:ILE:HG22	2.04	0.58
1:G:1009:LEU:HD12	1:G:1009:LEU:N	2.18	0.58
1:G:1029:PRO:N	1:G:1193:TRP:HE1	2.00	0.58
1:G:1354:GLU:O	1:G:1358:HIS:HB2	2.03	0.58
2:H:29:ILE:O	2:H:29:ILE:HD13	2.03	0.58
2:H:34:GLN:O	2:H:38:ASN:HB3	2.03	0.58
2:H:594:UNK:O	2:H:611:UNK:HA	2.03	0.58
2:H:998:UNK:O	2:H:1002:UNK:N	2.36	0.58
1:A:1021:VAL:HG11	1:A:1597:LEU:CD1	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1544:THR:OG1	1:A:1546:THR:CG2	2.51	0.58
1:A:1615:ASP:OD2	1:A:1617:ILE:HG12	2.02	0.58
2:B:310:CYS:CB	2:B:432:LEU:HD11	2.33	0.58
2:B:1581:UNK:O	2:B:1582:UNK:CB	2.51	0.58
2:B:1691:TRP:O	2:B:1692:ASN:C	2.42	0.58
2:B:1916:PHE:O	2:B:1917:ILE:HD13	2.02	0.58
1:D:733:ILE:CD1	1:D:761:LEU:HD13	2.34	0.58
1:D:761:LEU:HD11	1:D:763:TRP:CE3	2.39	0.58
1:D:775:PRO:O	1:D:776:GLU:CB	2.51	0.58
1:D:858:TRP:O	1:D:861:GLN:HG2	2.03	0.58
1:D:1029:PRO:N	1:D:1193:TRP:HE1	2.01	0.58
1:D:1084:VAL:O	1:D:1085:ASP:C	2.39	0.58
1:D:1157:ILE:HG22	1:D:1158:PRO:CD	2.23	0.58
1:D:1242:GLU:O	1:D:1243:VAL:HG13	2.03	0.58
1:D:1403:ILE:HD11	1:D:1529:TYR:OH	2.03	0.58
1:D:1538:VAL:HA	1:D:1573:ILE:O	2.03	0.58
1:D:1541:PHE:O	1:D:1542:HIS:CB	2.50	0.58
2:E:25:ALA:HB1	2:E:65:LEU:HD11	1.84	0.58
2:E:131:ILE:HG21	2:E:182:VAL:CG2	2.34	0.58
2:E:480:VAL:O	2:E:484:ILE:HG12	2.03	0.58
2:E:1173:UNK:HA	2:E:1182:UNK:N	2.18	0.58
2:E:1581:UNK:O	2:E:1582:UNK:CB	2.52	0.58
2:E:2040:UNK:C	2:E:2042:UNK:N	2.64	0.58
1:G:681:THR:HG22	1:G:771:PHE:O	2.03	0.58
1:G:858:TRP:O	1:G:861:GLN:HG2	2.04	0.58
1:G:1156:GLU:N	1:G:1171:ALA:HB2	2.19	0.58
1:G:1373:ARG:CG	1:G:1547:LYS:HD3	2.08	0.58
1:G:1520:ALA:H	1:G:1521:PRO:CD	2.09	0.58
2:H:31:SER:O	2:H:33:LEU:N	2.36	0.58
2:H:1166:UNK:C	2:H:1168:UNK:H	2.16	0.58
2:H:1332:UNK:C	2:H:1334:UNK:N	2.60	0.58
2:H:1901:ALA:HA	2:H:1905:ARG:NH2	2.19	0.58
1:A:235:UNK:O	1:A:236:UNK:C	2.50	0.58
1:A:1020:VAL:HG11	1:A:1400:ILE:HB	1.84	0.58
1:A:1112:ASN:HA	1:A:1114:TYR:HB2	1.84	0.58
1:A:1133:PRO:O	1:A:1134:PHE:CD1	2.55	0.58
1:A:1238:VAL:HA	1:A:1721:ARG:H	1.68	0.58
1:A:1389:GLN:O	1:A:1390:ALA:HB3	2.02	0.58
1:A:1392:LEU:H	1:A:1392:LEU:CD2	2.16	0.58
1:A:1524:GLY:O	1:A:1527:ALA:HB3	2.04	0.58
1:A:1701:LYS:N	1:A:1701:LYS:HE3	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:41:LEU:N	2:B:42:PRO:HD2	2.19	0.58
2:B:1322:UNK:C	2:B:1324:UNK:N	2.67	0.58
2:B:1698:PHE:CD1	2:B:1706:ILE:HD11	2.39	0.58
1:D:1351:ASN:O	1:D:1353:LEU:O	2.22	0.58
1:D:1364:GLU:C	1:D:1366:SER:H	2.07	0.58
1:D:1373:ARG:HG2	1:D:1547:LYS:CD	2.09	0.58
1:D:1454:THR:HG21	1:D:1508:TRP:CZ3	2.37	0.58
1:D:1583:HIS:CD2	1:D:1584:PRO:HA	2.39	0.58
2:E:1882:THR:HB	2:E:1885:LEU:HD21	1.85	0.58
1:G:901:MET:CE	1:G:905:LEU:HD23	2.33	0.58
1:G:1026:GLU:O	1:G:1032:SER:HA	2.03	0.58
1:G:1141:ALA:O	1:G:1143:GLN:N	2.36	0.58
1:G:1169:LYS:NZ	1:G:1170:GLY:H	2.01	0.58
1:G:1253:GLY:O	1:G:1254:VAL:O	2.22	0.58
1:G:1325:ARG:HB2	1:G:1389:GLN:HB2	1.84	0.58
1:G:1403:ILE:HG23	1:G:1656:VAL:O	2.04	0.58
1:G:1491:ARG:C	1:G:1493:ILE:H	2.05	0.58
1:G:1532:THR:OG1	1:G:1535:ASP:N	2.36	0.58
2:H:426:PRO:O	2:H:429:SER:HB3	2.02	0.58
2:H:1789:PHE:CZ	2:H:1818:LEU:HD23	2.38	0.58
1:A:826:MET:HG3	1:A:867:ALA:H	1.69	0.58
1:A:858:TRP:O	1:A:861:GLN:HG2	2.04	0.58
1:A:903:PHE:O	1:A:906:LEU:HB3	2.03	0.58
1:A:1184:LEU:HD22	1:A:1341:PHE:CD2	2.35	0.58
1:A:1592:MET:O	1:A:1596:ALA:N	2.37	0.58
2:B:528:ILE:H	2:B:541:TYR:HB2	1.68	0.58
2:B:1874:VAL:HG22	2:B:1928:GLN:NE2	2.17	0.58
1:D:1342:GLU:N	1:D:1345:ASN:HB2	2.18	0.58
2:E:87:CYS:HA	2:E:90:GLU:CB	2.32	0.58
1:G:1008:GLU:C	1:G:1010:GLU:N	2.56	0.58
1:G:1607:GLY:O	1:G:1610:ASN:ND2	2.36	0.58
2:H:242:GLY:HA2	2:H:245:GLN:NE2	2.14	0.58
2:H:450:PHE:CD1	2:H:451:ASN:N	2.64	0.58
2:H:577:UNK:O	2:H:578:UNK:C	2.51	0.58
2:H:1262:UNK:O	2:H:1263:UNK:C	2.52	0.58
2:H:1752:PHE:O	2:H:1753:LYS:O	2.22	0.58
1:A:741:SER:O	1:A:742:LYS:O	2.21	0.58
1:A:775:PRO:O	1:A:776:GLU:CB	2.52	0.58
1:A:1005:ALA:HB3	1:A:1006:PRO:CD	2.33	0.58
1:A:1242:GLU:O	1:A:1243:VAL:HG13	2.03	0.58
1:A:1362:PRO:O	1:A:1365:MET:HE2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1426:LEU:CD1	1:A:1650:GLY:HA3	2.33	0.58
1:A:1539:ALA:HA	1:A:1640:SER:O	2.04	0.58
1:A:1607:GLY:O	1:A:1610:ASN:ND2	2.36	0.58
2:B:260:PRO:HB2	2:B:286:THR:HB	1.86	0.58
2:B:704:UNK:HA	2:B:707:UNK:CB	2.34	0.58
2:B:1705:SER:O	2:B:1709:ILE:HG12	2.03	0.58
2:B:1776:PHE:O	2:B:1779:PRO:CD	2.52	0.58
2:B:1898:TYR:O	2:B:1902:GLY:HA3	2.03	0.58
1:D:852:ARG:NH1	1:D:856:GLU:OE1	2.37	0.58
1:D:1431:GLU:HG3	1:D:1560:MET:HG3	1.85	0.58
1:D:1685:TYR:CE2	2:E:966:UNK:CB	2.85	0.58
2:E:156:LEU:HD12	2:E:500:HIS:HB2	1.84	0.58
2:E:1788:ALA:O	2:E:1792:LEU:HG	2.03	0.58
1:G:493:UNK:O	1:G:495:UNK:N	2.37	0.58
1:G:1002:LYS:HE3	1:G:1670:TYR:OH	2.03	0.58
1:G:1105:LEU:HB3	1:G:1111:PHE:CE2	2.38	0.58
1:G:1162:GLU:OE2	1:G:1162:GLU:N	2.37	0.58
1:G:1188:GLN:NE2	1:G:1352:THR:OG1	2.26	0.58
1:G:1202:ASP:O	1:G:1203:ASP:CB	2.51	0.58
1:G:1308:SER:CB	1:G:1590:ALA:H	2.17	0.58
1:G:1426:LEU:CD1	1:G:1650:GLY:HA3	2.34	0.58
1:G:1459:ILE:O	1:G:1463:VAL:HG23	2.04	0.58
1:G:1853:UNK:HA	1:G:1857:UNK:CB	2.33	0.58
2:H:26:SER:O	2:H:29:ILE:HG22	2.03	0.58
2:H:95:TYR:H	2:H:96:LEU:HD23	1.66	0.58
2:H:132:MET:O	2:H:133:ALA:HB3	2.04	0.58
2:H:390:ASN:OD1	2:H:393:LEU:HD23	2.04	0.58
2:H:1173:UNK:HA	2:H:1182:UNK:N	2.19	0.58
1:A:445:UNK:O	1:A:447:UNK:N	2.37	0.58
1:A:493:UNK:O	1:A:495:UNK:N	2.35	0.58
1:A:791:ALA:CA	1:A:794:ILE:HG22	2.33	0.58
1:A:901:MET:CE	1:A:905:LEU:HD23	2.34	0.58
1:A:1029:PRO:N	1:A:1193:TRP:HE1	2.01	0.58
1:A:1109:GLU:C	1:A:1111:PHE:N	2.57	0.58
1:A:1354:GLU:C	1:A:1356:PHE:H	2.05	0.58
1:A:1409:THR:HG23	1:A:1409:THR:O	2.03	0.58
1:A:1690:ASN:O	1:A:1693:ILE:HG12	2.04	0.58
1:A:1705:PRO:HG2	1:A:1706:TYR:CD1	2.39	0.58
2:B:29:ILE:C	2:B:31:SER:N	2.57	0.58
2:B:78:GLY:O	2:B:79:GLN:C	2.42	0.58
2:B:444:VAL:O	2:B:446:ASN:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1695:ASP:CG	2:B:1705:SER:HB2	2.23	0.58
1:D:1080:THR:OG1	1:D:1083:PRO:CG	2.51	0.58
1:D:1178:ALA:C	1:D:1179:LEU:CD2	2.72	0.58
1:D:1220:VAL:HG21	1:D:1698:PHE:HD1	1.69	0.58
1:D:1238:VAL:HA	1:D:1721:ARG:H	1.69	0.58
1:D:1677:VAL:C	1:D:1679:ALA:H	2.05	0.58
2:E:95:TYR:H	2:E:96:LEU:HD23	1.67	0.58
2:E:408:PRO:HG2	2:E:409:PHE:H	1.67	0.58
2:E:1715:VAL:HG13	2:E:1716:ASN:H	1.68	0.58
2:E:1764:PHE:O	2:E:1765:ARG:HB3	2.04	0.58
2:E:1776:PHE:O	2:E:1779:PRO:CD	2.50	0.58
2:E:1778:GLN:HB2	2:E:1779:PRO:CD	2.33	0.58
1:G:680:ILE:HA	1:G:769:ILE:HG23	1.84	0.58
1:G:752:ILE:CA	1:G:761:LEU:HD23	2.26	0.58
1:G:972:SER:O	1:G:973:ALA:HB2	2.04	0.58
1:G:1122:ILE:HG13	1:G:1122:ILE:O	2.04	0.58
1:G:1642:THR:HA	1:G:1652:GLN:OE1	2.03	0.58
1:G:1697:LEU:HD12	1:G:1697:LEU:N	2.09	0.58
2:H:620:UNK:O	2:H:622:UNK:N	2.36	0.58
2:H:1370:UNK:O	2:H:1371:UNK:CB	2.50	0.58
1:A:443:UNK:HA	1:A:722:TYR:CE2	2.38	0.58
1:A:761:LEU:HD11	1:A:763:TRP:CE3	2.39	0.58
1:A:858:TRP:HA	1:A:861:GLN:NE2	2.19	0.58
1:A:1076:VAL:HG21	1:A:1087:LYS:HA	1.85	0.58
1:A:1208:VAL:HG12	1:A:1286:TRP:CZ3	2.39	0.58
1:A:1286:TRP:O	1:A:1288:ASN:N	2.37	0.58
1:A:1614:VAL:O	1:A:1615:ASP:CB	2.49	0.58
1:A:1677:VAL:C	1:A:1679:ALA:H	2.06	0.58
2:B:184:VAL:O	2:B:188:ILE:HG12	2.04	0.58
2:B:248:HIS:HB3	2:B:529:VAL:HG11	1.84	0.58
2:B:620:UNK:C	2:B:622:UNK:N	2.63	0.58
1:D:908:LEU:O	1:D:913:VAL:HG11	2.03	0.58
1:D:930:LEU:O	1:D:933:VAL:HG23	2.04	0.58
1:D:1108:PRO:O	1:D:1109:GLU:HB2	2.04	0.58
1:D:1151:LYS:CE	1:D:1175:ILE:HD13	2.31	0.58
1:D:1319:ILE:HD12	1:D:1325:ARG:HA	1.84	0.58
1:D:1448:ARG:HD2	1:D:1448:ARG:O	2.04	0.58
1:D:1665:ILE:HG22	1:D:1667:GLU:N	2.19	0.58
1:D:1853:UNK:HA	1:D:1857:UNK:CB	2.34	0.58
2:E:577:UNK:O	2:E:578:UNK:C	2.52	0.58
2:E:1193:UNK:HA	2:E:1201:UNK:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1250:UNK:O	2:E:1251:UNK:C	2.52	0.58
2:E:1262:UNK:O	2:E:1263:UNK:C	2.51	0.58
1:G:1080:THR:O	1:G:1081:LYS:C	2.42	0.58
1:G:1286:TRP:O	1:G:1288:ASN:N	2.37	0.58
1:G:1456:GLU:O	1:G:1460:LYS:HB2	2.04	0.58
2:H:170:PHE:CB	2:H:231:LEU:HD21	2.34	0.58
2:H:528:ILE:H	2:H:541:TYR:HB2	1.68	0.58
2:H:528:ILE:H	2:H:541:TYR:HB3	1.68	0.58
2:H:1725:LYS:HG2	2:H:1760:THR:OG1	2.04	0.58
2:H:1898:TYR:O	2:H:1902:GLY:HA3	2.04	0.58
1:A:717:TYR:O	1:A:719:GLN:N	2.33	0.58
1:A:1408:ALA:HB2	1:A:1652:GLN:C	2.23	0.58
1:A:1426:LEU:HD13	1:A:1651:GLY:N	2.18	0.58
2:B:56:THR:CG2	2:B:59:GLU:HG3	2.25	0.58
2:B:384:GLN:O	2:B:385:SER:C	2.43	0.58
2:B:1591:UNK:C	2:B:1593:UNK:N	2.65	0.58
1:D:495:UNK:C	1:D:497:UNK:N	2.63	0.58
1:D:1190:PRO:HG2	1:D:1379:ALA:HA	1.85	0.58
1:D:1541:PHE:CG	1:D:1576:PHE:HE1	2.21	0.58
1:D:1562:LYS:C	1:D:1564:LEU:H	2.07	0.58
1:D:1625:LEU:CD1	1:D:1626:TYR:HD1	2.17	0.58
1:D:1658:PRO:O	1:D:1660:TYR:N	2.31	0.58
2:E:333:GLY:O	2:E:334:VAL:C	2.42	0.58
2:E:528:ILE:H	2:E:541:TYR:HB3	1.69	0.58
2:E:1695:ASP:CG	2:E:1705:SER:HB2	2.23	0.58
2:E:1698:PHE:HE1	2:E:1828:VAL:CG2	2.17	0.58
2:E:1821:VAL:CG2	2:E:1822:MET:N	2.66	0.58
2:E:1822:MET:CE	2:E:1827:LEU:HA	2.34	0.58
2:E:1834:ARG:HG3	2:E:1834:ARG:NH1	2.17	0.58
1:G:497:UNK:O	1:G:499:UNK:N	2.36	0.58
1:G:717:TYR:O	1:G:719:GLN:N	2.33	0.58
1:G:1067:LEU:HD22	1:G:1067:LEU:C	2.21	0.58
1:G:1208:VAL:HG12	1:G:1286:TRP:CH2	2.38	0.58
1:G:1274:ILE:C	1:G:1276:GLN:H	2.07	0.58
1:G:1326:ILE:HG13	1:G:1388:MET:SD	2.44	0.58
1:G:1339:GLY:O	1:G:1341:PHE:O	2.21	0.58
2:H:267:LEU:HG	2:H:457:ILE:HD12	1.86	0.58
2:H:299:ALA:O	2:H:302:VAL:HB	2.04	0.58
2:H:1737:ILE:HD13	2:H:1738:PHE:H	1.68	0.58
2:H:1842:VAL:O	2:H:1842:VAL:HG12	2.04	0.58
1:A:544:UNK:O	1:A:548:UNK:N	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:866:GLY:O	1:A:867:ALA:CB	2.51	0.57
1:A:890:LYS:O	1:A:892:GLY:N	2.33	0.57
1:A:959:ILE:O	1:A:963:LEU:HB2	2.03	0.57
1:A:1159:GLU:C	1:A:1166:LYS:HD3	2.24	0.57
1:A:1260:MET:HB3	1:A:1261:PHE:CD2	2.38	0.57
1:A:1471:LYS:HD3	1:A:1471:LYS:O	2.04	0.57
2:B:915:UNK:O	2:B:917:UNK:N	2.37	0.57
2:B:1173:UNK:HA	2:B:1182:UNK:N	2.18	0.57
2:B:1250:UNK:O	2:B:1251:UNK:C	2.52	0.57
2:B:1264:UNK:O	2:B:1266:UNK:N	2.38	0.57
2:B:1672:GLN:HE21	2:B:1777:THR:HG21	1.69	0.57
2:B:1725:LYS:HG2	2:B:1760:THR:OG1	2.04	0.57
1:D:370:UNK:O	1:D:374:UNK:N	2.37	0.57
1:D:679:LEU:H	1:D:679:LEU:HD12	1.68	0.57
1:D:889:GLU:C	1:D:893:VAL:HA	2.24	0.57
1:D:1280:ILE:H	1:D:1280:ILE:CD1	2.15	0.57
1:D:1409:THR:HG23	1:D:1409:THR:O	2.04	0.57
2:E:351:ASP:HA	2:E:354:ASN:HD22	1.68	0.57
2:E:426:PRO:O	2:E:429:SER:HB3	2.04	0.57
2:E:2001:UNK:C	2:E:2003:UNK:N	2.66	0.57
1:G:446:UNK:O	1:G:447:UNK:CB	2.52	0.57
1:G:1076:VAL:HG11	1:G:1087:LYS:CA	2.26	0.57
1:G:1132:GLU:N	1:G:1133:PRO:CD	2.66	0.57
1:G:1133:PRO:HD2	1:G:1173:LEU:HD13	1.85	0.57
1:G:1659:ASP:HA	1:G:1662:TYR:CE2	2.39	0.57
2:H:367:GLU:CG	2:H:368:ILE:N	2.67	0.57
2:H:678:UNK:O	2:H:682:UNK:N	2.36	0.57
2:H:1173:UNK:CB	2:H:1180:UNK:HA	2.34	0.57
2:H:1295:UNK:C	2:H:1297:UNK:N	2.65	0.57
2:H:2011:UNK:C	2:H:2013:UNK:N	2.59	0.57
1:A:791:ALA:O	1:A:794:ILE:HG22	2.03	0.57
1:A:792:HIS:O	1:A:796:LEU:HD23	2.03	0.57
1:A:1191:THR:CA	1:A:1193:TRP:CH2	2.87	0.57
1:A:1538:VAL:HA	1:A:1573:ILE:O	2.04	0.57
1:A:1624:VAL:O	1:A:1625:LEU:HB3	2.03	0.57
2:B:87:CYS:HA	2:B:90:GLU:CB	2.29	0.57
2:B:1822:MET:CE	2:B:1827:LEU:HA	2.35	0.57
2:B:1919:LEU:HD23	2:B:1919:LEU:O	2.03	0.57
1:D:446:UNK:O	1:D:447:UNK:CB	2.52	0.57
1:D:448:UNK:O	1:D:450:UNK:N	2.37	0.57
1:D:701:ALA:O	1:D:730:SER:HA	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:797:THR:O	1:D:800:LEU:N	2.38	0.57
1:D:972:SER:O	1:D:973:ALA:HB2	2.04	0.57
1:D:1021:VAL:HG11	1:D:1597:LEU:CD1	2.34	0.57
1:D:1067:LEU:C	1:D:1069:GLY:H	2.06	0.57
1:D:1099:GLU:O	1:D:1101:SER:N	2.37	0.57
1:D:1156:GLU:C	1:D:1156:GLU:CD	2.62	0.57
1:D:1260:MET:C	1:D:1261:PHE:HD2	2.07	0.57
1:D:1354:GLU:O	1:D:1358:HIS:HB2	2.04	0.57
1:D:1685:TYR:O	1:D:1685:TYR:CD1	2.57	0.57
2:E:41:LEU:H	2:E:42:PRO:CD	2.16	0.57
2:E:94:CYS:SG	2:E:95:TYR:N	2.77	0.57
2:E:1322:UNK:C	2:E:1324:UNK:N	2.66	0.57
1:G:803:MET:CE	1:G:822:VAL:HG11	2.34	0.57
1:G:889:GLU:C	1:G:893:VAL:HA	2.23	0.57
1:G:959:ILE:O	1:G:963:LEU:HB2	2.04	0.57
1:G:1029:PRO:HG2	1:G:1581:THR:HG23	1.84	0.57
1:G:1240:VAL:C	1:G:1242:GLU:N	2.58	0.57
1:G:1618:LEU:HB3	1:G:1623:TYR:HE2	1.69	0.57
1:G:1625:LEU:CD1	1:G:1626:TYR:HD1	2.17	0.57
2:H:49:ALA:H	2:H:118:LYS:HZ1	1.52	0.57
2:H:200:ARG:O	2:H:203:LEU:HG	2.05	0.57
2:H:1431:UNK:O	2:H:1432:UNK:O	2.22	0.57
2:H:1685:LYS:O	2:H:1688:GLN:HB3	2.04	0.57
2:H:1789:PHE:CE1	2:H:1818:LEU:HD23	2.39	0.57
2:H:1821:VAL:CG2	2:H:1822:MET:N	2.66	0.57
2:H:1822:MET:CE	2:H:1827:LEU:HA	2.34	0.57
2:H:1878:VAL:HB	2:H:1898:TYR:CE1	2.38	0.57
1:A:497:UNK:O	1:A:499:UNK:N	2.37	0.57
1:A:549:UNK:C	1:A:551:UNK:N	2.65	0.57
1:A:1080:THR:OG1	1:A:1083:PRO:CG	2.53	0.57
1:A:1190:PRO:HG2	1:A:1379:ALA:HA	1.86	0.57
1:A:1240:VAL:C	1:A:1242:GLU:N	2.58	0.57
1:A:1247:SER:O	1:A:1301:PRO:CD	2.52	0.57
1:A:1325:ARG:HB2	1:A:1389:GLN:HB2	1.84	0.57
1:A:1471:LYS:O	1:A:1474:ALA:HB2	2.05	0.57
1:A:1542:HIS:HA	1:A:1578:LYS:HE2	1.87	0.57
1:A:1641:ILE:HG12	1:A:1652:GLN:HE22	1.68	0.57
1:A:1665:ILE:HG22	1:A:1667:GLU:N	2.19	0.57
2:B:49:ALA:N	2:B:118:LYS:NZ	2.51	0.57
2:B:200:ARG:O	2:B:203:LEU:HG	2.05	0.57
2:B:1281:UNK:O	2:B:1282:UNK:CB	2.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1778:GLN:HB2	2:B:1779:PRO:CD	2.32	0.57
3:C:18:UNK:O	3:C:19:UNK:CB	2.52	0.57
1:D:235:UNK:O	1:D:236:UNK:C	2.52	0.57
1:D:1005:ALA:HB3	1:D:1006:PRO:CD	2.34	0.57
1:D:1110:LEU:HG	1:D:1188:GLN:CA	2.34	0.57
1:D:1240:VAL:C	1:D:1242:GLU:N	2.58	0.57
2:E:59:GLU:OE1	2:E:122:LEU:HG	2.04	0.57
2:E:367:GLU:CG	2:E:368:ILE:N	2.67	0.57
1:G:235:UNK:O	1:G:236:UNK:C	2.52	0.57
1:G:808:LYS:HE3	1:G:808:LYS:CA	2.29	0.57
1:G:1159:GLU:C	1:G:1166:LYS:HD3	2.24	0.57
1:G:1276:GLN:O	1:G:1279:PHE:HD2	1.87	0.57
1:G:1444:ASN:N	1:G:1444:ASN:ND2	2.51	0.57
1:G:1471:LYS:HD3	1:G:1471:LYS:O	2.04	0.57
1:G:1489:ARG:O	1:G:1493:ILE:HG23	2.04	0.57
1:G:1541:PHE:HE2	1:G:1554:SER:HG	1.49	0.57
1:G:1553:GLU:CA	1:G:1556:THR:HB	2.33	0.57
1:G:1583:HIS:CD2	1:G:1584:PRO:HA	2.40	0.57
2:H:100:ASP:OD1	2:H:102:HIS:HB2	2.05	0.57
2:H:480:VAL:O	2:H:484:ILE:HG12	2.03	0.57
2:H:1322:UNK:C	2:H:1324:UNK:N	2.65	0.57
2:H:1874:VAL:HG22	2:H:1928:GLN:NE2	2.19	0.57
1:A:1137:SER:HG	1:A:1168:LEU:HD12	1.68	0.57
1:A:1466:GLU:O	1:A:1467:LEU:C	2.42	0.57
2:B:250:VAL:O	2:B:253:ALA:HB3	2.04	0.57
2:B:1912:ASN:O	2:B:1913:VAL:HG22	2.04	0.57
1:D:456:UNK:O	1:D:460:UNK:N	2.38	0.57
1:D:471:UNK:HA	1:D:474:UNK:CB	2.35	0.57
1:D:1067:LEU:HD22	1:D:1067:LEU:C	2.23	0.57
1:D:1132:GLU:N	1:D:1133:PRO:CD	2.66	0.57
1:D:1348:ALA:O	1:D:1349:THR:C	2.42	0.57
1:D:1419:PRO:HD3	1:D:1646:PHE:CD1	2.39	0.57
1:D:1489:ARG:O	1:D:1493:ILE:HG12	2.04	0.57
1:D:1657:HIS:CG	1:D:1658:PRO:HD2	2.39	0.57
2:E:240:LEU:HA	2:E:243:VAL:CG2	2.34	0.57
1:G:678:VAL:HG13	1:G:767:ALA:O	2.03	0.57
1:G:908:LEU:O	1:G:913:VAL:HG11	2.04	0.57
1:G:910:THR:O	1:G:911:PRO:O	2.22	0.57
1:G:1022:THR:HG21	1:G:1388:MET:CE	2.31	0.57
1:G:1060:ILE:HD13	1:G:1077:ASP:OD1	2.04	0.57
1:G:1099:GLU:CG	1:G:1100:HIS:H	2.01	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1156:GLU:C	1:G:1156:GLU:CD	2.62	0.57
1:G:1341:PHE:O	1:G:1343:PHE:N	2.36	0.57
1:G:1562:LYS:C	1:G:1564:LEU:H	2.08	0.57
1:G:1705:PRO:HG2	1:G:1706:TYR:CD1	2.39	0.57
2:H:144:ALA:C	2:H:146:PHE:H	2.07	0.57
2:H:260:PRO:HB2	2:H:286:THR:HB	1.85	0.57
2:H:339:LEU:O	2:H:378:VAL:HA	2.04	0.57
2:H:1250:UNK:O	2:H:1251:UNK:C	2.51	0.57
2:H:1486:UNK:O	2:H:1510:UNK:HA	2.04	0.57
1:A:444:UNK:H	1:A:722:TYR:HE2	1.53	0.57
1:A:804:GLY:O	1:A:807:LYS:HB3	2.04	0.57
1:A:905:LEU:HD22	1:A:905:LEU:N	2.18	0.57
1:A:1041:ALA:O	1:A:1627:PRO:HG3	2.04	0.57
1:A:1246:CYS:N	1:A:1328:ILE:HG23	2.19	0.57
1:A:1589:GLY:HA2	1:A:1592:MET:HE3	1.85	0.57
1:A:1717:ASP:C	1:A:1719:LEU:N	2.58	0.57
1:A:1853:UNK:HA	1:A:1857:UNK:CB	2.34	0.57
2:B:69:SER:HA	2:B:80:PHE:CB	2.34	0.57
2:B:258:PHE:CB	2:B:262:GLU:HB2	2.28	0.57
2:B:1049:UNK:C	2:B:1051:UNK:N	2.65	0.57
2:B:1698:PHE:HE1	2:B:1828:VAL:CG2	2.17	0.57
1:D:678:VAL:HG13	1:D:767:ALA:O	2.05	0.57
1:D:791:ALA:O	1:D:794:ILE:HG22	2.04	0.57
1:D:1073:THR:CG2	1:D:1074:GLY:N	2.67	0.57
1:D:1426:LEU:HD13	1:D:1651:GLY:N	2.19	0.57
1:D:1455:ARG:O	1:D:1456:GLU:CB	2.52	0.57
1:D:1536:LEU:CB	1:D:1638:ALA:HB3	2.34	0.57
1:D:1636:VAL:O	1:D:1637:ARG:HB2	2.05	0.57
2:E:582:UNK:O	2:E:583:UNK:CB	2.52	0.57
2:E:767:UNK:C	2:E:769:UNK:N	2.65	0.57
2:E:1291:UNK:CB	2:E:1369:UNK:H	2.17	0.57
1:G:370:UNK:O	1:G:374:UNK:N	2.38	0.57
1:G:710:PHE:HD2	1:G:711:SER:H	1.53	0.57
1:G:771:PHE:CE2	1:G:825:PRO:HB3	2.38	0.57
1:G:1188:GLN:O	1:G:1189:ILE:HD13	2.04	0.57
1:G:1722:VAL:CB	1:G:1731:LEU:HG	2.34	0.57
2:H:41:LEU:CB	2:H:46:GLU:H	2.17	0.57
2:H:1066:UNK:O	2:H:1067:UNK:O	2.23	0.57
1:A:370:UNK:O	1:A:374:UNK:N	2.36	0.57
1:A:557:UNK:C	1:A:559:UNK:N	2.67	0.57
1:A:712:LYS:HE2	1:A:716:ASP:OD2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:771:PHE:N	1:A:771:PHE:CD1	2.73	0.57
1:A:794:ILE:HA	1:A:798:ASN:ND2	2.18	0.57
1:A:910:THR:O	1:A:911:PRO:O	2.22	0.57
2:B:386:LEU:O	2:B:389:LEU:HB3	2.05	0.57
1:D:368:UNK:C	1:D:370:UNK:N	2.63	0.57
1:D:445:UNK:O	1:D:447:UNK:N	2.38	0.57
1:D:497:UNK:O	1:D:499:UNK:N	2.38	0.57
1:D:1002:LYS:HE3	1:D:1670:TYR:OH	2.04	0.57
1:D:1080:THR:O	1:D:1081:LYS:C	2.41	0.57
1:D:1112:ASN:ND2	1:D:1117:GLU:O	2.35	0.57
1:D:1144:PHE:HA	1:D:1147:GLN:HB2	1.85	0.57
1:D:1466:GLU:O	1:D:1467:LEU:C	2.43	0.57
1:D:1471:LYS:O	1:D:1474:ALA:HB2	2.05	0.57
1:D:1536:LEU:HB3	1:D:1638:ALA:CB	2.34	0.57
2:E:78:GLY:O	2:E:79:GLN:C	2.43	0.57
2:E:527:VAL:HG22	2:E:540:ASP:O	2.05	0.57
2:E:704:UNK:HA	2:E:707:UNK:CB	2.35	0.57
2:E:1605:UNK:C	2:E:1607:UNK:H2	2.16	0.57
2:E:1789:PHE:O	2:E:1790:GLU:C	2.42	0.57
1:G:571:UNK:O	1:G:575:UNK:N	2.36	0.57
1:G:761:LEU:HD11	1:G:763:TRP:CE3	2.39	0.57
1:G:775:PRO:O	1:G:776:GLU:CB	2.51	0.57
1:G:999:LYS:O	1:G:1001:VAL:N	2.33	0.57
1:G:1118:LYS:CE	1:G:1337:GLU:HG3	2.33	0.57
1:G:1144:PHE:CD1	1:G:1145:LYS:N	2.72	0.57
1:G:1403:ILE:O	1:G:1655:VAL:HG22	2.03	0.57
1:G:1511:ASP:O	1:G:1512:PHE:C	2.42	0.57
1:G:1555:ALA:HA	1:G:1558:ASN:HB3	1.87	0.57
2:H:2040:UNK:O	2:H:2042:UNK:N	2.37	0.57
1:A:884:ILE:CG2	1:A:887:GLY:HA3	2.34	0.57
1:A:905:LEU:HA	1:A:908:LEU:HB3	1.85	0.57
1:A:1131:LEU:CA	1:A:1173:LEU:HD22	2.35	0.57
1:A:1208:VAL:HB	1:A:1212:THR:HG21	1.87	0.57
1:A:1377:MET:O	1:A:1378:GLU:O	2.23	0.57
1:A:1397:GLY:H	1:A:1676:LYS:HB3	1.69	0.57
1:A:1553:GLU:CA	1:A:1556:THR:HB	2.35	0.57
2:B:18:HIS:O	2:B:20:LEU:N	2.37	0.57
2:B:349:VAL:HG21	2:B:377:LEU:CD1	2.31	0.57
2:B:408:PRO:HA	2:B:412:ARG:HB2	1.87	0.57
2:B:1166:UNK:C	2:B:1168:UNK:H	2.17	0.57
2:B:1709:ILE:CD1	2:B:1719:ILE:HD11	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1720:HIS:HA	2:B:1763:THR:HA	1.86	0.57
2:B:1721:PHE:CD1	2:B:1721:PHE:N	2.73	0.57
2:B:1901:ALA:HA	2:B:1905:ARG:NH2	2.20	0.57
1:D:771:PHE:N	1:D:771:PHE:CD1	2.73	0.57
1:D:839:TYR:CE1	1:D:843:LYS:HE2	2.39	0.57
1:D:963:LEU:O	1:D:967:VAL:HG23	2.05	0.57
1:D:1079:LYS:HG2	1:D:1080:THR:N	2.20	0.57
1:D:1133:PRO:HD2	1:D:1173:LEU:HD13	1.86	0.57
1:D:1240:VAL:O	1:D:1242:GLU:N	2.37	0.57
1:D:1538:VAL:HG11	1:D:1599:ILE:HD12	1.87	0.57
2:E:1281:UNK:O	2:E:1282:UNK:CB	2.52	0.57
2:E:1672:GLN:HE21	2:E:1777:THR:CG2	2.17	0.57
3:F:18:UNK:O	3:F:19:UNK:CB	2.53	0.57
1:G:428:UNK:O	1:G:430:UNK:N	2.37	0.57
1:G:444:UNK:H	1:G:722:TYR:HE2	1.53	0.57
1:G:595:UNK:O	1:G:611:UNK:HA	2.05	0.57
1:G:753:TYR:CD2	1:G:809:GLN:HG3	2.39	0.57
1:G:1080:THR:OG1	1:G:1083:PRO:CG	2.52	0.57
1:G:1197:THR:OG1	1:G:1200:ILE:HG22	2.05	0.57
1:G:1397:GLY:H	1:G:1676:LYS:HB3	1.70	0.57
1:G:1589:GLY:HA2	1:G:1592:MET:HE2	1.86	0.57
1:G:1637:ARG:O	1:G:1656:VAL:HG23	2.04	0.57
1:G:1665:ILE:HG22	1:G:1667:GLU:N	2.19	0.57
2:H:131:ILE:HG21	2:H:182:VAL:CG2	2.34	0.57
2:H:1703:GLY:O	2:H:1704:PHE:HD1	1.86	0.57
2:H:1812:TYR:O	2:H:1816:ALA:CB	2.53	0.57
1:A:595:UNK:O	1:A:611:UNK:HA	2.04	0.57
1:A:742:LYS:O	1:A:743:GLN:C	2.43	0.57
1:A:998:TYR:O	1:A:999:LYS:O	2.22	0.57
1:A:1187:GLY:O	1:A:1189:ILE:HG12	2.05	0.57
1:A:1261:PHE:CD2	1:A:1261:PHE:N	2.70	0.57
1:A:1459:ILE:O	1:A:1463:VAL:HG23	2.05	0.57
1:A:1489:ARG:O	1:A:1493:ILE:HG12	2.04	0.57
2:B:862:UNK:HA	2:B:865:UNK:CB	2.34	0.57
2:B:1886:VAL:O	3:C:3:UNK:CB	2.53	0.57
1:D:741:SER:O	1:D:742:LYS:O	2.22	0.57
1:D:792:HIS:HD2	1:D:838:MET:SD	2.28	0.57
1:D:1406:MET:HE3	1:D:1430:ARG:HD2	1.87	0.57
1:D:1604:ILE:HG23	1:D:1630:THR:CA	2.34	0.57
2:E:33:LEU:O	2:E:37:PHE:HB2	2.03	0.57
2:E:170:PHE:CB	2:E:231:LEU:HD21	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:390:ASN:OD1	2:E:393:LEU:HD23	2.05	0.57
2:E:504:PHE:HA	2:E:529:VAL:HG23	1.84	0.57
2:E:1322:UNK:O	2:E:1324:UNK:N	2.37	0.57
1:G:1067:LEU:C	1:G:1069:GLY:H	2.06	0.57
1:G:1069:GLY:O	1:G:1070:ARG:C	2.43	0.57
1:G:1208:VAL:HG12	1:G:1286:TRP:CZ3	2.40	0.57
1:G:1246:CYS:N	1:G:1328:ILE:HG23	2.20	0.57
1:G:1260:MET:C	1:G:1261:PHE:HD2	2.08	0.57
1:G:1311:SER:O	1:G:1314:ILE:N	2.36	0.57
1:G:1455:ARG:O	1:G:1456:GLU:CB	2.53	0.57
1:G:1547:LYS:HE3	1:G:1615:ASP:HB2	1.87	0.57
1:G:1553:GLU:HB2	1:G:1644:PHE:HE2	1.69	0.57
2:H:238:CYS:N	2:H:239:PRO:HD2	2.20	0.57
2:H:450:PHE:HD1	2:H:451:ASN:H	1.49	0.57
2:H:1141:UNK:O	2:H:1142:UNK:CB	2.53	0.57
2:H:1418:UNK:C	2:H:1420:UNK:N	2.65	0.57
2:H:1678:MET:HA	2:H:1678:MET:CE	2.34	0.57
2:H:1859:PRO:HB3	2:H:1863:ALA:CB	2.35	0.57
1:A:830:HIS:CD2	1:A:830:HIS:N	2.71	0.57
1:A:1002:LYS:HE3	1:A:1670:TYR:OH	2.05	0.57
1:A:1011:GLY:O	1:A:1663:GLY:HA3	2.04	0.57
1:A:1073:THR:HG22	1:A:1074:GLY:N	2.19	0.57
1:A:1412:ASP:HB2	1:A:1425:ILE:C	2.24	0.57
1:A:1547:LYS:HE3	1:A:1615:ASP:HB2	1.87	0.57
2:B:61:VAL:HG12	2:B:65:LEU:HD12	1.86	0.57
2:B:1193:UNK:HA	2:B:1201:UNK:O	2.04	0.57
2:B:1672:GLN:HE21	2:B:1777:THR:CG2	2.18	0.57
1:D:586:UNK:CB	1:D:671:VAL:N	2.63	0.57
1:D:710:PHE:HE1	1:D:736:PRO:CD	2.13	0.57
1:D:792:HIS:O	1:D:796:LEU:HD23	2.05	0.57
1:D:794:ILE:HA	1:D:798:ASN:ND2	2.20	0.57
1:D:1041:ALA:O	1:D:1627:PRO:HG3	2.04	0.57
2:E:41:LEU:N	2:E:42:PRO:HD2	2.20	0.57
2:E:41:LEU:CB	2:E:46:GLU:H	2.15	0.57
2:E:49:ALA:CA	2:E:118:LYS:HZ2	2.18	0.57
2:E:515:LEU:HD12	2:E:515:LEU:O	2.04	0.57
2:E:1883:GLY:HA2	2:E:1894:GLU:CD	2.24	0.57
1:G:687:SER:HB2	1:G:899:LYS:CE	2.35	0.57
1:G:742:LYS:O	1:G:743:GLN:C	2.44	0.57
1:G:928:GLY:O	1:G:930:LEU:N	2.38	0.57
1:G:1220:VAL:HG21	1:G:1698:PHE:HD1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1454:THR:HG21	1:G:1508:TRP:CZ3	2.39	0.57
2:H:69:SER:HA	2:H:80:PHE:CB	2.34	0.57
2:H:148:ALA:HB1	2:H:154:ALA:HB3	1.87	0.57
2:H:265:SER:O	2:H:267:LEU:N	2.38	0.57
2:H:462:THR:HB	2:H:482:CYS:HB2	1.87	0.57
2:H:504:PHE:HA	2:H:529:VAL:HG23	1.84	0.57
2:H:1764:PHE:N	2:H:1764:PHE:HD2	1.99	0.57
1:A:563:UNK:C	1:A:565:UNK:N	2.68	0.57
1:A:680:ILE:HA	1:A:769:ILE:HG23	1.87	0.57
1:A:792:HIS:HD2	1:A:838:MET:SD	2.27	0.57
1:A:1022:THR:O	1:A:1401:TYR:HE2	1.87	0.57
1:A:1378:GLU:HA	1:A:1583:HIS:CB	2.35	0.57
1:A:1530:GLY:O	1:A:1531:LEU:O	2.23	0.57
1:A:1625:LEU:CD1	1:A:1626:TYR:HD1	2.17	0.57
1:A:1730:SER:O	1:A:1731:LEU:C	2.43	0.57
2:B:49:ALA:H	2:B:118:LYS:HZ1	1.53	0.57
2:B:100:ASP:OD1	2:B:102:HIS:HB2	2.05	0.57
2:B:969:UNK:O	2:B:971:UNK:N	2.38	0.57
2:B:1328:UNK:O	2:B:1332:UNK:N	2.37	0.57
1:D:742:LYS:O	1:D:743:GLN:C	2.43	0.57
1:D:1138:LYS:O	1:D:1139:GLU:HB3	2.04	0.57
1:D:1274:ILE:C	1:D:1276:GLN:H	2.07	0.57
1:D:1303:GLY:HA3	1:D:1649:LYS:HD2	1.84	0.57
1:D:1308:SER:CB	1:D:1590:ALA:H	2.17	0.57
1:D:1413:LYS:HD2	1:D:1425:ILE:CD1	2.34	0.57
1:D:1592:MET:O	1:D:1596:ALA:N	2.38	0.57
1:D:1641:ILE:HG12	1:D:1652:GLN:HE22	1.70	0.57
1:D:1717:ASP:C	1:D:1719:LEU:N	2.58	0.57
2:E:346:GLN:O	2:E:348:GLN:N	2.36	0.57
2:E:473:GLY:O	2:E:477:GLU:HB3	2.04	0.57
2:E:1693:ARG:HD3	2:E:1825:GLU:OE2	2.05	0.57
2:E:1754:GLU:C	2:E:1756:ASN:H	2.08	0.57
1:G:741:SER:O	1:G:742:LYS:O	2.23	0.57
1:G:1028:GLY:HA3	1:G:1591:TRP:HZ2	1.67	0.57
1:G:1119:LYS:CG	1:G:1121:MET:HB2	2.34	0.57
1:G:1288:ASN:O	1:G:1290:LEU:N	2.38	0.57
1:G:1348:ALA:O	1:G:1349:THR:C	2.42	0.57
1:G:1370:THR:O	1:G:1371:THR:HB	2.04	0.57
1:G:1466:GLU:O	1:G:1467:LEU:C	2.42	0.57
2:H:490:TRP:CH2	2:H:512:LEU:HD13	2.40	0.57
2:H:1049:UNK:C	2:H:1051:UNK:N	2.66	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1225:UNK:O	2:H:1226:UNK:CB	2.53	0.57
2:H:1778:GLN:HB2	2:H:1779:PRO:CD	2.32	0.57
2:H:1804:PHE:CE2	2:H:1818:LEU:HB2	2.40	0.57
1:A:1045:PHE:HB3	1:A:1050:CYS:N	2.20	0.56
1:A:1110:LEU:HG	1:A:1188:GLN:CA	2.34	0.56
1:A:1339:GLY:O	1:A:1341:PHE:O	2.22	0.56
1:A:1408:ALA:HA	1:A:1652:GLN:O	2.05	0.56
1:A:1412:ASP:O	1:A:1648:GLN:OE1	2.23	0.56
1:A:1553:GLU:HA	1:A:1556:THR:HB	1.87	0.56
1:A:1604:ILE:HD13	1:A:1604:ILE:N	2.20	0.56
2:B:41:LEU:HD22	2:B:47:GLY:N	2.20	0.56
2:B:238:CYS:N	2:B:239:PRO:HD2	2.20	0.56
2:B:339:LEU:HB2	2:B:420:PHE:CD1	2.40	0.56
2:B:699:UNK:O	2:B:700:UNK:C	2.51	0.56
2:B:1264:UNK:C	2:B:1266:UNK:N	2.68	0.56
2:B:1334:UNK:O	2:B:1335:UNK:C	2.52	0.56
2:B:1562:UNK:O	2:B:1564:UNK:N	2.38	0.56
1:D:677:TYR:HA	1:D:702:LYS:O	2.05	0.56
1:D:858:TRP:HA	1:D:861:GLN:NE2	2.19	0.56
1:D:928:GLY:O	1:D:930:LEU:N	2.38	0.56
1:D:1041:ALA:HA	1:D:1606:PRO:HG3	1.87	0.56
1:D:1076:VAL:HG11	1:D:1087:LYS:CA	2.25	0.56
1:D:1276:GLN:O	1:D:1279:PHE:CD2	2.59	0.56
2:E:222:PRO:HA	2:E:225:THR:OG1	2.05	0.56
2:E:1975:UNK:O	2:E:1976:UNK:CB	2.52	0.56
1:G:525:UNK:O	1:G:526:UNK:C	2.53	0.56
1:G:547:UNK:O	1:G:549:UNK:N	2.36	0.56
1:G:1012:LEU:HD11	1:G:1015:LEU:HD12	1.86	0.56
1:G:1108:PRO:O	1:G:1109:GLU:HB2	2.05	0.56
1:G:1109:GLU:O	1:G:1110:LEU:CB	2.53	0.56
1:G:1197:THR:HA	1:G:1200:ILE:CG2	2.34	0.56
1:G:1214:PHE:C	1:G:1218:SER:HG	2.07	0.56
1:G:1257:LEU:O	1:G:1257:LEU:HD23	2.04	0.56
1:G:1614:VAL:O	1:G:1614:VAL:HG12	2.05	0.56
1:G:1691:GLY:O	1:G:1695:ASN:N	2.38	0.56
1:G:1691:GLY:C	1:G:1697:LEU:HD11	2.26	0.56
2:H:917:UNK:C	2:H:919:UNK:N	2.67	0.56
2:H:1458:UNK:O	2:H:1460:UNK:N	2.38	0.56
1:A:239:UNK:O	1:A:241:UNK:N	2.38	0.56
1:A:687:SER:HB2	1:A:899:LYS:HE3	1.87	0.56
1:A:771:PHE:O	1:A:772:ALA:O	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1118:LYS:O	1:A:1118:LYS:HG3	2.05	0.56
1:A:1178:ALA:O	1:A:1179:LEU:CD2	2.50	0.56
1:A:1370:THR:O	1:A:1371:THR:HB	2.05	0.56
1:A:1413:LYS:HD2	1:A:1425:ILE:CD1	2.35	0.56
1:A:1447:TYR:C	1:A:1449:LYS:N	2.58	0.56
1:A:1618:LEU:HB3	1:A:1623:TYR:HE2	1.69	0.56
2:B:1:MET:CB	2:B:11:LEU:HB2	2.29	0.56
2:B:14:GLY:HA3	2:B:18:HIS:CB	2.35	0.56
2:B:94:CYS:SG	2:B:95:TYR:N	2.79	0.56
2:B:240:LEU:HA	2:B:243:VAL:CG2	2.34	0.56
2:B:390:ASN:OD1	2:B:393:LEU:HD23	2.05	0.56
2:B:765:UNK:C	2:B:767:UNK:N	2.67	0.56
2:B:1018:UNK:O	2:B:1019:UNK:CB	2.53	0.56
2:B:1379:UNK:HA	2:B:1425:UNK:O	2.05	0.56
2:B:1418:UNK:C	2:B:1420:UNK:N	2.67	0.56
2:B:1789:PHE:O	2:B:1790:GLU:C	2.42	0.56
2:B:1907:LEU:HD23	2:B:1907:LEU:N	2.20	0.56
2:B:2020:UNK:C	2:B:2022:UNK:N	2.66	0.56
1:D:927:ASN:O	1:D:929:GLY:N	2.38	0.56
1:D:1162:GLU:N	1:D:1162:GLU:OE2	2.38	0.56
1:D:1202:ASP:O	1:D:1203:ASP:CB	2.53	0.56
2:E:384:GLN:O	2:E:385:SER:C	2.43	0.56
2:E:408:PRO:HA	2:E:412:ARG:HB2	1.88	0.56
1:G:963:LEU:O	1:G:967:VAL:HG23	2.05	0.56
1:G:1109:GLU:C	1:G:1111:PHE:N	2.58	0.56
1:G:1258:ARG:NH1	1:G:1263:ASP:OD2	2.38	0.56
1:G:1280:ILE:H	1:G:1280:ILE:CD1	2.16	0.56
1:G:1489:ARG:O	1:G:1493:ILE:HG12	2.05	0.56
1:G:1604:ILE:HD13	1:G:1604:ILE:N	2.19	0.56
2:H:478:ARG:C	2:H:480:VAL:N	2.59	0.56
2:H:503:ASP:C	2:H:505:GLY:H	2.08	0.56
2:H:1040:UNK:O	2:H:1041:UNK:CB	2.53	0.56
2:H:1193:UNK:HA	2:H:1201:UNK:O	2.04	0.56
2:H:1379:UNK:HA	2:H:1425:UNK:O	2.04	0.56
2:H:1975:UNK:O	2:H:1976:UNK:CB	2.53	0.56
1:A:418:UNK:O	1:A:419:UNK:C	2.53	0.56
1:A:428:UNK:O	1:A:430:UNK:N	2.37	0.56
1:A:432:UNK:O	1:A:433:UNK:CB	2.54	0.56
1:A:456:UNK:O	1:A:460:UNK:N	2.39	0.56
1:A:680:ILE:HD11	1:A:703:VAL:HG13	1.87	0.56
1:A:701:ALA:O	1:A:730:SER:HA	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:796:LEU:O	1:A:800:LEU:HD23	2.05	0.56
1:A:1122:ILE:O	1:A:1122:ILE:HG13	2.05	0.56
1:A:1165:VAL:HG23	1:A:1166:LYS:N	2.20	0.56
1:A:1189:ILE:CD1	1:A:1352:THR:HG23	2.31	0.56
1:A:1455:ARG:O	1:A:1456:GLU:CB	2.53	0.56
1:A:1464:GLU:HG2	1:A:1773:UNK:N	2.20	0.56
1:A:1604:ILE:HG23	1:A:1630:THR:CA	2.35	0.56
1:A:1637:ARG:O	1:A:1656:VAL:HG23	2.06	0.56
2:B:50:ALA:O	2:B:51:ASP:HB2	2.05	0.56
2:B:131:ILE:HG21	2:B:182:VAL:CG2	2.35	0.56
2:B:214:ASN:O	2:B:216:LEU:N	2.38	0.56
2:B:235:PRO:O	2:B:236:ILE:CB	2.53	0.56
2:B:241:ILE:HG22	2:B:242:GLY:H	1.70	0.56
2:B:503:ASP:C	2:B:505:GLY:H	2.08	0.56
2:B:620:UNK:O	2:B:622:UNK:N	2.38	0.56
2:B:799:UNK:C	2:B:801:UNK:N	2.67	0.56
2:B:1799:PRO:O	2:B:1801:ASP:N	2.38	0.56
1:D:418:UNK:O	1:D:419:UNK:C	2.54	0.56
1:D:771:PHE:CE1	1:D:825:PRO:HD3	2.41	0.56
1:D:1026:GLU:O	1:D:1032:SER:HA	2.04	0.56
1:D:1105:LEU:HD22	1:D:1111:PHE:CZ	2.39	0.56
1:D:1111:PHE:HB3	1:D:1114:TYR:CD1	2.39	0.56
1:D:1140:THR:HA	1:D:1165:VAL:HB	1.88	0.56
1:D:1169:LYS:NZ	1:D:1170:GLY:H	2.02	0.56
1:D:1188:GLN:O	1:D:1189:ILE:HD13	2.06	0.56
1:D:1189:ILE:CD1	1:D:1352:THR:HG23	2.32	0.56
1:D:1254:VAL:CG2	1:D:1255:SER:H	2.06	0.56
1:D:1456:GLU:H	1:D:1459:ILE:HG13	1.67	0.56
1:D:1464:GLU:CA	1:D:1467:LEU:HD12	2.26	0.56
1:D:1539:ALA:HA	1:D:1640:SER:O	2.05	0.56
1:D:1573:ILE:HG23	1:D:1624:VAL:CG1	2.35	0.56
1:D:1624:VAL:O	1:D:1625:LEU:HB3	2.04	0.56
2:E:197:GLU:O	2:E:199:ILE:N	2.38	0.56
2:E:214:ASN:O	2:E:216:LEU:N	2.39	0.56
2:E:490:TRP:CH2	2:E:512:LEU:HD13	2.41	0.56
2:E:1162:UNK:C	2:E:1164:UNK:H	2.19	0.56
2:E:1698:PHE:CD1	2:E:1706:ILE:HD11	2.40	0.56
1:G:489:UNK:O	1:G:490:UNK:C	2.53	0.56
1:G:796:LEU:O	1:G:800:LEU:HD23	2.05	0.56
1:G:797:THR:O	1:G:800:LEU:N	2.38	0.56
1:G:826:MET:HG3	1:G:867:ALA:H	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:858:TRP:HA	1:G:861:GLN:NE2	2.20	0.56
1:G:927:ASN:ND2	1:G:931:GLN:H	2.03	0.56
1:G:1032:SER:O	1:G:1033:ALA:C	2.43	0.56
1:G:1103:ILE:O	1:G:1106:ILE:HG13	2.05	0.56
1:G:1121:MET:O	1:G:1183:ARG:HA	2.04	0.56
1:G:1191:THR:HB	1:G:1193:TRP:CZ3	2.39	0.56
1:G:1303:GLY:HA3	1:G:1649:LYS:HD2	1.86	0.56
1:G:1327:CYS:HB3	1:G:1387:ILE:HD11	1.87	0.56
1:G:1378:GLU:HA	1:G:1583:HIS:CB	2.36	0.56
1:G:1412:ASP:O	1:G:1648:GLN:OE1	2.23	0.56
1:G:1717:ASP:O	1:G:1719:LEU:N	2.38	0.56
2:H:339:LEU:HB2	2:H:420:PHE:CD1	2.40	0.56
2:H:582:UNK:O	2:H:583:UNK:CB	2.53	0.56
2:H:767:UNK:C	2:H:769:UNK:N	2.66	0.56
2:H:915:UNK:O	2:H:917:UNK:N	2.39	0.56
2:H:916:UNK:O	2:H:920:UNK:N	2.39	0.56
2:H:1281:UNK:O	2:H:1282:UNK:CB	2.53	0.56
2:H:1307:UNK:C	2:H:1309:UNK:N	2.68	0.56
2:H:1698:PHE:C	2:H:1700:ASP:H	2.08	0.56
2:H:1720:HIS:HA	2:H:1763:THR:HA	1.86	0.56
2:H:1948:UNK:O	2:H:1949:UNK:CB	2.52	0.56
2:H:1983:UNK:C	2:H:1985:UNK:N	2.65	0.56
1:A:1012:LEU:HD11	1:A:1015:LEU:HD12	1.87	0.56
1:A:1099:GLU:O	1:A:1102:GLY:N	2.24	0.56
1:A:1108:PRO:O	1:A:1109:GLU:HB2	2.05	0.56
1:A:1144:PHE:CD1	1:A:1145:LYS:N	2.72	0.56
1:A:1299:LYS:O	1:A:1300:THR:HB	2.05	0.56
1:A:1422:GLY:C	1:A:1425:ILE:HB	2.24	0.56
1:A:1654:ILE:CG1	1:A:1655:VAL:N	2.69	0.56
2:B:41:LEU:CD2	2:B:46:GLU:HA	2.31	0.56
2:B:267:LEU:HG	2:B:457:ILE:CD1	2.36	0.56
2:B:462:THR:HB	2:B:482:CYS:HB2	1.87	0.56
2:B:1812:TYR:O	2:B:1816:ALA:CB	2.54	0.56
2:B:2040:UNK:C	2:B:2042:UNK:N	2.64	0.56
1:D:791:ALA:CA	1:D:794:ILE:HG22	2.34	0.56
1:D:1067:LEU:HG	1:D:1074:GLY:H	1.71	0.56
1:D:1133:PRO:O	1:D:1134:PHE:CD1	2.58	0.56
1:D:1144:PHE:O	1:D:1145:LYS:C	2.44	0.56
1:D:1216:LEU:O	1:D:1217:VAL:C	2.43	0.56
1:D:1257:LEU:O	1:D:1257:LEU:HD23	2.06	0.56
1:D:1459:ILE:O	1:D:1463:VAL:HG23	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1471:LYS:HD3	1:D:1471:LYS:O	2.05	0.56
1:D:1489:ARG:O	1:D:1493:ILE:HG23	2.06	0.56
1:D:1549:ASN:OD1	1:D:1550:ASP:N	2.38	0.56
2:E:29:ILE:C	2:E:31:SER:N	2.56	0.56
2:E:98:GLY:O	2:E:100:ASP:N	2.38	0.56
2:E:248:HIS:CE1	2:E:530:ALA:HB2	2.40	0.56
2:E:594:UNK:O	2:E:611:UNK:HA	2.06	0.56
2:E:1299:UNK:O	2:E:1301:UNK:N	2.39	0.56
2:E:1558:UNK:O	2:E:1559:UNK:C	2.54	0.56
1:G:1067:LEU:HG	1:G:1074:GLY:H	1.70	0.56
1:G:1110:LEU:HG	1:G:1188:GLN:CA	2.35	0.56
1:G:1200:ILE:HD12	1:G:1698:PHE:CE2	2.40	0.56
2:H:18:HIS:O	2:H:20:LEU:N	2.39	0.56
2:H:335:PRO:HA	2:H:420:PHE:CE2	2.40	0.56
2:H:1698:PHE:C	2:H:1700:ASP:N	2.58	0.56
1:A:525:UNK:O	1:A:526:UNK:C	2.54	0.56
1:A:908:LEU:O	1:A:913:VAL:HG11	2.05	0.56
1:A:1219:VAL:HA	1:A:1384:ILE:HG21	1.87	0.56
1:A:1260:MET:C	1:A:1261:PHE:HD2	2.09	0.56
1:A:1447:TYR:HE2	1:A:1450:ARG:CG	2.18	0.56
1:A:1459:ILE:HD12	1:A:1460:LYS:N	2.21	0.56
1:A:1542:HIS:HB2	1:A:1592:MET:HE1	1.88	0.56
1:A:1636:VAL:O	1:A:1637:ARG:HB2	2.05	0.56
1:A:1656:VAL:HG22	1:A:1657:HIS:N	2.20	0.56
2:B:1693:ARG:HD3	2:B:1825:GLU:OE2	2.06	0.56
2:B:1762:TYR:CD1	2:B:1763:THR:N	2.72	0.56
1:D:443:UNK:HA	1:D:722:TYR:CE2	2.41	0.56
1:D:529:UNK:O	1:D:533:UNK:N	2.38	0.56
1:D:693:LEU:O	1:D:694:GLN:C	2.44	0.56
1:D:999:LYS:O	1:D:1001:VAL:N	2.33	0.56
1:D:1028:GLY:HA3	1:D:1591:TRP:HZ2	1.71	0.56
1:D:1063:HIS:O	1:D:1065:GLY:N	2.34	0.56
1:D:1290:LEU:O	1:D:1291:LEU:HB2	2.06	0.56
1:D:1590:ALA:O	1:D:1593:MET:HB3	2.05	0.56
2:E:26:SER:O	2:E:29:ILE:HG22	2.05	0.56
2:E:100:ASP:OD1	2:E:102:HIS:HB2	2.04	0.56
2:E:862:UNK:HA	2:E:865:UNK:CB	2.35	0.56
2:E:1758:HIS:CD2	2:E:1759:SER:H	2.24	0.56
2:E:1842:VAL:O	2:E:1842:VAL:HG12	2.04	0.56
1:G:1110:LEU:CD1	1:G:1188:GLN:N	2.68	0.56
1:G:1691:GLY:HA2	1:G:1696:LYS:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:41:LEU:N	2:H:42:PRO:HD2	2.19	0.56
2:H:63:LYS:O	2:H:66:GLY:N	2.39	0.56
2:H:349:VAL:CG2	2:H:377:LEU:HD13	2.32	0.56
2:H:601:UNK:HA	2:H:604:UNK:CB	2.36	0.56
2:H:1877:ARG:HG2	2:H:1929:LYS:CD	2.36	0.56
1:A:1069:GLY:O	1:A:1070:ARG:C	2.44	0.56
1:A:1370:THR:H	1:A:1547:LYS:CD	2.17	0.56
1:A:1403:ILE:HG23	1:A:1656:VAL:CG1	2.27	0.56
2:B:333:GLY:O	2:B:334:VAL:C	2.43	0.56
2:B:1262:UNK:O	2:B:1263:UNK:C	2.53	0.56
2:B:1458:UNK:O	2:B:1460:UNK:N	2.38	0.56
2:B:1602:UNK:C	2:B:1604:UNK:N	2.67	0.56
2:B:1751:ILE:HG21	2:B:1836:MET:SD	2.46	0.56
2:B:1754:GLU:C	2:B:1756:ASN:H	2.08	0.56
2:B:1789:PHE:CZ	2:B:1818:LEU:HD23	2.40	0.56
1:D:681:THR:HG22	1:D:771:PHE:O	2.06	0.56
1:D:815:ILE:O	1:D:815:ILE:HG22	2.04	0.56
1:D:959:ILE:O	1:D:963:LEU:HB2	2.05	0.56
1:D:1069:GLY:O	1:D:1070:ARG:C	2.44	0.56
1:D:1247:SER:O	1:D:1301:PRO:CD	2.54	0.56
1:D:1392:LEU:H	1:D:1392:LEU:CD2	2.18	0.56
1:D:1394:LEU:HD11	1:D:1661:LEU:CD2	2.36	0.56
1:D:1579:PHE:CD2	1:D:1609:ARG:O	2.59	0.56
2:E:387:TYR:O	2:E:390:ASN:HB2	2.05	0.56
2:E:1328:UNK:O	2:E:1332:UNK:N	2.39	0.56
2:E:1458:UNK:O	2:E:1460:UNK:N	2.38	0.56
2:E:1720:HIS:C	2:E:1721:PHE:CD1	2.78	0.56
2:E:1877:ARG:HG2	2:E:1929:LYS:CD	2.36	0.56
1:G:717:TYR:HD2	1:G:718:TYR:CD1	2.23	0.56
1:G:771:PHE:O	1:G:772:ALA:O	2.23	0.56
1:G:815:ILE:HG22	1:G:815:ILE:O	2.06	0.56
1:G:949:GLU:O	1:G:953:VAL:HG23	2.05	0.56
1:G:1242:GLU:O	1:G:1243:VAL:HG13	2.05	0.56
2:H:240:LEU:HA	2:H:243:VAL:CG2	2.36	0.56
2:H:473:GLY:O	2:H:477:GLU:HB3	2.05	0.56
2:H:527:VAL:HG22	2:H:540:ASP:O	2.06	0.56
2:H:969:UNK:O	2:H:970:UNK:C	2.54	0.56
1:A:1067:LEU:HG	1:A:1074:GLY:H	1.71	0.56
1:A:1096:SER:C	1:A:1098:LEU:N	2.59	0.56
1:A:1105:LEU:HB3	1:A:1111:PHE:HE2	1.70	0.56
1:A:1173:LEU:O	1:A:1174:TYR:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1220:VAL:HG21	1:A:1698:PHE:HD1	1.69	0.56
1:A:1254:VAL:C	1:A:1256:ALA:N	2.49	0.56
1:A:1691:GLY:O	1:A:1695:ASN:N	2.38	0.56
2:B:932:UNK:O	2:B:934:UNK:N	2.39	0.56
2:B:1907:LEU:H	2:B:1907:LEU:CD2	2.10	0.56
1:D:432:UNK:O	1:D:433:UNK:CB	2.53	0.56
1:D:563:UNK:C	1:D:565:UNK:N	2.68	0.56
1:D:771:PHE:O	1:D:772:ALA:O	2.24	0.56
1:D:1119:LYS:C	1:D:1121:MET:N	2.59	0.56
1:D:1131:LEU:CB	1:D:1133:PRO:HD3	2.31	0.56
1:D:1159:GLU:O	1:D:1166:LYS:HB3	2.06	0.56
1:D:1219:VAL:HG23	1:D:1328:ILE:HD11	1.88	0.56
1:D:1605:ILE:HG13	1:D:1628:SER:CB	2.36	0.56
2:E:235:PRO:O	2:E:236:ILE:CB	2.54	0.56
2:E:267:LEU:HG	2:E:457:ILE:CD1	2.35	0.56
2:E:1729:ILE:HG23	2:E:1730:ARG:N	2.13	0.56
2:E:1751:ILE:HG21	2:E:1836:MET:SD	2.46	0.56
2:E:1859:PRO:HB3	2:E:1863:ALA:CB	2.35	0.56
2:E:1927:LEU:HA	2:E:1930:SER:CB	2.36	0.56
1:G:239:UNK:O	1:G:241:UNK:N	2.39	0.56
1:G:911:PRO:O	1:G:912:GLU:HB2	2.05	0.56
1:G:1073:THR:CG2	1:G:1074:GLY:N	2.68	0.56
1:G:1126:ILE:CG2	1:G:1127:VAL:N	2.68	0.56
1:G:1158:PRO:O	1:G:1167:LEU:HB3	2.06	0.56
1:G:1419:PRO:O	1:G:1420:ALA:HB2	2.06	0.56
1:G:1541:PHE:CG	1:G:1576:PHE:HE1	2.23	0.56
2:H:41:LEU:HD22	2:H:47:GLY:N	2.21	0.56
2:H:292:PHE:O	2:H:295:SER:HB3	2.05	0.56
2:H:1672:GLN:HE21	2:H:1777:THR:HG21	1.71	0.56
2:H:1760:THR:O	2:H:1761:SER:OG	2.23	0.56
2:H:1908:ASP:O	2:H:1911:THR:HG22	2.06	0.56
1:A:911:PRO:O	1:A:912:GLU:HB2	2.06	0.56
1:A:1140:THR:HA	1:A:1165:VAL:HB	1.86	0.56
1:A:1223:PHE:HE2	1:A:1386:ILE:CG2	2.10	0.56
1:A:1471:LYS:HA	1:A:1474:ALA:HB2	1.88	0.56
1:A:1579:PHE:O	1:A:1580:LEU:CB	2.52	0.56
2:B:16:LEU:HG	2:E:20:LEU:HD21	1.87	0.56
2:B:41:LEU:CB	2:B:46:GLU:H	2.14	0.56
2:B:450:PHE:CD1	2:B:451:ASN:N	2.63	0.56
2:B:601:UNK:HA	2:B:604:UNK:CB	2.36	0.56
2:B:922:UNK:C	2:B:924:UNK:N	2.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1911:THR:C	2:B:1913:VAL:H	2.09	0.56
1:D:493:UNK:O	1:D:495:UNK:N	2.39	0.56
1:D:901:MET:O	1:D:901:MET:HG2	2.06	0.56
1:D:1685:TYR:HE2	2:E:966:UNK:CB	2.19	0.56
2:E:41:LEU:HD22	2:E:47:GLY:N	2.20	0.56
2:E:334:VAL:O	2:E:420:PHE:CD2	2.56	0.56
2:E:494:THR:HB	2:E:520:LYS:HZ2	1.68	0.56
2:E:916:UNK:O	2:E:920:UNK:N	2.39	0.56
2:E:1961:UNK:O	2:E:1963:UNK:N	2.39	0.56
3:F:27:UNK:C	3:F:29:UNK:N	2.68	0.56
1:G:893:VAL:O	1:G:895:THR:N	2.34	0.56
1:G:1122:ILE:HA	1:G:1182:ASP:O	2.06	0.56
1:G:1685:TYR:O	1:G:1685:TYR:CD1	2.58	0.56
1:G:1711:GLU:CG	1:G:1715:TYR:HE1	2.10	0.56
2:H:241:ILE:HG22	2:H:242:GLY:H	1.70	0.56
2:H:1664:UNK:HA	3:I:18:UNK:CB	2.34	0.56
2:H:1762:TYR:CD1	2:H:1763:THR:N	2.73	0.56
2:H:1788:ALA:O	2:H:1792:LEU:HG	2.06	0.56
1:A:797:THR:O	1:A:800:LEU:N	2.39	0.56
1:A:1028:GLY:HA3	1:A:1591:TRP:HZ2	1.71	0.56
1:A:1031:GLY:O	1:A:1032:SER:C	2.45	0.56
1:A:1067:LEU:CG	1:A:1073:THR:HG23	2.25	0.56
1:A:1101:SER:O	1:A:1103:ILE:N	2.39	0.56
1:A:1327:CYS:HB3	1:A:1387:ILE:HD11	1.88	0.56
1:A:1463:VAL:HG12	1:A:1464:GLU:N	2.21	0.56
2:B:148:ALA:HB1	2:B:154:ALA:HB3	1.87	0.56
2:B:490:TRP:CH2	2:B:512:LEU:HD13	2.41	0.56
2:B:541:TYR:O	2:B:543:PHE:N	2.32	0.56
2:B:969:UNK:O	2:B:970:UNK:C	2.54	0.56
2:B:1859:PRO:HB3	2:B:1863:ALA:CB	2.36	0.56
2:B:1924:ILE:C	2:B:1926:GLU:H	2.08	0.56
1:D:901:MET:CE	1:D:905:LEU:HD23	2.36	0.56
1:D:1012:LEU:HD11	1:D:1015:LEU:HD12	1.88	0.56
1:D:1455:ARG:HG3	1:D:1459:ILE:HG21	1.88	0.56
1:D:1464:GLU:HG2	1:D:1773:UNK:N	2.21	0.56
1:D:1722:VAL:CB	1:D:1731:LEU:HG	2.35	0.56
2:E:528:ILE:H	2:E:541:TYR:HB2	1.69	0.56
2:E:1379:UNK:HA	2:E:1425:UNK:O	2.06	0.56
1:G:445:UNK:O	1:G:447:UNK:N	2.38	0.56
1:G:679:LEU:HA	1:G:704:VAL:O	2.06	0.56
1:G:1096:SER:C	1:G:1098:LEU:N	2.59	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1140:THR:HA	1:G:1165:VAL:HB	1.87	0.56
1:G:1340:SER:O	1:G:1341:PHE:CB	2.53	0.56
1:G:1394:LEU:HD11	1:G:1661:LEU:CD2	2.35	0.56
1:G:1462:TRP:HA	1:G:1465:ASN:HB3	1.88	0.56
1:G:1539:ALA:HA	1:G:1640:SER:O	2.05	0.56
1:G:1599:ILE:O	1:G:1600:LEU:O	2.24	0.56
2:H:135:ARG:N	2:H:136:PRO:HD3	2.21	0.56
2:H:347:GLU:O	2:H:351:ASP:N	2.39	0.56
2:H:1789:PHE:O	2:H:1792:LEU:N	2.36	0.56
2:H:2036:UNK:C	2:H:2038:UNK:N	2.67	0.56
1:A:412:UNK:C	1:A:414:UNK:N	2.69	0.56
1:A:752:ILE:CA	1:A:761:LEU:HD23	2.26	0.56
1:A:907:GLY:O	1:A:909:LEU:N	2.39	0.56
1:A:1126:ILE:CG2	1:A:1127:VAL:N	2.69	0.56
1:A:1138:LYS:O	1:A:1139:GLU:HB3	2.05	0.56
1:A:1188:GLN:O	1:A:1189:ILE:HD13	2.06	0.56
1:A:1274:ILE:C	1:A:1276:GLN:H	2.07	0.56
1:A:1403:ILE:O	1:A:1655:VAL:HG22	2.06	0.56
2:B:63:LYS:O	2:B:66:GLY:N	2.39	0.56
2:B:357:ASN:HA	2:B:360:LEU:HB2	1.88	0.56
2:B:474:SER:O	2:B:475:ILE:HB	2.06	0.56
2:B:577:UNK:O	2:B:578:UNK:C	2.52	0.56
2:B:582:UNK:O	2:B:583:UNK:CB	2.54	0.56
2:B:1019:UNK:C	2:B:1021:UNK:N	2.68	0.56
1:D:394:UNK:O	1:D:395:UNK:C	2.54	0.56
1:D:635:UNK:O	1:D:636:UNK:CB	2.54	0.56
1:D:680:ILE:HA	1:D:769:ILE:HG23	1.88	0.56
1:D:710:PHE:HD1	1:D:736:PRO:HB3	1.69	0.56
1:D:1188:GLN:NE2	1:D:1352:THR:OG1	2.26	0.56
1:D:1261:PHE:N	1:D:1261:PHE:HD2	2.03	0.56
1:D:1299:LYS:O	1:D:1300:THR:HB	2.06	0.56
1:D:1378:GLU:HA	1:D:1583:HIS:CB	2.35	0.56
1:D:1553:GLU:CA	1:D:1556:THR:HB	2.36	0.56
1:D:1636:VAL:HG13	1:D:1657:HIS:CD2	2.40	0.56
2:E:183:LEU:O	2:E:184:VAL:HB	2.06	0.56
2:E:915:UNK:O	2:E:917:UNK:N	2.39	0.56
2:E:1539:UNK:O	2:E:1540:UNK:C	2.53	0.56
1:G:418:UNK:O	1:G:419:UNK:C	2.53	0.56
1:G:771:PHE:N	1:G:771:PHE:CD1	2.73	0.56
1:G:1057:MET:CE	1:G:1106:ILE:HD11	2.36	0.56
1:G:1068:LYS:O	1:G:1069:GLY:O	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1101:SER:O	1:G:1103:ILE:N	2.39	0.56
1:G:1299:LYS:O	1:G:1300:THR:HB	2.05	0.56
1:G:1425:ILE:O	1:G:1425:ILE:HG22	2.06	0.56
1:G:1455:ARG:HG3	1:G:1459:ILE:HG21	1.88	0.56
1:G:1471:LYS:HA	1:G:1474:ALA:HB2	1.88	0.56
1:G:1538:VAL:HA	1:G:1573:ILE:O	2.06	0.56
2:H:56:THR:HA	2:H:59:GLU:HG2	1.88	0.56
2:H:541:TYR:O	2:H:543:PHE:N	2.33	0.56
2:H:1770:LEU:C	2:H:1772:SER:N	2.59	0.56
1:A:1200:ILE:HD12	1:A:1698:PHE:CE2	2.41	0.55
1:A:1349:THR:HG22	1:A:1350:SER:N	2.21	0.55
1:A:1536:LEU:H	1:A:1536:LEU:CD1	2.11	0.55
2:B:382:PRO:HG2	2:B:385:SER:OG	2.05	0.55
2:B:1842:VAL:O	2:B:1842:VAL:HG12	2.05	0.55
2:B:1867:SER:HA	2:B:1870:ALA:CB	2.36	0.55
2:B:1927:LEU:HA	2:B:1930:SER:CB	2.36	0.55
2:B:1948:UNK:O	2:B:1949:UNK:CB	2.53	0.55
1:D:705:VAL:HG23	1:D:732:LEU:HD11	1.88	0.55
1:D:771:PHE:N	1:D:771:PHE:HD1	2.04	0.55
1:D:907:GLY:O	1:D:909:LEU:N	2.39	0.55
1:D:1151:LYS:CG	1:D:1175:ILE:HD13	2.36	0.55
1:D:1332:TYR:HA	1:D:1587:ALA:HB2	1.88	0.55
1:D:1447:TYR:C	1:D:1449:LYS:N	2.59	0.55
1:D:1511:ASP:O	1:D:1512:PHE:C	2.42	0.55
2:E:395:LYS:O	2:E:396:ALA:HB2	2.06	0.55
2:E:1672:GLN:HE21	2:E:1777:THR:HG21	1.69	0.55
1:G:471:UNK:HA	1:G:474:UNK:CB	2.36	0.55
1:G:1151:LYS:HG3	1:G:1175:ILE:CD1	2.37	0.55
1:G:1426:LEU:HD13	1:G:1651:GLY:N	2.21	0.55
1:G:1464:GLU:HG2	1:G:1773:UNK:N	2.21	0.55
1:G:1475:GLU:O	1:G:1478:PRO:HD2	2.07	0.55
1:G:1530:GLY:O	1:G:1531:LEU:O	2.24	0.55
1:G:1654:ILE:CG1	1:G:1655:VAL:N	2.69	0.55
1:G:1656:VAL:HG22	1:G:1657:HIS:N	2.20	0.55
2:H:1328:UNK:O	2:H:1332:UNK:N	2.39	0.55
1:A:574:UNK:C	1:A:576:UNK:N	2.62	0.55
1:A:584:UNK:O	1:A:585:UNK:O	2.24	0.55
1:A:769:ILE:HB	1:A:823:ILE:CD1	2.36	0.55
1:A:917:CYS:SG	1:A:922:VAL:HB	2.46	0.55
1:A:927:ASN:ND2	1:A:931:GLN:H	2.03	0.55
1:A:1036:ARG:HD3	1:A:1037:TRP:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1387:ILE:O	1:A:1387:ILE:HD12	2.06	0.55
1:A:1600:LEU:O	1:A:1601:ASN:C	2.44	0.55
2:B:214:ASN:C	2:B:216:LEU:H	2.09	0.55
2:B:335:PRO:HA	2:B:420:PHE:CE2	2.40	0.55
2:B:1483:UNK:O	2:B:1484:UNK:CB	2.55	0.55
2:B:1753:LYS:O	2:B:1755:ILE:HG12	2.06	0.55
1:D:584:UNK:O	1:D:585:UNK:O	2.24	0.55
1:D:755:THR:HG22	1:D:757:LYS:N	2.07	0.55
1:D:949:GLU:O	1:D:953:VAL:HG23	2.07	0.55
1:D:1205:ILE:O	1:D:1205:ILE:HG13	2.05	0.55
2:E:40:ILE:O	2:E:40:ILE:HG22	2.05	0.55
2:E:1804:PHE:CE2	2:E:1818:LEU:HB2	2.41	0.55
2:E:1912:ASN:O	2:E:1913:VAL:HG22	2.06	0.55
1:G:1036:ARG:HD3	1:G:1037:TRP:N	2.21	0.55
1:G:1189:ILE:CD1	1:G:1352:THR:HG23	2.34	0.55
1:G:1332:TYR:HA	1:G:1587:ALA:HB2	1.87	0.55
1:G:1364:GLU:OE1	1:G:1367:ARG:NH1	2.39	0.55
1:G:1398:VAL:HG12	1:G:1673:TYR:CE1	2.37	0.55
1:G:1447:TYR:C	1:G:1449:LYS:N	2.59	0.55
1:G:1463:VAL:HG12	1:G:1464:GLU:N	2.20	0.55
2:H:144:ALA:C	2:H:146:PHE:N	2.56	0.55
2:H:184:VAL:O	2:H:188:ILE:HG12	2.06	0.55
2:H:273:HIS:CB	2:H:512:LEU:HD11	2.36	0.55
2:H:384:GLN:O	2:H:385:SER:C	2.42	0.55
2:H:1019:UNK:C	2:H:1021:UNK:N	2.69	0.55
2:H:1162:UNK:C	2:H:1164:UNK:H	2.18	0.55
2:H:1458:UNK:C	2:H:1460:UNK:N	2.68	0.55
2:H:1705:SER:OG	2:H:1708:ASP:HB2	2.06	0.55
3:I:61:UNK:O	3:I:62:UNK:CB	2.55	0.55
1:A:537:UNK:CB	1:A:585:UNK:CB	2.84	0.55
1:A:679:LEU:O	1:A:679:LEU:CD1	2.54	0.55
1:A:693:LEU:O	1:A:694:GLN:C	2.45	0.55
1:A:1094:GLU:HG3	1:A:1095:THR:N	2.22	0.55
1:A:1099:GLU:O	1:A:1101:SER:N	2.39	0.55
1:A:1308:SER:OG	1:A:1590:ALA:N	2.34	0.55
1:A:1419:PRO:O	1:A:1420:ALA:HB2	2.06	0.55
1:A:1444:ASN:N	1:A:1444:ASN:ND2	2.49	0.55
1:A:1511:ASP:O	1:A:1512:PHE:C	2.44	0.55
1:A:1525:ALA:C	1:A:1527:ALA:H	2.09	0.55
1:A:1562:LYS:HZ3	1:A:1621:PHE:HZ	1.51	0.55
1:A:1583:HIS:CD2	1:A:1584:PRO:HA	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1658:PRO:O	1:A:1660:TYR:N	2.36	0.55
2:B:26:SER:O	2:B:29:ILE:HG22	2.07	0.55
2:B:59:GLU:OE1	2:B:122:LEU:HG	2.05	0.55
2:B:100:ASP:OD1	2:B:102:HIS:N	2.40	0.55
2:B:170:PHE:CB	2:B:231:LEU:HD21	2.37	0.55
2:B:347:GLU:O	2:B:351:ASP:N	2.38	0.55
2:B:527:VAL:HG22	2:B:540:ASP:O	2.05	0.55
1:D:723:ALA:O	1:D:724:LYS:HB2	2.06	0.55
1:D:1045:PHE:HB3	1:D:1050:CYS:N	2.21	0.55
1:D:1104:ARG:O	1:D:1105:LEU:CG	2.55	0.55
1:D:1408:ALA:HA	1:D:1652:GLN:O	2.06	0.55
1:D:1471:LYS:HA	1:D:1474:ALA:HB2	1.88	0.55
1:D:1532:THR:C	1:D:1534:ASP:N	2.58	0.55
2:E:932:UNK:O	2:E:934:UNK:N	2.39	0.55
2:E:1066:UNK:O	2:E:1067:UNK:O	2.23	0.55
2:E:1871:LEU:C	2:E:1873:TYR:H	2.10	0.55
2:E:1924:ILE:C	2:E:1926:GLU:H	2.10	0.55
2:E:1948:UNK:O	2:E:1949:UNK:CB	2.54	0.55
1:G:884:ILE:CG2	1:G:887:GLY:HA3	2.36	0.55
1:G:1041:ALA:O	1:G:1627:PRO:HG3	2.06	0.55
1:G:1052:GLU:O	1:G:1056:ILE:HG13	2.06	0.55
1:G:1119:LYS:C	1:G:1121:MET:N	2.60	0.55
1:G:1412:ASP:HB2	1:G:1425:ILE:C	2.26	0.55
2:H:40:ILE:O	2:H:40:ILE:HG22	2.07	0.55
2:H:222:PRO:HA	2:H:225:THR:OG1	2.05	0.55
2:H:1721:PHE:CD1	2:H:1721:PHE:N	2.73	0.55
2:H:1754:GLU:C	2:H:1756:ASN:H	2.09	0.55
2:H:1867:SER:HA	2:H:1870:ALA:CB	2.36	0.55
2:H:1924:ILE:C	2:H:1926:GLU:H	2.09	0.55
1:A:1008:GLU:C	1:A:1010:GLU:N	2.59	0.55
1:A:1068:LYS:O	1:A:1069:GLY:O	2.25	0.55
1:A:1158:PRO:O	1:A:1167:LEU:HB3	2.05	0.55
1:A:1245:ASN:ND2	1:A:1288:ASN:ND2	2.54	0.55
1:A:1403:ILE:HD11	1:A:1529:TYR:OH	2.06	0.55
2:B:209:PHE:CD2	2:B:213:LEU:HD22	2.42	0.55
2:B:351:ASP:O	2:B:354:ASN:HB2	2.06	0.55
2:B:1322:UNK:O	2:B:1324:UNK:N	2.40	0.55
2:B:1714:PRO:O	2:B:1715:VAL:O	2.25	0.55
2:B:1758:HIS:CD2	2:B:1759:SER:H	2.23	0.55
1:D:866:GLY:O	1:D:867:ALA:CB	2.53	0.55
1:D:1011:GLY:O	1:D:1663:GLY:HA3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1158:PRO:O	1:D:1167:LEU:HB3	2.06	0.55
1:D:1412:ASP:O	1:D:1648:GLN:OE1	2.24	0.55
1:D:1577:GLN:OE1	1:D:1592:MET:HA	2.06	0.55
2:E:49:ALA:N	2:E:118:LYS:HZ2	2.04	0.55
2:E:69:SER:HA	2:E:80:PHE:CB	2.35	0.55
2:E:238:CYS:N	2:E:239:PRO:HD2	2.22	0.55
2:E:259:THR:CG2	2:E:260:PRO:HD2	2.36	0.55
2:E:678:UNK:O	2:E:682:UNK:N	2.39	0.55
2:E:1295:UNK:C	2:E:1297:UNK:N	2.65	0.55
2:E:1458:UNK:C	2:E:1460:UNK:N	2.68	0.55
3:F:11:UNK:C	3:F:13:UNK:N	2.69	0.55
1:G:998:TYR:O	1:G:999:LYS:O	2.24	0.55
1:G:1127:VAL:HG21	1:G:1180:ARG:HG3	1.88	0.55
1:G:1397:GLY:H	1:G:1676:LYS:CB	2.20	0.55
1:G:1553:GLU:HA	1:G:1556:THR:HB	1.88	0.55
2:H:59:GLU:OE1	2:H:122:LEU:HG	2.06	0.55
2:H:264:ARG:HD3	2:H:286:THR:O	2.07	0.55
2:H:333:GLY:O	2:H:334:VAL:C	2.43	0.55
2:H:1455:UNK:O	2:H:1457:UNK:N	2.39	0.55
2:H:1705:SER:O	2:H:1709:ILE:HG12	2.07	0.55
1:A:723:ALA:O	1:A:724:LYS:HB2	2.07	0.55
1:A:774:ILE:HD13	1:A:775:PRO:HD2	1.88	0.55
1:A:927:ASN:O	1:A:929:GLY:N	2.35	0.55
1:A:1067:LEU:CG	1:A:1068:LYS:N	2.67	0.55
1:A:1079:LYS:HG2	1:A:1080:THR:N	2.20	0.55
1:A:1475:GLU:O	1:A:1478:PRO:HD2	2.06	0.55
1:A:1546:THR:CG2	1:A:1549:ASN:HB3	2.37	0.55
1:A:1599:ILE:O	1:A:1600:LEU:O	2.24	0.55
1:A:1641:ILE:HD11	1:A:1653:ALA:O	2.07	0.55
1:A:1697:LEU:H	1:A:1697:LEU:CD1	2.03	0.55
2:B:267:LEU:HG	2:B:268:LYS:H	1.71	0.55
2:B:1672:GLN:HB2	2:B:1676:MET:CE	2.36	0.55
3:C:11:UNK:C	3:C:13:UNK:N	2.69	0.55
1:D:453:UNK:C	1:D:455:UNK:N	2.68	0.55
1:D:890:LYS:O	1:D:892:GLY:N	2.35	0.55
1:D:1030:TRP:HB2	1:D:1036:ARG:HB3	1.89	0.55
1:D:1101:SER:O	1:D:1103:ILE:N	2.39	0.55
1:D:1118:LYS:HG3	1:D:1120:GLU:HG2	1.88	0.55
1:D:1131:LEU:CA	1:D:1173:LEU:HD22	2.35	0.55
1:D:1208:VAL:HG12	1:D:1286:TRP:CZ3	2.41	0.55
1:D:1214:PHE:C	1:D:1218:SER:HG	2.10	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1335:PHE:HE1	1:D:1340:SER:CB	2.10	0.55
1:D:1381:GLY:O	1:D:1382:ALA:HB2	2.07	0.55
1:D:1691:GLY:O	1:D:1695:ASN:N	2.40	0.55
2:E:1:MET:CB	2:E:11:LEU:HB2	2.29	0.55
2:E:350:GLN:O	2:E:351:ASP:C	2.45	0.55
2:E:601:UNK:HA	2:E:604:UNK:CB	2.35	0.55
2:E:922:UNK:C	2:E:924:UNK:N	2.67	0.55
2:E:969:UNK:O	2:E:970:UNK:C	2.55	0.55
2:E:1141:UNK:O	2:E:1142:UNK:CB	2.54	0.55
2:E:1650:UNK:C	2:E:1652:UNK:N	2.69	0.55
2:E:1685:LYS:HA	2:E:1688:GLN:HB2	1.89	0.55
3:F:61:UNK:O	3:F:62:UNK:CB	2.55	0.55
1:G:803:MET:HB3	1:G:862:LEU:HD11	1.89	0.55
1:G:871:TRP:HZ2	1:G:881:ASN:HB2	1.71	0.55
1:G:904:ASN:O	1:G:905:LEU:C	2.45	0.55
1:G:970:GLY:O	1:G:971:ASN:HB2	2.06	0.55
1:G:1012:LEU:CD1	1:G:1015:LEU:HD12	2.36	0.55
1:G:1208:VAL:HB	1:G:1212:THR:HG21	1.87	0.55
1:G:1471:LYS:O	1:G:1474:ALA:HB2	2.07	0.55
1:G:1542:HIS:HA	1:G:1578:LYS:HE2	1.87	0.55
1:G:1542:HIS:HB2	1:G:1592:MET:HE1	1.87	0.55
2:H:60:LEU:H	2:H:60:LEU:HD12	1.72	0.55
2:H:350:GLN:O	2:H:351:ASP:C	2.44	0.55
2:H:1264:UNK:O	2:H:1266:UNK:N	2.40	0.55
2:H:1322:UNK:O	2:H:1324:UNK:N	2.39	0.55
2:H:1469:UNK:N	2:H:1493:UNK:O	2.38	0.55
2:H:1672:GLN:HB2	2:H:1676:MET:CE	2.36	0.55
3:I:18:UNK:O	3:I:19:UNK:CB	2.54	0.55
1:A:928:GLY:C	1:A:930:LEU:N	2.59	0.55
1:A:1084:VAL:C	1:A:1086:ASP:N	2.57	0.55
1:A:1144:PHE:O	1:A:1145:LYS:C	2.44	0.55
1:A:1205:ILE:HG13	1:A:1205:ILE:O	2.06	0.55
1:A:1215:VAL:HG11	1:A:1283:MET:CG	2.37	0.55
1:A:1532:THR:OG1	1:A:1535:ASP:CB	2.55	0.55
2:B:13:HIS:C	2:B:15:SER:H	2.09	0.55
2:B:187:LEU:CD2	2:B:296:VAL:HG11	2.37	0.55
2:B:234:ILE:HD11	2:B:307:GLY:HA2	1.89	0.55
2:B:273:HIS:CB	2:B:512:LEU:HD11	2.36	0.55
2:B:678:UNK:O	2:B:682:UNK:N	2.39	0.55
2:B:1340:UNK:O	2:B:1341:UNK:C	2.54	0.55
2:B:1485:UNK:HA	2:B:1512:UNK:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1539:UNK:O	2:B:1540:UNK:C	2.53	0.55
2:B:1705:SER:OG	2:B:1708:ASP:HB2	2.07	0.55
2:B:1788:ALA:O	2:B:1792:LEU:HG	2.07	0.55
1:D:769:ILE:HB	1:D:823:ILE:CD1	2.36	0.55
1:D:1014:ASP:O	1:D:1015:LEU:O	2.25	0.55
1:D:1403:ILE:CG2	1:D:1656:VAL:O	2.55	0.55
1:D:1464:GLU:HA	1:D:1467:LEU:CD1	2.27	0.55
2:E:242:GLY:HA2	2:E:245:GLN:NE2	2.16	0.55
2:E:1714:PRO:O	2:E:1715:VAL:O	2.25	0.55
2:E:1789:PHE:CZ	2:E:1818:LEU:HD23	2.41	0.55
1:G:873:ARG:NH1	1:G:883:ILE:N	2.55	0.55
1:G:1187:GLY:N	1:G:1188:GLN:NE2	2.55	0.55
1:G:1187:GLY:O	1:G:1189:ILE:HG12	2.06	0.55
1:G:1198:TYR:CE2	1:G:1217:VAL:HG11	2.42	0.55
1:G:1392:LEU:H	1:G:1392:LEU:CD2	2.18	0.55
1:G:1403:ILE:HD11	1:G:1529:TYR:OH	2.06	0.55
1:G:1430:ARG:CG	1:G:1431:GLU:H	2.17	0.55
1:G:1459:ILE:HD12	1:G:1460:LYS:N	2.22	0.55
1:G:1717:ASP:C	1:G:1719:LEU:N	2.60	0.55
2:H:466:SER:C	2:H:468:LEU:N	2.60	0.55
2:H:587:UNK:O	2:H:784:UNK:CB	2.54	0.55
2:H:699:UNK:O	2:H:700:UNK:C	2.52	0.55
2:H:932:UNK:O	2:H:934:UNK:N	2.39	0.55
2:H:1698:PHE:HE1	2:H:1828:VAL:CG2	2.19	0.55
2:H:1715:VAL:CG2	2:H:1716:ASN:H	2.07	0.55
2:H:1799:PRO:O	2:H:1801:ASP:N	2.40	0.55
1:A:547:UNK:O	1:A:549:UNK:N	2.40	0.55
1:A:771:PHE:CE1	1:A:825:PRO:HD3	2.42	0.55
1:A:949:GLU:O	1:A:953:VAL:HG23	2.06	0.55
1:A:1057:MET:HE3	1:A:1193:TRP:O	2.07	0.55
1:A:1119:LYS:C	1:A:1121:MET:N	2.59	0.55
1:A:1359:GLY:O	1:A:1360:ARG:O	2.25	0.55
1:A:1394:LEU:HD11	1:A:1661:LEU:CD2	2.37	0.55
1:A:1659:ASP:C	1:A:1661:LEU:H	2.09	0.55
2:B:132:MET:O	2:B:133:ALA:HB3	2.06	0.55
2:B:273:HIS:HB3	2:B:512:LEU:HD11	1.89	0.55
2:B:292:PHE:O	2:B:295:SER:HB3	2.07	0.55
2:B:319:LEU:HD21	2:B:335:PRO:HG3	1.87	0.55
2:B:404:GLN:HG3	2:B:408:PRO:CG	2.31	0.55
2:B:426:PRO:O	2:B:429:SER:HB3	2.06	0.55
2:B:473:GLY:O	2:B:477:GLU:HB3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:483:ILE:CG2	2:B:484:ILE:HG23	2.32	0.55
2:B:916:UNK:O	2:B:920:UNK:N	2.40	0.55
2:B:1307:UNK:C	2:B:1309:UNK:N	2.70	0.55
2:B:1770:LEU:C	2:B:1772:SER:N	2.60	0.55
1:D:804:GLY:O	1:D:807:LYS:HB3	2.07	0.55
1:D:1370:THR:O	1:D:1371:THR:HB	2.06	0.55
1:D:1463:VAL:HG12	1:D:1464:GLU:N	2.21	0.55
1:D:1600:LEU:O	1:D:1601:ASN:C	2.43	0.55
2:E:56:THR:HA	2:E:59:GLU:HG2	1.89	0.55
2:E:187:LEU:CD2	2:E:296:VAL:HG11	2.37	0.55
2:E:264:ARG:HD3	2:E:286:THR:O	2.06	0.55
2:E:382:PRO:HG2	2:E:385:SER:OG	2.06	0.55
2:E:474:SER:O	2:E:475:ILE:HB	2.07	0.55
2:E:699:UNK:O	2:E:700:UNK:C	2.53	0.55
2:E:1455:UNK:O	2:E:1457:UNK:N	2.39	0.55
2:E:1469:UNK:N	2:E:1493:UNK:O	2.39	0.55
2:E:2038:UNK:HA	2:E:2041:UNK:CB	2.37	0.55
1:G:917:CYS:SG	1:G:922:VAL:HB	2.46	0.55
1:G:1152:VAL:C	1:G:1154:ILE:N	2.60	0.55
1:G:1250:GLY:HA3	1:G:1333:ASP:OD2	2.06	0.55
1:G:1558:ASN:ND2	1:G:1620:GLN:HB3	2.22	0.55
1:G:1690:ASN:O	1:G:1693:ILE:HG12	2.07	0.55
2:H:78:GLY:O	2:H:79:GLN:C	2.44	0.55
2:H:187:LEU:CD2	2:H:296:VAL:HG11	2.36	0.55
2:H:494:THR:HB	2:H:520:LYS:HZ1	1.72	0.55
2:H:540:ASP:HB2	2:H:544:LYS:HZ2	1.71	0.55
2:H:1845:ASP:C	2:H:1847:LEU:H	2.10	0.55
1:A:460:UNK:C	1:A:462:UNK:N	2.68	0.55
1:A:489:UNK:O	1:A:490:UNK:C	2.53	0.55
1:A:970:GLY:O	1:A:971:ASN:HB2	2.07	0.55
1:A:1502:ARG:O	1:A:1505:GLN:N	2.40	0.55
2:B:56:THR:HA	2:B:59:GLU:HG2	1.88	0.55
2:B:466:SER:C	2:B:468:LEU:N	2.61	0.55
2:B:1844:ARG:HG2	2:B:1850:SER:HA	1.89	0.55
1:D:1096:SER:C	1:D:1098:LEU:N	2.61	0.55
1:D:1105:LEU:HB3	1:D:1111:PHE:HE2	1.72	0.55
1:D:1126:ILE:CG2	1:D:1177:LYS:HB3	2.37	0.55
1:D:1249:SER:OG	1:D:1250:GLY:N	2.39	0.55
1:D:1364:GLU:OE1	1:D:1367:ARG:NH1	2.39	0.55
1:D:1654:ILE:CG1	1:D:1655:VAL:N	2.70	0.55
2:E:184:VAL:O	2:E:188:ILE:HG12	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:535:ILE:HG22	2:E:536:ASN:OD1	2.07	0.55
2:E:755:UNK:O	2:E:756:UNK:CB	2.55	0.55
2:E:799:UNK:O	2:E:800:UNK:C	2.53	0.55
2:E:1605:UNK:O	2:E:1607:UNK:N	2.29	0.55
2:E:1762:TYR:C	2:E:1763:THR:HG1	2.09	0.55
2:E:1867:SER:HA	2:E:1870:ALA:CB	2.35	0.55
1:G:999:LYS:HD3	1:G:1671:ASN:HD21	1.70	0.55
1:G:1600:LEU:O	1:G:1601:ASN:C	2.44	0.55
2:H:98:GLY:O	2:H:100:ASP:N	2.37	0.55
2:H:273:HIS:HB3	2:H:512:LEU:HD11	1.89	0.55
2:H:306:ILE:O	2:H:310:CYS:SG	2.65	0.55
2:H:351:ASP:O	2:H:354:ASN:HB2	2.07	0.55
2:H:1485:UNK:HA	2:H:1512:UNK:HA	1.89	0.55
2:H:1907:LEU:HD23	2:H:1907:LEU:N	2.21	0.55
3:I:27:UNK:C	3:I:29:UNK:N	2.68	0.55
2:B:202:THR:O	2:B:203:LEU:C	2.46	0.55
2:B:251:VAL:O	2:B:255:LEU:HB3	2.06	0.55
2:B:431:LEU:N	2:B:431:LEU:HD23	2.21	0.55
2:B:1141:UNK:O	2:B:1142:UNK:CB	2.54	0.55
2:B:1789:PHE:CE1	2:B:1818:LEU:HD23	2.42	0.55
2:B:1961:UNK:O	2:B:1963:UNK:N	2.39	0.55
1:D:239:UNK:O	1:D:241:UNK:N	2.40	0.55
1:D:941:ALA:O	1:D:942:LYS:C	2.44	0.55
1:D:1151:LYS:HG3	1:D:1175:ILE:CD1	2.37	0.55
1:D:1187:GLY:O	1:D:1189:ILE:HG12	2.07	0.55
1:D:1403:ILE:HG23	1:D:1656:VAL:CG1	2.27	0.55
2:E:214:ASN:C	2:E:216:LEU:H	2.11	0.55
2:E:234:ILE:HD11	2:E:307:GLY:HA2	1.87	0.55
2:E:335:PRO:HA	2:E:420:PHE:CE2	2.41	0.55
2:E:339:LEU:HB2	2:E:420:PHE:CD1	2.41	0.55
2:E:347:GLU:O	2:E:351:ASP:N	2.37	0.55
2:E:799:UNK:C	2:E:801:UNK:N	2.66	0.55
2:E:1008:UNK:O	2:E:1011:UNK:N	2.40	0.55
2:E:1166:UNK:C	2:E:1168:UNK:H	2.19	0.55
2:E:1549:UNK:O	2:E:1550:UNK:C	2.54	0.55
2:E:1721:PHE:CD1	2:E:1721:PHE:N	2.74	0.55
2:E:1869:GLU:C	2:E:1871:LEU:N	2.60	0.55
3:F:37:UNK:O	3:F:39:UNK:N	2.39	0.55
1:G:448:UNK:O	1:G:450:UNK:N	2.40	0.55
1:G:644:UNK:C	1:G:646:UNK:N	2.68	0.55
1:G:791:ALA:CA	1:G:794:ILE:HG22	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:856:GLU:HB2	1:G:858:TRP:HE1	1.71	0.55
1:G:1332:TYR:CA	1:G:1587:ALA:HB2	2.37	0.55
1:G:1624:VAL:O	1:G:1625:LEU:HB3	2.06	0.55
2:H:100:ASP:OD1	2:H:102:HIS:N	2.37	0.55
2:H:234:ILE:HD11	2:H:307:GLY:HA2	1.89	0.55
2:H:1299:UNK:O	2:H:1301:UNK:N	2.39	0.55
2:H:1307:UNK:O	2:H:1309:UNK:N	2.39	0.55
2:H:1776:PHE:O	2:H:1777:THR:C	2.45	0.55
2:H:1844:ARG:HG2	2:H:1850:SER:HA	1.89	0.55
2:H:1869:GLU:C	2:H:1871:LEU:N	2.60	0.55
1:A:1127:VAL:HG21	1:A:1180:ARG:HG3	1.88	0.55
1:A:1151:LYS:H	1:A:1151:LYS:CD	2.17	0.55
1:A:1424:GLY:C	1:A:1426:LEU:H	2.09	0.55
2:B:135:ARG:N	2:B:136:PRO:CD	2.70	0.55
2:B:450:PHE:O	2:B:451:ASN:HB2	2.06	0.55
2:B:528:ILE:H	2:B:541:TYR:HB3	1.70	0.55
2:B:841:UNK:C	2:B:843:UNK:N	2.69	0.55
1:D:687:SER:HB2	1:D:899:LYS:CE	2.37	0.55
1:D:687:SER:HB2	1:D:899:LYS:HE3	1.88	0.55
1:D:704:VAL:HG22	1:D:733:ILE:HB	1.89	0.55
1:D:873:ARG:NH1	1:D:883:ILE:N	2.55	0.55
1:D:999:LYS:HD3	1:D:1671:ASN:HD21	1.72	0.55
1:D:1103:ILE:O	1:D:1106:ILE:HG13	2.07	0.55
1:D:1258:ARG:NH1	1:D:1263:ASP:OD2	2.40	0.55
1:D:1462:TRP:HA	1:D:1465:ASN:HB3	1.89	0.55
1:D:1735:SER:C	1:D:1737:ASN:N	2.60	0.55
2:E:18:HIS:O	2:E:20:LEU:N	2.39	0.55
2:E:100:ASP:OD1	2:E:102:HIS:N	2.37	0.55
2:E:241:ILE:HG22	2:E:242:GLY:H	1.71	0.55
2:E:267:LEU:HG	2:E:268:LYS:H	1.71	0.55
2:E:471:LEU:CG	2:E:472:SER:H	2.01	0.55
2:E:1034:UNK:C	2:E:1036:UNK:H	2.20	0.55
2:E:1562:UNK:O	2:E:1564:UNK:N	2.40	0.55
2:E:1845:ASP:C	2:E:1847:LEU:H	2.11	0.55
1:G:875:THR:OG1	1:G:879:SER:HB2	2.07	0.55
1:G:1041:ALA:HA	1:G:1606:PRO:HG3	1.88	0.55
1:G:1174:TYR:O	1:G:1175:ILE:HB	2.06	0.55
1:G:1219:VAL:HA	1:G:1384:ILE:HG21	1.87	0.55
1:G:1261:PHE:N	1:G:1261:PHE:HD2	2.05	0.55
2:H:357:ASN:HA	2:H:360:LEU:HB2	1.89	0.55
2:H:690:UNK:O	2:H:691:UNK:CB	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1291:UNK:CB	2:H:1369:UNK:N	2.70	0.55
2:H:1334:UNK:O	2:H:1335:UNK:C	2.54	0.55
1:A:364:UNK:O	1:D:365:UNK:CB	2.55	0.54
1:A:755:THR:HG22	1:A:757:LYS:N	2.09	0.54
1:A:791:ALA:HA	1:A:794:ILE:CG2	2.36	0.54
1:A:852:ARG:NH1	1:A:856:GLU:OE1	2.41	0.54
1:A:856:GLU:HB2	1:A:858:TRP:HE1	1.72	0.54
1:A:1041:ALA:HA	1:A:1606:PRO:HG3	1.88	0.54
1:A:1079:LYS:CD	1:A:1098:LEU:HD21	2.34	0.54
1:A:1198:TYR:CE2	1:A:1217:VAL:HG11	2.41	0.54
1:A:1577:GLN:OE1	1:A:1592:MET:HA	2.06	0.54
2:B:222:PRO:HA	2:B:225:THR:OG1	2.07	0.54
2:B:1455:UNK:O	2:B:1457:UNK:N	2.40	0.54
2:B:1877:ARG:HG2	2:B:1929:LYS:HD2	1.89	0.54
2:B:1877:ARG:HG2	2:B:1929:LYS:CD	2.37	0.54
1:D:856:GLU:HB2	1:D:858:TRP:HE1	1.72	0.54
1:D:875:THR:OG1	1:D:879:SER:HB2	2.07	0.54
1:D:884:ILE:CG2	1:D:887:GLY:HA3	2.37	0.54
1:D:910:THR:C	1:D:911:PRO:O	2.43	0.54
1:D:1286:TRP:HD1	1:D:1290:LEU:HD13	1.71	0.54
1:D:1286:TRP:HA	1:D:1289:MET:CG	2.37	0.54
1:D:1290:LEU:HA	1:D:1701:LYS:HD2	1.89	0.54
1:D:1387:ILE:O	1:D:1387:ILE:HD12	2.06	0.54
1:D:1502:ARG:O	1:D:1505:GLN:N	2.40	0.54
1:D:1524:GLY:O	1:D:1527:ALA:HB3	2.06	0.54
1:D:1691:GLY:C	1:D:1697:LEU:HD11	2.28	0.54
2:E:68:VAL:O	2:E:68:VAL:HG12	2.07	0.54
2:E:251:VAL:O	2:E:255:LEU:HB3	2.07	0.54
2:E:304:PHE:CE2	2:E:308:VAL:HG21	2.42	0.54
2:E:466:SER:C	2:E:468:LEU:N	2.60	0.54
2:E:1170:UNK:O	2:E:1171:UNK:C	2.55	0.54
2:E:1664:UNK:HA	3:F:18:UNK:CB	2.38	0.54
2:E:1705:SER:OG	2:E:1708:ASP:HB2	2.06	0.54
2:E:1729:ILE:HG12	2:E:1730:ARG:N	2.22	0.54
1:G:412:UNK:C	1:G:414:UNK:N	2.70	0.54
1:G:557:UNK:C	1:G:559:UNK:N	2.68	0.54
1:G:715:THR:HG21	1:G:1364:GLU:OE2	2.06	0.54
1:G:723:ALA:O	1:G:724:LYS:HB2	2.05	0.54
1:G:1413:LYS:HD2	1:G:1425:ILE:CD1	2.37	0.54
1:G:1607:GLY:O	1:G:1608:ASN:O	2.26	0.54
1:G:1636:VAL:O	1:G:1637:ARG:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1340:UNK:O	2:H:1341:UNK:C	2.56	0.54
2:H:1549:UNK:O	2:H:1550:UNK:C	2.55	0.54
2:H:1558:UNK:O	2:H:1559:UNK:C	2.54	0.54
2:H:1693:ARG:HD3	2:H:1825:GLU:OE2	2.07	0.54
3:I:37:UNK:O	3:I:39:UNK:N	2.40	0.54
1:A:443:UNK:CB	1:A:731:THR:HA	2.37	0.54
1:A:453:UNK:C	1:A:455:UNK:N	2.69	0.54
1:A:771:PHE:CE2	1:A:825:PRO:HB3	2.41	0.54
1:A:787:LYS:O	1:A:790:PHE:HB3	2.07	0.54
1:A:836:ASP:OD1	1:A:839:TYR:N	2.40	0.54
1:A:912:GLU:O	1:A:913:VAL:C	2.46	0.54
1:A:957:VAL:HG12	1:A:961:THR:OG1	2.07	0.54
1:A:993:PRO:HD3	1:A:1681:GLU:OE2	2.08	0.54
1:A:1012:LEU:CD1	1:A:1015:LEU:HD12	2.37	0.54
1:A:1364:GLU:OE1	1:A:1367:ARG:NH1	2.40	0.54
1:A:1433:HIS:CE1	1:A:1518:ARG:HH21	2.24	0.54
1:A:1471:LYS:C	1:A:1474:ALA:H	2.11	0.54
2:B:199:ILE:HG23	2:B:200:ARG:N	2.17	0.54
2:B:535:ILE:HG22	2:B:536:ASN:OD1	2.06	0.54
2:B:1225:UNK:O	2:B:1226:UNK:CB	2.55	0.54
2:B:1698:PHE:C	2:B:1700:ASP:N	2.60	0.54
1:D:428:UNK:O	1:D:430:UNK:N	2.40	0.54
1:D:715:THR:HG21	1:D:1364:GLU:OE2	2.07	0.54
1:D:1158:PRO:HG2	1:D:1159:GLU:N	2.14	0.54
1:D:1174:TYR:O	1:D:1175:ILE:HB	2.07	0.54
1:D:1187:GLY:N	1:D:1188:GLN:NE2	2.54	0.54
1:D:1741:LYS:C	1:D:1743:SER:H	2.11	0.54
2:E:135:ARG:N	2:E:136:PRO:CD	2.70	0.54
2:E:148:ALA:HB1	2:E:154:ALA:HB3	1.89	0.54
2:E:265:SER:O	2:E:267:LEU:N	2.40	0.54
2:E:917:UNK:C	2:E:919:UNK:N	2.68	0.54
2:E:1705:SER:O	2:E:1709:ILE:HG12	2.07	0.54
1:G:755:THR:HG22	1:G:757:LYS:N	2.04	0.54
1:G:903:PHE:O	1:G:906:LEU:HB3	2.06	0.54
1:G:1030:TRP:HB2	1:G:1036:ARG:HB3	1.90	0.54
1:G:1184:LEU:HD22	1:G:1341:PHE:CD2	2.37	0.54
1:G:1642:THR:N	1:G:1652:GLN:OE1	2.41	0.54
1:G:1688:PHE:O	1:G:1689:HIS:C	2.45	0.54
2:H:304:PHE:CE2	2:H:308:VAL:HG21	2.42	0.54
2:H:395:LYS:O	2:H:396:ALA:HB2	2.08	0.54
2:H:408:PRO:HA	2:H:412:ARG:HB2	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:535:ILE:HG22	2:H:536:ASN:OD1	2.07	0.54
2:H:1170:UNK:O	2:H:1171:UNK:C	2.54	0.54
2:H:1927:LEU:HA	2:H:1930:SER:CB	2.37	0.54
1:A:771:PHE:N	1:A:771:PHE:HD1	2.05	0.54
1:A:1110:LEU:CD1	1:A:1188:GLN:N	2.70	0.54
1:A:1286:TRP:HD1	1:A:1290:LEU:HD13	1.71	0.54
1:A:1334:ASP:CG	1:A:1335:PHE:N	2.61	0.54
1:A:1532:THR:C	1:A:1534:ASP:N	2.60	0.54
2:B:1549:UNK:O	2:B:1550:UNK:C	2.54	0.54
2:B:1558:UNK:O	2:B:1559:UNK:C	2.55	0.54
2:B:1672:GLN:HB3	2:B:1781:LEU:CG	2.38	0.54
2:B:1845:ASP:C	2:B:1847:LEU:H	2.10	0.54
1:D:1110:LEU:CD1	1:D:1188:GLN:N	2.69	0.54
1:D:1118:LYS:HE2	1:D:1337:GLU:CA	2.34	0.54
1:D:1208:VAL:CG2	1:D:1209:ASP:N	2.69	0.54
1:D:1397:GLY:H	1:D:1676:LYS:HB3	1.72	0.54
1:D:1431:GLU:OE1	1:D:1564:LEU:HD13	2.06	0.54
1:D:1525:ALA:C	1:D:1527:ALA:H	2.11	0.54
1:D:1555:ALA:HA	1:D:1558:ASN:HB3	1.88	0.54
1:D:1607:GLY:O	1:D:1608:ASN:O	2.24	0.54
1:D:1690:ASN:O	1:D:1693:ILE:HG12	2.08	0.54
2:E:676:UNK:O	2:E:677:UNK:C	2.55	0.54
2:E:1672:GLN:HB2	2:E:1676:MET:CE	2.36	0.54
2:E:1770:LEU:C	2:E:1772:SER:N	2.61	0.54
2:E:1799:PRO:O	2:E:1801:ASP:N	2.41	0.54
1:G:836:ASP:OD1	1:G:839:TYR:N	2.41	0.54
1:G:901:MET:O	1:G:901:MET:HG2	2.06	0.54
1:G:998:TYR:HD1	1:G:999:LYS:HG2	1.72	0.54
1:G:1055:TRP:HH2	1:G:1198:TYR:HD1	1.55	0.54
1:G:1073:THR:HG22	1:G:1074:GLY:N	2.22	0.54
1:G:1174:TYR:O	1:G:1175:ILE:CB	2.54	0.54
1:G:1284:SER:CB	1:G:1298:ILE:HD11	2.38	0.54
1:G:1666:THR:O	1:G:1667:GLU:HG3	2.08	0.54
1:G:1668:ASP:O	1:G:1670:TYR:N	2.33	0.54
2:H:60:LEU:O	2:H:64:PHE:N	2.39	0.54
2:H:184:VAL:C	2:H:186:ASP:N	2.59	0.54
2:H:267:LEU:HG	2:H:268:LYS:H	1.70	0.54
2:H:1685:LYS:HA	2:H:1688:GLN:HB2	1.90	0.54
2:H:1887:GLU:CD	2:H:1888:ILE:H	2.11	0.54
1:A:448:UNK:O	1:A:450:UNK:N	2.40	0.54
1:A:651:UNK:O	1:A:653:UNK:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:741:SER:O	1:A:742:LYS:C	2.45	0.54
1:A:873:ARG:NH1	1:A:883:ILE:N	2.55	0.54
1:A:999:LYS:HD3	1:A:1671:ASN:HD21	1.73	0.54
1:A:1174:TYR:O	1:A:1175:ILE:CB	2.55	0.54
1:A:1332:TYR:HA	1:A:1587:ALA:HB2	1.88	0.54
1:A:1431:GLU:OE1	1:A:1564:LEU:HD13	2.08	0.54
1:A:1536:LEU:CB	1:A:1638:ALA:HB3	2.36	0.54
2:B:98:GLY:O	2:B:100:ASP:N	2.38	0.54
2:B:158:ALA:H	2:B:270:ALA:H	1.55	0.54
2:B:259:THR:CG2	2:B:260:PRO:HD2	2.34	0.54
2:B:408:PRO:HB2	2:B:412:ARG:CD	2.38	0.54
2:B:1469:UNK:N	2:B:1493:UNK:O	2.41	0.54
1:D:927:ASN:ND2	1:D:931:GLN:H	2.04	0.54
1:D:1126:ILE:CG2	1:D:1127:VAL:N	2.70	0.54
1:D:1412:ASP:HB2	1:D:1425:ILE:C	2.27	0.54
1:D:1553:GLU:HA	1:D:1556:THR:HB	1.90	0.54
1:D:1730:SER:O	1:D:1731:LEU:C	2.45	0.54
2:E:122:LEU:HD23	2:E:122:LEU:C	2.28	0.54
2:E:200:ARG:O	2:E:203:LEU:HG	2.07	0.54
2:E:258:PHE:CB	2:E:262:GLU:HB2	2.29	0.54
2:E:267:LEU:HG	2:E:457:ILE:HD12	1.88	0.54
2:E:357:ASN:HA	2:E:360:LEU:HB2	1.89	0.54
2:E:450:PHE:O	2:E:451:ASN:HB2	2.06	0.54
2:E:478:ARG:C	2:E:480:VAL:N	2.61	0.54
2:E:541:TYR:O	2:E:543:PHE:N	2.33	0.54
2:E:762:UNK:O	2:E:763:UNK:CB	2.55	0.54
2:E:1307:UNK:C	2:E:1309:UNK:N	2.70	0.54
2:E:1429:UNK:O	2:E:1430:UNK:C	2.55	0.54
2:E:1732:ASN:O	2:E:1734:SER:N	2.36	0.54
2:E:1773:ALA:C	2:E:1775:GLN:H	2.11	0.54
1:G:696:LEU:HD23	1:G:696:LEU:H	1.73	0.54
1:G:808:LYS:O	1:G:809:GLN:C	2.46	0.54
1:G:1079:LYS:HG2	1:G:1080:THR:N	2.21	0.54
1:G:1079:LYS:CD	1:G:1098:LEU:HD21	2.32	0.54
1:G:1157:ILE:CG2	1:G:1158:PRO:HD2	2.21	0.54
1:G:1433:HIS:CE1	1:G:1518:ARG:HH21	2.25	0.54
1:G:1447:TYR:HE2	1:G:1450:ARG:CG	2.18	0.54
1:G:1659:ASP:C	1:G:1661:LEU:H	2.09	0.54
1:G:1692:MET:CA	1:G:1697:LEU:HD11	2.37	0.54
2:H:203:LEU:HD23	2:H:206:GLU:OE2	2.07	0.54
2:H:334:VAL:O	2:H:420:PHE:CD2	2.58	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:382:PRO:HG2	2:H:385:SER:OG	2.07	0.54
2:H:387:TYR:O	2:H:390:ASN:HB2	2.08	0.54
2:H:450:PHE:O	2:H:451:ASN:HB2	2.08	0.54
2:H:1672:GLN:HE21	2:H:1777:THR:CG2	2.19	0.54
2:H:1828:VAL:HG13	2:H:1829:GLU:N	2.20	0.54
2:H:2038:UNK:HA	2:H:2041:UNK:CB	2.38	0.54
1:A:687:SER:HB2	1:A:899:LYS:CE	2.37	0.54
1:A:742:LYS:HB2	1:A:746:GLU:HG3	1.90	0.54
1:A:774:ILE:CD1	1:A:775:PRO:HD2	2.38	0.54
1:A:791:ALA:O	1:A:795:MET:N	2.32	0.54
1:A:1248:GLY:O	1:A:1300:THR:HG23	2.06	0.54
1:A:1249:SER:OG	1:A:1250:GLY:N	2.40	0.54
1:A:1425:ILE:O	1:A:1425:ILE:HG22	2.08	0.54
1:A:1462:TRP:HA	1:A:1465:ASN:HB3	1.89	0.54
1:A:1691:GLY:C	1:A:1697:LEU:HD11	2.28	0.54
1:A:1722:VAL:CB	1:A:1731:LEU:HG	2.38	0.54
2:B:593:UNK:O	2:B:595:UNK:N	2.40	0.54
2:B:799:UNK:O	2:B:800:UNK:C	2.55	0.54
1:D:741:SER:O	1:D:742:LYS:C	2.45	0.54
1:D:871:TRP:HZ2	1:D:881:ASN:HB2	1.72	0.54
1:D:912:GLU:O	1:D:916:LEU:N	2.31	0.54
1:D:1073:THR:HG22	1:D:1074:GLY:N	2.20	0.54
1:D:1705:PRO:HG2	1:D:1706:TYR:H	1.71	0.54
2:E:63:LYS:O	2:E:66:GLY:N	2.40	0.54
2:E:1019:UNK:C	2:E:1021:UNK:N	2.69	0.54
2:E:1040:UNK:O	2:E:1041:UNK:CB	2.55	0.54
2:E:1698:PHE:C	2:E:1700:ASP:N	2.61	0.54
2:E:1703:GLY:O	2:E:1721:PHE:HE2	1.88	0.54
2:E:1770:LEU:O	2:E:1772:SER:N	2.37	0.54
1:G:432:UNK:O	1:G:433:UNK:CB	2.56	0.54
1:G:771:PHE:CE1	1:G:825:PRO:HD3	2.43	0.54
1:G:1019:ILE:HG13	1:G:1316:VAL:CG2	2.37	0.54
1:G:1084:VAL:C	1:G:1086:ASP:N	2.56	0.54
1:G:1105:LEU:HB3	1:G:1111:PHE:HE2	1.72	0.54
1:G:1158:PRO:HG2	1:G:1159:GLU:N	2.17	0.54
1:G:1464:GLU:HA	1:G:1467:LEU:CD1	2.26	0.54
1:G:1518:ARG:O	1:G:1519:ILE:HB	2.08	0.54
1:G:1604:ILE:HG23	1:G:1630:THR:CA	2.38	0.54
2:H:214:ASN:O	2:H:216:LEU:N	2.40	0.54
2:H:1539:UNK:O	2:H:1540:UNK:C	2.55	0.54
2:H:1602:UNK:C	2:H:1604:UNK:N	2.67	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1732:ASN:O	2:H:1734:SER:N	2.37	0.54
2:H:1785:GLU:OE1	2:H:1813:ALA:HB1	2.07	0.54
1:A:635:UNK:O	1:A:636:UNK:CB	2.55	0.54
1:A:710:PHE:HD1	1:A:736:PRO:HB3	1.73	0.54
1:A:1056:ILE:C	1:A:1058:GLY:N	2.61	0.54
1:A:1119:LYS:O	1:A:1119:LYS:HD2	2.08	0.54
1:A:1122:ILE:HA	1:A:1182:ASP:O	2.08	0.54
1:A:1158:PRO:HG2	1:A:1159:GLU:N	2.15	0.54
1:A:1174:TYR:O	1:A:1175:ILE:HB	2.07	0.54
1:A:1243:VAL:HG11	1:A:1325:ARG:HD3	1.90	0.54
1:A:1403:ILE:HG23	1:A:1656:VAL:O	2.07	0.54
1:A:1453:VAL:O	1:A:1454:THR:C	2.45	0.54
1:A:1642:THR:HA	1:A:1652:GLN:OE1	2.08	0.54
2:B:40:ILE:O	2:B:40:ILE:HG22	2.08	0.54
2:B:77:VAL:HG12	2:B:78:GLY:N	2.22	0.54
2:B:1170:UNK:O	2:B:1171:UNK:C	2.55	0.54
2:B:1307:UNK:O	2:B:1309:UNK:N	2.41	0.54
2:B:1732:ASN:O	2:B:1734:SER:N	2.37	0.54
1:D:679:LEU:HD21	1:D:802:MET:CE	2.37	0.54
1:D:873:ARG:HG3	1:D:882:ASN:OD1	2.08	0.54
1:D:905:LEU:HD22	1:D:905:LEU:N	2.18	0.54
1:D:1459:ILE:HD12	1:D:1460:LYS:N	2.22	0.54
1:D:1542:HIS:HA	1:D:1578:LYS:HE2	1.90	0.54
2:E:135:ARG:N	2:E:136:PRO:HD3	2.21	0.54
2:E:273:HIS:CB	2:E:512:LEU:HD11	2.37	0.54
2:E:1307:UNK:O	2:E:1309:UNK:N	2.41	0.54
2:E:1869:GLU:HA	2:E:1872:GLN:CB	2.37	0.54
1:G:552:UNK:C	1:G:554:UNK:H	2.17	0.54
1:G:651:UNK:O	1:G:653:UNK:N	2.40	0.54
1:G:717:TYR:C	1:G:719:GLN:N	2.60	0.54
1:G:741:SER:O	1:G:742:LYS:C	2.44	0.54
1:G:910:THR:C	1:G:911:PRO:O	2.46	0.54
1:G:1036:ARG:CD	1:G:1037:TRP:N	2.71	0.54
1:G:1074:GLY:O	1:G:1075:TRP:HB3	2.08	0.54
1:G:1099:GLU:O	1:G:1101:SER:N	2.40	0.54
1:G:1118:LYS:HG3	1:G:1120:GLU:HG2	1.90	0.54
1:G:1532:THR:C	1:G:1534:ASP:N	2.60	0.54
1:G:1659:ASP:C	1:G:1661:LEU:N	2.60	0.54
2:H:248:HIS:CE1	2:H:530:ALA:HB2	2.43	0.54
2:H:319:LEU:HD21	2:H:335:PRO:HG3	1.89	0.54
2:H:1413:UNK:C	2:H:1415:UNK:N	2.69	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1877:ARG:HG2	2:H:1929:LYS:HD2	1.89	0.54
2:H:1884:TRP:N	2:H:1892:ASN:HB2	2.23	0.54
2:H:1897:GLN:C	2:H:1899:VAL:H	2.09	0.54
1:A:471:UNK:HA	1:A:474:UNK:CB	2.37	0.54
1:A:910:THR:CG2	1:A:913:VAL:HG23	2.38	0.54
1:A:1032:SER:O	1:A:1033:ALA:C	2.44	0.54
1:A:1131:LEU:CB	1:A:1133:PRO:HD3	2.32	0.54
1:A:1156:GLU:HG2	1:A:1169:LYS:HA	1.89	0.54
1:A:1193:TRP:O	1:A:1194:ASN:CB	2.56	0.54
1:A:1219:VAL:HG23	1:A:1328:ILE:HD11	1.90	0.54
1:A:1286:TRP:HA	1:A:1289:MET:CG	2.37	0.54
1:A:1455:ARG:HG3	1:A:1459:ILE:HG21	1.89	0.54
1:A:1546:THR:O	1:A:1548:ALA:N	2.41	0.54
2:B:91:PHE:C	2:B:93:ASN:H	2.11	0.54
2:B:197:GLU:O	2:B:199:ILE:N	2.41	0.54
2:B:248:HIS:CE1	2:B:530:ALA:HB2	2.42	0.54
2:B:367:GLU:CG	2:B:368:ILE:N	2.70	0.54
1:D:525:UNK:O	1:D:526:UNK:C	2.55	0.54
1:D:803:MET:CE	1:D:822:VAL:HG11	2.38	0.54
1:D:957:VAL:HG12	1:D:961:THR:OG1	2.07	0.54
1:D:970:GLY:O	1:D:971:ASN:HB2	2.06	0.54
1:D:1068:LYS:O	1:D:1069:GLY:O	2.24	0.54
1:D:1292:ILE:O	1:D:1292:ILE:CG1	2.53	0.54
1:D:1418:VAL:HA	1:D:1419:PRO:C	2.27	0.54
1:D:1430:ARG:CG	1:D:1431:GLU:H	2.20	0.54
1:D:1534:ASP:C	1:D:1566:ARG:HH21	2.11	0.54
1:D:1599:ILE:O	1:D:1600:LEU:O	2.26	0.54
1:D:1736:LYS:O	1:D:1737:ASN:HB2	2.08	0.54
2:E:174:ARG:C	2:E:176:LEU:H	2.11	0.54
2:E:1208:UNK:O	2:E:1209:UNK:CB	2.55	0.54
2:E:1737:ILE:HD12	2:E:1755:ILE:HD12	1.88	0.54
2:E:1776:PHE:O	2:E:1777:THR:C	2.45	0.54
1:G:456:UNK:O	1:G:460:UNK:N	2.40	0.54
1:G:941:ALA:O	1:G:942:LYS:C	2.45	0.54
1:G:1070:ARG:O	1:G:1071:PRO:C	2.46	0.54
1:G:1151:LYS:CE	1:G:1175:ILE:HD13	2.33	0.54
1:G:1205:ILE:HG13	1:G:1205:ILE:O	2.06	0.54
1:G:1243:VAL:HG11	1:G:1325:ARG:HD3	1.90	0.54
1:G:1307:THR:OG1	1:G:1308:SER:N	2.40	0.54
1:G:1334:ASP:CG	1:G:1335:PHE:N	2.61	0.54
1:G:1455:ARG:HG3	1:G:1455:ARG:NH1	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1580:LEU:C	1:G:1581:THR:OG1	2.46	0.54
2:H:25:ALA:CB	2:H:65:LEU:HD21	2.38	0.54
2:H:52:ASP:CG	2:H:53:GLU:H	2.11	0.54
2:H:87:CYS:HA	2:H:90:GLU:CB	2.31	0.54
2:H:135:ARG:N	2:H:136:PRO:CD	2.70	0.54
2:H:969:UNK:O	2:H:971:UNK:N	2.41	0.54
2:H:1729:ILE:HG12	2:H:1730:ARG:N	2.23	0.54
2:H:1912:ASN:O	2:H:1913:VAL:HG22	2.08	0.54
1:A:941:ALA:O	1:A:942:LYS:C	2.45	0.54
1:A:1261:PHE:N	1:A:1261:PHE:HD2	2.06	0.54
1:A:1276:GLN:O	1:A:1279:PHE:CD2	2.61	0.54
1:A:1534:ASP:C	1:A:1566:ARG:HH21	2.10	0.54
1:A:1549:ASN:OD1	1:A:1550:ASP:N	2.41	0.54
2:B:68:VAL:O	2:B:68:VAL:HG12	2.07	0.54
2:B:145:LEU:HD21	2:B:544:LYS:HG2	1.90	0.54
2:B:270:ALA:O	2:B:459:VAL:HG13	2.08	0.54
2:B:1008:UNK:O	2:B:1011:UNK:N	2.40	0.54
2:B:1291:UNK:CB	2:B:1369:UNK:N	2.70	0.54
2:B:1740:THR:HB	2:B:1751:ILE:HG13	1.89	0.54
2:B:1776:PHE:O	2:B:1777:THR:C	2.46	0.54
2:B:1804:PHE:CE2	2:B:1818:LEU:HB2	2.42	0.54
2:B:1869:GLU:HA	2:B:1872:GLN:CB	2.37	0.54
1:D:854:HIS:O	1:D:855:SER:OG	2.24	0.54
1:D:984:PRO:O	1:D:985:ARG:O	2.26	0.54
1:D:1254:VAL:CG1	1:D:1255:SER:H	2.19	0.54
2:E:60:LEU:H	2:E:60:LEU:HD12	1.72	0.54
2:E:1264:UNK:O	2:E:1266:UNK:N	2.40	0.54
2:E:1275:UNK:O	2:E:1276:UNK:C	2.56	0.54
2:E:1725:LYS:HG2	2:E:1760:THR:OG1	2.07	0.54
2:E:1828:VAL:HG13	2:E:1829:GLU:N	2.22	0.54
2:E:1911:THR:C	2:E:1913:VAL:H	2.11	0.54
2:E:2020:UNK:C	2:E:2022:UNK:N	2.65	0.54
1:G:696:LEU:H	1:G:696:LEU:CD2	2.21	0.54
1:G:1031:GLY:O	1:G:1032:SER:C	2.46	0.54
1:G:1036:ARG:NH2	1:G:1040:GLU:OE1	2.40	0.54
1:G:1045:PHE:HB3	1:G:1050:CYS:CA	2.37	0.54
1:G:1538:VAL:HG11	1:G:1599:ILE:HD12	1.90	0.54
1:G:1730:SER:O	1:G:1731:LEU:C	2.45	0.54
2:H:235:PRO:O	2:H:236:ILE:CB	2.55	0.54
2:H:251:VAL:O	2:H:255:LEU:HB3	2.08	0.54
2:H:260:PRO:HG3	2:H:292:PHE:CB	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:887:UNK:O	2:H:888:UNK:CB	2.55	0.54
2:H:1911:THR:C	2:H:1913:VAL:H	2.11	0.54
3:I:11:UNK:C	3:I:13:UNK:N	2.70	0.54
1:A:572:UNK:C	1:A:574:UNK:N	2.69	0.54
1:A:1162:GLU:N	1:A:1162:GLU:OE2	2.41	0.54
1:A:1536:LEU:HB3	1:A:1638:ALA:CB	2.36	0.54
1:A:1558:ASN:ND2	1:A:1620:GLN:HB3	2.23	0.54
2:B:387:TYR:O	2:B:390:ASN:HB2	2.06	0.54
2:B:1034:UNK:C	2:B:1036:UNK:H	2.21	0.54
2:B:1729:ILE:HG12	2:B:1730:ARG:N	2.22	0.54
2:B:1986:UNK:C	2:B:1988:UNK:H	2.21	0.54
1:D:487:UNK:O	1:D:489:UNK:N	2.41	0.54
1:D:547:UNK:O	1:D:549:UNK:N	2.40	0.54
1:D:651:UNK:O	1:D:653:UNK:N	2.41	0.54
1:D:1008:GLU:C	1:D:1010:GLU:N	2.57	0.54
1:D:1036:ARG:HD3	1:D:1037:TRP:N	2.22	0.54
1:D:1067:LEU:CG	1:D:1068:LYS:N	2.67	0.54
1:D:1219:VAL:HA	1:D:1384:ILE:HG21	1.89	0.54
1:D:1425:ILE:O	1:D:1425:ILE:HG22	2.08	0.54
1:D:1826:UNK:O	1:D:1827:UNK:CB	2.55	0.54
2:E:690:UNK:O	2:E:691:UNK:CB	2.55	0.54
1:G:487:UNK:O	1:G:489:UNK:N	2.40	0.54
1:G:693:LEU:O	1:G:694:GLN:C	2.44	0.54
1:G:890:LYS:O	1:G:892:GLY:N	2.32	0.54
1:G:944:ARG:O	1:G:948:VAL:N	2.39	0.54
1:G:961:THR:C	1:G:963:LEU:H	2.11	0.54
1:G:1341:PHE:O	1:G:1342:GLU:CB	2.54	0.54
1:G:1362:PRO:HA	1:G:1365:MET:HE1	1.89	0.54
2:H:13:HIS:C	2:H:15:SER:H	2.11	0.54
2:H:77:VAL:HG12	2:H:78:GLY:N	2.22	0.54
2:H:1483:UNK:O	2:H:1484:UNK:CB	2.55	0.54
1:A:394:UNK:O	1:A:395:UNK:C	2.55	0.54
1:A:446:UNK:O	1:A:447:UNK:CB	2.55	0.54
1:A:880:ALA:O	1:A:882:ASN:N	2.41	0.54
1:A:1036:ARG:CD	1:A:1037:TRP:N	2.71	0.54
1:A:1079:LYS:CG	1:A:1080:THR:N	2.71	0.54
1:A:1339:GLY:C	1:A:1340:SER:O	2.39	0.54
1:A:1398:VAL:HG12	1:A:1673:TYR:CE1	2.38	0.54
1:A:1707:THR:O	1:A:1707:THR:OG1	2.24	0.54
1:A:1741:LYS:C	1:A:1743:SER:H	2.12	0.54
1:A:1826:UNK:O	1:A:1827:UNK:CB	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:60:LEU:O	2:B:64:PHE:N	2.39	0.54
2:B:213:LEU:HD11	2:B:215:ILE:HD11	1.89	0.54
2:B:304:PHE:CE2	2:B:308:VAL:HG21	2.43	0.54
2:B:334:VAL:O	2:B:420:PHE:CD2	2.56	0.54
2:B:350:GLN:O	2:B:351:ASP:C	2.46	0.54
2:B:440:ASN:O	2:B:443:LEU:HB2	2.08	0.54
2:B:1685:LYS:HA	2:B:1688:GLN:HB2	1.88	0.54
2:B:1706:ILE:HD13	2:B:1783:LEU:HD12	1.90	0.54
2:B:1857:ILE:HG12	2:B:1949:UNK:CB	2.38	0.54
3:C:45:UNK:O	3:C:46:UNK:CB	2.56	0.54
1:D:489:UNK:O	1:D:490:UNK:C	2.56	0.54
1:D:644:UNK:C	1:D:646:UNK:N	2.67	0.54
1:D:1142:GLU:N	1:D:1144:PHE:CE1	2.76	0.54
1:D:1208:VAL:HB	1:D:1212:THR:HG21	1.89	0.54
1:D:1225:ALA:C	1:D:1227:GLY:N	2.55	0.54
1:D:1334:ASP:CG	1:D:1335:PHE:N	2.62	0.54
1:D:1614:VAL:O	1:D:1614:VAL:HG12	2.07	0.54
2:E:25:ALA:CB	2:E:65:LEU:HD21	2.38	0.54
2:E:145:LEU:HD21	2:E:544:LYS:HG2	1.89	0.54
2:E:273:HIS:HB3	2:E:512:LEU:HD11	1.89	0.54
2:E:351:ASP:O	2:E:354:ASN:HB2	2.08	0.54
2:E:1225:UNK:O	2:E:1226:UNK:CB	2.55	0.54
2:E:1754:GLU:C	2:E:1756:ASN:N	2.62	0.54
2:E:1877:ARG:HG2	2:E:1929:LYS:HD2	1.89	0.54
1:G:415:UNK:C	1:G:417:UNK:N	2.68	0.54
1:G:460:UNK:C	1:G:462:UNK:N	2.70	0.54
1:G:747:ALA:O	1:G:750:GLU:HB3	2.07	0.54
1:G:912:GLU:O	1:G:916:LEU:N	2.31	0.54
1:G:1142:GLU:N	1:G:1144:PHE:CE1	2.76	0.54
1:G:1319:ILE:HD12	1:G:1325:ARG:HA	1.89	0.54
1:G:1370:THR:O	1:G:1371:THR:CB	2.56	0.54
2:H:68:VAL:O	2:H:68:VAL:HG12	2.08	0.54
2:H:249:TYR:CE2	2:H:283:ILE:HG23	2.43	0.54
2:H:404:GLN:HG3	2:H:408:PRO:CG	2.33	0.54
2:H:1703:GLY:O	2:H:1721:PHE:HE2	1.87	0.54
2:H:1785:GLU:O	2:H:1788:ALA:HB3	2.08	0.54
2:H:1871:LEU:C	2:H:1873:TYR:H	2.10	0.54
1:A:487:UNK:O	1:A:489:UNK:N	2.41	0.53
1:A:904:ASN:O	1:A:905:LEU:C	2.46	0.53
1:A:1203:ASP:H	1:A:1205:ILE:HG13	1.68	0.53
1:A:1596:ALA:O	1:A:1597:LEU:C	2.46	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1604:ILE:HG23	1:A:1630:THR:CB	2.38	0.53
2:B:267:LEU:HG	2:B:457:ILE:HD12	1.89	0.53
2:B:690:UNK:O	2:B:691:UNK:CB	2.56	0.53
2:B:917:UNK:C	2:B:919:UNK:N	2.67	0.53
2:B:1830:VAL:O	2:B:1833:TYR:N	2.42	0.53
2:B:1917:ILE:HG22	2:B:1918:LYS:N	2.22	0.53
3:C:61:UNK:O	3:C:62:UNK:CB	2.56	0.53
1:D:689:GLY:HA2	1:D:692:VAL:CG2	2.38	0.53
1:D:774:ILE:HD13	1:D:775:PRO:HD2	1.89	0.53
1:D:830:HIS:CD2	1:D:830:HIS:N	2.72	0.53
1:D:910:THR:CG2	1:D:913:VAL:HG23	2.38	0.53
1:D:998:TYR:O	1:D:999:LYS:O	2.25	0.53
1:D:1060:ILE:HD13	1:D:1077:ASP:OD1	2.08	0.53
1:D:1067:LEU:HD11	1:D:1073:THR:OG1	2.08	0.53
1:D:1208:VAL:HA	1:D:1277:GLU:CD	2.28	0.53
1:D:1419:PRO:O	1:D:1420:ALA:HB2	2.08	0.53
1:D:1711:GLU:CG	1:D:1715:TYR:HE1	2.09	0.53
2:E:79:GLN:HB3	2:E:80:PHE:HD1	1.73	0.53
2:E:203:LEU:HD23	2:E:206:GLU:OE2	2.09	0.53
2:E:213:LEU:HD13	2:E:236:ILE:CG1	2.37	0.53
2:E:408:PRO:HB2	2:E:412:ARG:CD	2.37	0.53
2:E:525:VAL:O	2:E:525:VAL:HG12	2.08	0.53
2:E:1483:UNK:O	2:E:1484:UNK:CB	2.55	0.53
2:E:1519:UNK:C	2:E:1521:UNK:N	2.71	0.53
2:E:1753:LYS:O	2:E:1755:ILE:HG12	2.08	0.53
2:E:1760:THR:O	2:E:1761:SER:OG	2.22	0.53
2:E:1762:TYR:CD1	2:E:1763:THR:N	2.74	0.53
1:G:704:VAL:HG22	1:G:733:ILE:HB	1.89	0.53
1:G:719:GLN:CG	1:G:720:SER:N	2.69	0.53
1:G:774:ILE:CD1	1:G:775:PRO:HD2	2.39	0.53
1:G:807:LYS:HG2	1:G:861:GLN:HG3	1.90	0.53
1:G:1075:TRP:CE3	1:G:1076:VAL:N	2.77	0.53
1:G:1736:LYS:O	1:G:1737:ASN:HB2	2.08	0.53
2:H:50:ALA:O	2:H:51:ASP:HB2	2.08	0.53
2:H:474:SER:O	2:H:475:ILE:HB	2.07	0.53
2:H:1672:GLN:HB3	2:H:1781:LEU:CG	2.38	0.53
2:H:1739:GLU:O	2:H:1741:ILE:HG13	2.08	0.53
1:A:552:UNK:C	1:A:554:UNK:H	2.17	0.53
1:A:561:UNK:O	1:A:564:UNK:N	2.42	0.53
1:A:717:TYR:C	1:A:719:GLN:N	2.60	0.53
1:A:963:LEU:O	1:A:967:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1057:MET:CE	1:A:1106:ILE:HD11	2.38	0.53
1:A:1239:HIS:O	1:A:1241:SER:N	2.39	0.53
2:B:41:LEU:O	2:B:45:THR:HA	2.07	0.53
2:B:122:LEU:HD23	2:B:122:LEU:C	2.27	0.53
2:B:1275:UNK:O	2:B:1276:UNK:C	2.57	0.53
2:B:1698:PHE:C	2:B:1700:ASP:H	2.11	0.53
2:B:1885:LEU:C	3:C:2:UNK:CB	2.76	0.53
1:D:880:ALA:O	1:D:882:ASN:N	2.41	0.53
1:D:1036:ARG:CD	1:D:1037:TRP:N	2.71	0.53
1:D:1075:TRP:CE3	1:D:1076:VAL:N	2.76	0.53
1:D:1246:CYS:N	1:D:1328:ILE:HG23	2.23	0.53
1:D:1616:LYS:O	1:D:1618:LEU:N	2.42	0.53
1:D:1639:VAL:HG23	1:D:1655:VAL:H	1.74	0.53
1:D:1642:THR:HA	1:D:1652:GLN:OE1	2.08	0.53
1:D:1666:THR:O	1:D:1667:GLU:HG3	2.09	0.53
2:E:50:ALA:O	2:E:51:ASP:HB2	2.07	0.53
2:E:61:VAL:HG12	2:E:65:LEU:HD12	1.89	0.53
2:E:1844:ARG:HG2	2:E:1850:SER:HA	1.90	0.53
2:E:1897:GLN:C	2:E:1899:VAL:H	2.10	0.53
2:E:1917:ILE:HG22	2:E:1918:LYS:N	2.20	0.53
2:E:2036:UNK:C	2:E:2038:UNK:N	2.70	0.53
1:G:771:PHE:N	1:G:771:PHE:HD1	2.05	0.53
1:G:880:ALA:O	1:G:882:ASN:N	2.41	0.53
1:G:910:THR:CG2	1:G:913:VAL:HG23	2.39	0.53
1:G:927:ASN:O	1:G:929:GLY:N	2.35	0.53
1:G:1377:MET:O	1:G:1378:GLU:O	2.25	0.53
1:G:1599:ILE:HG13	1:G:1600:LEU:N	2.23	0.53
2:H:61:VAL:HG12	2:H:65:LEU:HD12	1.90	0.53
2:H:1714:PRO:O	2:H:1715:VAL:O	2.25	0.53
2:H:1737:ILE:HD12	2:H:1755:ILE:HD12	1.90	0.53
1:A:961:THR:C	1:A:963:LEU:H	2.12	0.53
1:A:1021:VAL:HG11	1:A:1597:LEU:HD11	1.91	0.53
1:A:1100:HIS:O	1:A:1103:ILE:N	2.41	0.53
1:A:1153:ASP:CG	1:A:1157:ILE:HG23	2.29	0.53
1:A:1195:ALA:O	1:A:1196:LYS:NZ	2.42	0.53
1:A:1208:VAL:CG2	1:A:1209:ASP:N	2.70	0.53
1:A:1302:VAL:O	1:A:1307:THR:CB	2.53	0.53
1:A:1326:ILE:N	1:A:1326:ILE:CD1	2.70	0.53
1:A:1332:TYR:CA	1:A:1587:ALA:HB2	2.38	0.53
1:A:1430:ARG:CG	1:A:1431:GLU:H	2.20	0.53
1:A:1607:GLY:O	1:A:1608:ASN:O	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:187:LEU:HD22	2:B:296:VAL:HG11	1.90	0.53
2:B:478:ARG:C	2:B:480:VAL:N	2.62	0.53
2:B:678:UNK:O	2:B:679:UNK:C	2.55	0.53
2:B:1720:HIS:HB2	2:B:1762:TYR:O	2.08	0.53
2:B:1809:LEU:O	2:B:1811:GLU:N	2.41	0.53
2:B:2036:UNK:C	2:B:2038:UNK:N	2.69	0.53
1:D:415:UNK:C	1:D:417:UNK:N	2.70	0.53
1:D:873:ARG:HH12	1:D:883:ILE:C	2.11	0.53
1:D:903:PHE:O	1:D:906:LEU:HB3	2.08	0.53
1:D:961:THR:C	1:D:963:LEU:H	2.12	0.53
1:D:1070:ARG:O	1:D:1071:PRO:C	2.47	0.53
1:D:1074:GLY:O	1:D:1075:TRP:HB3	2.08	0.53
1:D:1418:VAL:CA	1:D:1419:PRO:O	2.55	0.53
1:D:1532:THR:O	1:D:1533:ILE:C	2.47	0.53
1:D:1541:PHE:HE2	1:D:1554:SER:OG	1.90	0.53
2:E:208:VAL:O	2:E:208:VAL:HG12	2.08	0.53
2:E:209:PHE:CD2	2:E:213:LEU:HD22	2.43	0.53
2:E:1859:PRO:HB3	2:E:1863:ALA:HB2	1.90	0.53
1:G:572:UNK:C	1:G:574:UNK:N	2.70	0.53
1:G:1138:LYS:O	1:G:1139:GLU:HB3	2.07	0.53
1:G:1144:PHE:O	1:G:1145:LYS:C	2.45	0.53
1:G:1316:VAL:HG13	1:G:1317:GLU:OE2	2.09	0.53
1:G:1339:GLY:O	1:G:1340:SER:O	2.26	0.53
1:G:1381:GLY:O	1:G:1382:ALA:HB2	2.09	0.53
1:G:1549:ASN:OD1	1:G:1550:ASP:N	2.41	0.53
1:G:1704:ALA:CB	1:G:1705:PRO:HD2	2.27	0.53
2:H:209:PHE:CD2	2:H:213:LEU:HD22	2.44	0.53
2:H:213:LEU:HD13	2:H:236:ILE:CG1	2.36	0.53
2:H:270:ALA:O	2:H:459:VAL:HG13	2.09	0.53
2:H:275:GLN:HG3	2:H:303:LEU:HD22	1.90	0.53
2:H:431:LEU:N	2:H:431:LEU:HD23	2.23	0.53
2:H:678:UNK:O	2:H:679:UNK:C	2.56	0.53
2:H:1531:UNK:O	2:H:1532:UNK:CB	2.56	0.53
2:H:1753:LYS:O	2:H:1755:ILE:HG12	2.08	0.53
2:H:1859:PRO:HB3	2:H:1863:ALA:HB2	1.90	0.53
2:H:1869:GLU:HA	2:H:1872:GLN:CB	2.38	0.53
2:H:2033:UNK:O	2:H:2036:UNK:N	2.40	0.53
1:A:871:TRP:HZ2	1:A:881:ASN:HB2	1.73	0.53
1:A:1070:ARG:O	1:A:1071:PRO:C	2.47	0.53
1:A:1109:GLU:O	1:A:1110:LEU:CB	2.56	0.53
1:A:1133:PRO:HD2	1:A:1173:LEU:HD13	1.87	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1158:PRO:CG	1:A:1159:GLU:H	2.09	0.53
1:A:1208:VAL:HA	1:A:1277:GLU:CD	2.29	0.53
1:A:1373:ARG:CG	1:A:1547:LYS:HD3	2.09	0.53
1:A:1532:THR:OG1	1:A:1535:ASP:HB3	2.08	0.53
2:B:52:ASP:CG	2:B:53:GLU:H	2.12	0.53
2:B:1496:UNK:C	2:B:1498:UNK:N	2.72	0.53
2:B:1673:GLU:N	2:B:1676:MET:HE1	2.23	0.53
2:B:2033:UNK:O	2:B:2036:UNK:N	2.41	0.53
2:B:2038:UNK:HA	2:B:2041:UNK:CB	2.38	0.53
1:D:281:UNK:C	1:D:283:UNK:N	2.71	0.53
1:D:1079:LYS:CG	1:D:1080:THR:N	2.71	0.53
1:D:1099:GLU:CG	1:D:1100:HIS:N	2.66	0.53
1:D:1127:VAL:HG21	1:D:1180:ARG:HG3	1.90	0.53
1:D:1558:ASN:C	1:D:1560:MET:N	2.62	0.53
1:D:1610:ASN:O	1:D:1611:ALA:O	2.27	0.53
1:D:1656:VAL:HG22	1:D:1657:HIS:N	2.22	0.53
2:E:440:ASN:O	2:E:443:LEU:HB2	2.07	0.53
2:E:1496:UNK:C	2:E:1498:UNK:N	2.70	0.53
2:E:1720:HIS:HB2	2:E:1762:TYR:O	2.07	0.53
2:E:1789:PHE:CE1	2:E:1818:LEU:HD23	2.43	0.53
2:E:1907:LEU:HD23	2:E:1907:LEU:N	2.21	0.53
1:G:635:UNK:O	1:G:636:UNK:CB	2.56	0.53
1:G:1067:LEU:CG	1:G:1073:THR:HG23	2.27	0.53
1:G:1657:HIS:NE2	1:G:1659:ASP:OD2	2.36	0.53
1:G:1681:GLU:O	1:G:1682:LYS:HB2	2.09	0.53
1:G:1735:SER:C	1:G:1737:ASN:N	2.61	0.53
2:H:390:ASN:HA	2:H:393:LEU:CD2	2.39	0.53
2:H:408:PRO:HB2	2:H:412:ARG:CD	2.37	0.53
2:H:922:UNK:C	2:H:924:UNK:N	2.69	0.53
2:H:1034:UNK:C	2:H:1036:UNK:H	2.21	0.53
2:H:1698:PHE:CD1	2:H:1706:ILE:HD11	2.43	0.53
1:A:689:GLY:HA2	1:A:692:VAL:CG2	2.39	0.53
1:A:695:GLY:O	1:A:697:LEU:N	2.42	0.53
1:A:875:THR:OG1	1:A:879:SER:HB2	2.09	0.53
1:A:1052:GLU:O	1:A:1056:ILE:HG13	2.09	0.53
1:A:1142:GLU:N	1:A:1144:PHE:CE1	2.77	0.53
1:A:1665:ILE:HG22	1:A:1666:THR:N	2.23	0.53
2:B:402:LEU:HD22	2:B:405:SER:OG	2.08	0.53
2:B:755:UNK:O	2:B:756:UNK:CB	2.56	0.53
2:B:1715:VAL:CG2	2:B:1716:ASN:H	2.05	0.53
2:B:2047:UNK:O	2:B:2049:UNK:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:673:PHE:O	1:D:674:LYS:C	2.45	0.53
1:D:717:TYR:C	1:D:719:GLN:N	2.59	0.53
1:D:796:LEU:HG	1:D:797:THR:N	2.23	0.53
1:D:1109:GLU:C	1:D:1111:PHE:N	2.59	0.53
1:D:1248:GLY:O	1:D:1300:THR:HG23	2.09	0.53
1:D:1349:THR:HG22	1:D:1350:SER:N	2.23	0.53
1:D:1536:LEU:CA	1:D:1638:ALA:HB3	2.39	0.53
1:D:1544:THR:OG1	1:D:1546:THR:CG2	2.56	0.53
1:D:1546:THR:O	1:D:1548:ALA:N	2.41	0.53
1:D:1547:LYS:HE3	1:D:1615:ASP:HB2	1.89	0.53
1:D:1691:GLY:HA2	1:D:1696:LYS:HB2	1.90	0.53
2:E:1531:UNK:O	2:E:1532:UNK:CB	2.56	0.53
1:G:655:UNK:O	1:G:657:UNK:N	2.41	0.53
1:G:877:LEU:O	1:G:878:MET:CB	2.48	0.53
1:G:912:GLU:O	1:G:913:VAL:C	2.47	0.53
1:G:993:PRO:HD3	1:G:1681:GLU:OE2	2.07	0.53
1:G:1156:GLU:HG2	1:G:1169:LYS:HA	1.88	0.53
1:G:1161:GLY:O	1:G:1164:SER:HB3	2.09	0.53
1:G:1403:ILE:CG2	1:G:1656:VAL:O	2.57	0.53
1:G:1413:LYS:HG2	1:G:1414:ILE:N	2.23	0.53
1:G:1453:VAL:O	1:G:1454:THR:C	2.47	0.53
1:G:1655:VAL:HG13	1:G:1656:VAL:N	2.23	0.53
1:G:1700:SER:C	1:G:1701:LYS:HD3	2.29	0.53
2:H:197:GLU:O	2:H:199:ILE:N	2.41	0.53
2:H:202:THR:O	2:H:203:LEU:C	2.46	0.53
2:H:370:LEU:HB3	2:H:372:ASN:OD1	2.08	0.53
2:H:390:ASN:HA	2:H:393:LEU:CB	2.37	0.53
2:H:755:UNK:O	2:H:756:UNK:CB	2.56	0.53
2:H:1562:UNK:O	2:H:1564:UNK:N	2.42	0.53
2:H:1614:UNK:CB	2:H:1650:UNK:HA	2.39	0.53
2:H:1823:SER:O	2:H:1824:ILE:C	2.47	0.53
1:A:490:UNK:O	1:A:493:UNK:N	2.42	0.53
1:A:917:CYS:SG	1:A:922:VAL:CG2	2.97	0.53
1:A:1045:PHE:HB3	1:A:1050:CYS:CA	2.38	0.53
1:A:1062:TYR:CE2	1:A:1693:ILE:HD12	2.31	0.53
1:A:1260:MET:SD	1:A:1275:LEU:HD23	2.49	0.53
1:A:1413:LYS:HG2	1:A:1414:ILE:N	2.23	0.53
1:A:1561:MET:HA	1:A:1561:MET:CE	2.38	0.53
2:B:19:VAL:O	2:B:19:VAL:HG12	2.08	0.53
2:B:265:SER:O	2:B:267:LEU:N	2.40	0.53
2:B:676:UNK:O	2:B:677:UNK:C	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1678:MET:HA	2:B:1678:MET:CE	2.36	0.53
1:D:680:ILE:HD11	1:D:703:VAL:HG13	1.89	0.53
1:D:1022:THR:HG21	1:D:1388:MET:CE	2.32	0.53
1:D:1032:SER:O	1:D:1033:ALA:C	2.46	0.53
1:D:1161:GLY:H	1:D:1166:LYS:HA	1.73	0.53
1:D:1245:ASN:ND2	1:D:1288:ASN:ND2	2.57	0.53
1:D:1413:LYS:HG2	1:D:1414:ILE:N	2.23	0.53
1:D:1424:GLY:C	1:D:1426:LEU:H	2.10	0.53
1:D:1558:ASN:ND2	1:D:1620:GLN:HB3	2.24	0.53
1:D:1688:PHE:O	1:D:1689:HIS:C	2.46	0.53
1:D:1717:ASP:C	1:D:1719:LEU:H	2.11	0.53
2:E:14:GLY:HA3	2:E:18:HIS:CB	2.39	0.53
2:E:241:ILE:HG21	2:E:275:GLN:HG2	1.90	0.53
2:E:306:ILE:O	2:E:310:CYS:SG	2.67	0.53
2:E:526:ARG:N	2:E:526:ARG:CD	2.70	0.53
2:E:1908:ASP:O	2:E:1911:THR:HG22	2.07	0.53
1:G:388:UNK:O	1:G:389:UNK:C	2.57	0.53
1:G:443:UNK:CB	1:G:731:THR:HA	2.39	0.53
1:G:928:GLY:C	1:G:930:LEU:N	2.60	0.53
1:G:1168:LEU:HD13	1:G:1169:LYS:CB	2.37	0.53
1:G:1219:VAL:HG23	1:G:1328:ILE:HD11	1.89	0.53
1:G:1239:HIS:C	1:G:1241:SER:N	2.60	0.53
1:G:1562:LYS:NZ	1:G:1621:PHE:CZ	2.75	0.53
1:G:1692:MET:N	1:G:1697:LEU:HD11	2.24	0.53
2:H:174:ARG:C	2:H:176:LEU:H	2.12	0.53
2:H:239:PRO:HG2	2:H:240:LEU:H	1.74	0.53
2:H:1874:VAL:HG12	2:H:1878:VAL:CG2	2.39	0.53
1:A:796:LEU:HG	1:A:797:THR:N	2.22	0.53
1:A:1014:ASP:O	1:A:1015:LEU:O	2.26	0.53
1:A:1117:GLU:HG3	1:A:1118:LYS:N	2.24	0.53
1:A:1161:GLY:H	1:A:1166:LYS:HA	1.74	0.53
1:A:1172:THR:O	1:A:1172:THR:HG22	2.09	0.53
1:A:1187:GLY:N	1:A:1188:GLN:NE2	2.56	0.53
1:A:1189:ILE:CG2	1:A:1190:PRO:CD	2.72	0.53
1:A:1455:ARG:NH2	1:A:1458:GLN:HB2	2.24	0.53
2:B:480:VAL:HG13	2:B:484:ILE:HD11	1.90	0.53
2:B:1908:ASP:O	2:B:1911:THR:HG22	2.08	0.53
1:D:1045:PHE:HB3	1:D:1050:CYS:CA	2.38	0.53
1:D:1142:GLU:O	1:D:1143:GLN:C	2.46	0.53
1:D:1153:ASP:C	1:D:1155:PHE:H	2.12	0.53
1:D:1371:THR:O	1:D:1373:ARG:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1687:PHE:O	1:D:1690:ASN:HB3	2.09	0.53
1:G:453:UNK:C	1:G:455:UNK:N	2.68	0.53
1:G:917:CYS:HA	1:G:920:SER:O	2.09	0.53
1:G:1100:HIS:O	1:G:1103:ILE:N	2.41	0.53
1:G:1151:LYS:CG	1:G:1175:ILE:HD13	2.38	0.53
1:G:1376:PHE:O	1:G:1377:MET:HG2	2.08	0.53
1:G:1387:ILE:O	1:G:1387:ILE:HD12	2.08	0.53
2:H:214:ASN:C	2:H:216:LEU:H	2.12	0.53
2:H:1738:PHE:HB3	2:H:1739:GLU:OE2	2.09	0.53
1:A:705:VAL:HG23	1:A:732:LEU:HD11	1.91	0.53
1:A:1082:GLU:CA	1:A:1085:ASP:OD1	2.57	0.53
1:A:1197:THR:CA	1:A:1200:ILE:HG22	2.37	0.53
1:A:1639:VAL:HG23	1:A:1655:VAL:H	1.73	0.53
1:A:1666:THR:O	1:A:1667:GLU:HG3	2.09	0.53
2:B:25:ALA:CB	2:B:65:LEU:HD21	2.38	0.53
2:B:489:LYS:O	2:B:491:GLU:N	2.41	0.53
2:B:895:UNK:O	2:B:896:UNK:C	2.57	0.53
1:D:993:PRO:HD3	1:D:1681:GLU:OE2	2.09	0.53
1:D:1207:GLN:HE21	1:D:1207:GLN:C	2.12	0.53
1:D:1307:THR:OG1	1:D:1308:SER:N	2.41	0.53
1:D:1447:TYR:HE2	1:D:1450:ARG:CG	2.19	0.53
1:D:1453:VAL:O	1:D:1454:THR:C	2.46	0.53
1:D:1561:MET:HA	1:D:1561:MET:CE	2.39	0.53
1:D:1637:ARG:O	1:D:1657:HIS:N	2.37	0.53
2:E:41:LEU:CD2	2:E:46:GLU:HA	2.32	0.53
2:E:70:SER:HB2	2:E:72:VAL:O	2.09	0.53
2:E:270:ALA:O	2:E:459:VAL:HG13	2.09	0.53
2:E:275:GLN:HG3	2:E:303:LEU:HD22	1.91	0.53
2:E:431:LEU:N	2:E:431:LEU:HD23	2.23	0.53
2:E:612:UNK:O	2:E:613:UNK:CB	2.56	0.53
2:E:969:UNK:O	2:E:971:UNK:N	2.42	0.53
1:G:490:UNK:O	1:G:493:UNK:N	2.42	0.53
1:G:673:PHE:O	1:G:674:LYS:C	2.47	0.53
1:G:792:HIS:HD2	1:G:838:MET:SD	2.32	0.53
1:G:866:GLY:O	1:G:867:ALA:CB	2.56	0.53
1:G:869:ILE:CG2	1:G:901:MET:SD	2.96	0.53
1:G:911:PRO:O	1:G:912:GLU:CB	2.56	0.53
1:G:1014:ASP:O	1:G:1015:LEU:O	2.26	0.53
1:G:1146:HIS:O	1:G:1148:HIS:N	2.41	0.53
1:G:1208:VAL:HA	1:G:1277:GLU:CD	2.29	0.53
1:G:1208:VAL:CG2	1:G:1209:ASP:N	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1210:PRO:HB3	1:G:1255:SER:CB	2.30	0.53
1:G:1241:SER:HB3	1:G:1295:SER:H	1.73	0.53
1:G:1326:ILE:N	1:G:1326:ILE:CD1	2.72	0.53
1:G:1418:VAL:CA	1:G:1419:PRO:O	2.57	0.53
1:G:1590:ALA:O	1:G:1593:MET:HB3	2.08	0.53
2:H:14:GLY:HA3	2:H:18:HIS:CB	2.38	0.53
2:H:19:VAL:O	2:H:19:VAL:HG12	2.09	0.53
2:H:99:ASN:O	2:H:100:ASP:HB3	2.09	0.53
2:H:147:ARG:O	2:H:148:ALA:C	2.47	0.53
2:H:799:UNK:O	2:H:800:UNK:C	2.56	0.53
2:H:1018:UNK:O	2:H:1019:UNK:CB	2.55	0.53
2:H:1429:UNK:O	2:H:1430:UNK:C	2.56	0.53
2:H:1758:HIS:CD2	2:H:1759:SER:H	2.25	0.53
1:A:666:UNK:O	1:A:667:UNK:C	2.57	0.53
1:A:673:PHE:O	1:A:674:LYS:C	2.48	0.53
1:A:680:ILE:HD11	1:A:703:VAL:CG1	2.39	0.53
1:A:704:VAL:HG22	1:A:733:ILE:HB	1.91	0.53
1:A:873:ARG:HG3	1:A:882:ASN:OD1	2.07	0.53
1:A:901:MET:O	1:A:904:ASN:N	2.33	0.53
1:A:998:TYR:HD1	1:A:999:LYS:HG2	1.73	0.53
1:A:1157:ILE:HG22	1:A:1158:PRO:CD	2.23	0.53
1:A:1280:ILE:H	1:A:1280:ILE:CD1	2.16	0.53
1:A:1637:ARG:O	1:A:1657:HIS:N	2.38	0.53
2:B:275:GLN:HG3	2:B:303:LEU:HD22	1.91	0.53
2:B:395:LYS:O	2:B:396:ALA:HB2	2.07	0.53
2:B:1519:UNK:C	2:B:1521:UNK:N	2.71	0.53
2:B:1709:ILE:HG22	2:B:1771:LEU:CD1	2.36	0.53
2:B:1753:LYS:C	2:B:1755:ILE:H	2.12	0.53
2:B:1823:SER:O	2:B:1824:ILE:C	2.47	0.53
2:B:1859:PRO:HB3	2:B:1863:ALA:HB2	1.91	0.53
2:B:1931:LEU:HA	2:B:1934:GLU:HB3	1.90	0.53
1:D:610:UNK:CB	1:D:873:ARG:HE	2.21	0.53
1:D:1012:LEU:CD1	1:D:1015:LEU:HD12	2.38	0.53
1:D:1398:VAL:HG12	1:D:1673:TYR:CE1	2.38	0.53
1:D:1433:HIS:CE1	1:D:1518:ARG:HH21	2.27	0.53
1:D:1681:GLU:O	1:D:1682:LYS:HB2	2.09	0.53
2:E:13:HIS:C	2:E:15:SER:H	2.10	0.53
2:E:52:ASP:CG	2:E:53:GLU:H	2.12	0.53
2:E:490:TRP:O	2:E:493:THR:N	2.41	0.53
2:E:887:UNK:O	2:E:888:UNK:CB	2.57	0.53
2:E:1181:UNK:O	2:E:1182:UNK:CB	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1334:UNK:O	2:E:1335:UNK:C	2.55	0.53
2:E:2040:UNK:O	2:E:2042:UNK:N	2.42	0.53
1:G:563:UNK:C	1:G:565:UNK:N	2.67	0.53
1:G:584:UNK:O	1:G:585:UNK:O	2.26	0.53
1:G:810:LYS:O	1:G:812:ALA:N	2.41	0.53
1:G:1056:ILE:C	1:G:1058:GLY:N	2.62	0.53
1:G:1104:ARG:O	1:G:1105:LEU:CG	2.56	0.53
1:G:1286:TRP:HA	1:G:1289:MET:CG	2.38	0.53
1:G:1408:ALA:HA	1:G:1652:GLN:O	2.09	0.53
2:H:402:LEU:HD22	2:H:405:SER:OG	2.09	0.53
2:H:525:VAL:O	2:H:525:VAL:HG12	2.09	0.53
2:H:895:UNK:O	2:H:896:UNK:C	2.57	0.53
2:H:1149:UNK:C	2:H:1151:UNK:N	2.72	0.53
2:H:1181:UNK:O	2:H:1182:UNK:CB	2.57	0.53
2:H:1496:UNK:C	2:H:1498:UNK:N	2.70	0.53
2:H:1519:UNK:C	2:H:1521:UNK:N	2.68	0.53
1:A:803:MET:HB3	1:A:862:LEU:HD11	1.90	0.53
1:A:1126:ILE:CG2	1:A:1177:LYS:HB3	2.39	0.53
1:A:1131:LEU:O	1:A:1173:LEU:HD13	2.09	0.53
1:A:1139:GLU:CG	1:A:1140:THR:N	2.71	0.53
1:A:1151:LYS:CG	1:A:1175:ILE:HD13	2.39	0.53
1:A:1654:ILE:HG12	1:A:1655:VAL:N	2.23	0.53
2:B:135:ARG:N	2:B:136:PRO:HD3	2.22	0.53
2:B:203:LEU:HD23	2:B:206:GLU:OE2	2.08	0.53
2:B:218:TRP:CZ2	2:B:226:PRO:HG2	2.44	0.53
2:B:375:LYS:CG	2:B:376:ASN:H	2.22	0.53
2:B:762:UNK:O	2:B:763:UNK:CB	2.57	0.53
2:B:1040:UNK:O	2:B:1041:UNK:CB	2.56	0.53
2:B:1299:UNK:O	2:B:1301:UNK:N	2.41	0.53
2:B:1413:UNK:C	2:B:1415:UNK:N	2.71	0.53
2:B:1675:GLY:O	2:B:1678:MET:HG2	2.09	0.53
2:B:1878:VAL:CB	2:B:1898:TYR:HE1	2.22	0.53
1:D:444:UNK:H	1:D:722:TYR:HE2	1.54	0.53
1:D:787:LYS:O	1:D:790:PHE:HB3	2.09	0.53
1:D:911:PRO:O	1:D:912:GLU:HB2	2.09	0.53
1:D:1161:GLY:O	1:D:1164:SER:HB3	2.09	0.53
1:D:1178:ALA:O	1:D:1179:LEU:CD2	2.56	0.53
1:D:1187:GLY:C	1:D:1188:GLN:CD	2.68	0.53
1:D:1197:THR:CA	1:D:1200:ILE:HG22	2.38	0.53
1:D:1243:VAL:HG11	1:D:1325:ARG:HD3	1.89	0.53
1:D:1339:GLY:O	1:D:1340:SER:O	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1376:PHE:O	1:D:1377:MET:HG2	2.09	0.53
1:D:1471:LYS:C	1:D:1474:ALA:H	2.12	0.53
1:D:1546:THR:CG2	1:D:1549:ASN:HB3	2.38	0.53
1:D:1599:ILE:HG13	1:D:1600:LEU:N	2.24	0.53
1:D:1638:ALA:O	1:D:1639:VAL:HG13	2.09	0.53
2:E:49:ALA:H	2:E:118:LYS:NZ	2.07	0.53
2:E:1018:UNK:O	2:E:1019:UNK:CB	2.56	0.53
2:E:1291:UNK:CB	2:E:1369:UNK:N	2.72	0.53
2:E:1823:SER:O	2:E:1824:ILE:C	2.47	0.53
1:G:537:UNK:CB	1:G:585:UNK:CB	2.86	0.53
1:G:791:ALA:O	1:G:795:MET:N	2.32	0.53
1:G:873:ARG:HH12	1:G:883:ILE:C	2.13	0.53
1:G:890:LYS:C	1:G:892:GLY:H	2.13	0.53
1:G:1022:THR:O	1:G:1401:TYR:CE2	2.62	0.53
1:G:1045:PHE:HB3	1:G:1050:CYS:N	2.23	0.53
1:G:1094:GLU:HG3	1:G:1095:THR:N	2.24	0.53
1:G:1276:GLN:O	1:G:1279:PHE:CD2	2.61	0.53
1:G:1371:THR:C	1:G:1373:ARG:H	2.10	0.53
1:G:1424:GLY:C	1:G:1426:LEU:H	2.10	0.53
1:G:1471:LYS:C	1:G:1474:ALA:H	2.13	0.53
1:G:1665:ILE:HG22	1:G:1666:THR:N	2.24	0.53
2:H:70:SER:HB2	2:H:72:VAL:O	2.08	0.53
2:H:79:GLN:HB3	2:H:80:PHE:HD1	1.73	0.53
2:H:158:ALA:H	2:H:270:ALA:H	1.56	0.53
2:H:490:TRP:O	2:H:493:THR:N	2.41	0.53
2:H:799:UNK:C	2:H:801:UNK:N	2.70	0.53
2:H:1341:UNK:O	2:H:1342:UNK:CB	2.57	0.53
2:H:1441:UNK:C	2:H:1443:UNK:N	2.71	0.53
2:H:1770:LEU:O	2:H:1772:SER:N	2.35	0.53
2:H:1877:ARG:HB3	2:H:1929:LYS:HZ2	1.73	0.53
1:A:910:THR:HG23	1:A:913:VAL:HG23	1.91	0.52
1:A:917:CYS:HA	1:A:920:SER:O	2.09	0.52
1:A:1119:LYS:HE3	1:A:1121:MET:CG	2.39	0.52
1:A:1292:ILE:O	1:A:1292:ILE:CG1	2.53	0.52
1:A:1655:VAL:HG13	1:A:1656:VAL:N	2.24	0.52
1:A:1736:LYS:O	1:A:1737:ASN:HB2	2.09	0.52
2:B:73:GLU:N	2:B:74:PRO:CD	2.72	0.52
2:B:87:CYS:C	2:B:90:GLU:HB3	2.29	0.52
2:B:213:LEU:HD13	2:B:236:ILE:CG1	2.38	0.52
2:B:1650:UNK:C	2:B:1652:UNK:N	2.70	0.52
2:B:1785:GLU:O	2:B:1788:ALA:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1884:TRP:N	2:B:1892:ASN:HB2	2.24	0.52
1:D:412:UNK:C	1:D:414:UNK:N	2.72	0.52
1:D:742:LYS:O	1:D:744:ASP:N	2.42	0.52
1:D:874:GLY:HA3	1:D:899:LYS:HD2	1.91	0.52
1:D:998:TYR:HD1	1:D:999:LYS:HG2	1.74	0.52
1:D:1082:GLU:CA	1:D:1085:ASP:OD1	2.57	0.52
1:D:1117:GLU:HG3	1:D:1118:LYS:N	2.23	0.52
1:D:1174:TYR:O	1:D:1175:ILE:CB	2.56	0.52
1:D:1659:ASP:C	1:D:1661:LEU:H	2.12	0.52
2:E:60:LEU:O	2:E:64:PHE:N	2.39	0.52
2:E:184:VAL:C	2:E:186:ASP:N	2.58	0.52
2:E:390:ASN:HA	2:E:393:LEU:CD2	2.39	0.52
2:E:615:UNK:O	2:E:617:UNK:N	2.42	0.52
2:E:647:UNK:HA	2:E:650:UNK:CB	2.39	0.52
2:E:1038:UNK:O	2:E:1040:UNK:N	2.42	0.52
2:E:1207:UNK:O	2:E:1208:UNK:CB	2.57	0.52
2:E:1773:ALA:C	2:E:1775:GLN:N	2.63	0.52
2:E:1868:GLN:O	2:E:1872:GLN:HB2	2.09	0.52
1:G:749:ILE:HD11	1:G:802:MET:HE2	1.91	0.52
1:G:769:ILE:HB	1:G:823:ILE:CD1	2.38	0.52
1:G:808:LYS:HA	1:G:808:LYS:CE	2.28	0.52
1:G:1169:LYS:CG	1:G:1170:GLY:H	2.18	0.52
1:G:1254:VAL:CG1	1:G:1255:SER:H	2.18	0.52
1:G:1359:GLY:O	1:G:1360:ARG:O	2.27	0.52
1:G:1390:ALA:O	1:G:1393:ALA:HB3	2.09	0.52
1:G:1519:ILE:HD11	1:G:1521:PRO:HD2	1.90	0.52
1:G:1546:THR:O	1:G:1548:ALA:N	2.42	0.52
1:G:1579:PHE:CD2	1:G:1609:ARG:O	2.62	0.52
2:H:258:PHE:CB	2:H:262:GLU:HB2	2.28	0.52
2:H:437:ASP:O	2:H:440:ASN:HB2	2.09	0.52
2:H:1008:UNK:O	2:H:1011:UNK:N	2.42	0.52
2:H:1642:UNK:O	2:H:1650:UNK:O	2.28	0.52
2:H:1678:MET:HE2	2:H:1678:MET:CA	2.39	0.52
1:A:610:UNK:CB	1:A:873:ARG:HE	2.23	0.52
1:A:929:GLY:O	1:A:930:LEU:C	2.48	0.52
1:A:1288:ASN:O	1:A:1290:LEU:N	2.42	0.52
1:A:1371:THR:C	1:A:1373:ARG:H	2.11	0.52
1:A:1406:MET:HE3	1:A:1430:ARG:HD2	1.91	0.52
1:A:1638:ALA:O	1:A:1639:VAL:HG13	2.08	0.52
2:B:208:VAL:O	2:B:208:VAL:HG12	2.08	0.52
2:B:450:PHE:HD1	2:B:451:ASN:H	1.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1162:UNK:C	2:B:1164:UNK:H	2.20	0.52
2:B:1169:UNK:C	2:B:1171:UNK:N	2.70	0.52
2:B:1542:UNK:O	2:B:1543:UNK:CB	2.57	0.52
2:B:1770:LEU:HD23	2:B:1770:LEU:O	2.09	0.52
2:B:1871:LEU:C	2:B:1873:TYR:H	2.11	0.52
1:D:679:LEU:HA	1:D:704:VAL:O	2.09	0.52
1:D:696:LEU:HD23	1:D:696:LEU:H	1.74	0.52
1:D:696:LEU:H	1:D:696:LEU:CD2	2.22	0.52
1:D:940:THR:O	1:D:943:LEU:HB2	2.09	0.52
1:D:1056:ILE:C	1:D:1058:GLY:N	2.62	0.52
1:D:1122:ILE:HA	1:D:1182:ASP:O	2.10	0.52
1:D:1157:ILE:CG2	1:D:1158:PRO:HD2	2.23	0.52
1:D:1168:LEU:HD13	1:D:1169:LYS:CB	2.37	0.52
1:D:1210:PRO:HB3	1:D:1255:SER:CB	2.30	0.52
1:D:1224:ILE:HD13	1:D:1687:PHE:CD2	2.45	0.52
1:D:1284:SER:CB	1:D:1298:ILE:HD11	2.39	0.52
1:D:1519:ILE:HG12	1:D:1521:PRO:HD2	1.91	0.52
1:D:1532:THR:OG1	1:D:1535:ASP:CB	2.57	0.52
2:E:292:PHE:O	2:E:295:SER:HB3	2.08	0.52
2:E:522:GLY:HA2	2:E:555:UNK:O	2.08	0.52
2:E:719:UNK:O	2:E:720:UNK:CB	2.58	0.52
2:E:1333:UNK:O	2:E:1337:UNK:CB	2.57	0.52
2:E:1485:UNK:HA	2:E:1512:UNK:HA	1.90	0.52
2:E:1672:GLN:HB3	2:E:1781:LEU:CG	2.39	0.52
2:E:2033:UNK:O	2:E:2036:UNK:N	2.42	0.52
3:F:49:UNK:O	3:F:50:UNK:CB	2.57	0.52
1:G:832:THR:O	1:G:833:PHE:O	2.27	0.52
1:G:852:ARG:NH1	1:G:856:GLU:OE1	2.42	0.52
1:G:873:ARG:HG3	1:G:882:ASN:OD1	2.09	0.52
1:G:1079:LYS:CG	1:G:1080:THR:N	2.71	0.52
1:G:1522:LEU:HB3	1:G:1526:LEU:HD23	1.91	0.52
2:H:494:THR:HB	2:H:520:LYS:HZ2	1.73	0.52
2:H:762:UNK:O	2:H:763:UNK:CB	2.57	0.52
2:H:1720:HIS:HB2	2:H:1762:TYR:O	2.09	0.52
3:I:24:UNK:C	3:I:26:UNK:N	2.72	0.52
1:A:786:SER:O	1:A:787:LYS:C	2.47	0.52
1:A:1030:TRP:CE2	1:A:1580:LEU:HD11	2.44	0.52
1:A:1104:ARG:O	1:A:1105:LEU:CG	2.56	0.52
1:A:1397:GLY:H	1:A:1676:LYS:CB	2.22	0.52
1:A:1538:VAL:HG11	1:A:1599:ILE:HD12	1.91	0.52
1:A:1579:PHE:CD2	1:A:1609:ARG:O	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1636:VAL:HG13	1:A:1657:HIS:CD2	2.44	0.52
2:B:612:UNK:O	2:B:613:UNK:CB	2.57	0.52
2:B:1828:VAL:HG13	2:B:1829:GLU:N	2.24	0.52
2:B:1874:VAL:HG12	2:B:1878:VAL:CG2	2.40	0.52
2:B:1897:GLN:C	2:B:1899:VAL:H	2.11	0.52
1:D:561:UNK:O	1:D:564:UNK:N	2.43	0.52
1:D:808:LYS:O	1:D:809:GLN:C	2.47	0.52
1:D:1459:ILE:HG13	1:D:1460:LYS:N	2.25	0.52
2:E:147:ARG:O	2:E:148:ALA:C	2.48	0.52
2:E:202:THR:O	2:E:203:LEU:C	2.47	0.52
2:E:386:LEU:O	2:E:389:LEU:HB3	2.08	0.52
2:E:1047:UNK:C	2:E:1049:UNK:N	2.71	0.52
1:G:381:UNK:O	1:G:382:UNK:C	2.57	0.52
1:G:1117:GLU:HG3	1:G:1118:LYS:N	2.23	0.52
1:G:1142:GLU:O	1:G:1143:GLN:C	2.48	0.52
1:G:1342:GLU:O	1:G:1346:MET:HB2	2.09	0.52
1:G:1478:PRO:O	1:G:1479:SER:CB	2.58	0.52
1:G:1616:LYS:O	1:G:1618:LEU:N	2.41	0.52
2:H:41:LEU:O	2:H:45:THR:HA	2.10	0.52
2:H:199:ILE:HG23	2:H:200:ARG:N	2.17	0.52
2:H:1917:ILE:HG22	2:H:1918:LYS:N	2.22	0.52
2:H:2020:UNK:O	2:H:2021:UNK:C	2.56	0.52
3:I:45:UNK:O	3:I:46:UNK:CB	2.56	0.52
1:A:520:UNK:C	1:A:522:UNK:H2	2.21	0.52
1:A:910:THR:C	1:A:911:PRO:O	2.45	0.52
1:A:929:GLY:O	1:A:931:GLN:N	2.42	0.52
1:A:1128:GLU:CB	1:A:1177:LYS:HG2	2.40	0.52
1:A:1146:HIS:O	1:A:1148:HIS:N	2.43	0.52
1:A:1207:GLN:HE21	1:A:1207:GLN:C	2.12	0.52
1:A:1455:ARG:HG3	1:A:1455:ARG:NH1	2.24	0.52
1:A:1691:GLY:HA2	1:A:1696:LYS:HB2	1.90	0.52
2:B:14:GLY:HA3	2:B:18:HIS:HB2	1.91	0.52
2:B:217:GLU:O	2:B:219:LEU:N	2.42	0.52
2:B:1827:LEU:O	2:B:1830:VAL:HG12	2.09	0.52
2:B:1924:ILE:C	2:B:1926:GLU:N	2.63	0.52
1:D:557:UNK:C	1:D:559:UNK:N	2.69	0.52
1:D:836:ASP:OD1	1:D:839:TYR:N	2.41	0.52
1:D:1119:LYS:HG2	1:D:1122:ILE:HG12	1.92	0.52
1:D:1151:LYS:O	1:D:1152:VAL:C	2.48	0.52
1:D:1425:ILE:O	1:D:1426:LEU:CB	2.57	0.52
1:D:1528:THR:O	1:D:1530:GLY:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1599:ILE:HD11	1:D:1639:VAL:CG1	2.37	0.52
2:E:55:THR:O	2:E:55:THR:HG22	2.09	0.52
2:E:404:GLN:HA	2:E:408:PRO:HB3	1.91	0.52
2:E:1169:UNK:C	2:E:1171:UNK:N	2.70	0.52
2:E:1551:UNK:O	2:E:1552:UNK:C	2.57	0.52
2:E:1675:GLY:O	2:E:1678:MET:HG2	2.09	0.52
1:G:703:VAL:HG13	1:G:704:VAL:N	2.24	0.52
1:G:1240:VAL:HG13	1:G:1242:GLU:HB2	1.92	0.52
1:G:1491:ARG:C	1:G:1493:ILE:N	2.63	0.52
2:H:241:ILE:HG21	2:H:275:GLN:HG2	1.92	0.52
2:H:647:UNK:HA	2:H:650:UNK:CB	2.40	0.52
2:H:1784:MET:HE1	3:I:21:UNK:HA	1.88	0.52
1:A:415:UNK:C	1:A:417:UNK:N	2.69	0.52
1:A:719:GLN:CG	1:A:720:SER:N	2.72	0.52
1:A:873:ARG:HH12	1:A:883:ILE:C	2.13	0.52
1:A:1142:GLU:O	1:A:1143:GLN:C	2.46	0.52
1:A:1168:LEU:HD22	1:A:1169:LYS:N	2.15	0.52
1:A:1254:VAL:CG1	1:A:1255:SER:H	2.19	0.52
1:A:1541:PHE:HE2	1:A:1554:SER:OG	1.92	0.52
1:A:1659:ASP:C	1:A:1661:LEU:N	2.60	0.52
2:B:49:ALA:CA	2:B:118:LYS:HZ2	2.23	0.52
2:B:53:GLU:HB3	2:B:56:THR:OG1	2.09	0.52
2:B:57:PRO:C	2:B:59:GLU:N	2.63	0.52
2:B:404:GLN:HA	2:B:408:PRO:HB3	1.90	0.52
2:B:1737:ILE:HG23	2:B:1755:ILE:HG21	1.92	0.52
2:B:1773:ALA:C	2:B:1775:GLN:H	2.13	0.52
1:D:1009:LEU:H	1:D:1009:LEU:CD1	2.23	0.52
1:D:1530:GLY:O	1:D:1531:LEU:O	2.26	0.52
2:E:53:GLU:HB3	2:E:56:THR:OG1	2.09	0.52
2:E:218:TRP:CZ2	2:E:226:PRO:HG2	2.44	0.52
2:E:393:LEU:HD21	2:E:418:ASN:HB3	1.92	0.52
2:E:924:UNK:O	2:E:925:UNK:C	2.56	0.52
2:E:1673:GLU:N	2:E:1676:MET:HE1	2.23	0.52
1:G:386:UNK:C	1:G:388:UNK:N	2.71	0.52
1:G:826:MET:HA	1:G:826:MET:HE3	1.90	0.52
1:G:1089:VAL:C	1:G:1091:ALA:N	2.62	0.52
1:G:1153:ASP:C	1:G:1155:PHE:H	2.13	0.52
1:G:1313:ASP:OD2	1:G:1407:ALA:O	2.26	0.52
2:H:375:LYS:O	2:H:377:LEU:HD12	2.10	0.52
2:H:1333:UNK:O	2:H:1337:UNK:CB	2.57	0.52
2:H:1706:ILE:HD13	2:H:1783:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1868:GLN:O	2:H:1872:GLN:HB2	2.09	0.52
2:H:1888:ILE:HA	2:H:1891:TYR:CZ	2.45	0.52
1:A:529:UNK:HA	1:A:532:UNK:CB	2.40	0.52
1:A:808:LYS:O	1:A:809:GLN:C	2.48	0.52
1:A:826:MET:HA	1:A:826:MET:HE3	1.91	0.52
1:A:874:GLY:HA3	1:A:899:LYS:HD2	1.92	0.52
1:A:1075:TRP:CE3	1:A:1076:VAL:N	2.77	0.52
1:A:1241:SER:HB3	1:A:1295:SER:H	1.74	0.52
1:A:1555:ALA:HA	1:A:1558:ASN:HB3	1.91	0.52
1:A:1717:ASP:C	1:A:1719:LEU:H	2.12	0.52
2:B:184:VAL:HG22	2:B:184:VAL:O	2.10	0.52
2:B:390:ASN:HA	2:B:393:LEU:CD2	2.38	0.52
2:B:423:VAL:HG12	2:B:425:SER:O	2.09	0.52
2:B:1333:UNK:O	2:B:1337:UNK:CB	2.58	0.52
1:D:388:UNK:O	1:D:389:UNK:C	2.57	0.52
1:D:679:LEU:O	1:D:679:LEU:CD1	2.58	0.52
1:D:917:CYS:SG	1:D:922:VAL:HB	2.50	0.52
1:D:1203:ASP:H	1:D:1205:ILE:HG13	1.67	0.52
1:D:1288:ASN:O	1:D:1290:LEU:N	2.42	0.52
2:E:587:UNK:O	2:E:784:UNK:CB	2.58	0.52
2:E:1149:UNK:C	2:E:1151:UNK:N	2.73	0.52
2:E:1378:UNK:O	2:E:1379:UNK:CB	2.58	0.52
2:E:1709:ILE:HG22	2:E:1771:LEU:CD1	2.38	0.52
1:G:458:UNK:HA	1:G:1631:LEU:HD21	1.92	0.52
1:G:1099:GLU:CG	1:G:1100:HIS:N	2.66	0.52
1:G:1426:LEU:CD1	1:G:1427:THR:HG23	2.39	0.52
1:G:1459:ILE:CG1	1:G:1460:LYS:N	2.73	0.52
1:G:1459:ILE:HG13	1:G:1460:LYS:N	2.24	0.52
1:G:1707:THR:O	1:G:1707:THR:OG1	2.25	0.52
1:G:1741:LYS:HA	1:G:1741:LYS:CE	2.39	0.52
2:H:173:LEU:O	2:H:176:LEU:HB3	2.09	0.52
2:H:339:LEU:HB2	2:H:420:PHE:CE1	2.45	0.52
2:H:349:VAL:HG21	2:H:377:LEU:CD1	2.35	0.52
2:H:612:UNK:O	2:H:613:UNK:CB	2.58	0.52
2:H:843:UNK:O	2:H:845:UNK:N	2.43	0.52
2:H:1809:LEU:O	2:H:1811:GLU:N	2.43	0.52
2:H:1830:VAL:O	2:H:1833:TYR:N	2.42	0.52
2:H:1878:VAL:CB	2:H:1898:TYR:HE1	2.23	0.52
1:A:677:TYR:HA	1:A:702:LYS:O	2.10	0.52
1:A:696:LEU:H	1:A:696:LEU:CD2	2.23	0.52
1:A:940:THR:O	1:A:943:LEU:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1067:LEU:HD11	1:A:1073:THR:OG1	2.09	0.52
1:A:1370:THR:O	1:A:1371:THR:CB	2.58	0.52
1:A:1381:GLY:O	1:A:1382:ALA:HB2	2.09	0.52
1:A:1455:ARG:C	1:A:1457:ALA:H	2.13	0.52
1:A:1657:HIS:NE2	1:A:1659:ASP:OD2	2.40	0.52
2:B:147:ARG:O	2:B:148:ALA:C	2.47	0.52
2:B:260:PRO:HG3	2:B:292:PHE:CB	2.35	0.52
2:B:390:ASN:C	2:B:393:LEU:HB3	2.30	0.52
2:B:809:UNK:O	2:B:811:UNK:N	2.43	0.52
2:B:1208:UNK:O	2:B:1209:UNK:CB	2.57	0.52
2:B:1458:UNK:C	2:B:1460:UNK:N	2.69	0.52
2:B:1737:ILE:HD12	2:B:1755:ILE:HD12	1.91	0.52
1:D:386:UNK:C	1:D:388:UNK:N	2.72	0.52
1:D:443:UNK:CB	1:D:731:THR:HA	2.40	0.52
1:D:490:UNK:O	1:D:493:UNK:N	2.43	0.52
1:D:537:UNK:CB	1:D:585:UNK:CB	2.88	0.52
1:D:1084:VAL:C	1:D:1086:ASP:N	2.56	0.52
1:D:1122:ILE:O	1:D:1122:ILE:HG13	2.09	0.52
1:D:1253:GLY:O	1:D:1254:VAL:C	2.48	0.52
1:D:1326:ILE:N	1:D:1326:ILE:CD1	2.72	0.52
1:D:1455:ARG:C	1:D:1457:ALA:H	2.13	0.52
1:D:1659:ASP:C	1:D:1661:LEU:N	2.61	0.52
2:E:678:UNK:O	2:E:679:UNK:C	2.57	0.52
2:E:841:UNK:C	2:E:843:UNK:N	2.70	0.52
2:E:1341:UNK:O	2:E:1342:UNK:CB	2.57	0.52
2:E:1441:UNK:C	2:E:1443:UNK:N	2.71	0.52
2:E:1738:PHE:HB3	2:E:1739:GLU:OE2	2.09	0.52
2:E:1785:GLU:O	2:E:1788:ALA:HB3	2.08	0.52
2:E:1917:ILE:CG2	2:E:1918:LYS:H	2.15	0.52
1:G:917:CYS:SG	1:G:922:VAL:CG2	2.97	0.52
1:G:940:THR:O	1:G:943:LEU:HB2	2.10	0.52
1:G:1119:LYS:O	1:G:1119:LYS:HD2	2.08	0.52
1:G:1349:THR:HG22	1:G:1350:SER:N	2.23	0.52
1:G:1532:THR:OG1	1:G:1535:ASP:CB	2.58	0.52
2:H:53:GLU:HB3	2:H:56:THR:OG1	2.10	0.52
2:H:841:UNK:C	2:H:843:UNK:N	2.70	0.52
2:H:1208:UNK:O	2:H:1209:UNK:CB	2.57	0.52
2:H:1246:UNK:O	2:H:1247:UNK:C	2.57	0.52
2:H:1264:UNK:C	2:H:1266:UNK:N	2.69	0.52
2:H:1753:LYS:C	2:H:1755:ILE:H	2.12	0.52
2:H:1917:ILE:CG2	2:H:1918:LYS:H	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1931:LEU:HA	2:H:1934:GLU:HB3	1.90	0.52
1:A:1035:THR:O	1:A:1038:GLU:HB2	2.10	0.52
1:A:1426:LEU:HD12	1:A:1427:THR:CG2	2.40	0.52
1:A:1448:ARG:O	1:A:1451:GLN:HB3	2.10	0.52
1:A:1711:GLU:CG	1:A:1715:TYR:HE1	2.09	0.52
2:B:41:LEU:HD13	2:B:46:GLU:HA	1.91	0.52
2:B:79:GLN:HB3	2:B:80:PHE:HD1	1.74	0.52
2:B:184:VAL:C	2:B:186:ASP:N	2.61	0.52
2:B:1614:UNK:CB	2:B:1650:UNK:HA	2.40	0.52
2:B:1642:UNK:O	2:B:1650:UNK:O	2.28	0.52
1:D:552:UNK:C	1:D:554:UNK:H	2.18	0.52
1:D:747:ALA:O	1:D:750:GLU:HB3	2.10	0.52
1:D:904:ASN:O	1:D:905:LEU:C	2.47	0.52
1:D:1215:VAL:HG11	1:D:1283:MET:CG	2.39	0.52
1:D:1219:VAL:HG23	1:D:1328:ILE:CD1	2.40	0.52
1:D:1430:ARG:HH21	1:D:1560:MET:CE	2.22	0.52
1:D:1455:ARG:HG3	1:D:1455:ARG:NH1	2.23	0.52
1:D:1519:ILE:HD13	1:D:1519:ILE:C	2.29	0.52
2:E:240:LEU:O	2:E:243:VAL:HB	2.09	0.52
2:E:260:PRO:HG3	2:E:292:PHE:CB	2.35	0.52
2:E:390:ASN:O	2:E:394:ARG:HG3	2.10	0.52
2:E:1740:THR:HB	2:E:1751:ILE:HG13	1.90	0.52
2:E:1827:LEU:O	2:E:1830:VAL:HG12	2.10	0.52
2:E:2020:UNK:O	2:E:2021:UNK:C	2.58	0.52
1:G:786:SER:O	1:G:787:LYS:C	2.49	0.52
1:G:1544:THR:O	1:G:1545:SER:HB3	2.10	0.52
1:G:1558:ASN:C	1:G:1560:MET:N	2.63	0.52
1:G:1562:LYS:NZ	1:G:1621:PHE:HZ	2.08	0.52
1:G:1577:GLN:OE1	1:G:1592:MET:HA	2.10	0.52
2:H:91:PHE:C	2:H:93:ASN:H	2.13	0.52
2:H:122:LEU:HD23	2:H:122:LEU:C	2.29	0.52
2:H:386:LEU:O	2:H:389:LEU:HB3	2.09	0.52
2:H:480:VAL:HG13	2:H:484:ILE:HD11	1.92	0.52
2:H:489:LYS:O	2:H:491:GLU:N	2.43	0.52
2:H:1672:GLN:HB2	2:H:1676:MET:HE1	1.91	0.52
2:H:1961:UNK:O	2:H:1963:UNK:N	2.42	0.52
1:A:952:GLU:O	1:A:956:ALA:HB2	2.10	0.52
1:A:1169:LYS:NZ	1:A:1170:GLY:H	2.06	0.52
1:A:1290:LEU:O	1:A:1291:LEU:HB2	2.09	0.52
1:A:1342:GLU:O	1:A:1346:MET:HB2	2.09	0.52
1:A:1425:ILE:O	1:A:1426:LEU:CB	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1491:ARG:C	1:A:1493:ILE:N	2.63	0.52
1:A:1605:ILE:HG13	1:A:1628:SER:CB	2.39	0.52
1:A:1741:LYS:HZ1	1:A:1744:TYR:HD2	1.58	0.52
2:B:60:LEU:H	2:B:60:LEU:HD12	1.75	0.52
2:B:1739:GLU:O	2:B:1741:ILE:HG13	2.10	0.52
3:C:49:UNK:O	3:C:50:UNK:CB	2.57	0.52
1:D:1031:GLY:O	1:D:1032:SER:C	2.48	0.52
1:D:1094:GLU:HG3	1:D:1095:THR:N	2.25	0.52
1:D:1172:THR:O	1:D:1172:THR:HG22	2.09	0.52
1:D:1377:MET:O	1:D:1378:GLU:O	2.27	0.52
1:D:1534:ASP:O	1:D:1566:ARG:NE	2.37	0.52
2:E:402:LEU:HD22	2:E:405:SER:OG	2.10	0.52
2:E:1182:UNK:O	2:E:1183:UNK:O	2.28	0.52
2:E:1753:LYS:C	2:E:1755:ILE:H	2.12	0.52
2:E:1809:LEU:O	2:E:1811:GLU:N	2.43	0.52
1:G:580:UNK:O	1:G:581:UNK:C	2.58	0.52
1:G:680:ILE:HD11	1:G:703:VAL:HG13	1.91	0.52
1:G:957:VAL:HG12	1:G:961:THR:OG1	2.10	0.52
1:G:1082:GLU:CA	1:G:1085:ASP:OD1	2.58	0.52
1:G:1173:LEU:O	1:G:1174:TYR:HB2	2.10	0.52
1:G:1190:PRO:O	1:G:1191:THR:OG1	2.28	0.52
1:G:1426:LEU:HD12	1:G:1427:THR:CG2	2.40	0.52
1:G:1449:LYS:O	1:G:1453:VAL:HG23	2.10	0.52
1:G:1536:LEU:CB	1:G:1638:ALA:HB3	2.39	0.52
1:G:1554:SER:CB	1:G:1623:TYR:OH	2.57	0.52
1:G:1741:LYS:C	1:G:1743:SER:H	2.12	0.52
2:H:145:LEU:HD21	2:H:544:LYS:HG2	1.91	0.52
2:H:1207:UNK:O	2:H:1208:UNK:CB	2.58	0.52
2:H:1551:UNK:O	2:H:1552:UNK:C	2.57	0.52
2:H:1883:GLY:HA2	2:H:1894:GLU:HG2	1.92	0.52
1:A:693:LEU:HG	1:A:697:LEU:HD12	1.92	0.52
1:A:803:MET:CE	1:A:822:VAL:HG11	2.38	0.52
1:A:1430:ARG:HH21	1:A:1560:MET:CE	2.23	0.52
1:A:1459:ILE:CG1	1:A:1460:LYS:N	2.73	0.52
1:A:1534:ASP:O	1:A:1566:ARG:NE	2.35	0.52
2:B:306:ILE:HG22	2:B:310:CYS:SG	2.49	0.52
2:B:525:VAL:O	2:B:525:VAL:HG12	2.10	0.52
2:B:1038:UNK:O	2:B:1040:UNK:N	2.43	0.52
2:B:1557:UNK:O	2:B:1558:UNK:C	2.58	0.52
2:B:1792:LEU:HA	2:B:1797:LEU:CD1	2.40	0.52
2:B:1869:GLU:C	2:B:1871:LEU:N	2.61	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:529:UNK:HA	1:D:532:UNK:CB	2.40	0.52
1:D:1022:THR:O	1:D:1401:TYR:CE2	2.62	0.52
1:D:1151:LYS:O	1:D:1152:VAL:O	2.28	0.52
1:D:1513:TYR:H	1:D:1513:TYR:HD1	1.56	0.52
1:D:1654:ILE:HG12	1:D:1655:VAL:N	2.25	0.52
1:D:1735:SER:C	1:D:1737:ASN:H	2.11	0.52
2:E:73:GLU:N	2:E:74:PRO:CD	2.73	0.52
2:E:1888:ILE:HA	2:E:1891:TYR:CZ	2.45	0.52
3:F:45:UNK:O	3:F:46:UNK:CB	2.57	0.52
1:G:394:UNK:O	1:G:395:UNK:C	2.58	0.52
1:G:520:UNK:C	1:G:522:UNK:H2	2.22	0.52
1:G:586:UNK:C	1:G:588:UNK:N	2.72	0.52
1:G:1030:TRP:CE2	1:G:1580:LEU:HD11	2.45	0.52
1:G:1189:ILE:CG2	1:G:1190:PRO:CD	2.72	0.52
1:G:1221:GLU:HA	1:G:1224:ILE:CG2	2.40	0.52
1:G:1245:ASN:ND2	1:G:1288:ASN:ND2	2.57	0.52
1:G:1249:SER:OG	1:G:1250:GLY:N	2.43	0.52
1:G:1299:LYS:HZ3	1:G:1323:LYS:NZ	2.05	0.52
1:G:1562:LYS:CE	1:G:1621:PHE:HZ	2.23	0.52
1:G:1641:ILE:HD11	1:G:1653:ALA:O	2.10	0.52
2:H:218:TRP:CZ2	2:H:226:PRO:HG2	2.45	0.52
2:H:338:MET:N	2:H:386:LEU:CD1	2.73	0.52
2:H:390:ASN:O	2:H:394:ARG:HG3	2.10	0.52
2:H:730:UNK:O	2:H:732:UNK:N	2.43	0.52
2:H:1673:GLU:N	2:H:1676:MET:HE1	2.23	0.52
2:H:1675:GLY:O	2:H:1678:MET:HG2	2.10	0.52
2:H:2047:UNK:O	2:H:2049:UNK:N	2.42	0.52
1:A:304:UNK:O	1:A:305:UNK:CB	2.58	0.51
1:A:601:UNK:CB	1:A:605:UNK:CB	2.88	0.51
1:A:680:ILE:HD12	1:A:704:VAL:O	2.10	0.51
1:A:1041:ALA:HB1	1:A:1042:PHE:CD1	2.45	0.51
1:A:1135:GLU:O	1:A:1136:ALA:HB3	2.10	0.51
1:A:1153:ASP:C	1:A:1155:PHE:H	2.12	0.51
1:A:1223:PHE:CD2	1:A:1386:ILE:HD13	2.45	0.51
1:A:1341:PHE:O	1:A:1342:GLU:CB	2.54	0.51
1:A:1478:PRO:O	1:A:1479:SER:CB	2.58	0.51
2:B:174:ARG:C	2:B:176:LEU:H	2.12	0.51
2:B:232:LEU:O	2:B:232:LEU:HD23	2.10	0.51
2:B:370:LEU:HB3	2:B:372:ASN:OD1	2.09	0.51
2:B:390:ASN:HA	2:B:393:LEU:CB	2.35	0.51
2:B:843:UNK:O	2:B:845:UNK:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:887:UNK:O	2:B:888:UNK:CB	2.57	0.51
2:B:1181:UNK:O	2:B:1182:UNK:CB	2.57	0.51
2:B:1415:UNK:O	2:B:1416:UNK:CB	2.58	0.51
2:B:1729:ILE:HG23	2:B:1730:ARG:N	2.12	0.51
2:B:1868:GLN:O	2:B:1872:GLN:HB2	2.10	0.51
3:C:37:UNK:O	3:C:39:UNK:N	2.42	0.51
1:D:666:UNK:O	1:D:667:UNK:C	2.58	0.51
1:D:737:PHE:HE1	1:D:745:VAL:HA	1.75	0.51
1:D:803:MET:HB3	1:D:862:LEU:HD11	1.90	0.51
1:D:1320:LEU:O	1:D:1321:SER:C	2.48	0.51
1:D:1329:VAL:CG1	1:D:1385:GLN:N	2.71	0.51
1:D:1562:LYS:NZ	1:D:1621:PHE:HZ	2.06	0.51
2:E:753:UNK:O	2:E:754:UNK:C	2.58	0.51
2:E:1698:PHE:C	2:E:1700:ASP:H	2.12	0.51
2:E:1830:VAL:O	2:E:1833:TYR:N	2.43	0.51
2:E:1887:GLU:CD	2:E:1888:ILE:H	2.13	0.51
1:G:561:UNK:O	1:G:564:UNK:N	2.43	0.51
1:G:666:UNK:O	1:G:667:UNK:C	2.59	0.51
1:G:1057:MET:HE3	1:G:1193:TRP:O	2.10	0.51
1:G:1286:TRP:C	1:G:1288:ASN:N	2.63	0.51
1:G:1371:THR:O	1:G:1373:ARG:HG3	2.10	0.51
1:G:1604:ILE:HG23	1:G:1630:THR:CB	2.40	0.51
1:G:1658:PRO:O	1:G:1660:TYR:N	2.35	0.51
1:G:1729:GLY:O	1:G:1730:SER:HB3	2.08	0.51
2:H:304:PHE:O	2:H:308:VAL:HG23	2.09	0.51
2:H:676:UNK:O	2:H:677:UNK:C	2.57	0.51
2:H:703:UNK:C	2:H:705:UNK:N	2.71	0.51
2:H:1650:UNK:C	2:H:1652:UNK:N	2.72	0.51
2:H:1740:THR:HB	2:H:1751:ILE:HG13	1.92	0.51
2:H:1754:GLU:C	2:H:1756:ASN:N	2.63	0.51
1:A:832:THR:O	1:A:833:PHE:O	2.28	0.51
1:A:1151:LYS:O	1:A:1152:VAL:C	2.48	0.51
1:A:1250:GLY:HA3	1:A:1333:ASP:OD2	2.10	0.51
1:A:1459:ILE:HG13	1:A:1460:LYS:N	2.25	0.51
1:A:1470:LEU:HD21	1:A:1485:PHE:HE2	1.75	0.51
1:A:1599:ILE:HG13	1:A:1600:LEU:N	2.25	0.51
1:A:1692:MET:CA	1:A:1697:LEU:HD11	2.38	0.51
2:B:70:SER:HB2	2:B:72:VAL:O	2.11	0.51
2:B:240:LEU:H	2:B:240:LEU:CD1	2.23	0.51
2:B:437:ASP:O	2:B:440:ASN:HB2	2.10	0.51
2:B:699:UNK:O	2:B:702:UNK:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1041:UNK:O	2:B:1042:UNK:C	2.58	0.51
2:B:1531:UNK:O	2:B:1532:UNK:CB	2.57	0.51
2:B:1738:PHE:HB3	2:B:1739:GLU:OE2	2.10	0.51
2:B:1883:GLY:HA2	2:B:1894:GLU:HG2	1.93	0.51
3:C:27:UNK:C	3:C:29:UNK:N	2.71	0.51
1:D:882:ASN:C	1:D:883:ILE:HG13	2.30	0.51
1:D:1139:GLU:CG	1:D:1140:THR:N	2.72	0.51
1:D:1329:VAL:HG12	1:D:1385:GLN:O	2.10	0.51
1:D:1332:TYR:CA	1:D:1587:ALA:HB2	2.40	0.51
1:D:1518:ARG:O	1:D:1519:ILE:HB	2.10	0.51
1:D:1605:ILE:N	1:D:1605:ILE:HD13	2.25	0.51
1:D:1637:ARG:O	1:D:1656:VAL:HG23	2.09	0.51
1:D:1707:THR:O	1:D:1707:THR:OG1	2.22	0.51
2:E:71:LEU:HD12	2:E:76:LYS:NZ	2.25	0.51
2:E:578:UNK:O	2:E:580:UNK:N	2.44	0.51
2:E:956:UNK:C	2:E:958:UNK:N	2.70	0.51
2:E:1340:UNK:O	2:E:1341:UNK:C	2.58	0.51
2:E:1542:UNK:O	2:E:1543:UNK:CB	2.58	0.51
2:E:1602:UNK:C	2:E:1604:UNK:N	2.70	0.51
2:E:1680:LEU:O	2:E:1681:TYR:C	2.48	0.51
2:E:1785:GLU:OE1	2:E:1813:ALA:HB1	2.10	0.51
2:E:1878:VAL:CB	2:E:1898:TYR:HE1	2.21	0.51
1:G:610:UNK:CB	1:G:873:ARG:HE	2.23	0.51
1:G:1126:ILE:CG2	1:G:1177:LYS:HB3	2.40	0.51
1:G:1274:ILE:CG2	1:G:1275:LEU:N	2.73	0.51
2:H:187:LEU:HD22	2:H:296:VAL:HG11	1.91	0.51
2:H:514:VAL:O	2:H:517:HIS:N	2.43	0.51
2:H:1806:GLY:HA3	2:H:1811:GLU:HG2	1.92	0.51
2:H:1871:LEU:HD23	2:H:1871:LEU:C	2.30	0.51
1:A:281:UNK:C	1:A:283:UNK:N	2.72	0.51
1:A:890:LYS:C	1:A:892:GLY:H	2.13	0.51
1:A:1074:GLY:O	1:A:1075:TRP:HB3	2.10	0.51
1:A:1423:LYS:HG2	1:A:1424:GLY:N	2.25	0.51
1:A:1589:GLY:HA2	1:A:1592:MET:HE2	1.92	0.51
2:B:183:LEU:O	2:B:184:VAL:HB	2.09	0.51
2:B:240:LEU:O	2:B:243:VAL:HB	2.10	0.51
2:B:249:TYR:CE2	2:B:283:ILE:HG23	2.45	0.51
2:B:264:ARG:HD3	2:B:286:THR:O	2.09	0.51
2:B:304:PHE:O	2:B:308:VAL:HG23	2.10	0.51
2:B:522:GLY:HA2	2:B:555:UNK:O	2.10	0.51
2:B:730:UNK:O	2:B:732:UNK:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1441:UNK:C	2:B:1443:UNK:N	2.73	0.51
2:B:1644:UNK:C	2:B:1646:UNK:N	2.70	0.51
2:B:2040:UNK:O	2:B:2042:UNK:N	2.43	0.51
1:D:586:UNK:C	1:D:588:UNK:N	2.71	0.51
1:D:693:LEU:C	1:D:695:GLY:N	2.63	0.51
1:D:774:ILE:CD1	1:D:775:PRO:HD2	2.38	0.51
1:D:928:GLY:C	1:D:930:LEU:N	2.60	0.51
1:D:1250:GLY:HA3	1:D:1333:ASP:OD2	2.11	0.51
1:D:1286:TRP:C	1:D:1288:ASN:N	2.62	0.51
1:D:1370:THR:H	1:D:1547:LYS:CD	2.21	0.51
1:D:1370:THR:O	1:D:1371:THR:CB	2.59	0.51
1:D:1423:LYS:HG2	1:D:1424:GLY:N	2.25	0.51
1:D:1478:PRO:O	1:D:1479:SER:CB	2.59	0.51
1:D:1735:SER:O	1:D:1737:ASN:N	2.43	0.51
2:E:41:LEU:O	2:E:45:THR:HA	2.10	0.51
2:E:248:HIS:HE1	2:E:530:ALA:HB2	1.75	0.51
2:E:765:UNK:C	2:E:767:UNK:N	2.69	0.51
2:E:1264:UNK:C	2:E:1266:UNK:N	2.69	0.51
2:E:1850:SER:C	2:E:1852:TYR:H	2.14	0.51
1:G:679:LEU:HD21	1:G:802:MET:CE	2.41	0.51
1:G:1021:VAL:HG11	1:G:1597:LEU:HD11	1.90	0.51
1:G:1541:PHE:HE2	1:G:1554:SER:OG	1.94	0.51
1:G:1584:PRO:O	1:G:1584:PRO:HG2	2.11	0.51
1:G:1706:TYR:N	1:G:1706:TYR:HD1	2.09	0.51
1:G:1826:UNK:O	1:G:1827:UNK:CB	2.58	0.51
2:H:244:ILE:HG22	2:H:248:HIS:CD2	2.45	0.51
2:H:408:PRO:HG2	2:H:409:PHE:N	2.25	0.51
2:H:765:UNK:C	2:H:767:UNK:N	2.68	0.51
2:H:1038:UNK:O	2:H:1040:UNK:N	2.43	0.51
2:H:1169:UNK:C	2:H:1171:UNK:N	2.69	0.51
2:H:1857:ILE:HG12	2:H:1949:UNK:CB	2.40	0.51
1:A:1151:LYS:O	1:A:1152:VAL:O	2.28	0.51
1:A:1161:GLY:O	1:A:1164:SER:HB3	2.10	0.51
1:A:1353:LEU:CA	1:A:1356:PHE:CB	2.88	0.51
1:A:1373:ARG:HG2	1:A:1547:LYS:HB3	1.92	0.51
1:A:1544:THR:O	1:A:1545:SER:HB3	2.10	0.51
1:A:1687:PHE:O	1:A:1690:ASN:HB3	2.10	0.51
2:B:99:ASN:O	2:B:100:ASP:HB3	2.11	0.51
2:B:192:ALA:O	2:B:193:GLU:C	2.48	0.51
2:B:253:ALA:O	2:B:255:LEU:N	2.44	0.51
2:B:735:UNK:C	2:B:737:UNK:N	2.70	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1573:UNK:C	2:B:1575:UNK:N	2.72	0.51
2:B:1754:GLU:C	2:B:1756:ASN:N	2.62	0.51
1:D:304:UNK:O	1:D:305:UNK:CB	2.58	0.51
1:D:826:MET:HA	1:D:826:MET:HE3	1.93	0.51
1:D:912:GLU:O	1:D:913:VAL:C	2.48	0.51
1:D:917:CYS:SG	1:D:922:VAL:CG2	2.98	0.51
1:D:917:CYS:HA	1:D:920:SER:O	2.10	0.51
1:D:1371:THR:C	1:D:1373:ARG:H	2.13	0.51
1:D:1426:LEU:CD1	1:D:1427:THR:HG23	2.39	0.51
1:D:1571:PRO:O	1:D:1572:VAL:C	2.49	0.51
1:D:1604:ILE:HG23	1:D:1630:THR:CB	2.39	0.51
2:E:132:MET:O	2:E:133:ALA:CB	2.58	0.51
2:E:668:UNK:O	2:E:669:UNK:CB	2.58	0.51
2:E:730:UNK:O	2:E:732:UNK:N	2.44	0.51
2:E:1837:THR:C	2:E:1839:GLN:H	2.13	0.51
2:E:1986:UNK:C	2:E:1988:UNK:H	2.22	0.51
1:G:601:UNK:CB	1:G:605:UNK:CB	2.88	0.51
1:G:796:LEU:HG	1:G:797:THR:N	2.22	0.51
1:G:1139:GLU:CG	1:G:1140:THR:N	2.73	0.51
1:G:1423:LYS:HG2	1:G:1424:GLY:N	2.25	0.51
1:G:1430:ARG:HH21	1:G:1560:MET:CE	2.24	0.51
1:G:1455:ARG:C	1:G:1457:ALA:H	2.13	0.51
1:G:1532:THR:O	1:G:1533:ILE:C	2.48	0.51
2:H:71:LEU:HD12	2:H:76:LYS:NZ	2.26	0.51
2:H:809:UNK:O	2:H:811:UNK:N	2.43	0.51
2:H:895:UNK:O	2:H:898:UNK:N	2.43	0.51
2:H:1275:UNK:O	2:H:1276:UNK:C	2.57	0.51
1:A:521:UNK:O	1:A:522:UNK:C	2.59	0.51
1:A:586:UNK:C	1:A:588:UNK:N	2.71	0.51
1:A:1159:GLU:O	1:A:1166:LYS:HB3	2.10	0.51
1:A:1325:ARG:O	1:A:1326:ILE:HB	2.10	0.51
1:A:1367:ARG:NH1	1:A:1372:THR:HG21	2.26	0.51
1:A:1688:PHE:O	1:A:1689:HIS:C	2.49	0.51
2:B:27:PHE:O	2:B:30:ALA:HB3	2.09	0.51
2:B:615:UNK:O	2:B:617:UNK:N	2.43	0.51
2:B:703:UNK:O	2:B:707:UNK:N	2.44	0.51
2:B:2033:UNK:C	2:B:2035:UNK:N	2.72	0.51
1:D:864:VAL:O	1:D:865:CYS:HB2	2.10	0.51
1:D:882:ASN:O	1:D:883:ILE:HG13	2.11	0.51
1:D:1119:LYS:HE3	1:D:1121:MET:CG	2.41	0.51
1:D:1146:HIS:O	1:D:1148:HIS:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1187:GLY:CA	1:D:1188:GLN:NE2	2.74	0.51
1:D:1397:GLY:H	1:D:1676:LYS:CB	2.23	0.51
1:D:1519:ILE:HD11	1:D:1521:PRO:HD2	1.92	0.51
2:E:19:VAL:O	2:E:19:VAL:HG12	2.10	0.51
2:E:158:ALA:H	2:E:270:ALA:H	1.57	0.51
2:E:232:LEU:O	2:E:232:LEU:HD23	2.11	0.51
2:E:349:VAL:HG21	2:E:377:LEU:CD1	2.33	0.51
2:E:703:UNK:O	2:E:707:UNK:N	2.44	0.51
2:E:809:UNK:O	2:E:811:UNK:N	2.43	0.51
1:G:681:THR:HA	1:G:706:THR:HG21	1.92	0.51
1:G:747:ALA:O	1:G:751:PHE:N	2.37	0.51
1:G:1131:LEU:CA	1:G:1173:LEU:HD22	2.40	0.51
1:G:1456:GLU:N	1:G:1459:ILE:HG12	2.23	0.51
1:G:1540:SER:OG	1:G:1592:MET:HB3	2.10	0.51
1:G:1654:ILE:HG12	1:G:1655:VAL:N	2.24	0.51
2:H:49:ALA:CA	2:H:118:LYS:HZ2	2.21	0.51
2:H:55:THR:O	2:H:55:THR:HG22	2.10	0.51
2:H:73:GLU:N	2:H:74:PRO:CD	2.74	0.51
2:H:259:THR:CG2	2:H:260:PRO:HD2	2.35	0.51
2:H:271:THR:HG23	2:H:460:TYR:O	2.10	0.51
2:H:615:UNK:O	2:H:617:UNK:N	2.43	0.51
2:H:1773:ALA:C	2:H:1775:GLN:N	2.64	0.51
1:A:679:LEU:HA	1:A:704:VAL:O	2.11	0.51
1:A:696:LEU:HD23	1:A:696:LEU:H	1.75	0.51
1:A:1080:THR:O	1:A:1082:GLU:N	2.43	0.51
1:A:1353:LEU:HA	1:A:1356:PHE:CB	2.40	0.51
1:A:1532:THR:O	1:A:1533:ILE:C	2.48	0.51
1:A:1590:ALA:O	1:A:1593:MET:HB3	2.09	0.51
1:A:1616:LYS:O	1:A:1618:LEU:N	2.43	0.51
1:A:1735:SER:C	1:A:1737:ASN:N	2.63	0.51
2:B:490:TRP:O	2:B:493:THR:N	2.44	0.51
2:B:1182:UNK:O	2:B:1183:UNK:O	2.28	0.51
2:B:1429:UNK:O	2:B:1430:UNK:C	2.57	0.51
1:D:742:LYS:HB2	1:D:746:GLU:HG3	1.92	0.51
1:D:910:THR:HG22	1:D:913:VAL:HG21	1.93	0.51
1:D:1100:HIS:O	1:D:1103:ILE:HB	2.11	0.51
1:D:1160:THR:CB	1:D:1166:LYS:HE3	2.39	0.51
1:D:1266:LYS:O	1:D:1267:ASP:C	2.48	0.51
1:D:1475:GLU:O	1:D:1478:PRO:HD2	2.09	0.51
1:D:1580:LEU:C	1:D:1581:THR:OG1	2.49	0.51
2:E:338:MET:N	2:E:386:LEU:CD1	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:514:VAL:O	2:E:517:HIS:N	2.44	0.51
2:E:1644:UNK:C	2:E:1646:UNK:N	2.72	0.51
1:G:377:UNK:O	1:G:380:UNK:CB	2.57	0.51
1:G:774:ILE:HD13	1:G:775:PRO:HD2	1.91	0.51
1:G:1079:LYS:C	1:G:1080:THR:HG1	2.13	0.51
1:G:1080:THR:O	1:G:1082:GLU:N	2.44	0.51
1:G:1135:GLU:O	1:G:1136:ALA:HB3	2.11	0.51
1:G:1215:VAL:HG11	1:G:1283:MET:CG	2.40	0.51
1:G:1219:VAL:HG23	1:G:1328:ILE:CD1	2.40	0.51
1:G:1224:ILE:HD13	1:G:1687:PHE:CD2	2.46	0.51
1:G:1546:THR:CG2	1:G:1549:ASN:HB3	2.40	0.51
1:G:1605:ILE:HG13	1:G:1628:SER:CB	2.40	0.51
1:G:1665:ILE:HD12	1:G:1669:ARG:N	2.19	0.51
2:H:14:GLY:HA3	2:H:18:HIS:HB2	1.92	0.51
2:H:230:TYR:C	2:H:232:LEU:N	2.63	0.51
2:H:240:LEU:H	2:H:240:LEU:CD1	2.22	0.51
2:H:440:ASN:O	2:H:443:LEU:HB2	2.10	0.51
2:H:949:UNK:C	2:H:951:UNK:N	2.74	0.51
2:H:1837:THR:C	2:H:1839:GLN:H	2.14	0.51
2:H:1853:GLY:O	2:H:1854:MET:HB3	2.10	0.51
3:I:49:UNK:O	3:I:50:UNK:CB	2.59	0.51
1:A:747:ALA:O	1:A:750:GLU:HB3	2.11	0.51
1:A:1055:TRP:HH2	1:A:1198:TYR:HD1	1.59	0.51
1:A:1083:PRO:HG2	1:A:1084:VAL:N	2.25	0.51
1:A:1284:SER:CB	1:A:1298:ILE:HD11	2.41	0.51
1:A:1522:LEU:HB3	1:A:1526:LEU:HD23	1.92	0.51
1:A:1541:PHE:CE2	1:A:1554:SER:OG	2.62	0.51
1:A:1569:GLY:C	1:A:1571:PRO:HD3	2.31	0.51
1:A:1571:PRO:O	1:A:1572:VAL:C	2.49	0.51
1:A:1597:LEU:HD23	1:A:1597:LEU:H	1.75	0.51
1:A:1700:SER:C	1:A:1701:LYS:HD3	2.31	0.51
2:B:924:UNK:O	2:B:925:UNK:C	2.58	0.51
2:B:1680:LEU:O	2:B:1681:TYR:C	2.49	0.51
2:B:1718:THR:HG23	2:B:1765:ARG:CA	2.40	0.51
2:B:1773:ALA:C	2:B:1775:GLN:N	2.64	0.51
2:B:1837:THR:C	2:B:1839:GLN:H	2.14	0.51
1:D:460:UNK:C	1:D:462:UNK:N	2.71	0.51
1:D:786:SER:O	1:D:787:LYS:C	2.49	0.51
1:D:1019:ILE:HG13	1:D:1316:VAL:CG2	2.37	0.51
1:D:1036:ARG:HH21	1:D:1040:GLU:CB	2.24	0.51
1:D:1089:VAL:C	1:D:1091:ALA:N	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1197:THR:OG1	1:D:1200:ILE:HG22	2.09	0.51
1:D:1224:ILE:CD1	1:D:1687:PHE:HD2	2.24	0.51
1:D:1239:HIS:C	1:D:1241:SER:N	2.60	0.51
1:D:1241:SER:C	1:D:1243:VAL:N	2.64	0.51
1:D:1652:GLN:CD	1:D:1653:ALA:N	2.64	0.51
1:D:1868:UNK:CB	1:D:1885:UNK:HA	2.40	0.51
2:E:57:PRO:C	2:E:59:GLU:N	2.63	0.51
2:E:91:PHE:C	2:E:93:ASN:H	2.13	0.51
2:E:264:ARG:HB2	2:E:284:ALA:O	2.10	0.51
2:E:646:UNK:O	2:E:648:UNK:N	2.43	0.51
2:E:1061:UNK:C	2:E:1063:UNK:N	2.73	0.51
2:E:1786:LYS:O	2:E:1787:ALA:C	2.49	0.51
1:G:705:VAL:HG23	1:G:732:LEU:HD11	1.92	0.51
1:G:791:ALA:HA	1:G:794:ILE:CG2	2.39	0.51
1:G:984:PRO:O	1:G:985:ARG:O	2.28	0.51
1:G:1035:THR:O	1:G:1038:GLU:HB2	2.10	0.51
1:G:1065:GLY:C	1:G:1067:LEU:N	2.62	0.51
1:G:1119:LYS:O	1:G:1120:GLU:HB2	2.11	0.51
1:G:1172:THR:O	1:G:1172:THR:HG22	2.11	0.51
1:G:1187:GLY:C	1:G:1188:GLN:CD	2.69	0.51
1:G:1223:PHE:HE2	1:G:1386:ILE:CG2	2.12	0.51
1:G:1425:ILE:O	1:G:1426:LEU:CB	2.58	0.51
2:H:876:UNK:O	2:H:877:UNK:CB	2.59	0.51
2:H:1698:PHE:O	2:H:1700:ASP:N	2.43	0.51
2:H:1715:VAL:CA	2:H:1718:THR:HG22	2.40	0.51
2:H:1986:UNK:C	2:H:1988:UNK:H	2.23	0.51
1:A:1266:LYS:O	1:A:1267:ASP:C	2.48	0.51
1:A:1329:VAL:HG12	1:A:1385:GLN:O	2.10	0.51
1:A:1390:ALA:O	1:A:1393:ALA:HB3	2.11	0.51
1:A:1476:GLU:C	1:A:1478:PRO:HD2	2.32	0.51
1:A:1640:SER:H	1:A:1654:ILE:HG13	1.75	0.51
1:A:1640:SER:CB	1:A:1654:ILE:HB	2.41	0.51
1:A:1646:PHE:C	1:A:1648:GLN:N	2.64	0.51
2:B:264:ARG:HB2	2:B:284:ALA:O	2.11	0.51
2:B:339:LEU:HB2	2:B:420:PHE:CE1	2.45	0.51
2:B:514:VAL:O	2:B:517:HIS:N	2.44	0.51
2:B:668:UNK:O	2:B:669:UNK:CB	2.58	0.51
2:B:1887:GLU:CD	2:B:1888:ILE:H	2.13	0.51
1:D:398:UNK:O	1:D:400:UNK:N	2.43	0.51
1:D:944:ARG:O	1:D:948:VAL:N	2.40	0.51
1:D:1025:ALA:CB	1:D:1221:GLU:HB3	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1080:THR:O	1:D:1082:GLU:N	2.44	0.51
1:D:1119:LYS:O	1:D:1119:LYS:HD2	2.10	0.51
1:D:1260:MET:HB3	1:D:1261:PHE:CE2	2.46	0.51
1:D:1359:GLY:O	1:D:1360:ARG:O	2.28	0.51
1:D:1692:MET:CA	1:D:1697:LEU:HD11	2.39	0.51
2:E:41:LEU:HD13	2:E:46:GLU:HA	1.91	0.51
2:E:304:PHE:O	2:E:308:VAL:HG23	2.11	0.51
2:E:1737:ILE:HG23	2:E:1755:ILE:HG21	1.92	0.51
2:E:1884:TRP:N	2:E:1892:ASN:HB2	2.22	0.51
1:G:695:GLY:O	1:G:697:LEU:N	2.43	0.51
1:G:830:HIS:CD2	1:G:830:HIS:N	2.71	0.51
1:G:1009:LEU:H	1:G:1009:LEU:CD1	2.24	0.51
1:G:1100:HIS:C	1:G:1102:GLY:N	2.63	0.51
1:G:1131:LEU:CB	1:G:1133:PRO:HD3	2.31	0.51
1:G:1159:GLU:O	1:G:1166:LYS:HB3	2.10	0.51
1:G:1320:LEU:O	1:G:1321:SER:C	2.46	0.51
1:G:1456:GLU:N	1:G:1459:ILE:CG1	2.69	0.51
1:G:1539:ALA:O	1:G:1575:VAL:HG23	2.11	0.51
2:H:261:GLY:HA2	2:H:264:ARG:CD	2.40	0.51
2:H:281:VAL:HG12	2:H:282:ALA:N	2.26	0.51
2:H:292:PHE:O	2:H:296:VAL:HG23	2.11	0.51
2:H:1691:TRP:CE3	2:H:1783:LEU:HD13	2.46	0.51
2:H:1742:VAL:HG21	2:H:1840:VAL:HG22	1.93	0.51
2:H:1888:ILE:O	2:H:1891:TYR:HE1	1.94	0.51
2:H:1904:LEU:O	2:H:1907:LEU:HG	2.11	0.51
1:A:388:UNK:O	1:A:389:UNK:C	2.59	0.51
1:A:460:UNK:O	1:A:462:UNK:N	2.44	0.51
1:A:574:UNK:O	1:A:577:UNK:N	2.44	0.51
1:A:796:LEU:HD12	1:A:800:LEU:HD21	1.93	0.51
1:A:911:PRO:O	1:A:912:GLU:CB	2.56	0.51
1:A:1100:HIS:O	1:A:1103:ILE:HB	2.11	0.51
1:A:1246:CYS:HA	1:A:1327:CYS:SG	2.51	0.51
1:A:1320:LEU:CG	1:A:1321:SER:N	2.73	0.51
1:A:1392:LEU:HD22	1:A:1392:LEU:N	2.22	0.51
1:A:1639:VAL:HG23	1:A:1640:SER:N	2.24	0.51
1:A:1681:GLU:O	1:A:1682:LYS:HB2	2.11	0.51
1:A:1692:MET:N	1:A:1697:LEU:HD11	2.25	0.51
1:A:1868:UNK:CB	1:A:1885:UNK:HA	2.40	0.51
2:B:239:PRO:HG2	2:B:240:LEU:H	1.75	0.51
2:B:267:LEU:O	2:B:268:LYS:CB	2.59	0.51
2:B:271:THR:HG23	2:B:460:TYR:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:309:ARG:CG	2:B:439:ILE:HG22	2.40	0.51
2:B:753:UNK:O	2:B:754:UNK:C	2.59	0.51
2:B:1738:PHE:HB2	2:B:1755:ILE:HB	1.93	0.51
2:B:1762:TYR:C	2:B:1763:THR:HG1	2.10	0.51
1:D:381:UNK:O	1:D:382:UNK:C	2.57	0.51
1:D:520:UNK:C	1:D:522:UNK:H2	2.22	0.51
1:D:1021:VAL:HG11	1:D:1597:LEU:HD11	1.92	0.51
1:D:1035:THR:CG2	1:D:1053:MET:SD	2.96	0.51
1:D:1085:ASP:O	1:D:1086:ASP:C	2.49	0.51
1:D:1173:LEU:O	1:D:1174:TYR:HB2	2.10	0.51
1:D:1244:GLY:O	1:D:1327:CYS:HA	2.11	0.51
1:D:1325:ARG:O	1:D:1326:ILE:HB	2.11	0.51
1:D:1605:ILE:CG1	1:D:1628:SER:HB3	2.41	0.51
2:E:321:PRO:C	2:E:323:ILE:N	2.64	0.51
2:E:1295:UNK:O	2:E:1299:UNK:N	2.44	0.51
2:E:1715:VAL:CA	2:E:1718:THR:HG22	2.41	0.51
2:E:1739:GLU:O	2:E:1741:ILE:HG13	2.11	0.51
2:E:1874:VAL:HG12	2:E:1878:VAL:CG2	2.41	0.51
2:E:2047:UNK:O	2:E:2049:UNK:N	2.42	0.51
1:G:278:UNK:O	1:G:279:UNK:CB	2.59	0.51
1:G:304:UNK:O	1:G:305:UNK:CB	2.58	0.51
1:G:780:GLU:O	1:G:781:LEU:C	2.50	0.51
1:G:910:THR:HG23	1:G:913:VAL:HG23	1.93	0.51
1:G:1085:ASP:O	1:G:1086:ASP:C	2.49	0.51
1:G:1186:ALA:HB1	1:G:1349:THR:HG21	1.93	0.51
1:G:1264:ARG:O	1:G:1265:PHE:C	2.50	0.51
1:G:1448:ARG:O	1:G:1451:GLN:HB3	2.11	0.51
1:G:1868:UNK:CB	1:G:1885:UNK:HA	2.41	0.51
2:H:91:PHE:CE2	2:H:101:ILE:HD11	2.45	0.51
2:H:813:UNK:C	2:H:815:UNK:N	2.74	0.51
2:H:875:UNK:O	2:H:876:UNK:CB	2.59	0.51
2:H:1764:PHE:O	2:H:1765:ARG:CB	2.59	0.51
1:A:398:UNK:O	1:A:400:UNK:N	2.44	0.51
1:A:742:LYS:O	1:A:744:ASP:N	2.43	0.51
1:A:1085:ASP:O	1:A:1086:ASP:C	2.50	0.51
1:A:1112:ASN:ND2	1:A:1119:LYS:HA	2.26	0.51
1:A:1329:VAL:CG1	1:A:1330:GLY:N	2.65	0.51
1:A:1449:LYS:O	1:A:1453:VAL:HG23	2.11	0.51
2:B:587:UNK:O	2:B:784:UNK:CB	2.58	0.51
2:B:895:UNK:O	2:B:898:UNK:N	2.43	0.51
2:B:1149:UNK:C	2:B:1151:UNK:N	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:695:GLY:O	1:D:697:LEU:N	2.44	0.51
1:D:719:GLN:CG	1:D:720:SER:N	2.70	0.51
1:D:791:ALA:HA	1:D:794:ILE:CG2	2.37	0.51
1:D:810:LYS:O	1:D:812:ALA:N	2.44	0.51
1:D:1223:PHE:CD2	1:D:1386:ILE:HD13	2.45	0.51
1:D:1448:ARG:O	1:D:1451:GLN:HB3	2.11	0.51
2:E:213:LEU:HD11	2:E:215:ILE:HD11	1.92	0.51
2:E:244:ILE:HG22	2:E:248:HIS:CD2	2.46	0.51
2:E:390:ASN:C	2:E:393:LEU:HB3	2.31	0.51
2:E:1051:UNK:O	2:E:1053:UNK:N	2.44	0.51
2:E:1706:ILE:HD13	2:E:1783:LEU:HD12	1.92	0.51
2:E:1738:PHE:HB2	2:E:1755:ILE:HB	1.93	0.51
2:E:1853:GLY:O	2:E:1854:MET:HB3	2.11	0.51
1:G:529:UNK:HA	1:G:532:UNK:CB	2.41	0.51
1:G:791:ALA:O	1:G:794:ILE:N	2.44	0.51
1:G:901:MET:CE	1:G:905:LEU:CD2	2.89	0.51
1:G:952:GLU:O	1:G:956:ALA:HB2	2.11	0.51
1:G:1142:GLU:H	1:G:1144:PHE:HE1	1.59	0.51
1:G:1146:HIS:O	1:G:1147:GLN:C	2.50	0.51
1:G:1197:THR:CA	1:G:1200:ILE:HG22	2.40	0.51
1:G:1569:GLY:C	1:G:1571:PRO:HD3	2.31	0.51
1:G:1717:ASP:C	1:G:1719:LEU:H	2.14	0.51
2:H:192:ALA:O	2:H:193:GLU:C	2.49	0.51
2:H:1137:UNK:O	2:H:1139:UNK:N	2.44	0.51
2:H:1740:THR:C	2:H:1741:ILE:HG13	2.29	0.51
1:A:700:GLY:CA	1:A:727:ALA:HB3	2.38	0.50
1:A:737:PHE:HE1	1:A:745:VAL:HA	1.76	0.50
1:A:904:ASN:N	1:A:904:ASN:ND2	2.58	0.50
1:A:944:ARG:O	1:A:948:VAL:N	2.39	0.50
1:A:1130:ASP:HB2	1:A:1174:TYR:N	2.21	0.50
1:A:1187:GLY:C	1:A:1188:GLN:CD	2.69	0.50
1:A:1197:THR:OG1	1:A:1200:ILE:HG22	2.11	0.50
1:A:1280:ILE:N	1:A:1280:ILE:CD1	2.58	0.50
1:A:1453:VAL:O	1:A:1457:ALA:HB2	2.11	0.50
1:A:1519:ILE:C	1:A:1519:ILE:HD13	2.31	0.50
1:A:1605:ILE:CG1	1:A:1606:PRO:HA	2.40	0.50
1:A:1610:ASN:O	1:A:1611:ALA:O	2.29	0.50
1:A:1625:LEU:HD11	1:A:1626:TYR:HD1	1.76	0.50
1:A:1729:GLY:O	1:A:1730:SER:HB3	2.10	0.50
2:B:4:TYR:HD1	2:B:5:SER:H	1.59	0.50
2:B:159:ILE:HG22	2:B:160:PHE:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:429:SER:HB2	2:B:431:LEU:HD23	1.92	0.50
2:B:753:UNK:O	2:B:754:UNK:O	2.29	0.50
2:B:1211:UNK:O	2:B:1212:UNK:CB	2.59	0.50
2:B:1871:LEU:HD23	2:B:1871:LEU:C	2.31	0.50
1:D:565:UNK:C	1:D:567:UNK:N	2.72	0.50
1:D:625:UNK:O	1:D:626:UNK:C	2.59	0.50
1:D:680:ILE:HD11	1:D:703:VAL:CG1	2.41	0.50
1:D:691:GLU:OE2	1:D:900:GLU:HG2	2.11	0.50
1:D:829:ASN:HB3	1:D:832:THR:HG21	1.93	0.50
1:D:1041:ALA:HB1	1:D:1042:PHE:CD1	2.46	0.50
1:D:1045:PHE:O	1:D:1046:SER:O	2.29	0.50
1:D:1156:GLU:HG2	1:D:1169:LYS:HA	1.92	0.50
1:D:1240:VAL:HG13	1:D:1242:GLU:HB2	1.93	0.50
1:D:1596:ALA:O	1:D:1597:LEU:C	2.47	0.50
1:D:1604:ILE:CG2	1:D:1605:ILE:H	2.04	0.50
1:D:1639:VAL:HG21	1:D:1655:VAL:HG12	1.92	0.50
1:D:1640:SER:H	1:D:1654:ILE:HG13	1.74	0.50
1:D:1692:MET:N	1:D:1697:LEU:HD11	2.26	0.50
2:E:173:LEU:O	2:E:176:LEU:HB3	2.11	0.50
2:E:261:GLY:HA2	2:E:264:ARG:CD	2.40	0.50
2:E:1557:UNK:O	2:E:1558:UNK:C	2.59	0.50
2:E:1573:UNK:C	2:E:1575:UNK:N	2.72	0.50
2:E:1883:GLY:HA2	2:E:1894:GLU:HG2	1.92	0.50
2:E:1931:LEU:HA	2:E:1934:GLU:HB3	1.91	0.50
1:G:691:GLU:OE2	1:G:900:GLU:HG2	2.11	0.50
1:G:742:LYS:HB2	1:G:746:GLU:HG3	1.93	0.50
1:G:1035:THR:CG2	1:G:1053:MET:SD	2.97	0.50
1:G:1119:LYS:HE3	1:G:1121:MET:CG	2.40	0.50
1:G:1240:VAL:CG1	1:G:1242:GLU:HB3	2.41	0.50
1:G:1248:GLY:HA2	1:G:1330:GLY:HA3	1.92	0.50
1:G:1329:VAL:HG12	1:G:1385:GLN:O	2.11	0.50
1:G:1519:ILE:HD13	1:G:1519:ILE:C	2.31	0.50
1:G:1610:ASN:O	1:G:1611:ALA:O	2.28	0.50
2:H:240:LEU:O	2:H:243:VAL:HB	2.12	0.50
2:H:404:GLN:HA	2:H:408:PRO:HB3	1.91	0.50
2:H:703:UNK:O	2:H:707:UNK:N	2.44	0.50
2:H:1738:PHE:HB2	2:H:1755:ILE:CG2	2.42	0.50
2:H:1924:ILE:C	2:H:1926:GLU:N	2.64	0.50
1:A:381:UNK:O	1:A:382:UNK:C	2.58	0.50
1:A:580:UNK:O	1:A:581:UNK:C	2.59	0.50
1:A:644:UNK:C	1:A:646:UNK:N	2.67	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:901:MET:O	1:A:901:MET:HG2	2.09	0.50
1:A:1371:THR:O	1:A:1373:ARG:HG3	2.12	0.50
1:A:1738:ILE:O	1:A:1739:GLN:CB	2.59	0.50
2:B:321:PRO:O	2:B:323:ILE:N	2.44	0.50
2:B:646:UNK:O	2:B:648:UNK:N	2.44	0.50
2:B:1207:UNK:O	2:B:1208:UNK:CB	2.59	0.50
2:B:1742:VAL:HG21	2:B:1840:VAL:HG22	1.92	0.50
1:D:601:UNK:CB	1:D:605:UNK:CB	2.89	0.50
1:D:890:LYS:C	1:D:892:GLY:H	2.14	0.50
1:D:910:THR:HG23	1:D:913:VAL:HG23	1.93	0.50
1:D:1055:TRP:HH2	1:D:1198:TYR:HD1	1.56	0.50
1:D:1112:ASN:C	1:D:1114:TYR:N	2.55	0.50
1:D:1264:ARG:O	1:D:1265:PHE:C	2.49	0.50
1:D:1306:ALA:HB2	1:D:1645:GLY:N	2.26	0.50
1:D:1327:CYS:HB3	1:D:1387:ILE:HD11	1.92	0.50
1:D:1562:LYS:CE	1:D:1621:PHE:HZ	2.24	0.50
1:D:1665:ILE:HG22	1:D:1666:THR:N	2.26	0.50
1:D:1741:LYS:HA	1:D:1741:LYS:CE	2.42	0.50
2:E:13:HIS:C	2:E:15:SER:N	2.65	0.50
2:E:184:VAL:HG22	2:E:184:VAL:O	2.11	0.50
2:E:192:ALA:O	2:E:193:GLU:C	2.49	0.50
2:E:267:LEU:O	2:E:268:LYS:CB	2.59	0.50
2:E:292:PHE:O	2:E:296:VAL:HG23	2.11	0.50
2:E:375:LYS:CG	2:E:376:ASN:H	2.24	0.50
2:E:390:ASN:HA	2:E:393:LEU:CB	2.37	0.50
2:E:753:UNK:O	2:E:754:UNK:O	2.30	0.50
2:E:1737:ILE:O	2:E:1738:PHE:CB	2.59	0.50
2:E:1871:LEU:HD23	2:E:1871:LEU:C	2.31	0.50
2:E:1924:ILE:C	2:E:1926:GLU:N	2.65	0.50
1:G:690:ALA:O	1:G:694:GLN:HG3	2.11	0.50
1:G:1067:LEU:HD11	1:G:1073:THR:OG1	2.11	0.50
1:G:1580:LEU:O	1:G:1581:THR:OG1	2.29	0.50
1:G:1637:ARG:O	1:G:1657:HIS:N	2.39	0.50
2:H:390:ASN:C	2:H:393:LEU:HB3	2.32	0.50
2:H:723:UNK:O	2:H:725:UNK:N	2.44	0.50
2:H:1707:LEU:O	2:H:1708:ASP:C	2.49	0.50
1:A:791:ALA:O	1:A:794:ILE:N	2.45	0.50
1:A:829:ASN:HB3	1:A:832:THR:CB	2.42	0.50
1:A:882:ASN:C	1:A:883:ILE:HG13	2.31	0.50
1:A:905:LEU:O	1:A:908:LEU:HB3	2.12	0.50
1:A:984:PRO:O	1:A:985:ARG:O	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1029:PRO:CG	1:A:1581:THR:HG23	2.40	0.50
1:A:1046:SER:O	1:A:1047:LEU:C	2.50	0.50
2:B:199:ILE:HG12	2:B:200:ARG:N	2.26	0.50
2:B:273:HIS:O	2:B:276:GLY:N	2.43	0.50
2:B:528:ILE:CG2	2:B:529:VAL:N	2.74	0.50
1:D:446:UNK:CB	1:D:1619:GLU:OE2	2.59	0.50
1:D:693:LEU:HG	1:D:697:LEU:HD12	1.92	0.50
1:D:791:ALA:O	1:D:794:ILE:N	2.43	0.50
1:D:832:THR:O	1:D:833:PHE:O	2.27	0.50
1:D:1207:GLN:NE2	1:D:1207:GLN:CA	2.75	0.50
1:D:1274:ILE:O	1:D:1276:GLN:N	2.44	0.50
2:E:14:GLY:HA3	2:E:18:HIS:HB2	1.93	0.50
2:E:261:GLY:HA2	2:E:264:ARG:NE	2.27	0.50
2:E:375:LYS:O	2:E:377:LEU:HD12	2.12	0.50
2:E:489:LYS:O	2:E:491:GLU:N	2.44	0.50
2:E:807:UNK:N	2:E:1034:UNK:CB	2.74	0.50
2:E:895:UNK:O	2:E:898:UNK:N	2.44	0.50
1:G:679:LEU:O	1:G:679:LEU:CD1	2.59	0.50
1:G:808:LYS:O	1:G:812:ALA:N	2.38	0.50
1:G:895:THR:OG1	1:G:928:GLY:HA3	2.11	0.50
1:G:1292:ILE:HG13	1:G:1294:SER:HB2	1.93	0.50
1:G:1532:THR:OG1	1:G:1535:ASP:HB3	2.11	0.50
1:G:1541:PHE:CE2	1:G:1554:SER:OG	2.64	0.50
1:G:1561:MET:HA	1:G:1561:MET:CE	2.41	0.50
1:G:1639:VAL:HG23	1:G:1655:VAL:H	1.76	0.50
2:H:27:PHE:O	2:H:30:ALA:HB3	2.12	0.50
2:H:393:LEU:HD21	2:H:418:ASN:HB3	1.93	0.50
2:H:423:VAL:HG12	2:H:425:SER:O	2.12	0.50
2:H:522:GLY:HA2	2:H:555:UNK:O	2.11	0.50
2:H:1379:UNK:CA	2:H:1426:UNK:HA	2.37	0.50
2:H:1557:UNK:O	2:H:1558:UNK:C	2.60	0.50
2:H:1827:LEU:O	2:H:1830:VAL:HG12	2.11	0.50
1:A:929:GLY:C	1:A:931:GLN:N	2.65	0.50
1:A:1036:ARG:NH2	1:A:1040:GLU:OE1	2.43	0.50
1:A:1079:LYS:O	1:A:1083:PRO:HD2	2.11	0.50
1:A:1258:ARG:NH1	1:A:1263:ASP:OD2	2.41	0.50
1:A:1274:ILE:O	1:A:1276:GLN:N	2.44	0.50
1:A:1403:ILE:CG2	1:A:1656:VAL:O	2.60	0.50
1:A:1450:ARG:HG3	1:A:1450:ARG:NH1	2.25	0.50
1:A:1456:GLU:N	1:A:1459:ILE:CG1	2.68	0.50
1:A:1646:PHE:C	1:A:1648:GLN:H	2.13	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:653:UNK:O	2:B:654:UNK:C	2.60	0.50
2:B:1551:UNK:O	2:B:1552:UNK:C	2.58	0.50
2:B:1853:GLY:O	2:B:1854:MET:HB3	2.12	0.50
2:B:1989:UNK:C	2:B:1991:UNK:N	2.75	0.50
1:D:655:UNK:O	1:D:657:UNK:N	2.45	0.50
1:D:700:GLY:CA	1:D:727:ALA:HB3	2.36	0.50
1:D:782:GLU:O	1:D:784:ILE:HG22	2.11	0.50
1:D:911:PRO:O	1:D:912:GLU:CB	2.59	0.50
1:D:990:LEU:O	1:D:991:ASP:OD1	2.30	0.50
1:D:1130:ASP:HB2	1:D:1174:TYR:N	2.24	0.50
1:D:1189:ILE:HG23	1:D:1377:MET:CE	2.41	0.50
1:D:1291:LEU:N	1:D:1291:LEU:CD1	2.75	0.50
1:D:1379:ALA:O	1:D:1380:GLN:O	2.29	0.50
1:D:1450:ARG:HG3	1:D:1450:ARG:NH1	2.26	0.50
1:D:1459:ILE:CG1	1:D:1460:LYS:N	2.74	0.50
1:D:1522:LEU:HB3	1:D:1526:LEU:HD23	1.92	0.50
1:D:1641:ILE:O	1:D:1642:THR:CB	2.60	0.50
1:D:1738:ILE:O	1:D:1739:GLN:CB	2.59	0.50
2:E:249:TYR:CE2	2:E:283:ILE:HG23	2.47	0.50
2:E:370:LEU:HB3	2:E:372:ASN:OD1	2.11	0.50
2:E:735:UNK:C	2:E:737:UNK:N	2.71	0.50
2:E:928:UNK:O	2:E:929:UNK:C	2.59	0.50
2:E:1058:UNK:O	2:E:1059:UNK:C	2.60	0.50
2:E:1707:LEU:O	2:E:1708:ASP:C	2.50	0.50
2:E:1715:VAL:CG2	2:E:1716:ASN:N	2.63	0.50
1:G:574:UNK:O	1:G:577:UNK:N	2.45	0.50
1:G:1045:PHE:O	1:G:1046:SER:O	2.30	0.50
1:G:1079:LYS:O	1:G:1083:PRO:HD2	2.11	0.50
1:G:1097:ILE:O	1:G:1098:LEU:HD13	2.11	0.50
1:G:1151:LYS:O	1:G:1152:VAL:C	2.50	0.50
1:G:1153:ASP:CG	1:G:1157:ILE:HG23	2.31	0.50
1:G:1156:GLU:CG	1:G:1169:LYS:HA	2.41	0.50
1:G:1241:SER:C	1:G:1243:VAL:N	2.65	0.50
1:G:1320:LEU:CG	1:G:1321:SER:N	2.74	0.50
1:G:1476:GLU:O	1:G:1476:GLU:HG3	2.12	0.50
1:G:1582:GLY:O	1:G:1583:HIS:C	2.50	0.50
1:G:1605:ILE:N	1:G:1605:ILE:HD13	2.26	0.50
1:G:1626:TYR:HB2	1:G:1627:PRO:HD2	1.94	0.50
1:G:1636:VAL:HG13	1:G:1657:HIS:CD2	2.46	0.50
2:H:13:HIS:C	2:H:15:SER:N	2.65	0.50
2:H:368:ILE:HG23	2:H:368:ILE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:585:UNK:O	2:H:586:UNK:CB	2.59	0.50
2:H:1014:UNK:O	2:H:1016:UNK:N	2.44	0.50
2:H:1644:UNK:C	2:H:1646:UNK:N	2.70	0.50
2:H:1773:ALA:C	2:H:1775:GLN:H	2.13	0.50
2:H:1786:LYS:O	2:H:1787:ALA:C	2.50	0.50
2:H:1989:UNK:C	2:H:1991:UNK:N	2.74	0.50
3:I:59:UNK:O	3:I:60:UNK:C	2.59	0.50
1:A:1000:GLN:C	1:A:1002:LYS:H	2.15	0.50
1:A:1207:GLN:NE2	1:A:1207:GLN:CA	2.74	0.50
1:A:1240:VAL:CG1	1:A:1242:GLU:HB3	2.40	0.50
1:A:1554:SER:CB	1:A:1623:TYR:OH	2.59	0.50
2:B:173:LEU:O	2:B:176:LEU:HB3	2.12	0.50
2:B:230:TYR:C	2:B:232:LEU:N	2.65	0.50
2:B:241:ILE:HA	2:B:244:ILE:CD1	2.42	0.50
2:B:1061:UNK:C	2:B:1063:UNK:N	2.72	0.50
2:B:1672:GLN:HB3	2:B:1781:LEU:HD11	1.92	0.50
2:B:1737:ILE:O	2:B:1738:PHE:CB	2.59	0.50
2:B:1830:VAL:HG13	2:B:1831:VAL:H	1.77	0.50
2:B:1904:LEU:O	2:B:1907:LEU:HG	2.11	0.50
1:D:703:VAL:HG13	1:D:704:VAL:N	2.27	0.50
1:D:905:LEU:O	1:D:908:LEU:HB3	2.11	0.50
1:D:1083:PRO:HG2	1:D:1084:VAL:N	2.26	0.50
1:D:1148:HIS:C	1:D:1150:ASP:N	2.64	0.50
1:D:1193:TRP:O	1:D:1194:ASN:CB	2.59	0.50
1:D:1241:SER:HB3	1:D:1295:SER:H	1.77	0.50
1:D:1342:GLU:O	1:D:1346:MET:HB2	2.11	0.50
1:D:1426:LEU:HD12	1:D:1427:THR:CG2	2.40	0.50
1:D:1491:ARG:C	1:D:1493:ILE:N	2.64	0.50
1:D:1872:UNK:HA	1:D:1881:UNK:CB	2.42	0.50
2:E:99:ASN:O	2:E:100:ASP:HB3	2.11	0.50
2:E:184:VAL:HG21	2:E:247:ALA:HB1	1.92	0.50
2:E:480:VAL:HG13	2:E:484:ILE:HD11	1.92	0.50
2:E:876:UNK:O	2:E:877:UNK:CB	2.60	0.50
2:E:895:UNK:O	2:E:896:UNK:C	2.59	0.50
2:E:1614:UNK:CB	2:E:1650:UNK:HA	2.41	0.50
1:G:677:TYR:HA	1:G:702:LYS:O	2.10	0.50
1:G:755:THR:HG22	1:G:756:GLU:N	2.25	0.50
1:G:901:MET:O	1:G:904:ASN:N	2.35	0.50
1:G:990:LEU:O	1:G:991:ASP:OD1	2.28	0.50
1:G:1151:LYS:H	1:G:1151:LYS:CD	2.25	0.50
1:G:1156:GLU:HG2	1:G:1169:LYS:C	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1193:TRP:O	1:G:1194:ASN:CB	2.57	0.50
1:G:1246:CYS:HA	1:G:1327:CYS:SG	2.52	0.50
1:G:1378:GLU:HA	1:G:1583:HIS:HA	1.94	0.50
1:G:1474:ALA:HB1	1:G:1761:UNK:CB	2.41	0.50
1:G:1534:ASP:C	1:G:1566:ARG:HH21	2.14	0.50
2:H:193:GLU:O	2:H:196:SER:HB3	2.12	0.50
2:H:928:UNK:O	2:H:929:UNK:C	2.59	0.50
2:H:1681:TYR:C	2:H:1681:TYR:CD2	2.85	0.50
2:H:1850:SER:C	2:H:1852:TYR:H	2.14	0.50
1:A:653:UNK:O	1:A:654:UNK:C	2.60	0.50
1:A:910:THR:HG22	1:A:913:VAL:HG21	1.93	0.50
1:A:1030:TRP:HB2	1:A:1036:ARG:HB3	1.92	0.50
1:A:1040:GLU:O	1:A:1040:GLU:HG3	2.11	0.50
1:A:1076:VAL:HG21	1:A:1087:LYS:CA	2.41	0.50
1:A:1089:VAL:C	1:A:1091:ALA:N	2.65	0.50
1:A:1119:LYS:CE	1:A:1121:MET:HB2	2.37	0.50
1:A:1131:LEU:C	1:A:1133:PRO:HD3	2.31	0.50
1:A:1253:GLY:O	1:A:1254:VAL:C	2.49	0.50
1:A:1426:LEU:CD1	1:A:1427:THR:HG23	2.39	0.50
1:A:1518:ARG:O	1:A:1519:ILE:HB	2.11	0.50
1:A:1741:LYS:HA	1:A:1741:LYS:CE	2.41	0.50
2:B:184:VAL:HG21	2:B:247:ALA:HB1	1.93	0.50
2:B:585:UNK:O	2:B:586:UNK:CB	2.59	0.50
2:B:720:UNK:C	2:B:722:UNK:N	2.74	0.50
2:B:1058:UNK:O	2:B:1059:UNK:C	2.59	0.50
2:B:1738:PHE:HB2	2:B:1755:ILE:CG2	2.41	0.50
2:B:1764:PHE:O	2:B:1765:ARG:CB	2.59	0.50
2:B:1792:LEU:CA	2:B:1797:LEU:HD12	2.41	0.50
2:B:1850:SER:C	2:B:1852:TYR:H	2.14	0.50
1:D:580:UNK:O	1:D:581:UNK:C	2.59	0.50
1:D:684:GLY:HA3	1:D:718:TYR:OH	2.12	0.50
1:D:1080:THR:HB	1:D:1081:LYS:HE2	1.93	0.50
1:D:1109:GLU:O	1:D:1110:LEU:CB	2.59	0.50
1:D:1241:SER:O	1:D:1243:VAL:N	2.39	0.50
1:D:1274:ILE:CG2	1:D:1275:LEU:N	2.74	0.50
1:D:1474:ALA:HB1	1:D:1761:UNK:CB	2.42	0.50
2:E:187:LEU:HD22	2:E:296:VAL:HG11	1.92	0.50
2:E:339:LEU:HB2	2:E:420:PHE:CE1	2.46	0.50
2:E:822:UNK:O	2:E:823:UNK:CB	2.59	0.50
2:E:1729:ILE:CG2	2:E:1730:ARG:H	2.13	0.50
2:E:1819:ALA:O	2:E:1820:ASP:O	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:653:UNK:O	1:G:654:UNK:C	2.60	0.50
1:G:745:VAL:O	1:G:747:ALA:N	2.44	0.50
1:G:821:GLN:HA	1:G:863:THR:HB	1.94	0.50
1:G:904:ASN:HB3	1:G:926:LEU:HD13	1.93	0.50
1:G:1528:THR:O	1:G:1530:GLY:N	2.45	0.50
1:G:1534:ASP:O	1:G:1566:ARG:NE	2.38	0.50
1:G:1571:PRO:O	1:G:1572:VAL:C	2.49	0.50
1:G:1639:VAL:HG23	1:G:1640:SER:N	2.21	0.50
2:H:132:MET:O	2:H:133:ALA:CB	2.60	0.50
2:H:924:UNK:O	2:H:925:UNK:C	2.60	0.50
2:H:1867:SER:C	2:H:1869:GLU:N	2.64	0.50
2:H:1903:ASP:O	2:H:1906:ALA:N	2.44	0.50
1:A:681:THR:HA	1:A:706:THR:HG21	1.93	0.50
1:A:1036:ARG:HE	1:A:1037:TRP:CA	2.24	0.50
1:A:1060:ILE:HD13	1:A:1077:ASP:OD1	2.11	0.50
1:A:1142:GLU:H	1:A:1144:PHE:HE1	1.60	0.50
1:A:1169:LYS:NZ	1:A:1170:GLY:O	2.34	0.50
1:A:1539:ALA:O	1:A:1575:VAL:HG23	2.11	0.50
1:A:1652:GLN:CD	1:A:1653:ALA:N	2.65	0.50
2:B:875:UNK:O	2:B:876:UNK:CB	2.60	0.50
2:B:1047:UNK:C	2:B:1049:UNK:N	2.71	0.50
2:B:2020:UNK:O	2:B:2021:UNK:C	2.59	0.50
1:D:572:UNK:C	1:D:574:UNK:N	2.70	0.50
1:D:1002:LYS:HD2	1:D:1670:TYR:CE1	2.47	0.50
1:D:1030:TRP:CE2	1:D:1580:LEU:HD11	2.45	0.50
1:D:1100:HIS:O	1:D:1103:ILE:N	2.42	0.50
1:D:1142:GLU:H	1:D:1144:PHE:HE1	1.58	0.50
1:D:1146:HIS:O	1:D:1147:GLN:C	2.49	0.50
1:D:1476:GLU:O	1:D:1476:GLU:HG3	2.11	0.50
1:D:1657:HIS:NE2	1:D:1659:ASP:OD2	2.43	0.50
2:E:4:TYR:O	2:E:5:SER:CB	2.60	0.50
2:E:199:ILE:HG12	2:E:200:ARG:N	2.26	0.50
2:E:240:LEU:H	2:E:240:LEU:CD1	2.24	0.50
2:E:264:ARG:HD2	2:E:456:GLN:HG3	1.94	0.50
2:E:813:UNK:C	2:E:815:UNK:N	2.74	0.50
2:E:1490:UNK:O	2:E:1491:UNK:CB	2.58	0.50
1:G:281:UNK:C	1:G:283:UNK:N	2.71	0.50
1:G:580:UNK:O	1:G:582:UNK:N	2.45	0.50
1:G:829:ASN:HB3	1:G:832:THR:CB	2.42	0.50
1:G:1041:ALA:HB1	1:G:1042:PHE:CD1	2.46	0.50
1:G:1207:GLN:NE2	1:G:1207:GLN:CA	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1239:HIS:O	1:G:1241:SER:N	2.41	0.50
1:G:1403:ILE:HG23	1:G:1656:VAL:CG1	2.27	0.50
1:G:1418:VAL:HA	1:G:1419:PRO:C	2.29	0.50
1:G:1455:ARG:NH2	1:G:1458:GLN:HB2	2.23	0.50
1:G:1476:GLU:C	1:G:1478:PRO:HD2	2.32	0.50
1:G:1539:ALA:CB	1:G:1640:SER:O	2.60	0.50
2:H:321:PRO:O	2:H:323:ILE:N	2.45	0.50
2:H:1041:UNK:O	2:H:1042:UNK:C	2.59	0.50
2:H:1415:UNK:O	2:H:1416:UNK:CB	2.59	0.50
2:H:1706:ILE:O	2:H:1707:LEU:C	2.49	0.50
1:A:377:UNK:O	1:A:380:UNK:CB	2.60	0.50
1:A:426:UNK:O	1:A:430:UNK:CB	2.60	0.50
1:A:527:UNK:C	1:A:529:UNK:N	2.75	0.50
1:A:749:ILE:HD11	1:A:802:MET:HE2	1.93	0.50
1:A:864:VAL:CG1	1:A:865:CYS:H	2.25	0.50
1:A:1065:GLY:C	1:A:1067:LEU:N	2.63	0.50
1:A:1216:LEU:HD13	1:A:1698:PHE:CE1	2.47	0.50
1:A:1320:LEU:O	1:A:1321:SER:C	2.49	0.50
2:B:13:His:C	2:B:15:SER:N	2.64	0.50
2:B:149:VAL:HG21	2:B:156:LEU:HB2	1.94	0.50
2:B:408:PRO:HG2	2:B:409:PHE:N	2.25	0.50
2:B:460:TYR:CD2	2:B:465:GLY:HA3	2.47	0.50
2:B:540:ASP:HB2	2:B:544:LYS:HZ2	1.77	0.50
2:B:1342:UNK:C	2:B:1344:UNK:N	2.74	0.50
3:C:24:UNK:C	3:C:26:UNK:N	2.74	0.50
1:D:780:GLU:O	1:D:781:LEU:C	2.50	0.50
1:D:869:ILE:CG2	1:D:926:LEU:HB2	2.37	0.50
1:D:893:VAL:O	1:D:895:THR:N	2.36	0.50
1:D:1055:TRP:CH2	1:D:1198:TYR:CD1	2.97	0.50
1:D:1118:LYS:O	1:D:1118:LYS:HG3	2.12	0.50
1:D:1152:VAL:C	1:D:1154:ILE:N	2.60	0.50
1:D:1197:THR:HG23	1:D:1197:THR:O	2.11	0.50
1:D:1204:ILE:O	1:D:1208:VAL:HG22	2.12	0.50
1:D:1223:PHE:CE1	1:D:1231:PRO:HB3	2.47	0.50
1:D:1455:ARG:CG	1:D:1504:ALA:HB2	2.39	0.50
1:D:1652:GLN:CD	1:D:1653:ALA:H	2.15	0.50
2:E:197:GLU:C	2:E:199:ILE:N	2.64	0.50
2:E:1379:UNK:CA	2:E:1426:UNK:HA	2.39	0.50
2:E:1742:VAL:HG21	2:E:1840:VAL:HG22	1.94	0.50
2:E:1989:UNK:C	2:E:1991:UNK:N	2.74	0.50
1:G:389:UNK:C	1:G:391:UNK:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:647:UNK:O	1:G:648:UNK:O	2.30	0.50
1:G:905:LEU:O	1:G:908:LEU:HB3	2.11	0.50
1:G:1275:LEU:C	1:G:1275:LEU:HD13	2.32	0.50
1:G:1302:VAL:O	1:G:1307:THR:CB	2.57	0.50
1:G:1638:ALA:O	1:G:1639:VAL:HG13	2.12	0.50
1:G:1735:SER:C	1:G:1737:ASN:H	2.13	0.50
2:H:41:LEU:HD13	2:H:46:GLU:HA	1.94	0.50
2:H:267:LEU:O	2:H:268:LYS:CB	2.60	0.50
2:H:578:UNK:O	2:H:580:UNK:N	2.45	0.50
2:H:668:UNK:O	2:H:669:UNK:CB	2.59	0.50
2:H:1058:UNK:O	2:H:1059:UNK:C	2.59	0.50
2:H:1416:UNK:HA	2:H:1419:UNK:CB	2.42	0.50
2:H:1542:UNK:O	2:H:1543:UNK:CB	2.59	0.50
2:H:1819:ALA:O	2:H:1820:ASP:O	2.29	0.50
2:H:1830:VAL:HG13	2:H:1831:VAL:H	1.76	0.50
2:H:1924:ILE:HG22	2:H:1925:ILE:N	2.25	0.50
1:A:854:HIS:O	1:A:855:SER:CB	2.59	0.50
1:A:1139:GLU:HG2	1:A:1140:THR:H	1.76	0.50
1:A:1219:VAL:HG23	1:A:1328:ILE:CD1	2.42	0.50
1:A:1291:LEU:N	1:A:1291:LEU:CD1	2.75	0.50
1:A:1474:ALA:HB1	1:A:1761:UNK:CB	2.42	0.50
2:B:67:TYR:O	2:B:69:SER:N	2.45	0.50
2:B:173:LEU:HD23	2:B:173:LEU:C	2.32	0.50
2:B:182:VAL:HG12	2:B:183:LEU:HD23	1.93	0.50
2:B:338:MET:N	2:B:386:LEU:CD1	2.75	0.50
2:B:367:GLU:OE1	2:B:428:HIS:O	2.30	0.50
2:B:475:ILE:C	2:B:477:GLU:H	2.15	0.50
2:B:919:UNK:O	2:B:922:UNK:N	2.45	0.50
2:B:974:UNK:C	2:B:976:UNK:N	2.75	0.50
2:B:1295:UNK:O	2:B:1299:UNK:N	2.45	0.50
2:B:1378:UNK:O	2:B:1379:UNK:CB	2.60	0.50
2:B:1770:LEU:O	2:B:1772:SER:N	2.37	0.50
1:D:1403:ILE:O	1:D:1655:VAL:HG22	2.11	0.50
1:D:1495:ASN:O	1:D:1496:GLU:C	2.50	0.50
2:E:49:ALA:H	2:E:118:LYS:HZ1	1.58	0.50
2:E:91:PHE:CE2	2:E:101:ILE:HD11	2.46	0.50
2:E:217:GLU:O	2:E:219:LEU:N	2.45	0.50
2:E:1137:UNK:O	2:E:1139:UNK:N	2.45	0.50
2:E:1924:ILE:HG22	2:E:1925:ILE:N	2.22	0.50
1:G:398:UNK:O	1:G:400:UNK:N	2.45	0.50
1:G:565:UNK:C	1:G:567:UNK:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:684:GLY:HA3	1:G:718:TYR:OH	2.12	0.50
1:G:804:GLY:O	1:G:807:LYS:HB3	2.11	0.50
1:G:809:GLN:O	1:G:812:ALA:HB3	2.12	0.50
1:G:910:THR:HG22	1:G:913:VAL:HG21	1.93	0.50
1:G:953:VAL:O	1:G:956:ALA:HB3	2.12	0.50
1:G:1100:HIS:O	1:G:1103:ILE:HB	2.11	0.50
1:G:1130:ASP:HB2	1:G:1174:TYR:N	2.21	0.50
1:G:1146:HIS:C	1:G:1148:HIS:N	2.63	0.50
1:G:1189:ILE:HG23	1:G:1377:MET:CE	2.42	0.50
1:G:1308:SER:HB2	1:G:1590:ALA:CB	2.41	0.50
1:G:1519:ILE:HG12	1:G:1521:PRO:HD2	1.93	0.50
1:G:1615:ASP:C	1:G:1615:ASP:OD1	2.51	0.50
1:G:1640:SER:H	1:G:1654:ILE:HG13	1.76	0.50
1:G:1741:LYS:HZ1	1:G:1744:TYR:HD2	1.60	0.50
2:H:131:ILE:O	2:H:131:ILE:HG12	2.11	0.50
2:H:159:ILE:HG22	2:H:160:PHE:N	2.27	0.50
2:H:261:GLY:HA2	2:H:264:ARG:NE	2.27	0.50
2:H:504:PHE:N	2:H:504:PHE:CD2	2.79	0.50
2:H:1709:ILE:HG22	2:H:1771:LEU:CD1	2.38	0.50
2:H:1737:ILE:HG23	2:H:1755:ILE:HG21	1.92	0.50
2:H:1782:THR:HG21	2:H:1831:VAL:HG21	1.94	0.50
1:A:865:CYS:O	1:A:866:GLY:O	2.29	0.49
1:A:990:LEU:O	1:A:991:ASP:OD1	2.30	0.49
1:A:1074:GLY:C	1:A:1075:TRP:CD1	2.85	0.49
1:A:1264:ARG:NH2	1:A:1270:VAL:HB	2.27	0.49
1:A:1292:ILE:HG13	1:A:1294:SER:HB2	1.94	0.49
1:A:1335:PHE:HE1	1:A:1340:SER:CB	2.08	0.49
1:A:1497:ALA:O	1:A:1498:GLU:C	2.51	0.49
1:A:1502:ARG:HD3	1:A:1505:GLN:NE2	2.27	0.49
1:A:1642:THR:N	1:A:1652:GLN:OE1	2.45	0.49
1:A:1701:LYS:O	1:A:1702:GLU:O	2.30	0.49
2:B:4:TYR:O	2:B:5:SER:CB	2.60	0.49
2:B:703:UNK:C	2:B:705:UNK:N	2.71	0.49
2:B:915:UNK:O	2:B:916:UNK:C	2.59	0.49
2:B:1449:UNK:O	2:B:1450:UNK:C	2.60	0.49
1:D:808:LYS:HE3	1:D:808:LYS:CA	2.29	0.49
1:D:952:GLU:O	1:D:956:ALA:HB2	2.12	0.49
1:D:1119:LYS:O	1:D:1120:GLU:HB2	2.11	0.49
1:D:1189:ILE:CG2	1:D:1190:PRO:CD	2.74	0.49
1:D:1316:VAL:HG13	1:D:1317:GLU:OE2	2.12	0.49
1:D:1353:LEU:HA	1:D:1356:PHE:CB	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1390:ALA:O	1:D:1393:ALA:HB3	2.11	0.49
1:D:1426:LEU:HD13	1:D:1650:GLY:HA3	1.94	0.49
1:D:1449:LYS:O	1:D:1453:VAL:HG23	2.11	0.49
1:D:1599:ILE:HG13	1:D:1600:LEU:HD13	1.94	0.49
2:E:843:UNK:O	2:E:845:UNK:N	2.45	0.49
2:E:1268:UNK:C	2:E:1270:UNK:N	2.69	0.49
2:E:1482:UNK:O	2:E:1483:UNK:CB	2.60	0.49
2:E:1718:THR:HG23	2:E:1765:ARG:CA	2.41	0.49
2:E:1778:GLN:OE1	2:E:1809:LEU:HD13	2.12	0.49
1:G:662:UNK:O	1:G:663:UNK:C	2.60	0.49
1:G:1036:ARG:HH21	1:G:1040:GLU:CB	2.25	0.49
1:G:1161:GLY:H	1:G:1166:LYS:HA	1.77	0.49
1:G:1194:ASN:O	1:G:1195:ALA:CB	2.60	0.49
1:G:1226:SER:O	1:G:1227:GLY:C	2.48	0.49
1:G:1339:GLY:O	1:G:1340:SER:C	2.50	0.49
1:G:1353:LEU:CA	1:G:1356:PHE:CB	2.90	0.49
1:G:1455:ARG:CG	1:G:1504:ALA:HB2	2.40	0.49
1:G:1536:LEU:H	1:G:1536:LEU:CD1	2.11	0.49
1:G:1700:SER:HA	1:G:1701:LYS:CE	2.42	0.49
2:H:309:ARG:CG	2:H:439:ILE:HG22	2.40	0.49
2:H:475:ILE:C	2:H:477:GLU:H	2.16	0.49
2:H:1047:UNK:C	2:H:1049:UNK:N	2.71	0.49
2:H:1342:UNK:C	2:H:1344:UNK:N	2.74	0.49
2:H:1715:VAL:CG2	2:H:1770:LEU:N	2.75	0.49
2:H:1785:GLU:HG2	3:I:20:UNK:O	2.11	0.49
1:A:278:UNK:O	1:A:279:UNK:CB	2.60	0.49
1:A:655:UNK:O	1:A:657:UNK:N	2.45	0.49
1:A:1156:GLU:CG	1:A:1169:LYS:HA	2.42	0.49
1:A:1306:ALA:HB2	1:A:1645:GLY:N	2.27	0.49
1:A:1316:VAL:HG13	1:A:1317:GLU:OE2	2.11	0.49
1:A:1418:VAL:CA	1:A:1419:PRO:O	2.58	0.49
1:A:1487:LEU:HA	1:A:1490:THR:CG2	2.42	0.49
1:A:1668:ASP:O	1:A:1670:TYR:N	2.35	0.49
2:B:14:GLY:HA3	2:B:18:HIS:CG	2.48	0.49
2:B:241:ILE:HG21	2:B:275:GLN:HG2	1.93	0.49
2:B:248:HIS:CG	2:B:529:VAL:HG11	2.47	0.49
2:B:292:PHE:O	2:B:296:VAL:HG23	2.12	0.49
2:B:876:UNK:O	2:B:877:UNK:CB	2.60	0.49
2:B:1058:UNK:O	2:B:1061:UNK:N	2.46	0.49
2:B:1672:GLN:HB2	2:B:1676:MET:HE1	1.94	0.49
2:B:1888:ILE:HA	2:B:1891:TYR:CZ	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:64:UNK:O	3:C:65:UNK:O	2.30	0.49
1:D:653:UNK:O	1:D:654:UNK:C	2.59	0.49
1:D:1067:LEU:CG	1:D:1073:THR:HG23	2.26	0.49
1:D:1076:VAL:HG21	1:D:1087:LYS:CA	2.42	0.49
1:D:1139:GLU:HG2	1:D:1140:THR:H	1.76	0.49
1:D:1198:TYR:CE2	1:D:1217:VAL:HG11	2.47	0.49
1:D:1240:VAL:CG1	1:D:1242:GLU:HB3	2.43	0.49
1:D:1532:THR:OG1	1:D:1535:ASP:HB3	2.11	0.49
2:E:309:ARG:CG	2:E:439:ILE:HG22	2.40	0.49
2:E:460:TYR:CD2	2:E:465:GLY:HA3	2.47	0.49
2:E:1058:UNK:O	2:E:1061:UNK:N	2.45	0.49
2:E:1709:ILE:CD1	2:E:1719:ILE:HD11	2.32	0.49
2:E:1774:THR:O	2:E:1774:THR:HG22	2.11	0.49
2:E:1879:GLY:O	2:E:1880:LYS:HB3	2.12	0.49
1:G:197:UNK:O	1:G:198:UNK:C	2.60	0.49
1:G:1051:VAL:O	1:G:1055:TRP:N	2.45	0.49
1:G:1062:TYR:HB2	1:G:1077:ASP:HA	1.94	0.49
1:G:1080:THR:HB	1:G:1081:LYS:HE2	1.94	0.49
1:G:1099:GLU:C	1:G:1102:GLY:H	2.12	0.49
1:G:1131:LEU:C	1:G:1133:PRO:HD3	2.32	0.49
1:G:1254:VAL:C	1:G:1256:ALA:N	2.48	0.49
1:G:1288:ASN:C	1:G:1290:LEU:N	2.65	0.49
1:G:1486:LEU:HD12	1:G:1754:UNK:O	2.12	0.49
1:G:1599:ILE:HG13	1:G:1600:LEU:HD13	1.93	0.49
2:H:199:ILE:HG12	2:H:200:ARG:N	2.27	0.49
2:H:919:UNK:O	2:H:922:UNK:N	2.45	0.49
2:H:1418:UNK:O	2:H:1420:UNK:N	2.45	0.49
2:H:1458:UNK:O	2:H:1459:UNK:C	2.60	0.49
2:H:1972:UNK:O	2:H:1973:UNK:C	2.60	0.49
1:A:1022:THR:O	1:A:1401:TYR:CE2	2.64	0.49
1:A:1118:LYS:HE2	1:A:1337:GLU:CA	2.37	0.49
1:A:1203:ASP:C	1:A:1205:ILE:H	2.13	0.49
1:A:1246:CYS:N	1:A:1328:ILE:CG2	2.74	0.49
1:A:1274:ILE:CG2	1:A:1275:LEU:N	2.76	0.49
1:A:1425:ILE:O	1:A:1426:LEU:HB3	2.12	0.49
1:A:1625:LEU:HD21	1:A:1626:TYR:CD1	2.48	0.49
2:B:264:ARG:HD2	2:B:456:GLN:HG3	1.93	0.49
2:B:323:ILE:O	2:B:324:LEU:C	2.51	0.49
2:B:1707:LEU:O	2:B:1708:ASP:C	2.50	0.49
1:D:1036:ARG:HE	1:D:1037:TRP:CA	2.25	0.49
1:D:1200:ILE:HD12	1:D:1698:PHE:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1216:LEU:HD13	1:D:1698:PHE:CE1	2.48	0.49
1:D:1254:VAL:CG1	1:D:1255:SER:N	2.65	0.49
1:D:1476:GLU:C	1:D:1478:PRO:HD2	2.33	0.49
2:E:617:UNK:CB	2:E:649:UNK:HA	2.41	0.49
2:E:1413:UNK:C	2:E:1415:UNK:N	2.71	0.49
2:E:1738:PHE:HB2	2:E:1755:ILE:CG2	2.42	0.49
2:E:1877:ARG:HB3	2:E:1929:LYS:HZ2	1.74	0.49
2:E:1904:LEU:O	2:E:1907:LEU:HG	2.12	0.49
1:G:689:GLY:HA2	1:G:692:VAL:CG2	2.42	0.49
1:G:865:CYS:O	1:G:866:GLY:O	2.29	0.49
1:G:1074:GLY:C	1:G:1075:TRP:CD1	2.86	0.49
1:G:1200:ILE:HG13	1:G:1201:SER:N	2.27	0.49
1:G:1266:LYS:O	1:G:1267:ASP:C	2.50	0.49
1:G:1274:ILE:O	1:G:1276:GLN:N	2.45	0.49
2:H:4:TYR:O	2:H:5:SER:CB	2.61	0.49
2:H:197:GLU:C	2:H:199:ILE:N	2.66	0.49
2:H:753:UNK:O	2:H:754:UNK:C	2.59	0.49
2:H:1490:UNK:O	2:H:1491:UNK:CB	2.60	0.49
2:H:1573:UNK:C	2:H:1575:UNK:N	2.73	0.49
1:A:386:UNK:C	1:A:388:UNK:N	2.70	0.49
1:A:1062:TYR:CD1	1:A:1063:HIS:N	2.64	0.49
1:A:1146:HIS:O	1:A:1147:GLN:C	2.50	0.49
1:A:1204:ILE:O	1:A:1208:VAL:HG22	2.12	0.49
1:A:1241:SER:C	1:A:1243:VAL:N	2.64	0.49
1:A:1453:VAL:O	1:A:1455:ARG:O	2.31	0.49
1:A:1486:LEU:HD12	1:A:1754:UNK:O	2.13	0.49
1:A:1493:ILE:O	1:A:1496:GLU:HB2	2.12	0.49
1:A:1495:ASN:O	1:A:1496:GLU:C	2.50	0.49
1:A:1519:ILE:HD11	1:A:1521:PRO:HD2	1.93	0.49
1:A:1536:LEU:CA	1:A:1638:ALA:HB3	2.40	0.49
1:A:1605:ILE:N	1:A:1605:ILE:HD13	2.27	0.49
2:B:4:TYR:O	2:B:5:SER:HB3	2.12	0.49
2:B:272:GLY:HA3	2:B:277:LEU:HA	1.95	0.49
2:B:281:VAL:HG12	2:B:282:ALA:N	2.27	0.49
2:B:1786:LYS:O	2:B:1787:ALA:C	2.49	0.49
2:B:1860:GLY:O	2:B:1861:ARG:HB2	2.13	0.49
2:B:2022:UNK:C	2:B:2024:UNK:N	2.60	0.49
1:D:197:UNK:O	1:D:198:UNK:C	2.60	0.49
1:D:737:PHE:CD1	1:D:748:LEU:HD22	2.48	0.49
1:D:829:ASN:HB3	1:D:832:THR:CB	2.42	0.49
1:D:1131:LEU:C	1:D:1133:PRO:HD3	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1299:LYS:NZ	1:D:1323:LYS:HZ1	2.10	0.49
1:D:1307:THR:O	1:D:1308:SER:OG	2.30	0.49
1:D:1343:PHE:C	1:D:1345:ASN:N	2.66	0.49
1:D:1453:VAL:O	1:D:1455:ARG:O	2.30	0.49
1:D:1541:PHE:CE2	1:D:1554:SER:OG	2.61	0.49
1:D:1597:LEU:HD23	1:D:1597:LEU:H	1.78	0.49
2:E:193:GLU:O	2:E:196:SER:HB3	2.12	0.49
2:E:504:PHE:N	2:E:504:PHE:CD2	2.80	0.49
2:E:1415:UNK:O	2:E:1416:UNK:CB	2.59	0.49
2:E:1981:UNK:O	2:E:1982:UNK:CB	2.61	0.49
1:G:710:PHE:HE1	1:G:736:PRO:CD	2.17	0.49
1:G:719:GLN:HG3	1:G:720:SER:H	1.77	0.49
1:G:829:ASN:HB3	1:G:832:THR:HG21	1.94	0.49
1:G:874:GLY:HA3	1:G:899:LYS:HD2	1.93	0.49
1:G:1157:ILE:HG22	1:G:1158:PRO:CD	2.22	0.49
1:G:1290:LEU:O	1:G:1291:LEU:HB2	2.10	0.49
1:G:1328:ILE:O	1:G:1328:ILE:CG1	2.59	0.49
1:G:1522:LEU:HB3	1:G:1526:LEU:CD2	2.42	0.49
1:G:1646:PHE:C	1:G:1648:GLN:N	2.65	0.49
2:H:49:ALA:H	2:H:118:LYS:NZ	2.08	0.49
2:H:56:THR:O	2:H:59:GLU:CG	2.61	0.49
2:H:87:CYS:C	2:H:90:GLU:HB3	2.32	0.49
2:H:183:LEU:O	2:H:184:VAL:HB	2.10	0.49
2:H:1211:UNK:O	2:H:1212:UNK:CB	2.59	0.49
2:H:1449:UNK:O	2:H:1450:UNK:C	2.60	0.49
2:H:1673:GLU:O	2:H:1674:GLN:C	2.51	0.49
2:H:1680:LEU:O	2:H:1681:TYR:C	2.50	0.49
2:H:1723:GLY:O	2:H:1724:GLU:C	2.51	0.49
2:H:1883:GLY:HA2	2:H:1894:GLU:CG	2.42	0.49
1:A:864:VAL:O	1:A:865:CYS:HB2	2.12	0.49
1:A:882:ASN:O	1:A:883:ILE:HG13	2.13	0.49
1:A:884:ILE:HG22	1:A:887:GLY:CA	2.41	0.49
1:A:1224:ILE:HD13	1:A:1687:PHE:CD2	2.47	0.49
1:A:1239:HIS:C	1:A:1241:SER:N	2.58	0.49
1:A:1456:GLU:N	1:A:1459:ILE:HG12	2.22	0.49
1:A:1599:ILE:HD11	1:A:1639:VAL:CG1	2.41	0.49
1:A:1625:LEU:HD13	1:A:1626:TYR:N	2.28	0.49
1:A:1659:ASP:CA	1:A:1662:TYR:HD2	2.21	0.49
1:A:1704:ALA:CB	1:A:1705:PRO:HD2	2.27	0.49
1:A:1872:UNK:HA	1:A:1881:UNK:CB	2.43	0.49
2:B:53:GLU:HG2	2:B:55:THR:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:57:PRO:O	2:B:59:GLU:N	2.45	0.49
2:B:248:HIS:HE1	2:B:530:ALA:HB2	1.77	0.49
2:B:303:LEU:HA	2:B:306:ILE:CD1	2.42	0.49
2:B:1883:GLY:HA2	2:B:1894:GLU:CG	2.43	0.49
1:D:937:LYS:O	1:D:940:THR:N	2.46	0.49
1:D:1079:LYS:O	1:D:1083:PRO:HD2	2.11	0.49
1:D:1239:HIS:O	1:D:1241:SER:N	2.42	0.49
1:D:1248:GLY:HA2	1:D:1330:GLY:HA3	1.95	0.49
2:E:239:PRO:HG2	2:E:240:LEU:H	1.76	0.49
2:E:379:VAL:HG12	2:E:380:SER:N	2.28	0.49
2:E:402:LEU:HD13	2:E:405:SER:OG	2.12	0.49
2:E:443:LEU:HB3	2:E:449:SER:HB3	1.94	0.49
2:E:1041:UNK:O	2:E:1042:UNK:C	2.60	0.49
2:E:1449:UNK:O	2:E:1450:UNK:C	2.61	0.49
1:G:864:VAL:CG1	1:G:865:CYS:N	2.75	0.49
1:G:1002:LYS:HD2	1:G:1670:TYR:CE1	2.47	0.49
1:G:1076:VAL:HG21	1:G:1087:LYS:CA	2.42	0.49
1:G:1141:ALA:HA	1:G:1144:PHE:HE1	1.74	0.49
1:G:1536:LEU:HB3	1:G:1638:ALA:CB	2.40	0.49
1:G:1596:ALA:O	1:G:1597:LEU:C	2.50	0.49
1:G:1599:ILE:HD11	1:G:1639:VAL:CG1	2.41	0.49
2:H:53:GLU:HG2	2:H:55:THR:H	1.77	0.49
2:H:264:ARG:HD2	2:H:456:GLN:HG3	1.94	0.49
2:H:265:SER:O	2:H:266:TYR:C	2.51	0.49
2:H:653:UNK:O	2:H:654:UNK:C	2.59	0.49
2:H:1196:UNK:O	2:H:1197:UNK:O	2.31	0.49
2:H:1361:UNK:O	2:H:1362:UNK:CB	2.59	0.49
1:A:737:PHE:CZ	1:A:739:GLN:HA	2.47	0.49
1:A:826:MET:HB2	1:A:868:ILE:CA	2.37	0.49
1:A:869:ILE:CG2	1:A:901:MET:SD	2.99	0.49
1:A:904:ASN:HB3	1:A:926:LEU:HD13	1.94	0.49
1:A:953:VAL:O	1:A:956:ALA:HB3	2.11	0.49
1:A:1002:LYS:HD2	1:A:1670:TYR:CE1	2.48	0.49
1:A:1193:TRP:CZ2	1:A:1380:GLN:CB	2.86	0.49
1:A:1240:VAL:HG13	1:A:1242:GLU:HB2	1.92	0.49
1:A:1476:GLU:O	1:A:1476:GLU:HG3	2.12	0.49
2:B:253:ALA:O	2:B:254:LYS:C	2.51	0.49
2:B:1051:UNK:O	2:B:1053:UNK:N	2.45	0.49
2:B:1341:UNK:O	2:B:1342:UNK:CB	2.59	0.49
1:D:278:UNK:O	1:D:279:UNK:CB	2.60	0.49
1:D:521:UNK:O	1:D:522:UNK:C	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:747:ALA:O	1:D:751:PHE:N	2.39	0.49
1:D:1036:ARG:O	1:D:1040:GLU:N	2.32	0.49
1:D:1051:VAL:O	1:D:1055:TRP:N	2.45	0.49
1:D:1074:GLY:C	1:D:1075:TRP:CD1	2.86	0.49
1:D:1097:ILE:O	1:D:1098:LEU:HD13	2.11	0.49
1:D:1151:LYS:H	1:D:1151:LYS:CD	2.24	0.49
1:D:1260:MET:SD	1:D:1275:LEU:HD23	2.52	0.49
1:D:1290:LEU:HB3	1:D:1291:LEU:HD13	1.93	0.49
1:D:1378:GLU:HA	1:D:1583:HIS:HA	1.95	0.49
1:D:1522:LEU:HB3	1:D:1526:LEU:CD2	2.43	0.49
2:E:27:PHE:O	2:E:30:ALA:HB3	2.13	0.49
2:E:240:LEU:HA	2:E:243:VAL:HG21	1.93	0.49
2:E:321:PRO:O	2:E:323:ILE:N	2.46	0.49
2:E:345:THR:O	2:E:349:VAL:HG23	2.13	0.49
2:E:1706:ILE:CD1	2:E:1783:LEU:HD12	2.43	0.49
1:G:563:UNK:O	1:G:565:UNK:N	2.46	0.49
1:G:792:HIS:CE1	1:G:796:LEU:CD2	2.95	0.49
1:G:1209:ASP:O	1:G:1210:PRO:O	2.30	0.49
1:G:1248:GLY:O	1:G:1300:THR:HG23	2.11	0.49
1:G:1493:ILE:O	1:G:1496:GLU:HB2	2.12	0.49
1:G:1710:LEU:O	1:G:1711:GLU:C	2.51	0.49
2:H:217:GLU:O	2:H:219:LEU:N	2.46	0.49
2:H:915:UNK:O	2:H:916:UNK:C	2.61	0.49
1:A:243:UNK:CB	1:D:1138:LYS:NZ	2.76	0.49
1:A:446:UNK:CB	1:A:1619:GLU:OE2	2.61	0.49
1:A:780:GLU:O	1:A:781:LEU:C	2.50	0.49
1:A:1118:LYS:O	1:A:1118:LYS:CG	2.61	0.49
1:A:1186:ALA:HB1	1:A:1349:THR:HG21	1.93	0.49
1:A:1244:GLY:O	1:A:1327:CYS:HA	2.13	0.49
1:A:1396:MET:O	1:A:1397:GLY:O	2.30	0.49
1:A:1522:LEU:HB3	1:A:1526:LEU:CD2	2.43	0.49
1:A:1562:LYS:NZ	1:A:1621:PHE:HZ	2.10	0.49
1:A:1614:VAL:O	1:A:1614:VAL:HG12	2.12	0.49
1:A:1665:ILE:O	1:A:1666:THR:HB	2.12	0.49
1:A:1710:LEU:O	1:A:1711:GLU:C	2.50	0.49
2:B:46:GLU:O	2:B:47:GLY:C	2.51	0.49
2:B:214:ASN:C	2:B:216:LEU:N	2.65	0.49
2:B:241:ILE:HA	2:B:244:ILE:HD12	1.93	0.49
2:B:244:ILE:HG22	2:B:248:HIS:CD2	2.47	0.49
2:B:321:PRO:C	2:B:323:ILE:N	2.63	0.49
2:B:368:ILE:HG23	2:B:368:ILE:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:869:UNK:C	2:B:871:UNK:N	2.73	0.49
2:B:1014:UNK:O	2:B:1016:UNK:N	2.45	0.49
2:B:1681:TYR:C	2:B:1681:TYR:CD2	2.86	0.49
2:B:1924:ILE:HG22	2:B:1925:ILE:N	2.20	0.49
1:D:458:UNK:HA	1:D:1631:LEU:HD21	1.95	0.49
1:D:953:VAL:O	1:D:956:ALA:HB3	2.13	0.49
1:D:1274:ILE:HG23	1:D:1275:LEU:N	2.27	0.49
1:D:1353:LEU:CA	1:D:1356:PHE:CB	2.89	0.49
1:D:1578:LYS:HE3	1:D:1584:PRO:CB	2.41	0.49
1:D:1625:LEU:HD21	1:D:1626:TYR:CD1	2.48	0.49
1:D:1722:VAL:HA	1:D:1731:LEU:HA	1.94	0.49
1:D:1782:UNK:C	1:D:1784:UNK:N	2.71	0.49
2:E:57:PRO:O	2:E:59:GLU:N	2.45	0.49
2:E:281:VAL:HG12	2:E:282:ALA:N	2.27	0.49
2:E:540:ASP:HB2	2:E:544:LYS:HZ2	1.78	0.49
2:E:703:UNK:C	2:E:705:UNK:N	2.72	0.49
2:E:1336:UNK:O	2:E:1340:UNK:CB	2.61	0.49
2:E:1534:UNK:HA	2:E:1630:UNK:O	2.13	0.49
2:E:1857:ILE:HG12	2:E:1949:UNK:CB	2.42	0.49
1:G:396:UNK:O	1:G:398:UNK:N	2.46	0.49
1:G:407:UNK:C	1:G:409:UNK:N	2.75	0.49
1:G:998:TYR:CD1	1:G:999:LYS:HG2	2.48	0.49
1:G:1067:LEU:CD2	1:G:1074:GLY:H	2.26	0.49
1:G:1094:GLU:O	1:G:1095:THR:C	2.51	0.49
1:G:1216:LEU:HD11	1:G:1290:LEU:CD2	2.43	0.49
1:G:1246:CYS:N	1:G:1328:ILE:CG2	2.75	0.49
1:G:1291:LEU:N	1:G:1291:LEU:CD1	2.75	0.49
1:G:1497:ALA:O	1:G:1498:GLU:C	2.50	0.49
1:G:1646:PHE:C	1:G:1648:GLN:H	2.15	0.49
2:H:56:THR:O	2:H:59:GLU:HG2	2.12	0.49
2:H:186:ASP:O	2:H:187:LEU:C	2.51	0.49
2:H:240:LEU:HA	2:H:243:VAL:HG21	1.94	0.49
2:H:1737:ILE:O	2:H:1738:PHE:CB	2.59	0.49
2:H:1756:ASN:O	2:H:1757:GLU:C	2.51	0.49
1:A:807:LYS:HG2	1:A:861:GLN:HG3	1.94	0.49
1:A:873:ARG:HG3	1:A:874:GLY:N	2.27	0.49
1:A:1141:ALA:HA	1:A:1144:PHE:HE1	1.73	0.49
1:A:1264:ARG:O	1:A:1265:PHE:C	2.49	0.49
1:A:1384:ILE:C	1:A:1385:GLN:HG3	2.33	0.49
1:A:1528:THR:O	1:A:1530:GLY:N	2.45	0.49
1:A:1538:VAL:O	1:A:1539:ALA:CB	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1562:LYS:CE	1:A:1621:PHE:HZ	2.25	0.49
2:B:261:GLY:HA2	2:B:264:ARG:CD	2.43	0.49
2:B:306:ILE:O	2:B:310:CYS:SG	2.71	0.49
2:B:972:UNK:C	2:B:974:UNK:N	2.72	0.49
2:B:1458:UNK:O	2:B:1459:UNK:C	2.60	0.49
2:B:1476:UNK:HA	2:B:1486:UNK:CB	2.43	0.49
2:B:1817:SER:O	2:B:1818:LEU:C	2.51	0.49
1:D:632:UNK:CB	1:D:894:ARG:NH1	2.75	0.49
1:D:1292:ILE:HG13	1:D:1294:SER:HB2	1.95	0.49
1:D:1642:THR:N	1:D:1652:GLN:OE1	2.45	0.49
1:D:1710:LEU:O	1:D:1711:GLU:C	2.51	0.49
2:E:53:GLU:HG2	2:E:55:THR:H	1.77	0.49
2:E:303:LEU:HA	2:E:306:ILE:CD1	2.42	0.49
2:E:429:SER:HB2	2:E:431:LEU:HD23	1.93	0.49
2:E:517:HIS:O	2:E:518:ARG:C	2.51	0.49
2:E:1817:SER:O	2:E:1818:LEU:C	2.51	0.49
1:G:169:UNK:O	1:G:170:UNK:CB	2.61	0.49
1:G:589:UNK:O	1:G:591:UNK:N	2.45	0.49
1:G:884:ILE:HG22	1:G:887:GLY:CA	2.43	0.49
1:G:1118:LYS:O	1:G:1118:LYS:HG3	2.13	0.49
1:G:1253:GLY:O	1:G:1254:VAL:C	2.51	0.49
1:G:1290:LEU:HA	1:G:1701:LYS:HD2	1.94	0.49
1:G:1641:ILE:O	1:G:1642:THR:CB	2.60	0.49
2:H:182:VAL:HG12	2:H:183:LEU:HD23	1.95	0.49
2:H:330:ASN:O	2:H:330:ASN:ND2	2.46	0.49
2:H:2033:UNK:C	2:H:2035:UNK:N	2.72	0.49
1:A:1061:SER:O	1:A:1062:TYR:O	2.31	0.49
1:A:1080:THR:HB	1:A:1081:LYS:HE2	1.95	0.49
1:A:1097:ILE:O	1:A:1098:LEU:HD13	2.13	0.49
1:A:1173:LEU:O	1:A:1174:TYR:CB	2.61	0.49
1:A:1438:TYR:O	1:A:1440:SER:N	2.45	0.49
1:A:1604:ILE:HG23	1:A:1630:THR:HA	1.95	0.49
1:A:1636:VAL:O	1:A:1637:ARG:CB	2.61	0.49
1:A:1639:VAL:HG21	1:A:1655:VAL:HG12	1.94	0.49
2:B:119:THR:O	2:B:122:LEU:HB3	2.13	0.49
2:B:162:GLY:C	2:B:164:GLY:N	2.65	0.49
2:B:242:GLY:HA2	2:B:245:GLN:NE2	2.17	0.49
2:B:1248:UNK:O	2:B:1250:UNK:N	2.46	0.49
3:C:60:UNK:O	3:C:61:UNK:C	2.61	0.49
1:D:821:GLN:HA	1:D:863:THR:HB	1.94	0.49
1:D:1127:VAL:HG23	1:D:1180:ARG:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1320:LEU:CG	1:D:1321:SER:N	2.74	0.49
1:D:1373:ARG:CG	1:D:1547:LYS:HD3	2.10	0.49
1:D:1626:TYR:HB2	1:D:1627:PRO:HD2	1.95	0.49
1:D:1636:VAL:O	1:D:1637:ARG:CB	2.60	0.49
1:D:1734:ASN:HA	1:D:1737:ASN:O	2.13	0.49
2:E:4:TYR:HD1	2:E:5:SER:H	1.60	0.49
2:E:186:ASP:O	2:E:187:LEU:C	2.51	0.49
2:E:423:VAL:HG12	2:E:425:SER:O	2.13	0.49
2:E:437:ASP:O	2:E:440:ASN:HB2	2.12	0.49
2:E:577:UNK:C	2:E:579:UNK:N	2.76	0.49
2:E:653:UNK:O	2:E:654:UNK:C	2.60	0.49
2:E:737:UNK:C	2:E:739:UNK:N	2.74	0.49
2:E:919:UNK:O	2:E:922:UNK:N	2.45	0.49
2:E:949:UNK:C	2:E:951:UNK:N	2.75	0.49
2:E:1211:UNK:O	2:E:1212:UNK:CB	2.60	0.49
2:E:1756:ASN:O	2:E:1757:GLU:C	2.51	0.49
1:G:930:LEU:C	1:G:932:PHE:H	2.16	0.49
1:G:988:ILE:O	1:G:990:LEU:N	2.46	0.49
1:G:1103:ILE:O	1:G:1106:ILE:CG1	2.61	0.49
1:G:1193:TRP:CZ2	1:G:1380:GLN:CB	2.87	0.49
1:G:1320:LEU:HG	1:G:1321:SER:H	1.78	0.49
2:H:184:VAL:HG22	2:H:184:VAL:O	2.11	0.49
2:H:184:VAL:HG21	2:H:247:ALA:HB1	1.94	0.49
2:H:213:LEU:HD11	2:H:215:ILE:HD11	1.94	0.49
2:H:460:TYR:CD2	2:H:465:GLY:HA3	2.48	0.49
2:H:577:UNK:C	2:H:579:UNK:N	2.73	0.49
2:H:1051:UNK:O	2:H:1053:UNK:N	2.46	0.49
2:H:1283:UNK:O	2:H:1284:UNK:O	2.30	0.49
2:H:1482:UNK:O	2:H:1483:UNK:CB	2.61	0.49
2:H:1519:UNK:O	2:H:1521:UNK:N	2.45	0.49
2:H:1687:ALA:O	2:H:1688:GLN:C	2.51	0.49
2:H:1706:ILE:CD1	2:H:1783:LEU:HD12	2.43	0.49
1:A:430:UNK:C	1:A:431:UNK:O	2.59	0.49
1:A:458:UNK:HA	1:A:1631:LEU:HD21	1.95	0.49
1:A:580:UNK:O	1:A:582:UNK:N	2.46	0.49
1:A:854:HIS:O	1:A:855:SER:OG	2.23	0.49
1:A:1208:VAL:HA	1:A:1277:GLU:OE1	2.13	0.49
1:A:1290:LEU:HA	1:A:1701:LYS:HD2	1.93	0.49
1:A:1329:VAL:CG1	1:A:1385:GLN:O	2.61	0.49
1:A:1569:GLY:O	1:A:1571:PRO:HD3	2.13	0.49
2:B:49:ALA:H	2:B:118:LYS:NZ	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:91:PHE:CE2	2:B:101:ILE:HD11	2.47	0.49
2:B:390:ASN:O	2:B:393:LEU:HB3	2.12	0.49
2:B:517:HIS:O	2:B:518:ARG:C	2.51	0.49
2:B:922:UNK:O	2:B:924:UNK:N	2.46	0.49
2:B:1246:UNK:O	2:B:1247:UNK:C	2.60	0.49
2:B:1830:VAL:O	2:B:1831:VAL:C	2.50	0.49
1:D:695:GLY:O	1:D:699:GLY:N	2.37	0.49
1:D:869:ILE:CG2	1:D:901:MET:SD	3.01	0.49
1:D:1229:THR:O	1:D:1230:ASP:HB3	2.13	0.49
1:D:1455:ARG:NH2	1:D:1458:GLN:HB2	2.24	0.49
1:D:1618:LEU:HD22	1:D:1623:TYR:CZ	2.48	0.49
2:E:408:PRO:HG2	2:E:409:PHE:N	2.27	0.49
2:E:468:LEU:HD21	2:E:479:ILE:HD11	1.94	0.49
2:E:540:ASP:HB2	2:E:544:LYS:CE	2.43	0.49
2:E:667:UNK:HA	2:E:690:UNK:CB	2.43	0.49
2:E:869:UNK:C	2:E:871:UNK:N	2.73	0.49
2:E:1058:UNK:HA	2:E:1061:UNK:CB	2.43	0.49
2:E:1283:UNK:O	2:E:1284:UNK:O	2.31	0.49
2:E:1782:THR:O	2:E:1783:LEU:C	2.52	0.49
2:E:1878:VAL:HG23	2:E:1879:GLY:N	2.26	0.49
1:G:787:LYS:O	1:G:790:PHE:HB3	2.13	0.49
1:G:854:HIS:O	1:G:855:SER:CB	2.59	0.49
1:G:1067:LEU:HD23	1:G:1074:GLY:N	2.28	0.49
1:G:1087:LYS:O	1:G:1088:ASP:HB2	2.12	0.49
1:G:1119:LYS:HG2	1:G:1122:ILE:HG12	1.95	0.49
1:G:1244:GLY:O	1:G:1327:CYS:HA	2.10	0.49
1:G:1274:ILE:HG23	1:G:1275:LEU:N	2.26	0.49
1:G:1453:VAL:O	1:G:1457:ALA:HB2	2.13	0.49
1:G:1872:UNK:HA	1:G:1881:UNK:CB	2.43	0.49
2:H:4:TYR:O	2:H:5:SER:HB3	2.13	0.49
2:H:468:LEU:HD21	2:H:479:ILE:HD11	1.94	0.49
2:H:1020:UNK:C	2:H:1022:UNK:N	2.75	0.49
2:H:1260:UNK:O	2:H:1261:UNK:C	2.60	0.49
2:H:1560:UNK:O	2:H:1561:UNK:CB	2.60	0.49
2:H:1706:ILE:O	2:H:1709:ILE:N	2.46	0.49
2:H:1718:THR:HG23	2:H:1765:ARG:CA	2.41	0.49
2:H:1778:GLN:OE1	2:H:1809:LEU:HD13	2.12	0.49
2:H:1878:VAL:HG23	2:H:1879:GLY:N	2.26	0.49
1:A:690:ALA:O	1:A:694:GLN:HG3	2.13	0.48
1:A:824:LEU:O	1:A:826:MET:HG2	2.13	0.48
1:A:864:VAL:CG1	1:A:865:CYS:N	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:910:THR:O	1:A:911:PRO:C	2.51	0.48
1:A:1045:PHE:O	1:A:1046:SER:O	2.30	0.48
1:A:1251:MET:CE	1:A:1585:LYS:HE2	2.42	0.48
1:A:1339:GLY:O	1:A:1340:SER:O	2.30	0.48
1:A:1376:PHE:O	1:A:1377:MET:HG2	2.13	0.48
1:A:1615:ASP:C	1:A:1615:ASP:OD1	2.51	0.48
2:B:41:LEU:N	2:B:42:PRO:CD	2.75	0.48
2:B:719:UNK:O	2:B:720:UNK:CB	2.61	0.48
2:B:723:UNK:O	2:B:725:UNK:N	2.45	0.48
2:B:822:UNK:O	2:B:823:UNK:CB	2.60	0.48
2:B:1328:UNK:O	2:B:1329:UNK:C	2.61	0.48
1:D:705:VAL:CG2	1:D:732:LEU:HD11	2.43	0.48
1:D:1099:GLU:C	1:D:1102:GLY:H	2.12	0.48
1:D:1135:GLU:O	1:D:1136:ALA:HB3	2.13	0.48
1:D:1190:PRO:HG3	1:D:1379:ALA:HA	1.95	0.48
1:D:1313:ASP:OD2	1:D:1407:ALA:O	2.31	0.48
1:D:1328:ILE:O	1:D:1328:ILE:CG1	2.60	0.48
1:D:1425:ILE:O	1:D:1426:LEU:HB3	2.13	0.48
1:D:1519:ILE:CG1	1:D:1521:PRO:HD2	2.42	0.48
1:D:1604:ILE:HG23	1:D:1630:THR:HA	1.94	0.48
1:D:1625:LEU:HD11	1:D:1626:TYR:HD1	1.78	0.48
1:D:1665:ILE:O	1:D:1666:THR:HB	2.13	0.48
2:E:4:TYR:O	2:E:5:SER:HB3	2.12	0.48
2:E:253:ALA:O	2:E:254:LYS:C	2.52	0.48
2:E:462:THR:HG21	2:E:482:CYS:O	2.13	0.48
2:E:915:UNK:O	2:E:916:UNK:C	2.60	0.48
3:F:60:UNK:O	3:F:61:UNK:C	2.60	0.48
1:G:737:PHE:CD1	1:G:748:LEU:HD22	2.48	0.48
1:G:742:LYS:O	1:G:744:ASP:N	2.45	0.48
1:G:833:PHE:H	1:G:833:PHE:HD1	1.61	0.48
1:G:1204:ILE:O	1:G:1208:VAL:HG22	2.13	0.48
1:G:1207:GLN:HE21	1:G:1207:GLN:C	2.13	0.48
1:G:1353:LEU:HA	1:G:1356:PHE:CB	2.42	0.48
1:G:1370:THR:H	1:G:1547:LYS:CD	2.21	0.48
1:G:1536:LEU:CA	1:G:1638:ALA:HB3	2.43	0.48
1:G:1541:PHE:CD2	1:G:1553:GLU:OE2	2.66	0.48
1:G:1625:LEU:HD21	1:G:1626:TYR:CD1	2.48	0.48
1:G:1722:VAL:HA	1:G:1731:LEU:HA	1.95	0.48
2:H:494:THR:O	2:H:495:GLN:C	2.51	0.48
2:H:753:UNK:O	2:H:754:UNK:O	2.30	0.48
2:H:822:UNK:O	2:H:823:UNK:CB	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1256:UNK:O	2:H:1258:UNK:N	2.45	0.48
2:H:1314:UNK:O	2:H:1315:UNK:CB	2.60	0.48
2:H:1328:UNK:O	2:H:1329:UNK:C	2.60	0.48
2:H:1887:GLU:OE2	2:H:1888:ILE:HG22	2.13	0.48
1:A:808:LYS:HA	1:A:808:LYS:CE	2.28	0.48
1:A:957:VAL:O	1:A:958:SER:C	2.52	0.48
1:A:1099:GLU:CG	1:A:1100:HIS:N	2.65	0.48
1:A:1114:TYR:CB	1:A:1115:ASN:ND2	2.68	0.48
1:A:1118:LYS:HZ2	1:A:1337:GLU:HG3	1.75	0.48
1:A:1275:LEU:C	1:A:1275:LEU:HD13	2.34	0.48
2:B:504:PHE:N	2:B:504:PHE:CD2	2.81	0.48
2:B:1173:UNK:CB	2:B:1181:UNK:N	2.72	0.48
2:B:1271:UNK:O	2:B:1272:UNK:C	2.61	0.48
2:B:1421:UNK:O	2:B:1423:UNK:N	2.46	0.48
2:B:1687:ALA:O	2:B:1690:VAL:HB	2.13	0.48
1:D:689:GLY:O	1:D:690:ALA:C	2.52	0.48
1:D:869:ILE:HG23	1:D:926:LEU:CB	2.36	0.48
1:D:929:GLY:O	1:D:931:GLN:N	2.46	0.48
1:D:1169:LYS:CG	1:D:1170:GLY:H	2.17	0.48
1:D:1418:VAL:HG11	1:D:1647:GLY:N	2.28	0.48
1:D:1703:HIS:O	1:D:1704:ALA:HB3	2.13	0.48
1:D:1705:PRO:HG2	1:D:1706:TYR:CD1	2.48	0.48
1:D:1729:GLY:O	1:D:1730:SER:HB3	2.13	0.48
2:E:974:UNK:C	2:E:976:UNK:N	2.73	0.48
2:E:1587:UNK:O	2:E:1588:UNK:C	2.61	0.48
2:E:1871:LEU:HD13	2:E:1882:THR:HG22	1.96	0.48
2:E:2021:UNK:O	2:E:2022:UNK:CB	2.60	0.48
1:G:460:UNK:O	1:G:462:UNK:N	2.46	0.48
1:G:864:VAL:CG1	1:G:865:CYS:H	2.26	0.48
1:G:1029:PRO:HB3	1:G:1191:THR:O	2.14	0.48
1:G:1107:GLU:OE1	1:G:1190:PRO:HA	2.14	0.48
1:G:1184:LEU:HD12	1:G:1185:VAL:H	1.78	0.48
1:G:1229:THR:O	1:G:1230:ASP:HB3	2.13	0.48
1:G:1248:GLY:O	1:G:1301:PRO:HD2	2.13	0.48
1:G:1525:ALA:C	1:G:1527:ALA:N	2.67	0.48
1:G:1605:ILE:CG1	1:G:1606:PRO:HA	2.43	0.48
1:G:1735:SER:O	1:G:1737:ASN:N	2.46	0.48
2:H:57:PRO:C	2:H:59:GLU:N	2.65	0.48
2:H:375:LYS:CG	2:H:376:ASN:H	2.23	0.48
2:H:479:ILE:HA	2:H:482:CYS:SG	2.53	0.48
2:H:735:UNK:C	2:H:737:UNK:N	2.71	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:765:UNK:O	2:H:766:UNK:C	2.61	0.48
2:H:1271:UNK:O	2:H:1272:UNK:C	2.61	0.48
2:H:1587:UNK:O	2:H:1588:UNK:C	2.61	0.48
2:H:1807:HIS:O	2:H:1809:LEU:N	2.46	0.48
2:H:1855:ILE:CG2	2:H:1951:UNK:HA	2.43	0.48
2:H:1898:TYR:CD2	2:H:1936:VAL:HG23	2.48	0.48
1:A:197:UNK:O	1:A:198:UNK:C	2.60	0.48
1:A:930:LEU:C	1:A:932:PHE:H	2.17	0.48
1:A:1094:GLU:O	1:A:1095:THR:C	2.52	0.48
1:A:1156:GLU:HG2	1:A:1169:LYS:C	2.33	0.48
1:A:1158:PRO:CG	1:A:1159:GLU:N	2.75	0.48
1:A:1173:LEU:O	1:A:1174:TYR:O	2.32	0.48
1:A:1187:GLY:CA	1:A:1188:GLN:NE2	2.76	0.48
1:A:1209:ASP:O	1:A:1210:PRO:O	2.30	0.48
1:A:1219:VAL:HG13	1:A:1220:VAL:N	2.28	0.48
1:A:1230:ASP:O	1:A:1232:TYR:N	2.46	0.48
1:A:1378:GLU:HA	1:A:1583:HIS:HA	1.94	0.48
1:A:1470:LEU:O	1:A:1474:ALA:N	2.45	0.48
1:A:1487:LEU:HA	1:A:1490:THR:HG21	1.95	0.48
1:A:1700:SER:HA	1:A:1701:LYS:CE	2.43	0.48
2:B:55:THR:O	2:B:55:THR:HG22	2.12	0.48
2:B:928:UNK:O	2:B:929:UNK:C	2.59	0.48
2:B:1706:ILE:O	2:B:1707:LEU:C	2.51	0.48
2:B:1778:GLN:OE1	2:B:1809:LEU:HD13	2.13	0.48
2:B:2021:UNK:O	2:B:2022:UNK:CB	2.60	0.48
1:D:534:UNK:HA	1:D:537:UNK:CB	2.44	0.48
1:D:677:TYR:O	1:D:678:VAL:HG23	2.13	0.48
1:D:681:THR:HA	1:D:706:THR:HG21	1.95	0.48
1:D:719:GLN:HG3	1:D:720:SER:H	1.79	0.48
1:D:809:GLN:O	1:D:812:ALA:HB3	2.13	0.48
1:D:1057:MET:HE3	1:D:1106:ILE:CG1	2.42	0.48
1:D:1232:TYR:CE1	1:D:1705:PRO:HD3	2.41	0.48
1:D:1438:TYR:O	1:D:1440:SER:N	2.46	0.48
1:D:1470:LEU:HD21	1:D:1485:PHE:HE2	1.78	0.48
1:D:1491:ARG:HG2	1:D:1491:ARG:NH1	2.28	0.48
1:D:1493:ILE:CG1	1:D:1494:HIS:N	2.76	0.48
1:D:1540:SER:OG	1:D:1592:MET:HB3	2.13	0.48
1:D:1614:VAL:O	1:D:1615:ASP:CB	2.50	0.48
2:E:67:TYR:O	2:E:69:SER:N	2.46	0.48
2:E:159:ILE:HG22	2:E:160:PHE:N	2.28	0.48
2:E:173:LEU:HD23	2:E:173:LEU:C	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:272:GLY:HA3	2:E:277:LEU:HA	1.95	0.48
2:E:433:VAL:H	2:E:434:PRO:CD	2.20	0.48
2:E:494:THR:HB	2:E:520:LYS:HZ1	1.75	0.48
2:E:585:UNK:O	2:E:586:UNK:CB	2.60	0.48
2:E:1416:UNK:HA	2:E:1419:UNK:CB	2.43	0.48
2:E:1814:ALA:HB1	2:E:1818:LEU:HD12	1.96	0.48
2:E:1830:VAL:HG13	2:E:1831:VAL:H	1.77	0.48
2:E:1878:VAL:CG1	2:E:1898:TYR:HE1	2.27	0.48
3:F:59:UNK:O	3:F:60:UNK:C	2.61	0.48
1:G:485:UNK:O	1:G:487:UNK:N	2.46	0.48
1:G:625:UNK:O	1:G:626:UNK:C	2.61	0.48
1:G:693:LEU:HG	1:G:697:LEU:HD12	1.94	0.48
1:G:1087:LYS:HE3	1:G:1089:VAL:CG1	2.43	0.48
1:G:1379:ALA:O	1:G:1380:GLN:O	2.32	0.48
1:G:1392:LEU:HD22	1:G:1392:LEU:N	2.23	0.48
1:G:1418:VAL:HG11	1:G:1647:GLY:N	2.28	0.48
1:G:1425:ILE:O	1:G:1426:LEU:HB3	2.13	0.48
1:G:1470:LEU:HD21	1:G:1485:PHE:HE2	1.77	0.48
1:G:1502:ARG:HD3	1:G:1505:GLN:NE2	2.28	0.48
1:G:1597:LEU:HD23	1:G:1597:LEU:H	1.79	0.48
1:G:1703:HIS:O	1:G:1704:ALA:HB3	2.14	0.48
2:H:617:UNK:CB	2:H:649:UNK:HA	2.43	0.48
2:H:719:UNK:O	2:H:720:UNK:CB	2.61	0.48
2:H:720:UNK:C	2:H:722:UNK:N	2.76	0.48
2:H:1295:UNK:O	2:H:1299:UNK:N	2.47	0.48
1:A:747:ALA:O	1:A:751:PHE:N	2.37	0.48
1:A:821:GLN:HA	1:A:863:THR:HB	1.95	0.48
1:A:869:ILE:HG23	1:A:926:LEU:CB	2.37	0.48
1:A:933:VAL:HA	1:A:934:PRO:HD3	1.64	0.48
1:A:937:LYS:O	1:A:940:THR:N	2.46	0.48
1:A:1022:THR:CG2	1:A:1398:VAL:HG23	2.19	0.48
1:A:1226:SER:O	1:A:1226:SER:OG	2.30	0.48
1:A:1626:TYR:HB2	1:A:1627:PRO:HD2	1.95	0.48
1:A:1698:PHE:O	1:A:1699:VAL:HG13	2.13	0.48
2:B:71:LEU:HD12	2:B:76:LYS:NZ	2.26	0.48
2:B:186:ASP:O	2:B:187:LEU:C	2.50	0.48
2:B:361:PRO:O	2:B:365:GLN:HG3	2.13	0.48
2:B:383:PRO:O	2:B:384:GLN:O	2.31	0.48
2:B:471:LEU:CG	2:B:472:SER:H	2.01	0.48
2:B:617:UNK:CB	2:B:649:UNK:HA	2.44	0.48
2:B:738:UNK:O	2:B:742:UNK:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:765:UNK:O	2:B:766:UNK:C	2.62	0.48
2:B:1058:UNK:C	2:B:1060:UNK:N	2.76	0.48
2:B:1678:MET:O	2:B:1679:ASP:C	2.52	0.48
2:B:1879:GLY:O	2:B:1880:LYS:HB3	2.13	0.48
2:B:1981:UNK:O	2:B:1982:UNK:CB	2.61	0.48
1:D:807:LYS:HG2	1:D:861:GLN:HG3	1.95	0.48
1:D:993:PRO:HA	1:D:1681:GLU:OE1	2.13	0.48
1:D:1246:CYS:N	1:D:1328:ILE:CG2	2.77	0.48
1:D:1470:LEU:O	1:D:1474:ALA:N	2.47	0.48
1:D:1497:ALA:O	1:D:1498:GLU:C	2.52	0.48
1:D:1655:VAL:HG13	1:D:1656:VAL:N	2.27	0.48
2:E:253:ALA:O	2:E:256:LEU:N	2.47	0.48
2:E:367:GLU:OE1	2:E:428:HIS:O	2.31	0.48
2:E:475:ILE:C	2:E:477:GLU:H	2.16	0.48
2:E:738:UNK:O	2:E:742:UNK:CB	2.62	0.48
2:E:797:UNK:O	2:E:799:UNK:N	2.47	0.48
2:E:1883:GLY:HA2	2:E:1894:GLU:CG	2.43	0.48
2:E:1887:GLU:OE2	2:E:1888:ILE:HG22	2.12	0.48
3:F:3:UNK:HA	3:F:6:UNK:CB	2.44	0.48
1:G:689:GLY:O	1:G:690:ALA:C	2.52	0.48
1:G:779:ILE:CD1	1:G:837:GLY:HA3	2.43	0.48
1:G:927:ASN:OD1	1:G:930:LEU:HB2	2.14	0.48
1:G:1046:SER:O	1:G:1047:LEU:C	2.52	0.48
1:G:1082:GLU:C	1:G:1085:ASP:OD1	2.52	0.48
1:G:1232:TYR:CE1	1:G:1705:PRO:HD3	2.44	0.48
1:G:1320:LEU:C	1:G:1320:LEU:HD12	2.34	0.48
1:G:1519:ILE:CG1	1:G:1521:PRO:HD2	2.43	0.48
2:H:38:ASN:HA	2:H:41:LEU:HG	1.95	0.48
2:H:131:ILE:CD1	2:H:182:VAL:HG13	2.41	0.48
2:H:232:LEU:O	2:H:232:LEU:HD23	2.13	0.48
2:H:240:LEU:HD12	2:H:240:LEU:N	2.28	0.48
2:H:306:ILE:HG22	2:H:310:CYS:SG	2.53	0.48
2:H:373:GLY:CA	2:H:519:ASN:OD1	2.60	0.48
2:H:667:UNK:HA	2:H:690:UNK:CB	2.44	0.48
2:H:738:UNK:O	2:H:742:UNK:CB	2.62	0.48
2:H:1061:UNK:C	2:H:1063:UNK:N	2.74	0.48
2:H:1182:UNK:O	2:H:1183:UNK:O	2.30	0.48
2:H:1709:ILE:CD1	2:H:1719:ILE:HD11	2.36	0.48
2:H:1965:UNK:O	2:H:1967:UNK:N	2.46	0.48
1:A:689:GLY:O	1:A:692:VAL:HB	2.13	0.48
1:A:737:PHE:CD1	1:A:748:LEU:HD22	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1216:LEU:HD11	1:A:1290:LEU:CD2	2.43	0.48
1:A:1290:LEU:HB3	1:A:1291:LEU:HD13	1.95	0.48
1:A:1291:LEU:O	1:A:1292:ILE:C	2.52	0.48
1:A:1366:SER:HB3	1:A:1579:PHE:HD1	1.79	0.48
1:A:1418:VAL:CG1	1:A:1419:PRO:HA	2.44	0.48
1:A:1448:ARG:O	1:A:1451:GLN:CB	2.61	0.48
1:A:1558:ASN:C	1:A:1560:MET:N	2.65	0.48
1:A:1641:ILE:O	1:A:1642:THR:CB	2.61	0.48
2:B:345:THR:O	2:B:349:VAL:HG23	2.13	0.48
2:B:375:LYS:HG3	2:B:376:ASN:ND2	2.27	0.48
2:B:807:UNK:N	2:B:1034:UNK:CB	2.77	0.48
2:B:1137:UNK:O	2:B:1139:UNK:N	2.47	0.48
2:B:1774:THR:O	2:B:1774:THR:HG22	2.14	0.48
1:D:580:UNK:O	1:D:582:UNK:N	2.45	0.48
1:D:637:UNK:O	1:D:638:UNK:CB	2.61	0.48
1:D:749:ILE:HD11	1:D:802:MET:CE	2.43	0.48
1:D:773:ALA:O	1:D:774:ILE:HB	2.13	0.48
1:D:895:THR:OG1	1:D:928:GLY:HA3	2.13	0.48
1:D:1153:ASP:CG	1:D:1157:ILE:HG23	2.33	0.48
1:D:1208:VAL:HG23	1:D:1209:ASP:N	2.27	0.48
1:D:1733:PHE:CD1	1:D:1733:PHE:N	2.82	0.48
2:E:214:ASN:C	2:E:216:LEU:N	2.66	0.48
2:E:578:UNK:C	2:E:580:UNK:N	2.77	0.48
2:E:699:UNK:O	2:E:702:UNK:N	2.46	0.48
2:E:1177:UNK:O	2:E:1178:UNK:CB	2.61	0.48
2:E:1256:UNK:O	2:E:1258:UNK:N	2.47	0.48
2:E:1418:UNK:O	2:E:1420:UNK:N	2.46	0.48
2:E:1678:MET:O	2:E:1679:ASP:C	2.50	0.48
2:E:1770:LEU:HD23	2:E:1770:LEU:O	2.13	0.48
1:G:910:THR:O	1:G:911:PRO:C	2.51	0.48
1:G:910:THR:HG22	1:G:913:VAL:CG2	2.44	0.48
1:G:937:LYS:O	1:G:940:THR:N	2.46	0.48
1:G:1233:GLU:O	1:G:1233:GLU:HG2	2.14	0.48
1:G:1306:ALA:HB2	1:G:1645:GLY:N	2.29	0.48
1:G:1453:VAL:O	1:G:1455:ARG:O	2.31	0.48
1:G:1734:ASN:HA	1:G:1737:ASN:O	2.13	0.48
2:H:321:PRO:C	2:H:323:ILE:N	2.65	0.48
2:H:540:ASP:HB2	2:H:544:LYS:CE	2.42	0.48
2:H:1056:UNK:O	2:H:1057:UNK:C	2.62	0.48
2:H:1157:UNK:CB	2:H:1164:UNK:O	2.62	0.48
2:H:1454:UNK:CB	2:H:1505:UNK:HA	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1702:TYR:O	2:H:1703:GLY:O	2.32	0.48
2:H:1738:PHE:HB2	2:H:1755:ILE:HB	1.93	0.48
2:H:1817:SER:O	2:H:1818:LEU:C	2.51	0.48
2:H:1981:UNK:O	2:H:1982:UNK:CB	2.61	0.48
2:H:2021:UNK:O	2:H:2022:UNK:CB	2.61	0.48
1:A:557:UNK:O	1:A:559:UNK:N	2.46	0.48
1:A:810:LYS:O	1:A:812:ALA:N	2.46	0.48
1:A:1067:LEU:HD23	1:A:1074:GLY:N	2.29	0.48
1:A:1208:VAL:HG23	1:A:1209:ASP:N	2.29	0.48
1:A:1286:TRP:C	1:A:1288:ASN:N	2.64	0.48
1:A:1396:MET:HG2	1:A:1676:LYS:HE2	1.96	0.48
1:A:1471:LYS:O	1:A:1474:ALA:N	2.46	0.48
1:A:1541:PHE:CD2	1:A:1553:GLU:OE2	2.66	0.48
1:A:1707:THR:HG23	1:A:1710:LEU:CG	2.43	0.48
2:B:265:SER:O	2:B:266:TYR:C	2.52	0.48
2:B:390:ASN:O	2:B:394:ARG:HG3	2.13	0.48
2:B:393:LEU:HD21	2:B:418:ASN:HB3	1.95	0.48
2:B:539:ASP:O	2:B:540:ASP:C	2.51	0.48
2:B:1416:UNK:HA	2:B:1419:UNK:CB	2.44	0.48
2:B:1534:UNK:HA	2:B:1630:UNK:O	2.14	0.48
2:B:1706:ILE:O	2:B:1709:ILE:N	2.46	0.48
2:B:1733:TYR:CE1	2:B:1760:THR:HG23	2.47	0.48
1:D:574:UNK:O	1:D:577:UNK:N	2.46	0.48
1:D:884:ILE:HG22	1:D:887:GLY:CA	2.43	0.48
1:D:929:GLY:O	1:D:930:LEU:C	2.52	0.48
1:D:1029:PRO:CG	1:D:1581:THR:HG23	2.43	0.48
1:D:1208:VAL:C	1:D:1277:GLU:HG2	2.34	0.48
1:D:1264:ARG:C	1:D:1266:LYS:H	2.17	0.48
1:D:1290:LEU:CA	1:D:1701:LYS:HD2	2.43	0.48
1:D:1378:GLU:HA	1:D:1583:HIS:C	2.34	0.48
1:D:1453:VAL:O	1:D:1457:ALA:HB2	2.14	0.48
1:D:1456:GLU:N	1:D:1459:ILE:HG13	2.29	0.48
1:D:1542:HIS:HB2	1:D:1592:MET:HE1	1.96	0.48
1:D:1615:ASP:OD1	1:D:1618:LEU:HG	2.13	0.48
1:D:1665:ILE:HD12	1:D:1669:ARG:N	2.19	0.48
1:D:1721:ARG:O	1:D:1731:LEU:HD23	2.13	0.48
2:E:16:LEU:HG	2:H:20:LEU:HD21	1.96	0.48
2:E:158:ALA:O	2:E:270:ALA:HA	2.14	0.48
2:E:230:TYR:C	2:E:232:LEU:N	2.66	0.48
2:E:265:SER:O	2:E:266:TYR:C	2.52	0.48
2:E:329:GLU:C	2:E:331:ASN:N	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:395:LYS:O	2:E:396:ALA:CB	2.62	0.48
2:E:1295:UNK:O	2:E:1298:UNK:N	2.47	0.48
2:E:1681:TYR:C	2:E:1681:TYR:CD2	2.86	0.48
2:E:1687:ALA:O	2:E:1690:VAL:HB	2.14	0.48
2:E:1730:ARG:C	2:E:1732:ASN:N	2.66	0.48
2:E:1753:LYS:O	2:E:1754:GLU:CB	2.62	0.48
2:E:1807:HIS:O	2:E:1809:LEU:N	2.47	0.48
1:G:521:UNK:O	1:G:522:UNK:C	2.61	0.48
1:G:680:ILE:HD12	1:G:704:VAL:O	2.13	0.48
1:G:737:PHE:HE1	1:G:745:VAL:HA	1.78	0.48
1:G:1055:TRP:CH2	1:G:1198:TYR:CD1	2.97	0.48
1:G:1106:ILE:O	1:G:1106:ILE:CG2	2.56	0.48
1:G:1190:PRO:O	1:G:1191:THR:CB	2.61	0.48
1:G:1223:PHE:CE1	1:G:1231:PRO:HB3	2.49	0.48
1:G:1343:PHE:C	1:G:1345:ASN:N	2.67	0.48
1:G:1345:ASN:HD22	1:G:1345:ASN:HA	1.52	0.48
1:G:1427:THR:O	1:G:1430:ARG:N	2.46	0.48
2:H:158:ALA:O	2:H:270:ALA:HA	2.14	0.48
2:H:259:THR:O	2:H:262:GLU:N	2.47	0.48
2:H:264:ARG:HB2	2:H:284:ALA:O	2.13	0.48
2:H:443:LEU:HB3	2:H:449:SER:HB3	1.93	0.48
2:H:1871:LEU:HD13	2:H:1882:THR:HG22	1.96	0.48
2:H:2004:UNK:O	2:H:2005:UNK:C	2.61	0.48
3:I:64:UNK:O	3:I:65:UNK:O	2.32	0.48
1:A:790:PHE:O	1:A:791:ALA:C	2.52	0.48
1:A:1009:LEU:H	1:A:1009:LEU:CD1	2.24	0.48
1:A:1152:VAL:C	1:A:1154:ILE:N	2.61	0.48
1:A:1308:SER:OG	1:A:1589:GLY:HA3	2.13	0.48
1:A:1313:ASP:OD2	1:A:1407:ALA:O	2.32	0.48
1:A:1320:LEU:HG	1:A:1321:SER:H	1.78	0.48
1:A:1379:ALA:O	1:A:1380:GLN:O	2.32	0.48
1:A:1703:HIS:O	1:A:1704:ALA:HB3	2.13	0.48
2:B:61:VAL:C	2:B:63:LYS:H	2.17	0.48
2:B:186:ASP:O	2:B:188:ILE:N	2.47	0.48
2:B:468:LEU:HD21	2:B:479:ILE:HD11	1.95	0.48
2:B:479:ILE:HA	2:B:482:CYS:SG	2.53	0.48
2:B:949:UNK:C	2:B:951:UNK:N	2.76	0.48
2:B:1283:UNK:O	2:B:1284:UNK:O	2.32	0.48
2:B:1560:UNK:O	2:B:1561:UNK:CB	2.61	0.48
2:B:1772:SER:C	2:B:1774:THR:N	2.67	0.48
1:D:784:ILE:O	1:D:788:SER:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:854:HIS:O	1:D:855:SER:CB	2.61	0.48
1:D:865:CYS:O	1:D:866:GLY:O	2.31	0.48
1:D:901:MET:O	1:D:904:ASN:N	2.34	0.48
1:D:1029:PRO:HB3	1:D:1191:THR:O	2.13	0.48
1:D:1035:THR:O	1:D:1038:GLU:HB2	2.14	0.48
1:D:1040:GLU:O	1:D:1040:GLU:HG3	2.13	0.48
1:D:1226:SER:O	1:D:1226:SER:OG	2.31	0.48
1:D:1639:VAL:HG23	1:D:1640:SER:N	2.23	0.48
1:D:1668:ASP:O	1:D:1670:TYR:N	2.37	0.48
2:E:368:ILE:HG23	2:E:368:ILE:O	2.13	0.48
2:E:1458:UNK:O	2:E:1459:UNK:C	2.61	0.48
2:E:1560:UNK:O	2:E:1561:UNK:CB	2.60	0.48
2:E:1642:UNK:O	2:E:1650:UNK:O	2.32	0.48
2:E:1723:GLY:O	2:E:1724:GLU:C	2.51	0.48
1:G:839:TYR:HE1	1:G:843:LYS:CE	2.27	0.48
1:G:882:ASN:C	1:G:883:ILE:HG13	2.33	0.48
1:G:1193:TRP:HB2	1:G:1194:ASN:H	1.38	0.48
1:G:1224:ILE:CD1	1:G:1687:PHE:HD2	2.27	0.48
1:G:1260:MET:HB3	1:G:1261:PHE:CE2	2.49	0.48
1:G:1454:THR:CG2	1:G:1455:ARG:N	2.59	0.48
2:H:1656:UNK:O	2:H:1657:UNK:CB	2.61	0.48
2:H:1932:SER:C	2:H:1934:GLU:H	2.17	0.48
1:A:703:VAL:HG13	1:A:704:VAL:N	2.29	0.48
1:A:1226:SER:O	1:A:1227:GLY:C	2.50	0.48
1:A:1320:LEU:C	1:A:1320:LEU:HD12	2.34	0.48
1:A:1329:VAL:CG1	1:A:1385:GLN:N	2.75	0.48
1:A:1426:LEU:HD13	1:A:1650:GLY:HA3	1.96	0.48
2:B:132:MET:O	2:B:133:ALA:CB	2.62	0.48
2:B:193:GLU:O	2:B:196:SER:HB3	2.14	0.48
2:B:246:LEU:HD23	2:B:279:THR:HG23	1.96	0.48
2:B:677:UNK:O	2:B:678:UNK:C	2.62	0.48
2:B:748:UNK:O	2:B:749:UNK:CB	2.61	0.48
2:B:1782:THR:O	2:B:1783:LEU:C	2.52	0.48
2:B:1785:GLU:OE1	2:B:1813:ALA:HB1	2.13	0.48
2:B:1792:LEU:N	2:B:1792:LEU:HD23	2.29	0.48
1:D:1190:PRO:O	1:D:1191:THR:CB	2.62	0.48
1:D:1384:ILE:C	1:D:1385:GLN:HG3	2.33	0.48
1:D:1392:LEU:HD22	1:D:1392:LEU:N	2.24	0.48
1:D:1448:ARG:O	1:D:1451:GLN:CB	2.61	0.48
1:D:1569:GLY:C	1:D:1571:PRO:HD3	2.33	0.48
1:D:1569:GLY:O	1:D:1571:PRO:HD3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1646:PHE:C	1:D:1648:GLN:N	2.66	0.48
1:D:1646:PHE:C	1:D:1648:GLN:H	2.17	0.48
2:E:344:LEU:HD13	2:E:345:THR:N	2.20	0.48
2:E:387:TYR:O	2:E:390:ASN:N	2.46	0.48
2:E:720:UNK:C	2:E:722:UNK:N	2.75	0.48
2:E:1271:UNK:O	2:E:1272:UNK:C	2.61	0.48
2:E:1361:UNK:O	2:E:1362:UNK:CB	2.62	0.48
2:E:1733:TYR:OH	2:E:1761:SER:CA	2.49	0.48
2:E:1740:THR:C	2:E:1741:ILE:HG13	2.33	0.48
2:E:1830:VAL:O	2:E:1831:VAL:C	2.52	0.48
1:G:693:LEU:C	1:G:695:GLY:N	2.65	0.48
1:G:826:MET:HB2	1:G:868:ILE:CA	2.40	0.48
1:G:1062:TYR:CD1	1:G:1063:HIS:N	2.62	0.48
1:G:1108:PRO:HB3	1:G:1362:PRO:HB2	1.96	0.48
1:G:1118:LYS:HE2	1:G:1337:GLU:CA	2.37	0.48
1:G:1216:LEU:HD13	1:G:1698:PHE:CE1	2.49	0.48
1:G:1223:PHE:O	1:G:1228:ILE:N	2.44	0.48
1:G:1656:VAL:CG2	1:G:1657:HIS:N	2.77	0.48
1:G:1665:ILE:O	1:G:1666:THR:HB	2.14	0.48
2:H:248:HIS:HE1	2:H:530:ALA:HB2	1.78	0.48
2:H:303:LEU:HA	2:H:306:ILE:CD1	2.40	0.48
2:H:323:ILE:O	2:H:324:LEU:C	2.52	0.48
2:H:797:UNK:O	2:H:799:UNK:N	2.47	0.48
2:H:1782:THR:O	2:H:1783:LEU:C	2.51	0.48
2:H:1860:GLY:O	2:H:1861:ARG:HB2	2.14	0.48
1:A:589:UNK:O	1:A:591:UNK:N	2.46	0.48
1:A:625:UNK:O	1:A:626:UNK:C	2.60	0.48
1:A:693:LEU:C	1:A:695:GLY:N	2.63	0.48
1:A:1031:GLY:N	1:A:1035:THR:HG21	2.28	0.48
1:A:1087:LYS:HE3	1:A:1089:VAL:CG1	2.44	0.48
1:A:1089:VAL:H	1:A:1093:TYR:HD2	1.62	0.48
1:A:1246:CYS:HB2	1:A:1329:VAL:O	2.14	0.48
2:B:460:TYR:HD2	2:B:465:GLY:HA3	1.78	0.48
2:B:578:UNK:O	2:B:580:UNK:N	2.47	0.48
2:B:1490:UNK:O	2:B:1491:UNK:CB	2.62	0.48
2:B:1706:ILE:HG22	2:B:1710:VAL:CG2	2.44	0.48
2:B:1715:VAL:CA	2:B:1718:THR:HG22	2.44	0.48
2:B:1723:GLY:O	2:B:1724:GLU:C	2.52	0.48
2:B:1867:SER:C	2:B:1869:GLU:N	2.67	0.48
1:D:563:UNK:O	1:D:565:UNK:N	2.47	0.48
1:D:684:GLY:C	1:D:686:GLY:N	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1036:ARG:NH2	1:D:1040:GLU:OE1	2.47	0.48
1:D:1320:LEU:C	1:D:1320:LEU:HD12	2.34	0.48
1:D:1329:VAL:HG11	1:D:1385:GLN:N	2.29	0.48
1:D:1502:ARG:HD3	1:D:1505:GLN:NE2	2.29	0.48
2:E:41:LEU:HB3	2:E:46:GLU:N	2.20	0.48
2:E:87:CYS:C	2:E:90:GLU:HB3	2.33	0.48
2:E:131:ILE:O	2:E:131:ILE:HG12	2.14	0.48
2:E:164:GLY:O	2:E:166:THR:N	2.47	0.48
2:E:253:ALA:O	2:E:255:LEU:N	2.46	0.48
2:E:273:HIS:O	2:E:276:GLY:N	2.45	0.48
2:E:475:ILE:O	2:E:479:ILE:HG12	2.14	0.48
2:E:1014:UNK:O	2:E:1016:UNK:N	2.46	0.48
2:E:1205:UNK:CB	2:E:1212:UNK:N	2.77	0.48
2:E:1742:VAL:HG12	2:E:1744:GLY:H	1.79	0.48
2:E:2037:UNK:O	2:E:2041:UNK:CB	2.62	0.48
1:G:929:GLY:O	1:G:931:GLN:N	2.47	0.48
1:G:1083:PRO:HG2	1:G:1084:VAL:N	2.27	0.48
1:G:1187:GLY:CA	1:G:1188:GLN:NE2	2.77	0.48
1:G:1329:VAL:CG1	1:G:1385:GLN:N	2.74	0.48
1:G:1513:TYR:H	1:G:1513:TYR:HD1	1.55	0.48
1:G:1544:THR:HG22	1:G:1584:PRO:HG3	1.96	0.48
1:G:1738:ILE:O	1:G:1739:GLN:CB	2.61	0.48
2:H:46:GLU:O	2:H:47:GLY:C	2.52	0.48
2:H:475:ILE:O	2:H:479:ILE:HG12	2.14	0.48
2:H:527:VAL:HG11	2:H:544:LYS:HB2	1.96	0.48
2:H:646:UNK:O	2:H:648:UNK:N	2.47	0.48
2:H:748:UNK:O	2:H:749:UNK:CB	2.62	0.48
2:H:1334:UNK:C	2:H:1335:UNK:O	2.62	0.48
2:H:1814:ALA:HB1	2:H:1818:LEU:HD12	1.96	0.48
1:A:707:THR:HG22	1:A:709:ARG:H	1.79	0.48
1:A:901:MET:CE	1:A:905:LEU:CD2	2.92	0.48
1:A:998:TYR:CD1	1:A:999:LYS:HG2	2.48	0.48
1:A:1142:GLU:C	1:A:1144:PHE:N	2.65	0.48
1:A:1151:LYS:HG3	1:A:1175:ILE:CD1	2.44	0.48
1:A:1248:GLY:HA2	1:A:1330:GLY:HA3	1.94	0.48
2:B:37:PHE:CD1	2:B:49:ALA:HB3	2.49	0.48
2:B:56:THR:O	2:B:59:GLU:CG	2.62	0.48
2:B:375:LYS:O	2:B:377:LEU:HD12	2.14	0.48
2:B:1055:UNK:O	2:B:1059:UNK:N	2.47	0.48
2:B:1455:UNK:O	2:B:1456:UNK:C	2.62	0.48
2:B:1687:ALA:O	2:B:1688:GLN:C	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1742:VAL:HG12	2:B:1744:GLY:H	1.78	0.48
2:B:1888:ILE:O	2:B:1891:TYR:HE1	1.96	0.48
1:D:169:UNK:O	1:D:170:UNK:CB	2.61	0.48
1:D:910:THR:HG22	1:D:913:VAL:CG2	2.43	0.48
1:D:1216:LEU:HD11	1:D:1290:LEU:CD2	2.44	0.48
1:D:1243:VAL:CG1	1:D:1325:ARG:H	2.25	0.48
1:D:1493:ILE:O	1:D:1496:GLU:HB2	2.12	0.48
1:D:1615:ASP:OD1	1:D:1615:ASP:C	2.52	0.48
1:D:1665:ILE:HD12	1:D:1669:ARG:HB2	1.96	0.48
1:D:1682:LYS:HA	1:D:1685:TYR:HB3	1.96	0.48
2:E:460:TYR:HD2	2:E:465:GLY:HA3	1.79	0.48
2:E:875:UNK:O	2:E:876:UNK:CB	2.62	0.48
2:E:1252:UNK:O	2:E:1253:UNK:O	2.31	0.48
2:E:1266:UNK:O	2:E:1269:UNK:N	2.47	0.48
2:E:1687:ALA:O	2:E:1688:GLN:C	2.51	0.48
2:E:1869:GLU:O	2:E:1873:TYR:N	2.47	0.48
1:G:637:UNK:O	1:G:638:UNK:CB	2.62	0.48
1:G:666:UNK:O	1:G:669:UNK:O	2.32	0.48
1:G:1025:ALA:CB	1:G:1221:GLU:HB3	2.44	0.48
1:G:1142:GLU:N	1:G:1144:PHE:HE1	2.12	0.48
1:G:1335:PHE:HE1	1:G:1340:SER:CB	2.13	0.48
1:G:1384:ILE:C	1:G:1385:GLN:HG3	2.34	0.48
1:G:1470:LEU:O	1:G:1474:ALA:N	2.47	0.48
2:H:162:GLY:C	2:H:164:GLY:N	2.67	0.48
2:H:1058:UNK:O	2:H:1061:UNK:N	2.46	0.48
2:H:1712:ASN:O	2:H:1714:PRO:HD3	2.13	0.48
2:H:1770:LEU:HD23	2:H:1770:LEU:O	2.13	0.48
1:A:689:GLY:O	1:A:690:ALA:C	2.53	0.47
1:A:917:CYS:HA	1:A:922:VAL:HG23	1.96	0.47
1:A:1119:LYS:O	1:A:1120:GLU:HB2	2.14	0.47
1:A:1127:VAL:HG23	1:A:1180:ARG:HB2	1.96	0.47
1:A:1241:SER:O	1:A:1243:VAL:N	2.37	0.47
1:A:1316:VAL:CG1	1:A:1317:GLU:N	2.77	0.47
1:A:1455:ARG:CG	1:A:1504:ALA:HB2	2.38	0.47
1:A:1491:ARG:NH1	1:A:1491:ARG:HG2	2.29	0.47
1:A:1493:ILE:CG1	1:A:1494:HIS:N	2.77	0.47
1:A:1558:ASN:OD1	1:A:1621:PHE:CD2	2.67	0.47
1:A:1652:GLN:CD	1:A:1653:ALA:H	2.17	0.47
1:A:1779:UNK:C	1:A:1781:UNK:N	2.76	0.47
2:B:187:LEU:HD23	2:B:187:LEU:HA	1.76	0.47
2:B:432:LEU:HG	2:B:484:ILE:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1196:UNK:O	2:B:1197:UNK:O	2.32	0.47
2:B:1215:UNK:O	2:B:1226:UNK:CB	2.62	0.47
2:B:1730:ARG:C	2:B:1732:ASN:N	2.67	0.47
2:B:1731:GLU:HA	2:B:1735:ALA:HB3	1.97	0.47
2:B:1740:THR:C	2:B:1741:ILE:HG13	2.34	0.47
1:D:690:ALA:O	1:D:694:GLN:HG3	2.13	0.47
1:D:755:THR:HG22	1:D:756:GLU:N	2.28	0.47
1:D:917:CYS:HA	1:D:922:VAL:HG23	1.96	0.47
1:D:1146:HIS:C	1:D:1148:HIS:N	2.65	0.47
1:D:1254:VAL:CG2	1:D:1255:SER:N	2.65	0.47
1:D:1302:VAL:O	1:D:1307:THR:CB	2.58	0.47
1:D:1320:LEU:HG	1:D:1321:SER:H	1.79	0.47
1:D:1538:VAL:O	1:D:1539:ALA:CB	2.62	0.47
1:D:1604:ILE:CD1	1:D:1630:THR:HB	2.32	0.47
1:D:1613:ASN:CG	1:D:1614:VAL:N	2.68	0.47
1:D:1639:VAL:CG2	1:D:1655:VAL:HG12	2.44	0.47
2:E:56:THR:O	2:E:59:GLU:CG	2.62	0.47
2:E:60:LEU:HD12	2:E:60:LEU:N	2.29	0.47
2:E:266:TYR:H	2:E:266:TYR:HD1	1.62	0.47
2:E:723:UNK:O	2:E:725:UNK:N	2.47	0.47
2:E:1751:ILE:HD13	2:E:1840:VAL:CG2	2.43	0.47
2:E:1806:GLY:HA3	2:E:1811:GLU:HG2	1.96	0.47
2:E:1835:GLY:O	2:E:1836:MET:C	2.52	0.47
2:E:1932:SER:C	2:E:1934:GLU:H	2.16	0.47
1:G:677:TYR:O	1:G:678:VAL:HG23	2.14	0.47
1:G:680:ILE:HG23	1:G:769:ILE:HG21	1.95	0.47
1:G:692:VAL:HG22	1:G:902:ALA:HB1	1.96	0.47
1:G:1029:PRO:CG	1:G:1581:THR:HG23	2.44	0.47
1:G:1039:MET:HE3	1:G:1042:PHE:O	2.14	0.47
1:G:1144:PHE:O	1:G:1147:GLN:N	2.47	0.47
1:G:1179:LEU:HG	1:G:1181:PHE:CE1	2.48	0.47
1:G:1208:VAL:C	1:G:1277:GLU:HG2	2.34	0.47
1:G:1223:PHE:CD2	1:G:1386:ILE:HD13	2.47	0.47
1:G:1302:VAL:CG2	1:G:1303:GLY:H	2.19	0.47
1:G:1373:ARG:HG2	1:G:1547:LYS:HB3	1.93	0.47
1:G:1569:GLY:O	1:G:1571:PRO:HD3	2.12	0.47
2:H:10:THR:O	2:H:11:LEU:HD23	2.14	0.47
2:H:57:PRO:O	2:H:59:GLU:N	2.47	0.47
2:H:164:GLY:O	2:H:166:THR:N	2.45	0.47
2:H:460:TYR:HD2	2:H:465:GLY:HA3	1.79	0.47
2:H:618:UNK:C	2:H:620:UNK:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:681:UNK:O	2:H:684:UNK:N	2.47	0.47
2:H:1336:UNK:O	2:H:1340:UNK:CB	2.62	0.47
2:H:1378:UNK:O	2:H:1379:UNK:CB	2.62	0.47
1:A:170:UNK:O	1:A:171:UNK:CB	2.62	0.47
1:A:565:UNK:C	1:A:567:UNK:N	2.74	0.47
1:A:829:ASN:HB3	1:A:832:THR:HG21	1.95	0.47
1:A:860:ASN:H	1:A:861:GLN:HE21	1.62	0.47
1:A:1051:VAL:O	1:A:1055:TRP:N	2.47	0.47
1:A:1119:LYS:HG2	1:A:1122:ILE:HG12	1.95	0.47
1:A:1265:PHE:CG	1:A:1265:PHE:O	2.67	0.47
1:A:1316:VAL:HG13	1:A:1317:GLU:N	2.29	0.47
1:A:1519:ILE:HG12	1:A:1521:PRO:HD2	1.96	0.47
1:A:1562:LYS:C	1:A:1564:LEU:N	2.67	0.47
1:A:1665:ILE:HD12	1:A:1669:ARG:HB2	1.95	0.47
1:A:1722:VAL:HA	1:A:1731:LEU:HA	1.96	0.47
1:A:1735:SER:C	1:A:1737:ASN:H	2.16	0.47
2:B:56:THR:N	2:B:57:PRO:HD3	2.29	0.47
2:B:240:LEU:HA	2:B:243:VAL:HG21	1.94	0.47
2:B:461:ASP:HB3	2:B:463:PHE:H	1.79	0.47
2:B:667:UNK:HA	2:B:690:UNK:CB	2.44	0.47
2:B:1335:UNK:C	2:B:1337:UNK:N	2.76	0.47
2:B:1706:ILE:CD1	2:B:1783:LEU:HD12	2.43	0.47
2:B:1772:SER:C	2:B:1774:THR:H	2.17	0.47
2:B:1809:LEU:C	2:B:1811:GLU:N	2.67	0.47
2:B:1819:ALA:O	2:B:1820:ASP:O	2.32	0.47
1:D:495:UNK:O	1:D:497:UNK:N	2.47	0.47
1:D:563:UNK:O	1:D:566:UNK:N	2.47	0.47
1:D:1028:GLY:O	1:D:1030:TRP:N	2.47	0.47
1:D:1186:ALA:HB1	1:D:1349:THR:HG21	1.95	0.47
1:D:1193:TRP:CZ2	1:D:1380:GLN:CB	2.86	0.47
1:D:1200:ILE:HG13	1:D:1201:SER:N	2.29	0.47
1:D:1641:ILE:HD11	1:D:1653:ALA:O	2.14	0.47
2:E:213:LEU:O	2:E:213:LEU:HG	2.14	0.47
2:E:234:ILE:HG12	2:E:307:GLY:HA2	1.96	0.47
2:E:278:VAL:HB	2:E:303:LEU:HD21	1.97	0.47
2:E:528:ILE:CG2	2:E:529:VAL:N	2.76	0.47
2:E:1058:UNK:C	2:E:1060:UNK:N	2.76	0.47
2:E:1215:UNK:O	2:E:1226:UNK:CB	2.63	0.47
2:E:1445:UNK:O	2:E:1447:UNK:N	2.47	0.47
2:E:1772:SER:C	2:E:1774:THR:N	2.68	0.47
1:G:523:UNK:C	1:G:525:UNK:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:610:UNK:CB	1:G:873:ARG:HH21	2.28	0.47
1:G:622:UNK:O	1:G:626:UNK:N	2.47	0.47
1:G:680:ILE:HD11	1:G:703:VAL:CG1	2.44	0.47
1:G:1316:VAL:CG1	1:G:1317:GLU:N	2.77	0.47
1:G:1408:ALA:O	1:G:1409:THR:CG2	2.55	0.47
1:G:1493:ILE:CG1	1:G:1494:HIS:N	2.76	0.47
1:G:1698:PHE:O	1:G:1699:VAL:HG13	2.13	0.47
2:H:41:LEU:CD2	2:H:46:GLU:HA	2.33	0.47
2:H:1678:MET:O	2:H:1679:ASP:C	2.52	0.47
2:H:1687:ALA:O	2:H:1690:VAL:HB	2.15	0.47
2:H:1718:THR:OG1	2:H:1719:ILE:N	2.46	0.47
2:H:1753:LYS:O	2:H:1754:GLU:CB	2.62	0.47
1:A:637:UNK:O	1:A:638:UNK:CB	2.61	0.47
1:A:666:UNK:O	1:A:669:UNK:O	2.31	0.47
1:A:684:GLY:HA3	1:A:718:TYR:OH	2.14	0.47
1:A:1378:GLU:HA	1:A:1583:HIS:C	2.33	0.47
1:A:1471:LYS:O	1:A:1474:ALA:CB	2.62	0.47
2:B:248:HIS:ND1	2:B:529:VAL:HG11	2.29	0.47
2:B:737:UNK:C	2:B:739:UNK:N	2.75	0.47
2:B:928:UNK:O	2:B:930:UNK:N	2.47	0.47
2:B:1718:THR:OG1	2:B:1719:ILE:N	2.46	0.47
2:B:1903:ASP:O	2:B:1906:ALA:N	2.47	0.47
1:D:527:UNK:C	1:D:529:UNK:N	2.75	0.47
1:D:647:UNK:O	1:D:648:UNK:O	2.32	0.47
1:D:864:VAL:CG1	1:D:865:CYS:H	2.26	0.47
1:D:904:ASN:HB3	1:D:926:LEU:HD13	1.96	0.47
1:D:957:VAL:O	1:D:958:SER:C	2.51	0.47
1:D:1082:GLU:C	1:D:1085:ASP:OD1	2.53	0.47
1:D:1304:ALA:O	1:D:1305:CYS:HB3	2.14	0.47
1:D:1625:LEU:O	1:D:1626:TYR:HB3	2.13	0.47
1:D:1640:SER:CB	1:D:1654:ILE:HB	2.42	0.47
1:D:1698:PHE:O	1:D:1699:VAL:HG13	2.14	0.47
2:E:149:VAL:HG21	2:E:156:LEU:HB2	1.95	0.47
2:E:1246:UNK:O	2:E:1247:UNK:C	2.62	0.47
2:E:1476:UNK:HA	2:E:1486:UNK:CB	2.43	0.47
2:E:1764:PHE:HD1	2:E:1776:PHE:CE1	2.32	0.47
1:G:170:UNK:O	1:G:171:UNK:CB	2.62	0.47
1:G:824:LEU:O	1:G:826:MET:HG2	2.15	0.47
1:G:957:VAL:O	1:G:958:SER:C	2.53	0.47
1:G:1127:VAL:CG2	1:G:1180:ARG:HG3	2.44	0.47
1:G:1139:GLU:OE2	1:G:1166:LYS:O	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1151:LYS:O	1:G:1152:VAL:O	2.31	0.47
1:G:1288:ASN:C	1:G:1290:LEU:H	2.16	0.47
1:G:1290:LEU:HB3	1:G:1291:LEU:HD13	1.96	0.47
1:G:1379:ALA:O	1:G:1380:GLN:C	2.53	0.47
1:G:1538:VAL:O	1:G:1539:ALA:CB	2.63	0.47
1:G:1652:GLN:CD	1:G:1653:ALA:N	2.68	0.47
2:H:61:VAL:C	2:H:63:LYS:H	2.17	0.47
2:H:67:TYR:O	2:H:69:SER:N	2.46	0.47
2:H:149:VAL:HG21	2:H:156:LEU:HB2	1.95	0.47
2:H:408:PRO:O	2:H:409:PHE:C	2.53	0.47
2:H:1177:UNK:O	2:H:1178:UNK:CB	2.61	0.47
2:H:1304:UNK:O	2:H:1305:UNK:O	2.32	0.47
2:H:1753:LYS:O	2:H:1754:GLU:HB3	2.15	0.47
2:H:1774:THR:HG22	2:H:1774:THR:O	2.14	0.47
1:A:782:GLU:O	1:A:784:ILE:HG22	2.14	0.47
1:A:1055:TRP:CH2	1:A:1198:TYR:CD1	3.00	0.47
1:A:1103:ILE:O	1:A:1106:ILE:HG13	2.14	0.47
1:A:1160:THR:HG23	1:A:1160:THR:O	2.14	0.47
1:A:1189:ILE:HG23	1:A:1377:MET:CE	2.44	0.47
1:A:1328:ILE:O	1:A:1328:ILE:CG1	2.61	0.47
1:A:1706:TYR:N	1:A:1706:TYR:HD1	2.10	0.47
2:B:158:ALA:O	2:B:270:ALA:HA	2.14	0.47
2:B:160:PHE:CZ	2:B:283:ILE:HD12	2.49	0.47
2:B:161:GLY:CA	2:B:512:LEU:HD12	2.45	0.47
2:B:234:ILE:CD1	2:B:310:CYS:HB2	2.44	0.47
2:B:272:GLY:HA3	2:B:276:GLY:C	2.35	0.47
2:B:527:VAL:HG11	2:B:544:LYS:HB2	1.97	0.47
2:B:1045:UNK:C	2:B:1047:UNK:N	2.78	0.47
2:B:1587:UNK:O	2:B:1588:UNK:C	2.61	0.47
2:B:1752:PHE:O	2:B:1755:ILE:HD11	2.14	0.47
1:D:426:UNK:O	1:D:427:UNK:C	2.62	0.47
1:D:917:CYS:SG	1:D:922:VAL:HG21	2.55	0.47
1:D:1010:GLU:OE1	1:D:1013:LEU:HD11	2.15	0.47
1:D:1094:GLU:O	1:D:1095:THR:C	2.51	0.47
1:D:1100:HIS:C	1:D:1102:GLY:N	2.66	0.47
1:D:1108:PRO:HB3	1:D:1362:PRO:HB2	1.96	0.47
1:D:1142:GLU:C	1:D:1144:PHE:N	2.65	0.47
1:D:1208:VAL:HA	1:D:1277:GLU:OE1	2.14	0.47
1:D:1290:LEU:HA	1:D:1701:LYS:CD	2.45	0.47
1:D:1308:SER:OG	1:D:1590:ALA:N	2.38	0.47
2:E:18:HIS:C	2:E:20:LEU:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:56:THR:O	2:E:59:GLU:HG2	2.14	0.47
2:E:234:ILE:CD1	2:E:307:GLY:HA2	2.44	0.47
2:E:248:HIS:CG	2:E:529:VAL:HG11	2.49	0.47
2:E:1248:UNK:O	2:E:1250:UNK:N	2.47	0.47
2:E:1519:UNK:O	2:E:1521:UNK:N	2.48	0.47
2:E:1702:TYR:O	2:E:1703:GLY:O	2.33	0.47
2:E:1792:LEU:HA	2:E:1797:LEU:CD1	2.45	0.47
2:E:1860:GLY:O	2:E:1861:ARG:HB2	2.13	0.47
2:E:1888:ILE:O	2:E:1891:TYR:HE1	1.98	0.47
2:E:1901:ALA:HA	2:E:1905:ARG:HH21	1.79	0.47
2:E:1965:UNK:O	2:E:1967:UNK:N	2.47	0.47
1:G:677:TYR:O	1:G:678:VAL:CG2	2.62	0.47
1:G:854:HIS:O	1:G:855:SER:OG	2.27	0.47
1:G:860:ASN:H	1:G:861:GLN:HE21	1.62	0.47
1:G:1328:ILE:O	1:G:1328:ILE:HG12	2.13	0.47
1:G:1528:THR:O	1:G:1528:THR:HG23	2.14	0.47
1:G:1625:LEU:HD11	1:G:1626:TYR:HD1	1.79	0.47
2:H:19:VAL:O	2:H:23:PRO:HD3	2.14	0.47
2:H:208:VAL:O	2:H:208:VAL:HG12	2.13	0.47
2:H:234:ILE:CD1	2:H:307:GLY:HA2	2.45	0.47
2:H:266:TYR:H	2:H:266:TYR:HD1	1.62	0.47
2:H:375:LYS:HG3	2:H:376:ASN:ND2	2.30	0.47
2:H:442:ASP:HA	2:H:445:LYS:HD2	1.97	0.47
2:H:1455:UNK:O	2:H:1456:UNK:C	2.62	0.47
2:H:1555:UNK:O	2:H:1556:UNK:C	2.62	0.47
2:H:1716:ASN:C	2:H:1718:THR:H	2.17	0.47
2:H:2037:UNK:O	2:H:2041:UNK:CB	2.62	0.47
1:A:389:UNK:C	1:A:391:UNK:N	2.76	0.47
1:A:809:GLN:O	1:A:812:ALA:HB3	2.14	0.47
1:A:1029:PRO:HB3	1:A:1191:THR:O	2.14	0.47
1:A:1142:GLU:CA	1:A:1145:LYS:HB2	2.44	0.47
1:A:1349:THR:O	1:A:1376:PHE:N	2.47	0.47
1:A:1353:LEU:HA	1:A:1356:PHE:HB3	1.97	0.47
1:A:1599:ILE:HG13	1:A:1600:LEU:HD13	1.96	0.47
1:A:1625:LEU:O	1:A:1626:TYR:HB3	2.14	0.47
1:A:1734:ASN:HA	1:A:1737:ASN:O	2.14	0.47
2:B:18:HIS:C	2:B:20:LEU:H	2.18	0.47
2:B:41:LEU:HD22	2:B:46:GLU:C	2.33	0.47
2:B:246:LEU:CD2	2:B:279:THR:HG23	2.44	0.47
2:B:278:VAL:HB	2:B:303:LEU:HD21	1.96	0.47
2:B:373:GLY:CA	2:B:519:ASN:OD1	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:402:LEU:HD13	2:B:405:SER:OG	2.14	0.47
2:B:431:LEU:HD23	2:B:431:LEU:H	1.77	0.47
2:B:1266:UNK:O	2:B:1269:UNK:N	2.47	0.47
2:B:1454:UNK:CB	2:B:1505:UNK:HA	2.45	0.47
2:B:1756:ASN:O	2:B:1757:GLU:C	2.52	0.47
2:B:1860:GLY:O	2:B:1861:ARG:CB	2.62	0.47
2:B:1871:LEU:HD13	2:B:1882:THR:HG22	1.95	0.47
1:D:377:UNK:O	1:D:380:UNK:CB	2.61	0.47
1:D:677:TYR:O	1:D:678:VAL:CG2	2.63	0.47
1:D:930:LEU:C	1:D:932:PHE:H	2.17	0.47
1:D:1151:LYS:CG	1:D:1175:ILE:CD1	2.92	0.47
1:D:1408:ALA:CB	1:D:1651:GLY:C	2.79	0.47
1:D:1445:MET:O	1:D:1446:LYS:C	2.52	0.47
1:D:1544:THR:O	1:D:1545:SER:HB3	2.14	0.47
2:E:162:GLY:C	2:E:164:GLY:N	2.66	0.47
2:E:259:THR:O	2:E:262:GLU:N	2.48	0.47
2:E:461:ASP:HB3	2:E:463:PHE:H	1.79	0.47
2:E:494:THR:O	2:E:495:GLN:C	2.53	0.47
2:E:660:UNK:C	2:E:662:UNK:N	2.77	0.47
2:E:692:UNK:N	2:E:716:UNK:CB	2.77	0.47
2:E:922:UNK:O	2:E:924:UNK:N	2.47	0.47
2:E:1328:UNK:O	2:E:1329:UNK:C	2.61	0.47
2:E:1454:UNK:CB	2:E:1505:UNK:HA	2.45	0.47
2:E:1551:UNK:O	2:E:1553:UNK:N	2.48	0.47
2:E:1672:GLN:HB3	2:E:1781:LEU:HD11	1.97	0.47
2:E:1867:SER:C	2:E:1869:GLU:N	2.66	0.47
2:E:2029:UNK:C	2:E:2031:UNK:N	2.76	0.47
1:G:869:ILE:HG23	1:G:926:LEU:CB	2.36	0.47
1:G:1036:ARG:HE	1:G:1037:TRP:CA	2.27	0.47
1:G:1396:MET:HG2	1:G:1676:LYS:HE2	1.95	0.47
1:G:1396:MET:HG2	1:G:1676:LYS:CE	2.44	0.47
1:G:1448:ARG:O	1:G:1451:GLN:CB	2.62	0.47
1:G:1578:LYS:HE3	1:G:1584:PRO:CB	2.44	0.47
2:H:429:SER:HB2	2:H:431:LEU:HD23	1.97	0.47
2:H:467:ASP:OD1	2:H:467:ASP:O	2.31	0.47
2:H:972:UNK:C	2:H:974:UNK:N	2.75	0.47
2:H:1252:UNK:O	2:H:1253:UNK:O	2.33	0.47
2:H:1606:UNK:O	2:H:1608:UNK:N	2.48	0.47
2:H:1633:UNK:O	2:H:1634:UNK:CB	2.62	0.47
2:H:1753:LYS:HG3	2:H:1754:GLU:N	2.29	0.47
3:I:60:UNK:O	3:I:61:UNK:C	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:779:ILE:CD1	1:A:837:GLY:HA3	2.45	0.47
1:A:839:TYR:CE1	1:A:843:LYS:CE	2.98	0.47
1:A:1035:THR:CG2	1:A:1053:MET:SD	2.99	0.47
1:A:1106:ILE:HA	1:A:1192:GLY:CA	2.42	0.47
1:A:1107:GLU:CD	1:A:1108:PRO:CD	2.81	0.47
1:A:1127:VAL:CG2	1:A:1180:ARG:HG3	2.45	0.47
1:A:1169:LYS:CG	1:A:1170:GLY:H	2.22	0.47
1:A:1200:ILE:HG13	1:A:1201:SER:N	2.30	0.47
1:A:1223:PHE:O	1:A:1228:ILE:N	2.44	0.47
1:A:1274:ILE:HG23	1:A:1275:LEU:N	2.29	0.47
1:A:1303:GLY:HA3	1:A:1649:LYS:HD2	1.89	0.47
1:A:1394:LEU:HD23	1:A:1673:TYR:CD1	2.50	0.47
1:A:1656:VAL:CG2	1:A:1657:HIS:N	2.77	0.47
2:B:131:ILE:CD1	2:B:182:VAL:HG13	2.42	0.47
2:B:215:ILE:O	2:B:215:ILE:HG22	2.14	0.47
2:B:395:LYS:O	2:B:396:ALA:CB	2.62	0.47
2:B:1314:UNK:O	2:B:1315:UNK:CB	2.63	0.47
2:B:1329:UNK:O	2:B:1333:UNK:N	2.47	0.47
2:B:1716:ASN:C	2:B:1718:THR:H	2.18	0.47
2:B:1809:LEU:C	2:B:1811:GLU:H	2.18	0.47
2:B:1995:UNK:C	2:B:1996:UNK:O	2.62	0.47
1:D:666:UNK:O	1:D:669:UNK:O	2.32	0.47
1:D:745:VAL:O	1:D:747:ALA:N	2.48	0.47
1:D:1156:GLU:HG2	1:D:1169:LYS:C	2.35	0.47
1:D:1179:LEU:HG	1:D:1181:PHE:CE1	2.50	0.47
1:D:1308:SER:OG	1:D:1589:GLY:HA3	2.15	0.47
1:D:1554:SER:CB	1:D:1623:TYR:OH	2.61	0.47
1:D:1583:HIS:HE2	1:D:1588:ALA:HA	1.80	0.47
1:D:1701:LYS:O	1:D:1702:GLU:O	2.32	0.47
2:E:213:LEU:O	2:E:215:ILE:N	2.43	0.47
2:E:271:THR:HG23	2:E:460:TYR:O	2.15	0.47
2:E:361:PRO:O	2:E:365:GLN:HG3	2.14	0.47
2:E:467:ASP:OD1	2:E:467:ASP:O	2.32	0.47
2:E:539:ASP:O	2:E:540:ASP:C	2.51	0.47
2:E:765:UNK:O	2:E:766:UNK:C	2.63	0.47
2:E:972:UNK:C	2:E:974:UNK:N	2.74	0.47
2:E:1056:UNK:O	2:E:1057:UNK:C	2.62	0.47
2:E:1557:UNK:O	2:E:1560:UNK:N	2.47	0.47
2:E:1606:UNK:O	2:E:1608:UNK:N	2.48	0.47
2:E:1678:MET:HE2	2:E:1678:MET:CA	2.44	0.47
2:E:1718:THR:OG1	2:E:1719:ILE:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1764:PHE:O	2:E:1765:ARG:CB	2.61	0.47
3:F:24:UNK:C	3:F:26:UNK:N	2.75	0.47
3:F:64:UNK:O	3:F:65:UNK:O	2.31	0.47
1:G:378:UNK:C	1:G:380:UNK:N	2.75	0.47
1:G:446:UNK:CB	1:G:1619:GLU:OE2	2.62	0.47
1:G:711:SER:C	1:G:713:GLN:N	2.66	0.47
1:G:773:ALA:O	1:G:774:ILE:HB	2.13	0.47
1:G:1176:PRO:C	1:G:1177:LYS:HG3	2.35	0.47
1:G:1189:ILE:HG21	1:G:1377:MET:CB	2.09	0.47
1:G:1325:ARG:O	1:G:1326:ILE:HB	2.15	0.47
1:G:1418:VAL:CG1	1:G:1419:PRO:HA	2.44	0.47
1:G:1659:ASP:CA	1:G:1662:TYR:HD2	2.22	0.47
1:G:1661:LEU:O	1:G:1661:LEU:CD2	2.58	0.47
1:G:1733:PHE:CD1	1:G:1733:PHE:N	2.82	0.47
2:H:41:LEU:N	2:H:42:PRO:CD	2.76	0.47
2:H:106:ALA:C	2:H:108:LEU:H	2.18	0.47
2:H:173:LEU:HD23	2:H:173:LEU:C	2.34	0.47
2:H:272:GLY:HA3	2:H:276:GLY:C	2.35	0.47
2:H:273:HIS:O	2:H:276:GLY:N	2.46	0.47
2:H:408:PRO:CG	2:H:409:PHE:H	2.26	0.47
2:H:1638:UNK:N	2:H:1655:UNK:O	2.47	0.47
2:H:1792:LEU:HA	2:H:1797:LEU:CD1	2.44	0.47
1:A:396:UNK:O	1:A:398:UNK:N	2.47	0.47
1:A:743:GLN:O	1:A:744:ASP:C	2.53	0.47
1:A:877:LEU:O	1:A:878:MET:CB	2.47	0.47
1:A:910:THR:HG22	1:A:913:VAL:CG2	2.44	0.47
1:A:1067:LEU:CD2	1:A:1074:GLY:H	2.27	0.47
1:A:1144:PHE:O	1:A:1147:GLN:N	2.48	0.47
1:A:1191:THR:OG1	1:A:1192:GLY:N	2.47	0.47
1:A:1254:VAL:CG2	1:A:1255:SER:H	2.08	0.47
1:A:1379:ALA:N	1:A:1583:HIS:HB3	2.17	0.47
1:A:1413:LYS:HD2	1:A:1425:ILE:HD12	1.97	0.47
1:A:1418:VAL:HG11	1:A:1647:GLY:N	2.29	0.47
1:A:1528:THR:O	1:A:1528:THR:HG23	2.14	0.47
1:A:1553:GLU:C	1:A:1555:ALA:N	2.67	0.47
1:A:1578:LYS:HE3	1:A:1584:PRO:CB	2.43	0.47
2:B:70:SER:O	2:B:76:LYS:HB2	2.15	0.47
2:B:367:GLU:HB2	2:B:430:HIS:ND1	2.30	0.47
2:B:408:PRO:CA	2:B:412:ARG:HB2	2.44	0.47
2:B:408:PRO:O	2:B:409:PHE:C	2.53	0.47
2:B:467:ASP:OD1	2:B:467:ASP:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:517:HIS:CD2	2:B:526:ARG:HH21	2.32	0.47
2:B:917:UNK:O	2:B:919:UNK:N	2.48	0.47
2:B:1361:UNK:O	2:B:1362:UNK:CB	2.60	0.47
2:B:1632:UNK:O	2:B:1633:UNK:CB	2.63	0.47
2:B:1764:PHE:HD1	2:B:1776:PHE:CE1	2.32	0.47
2:B:1814:ALA:HB1	2:B:1818:LEU:HD12	1.95	0.47
2:B:1869:GLU:O	2:B:1873:TYR:N	2.47	0.47
2:B:1878:VAL:HG23	2:B:1879:GLY:N	2.26	0.47
2:B:1878:VAL:CG1	2:B:1898:TYR:HE1	2.28	0.47
2:B:1898:TYR:CD2	2:B:1936:VAL:HG23	2.49	0.47
2:B:1965:UNK:O	2:B:1967:UNK:N	2.48	0.47
3:C:35:UNK:C	3:C:37:UNK:N	2.77	0.47
1:D:388:UNK:O	1:D:391:UNK:N	2.47	0.47
1:D:389:UNK:C	1:D:391:UNK:N	2.75	0.47
1:D:396:UNK:O	1:D:398:UNK:N	2.47	0.47
1:D:404:UNK:O	1:D:407:UNK:N	2.48	0.47
1:D:430:UNK:C	1:D:431:UNK:O	2.62	0.47
1:D:670:UNK:O	1:D:671:VAL:HG23	2.15	0.47
1:D:689:GLY:O	1:D:692:VAL:HB	2.15	0.47
1:D:752:ILE:O	1:D:761:LEU:O	2.32	0.47
1:D:785:ASP:O	1:D:786:SER:OG	2.26	0.47
1:D:860:ASN:H	1:D:861:GLN:HE21	1.61	0.47
1:D:909:LEU:HG	1:D:909:LEU:O	2.15	0.47
1:D:910:THR:O	1:D:911:PRO:C	2.50	0.47
1:D:998:TYR:CD1	1:D:999:LYS:HG2	2.49	0.47
1:D:1067:LEU:HD23	1:D:1074:GLY:N	2.29	0.47
1:D:1089:VAL:H	1:D:1093:TYR:HD2	1.62	0.47
1:D:1107:GLU:OE1	1:D:1190:PRO:HA	2.15	0.47
1:D:1194:ASN:O	1:D:1195:ALA:CB	2.63	0.47
1:D:1233:GLU:O	1:D:1233:GLU:HG2	2.15	0.47
1:D:1275:LEU:C	1:D:1275:LEU:HD13	2.34	0.47
1:D:1288:ASN:C	1:D:1290:LEU:N	2.68	0.47
1:D:1308:SER:HB2	1:D:1590:ALA:CB	2.44	0.47
1:D:1339:GLY:O	1:D:1340:SER:C	2.51	0.47
1:D:1367:ARG:NH1	1:D:1372:THR:HG21	2.30	0.47
1:D:1379:ALA:O	1:D:1380:GLN:C	2.50	0.47
1:D:1413:LYS:HD2	1:D:1425:ILE:HD12	1.96	0.47
1:D:1459:ILE:HG22	1:D:1500:GLN:OE1	2.14	0.47
1:D:1487:LEU:HA	1:D:1490:THR:CG2	2.45	0.47
1:D:1544:THR:HG22	1:D:1584:PRO:HG3	1.96	0.47
1:D:1605:ILE:CG1	1:D:1606:PRO:HA	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:10:THR:O	2:E:11:LEU:HD23	2.15	0.47
2:E:56:THR:N	2:E:57:PRO:HD3	2.29	0.47
2:E:163:GLN:HB3	2:E:423:VAL:CG2	2.44	0.47
2:E:261:GLY:HA2	2:E:264:ARG:CG	2.44	0.47
2:E:272:GLY:HA3	2:E:276:GLY:C	2.34	0.47
2:E:408:PRO:O	2:E:409:PHE:C	2.53	0.47
2:E:562:UNK:O	2:E:563:UNK:C	2.63	0.47
2:E:595:UNK:O	2:E:596:UNK:CB	2.62	0.47
2:E:1196:UNK:O	2:E:1197:UNK:O	2.32	0.47
2:E:1314:UNK:O	2:E:1315:UNK:CB	2.62	0.47
2:E:1357:UNK:CB	2:E:1406:UNK:N	2.78	0.47
2:E:1445:UNK:C	2:E:1447:UNK:N	2.78	0.47
2:E:1656:UNK:O	2:E:1657:UNK:CB	2.63	0.47
2:E:1698:PHE:O	2:E:1700:ASP:N	2.48	0.47
2:E:1706:ILE:O	2:E:1707:LEU:C	2.52	0.47
2:E:1752:PHE:O	2:E:1755:ILE:HD11	2.15	0.47
1:G:430:UNK:C	1:G:431:UNK:O	2.60	0.47
1:G:449:UNK:O	1:G:451:UNK:N	2.48	0.47
1:G:541:UNK:C	1:G:543:UNK:N	2.77	0.47
1:G:718:TYR:HD1	1:G:718:TYR:H	1.63	0.47
1:G:796:LEU:O	1:G:799:ILE:HB	2.14	0.47
1:G:910:THR:CG2	1:G:913:VAL:CG2	2.93	0.47
1:G:937:LYS:O	1:G:939:PHE:N	2.47	0.47
1:G:1131:LEU:O	1:G:1173:LEU:HD13	2.14	0.47
1:G:1197:THR:HG23	1:G:1197:THR:O	2.14	0.47
1:G:1405:ALA:CB	1:G:1654:ILE:O	2.55	0.47
1:G:1430:ARG:NH1	1:G:1652:GLN:HG3	2.29	0.47
1:G:1433:HIS:HD2	1:G:1519:ILE:HG12	1.80	0.47
1:G:1450:ARG:HG3	1:G:1450:ARG:NH1	2.26	0.47
1:G:1456:GLU:N	1:G:1459:ILE:HG13	2.30	0.47
2:H:41:LEU:HD22	2:H:46:GLU:C	2.35	0.47
2:H:49:ALA:N	2:H:118:LYS:HZ2	2.12	0.47
2:H:186:ASP:O	2:H:188:ILE:N	2.48	0.47
2:H:230:TYR:C	2:H:232:LEU:H	2.17	0.47
2:H:234:ILE:HG12	2:H:307:GLY:HA2	1.97	0.47
2:H:274:SER:C	2:H:276:GLY:H	2.17	0.47
2:H:402:LEU:HD13	2:H:405:SER:OG	2.15	0.47
2:H:568:UNK:C	2:H:570:UNK:N	2.77	0.47
2:H:595:UNK:O	2:H:596:UNK:CB	2.62	0.47
2:H:1742:VAL:HG12	2:H:1744:GLY:H	1.80	0.47
1:A:694:GLN:HB3	1:A:725:TYR:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:718:TYR:H	1:A:718:TYR:HD1	1.63	0.47
1:A:910:THR:CG2	1:A:913:VAL:CG2	2.93	0.47
1:A:1082:GLU:C	1:A:1085:ASP:OD1	2.53	0.47
1:A:1151:LYS:CE	1:A:1175:ILE:HD13	2.41	0.47
1:A:1197:THR:HG23	1:A:1197:THR:O	2.15	0.47
1:A:1513:TYR:H	1:A:1513:TYR:HD1	1.57	0.47
1:A:1528:THR:C	1:A:1529:TYR:CD1	2.88	0.47
1:A:1782:UNK:C	1:A:1784:UNK:N	2.72	0.47
2:B:197:GLU:C	2:B:199:ILE:N	2.66	0.47
2:B:462:THR:HG21	2:B:482:CYS:O	2.15	0.47
2:B:1177:UNK:O	2:B:1178:UNK:CB	2.63	0.47
2:B:1256:UNK:O	2:B:1258:UNK:N	2.48	0.47
2:B:1260:UNK:O	2:B:1261:UNK:C	2.62	0.47
2:B:1334:UNK:C	2:B:1335:UNK:O	2.62	0.47
2:B:1698:PHE:O	2:B:1700:ASP:N	2.47	0.47
2:B:1731:GLU:HA	2:B:1735:ALA:CB	2.45	0.47
2:B:1932:SER:C	2:B:1934:GLU:H	2.16	0.47
2:B:1972:UNK:C	2:B:1974:UNK:N	2.76	0.47
1:D:401:UNK:C	1:D:403:UNK:N	2.77	0.47
1:D:717:TYR:CD2	1:D:718:TYR:CE1	2.98	0.47
1:D:824:LEU:O	1:D:826:MET:HG2	2.15	0.47
1:D:937:LYS:O	1:D:939:PHE:N	2.48	0.47
1:D:1000:GLN:C	1:D:1002:LYS:H	2.16	0.47
1:D:1039:MET:HE3	1:D:1042:PHE:O	2.14	0.47
1:D:1046:SER:O	1:D:1047:LEU:C	2.53	0.47
1:D:1065:GLY:C	1:D:1067:LEU:N	2.62	0.47
1:D:1142:GLU:N	1:D:1144:PHE:HE1	2.12	0.47
1:D:1302:VAL:CG2	1:D:1303:GLY:H	2.17	0.47
1:D:1398:VAL:CG1	1:D:1399:PRO:HA	2.20	0.47
2:E:41:LEU:HD22	2:E:46:GLU:C	2.34	0.47
2:E:61:VAL:C	2:E:63:LYS:H	2.16	0.47
2:E:234:ILE:CG1	2:E:307:GLY:HA2	2.45	0.47
2:E:1455:UNK:O	2:E:1456:UNK:C	2.62	0.47
3:F:53:UNK:O	3:F:56:UNK:N	2.48	0.47
1:G:624:UNK:O	1:G:625:UNK:C	2.63	0.47
1:G:631:UNK:O	1:G:632:UNK:C	2.61	0.47
1:G:790:PHE:O	1:G:791:ALA:C	2.53	0.47
1:G:935:GLU:O	1:G:937:LYS:N	2.48	0.47
1:G:1139:GLU:HG2	1:G:1140:THR:H	1.79	0.47
1:G:1142:GLU:C	1:G:1144:PHE:N	2.66	0.47
1:G:1208:VAL:CG2	1:G:1212:THR:HB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1316:VAL:HG13	1:G:1317:GLU:N	2.29	0.47
1:G:1329:VAL:CG1	1:G:1330:GLY:N	2.64	0.47
1:G:1396:MET:O	1:G:1397:GLY:O	2.33	0.47
1:G:1615:ASP:OD1	1:G:1618:LEU:HG	2.14	0.47
1:G:1711:GLU:O	1:G:1712:GLU:C	2.53	0.47
1:G:1721:ARG:O	1:G:1731:LEU:HD23	2.15	0.47
2:H:18:HIS:C	2:H:20:LEU:H	2.18	0.47
2:H:60:LEU:HD12	2:H:60:LEU:N	2.29	0.47
2:H:807:UNK:N	2:H:1034:UNK:CB	2.78	0.47
2:H:922:UNK:O	2:H:924:UNK:N	2.48	0.47
2:H:1058:UNK:HA	2:H:1061:UNK:CB	2.45	0.47
2:H:1162:UNK:C	2:H:1164:UNK:N	2.77	0.47
2:H:1534:UNK:HA	2:H:1630:UNK:O	2.15	0.47
2:H:1672:GLN:HB3	2:H:1781:LEU:HD11	1.96	0.47
2:H:1715:VAL:HA	2:H:1718:THR:CG2	2.44	0.47
1:A:444:UNK:CB	1:A:1613:ASN:OD1	2.62	0.47
1:A:719:GLN:OE1	1:A:1611:ALA:HB1	2.15	0.47
1:A:745:VAL:O	1:A:747:ALA:N	2.48	0.47
1:A:913:VAL:O	1:A:916:LEU:HB3	2.15	0.47
1:A:1025:ALA:CB	1:A:1221:GLU:HB3	2.44	0.47
1:A:1302:VAL:CG2	1:A:1649:LYS:HE3	2.36	0.47
1:A:1308:SER:HB2	1:A:1590:ALA:CB	2.42	0.47
1:A:1423:LYS:CB	1:A:1552:ASN:ND2	2.70	0.47
1:A:1504:ALA:O	1:A:1505:GLN:C	2.53	0.47
1:A:1565:GLY:O	1:A:1566:ARG:O	2.33	0.47
1:A:1740:SER:O	1:A:1742:ASP:N	2.48	0.47
2:B:38:ASN:C	2:B:38:ASN:OD1	2.52	0.47
2:B:51:ASP:O	2:B:52:ASP:C	2.53	0.47
2:B:56:THR:O	2:B:59:GLU:HG2	2.15	0.47
2:B:606:UNK:O	2:B:607:UNK:CB	2.63	0.47
2:B:647:UNK:HA	2:B:650:UNK:CB	2.44	0.47
2:B:649:UNK:C	2:B:651:UNK:N	2.77	0.47
2:B:652:UNK:O	2:B:653:UNK:CB	2.63	0.47
2:B:681:UNK:O	2:B:684:UNK:N	2.48	0.47
2:B:926:UNK:O	2:B:927:UNK:C	2.63	0.47
2:B:1482:UNK:O	2:B:1483:UNK:CB	2.63	0.47
2:B:1753:LYS:HG3	2:B:1754:GLU:N	2.30	0.47
3:C:53:UNK:O	3:C:56:UNK:N	2.48	0.47
3:C:59:UNK:O	3:C:60:UNK:C	2.62	0.47
1:D:1062:TYR:HB2	1:D:1077:ASP:HA	1.96	0.47
1:D:1087:LYS:HE3	1:D:1089:VAL:CG1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1087:LYS:O	1:D:1088:ASP:HB2	2.15	0.47
1:D:1237:TYR:OH	1:D:1396:MET:CB	2.63	0.47
1:D:1258:ARG:HH11	1:D:1258:ARG:CG	2.26	0.47
1:D:1321:SER:O	1:D:1323:LYS:N	2.43	0.47
1:D:1366:SER:HB3	1:D:1579:PHE:HD1	1.79	0.47
1:D:1661:LEU:O	1:D:1661:LEU:CD2	2.59	0.47
1:D:1681:GLU:O	1:D:1682:LYS:CB	2.63	0.47
2:E:38:ASN:HA	2:E:41:LEU:HG	1.97	0.47
2:E:46:GLU:O	2:E:47:GLY:C	2.52	0.47
2:E:199:ILE:CG2	2:E:200:ARG:H	2.18	0.47
2:E:742:UNK:O	2:E:745:UNK:N	2.48	0.47
2:E:748:UNK:O	2:E:749:UNK:CB	2.62	0.47
2:E:1157:UNK:CB	2:E:1164:UNK:O	2.62	0.47
1:G:917:CYS:HA	1:G:922:VAL:HG23	1.96	0.47
1:G:1031:GLY:N	1:G:1035:THR:HG21	2.30	0.47
1:G:1112:ASN:ND2	1:G:1119:LYS:HA	2.30	0.47
1:G:1289:MET:H	1:G:1289:MET:HG2	1.52	0.47
1:G:1487:LEU:HA	1:G:1490:THR:CG2	2.45	0.47
1:G:1665:ILE:HG22	1:G:1667:GLU:H	1.80	0.47
2:H:38:ASN:C	2:H:38:ASN:OD1	2.54	0.47
2:H:253:ALA:O	2:H:255:LEU:N	2.48	0.47
2:H:278:VAL:HB	2:H:303:LEU:HD21	1.97	0.47
2:H:395:LYS:O	2:H:396:ALA:CB	2.63	0.47
2:H:1205:UNK:CB	2:H:1212:UNK:N	2.77	0.47
2:H:1329:UNK:O	2:H:1333:UNK:N	2.47	0.47
2:H:1445:UNK:O	2:H:1448:UNK:N	2.47	0.47
2:H:1730:ARG:C	2:H:1732:ASN:N	2.66	0.47
2:H:1830:VAL:O	2:H:1831:VAL:C	2.52	0.47
1:A:796:LEU:HA	1:A:799:ILE:HD12	1.97	0.47
1:A:824:LEU:HD13	1:A:846:LEU:HD22	1.97	0.47
1:A:833:PHE:HD1	1:A:833:PHE:H	1.63	0.47
1:A:1010:GLU:OE1	1:A:1013:LEU:HD11	2.15	0.47
1:A:1036:ARG:HH21	1:A:1040:GLU:CB	2.27	0.47
1:A:1087:LYS:O	1:A:1088:ASP:HB2	2.15	0.47
1:A:1141:ALA:HA	1:A:1144:PHE:CD1	2.50	0.47
1:A:1221:GLU:HA	1:A:1224:ILE:CG2	2.45	0.47
1:A:1264:ARG:C	1:A:1266:LYS:H	2.17	0.47
1:A:1682:LYS:HA	1:A:1685:TYR:HB3	1.97	0.47
2:B:253:ALA:O	2:B:256:LEU:N	2.47	0.47
2:B:475:ILE:O	2:B:479:ILE:HG12	2.14	0.47
2:B:618:UNK:C	2:B:620:UNK:N	2.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:898:UNK:C	2:B:900:UNK:N	2.77	0.47
2:B:1151:UNK:C	2:B:1153:UNK:N	2.78	0.47
2:B:1295:UNK:O	2:B:1298:UNK:N	2.48	0.47
2:B:1698:PHE:CE1	2:B:1828:VAL:HG21	2.48	0.47
2:B:1877:ARG:HB3	2:B:1929:LYS:HZ3	1.79	0.47
1:D:779:ILE:CD1	1:D:837:GLY:HA3	2.45	0.47
1:D:1067:LEU:HD21	1:D:1073:THR:C	2.36	0.47
1:D:1232:TYR:HE1	1:D:1705:PRO:CD	2.26	0.47
1:D:1254:VAL:C	1:D:1256:ALA:N	2.50	0.47
1:D:1258:ARG:HG2	1:D:1258:ARG:NH1	2.27	0.47
1:D:1741:LYS:HZ1	1:D:1744:TYR:HD2	1.63	0.47
2:E:19:VAL:O	2:E:23:PRO:HD3	2.15	0.47
2:E:347:GLU:HA	2:E:350:GLN:HB3	1.96	0.47
2:E:390:ASN:O	2:E:393:LEU:HB3	2.14	0.47
2:E:408:PRO:CA	2:E:412:ARG:HB2	2.45	0.47
2:E:974:UNK:O	2:E:978:UNK:N	2.48	0.47
2:E:1332:UNK:O	2:E:1333:UNK:C	2.63	0.47
2:E:1672:GLN:HB2	2:E:1676:MET:HE1	1.97	0.47
2:E:2019:UNK:O	2:E:2020:UNK:C	2.63	0.47
2:E:2033:UNK:C	2:E:2035:UNK:N	2.73	0.47
1:G:670:UNK:O	1:G:671:VAL:HG23	2.15	0.47
1:G:873:ARG:HG3	1:G:874:GLY:N	2.28	0.47
1:G:929:GLY:O	1:G:930:LEU:C	2.53	0.47
1:G:1190:PRO:O	1:G:1191:THR:CG2	2.63	0.47
1:G:1475:GLU:O	1:G:1478:PRO:CD	2.63	0.47
1:G:1550:ASP:O	1:G:1551:LYS:O	2.32	0.47
2:H:241:ILE:HA	2:H:244:ILE:HD12	1.97	0.47
2:H:253:ALA:O	2:H:254:LYS:C	2.52	0.47
2:H:597:UNK:C	2:H:599:UNK:N	2.78	0.47
2:H:652:UNK:O	2:H:653:UNK:CB	2.62	0.47
2:H:1055:UNK:O	2:H:1059:UNK:N	2.47	0.47
2:H:1861:ARG:O	2:H:1862:VAL:HB	2.14	0.47
2:H:1879:GLY:O	2:H:1880:LYS:HB3	2.13	0.47
3:I:53:UNK:O	3:I:56:UNK:N	2.48	0.47
1:A:679:LEU:HD21	1:A:802:MET:CE	2.40	0.46
1:A:711:SER:O	1:A:714:VAL:N	2.49	0.46
1:A:752:ILE:O	1:A:761:LEU:O	2.33	0.46
1:A:753:TYR:CG	1:A:809:GLN:HG2	2.50	0.46
1:A:758:ASN:N	1:A:758:ASN:ND2	2.63	0.46
1:A:903:PHE:C	1:A:906:LEU:HB3	2.36	0.46
1:A:917:CYS:SG	1:A:922:VAL:HG21	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:988:ILE:O	1:A:990:LEU:N	2.48	0.46
1:A:1107:GLU:OE1	1:A:1190:PRO:HA	2.15	0.46
1:A:1379:ALA:O	1:A:1380:GLN:C	2.52	0.46
1:A:1475:GLU:O	1:A:1478:PRO:CD	2.63	0.46
1:A:1544:THR:HG22	1:A:1584:PRO:HG3	1.96	0.46
1:A:1735:SER:O	1:A:1737:ASN:N	2.48	0.46
2:B:261:GLY:HA2	2:B:264:ARG:NE	2.29	0.46
2:B:1266:UNK:O	2:B:1267:UNK:C	2.62	0.46
2:B:1445:UNK:C	2:B:1447:UNK:N	2.77	0.46
2:B:1445:UNK:O	2:B:1447:UNK:N	2.48	0.46
2:B:1960:UNK:O	2:B:1961:UNK:C	2.62	0.46
1:D:455:UNK:O	1:D:458:UNK:N	2.49	0.46
1:D:737:PHE:CZ	1:D:739:GLN:HA	2.50	0.46
1:D:753:TYR:CG	1:D:809:GLN:HG2	2.51	0.46
1:D:1156:GLU:CG	1:D:1169:LYS:HA	2.45	0.46
1:D:1329:VAL:CG1	1:D:1385:GLN:O	2.63	0.46
1:D:1351:ASN:C	1:D:1352:THR:O	2.49	0.46
1:D:1353:LEU:HA	1:D:1356:PHE:HB3	1.97	0.46
1:D:1471:LYS:O	1:D:1474:ALA:CB	2.63	0.46
1:D:1609:ARG:CD	1:D:1611:ALA:HB3	2.45	0.46
1:D:1748:UNK:C	1:D:1750:UNK:N	2.78	0.46
2:E:41:LEU:N	2:E:42:PRO:CD	2.77	0.46
2:E:1672:GLN:HB2	2:E:1676:MET:HE3	1.97	0.46
2:E:1972:UNK:O	2:E:1973:UNK:C	2.63	0.46
2:E:1995:UNK:C	2:E:1996:UNK:O	2.63	0.46
1:G:388:UNK:O	1:G:391:UNK:N	2.48	0.46
1:G:705:VAL:CG2	1:G:732:LEU:HD11	2.46	0.46
1:G:1040:GLU:O	1:G:1040:GLU:HG3	2.15	0.46
1:G:1219:VAL:HG13	1:G:1220:VAL:N	2.30	0.46
1:G:1636:VAL:O	1:G:1637:ARG:CB	2.62	0.46
1:G:1741:LYS:O	1:G:1743:SER:N	2.46	0.46
2:H:148:ALA:O	2:H:150:GLY:N	2.48	0.46
2:H:248:HIS:CG	2:H:529:VAL:HG11	2.49	0.46
2:H:259:THR:H	2:H:262:GLU:HB2	1.80	0.46
2:H:272:GLY:HA3	2:H:277:LEU:HA	1.97	0.46
2:H:346:GLN:O	2:H:347:GLU:HB3	2.15	0.46
2:H:361:PRO:O	2:H:365:GLN:HG3	2.15	0.46
2:H:379:VAL:HG12	2:H:380:SER:N	2.30	0.46
2:H:408:PRO:CA	2:H:412:ARG:HB2	2.44	0.46
2:H:606:UNK:O	2:H:607:UNK:CB	2.63	0.46
2:H:1248:UNK:O	2:H:1250:UNK:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1614:UNK:CB	2:H:1649:UNK:O	2.63	0.46
2:H:1871:LEU:HD13	2:H:1882:THR:CG2	2.44	0.46
3:I:3:UNK:HA	3:I:6:UNK:CB	2.45	0.46
1:A:169:UNK:O	1:A:170:UNK:CB	2.61	0.46
1:A:563:UNK:O	1:A:565:UNK:N	2.48	0.46
1:A:893:VAL:O	1:A:895:THR:N	2.38	0.46
1:A:895:THR:OG1	1:A:928:GLY:HA3	2.15	0.46
1:A:1139:GLU:HG2	1:A:1140:THR:N	2.29	0.46
1:A:1423:LYS:HA	1:A:1552:ASN:OD1	2.14	0.46
1:A:1748:UNK:C	1:A:1750:UNK:N	2.77	0.46
2:B:4:TYR:HD1	2:B:5:SER:N	2.14	0.46
2:B:38:ASN:HA	2:B:41:LEU:HG	1.96	0.46
2:B:60:LEU:HD11	2:B:121:GLU:OE2	2.15	0.46
2:B:122:LEU:O	2:B:125:ASN:HB2	2.15	0.46
2:B:240:LEU:HD12	2:B:240:LEU:N	2.29	0.46
2:B:577:UNK:C	2:B:579:UNK:N	2.74	0.46
2:B:813:UNK:C	2:B:815:UNK:N	2.76	0.46
2:B:862:UNK:O	2:B:863:UNK:C	2.63	0.46
2:B:1332:UNK:O	2:B:1333:UNK:C	2.63	0.46
2:B:1656:UNK:O	2:B:1657:UNK:CB	2.62	0.46
2:B:1737:ILE:HD13	2:B:1738:PHE:N	2.30	0.46
2:B:1782:THR:HG21	2:B:1831:VAL:HG21	1.95	0.46
2:B:1806:GLY:HA3	2:B:1811:GLU:HG2	1.96	0.46
2:B:1807:HIS:O	2:B:1809:LEU:N	2.49	0.46
2:B:2037:UNK:O	2:B:2041:UNK:CB	2.63	0.46
1:D:460:UNK:O	1:D:462:UNK:N	2.48	0.46
1:D:790:PHE:O	1:D:791:ALA:C	2.52	0.46
1:D:929:GLY:C	1:D:931:GLN:N	2.67	0.46
1:D:1454:THR:CG2	1:D:1455:ARG:N	2.61	0.46
2:E:255:LEU:C	2:E:257:GLY:H	2.18	0.46
2:E:432:LEU:HG	2:E:484:ILE:HB	1.97	0.46
2:E:1162:UNK:C	2:E:1164:UNK:N	2.78	0.46
2:E:1260:UNK:O	2:E:1261:UNK:C	2.63	0.46
2:E:1342:UNK:C	2:E:1344:UNK:N	2.77	0.46
2:E:1419:UNK:C	2:E:1421:UNK:N	2.77	0.46
2:E:1753:LYS:O	2:E:1754:GLU:HB3	2.15	0.46
2:E:1809:LEU:C	2:E:1811:GLU:N	2.68	0.46
1:G:643:UNK:C	1:G:645:UNK:N	2.78	0.46
1:G:684:GLY:C	1:G:686:GLY:N	2.67	0.46
1:G:714:VAL:O	1:G:716:ASP:N	2.48	0.46
1:G:796:LEU:HA	1:G:799:ILE:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1246:CYS:H	1:G:1328:ILE:CG2	2.28	0.46
1:G:1286:TRP:HD1	1:G:1290:LEU:HD11	1.79	0.46
1:G:1323:LYS:O	1:G:1324:ALA:CB	2.63	0.46
1:G:1378:GLU:HA	1:G:1583:HIS:C	2.36	0.46
1:G:1423:LYS:HA	1:G:1552:ASN:OD1	2.16	0.46
1:G:1491:ARG:HG2	1:G:1491:ARG:NH1	2.29	0.46
2:H:158:ALA:C	2:H:159:ILE:HG13	2.35	0.46
2:H:213:LEU:O	2:H:213:LEU:HG	2.16	0.46
2:H:462:THR:HG21	2:H:482:CYS:O	2.15	0.46
2:H:796:UNK:O	2:H:797:UNK:O	2.34	0.46
2:H:1151:UNK:C	2:H:1153:UNK:N	2.78	0.46
2:H:1445:UNK:O	2:H:1447:UNK:N	2.48	0.46
2:H:1869:GLU:O	2:H:1873:TYR:N	2.48	0.46
1:A:631:UNK:O	1:A:632:UNK:C	2.64	0.46
1:A:662:UNK:O	1:A:663:UNK:C	2.62	0.46
1:A:797:THR:CA	1:A:800:LEU:HD23	2.45	0.46
1:A:1151:LYS:HD2	1:A:1151:LYS:N	2.27	0.46
1:A:1208:VAL:C	1:A:1277:GLU:HG2	2.35	0.46
1:A:1229:THR:O	1:A:1230:ASP:HB3	2.14	0.46
1:A:1351:ASN:C	1:A:1352:THR:O	2.47	0.46
1:A:1456:GLU:N	1:A:1459:ILE:HG13	2.28	0.46
1:A:1476:GLU:O	1:A:1477:ILE:CG1	2.55	0.46
1:A:1615:ASP:OD1	1:A:1618:LEU:HG	2.16	0.46
1:A:1618:LEU:HD22	1:A:1623:TYR:CZ	2.50	0.46
2:B:10:THR:O	2:B:11:LEU:HD23	2.14	0.46
2:B:41:LEU:HB3	2:B:46:GLU:N	2.19	0.46
2:B:163:GLN:HB3	2:B:423:VAL:CG2	2.42	0.46
2:B:227:ASP:HB3	2:B:228:LYS:H	1.59	0.46
2:B:489:LYS:O	2:B:490:TRP:C	2.53	0.46
2:B:595:UNK:O	2:B:596:UNK:CB	2.63	0.46
2:B:681:UNK:O	2:B:682:UNK:C	2.63	0.46
2:B:915:UNK:C	2:B:917:UNK:N	2.78	0.46
2:B:1673:GLU:O	2:B:1674:GLN:C	2.54	0.46
2:B:1778:GLN:OE1	2:B:1834:ARG:HD2	2.15	0.46
1:D:927:ASN:OD1	1:D:930:LEU:HB2	2.15	0.46
1:D:1213:LEU:O	1:D:1214:PHE:C	2.53	0.46
1:D:1223:PHE:O	1:D:1228:ILE:N	2.45	0.46
1:D:1366:SER:O	1:D:1579:PHE:CD1	2.68	0.46
1:D:1396:MET:O	1:D:1397:GLY:O	2.33	0.46
1:D:1478:PRO:O	1:D:1479:SER:HB3	2.15	0.46
2:E:186:ASP:O	2:E:188:ILE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:393:LEU:HG	2:E:418:ASN:OD1	2.15	0.46
2:E:1329:UNK:O	2:E:1333:UNK:N	2.49	0.46
2:E:1715:VAL:HA	2:E:1718:THR:HG22	1.97	0.46
2:E:1863:ALA:O	2:E:1864:ALA:HB3	2.15	0.46
2:E:2004:UNK:O	2:E:2005:UNK:C	2.62	0.46
2:E:2028:UNK:O	2:E:2029:UNK:C	2.63	0.46
3:F:29:UNK:O	3:F:30:UNK:C	2.63	0.46
1:G:495:UNK:O	1:G:497:UNK:N	2.49	0.46
1:G:602:UNK:O	1:G:603:UNK:O	2.34	0.46
1:G:1030:TRP:CD1	1:G:1030:TRP:N	2.82	0.46
1:G:1087:LYS:HE3	1:G:1089:VAL:HG13	1.97	0.46
1:G:1215:VAL:HG23	1:G:1216:LEU:N	2.30	0.46
1:G:1354:GLU:O	1:G:1358:HIS:N	2.42	0.46
1:G:1476:GLU:O	1:G:1477:ILE:CG1	2.57	0.46
1:G:1605:ILE:CG1	1:G:1628:SER:HB3	2.44	0.46
1:G:1615:ASP:CG	1:G:1617:ILE:HG12	2.36	0.46
2:H:163:GLN:HB3	2:H:423:VAL:CG2	2.42	0.46
2:H:246:LEU:CD2	2:H:279:THR:HG23	2.45	0.46
2:H:416:PHE:HB3	2:H:418:ASN:HD21	1.80	0.46
2:H:517:HIS:O	2:H:518:ARG:C	2.52	0.46
2:H:738:UNK:O	2:H:739:UNK:C	2.63	0.46
2:H:846:UNK:C	2:H:848:UNK:N	2.78	0.46
2:H:917:UNK:O	2:H:919:UNK:N	2.49	0.46
2:H:1256:UNK:C	2:H:1258:UNK:N	2.78	0.46
2:H:1462:UNK:C	2:H:1464:UNK:N	2.79	0.46
2:H:1557:UNK:O	2:H:1560:UNK:N	2.48	0.46
2:H:1750:LYS:O	2:H:1751:ILE:C	2.53	0.46
2:H:1764:PHE:HD1	2:H:1776:PHE:CE1	2.33	0.46
2:H:1960:UNK:O	2:H:1961:UNK:C	2.62	0.46
1:A:643:UNK:C	1:A:645:UNK:N	2.77	0.46
1:A:773:ALA:O	1:A:774:ILE:HB	2.14	0.46
1:A:873:ARG:HD2	1:A:882:ASN:HA	1.98	0.46
1:A:1020:VAL:CG1	1:A:1021:VAL:N	2.79	0.46
1:A:1028:GLY:C	1:A:1193:TRP:HE1	2.19	0.46
1:A:1091:ALA:C	1:A:1093:TYR:N	2.66	0.46
1:A:1246:CYS:H	1:A:1328:ILE:CG2	2.28	0.46
1:A:1328:ILE:O	1:A:1328:ILE:HG12	2.15	0.46
1:A:1418:VAL:HA	1:A:1419:PRO:C	2.29	0.46
1:A:1447:TYR:HB3	1:A:1448:ARG:H	1.44	0.46
1:A:1491:ARG:O	1:A:1494:HIS:HB3	2.15	0.46
1:A:1605:ILE:CG1	1:A:1628:SER:HB3	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1714:VAL:HG13	1:A:1731:LEU:HD22	1.97	0.46
2:B:131:ILE:HG12	2:B:131:ILE:O	2.15	0.46
2:B:213:LEU:O	2:B:213:LEU:HG	2.15	0.46
2:B:330:ASN:OD1	2:B:394:ARG:HG2	2.16	0.46
2:B:342:SER:OG	2:B:343:ASN:N	2.48	0.46
2:B:738:UNK:O	2:B:739:UNK:C	2.63	0.46
2:B:742:UNK:O	2:B:745:UNK:N	2.49	0.46
2:B:846:UNK:C	2:B:848:UNK:N	2.79	0.46
2:B:1157:UNK:CB	2:B:1164:UNK:O	2.63	0.46
2:B:1972:UNK:O	2:B:1973:UNK:C	2.62	0.46
1:D:796:LEU:O	1:D:799:ILE:HB	2.15	0.46
1:D:1083:PRO:C	1:D:1085:ASP:H	2.19	0.46
1:D:1128:GLU:HA	1:D:1177:LYS:CA	2.44	0.46
1:D:1128:GLU:CB	1:D:1177:LYS:HG2	2.46	0.46
1:D:1427:THR:O	1:D:1430:ARG:N	2.49	0.46
1:D:1539:ALA:O	1:D:1575:VAL:HG23	2.15	0.46
2:E:106:ALA:C	2:E:108:LEU:H	2.19	0.46
2:E:148:ALA:O	2:E:150:GLY:N	2.49	0.46
2:E:157:VAL:HG21	2:E:498:ALA:HB2	1.98	0.46
2:E:241:ILE:CG2	2:E:275:GLN:NE2	2.64	0.46
1:G:632:UNK:CB	1:G:894:ARG:NH1	2.75	0.46
1:G:710:PHE:HD1	1:G:736:PRO:HB3	1.74	0.46
1:G:737:PHE:CZ	1:G:739:GLN:HA	2.50	0.46
1:G:796:LEU:HD12	1:G:800:LEU:HD21	1.97	0.46
1:G:813:ARG:HH11	1:G:813:ARG:HG3	1.81	0.46
1:G:1083:PRO:C	1:G:1085:ASP:H	2.18	0.46
1:G:1208:VAL:HG23	1:G:1209:ASP:N	2.30	0.46
1:G:1495:ASN:O	1:G:1496:GLU:C	2.51	0.46
1:G:1640:SER:CB	1:G:1654:ILE:HB	2.45	0.46
2:H:347:GLU:HA	2:H:350:GLN:HB3	1.97	0.46
2:H:452:ALA:C	2:H:454:ASP:H	2.19	0.46
2:H:539:ASP:O	2:H:540:ASP:C	2.53	0.46
2:H:562:UNK:O	2:H:563:UNK:C	2.64	0.46
2:H:1419:UNK:C	2:H:1421:UNK:N	2.78	0.46
2:H:1476:UNK:HA	2:H:1486:UNK:CB	2.45	0.46
2:H:1772:SER:C	2:H:1774:THR:N	2.69	0.46
2:H:1809:LEU:C	2:H:1811:GLU:H	2.19	0.46
2:H:1825:GLU:HB2	2:H:1826:SER:H	1.52	0.46
2:H:1903:ASP:OD1	2:H:1904:LEU:N	2.49	0.46
1:A:534:UNK:HA	1:A:537:UNK:CB	2.45	0.46
1:A:949:GLU:OE2	2:B:1440:UNK:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1146:HIS:C	1:A:1148:HIS:N	2.65	0.46
1:A:1179:LEU:HG	1:A:1181:PHE:CE1	2.50	0.46
1:A:1198:TYR:CE2	1:A:1217:VAL:CG1	2.99	0.46
1:A:1515:ARG:O	1:A:1516:ASP:C	2.54	0.46
1:A:1519:ILE:CG1	1:A:1521:PRO:HD2	2.46	0.46
1:A:1597:LEU:HD23	1:A:1597:LEU:N	2.30	0.46
2:B:329:GLU:C	2:B:331:ASN:N	2.66	0.46
2:B:526:ARG:N	2:B:526:ARG:CD	2.69	0.46
2:B:540:ASP:HB2	2:B:544:LYS:CE	2.45	0.46
2:B:1418:UNK:O	2:B:1420:UNK:N	2.48	0.46
2:B:1716:ASN:O	2:B:1765:ARG:HB2	2.16	0.46
2:B:1871:LEU:HD13	2:B:1882:THR:CG2	2.45	0.46
2:B:1901:ALA:HA	2:B:1905:ARG:HH21	1.80	0.46
1:D:662:UNK:O	1:D:663:UNK:C	2.63	0.46
1:D:714:VAL:O	1:D:716:ASP:N	2.49	0.46
1:D:1291:LEU:O	1:D:1292:ILE:C	2.53	0.46
1:D:1301:PRO:HB3	1:D:1314:ILE:CD1	2.46	0.46
1:D:1328:ILE:O	1:D:1328:ILE:HG12	2.15	0.46
1:D:1418:VAL:CG1	1:D:1419:PRO:HA	2.44	0.46
1:D:1471:LYS:O	1:D:1474:ALA:N	2.48	0.46
1:D:1492:GLU:O	1:D:1496:GLU:OE1	2.33	0.46
2:E:79:GLN:HB3	2:E:80:PHE:CD1	2.50	0.46
2:E:227:ASP:HB3	2:E:229:ASP:H	1.81	0.46
2:E:246:LEU:HD23	2:E:279:THR:HG23	1.97	0.46
2:E:330:ASN:O	2:E:330:ASN:ND2	2.48	0.46
2:E:373:GLY:CA	2:E:519:ASN:OD1	2.59	0.46
2:E:383:PRO:O	2:E:384:GLN:O	2.33	0.46
2:E:898:UNK:C	2:E:900:UNK:N	2.79	0.46
2:E:923:UNK:C	2:E:927:UNK:CB	2.93	0.46
2:E:1673:GLU:O	2:E:1674:GLN:C	2.54	0.46
2:E:1716:ASN:C	2:E:1718:THR:H	2.18	0.46
2:E:1731:GLU:HA	2:E:1735:ALA:CB	2.45	0.46
2:E:1860:GLY:O	2:E:1861:ARG:CB	2.63	0.46
1:G:458:UNK:CB	1:G:1631:LEU:HG	2.46	0.46
1:G:871:TRP:CZ2	1:G:881:ASN:HB2	2.50	0.46
1:G:970:GLY:O	1:G:971:ASN:CB	2.64	0.46
1:G:1106:ILE:HA	1:G:1192:GLY:CA	2.45	0.46
1:G:1246:CYS:HB2	1:G:1329:VAL:O	2.16	0.46
1:G:1308:SER:OG	1:G:1590:ALA:N	2.38	0.46
1:G:1459:ILE:HG22	1:G:1500:GLN:OE1	2.15	0.46
1:G:1525:ALA:O	1:G:1527:ALA:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1606:PRO:O	1:G:1626:TYR:C	2.54	0.46
1:G:1681:GLU:O	1:G:1682:LYS:CB	2.63	0.46
2:H:187:LEU:HD23	2:H:187:LEU:HA	1.74	0.46
2:H:253:ALA:O	2:H:256:LEU:N	2.48	0.46
2:H:329:GLU:C	2:H:331:ASN:N	2.67	0.46
2:H:1857:ILE:HG22	2:H:1858:ASN:N	2.31	0.46
1:A:485:UNK:O	1:A:487:UNK:N	2.48	0.46
1:A:556:UNK:C	1:A:558:UNK:N	2.77	0.46
1:A:691:GLU:OE2	1:A:900:GLU:HG2	2.15	0.46
1:A:858:TRP:CZ3	1:A:862:LEU:HB2	2.51	0.46
1:A:927:ASN:OD1	1:A:930:LEU:HB2	2.15	0.46
1:A:1119:LYS:CE	1:A:1121:MET:HG3	2.45	0.46
1:A:1190:PRO:O	1:A:1191:THR:CB	2.64	0.46
1:A:1260:MET:HB3	1:A:1261:PHE:CE2	2.51	0.46
1:A:1303:GLY:O	1:A:1304:ALA:C	2.54	0.46
1:A:1466:GLU:O	1:A:1469:ALA:N	2.49	0.46
1:A:1562:LYS:O	1:A:1564:LEU:N	2.48	0.46
1:A:1721:ARG:O	1:A:1731:LEU:HD23	2.16	0.46
2:B:168:ASP:CB	2:B:171:GLU:HB2	2.30	0.46
2:B:494:THR:O	2:B:495:GLN:C	2.53	0.46
2:B:1205:UNK:CB	2:B:1212:UNK:N	2.79	0.46
2:B:1419:UNK:C	2:B:1421:UNK:N	2.76	0.46
2:B:1705:SER:O	2:B:1708:ASP:HB3	2.15	0.46
2:B:1855:ILE:CG2	2:B:1951:UNK:HA	2.43	0.46
1:D:610:UNK:CB	1:D:873:ARG:HH21	2.28	0.46
1:D:693:LEU:O	1:D:695:GLY:N	2.49	0.46
1:D:745:VAL:O	1:D:746:GLU:C	2.54	0.46
1:D:1031:GLY:N	1:D:1035:THR:HG21	2.29	0.46
1:D:1299:LYS:CE	1:D:1323:LYS:HZ1	2.28	0.46
1:D:1373:ARG:HG2	1:D:1547:LYS:HB3	1.97	0.46
1:D:1418:VAL:HG11	1:D:1647:GLY:H	1.81	0.46
1:D:1486:LEU:HD12	1:D:1754:UNK:O	2.16	0.46
1:D:1700:SER:HA	1:D:1701:LYS:CE	2.46	0.46
1:D:1711:GLU:O	1:D:1712:GLU:C	2.53	0.46
2:E:14:GLY:HA3	2:E:18:HIS:CG	2.50	0.46
2:E:56:THR:O	2:E:56:THR:HG22	2.15	0.46
2:E:323:ILE:O	2:E:324:LEU:C	2.51	0.46
2:E:525:VAL:O	2:E:526:ARG:C	2.54	0.46
2:E:1151:UNK:C	2:E:1153:UNK:N	2.78	0.46
2:E:1678:MET:HA	2:E:1678:MET:CE	2.36	0.46
2:E:1809:LEU:C	2:E:1811:GLU:H	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1903:ASP:O	2:E:1906:ALA:N	2.47	0.46
1:G:527:UNK:C	1:G:529:UNK:N	2.73	0.46
1:G:677:TYR:C	1:G:678:VAL:HG23	2.36	0.46
1:G:758:ASN:N	1:G:758:ASN:ND2	2.63	0.46
1:G:1127:VAL:HG23	1:G:1180:ARG:HB2	1.97	0.46
1:G:1151:LYS:CG	1:G:1175:ILE:CD1	2.94	0.46
1:G:1222:ALA:O	1:G:1225:ALA:N	2.36	0.46
1:G:1302:VAL:CG2	1:G:1649:LYS:HE3	2.39	0.46
1:G:1487:LEU:HA	1:G:1490:THR:HG21	1.97	0.46
2:H:79:GLN:HB3	2:H:80:PHE:CD1	2.50	0.46
2:H:184:VAL:O	2:H:185:GLY:C	2.54	0.46
2:H:214:ASN:C	2:H:216:LEU:N	2.67	0.46
2:H:511:GLY:C	2:H:513:GLY:H	2.17	0.46
2:H:528:ILE:CG2	2:H:529:VAL:N	2.77	0.46
2:H:1757:GLU:HB2	2:H:1758:HIS:H	1.54	0.46
3:I:29:UNK:O	3:I:30:UNK:C	2.63	0.46
1:A:426:UNK:O	1:A:427:UNK:C	2.64	0.46
1:A:677:TYR:O	1:A:678:VAL:CG2	2.64	0.46
1:A:695:GLY:O	1:A:696:LEU:C	2.53	0.46
1:A:705:VAL:CG2	1:A:732:LEU:HD11	2.46	0.46
1:A:710:PHE:CE1	1:A:736:PRO:HB3	2.51	0.46
1:A:901:MET:O	1:A:902:ALA:C	2.54	0.46
1:A:990:LEU:O	1:A:991:ASP:O	2.34	0.46
1:A:1208:VAL:CG2	1:A:1212:THR:HB	2.46	0.46
1:A:1540:SER:OG	1:A:1592:MET:HB3	2.15	0.46
1:A:1613:ASN:CG	1:A:1614:VAL:N	2.68	0.46
2:B:13:HIS:O	2:B:15:SER:N	2.48	0.46
2:B:59:GLU:OE1	2:B:122:LEU:CA	2.62	0.46
2:B:1038:UNK:C	2:B:1040:UNK:N	2.78	0.46
2:B:1379:UNK:CA	2:B:1426:UNK:HA	2.38	0.46
2:B:1606:UNK:O	2:B:1608:UNK:N	2.49	0.46
2:B:1806:GLY:HA3	2:B:1811:GLU:CA	2.44	0.46
3:C:53:UNK:O	3:C:55:UNK:N	2.49	0.46
1:D:378:UNK:C	1:D:380:UNK:N	2.74	0.46
1:D:620:UNK:O	1:D:621:UNK:C	2.63	0.46
1:D:717:TYR:CD2	1:D:718:TYR:CD1	3.02	0.46
1:D:758:ASN:N	1:D:758:ASN:ND2	2.62	0.46
1:D:864:VAL:CG1	1:D:865:CYS:N	2.76	0.46
1:D:901:MET:CE	1:D:905:LEU:CD2	2.94	0.46
1:D:910:THR:CG2	1:D:913:VAL:CG2	2.93	0.46
1:D:1456:GLU:N	1:D:1459:ILE:CG1	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:240:LEU:HD12	2:E:240:LEU:N	2.31	0.46
2:E:681:UNK:O	2:E:682:UNK:C	2.63	0.46
2:E:1715:VAL:HA	2:E:1718:THR:CG2	2.46	0.46
2:E:1734:SER:O	2:E:1735:ALA:C	2.54	0.46
2:E:1754:GLU:O	2:E:1756:ASN:N	2.48	0.46
1:G:565:UNK:O	1:G:569:UNK:N	2.48	0.46
1:G:710:PHE:CE1	1:G:736:PRO:HB3	2.50	0.46
1:G:743:GLN:O	1:G:744:ASP:C	2.54	0.46
1:G:745:VAL:O	1:G:746:GLU:C	2.52	0.46
1:G:784:ILE:O	1:G:788:SER:HB2	2.16	0.46
1:G:1091:ALA:C	1:G:1093:TYR:N	2.66	0.46
1:G:1119:LYS:CE	1:G:1121:MET:HB2	2.38	0.46
1:G:1291:LEU:O	1:G:1292:ILE:C	2.53	0.46
1:G:1376:PHE:O	1:G:1377:MET:CG	2.64	0.46
1:G:1418:VAL:HG11	1:G:1647:GLY:H	1.80	0.46
1:G:1430:ARG:HH12	1:G:1652:GLN:HG3	1.81	0.46
1:G:1515:ARG:O	1:G:1516:ASP:C	2.53	0.46
1:G:1682:LYS:HA	1:G:1685:TYR:HB3	1.98	0.46
1:G:1707:THR:HG23	1:G:1710:LEU:CG	2.44	0.46
2:H:1:MET:HE3	2:H:19:VAL:HG13	1.97	0.46
2:H:11:LEU:O	2:H:12:SER:C	2.54	0.46
2:H:70:SER:O	2:H:76:LYS:HB2	2.16	0.46
2:H:1058:UNK:C	2:H:1060:UNK:N	2.76	0.46
2:H:1445:UNK:C	2:H:1447:UNK:N	2.78	0.46
2:H:1731:GLU:HA	2:H:1735:ALA:CB	2.46	0.46
2:H:1806:GLY:HA3	2:H:1811:GLU:CA	2.42	0.46
2:H:1863:ALA:HA	2:H:1866:PHE:CG	2.51	0.46
2:H:2028:UNK:O	2:H:2029:UNK:C	2.63	0.46
1:A:776:GLU:OE2	1:A:838:MET:N	2.49	0.46
1:A:798:ASN:O	1:A:799:ILE:C	2.53	0.46
1:A:1062:TYR:HB2	1:A:1077:ASP:HA	1.96	0.46
1:A:1224:ILE:CD1	1:A:1687:PHE:HD2	2.28	0.46
1:A:1393:ALA:HB1	1:A:1398:VAL:HG11	1.98	0.46
1:A:1445:MET:O	1:A:1446:LYS:C	2.54	0.46
1:A:1504:ALA:O	1:A:1506:GLN:N	2.49	0.46
1:A:1584:PRO:HG2	1:A:1584:PRO:O	2.15	0.46
2:B:45:THR:CG2	2:B:46:GLU:OE1	2.64	0.46
2:B:209:PHE:O	2:B:210:THR:C	2.54	0.46
2:B:259:THR:HG22	2:B:288:SER:HA	1.97	0.46
2:B:279:THR:HG22	2:B:283:ILE:HD12	1.96	0.46
2:B:387:TYR:O	2:B:390:ASN:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:660:UNK:C	2:B:662:UNK:N	2.78	0.46
2:B:880:UNK:CB	2:B:989:UNK:O	2.64	0.46
2:B:1445:UNK:O	2:B:1448:UNK:N	2.49	0.46
2:B:1754:GLU:O	2:B:1756:ASN:N	2.49	0.46
1:D:170:UNK:O	1:D:171:UNK:CB	2.63	0.46
1:D:678:VAL:HG21	1:D:767:ALA:HB3	1.97	0.46
1:D:1246:CYS:HB3	1:D:1328:ILE:CG2	2.26	0.46
1:D:1329:VAL:HG13	1:D:1384:ILE:HD12	1.97	0.46
1:D:1341:PHE:O	1:D:1342:GLU:CB	2.54	0.46
1:D:1408:ALA:CB	1:D:1652:GLN:N	2.79	0.46
1:D:1582:GLY:O	1:D:1583:HIS:C	2.53	0.46
1:D:1779:UNK:C	1:D:1781:UNK:N	2.77	0.46
2:E:149:VAL:HG22	2:E:155:GLN:CA	2.46	0.46
2:E:375:LYS:HG3	2:E:376:ASN:ND2	2.31	0.46
2:E:1038:UNK:C	2:E:1040:UNK:N	2.79	0.46
2:E:1686:ALA:O	2:E:1687:ALA:C	2.54	0.46
2:E:1731:GLU:HA	2:E:1735:ALA:HB3	1.97	0.46
2:E:1772:SER:C	2:E:1774:THR:H	2.18	0.46
2:E:1782:THR:HG21	2:E:1831:VAL:HG21	1.97	0.46
2:E:1792:LEU:CA	2:E:1797:LEU:HD12	2.45	0.46
2:E:1806:GLY:HA3	2:E:1811:GLU:CA	2.43	0.46
2:E:1898:TYR:CD2	2:E:1936:VAL:HG23	2.51	0.46
1:G:556:UNK:C	1:G:558:UNK:N	2.77	0.46
1:G:917:CYS:SG	1:G:922:VAL:HG21	2.55	0.46
1:G:1039:MET:SD	1:G:1043:GLY:O	2.73	0.46
1:G:1061:SER:O	1:G:1062:TYR:O	2.33	0.46
1:G:1089:VAL:H	1:G:1093:TYR:HD2	1.63	0.46
1:G:1195:ALA:O	1:G:1196:LYS:NZ	2.48	0.46
1:G:1553:GLU:C	1:G:1555:ALA:N	2.68	0.46
1:G:1555:ALA:HA	1:G:1558:ASN:CB	2.46	0.46
1:G:1665:ILE:HD12	1:G:1669:ARG:HB2	1.97	0.46
2:H:12:SER:O	2:H:13:HIS:C	2.54	0.46
2:H:14:GLY:HA3	2:H:18:HIS:CG	2.51	0.46
2:H:227:ASP:HB3	2:H:229:ASP:H	1.80	0.46
2:H:261:GLY:HA2	2:H:264:ARG:CG	2.46	0.46
2:H:344:LEU:HD13	2:H:345:THR:N	2.22	0.46
2:H:517:HIS:CD2	2:H:526:ARG:HH21	2.34	0.46
2:H:869:UNK:C	2:H:871:UNK:N	2.74	0.46
2:H:1045:UNK:C	2:H:1047:UNK:N	2.78	0.46
2:H:1169:UNK:C	2:H:1171:UNK:H2	2.29	0.46
2:H:1220:UNK:C	2:H:1222:UNK:H	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:407:UNK:C	1:A:409:UNK:N	2.78	0.46
1:A:541:UNK:C	1:A:543:UNK:N	2.79	0.46
1:A:755:THR:HG22	1:A:756:GLU:N	2.29	0.46
1:A:784:ILE:O	1:A:788:SER:HB2	2.15	0.46
1:A:869:ILE:CG2	1:A:926:LEU:HB2	2.39	0.46
1:A:949:GLU:CD	2:B:1440:UNK:CB	2.85	0.46
1:A:1087:LYS:HE3	1:A:1089:VAL:HG13	1.98	0.46
1:A:1138:LYS:NZ	1:G:243:UNK:CB	2.79	0.46
1:A:1290:LEU:CA	1:A:1701:LYS:HD2	2.46	0.46
1:A:1323:LYS:O	1:A:1324:ALA:CB	2.64	0.46
1:A:1396:MET:HG2	1:A:1676:LYS:CE	2.46	0.46
1:A:1453:VAL:O	1:A:1457:ALA:CB	2.64	0.46
1:A:1719:LEU:CB	1:A:1737:ASN:OD1	2.64	0.46
1:A:1733:PHE:CD1	1:A:1733:PHE:N	2.83	0.46
2:B:28:PHE:HD2	2:B:28:PHE:HA	1.66	0.46
2:B:31:SER:O	2:B:34:GLN:N	2.49	0.46
2:B:801:UNK:C	2:B:803:UNK:N	2.78	0.46
2:B:1633:UNK:O	2:B:1634:UNK:CB	2.64	0.46
2:B:1929:LYS:HE2	2:B:1929:LYS:CA	2.45	0.46
3:C:3:UNK:HA	3:C:6:UNK:CB	2.46	0.46
3:C:29:UNK:O	3:C:30:UNK:C	2.63	0.46
1:D:1010:GLU:O	1:D:1011:GLY:C	2.53	0.46
1:D:1103:ILE:O	1:D:1106:ILE:CG1	2.64	0.46
1:D:1119:LYS:CE	1:D:1121:MET:HB2	2.40	0.46
1:D:1141:ALA:HA	1:D:1144:PHE:HE1	1.76	0.46
1:D:1165:VAL:CG2	1:D:1166:LYS:H	2.25	0.46
1:D:1433:HIS:HD2	1:D:1519:ILE:HG12	1.80	0.46
1:D:1502:ARG:O	1:D:1503:ALA:C	2.54	0.46
1:D:1504:ALA:O	1:D:1505:GLN:C	2.54	0.46
1:D:1557:ILE:HA	1:D:1560:MET:SD	2.56	0.46
2:E:13:HIS:O	2:E:15:SER:N	2.49	0.46
2:E:119:THR:O	2:E:122:LEU:HB3	2.16	0.46
2:E:160:PHE:CZ	2:E:283:ILE:HD12	2.51	0.46
2:E:184:VAL:O	2:E:185:GLY:C	2.54	0.46
2:E:248:HIS:O	2:E:249:TYR:C	2.55	0.46
2:E:568:UNK:C	2:E:570:UNK:N	2.78	0.46
2:E:926:UNK:O	2:E:927:UNK:C	2.62	0.46
2:E:1753:LYS:HG3	2:E:1754:GLU:N	2.31	0.46
2:E:1790:GLU:O	2:E:1791:ASP:C	2.54	0.46
2:E:1830:VAL:CG1	2:E:1831:VAL:N	2.79	0.46
2:E:1960:UNK:O	2:E:1961:UNK:C	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:481:UNK:O	1:G:483:UNK:N	2.49	0.46
1:G:779:ILE:HD12	1:G:837:GLY:HA3	1.98	0.46
1:G:1020:VAL:CG1	1:G:1021:VAL:N	2.78	0.46
1:G:1128:GLU:HA	1:G:1177:LYS:CA	2.44	0.46
1:G:1133:PRO:CD	1:G:1173:LEU:HD13	2.46	0.46
1:G:1203:ASP:C	1:G:1205:ILE:H	2.14	0.46
1:G:1248:GLY:O	1:G:1300:THR:HA	2.15	0.46
2:H:660:UNK:C	2:H:662:UNK:N	2.78	0.46
2:H:843:UNK:O	2:H:846:UNK:N	2.49	0.46
2:H:1751:ILE:HD13	2:H:1840:VAL:CG2	2.42	0.46
2:H:1792:LEU:N	2:H:1792:LEU:HD23	2.31	0.46
2:H:1792:LEU:CA	2:H:1797:LEU:HD12	2.45	0.46
1:A:622:UNK:O	1:A:626:UNK:N	2.49	0.46
1:A:796:LEU:O	1:A:799:ILE:HB	2.16	0.46
1:A:930:LEU:O	1:A:932:PHE:N	2.49	0.46
1:A:1036:ARG:O	1:A:1039:MET:N	2.49	0.46
1:A:1063:HIS:CD2	1:A:1065:GLY:CA	2.98	0.46
1:A:1460:LYS:HD3	1:A:1778:UNK:CB	2.46	0.46
1:A:1665:ILE:HG22	1:A:1667:GLU:H	1.80	0.46
2:B:60:LEU:HD12	2:B:60:LEU:N	2.31	0.46
2:B:227:ASP:HB3	2:B:229:ASP:H	1.81	0.46
2:B:1058:UNK:HA	2:B:1061:UNK:CB	2.45	0.46
2:B:1753:LYS:O	2:B:1754:GLU:HB3	2.16	0.46
2:B:1778:GLN:NE2	2:B:1835:GLY:HA2	2.30	0.46
2:B:1830:VAL:C	2:B:1832:PHE:N	2.66	0.46
3:C:38:UNK:C	3:C:40:UNK:N	2.78	0.46
1:D:444:UNK:CB	1:D:1613:ASN:OD1	2.64	0.46
1:D:1219:VAL:HG13	1:D:1220:VAL:N	2.30	0.46
1:D:1396:MET:HG2	1:D:1676:LYS:HE2	1.97	0.46
1:D:1487:LEU:HA	1:D:1490:THR:HG21	1.97	0.46
1:D:1542:HIS:O	1:D:1544:THR:N	2.49	0.46
1:D:1700:SER:C	1:D:1701:LYS:HD3	2.36	0.46
1:D:1740:SER:O	1:D:1742:ASP:N	2.48	0.46
2:E:37:PHE:HD2	2:E:37:PHE:HA	1.67	0.46
2:E:408:PRO:CG	2:E:409:PHE:H	2.28	0.46
2:E:408:PRO:HD3	2:E:731:UNK:O	2.15	0.46
2:E:618:UNK:C	2:E:620:UNK:N	2.78	0.46
2:E:1304:UNK:O	2:E:1305:UNK:O	2.33	0.46
2:E:1421:UNK:O	2:E:1423:UNK:N	2.49	0.46
2:E:1490:UNK:CB	2:E:1507:UNK:N	2.79	0.46
2:E:1638:UNK:N	2:E:1655:UNK:O	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1750:LYS:O	2:E:1751:ILE:C	2.54	0.46
2:E:1863:ALA:HA	2:E:1866:PHE:CG	2.51	0.46
1:G:451:UNK:O	1:G:452:UNK:C	2.64	0.46
1:G:993:PRO:HA	1:G:1681:GLU:OE1	2.15	0.46
1:G:1067:LEU:HA	1:G:1074:GLY:O	2.16	0.46
1:G:1112:ASN:C	1:G:1114:TYR:N	2.56	0.46
2:H:345:THR:O	2:H:349:VAL:HG23	2.16	0.46
2:H:928:UNK:O	2:H:930:UNK:N	2.49	0.46
2:H:974:UNK:C	2:H:976:UNK:N	2.77	0.46
2:H:1812:TYR:C	2:H:1814:ALA:N	2.70	0.46
2:H:1995:UNK:C	2:H:1996:UNK:O	2.61	0.46
1:A:448:UNK:C	1:A:450:UNK:N	2.80	0.45
1:A:888:ILE:C	1:A:890:LYS:H	2.19	0.45
1:A:914:VAL:O	1:A:915:GLU:C	2.55	0.45
1:A:1019:ILE:HG13	1:A:1316:VAL:CG2	2.39	0.45
1:A:1100:HIS:C	1:A:1102:GLY:N	2.65	0.45
1:A:1190:PRO:O	1:A:1191:THR:CG2	2.64	0.45
1:A:1246:CYS:H	1:A:1328:ILE:HG23	1.81	0.45
1:A:1275:LEU:O	1:A:1278:SER:HB3	2.16	0.45
1:A:1288:ASN:C	1:A:1290:LEU:N	2.69	0.45
1:A:1417:SER:C	1:A:1418:VAL:CG2	2.83	0.45
1:A:1582:GLY:O	1:A:1583:HIS:C	2.55	0.45
2:B:12:SER:O	2:B:13:HIS:C	2.54	0.45
2:B:416:PHE:HB3	2:B:418:ASN:HD21	1.81	0.45
2:B:452:ALA:C	2:B:454:ASP:H	2.19	0.45
2:B:562:UNK:O	2:B:563:UNK:C	2.64	0.45
2:B:923:UNK:C	2:B:927:UNK:CB	2.95	0.45
2:B:1220:UNK:C	2:B:1222:UNK:N	2.78	0.45
2:B:1751:ILE:HD13	2:B:1840:VAL:CG2	2.41	0.45
1:D:589:UNK:O	1:D:591:UNK:N	2.49	0.45
1:D:689:GLY:HA2	1:D:692:VAL:CB	2.46	0.45
1:D:694:GLN:HB3	1:D:725:TYR:CE2	2.51	0.45
1:D:707:THR:HG22	1:D:709:ARG:H	1.81	0.45
1:D:718:TYR:CD1	1:D:718:TYR:N	2.84	0.45
1:D:826:MET:HB2	1:D:868:ILE:CA	2.38	0.45
1:D:1091:ALA:C	1:D:1093:TYR:N	2.66	0.45
1:D:1214:PHE:O	1:D:1215:VAL:C	2.55	0.45
1:D:1562:LYS:C	1:D:1564:LEU:N	2.70	0.45
2:E:37:PHE:CD1	2:E:49:ALA:HB3	2.52	0.45
2:E:38:ASN:C	2:E:38:ASN:OD1	2.53	0.45
2:E:51:ASP:O	2:E:52:ASP:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:59:GLU:OE1	2:E:122:LEU:CA	2.62	0.45
2:E:75:SER:C	2:E:77:VAL:N	2.67	0.45
2:E:122:LEU:O	2:E:125:ASN:HB2	2.16	0.45
2:E:182:VAL:HG12	2:E:183:LEU:HD23	1.96	0.45
2:E:211:GLN:O	2:E:212:GLY:C	2.55	0.45
2:E:260:PRO:CG	2:E:292:PHE:HB2	2.39	0.45
2:E:416:PHE:HB3	2:E:418:ASN:HD21	1.81	0.45
2:E:928:UNK:O	2:E:930:UNK:N	2.49	0.45
2:E:1585:UNK:O	2:E:1587:UNK:N	2.48	0.45
2:E:1871:LEU:HD13	2:E:1882:THR:CG2	2.46	0.45
1:G:574:UNK:O	1:G:575:UNK:C	2.64	0.45
1:G:682:GLY:O	1:G:683:ALA:O	2.35	0.45
1:G:689:GLY:O	1:G:692:VAL:HB	2.15	0.45
1:G:711:SER:O	1:G:714:VAL:N	2.48	0.45
1:G:781:LEU:O	1:G:782:GLU:O	2.34	0.45
1:G:1478:PRO:O	1:G:1479:SER:HB3	2.16	0.45
1:G:1528:THR:C	1:G:1529:TYR:CD1	2.89	0.45
1:G:1616:LYS:C	1:G:1618:LEU:H	2.18	0.45
1:G:1700:SER:HA	1:G:1701:LYS:HE3	1.98	0.45
1:G:1740:SER:O	1:G:1742:ASP:N	2.50	0.45
2:H:578:UNK:C	2:H:580:UNK:N	2.79	0.45
2:H:1137:UNK:C	2:H:1139:UNK:N	2.80	0.45
2:H:1215:UNK:O	2:H:1226:UNK:CB	2.64	0.45
2:H:1332:UNK:O	2:H:1333:UNK:C	2.65	0.45
2:H:1715:VAL:HA	2:H:1718:THR:HG22	1.97	0.45
2:H:1754:GLU:O	2:H:1756:ASN:N	2.49	0.45
2:H:1901:ALA:HA	2:H:1905:ARG:HH21	1.79	0.45
2:H:2029:UNK:C	2:H:2031:UNK:N	2.78	0.45
1:A:610:UNK:CB	1:A:873:ARG:HH21	2.29	0.45
1:A:693:LEU:O	1:A:695:GLY:N	2.49	0.45
1:A:937:LYS:O	1:A:939:PHE:N	2.49	0.45
1:A:1232:TYR:CE1	1:A:1705:PRO:HD3	2.44	0.45
1:A:1233:GLU:HG2	1:A:1233:GLU:O	2.16	0.45
1:A:1301:PRO:HB3	1:A:1314:ILE:CD1	2.45	0.45
1:A:1307:THR:OG1	1:A:1308:SER:N	2.44	0.45
1:A:1343:PHE:C	1:A:1345:ASN:H	2.19	0.45
2:B:56:THR:O	2:B:59:GLU:HB2	2.17	0.45
2:B:310:CYS:SG	2:B:484:ILE:HG21	2.55	0.45
2:B:511:GLY:C	2:B:513:GLY:H	2.17	0.45
2:B:836:UNK:CA	2:B:1028:UNK:HA	2.43	0.45
2:B:1252:UNK:O	2:B:1253:UNK:O	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1462:UNK:C	2:B:1464:UNK:N	2.79	0.45
2:B:1742:VAL:HG21	2:B:1837:THR:HA	1.99	0.45
2:B:1750:LYS:O	2:B:1751:ILE:C	2.54	0.45
2:B:1887:GLU:OE2	2:B:1888:ILE:HG22	2.16	0.45
1:D:523:UNK:C	1:D:525:UNK:N	2.78	0.45
1:D:631:UNK:O	1:D:632:UNK:C	2.64	0.45
1:D:673:PHE:O	1:D:674:LYS:O	2.35	0.45
1:D:781:LEU:O	1:D:782:GLU:O	2.34	0.45
1:D:784:ILE:HD11	1:D:838:MET:HG3	1.98	0.45
1:D:796:LEU:HD12	1:D:800:LEU:HD21	1.97	0.45
1:D:888:ILE:C	1:D:890:LYS:H	2.19	0.45
1:D:970:GLY:O	1:D:971:ASN:CB	2.64	0.45
1:D:988:ILE:O	1:D:990:LEU:N	2.49	0.45
1:D:1020:VAL:HG22	1:D:1403:ILE:CA	2.43	0.45
1:D:1112:ASN:ND2	1:D:1119:LYS:HA	2.31	0.45
1:D:1127:VAL:CG2	1:D:1180:ARG:HG3	2.46	0.45
1:D:1131:LEU:O	1:D:1173:LEU:HD13	2.16	0.45
1:D:1302:VAL:CG2	1:D:1649:LYS:HE3	2.35	0.45
1:D:1396:MET:HG2	1:D:1676:LYS:CE	2.47	0.45
1:D:1656:VAL:CG2	1:D:1657:HIS:N	2.79	0.45
1:D:1677:VAL:C	1:D:1679:ALA:N	2.69	0.45
2:E:248:HIS:ND1	2:E:529:VAL:HG11	2.31	0.45
2:E:262:GLU:O	2:E:265:SER:HB3	2.16	0.45
2:E:1075:UNK:O	2:E:1076:UNK:CB	2.64	0.45
2:E:1335:UNK:C	2:E:1337:UNK:N	2.79	0.45
2:E:1712:ASN:O	2:E:1714:PRO:HD3	2.17	0.45
2:E:1778:GLN:OE1	2:E:1834:ARG:HD2	2.16	0.45
1:G:797:THR:CA	1:G:800:LEU:HD23	2.46	0.45
1:G:839:TYR:CE1	1:G:843:LYS:CE	2.98	0.45
1:G:884:ILE:O	1:G:885:ALA:HB3	2.16	0.45
1:G:1119:LYS:CE	1:G:1121:MET:HG3	2.46	0.45
1:G:1208:VAL:HA	1:G:1277:GLU:OE1	2.16	0.45
1:G:1225:ALA:C	1:G:1227:GLY:N	2.55	0.45
1:G:1248:GLY:O	1:G:1249:SER:HB3	2.15	0.45
1:G:1398:VAL:HG11	1:G:1400:ILE:HG23	1.97	0.45
1:G:1613:ASN:CG	1:G:1614:VAL:N	2.69	0.45
2:H:4:TYR:HD1	2:H:5:SER:H	1.63	0.45
2:H:157:VAL:HG21	2:H:498:ALA:HB2	1.99	0.45
2:H:234:ILE:CG2	2:H:311:TYR:HD1	2.29	0.45
2:H:366:VAL:HG22	2:H:381:GLY:CA	2.30	0.45
2:H:461:ASP:HB3	2:H:463:PHE:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:692:UNK:N	2:H:716:UNK:CB	2.80	0.45
2:H:1038:UNK:C	2:H:1040:UNK:N	2.79	0.45
2:H:1738:PHE:HA	2:H:1755:ILE:HG13	1.98	0.45
2:H:1778:GLN:OE1	2:H:1834:ARG:HD2	2.16	0.45
2:H:1860:GLY:O	2:H:1861:ARG:CB	2.63	0.45
3:I:35:UNK:C	3:I:37:UNK:N	2.78	0.45
3:I:38:UNK:C	3:I:40:UNK:N	2.78	0.45
1:A:647:UNK:O	1:A:648:UNK:O	2.33	0.45
1:A:714:VAL:O	1:A:716:ASP:N	2.49	0.45
1:A:1128:GLU:HA	1:A:1177:LYS:CA	2.43	0.45
1:A:1157:ILE:CG2	1:A:1158:PRO:HD2	2.22	0.45
1:A:1214:PHE:O	1:A:1215:VAL:C	2.54	0.45
1:A:1256:ALA:HB1	1:A:1274:ILE:HD11	1.99	0.45
1:A:1263:ASP:O	1:A:1264:ARG:CB	2.50	0.45
1:A:1289:MET:H	1:A:1289:MET:HG2	1.50	0.45
1:A:1326:ILE:O	1:A:1326:ILE:HG22	2.15	0.45
1:A:1343:PHE:C	1:A:1345:ASN:N	2.68	0.45
1:A:1580:LEU:C	1:A:1581:THR:OG1	2.54	0.45
2:B:106:ALA:C	2:B:108:LEU:H	2.18	0.45
2:B:234:ILE:CD1	2:B:307:GLY:HA2	2.45	0.45
1:D:431:UNK:O	1:D:432:UNK:O	2.34	0.45
1:D:485:UNK:O	1:D:487:UNK:N	2.49	0.45
1:D:622:UNK:O	1:D:626:UNK:N	2.50	0.45
1:D:695:GLY:O	1:D:696:LEU:C	2.55	0.45
1:D:710:PHE:CE1	1:D:736:PRO:HB3	2.51	0.45
1:D:1009:LEU:HD22	1:D:1446:LYS:HG3	1.99	0.45
1:D:1061:SER:O	1:D:1062:TYR:O	2.34	0.45
1:D:1139:GLU:CG	1:D:1140:THR:H	2.30	0.45
1:D:1139:GLU:HG2	1:D:1140:THR:N	2.30	0.45
1:D:1333:ASP:HB2	1:D:1586:GLY:HA3	1.98	0.45
1:D:1475:GLU:HA	1:D:1475:GLU:OE1	2.16	0.45
2:E:158:ALA:C	2:E:159:ILE:HG13	2.37	0.45
2:E:450:PHE:HD1	2:E:451:ASN:H	1.48	0.45
2:E:681:UNK:O	2:E:684:UNK:N	2.49	0.45
2:E:846:UNK:C	2:E:848:UNK:N	2.79	0.45
2:E:1445:UNK:O	2:E:1448:UNK:N	2.49	0.45
2:E:1614:UNK:CB	2:E:1649:UNK:O	2.64	0.45
2:E:1733:TYR:O	2:E:1734:SER:HB2	2.16	0.45
3:F:35:UNK:C	3:F:37:UNK:N	2.77	0.45
3:F:53:UNK:O	3:F:55:UNK:N	2.48	0.45
1:G:401:UNK:C	1:G:403:UNK:N	2.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:684:GLY:O	1:G:690:ALA:HB2	2.16	0.45
1:G:755:THR:CG2	1:G:756:GLU:N	2.79	0.45
1:G:782:GLU:O	1:G:784:ILE:HG22	2.17	0.45
1:G:873:ARG:HD2	1:G:882:ASN:HA	1.98	0.45
1:G:1189:ILE:HD13	1:G:1189:ILE:HA	1.75	0.45
1:G:1246:CYS:H	1:G:1328:ILE:HG23	1.81	0.45
1:G:1299:LYS:HZ1	1:G:1323:LYS:NZ	2.05	0.45
1:G:1301:PRO:HB3	1:G:1314:ILE:CD1	2.46	0.45
1:G:1366:SER:HB3	1:G:1579:PHE:HD1	1.81	0.45
1:G:1438:TYR:O	1:G:1440:SER:N	2.45	0.45
1:G:1713:ASP:O	1:G:1714:VAL:C	2.54	0.45
1:G:1748:UNK:C	1:G:1750:UNK:N	2.79	0.45
2:H:51:ASP:O	2:H:52:ASP:C	2.55	0.45
2:H:429:SER:OG	2:H:432:LEU:CB	2.65	0.45
2:H:737:UNK:C	2:H:739:UNK:N	2.75	0.45
2:H:817:UNK:O	2:H:818:UNK:C	2.64	0.45
2:H:974:UNK:O	2:H:978:UNK:N	2.50	0.45
2:H:1551:UNK:O	2:H:1553:UNK:N	2.50	0.45
2:H:1906:ALA:O	2:H:1910:VAL:HG23	2.16	0.45
2:H:1972:UNK:C	2:H:1974:UNK:N	2.75	0.45
1:A:401:UNK:C	1:A:403:UNK:N	2.80	0.45
1:A:495:UNK:O	1:A:497:UNK:N	2.50	0.45
1:A:670:UNK:O	1:A:671:VAL:HG23	2.15	0.45
1:A:710:PHE:HE1	1:A:736:PRO:CD	2.18	0.45
1:A:839:TYR:HE1	1:A:843:LYS:CE	2.28	0.45
1:A:1190:PRO:HG3	1:A:1379:ALA:HA	1.98	0.45
1:A:1223:PHE:CE1	1:A:1231:PRO:HB3	2.51	0.45
1:A:1329:VAL:HG13	1:A:1384:ILE:HD12	1.98	0.45
1:A:1339:GLY:O	1:A:1340:SER:C	2.53	0.45
1:A:1639:VAL:CG2	1:A:1655:VAL:H	2.29	0.45
1:A:1639:VAL:CG2	1:A:1655:VAL:HG12	2.46	0.45
2:B:56:THR:O	2:B:56:THR:HG22	2.16	0.45
2:B:234:ILE:CG2	2:B:311:TYR:HD1	2.29	0.45
2:B:470:VAL:O	2:B:470:VAL:HG12	2.17	0.45
1:D:520:UNK:C	1:D:522:UNK:N	2.79	0.45
1:D:1119:LYS:CG	1:D:1122:ILE:H	2.27	0.45
1:D:1237:TYR:OH	1:D:1396:MET:HB2	2.17	0.45
1:D:1408:ALA:CA	1:D:1652:GLN:O	2.64	0.45
1:D:1665:ILE:HG22	1:D:1667:GLU:H	1.80	0.45
2:E:221:ASN:C	2:E:223:SER:H	2.20	0.45
2:E:479:ILE:HA	2:E:482:CYS:SG	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:677:UNK:O	2:E:678:UNK:C	2.64	0.45
2:E:996:UNK:O	2:E:998:UNK:N	2.50	0.45
2:E:1706:ILE:HG22	2:E:1710:VAL:CG2	2.46	0.45
1:G:469:UNK:O	1:G:472:UNK:CB	2.65	0.45
1:G:727:ALA:O	1:G:728:LYS:C	2.55	0.45
1:G:798:ASN:O	1:G:799:ILE:C	2.54	0.45
1:G:882:ASN:O	1:G:883:ILE:HG13	2.16	0.45
1:G:1020:VAL:HG22	1:G:1403:ILE:CA	2.44	0.45
1:G:1091:ALA:O	1:G:1093:TYR:O	2.34	0.45
1:G:1280:ILE:N	1:G:1280:ILE:CD1	2.59	0.45
1:G:1413:LYS:HD2	1:G:1425:ILE:HD12	1.98	0.45
1:G:1453:VAL:HG12	1:G:1454:THR:N	2.31	0.45
1:G:1625:LEU:C	1:G:1625:LEU:CD2	2.85	0.45
2:H:60:LEU:HD11	2:H:121:GLU:OE2	2.16	0.45
2:H:188:ILE:O	2:H:189:LYS:C	2.55	0.45
2:H:234:ILE:CG1	2:H:307:GLY:HA2	2.46	0.45
2:H:267:LEU:HD12	2:H:269:GLY:H	1.81	0.45
2:H:1220:UNK:C	2:H:1222:UNK:N	2.77	0.45
2:H:1715:VAL:CG1	2:H:1716:ASN:H	2.25	0.45
2:H:1731:GLU:HA	2:H:1735:ALA:HB3	1.98	0.45
2:H:1863:ALA:O	2:H:1864:ALA:HB3	2.16	0.45
2:H:1909:THR:HG23	2:H:1912:ASN:ND2	2.31	0.45
2:H:2019:UNK:O	2:H:2020:UNK:C	2.64	0.45
1:A:404:UNK:O	1:A:405:UNK:C	2.65	0.45
1:A:563:UNK:O	1:A:566:UNK:N	2.49	0.45
1:A:677:TYR:O	1:A:678:VAL:HG23	2.16	0.45
1:A:791:ALA:O	1:A:793:ARG:N	2.50	0.45
1:A:992:PHE:HA	1:A:993:PRO:HB2	1.97	0.45
1:A:1010:GLU:O	1:A:1011:GLY:C	2.54	0.45
1:A:1108:PRO:HB3	1:A:1362:PRO:HB2	1.97	0.45
1:A:1271:GLN:O	1:A:1272:ASN:C	2.55	0.45
1:A:1299:LYS:HZ3	1:A:1323:LYS:NZ	2.09	0.45
1:A:1418:VAL:HG11	1:A:1647:GLY:H	1.81	0.45
1:A:1457:ALA:O	1:A:1459:ILE:N	2.49	0.45
1:A:1478:PRO:O	1:A:1479:SER:HB3	2.16	0.45
1:A:1616:LYS:C	1:A:1618:LEU:H	2.20	0.45
1:A:1620:GLN:O	1:A:1621:PHE:CD1	2.70	0.45
2:B:11:LEU:O	2:B:12:SER:C	2.54	0.45
2:B:797:UNK:O	2:B:799:UNK:N	2.48	0.45
2:B:1336:UNK:O	2:B:1340:UNK:CB	2.64	0.45
2:B:1681:TYR:C	2:B:1681:TYR:HD2	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1715:VAL:CG2	2:B:1770:LEU:N	2.80	0.45
2:B:1804:PHE:CD1	2:B:1804:PHE:N	2.85	0.45
1:D:448:UNK:C	1:D:450:UNK:N	2.79	0.45
1:D:458:UNK:CB	1:D:1631:LEU:HG	2.47	0.45
1:D:669:UNK:O	1:D:670:UNK:O	2.34	0.45
1:D:718:TYR:H	1:D:718:TYR:HD1	1.63	0.45
1:D:743:GLN:O	1:D:744:ASP:C	2.55	0.45
1:D:819:PRO:HA	1:D:861:GLN:HA	1.98	0.45
1:D:871:TRP:CZ2	1:D:881:ASN:HB2	2.50	0.45
1:D:1087:LYS:HE3	1:D:1089:VAL:HG13	1.99	0.45
1:D:1112:ASN:CA	1:D:1114:TYR:HB2	2.45	0.45
1:D:1158:PRO:CG	1:D:1159:GLU:N	2.74	0.45
1:D:1195:ALA:O	1:D:1196:LYS:NZ	2.46	0.45
1:D:1226:SER:O	1:D:1227:GLY:C	2.54	0.45
1:D:1284:SER:HB2	1:D:1298:ILE:HD11	1.99	0.45
1:D:1316:VAL:HG13	1:D:1317:GLU:N	2.31	0.45
1:D:1432:HIS:HB3	1:D:1433:HIS:H	1.61	0.45
1:D:1487:LEU:C	1:D:1490:THR:HG22	2.37	0.45
1:D:1609:ARG:HE	1:D:1610:ASN:C	2.20	0.45
2:E:12:SER:O	2:E:13:HIS:C	2.53	0.45
2:E:60:LEU:HD11	2:E:121:GLU:OE2	2.17	0.45
2:E:161:GLY:CA	2:E:512:LEU:HD12	2.46	0.45
2:E:274:SER:C	2:E:276:GLY:H	2.19	0.45
2:E:281:VAL:O	2:E:283:ILE:N	2.50	0.45
2:E:367:GLU:HB2	2:E:430:HIS:ND1	2.29	0.45
2:E:452:ALA:C	2:E:454:ASP:H	2.20	0.45
2:E:1220:UNK:C	2:E:1222:UNK:H	2.29	0.45
2:E:1689:ASP:O	2:E:1690:VAL:C	2.55	0.45
2:E:1830:VAL:C	2:E:1832:PHE:N	2.68	0.45
2:E:1833:TYR:C	2:E:1835:GLY:N	2.69	0.45
1:G:141:UNK:C	1:G:143:UNK:N	2.79	0.45
1:G:370:UNK:O	1:G:371:UNK:C	2.65	0.45
1:G:520:UNK:C	1:G:522:UNK:N	2.80	0.45
1:G:719:GLN:OE1	1:G:1611:ALA:HB1	2.17	0.45
1:G:1139:GLU:HG2	1:G:1140:THR:N	2.32	0.45
1:G:1258:ARG:HD3	1:G:1338:GLU:OE2	2.17	0.45
1:G:1307:THR:O	1:G:1308:SER:OG	2.29	0.45
1:G:1519:ILE:HD13	1:G:1521:PRO:HD2	1.96	0.45
1:G:1687:PHE:O	1:G:1690:ASN:HB3	2.16	0.45
2:H:241:ILE:HA	2:H:244:ILE:CD1	2.46	0.45
2:H:246:LEU:HD23	2:H:279:THR:HG23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:252:THR:H	2:H:252:THR:HG1	1.57	0.45
2:H:323:ILE:O	2:H:325:GLU:N	2.50	0.45
2:H:543:PHE:C	2:H:545:GLN:H	2.20	0.45
2:H:1335:UNK:C	2:H:1337:UNK:N	2.76	0.45
2:H:1681:TYR:C	2:H:1681:TYR:HD2	2.19	0.45
2:H:1812:TYR:O	2:H:1814:ALA:N	2.38	0.45
2:H:1939:HIS:CD2	2:H:1940:LEU:H	2.31	0.45
3:I:53:UNK:O	3:I:55:UNK:N	2.49	0.45
1:A:481:UNK:O	1:A:483:UNK:N	2.50	0.45
1:A:752:ILE:HG23	1:A:761:LEU:HD21	1.98	0.45
1:A:781:LEU:O	1:A:782:GLU:O	2.35	0.45
1:A:1138:LYS:HG2	1:A:1139:GLU:H	1.81	0.45
1:A:1139:GLU:CG	1:A:1140:THR:H	2.29	0.45
1:A:1168:LEU:HD13	1:A:1169:LYS:CB	2.40	0.45
1:A:1360:ARG:O	1:A:1361:THR:O	2.35	0.45
1:A:1398:VAL:HG11	1:A:1400:ILE:HG23	1.98	0.45
1:A:1408:ALA:O	1:A:1409:THR:CG2	2.58	0.45
1:A:1424:GLY:C	1:A:1426:LEU:N	2.69	0.45
1:A:1448:ARG:C	1:A:1451:GLN:HB3	2.36	0.45
1:A:1550:ASP:O	1:A:1551:LYS:O	2.33	0.45
1:A:1609:ARG:NE	1:A:1610:ASN:N	2.61	0.45
2:B:234:ILE:CG1	2:B:307:GLY:HA2	2.47	0.45
2:B:301:THR:O	2:B:304:PHE:HB3	2.16	0.45
2:B:323:ILE:O	2:B:325:GLU:N	2.50	0.45
2:B:439:ILE:O	2:B:443:LEU:HG	2.17	0.45
2:B:974:UNK:O	2:B:978:UNK:N	2.49	0.45
2:B:1162:UNK:C	2:B:1164:UNK:N	2.80	0.45
2:B:1234:UNK:O	2:B:1236:UNK:N	2.49	0.45
2:B:1555:UNK:O	2:B:1556:UNK:C	2.64	0.45
2:B:1738:PHE:HA	2:B:1755:ILE:HG13	1.98	0.45
2:B:1912:ASN:O	2:B:1913:VAL:CG2	2.64	0.45
2:B:1917:ILE:CG2	2:B:1918:LYS:H	2.17	0.45
2:B:2028:UNK:O	2:B:2029:UNK:C	2.64	0.45
1:D:752:ILE:HG23	1:D:761:LEU:HD21	1.99	0.45
1:D:1127:VAL:O	1:D:1177:LYS:HA	2.17	0.45
1:D:1176:PRO:C	1:D:1177:LYS:HG3	2.37	0.45
1:D:1221:GLU:HA	1:D:1224:ILE:CG2	2.46	0.45
1:D:1456:GLU:N	1:D:1459:ILE:HG12	2.23	0.45
1:D:1475:GLU:O	1:D:1478:PRO:CD	2.65	0.45
1:D:1475:GLU:OE1	1:D:1478:PRO:HG2	2.16	0.45
2:E:306:ILE:HG22	2:E:310:CYS:SG	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:325:GLU:O	2:E:328:LEU:N	2.50	0.45
2:E:527:VAL:HG11	2:E:544:LYS:HB2	1.98	0.45
2:E:1042:UNK:C	2:E:1044:UNK:N	2.80	0.45
2:E:1169:UNK:C	2:E:1171:UNK:H2	2.29	0.45
2:E:1334:UNK:C	2:E:1335:UNK:O	2.63	0.45
3:F:37:UNK:C	3:F:39:UNK:N	2.79	0.45
1:G:561:UNK:O	1:G:562:UNK:C	2.64	0.45
1:G:743:GLN:O	1:G:745:VAL:N	2.50	0.45
1:G:845:SER:O	1:G:847:GLU:N	2.50	0.45
1:G:911:PRO:O	1:G:913:VAL:N	2.50	0.45
1:G:961:THR:C	1:G:963:LEU:N	2.69	0.45
1:G:1112:ASN:CA	1:G:1114:TYR:HB2	2.47	0.45
1:G:1191:THR:OG1	1:G:1192:GLY:N	2.49	0.45
1:G:1394:LEU:HD23	1:G:1673:TYR:CD1	2.51	0.45
2:H:59:GLU:OE1	2:H:122:LEU:CA	2.65	0.45
2:H:383:PRO:O	2:H:384:GLN:O	2.34	0.45
2:H:699:UNK:O	2:H:702:UNK:N	2.50	0.45
2:H:1030:UNK:O	2:H:1031:UNK:CB	2.63	0.45
2:H:1787:ALA:O	2:H:1788:ALA:C	2.55	0.45
2:H:1830:VAL:C	2:H:1832:PHE:N	2.67	0.45
2:H:1835:GLY:O	2:H:1836:MET:C	2.54	0.45
2:H:1877:ARG:O	2:H:1878:VAL:HG13	2.16	0.45
1:A:370:UNK:O	1:A:371:UNK:C	2.65	0.45
1:A:523:UNK:C	1:A:525:UNK:N	2.77	0.45
1:A:676:LYS:O	1:A:677:TYR:O	2.35	0.45
1:A:856:GLU:HB2	1:A:858:TRP:NE1	2.32	0.45
1:A:1030:TRP:CZ2	1:A:1580:LEU:CD1	2.98	0.45
1:A:1290:LEU:HA	1:A:1701:LYS:CD	2.47	0.45
1:A:1414:ILE:O	1:A:1414:ILE:HG22	2.17	0.45
1:A:1475:GLU:HG3	1:A:1762:UNK:CB	2.47	0.45
1:A:1492:GLU:O	1:A:1496:GLU:OE1	2.34	0.45
1:A:1542:HIS:O	1:A:1544:THR:N	2.50	0.45
2:B:149:VAL:HG22	2:B:155:GLN:CA	2.47	0.45
2:B:217:GLU:C	2:B:219:LEU:N	2.69	0.45
2:B:599:UNK:HA	2:B:602:UNK:CB	2.47	0.45
2:B:1075:UNK:O	2:B:1076:UNK:CB	2.64	0.45
2:B:1265:UNK:O	2:B:1269:UNK:CB	2.65	0.45
2:B:1702:TYR:O	2:B:1703:GLY:O	2.33	0.45
2:B:1790:GLU:O	2:B:1791:ASP:C	2.55	0.45
2:B:1812:TYR:O	2:B:1814:ALA:N	2.41	0.45
1:D:711:SER:C	1:D:713:GLN:N	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:833:PHE:HD1	1:D:833:PHE:H	1.64	0.45
1:D:936:LEU:HD23	1:D:936:LEU:O	2.17	0.45
1:D:996:LYS:NZ	1:D:1400:ILE:HG13	2.32	0.45
1:D:1191:THR:OG1	1:D:1192:GLY:N	2.50	0.45
1:D:1230:ASP:O	1:D:1232:TYR:N	2.49	0.45
1:D:1246:CYS:HA	1:D:1327:CYS:SG	2.56	0.45
1:D:1394:LEU:HD23	1:D:1673:TYR:CD1	2.51	0.45
1:D:1423:LYS:HA	1:D:1552:ASN:OD1	2.16	0.45
1:D:1515:ARG:O	1:D:1516:ASP:C	2.54	0.45
2:E:11:LEU:O	2:E:12:SER:C	2.55	0.45
2:E:599:UNK:HA	2:E:602:UNK:CB	2.47	0.45
2:E:652:UNK:O	2:E:653:UNK:CB	2.65	0.45
2:E:1266:UNK:O	2:E:1267:UNK:C	2.64	0.45
2:E:1738:PHE:HA	2:E:1755:ILE:HG13	1.98	0.45
1:G:1353:LEU:HA	1:G:1356:PHE:HB3	1.97	0.45
1:G:1445:MET:O	1:G:1446:LYS:C	2.54	0.45
1:G:1491:ARG:O	1:G:1494:HIS:HB3	2.17	0.45
1:G:1615:ASP:OD1	1:G:1617:ILE:HG12	2.17	0.45
2:H:41:LEU:HB3	2:H:46:GLU:N	2.22	0.45
2:H:52:ASP:CG	2:H:53:GLU:N	2.70	0.45
2:H:56:THR:N	2:H:57:PRO:HD3	2.31	0.45
2:H:63:LYS:HD2	2:H:125:ASN:OD1	2.17	0.45
2:H:367:GLU:OE1	2:H:428:HIS:O	2.34	0.45
2:H:467:ASP:C	2:H:469:ARG:N	2.68	0.45
2:H:649:UNK:C	2:H:651:UNK:N	2.79	0.45
2:H:681:UNK:O	2:H:682:UNK:C	2.64	0.45
2:H:862:UNK:O	2:H:863:UNK:C	2.65	0.45
2:H:867:UNK:O	2:H:868:UNK:C	2.64	0.45
2:H:1742:VAL:HG21	2:H:1837:THR:HA	1.98	0.45
2:H:1878:VAL:CG1	2:H:1898:TYR:HE1	2.29	0.45
2:H:1927:LEU:CA	2:H:1930:SER:HB3	2.47	0.45
1:A:523:UNK:O	1:A:525:UNK:N	2.50	0.45
1:A:632:UNK:CB	1:A:894:ARG:NH1	2.74	0.45
1:A:682:GLY:O	1:A:683:ALA:O	2.35	0.45
1:A:718:TYR:CD1	1:A:718:TYR:N	2.84	0.45
1:A:724:LYS:C	1:A:725:TYR:HD1	2.20	0.45
1:A:843:LYS:O	1:A:846:LEU:HB2	2.17	0.45
1:A:1194:ASN:O	1:A:1195:ALA:CB	2.64	0.45
1:A:1264:ARG:NH2	1:A:1270:VAL:O	2.48	0.45
1:A:1579:PHE:HE2	1:A:1609:ARG:HB3	1.82	0.45
1:A:1665:ILE:HD12	1:A:1669:ARG:N	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1711:GLU:O	1:A:1712:GLU:C	2.55	0.45
2:B:52:ASP:CG	2:B:53:GLU:N	2.70	0.45
2:B:57:PRO:C	2:B:59:GLU:H	2.19	0.45
2:B:202:THR:O	2:B:202:THR:HG22	2.16	0.45
2:B:248:HIS:C	2:B:250:VAL:N	2.70	0.45
2:B:443:LEU:HB3	2:B:449:SER:HB3	1.95	0.45
2:B:649:UNK:O	2:B:650:UNK:C	2.64	0.45
2:B:1256:UNK:C	2:B:1258:UNK:N	2.79	0.45
2:B:1519:UNK:O	2:B:1521:UNK:N	2.50	0.45
2:B:1906:ALA:O	2:B:1910:VAL:HG23	2.17	0.45
1:D:426:UNK:O	1:D:430:UNK:CB	2.65	0.45
1:D:449:UNK:O	1:D:451:UNK:N	2.49	0.45
1:D:481:UNK:O	1:D:483:UNK:N	2.49	0.45
1:D:884:ILE:O	1:D:885:ALA:HB3	2.17	0.45
1:D:940:THR:HA	1:D:943:LEU:HD12	1.99	0.45
1:D:1067:LEU:CD2	1:D:1074:GLY:H	2.28	0.45
1:D:1079:LYS:C	1:D:1080:THR:HG1	2.20	0.45
1:D:1106:ILE:HA	1:D:1192:GLY:CA	2.44	0.45
1:D:1326:ILE:HG13	1:D:1388:MET:HG2	1.99	0.45
1:D:1448:ARG:C	1:D:1451:GLN:HB3	2.37	0.45
1:D:1475:GLU:HG3	1:D:1762:UNK:CB	2.46	0.45
1:D:1528:THR:O	1:D:1528:THR:HG23	2.16	0.45
1:D:1589:GLY:O	1:D:1592:MET:N	2.48	0.45
1:D:1640:SER:N	1:D:1654:ILE:HG13	2.31	0.45
2:E:56:THR:O	2:E:59:GLU:HB2	2.16	0.45
2:E:57:PRO:C	2:E:59:GLU:H	2.20	0.45
2:E:346:GLN:O	2:E:347:GLU:HB3	2.16	0.45
2:E:489:LYS:O	2:E:490:TRP:C	2.55	0.45
2:E:799:UNK:O	2:E:801:UNK:N	2.49	0.45
2:E:1234:UNK:O	2:E:1236:UNK:N	2.50	0.45
2:E:1256:UNK:C	2:E:1258:UNK:N	2.79	0.45
2:E:1691:TRP:O	2:E:1694:ALA:N	2.50	0.45
2:E:1715:VAL:CG2	2:E:1770:LEU:N	2.79	0.45
2:E:1929:LYS:CA	2:E:1929:LYS:HE2	2.47	0.45
1:G:717:TYR:CD2	1:G:718:TYR:CE1	3.01	0.45
1:G:810:LYS:C	1:G:812:ALA:N	2.70	0.45
1:G:864:VAL:O	1:G:865:CYS:HB2	2.17	0.45
1:G:1232:TYR:C	1:G:1234:MET:N	2.70	0.45
1:G:1329:VAL:HG11	1:G:1385:GLN:N	2.32	0.45
1:G:1604:ILE:HG23	1:G:1630:THR:HA	1.98	0.45
1:G:1618:LEU:HD22	1:G:1623:TYR:CZ	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:45:THR:CG2	2:H:46:GLU:OE1	2.65	0.45
2:H:56:THR:O	2:H:56:THR:HG22	2.15	0.45
2:H:209:PHE:O	2:H:210:THR:C	2.55	0.45
2:H:215:ILE:HG22	2:H:215:ILE:O	2.17	0.45
2:H:259:THR:O	2:H:261:GLY:N	2.49	0.45
2:H:387:TYR:O	2:H:390:ASN:N	2.49	0.45
2:H:390:ASN:O	2:H:393:LEU:HB3	2.15	0.45
2:H:525:VAL:O	2:H:526:ARG:C	2.55	0.45
2:H:577:UNK:O	2:H:579:UNK:N	2.49	0.45
2:H:956:UNK:C	2:H:958:UNK:N	2.73	0.45
2:H:1490:UNK:CB	2:H:1507:UNK:N	2.80	0.45
2:H:1691:TRP:CD2	2:H:1783:LEU:HD22	2.52	0.45
2:H:1968:UNK:C	2:H:1970:UNK:N	2.80	0.45
1:A:826:MET:CE	1:A:847:GLU:HG3	2.45	0.45
1:A:970:GLY:O	1:A:971:ASN:CB	2.65	0.45
1:A:1141:ALA:CA	1:A:1144:PHE:CE1	2.97	0.45
1:A:1142:GLU:N	1:A:1144:PHE:HE1	2.13	0.45
1:A:1341:PHE:C	1:A:1343:PHE:N	2.70	0.45
1:A:1525:ALA:C	1:A:1527:ALA:N	2.70	0.45
1:A:1677:VAL:C	1:A:1679:ALA:N	2.70	0.45
2:B:266:TYR:HD1	2:B:266:TYR:H	1.63	0.45
2:B:317:THR:HA	2:H:1307:UNK:CB	2.47	0.45
2:B:525:VAL:O	2:B:526:ARG:C	2.55	0.45
2:B:867:UNK:O	2:B:868:UNK:C	2.64	0.45
2:B:1420:UNK:O	2:B:1421:UNK:O	2.35	0.45
2:B:1557:UNK:O	2:B:1560:UNK:N	2.50	0.45
2:B:1585:UNK:O	2:B:1587:UNK:N	2.49	0.45
2:B:1742:VAL:HG12	2:B:1743:ASP:N	2.32	0.45
2:B:1742:VAL:HG23	2:B:1751:ILE:HD11	1.98	0.45
1:D:727:ALA:O	1:D:728:LYS:C	2.55	0.45
1:D:836:ASP:OD1	1:D:839:TYR:HB3	2.17	0.45
1:D:935:GLU:O	1:D:937:LYS:N	2.50	0.45
1:D:1010:GLU:OE1	1:D:1013:LEU:CD1	2.65	0.45
1:D:1220:VAL:C	1:D:1222:ALA:N	2.71	0.45
1:D:1360:ARG:O	1:D:1361:THR:O	2.35	0.45
1:D:1398:VAL:HG11	1:D:1400:ILE:HG23	1.99	0.45
1:D:1412:ASP:N	1:D:1412:ASP:OD1	2.50	0.45
1:D:1430:ARG:NH1	1:D:1652:GLN:HG3	2.31	0.45
1:D:1558:ASN:OD1	1:D:1621:PHE:CD2	2.70	0.45
1:D:1606:PRO:O	1:D:1626:TYR:C	2.55	0.45
1:D:1693:ILE:HG13	1:D:1694:TYR:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:248:HIS:O	2:E:251:VAL:N	2.50	0.45
2:E:259:THR:O	2:E:261:GLY:N	2.50	0.45
2:E:1045:UNK:C	2:E:1047:UNK:N	2.79	0.45
2:E:1055:UNK:O	2:E:1059:UNK:N	2.50	0.45
2:E:1173:UNK:CB	2:E:1180:UNK:CA	2.95	0.45
2:E:1874:VAL:HG22	2:E:1928:GLN:OE1	2.17	0.45
1:G:703:VAL:CG1	1:G:704:VAL:N	2.79	0.45
1:G:1158:PRO:CG	1:G:1159:GLU:N	2.77	0.45
1:G:1284:SER:HB2	1:G:1298:ILE:HD11	1.99	0.45
1:G:1492:GLU:O	1:G:1496:GLU:OE1	2.35	0.45
1:G:1502:ARG:O	1:G:1503:ALA:C	2.55	0.45
1:G:1639:VAL:CG2	1:G:1655:VAL:H	2.30	0.45
1:G:1642:THR:CA	1:G:1652:GLN:OE1	2.64	0.45
1:G:1677:VAL:C	1:G:1679:ALA:N	2.69	0.45
1:G:1693:ILE:HG13	1:G:1694:TYR:CD1	2.51	0.45
2:H:202:THR:O	2:H:202:THR:HG22	2.17	0.45
2:H:248:HIS:ND1	2:H:529:VAL:HG11	2.32	0.45
2:H:255:LEU:C	2:H:257:GLY:H	2.19	0.45
2:H:265:SER:OG	2:H:266:TYR:N	2.50	0.45
2:H:433:VAL:H	2:H:434:PRO:CD	2.19	0.45
2:H:1752:PHE:O	2:H:1755:ILE:HD11	2.17	0.45
3:I:37:UNK:C	3:I:39:UNK:N	2.80	0.45
1:A:602:UNK:O	1:A:603:UNK:O	2.35	0.45
1:A:935:GLU:O	1:A:937:LYS:N	2.49	0.45
1:A:1083:PRO:C	1:A:1085:ASP:H	2.20	0.45
1:A:1127:VAL:O	1:A:1177:LYS:HA	2.16	0.45
1:A:1307:THR:O	1:A:1308:SER:OG	2.31	0.45
1:A:1351:ASN:ND2	1:A:1354:GLU:HG3	2.32	0.45
1:A:1526:LEU:O	1:A:1530:GLY:O	2.35	0.45
1:A:1583:HIS:HE2	1:A:1588:ALA:HA	1.81	0.45
2:B:60:LEU:O	2:B:64:PHE:HB3	2.17	0.45
2:B:79:GLN:HB3	2:B:80:PHE:CD1	2.51	0.45
2:B:148:ALA:O	2:B:150:GLY:N	2.50	0.45
2:B:442:ASP:HA	2:B:445:LYS:HD2	1.98	0.45
2:B:467:ASP:C	2:B:469:ARG:N	2.70	0.45
2:B:1490:UNK:CB	2:B:1507:UNK:N	2.80	0.45
2:B:1854:MET:CE	2:B:1957:UNK:HA	2.47	0.45
2:B:1863:ALA:HA	2:B:1866:PHE:CG	2.51	0.45
2:B:2019:UNK:O	2:B:2020:UNK:C	2.64	0.45
1:D:1119:LYS:CE	1:D:1121:MET:HG3	2.45	0.45
1:D:1144:PHE:O	1:D:1147:GLN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1541:PHE:CD2	1:D:1553:GLU:OE2	2.70	0.45
1:D:1616:LYS:C	1:D:1618:LEU:H	2.19	0.45
1:D:1739:GLN:O	1:D:1740:SER:C	2.56	0.45
2:E:45:THR:CG2	2:E:46:GLU:OE1	2.63	0.45
2:E:63:LYS:HD2	2:E:125:ASN:OD1	2.17	0.45
2:E:131:ILE:CD1	2:E:182:VAL:HG13	2.41	0.45
2:E:234:ILE:CG2	2:E:311:TYR:HD1	2.30	0.45
2:E:323:ILE:O	2:E:325:GLU:N	2.50	0.45
2:E:366:VAL:HG22	2:E:381:GLY:CA	2.30	0.45
2:E:1056:UNK:C	2:E:1058:UNK:N	2.77	0.45
2:E:1672:GLN:HB3	2:E:1781:LEU:HG	1.99	0.45
1:G:444:UNK:CB	1:G:1613:ASN:OD1	2.65	0.45
1:G:791:ALA:O	1:G:793:ARG:N	2.50	0.45
1:G:858:TRP:C	1:G:861:GLN:HE21	2.20	0.45
1:G:936:LEU:HD23	1:G:936:LEU:O	2.17	0.45
1:G:996:LYS:NZ	1:G:1400:ILE:HG13	2.32	0.45
1:G:1000:GLN:C	1:G:1002:LYS:H	2.16	0.45
1:G:1142:GLU:CA	1:G:1145:LYS:HB2	2.45	0.45
1:G:1254:VAL:CG2	1:G:1255:SER:H	2.07	0.45
1:G:1304:ALA:O	1:G:1305:CYS:HB3	2.17	0.45
1:G:1321:SER:O	1:G:1323:LYS:N	2.45	0.45
1:G:1329:VAL:CG1	1:G:1385:GLN:O	2.65	0.45
1:G:1351:ASN:C	1:G:1352:THR:O	2.46	0.45
1:G:1426:LEU:HD13	1:G:1650:GLY:HA3	1.97	0.45
1:G:1447:TYR:HB3	1:G:1448:ARG:H	1.43	0.45
1:G:1452:LEU:O	1:G:1456:GLU:CB	2.58	0.45
2:H:217:GLU:C	2:H:219:LEU:N	2.71	0.45
2:H:432:LEU:HG	2:H:484:ILE:HB	1.98	0.45
2:H:1234:UNK:O	2:H:1236:UNK:N	2.49	0.45
2:H:1691:TRP:O	2:H:1694:ALA:N	2.50	0.45
1:A:404:UNK:O	1:A:407:UNK:N	2.50	0.44
1:A:961:THR:C	1:A:963:LEU:N	2.70	0.44
1:A:993:PRO:HA	1:A:1681:GLU:OE1	2.17	0.44
1:A:998:TYR:O	1:A:1001:VAL:HB	2.16	0.44
1:A:1067:LEU:HD21	1:A:1073:THR:C	2.37	0.44
1:A:1213:LEU:O	1:A:1214:PHE:C	2.54	0.44
1:A:1245:ASN:O	1:A:1246:CYS:O	2.34	0.44
1:A:1251:MET:HE1	1:A:1585:LYS:HE2	2.00	0.44
1:A:1304:ALA:O	1:A:1305:CYS:HB3	2.18	0.44
1:A:1661:LEU:O	1:A:1662:TYR:CG	2.70	0.44
2:B:255:LEU:C	2:B:257:GLY:H	2.19	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:330:ASN:O	2:B:330:ASN:ND2	2.51	0.44
2:B:393:LEU:HG	2:B:418:ASN:OD1	2.17	0.44
2:B:429:SER:OG	2:B:432:LEU:CB	2.65	0.44
2:B:1220:UNK:C	2:B:1222:UNK:H	2.28	0.44
2:B:1304:UNK:O	2:E:318:SER:OG	2.25	0.44
2:B:1584:UNK:O	2:B:1586:UNK:N	2.50	0.44
2:B:1897:GLN:C	2:B:1899:VAL:N	2.71	0.44
1:D:521:UNK:O	1:D:523:UNK:N	2.51	0.44
1:D:591:UNK:O	1:D:592:UNK:C	2.65	0.44
1:D:798:ASN:O	1:D:799:ILE:C	2.55	0.44
1:D:867:ALA:HB1	1:D:905:LEU:CD1	2.46	0.44
1:D:913:VAL:O	1:D:916:LEU:HB3	2.17	0.44
1:D:1188:GLN:N	1:D:1188:GLN:CD	2.71	0.44
1:D:1264:ARG:NH2	1:D:1270:VAL:O	2.50	0.44
1:D:1376:PHE:CG	1:D:1377:MET:N	2.85	0.44
1:D:1528:THR:C	1:D:1529:TYR:CD1	2.90	0.44
1:D:1539:ALA:CB	1:D:1640:SER:O	2.65	0.44
1:D:1579:PHE:HE2	1:D:1609:ARG:HB3	1.81	0.44
1:D:1584:PRO:HG2	1:D:1584:PRO:O	2.17	0.44
1:D:1625:LEU:C	1:D:1625:LEU:CD2	2.85	0.44
2:E:234:ILE:CD1	2:E:310:CYS:HB2	2.47	0.44
2:E:246:LEU:CD2	2:E:279:THR:HG23	2.46	0.44
2:E:265:SER:OG	2:E:266:TYR:N	2.50	0.44
2:E:535:ILE:HB	2:E:536:ASN:H	1.39	0.44
2:E:1691:TRP:CE3	2:E:1783:LEU:HD13	2.52	0.44
2:E:1737:ILE:HD12	2:E:1755:ILE:HG21	1.99	0.44
2:E:1792:LEU:N	2:E:1792:LEU:HD23	2.32	0.44
2:E:1897:GLN:C	2:E:1899:VAL:N	2.70	0.44
1:G:173:UNK:O	1:G:174:UNK:C	2.65	0.44
1:G:563:UNK:O	1:G:564:UNK:C	2.65	0.44
1:G:858:TRP:CZ3	1:G:862:LEU:HB2	2.52	0.44
1:G:1067:LEU:HD21	1:G:1073:THR:C	2.37	0.44
1:G:1173:LEU:O	1:G:1174:TYR:CB	2.65	0.44
1:G:1213:LEU:O	1:G:1214:PHE:C	2.56	0.44
1:G:1247:SER:O	1:G:1248:GLY:O	2.35	0.44
1:G:1258:ARG:HH11	1:G:1258:ARG:CG	2.23	0.44
1:G:1360:ARG:O	1:G:1361:THR:O	2.35	0.44
1:G:1583:HIS:CG	1:G:1585:LYS:N	2.80	0.44
1:G:1652:GLN:CD	1:G:1653:ALA:H	2.21	0.44
1:G:1701:LYS:CD	1:G:1701:LYS:N	2.80	0.44
1:G:1701:LYS:O	1:G:1702:GLU:O	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:37:PHE:CD1	2:H:49:ALA:HB3	2.52	0.44
2:H:213:LEU:O	2:H:215:ILE:N	2.42	0.44
2:H:267:LEU:CD2	2:H:457:ILE:HD13	2.47	0.44
2:H:279:THR:HG22	2:H:283:ILE:HD12	1.99	0.44
2:H:330:ASN:OD1	2:H:394:ARG:HG2	2.17	0.44
2:H:408:PRO:HD3	2:H:731:UNK:O	2.17	0.44
2:H:898:UNK:C	2:H:900:UNK:N	2.77	0.44
2:H:905:UNK:C	2:H:907:UNK:N	2.80	0.44
2:H:1295:UNK:O	2:H:1298:UNK:N	2.51	0.44
2:H:1421:UNK:O	2:H:1423:UNK:N	2.50	0.44
2:H:1772:SER:C	2:H:1774:THR:H	2.19	0.44
1:A:684:GLY:C	1:A:686:GLY:N	2.68	0.44
1:A:1022:THR:O	1:A:1226:SER:HB2	2.17	0.44
1:A:1189:ILE:CB	1:A:1190:PRO:HD3	2.47	0.44
1:A:1274:ILE:O	1:A:1275:LEU:C	2.55	0.44
1:A:1408:ALA:CA	1:A:1652:GLN:O	2.65	0.44
1:A:1428:THR:O	1:A:1428:THR:HG22	2.18	0.44
1:A:1461:ASP:O	1:A:1462:TRP:C	2.55	0.44
1:A:1502:ARG:O	1:A:1503:ALA:C	2.55	0.44
2:B:19:VAL:O	2:B:23:PRO:HD3	2.17	0.44
2:B:188:ILE:O	2:B:189:LYS:C	2.56	0.44
2:B:273:HIS:CE1	2:B:488:VAL:HG11	2.52	0.44
2:B:347:GLU:HA	2:B:350:GLN:HB3	1.98	0.44
2:B:578:UNK:C	2:B:580:UNK:N	2.80	0.44
2:B:674:UNK:O	2:B:675:UNK:C	2.65	0.44
2:B:1067:UNK:O	2:B:1069:UNK:N	2.50	0.44
2:B:1146:UNK:O	2:B:1147:UNK:C	2.66	0.44
2:B:1867:SER:O	2:B:1871:LEU:HB3	2.18	0.44
1:D:680:ILE:HG23	1:D:769:ILE:HD13	2.00	0.44
1:D:680:ILE:HD12	1:D:704:VAL:O	2.16	0.44
1:D:791:ALA:O	1:D:793:ARG:N	2.50	0.44
1:D:839:TYR:CE1	1:D:843:LYS:CE	3.00	0.44
1:D:873:ARG:HD2	1:D:882:ASN:HA	1.99	0.44
1:D:1190:PRO:O	1:D:1191:THR:CG2	2.65	0.44
1:D:1274:ILE:O	1:D:1275:LEU:C	2.55	0.44
1:D:1286:TRP:HD1	1:D:1290:LEU:HD11	1.82	0.44
1:D:1423:LYS:N	1:D:1425:ILE:HB	2.31	0.44
1:D:1457:ALA:O	1:D:1459:ILE:N	2.50	0.44
1:D:1577:GLN:CD	1:D:1592:MET:HA	2.38	0.44
1:D:1583:HIS:CG	1:D:1585:LYS:N	2.81	0.44
2:E:52:ASP:CG	2:E:53:GLU:N	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:95:TYR:O	2:E:104:LEU:HD13	2.17	0.44
2:E:174:ARG:HA	2:E:219:LEU:HD22	1.99	0.44
2:E:401:GLY:O	2:E:402:LEU:C	2.56	0.44
2:E:877:UNK:O	2:E:878:UNK:C	2.65	0.44
2:E:1265:UNK:O	2:E:1269:UNK:CB	2.65	0.44
2:E:1893:VAL:C	2:E:1894:GLU:O	2.55	0.44
1:G:620:UNK:O	1:G:621:UNK:C	2.66	0.44
1:G:693:LEU:O	1:G:695:GLY:N	2.50	0.44
1:G:1243:VAL:CG1	1:G:1325:ARG:H	2.22	0.44
1:G:1274:ILE:O	1:G:1275:LEU:C	2.56	0.44
1:G:1371:THR:C	1:G:1373:ARG:N	2.70	0.44
1:G:1423:LYS:N	1:G:1425:ILE:HB	2.33	0.44
1:G:1457:ALA:O	1:G:1459:ILE:N	2.50	0.44
1:G:1616:LYS:C	1:G:1618:LEU:N	2.71	0.44
1:G:1700:SER:HB3	1:G:1702:GLU:OE2	2.17	0.44
2:H:13:HIS:O	2:H:15:SER:N	2.51	0.44
2:H:119:THR:O	2:H:122:LEU:HB3	2.16	0.44
2:H:122:LEU:O	2:H:125:ASN:HB2	2.17	0.44
2:H:160:PHE:CZ	2:H:283:ILE:HD12	2.51	0.44
2:H:273:HIS:CE1	2:H:488:VAL:HG11	2.52	0.44
2:H:470:VAL:O	2:H:470:VAL:HG12	2.17	0.44
2:H:517:HIS:CE1	2:H:538:ASP:OD1	2.71	0.44
2:H:926:UNK:O	2:H:927:UNK:C	2.65	0.44
2:H:1705:SER:O	2:H:1708:ASP:HB3	2.16	0.44
2:H:1897:GLN:O	2:H:1899:VAL:N	2.50	0.44
2:H:1907:LEU:H	2:H:1907:LEU:CD2	2.12	0.44
2:H:1933:LEU:HA	2:H:1936:VAL:CG1	2.48	0.44
1:A:458:UNK:CB	1:A:1631:LEU:HG	2.47	0.44
1:A:893:VAL:O	1:A:893:VAL:HG12	2.18	0.44
1:A:1210:PRO:HB3	1:A:1255:SER:CB	2.32	0.44
1:A:1312:VAL:O	1:A:1313:ASP:C	2.55	0.44
1:A:1342:GLU:C	1:A:1343:PHE:O	2.51	0.44
1:A:1641:ILE:HG12	1:A:1642:THR:H	1.83	0.44
2:B:49:ALA:N	2:B:118:LYS:HZ2	2.13	0.44
2:B:274:SER:C	2:B:276:GLY:H	2.19	0.44
2:B:379:VAL:HG12	2:B:380:SER:N	2.31	0.44
2:B:408:PRO:HD3	2:B:731:UNK:O	2.18	0.44
2:B:577:UNK:O	2:B:579:UNK:N	2.50	0.44
2:B:843:UNK:O	2:B:846:UNK:N	2.50	0.44
2:B:1056:UNK:O	2:B:1057:UNK:C	2.62	0.44
2:B:1487:UNK:HA	2:B:1509:UNK:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1712:ASN:O	2:B:1714:PRO:HD3	2.17	0.44
2:B:1734:SER:O	2:B:1735:ALA:C	2.56	0.44
2:B:1884:TRP:CZ3	2:B:2051:UNK:HA	2.52	0.44
2:B:1939:HIS:CD2	2:B:1940:LEU:H	2.34	0.44
2:B:2004:UNK:O	2:B:2005:UNK:C	2.66	0.44
1:D:451:UNK:O	1:D:452:UNK:C	2.66	0.44
1:D:643:UNK:C	1:D:645:UNK:N	2.78	0.44
1:D:886:GLU:C	1:D:888:ILE:H	2.21	0.44
1:D:1109:GLU:OE1	1:D:1109:GLU:HA	2.16	0.44
1:D:1173:LEU:O	1:D:1174:TYR:O	2.35	0.44
1:D:1461:ASP:O	1:D:1462:TRP:C	2.55	0.44
1:D:1466:GLU:O	1:D:1469:ALA:N	2.50	0.44
1:D:1553:GLU:C	1:D:1555:ALA:N	2.70	0.44
1:D:1589:GLY:O	1:D:1590:ALA:C	2.56	0.44
1:D:1639:VAL:CG2	1:D:1655:VAL:H	2.30	0.44
1:D:1659:ASP:CA	1:D:1662:TYR:HD2	2.21	0.44
2:E:209:PHE:CE1	2:E:235:PRO:HB2	2.53	0.44
2:E:375:LYS:HG3	2:E:376:ASN:N	2.29	0.44
2:E:387:TYR:HA	2:E:390:ASN:ND2	2.18	0.44
2:E:512:LEU:O	2:E:513:GLY:C	2.55	0.44
2:E:517:HIS:CD2	2:E:526:ARG:HH21	2.34	0.44
2:E:627:UNK:C	2:E:629:UNK:N	2.80	0.44
2:E:721:UNK:O	2:E:722:UNK:O	2.35	0.44
2:E:862:UNK:O	2:E:863:UNK:C	2.66	0.44
2:E:1173:UNK:CB	2:E:1181:UNK:N	2.73	0.44
2:E:1856:ALA:C	2:E:1857:ILE:CG1	2.85	0.44
3:F:53:UNK:O	3:F:54:UNK:C	2.63	0.44
1:G:792:HIS:ND1	1:G:796:LEU:HD21	2.33	0.44
1:G:1036:ARG:HE	1:G:1036:ARG:C	2.20	0.44
1:G:1141:ALA:CA	1:G:1144:PHE:CE1	2.97	0.44
1:G:1160:THR:CB	1:G:1166:LYS:HE3	2.43	0.44
1:G:1260:MET:SD	1:G:1275:LEU:HD23	2.57	0.44
1:G:1453:VAL:O	1:G:1457:ALA:CB	2.65	0.44
1:G:1522:LEU:C	1:G:1524:GLY:N	2.69	0.44
1:G:1661:LEU:O	1:G:1662:TYR:CG	2.70	0.44
2:H:56:THR:O	2:H:59:GLU:HB2	2.17	0.44
2:H:248:HIS:O	2:H:249:TYR:C	2.56	0.44
2:H:1903:ASP:O	2:H:1904:LEU:C	2.55	0.44
2:H:2036:UNK:O	2:H:2039:UNK:N	2.51	0.44
1:A:388:UNK:O	1:A:391:UNK:N	2.51	0.44
1:A:1453:VAL:HG12	1:A:1454:THR:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1780:UNK:C	1:A:1782:UNK:N	2.78	0.44
1:A:1793:UNK:C	1:A:1795:UNK:N	2.80	0.44
2:B:212:GLY:O	2:B:218:TRP:HZ2	2.00	0.44
2:B:234:ILE:HG12	2:B:307:GLY:HA2	1.98	0.44
2:B:633:UNK:O	2:B:635:UNK:N	2.50	0.44
2:B:1056:UNK:C	2:B:1058:UNK:N	2.77	0.44
2:B:1173:UNK:CB	2:B:1180:UNK:CA	2.96	0.44
2:B:1672:GLN:HB3	2:B:1781:LEU:HG	1.99	0.44
2:B:1686:ALA:O	2:B:1687:ALA:C	2.55	0.44
3:C:56:UNK:C	3:C:58:UNK:N	2.79	0.44
1:D:434:UNK:O	1:D:435:UNK:CB	2.66	0.44
1:D:680:ILE:HG23	1:D:769:ILE:HG21	1.98	0.44
1:D:990:LEU:O	1:D:991:ASP:O	2.35	0.44
1:D:1036:ARG:HH21	1:D:1040:GLU:HB3	1.83	0.44
1:D:1036:ARG:O	1:D:1039:MET:N	2.50	0.44
1:D:1453:VAL:HG12	1:D:1454:THR:N	2.33	0.44
1:D:1504:ALA:O	1:D:1506:GLN:N	2.51	0.44
1:D:1620:GLN:O	1:D:1621:PHE:CD1	2.70	0.44
2:E:31:SER:O	2:E:34:GLN:N	2.50	0.44
2:E:70:SER:O	2:E:76:LYS:HB2	2.18	0.44
2:E:149:VAL:O	2:E:266:TYR:CD2	2.71	0.44
2:E:168:ASP:CB	2:E:171:GLU:HB2	2.30	0.44
2:E:335:PRO:O	2:E:336:SER:O	2.35	0.44
2:E:431:LEU:HD23	2:E:431:LEU:H	1.80	0.44
2:E:479:ILE:O	2:E:479:ILE:HG22	2.17	0.44
2:E:488:VAL:O	2:E:490:TRP:N	2.51	0.44
2:E:843:UNK:O	2:E:846:UNK:N	2.51	0.44
2:E:1706:ILE:O	2:E:1709:ILE:N	2.50	0.44
2:E:1854:MET:CE	2:E:1957:UNK:HA	2.47	0.44
2:E:1861:ARG:O	2:E:1862:VAL:HB	2.17	0.44
2:E:1906:ALA:O	2:E:1910:VAL:HG23	2.17	0.44
1:G:426:UNK:O	1:G:427:UNK:C	2.65	0.44
1:G:455:UNK:O	1:G:459:UNK:N	2.50	0.44
1:G:752:ILE:O	1:G:761:LEU:O	2.35	0.44
1:G:1230:ASP:O	1:G:1232:TYR:N	2.50	0.44
1:G:1271:GLN:O	1:G:1272:ASN:C	2.55	0.44
1:G:1284:SER:HB3	1:G:1298:ILE:HD11	1.99	0.44
1:G:1349:THR:O	1:G:1376:PHE:N	2.50	0.44
1:G:1609:ARG:CD	1:G:1611:ALA:HB3	2.48	0.44
2:H:73:GLU:O	2:H:75:SER:N	2.47	0.44
2:H:335:PRO:O	2:H:336:SER:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:461:ASP:HB2	2:H:464:ASP:O	2.18	0.44
2:H:1343:UNK:O	2:H:1344:UNK:CB	2.64	0.44
2:H:1804:PHE:N	2:H:1804:PHE:CD1	2.85	0.44
2:H:1809:LEU:C	2:H:1811:GLU:N	2.69	0.44
1:A:434:UNK:O	1:A:435:UNK:CB	2.66	0.44
1:A:521:UNK:O	1:A:523:UNK:N	2.50	0.44
1:A:1112:ASN:CA	1:A:1114:TYR:HB2	2.48	0.44
1:A:1303:GLY:O	1:A:1304:ALA:O	2.36	0.44
1:A:1544:THR:C	1:A:1546:THR:H	2.21	0.44
2:B:63:LYS:HD2	2:B:125:ASN:OD1	2.17	0.44
2:B:259:THR:O	2:B:262:GLU:N	2.50	0.44
2:B:281:VAL:O	2:B:283:ILE:N	2.50	0.44
2:B:371:VAL:O	2:B:371:VAL:CG1	2.63	0.44
2:B:408:PRO:CG	2:B:409:PHE:N	2.80	0.44
2:B:692:UNK:N	2:B:716:UNK:CB	2.81	0.44
2:B:760:UNK:O	2:B:761:UNK:C	2.66	0.44
2:B:928:UNK:O	2:B:931:UNK:N	2.50	0.44
2:B:1757:GLU:HB2	2:B:1758:HIS:H	1.55	0.44
2:B:1822:MET:HE1	2:B:1830:VAL:CG1	2.48	0.44
3:C:53:UNK:O	3:C:54:UNK:C	2.63	0.44
1:D:455:UNK:O	1:D:459:UNK:N	2.50	0.44
1:D:613:UNK:O	1:D:614:UNK:O	2.36	0.44
1:D:622:UNK:C	1:D:624:UNK:N	2.80	0.44
1:D:692:VAL:HG22	1:D:902:ALA:HB1	2.00	0.44
1:D:873:ARG:HG3	1:D:874:GLY:N	2.29	0.44
1:D:1057:MET:HE3	1:D:1193:TRP:O	2.17	0.44
1:D:1173:LEU:O	1:D:1174:TYR:CB	2.65	0.44
1:D:1223:PHE:HE2	1:D:1386:ILE:CG2	2.14	0.44
1:D:1246:CYS:HB2	1:D:1329:VAL:O	2.17	0.44
1:D:1316:VAL:CG1	1:D:1317:GLU:N	2.79	0.44
1:D:1351:ASN:ND2	1:D:1354:GLU:HG3	2.33	0.44
1:D:1393:ALA:HB1	1:D:1398:VAL:HG11	1.98	0.44
1:D:1562:LYS:NZ	1:D:1621:PHE:CZ	2.73	0.44
2:E:101:ILE:HG13	2:E:126:TYR:CG	2.53	0.44
2:E:202:THR:O	2:E:202:THR:HG22	2.17	0.44
2:E:233:SER:HA	2:E:424:ALA:CB	2.48	0.44
2:E:279:THR:HG22	2:E:283:ILE:HD12	1.99	0.44
2:E:429:SER:OG	2:E:432:LEU:CB	2.65	0.44
2:E:649:UNK:C	2:E:651:UNK:N	2.80	0.44
2:E:796:UNK:O	2:E:797:UNK:O	2.35	0.44
2:E:917:UNK:O	2:E:919:UNK:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1220:UNK:C	2:E:1222:UNK:N	2.79	0.44
1:G:426:UNK:O	1:G:430:UNK:CB	2.65	0.44
1:G:523:UNK:O	1:G:525:UNK:N	2.50	0.44
1:G:684:GLY:CA	1:G:718:TYR:OH	2.66	0.44
1:G:788:SER:O	1:G:791:ALA:HB3	2.17	0.44
1:G:861:GLN:C	1:G:862:LEU:HD23	2.37	0.44
1:G:1198:TYR:CE2	1:G:1217:VAL:CG1	3.00	0.44
1:G:1303:GLY:O	1:G:1304:ALA:C	2.56	0.44
1:G:1391:ASP:O	1:G:1393:ALA:N	2.51	0.44
1:G:1448:ARG:C	1:G:1451:GLN:HB3	2.37	0.44
1:G:1471:LYS:O	1:G:1474:ALA:CB	2.65	0.44
1:G:1526:LEU:O	1:G:1530:GLY:O	2.35	0.44
2:H:52:ASP:HB2	2:H:113:ASP:OD2	2.18	0.44
2:H:75:SER:C	2:H:77:VAL:N	2.68	0.44
2:H:431:LEU:HD23	2:H:431:LEU:H	1.82	0.44
2:H:557:UNK:O	2:H:777:UNK:CB	2.66	0.44
2:H:1266:UNK:O	2:H:1267:UNK:C	2.64	0.44
2:H:1686:ALA:O	2:H:1687:ALA:C	2.56	0.44
2:H:1778:GLN:NE2	2:H:1835:GLY:HA2	2.32	0.44
1:A:871:TRP:CZ2	1:A:881:ASN:HB2	2.52	0.44
1:A:920:SER:CB	1:A:921:PRO:HD2	2.38	0.44
1:A:1073:THR:CG2	1:A:1074:GLY:H	2.30	0.44
1:A:1080:THR:HG1	1:A:1083:PRO:HD2	1.82	0.44
1:A:1150:ASP:HB3	1:A:1151:LYS:H	1.67	0.44
1:A:1258:ARG:HG2	1:A:1258:ARG:NH1	2.26	0.44
1:A:1358:HIS:HB3	1:A:1359:GLY:H	1.59	0.44
1:A:1389:GLN:O	1:A:1390:ALA:CB	2.66	0.44
1:A:1459:ILE:HG22	1:A:1500:GLN:OE1	2.17	0.44
1:A:1539:ALA:CB	1:A:1640:SER:O	2.65	0.44
1:A:1541:PHE:O	1:A:1542:HIS:CB	2.50	0.44
1:A:1609:ARG:HE	1:A:1610:ASN:C	2.21	0.44
1:A:1693:ILE:HG13	1:A:1694:TYR:CD1	2.52	0.44
1:A:1700:SER:HA	1:A:1701:LYS:HE3	1.99	0.44
1:A:1739:GLN:O	1:A:1740:SER:C	2.56	0.44
1:A:1741:LYS:O	1:A:1743:SER:N	2.45	0.44
2:B:298:LYS:O	2:B:299:ALA:C	2.55	0.44
2:B:479:ILE:O	2:B:479:ILE:HG22	2.17	0.44
2:B:996:UNK:O	2:B:998:UNK:N	2.50	0.44
2:B:1235:UNK:O	2:B:1236:UNK:CB	2.65	0.44
2:B:1304:UNK:O	2:B:1305:UNK:O	2.35	0.44
2:B:1638:UNK:N	2:B:1655:UNK:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1826:SER:O	2:B:1827:LEU:C	2.55	0.44
2:B:1932:SER:O	2:B:1936:VAL:HG12	2.18	0.44
1:D:711:SER:O	1:D:714:VAL:N	2.50	0.44
1:D:807:LYS:C	1:D:807:LYS:CD	2.86	0.44
1:D:858:TRP:C	1:D:861:GLN:HE21	2.21	0.44
1:D:861:GLN:C	1:D:862:LEU:HD23	2.36	0.44
1:D:933:VAL:HA	1:D:934:PRO:HD3	1.65	0.44
1:D:961:THR:C	1:D:963:LEU:N	2.70	0.44
1:D:1047:LEU:O	1:D:1051:VAL:HG23	2.17	0.44
1:D:1138:LYS:HG2	1:D:1139:GLU:H	1.83	0.44
1:D:1349:THR:O	1:D:1376:PHE:N	2.50	0.44
1:D:1491:ARG:O	1:D:1494:HIS:HB3	2.17	0.44
1:D:1741:LYS:O	1:D:1743:SER:N	2.45	0.44
2:E:209:PHE:O	2:E:210:THR:C	2.54	0.44
2:E:212:GLY:O	2:E:218:TRP:HZ2	2.00	0.44
2:E:241:ILE:HA	2:E:244:ILE:CD1	2.48	0.44
2:E:330:ASN:OD1	2:E:394:ARG:HG2	2.18	0.44
2:E:354:ASN:O	2:E:356:THR:N	2.51	0.44
2:E:442:ASP:HA	2:E:445:LYS:HD2	1.98	0.44
2:E:744:UNK:O	2:E:746:UNK:N	2.51	0.44
2:E:1487:UNK:HA	2:E:1509:UNK:O	2.18	0.44
2:E:1650:UNK:O	2:E:1652:UNK:N	2.51	0.44
2:E:1705:SER:OG	2:E:1708:ASP:CB	2.66	0.44
2:E:1716:ASN:O	2:E:1765:ARG:HB2	2.17	0.44
2:E:1730:ARG:C	2:E:1732:ASN:H	2.20	0.44
1:G:591:UNK:O	1:G:592:UNK:C	2.65	0.44
1:G:745:VAL:O	1:G:748:LEU:N	2.51	0.44
1:G:929:GLY:C	1:G:931:GLN:N	2.68	0.44
1:G:1114:TYR:CB	1:G:1115:ASN:ND2	2.70	0.44
1:G:1189:ILE:CG2	1:G:1377:MET:CB	2.73	0.44
1:G:1295:SER:OG	1:G:1706:TYR:OH	2.36	0.44
1:G:1315:GLY:O	1:G:1319:ILE:HG12	2.18	0.44
1:G:1385:GLN:NE2	1:G:1593:MET:CG	2.68	0.44
1:G:1504:ALA:O	1:G:1505:GLN:C	2.55	0.44
1:G:1544:THR:C	1:G:1546:THR:H	2.20	0.44
2:H:157:VAL:HG12	2:H:158:ALA:N	2.32	0.44
2:H:161:GLY:CA	2:H:512:LEU:HD12	2.47	0.44
2:H:233:SER:HA	2:H:424:ALA:CB	2.48	0.44
2:H:877:UNK:O	2:H:878:UNK:C	2.64	0.44
2:H:1502:UNK:O	2:H:1503:UNK:C	2.66	0.44
2:H:1762:TYR:C	2:H:1763:THR:HG1	2.20	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1897:GLN:C	2:H:1899:VAL:N	2.69	0.44
1:A:141:UNK:C	1:A:143:UNK:N	2.79	0.44
1:A:673:PHE:HZ	1:A:906:LEU:O	2.01	0.44
1:A:749:ILE:HD11	1:A:802:MET:CE	2.48	0.44
1:A:761:LEU:HD11	1:A:763:TRP:CD2	2.53	0.44
1:A:1133:PRO:CD	1:A:1173:LEU:HD13	2.47	0.44
1:A:1431:GLU:O	1:A:1432:HIS:O	2.36	0.44
1:A:1707:THR:HG23	1:A:1710:LEU:CD1	2.48	0.44
2:B:157:VAL:HG21	2:B:498:ALA:HB2	1.99	0.44
2:B:158:ALA:C	2:B:159:ILE:HG13	2.37	0.44
2:B:241:ILE:CG2	2:B:275:GLN:NE2	2.67	0.44
2:B:346:GLN:O	2:B:347:GLU:HB3	2.18	0.44
2:B:962:UNK:C	2:B:964:UNK:N	2.80	0.44
2:B:1148:UNK:C	2:B:1149:UNK:O	2.65	0.44
2:B:1295:UNK:O	2:B:1297:UNK:N	2.51	0.44
2:B:1787:ALA:O	2:B:1788:ALA:C	2.56	0.44
2:B:1835:GLY:O	2:B:1836:MET:C	2.56	0.44
1:D:704:VAL:O	1:D:704:VAL:HG12	2.18	0.44
1:D:796:LEU:HA	1:D:799:ILE:HD12	1.99	0.44
1:D:1222:ALA:O	1:D:1225:ALA:N	2.43	0.44
1:D:1251:MET:CE	1:D:1585:LYS:HE2	2.47	0.44
1:D:1329:VAL:HG11	1:D:1385:GLN:HB2	2.00	0.44
1:D:1453:VAL:O	1:D:1457:ALA:CB	2.66	0.44
1:D:1491:ARG:HG2	1:D:1491:ARG:HH11	1.82	0.44
1:D:1519:ILE:HD13	1:D:1521:PRO:HD2	1.97	0.44
1:D:1583:HIS:NE2	1:D:1588:ALA:HA	2.33	0.44
1:D:1688:PHE:C	1:D:1690:ASN:N	2.71	0.44
2:E:263:LEU:O	2:E:265:SER:N	2.50	0.44
2:E:633:UNK:O	2:E:635:UNK:N	2.50	0.44
2:E:691:UNK:O	2:E:692:UNK:CB	2.65	0.44
2:E:1137:UNK:C	2:E:1139:UNK:N	2.80	0.44
2:E:1854:MET:HA	2:E:1895:ASN:HD22	1.82	0.44
2:E:1927:LEU:CA	2:E:1930:SER:HB3	2.46	0.44
1:G:491:UNK:O	1:G:493:UNK:N	2.51	0.44
1:G:707:THR:HG22	1:G:709:ARG:H	1.83	0.44
1:G:888:ILE:C	1:G:890:LYS:H	2.20	0.44
1:G:890:LYS:C	1:G:892:GLY:N	2.70	0.44
1:G:1009:LEU:HD22	1:G:1446:LYS:HG3	1.98	0.44
1:G:1074:GLY:O	1:G:1075:TRP:CB	2.66	0.44
1:G:1197:THR:CB	1:G:1200:ILE:HG22	2.48	0.44
1:G:1251:MET:CE	1:G:1585:LYS:HE2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1471:LYS:O	1:G:1474:ALA:N	2.50	0.44
1:G:1475:GLU:OE1	1:G:1478:PRO:HG2	2.17	0.44
1:G:1491:ARG:HG2	1:G:1491:ARG:HH11	1.83	0.44
1:G:1493:ILE:HG13	1:G:1494:HIS:N	2.33	0.44
1:G:1502:ARG:O	1:G:1504:ALA:N	2.51	0.44
1:G:1531:LEU:O	1:G:1532:THR:O	2.36	0.44
1:G:1625:LEU:O	1:G:1626:TYR:HB3	2.17	0.44
2:H:1:MET:N	2:H:11:LEU:O	2.45	0.44
2:H:101:ILE:HD13	2:H:101:ILE:HA	1.87	0.44
2:H:367:GLU:HB2	2:H:430:HIS:ND1	2.32	0.44
2:H:439:ILE:O	2:H:443:LEU:HG	2.18	0.44
2:H:1733:TYR:O	2:H:1734:SER:HB2	2.17	0.44
2:H:1734:SER:O	2:H:1735:ALA:C	2.55	0.44
2:H:1737:ILE:HD13	2:H:1738:PHE:N	2.32	0.44
2:H:1742:VAL:HG23	2:H:1751:ILE:HD11	1.99	0.44
2:H:1785:GLU:OE1	3:I:20:UNK:CB	2.66	0.44
2:H:1856:ALA:C	2:H:1857:ILE:CG1	2.86	0.44
2:H:1863:ALA:HB1	2:H:1866:PHE:HB2	2.00	0.44
2:H:1874:VAL:HG22	2:H:1928:GLN:OE1	2.18	0.44
2:H:1893:VAL:C	2:H:1894:GLU:O	2.56	0.44
3:I:29:UNK:O	3:I:32:UNK:N	2.51	0.44
1:A:620:UNK:O	1:A:621:UNK:C	2.65	0.44
1:A:1248:GLY:O	1:A:1300:THR:HA	2.18	0.44
1:A:1412:ASP:N	1:A:1412:ASP:OD1	2.51	0.44
1:A:1640:SER:N	1:A:1654:ILE:HG13	2.33	0.44
2:B:1733:TYR:O	2:B:1734:SER:HB2	2.18	0.44
2:B:1753:LYS:O	2:B:1754:GLU:CB	2.63	0.44
2:B:1760:THR:O	2:B:1761:SER:OG	2.24	0.44
2:B:1856:ALA:C	2:B:1857:ILE:CG1	2.87	0.44
2:B:1927:LEU:CA	2:B:1930:SER:HB3	2.47	0.44
1:D:173:UNK:O	1:D:174:UNK:C	2.66	0.44
1:D:682:GLY:O	1:D:683:ALA:O	2.36	0.44
1:D:1160:THR:HG23	1:D:1160:THR:O	2.18	0.44
1:D:1184:LEU:HD12	1:D:1185:VAL:H	1.83	0.44
1:D:1258:ARG:HD3	1:D:1338:GLU:OE2	2.18	0.44
1:D:1301:PRO:HB2	1:D:1310:GLU:HG2	2.00	0.44
1:D:1641:ILE:H	1:D:1641:ILE:CD1	2.00	0.44
1:D:1701:LYS:HE3	1:D:1701:LYS:H	1.83	0.44
1:D:1704:ALA:CB	1:D:1705:PRO:HD2	2.31	0.44
2:E:252:THR:H	2:E:252:THR:HG1	1.56	0.44
2:E:301:THR:O	2:E:304:PHE:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:342:SER:OG	2:E:343:ASN:N	2.50	0.44
2:E:444:VAL:C	2:E:446:ASN:N	2.69	0.44
2:E:772:UNK:CB	2:E:777:UNK:O	2.65	0.44
2:E:1549:UNK:O	2:E:1550:UNK:O	2.36	0.44
2:E:1742:VAL:HG21	2:E:1837:THR:HA	1.99	0.44
2:E:1828:VAL:O	2:E:1829:GLU:C	2.56	0.44
2:E:1884:TRP:CZ3	2:E:2051:UNK:HA	2.53	0.44
1:G:448:UNK:C	1:G:450:UNK:N	2.80	0.44
1:G:455:UNK:O	1:G:458:UNK:N	2.51	0.44
1:G:563:UNK:O	1:G:566:UNK:N	2.50	0.44
1:G:867:ALA:HB1	1:G:905:LEU:CD1	2.48	0.44
1:G:903:PHE:C	1:G:906:LEU:HB3	2.37	0.44
1:G:996:LYS:HZ1	1:G:1400:ILE:CG1	2.31	0.44
1:G:1008:GLU:O	1:G:1010:GLU:N	2.51	0.44
1:G:1015:LEU:CD2	1:G:1016:GLU:H	2.31	0.44
1:G:1110:LEU:HG	1:G:1189:ILE:H	1.83	0.44
1:G:1234:MET:O	1:G:1239:HIS:CD2	2.59	0.44
1:G:1396:MET:CA	1:G:1676:LYS:HD3	2.20	0.44
1:G:1431:GLU:O	1:G:1432:HIS:O	2.35	0.44
1:G:1599:ILE:C	1:G:1600:LEU:O	2.54	0.44
1:G:1684:ALA:C	1:G:1686:LYS:N	2.69	0.44
1:G:1739:GLN:O	1:G:1740:SER:C	2.57	0.44
2:H:224:ASN:O	2:H:226:PRO:HD3	2.18	0.44
2:H:677:UNK:O	2:H:678:UNK:C	2.66	0.44
2:H:923:UNK:C	2:H:927:UNK:CB	2.96	0.44
2:H:1067:UNK:O	2:H:1069:UNK:N	2.50	0.44
2:H:1487:UNK:HA	2:H:1509:UNK:O	2.18	0.44
2:H:1854:MET:HA	2:H:1895:ASN:HD22	1.81	0.44
3:I:56:UNK:C	3:I:58:UNK:N	2.80	0.44
1:A:807:LYS:C	1:A:807:LYS:CD	2.86	0.44
1:A:840:SER:OG	1:A:841:GLU:OE1	2.35	0.44
1:A:916:LEU:O	1:A:919:LYS:HB2	2.18	0.44
1:A:1091:ALA:O	1:A:1093:TYR:O	2.36	0.44
1:A:1188:GLN:N	1:A:1188:GLN:CD	2.72	0.44
1:A:1351:ASN:O	1:A:1352:THR:C	2.56	0.44
1:A:1452:LEU:HD23	1:A:1456:GLU:HB3	2.00	0.44
1:A:1470:LEU:HD23	1:A:1470:LEU:C	2.38	0.44
1:A:1497:ALA:O	1:A:1499:SER:N	2.51	0.44
1:A:1646:PHE:O	1:A:1648:GLN:N	2.51	0.44
2:B:401:GLY:O	2:B:402:LEU:C	2.56	0.44
2:B:529:VAL:HG12	2:B:530:ALA:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1169:UNK:C	2:B:1171:UNK:H2	2.30	0.44
2:B:1737:ILE:HG23	2:B:1755:ILE:CG2	2.48	0.44
2:B:1995:UNK:O	2:B:1996:UNK:O	2.35	0.44
1:D:261:UNK:C	1:D:263:UNK:N	2.79	0.44
1:D:407:UNK:C	1:D:409:UNK:N	2.77	0.44
1:D:901:MET:O	1:D:902:ALA:C	2.54	0.44
1:D:1091:ALA:O	1:D:1093:TYR:O	2.35	0.44
1:D:1114:TYR:CB	1:D:1115:ASN:ND2	2.70	0.44
1:D:1208:VAL:CG2	1:D:1212:THR:HB	2.47	0.44
1:D:1271:GLN:O	1:D:1272:ASN:C	2.56	0.44
1:D:1288:ASN:C	1:D:1290:LEU:H	2.20	0.44
1:D:1289:MET:H	1:D:1289:MET:HG2	1.49	0.44
1:D:1460:LYS:HD3	1:D:1778:UNK:CB	2.48	0.44
1:D:1476:GLU:O	1:D:1477:ILE:CG1	2.57	0.44
1:D:1546:THR:C	1:D:1548:ALA:H	2.22	0.44
1:D:1555:ALA:HA	1:D:1558:ASN:CB	2.48	0.44
1:D:1615:ASP:CG	1:D:1617:ILE:HG12	2.38	0.44
1:D:1685:TYR:CD2	2:E:966:UNK:CB	3.01	0.44
2:E:217:GLU:C	2:E:219:LEU:N	2.71	0.44
2:E:646:UNK:O	2:E:647:UNK:C	2.65	0.44
2:E:1720:HIS:CB	2:E:1762:TYR:O	2.66	0.44
2:E:1742:VAL:HG12	2:E:1743:ASP:N	2.33	0.44
2:E:1933:LEU:HA	2:E:1936:VAL:CG1	2.47	0.44
1:G:615:UNK:C	1:G:617:UNK:N	2.81	0.44
1:G:752:ILE:HG23	1:G:761:LEU:HD21	1.99	0.44
1:G:784:ILE:HD11	1:G:838:MET:HG3	2.00	0.44
1:G:1367:ARG:NH1	1:G:1372:THR:HG21	2.32	0.44
1:G:1398:VAL:CG1	1:G:1399:PRO:HA	2.18	0.44
1:G:1433:HIS:ND1	1:G:1434:SER:O	2.51	0.44
1:G:1565:GLY:O	1:G:1566:ARG:O	2.36	0.44
2:H:212:GLY:O	2:H:218:TRP:HZ2	2.01	0.44
2:H:489:LYS:O	2:H:490:TRP:C	2.55	0.44
2:H:627:UNK:C	2:H:629:UNK:N	2.81	0.44
2:H:633:UNK:O	2:H:635:UNK:N	2.51	0.44
2:H:691:UNK:O	2:H:692:UNK:CB	2.65	0.44
2:H:1075:UNK:O	2:H:1076:UNK:CB	2.66	0.44
2:H:1265:UNK:O	2:H:1269:UNK:CB	2.66	0.44
2:H:1784:MET:HE3	3:I:21:UNK:CA	2.35	0.44
2:H:1929:LYS:CA	2:H:1929:LYS:HE2	2.47	0.44
2:H:1995:UNK:O	2:H:1996:UNK:O	2.36	0.44
3:I:53:UNK:O	3:I:54:UNK:C	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:565:UNK:O	1:A:569:UNK:N	2.51	0.43
1:A:711:SER:C	1:A:713:GLN:N	2.68	0.43
1:A:724:LYS:HD3	1:A:725:TYR:HE1	1.83	0.43
1:A:743:GLN:O	1:A:745:VAL:N	2.50	0.43
1:A:909:LEU:HG	1:A:909:LEU:O	2.18	0.43
1:A:1237:TYR:OH	1:A:1396:MET:CB	2.66	0.43
1:A:1240:VAL:HG13	1:A:1242:GLU:H	1.82	0.43
1:A:1241:SER:HB2	1:A:1295:SER:HB2	1.99	0.43
1:A:1288:ASN:C	1:A:1290:LEU:H	2.21	0.43
1:A:1329:VAL:HG11	1:A:1385:GLN:N	2.32	0.43
1:A:1449:LYS:C	1:A:1451:GLN:N	2.70	0.43
1:A:1546:THR:C	1:A:1548:ALA:H	2.21	0.43
1:A:1547:LYS:HE3	1:A:1615:ASP:CB	2.47	0.43
1:A:1550:ASP:O	1:A:1551:LYS:C	2.57	0.43
1:A:1684:ALA:C	1:A:1686:LYS:N	2.70	0.43
2:B:325:GLU:O	2:B:328:LEU:N	2.50	0.43
2:B:375:LYS:HG3	2:B:376:ASN:N	2.28	0.43
2:B:517:HIS:CD2	2:B:517:HIS:C	2.91	0.43
2:B:568:UNK:C	2:B:570:UNK:N	2.80	0.43
2:B:1484:UNK:O	2:B:1485:UNK:CB	2.66	0.43
2:B:1715:VAL:HA	2:B:1718:THR:CG2	2.48	0.43
2:B:2006:UNK:HA	2:B:2009:UNK:O	2.18	0.43
2:B:2029:UNK:C	2:B:2031:UNK:N	2.78	0.43
3:C:37:UNK:C	3:C:39:UNK:N	2.81	0.43
1:D:523:UNK:O	1:D:525:UNK:N	2.51	0.43
1:D:797:THR:CA	1:D:800:LEU:HD23	2.47	0.43
1:D:976:ALA:O	2:E:939:UNK:HA	2.18	0.43
1:D:1074:GLY:O	1:D:1075:TRP:CB	2.66	0.43
1:D:1133:PRO:CD	1:D:1173:LEU:HD13	2.46	0.43
1:D:1389:GLN:O	1:D:1390:ALA:CB	2.65	0.43
1:D:1493:ILE:HG13	1:D:1494:HIS:N	2.32	0.43
1:D:1613:ASN:CG	1:D:1614:VAL:H	2.22	0.43
1:D:1625:LEU:HD13	1:D:1626:TYR:N	2.33	0.43
1:D:1728:SER:O	1:D:1729:GLY:C	2.57	0.43
2:E:9:LEU:CD1	2:E:58:ALA:HB2	2.47	0.43
2:E:73:GLU:O	2:E:75:SER:N	2.47	0.43
2:E:416:PHE:HB3	2:E:417:SER:H	1.35	0.43
2:E:439:ILE:O	2:E:443:LEU:HG	2.18	0.43
2:E:467:ASP:C	2:E:469:ARG:N	2.69	0.43
2:E:738:UNK:O	2:E:739:UNK:C	2.66	0.43
2:E:817:UNK:O	2:E:818:UNK:C	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1681:TYR:C	2:E:1681:TYR:HD2	2.20	0.43
2:E:1718:THR:CB	2:E:1770:LEU:HD13	2.48	0.43
2:E:1742:VAL:HG23	2:E:1751:ILE:HD11	1.99	0.43
2:E:1787:ALA:O	2:E:1788:ALA:C	2.56	0.43
2:E:1875:VAL:HG22	2:E:1880:LYS:O	2.18	0.43
2:E:1972:UNK:C	2:E:1974:UNK:N	2.78	0.43
2:E:2000:UNK:O	2:E:2002:UNK:N	2.51	0.43
1:G:279:UNK:C	1:G:281:UNK:N	2.81	0.43
1:G:856:GLU:HB2	1:G:858:TRP:NE1	2.31	0.43
1:G:913:VAL:O	1:G:916:LEU:HB3	2.17	0.43
1:G:1108:PRO:O	1:G:1109:GLU:CB	2.66	0.43
1:G:1141:ALA:HA	1:G:1144:PHE:CD1	2.51	0.43
1:G:1161:GLY:O	1:G:1162:GLU:O	2.36	0.43
1:G:1353:LEU:O	1:G:1355:GLU:N	2.51	0.43
1:G:1459:ILE:CD1	1:G:1460:LYS:N	2.81	0.43
1:G:1609:ARG:NE	1:G:1610:ASN:N	2.61	0.43
2:H:263:LEU:O	2:H:265:SER:N	2.51	0.43
2:H:301:THR:O	2:H:304:PHE:HB3	2.17	0.43
2:H:401:GLY:O	2:H:402:LEU:C	2.56	0.43
2:H:915:UNK:C	2:H:917:UNK:N	2.80	0.43
2:H:1730:ARG:C	2:H:1732:ASN:H	2.20	0.43
2:H:1814:ALA:HA	2:H:1817:SER:OG	2.17	0.43
2:H:1884:TRP:CZ3	2:H:2051:UNK:HA	2.53	0.43
1:A:177:UNK:O	1:A:178:UNK:C	2.66	0.43
1:A:419:UNK:C	1:A:421:UNK:H	2.31	0.43
1:A:449:UNK:O	1:A:451:UNK:N	2.51	0.43
1:A:491:UNK:O	1:A:493:UNK:N	2.51	0.43
1:A:717:TYR:CD2	1:A:718:TYR:CD1	3.04	0.43
1:A:792:HIS:CE1	1:A:796:LEU:CD2	2.96	0.43
1:A:858:TRP:C	1:A:861:GLN:HE21	2.21	0.43
1:A:996:LYS:NZ	1:A:1400:ILE:HG13	2.33	0.43
1:A:1036:ARG:O	1:A:1040:GLU:N	2.32	0.43
1:A:1326:ILE:HG13	1:A:1388:MET:HG2	2.00	0.43
1:A:1577:GLN:CD	1:A:1592:MET:HA	2.38	0.43
1:A:1599:ILE:C	1:A:1600:LEU:O	2.54	0.43
1:A:1609:ARG:CD	1:A:1611:ALA:HB3	2.48	0.43
1:A:1745:UNK:C	1:A:1747:UNK:N	2.81	0.43
2:B:174:ARG:HA	2:B:219:LEU:HD22	1.99	0.43
2:B:427:PHE:O	2:B:428:HIS:C	2.57	0.43
2:B:627:UNK:C	2:B:629:UNK:N	2.80	0.43
2:B:673:UNK:O	2:B:674:UNK:C	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:877:UNK:O	2:B:878:UNK:C	2.65	0.43
2:B:1147:UNK:O	2:B:1148:UNK:CB	2.66	0.43
2:B:1861:ARG:O	2:B:1862:VAL:HB	2.18	0.43
2:B:1899:VAL:O	2:B:1903:ASP:CB	2.60	0.43
1:D:536:UNK:O	1:D:537:UNK:C	2.65	0.43
1:D:556:UNK:C	1:D:558:UNK:N	2.79	0.43
1:D:677:TYR:C	1:D:678:VAL:HG23	2.38	0.43
1:D:792:HIS:CE1	1:D:796:LEU:CD2	2.97	0.43
1:D:813:ARG:HG3	1:D:813:ARG:HH11	1.83	0.43
1:D:826:MET:HB2	1:D:868:ILE:HG12	2.00	0.43
1:D:1040:GLU:O	1:D:1606:PRO:HG3	2.18	0.43
1:D:1108:PRO:O	1:D:1109:GLU:CB	2.66	0.43
1:D:1264:ARG:NH2	1:D:1270:VAL:HB	2.32	0.43
1:D:1400:ILE:HD11	1:D:1662:TYR:OH	2.17	0.43
1:D:1526:LEU:O	1:D:1530:GLY:O	2.36	0.43
1:D:1562:LYS:O	1:D:1564:LEU:N	2.51	0.43
1:D:1599:ILE:C	1:D:1600:LEU:O	2.55	0.43
2:E:1:MET:HE3	2:E:19:VAL:HG13	1.99	0.43
2:E:149:VAL:HG22	2:E:155:GLN:HA	1.99	0.43
2:E:165:ASN:HB2	2:E:510:SER:HB2	2.00	0.43
2:E:259:THR:HG22	2:E:288:SER:HA	1.98	0.43
2:E:905:UNK:C	2:E:907:UNK:N	2.81	0.43
2:E:1042:UNK:O	2:E:1044:UNK:N	2.52	0.43
2:E:1484:UNK:O	2:E:1485:UNK:CB	2.66	0.43
2:E:1555:UNK:O	2:E:1556:UNK:C	2.65	0.43
2:E:1855:ILE:CG2	2:E:1951:UNK:HA	2.42	0.43
2:E:2022:UNK:O	2:E:2024:UNK:N	2.49	0.43
1:G:261:UNK:C	1:G:263:UNK:N	2.79	0.43
1:G:718:TYR:CD1	1:G:718:TYR:N	2.85	0.43
1:G:797:THR:O	1:G:800:LEU:CB	2.65	0.43
1:G:901:MET:O	1:G:902:ALA:C	2.56	0.43
1:G:997:PRO:O	1:G:1002:LYS:HE3	2.18	0.43
1:G:998:TYR:O	1:G:1001:VAL:HB	2.17	0.43
1:G:1017:ARG:CZ	1:G:1320:LEU:HD13	2.47	0.43
1:G:1368:PRO:O	1:G:1369:ALA:O	2.35	0.43
1:G:1463:VAL:O	1:G:1464:GLU:C	2.57	0.43
1:G:1470:LEU:HD23	1:G:1470:LEU:C	2.38	0.43
1:G:1620:GLN:O	1:G:1621:PHE:CD1	2.71	0.43
1:G:1657:HIS:CE1	1:G:1658:PRO:HD2	2.53	0.43
1:G:1701:LYS:HE3	1:G:1701:LYS:H	1.82	0.43
1:G:1706:TYR:C	1:G:1707:THR:HG22	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1173:UNK:CB	2:H:1181:UNK:N	2.73	0.43
2:H:1420:UNK:O	2:H:1421:UNK:O	2.36	0.43
2:H:1689:ASP:O	2:H:1690:VAL:C	2.54	0.43
1:A:574:UNK:O	1:A:575:UNK:C	2.65	0.43
1:A:586:UNK:O	1:A:588:UNK:N	2.51	0.43
1:A:745:VAL:O	1:A:746:GLU:C	2.57	0.43
1:A:884:ILE:O	1:A:885:ALA:HB3	2.18	0.43
1:A:972:SER:O	1:A:973:ALA:CB	2.66	0.43
1:A:1251:MET:N	1:A:1333:ASP:OD2	2.45	0.43
1:A:1425:ILE:O	1:A:1426:LEU:CD2	2.65	0.43
1:A:1681:GLU:O	1:A:1682:LYS:CB	2.65	0.43
2:B:244:ILE:HG13	2:B:244:ILE:H	1.61	0.43
2:B:259:THR:O	2:B:261:GLY:N	2.51	0.43
2:B:305:PHE:CE2	2:B:442:ASP:HB3	2.53	0.43
2:B:691:UNK:O	2:B:692:UNK:CB	2.66	0.43
2:B:1137:UNK:C	2:B:1139:UNK:N	2.81	0.43
2:B:1715:VAL:HA	2:B:1718:THR:HG22	2.00	0.43
2:B:1722:GLY:O	2:B:1723:GLY:C	2.57	0.43
1:D:279:UNK:C	1:D:281:UNK:N	2.80	0.43
1:D:557:UNK:O	1:D:559:UNK:N	2.51	0.43
1:D:561:UNK:O	1:D:562:UNK:C	2.66	0.43
1:D:676:LYS:O	1:D:677:TYR:O	2.37	0.43
1:D:852:ARG:C	1:D:854:HIS:N	2.72	0.43
1:D:1141:ALA:HA	1:D:1144:PHE:CD1	2.52	0.43
1:D:1209:ASP:O	1:D:1210:PRO:O	2.36	0.43
1:D:1215:VAL:HG23	1:D:1216:LEU:N	2.32	0.43
1:D:1303:GLY:O	1:D:1304:ALA:C	2.56	0.43
1:D:1376:PHE:O	1:D:1377:MET:CG	2.65	0.43
1:D:1377:MET:O	1:D:1377:MET:CG	2.54	0.43
1:D:1452:LEU:HD23	1:D:1456:GLU:HB3	2.00	0.43
1:D:1597:LEU:HD23	1:D:1597:LEU:N	2.32	0.43
1:D:1780:UNK:C	1:D:1782:UNK:N	2.79	0.43
2:E:188:ILE:O	2:E:189:LYS:C	2.55	0.43
2:E:230:TYR:C	2:E:232:LEU:H	2.20	0.43
2:E:273:HIS:CE1	2:E:488:VAL:HG11	2.51	0.43
2:E:597:UNK:C	2:E:599:UNK:N	2.82	0.43
2:E:880:UNK:CB	2:E:989:UNK:O	2.66	0.43
2:E:932:UNK:C	2:E:934:UNK:N	2.82	0.43
2:E:1678:MET:O	2:E:1681:TYR:N	2.51	0.43
2:E:1705:SER:O	2:E:1708:ASP:HB3	2.18	0.43
2:E:1715:VAL:CG2	2:E:1716:ASN:H	2.05	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1903:ASP:OD1	2:E:1904:LEU:N	2.51	0.43
2:E:1912:ASN:O	2:E:1913:VAL:CG2	2.67	0.43
2:E:1932:SER:O	2:E:1936:VAL:HG12	2.18	0.43
2:E:2022:UNK:C	2:E:2024:UNK:N	2.59	0.43
1:G:455:UNK:O	1:G:456:UNK:C	2.67	0.43
1:G:753:TYR:CG	1:G:809:GLN:HG2	2.53	0.43
1:G:990:LEU:O	1:G:991:ASP:O	2.36	0.43
1:G:1127:VAL:O	1:G:1177:LYS:HA	2.17	0.43
1:G:1237:TYR:OH	1:G:1396:MET:CB	2.65	0.43
1:G:1241:SER:HB2	1:G:1295:SER:HB2	2.01	0.43
1:G:1351:ASN:ND2	1:G:1354:GLU:HG3	2.32	0.43
1:G:1406:MET:HB3	1:G:1654:ILE:HG22	1.98	0.43
1:G:1579:PHE:O	1:G:1580:LEU:CB	2.50	0.43
1:G:1589:GLY:O	1:G:1592:MET:N	2.51	0.43
1:G:1625:LEU:HD13	1:G:1626:TYR:N	2.32	0.43
1:G:1714:VAL:HG13	1:G:1731:LEU:HD22	2.01	0.43
1:G:1779:UNK:C	1:G:1781:UNK:N	2.76	0.43
2:H:325:GLU:O	2:H:328:LEU:N	2.52	0.43
2:H:726:UNK:O	2:H:727:UNK:CB	2.65	0.43
2:H:1235:UNK:O	2:H:1236:UNK:CB	2.66	0.43
2:H:1715:VAL:CG1	2:H:1716:ASN:N	2.72	0.43
2:H:1724:GLU:O	2:H:1729:ILE:CB	2.65	0.43
2:H:1867:SER:O	2:H:1871:LEU:HB3	2.18	0.43
1:A:536:UNK:O	1:A:537:UNK:C	2.66	0.43
1:A:911:PRO:O	1:A:913:VAL:N	2.51	0.43
1:A:1015:LEU:CD2	1:A:1016:GLU:H	2.30	0.43
1:A:1232:TYR:C	1:A:1234:MET:N	2.68	0.43
1:A:1246:CYS:HB3	1:A:1328:ILE:CG2	2.27	0.43
1:A:1427:THR:O	1:A:1430:ARG:N	2.52	0.43
1:A:1447:TYR:CE2	1:A:1450:ARG:CG	3.01	0.43
1:A:1452:LEU:O	1:A:1456:GLU:CB	2.56	0.43
1:A:1531:LEU:O	1:A:1532:THR:O	2.36	0.43
1:A:1585:LYS:HB3	1:A:1585:LYS:HE3	1.75	0.43
1:A:1631:LEU:HD23	1:A:1631:LEU:HA	1.73	0.43
1:A:1661:LEU:O	1:A:1661:LEU:CD2	2.59	0.43
1:A:1713:ASP:O	1:A:1714:VAL:C	2.56	0.43
2:B:1:MET:HE3	2:B:19:VAL:HG13	2.00	0.43
2:B:184:VAL:O	2:B:185:GLY:C	2.55	0.43
2:B:404:GLN:C	2:B:406:ARG:N	2.71	0.43
2:B:616:UNK:C	2:B:618:UNK:H	2.22	0.43
2:B:932:UNK:C	2:B:934:UNK:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1587:UNK:O	2:B:1590:UNK:N	2.52	0.43
2:B:1782:THR:HG1	2:B:1809:LEU:HD21	1.83	0.43
2:B:1863:ALA:O	2:B:1864:ALA:HB3	2.18	0.43
1:D:370:UNK:O	1:D:371:UNK:C	2.65	0.43
1:D:404:UNK:O	1:D:405:UNK:C	2.65	0.43
1:D:1020:VAL:CG1	1:D:1021:VAL:N	2.81	0.43
1:D:1256:ALA:HB1	1:D:1274:ILE:HD11	1.99	0.43
1:D:1433:HIS:ND1	1:D:1434:SER:O	2.50	0.43
1:D:1470:LEU:HD23	1:D:1470:LEU:C	2.37	0.43
1:D:1793:UNK:C	1:D:1795:UNK:N	2.80	0.43
2:E:28:PHE:HD2	2:E:28:PHE:HA	1.67	0.43
2:E:157:VAL:HG12	2:E:158:ALA:N	2.34	0.43
2:E:241:ILE:HA	2:E:244:ILE:HD12	1.99	0.43
2:E:298:LYS:O	2:E:299:ALA:C	2.56	0.43
2:E:653:UNK:O	2:E:657:UNK:N	2.52	0.43
2:E:915:UNK:C	2:E:917:UNK:N	2.80	0.43
2:E:1030:UNK:O	2:E:1031:UNK:CB	2.66	0.43
2:E:1632:UNK:O	2:E:1633:UNK:CB	2.66	0.43
2:E:1755:ILE:HG12	2:E:1755:ILE:H	1.55	0.43
2:E:1867:SER:O	2:E:1871:LEU:HB3	2.18	0.43
2:E:1938:GLY:O	2:E:1939:HIS:HB2	2.18	0.43
3:F:56:UNK:C	3:F:58:UNK:N	2.79	0.43
1:G:438:UNK:CB	1:G:1358:HIS:HD2	2.31	0.43
1:G:543:UNK:C	1:G:545:UNK:N	2.81	0.43
1:G:692:VAL:CG2	1:G:902:ALA:HB1	2.48	0.43
1:G:742:LYS:HG3	1:G:743:GLN:H	1.84	0.43
1:G:901:MET:HE3	1:G:901:MET:O	2.18	0.43
1:G:1063:HIS:CD2	1:G:1065:GLY:CA	2.98	0.43
1:G:1075:TRP:O	1:G:1076:VAL:CG1	2.52	0.43
1:G:1192:GLY:C	1:G:1193:TRP:CG	2.92	0.43
1:G:1222:ALA:O	1:G:1225:ALA:CB	2.63	0.43
1:G:1232:TYR:O	1:G:1235:TYR:HD2	2.01	0.43
1:G:1237:TYR:OH	1:G:1396:MET:HB2	2.18	0.43
1:G:1290:LEU:CA	1:G:1701:LYS:HD2	2.48	0.43
1:G:1333:ASP:HB2	1:G:1586:GLY:HA3	2.00	0.43
1:G:1579:PHE:HE2	1:G:1609:ARG:HB3	1.82	0.43
1:G:1728:SER:O	1:G:1729:GLY:C	2.56	0.43
2:H:57:PRO:C	2:H:59:GLU:H	2.22	0.43
2:H:60:LEU:O	2:H:64:PHE:HB3	2.18	0.43
2:H:149:VAL:O	2:H:266:TYR:CD2	2.72	0.43
2:H:512:LEU:O	2:H:513:GLY:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:601:UNK:C	2:H:603:UNK:N	2.78	0.43
2:H:616:UNK:C	2:H:618:UNK:H	2.22	0.43
2:H:880:UNK:CB	2:H:989:UNK:O	2.66	0.43
2:H:1357:UNK:CB	2:H:1406:UNK:N	2.81	0.43
2:H:1672:GLN:HB3	2:H:1781:LEU:HG	1.99	0.43
2:H:1698:PHE:CE1	2:H:1828:VAL:HG21	2.50	0.43
2:H:1826:SER:O	2:H:1827:LEU:C	2.55	0.43
2:H:1918:LYS:HB3	2:H:1919:LEU:H	1.46	0.43
2:H:1969:UNK:O	2:H:1973:UNK:CB	2.67	0.43
1:A:491:UNK:C	1:A:493:UNK:N	2.80	0.43
1:A:680:ILE:HG23	1:A:769:ILE:HG21	1.98	0.43
1:A:853:TRP:CD1	1:A:864:VAL:HG23	2.54	0.43
1:A:994:GLU:O	1:A:995:LEU:O	2.37	0.43
1:A:1067:LEU:HA	1:A:1074:GLY:O	2.18	0.43
1:A:1391:ASP:O	1:A:1393:ALA:N	2.52	0.43
1:A:1475:GLU:OE1	1:A:1478:PRO:HG2	2.19	0.43
1:A:1487:LEU:C	1:A:1490:THR:HG22	2.36	0.43
1:A:1583:HIS:NE2	1:A:1588:ALA:HA	2.33	0.43
1:A:1701:LYS:CD	1:A:1701:LYS:N	2.81	0.43
1:A:1706:TYR:HB2	1:A:1707:THR:H	1.64	0.43
2:B:165:ASN:HB2	2:B:510:SER:HB2	1.99	0.43
2:B:474:SER:O	2:B:475:ILE:CB	2.66	0.43
2:B:726:UNK:CB	2:B:786:UNK:O	2.66	0.43
2:B:1551:UNK:O	2:B:1553:UNK:N	2.51	0.43
2:B:1684:SER:C	2:B:1686:ALA:N	2.71	0.43
2:B:1689:ASP:O	2:B:1690:VAL:C	2.57	0.43
2:B:1778:GLN:O	2:B:1779:PRO:C	2.56	0.43
2:B:1863:ALA:HB1	2:B:1866:PHE:HB2	2.01	0.43
2:B:1874:VAL:CG2	2:B:1928:GLN:HE22	2.28	0.43
2:B:1900:ALA:C	2:B:1902:GLY:N	2.72	0.43
2:B:1912:ASN:C	2:B:1913:VAL:HG22	2.39	0.43
1:D:761:LEU:HD11	1:D:763:TRP:CD2	2.54	0.43
1:D:856:GLU:HB2	1:D:858:TRP:NE1	2.32	0.43
1:D:903:PHE:C	1:D:906:LEU:HB3	2.39	0.43
1:D:930:LEU:O	1:D:932:PHE:N	2.51	0.43
1:D:1017:ARG:CZ	1:D:1320:LEU:HD13	2.49	0.43
1:D:1142:GLU:CA	1:D:1145:LYS:HB2	2.45	0.43
1:D:1275:LEU:O	1:D:1278:SER:HB3	2.17	0.43
1:D:1452:LEU:O	1:D:1456:GLU:CB	2.58	0.43
1:D:1618:LEU:O	1:D:1619:GLU:HB2	2.18	0.43
1:D:1684:ALA:C	1:D:1686:LYS:N	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:242:GLY:O	2:E:243:VAL:C	2.56	0.43
2:E:267:LEU:CD2	2:E:457:ILE:HD13	2.48	0.43
2:E:554:UNK:O	2:E:555:UNK:C	2.66	0.43
2:E:867:UNK:O	2:E:868:UNK:C	2.65	0.43
2:E:1737:ILE:HD13	2:E:1738:PHE:N	2.31	0.43
2:E:1806:GLY:HA2	2:E:1810:GLY:O	2.17	0.43
2:E:1863:ALA:HB1	2:E:1866:PHE:HB2	2.00	0.43
2:E:1897:GLN:O	2:E:1899:VAL:N	2.52	0.43
1:G:404:UNK:O	1:G:405:UNK:C	2.65	0.43
1:G:458:UNK:HA	1:G:1631:LEU:CD2	2.47	0.43
1:G:724:LYS:C	1:G:725:TYR:HD1	2.21	0.43
1:G:819:PRO:HA	1:G:861:GLN:HA	2.00	0.43
1:G:914:VAL:O	1:G:915:GLU:C	2.57	0.43
1:G:972:SER:O	1:G:973:ALA:CB	2.66	0.43
1:G:1023:GLY:N	1:G:1386:ILE:HG13	2.34	0.43
1:G:1028:GLY:CA	1:G:1591:TRP:HZ2	2.32	0.43
1:G:1087:LYS:HB3	1:G:1088:ASP:H	1.47	0.43
1:G:1118:LYS:O	1:G:1118:LYS:CG	2.67	0.43
1:G:1237:TYR:O	1:G:1238:VAL:CG2	2.67	0.43
1:G:1327:CYS:SG	1:G:1328:ILE:N	2.91	0.43
1:G:1389:GLN:O	1:G:1390:ALA:CB	2.65	0.43
1:G:1452:LEU:HD23	1:G:1456:GLU:HB3	2.01	0.43
1:G:1542:HIS:O	1:G:1544:THR:N	2.51	0.43
1:G:1614:VAL:HG12	1:G:1618:LEU:HD12	2.00	0.43
2:H:131:ILE:HG21	2:H:182:VAL:HG22	2.01	0.43
2:H:357:ASN:HB3	2:H:365:GLN:HE21	1.84	0.43
2:H:383:PRO:HG2	2:H:384:GLN:H	1.83	0.43
2:H:1266:UNK:O	2:H:1269:UNK:N	2.52	0.43
2:H:1549:UNK:O	2:H:1550:UNK:O	2.36	0.43
2:H:1678:MET:O	2:H:1681:TYR:N	2.52	0.43
2:H:1742:VAL:HG12	2:H:1743:ASP:N	2.34	0.43
2:H:1806:GLY:HA2	2:H:1810:GLY:O	2.17	0.43
1:A:378:UNK:C	1:A:380:UNK:N	2.75	0.43
1:A:836:ASP:OD1	1:A:839:TYR:HB3	2.17	0.43
1:A:1426:LEU:HD12	1:A:1427:THR:OG1	2.19	0.43
1:A:1613:ASN:CG	1:A:1614:VAL:H	2.22	0.43
1:A:1615:ASP:OD1	1:A:1617:ILE:HG12	2.18	0.43
1:A:1625:LEU:CD2	1:A:1626:TYR:HD1	2.32	0.43
1:A:1811:UNK:C	1:A:1813:UNK:N	2.80	0.43
2:B:22:VAL:N	2:B:23:PRO:HD2	2.34	0.43
2:B:63:LYS:HB2	2:B:125:ASN:ND2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:73:GLU:O	2:B:75:SER:N	2.48	0.43
2:B:88:LEU:HD21	2:B:130:ARG:HA	2.01	0.43
2:B:248:HIS:O	2:B:249:TYR:C	2.57	0.43
2:B:726:UNK:O	2:B:727:UNK:CB	2.66	0.43
2:B:799:UNK:O	2:B:801:UNK:N	2.52	0.43
2:B:1691:TRP:O	2:B:1694:ALA:N	2.52	0.43
2:B:1909:THR:HG23	2:B:1912:ASN:ND2	2.34	0.43
2:B:2022:UNK:O	2:B:2024:UNK:N	2.50	0.43
1:D:602:UNK:O	1:D:603:UNK:O	2.36	0.43
1:D:796:LEU:CG	1:D:797:THR:N	2.82	0.43
1:D:796:LEU:C	1:D:800:LEU:HD23	2.39	0.43
1:D:858:TRP:CZ3	1:D:862:LEU:HB2	2.53	0.43
1:D:893:VAL:O	1:D:893:VAL:HG12	2.18	0.43
1:D:942:LYS:O	1:D:943:LEU:C	2.56	0.43
1:D:990:LEU:HD23	1:D:1685:TYR:CE2	2.54	0.43
1:D:1008:GLU:O	1:D:1010:GLU:N	2.51	0.43
1:D:1063:HIS:CD2	1:D:1065:GLY:CA	2.99	0.43
1:D:1303:GLY:O	1:D:1304:ALA:O	2.37	0.43
1:D:1459:ILE:CD1	1:D:1460:LYS:N	2.82	0.43
1:D:1579:PHE:O	1:D:1580:LEU:CB	2.52	0.43
1:D:1707:THR:HG23	1:D:1710:LEU:CG	2.49	0.43
2:E:334:VAL:HA	2:E:335:PRO:HD2	1.88	0.43
2:E:737:UNK:O	2:E:738:UNK:C	2.66	0.43
2:E:911:UNK:O	2:E:912:UNK:CB	2.67	0.43
2:E:969:UNK:O	2:E:972:UNK:N	2.52	0.43
2:E:1013:UNK:C	2:E:1015:UNK:N	2.80	0.43
2:E:1148:UNK:C	2:E:1149:UNK:O	2.67	0.43
2:E:1343:UNK:O	2:E:1344:UNK:CB	2.66	0.43
2:E:1633:UNK:O	2:E:1634:UNK:CB	2.65	0.43
2:E:1731:GLU:CA	2:E:1735:ALA:HB3	2.49	0.43
2:E:1778:GLN:O	2:E:1779:PRO:C	2.54	0.43
2:E:1869:GLU:C	2:E:1871:LEU:H	2.22	0.43
2:E:2028:UNK:O	2:E:2029:UNK:O	2.37	0.43
1:G:404:UNK:O	1:G:407:UNK:N	2.52	0.43
1:G:784:ILE:O	1:G:785:ASP:O	2.37	0.43
1:G:807:LYS:C	1:G:807:LYS:CD	2.85	0.43
1:G:824:LEU:HD13	1:G:846:LEU:HD22	1.99	0.43
1:G:942:LYS:O	1:G:943:LEU:C	2.57	0.43
1:G:1160:THR:HG23	1:G:1160:THR:O	2.18	0.43
1:G:1264:ARG:NH2	1:G:1270:VAL:HB	2.34	0.43
1:G:1341:PHE:C	1:G:1343:PHE:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1412:ASP:N	1:G:1412:ASP:OD1	2.51	0.43
1:G:1447:TYR:CE2	1:G:1450:ARG:CG	3.00	0.43
1:G:1462:TRP:HE3	1:G:1463:VAL:N	2.16	0.43
1:G:1609:ARG:HE	1:G:1610:ASN:C	2.21	0.43
1:G:1658:PRO:O	1:G:1659:ASP:HB2	2.18	0.43
2:H:27:PHE:HA	2:H:30:ALA:HB3	2.01	0.43
2:H:211:GLN:O	2:H:212:GLY:C	2.56	0.43
2:H:801:UNK:C	2:H:803:UNK:N	2.78	0.43
2:H:1585:UNK:O	2:H:1587:UNK:N	2.52	0.43
2:H:1716:ASN:O	2:H:1765:ARG:HB2	2.17	0.43
2:H:1737:ILE:HG23	2:H:1755:ILE:CG2	2.49	0.43
2:H:1778:GLN:O	2:H:1779:PRO:C	2.54	0.43
2:H:1854:MET:CE	2:H:1957:UNK:HA	2.49	0.43
1:A:695:GLY:C	1:A:697:LEU:N	2.71	0.43
1:A:776:GLU:HB3	1:A:779:ILE:HD11	2.00	0.43
1:A:826:MET:HE2	1:A:826:MET:HB3	1.90	0.43
1:A:1062:TYR:HB2	1:A:1077:ASP:OD1	2.19	0.43
1:A:1075:TRP:O	1:A:1076:VAL:CG1	2.54	0.43
1:A:1080:THR:HG1	1:A:1083:PRO:CG	2.31	0.43
1:A:1184:LEU:HD12	1:A:1185:VAL:H	1.82	0.43
1:A:1232:TYR:HE1	1:A:1705:PRO:CD	2.28	0.43
1:A:1237:TYR:OH	1:A:1396:MET:HB2	2.18	0.43
1:A:1286:TRP:HA	1:A:1289:MET:HG3	2.00	0.43
1:A:1329:VAL:HG11	1:A:1385:GLN:HB2	2.00	0.43
1:A:1359:GLY:O	1:A:1360:ARG:C	2.57	0.43
1:A:1430:ARG:NH1	1:A:1652:GLN:HG3	2.34	0.43
1:A:1581:THR:O	1:A:1582:GLY:C	2.57	0.43
1:A:1615:ASP:CG	1:A:1617:ILE:HG12	2.38	0.43
1:A:1625:LEU:CD2	1:A:1626:TYR:CD1	3.02	0.43
1:A:1665:ILE:O	1:A:1666:THR:CB	2.66	0.43
2:B:101:ILE:HG13	2:B:126:TYR:CG	2.54	0.43
2:B:230:TYR:C	2:B:232:LEU:H	2.19	0.43
2:B:234:ILE:HD11	2:B:310:CYS:HB2	2.00	0.43
2:B:433:VAL:H	2:B:434:PRO:CD	2.19	0.43
2:B:554:UNK:O	2:B:555:UNK:C	2.66	0.43
2:B:597:UNK:C	2:B:599:UNK:N	2.82	0.43
2:B:998:UNK:O	2:B:999:UNK:C	2.65	0.43
2:B:1614:UNK:CB	2:B:1649:UNK:O	2.66	0.43
2:B:1678:MET:O	2:B:1681:TYR:N	2.51	0.43
2:B:1696:ASN:C	2:B:1698:PHE:N	2.71	0.43
2:B:1799:PRO:O	2:B:1800:ALA:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1812:TYR:C	2:B:1814:ALA:N	2.71	0.43
2:B:1903:ASP:OD1	2:B:1904:LEU:N	2.52	0.43
1:D:691:GLU:O	1:D:692:VAL:C	2.57	0.43
1:D:840:SER:OG	1:D:841:GLU:OE1	2.35	0.43
1:D:890:LYS:C	1:D:892:GLY:N	2.72	0.43
1:D:914:VAL:O	1:D:915:GLU:C	2.57	0.43
1:D:1332:TYR:N	1:D:1587:ALA:CB	2.73	0.43
1:D:1341:PHE:C	1:D:1343:PHE:N	2.71	0.43
1:D:1354:GLU:O	1:D:1358:HIS:N	2.43	0.43
1:D:1430:ARG:HH12	1:D:1652:GLN:HG3	1.83	0.43
1:D:1438:TYR:CD1	1:D:1439:ALA:N	2.86	0.43
1:D:1462:TRP:HE3	1:D:1463:VAL:N	2.16	0.43
1:D:1525:ALA:C	1:D:1527:ALA:N	2.72	0.43
1:D:1625:LEU:CD2	1:D:1626:TYR:HD1	2.31	0.43
1:D:1714:VAL:HG13	1:D:1731:LEU:HD22	1.99	0.43
2:E:131:ILE:CD1	2:E:182:VAL:CG1	2.96	0.43
2:E:522:GLY:O	2:E:556:UNK:HA	2.19	0.43
2:E:799:UNK:O	2:E:802:UNK:N	2.51	0.43
2:E:819:UNK:O	2:E:820:UNK:C	2.67	0.43
1:G:557:UNK:O	1:G:559:UNK:N	2.51	0.43
1:G:613:UNK:O	1:G:614:UNK:O	2.37	0.43
1:G:625:UNK:O	1:G:628:UNK:CB	2.67	0.43
1:G:869:ILE:CG2	1:G:926:LEU:HB2	2.38	0.43
1:G:1030:TRP:CZ2	1:G:1580:LEU:CD1	3.00	0.43
1:G:1195:ALA:O	1:G:1196:LYS:HB2	2.17	0.43
1:G:1213:LEU:HD22	1:G:1213:LEU:HA	1.73	0.43
1:G:1220:VAL:C	1:G:1222:ALA:N	2.72	0.43
1:G:1308:SER:OG	1:G:1589:GLY:HA3	2.18	0.43
1:G:1426:LEU:HD12	1:G:1427:THR:OG1	2.19	0.43
1:G:1466:GLU:O	1:G:1469:ALA:N	2.52	0.43
1:G:1475:GLU:HG3	1:G:1762:UNK:CB	2.47	0.43
1:G:1780:UNK:C	1:G:1782:UNK:N	2.79	0.43
1:G:1793:UNK:C	1:G:1795:UNK:N	2.79	0.43
2:H:131:ILE:CD1	2:H:182:VAL:CG1	2.97	0.43
2:H:252:THR:O	2:H:256:LEU:HB2	2.18	0.43
2:H:311:TYR:O	2:H:315:PRO:HB3	2.18	0.43
2:H:729:UNK:O	2:H:731:UNK:N	2.52	0.43
2:H:737:UNK:O	2:H:738:UNK:C	2.67	0.43
2:H:836:UNK:CA	2:H:1028:UNK:HA	2.45	0.43
2:H:1584:UNK:O	2:H:1586:UNK:N	2.52	0.43
2:H:1706:ILE:HG22	2:H:1710:VAL:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1833:TYR:C	2:H:1835:GLY:N	2.72	0.43
2:H:2006:UNK:HA	2:H:2009:UNK:O	2.19	0.43
1:A:261:UNK:C	1:A:263:UNK:N	2.80	0.43
1:A:398:UNK:O	1:A:401:UNK:N	2.52	0.43
1:A:451:UNK:O	1:A:452:UNK:C	2.66	0.43
1:A:613:UNK:O	1:A:614:UNK:O	2.37	0.43
1:A:819:PRO:HA	1:A:861:GLN:HA	2.00	0.43
1:A:834:GLY:O	1:A:836:ASP:N	2.52	0.43
1:A:936:LEU:HD23	1:A:936:LEU:O	2.18	0.43
1:A:997:PRO:O	1:A:1002:LYS:HE3	2.19	0.43
1:A:1103:ILE:HB	1:A:1104:ARG:H	1.55	0.43
1:A:1232:TYR:O	1:A:1235:TYR:HD2	2.02	0.43
1:A:1433:HIS:HD2	1:A:1519:ILE:HG12	1.83	0.43
1:A:1447:TYR:O	1:A:1448:ARG:HB3	2.18	0.43
1:A:1459:ILE:CD1	1:A:1460:LYS:N	2.81	0.43
1:A:1522:LEU:C	1:A:1524:GLY:N	2.71	0.43
2:B:9:LEU:CD1	2:B:58:ALA:HB2	2.48	0.43
2:B:233:SER:HA	2:B:424:ALA:CB	2.49	0.43
2:B:242:GLY:O	2:B:243:VAL:C	2.56	0.43
2:B:258:PHE:HB3	2:B:259:THR:H	1.57	0.43
2:B:335:PRO:HA	2:B:420:PHE:HE2	1.81	0.43
2:B:369:SER:O	2:B:370:LEU:HD23	2.19	0.43
2:B:707:UNK:O	2:B:710:UNK:CB	2.67	0.43
2:B:969:UNK:O	2:B:972:UNK:N	2.52	0.43
2:B:1343:UNK:O	2:B:1344:UNK:CB	2.67	0.43
2:B:1719:ILE:HG22	2:B:1721:PHE:CD1	2.54	0.43
2:B:1854:MET:HA	2:B:1895:ASN:HD22	1.84	0.43
2:B:1929:LYS:HE2	2:B:1929:LYS:HA	2.01	0.43
2:B:1933:LEU:HA	2:B:1936:VAL:CG1	2.48	0.43
1:D:455:UNK:O	1:D:456:UNK:C	2.66	0.43
1:D:871:TRP:HH2	1:D:881:ASN:O	2.01	0.43
1:D:1110:LEU:HG	1:D:1189:ILE:H	1.84	0.43
1:D:1158:PRO:O	1:D:1159:GLU:HB2	2.18	0.43
1:D:1312:VAL:O	1:D:1313:ASP:C	2.57	0.43
1:D:1425:ILE:O	1:D:1426:LEU:CD2	2.64	0.43
1:D:1431:GLU:O	1:D:1432:HIS:O	2.37	0.43
1:D:1447:TYR:CE2	1:D:1450:ARG:CG	3.01	0.43
1:D:1550:ASP:O	1:D:1551:LYS:O	2.37	0.43
1:D:1609:ARG:NE	1:D:1610:ASN:N	2.63	0.43
1:D:1625:LEU:CD2	1:D:1626:TYR:CD1	3.01	0.43
2:E:52:ASP:HB2	2:E:113:ASP:OD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:91:PHE:HZ	2:E:101:ILE:HD11	1.82	0.43
2:E:159:ILE:HD12	2:E:501:ILE:CG2	2.49	0.43
2:E:369:SER:O	2:E:370:LEU:HD23	2.19	0.43
2:E:577:UNK:O	2:E:579:UNK:N	2.52	0.43
2:E:606:UNK:O	2:E:607:UNK:CB	2.67	0.43
2:E:1067:UNK:O	2:E:1069:UNK:N	2.52	0.43
3:F:29:UNK:O	3:F:32:UNK:N	2.52	0.43
3:F:38:UNK:C	3:F:40:UNK:N	2.79	0.43
1:G:670:UNK:C	1:G:671:VAL:HG23	2.49	0.43
1:G:695:GLY:C	1:G:697:LEU:N	2.72	0.43
1:G:774:ILE:HD13	1:G:774:ILE:HA	1.93	0.43
1:G:776:GLU:HB3	1:G:779:ILE:HD11	2.00	0.43
1:G:893:VAL:C	1:G:895:THR:N	2.70	0.43
1:G:909:LEU:HG	1:G:909:LEU:O	2.19	0.43
1:G:996:LYS:NZ	1:G:1400:ILE:CG1	2.82	0.43
1:G:1190:PRO:HG3	1:G:1379:ALA:HA	2.00	0.43
1:G:1264:ARG:NH2	1:G:1270:VAL:O	2.51	0.43
1:G:1342:GLU:C	1:G:1343:PHE:O	2.53	0.43
1:G:1475:GLU:OE1	1:G:1475:GLU:HA	2.19	0.43
1:G:1487:LEU:C	1:G:1490:THR:HG22	2.38	0.43
1:G:1558:ASN:OD1	1:G:1621:PHE:CD2	2.71	0.43
1:G:1637:ARG:HB3	1:G:1638:ALA:H	1.58	0.43
2:H:52:ASP:HB2	2:H:113:ASP:OD1	2.19	0.43
2:H:250:VAL:O	2:H:253:ALA:N	2.52	0.43
2:H:258:PHE:HB3	2:H:259:THR:H	1.58	0.43
2:H:354:ASN:O	2:H:356:THR:N	2.51	0.43
2:H:355:LYS:O	2:H:358:SER:HB2	2.19	0.43
2:H:474:SER:O	2:H:475:ILE:CB	2.67	0.43
2:H:474:SER:C	2:H:476:SER:H	2.22	0.43
2:H:932:UNK:C	2:H:934:UNK:N	2.82	0.43
2:H:996:UNK:O	2:H:998:UNK:N	2.51	0.43
2:H:1148:UNK:C	2:H:1149:UNK:O	2.66	0.43
2:H:1280:UNK:O	2:H:1282:UNK:N	2.52	0.43
2:H:1722:GLY:O	2:H:1723:GLY:C	2.57	0.43
2:H:1867:SER:O	2:H:1868:GLN:C	2.57	0.43
2:H:1900:ALA:C	2:H:1902:GLY:N	2.72	0.43
2:H:2033:UNK:O	2:H:2034:UNK:C	2.67	0.43
1:A:687:SER:O	1:A:689:GLY:N	2.52	0.43
1:A:796:LEU:O	1:A:799:ILE:HG13	2.19	0.43
1:A:1028:GLY:O	1:A:1030:TRP:N	2.51	0.43
1:A:1139:GLU:OE2	1:A:1166:LYS:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1262:LYS:NZ	1:A:1262:LYS:HB3	2.34	0.43
1:A:1352:THR:C	1:A:1353:LEU:O	2.56	0.43
1:A:1371:THR:C	1:A:1373:ARG:N	2.71	0.43
1:A:1572:VAL:O	1:A:1572:VAL:HG23	2.18	0.43
1:A:1606:PRO:O	1:A:1626:TYR:C	2.56	0.43
2:B:135:ARG:O	2:B:136:PRO:C	2.57	0.43
2:B:149:VAL:HG22	2:B:155:GLN:HA	2.00	0.43
2:B:209:PHE:CD1	2:B:209:PHE:N	2.87	0.43
2:B:209:PHE:CE1	2:B:235:PRO:HB2	2.54	0.43
2:B:433:VAL:HA	2:B:436:SER:HB3	2.01	0.43
2:B:543:PHE:C	2:B:545:GLN:H	2.22	0.43
2:B:742:UNK:O	2:B:743:UNK:C	2.67	0.43
2:B:772:UNK:CB	2:B:777:UNK:O	2.67	0.43
2:B:1451:UNK:O	2:B:1452:UNK:O	2.37	0.43
2:B:1691:TRP:CE3	2:B:1783:LEU:HD13	2.53	0.43
2:B:1718:THR:HG23	2:B:1765:ARG:CB	2.49	0.43
2:B:2000:UNK:O	2:B:2002:UNK:N	2.51	0.43
1:D:1013:LEU:C	1:D:1013:LEU:CD2	2.85	0.43
1:D:1022:THR:O	1:D:1226:SER:HB2	2.18	0.43
1:D:1144:PHE:H	1:D:1144:PHE:HD1	1.65	0.43
1:D:1289:MET:C	1:D:1290:LEU:HD12	2.39	0.43
1:D:1447:TYR:O	1:D:1448:ARG:HB3	2.18	0.43
1:D:1449:LYS:C	1:D:1451:GLN:N	2.70	0.43
1:D:1554:SER:O	1:D:1555:ALA:HB2	2.18	0.43
2:E:59:GLU:HB3	2:E:125:ASN:ND2	2.34	0.43
2:E:252:THR:O	2:E:256:LEU:HB2	2.18	0.43
2:E:259:THR:H	2:E:262:GLU:HB2	1.83	0.43
2:E:404:GLN:C	2:E:406:ARG:N	2.71	0.43
2:E:427:PHE:O	2:E:428:HIS:C	2.56	0.43
2:E:470:VAL:O	2:E:470:VAL:HG12	2.18	0.43
2:E:517:HIS:CD2	2:E:517:HIS:C	2.92	0.43
2:E:962:UNK:C	2:E:964:UNK:N	2.81	0.43
2:E:1737:ILE:HG23	2:E:1755:ILE:CG2	2.48	0.43
2:E:1738:PHE:HB2	2:E:1755:ILE:HG21	2.01	0.43
2:E:1814:ALA:HA	2:E:1817:SER:OG	2.19	0.43
2:E:1900:ALA:C	2:E:1902:GLY:N	2.72	0.43
1:G:491:UNK:O	1:G:492:UNK:C	2.66	0.43
1:G:669:UNK:O	1:G:670:UNK:O	2.35	0.43
1:G:694:GLN:HB3	1:G:725:TYR:CE2	2.54	0.43
1:G:826:MET:CE	1:G:847:GLU:HG3	2.46	0.43
1:G:994:GLU:O	1:G:995:LEU:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1002:LYS:CE	1:G:1670:TYR:OH	2.67	0.43
1:G:1089:VAL:O	1:G:1090:LYS:C	2.57	0.43
1:G:1290:LEU:HA	1:G:1701:LYS:CD	2.48	0.43
1:G:1303:GLY:O	1:G:1304:ALA:O	2.37	0.43
1:G:1332:TYR:HA	1:G:1382:ALA:HA	2.01	0.43
1:G:1519:ILE:HG12	1:G:1521:PRO:CD	2.49	0.43
1:G:1550:ASP:O	1:G:1551:LYS:C	2.57	0.43
1:G:1562:LYS:O	1:G:1564:LEU:N	2.52	0.43
1:G:1625:LEU:CD2	1:G:1626:TYR:CD1	3.02	0.43
2:H:267:LEU:HD23	2:H:457:ILE:HD13	2.01	0.43
2:H:408:PRO:CG	2:H:409:PHE:N	2.80	0.43
2:H:653:UNK:O	2:H:657:UNK:N	2.52	0.43
2:H:1020:UNK:O	2:H:1022:UNK:N	2.32	0.43
2:H:1318:UNK:CB	2:H:1366:UNK:O	2.67	0.43
2:H:1451:UNK:O	2:H:1452:UNK:O	2.37	0.43
2:H:1828:VAL:O	2:H:1829:GLU:C	2.57	0.43
2:H:1869:GLU:C	2:H:1871:LEU:H	2.22	0.43
2:H:1871:LEU:C	2:H:1873:TYR:N	2.71	0.43
1:A:727:ALA:O	1:A:728:LYS:C	2.56	0.43
1:A:1009:LEU:HD22	1:A:1446:LYS:HG3	2.01	0.43
1:A:1017:ARG:CZ	1:A:1320:LEU:HD13	2.49	0.43
1:A:1094:GLU:HG3	1:A:1095:THR:H	1.83	0.43
1:A:1144:PHE:H	1:A:1144:PHE:HD1	1.66	0.43
1:A:1284:SER:HB2	1:A:1298:ILE:HD11	2.00	0.43
1:A:1329:VAL:CG1	1:A:1330:GLY:H	2.14	0.43
1:A:1425:ILE:HG21	1:A:1648:GLN:OE1	2.19	0.43
1:A:1433:HIS:HE1	1:A:1518:ARG:HH21	1.66	0.43
1:A:1462:TRP:HE3	1:A:1463:VAL:N	2.17	0.43
1:A:1475:GLU:OE1	1:A:1475:GLU:HA	2.19	0.43
1:A:1491:ARG:HG2	1:A:1491:ARG:HH11	1.83	0.43
1:A:1493:ILE:HG13	1:A:1494:HIS:N	2.34	0.43
1:A:1502:ARG:O	1:A:1504:ALA:N	2.52	0.43
1:A:1625:LEU:HD11	1:A:1626:TYR:CD1	2.53	0.43
1:A:1641:ILE:HG12	1:A:1652:GLN:NE2	2.34	0.43
2:B:432:LEU:HD21	2:B:484:ILE:HG22	2.01	0.43
2:B:1357:UNK:CB	2:B:1406:UNK:N	2.81	0.43
2:B:1650:UNK:O	2:B:1652:UNK:N	2.52	0.43
2:B:1737:ILE:HD12	2:B:1755:ILE:HG21	1.99	0.43
2:B:1742:VAL:CG2	2:B:1837:THR:HA	2.49	0.43
1:D:695:GLY:C	1:D:697:LEU:N	2.72	0.43
1:D:860:ASN:HB2	1:D:861:GLN:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:998:TYR:O	1:D:1001:VAL:HB	2.19	0.43
1:D:1038:GLU:OE2	1:D:1049:GLY:HA3	2.18	0.43
1:D:1189:ILE:CB	1:D:1190:PRO:HD3	2.49	0.43
1:D:1236:LYS:O	1:D:1236:LYS:CG	2.57	0.43
1:D:1553:GLU:HB2	1:D:1644:PHE:CE2	2.49	0.43
1:D:1719:LEU:CB	1:D:1737:ASN:OD1	2.67	0.43
2:E:215:ILE:HG22	2:E:215:ILE:O	2.17	0.43
2:E:267:LEU:HD23	2:E:457:ILE:HD13	2.01	0.43
2:E:543:PHE:C	2:E:545:GLN:H	2.22	0.43
2:E:1020:UNK:O	2:E:1022:UNK:N	2.36	0.43
2:E:1235:UNK:O	2:E:1236:UNK:CB	2.67	0.43
2:E:1724:GLU:O	2:E:1729:ILE:CB	2.67	0.43
2:E:1812:TYR:O	2:E:1814:ALA:N	2.43	0.43
1:G:689:GLY:HA2	1:G:692:VAL:CB	2.48	0.43
1:G:826:MET:HE3	1:G:826:MET:CA	2.49	0.43
1:G:836:ASP:OD1	1:G:839:TYR:HB3	2.19	0.43
1:G:893:VAL:O	1:G:893:VAL:HG12	2.19	0.43
1:G:930:LEU:O	1:G:932:PHE:N	2.51	0.43
1:G:1424:GLY:C	1:G:1426:LEU:N	2.69	0.43
1:G:1562:LYS:C	1:G:1564:LEU:N	2.71	0.43
1:G:1583:HIS:HE2	1:G:1588:ALA:HA	1.83	0.43
1:G:1811:UNK:C	1:G:1813:UNK:N	2.81	0.43
2:H:101:ILE:HG13	2:H:126:TYR:CG	2.54	0.43
2:H:174:ARG:HA	2:H:219:LEU:HD22	2.01	0.43
2:H:248:HIS:CB	2:H:529:VAL:HG11	2.49	0.43
2:H:281:VAL:O	2:H:283:ILE:N	2.51	0.43
2:H:479:ILE:O	2:H:479:ILE:HG22	2.19	0.43
2:H:1012:UNK:O	2:H:1015:UNK:CB	2.66	0.43
2:H:1680:LEU:C	2:H:1680:LEU:CD2	2.88	0.43
2:H:1929:LYS:HE2	2:H:1929:LYS:HA	2.01	0.43
1:A:561:UNK:O	1:A:562:UNK:C	2.67	0.42
1:A:673:PHE:O	1:A:674:LYS:O	2.37	0.42
1:A:796:LEU:CG	1:A:797:THR:N	2.80	0.42
1:A:826:MET:HG3	1:A:867:ALA:N	2.34	0.42
1:A:861:GLN:C	1:A:862:LEU:HD23	2.40	0.42
1:A:886:GLU:C	1:A:888:ILE:H	2.23	0.42
1:A:1471:LYS:CA	1:A:1474:ALA:HB2	2.47	0.42
1:A:1515:ARG:NH1	1:A:1515:ARG:HG2	2.34	0.42
2:B:27:PHE:HA	2:B:30:ALA:HB3	2.01	0.42
2:B:145:LEU:HD22	2:B:550:UNK:O	2.19	0.42
2:B:157:VAL:HG12	2:B:158:ALA:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:824:UNK:HA	2:B:837:UNK:CB	2.49	0.42
2:B:1213:UNK:O	2:B:1214:UNK:O	2.37	0.42
2:B:1332:UNK:O	2:B:1334:UNK:N	2.52	0.42
2:B:1360:UNK:O	2:B:1362:UNK:N	2.52	0.42
2:B:1692:ASN:O	2:B:1696:ASN:CB	2.66	0.42
2:B:1983:UNK:O	2:B:1985:UNK:N	2.52	0.42
3:C:2:UNK:C	3:C:4:UNK:N	2.82	0.42
1:D:644:UNK:CB	1:D:647:UNK:C	2.96	0.42
1:D:996:LYS:NZ	1:D:1400:ILE:CG1	2.82	0.42
1:D:1030:TRP:N	1:D:1030:TRP:CD1	2.87	0.42
1:D:1196:LYS:HB2	1:D:1196:LYS:HZ2	1.84	0.42
1:D:1286:TRP:HA	1:D:1289:MET:HG3	2.00	0.42
1:D:1408:ALA:O	1:D:1409:THR:CG2	2.57	0.42
1:D:1706:TYR:N	1:D:1706:TYR:HD1	2.13	0.42
2:E:310:CYS:SG	2:E:484:ILE:HG21	2.59	0.42
2:E:344:LEU:CD1	2:E:345:THR:H	2.22	0.42
2:E:499:THR:O	2:E:500:HIS:ND1	2.52	0.42
2:E:515:LEU:O	2:E:518:ARG:HB2	2.18	0.42
2:E:517:HIS:CE1	2:E:538:ASP:OD1	2.72	0.42
2:E:557:UNK:O	2:E:777:UNK:CB	2.66	0.42
2:E:616:UNK:C	2:E:618:UNK:H	2.23	0.42
2:E:726:UNK:O	2:E:727:UNK:CB	2.66	0.42
2:E:729:UNK:O	2:E:731:UNK:N	2.52	0.42
2:E:1451:UNK:O	2:E:1452:UNK:O	2.36	0.42
2:E:1462:UNK:C	2:E:1464:UNK:N	2.81	0.42
2:E:1719:ILE:HG22	2:E:1721:PHE:CD1	2.54	0.42
2:E:1722:GLY:O	2:E:1723:GLY:C	2.57	0.42
2:E:1826:SER:O	2:E:1827:LEU:C	2.55	0.42
2:E:1903:ASP:O	2:E:1904:LEU:C	2.57	0.42
1:G:622:UNK:C	1:G:624:UNK:N	2.78	0.42
1:G:1072:TYR:N	1:G:1072:TYR:CD1	2.87	0.42
1:G:1151:LYS:HD2	1:G:1151:LYS:N	2.33	0.42
1:G:1329:VAL:HG13	1:G:1384:ILE:HD12	2.01	0.42
1:G:1597:LEU:HD23	1:G:1597:LEU:N	2.34	0.42
1:G:1625:LEU:CD2	1:G:1626:TYR:HD1	2.32	0.42
1:G:1673:TYR:CZ	1:G:1677:VAL:HG21	2.54	0.42
1:G:1700:SER:CB	1:G:1702:GLU:OE2	2.67	0.42
2:H:221:ASN:C	2:H:223:SER:H	2.21	0.42
2:H:298:LYS:O	2:H:299:ALA:C	2.57	0.42
2:H:473:GLY:C	2:H:475:ILE:H	2.22	0.42
2:H:1927:LEU:HA	2:H:1927:LEU:HD23	1.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1932:SER:O	2:H:1936:VAL:HG12	2.19	0.42
2:H:2049:UNK:O	2:H:2051:UNK:N	2.51	0.42
1:A:279:UNK:C	1:A:281:UNK:N	2.81	0.42
1:A:677:TYR:C	1:A:678:VAL:HG23	2.39	0.42
1:A:788:SER:O	1:A:791:ALA:HB3	2.19	0.42
1:A:948:VAL:HG12	1:A:949:GLU:N	2.34	0.42
1:A:1072:TYR:CD1	1:A:1072:TYR:N	2.87	0.42
1:A:1094:GLU:HA	1:A:1094:GLU:OE2	2.19	0.42
1:A:1234:MET:O	1:A:1239:HIS:CD2	2.58	0.42
1:A:1286:TRP:HD1	1:A:1290:LEU:HD11	1.83	0.42
1:A:1290:LEU:HG	1:A:1701:LYS:HZ3	1.84	0.42
1:A:1408:ALA:CB	1:A:1651:GLY:C	2.81	0.42
1:A:1547:LYS:O	1:A:1547:LYS:HG2	2.18	0.42
1:A:1618:LEU:O	1:A:1619:GLU:HB2	2.19	0.42
2:B:187:LEU:O	2:B:191:SER:OG	2.31	0.42
2:B:246:LEU:CD1	2:B:296:VAL:HG13	2.47	0.42
2:B:252:THR:O	2:B:256:LEU:HB2	2.19	0.42
2:B:499:THR:O	2:B:500:HIS:ND1	2.51	0.42
2:B:1042:UNK:C	2:B:1044:UNK:N	2.81	0.42
2:B:1692:ASN:O	2:B:1696:ASN:N	2.43	0.42
2:B:1730:ARG:C	2:B:1732:ASN:H	2.21	0.42
2:B:1833:TYR:C	2:B:1835:GLY:N	2.72	0.42
2:B:1968:UNK:C	2:B:1970:UNK:N	2.82	0.42
1:D:438:UNK:CB	1:D:1358:HIS:HD2	2.33	0.42
1:D:1015:LEU:CD2	1:D:1016:GLU:H	2.32	0.42
1:D:1033:ALA:O	1:D:1034:ARG:C	2.58	0.42
1:D:1073:THR:CG2	1:D:1074:GLY:H	2.31	0.42
1:D:1210:PRO:HB2	1:D:1211:ILE:H	1.55	0.42
1:D:1211:ILE:O	1:D:1212:THR:C	2.58	0.42
1:D:1246:CYS:H	1:D:1328:ILE:CG2	2.31	0.42
1:D:1284:SER:HB3	1:D:1298:ILE:HD11	2.01	0.42
1:D:1326:ILE:O	1:D:1326:ILE:HG22	2.19	0.42
1:D:1608:ASN:O	1:D:1610:ASN:ND2	2.51	0.42
1:D:1641:ILE:O	1:D:1642:THR:HB	2.19	0.42
2:E:311:TYR:O	2:E:315:PRO:HB3	2.19	0.42
2:E:1857:ILE:HG22	2:E:1858:ASN:N	2.34	0.42
2:E:1871:LEU:C	2:E:1873:TYR:N	2.71	0.42
2:E:1909:THR:HG23	2:E:1912:ASN:ND2	2.34	0.42
1:G:177:UNK:O	1:G:178:UNK:C	2.66	0.42
1:G:491:UNK:C	1:G:493:UNK:N	2.80	0.42
1:G:695:GLY:O	1:G:696:LEU:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:810:LYS:O	1:G:811:SER:C	2.57	0.42
1:G:940:THR:HA	1:G:943:LEU:HD12	2.00	0.42
1:G:1398:VAL:HG22	1:G:1399:PRO:N	2.34	0.42
1:G:1403:ILE:CG2	1:G:1657:HIS:O	2.67	0.42
1:G:1447:TYR:O	1:G:1448:ARG:HB3	2.19	0.42
1:G:1485:PHE:CD2	1:G:1485:PHE:C	2.92	0.42
2:H:1830:VAL:HA	2:H:1833:TYR:HB2	2.00	0.42
2:H:1855:ILE:HB	2:H:1950:UNK:O	2.18	0.42
1:A:689:GLY:HA2	1:A:692:VAL:CB	2.48	0.42
1:A:719:GLN:HG3	1:A:720:SER:H	1.82	0.42
1:A:779:ILE:HD12	1:A:837:GLY:HA3	2.00	0.42
1:A:843:LYS:O	1:A:846:LEU:N	2.52	0.42
1:A:1067:LEU:C	1:A:1069:GLY:N	2.72	0.42
1:A:1243:VAL:CG1	1:A:1325:ARG:H	2.25	0.42
1:A:1283:MET:HE1	1:A:1283:MET:H	1.84	0.42
1:A:1329:VAL:HB	1:A:1385:GLN:O	2.19	0.42
1:A:1366:SER:O	1:A:1579:PHE:CD1	2.73	0.42
1:A:1376:PHE:CG	1:A:1377:MET:N	2.84	0.42
1:A:1573:ILE:HG23	1:A:1624:VAL:HG11	2.00	0.42
2:B:211:GLN:O	2:B:212:GLY:C	2.56	0.42
2:B:261:GLY:HA2	2:B:264:ARG:CG	2.49	0.42
2:B:262:GLU:O	2:B:265:SER:HB3	2.19	0.42
2:B:265:SER:OG	2:B:266:TYR:N	2.51	0.42
2:B:439:ILE:HG13	2:B:440:ASN:N	2.33	0.42
2:B:1559:UNK:HA	2:B:1564:UNK:CB	2.49	0.42
2:B:1897:GLN:O	2:B:1899:VAL:N	2.53	0.42
1:D:451:UNK:C	1:D:453:UNK:N	2.82	0.42
1:D:625:UNK:HA	1:D:628:UNK:CB	2.50	0.42
1:D:743:GLN:O	1:D:745:VAL:N	2.52	0.42
1:D:992:PHE:HA	1:D:993:PRO:HB2	2.01	0.42
1:D:1141:ALA:CA	1:D:1144:PHE:CE1	2.98	0.42
1:D:1265:PHE:CG	1:D:1265:PHE:O	2.72	0.42
1:D:1391:ASP:O	1:D:1393:ALA:N	2.51	0.42
1:D:1616:LYS:C	1:D:1618:LEU:N	2.71	0.42
1:D:1692:MET:O	1:D:1692:MET:HG2	2.19	0.42
2:E:335:PRO:HA	2:E:420:PHE:HE2	1.85	0.42
2:E:373:GLY:HA2	2:E:519:ASN:CG	2.38	0.42
2:E:408:PRO:CG	2:E:409:PHE:N	2.82	0.42
2:E:478:ARG:O	2:E:480:VAL:N	2.51	0.42
2:E:591:UNK:O	2:E:592:UNK:CB	2.66	0.42
2:E:1778:GLN:NE2	2:E:1835:GLY:HA2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1856:ALA:O	2:E:1857:ILE:HG12	2.19	0.42
2:E:1877:ARG:O	2:E:1878:VAL:HG13	2.19	0.42
1:G:796:LEU:CG	1:G:797:THR:N	2.82	0.42
1:G:840:SER:OG	1:G:841:GLU:OE1	2.37	0.42
1:G:1150:ASP:HB3	1:G:1151:LYS:H	1.69	0.42
1:G:1173:LEU:O	1:G:1174:TYR:O	2.36	0.42
1:G:1211:ILE:O	1:G:1214:PHE:N	2.52	0.42
1:G:1211:ILE:HG13	1:G:1283:MET:SD	2.59	0.42
1:G:1351:ASN:O	1:G:1352:THR:C	2.56	0.42
1:G:1460:LYS:HD3	1:G:1778:UNK:CB	2.48	0.42
1:G:1471:LYS:CA	1:G:1474:ALA:HB2	2.48	0.42
1:G:1625:LEU:HD11	1:G:1626:TYR:CD1	2.55	0.42
1:G:1782:UNK:C	1:G:1784:UNK:N	2.74	0.42
2:H:554:UNK:O	2:H:555:UNK:C	2.67	0.42
2:H:1738:PHE:HB2	2:H:1755:ILE:HG21	2.00	0.42
2:H:1742:VAL:CG2	2:H:1837:THR:HA	2.50	0.42
2:H:1931:LEU:O	2:H:1934:GLU:HB3	2.19	0.42
1:A:298:UNK:O	1:A:299:UNK:C	2.67	0.42
1:A:491:UNK:O	1:A:492:UNK:C	2.67	0.42
1:A:669:UNK:O	1:A:670:UNK:O	2.38	0.42
1:A:796:LEU:C	1:A:800:LEU:HD23	2.40	0.42
1:A:813:ARG:HG3	1:A:813:ARG:HH11	1.83	0.42
1:A:884:ILE:HB	1:A:885:ALA:H	1.69	0.42
1:A:996:LYS:NZ	1:A:1400:ILE:CG1	2.83	0.42
1:A:1010:GLU:OE1	1:A:1013:LEU:CD1	2.68	0.42
1:A:1412:ASP:O	1:A:1425:ILE:HG23	2.19	0.42
1:A:1423:LYS:CG	1:A:1424:GLY:H	2.27	0.42
1:A:1431:GLU:HG2	1:A:1522:LEU:HD13	2.01	0.42
1:A:1631:LEU:HB3	1:A:1634:ASP:HB2	2.00	0.42
1:A:1673:TYR:CZ	1:A:1677:VAL:HG21	2.55	0.42
2:B:557:UNK:O	2:B:777:UNK:CB	2.67	0.42
2:B:775:UNK:C	2:B:776:UNK:O	2.68	0.42
2:B:819:UNK:O	2:B:820:UNK:C	2.67	0.42
2:B:1030:UNK:O	2:B:1031:UNK:CB	2.66	0.42
2:B:1323:UNK:O	2:B:1327:UNK:N	2.52	0.42
2:B:1549:UNK:O	2:B:1550:UNK:O	2.36	0.42
2:B:1731:GLU:CA	2:B:1735:ALA:HB3	2.49	0.42
2:B:1855:ILE:HB	2:B:1950:UNK:O	2.20	0.42
3:C:29:UNK:O	3:C:32:UNK:N	2.53	0.42
1:D:563:UNK:O	1:D:564:UNK:C	2.67	0.42
1:D:1083:PRO:CG	1:D:1084:VAL:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1471:LYS:CA	1:D:1474:ALA:HB2	2.48	0.42
1:D:1641:ILE:HG12	1:D:1642:THR:H	1.84	0.42
1:D:1661:LEU:O	1:D:1662:TYR:CG	2.72	0.42
1:D:1665:ILE:O	1:D:1666:THR:CB	2.67	0.42
2:E:88:LEU:HD21	2:E:130:ARG:HA	2.00	0.42
2:E:98:GLY:C	2:E:100:ASP:N	2.72	0.42
2:E:131:ILE:HG21	2:E:182:VAL:HG22	2.01	0.42
2:E:801:UNK:C	2:E:803:UNK:N	2.79	0.42
2:E:948:UNK:O	2:E:949:UNK:C	2.67	0.42
2:E:1684:SER:C	2:E:1686:ALA:N	2.72	0.42
2:E:1968:UNK:C	2:E:1970:UNK:N	2.82	0.42
1:G:673:PHE:O	1:G:674:LYS:O	2.37	0.42
1:G:700:GLY:CA	1:G:727:ALA:HB3	2.39	0.42
1:G:724:LYS:HD3	1:G:725:TYR:HE1	1.84	0.42
1:G:826:MET:HB2	1:G:868:ILE:HG12	2.00	0.42
1:G:871:TRP:HH2	1:G:881:ASN:O	2.02	0.42
1:G:886:GLU:C	1:G:888:ILE:H	2.22	0.42
1:G:992:PHE:HA	1:G:993:PRO:HB2	2.00	0.42
1:G:1040:GLU:O	1:G:1606:PRO:HG3	2.19	0.42
1:G:1108:PRO:CB	1:G:1362:PRO:HB2	2.49	0.42
1:G:1133:PRO:HB2	1:G:1134:PHE:H	1.59	0.42
1:G:1394:LEU:HA	1:G:1673:TYR:CE1	2.54	0.42
1:G:1497:ALA:O	1:G:1499:SER:N	2.52	0.42
1:G:1522:LEU:HD12	1:G:1522:LEU:N	2.34	0.42
1:G:1547:LYS:HE3	1:G:1615:ASP:CB	2.49	0.42
1:G:1583:HIS:NE2	1:G:1588:ALA:HA	2.34	0.42
1:G:1604:ILE:CD1	1:G:1630:THR:HB	2.34	0.42
1:G:1640:SER:N	1:G:1654:ILE:HG13	2.35	0.42
1:G:1641:ILE:H	1:G:1641:ILE:CD1	2.02	0.42
2:H:31:SER:O	2:H:34:GLN:N	2.52	0.42
2:H:149:VAL:HG22	2:H:155:GLN:CA	2.49	0.42
2:H:267:LEU:HD12	2:H:268:LYS:N	2.34	0.42
2:H:310:CYS:SG	2:H:484:ILE:HG21	2.59	0.42
2:H:838:UNK:CB	2:H:841:UNK:CB	2.98	0.42
2:H:1042:UNK:C	2:H:1044:UNK:N	2.82	0.42
2:H:1146:UNK:O	2:H:1147:UNK:C	2.67	0.42
2:H:1323:UNK:O	2:H:1327:UNK:N	2.52	0.42
2:H:1522:UNK:C	2:H:1524:UNK:N	2.82	0.42
1:A:173:UNK:O	1:A:174:UNK:C	2.66	0.42
1:A:520:UNK:C	1:A:522:UNK:N	2.79	0.42
1:A:591:UNK:O	1:A:592:UNK:C	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:610:UNK:O	1:A:611:UNK:O	2.37	0.42
1:A:698:GLN:HA	1:A:725:TYR:O	2.19	0.42
1:A:717:TYR:CD2	1:A:718:TYR:CE1	3.01	0.42
1:A:867:ALA:HB1	1:A:905:LEU:CD1	2.49	0.42
1:A:904:ASN:HD22	1:A:904:ASN:H	1.67	0.42
1:A:1023:GLY:N	1:A:1386:ILE:HG13	2.35	0.42
1:A:1060:ILE:HG22	1:A:1079:LYS:CB	2.33	0.42
1:A:1099:GLU:C	1:A:1102:GLY:H	2.14	0.42
1:A:1110:LEU:HG	1:A:1189:ILE:H	1.83	0.42
1:A:1302:VAL:CG2	1:A:1303:GLY:H	2.19	0.42
1:A:1453:VAL:O	1:A:1454:THR:O	2.36	0.42
1:A:1502:ARG:C	1:A:1504:ALA:N	2.71	0.42
1:A:1621:PHE:O	1:A:1622:GLU:O	2.36	0.42
1:A:1641:ILE:CD1	1:A:1653:ALA:O	2.68	0.42
1:A:1665:ILE:HD12	1:A:1669:ARG:CB	2.49	0.42
2:B:344:LEU:HD13	2:B:345:THR:N	2.21	0.42
2:B:389:LEU:HD12	2:B:389:LEU:O	2.20	0.42
2:B:512:LEU:O	2:B:513:GLY:C	2.57	0.42
2:B:817:UNK:O	2:B:818:UNK:C	2.66	0.42
2:B:1718:THR:CB	2:B:1770:LEU:HD13	2.49	0.42
2:B:1733:TYR:HE1	2:B:1760:THR:CG2	2.32	0.42
2:B:1738:PHE:HB2	2:B:1755:ILE:HG21	2.01	0.42
2:B:1814:ALA:HA	2:B:1817:SER:OG	2.20	0.42
2:B:1857:ILE:HG22	2:B:1858:ASN:N	2.34	0.42
2:B:1871:LEU:C	2:B:1873:TYR:N	2.71	0.42
1:D:141:UNK:C	1:D:143:UNK:N	2.80	0.42
1:D:719:GLN:OE1	1:D:1611:ALA:HB1	2.19	0.42
1:D:795:MET:HE3	1:D:839:TYR:HA	2.02	0.42
1:D:808:LYS:HA	1:D:808:LYS:CE	2.28	0.42
1:D:1036:ARG:HE	1:D:1036:ARG:C	2.21	0.42
1:D:1039:MET:HA	1:D:1039:MET:CE	2.48	0.42
1:D:1406:MET:HB3	1:D:1654:ILE:HG22	2.02	0.42
1:D:1463:VAL:O	1:D:1464:GLU:C	2.58	0.42
1:D:1604:ILE:HG22	1:D:1605:ILE:HG12	2.01	0.42
2:E:25:ALA:HB1	2:E:65:LEU:HD21	2.00	0.42
2:E:224:ASN:O	2:E:226:PRO:HD3	2.19	0.42
2:E:248:HIS:C	2:E:250:VAL:N	2.68	0.42
2:E:333:GLY:O	2:E:335:PRO:N	2.53	0.42
2:E:1020:UNK:C	2:E:1022:UNK:N	2.78	0.42
2:E:1332:UNK:O	2:E:1334:UNK:N	2.51	0.42
2:E:1420:UNK:O	2:E:1421:UNK:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1702:TYR:O	2:E:1703:GLY:C	2.58	0.42
2:E:1828:VAL:CG1	2:E:1829:GLU:N	2.83	0.42
2:E:1939:HIS:CD2	2:E:1940:LEU:H	2.33	0.42
1:G:622:UNK:O	1:G:623:UNK:C	2.67	0.42
1:G:631:UNK:C	1:G:632:UNK:O	2.66	0.42
1:G:673:PHE:HZ	1:G:906:LEU:O	2.01	0.42
1:G:904:ASN:HD22	1:G:904:ASN:H	1.64	0.42
1:G:1039:MET:HE3	1:G:1039:MET:CA	2.48	0.42
1:G:1047:LEU:O	1:G:1049:GLY:N	2.53	0.42
1:G:1079:LYS:HE3	1:G:1097:ILE:HG12	2.01	0.42
1:G:1128:GLU:CB	1:G:1177:LYS:HG2	2.49	0.42
1:G:1241:SER:O	1:G:1243:VAL:N	2.38	0.42
1:G:1328:ILE:O	1:G:1385:GLN:O	2.38	0.42
1:G:1378:GLU:HB3	1:G:1585:LYS:HD2	1.97	0.42
1:G:1449:LYS:C	1:G:1451:GLN:N	2.71	0.42
1:G:1547:LYS:O	1:G:1547:LYS:HG2	2.19	0.42
2:H:262:GLU:O	2:H:265:SER:HB3	2.20	0.42
2:H:335:PRO:HA	2:H:420:PHE:HE2	1.83	0.42
2:H:895:UNK:CB	2:H:898:UNK:CB	2.98	0.42
2:H:935:UNK:O	2:H:936:UNK:CB	2.68	0.42
2:H:946:UNK:C	2:H:948:UNK:N	2.83	0.42
2:H:1089:UNK:C	2:H:1136:UNK:N	2.83	0.42
2:H:1147:UNK:O	2:H:1148:UNK:CB	2.67	0.42
2:H:1258:UNK:C	2:H:1260:UNK:N	2.82	0.42
2:H:1484:UNK:O	2:H:1485:UNK:CB	2.67	0.42
2:H:1814:ALA:O	2:H:1815:LEU:C	2.57	0.42
2:H:1867:SER:CA	2:H:1870:ALA:HB3	2.48	0.42
2:H:1938:GLY:O	2:H:1939:HIS:HB2	2.20	0.42
2:H:2002:UNK:O	2:H:2005:UNK:CB	2.67	0.42
2:H:2040:UNK:O	2:H:2041:UNK:C	2.68	0.42
1:A:624:UNK:O	1:A:625:UNK:C	2.66	0.42
1:A:884:ILE:H	1:A:884:ILE:HG13	1.62	0.42
1:A:940:THR:HA	1:A:943:LEU:HD12	2.01	0.42
1:A:1028:GLY:CA	1:A:1591:TRP:HZ2	2.32	0.42
1:A:1030:TRP:N	1:A:1030:TRP:CD1	2.88	0.42
1:A:1031:GLY:H	1:A:1035:THR:HG21	1.85	0.42
1:A:1108:PRO:O	1:A:1109:GLU:CB	2.67	0.42
1:A:1127:VAL:H	1:A:1179:LEU:HA	1.84	0.42
1:A:1179:LEU:CD2	1:A:1179:LEU:N	2.83	0.42
1:A:1189:ILE:CG2	1:A:1377:MET:CB	2.75	0.42
1:A:1197:THR:CB	1:A:1200:ILE:HG22	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1207:GLN:NE2	1:A:1277:GLU:OE1	2.52	0.42
1:A:1222:ALA:O	1:A:1225:ALA:CB	2.67	0.42
1:A:1367:ARG:O	1:A:1370:THR:OG1	2.38	0.42
1:A:1423:LYS:CA	1:A:1552:ASN:HD21	2.31	0.42
1:A:1470:LEU:O	1:A:1470:LEU:HD23	2.20	0.42
1:A:1519:ILE:HD13	1:A:1521:PRO:HD2	1.97	0.42
1:A:1733:PHE:HB2	1:A:1734:ASN:H	1.68	0.42
2:B:267:LEU:HD12	2:B:269:GLY:H	1.84	0.42
2:B:345:THR:C	2:B:346:GLN:O	2.57	0.42
2:B:729:UNK:O	2:B:731:UNK:N	2.52	0.42
2:B:1012:UNK:O	2:B:1015:UNK:CB	2.67	0.42
2:B:1719:ILE:H	2:B:1719:ILE:HG13	1.62	0.42
2:B:1874:VAL:HG22	2:B:1928:GLN:OE1	2.19	0.42
1:D:670:UNK:C	1:D:671:VAL:HG23	2.48	0.42
1:D:769:ILE:HA	1:D:823:ILE:HG13	2.02	0.42
1:D:826:MET:HG3	1:D:867:ALA:N	2.34	0.42
1:D:1089:VAL:HG23	1:D:1091:ALA:HB3	2.02	0.42
1:D:1160:THR:HB	1:D:1166:LYS:CE	2.43	0.42
1:D:1205:ILE:HG22	1:D:1213:LEU:HD11	2.00	0.42
1:D:1295:SER:OG	1:D:1706:TYR:OH	2.35	0.42
1:D:1342:GLU:C	1:D:1343:PHE:O	2.54	0.42
1:D:1417:SER:C	1:D:1418:VAL:CG2	2.88	0.42
1:D:1536:LEU:HD12	1:D:1536:LEU:N	2.25	0.42
1:D:1565:GLY:O	1:D:1566:ARG:O	2.37	0.42
1:D:1600:LEU:HB3	1:D:1601:ASN:H	1.66	0.42
1:D:1700:SER:HB3	1:D:1702:GLU:OE2	2.19	0.42
2:E:60:LEU:O	2:E:64:PHE:HB3	2.20	0.42
2:E:439:ILE:HG13	2:E:440:ASN:N	2.32	0.42
2:E:540:ASP:HB2	2:E:544:LYS:NZ	2.34	0.42
2:E:1689:ASP:N	2:E:1689:ASP:OD1	2.52	0.42
2:E:1822:MET:HE1	2:E:1830:VAL:CG1	2.49	0.42
2:E:1825:GLU:H	2:E:1825:GLU:HG2	1.55	0.42
2:E:1909:THR:HG21	2:E:1927:LEU:HD11	2.02	0.42
1:G:521:UNK:O	1:G:523:UNK:N	2.52	0.42
1:G:769:ILE:HA	1:G:823:ILE:HG13	2.01	0.42
1:G:901:MET:HE3	1:G:901:MET:C	2.40	0.42
1:G:1029:PRO:HA	1:G:1193:TRP:NE1	2.35	0.42
1:G:1089:VAL:HG23	1:G:1091:ALA:HB3	2.01	0.42
1:G:1139:GLU:CG	1:G:1140:THR:H	2.32	0.42
1:G:1156:GLU:HG2	1:G:1170:GLY:N	2.34	0.42
1:G:1247:SER:O	1:G:1301:PRO:HD3	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1461:ASP:O	1:G:1462:TRP:C	2.55	0.42
1:G:1736:LYS:HD3	1:G:1736:LYS:HA	1.86	0.42
2:H:209:PHE:N	2:H:209:PHE:CD1	2.88	0.42
2:H:242:GLY:O	2:H:243:VAL:C	2.57	0.42
2:H:347:GLU:O	2:H:350:GLN:HB3	2.20	0.42
2:H:439:ILE:HG13	2:H:440:ASN:N	2.34	0.42
2:H:444:VAL:C	2:H:446:ASN:N	2.68	0.42
2:H:674:UNK:O	2:H:675:UNK:C	2.67	0.42
2:H:911:UNK:O	2:H:912:UNK:CB	2.67	0.42
2:H:1173:UNK:CB	2:H:1180:UNK:CA	2.97	0.42
2:H:1519:UNK:O	2:H:1522:UNK:N	2.53	0.42
2:H:1689:ASP:HA	2:H:1692:ASN:HD22	1.84	0.42
2:H:1718:THR:HG23	2:H:1765:ARG:CB	2.49	0.42
2:H:1875:VAL:HG22	2:H:1880:LYS:O	2.20	0.42
2:H:1928:GLN:C	2:H:1930:SER:H	2.22	0.42
1:A:670:UNK:C	1:A:671:VAL:HG23	2.49	0.42
1:A:873:ARG:CG	1:A:874:GLY:N	2.81	0.42
1:A:1160:THR:CB	1:A:1166:LYS:HE3	2.40	0.42
1:A:1282:THR:HA	1:A:1285:ALA:HB3	2.01	0.42
1:A:1377:MET:O	1:A:1378:GLU:C	2.58	0.42
1:A:1394:LEU:HA	1:A:1673:TYR:CE1	2.54	0.42
1:A:1589:GLY:O	1:A:1592:MET:N	2.53	0.42
2:B:71:LEU:HD12	2:B:76:LYS:HZ3	1.84	0.42
2:B:160:PHE:O	2:B:273:HIS:N	2.51	0.42
2:B:333:GLY:O	2:B:335:PRO:N	2.53	0.42
2:B:335:PRO:O	2:B:336:SER:O	2.37	0.42
2:B:347:GLU:O	2:B:350:GLN:HB3	2.19	0.42
2:B:444:VAL:C	2:B:446:ASN:N	2.70	0.42
2:B:461:ASP:HB2	2:B:464:ASP:O	2.20	0.42
2:B:799:UNK:O	2:B:802:UNK:N	2.53	0.42
2:B:1705:SER:OG	2:B:1708:ASP:CB	2.68	0.42
2:B:1724:GLU:O	2:B:1729:ILE:CB	2.66	0.42
2:B:1830:VAL:CG1	2:B:1831:VAL:N	2.80	0.42
2:B:2028:UNK:O	2:B:2029:UNK:O	2.37	0.42
1:D:491:UNK:C	1:D:493:UNK:N	2.82	0.42
1:D:693:LEU:HD13	1:D:703:VAL:HG11	2.02	0.42
1:D:797:THR:O	1:D:800:LEU:CB	2.66	0.42
1:D:904:ASN:O	1:D:907:GLY:N	2.51	0.42
1:D:1083:PRO:CG	1:D:1084:VAL:H	2.29	0.42
1:D:1094:GLU:C	1:D:1095:THR:O	2.57	0.42
1:D:1108:PRO:CB	1:D:1362:PRO:HB2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1197:THR:CB	1:D:1200:ILE:HG22	2.49	0.42
1:D:1352:THR:C	1:D:1353:LEU:O	2.58	0.42
1:D:1367:ARG:O	1:D:1370:THR:OG1	2.37	0.42
1:D:1371:THR:C	1:D:1373:ARG:N	2.73	0.42
1:D:1462:TRP:CE3	1:D:1463:VAL:N	2.88	0.42
1:D:1522:LEU:HD12	1:D:1522:LEU:N	2.35	0.42
1:D:1583:HIS:HD2	1:D:1583:HIS:N	1.99	0.42
1:D:1615:ASP:OD1	1:D:1617:ILE:HG12	2.19	0.42
2:E:41:LEU:HB3	2:E:46:GLU:OE2	2.19	0.42
2:E:239:PRO:O	2:E:243:VAL:HG23	2.20	0.42
2:E:355:LYS:O	2:E:358:SER:HB2	2.20	0.42
2:E:882:UNK:O	2:E:884:UNK:N	2.53	0.42
2:E:1804:PHE:CD1	2:E:1804:PHE:N	2.87	0.42
2:E:1995:UNK:O	2:E:1996:UNK:O	2.37	0.42
2:E:2036:UNK:O	2:E:2039:UNK:N	2.53	0.42
1:G:398:UNK:O	1:G:401:UNK:N	2.52	0.42
1:G:717:TYR:CD2	1:G:718:TYR:CD1	3.06	0.42
1:G:1012:LEU:HD13	1:G:1664:ALA:HB2	2.02	0.42
1:G:1039:MET:HA	1:G:1039:MET:CE	2.46	0.42
1:G:1064:ASN:CG	1:G:1069:GLY:HA3	2.40	0.42
1:G:1118:LYS:HZ1	1:G:1337:GLU:HG3	1.82	0.42
1:G:1138:LYS:HG2	1:G:1139:GLU:H	1.84	0.42
1:G:1247:SER:C	1:G:1248:GLY:O	2.58	0.42
1:G:1260:MET:HB3	1:G:1261:PHE:HD2	1.84	0.42
1:G:1700:SER:CA	1:G:1701:LYS:HE3	2.49	0.42
1:G:1705:PRO:HB2	1:G:1731:LEU:HD12	2.01	0.42
1:G:1719:LEU:CB	1:G:1737:ASN:OD1	2.68	0.42
2:H:37:PHE:O	2:H:41:LEU:HD11	2.20	0.42
2:H:95:TYR:O	2:H:104:LEU:HD13	2.20	0.42
2:H:267:LEU:HG	2:H:457:ILE:HD13	2.01	0.42
2:H:427:PHE:O	2:H:428:HIS:C	2.57	0.42
2:H:591:UNK:O	2:H:592:UNK:CB	2.66	0.42
2:H:649:UNK:O	2:H:650:UNK:C	2.67	0.42
2:H:760:UNK:O	2:H:761:UNK:C	2.68	0.42
2:H:998:UNK:O	2:H:999:UNK:C	2.67	0.42
2:H:1455:UNK:O	2:H:1458:UNK:N	2.52	0.42
2:H:1594:UNK:C	2:H:1596:UNK:N	2.83	0.42
2:H:1632:UNK:O	2:H:1633:UNK:CB	2.67	0.42
2:H:1696:ASN:C	2:H:1698:PHE:N	2.72	0.42
2:H:1737:ILE:HD12	2:H:1755:ILE:HG21	2.01	0.42
1:A:680:ILE:CD1	1:A:705:VAL:HA	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:684:GLY:O	1:A:690:ALA:HB2	2.20	0.42
1:A:742:LYS:HA	1:A:745:VAL:HB	2.01	0.42
1:A:784:ILE:O	1:A:785:ASP:O	2.38	0.42
1:A:792:HIS:ND1	1:A:796:LEU:CD2	2.83	0.42
1:A:890:LYS:C	1:A:892:GLY:N	2.71	0.42
1:A:1104:ARG:HA	1:A:1104:ARG:CZ	2.49	0.42
1:A:1198:TYR:HD2	1:A:1217:VAL:HG22	1.84	0.42
1:A:1248:GLY:O	1:A:1249:SER:HB3	2.20	0.42
1:A:1394:LEU:HD23	1:A:1673:TYR:CZ	2.55	0.42
1:A:1396:MET:CA	1:A:1676:LYS:HD3	2.21	0.42
1:A:1405:ALA:CB	1:A:1654:ILE:O	2.62	0.42
1:A:1451:GLN:CG	1:A:1452:LEU:N	2.78	0.42
1:A:1454:THR:CG2	1:A:1455:ARG:N	2.59	0.42
1:A:1552:ASN:OD1	1:A:1552:ASN:O	2.37	0.42
2:B:75:SER:C	2:B:77:VAL:N	2.68	0.42
2:B:311:TYR:O	2:B:315:PRO:HB3	2.20	0.42
2:B:649:UNK:O	2:B:651:UNK:N	2.53	0.42
2:B:653:UNK:O	2:B:655:UNK:N	2.52	0.42
2:B:796:UNK:O	2:B:797:UNK:O	2.37	0.42
2:B:1502:UNK:O	2:B:1503:UNK:C	2.67	0.42
2:B:1830:VAL:HA	2:B:1833:TYR:HB2	2.01	0.42
2:B:1857:ILE:HG23	2:B:1949:UNK:CB	2.50	0.42
2:B:1904:LEU:O	2:B:1908:ASP:HB2	2.20	0.42
1:D:565:UNK:O	1:D:569:UNK:N	2.53	0.42
1:D:622:UNK:O	1:D:623:UNK:C	2.67	0.42
1:D:625:UNK:O	1:D:628:UNK:N	2.53	0.42
1:D:749:ILE:HD12	1:D:806:VAL:CG2	2.46	0.42
1:D:776:GLU:HB3	1:D:779:ILE:HD11	2.02	0.42
1:D:843:LYS:O	1:D:844:LEU:C	2.58	0.42
1:D:1067:LEU:HA	1:D:1074:GLY:O	2.19	0.42
1:D:1260:MET:HB3	1:D:1261:PHE:HD2	1.83	0.42
1:D:1294:SER:C	1:D:1296:GLY:N	2.71	0.42
1:D:1431:GLU:HG2	1:D:1522:LEU:HD13	2.01	0.42
1:D:1502:ARG:O	1:D:1504:ALA:N	2.52	0.42
1:D:1547:LYS:O	1:D:1547:LYS:HG2	2.19	0.42
1:D:1625:LEU:HD11	1:D:1626:TYR:CD1	2.54	0.42
1:D:1706:TYR:HB2	1:D:1707:THR:H	1.65	0.42
2:E:52:ASP:HB2	2:E:113:ASP:OD1	2.20	0.42
2:E:209:PHE:N	2:E:209:PHE:CD1	2.87	0.42
2:E:296:VAL:O	2:E:297:ARG:C	2.58	0.42
2:E:928:UNK:O	2:E:931:UNK:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1146:UNK:O	2:E:1147:UNK:C	2.67	0.42
2:E:1390:UNK:HA	2:E:1408:UNK:CB	2.50	0.42
2:E:1867:SER:O	2:E:1868:GLN:C	2.58	0.42
1:G:797:THR:O	1:G:798:ASN:C	2.58	0.42
1:G:860:ASN:HB2	1:G:861:GLN:NE2	2.34	0.42
1:G:1103:ILE:HB	1:G:1104:ARG:H	1.55	0.42
1:G:1189:ILE:CB	1:G:1190:PRO:HD3	2.48	0.42
1:G:1208:VAL:HB	1:G:1212:THR:CB	2.50	0.42
1:G:1232:TYR:HE1	1:G:1705:PRO:CD	2.28	0.42
1:G:1329:VAL:HG11	1:G:1385:GLN:HB2	2.02	0.42
1:G:1546:THR:C	1:G:1548:ALA:H	2.21	0.42
1:G:1688:PHE:C	1:G:1690:ASN:N	2.72	0.42
2:H:433:VAL:HA	2:H:436:SER:HB3	2.01	0.42
2:H:540:ASP:HB2	2:H:544:LYS:NZ	2.34	0.42
2:H:599:UNK:HA	2:H:602:UNK:CB	2.50	0.42
2:H:2028:UNK:O	2:H:2029:UNK:O	2.37	0.42
3:I:2:UNK:C	3:I:4:UNK:N	2.82	0.42
1:A:563:UNK:O	1:A:564:UNK:C	2.68	0.42
1:A:622:UNK:C	1:A:624:UNK:N	2.80	0.42
1:A:625:UNK:O	1:A:628:UNK:CB	2.68	0.42
1:A:792:HIS:ND1	1:A:796:LEU:HD21	2.34	0.42
1:A:927:ASN:HD21	1:A:931:GLN:N	2.13	0.42
1:A:1038:GLU:OE2	1:A:1049:GLY:HA3	2.20	0.42
1:A:1211:ILE:O	1:A:1212:THR:C	2.56	0.42
1:A:1398:VAL:HG22	1:A:1399:PRO:N	2.34	0.42
1:A:1408:ALA:CB	1:A:1652:GLN:N	2.82	0.42
1:A:1504:ALA:C	1:A:1506:GLN:N	2.72	0.42
1:A:1700:SER:CA	1:A:1701:LYS:HE3	2.50	0.42
1:A:1700:SER:HB3	1:A:1702:GLU:OE2	2.19	0.42
2:B:98:GLY:C	2:B:100:ASP:N	2.72	0.42
2:B:149:VAL:O	2:B:266:TYR:CD2	2.73	0.42
2:B:164:GLY:O	2:B:166:THR:N	2.49	0.42
2:B:354:ASN:O	2:B:356:THR:N	2.53	0.42
2:B:488:VAL:O	2:B:490:TRP:N	2.53	0.42
2:B:525:VAL:HG22	2:B:554:UNK:N	2.35	0.42
2:B:1582:UNK:O	2:B:1583:UNK:CB	2.68	0.42
2:B:1825:GLU:HB2	2:B:1826:SER:H	1.52	0.42
1:D:177:UNK:O	1:D:178:UNK:C	2.68	0.42
1:D:398:UNK:O	1:D:401:UNK:N	2.52	0.42
1:D:624:UNK:O	1:D:625:UNK:C	2.67	0.42
1:D:779:ILE:HD12	1:D:837:GLY:HA3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:997:PRO:HG2	1:D:1002:LYS:CE	2.45	0.42
1:D:1002:LYS:CE	1:D:1670:TYR:OH	2.68	0.42
1:D:1030:TRP:CZ2	1:D:1580:LEU:CD1	3.02	0.42
1:D:1039:MET:SD	1:D:1043:GLY:O	2.78	0.42
1:D:1161:GLY:O	1:D:1162:GLU:O	2.38	0.42
1:D:1328:ILE:O	1:D:1385:GLN:O	2.38	0.42
1:D:1379:ALA:N	1:D:1583:HIS:HB3	2.18	0.42
1:D:1585:LYS:HB3	1:D:1585:LYS:HE3	1.79	0.42
1:D:1614:VAL:HG12	1:D:1618:LEU:HD12	2.02	0.42
2:E:22:VAL:N	2:E:23:PRO:HD2	2.35	0.42
2:E:71:LEU:HD12	2:E:76:LYS:HZ3	1.84	0.42
2:E:676:UNK:N	2:E:680:UNK:CB	2.83	0.42
2:E:1550:UNK:O	2:E:1552:UNK:N	2.53	0.42
2:E:1559:UNK:HA	2:E:1564:UNK:CB	2.50	0.42
2:E:1587:UNK:O	2:E:1590:UNK:N	2.52	0.42
2:E:1680:LEU:C	2:E:1680:LEU:CD2	2.88	0.42
2:E:1738:PHE:HB2	2:E:1755:ILE:CB	2.50	0.42
1:G:462:UNK:CB	1:G:1632:LYS:NZ	2.82	0.42
1:G:852:ARG:C	1:G:854:HIS:N	2.73	0.42
1:G:927:ASN:HD21	1:G:931:GLN:N	2.13	0.42
1:G:1033:ALA:O	1:G:1034:ARG:C	2.57	0.42
1:G:1188:GLN:N	1:G:1188:GLN:CD	2.73	0.42
1:G:1264:ARG:C	1:G:1266:LYS:H	2.21	0.42
1:G:1288:ASN:ND2	1:G:1292:ILE:O	2.53	0.42
1:G:1376:PHE:N	1:G:1376:PHE:CD1	2.79	0.42
1:G:1393:ALA:HB1	1:G:1398:VAL:HG11	2.00	0.42
1:G:1502:ARG:C	1:G:1504:ALA:N	2.70	0.42
1:G:1639:VAL:HG21	1:G:1655:VAL:HG12	2.01	0.42
2:H:99:ASN:O	2:H:100:ASP:CB	2.68	0.42
2:H:260:PRO:CG	2:H:292:PHE:HB2	2.39	0.42
2:H:375:LYS:HG3	2:H:376:ASN:N	2.30	0.42
2:H:408:PRO:O	2:H:410:SER:N	2.53	0.42
2:H:1013:UNK:C	2:H:1015:UNK:N	2.80	0.42
2:H:1056:UNK:C	2:H:1058:UNK:N	2.77	0.42
2:H:1726:GLY:O	2:H:1728:ARG:N	2.53	0.42
2:H:1830:VAL:CG1	2:H:1831:VAL:N	2.79	0.42
2:H:1874:VAL:CG2	2:H:1928:GLN:HE22	2.30	0.42
1:A:238:UNK:O	1:A:239:UNK:CB	2.68	0.42
1:A:622:UNK:O	1:A:623:UNK:C	2.67	0.42
1:A:678:VAL:HG21	1:A:767:ALA:HB3	2.00	0.42
1:A:692:VAL:HG22	1:A:902:ALA:HB1	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1039:MET:SD	1:A:1043:GLY:O	2.78	0.42
1:A:1074:GLY:O	1:A:1075:TRP:CB	2.68	0.42
1:A:1162:GLU:O	1:A:1163:TYR:CG	2.72	0.42
1:A:1229:THR:O	1:A:1229:THR:HG23	2.20	0.42
1:A:1423:LYS:N	1:A:1425:ILE:HB	2.35	0.42
1:A:1433:HIS:ND1	1:A:1434:SER:O	2.50	0.42
2:B:131:ILE:CD1	2:B:182:VAL:CG1	2.98	0.42
2:B:161:GLY:HA2	2:B:512:LEU:CD1	2.49	0.42
2:B:221:ASN:C	2:B:223:SER:H	2.23	0.42
2:B:232:LEU:HD23	2:B:232:LEU:C	2.40	0.42
2:B:517:HIS:CE1	2:B:538:ASP:OD1	2.72	0.42
2:B:591:UNK:O	2:B:592:UNK:CB	2.68	0.42
2:B:1042:UNK:O	2:B:1044:UNK:N	2.52	0.42
2:B:1924:ILE:O	2:B:1926:GLU:N	2.53	0.42
1:D:684:GLY:CA	1:D:718:TYR:OH	2.67	0.42
1:D:742:LYS:HG3	1:D:743:GLN:H	1.84	0.42
1:D:748:LEU:O	1:D:749:ILE:C	2.58	0.42
1:D:972:SER:O	1:D:973:ALA:CB	2.67	0.42
1:D:1030:TRP:HB3	1:D:1035:THR:HG22	2.01	0.42
1:D:1080:THR:HG1	1:D:1083:PRO:HD2	1.85	0.42
1:D:1241:SER:HB2	1:D:1295:SER:HB2	2.02	0.42
1:D:1283:MET:H	1:D:1283:MET:HE1	1.85	0.42
1:D:1290:LEU:HA	1:D:1701:LYS:CE	2.50	0.42
1:D:1319:ILE:CD1	1:D:1325:ARG:HA	2.48	0.42
1:D:1378:GLU:HB3	1:D:1585:LYS:HD2	2.00	0.42
1:D:1428:THR:O	1:D:1428:THR:HG22	2.20	0.42
1:D:1519:ILE:HG12	1:D:1521:PRO:CD	2.49	0.42
1:D:1575:VAL:O	1:D:1576:PHE:CB	2.67	0.42
1:D:1700:SER:HA	1:D:1701:LYS:HE3	2.02	0.42
1:D:1737:ASN:OD1	1:D:1739:GLN:N	2.53	0.42
1:D:1745:UNK:C	1:D:1747:UNK:N	2.82	0.42
2:E:232:LEU:HD23	2:E:232:LEU:C	2.39	0.42
2:E:674:UNK:O	2:E:675:UNK:C	2.68	0.42
2:E:1584:UNK:O	2:E:1586:UNK:N	2.53	0.42
2:E:1814:ALA:O	2:E:1815:LEU:C	2.58	0.42
2:E:1864:ALA:N	2:E:1866:PHE:HB2	2.35	0.42
2:E:1929:LYS:HE2	2:E:1929:LYS:HA	2.01	0.42
1:G:468:UNK:CB	1:G:523:UNK:CB	2.98	0.42
1:G:534:UNK:HA	1:G:537:UNK:CB	2.49	0.42
1:G:676:LYS:O	1:G:677:TYR:O	2.38	0.42
1:G:742:LYS:HA	1:G:745:VAL:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1067:LEU:CG	1:G:1074:GLY:H	2.32	0.42
1:G:1398:VAL:HG13	1:G:1399:PRO:C	2.41	0.42
1:G:1504:ALA:O	1:G:1506:GLN:N	2.52	0.42
1:G:1665:ILE:O	1:G:1666:THR:CB	2.68	0.42
2:H:23:PRO:HA	2:H:26:SER:HB2	2.00	0.42
2:H:59:GLU:HB3	2:H:125:ASN:ND2	2.34	0.42
2:H:88:LEU:HD21	2:H:130:ARG:HA	2.01	0.42
2:H:169:TYR:O	2:H:172:GLU:N	2.48	0.42
2:H:286:THR:HG21	2:H:292:PHE:CD1	2.44	0.42
2:H:333:GLY:O	2:H:335:PRO:N	2.52	0.42
2:H:393:LEU:HG	2:H:418:ASN:OD1	2.19	0.42
2:H:409:PHE:O	2:H:410:SER:CB	2.66	0.42
2:H:1432:UNK:O	2:H:1433:UNK:CB	2.68	0.42
2:H:1719:ILE:HG22	2:H:1721:PHE:CD1	2.54	0.42
2:H:1799:PRO:O	2:H:1800:ALA:C	2.58	0.42
2:H:2000:UNK:O	2:H:2002:UNK:N	2.53	0.42
1:A:221:UNK:O	1:A:222:UNK:C	2.67	0.41
1:A:455:UNK:O	1:A:459:UNK:N	2.53	0.41
1:A:742:LYS:HG3	1:A:743:GLN:H	1.84	0.41
1:A:1208:VAL:HB	1:A:1212:THR:CB	2.50	0.41
1:A:1215:VAL:HG23	1:A:1216:LEU:N	2.35	0.41
1:A:1376:PHE:O	1:A:1377:MET:CG	2.67	0.41
1:A:1385:GLN:NE2	1:A:1593:MET:CG	2.69	0.41
1:A:1455:ARG:C	1:A:1457:ALA:N	2.73	0.41
1:A:1456:GLU:CA	1:A:1459:ILE:HG13	2.50	0.41
1:A:1501:LEU:HD23	1:A:1501:LEU:C	2.40	0.41
1:A:1557:ILE:HA	1:A:1560:MET:SD	2.60	0.41
1:A:1583:HIS:HD2	1:A:1583:HIS:N	1.98	0.41
1:A:1616:LYS:C	1:A:1618:LEU:N	2.72	0.41
2:B:1:MET:HB3	2:B:2:ASP:H	1.58	0.41
2:B:14:GLY:O	2:B:18:HIS:ND1	2.53	0.41
2:B:22:VAL:H	2:B:23:PRO:HD2	1.85	0.41
2:B:52:ASP:HB2	2:B:113:ASP:OD1	2.18	0.41
2:B:224:ASN:O	2:B:226:PRO:HD3	2.20	0.41
2:B:267:LEU:HD12	2:B:268:LYS:N	2.35	0.41
2:B:463:PHE:CE1	2:B:489:LYS:HD2	2.55	0.41
2:B:541:TYR:O	2:B:543:PHE:CD1	2.74	0.41
2:B:841:UNK:O	2:B:843:UNK:N	2.52	0.41
2:B:1013:UNK:C	2:B:1015:UNK:N	2.80	0.41
2:B:1689:ASP:HA	2:B:1692:ASN:HD22	1.84	0.41
2:B:1694:ALA:O	2:B:1698:PHE:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1729:ILE:CG2	2:B:1730:ARG:N	2.80	0.41
2:B:1931:LEU:HA	2:B:1934:GLU:CB	2.50	0.41
1:D:495:UNK:O	1:D:496:UNK:C	2.68	0.41
1:D:1003:GLN:HG3	1:D:1666:THR:OG1	2.20	0.41
1:D:1201:SER:HB3	1:D:1204:ILE:HG12	1.96	0.41
1:D:1216:LEU:HD11	1:D:1290:LEU:HD22	2.02	0.41
1:D:1237:TYR:O	1:D:1238:VAL:CG2	2.68	0.41
1:D:1240:VAL:HG13	1:D:1242:GLU:H	1.85	0.41
1:D:1245:ASN:O	1:D:1246:CYS:O	2.38	0.41
1:D:1273:ASP:O	1:D:1273:ASP:CG	2.58	0.41
1:D:1665:ILE:HD12	1:D:1669:ARG:CB	2.50	0.41
2:E:294:VAL:O	2:E:297:ARG:HB3	2.20	0.41
2:E:1049:UNK:O	2:E:1051:UNK:N	2.53	0.41
2:E:1089:UNK:C	2:E:1136:UNK:N	2.83	0.41
2:E:1692:ASN:O	2:E:1696:ASN:CB	2.67	0.41
1:G:434:UNK:O	1:G:435:UNK:CB	2.68	0.41
1:G:655:UNK:O	1:G:656:UNK:C	2.68	0.41
1:G:792:HIS:ND1	1:G:796:LEU:CD2	2.83	0.41
1:G:1060:ILE:HG22	1:G:1079:LYS:CB	2.34	0.41
1:G:1118:LYS:HZ3	1:G:1337:GLU:HG3	1.80	0.41
1:G:1144:PHE:H	1:G:1144:PHE:HD1	1.67	0.41
1:G:1286:TRP:HA	1:G:1289:MET:HG3	2.01	0.41
1:G:1478:PRO:HB2	1:G:1479:SER:H	1.63	0.41
1:G:1667:GLU:O	1:G:1669:ARG:N	2.53	0.41
2:H:404:GLN:C	2:H:406:ARG:N	2.72	0.41
2:H:499:THR:O	2:H:500:HIS:ND1	2.52	0.41
2:H:1716:ASN:C	2:H:1718:THR:N	2.72	0.41
2:H:1718:THR:CB	2:H:1770:LEU:HD13	2.49	0.41
2:H:1753:LYS:C	2:H:1755:ILE:N	2.73	0.41
2:H:1790:GLU:O	2:H:1791:ASP:C	2.57	0.41
2:H:1931:LEU:HA	2:H:1934:GLU:CB	2.50	0.41
1:A:786:SER:O	1:A:788:SER:N	2.54	0.41
1:A:841:GLU:H	1:A:841:GLU:CD	2.23	0.41
1:A:850:PHE:CE2	1:A:864:VAL:CG1	3.03	0.41
1:A:999:LYS:C	1:A:1001:VAL:N	2.74	0.41
1:A:1020:VAL:HG22	1:A:1403:ILE:CA	2.46	0.41
1:A:1079:LYS:C	1:A:1080:THR:HG1	2.23	0.41
1:A:1112:ASN:C	1:A:1114:TYR:N	2.57	0.41
1:A:1179:LEU:N	1:A:1179:LEU:HD23	2.35	0.41
1:A:1230:ASP:HA	1:A:1231:PRO:HD2	1.76	0.41
1:A:1333:ASP:HB2	1:A:1586:GLY:HA3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1368:PRO:O	1:A:1369:ALA:O	2.38	0.41
1:A:1438:TYR:CD1	1:A:1439:ALA:N	2.88	0.41
1:A:1447:TYR:O	1:A:1449:LYS:N	2.53	0.41
1:A:1528:THR:O	1:A:1529:TYR:CD1	2.73	0.41
1:A:1704:ALA:CB	1:A:1705:PRO:CD	2.93	0.41
2:B:296:VAL:O	2:B:297:ARG:C	2.58	0.41
2:B:515:LEU:O	2:B:518:ARG:HB2	2.19	0.41
2:B:1280:UNK:O	2:B:1282:UNK:N	2.53	0.41
2:B:1818:LEU:O	2:B:1819:ALA:O	2.37	0.41
2:B:1867:SER:O	2:B:1868:GLN:C	2.59	0.41
2:B:1875:VAL:HG22	2:B:1880:LYS:O	2.19	0.41
2:B:1903:ASP:O	2:B:1904:LEU:C	2.58	0.41
2:B:1905:ARG:HA	2:B:1908:ASP:HB3	2.02	0.41
2:B:1929:LYS:HE2	2:B:1929:LYS:N	2.34	0.41
1:D:574:UNK:O	1:D:575:UNK:C	2.66	0.41
1:D:586:UNK:O	1:D:588:UNK:N	2.53	0.41
1:D:911:PRO:O	1:D:913:VAL:N	2.52	0.41
1:D:1062:TYR:HB2	1:D:1077:ASP:OD1	2.20	0.41
1:D:1089:VAL:O	1:D:1090:LYS:C	2.58	0.41
1:D:1139:GLU:OE2	1:D:1166:LYS:O	2.36	0.41
1:D:1425:ILE:O	1:D:1426:LEU:CG	2.68	0.41
1:D:1572:VAL:O	1:D:1572:VAL:HG23	2.20	0.41
1:D:1658:PRO:C	1:D:1660:TYR:H	2.22	0.41
1:D:1701:LYS:CD	1:D:1701:LYS:N	2.83	0.41
2:E:1:MET:HB3	2:E:2:ASP:H	1.57	0.41
2:E:383:PRO:HG2	2:E:384:GLN:H	1.84	0.41
2:E:474:SER:O	2:E:475:ILE:CB	2.67	0.41
2:E:817:UNK:O	2:E:825:UNK:HA	2.20	0.41
2:E:935:UNK:O	2:E:936:UNK:CB	2.68	0.41
2:E:1502:UNK:O	2:E:1503:UNK:C	2.68	0.41
2:E:1674:GLN:HE21	2:E:1712:ASN:HA	1.85	0.41
3:F:2:UNK:C	3:F:4:UNK:N	2.82	0.41
1:G:691:GLU:O	1:G:694:GLN:HB2	2.20	0.41
1:G:1010:GLU:O	1:G:1011:GLY:C	2.56	0.41
1:G:1028:GLY:C	1:G:1193:TRP:HE1	2.23	0.41
1:G:1036:ARG:O	1:G:1039:MET:N	2.52	0.41
1:G:1073:THR:CG2	1:G:1074:GLY:H	2.33	0.41
1:G:1094:GLU:C	1:G:1095:THR:O	2.57	0.41
1:G:1127:VAL:H	1:G:1179:LEU:HA	1.85	0.41
1:G:1148:HIS:C	1:G:1150:ASP:N	2.60	0.41
1:G:1155:PHE:O	1:G:1156:GLU:CB	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1184:LEU:HD12	1:G:1185:VAL:N	2.35	0.41
1:G:1210:PRO:HB2	1:G:1211:ILE:H	1.53	0.41
1:G:1275:LEU:O	1:G:1275:LEU:HD13	2.19	0.41
1:G:1423:LYS:CA	1:G:1552:ASN:HD21	2.33	0.41
1:G:1462:TRP:C	1:G:1462:TRP:HE3	2.23	0.41
1:G:1618:LEU:O	1:G:1619:GLU:HB2	2.20	0.41
1:G:1641:ILE:HG12	1:G:1642:THR:H	1.84	0.41
1:G:1641:ILE:O	1:G:1642:THR:HB	2.19	0.41
1:G:1646:PHE:O	1:G:1648:GLN:N	2.53	0.41
1:G:1737:ASN:OD1	1:G:1739:GLN:N	2.53	0.41
2:H:239:PRO:O	2:H:243:VAL:HG23	2.20	0.41
2:H:259:THR:HG22	2:H:288:SER:HA	2.00	0.41
2:H:259:THR:C	2:H:261:GLY:N	2.73	0.41
2:H:342:SER:OG	2:H:343:ASN:N	2.53	0.41
2:H:355:LYS:HA	2:H:358:SER:OG	2.20	0.41
2:H:711:UNK:O	2:H:712:UNK:CB	2.68	0.41
2:H:1012:UNK:O	2:H:1013:UNK:O	2.38	0.41
2:H:1698:PHE:O	2:H:1702:TYR:N	2.50	0.41
2:H:1724:GLU:O	2:H:1729:ILE:HA	2.20	0.41
2:H:1738:PHE:C	2:H:1740:THR:H	2.22	0.41
2:H:1806:GLY:HA3	2:H:1811:GLU:CG	2.49	0.41
2:H:1830:VAL:O	2:H:1834:ARG:N	2.49	0.41
1:A:151:UNK:C	1:A:153:UNK:N	2.83	0.41
1:A:503:UNK:C	1:A:505:UNK:N	2.76	0.41
1:A:543:UNK:C	1:A:545:UNK:N	2.82	0.41
1:A:797:THR:O	1:A:800:LEU:CB	2.66	0.41
1:A:990:LEU:HD23	1:A:1685:TYR:CE2	2.55	0.41
1:A:1064:ASN:CG	1:A:1069:GLY:HA3	2.39	0.41
1:A:1087:LYS:HB3	1:A:1088:ASP:H	1.48	0.41
1:A:1151:LYS:CG	1:A:1175:ILE:CD1	2.98	0.41
1:A:1237:TYR:O	1:A:1238:VAL:CG2	2.68	0.41
1:A:1319:ILE:CD1	1:A:1325:ARG:HA	2.49	0.41
1:A:1637:ARG:HB3	1:A:1638:ALA:H	1.56	0.41
2:B:59:GLU:HB3	2:B:125:ASN:ND2	2.35	0.41
2:B:82:GLN:O	2:B:85:ASN:N	2.53	0.41
2:B:263:LEU:O	2:B:265:SER:N	2.52	0.41
2:B:334:VAL:HA	2:B:335:PRO:HD2	1.90	0.41
2:B:408:PRO:O	2:B:410:SER:N	2.53	0.41
2:B:905:UNK:C	2:B:907:UNK:N	2.83	0.41
2:B:1011:UNK:O	2:B:1012:UNK:CB	2.68	0.41
2:B:1248:UNK:C	2:B:1250:UNK:N	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1726:GLY:O	2:B:1728:ARG:N	2.53	0.41
2:B:1828:VAL:O	2:B:1829:GLU:C	2.58	0.41
2:B:1869:GLU:C	2:B:1871:LEU:H	2.23	0.41
1:D:673:PHE:HZ	1:D:906:LEU:O	2.03	0.41
1:D:737:PHE:CD1	1:D:748:LEU:CD2	3.03	0.41
1:D:755:THR:CG2	1:D:756:GLU:N	2.82	0.41
1:D:788:SER:O	1:D:791:ALA:HB3	2.19	0.41
1:D:810:LYS:C	1:D:812:ALA:N	2.71	0.41
1:D:927:ASN:HD21	1:D:931:GLN:N	2.15	0.41
1:D:1023:GLY:N	1:D:1386:ILE:HG13	2.34	0.41
1:D:1029:PRO:HA	1:D:1193:TRP:NE1	2.35	0.41
1:D:1416:ARG:O	1:D:1417:SER:HB3	2.21	0.41
1:D:1426:LEU:HD22	1:D:1650:GLY:CA	2.47	0.41
1:D:1544:THR:C	1:D:1546:THR:H	2.23	0.41
1:D:1581:THR:HB	1:D:1582:GLY:H	1.21	0.41
1:D:1706:TYR:C	1:D:1707:THR:HG22	2.40	0.41
2:E:169:TYR:O	2:E:172:GLU:N	2.48	0.41
2:E:195:LEU:HD11	2:E:239:PRO:HB2	2.03	0.41
2:E:432:LEU:HD21	2:E:484:ILE:HG22	2.02	0.41
2:E:620:UNK:O	2:E:623:UNK:N	2.53	0.41
2:E:627:UNK:C	2:E:629:UNK:H	2.32	0.41
2:E:760:UNK:O	2:E:761:UNK:C	2.67	0.41
2:E:1280:UNK:O	2:E:1282:UNK:N	2.53	0.41
2:E:1807:HIS:O	2:E:1808:SER:HB3	2.21	0.41
2:E:1907:LEU:H	2:E:1907:LEU:CD2	2.12	0.41
2:E:2002:UNK:O	2:E:2005:UNK:CB	2.68	0.41
1:G:389:UNK:O	1:G:391:UNK:N	2.53	0.41
1:G:996:LYS:HZ1	1:G:1400:ILE:HG12	1.84	0.41
1:G:1250:GLY:CA	1:G:1333:ASP:OD2	2.68	0.41
1:G:1506:GLN:HA	1:G:1510:ASN:ND2	2.20	0.41
1:G:1554:SER:O	1:G:1555:ALA:HB2	2.19	0.41
1:G:1575:VAL:O	1:G:1576:PHE:CB	2.68	0.41
1:G:1705:PRO:HG2	1:G:1706:TYR:CE1	2.55	0.41
2:H:37:PHE:HD2	2:H:37:PHE:HA	1.67	0.41
2:H:63:LYS:O	2:H:64:PHE:C	2.59	0.41
2:H:478:ARG:O	2:H:480:VAL:N	2.50	0.41
2:H:515:LEU:O	2:H:518:ARG:HB2	2.20	0.41
2:H:525:VAL:HG22	2:H:554:UNK:N	2.36	0.41
2:H:670:UNK:CA	2:H:694:UNK:CB	2.97	0.41
2:H:775:UNK:C	2:H:776:UNK:O	2.68	0.41
2:H:841:UNK:O	2:H:843:UNK:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1047:UNK:O	2:H:1048:UNK:C	2.68	0.41
2:H:1249:UNK:O	2:H:1251:UNK:N	2.54	0.41
2:H:1360:UNK:O	2:H:1362:UNK:N	2.53	0.41
2:H:1477:UNK:C	2:H:1484:UNK:CB	2.98	0.41
2:H:1555:UNK:O	2:H:1557:UNK:N	2.54	0.41
2:H:1628:UNK:O	2:H:1629:UNK:C	2.68	0.41
2:H:1695:ASP:OD2	2:H:1705:SER:HB2	2.20	0.41
2:H:1698:PHE:CE2	2:H:1704:PHE:CZ	3.09	0.41
1:A:534:UNK:C	1:A:536:UNK:N	2.81	0.41
1:A:580:UNK:C	1:A:582:UNK:N	2.83	0.41
1:A:1369:ALA:N	1:A:1550:ASP:OD2	2.54	0.41
1:A:1667:GLU:O	1:A:1669:ARG:N	2.53	0.41
2:B:339:LEU:HB2	2:B:420:PHE:HD1	1.85	0.41
2:B:455:ILE:O	2:B:456:GLN:O	2.38	0.41
2:B:620:UNK:O	2:B:623:UNK:N	2.53	0.41
2:B:1258:UNK:C	2:B:1260:UNK:N	2.82	0.41
2:B:1672:GLN:HB2	2:B:1676:MET:HE3	2.00	0.41
2:B:1702:TYR:O	2:B:1703:GLY:C	2.58	0.41
2:B:1707:LEU:O	2:B:1710:VAL:N	2.54	0.41
2:B:1742:VAL:CG2	2:B:1751:ILE:HD11	2.51	0.41
2:B:1771:LEU:HD12	2:B:1771:LEU:HA	1.85	0.41
2:B:2049:UNK:O	2:B:2051:UNK:N	2.53	0.41
1:D:209:UNK:O	1:D:213:UNK:CB	2.68	0.41
1:D:543:UNK:C	1:D:545:UNK:N	2.83	0.41
1:D:684:GLY:O	1:D:690:ALA:HB2	2.20	0.41
1:D:853:TRP:CE2	1:D:859:ALA:HB1	2.55	0.41
1:D:901:MET:HE3	1:D:905:LEU:CD2	2.49	0.41
1:D:1015:LEU:HD23	1:D:1018:VAL:CG1	2.47	0.41
1:D:1079:LYS:HE3	1:D:1097:ILE:HG12	2.03	0.41
1:D:1118:LYS:O	1:D:1118:LYS:CG	2.66	0.41
1:D:1367:ARG:HB2	1:D:1370:THR:OG1	2.20	0.41
1:D:1403:ILE:CG2	1:D:1657:HIS:O	2.69	0.41
1:D:1497:ALA:O	1:D:1499:SER:N	2.53	0.41
1:D:1581:THR:O	1:D:1582:GLY:C	2.58	0.41
2:E:421:LEU:HB3	2:E:422:PRO:CD	2.49	0.41
2:E:474:SER:C	2:E:476:SER:H	2.24	0.41
2:E:484:ILE:O	2:E:485:ARG:HB2	2.20	0.41
2:E:490:TRP:CD1	2:E:494:THR:HG23	2.56	0.41
2:E:525:VAL:HG22	2:E:554:UNK:N	2.36	0.41
2:E:544:LYS:HZ1	2:E:552:UNK:CB	2.33	0.41
2:E:711:UNK:O	2:E:712:UNK:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:742:UNK:O	2:E:743:UNK:C	2.68	0.41
2:E:1047:UNK:O	2:E:1048:UNK:C	2.67	0.41
2:E:1147:UNK:O	2:E:1148:UNK:CB	2.69	0.41
2:E:1692:ASN:O	2:E:1696:ASN:N	2.43	0.41
2:E:1718:THR:HG23	2:E:1765:ARG:CB	2.51	0.41
2:E:1726:GLY:O	2:E:1728:ARG:N	2.54	0.41
2:E:1830:VAL:HA	2:E:1833:TYR:HB2	2.03	0.41
2:E:1928:GLN:C	2:E:1930:SER:H	2.24	0.41
1:G:610:UNK:O	1:G:611:UNK:O	2.39	0.41
1:G:884:ILE:H	1:G:884:ILE:HG13	1.59	0.41
1:G:1010:GLU:OE1	1:G:1013:LEU:HD11	2.19	0.41
1:G:1141:ALA:O	1:G:1142:GLU:HB2	2.21	0.41
1:G:1265:PHE:O	1:G:1265:PHE:CG	2.73	0.41
1:G:1366:SER:O	1:G:1579:PHE:CD1	2.74	0.41
1:G:1376:PHE:CG	1:G:1377:MET:N	2.87	0.41
1:G:1522:LEU:CD1	1:G:1522:LEU:H	2.34	0.41
1:G:1572:VAL:HG23	1:G:1572:VAL:O	2.20	0.41
2:H:9:LEU:CD1	2:H:58:ALA:HB2	2.50	0.41
2:H:56:THR:CA	2:H:59:GLU:HG2	2.50	0.41
2:H:135:ARG:O	2:H:136:PRO:C	2.59	0.41
2:H:195:LEU:HD11	2:H:239:PRO:HB2	2.03	0.41
2:H:490:TRP:CD1	2:H:494:THR:HG23	2.55	0.41
2:H:673:UNK:O	2:H:674:UNK:C	2.68	0.41
2:H:772:UNK:CB	2:H:777:UNK:O	2.68	0.41
2:H:819:UNK:O	2:H:820:UNK:C	2.69	0.41
2:H:1638:UNK:O	2:H:1639:UNK:C	2.68	0.41
2:H:1705:SER:OG	2:H:1708:ASP:CB	2.67	0.41
2:H:1715:VAL:HG23	2:H:1770:LEU:CB	2.46	0.41
2:H:1755:ILE:HG12	2:H:1755:ILE:H	1.54	0.41
1:A:625:UNK:HA	1:A:628:UNK:CB	2.50	0.41
1:A:1047:LEU:O	1:A:1049:GLY:N	2.54	0.41
1:A:1118:LYS:HG3	1:A:1120:GLU:CG	2.50	0.41
1:A:1176:PRO:C	1:A:1177:LYS:HG3	2.40	0.41
1:A:1189:ILE:CB	1:A:1190:PRO:CD	2.98	0.41
1:A:1202:ASP:O	1:A:1203:ASP:OD1	2.38	0.41
1:A:1248:GLY:O	1:A:1301:PRO:HD2	2.21	0.41
1:A:1290:LEU:HA	1:A:1701:LYS:CE	2.50	0.41
1:A:1519:ILE:CG1	1:A:1523:ARG:HB3	2.50	0.41
2:B:25:ALA:HB1	2:B:65:LEU:HD21	2.03	0.41
2:B:41:LEU:HB3	2:B:46:GLU:OE2	2.20	0.41
2:B:274:SER:HB3	2:B:428:HIS:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:404:GLN:O	2:B:405:SER:C	2.59	0.41
2:B:473:GLY:C	2:B:475:ILE:H	2.23	0.41
2:B:544:LYS:NZ	2:B:552:UNK:CB	2.83	0.41
2:B:567:UNK:CA	2:B:572:UNK:O	2.68	0.41
2:B:737:UNK:O	2:B:738:UNK:C	2.67	0.41
2:B:744:UNK:O	2:B:746:UNK:N	2.53	0.41
2:B:838:UNK:CB	2:B:841:UNK:CB	2.98	0.41
2:B:935:UNK:O	2:B:936:UNK:CB	2.68	0.41
2:B:1720:HIS:CB	2:B:1762:TYR:O	2.68	0.41
2:B:1721:PHE:C	2:B:1723:GLY:N	2.70	0.41
1:D:491:UNK:O	1:D:492:UNK:C	2.68	0.41
1:D:541:UNK:C	1:D:543:UNK:N	2.80	0.41
1:D:610:UNK:O	1:D:611:UNK:O	2.37	0.41
1:D:615:UNK:C	1:D:617:UNK:N	2.82	0.41
1:D:706:THR:OG1	1:D:737:PHE:HB3	2.21	0.41
1:D:1172:THR:O	1:D:1173:LEU:HB2	2.20	0.41
1:D:1232:TYR:C	1:D:1234:MET:N	2.68	0.41
1:D:1264:ARG:O	1:D:1266:LYS:N	2.54	0.41
1:D:1426:LEU:HD12	1:D:1427:THR:OG1	2.20	0.41
1:D:1539:ALA:O	1:D:1541:PHE:HD1	2.04	0.41
1:D:1547:LYS:HE3	1:D:1615:ASP:CB	2.49	0.41
1:D:1642:THR:CA	1:D:1652:GLN:OE1	2.68	0.41
1:D:1811:UNK:C	1:D:1813:UNK:N	2.81	0.41
1:D:1860:UNK:C	1:D:1862:UNK:N	2.82	0.41
2:E:56:THR:O	2:E:59:GLU:CB	2.69	0.41
2:E:63:LYS:HB2	2:E:125:ASN:ND2	2.35	0.41
2:E:305:PHE:CE2	2:E:442:ASP:HB3	2.55	0.41
2:E:347:GLU:O	2:E:350:GLN:HB3	2.20	0.41
2:E:473:GLY:O	2:E:474:SER:HB2	2.21	0.41
2:E:1258:UNK:C	2:E:1260:UNK:N	2.84	0.41
2:E:1522:UNK:C	2:E:1524:UNK:N	2.83	0.41
2:E:1715:VAL:CG1	2:E:1716:ASN:H	2.27	0.41
2:E:1726:GLY:O	2:E:1727:LYS:C	2.59	0.41
2:E:1737:ILE:CD1	2:E:1755:ILE:HD12	2.51	0.41
1:G:1301:PRO:HB2	1:G:1310:GLU:HG2	2.02	0.41
1:G:1367:ARG:HB2	1:G:1370:THR:OG1	2.20	0.41
1:G:1408:ALA:CB	1:G:1652:GLN:N	2.83	0.41
1:G:1408:ALA:CA	1:G:1652:GLN:O	2.68	0.41
1:G:1431:GLU:HG2	1:G:1522:LEU:HD13	2.02	0.41
1:G:1438:TYR:CD1	1:G:1439:ALA:N	2.86	0.41
1:G:1455:ARG:C	1:G:1457:ALA:N	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1641:ILE:HG12	1:G:1652:GLN:NE2	2.34	0.41
2:H:296:VAL:O	2:H:297:ARG:C	2.58	0.41
2:H:627:UNK:C	2:H:629:UNK:H	2.34	0.41
2:H:1689:ASP:N	2:H:1689:ASP:OD1	2.53	0.41
2:H:1720:HIS:CB	2:H:1763:THR:HG1	2.34	0.41
2:H:1812:TYR:O	2:H:1816:ALA:N	2.50	0.41
2:H:1825:GLU:H	2:H:1825:GLU:HG2	1.57	0.41
2:H:1864:ALA:N	2:H:1866:PHE:HB2	2.34	0.41
2:H:1912:ASN:O	2:H:1913:VAL:CG2	2.67	0.41
1:A:534:UNK:O	1:A:535:UNK:C	2.69	0.41
1:A:753:TYR:CD1	1:A:809:GLN:HG2	2.56	0.41
1:A:1020:VAL:HG12	1:A:1021:VAL:N	2.35	0.41
1:A:1079:LYS:HE3	1:A:1097:ILE:HG12	2.02	0.41
1:A:1289:MET:C	1:A:1290:LEU:HD12	2.41	0.41
1:A:1332:TYR:N	1:A:1587:ALA:CB	2.70	0.41
1:A:1423:LYS:CG	1:A:1424:GLY:N	2.83	0.41
1:A:1501:LEU:O	1:A:1501:LEU:HD23	2.21	0.41
1:A:1538:VAL:HG21	1:A:1639:VAL:HA	1.94	0.41
1:A:1680:ARG:O	1:A:1683:SER:HB2	2.21	0.41
2:B:168:ASP:O	2:B:169:TYR:HB2	2.21	0.41
2:B:259:THR:C	2:B:261:GLY:N	2.73	0.41
2:B:267:LEU:CD2	2:B:457:ILE:HD13	2.51	0.41
2:B:304:PHE:CD2	2:B:305:PHE:N	2.89	0.41
2:B:885:UNK:O	2:B:886:UNK:CB	2.67	0.41
2:B:1638:UNK:O	2:B:1639:UNK:C	2.68	0.41
2:B:1880:LYS:CD	2:B:1899:VAL:HG13	2.40	0.41
1:D:625:UNK:O	1:D:628:UNK:CB	2.69	0.41
1:D:784:ILE:O	1:D:785:ASP:O	2.38	0.41
1:D:1028:GLY:CA	1:D:1591:TRP:HZ2	2.32	0.41
1:D:1193:TRP:HB2	1:D:1194:ASN:H	1.38	0.41
1:D:1248:GLY:O	1:D:1300:THR:HA	2.19	0.41
1:D:1323:LYS:O	1:D:1324:ALA:CB	2.64	0.41
1:D:1424:GLY:C	1:D:1426:LEU:N	2.69	0.41
1:D:1455:ARG:C	1:D:1457:ALA:N	2.73	0.41
1:D:1637:ARG:HB3	1:D:1638:ALA:H	1.56	0.41
1:D:1673:TYR:CZ	1:D:1677:VAL:HG21	2.55	0.41
1:D:1705:PRO:HB2	1:D:1731:LEU:HD12	2.02	0.41
1:D:1713:ASP:O	1:D:1714:VAL:C	2.58	0.41
2:E:2:ASP:OD2	2:E:2:ASP:N	2.54	0.41
2:E:177:TYR:CD2	2:E:219:LEU:HB3	2.56	0.41
2:E:698:UNK:H	2:E:702:UNK:CB	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1638:UNK:O	2:E:1639:UNK:C	2.68	0.41
2:E:1853:GLY:O	2:E:1854:MET:CB	2.69	0.41
1:G:221:UNK:O	1:G:222:UNK:C	2.69	0.41
1:G:580:UNK:C	1:G:582:UNK:N	2.83	0.41
1:G:904:ASN:N	1:G:904:ASN:ND2	2.58	0.41
1:G:948:VAL:HG12	1:G:949:GLU:N	2.35	0.41
1:G:1030:TRP:HB3	1:G:1035:THR:HG22	2.02	0.41
1:G:1063:HIS:HD2	1:G:1065:GLY:CA	2.34	0.41
1:G:1094:GLU:HG3	1:G:1095:THR:H	1.85	0.41
1:G:1108:PRO:CG	1:G:1362:PRO:HB2	2.51	0.41
1:G:1230:ASP:HA	1:G:1231:PRO:HD2	1.76	0.41
1:G:1245:ASN:O	1:G:1246:CYS:O	2.38	0.41
1:G:1275:LEU:O	1:G:1278:SER:HB3	2.21	0.41
1:G:1406:MET:CB	1:G:1654:ILE:HG22	2.50	0.41
1:G:1408:ALA:N	1:G:1653:ALA:HB2	2.33	0.41
1:G:1417:SER:C	1:G:1418:VAL:CG2	2.89	0.41
1:G:1419:PRO:O	1:G:1420:ALA:CB	2.68	0.41
1:G:1427:THR:O	1:G:1430:ARG:HB3	2.21	0.41
1:G:1433:HIS:HE1	1:G:1518:ARG:HH21	1.66	0.41
1:G:1621:PHE:O	1:G:1622:GLU:O	2.39	0.41
1:G:1745:UNK:C	1:G:1747:UNK:N	2.82	0.41
2:H:22:VAL:N	2:H:23:PRO:HD2	2.35	0.41
2:H:98:GLY:C	2:H:100:ASP:N	2.72	0.41
2:H:165:ASN:HB2	2:H:510:SER:HB2	2.01	0.41
2:H:244:ILE:HG22	2:H:248:HIS:NE2	2.35	0.41
2:H:824:UNK:HA	2:H:837:UNK:CB	2.51	0.41
2:H:948:UNK:O	2:H:949:UNK:C	2.67	0.41
2:H:1885:LEU:N	3:I:2:UNK:CB	2.77	0.41
1:A:458:UNK:HA	1:A:1631:LEU:CD2	2.50	0.41
1:A:942:LYS:O	1:A:943:LEU:C	2.58	0.41
1:A:1039:MET:HE3	1:A:1042:PHE:O	2.21	0.41
1:A:1041:ALA:CB	1:A:1042:PHE:CD1	3.04	0.41
1:A:1063:HIS:HD2	1:A:1065:GLY:CA	2.33	0.41
1:A:1106:ILE:O	1:A:1106:ILE:CG2	2.59	0.41
1:A:1162:GLU:O	1:A:1163:TYR:CD1	2.73	0.41
1:A:1201:SER:HB3	1:A:1204:ILE:HG12	1.97	0.41
1:A:1216:LEU:O	1:A:1219:VAL:CG1	2.67	0.41
1:A:1258:ARG:HD3	1:A:1338:GLU:OE2	2.19	0.41
1:A:1384:ILE:HD12	1:A:1384:ILE:HA	1.90	0.41
1:A:1491:ARG:NH1	1:A:1495:ASN:ND2	2.68	0.41
1:A:1560:MET:HG3	1:A:1560:MET:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1641:ILE:O	1:A:1642:THR:HB	2.20	0.41
1:A:1705:PRO:HG2	1:A:1706:TYR:CE1	2.55	0.41
1:A:1714:VAL:CG1	1:A:1731:LEU:HD13	2.38	0.41
1:A:1732:THR:CG2	1:A:1736:LYS:HB2	2.36	0.41
2:B:432:LEU:CD2	2:B:484:ILE:HG22	2.50	0.41
2:B:541:TYR:C	2:B:543:PHE:H	2.20	0.41
2:B:1678:MET:HE2	2:B:1678:MET:CA	2.48	0.41
2:B:1716:ASN:C	2:B:1718:THR:N	2.72	0.41
2:B:1893:VAL:C	2:B:1894:GLU:O	2.57	0.41
2:B:1938:GLY:O	2:B:1939:HIS:HB2	2.20	0.41
1:D:691:GLU:O	1:D:694:GLN:HB2	2.21	0.41
1:D:884:ILE:HB	1:D:885:ALA:H	1.69	0.41
1:D:922:VAL:O	1:D:922:VAL:HG12	2.20	0.41
1:D:994:GLU:O	1:D:995:LEU:O	2.38	0.41
1:D:1067:LEU:HG	1:D:1073:THR:CG2	2.28	0.41
1:D:1248:GLY:CA	1:D:1330:GLY:HA2	2.49	0.41
1:D:1262:LYS:HB3	1:D:1262:LYS:NZ	2.36	0.41
1:D:1394:LEU:HD23	1:D:1673:TYR:CZ	2.55	0.41
2:E:99:ASN:O	2:E:100:ASP:CB	2.69	0.41
2:E:191:SER:O	2:E:194:THR:HB	2.21	0.41
2:E:267:LEU:HD12	2:E:269:GLY:H	1.85	0.41
2:E:393:LEU:HD21	2:E:418:ASN:CG	2.40	0.41
2:E:772:UNK:CB	2:E:776:UNK:O	2.68	0.41
2:E:841:UNK:O	2:E:843:UNK:N	2.54	0.41
2:E:1012:UNK:O	2:E:1013:UNK:O	2.39	0.41
2:E:1455:UNK:O	2:E:1458:UNK:N	2.53	0.41
2:E:1742:VAL:CG2	2:E:1837:THR:HA	2.50	0.41
2:E:1753:LYS:C	2:E:1755:ILE:N	2.74	0.41
2:E:1799:PRO:O	2:E:1800:ALA:C	2.58	0.41
2:E:1912:ASN:C	2:E:1913:VAL:HG22	2.40	0.41
2:E:1923:ASP:O	2:E:1924:ILE:O	2.39	0.41
1:G:419:UNK:C	1:G:421:UNK:H	2.33	0.41
1:G:886:GLU:O	1:G:888:ILE:N	2.54	0.41
1:G:933:VAL:HA	1:G:934:PRO:HD3	1.64	0.41
1:G:1094:GLU:O	1:G:1095:THR:O	2.39	0.41
1:G:1094:GLU:HA	1:G:1094:GLU:OE2	2.20	0.41
1:G:1103:ILE:HG22	1:G:1104:ARG:N	2.35	0.41
1:G:1158:PRO:O	1:G:1159:GLU:HB2	2.21	0.41
1:G:1189:ILE:CB	1:G:1190:PRO:CD	2.99	0.41
1:G:1211:ILE:O	1:G:1212:THR:C	2.58	0.41
1:G:1220:VAL:HG21	1:G:1698:PHE:CD1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1312:VAL:O	1:G:1313:ASP:C	2.58	0.41
1:G:1453:VAL:O	1:G:1454:THR:O	2.38	0.41
1:G:1470:LEU:O	1:G:1470:LEU:HD23	2.21	0.41
1:G:1491:ARG:NH1	1:G:1495:ASN:ND2	2.69	0.41
1:G:1707:THR:HG23	1:G:1710:LEU:CD1	2.51	0.41
2:H:63:LYS:HB2	2:H:125:ASN:ND2	2.36	0.41
2:H:357:ASN:O	2:H:360:LEU:N	2.53	0.41
2:H:373:GLY:HA2	2:H:519:ASN:CG	2.39	0.41
2:H:382:PRO:O	2:H:383:PRO:C	2.58	0.41
2:H:515:LEU:HD12	2:H:515:LEU:C	2.41	0.41
2:H:533:LEU:O	2:H:541:TYR:CZ	2.74	0.41
2:H:694:UNK:O	2:H:696:UNK:N	2.54	0.41
2:H:1336:UNK:O	2:H:1337:UNK:C	2.68	0.41
2:H:1726:GLY:O	2:H:1727:LYS:C	2.59	0.41
2:H:1771:LEU:HD12	2:H:1771:LEU:HA	1.85	0.41
2:H:1856:ALA:O	2:H:1857:ILE:HG12	2.20	0.41
3:I:26:UNK:O	3:I:30:UNK:N	2.53	0.41
1:A:615:UNK:C	1:A:617:UNK:N	2.83	0.41
1:A:797:THR:HA	1:A:800:LEU:HD23	2.02	0.41
1:A:852:ARG:C	1:A:854:HIS:N	2.72	0.41
1:A:1117:GLU:O	1:A:1118:LYS:C	2.55	0.41
1:A:1220:VAL:C	1:A:1222:ALA:N	2.74	0.41
1:A:1341:PHE:C	1:A:1343:PHE:O	2.59	0.41
1:A:1642:THR:CA	1:A:1652:GLN:OE1	2.68	0.41
2:B:91:PHE:C	2:B:93:ASN:N	2.74	0.41
2:B:208:VAL:O	2:B:208:VAL:CG1	2.69	0.41
2:B:248:HIS:O	2:B:251:VAL:N	2.54	0.41
2:B:529:VAL:CG1	2:B:530:ALA:N	2.73	0.41
2:B:647:UNK:O	2:B:648:UNK:C	2.69	0.41
2:B:1318:UNK:CB	2:B:1366:UNK:O	2.69	0.41
2:B:1367:UNK:O	2:B:1369:UNK:N	2.54	0.41
2:B:1687:ALA:O	2:B:1688:GLN:O	2.39	0.41
2:B:1789:PHE:CZ	2:B:1798:ILE:HG13	2.55	0.41
1:D:468:UNK:CB	1:D:523:UNK:CB	2.99	0.41
1:D:491:UNK:O	1:D:493:UNK:N	2.54	0.41
1:D:819:PRO:HB3	1:D:861:GLN:N	2.36	0.41
1:D:824:LEU:HD13	1:D:846:LEU:HD22	2.03	0.41
1:D:839:TYR:HE1	1:D:843:LYS:CE	2.29	0.41
1:D:853:TRP:CD1	1:D:864:VAL:HG23	2.56	0.41
1:D:872:THR:O	1:D:873:ARG:O	2.38	0.41
1:D:996:LYS:HZ1	1:D:1400:ILE:CG1	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1118:LYS:O	1:D:1119:LYS:C	2.59	0.41
1:D:1168:LEU:CG	1:D:1169:LYS:H	2.34	0.41
1:D:1232:TYR:O	1:D:1235:TYR:HD2	2.03	0.41
1:D:1246:CYS:H	1:D:1328:ILE:HG23	1.86	0.41
1:D:1358:HIS:HB3	1:D:1359:GLY:H	1.58	0.41
1:D:1704:ALA:CB	1:D:1705:PRO:CD	2.96	0.41
2:E:4:TYR:HD1	2:E:5:SER:N	2.15	0.41
2:E:173:LEU:HD22	2:E:219:LEU:HD21	2.02	0.41
2:E:259:THR:C	2:E:261:GLY:N	2.74	0.41
2:E:357:ASN:O	2:E:360:LEU:N	2.54	0.41
2:E:649:UNK:O	2:E:650:UNK:C	2.68	0.41
2:E:1230:UNK:O	2:E:1231:UNK:CB	2.68	0.41
2:E:1628:UNK:O	2:E:1629:UNK:C	2.67	0.41
2:E:1751:ILE:O	2:E:1751:ILE:HG22	2.20	0.41
2:E:1871:LEU:CD2	2:E:1872:GLN:N	2.83	0.41
2:E:1935:GLU:C	2:E:1937:GLU:N	2.74	0.41
1:G:451:UNK:C	1:G:453:UNK:N	2.82	0.41
1:G:567:UNK:C	1:G:569:UNK:N	2.82	0.41
1:G:1428:THR:O	1:G:1428:THR:HG22	2.21	0.41
1:G:1573:ILE:HG23	1:G:1624:VAL:HG11	2.01	0.41
2:H:488:VAL:O	2:H:490:TRP:N	2.53	0.41
2:H:862:UNK:O	2:H:865:UNK:CB	2.69	0.41
2:H:1695:ASP:OD2	2:H:1707:LEU:N	2.54	0.41
2:H:1935:GLU:C	2:H:1937:GLU:N	2.72	0.41
1:A:703:VAL:CG1	1:A:704:VAL:N	2.83	0.41
1:A:741:SER:O	1:A:744:ASP:OD1	2.38	0.41
1:A:743:GLN:C	1:A:745:VAL:N	2.74	0.41
1:A:745:VAL:O	1:A:748:LEU:N	2.53	0.41
1:A:747:ALA:CA	1:A:750:GLU:HB3	2.49	0.41
1:A:753:TYR:CG	1:A:809:GLN:CG	3.04	0.41
1:A:860:ASN:HB2	1:A:861:GLN:NE2	2.35	0.41
1:A:891:MET:HG3	1:A:891:MET:O	2.21	0.41
1:A:999:LYS:C	1:A:1001:VAL:H	2.21	0.41
1:A:1008:GLU:O	1:A:1010:GLU:N	2.54	0.41
1:A:1036:ARG:HE	1:A:1036:ARG:C	2.24	0.41
1:A:1067:LEU:CG	1:A:1074:GLY:H	2.33	0.41
1:A:1128:GLU:HB2	1:A:1177:LYS:HG2	2.02	0.41
1:A:1205:ILE:HG22	1:A:1213:LEU:HD11	2.03	0.41
1:A:1213:LEU:HD22	1:A:1213:LEU:HA	1.72	0.41
1:A:1258:ARG:NH1	1:A:1258:ARG:CG	2.84	0.41
1:A:1321:SER:O	1:A:1323:LYS:N	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1353:LEU:O	1:A:1355:GLU:N	2.54	0.41
1:A:1462:TRP:CE3	1:A:1463:VAL:N	2.89	0.41
1:A:1513:TYR:CD1	1:A:1513:TYR:N	2.81	0.41
1:A:1575:VAL:O	1:A:1576:PHE:CB	2.69	0.41
1:A:1629:LYS:O	1:A:1630:THR:O	2.39	0.41
1:A:1688:PHE:CD2	1:A:1689:HIS:N	2.89	0.41
1:A:1701:LYS:HE3	1:A:1701:LYS:H	1.85	0.41
1:A:1706:TYR:C	1:A:1707:THR:HG22	2.40	0.41
1:A:1706:TYR:HB3	1:A:1714:VAL:HG21	2.03	0.41
2:B:4:TYR:OH	2:B:30:ALA:HA	2.21	0.41
2:B:56:THR:CA	2:B:59:GLU:HG2	2.51	0.41
2:B:182:VAL:O	2:B:184:VAL:N	2.48	0.41
2:B:259:THR:H	2:B:262:GLU:HB2	1.85	0.41
2:B:355:LYS:O	2:B:358:SER:HB2	2.20	0.41
2:B:427:PHE:N	2:B:427:PHE:CD1	2.89	0.41
2:B:948:UNK:O	2:B:949:UNK:C	2.67	0.41
2:B:1591:UNK:O	2:B:1594:UNK:N	2.54	0.41
2:B:1628:UNK:O	2:B:1629:UNK:C	2.68	0.41
2:B:1672:GLN:HB3	2:B:1781:LEU:CD1	2.49	0.41
2:B:1680:LEU:C	2:B:1680:LEU:CD2	2.89	0.41
2:B:1738:PHE:HB2	2:B:1755:ILE:CB	2.50	0.41
2:B:1753:LYS:C	2:B:1755:ILE:N	2.73	0.41
2:B:2036:UNK:O	2:B:2039:UNK:N	2.53	0.41
1:D:610:UNK:O	1:D:611:UNK:C	2.69	0.41
1:D:792:HIS:ND1	1:D:796:LEU:HD21	2.36	0.41
1:D:796:LEU:CG	1:D:797:THR:H	2.30	0.41
1:D:852:ARG:O	1:D:853:TRP:C	2.58	0.41
1:D:873:ARG:CG	1:D:874:GLY:N	2.82	0.41
1:D:1047:LEU:O	1:D:1048:GLU:C	2.59	0.41
1:D:1063:HIS:HD2	1:D:1065:GLY:CA	2.34	0.41
1:D:1072:TYR:N	1:D:1072:TYR:CD1	2.89	0.41
1:D:1148:HIS:NE2	1:D:1153:ASP:HB2	2.36	0.41
1:D:1189:ILE:CB	1:D:1190:PRO:CD	2.99	0.41
1:D:1198:TYR:CE2	1:D:1217:VAL:CG1	3.04	0.41
1:D:1213:LEU:O	1:D:1216:LEU:N	2.53	0.41
1:D:1248:GLY:O	1:D:1249:SER:HB3	2.20	0.41
1:D:1333:ASP:HB3	1:D:1585:LYS:O	2.20	0.41
1:D:1407:ALA:O	1:D:1408:ALA:O	2.39	0.41
1:D:1416:ARG:HG3	1:D:1416:ARG:HH11	1.84	0.41
1:D:1431:GLU:HA	1:D:1521:PRO:CB	2.49	0.41
1:D:1456:GLU:CA	1:D:1459:ILE:HG13	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1491:ARG:NH1	1:D:1495:ASN:ND2	2.68	0.41
1:D:1491:ARG:HH12	1:D:1495:ASN:ND2	2.19	0.41
1:D:1557:ILE:CA	1:D:1560:MET:HB3	2.50	0.41
1:D:1631:LEU:HB3	1:D:1634:ASP:HB2	2.02	0.41
1:D:1646:PHE:O	1:D:1648:GLN:N	2.54	0.41
2:E:131:ILE:HD13	2:E:182:VAL:CG1	2.45	0.41
2:E:324:LEU:O	2:E:324:LEU:HD12	2.21	0.41
2:E:355:LYS:HA	2:E:358:SER:OG	2.20	0.41
2:E:444:VAL:CA	2:E:449:SER:OG	2.67	0.41
2:E:460:TYR:CD1	2:E:496:PHE:HE2	2.39	0.41
2:E:504:PHE:O	2:E:505:GLY:C	2.59	0.41
2:E:536:ASN:O	2:E:537:PRO:C	2.59	0.41
2:E:601:UNK:C	2:E:603:UNK:N	2.80	0.41
2:E:653:UNK:O	2:E:655:UNK:N	2.54	0.41
2:E:956:UNK:O	2:E:959:UNK:N	2.54	0.41
2:E:982:UNK:C	2:E:983:UNK:O	2.69	0.41
2:E:1011:UNK:O	2:E:1012:UNK:CB	2.69	0.41
2:E:1307:UNK:CB	2:H:317:THR:HG23	2.51	0.41
2:E:1694:ALA:O	2:E:1698:PHE:HB2	2.21	0.41
2:E:1698:PHE:O	2:E:1702:TYR:N	2.49	0.41
2:E:1713:ASN:O	2:E:1715:VAL:N	2.52	0.41
2:E:1812:TYR:C	2:E:1814:ALA:N	2.72	0.41
2:E:1929:LYS:HE2	2:E:1929:LYS:N	2.36	0.41
2:E:1972:UNK:O	2:E:1975:UNK:O	2.39	0.41
1:G:536:UNK:O	1:G:537:UNK:C	2.68	0.41
1:G:761:LEU:HD11	1:G:763:TRP:CD2	2.55	0.41
1:G:792:HIS:HA	1:G:842:SER:OG	2.19	0.41
1:G:799:ILE:O	1:G:800:LEU:C	2.60	0.41
1:G:826:MET:HE2	1:G:826:MET:HB3	1.84	0.41
1:G:841:GLU:CD	1:G:841:GLU:H	2.24	0.41
1:G:935:GLU:O	1:G:936:LEU:C	2.60	0.41
1:G:1021:VAL:HG21	1:G:1597:LEU:HD11	2.03	0.41
1:G:1062:TYR:CE2	1:G:1693:ILE:HB	2.56	0.41
1:G:1067:LEU:C	1:G:1069:GLY:N	2.74	0.41
1:G:1089:VAL:C	1:G:1091:ALA:H	2.23	0.41
1:G:1226:SER:O	1:G:1226:SER:OG	2.37	0.41
1:G:1248:GLY:CA	1:G:1330:GLY:HA2	2.49	0.41
1:G:1286:TRP:C	1:G:1288:ASN:H	2.24	0.41
1:G:1463:VAL:O	1:G:1466:GLU:N	2.54	0.41
1:G:1553:GLU:OE1	1:G:1644:PHE:CE2	2.73	0.41
1:G:1612:ASP:O	1:G:1613:ASN:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1629:LYS:O	1:G:1630:THR:O	2.38	0.41
1:G:1665:ILE:HD12	1:G:1669:ARG:CB	2.51	0.41
1:G:1719:LEU:CB	1:G:1739:GLN:HA	2.51	0.41
2:H:56:THR:O	2:H:59:GLU:CB	2.68	0.41
2:H:71:LEU:HD12	2:H:76:LYS:HZ3	1.86	0.41
2:H:191:SER:O	2:H:194:THR:HB	2.21	0.41
2:H:209:PHE:CE1	2:H:235:PRO:HB2	2.56	0.41
2:H:306:ILE:HG13	2:H:306:ILE:H	1.73	0.41
2:H:504:PHE:O	2:H:505:GLY:C	2.59	0.41
2:H:620:UNK:O	2:H:623:UNK:N	2.54	0.41
2:H:646:UNK:O	2:H:647:UNK:C	2.69	0.41
2:H:675:UNK:O	2:H:676:UNK:C	2.69	0.41
2:H:742:UNK:O	2:H:745:UNK:N	2.53	0.41
2:H:744:UNK:O	2:H:746:UNK:N	2.54	0.41
2:H:1011:UNK:O	2:H:1012:UNK:CB	2.68	0.41
2:H:1320:UNK:C	2:H:1322:UNK:N	2.78	0.41
2:H:1731:GLU:CA	2:H:1735:ALA:HB3	2.50	0.41
2:H:1742:VAL:CG2	2:H:1751:ILE:HD11	2.51	0.41
2:H:1855:ILE:HG13	2:H:1856:ALA:N	2.36	0.41
1:A:691:GLU:O	1:A:692:VAL:C	2.57	0.41
1:A:791:ALA:O	1:A:792:HIS:C	2.60	0.41
1:A:996:LYS:HZ1	1:A:1400:ILE:CG1	2.34	0.41
1:A:1033:ALA:O	1:A:1034:ARG:C	2.59	0.41
1:A:1089:VAL:HG23	1:A:1091:ALA:HB3	2.03	0.41
1:A:1332:TYR:HA	1:A:1382:ALA:HA	2.03	0.41
1:A:1393:ALA:C	1:A:1395:LYS:N	2.74	0.41
1:A:1433:HIS:NE2	1:A:1523:ARG:NE	2.68	0.41
1:A:1574:GLY:O	1:A:1624:VAL:HG11	2.21	0.41
1:A:1728:SER:O	1:A:1729:GLY:C	2.58	0.41
1:A:1737:ASN:OD1	1:A:1739:GLN:N	2.51	0.41
2:B:56:THR:O	2:B:59:GLU:CB	2.69	0.41
2:B:61:VAL:HG12	2:B:65:LEU:CD1	2.50	0.41
2:B:387:TYR:HA	2:B:390:ASN:ND2	2.20	0.41
2:B:490:TRP:HZ2	2:B:516:THR:HG1	1.67	0.41
2:B:1594:UNK:C	2:B:1596:UNK:N	2.83	0.41
2:B:1864:ALA:N	2:B:1866:PHE:HB2	2.36	0.41
2:B:1889:VAL:O	2:B:1890:ASN:HB2	2.21	0.41
2:B:1931:LEU:O	2:B:1934:GLU:HB3	2.20	0.41
2:B:1969:UNK:O	2:B:1973:UNK:CB	2.69	0.41
1:D:298:UNK:O	1:D:299:UNK:C	2.69	0.41
1:D:631:UNK:C	1:D:632:UNK:O	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:703:VAL:CG1	1:D:704:VAL:N	2.82	0.41
1:D:724:LYS:C	1:D:725:TYR:HD1	2.24	0.41
1:D:747:ALA:O	1:D:748:LEU:C	2.57	0.41
1:D:797:THR:HG22	1:D:798:ASN:H	1.83	0.41
1:D:845:SER:O	1:D:847:GLU:N	2.54	0.41
1:D:1018:VAL:O	1:D:1018:VAL:HG13	2.21	0.41
1:D:1151:LYS:HD2	1:D:1151:LYS:N	2.33	0.41
1:D:1275:LEU:O	1:D:1275:LEU:HD13	2.21	0.41
1:D:1286:TRP:C	1:D:1288:ASN:H	2.23	0.41
1:D:1502:ARG:C	1:D:1504:ALA:N	2.71	0.41
1:D:1536:LEU:HD23	1:D:1654:ILE:CD1	2.50	0.41
2:E:4:TYR:OH	2:E:30:ALA:HA	2.20	0.41
2:E:60:LEU:H	2:E:60:LEU:CD1	2.34	0.41
2:E:77:VAL:CG1	2:E:78:GLY:N	2.82	0.41
2:E:149:VAL:O	2:E:266:TYR:HD2	2.03	0.41
2:E:161:GLY:HA2	2:E:512:LEU:CD1	2.50	0.41
2:E:646:UNK:C	2:E:648:UNK:N	2.84	0.41
2:E:1432:UNK:O	2:E:1433:UNK:CB	2.69	0.41
2:E:1777:THR:HG22	2:E:1781:LEU:HD12	2.02	0.41
2:E:1789:PHE:CZ	2:E:1798:ILE:HG13	2.55	0.41
2:E:1825:GLU:HB2	2:E:1826:SER:H	1.55	0.41
2:E:1857:ILE:HG23	2:E:1949:UNK:CB	2.51	0.41
2:E:1874:VAL:CG2	2:E:1928:GLN:HE22	2.28	0.41
2:E:1931:LEU:O	2:E:1934:GLU:HB3	2.21	0.41
2:E:2006:UNK:HA	2:E:2009:UNK:O	2.20	0.41
1:G:209:UNK:O	1:G:213:UNK:CB	2.68	0.41
1:G:495:UNK:O	1:G:496:UNK:C	2.69	0.41
1:G:1015:LEU:O	1:G:1016:GLU:HB3	2.21	0.41
1:G:1229:THR:O	1:G:1229:THR:HG23	2.21	0.41
1:G:1391:ASP:C	1:G:1393:ALA:N	2.74	0.41
1:G:1393:ALA:C	1:G:1395:LYS:N	2.73	0.41
1:G:1425:ILE:HG21	1:G:1648:GLN:OE1	2.20	0.41
1:G:1491:ARG:HH12	1:G:1495:ASN:ND2	2.19	0.41
1:G:1614:VAL:O	1:G:1615:ASP:CB	2.53	0.41
1:G:1674:VAL:O	1:G:1674:VAL:HG12	2.21	0.41
2:H:25:ALA:HB1	2:H:65:LEU:HD21	2.01	0.41
2:H:82:GLN:O	2:H:85:ASN:N	2.53	0.41
2:H:100:ASP:CB	2:H:546:UNK:CB	2.99	0.41
2:H:232:LEU:HD23	2:H:232:LEU:C	2.41	0.41
2:H:234:ILE:CD1	2:H:310:CYS:HB2	2.51	0.41
2:H:242:GLY:O	2:H:246:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:285:GLU:HB3	2:H:454:ASP:O	2.21	0.41
2:H:429:SER:OG	2:H:432:LEU:HB3	2.21	0.41
2:H:1453:UNK:HA	2:H:1505:UNK:CB	2.51	0.41
2:H:1720:HIS:CB	2:H:1762:TYR:O	2.68	0.41
2:H:1738:PHE:HB2	2:H:1755:ILE:CB	2.50	0.41
2:H:1828:VAL:CG1	2:H:1829:GLU:N	2.82	0.41
2:H:1904:LEU:O	2:H:1908:ASP:HB2	2.21	0.41
2:H:1972:UNK:O	2:H:1975:UNK:O	2.39	0.41
1:A:468:UNK:CB	1:A:523:UNK:CB	2.99	0.40
1:A:631:UNK:C	1:A:632:UNK:O	2.67	0.40
1:A:869:ILE:HD13	1:A:905:LEU:HD21	2.03	0.40
1:A:1047:LEU:O	1:A:1048:GLU:C	2.59	0.40
1:A:1094:GLU:C	1:A:1095:THR:O	2.58	0.40
1:A:1156:GLU:HG2	1:A:1170:GLY:N	2.35	0.40
1:A:1156:GLU:HB2	1:A:1169:LYS:NZ	2.36	0.40
1:A:1193:TRP:HB2	1:A:1194:ASN:H	1.38	0.40
1:A:1216:LEU:HD11	1:A:1290:LEU:HD22	2.03	0.40
1:A:1248:GLY:HA3	1:A:1332:TYR:OH	2.22	0.40
1:A:1419:PRO:O	1:A:1420:ALA:CB	2.68	0.40
1:A:1519:ILE:HD11	1:A:1524:GLY:CA	2.51	0.40
1:A:1527:ALA:O	1:A:1529:TYR:N	2.54	0.40
1:A:1860:UNK:C	1:A:1862:UNK:N	2.82	0.40
2:B:9:LEU:HD11	2:B:55:THR:HG23	2.04	0.40
2:B:321:PRO:C	2:B:323:ILE:H	2.24	0.40
2:B:911:UNK:O	2:B:912:UNK:CB	2.68	0.40
2:B:1477:UNK:C	2:B:1484:UNK:CB	2.99	0.40
2:B:1742:VAL:CG1	2:B:1743:ASP:N	2.85	0.40
1:D:632:UNK:CB	1:D:894:ARG:HH22	2.35	0.40
1:D:997:PRO:O	1:D:1002:LYS:HE3	2.20	0.40
1:D:1002:LYS:C	1:D:1004:ILE:H	2.25	0.40
1:D:1062:TYR:CE2	1:D:1693:ILE:HB	2.56	0.40
1:D:1080:THR:OG1	1:D:1083:PRO:HG3	2.21	0.40
1:D:1277:GLU:OE2	1:D:1277:GLU:CA	2.68	0.40
1:D:1304:ALA:O	1:D:1305:CYS:CB	2.69	0.40
1:D:1319:ILE:O	1:D:1320:LEU:O	2.39	0.40
1:D:1580:LEU:O	1:D:1581:THR:OG1	2.34	0.40
2:E:101:ILE:HA	2:E:101:ILE:HD13	1.87	0.40
2:E:195:LEU:HD22	2:E:304:PHE:HD1	1.86	0.40
2:E:681:UNK:O	2:E:685:UNK:N	2.54	0.40
2:E:1674:GLN:HB3	2:E:1675:GLY:H	1.69	0.40
2:E:1716:ASN:C	2:E:1718:THR:N	2.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1758:HIS:O	2:E:1759:SER:C	2.60	0.40
2:E:1771:LEU:HD12	2:E:1771:LEU:HA	1.86	0.40
2:E:1905:ARG:HA	2:E:1908:ASP:HB3	2.03	0.40
2:E:2033:UNK:O	2:E:2034:UNK:C	2.69	0.40
1:G:412:UNK:O	1:G:415:UNK:N	2.54	0.40
1:G:691:GLU:O	1:G:692:VAL:C	2.59	0.40
1:G:1015:LEU:HD23	1:G:1018:VAL:CG1	2.48	0.40
1:G:1024:PHE:HD2	1:G:1594:ASN:OD1	2.04	0.40
1:G:1367:ARG:O	1:G:1368:PRO:C	2.59	0.40
1:G:1462:TRP:CE3	1:G:1463:VAL:N	2.88	0.40
1:G:1493:ILE:O	1:G:1494:HIS:C	2.59	0.40
1:G:1574:GLY:O	1:G:1624:VAL:HG11	2.21	0.40
1:G:1585:LYS:HB3	1:G:1585:LYS:HE3	1.77	0.40
1:G:1639:VAL:CG2	1:G:1655:VAL:HG12	2.51	0.40
1:G:1691:GLY:C	1:G:1697:LEU:CD1	2.88	0.40
2:H:144:ALA:HA	2:H:147:ARG:HG3	2.02	0.40
2:H:145:LEU:HD22	2:H:550:UNK:O	2.22	0.40
2:H:346:GLN:C	2:H:348:GLN:N	2.74	0.40
2:H:354:ASN:O	2:H:355:LYS:C	2.59	0.40
2:H:517:HIS:CD2	2:H:517:HIS:C	2.94	0.40
2:H:597:UNK:O	2:H:600:UNK:N	2.54	0.40
2:H:962:UNK:C	2:H:964:UNK:N	2.81	0.40
2:H:1582:UNK:O	2:H:1583:UNK:CB	2.69	0.40
2:H:1674:GLN:O	2:H:1675:GLY:C	2.58	0.40
2:H:1674:GLN:HE21	2:H:1712:ASN:HA	1.84	0.40
2:H:1684:SER:C	2:H:1686:ALA:N	2.73	0.40
2:H:1807:HIS:O	2:H:1808:SER:HB3	2.21	0.40
2:H:1822:MET:HE1	2:H:1830:VAL:CG1	2.51	0.40
2:H:1853:GLY:O	2:H:1854:MET:CB	2.68	0.40
2:H:1899:VAL:O	2:H:1903:ASP:CB	2.62	0.40
1:A:209:UNK:O	1:A:213:UNK:CB	2.70	0.40
1:A:681:THR:CG2	1:A:771:PHE:O	2.68	0.40
1:A:737:PHE:CD1	1:A:748:LEU:CD2	3.04	0.40
1:A:797:THR:O	1:A:798:ASN:C	2.59	0.40
1:A:1108:PRO:CB	1:A:1362:PRO:HB2	2.51	0.40
1:A:1210:PRO:HB2	1:A:1211:ILE:H	1.53	0.40
1:A:1230:ASP:C	1:A:1232:TYR:N	2.75	0.40
1:A:1257:LEU:CD2	1:A:1257:LEU:C	2.89	0.40
1:A:1338:GLU:CD	1:A:1338:GLU:H	2.24	0.40
1:A:1457:ALA:O	1:A:1458:GLN:C	2.60	0.40
1:A:1522:LEU:HD12	1:A:1522:LEU:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1606:PRO:CD	1:A:1607:GLY:N	2.84	0.40
2:B:1:MET:N	2:B:11:LEU:O	2.46	0.40
2:B:149:VAL:HG21	2:B:156:LEU:N	2.37	0.40
2:B:239:PRO:O	2:B:243:VAL:HG23	2.22	0.40
2:B:368:ILE:HA	2:B:379:VAL:HG22	2.03	0.40
2:B:382:PRO:O	2:B:383:PRO:C	2.59	0.40
2:B:1047:UNK:O	2:B:1048:UNK:C	2.67	0.40
1:D:580:UNK:C	1:D:582:UNK:N	2.83	0.40
1:D:753:TYR:CG	1:D:809:GLN:CG	3.05	0.40
1:D:834:GLY:O	1:D:836:ASP:N	2.53	0.40
1:D:909:LEU:O	1:D:909:LEU:CG	2.69	0.40
1:D:1064:ASN:CG	1:D:1069:GLY:HA3	2.41	0.40
1:D:1192:GLY:C	1:D:1193:TRP:CG	2.91	0.40
1:D:1211:ILE:O	1:D:1214:PHE:N	2.53	0.40
1:D:1211:ILE:HG13	1:D:1283:MET:SD	2.60	0.40
1:D:1351:ASN:O	1:D:1352:THR:C	2.58	0.40
1:D:1667:GLU:O	1:D:1669:ARG:N	2.53	0.40
2:E:1:MET:N	2:E:11:LEU:O	2.45	0.40
2:E:22:VAL:H	2:E:23:PRO:HD2	1.86	0.40
2:E:255:LEU:C	2:E:257:GLY:N	2.75	0.40
2:E:469:ARG:HH11	2:E:475:ILE:HD11	1.85	0.40
2:E:1012:UNK:O	2:E:1015:UNK:CB	2.69	0.40
2:E:1323:UNK:O	2:E:1327:UNK:N	2.54	0.40
2:E:1689:ASP:HA	2:E:1692:ASN:HD22	1.86	0.40
2:E:1706:ILE:HG22	2:E:1710:VAL:HG23	2.04	0.40
2:E:1855:ILE:HB	2:E:1950:UNK:O	2.21	0.40
2:E:1903:ASP:OD2	2:E:1907:LEU:HD21	2.21	0.40
2:E:1983:UNK:O	2:E:1985:UNK:N	2.55	0.40
1:G:625:UNK:HA	1:G:628:UNK:CB	2.51	0.40
1:G:733:ILE:HD12	1:G:761:LEU:HD13	2.03	0.40
1:G:752:ILE:HG12	1:G:761:LEU:HD23	2.02	0.40
1:G:860:ASN:HB2	1:G:861:GLN:HE22	1.87	0.40
1:G:1020:VAL:HG12	1:G:1021:VAL:N	2.35	0.40
1:G:1047:LEU:O	1:G:1048:GLU:C	2.59	0.40
1:G:1214:PHE:O	1:G:1215:VAL:C	2.57	0.40
1:G:1251:MET:N	1:G:1333:ASP:OD2	2.46	0.40
1:G:1712:GLU:O	1:G:1715:TYR:HB2	2.21	0.40
2:H:4:TYR:OH	2:H:30:ALA:HA	2.21	0.40
2:H:126:TYR:O	2:H:127:ILE:C	2.59	0.40
2:H:234:ILE:HG12	2:H:307:GLY:CA	2.51	0.40
2:H:248:HIS:O	2:H:251:VAL:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:274:SER:HB3	2:H:428:HIS:NE2	2.36	0.40
2:H:344:LEU:HD22	2:H:348:GLN:OE1	2.21	0.40
2:H:357:ASN:HB3	2:H:365:GLN:NE2	2.36	0.40
2:H:484:ILE:O	2:H:485:ARG:HB2	2.21	0.40
2:H:726:UNK:CB	2:H:786:UNK:O	2.68	0.40
2:H:1332:UNK:O	2:H:1334:UNK:N	2.54	0.40
2:H:1364:UNK:O	2:H:1365:UNK:O	2.40	0.40
2:H:1897:GLN:HG3	2:H:1898:TYR:N	2.36	0.40
1:A:858:TRP:HA	1:A:861:GLN:HE21	1.86	0.40
1:A:1040:GLU:O	1:A:1606:PRO:HG3	2.21	0.40
1:A:1062:TYR:CE2	1:A:1693:ILE:HB	2.57	0.40
1:A:1103:ILE:O	1:A:1106:ILE:CG1	2.70	0.40
1:A:1258:ARG:HH11	1:A:1258:ARG:CG	2.23	0.40
1:A:1367:ARG:O	1:A:1368:PRO:C	2.60	0.40
1:A:1406:MET:HB3	1:A:1654:ILE:HG22	2.04	0.40
1:A:1416:ARG:HG3	1:A:1416:ARG:HH11	1.87	0.40
1:A:1417:SER:O	1:A:1418:VAL:HG22	2.21	0.40
2:B:2:ASP:N	2:B:2:ASP:OD2	2.53	0.40
2:B:99:ASN:O	2:B:100:ASP:CB	2.69	0.40
2:B:159:ILE:HB	2:B:503:ASP:CG	2.40	0.40
2:B:195:LEU:HD22	2:B:304:PHE:HD1	1.85	0.40
2:B:317:THR:HG23	2:H:1307:UNK:CB	2.51	0.40
2:B:346:GLN:C	2:B:348:GLN:N	2.74	0.40
2:B:646:UNK:O	2:B:647:UNK:C	2.69	0.40
2:B:698:UNK:H	2:B:702:UNK:CB	2.34	0.40
2:B:980:UNK:C	2:B:982:UNK:N	2.84	0.40
2:B:982:UNK:C	2:B:983:UNK:O	2.68	0.40
2:B:1067:UNK:C	2:B:1069:UNK:N	2.84	0.40
2:B:1756:ASN:OD1	2:B:1759:SER:HB2	2.21	0.40
2:B:1789:PHE:HE1	2:B:1798:ILE:HG13	1.83	0.40
1:D:891:MET:HG3	1:D:891:MET:O	2.22	0.40
1:D:901:MET:CE	1:D:901:MET:C	2.90	0.40
1:D:1088:ASP:OD2	1:D:1097:ILE:HG21	2.21	0.40
1:D:1089:VAL:C	1:D:1091:ALA:H	2.25	0.40
1:D:1139:GLU:N	1:D:1139:GLU:OE1	2.53	0.40
1:D:1328:ILE:HA	1:D:1386:ILE:HA	2.03	0.40
1:D:1422:GLY:HA2	1:D:1425:ILE:CB	2.47	0.40
1:D:1453:VAL:O	1:D:1454:THR:O	2.39	0.40
1:D:1707:THR:HG23	1:D:1710:LEU:CD1	2.52	0.40
2:E:27:PHE:HA	2:E:30:ALA:HB3	2.03	0.40
2:E:215:ILE:HG13	2:E:215:ILE:H	1.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:408:PRO:O	2:E:410:SER:N	2.55	0.40
2:E:416:PHE:HB3	2:E:418:ASN:ND2	2.37	0.40
2:E:895:UNK:CB	2:E:898:UNK:CB	3.00	0.40
2:E:946:UNK:C	2:E:948:UNK:N	2.83	0.40
2:E:1295:UNK:O	2:E:1297:UNK:N	2.54	0.40
2:E:1360:UNK:O	2:E:1362:UNK:N	2.54	0.40
2:E:1695:ASP:OD2	2:E:1705:SER:HB2	2.20	0.40
1:G:622:UNK:O	1:G:624:UNK:N	2.53	0.40
1:G:852:ARG:O	1:G:853:TRP:C	2.60	0.40
1:G:1198:TYR:HD2	1:G:1217:VAL:HG22	1.86	0.40
1:G:1216:LEU:HD11	1:G:1290:LEU:HD22	2.03	0.40
1:G:1246:CYS:HB3	1:G:1328:ILE:CG2	2.27	0.40
1:G:1249:SER:HB3	1:G:1301:PRO:CD	2.49	0.40
1:G:1256:ALA:HB1	1:G:1274:ILE:HD11	2.02	0.40
1:G:1456:GLU:CA	1:G:1459:ILE:HG13	2.51	0.40
2:H:216:LEU:HB3	2:H:217:GLU:H	1.68	0.40
2:H:259:THR:H	2:H:262:GLU:HG3	1.85	0.40
2:H:294:VAL:O	2:H:297:ARG:HB3	2.22	0.40
2:H:529:VAL:CG1	2:H:530:ALA:N	2.75	0.40
2:H:1295:UNK:O	2:H:1297:UNK:N	2.53	0.40
2:H:1333:UNK:O	2:H:1334:UNK:O	2.40	0.40
2:H:1373:UNK:O	2:H:1374:UNK:CB	2.68	0.40
2:H:1694:ALA:O	2:H:1698:PHE:HB2	2.21	0.40
2:H:1702:TYR:O	2:H:1703:GLY:C	2.59	0.40
2:H:1723:GLY:O	2:H:1724:GLU:O	2.40	0.40
2:H:1844:ARG:CG	2:H:1850:SER:HA	2.50	0.40
2:H:1905:ARG:HA	2:H:1908:ASP:HB3	2.03	0.40
2:H:1912:ASN:C	2:H:1913:VAL:HG22	2.41	0.40
1:A:752:ILE:HG12	1:A:761:LEU:HD23	2.03	0.40
1:A:794:ILE:HA	1:A:798:ASN:HD22	1.86	0.40
1:A:810:LYS:C	1:A:812:ALA:N	2.72	0.40
1:A:850:PHE:CE2	1:A:864:VAL:HG12	2.56	0.40
1:A:901:MET:HE3	1:A:905:LEU:CD2	2.47	0.40
1:A:993:PRO:HG3	1:A:1681:GLU:CB	2.43	0.40
1:A:1002:LYS:CE	1:A:1670:TYR:OH	2.70	0.40
1:A:1139:GLU:N	1:A:1139:GLU:OE1	2.54	0.40
1:A:1277:GLU:OE2	1:A:1277:GLU:CA	2.70	0.40
1:A:1403:ILE:CG2	1:A:1657:HIS:O	2.70	0.40
1:A:1491:ARG:HH12	1:A:1495:ASN:ND2	2.19	0.40
1:A:1555:ALA:HA	1:A:1558:ASN:CB	2.51	0.40
2:B:37:PHE:O	2:B:41:LEU:HD11	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:91:PHE:HZ	2:B:101:ILE:HD11	1.82	0.40
2:B:309:ARG:HD3	2:B:312:GLU:OE1	2.22	0.40
2:B:344:LEU:HD13	2:B:348:GLN:HB2	2.04	0.40
2:B:344:LEU:HD22	2:B:348:GLN:OE1	2.22	0.40
2:B:711:UNK:O	2:B:712:UNK:CB	2.70	0.40
2:B:772:UNK:CB	2:B:776:UNK:O	2.70	0.40
2:B:1020:UNK:O	2:B:1022:UNK:N	2.36	0.40
2:B:1550:UNK:O	2:B:1552:UNK:N	2.55	0.40
2:B:1807:HIS:O	2:B:1808:SER:HB3	2.20	0.40
2:B:1815:LEU:O	2:B:1821:VAL:HG13	2.21	0.40
2:B:1897:GLN:HG3	2:B:1898:TYR:N	2.37	0.40
2:B:1927:LEU:HA	2:B:1927:LEU:HD23	1.88	0.40
2:B:1928:GLN:C	2:B:1930:SER:H	2.25	0.40
1:D:503:UNK:C	1:D:505:UNK:N	2.76	0.40
1:D:826:MET:CE	1:D:847:GLU:HG3	2.45	0.40
1:D:886:GLU:O	1:D:888:ILE:N	2.55	0.40
1:D:904:ASN:HD22	1:D:904:ASN:H	1.66	0.40
1:D:917:CYS:O	1:D:920:SER:O	2.39	0.40
1:D:1029:PRO:HD2	1:D:1591:TRP:HH2	1.85	0.40
1:D:1036:ARG:O	1:D:1037:TRP:C	2.60	0.40
1:D:1040:GLU:O	1:D:1606:PRO:CG	2.70	0.40
1:D:1080:THR:HG1	1:D:1083:PRO:CG	2.35	0.40
1:D:1207:GLN:NE2	1:D:1277:GLU:OE1	2.50	0.40
1:D:1288:ASN:ND2	1:D:1292:ILE:O	2.55	0.40
1:D:1329:VAL:HB	1:D:1385:GLN:O	2.22	0.40
1:D:1531:LEU:O	1:D:1532:THR:O	2.39	0.40
1:D:1573:ILE:HG23	1:D:1624:VAL:HG11	2.02	0.40
1:D:1706:TYR:HB3	1:D:1714:VAL:HG21	2.04	0.40
2:E:77:VAL:HG12	2:E:78:GLY:H	1.86	0.40
2:E:294:VAL:O	2:E:298:LYS:HG3	2.22	0.40
2:E:415:LYS:C	2:E:416:PHE:HD1	2.25	0.40
2:E:511:GLY:C	2:E:513:GLY:H	2.17	0.40
2:E:529:VAL:HG12	2:E:530:ALA:H	1.80	0.40
2:E:926:UNK:O	2:E:929:UNK:N	2.55	0.40
2:E:1067:UNK:C	2:E:1069:UNK:N	2.84	0.40
2:E:1477:UNK:C	2:E:1484:UNK:CB	2.99	0.40
2:E:1594:UNK:C	2:E:1596:UNK:N	2.85	0.40
2:E:1742:VAL:CG2	2:E:1751:ILE:HD11	2.51	0.40
2:E:1867:SER:CA	2:E:1870:ALA:HB3	2.47	0.40
2:E:1904:LEU:O	2:E:1908:ASP:HB2	2.21	0.40
2:E:1922:ILE:HG22	2:E:1922:ILE:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:151:UNK:C	1:G:153:UNK:N	2.83	0.40
1:G:644:UNK:CB	1:G:647:UNK:C	2.99	0.40
1:G:737:PHE:CD1	1:G:748:LEU:CD2	3.04	0.40
1:G:901:MET:HE3	1:G:905:LEU:CD2	2.50	0.40
1:G:916:LEU:O	1:G:916:LEU:HD12	2.22	0.40
1:G:1088:ASP:OD2	1:G:1097:ILE:HG21	2.21	0.40
1:G:1240:VAL:HG13	1:G:1242:GLU:H	1.86	0.40
1:G:1414:ILE:O	1:G:1414:ILE:HG22	2.22	0.40
1:G:1457:ALA:O	1:G:1458:GLN:C	2.60	0.40
1:G:1472:LEU:HD13	1:G:1472:LEU:C	2.42	0.40
1:G:1504:ALA:C	1:G:1506:GLN:N	2.73	0.40
1:G:1606:PRO:CD	1:G:1607:GLY:H	2.34	0.40
1:G:1637:ARG:O	1:G:1656:VAL:HA	2.21	0.40
1:G:1692:MET:O	1:G:1692:MET:HG2	2.20	0.40
2:H:170:PHE:C	2:H:172:GLU:H	2.25	0.40
2:H:241:ILE:CG2	2:H:275:GLN:NE2	2.67	0.40
2:H:372:ASN:HA	2:H:490:TRP:HB3	2.04	0.40
2:H:455:ILE:O	2:H:456:GLN:O	2.40	0.40
2:H:486:LEU:HA	2:H:487:PRO:HD3	1.89	0.40
2:H:657:UNK:O	2:H:658:UNK:C	2.68	0.40
2:H:681:UNK:O	2:H:685:UNK:N	2.55	0.40
2:H:1671:SER:OG	3:I:22:UNK:CB	2.70	0.40
2:H:1884:TRP:H	2:H:1892:ASN:CB	2.32	0.40
1:A:496:UNK:CB	1:A:629:UNK:CB	3.00	0.40
1:A:733:ILE:HD12	1:A:761:LEU:HD13	2.03	0.40
1:A:755:THR:CG2	1:A:756:GLU:N	2.83	0.40
1:A:1029:PRO:HA	1:A:1193:TRP:NE1	2.36	0.40
1:A:1080:THR:HG1	1:A:1083:PRO:CD	2.35	0.40
1:A:1128:GLU:CB	1:A:1177:LYS:HE3	2.42	0.40
1:A:1308:SER:OG	1:A:1589:GLY:CA	2.70	0.40
1:A:1367:ARG:HB2	1:A:1370:THR:OG1	2.21	0.40
1:A:1674:VAL:HG12	1:A:1674:VAL:O	2.21	0.40
1:A:1864:UNK:O	1:A:1865:UNK:CB	2.69	0.40
2:B:52:ASP:HB2	2:B:113:ASP:OD2	2.21	0.40
2:B:131:ILE:HG21	2:B:182:VAL:HG22	2.01	0.40
2:B:414:LEU:H	2:B:414:LEU:HG	1.66	0.40
2:B:443:LEU:C	2:B:449:SER:HB3	2.42	0.40
2:B:504:PHE:O	2:B:505:GLY:C	2.58	0.40
2:B:1336:UNK:O	2:B:1337:UNK:C	2.69	0.40
2:B:1364:UNK:O	2:B:1365:UNK:O	2.40	0.40
2:B:1584:UNK:O	2:B:1585:UNK:C	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1674:GLN:O	2:B:1675:GLY:C	2.59	0.40
2:B:1695:ASP:OD2	2:B:1705:SER:HB2	2.20	0.40
2:B:1856:ALA:O	2:B:1857:ILE:HG12	2.21	0.40
1:D:741:SER:O	1:D:744:ASP:OD1	2.38	0.40
1:D:843:LYS:O	1:D:846:LEU:N	2.55	0.40
1:D:1031:GLY:H	1:D:1035:THR:HG21	1.86	0.40
1:D:1203:ASP:O	1:D:1206:SER:N	2.55	0.40
1:D:1208:VAL:HB	1:D:1212:THR:CB	2.51	0.40
1:D:1527:ALA:O	1:D:1529:TYR:N	2.55	0.40
1:D:1550:ASP:O	1:D:1551:LYS:C	2.60	0.40
1:D:1560:MET:HG3	1:D:1560:MET:O	2.22	0.40
1:D:1583:HIS:CE1	1:D:1585:LYS:C	2.95	0.40
1:D:1606:PRO:CD	1:D:1607:GLY:H	2.34	0.40
1:D:1629:LYS:O	1:D:1630:THR:O	2.39	0.40
1:D:1700:SER:CB	1:D:1702:GLU:OE2	2.70	0.40
2:E:87:CYS:O	2:E:88:LEU:C	2.60	0.40
2:E:126:TYR:O	2:E:127:ILE:C	2.60	0.40
2:E:168:ASP:O	2:E:169:TYR:HB2	2.21	0.40
2:E:433:VAL:HA	2:E:436:SER:HB3	2.02	0.40
2:E:653:UNK:O	2:E:656:UNK:N	2.55	0.40
2:E:737:UNK:O	2:E:739:UNK:N	2.54	0.40
2:E:961:UNK:O	2:E:962:UNK:CB	2.69	0.40
2:E:1724:GLU:O	2:E:1729:ILE:HA	2.21	0.40
2:E:1733:TYR:CE1	2:E:1760:THR:HG23	2.50	0.40
1:G:238:UNK:O	1:G:239:UNK:CB	2.69	0.40
1:G:786:SER:O	1:G:788:SER:N	2.54	0.40
1:G:794:ILE:HA	1:G:798:ASN:HD22	1.86	0.40
1:G:916:LEU:O	1:G:919:LYS:HB2	2.21	0.40
1:G:931:GLN:HG3	1:G:932:PHE:CD1	2.56	0.40
1:G:1041:ALA:CB	1:G:1042:PHE:CD1	3.05	0.40
1:G:1083:PRO:CG	1:G:1084:VAL:N	2.84	0.40
1:G:1109:GLU:HA	1:G:1109:GLU:OE1	2.21	0.40
1:G:1114:TYR:HD2	1:G:1115:ASN:HD21	1.69	0.40
1:G:1154:ILE:O	1:G:1155:PHE:CG	2.75	0.40
1:G:1196:LYS:C	1:G:1197:THR:HG22	2.42	0.40
1:G:1273:ASP:O	1:G:1273:ASP:CG	2.59	0.40
1:G:1349:THR:O	1:G:1375:GLY:HA3	2.21	0.40
1:G:1359:GLY:O	1:G:1360:ARG:C	2.60	0.40
1:G:1515:ARG:NH1	1:G:1515:ARG:HG2	2.36	0.40
2:H:1:MET:HB3	2:H:2:ASP:H	1.57	0.40
2:H:248:HIS:C	2:H:250:VAL:N	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:406:ARG:O	2:H:407:ILE:O	2.40	0.40
2:H:432:LEU:HD21	2:H:484:ILE:HG22	2.03	0.40
2:H:490:TRP:O	2:H:491:GLU:C	2.60	0.40
2:H:698:UNK:H	2:H:702:UNK:CB	2.34	0.40
2:H:1441:UNK:O	2:H:1443:UNK:N	2.54	0.40
2:H:1650:UNK:O	2:H:1652:UNK:N	2.54	0.40
2:H:1727:LYS:C	2:H:1729:ILE:H	2.25	0.40

All (38) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1150:ASP:OD1	1:D:1181:PHE:CE2[7_555]	1.80	0.40
1:A:1150:ASP:OD1	1:G:1181:PHE:CE2[7_555]	1.85	0.35
1:A:1181:PHE:CE2	1:G:1150:ASP:OD1[7_555]	1.85	0.35
1:A:1150:ASP:CG	1:G:1181:PHE:CE2[7_555]	1.87	0.33
1:D:1150:ASP:CG	1:D:1181:PHE:CE2[7_555]	1.87	0.33
1:A:1181:PHE:CE1	1:G:1150:ASP:CB[7_555]	1.88	0.32
1:A:1150:ASP:CB	1:G:1181:PHE:CE1[7_555]	1.89	0.31
1:A:1181:PHE:CE2	1:G:1150:ASP:CG[7_555]	1.89	0.31
1:D:1150:ASP:CG	1:D:1181:PHE:CD2[7_555]	1.89	0.31
1:A:1181:PHE:CZ	1:G:1150:ASP:CG[7_555]	1.91	0.29
1:A:1150:ASP:CG	1:G:1181:PHE:CZ[7_555]	1.92	0.28
1:D:1150:ASP:CG	1:D:1181:PHE:CZ[7_555]	1.96	0.24
1:A:1150:ASP:CB	1:G:1181:PHE:CZ[7_555]	1.97	0.23
1:A:1181:PHE:CE1	1:G:1150:ASP:CG[7_555]	1.97	0.23
1:D:1150:ASP:CB	1:D:1181:PHE:CE1[7_555]	1.97	0.23
1:D:1150:ASP:OD2	1:D:1181:PHE:CD1[7_555]	1.97	0.23
1:A:1150:ASP:CG	1:G:1181:PHE:CD2[7_555]	1.98	0.22
1:A:1181:PHE:CD2	1:G:1150:ASP:CG[7_555]	1.98	0.22
1:A:1181:PHE:CD1	1:G:1150:ASP:CB[7_555]	1.99	0.21
1:A:1150:ASP:CG	1:G:1181:PHE:CE1[7_555]	2.00	0.20
1:A:1181:PHE:CZ	1:G:1150:ASP:CB[7_555]	2.00	0.20
1:D:1150:ASP:CB	1:D:1181:PHE:CD1[7_555]	2.00	0.20
1:A:1150:ASP:CB	1:G:1181:PHE:CD1[7_555]	2.01	0.19
1:D:1150:ASP:CG	1:D:1181:PHE:CE1[7_555]	2.01	0.19
1:A:1181:PHE:CD1	1:G:1150:ASP:OD2[7_555]	2.02	0.18
1:A:1150:ASP:OD2	1:G:1181:PHE:CD1[7_555]	2.04	0.16
1:D:1150:ASP:CG	1:D:1181:PHE:CG[7_555]	2.05	0.15
1:D:1150:ASP:CG	1:D:1181:PHE:CD1[7_555]	2.05	0.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1181:PHE:CD1	1:G:1150:ASP:CG[7_555]	2.08	0.12
1:D:1150:ASP:CB	1:D:1181:PHE:CZ[7_555]	2.08	0.12
1:A:1150:ASP:CB	1:G:1181:PHE:CE2[7_555]	2.11	0.09
1:A:1150:ASP:CG	1:G:1181:PHE:CD1[7_555]	2.11	0.09
1:A:1181:PHE:CG	1:G:1150:ASP:CG[7_555]	2.13	0.07
1:A:1150:ASP:CG	1:G:1181:PHE:CG[7_555]	2.15	0.05
1:D:1150:ASP:CB	1:D:1181:PHE:CG[7_555]	2.15	0.05
1:A:1181:PHE:CE2	1:G:1150:ASP:CB[7_555]	2.16	0.04
1:D:1150:ASP:CB	1:D:1181:PHE:CE2[7_555]	2.16	0.04
1:D:1150:ASP:CB	1:D:1181:PHE:CD2[7_555]	2.18	0.02

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

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1069/1688 (63%)	401 (38%)	298 (28%)	370 (35%)	0	0
1	D	1069/1688 (63%)	396 (37%)	307 (29%)	366 (34%)	0	0
1	G	1069/1688 (63%)	398 (37%)	307 (29%)	364 (34%)	0	0
2	B	817/2006 (41%)	356 (44%)	245 (30%)	216 (26%)	0	1
2	E	817/2006 (41%)	357 (44%)	244 (30%)	216 (26%)	0	1
2	H	817/2006 (41%)	352 (43%)	247 (30%)	218 (27%)	0	0
All	All	5658/11082 (51%)	2260 (40%)	1648 (29%)	1750 (31%)	0	0

All (1750) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	683	ALA
1	A	723	ALA
1	A	724	LYS
1	A	741	SER
1	A	742	LYS

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Mol	Chain	Res	Type
1	A	772	ALA
1	A	776	GLU
1	A	782	GLU
1	A	785	ASP
1	A	787	LYS
1	A	797	THR
1	A	833	PHE
1	A	853	TRP
1	A	855	SER
1	A	865	CYS
1	A	867	ALA
1	A	869	ILE
1	A	871	TRP
1	A	873	ARG
1	A	877	LEU
1	A	878	MET
1	A	881	ASN
1	A	883	ILE
1	A	884	ILE
1	A	895	THR
1	A	897	SER
1	A	958	SER
1	A	985	ARG
1	A	987	ASN
1	A	991	ASP
1	A	993	PRO
1	A	995	LEU
1	A	999	LYS
1	A	1013	LEU
1	A	1015	LEU
1	A	1029	PRO
1	A	1034	ARG
1	A	1046	SER
1	A	1047	LEU
1	A	1059	PHE
1	A	1069	GLY
1	A	1071	PRO
1	A	1072	TYR
1	A	1075	TRP
1	A	1081	LYS
1	A	1082	GLU
1	A	1086	ASP

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Mol	Chain	Res	Type
1	A	1090	LYS
1	A	1091	ALA
1	A	1100	HIS
1	A	1105	LEU
1	A	1107	GLU
1	A	1108	PRO
1	A	1118	LYS
1	A	1131	LEU
1	A	1136	ALA
1	A	1139	GLU
1	A	1143	GLN
1	A	1158	PRO
1	A	1162	GLU
1	A	1169	LYS
1	A	1175	ILE
1	A	1179	LEU
1	A	1189	ILE
1	A	1190	PRO
1	A	1191	THR
1	A	1194	ASN
1	A	1197	THR
1	A	1209	ASP
1	A	1210	PRO
1	A	1212	THR
1	A	1233	GLU
1	A	1243	VAL
1	A	1246	CYS
1	A	1254	VAL
1	A	1255	SER
1	A	1264	ARG
1	A	1292	ILE
1	A	1312	VAL
1	A	1320	LEU
1	A	1332	TYR
1	A	1349	THR
1	A	1360	ARG
1	A	1361	THR
1	A	1364	GLU
1	A	1365	MET
1	A	1370	THR
1	A	1377	MET
1	A	1378	GLU

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Mol	Chain	Res	Type
1	A	1397	GLY
1	A	1408	ALA
1	A	1420	ALA
1	A	1423	LYS
1	A	1425	ILE
1	A	1426	LEU
1	A	1427	THR
1	A	1432	HIS
1	A	1435	SER
1	A	1437	LYS
1	A	1441	PRO
1	A	1446	LYS
1	A	1447	TYR
1	A	1453	VAL
1	A	1454	THR
1	A	1463	VAL
1	A	1474	ALA
1	A	1477	ILE
1	A	1513	TYR
1	A	1515	ARG
1	A	1519	ILE
1	A	1521	PRO
1	A	1531	LEU
1	A	1532	THR
1	A	1544	THR
1	A	1547	LYS
1	A	1551	LYS
1	A	1552	ASN
1	A	1555	ALA
1	A	1566	ARG
1	A	1572	VAL
1	A	1581	THR
1	A	1582	GLY
1	A	1600	LEU
1	A	1608	ASN
1	A	1611	ALA
1	A	1622	GLU
1	A	1624	VAL
1	A	1625	LEU
1	A	1627	PRO
1	A	1629	LYS
1	A	1630	THR

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Mol	Chain	Res	Type
1	A	1634	ASP
1	A	1637	ARG
1	A	1642	THR
1	A	1651	GLY
1	A	1666	THR
1	A	1674	VAL
1	A	1688	PHE
1	A	1702	GLU
1	A	1706	TYR
1	A	1708	ASP
1	A	1711	GLU
1	A	1721	ARG
1	A	1733	PHE
1	A	1738	ILE
1	A	1740	SER
2	B	19	VAL
2	B	32	GLN
2	B	49	ALA
2	B	69	SER
2	B	75	SER
2	B	77	VAL
2	B	126	TYR
2	B	133	ALA
2	B	135	ARG
2	B	137	PHE
2	B	143	SER
2	B	145	LEU
2	B	148	ALA
2	B	182	VAL
2	B	183	LEU
2	B	184	VAL
2	B	186	ASP
2	B	188	ILE
2	B	216	LEU
2	B	236	ILE
2	B	265	SER
2	B	281	VAL
2	B	336	SER
2	B	342	SER
2	B	354	ASN
2	B	384	GLN
2	B	385	SER

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Mol	Chain	Res	Type
2	B	407	ILE
2	B	408	PRO
2	B	417	SER
2	B	445	LYS
2	B	447	ASN
2	B	456	GLN
2	B	490	TRP
2	B	529	VAL
2	B	535	ILE
2	B	537	PRO
2	B	1672	GLN
2	B	1674	GLN
2	B	1677	GLY
2	B	1686	ALA
2	B	1688	GLN
2	B	1711	ILE
2	B	1715	VAL
2	B	1718	THR
2	B	1727	LYS
2	B	1734	SER
2	B	1746	LEU
2	B	1751	ILE
2	B	1752	PHE
2	B	1753	LYS
2	B	1757	GLU
2	B	1774	THR
2	B	1800	ALA
2	B	1818	LEU
2	B	1820	ASP
2	B	1825	GLU
2	B	1861	ARG
2	B	1897	GLN
2	B	1915	ASN
2	B	1918	LYS
2	B	1924	ILE
1	D	683	ALA
1	D	723	ALA
1	D	724	LYS
1	D	741	SER
1	D	742	LYS
1	D	772	ALA
1	D	775	PRO

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Mol	Chain	Res	Type
1	D	776	GLU
1	D	782	GLU
1	D	785	ASP
1	D	787	LYS
1	D	797	THR
1	D	833	PHE
1	D	865	CYS
1	D	867	ALA
1	D	869	ILE
1	D	871	TRP
1	D	873	ARG
1	D	877	LEU
1	D	878	MET
1	D	881	ASN
1	D	883	ILE
1	D	884	ILE
1	D	895	THR
1	D	897	SER
1	D	958	SER
1	D	985	ARG
1	D	987	ASN
1	D	991	ASP
1	D	993	PRO
1	D	995	LEU
1	D	999	LYS
1	D	1013	LEU
1	D	1015	LEU
1	D	1029	PRO
1	D	1034	ARG
1	D	1046	SER
1	D	1047	LEU
1	D	1059	PHE
1	D	1069	GLY
1	D	1071	PRO
1	D	1072	TYR
1	D	1075	TRP
1	D	1080	THR
1	D	1081	LYS
1	D	1082	GLU
1	D	1086	ASP
1	D	1091	ALA
1	D	1097	ILE

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Mol	Chain	Res	Type
1	D	1100	HIS
1	D	1104	ARG
1	D	1105	LEU
1	D	1107	GLU
1	D	1108	PRO
1	D	1118	LYS
1	D	1131	LEU
1	D	1136	ALA
1	D	1139	GLU
1	D	1143	GLN
1	D	1158	PRO
1	D	1162	GLU
1	D	1169	LYS
1	D	1175	ILE
1	D	1179	LEU
1	D	1189	ILE
1	D	1190	PRO
1	D	1191	THR
1	D	1194	ASN
1	D	1197	THR
1	D	1209	ASP
1	D	1210	PRO
1	D	1212	THR
1	D	1233	GLU
1	D	1243	VAL
1	D	1246	CYS
1	D	1254	VAL
1	D	1255	SER
1	D	1264	ARG
1	D	1268	GLU
1	D	1292	ILE
1	D	1312	VAL
1	D	1320	LEU
1	D	1332	TYR
1	D	1349	THR
1	D	1360	ARG
1	D	1361	THR
1	D	1364	GLU
1	D	1365	MET
1	D	1370	THR
1	D	1377	MET
1	D	1378	GLU

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Mol	Chain	Res	Type
1	D	1397	GLY
1	D	1408	ALA
1	D	1420	ALA
1	D	1423	LYS
1	D	1425	ILE
1	D	1426	LEU
1	D	1427	THR
1	D	1432	HIS
1	D	1435	SER
1	D	1437	LYS
1	D	1441	PRO
1	D	1446	LYS
1	D	1447	TYR
1	D	1453	VAL
1	D	1454	THR
1	D	1463	VAL
1	D	1474	ALA
1	D	1477	ILE
1	D	1513	TYR
1	D	1515	ARG
1	D	1519	ILE
1	D	1521	PRO
1	D	1529	TYR
1	D	1531	LEU
1	D	1532	THR
1	D	1544	THR
1	D	1547	LYS
1	D	1551	LYS
1	D	1552	ASN
1	D	1553	GLU
1	D	1555	ALA
1	D	1566	ARG
1	D	1572	VAL
1	D	1581	THR
1	D	1582	GLY
1	D	1600	LEU
1	D	1608	ASN
1	D	1611	ALA
1	D	1622	GLU
1	D	1624	VAL
1	D	1625	LEU
1	D	1627	PRO

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Mol	Chain	Res	Type
1	D	1629	LYS
1	D	1630	THR
1	D	1634	ASP
1	D	1636	VAL
1	D	1637	ARG
1	D	1642	THR
1	D	1651	GLY
1	D	1666	THR
1	D	1674	VAL
1	D	1688	PHE
1	D	1702	GLU
1	D	1706	TYR
1	D	1708	ASP
1	D	1711	GLU
1	D	1721	ARG
1	D	1733	PHE
1	D	1738	ILE
1	D	1740	SER
2	E	19	VAL
2	E	32	GLN
2	E	49	ALA
2	E	69	SER
2	E	75	SER
2	E	77	VAL
2	E	126	TYR
2	E	133	ALA
2	E	135	ARG
2	E	137	PHE
2	E	143	SER
2	E	145	LEU
2	E	148	ALA
2	E	182	VAL
2	E	183	LEU
2	E	184	VAL
2	E	186	ASP
2	E	188	ILE
2	E	216	LEU
2	E	236	ILE
2	E	281	VAL
2	E	336	SER
2	E	342	SER
2	E	354	ASN

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Mol	Chain	Res	Type
2	E	384	GLN
2	E	385	SER
2	E	407	ILE
2	E	408	PRO
2	E	417	SER
2	E	445	LYS
2	E	447	ASN
2	E	456	GLN
2	E	490	TRP
2	E	529	VAL
2	E	535	ILE
2	E	537	PRO
2	E	1672	GLN
2	E	1674	GLN
2	E	1677	GLY
2	E	1686	ALA
2	E	1688	GLN
2	E	1711	ILE
2	E	1715	VAL
2	E	1718	THR
2	E	1727	LYS
2	E	1734	SER
2	E	1746	LEU
2	E	1751	ILE
2	E	1752	PHE
2	E	1753	LYS
2	E	1757	GLU
2	E	1774	THR
2	E	1800	ALA
2	E	1818	LEU
2	E	1820	ASP
2	E	1825	GLU
2	E	1861	ARG
2	E	1897	GLN
2	E	1915	ASN
2	E	1918	LYS
2	E	1924	ILE
1	G	683	ALA
1	G	723	ALA
1	G	724	LYS
1	G	741	SER
1	G	742	LYS

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Mol	Chain	Res	Type
1	G	772	ALA
1	G	775	PRO
1	G	776	GLU
1	G	782	GLU
1	G	785	ASP
1	G	787	LYS
1	G	797	THR
1	G	833	PHE
1	G	853	TRP
1	G	855	SER
1	G	867	ALA
1	G	869	ILE
1	G	871	TRP
1	G	873	ARG
1	G	877	LEU
1	G	878	MET
1	G	881	ASN
1	G	883	ILE
1	G	884	ILE
1	G	895	THR
1	G	897	SER
1	G	958	SER
1	G	985	ARG
1	G	987	ASN
1	G	991	ASP
1	G	993	PRO
1	G	995	LEU
1	G	999	LYS
1	G	1013	LEU
1	G	1015	LEU
1	G	1029	PRO
1	G	1034	ARG
1	G	1046	SER
1	G	1047	LEU
1	G	1059	PHE
1	G	1069	GLY
1	G	1071	PRO
1	G	1072	TYR
1	G	1075	TRP
1	G	1081	LYS
1	G	1082	GLU
1	G	1086	ASP

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Mol	Chain	Res	Type
1	G	1090	LYS
1	G	1091	ALA
1	G	1100	HIS
1	G	1104	ARG
1	G	1105	LEU
1	G	1107	GLU
1	G	1108	PRO
1	G	1118	LYS
1	G	1131	LEU
1	G	1136	ALA
1	G	1139	GLU
1	G	1143	GLN
1	G	1158	PRO
1	G	1162	GLU
1	G	1169	LYS
1	G	1175	ILE
1	G	1179	LEU
1	G	1189	ILE
1	G	1190	PRO
1	G	1191	THR
1	G	1194	ASN
1	G	1197	THR
1	G	1209	ASP
1	G	1210	PRO
1	G	1212	THR
1	G	1233	GLU
1	G	1243	VAL
1	G	1246	CYS
1	G	1254	VAL
1	G	1255	SER
1	G	1264	ARG
1	G	1268	GLU
1	G	1292	ILE
1	G	1320	LEU
1	G	1332	TYR
1	G	1349	THR
1	G	1360	ARG
1	G	1361	THR
1	G	1364	GLU
1	G	1365	MET
1	G	1370	THR
1	G	1377	MET

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Mol	Chain	Res	Type
1	G	1378	GLU
1	G	1397	GLY
1	G	1408	ALA
1	G	1420	ALA
1	G	1423	LYS
1	G	1425	ILE
1	G	1426	LEU
1	G	1427	THR
1	G	1432	HIS
1	G	1435	SER
1	G	1437	LYS
1	G	1441	PRO
1	G	1446	LYS
1	G	1447	TYR
1	G	1453	VAL
1	G	1454	THR
1	G	1463	VAL
1	G	1474	ALA
1	G	1477	ILE
1	G	1513	TYR
1	G	1515	ARG
1	G	1519	ILE
1	G	1521	PRO
1	G	1531	LEU
1	G	1532	THR
1	G	1544	THR
1	G	1547	LYS
1	G	1551	LYS
1	G	1552	ASN
1	G	1553	GLU
1	G	1555	ALA
1	G	1566	ARG
1	G	1572	VAL
1	G	1581	THR
1	G	1582	GLY
1	G	1600	LEU
1	G	1608	ASN
1	G	1611	ALA
1	G	1622	GLU
1	G	1624	VAL
1	G	1625	LEU
1	G	1627	PRO

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Mol	Chain	Res	Type
1	G	1629	LYS
1	G	1630	THR
1	G	1634	ASP
1	G	1637	ARG
1	G	1642	THR
1	G	1651	GLY
1	G	1666	THR
1	G	1674	VAL
1	G	1688	PHE
1	G	1702	GLU
1	G	1706	TYR
1	G	1708	ASP
1	G	1711	GLU
1	G	1721	ARG
1	G	1733	PHE
1	G	1738	ILE
1	G	1740	SER
2	H	19	VAL
2	H	32	GLN
2	H	49	ALA
2	H	69	SER
2	H	75	SER
2	H	77	VAL
2	H	126	TYR
2	H	133	ALA
2	H	135	ARG
2	H	137	PHE
2	H	143	SER
2	H	145	LEU
2	H	148	ALA
2	H	182	VAL
2	H	183	LEU
2	H	184	VAL
2	H	186	ASP
2	H	188	ILE
2	H	216	LEU
2	H	236	ILE
2	H	265	SER
2	H	281	VAL
2	H	336	SER
2	H	354	ASN
2	H	384	GLN

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Mol	Chain	Res	Type
2	H	385	SER
2	H	407	ILE
2	H	408	PRO
2	H	417	SER
2	H	445	LYS
2	H	447	ASN
2	H	456	GLN
2	H	471	LEU
2	H	490	TRP
2	H	529	VAL
2	H	535	ILE
2	H	537	PRO
2	H	1672	GLN
2	H	1674	GLN
2	H	1677	GLY
2	H	1686	ALA
2	H	1688	GLN
2	H	1711	ILE
2	H	1715	VAL
2	H	1718	THR
2	H	1727	LYS
2	H	1734	SER
2	H	1746	LEU
2	H	1751	ILE
2	H	1752	PHE
2	H	1753	LYS
2	H	1757	GLU
2	H	1774	THR
2	H	1800	ALA
2	H	1818	LEU
2	H	1820	ASP
2	H	1825	GLU
2	H	1861	ARG
2	H	1897	GLN
2	H	1915	ASN
2	H	1918	LYS
2	H	1924	ILE
1	A	671	VAL
1	A	674	LYS
1	A	677	TYR
1	A	688	ILE
1	A	696	LEU

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Mol	Chain	Res	Type
1	A	701	ALA
1	A	728	LYS
1	A	743	GLN
1	A	775	PRO
1	A	792	HIS
1	A	832	THR
1	A	858	TRP
1	A	866	GLY
1	A	882	ASN
1	A	900	GLU
1	A	931	GLN
1	A	936	LEU
1	A	937	LYS
1	A	941	ALA
1	A	969	ASN
1	A	972	SER
1	A	973	ALA
1	A	1004	ILE
1	A	1062	TYR
1	A	1076	VAL
1	A	1080	THR
1	A	1083	PRO
1	A	1084	VAL
1	A	1097	ILE
1	A	1098	LEU
1	A	1104	ARG
1	A	1130	ASP
1	A	1133	PRO
1	A	1149	GLY
1	A	1152	VAL
1	A	1164	SER
1	A	1178	ALA
1	A	1185	VAL
1	A	1195	ALA
1	A	1198	TYR
1	A	1203	ASP
1	A	1206	SER
1	A	1227	GLY
1	A	1240	VAL
1	A	1245	ASN
1	A	1249	SER
1	A	1252	GLY

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Mol	Chain	Res	Type
1	A	1266	LYS
1	A	1268	GLU
1	A	1274	ILE
1	A	1287	VAL
1	A	1302	VAL
1	A	1304	ALA
1	A	1307	THR
1	A	1324	ALA
1	A	1329	VAL
1	A	1339	GLY
1	A	1350	SER
1	A	1376	PHE
1	A	1380	GLN
1	A	1382	ALA
1	A	1421	PRO
1	A	1442	ASN
1	A	1457	ALA
1	A	1462	TRP
1	A	1475	GLU
1	A	1478	PRO
1	A	1479	SER
1	A	1497	ALA
1	A	1529	TYR
1	A	1530	GLY
1	A	1533	ILE
1	A	1538	VAL
1	A	1543	GLY
1	A	1553	GLU
1	A	1576	PHE
1	A	1587	ALA
1	A	1615	ASP
1	A	1636	VAL
1	A	1639	VAL
1	A	1641	ILE
1	A	1665	ILE
1	A	1668	ASP
1	A	1670	TYR
1	A	1689	HIS
1	A	1700	SER
1	A	1720	ALA
1	A	1727	LYS
1	A	1729	GLY

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Mol	Chain	Res	Type
1	A	1741	LYS
1	A	1742	ASP
1	A	1744	TYR
2	B	5	SER
2	B	12	SER
2	B	45	THR
2	B	59	GLU
2	B	72	VAL
2	B	127	ILE
2	B	198	LEU
2	B	204	ASP
2	B	215	ILE
2	B	218	TRP
2	B	229	ASP
2	B	254	LYS
2	B	266	TYR
2	B	268	LYS
2	B	298	LYS
2	B	302	VAL
2	B	316	ASN
2	B	355	LYS
2	B	396	ALA
2	B	402	LEU
2	B	409	PHE
2	B	410	SER
2	B	455	ILE
2	B	467	ASP
2	B	471	LEU
2	B	479	ILE
2	B	485	ARG
2	B	487	PRO
2	B	506	PRO
2	B	508	GLY
2	B	526	ARG
2	B	533	LEU
2	B	540	ASP
2	B	542	GLY
2	B	1703	GLY
2	B	1704	PHE
2	B	1731	GLU
2	B	1738	PHE
2	B	1756	ASN

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Mol	Chain	Res	Type
2	B	1758	HIS
2	B	1759	SER
2	B	1765	ARG
2	B	1817	SER
2	B	1835	GLY
2	B	1845	ASP
2	B	1849	ARG
2	B	1862	VAL
2	B	1878	VAL
2	B	1883	GLY
2	B	1917	ILE
2	B	1921	LYS
2	B	1939	HIS
1	D	671	VAL
1	D	674	LYS
1	D	677	TYR
1	D	688	ILE
1	D	701	ALA
1	D	728	LYS
1	D	743	GLN
1	D	784	ILE
1	D	792	HIS
1	D	811	SER
1	D	832	THR
1	D	853	TRP
1	D	855	SER
1	D	858	TRP
1	D	866	GLY
1	D	882	ASN
1	D	900	GLU
1	D	931	GLN
1	D	936	LEU
1	D	937	LYS
1	D	941	ALA
1	D	969	ASN
1	D	972	SER
1	D	973	ALA
1	D	1004	ILE
1	D	1062	TYR
1	D	1076	VAL
1	D	1083	PRO
1	D	1084	VAL

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Mol	Chain	Res	Type
1	D	1090	LYS
1	D	1093	TYR
1	D	1098	LEU
1	D	1133	PRO
1	D	1149	GLY
1	D	1152	VAL
1	D	1164	SER
1	D	1178	ALA
1	D	1185	VAL
1	D	1195	ALA
1	D	1198	TYR
1	D	1203	ASP
1	D	1206	SER
1	D	1227	GLY
1	D	1240	VAL
1	D	1249	SER
1	D	1252	GLY
1	D	1266	LYS
1	D	1274	ILE
1	D	1287	VAL
1	D	1302	VAL
1	D	1304	ALA
1	D	1307	THR
1	D	1324	ALA
1	D	1329	VAL
1	D	1339	GLY
1	D	1350	SER
1	D	1369	ALA
1	D	1376	PHE
1	D	1380	GLN
1	D	1382	ALA
1	D	1421	PRO
1	D	1433	HIS
1	D	1442	ASN
1	D	1457	ALA
1	D	1462	TRP
1	D	1475	GLU
1	D	1478	PRO
1	D	1479	SER
1	D	1497	ALA
1	D	1530	GLY
1	D	1533	ILE

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Mol	Chain	Res	Type
1	D	1538	VAL
1	D	1543	GLY
1	D	1576	PHE
1	D	1587	ALA
1	D	1615	ASP
1	D	1639	VAL
1	D	1641	ILE
1	D	1665	ILE
1	D	1668	ASP
1	D	1670	TYR
1	D	1689	HIS
1	D	1700	SER
1	D	1720	ALA
1	D	1727	LYS
1	D	1729	GLY
1	D	1741	LYS
1	D	1742	ASP
1	D	1744	TYR
2	E	5	SER
2	E	12	SER
2	E	45	THR
2	E	59	GLU
2	E	72	VAL
2	E	127	ILE
2	E	165	ASN
2	E	198	LEU
2	E	204	ASP
2	E	215	ILE
2	E	218	TRP
2	E	229	ASP
2	E	254	LYS
2	E	265	SER
2	E	266	TYR
2	E	268	LYS
2	E	298	LYS
2	E	302	VAL
2	E	316	ASN
2	E	355	LYS
2	E	396	ALA
2	E	402	LEU
2	E	409	PHE
2	E	410	SER

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Mol	Chain	Res	Type
2	E	455	ILE
2	E	467	ASP
2	E	471	LEU
2	E	479	ILE
2	E	485	ARG
2	E	487	PRO
2	E	489	LYS
2	E	506	PRO
2	E	508	GLY
2	E	526	ARG
2	E	533	LEU
2	E	542	GLY
2	E	1703	GLY
2	E	1704	PHE
2	E	1731	GLU
2	E	1738	PHE
2	E	1756	ASN
2	E	1758	HIS
2	E	1759	SER
2	E	1765	ARG
2	E	1810	GLY
2	E	1817	SER
2	E	1835	GLY
2	E	1845	ASP
2	E	1849	ARG
2	E	1862	VAL
2	E	1878	VAL
2	E	1883	GLY
2	E	1917	ILE
2	E	1939	HIS
1	G	671	VAL
1	G	674	LYS
1	G	677	TYR
1	G	688	ILE
1	G	696	LEU
1	G	701	ALA
1	G	728	LYS
1	G	743	GLN
1	G	792	HIS
1	G	811	SER
1	G	832	THR
1	G	846	LEU

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Mol	Chain	Res	Type
1	G	858	TRP
1	G	865	CYS
1	G	866	GLY
1	G	882	ASN
1	G	900	GLU
1	G	931	GLN
1	G	936	LEU
1	G	937	LYS
1	G	941	ALA
1	G	972	SER
1	G	973	ALA
1	G	1004	ILE
1	G	1062	TYR
1	G	1076	VAL
1	G	1080	THR
1	G	1083	PRO
1	G	1084	VAL
1	G	1097	ILE
1	G	1098	LEU
1	G	1130	ASP
1	G	1133	PRO
1	G	1149	GLY
1	G	1152	VAL
1	G	1164	SER
1	G	1178	ALA
1	G	1185	VAL
1	G	1195	ALA
1	G	1198	TYR
1	G	1203	ASP
1	G	1206	SER
1	G	1227	GLY
1	G	1240	VAL
1	G	1249	SER
1	G	1252	GLY
1	G	1266	LYS
1	G	1274	ILE
1	G	1287	VAL
1	G	1302	VAL
1	G	1304	ALA
1	G	1307	THR
1	G	1312	VAL
1	G	1324	ALA

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Mol	Chain	Res	Type
1	G	1329	VAL
1	G	1339	GLY
1	G	1350	SER
1	G	1369	ALA
1	G	1376	PHE
1	G	1380	GLN
1	G	1382	ALA
1	G	1421	PRO
1	G	1433	HIS
1	G	1442	ASN
1	G	1457	ALA
1	G	1462	TRP
1	G	1475	GLU
1	G	1478	PRO
1	G	1479	SER
1	G	1497	ALA
1	G	1529	TYR
1	G	1530	GLY
1	G	1533	ILE
1	G	1538	VAL
1	G	1543	GLY
1	G	1576	PHE
1	G	1587	ALA
1	G	1615	ASP
1	G	1636	VAL
1	G	1639	VAL
1	G	1641	ILE
1	G	1665	ILE
1	G	1668	ASP
1	G	1670	TYR
1	G	1689	HIS
1	G	1700	SER
1	G	1720	ALA
1	G	1727	LYS
1	G	1729	GLY
1	G	1741	LYS
1	G	1742	ASP
1	G	1744	TYR
2	H	5	SER
2	H	12	SER
2	H	45	THR
2	H	59	GLU

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Mol	Chain	Res	Type
2	H	72	VAL
2	H	127	ILE
2	H	165	ASN
2	H	198	LEU
2	H	204	ASP
2	H	215	ILE
2	H	218	TRP
2	H	229	ASP
2	H	254	LYS
2	H	266	TYR
2	H	268	LYS
2	H	298	LYS
2	H	302	VAL
2	H	316	ASN
2	H	342	SER
2	H	355	LYS
2	H	396	ALA
2	H	402	LEU
2	H	409	PHE
2	H	410	SER
2	H	455	ILE
2	H	467	ASP
2	H	479	ILE
2	H	485	ARG
2	H	487	PRO
2	H	506	PRO
2	H	508	GLY
2	H	526	ARG
2	H	533	LEU
2	H	542	GLY
2	H	1675	GLY
2	H	1703	GLY
2	H	1704	PHE
2	H	1731	GLU
2	H	1738	PHE
2	H	1756	ASN
2	H	1758	HIS
2	H	1759	SER
2	H	1765	ARG
2	H	1817	SER
2	H	1845	ASP
2	H	1849	ARG

Continued on next page...

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Mol	Chain	Res	Type
2	H	1862	VAL
2	H	1878	VAL
2	H	1883	GLY
2	H	1917	ILE
2	H	1939	HIS
1	A	710	PHE
1	A	718	TYR
1	A	722	TYR
1	A	746	GLU
1	A	765	LEU
1	A	784	ILE
1	A	791	ALA
1	A	811	SER
1	A	857	SER
1	A	894	ARG
1	A	904	ASN
1	A	908	LEU
1	A	929	GLY
1	A	938	GLU
1	A	974	ASP
1	A	988	ILE
1	A	1048	GLU
1	A	1056	ILE
1	A	1057	MET
1	A	1093	TYR
1	A	1096	SER
1	A	1112	ASN
1	A	1142	GLU
1	A	1147	GLN
1	A	1165	VAL
1	A	1171	ALA
1	A	1173	LEU
1	A	1241	SER
1	A	1247	SER
1	A	1269	PRO
1	A	1289	MET
1	A	1301	PRO
1	A	1340	SER
1	A	1358	HIS
1	A	1369	ALA
1	A	1389	GLN
1	A	1390	ALA

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Mol	Chain	Res	Type
1	A	1392	LEU
1	A	1396	MET
1	A	1398	VAL
1	A	1433	HIS
1	A	1443	LEU
1	A	1445	MET
1	A	1456	GLU
1	A	1514	LYS
1	A	1556	THR
1	A	1563	HIS
1	A	1613	ASN
1	A	1673	TYR
1	A	1690	ASN
1	A	1704	ALA
1	A	1705	PRO
1	A	1719	LEU
1	A	1730	SER
2	B	15	SER
2	B	43	GLU
2	B	58	ALA
2	B	78	GLY
2	B	79	GLN
2	B	99	ASN
2	B	165	ASN
2	B	170	PHE
2	B	194	THR
2	B	203	LEU
2	B	226	PRO
2	B	239	PRO
2	B	256	LEU
2	B	282	ALA
2	B	322	SER
2	B	391	LEU
2	B	433	VAL
2	B	489	LYS
2	B	1675	GLY
2	B	1681	TYR
2	B	1719	ILE
2	B	1721	PHE
2	B	1724	GLU
2	B	1729	ILE
2	B	1733	TYR

Continued on next page...

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Mol	Chain	Res	Type
2	B	1790	GLU
2	B	1792	LEU
2	B	1807	HIS
2	B	1810	GLY
2	B	1813	ALA
2	B	1814	ALA
2	B	1819	ALA
2	B	1826	SER
2	B	1838	MET
2	B	1846	GLU
2	B	1863	ALA
2	B	1890	ASN
2	B	1894	GLU
2	B	1904	LEU
2	B	1928	GLN
1	D	696	LEU
1	D	710	PHE
1	D	718	TYR
1	D	722	TYR
1	D	746	GLU
1	D	751	PHE
1	D	765	LEU
1	D	791	ALA
1	D	823	ILE
1	D	846	LEU
1	D	857	SER
1	D	894	ARG
1	D	904	ASN
1	D	908	LEU
1	D	911	PRO
1	D	929	GLY
1	D	938	GLU
1	D	971	ASN
1	D	974	ASP
1	D	988	ILE
1	D	1048	GLU
1	D	1096	SER
1	D	1112	ASN
1	D	1130	ASP
1	D	1142	GLU
1	D	1147	GLN
1	D	1165	VAL

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Mol	Chain	Res	Type
1	D	1173	LEU
1	D	1245	ASN
1	D	1269	PRO
1	D	1289	MET
1	D	1301	PRO
1	D	1340	SER
1	D	1358	HIS
1	D	1371	THR
1	D	1389	GLN
1	D	1392	LEU
1	D	1396	MET
1	D	1398	VAL
1	D	1443	LEU
1	D	1445	MET
1	D	1456	GLU
1	D	1514	LYS
1	D	1556	THR
1	D	1563	HIS
1	D	1613	ASN
1	D	1673	TYR
1	D	1704	ALA
1	D	1705	PRO
1	D	1719	LEU
1	D	1730	SER
2	E	15	SER
2	E	43	GLU
2	E	58	ALA
2	E	78	GLY
2	E	79	GLN
2	E	99	ASN
2	E	194	THR
2	E	203	LEU
2	E	226	PRO
2	E	239	PRO
2	E	282	ALA
2	E	322	SER
2	E	391	LEU
2	E	433	VAL
2	E	465	GLY
2	E	524	GLY
2	E	540	ASP
2	E	1675	GLY

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Mol	Chain	Res	Type
2	E	1681	TYR
2	E	1719	ILE
2	E	1721	PHE
2	E	1724	GLU
2	E	1729	ILE
2	E	1733	TYR
2	E	1790	GLU
2	E	1792	LEU
2	E	1807	HIS
2	E	1813	ALA
2	E	1814	ALA
2	E	1819	ALA
2	E	1826	SER
2	E	1838	MET
2	E	1846	GLU
2	E	1854	MET
2	E	1863	ALA
2	E	1872	GLN
2	E	1890	ASN
2	E	1894	GLU
2	E	1904	LEU
2	E	1921	LYS
2	E	1928	GLN
1	G	710	PHE
1	G	718	TYR
1	G	722	TYR
1	G	746	GLU
1	G	751	PHE
1	G	765	LEU
1	G	784	ILE
1	G	791	ALA
1	G	857	SER
1	G	894	ARG
1	G	904	ASN
1	G	908	LEU
1	G	911	PRO
1	G	938	GLU
1	G	969	ASN
1	G	974	ASP
1	G	988	ILE
1	G	1048	GLU
1	G	1093	TYR

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Mol	Chain	Res	Type
1	G	1096	SER
1	G	1112	ASN
1	G	1142	GLU
1	G	1147	GLN
1	G	1165	VAL
1	G	1171	ALA
1	G	1173	LEU
1	G	1245	ASN
1	G	1269	PRO
1	G	1289	MET
1	G	1301	PRO
1	G	1340	SER
1	G	1358	HIS
1	G	1371	THR
1	G	1389	GLN
1	G	1390	ALA
1	G	1392	LEU
1	G	1396	MET
1	G	1398	VAL
1	G	1443	LEU
1	G	1445	MET
1	G	1456	GLU
1	G	1514	LYS
1	G	1526	LEU
1	G	1556	THR
1	G	1563	HIS
1	G	1613	ASN
1	G	1673	TYR
1	G	1704	ALA
1	G	1705	PRO
1	G	1719	LEU
1	G	1730	SER
2	H	15	SER
2	H	43	GLU
2	H	58	ALA
2	H	78	GLY
2	H	79	GLN
2	H	99	ASN
2	H	194	THR
2	H	203	LEU
2	H	226	PRO
2	H	239	PRO

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Mol	Chain	Res	Type
2	H	282	ALA
2	H	322	SER
2	H	391	LEU
2	H	433	VAL
2	H	489	LYS
2	H	540	ASP
2	H	1681	TYR
2	H	1721	PHE
2	H	1724	GLU
2	H	1728	ARG
2	H	1729	ILE
2	H	1733	TYR
2	H	1790	GLU
2	H	1792	LEU
2	H	1807	HIS
2	H	1810	GLY
2	H	1813	ALA
2	H	1814	ALA
2	H	1819	ALA
2	H	1821	VAL
2	H	1826	SER
2	H	1835	GLY
2	H	1838	MET
2	H	1846	GLU
2	H	1854	MET
2	H	1863	ALA
2	H	1872	GLN
2	H	1890	ASN
2	H	1894	GLU
2	H	1904	LEU
2	H	1921	LYS
2	H	1928	GLN
1	A	751	PHE
1	A	773	ALA
1	A	818	ARG
1	A	823	ILE
1	A	846	LEU
1	A	885	ALA
1	A	891	MET
1	A	911	PRO
1	A	968	VAL
1	A	971	ASN

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Mol	Chain	Res	Type
1	A	1032	SER
1	A	1033	ALA
1	A	1064	ASN
1	A	1156	GLU
1	A	1267	ASP
1	A	1300	THR
1	A	1371	THR
1	A	1458	GLN
1	A	1467	LEU
1	A	1498	GLU
1	A	1508	TRP
1	A	1526	LEU
1	A	1596	ALA
1	A	1658	PRO
2	B	2	ASP
2	B	16	LEU
2	B	52	ASP
2	B	92	GLU
2	B	107	LYS
2	B	111	GLU
2	B	139	LYS
2	B	187	LEU
2	B	190	PHE
2	B	253	ALA
2	B	267	LEU
2	B	318	SER
2	B	325	GLU
2	B	338	MET
2	B	351	ASP
2	B	465	GLY
2	B	495	GLN
2	B	512	LEU
2	B	524	GLY
2	B	1669	GLN
2	B	1676	MET
2	B	1728	ARG
2	B	1769	GLY
2	B	1808	SER
2	B	1821	VAL
2	B	1854	MET
2	B	1865	SER
2	B	1872	GLN

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Mol	Chain	Res	Type
2	B	1880	LYS
2	B	1898	TYR
2	B	1925	ILE
2	B	1926	GLU
1	D	773	ALA
1	D	818	ARG
1	D	885	ALA
1	D	891	MET
1	D	968	VAL
1	D	1032	SER
1	D	1056	ILE
1	D	1057	MET
1	D	1064	ASN
1	D	1156	GLU
1	D	1168	LEU
1	D	1171	ALA
1	D	1241	SER
1	D	1247	SER
1	D	1300	THR
1	D	1354	GLU
1	D	1390	ALA
1	D	1458	GLN
1	D	1467	LEU
1	D	1488	GLU
1	D	1498	GLU
1	D	1508	TRP
1	D	1526	LEU
1	D	1590	ALA
1	D	1596	ALA
1	D	1617	ILE
1	D	1658	PRO
1	D	1690	ASN
2	E	2	ASP
2	E	16	LEU
2	E	52	ASP
2	E	92	GLU
2	E	107	LYS
2	E	111	GLU
2	E	139	LYS
2	E	170	PHE
2	E	187	LEU
2	E	190	PHE

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Mol	Chain	Res	Type
2	E	253	ALA
2	E	256	LEU
2	E	267	LEU
2	E	325	GLU
2	E	338	MET
2	E	351	ASP
2	E	495	GLN
2	E	512	LEU
2	E	1676	MET
2	E	1728	ARG
2	E	1769	GLY
2	E	1771	LEU
2	E	1808	SER
2	E	1821	VAL
2	E	1880	LYS
2	E	1898	TYR
2	E	1925	ILE
2	E	1926	GLU
1	G	744	ASP
1	G	773	ALA
1	G	818	ARG
1	G	885	ALA
1	G	891	MET
1	G	929	GLY
1	G	971	ASN
1	G	1032	SER
1	G	1033	ALA
1	G	1056	ILE
1	G	1057	MET
1	G	1064	ASN
1	G	1156	GLU
1	G	1168	LEU
1	G	1241	SER
1	G	1247	SER
1	G	1300	THR
1	G	1458	GLN
1	G	1467	LEU
1	G	1488	GLU
1	G	1498	GLU
1	G	1508	TRP
1	G	1596	ALA
1	G	1687	PHE

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Mol	Chain	Res	Type
1	G	1690	ASN
2	H	2	ASP
2	H	16	LEU
2	H	52	ASP
2	H	107	LYS
2	H	111	GLU
2	H	139	LYS
2	H	170	PHE
2	H	187	LEU
2	H	190	PHE
2	H	253	ALA
2	H	256	LEU
2	H	325	GLU
2	H	338	MET
2	H	351	ASP
2	H	465	GLY
2	H	495	GLN
2	H	512	LEU
2	H	1676	MET
2	H	1719	ILE
2	H	1769	GLY
2	H	1771	LEU
2	H	1808	SER
2	H	1880	LYS
2	H	1898	TYR
2	H	1925	ILE
2	H	1926	GLU
1	A	744	ASP
1	A	745	VAL
1	A	790	PHE
1	A	812	ALA
1	A	912	GLU
1	A	930	LEU
1	A	962	ALA
1	A	978	ALA
1	A	1009	LEU
1	A	1168	LEU
1	A	1354	GLU
1	A	1488	GLU
1	A	1539	ALA
1	A	1590	ALA
1	A	1687	PHE

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Mol	Chain	Res	Type
2	B	13	HIS
2	B	31	SER
2	B	41	LEU
2	B	192	ALA
2	B	240	LEU
2	B	304	PHE
2	B	334	VAL
2	B	343	ASN
2	B	448	VAL
2	B	518	ARG
2	B	522	GLY
2	B	1692	ASN
2	B	1698	PHE
2	B	1730	ARG
2	B	1771	LEU
2	B	1772	SER
2	B	1848	GLY
1	D	744	ASP
1	D	745	VAL
1	D	790	PHE
1	D	812	ALA
1	D	835	GLY
1	D	912	GLU
1	D	930	LEU
1	D	962	ALA
1	D	978	ALA
1	D	1009	LEU
1	D	1033	ALA
1	D	1141	ALA
1	D	1267	ASP
1	D	1539	ALA
1	D	1633	THR
1	D	1687	PHE
1	D	1739	GLN
2	E	13	HIS
2	E	41	LEU
2	E	100	ASP
2	E	217	GLU
2	E	240	LEU
2	E	318	SER
2	E	334	VAL
2	E	343	ASN

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Mol	Chain	Res	Type
2	E	448	VAL
2	E	494	THR
2	E	522	GLY
2	E	1670	GLY
2	E	1692	ASN
2	E	1730	ARG
2	E	1772	SER
2	E	1848	GLY
2	E	1865	SER
1	G	745	VAL
1	G	750	GLU
1	G	790	PHE
1	G	823	ILE
1	G	896	PHE
1	G	912	GLU
1	G	928	GLY
1	G	930	LEU
1	G	962	ALA
1	G	968	VAL
1	G	978	ALA
1	G	1009	LEU
1	G	1248	GLY
1	G	1267	ASP
1	G	1354	GLU
1	G	1534	ASP
1	G	1539	ALA
1	G	1617	ILE
1	G	1633	THR
1	G	1658	PRO
1	G	1712	GLU
1	G	1739	GLN
2	H	13	HIS
2	H	31	SER
2	H	41	LEU
2	H	92	GLU
2	H	192	ALA
2	H	217	GLU
2	H	267	LEU
2	H	318	SER
2	H	334	VAL
2	H	343	ASN
2	H	448	VAL

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Mol	Chain	Res	Type
2	H	522	GLY
2	H	524	GLY
2	H	1669	GLN
2	H	1670	GLY
2	H	1698	PHE
2	H	1730	ARG
2	H	1772	SER
2	H	1796	GLY
2	H	1848	GLY
2	H	1865	SER
1	A	739	GLN
1	A	750	GLU
1	A	815	ILE
1	A	835	GLY
1	A	840	SER
1	A	880	ALA
1	A	887	GLY
1	A	896	PHE
1	A	928	GLY
1	A	957	VAL
1	A	1177	LYS
1	A	1208	VAL
1	A	1231	PRO
1	A	1322	GLY
1	A	1326	ILE
1	A	1512	PHE
1	A	1520	ALA
1	A	1534	ASP
1	A	1559	GLU
1	A	1605	ILE
1	A	1617	ILE
1	A	1640	SER
1	A	1739	GLN
2	B	100	ASP
2	B	426	PRO
2	B	494	THR
2	B	1670	GLY
2	B	1763	THR
2	B	1796	GLY
1	D	750	GLU
1	D	815	ILE
1	D	880	ALA

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Mol	Chain	Res	Type
1	D	896	PHE
1	D	928	GLY
1	D	1035	THR
1	D	1208	VAL
1	D	1313	ASP
1	D	1322	GLY
1	D	1520	ALA
1	D	1605	ILE
2	E	31	SER
2	E	192	ALA
2	E	244	ILE
2	E	304	PHE
2	E	426	PRO
2	E	518	ARG
2	E	1698	PHE
2	E	1763	THR
2	E	1796	GLY
1	G	815	ILE
1	G	835	GLY
1	G	880	ALA
1	G	887	GLY
1	G	957	VAL
1	G	1322	GLY
1	G	1512	PHE
1	G	1520	ALA
1	G	1590	ALA
1	G	1605	ILE
1	G	1640	SER
2	H	30	ALA
2	H	100	ASP
2	H	214	ASN
2	H	240	LEU
2	H	426	PRO
2	H	464	ASP
2	H	494	THR
2	H	518	ARG
2	H	1692	ASN
1	A	1215	VAL
1	A	1238	VAL
2	B	244	ILE
2	B	507	GLY
1	D	774	ILE

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Mol	Chain	Res	Type
1	D	887	GLY
1	D	957	VAL
1	D	1231	PRO
1	D	1326	ILE
1	G	774	ILE
1	G	1208	VAL
1	G	1231	PRO
1	G	1238	VAL
1	G	1297	PRO
1	G	1326	ILE
2	H	244	ILE
2	H	507	GLY
1	A	774	ILE
1	A	914	VAL
1	A	948	VAL
2	B	513	GLY
1	D	686	GLY
1	D	1238	VAL
1	D	1718	PRO
2	E	513	GLY
1	G	686	GLY
1	G	914	VAL
1	G	948	VAL
1	G	1031	GLY
1	G	1215	VAL
2	H	513	GLY
1	A	692	VAL
1	A	1031	GLY
1	A	1132	GLU
1	A	1297	PRO
1	A	1718	PRO
2	B	136	PRO
2	B	470	VAL
2	B	484	ILE
2	B	1714	PRO
1	D	682	GLY
1	D	692	VAL
1	D	914	VAL
1	D	948	VAL
1	D	1031	GLY
1	D	1215	VAL
1	D	1589	GLY

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Mol	Chain	Res	Type
2	E	507	GLY
2	E	1714	PRO
1	G	692	VAL
1	G	1132	GLU
2	H	136	PRO
2	H	1714	PRO
1	A	1589	GLY
1	D	1132	GLU
1	D	1297	PRO
2	E	470	VAL
2	E	484	ILE
2	H	470	VAL
2	H	484	ILE
1	A	682	GLY
1	A	686	GLY
1	A	1217	VAL
2	E	371	VAL
1	A	1606	PRO
1	D	1606	PRO
1	G	1606	PRO
1	A	1419	PRO
1	D	1419	PRO
1	G	1419	PRO

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	871/895 (97%)	700 (80%)	171 (20%)	1	8
1	D	871/895 (97%)	697 (80%)	174 (20%)	1	8
1	G	871/895 (97%)	696 (80%)	175 (20%)	1	8
2	B	703/703 (100%)	623 (89%)	80 (11%)	5	25
2	E	703/703 (100%)	623 (89%)	80 (11%)	5	25
2	H	703/703 (100%)	622 (88%)	81 (12%)	5	25

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	4722/4794 (98%)	3961 (84%)	761 (16%)	2 15

All (761) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	679	LEU
1	A	680	ILE
1	A	696	LEU
1	A	706	THR
1	A	707	THR
1	A	709	ARG
1	A	713	GLN
1	A	718	TYR
1	A	734	VAL
1	A	744	ASP
1	A	754	ASP
1	A	758	ASN
1	A	771	PHE
1	A	774	ILE
1	A	781	LEU
1	A	795	MET
1	A	796	LEU
1	A	800	LEU
1	A	808	LYS
1	A	823	ILE
1	A	826	MET
1	A	830	HIS
1	A	861	GLN
1	A	869	ILE
1	A	871	TRP
1	A	900	GLU
1	A	901	MET
1	A	904	ASN
1	A	912	GLU
1	A	925	ASP
1	A	930	LEU
1	A	936	LEU
1	A	991	ASP
1	A	993	PRO
1	A	994	GLU
1	A	998	TYR
1	A	1013	LEU

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Mol	Chain	Res	Type
1	A	1024	PHE
1	A	1036	ARG
1	A	1039	MET
1	A	1040	GLU
1	A	1042	PHE
1	A	1064	ASN
1	A	1067	LEU
1	A	1071	PRO
1	A	1072	TYR
1	A	1081	LYS
1	A	1082	GLU
1	A	1088	ASP
1	A	1098	LEU
1	A	1107	GLU
1	A	1111	PHE
1	A	1114	TYR
1	A	1115	ASN
1	A	1116	PRO
1	A	1117	GLU
1	A	1131	LEU
1	A	1139	GLU
1	A	1150	ASP
1	A	1152	VAL
1	A	1157	ILE
1	A	1158	PRO
1	A	1159	GLU
1	A	1162	GLU
1	A	1168	LEU
1	A	1179	LEU
1	A	1182	ASP
1	A	1183	ARG
1	A	1185	VAL
1	A	1190	PRO
1	A	1193	TRP
1	A	1196	LYS
1	A	1207	GLN
1	A	1212	THR
1	A	1213	LEU
1	A	1221	GLU
1	A	1226	SER
1	A	1243	VAL
1	A	1245	ASN

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Mol	Chain	Res	Type
1	A	1257	LEU
1	A	1261	PHE
1	A	1272	ASN
1	A	1273	ASP
1	A	1274	ILE
1	A	1275	LEU
1	A	1277	GLU
1	A	1280	ILE
1	A	1283	MET
1	A	1286	TRP
1	A	1289	MET
1	A	1291	LEU
1	A	1292	ILE
1	A	1297	PRO
1	A	1301	PRO
1	A	1310	GLU
1	A	1317	GLU
1	A	1320	LEU
1	A	1325	ARG
1	A	1329	VAL
1	A	1333	ASP
1	A	1345	ASN
1	A	1352	THR
1	A	1354	GLU
1	A	1356	PHE
1	A	1358	HIS
1	A	1367	ARG
1	A	1370	THR
1	A	1372	THR
1	A	1376	PHE
1	A	1378	GLU
1	A	1398	VAL
1	A	1412	ASP
1	A	1421	PRO
1	A	1431	GLU
1	A	1438	TYR
1	A	1441	PRO
1	A	1444	ASN
1	A	1445	MET
1	A	1447	TYR
1	A	1451	GLN
1	A	1455	ARG

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Mol	Chain	Res	Type
1	A	1462	TRP
1	A	1486	LEU
1	A	1496	GLU
1	A	1500	GLN
1	A	1506	GLN
1	A	1512	PHE
1	A	1513	TYR
1	A	1518	ARG
1	A	1519	ILE
1	A	1521	PRO
1	A	1532	THR
1	A	1536	LEU
1	A	1538	VAL
1	A	1549	ASN
1	A	1556	THR
1	A	1566	ARG
1	A	1571	PRO
1	A	1573	ILE
1	A	1581	THR
1	A	1583	HIS
1	A	1584	PRO
1	A	1585	LYS
1	A	1591	TRP
1	A	1598	GLN
1	A	1605	ILE
1	A	1606	PRO
1	A	1609	ARG
1	A	1615	ASP
1	A	1622	GLU
1	A	1625	LEU
1	A	1627	PRO
1	A	1630	THR
1	A	1631	LEU
1	A	1632	LYS
1	A	1634	ASP
1	A	1637	ARG
1	A	1641	ILE
1	A	1655	VAL
1	A	1661	LEU
1	A	1669	ARG
1	A	1685	TYR
1	A	1697	LEU

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Mol	Chain	Res	Type
1	A	1701	LYS
1	A	1706	TYR
1	A	1707	THR
1	A	1708	ASP
1	A	1732	THR
1	A	1733	PHE
1	A	1738	ILE
1	A	1741	LYS
2	B	28	PHE
2	B	29	ILE
2	B	37	PHE
2	B	38	ASN
2	B	41	LEU
2	B	64	PHE
2	B	72	VAL
2	B	82	GLN
2	B	85	ASN
2	B	87	CYS
2	B	88	LEU
2	B	95	TYR
2	B	96	LEU
2	B	97	GLU
2	B	99	ASN
2	B	101	ILE
2	B	102	HIS
2	B	109	LEU
2	B	112	ASN
2	B	138	ASP
2	B	146	PHE
2	B	180	TYR
2	B	181	HIS
2	B	199	ILE
2	B	221	ASN
2	B	224	ASN
2	B	245	GLN
2	B	259	THR
2	B	267	LEU
2	B	285	GLU
2	B	293	PHE
2	B	317	THR
2	B	328	LEU
2	B	330	ASN

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Mol	Chain	Res	Type
2	B	331	ASN
2	B	339	LEU
2	B	344	LEU
2	B	372	ASN
2	B	386	LEU
2	B	389	LEU
2	B	408	PRO
2	B	418	ASN
2	B	438	LEU
2	B	461	ASP
2	B	463	PHE
2	B	483	ILE
2	B	503	ASP
2	B	521	ASP
2	B	526	ARG
2	B	528	ILE
2	B	532	THR
2	B	533	LEU
2	B	535	ILE
2	B	537	PRO
2	B	543	PHE
2	B	1669	GLN
2	B	1672	GLN
2	B	1680	LEU
2	B	1681	TYR
2	B	1698	PHE
2	B	1701	THR
2	B	1704	PHE
2	B	1712	ASN
2	B	1718	THR
2	B	1721	PHE
2	B	1737	ILE
2	B	1743	ASP
2	B	1752	PHE
2	B	1755	ILE
2	B	1764	PHE
2	B	1812	TYR
2	B	1825	GLU
2	B	1833	TYR
2	B	1834	ARG
2	B	1871	LEU
2	B	1873	TYR

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Mol	Chain	Res	Type
2	B	1895	ASN
2	B	1899	VAL
2	B	1903	ASP
2	B	1907	LEU
1	D	679	LEU
1	D	680	ILE
1	D	696	LEU
1	D	706	THR
1	D	707	THR
1	D	709	ARG
1	D	713	GLN
1	D	718	TYR
1	D	734	VAL
1	D	744	ASP
1	D	754	ASP
1	D	758	ASN
1	D	771	PHE
1	D	774	ILE
1	D	781	LEU
1	D	795	MET
1	D	796	LEU
1	D	800	LEU
1	D	808	LYS
1	D	823	ILE
1	D	826	MET
1	D	830	HIS
1	D	861	GLN
1	D	869	ILE
1	D	871	TRP
1	D	900	GLU
1	D	901	MET
1	D	904	ASN
1	D	912	GLU
1	D	925	ASP
1	D	930	LEU
1	D	936	LEU
1	D	991	ASP
1	D	993	PRO
1	D	994	GLU
1	D	998	TYR
1	D	1013	LEU
1	D	1024	PHE

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Mol	Chain	Res	Type
1	D	1036	ARG
1	D	1040	GLU
1	D	1042	PHE
1	D	1064	ASN
1	D	1067	LEU
1	D	1071	PRO
1	D	1072	TYR
1	D	1081	LYS
1	D	1082	GLU
1	D	1088	ASP
1	D	1098	LEU
1	D	1107	GLU
1	D	1111	PHE
1	D	1114	TYR
1	D	1115	ASN
1	D	1116	PRO
1	D	1117	GLU
1	D	1131	LEU
1	D	1139	GLU
1	D	1150	ASP
1	D	1152	VAL
1	D	1157	ILE
1	D	1158	PRO
1	D	1159	GLU
1	D	1162	GLU
1	D	1168	LEU
1	D	1179	LEU
1	D	1182	ASP
1	D	1183	ARG
1	D	1185	VAL
1	D	1190	PRO
1	D	1193	TRP
1	D	1196	LYS
1	D	1207	GLN
1	D	1212	THR
1	D	1213	LEU
1	D	1218	SER
1	D	1221	GLU
1	D	1226	SER
1	D	1243	VAL
1	D	1245	ASN
1	D	1257	LEU

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Mol	Chain	Res	Type
1	D	1261	PHE
1	D	1269	PRO
1	D	1272	ASN
1	D	1273	ASP
1	D	1274	ILE
1	D	1275	LEU
1	D	1277	GLU
1	D	1280	ILE
1	D	1283	MET
1	D	1286	TRP
1	D	1289	MET
1	D	1291	LEU
1	D	1292	ILE
1	D	1297	PRO
1	D	1301	PRO
1	D	1310	GLU
1	D	1317	GLU
1	D	1320	LEU
1	D	1325	ARG
1	D	1329	VAL
1	D	1333	ASP
1	D	1345	ASN
1	D	1352	THR
1	D	1354	GLU
1	D	1356	PHE
1	D	1358	HIS
1	D	1367	ARG
1	D	1370	THR
1	D	1372	THR
1	D	1376	PHE
1	D	1378	GLU
1	D	1398	VAL
1	D	1399	PRO
1	D	1412	ASP
1	D	1421	PRO
1	D	1431	GLU
1	D	1438	TYR
1	D	1441	PRO
1	D	1444	ASN
1	D	1445	MET
1	D	1447	TYR
1	D	1451	GLN

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Mol	Chain	Res	Type
1	D	1455	ARG
1	D	1462	TRP
1	D	1486	LEU
1	D	1496	GLU
1	D	1500	GLN
1	D	1506	GLN
1	D	1512	PHE
1	D	1513	TYR
1	D	1518	ARG
1	D	1519	ILE
1	D	1521	PRO
1	D	1532	THR
1	D	1536	LEU
1	D	1538	VAL
1	D	1549	ASN
1	D	1556	THR
1	D	1566	ARG
1	D	1571	PRO
1	D	1573	ILE
1	D	1581	THR
1	D	1583	HIS
1	D	1584	PRO
1	D	1585	LYS
1	D	1591	TRP
1	D	1598	GLN
1	D	1605	ILE
1	D	1606	PRO
1	D	1609	ARG
1	D	1615	ASP
1	D	1622	GLU
1	D	1625	LEU
1	D	1627	PRO
1	D	1630	THR
1	D	1631	LEU
1	D	1632	LYS
1	D	1634	ASP
1	D	1637	ARG
1	D	1641	ILE
1	D	1655	VAL
1	D	1661	LEU
1	D	1669	ARG
1	D	1677	VAL

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Mol	Chain	Res	Type
1	D	1685	TYR
1	D	1697	LEU
1	D	1701	LYS
1	D	1706	TYR
1	D	1707	THR
1	D	1708	ASP
1	D	1732	THR
1	D	1733	PHE
1	D	1738	ILE
1	D	1741	LYS
2	E	28	PHE
2	E	29	ILE
2	E	37	PHE
2	E	38	ASN
2	E	41	LEU
2	E	64	PHE
2	E	72	VAL
2	E	82	GLN
2	E	85	ASN
2	E	87	CYS
2	E	88	LEU
2	E	95	TYR
2	E	96	LEU
2	E	97	GLU
2	E	99	ASN
2	E	101	ILE
2	E	102	HIS
2	E	109	LEU
2	E	112	ASN
2	E	138	ASP
2	E	146	PHE
2	E	180	TYR
2	E	181	HIS
2	E	199	ILE
2	E	221	ASN
2	E	224	ASN
2	E	245	GLN
2	E	259	THR
2	E	267	LEU
2	E	285	GLU
2	E	293	PHE
2	E	317	THR

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Mol	Chain	Res	Type
2	E	328	LEU
2	E	330	ASN
2	E	331	ASN
2	E	339	LEU
2	E	344	LEU
2	E	372	ASN
2	E	386	LEU
2	E	389	LEU
2	E	408	PRO
2	E	418	ASN
2	E	438	LEU
2	E	461	ASP
2	E	463	PHE
2	E	483	ILE
2	E	503	ASP
2	E	521	ASP
2	E	526	ARG
2	E	528	ILE
2	E	532	THR
2	E	533	LEU
2	E	535	ILE
2	E	537	PRO
2	E	543	PHE
2	E	1669	GLN
2	E	1672	GLN
2	E	1680	LEU
2	E	1681	TYR
2	E	1698	PHE
2	E	1701	THR
2	E	1704	PHE
2	E	1712	ASN
2	E	1718	THR
2	E	1721	PHE
2	E	1737	ILE
2	E	1743	ASP
2	E	1752	PHE
2	E	1755	ILE
2	E	1764	PHE
2	E	1812	TYR
2	E	1825	GLU
2	E	1833	TYR
2	E	1834	ARG

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Mol	Chain	Res	Type
2	E	1871	LEU
2	E	1873	TYR
2	E	1895	ASN
2	E	1899	VAL
2	E	1903	ASP
2	E	1907	LEU
1	G	679	LEU
1	G	680	ILE
1	G	696	LEU
1	G	703	VAL
1	G	706	THR
1	G	707	THR
1	G	709	ARG
1	G	713	GLN
1	G	718	TYR
1	G	734	VAL
1	G	744	ASP
1	G	754	ASP
1	G	758	ASN
1	G	771	PHE
1	G	774	ILE
1	G	781	LEU
1	G	795	MET
1	G	796	LEU
1	G	800	LEU
1	G	808	LYS
1	G	823	ILE
1	G	826	MET
1	G	830	HIS
1	G	861	GLN
1	G	869	ILE
1	G	871	TRP
1	G	900	GLU
1	G	901	MET
1	G	904	ASN
1	G	925	ASP
1	G	930	LEU
1	G	936	LEU
1	G	991	ASP
1	G	993	PRO
1	G	994	GLU
1	G	998	TYR

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Mol	Chain	Res	Type
1	G	1013	LEU
1	G	1024	PHE
1	G	1036	ARG
1	G	1040	GLU
1	G	1042	PHE
1	G	1064	ASN
1	G	1067	LEU
1	G	1071	PRO
1	G	1072	TYR
1	G	1080	THR
1	G	1081	LYS
1	G	1082	GLU
1	G	1088	ASP
1	G	1098	LEU
1	G	1107	GLU
1	G	1111	PHE
1	G	1114	TYR
1	G	1115	ASN
1	G	1116	PRO
1	G	1117	GLU
1	G	1131	LEU
1	G	1139	GLU
1	G	1150	ASP
1	G	1152	VAL
1	G	1157	ILE
1	G	1158	PRO
1	G	1159	GLU
1	G	1162	GLU
1	G	1168	LEU
1	G	1179	LEU
1	G	1182	ASP
1	G	1183	ARG
1	G	1185	VAL
1	G	1190	PRO
1	G	1193	TRP
1	G	1196	LYS
1	G	1207	GLN
1	G	1212	THR
1	G	1213	LEU
1	G	1218	SER
1	G	1221	GLU
1	G	1226	SER

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Mol	Chain	Res	Type
1	G	1243	VAL
1	G	1245	ASN
1	G	1257	LEU
1	G	1261	PHE
1	G	1269	PRO
1	G	1272	ASN
1	G	1273	ASP
1	G	1274	ILE
1	G	1275	LEU
1	G	1277	GLU
1	G	1280	ILE
1	G	1283	MET
1	G	1286	TRP
1	G	1289	MET
1	G	1291	LEU
1	G	1292	ILE
1	G	1297	PRO
1	G	1301	PRO
1	G	1310	GLU
1	G	1317	GLU
1	G	1320	LEU
1	G	1325	ARG
1	G	1329	VAL
1	G	1333	ASP
1	G	1345	ASN
1	G	1352	THR
1	G	1354	GLU
1	G	1356	PHE
1	G	1358	HIS
1	G	1367	ARG
1	G	1370	THR
1	G	1372	THR
1	G	1376	PHE
1	G	1378	GLU
1	G	1398	VAL
1	G	1412	ASP
1	G	1421	PRO
1	G	1431	GLU
1	G	1438	TYR
1	G	1441	PRO
1	G	1444	ASN
1	G	1445	MET

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Mol	Chain	Res	Type
1	G	1447	TYR
1	G	1451	GLN
1	G	1455	ARG
1	G	1462	TRP
1	G	1486	LEU
1	G	1496	GLU
1	G	1500	GLN
1	G	1506	GLN
1	G	1512	PHE
1	G	1513	TYR
1	G	1518	ARG
1	G	1519	ILE
1	G	1521	PRO
1	G	1532	THR
1	G	1536	LEU
1	G	1538	VAL
1	G	1549	ASN
1	G	1556	THR
1	G	1566	ARG
1	G	1571	PRO
1	G	1573	ILE
1	G	1581	THR
1	G	1583	HIS
1	G	1584	PRO
1	G	1585	LYS
1	G	1591	TRP
1	G	1597	LEU
1	G	1598	GLN
1	G	1600	LEU
1	G	1605	ILE
1	G	1606	PRO
1	G	1609	ARG
1	G	1615	ASP
1	G	1622	GLU
1	G	1625	LEU
1	G	1627	PRO
1	G	1630	THR
1	G	1631	LEU
1	G	1632	LYS
1	G	1634	ASP
1	G	1637	ARG
1	G	1641	ILE

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Mol	Chain	Res	Type
1	G	1655	VAL
1	G	1661	LEU
1	G	1669	ARG
1	G	1685	TYR
1	G	1697	LEU
1	G	1701	LYS
1	G	1706	TYR
1	G	1707	THR
1	G	1708	ASP
1	G	1732	THR
1	G	1733	PHE
1	G	1738	ILE
1	G	1741	LYS
2	H	28	PHE
2	H	29	ILE
2	H	37	PHE
2	H	38	ASN
2	H	41	LEU
2	H	64	PHE
2	H	72	VAL
2	H	82	GLN
2	H	85	ASN
2	H	87	CYS
2	H	88	LEU
2	H	95	TYR
2	H	96	LEU
2	H	97	GLU
2	H	99	ASN
2	H	101	ILE
2	H	102	HIS
2	H	109	LEU
2	H	112	ASN
2	H	138	ASP
2	H	146	PHE
2	H	180	TYR
2	H	181	HIS
2	H	199	ILE
2	H	221	ASN
2	H	224	ASN
2	H	245	GLN
2	H	259	THR
2	H	267	LEU

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Mol	Chain	Res	Type
2	H	285	GLU
2	H	293	PHE
2	H	317	THR
2	H	328	LEU
2	H	330	ASN
2	H	331	ASN
2	H	339	LEU
2	H	344	LEU
2	H	372	ASN
2	H	386	LEU
2	H	389	LEU
2	H	408	PRO
2	H	418	ASN
2	H	438	LEU
2	H	461	ASP
2	H	463	PHE
2	H	483	ILE
2	H	503	ASP
2	H	521	ASP
2	H	526	ARG
2	H	528	ILE
2	H	532	THR
2	H	533	LEU
2	H	537	PRO
2	H	543	PHE
2	H	1669	GLN
2	H	1672	GLN
2	H	1680	LEU
2	H	1681	TYR
2	H	1698	PHE
2	H	1701	THR
2	H	1704	PHE
2	H	1712	ASN
2	H	1718	THR
2	H	1721	PHE
2	H	1729	ILE
2	H	1737	ILE
2	H	1743	ASP
2	H	1752	PHE
2	H	1755	ILE
2	H	1762	TYR
2	H	1764	PHE

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Mol	Chain	Res	Type
2	H	1812	TYR
2	H	1825	GLU
2	H	1833	TYR
2	H	1834	ARG
2	H	1871	LEU
2	H	1873	TYR
2	H	1895	ASN
2	H	1899	VAL
2	H	1903	ASP
2	H	1907	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (179) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	758	ASN
1	A	792	HIS
1	A	829	ASN
1	A	830	HIS
1	A	861	GLN
1	A	904	ASN
1	A	927	ASN
1	A	931	GLN
1	A	1003	GLN
1	A	1063	HIS
1	A	1115	ASN
1	A	1123	GLN
1	A	1143	GLN
1	A	1188	GLN
1	A	1207	GLN
1	A	1239	HIS
1	A	1245	ASN
1	A	1288	ASN
1	A	1345	ASN
1	A	1351	ASN
1	A	1358	HIS
1	A	1385	GLN
1	A	1389	GLN
1	A	1444	ASN
1	A	1451	GLN
1	A	1494	HIS
1	A	1495	ASN
1	A	1505	GLN

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Mol	Chain	Res	Type
1	A	1510	ASN
1	A	1552	ASN
1	A	1570	ASN
1	A	1577	GLN
1	A	1594	ASN
2	B	34	GLN
2	B	38	ASN
2	B	85	ASN
2	B	93	ASN
2	B	99	ASN
2	B	125	ASN
2	B	221	ASN
2	B	224	ASN
2	B	245	GLN
2	B	273	HIS
2	B	275	GLN
2	B	316	ASN
2	B	331	ASN
2	B	354	ASN
2	B	365	GLN
2	B	376	ASN
2	B	390	ASN
2	B	418	ASN
2	B	430	HIS
2	B	440	ASN
2	B	1672	GLN
2	B	1674	GLN
2	B	1692	ASN
2	B	1775	GLN
2	B	1858	ASN
2	B	1892	ASN
2	B	1912	ASN
2	B	1939	HIS
1	D	758	ASN
1	D	792	HIS
1	D	829	ASN
1	D	830	HIS
1	D	861	GLN
1	D	904	ASN
1	D	927	ASN
1	D	931	GLN
1	D	1003	GLN

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Mol	Chain	Res	Type
1	D	1063	HIS
1	D	1115	ASN
1	D	1123	GLN
1	D	1143	GLN
1	D	1188	GLN
1	D	1207	GLN
1	D	1239	HIS
1	D	1245	ASN
1	D	1288	ASN
1	D	1345	ASN
1	D	1351	ASN
1	D	1358	HIS
1	D	1385	GLN
1	D	1389	GLN
1	D	1444	ASN
1	D	1451	GLN
1	D	1495	ASN
1	D	1505	GLN
1	D	1510	ASN
1	D	1552	ASN
1	D	1570	ASN
1	D	1577	GLN
1	D	1594	ASN
2	E	34	GLN
2	E	38	ASN
2	E	82	GLN
2	E	85	ASN
2	E	93	ASN
2	E	99	ASN
2	E	125	ASN
2	E	221	ASN
2	E	224	ASN
2	E	245	GLN
2	E	273	HIS
2	E	275	GLN
2	E	316	ASN
2	E	331	ASN
2	E	354	ASN
2	E	365	GLN
2	E	376	ASN
2	E	390	ASN
2	E	418	ASN

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Mol	Chain	Res	Type
2	E	440	ASN
2	E	1672	GLN
2	E	1674	GLN
2	E	1692	ASN
2	E	1775	GLN
2	E	1858	ASN
2	E	1892	ASN
2	E	1912	ASN
2	E	1939	HIS
1	G	758	ASN
1	G	792	HIS
1	G	829	ASN
1	G	830	HIS
1	G	861	GLN
1	G	904	ASN
1	G	927	ASN
1	G	931	GLN
1	G	1003	GLN
1	G	1063	HIS
1	G	1115	ASN
1	G	1123	GLN
1	G	1143	GLN
1	G	1188	GLN
1	G	1207	GLN
1	G	1239	HIS
1	G	1245	ASN
1	G	1288	ASN
1	G	1345	ASN
1	G	1351	ASN
1	G	1358	HIS
1	G	1385	GLN
1	G	1389	GLN
1	G	1444	ASN
1	G	1451	GLN
1	G	1495	ASN
1	G	1505	GLN
1	G	1510	ASN
1	G	1552	ASN
1	G	1570	ASN
1	G	1577	GLN
1	G	1594	ASN
2	H	34	GLN

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Mol	Chain	Res	Type
2	H	38	ASN
2	H	85	ASN
2	H	93	ASN
2	H	99	ASN
2	H	125	ASN
2	H	221	ASN
2	H	224	ASN
2	H	245	GLN
2	H	273	HIS
2	H	275	GLN
2	H	316	ASN
2	H	331	ASN
2	H	354	ASN
2	H	365	GLN
2	H	376	ASN
2	H	390	ASN
2	H	418	ASN
2	H	440	ASN
2	H	1672	GLN
2	H	1674	GLN
2	H	1692	ASN
2	H	1775	GLN
2	H	1858	ASN
2	H	1892	ASN
2	H	1912	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	D	2
1	A	2
1	G	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	506:UNK	C	516:UNK	N	28.27
1	A	506:UNK	C	516:UNK	N	28.26
1	G	506:UNK	C	516:UNK	N	28.26
1	D	305:UNK	C	360:UNK	N	17.84
1	A	305:UNK	C	360:UNK	N	17.83
1	G	305:UNK	C	360:UNK	N	17.83

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1069/1688 (63%)	-0.35	0 100 100	48, 122, 192, 203	0
1	D	1069/1688 (63%)	-0.32	2 (0%) 95 93	53, 123, 194, 203	0
1	G	1069/1688 (63%)	-0.37	1 (0%) 95 94	43, 112, 190, 203	0
2	B	818/2006 (40%)	-0.12	25 (3%) 49 38	107, 177, 202, 203	0
2	E	818/2006 (40%)	-0.10	14 (1%) 70 60	111, 190, 202, 203	0
2	H	818/2006 (40%)	-0.15	17 (2%) 63 54	94, 183, 202, 203	0
3	C	0/65	-	-	-	-
3	F	0/65	-	-	-	-
3	I	0/65	-	-	-	-
All	All	5661/11277 (50%)	-0.25	59 (1%) 82 74	43, 151, 201, 203	0

All (59) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	1895	ASN	9.5
2	H	451	ASN	4.7
2	H	51	ASP	4.3
2	E	1928	GLN	4.2
2	E	425	SER	4.1
2	B	1880	LYS	4.0
2	E	451	ASN	3.8
2	B	269	GLY	3.8
2	E	1880	LYS	3.7
2	E	269	GLY	3.6
2	B	1882	THR	3.5
2	H	1895	ASN	3.3
2	E	270	ALA	3.2
2	B	1879	GLY	3.2
2	E	1744	GLY	3.1
2	H	162	GLY	3.0

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Mol	Chain	Res	Type	RSRZ
2	H	73	GLU	3.0
2	B	1881	ARG	2.9
2	H	161	GLY	2.9
2	B	1821	VAL	2.8
2	B	1896	GLN	2.8
1	D	972	SER	2.6
2	B	418	ASN	2.6
2	B	1704	PHE	2.6
2	E	1841	ALA	2.6
2	H	282	ALA	2.5
2	B	1676	MET	2.5
2	H	1880	LYS	2.5
2	H	1853	GLY	2.4
2	B	1844	ARG	2.4
2	B	1852	TYR	2.4
2	H	532	THR	2.4
2	B	1871	LEU	2.3
2	B	1874	VAL	2.3
2	H	71	LEU	2.3
1	D	1064	ASN	2.3
2	B	1898	TYR	2.3
2	H	156	LEU	2.3
2	B	1822	MET	2.3
2	E	183	LEU	2.3
2	E	1929	LYS	2.3
2	E	1895	ASN	2.3
2	H	50	ALA	2.2
2	B	1897	GLN	2.2
2	B	1878	VAL	2.2
1	G	1088	ASP	2.2
2	E	65	LEU	2.2
2	H	72	VAL	2.2
2	B	1669	GLN	2.1
2	B	1672	GLN	2.1
2	H	1851	ASN	2.1
2	B	459	VAL	2.1
2	E	61	VAL	2.1
2	B	1853	GLY	2.1
2	H	415	LYS	2.1
2	H	205	ALA	2.1
2	E	95	TYR	2.1
2	B	332	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
2	B	1894	GLU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.