Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 07:02 AM UTC

PDB ID	:	4V58 / pdb_00004v58
Title	:	Crystal structure of fatty acid synthase from thermomyces lanuginosus at 3.1 angstrom resolution.
Authors	:	Jenni, S.; Leibundgut, M.; Boehringer, D.; Frick, C.; Mikolasek, B.; Ban, N.
Deposited on	:	2007-03-09
Resolution	:	3.10 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:

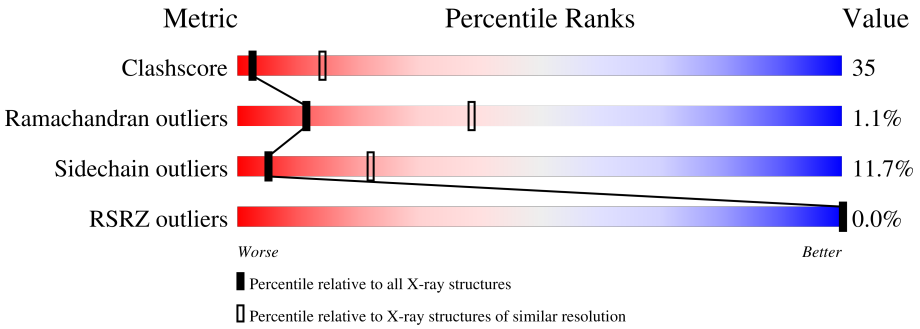
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 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))
Clashscore	190562	1539 (3.10-3.10)
Ramachandran outliers	187476	1467 (3.10-3.10)
Sidechain outliers	187428	1467 (3.10-3.10)
RSRZ outliers	180081	1456 (3.10-3.10)

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 <=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	1878	39% 33% 5% 22%
1	B	1878	40% 32% 5% 22%
1	C	1878	40% 33% 5% 22%
1	D	1878	39% 33% 6% 22%
1	E	1878	39% 33% 5% 22%
1	F	1878	40% 33% 5% 22%
2	G	2060	42% 50% 8%

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Mol	Chain	Length	Quality of chain
2	H	2060	41% 51% 8%
2	I	2060	41% 51% 8%
2	J	2060	42% 50% 8%
2	K	2060	40% 51% 8%
2	L	2060	41% 51% 8%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	FMN	G	2101	-	-	X	-
3	FMN	H	2101	-	-	X	-
3	FMN	I	2101	-	-	X	-
3	FMN	J	2101	-	-	X	-
3	FMN	K	2101	-	X	X	-
3	FMN	L	2101	-	-	X	-

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 166671 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.

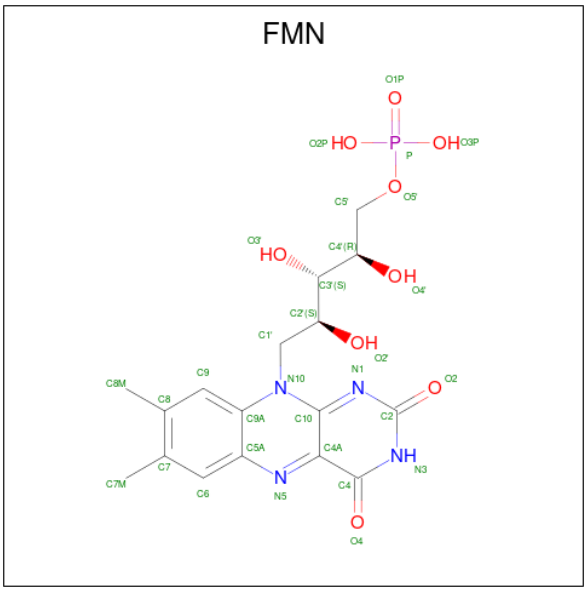
- Molecule 1 is a protein called FATTY ACID SYNTHASE ALPHA SUBUNITS.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1457	Total	C	N	O	S	0	0	0
			11514	7290	2005	2170	49			
1	B	1464	Total	C	N	O	S	0	0	0
			11571	7323	2015	2183	50			
1	C	1462	Total	C	N	O	S	0	0	0
			11555	7312	2012	2181	50			
1	D	1467	Total	C	N	O	S	0	0	0
			11593	7336	2021	2186	50			
1	E	1456	Total	C	N	O	S	0	0	0
			11506	7285	2004	2169	48			
1	F	1461	Total	C	N	O	S	0	0	0
			11546	7307	2010	2179	50			

- Molecule 2 is a protein called FATTY ACID SYNTHASE BETA SUBUNITS.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	G	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	H	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	I	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	J	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	K	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	L	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			

- Molecule 3 is FLAVIN MONONUCLEOTIDE (CCD ID: FMN) (formula: $C_{17}H_{21}N_4O_9P$).



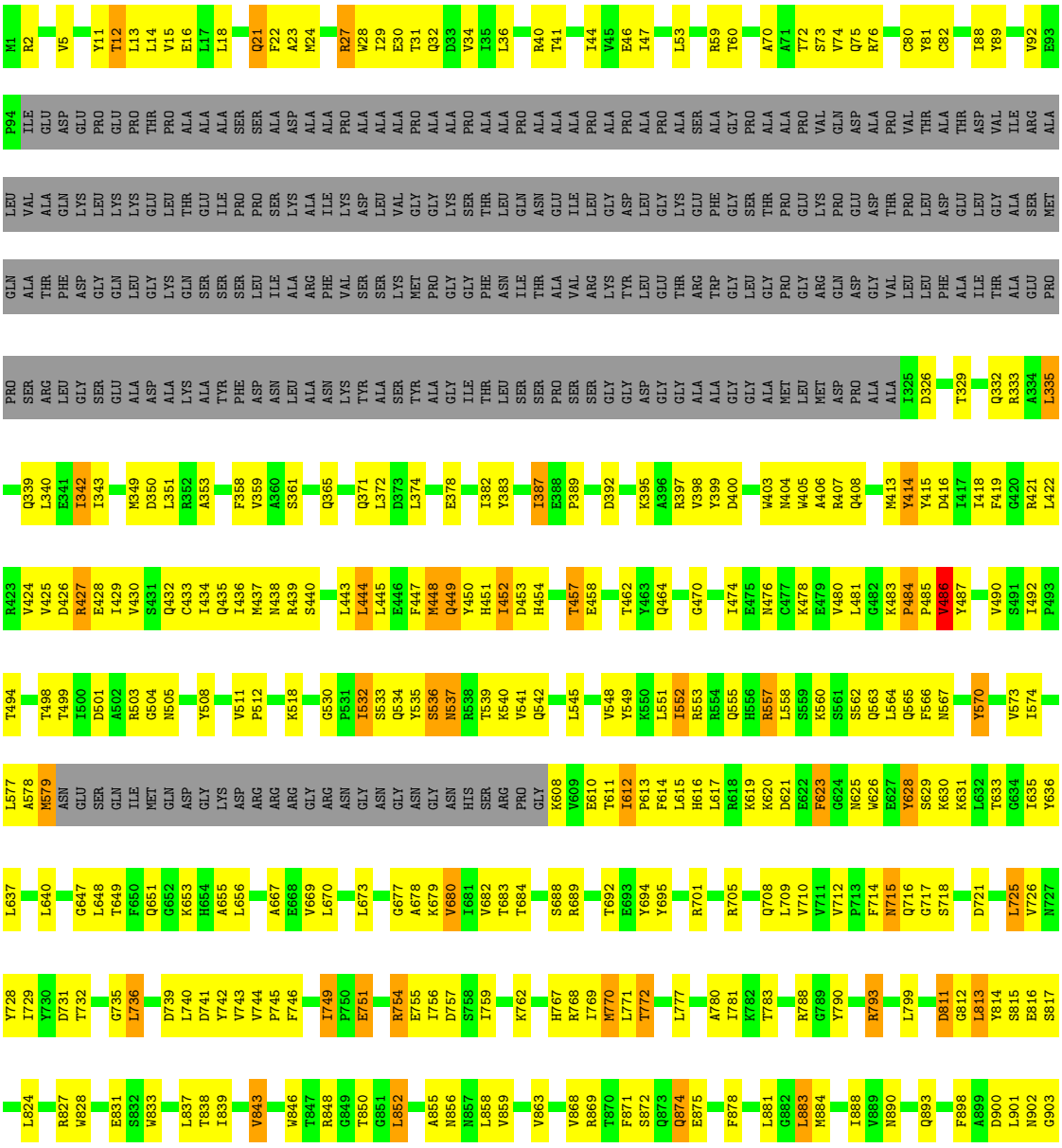
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	G	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
3	H	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
3	I	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
3	J	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
3	K	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
3	L	1	Total	C	N	O	P	0	0
			31	17	4	9	1		

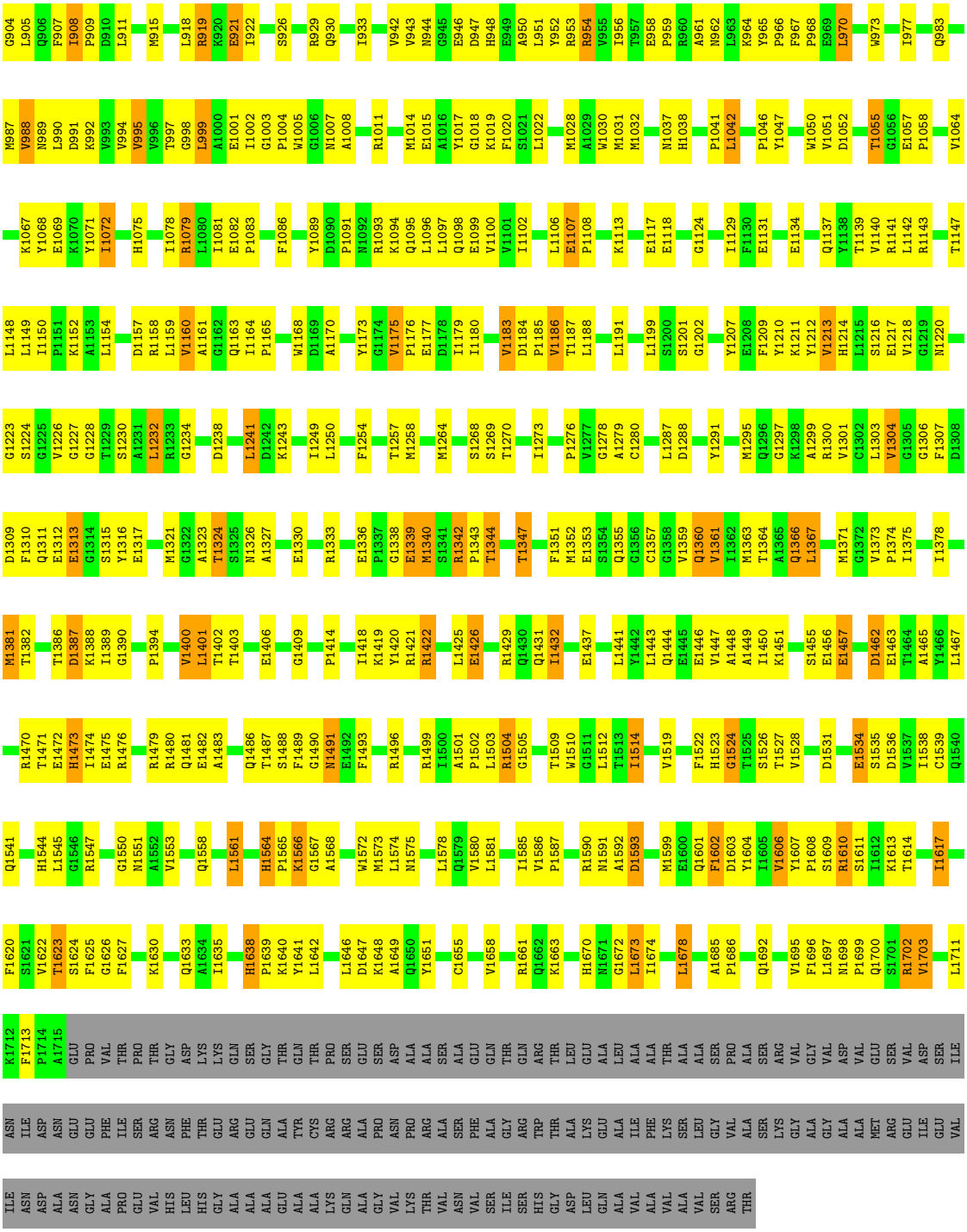
3 Residue-property plots (i)

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 ALPHA SUBUNITS

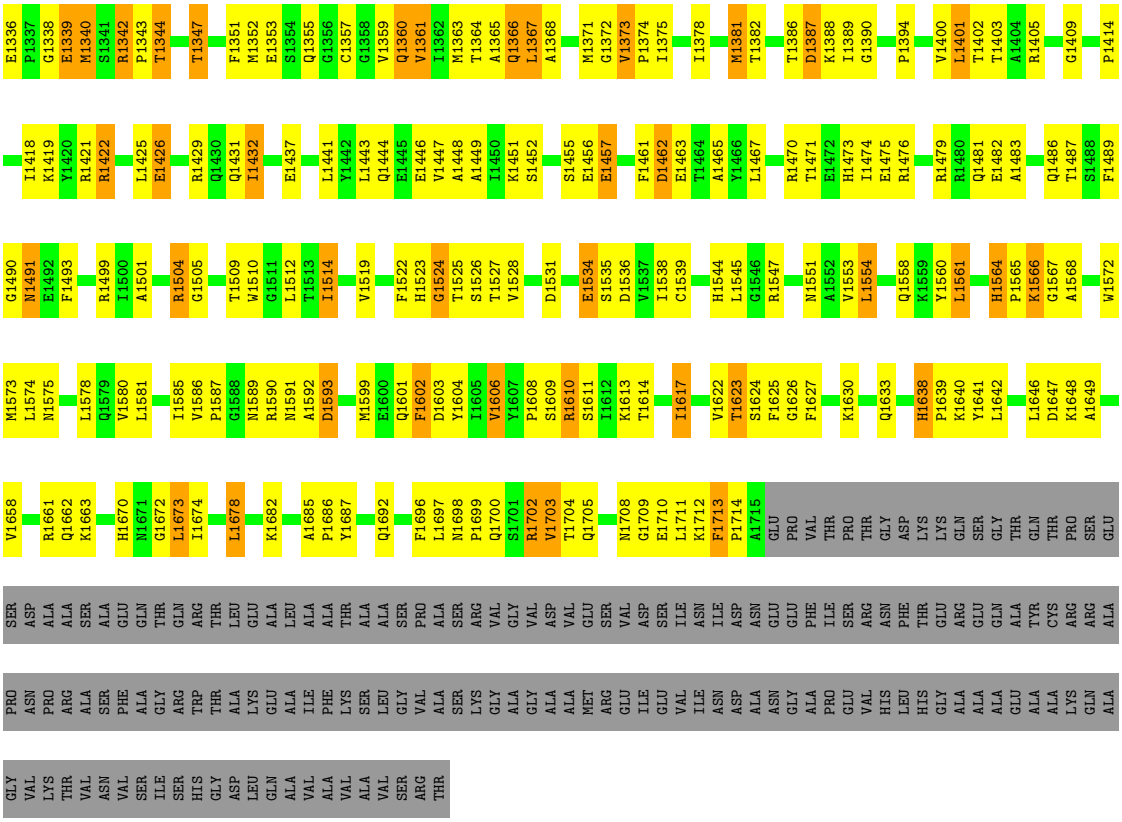
Chain A:





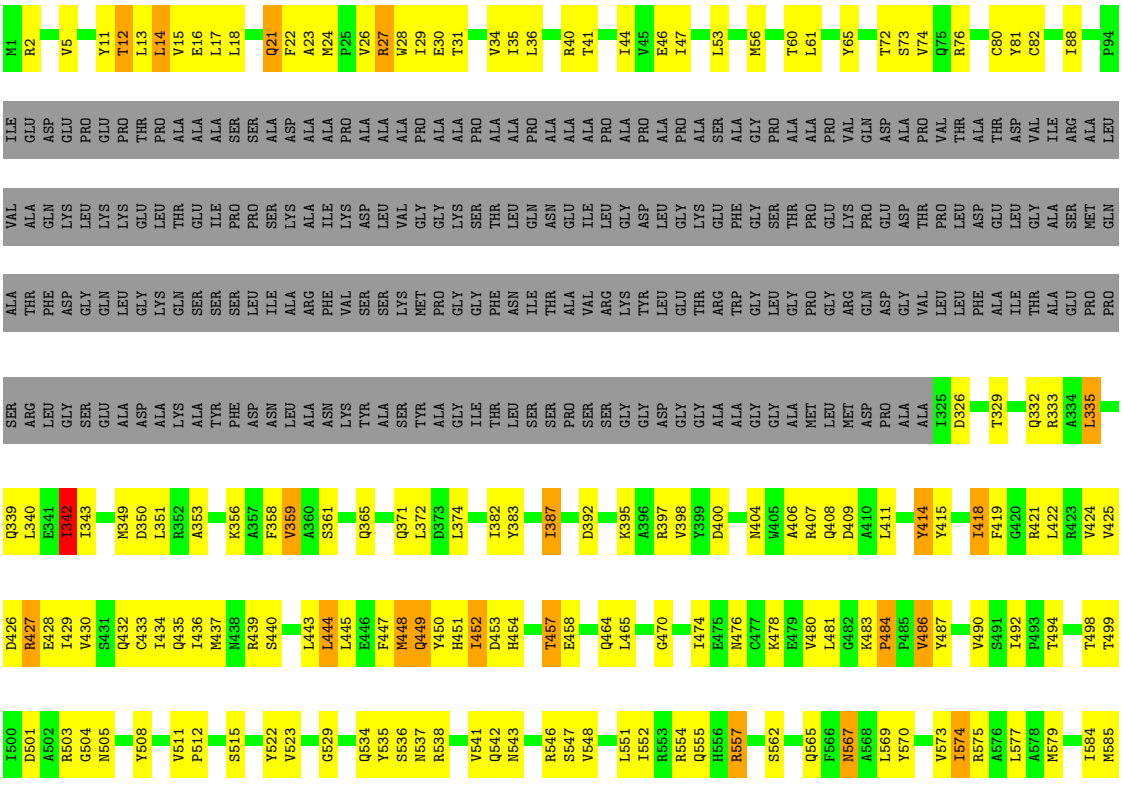
• Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

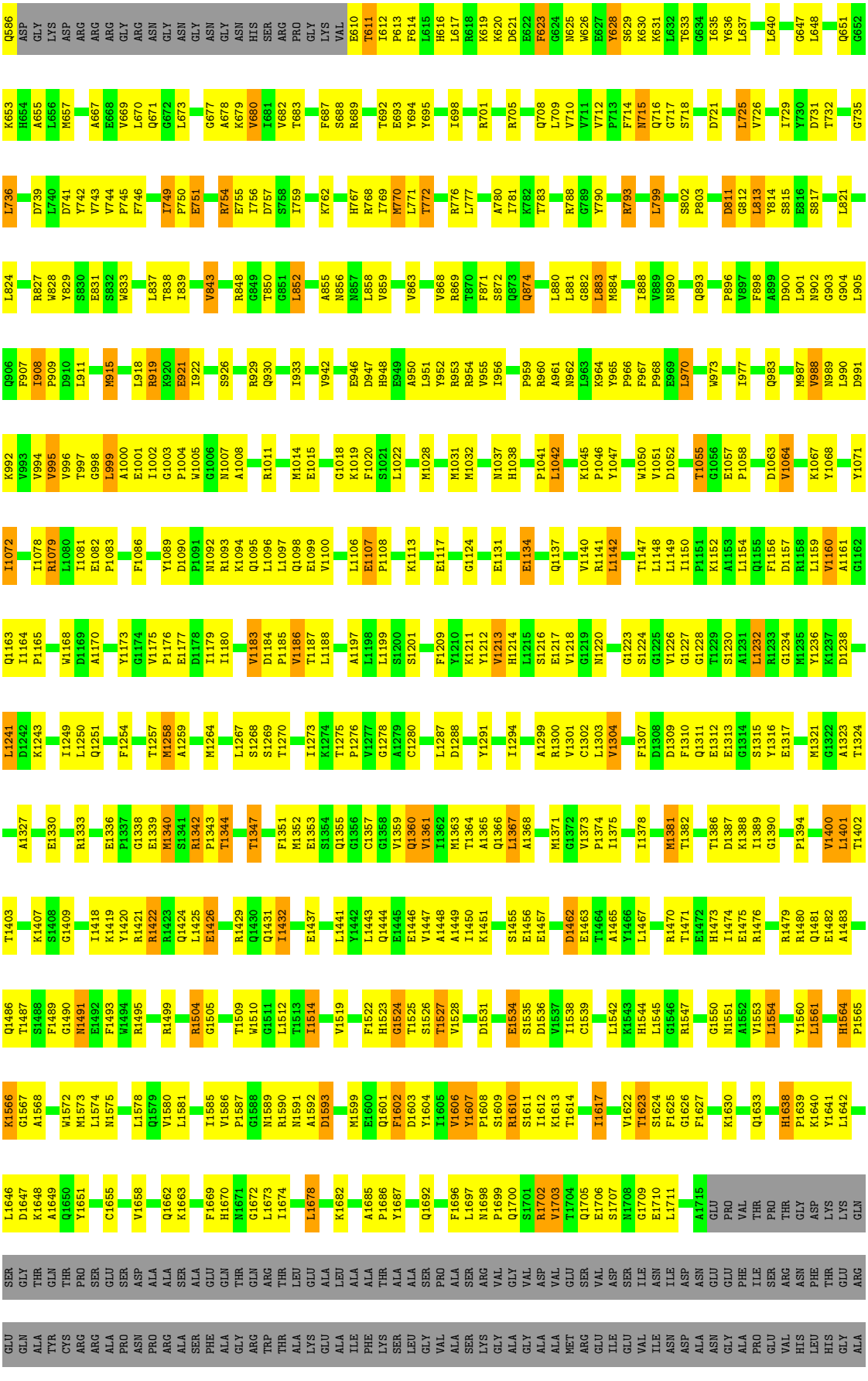
Chain B:



• Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

Chain C:

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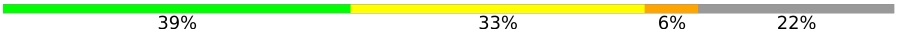
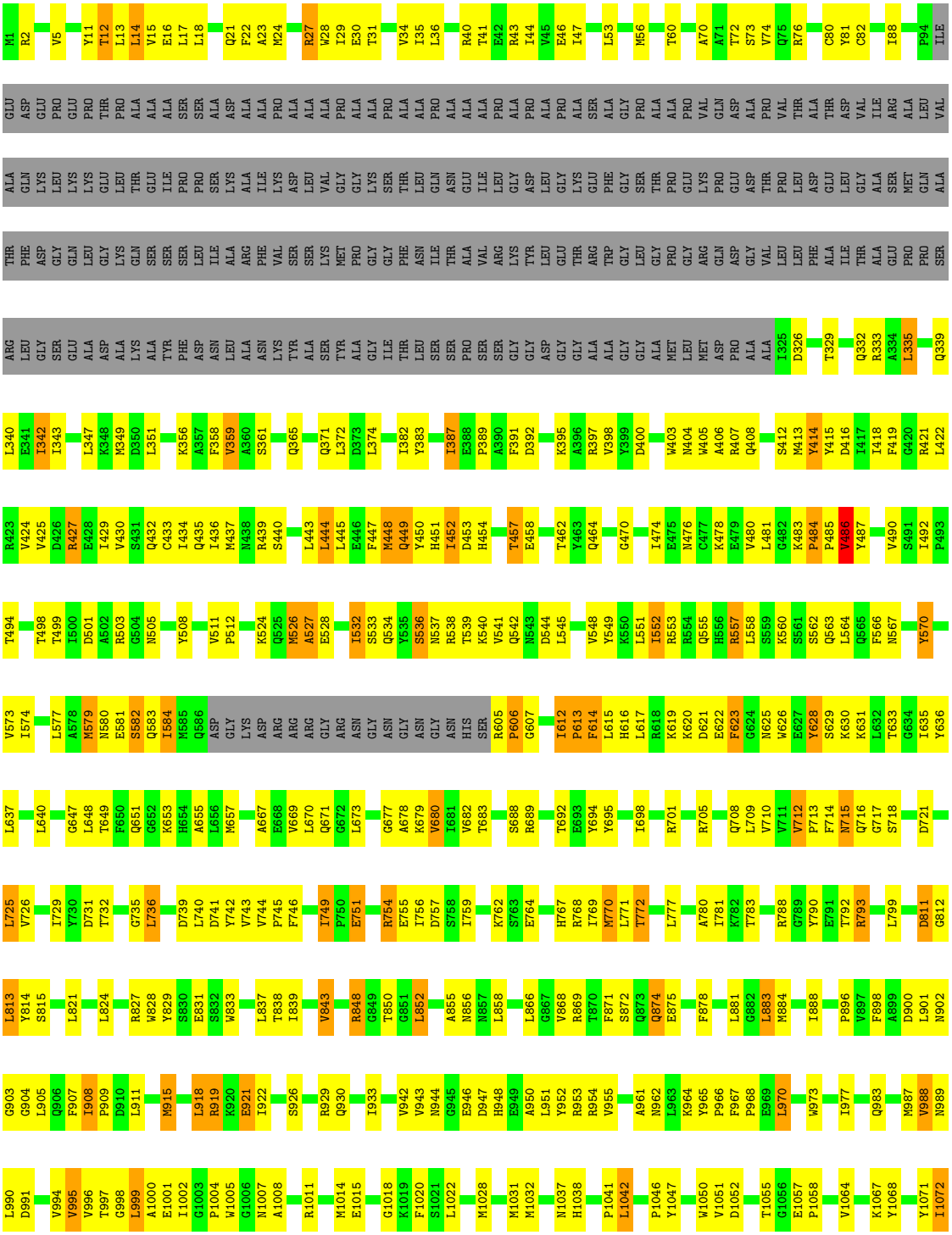
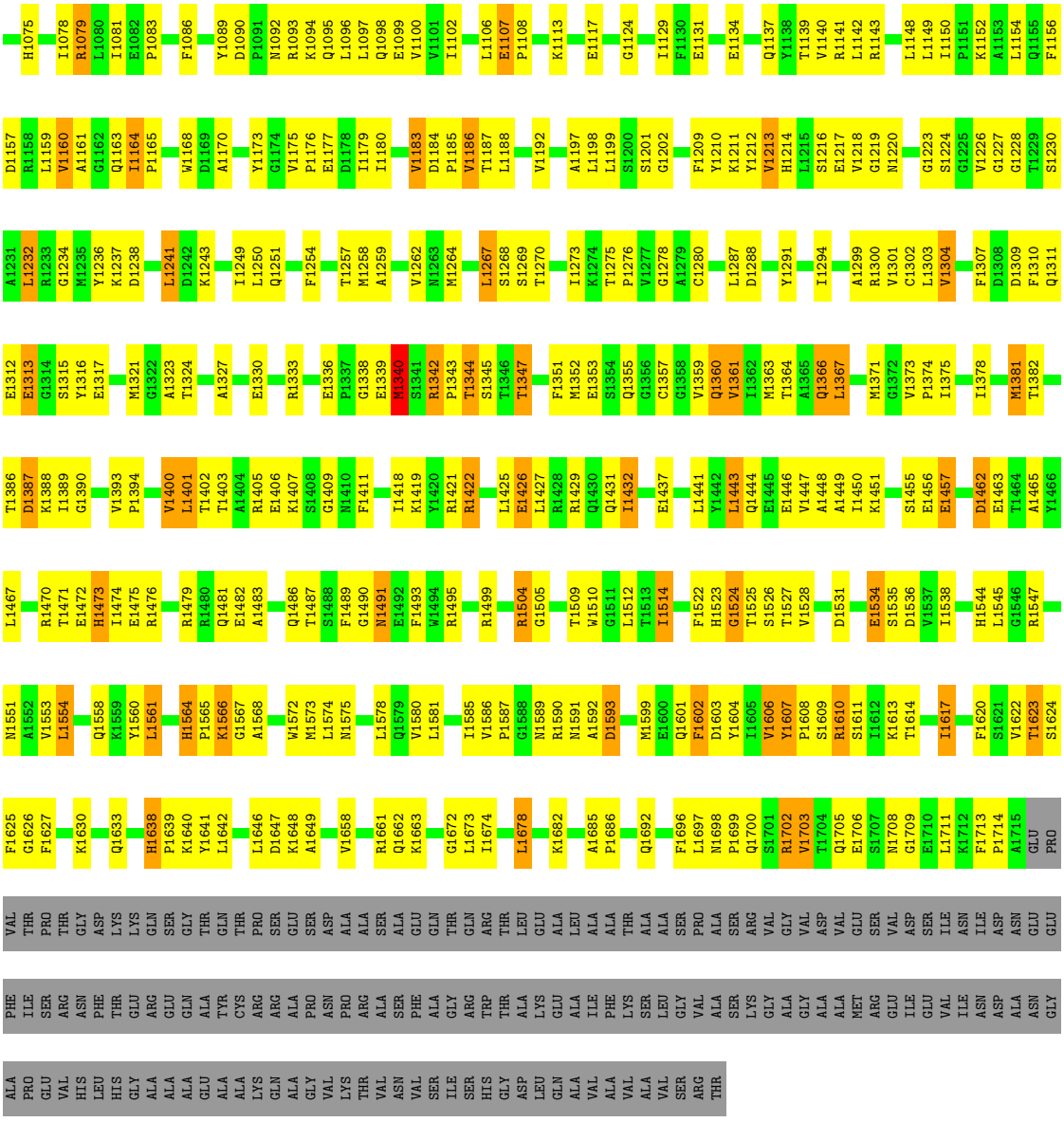
K653 H654 A655 L656 M657 A667 E668 V669 L670 Q671 G672 L673 G677 A678 K679 V680 I681 V682 T683 F687 S688 R689 T692 E693 Y694 Y695 I698 R701 R705 Q708 L709 V710 V711 V712 P713 F714 N715 Q716 G717 S718 D721 L725 V726 I729 Y730 D731 T732 G735
L736 D739 L740 D741 Y742 V743 V744 P745 F746 I749 P750 E751 R754 E755 I756 D757 S758 I759 K762 H767 R768 I769 M770 L771 T772 R776 L777 A780 I781 K782 T783 R788 G789 Y790 R793 L799 S802 P803 D811 G812 L813 Y814 S815 E816 S817 L821
L824 R827 W828 Y829 S830 E831 S832 W833 L837 T838 I839 V843 R848 G849 T850 G851 L852 A855 N856 N857 L858 V859 V863 V868 R869 T870 F871 S872 Q873 Q874 L880 L881 G882 L883 M884 I888 V889 N890 Q893 P896 V897 F898 A899 D900 L901 N902 G903 G904 L905
Q906 F907 I908 P909 D910 L911 M915 L918 R919 K920 E921 I922 S926 R929 Q930 I933 V942 E946 D947 H948 E949 A950 L951 Y952 R953 R954 V955 I956 P959 R960 A961 N962 L963 K964 Y965 P966 F967 P968 E969 L970 W973 I977 Q983 M987 V988 N989 L990 D991
K992 V993 V994 V995 V996 T997 G998 L999 A1000 E1001 I1002 G1003 P1004 W1005 G1006 N1007 A1008 R1011 M1014 E1015 G1018 K1019 F1020 S1021 L1022 M1028 M1031 M1032 N1037 H1038 P1041 L1042 K1045 P1046 Y1047 W1050 V1051 D1052 T1055 G1056 E1057 P1058 D1063 V1064 K1067 Y1068 Y1071
I1072 I1078 R1079 L1080 I1081 E1082 P1083 F1086 Y1089 D1090 P1091 N1092 R1093 K1094 Q1095 L1096 L1097 Q1098 E1099 V1100 L1106 E1107 P1108 K1113 E1117 G1124 E1131 E1134 Q1137 V1140 R1141 L1142 T1147 L1148 L1149 I1150 P1151 K1152 A1153 L1154 Q1155 F1156 D1157 R1158 L1159 V1160 A1161 G1162
Q1163 I1164 P1165 W1168 D1169 A1170 Y1173 G1174 V1175 P1176 E1177 D1178 I1179 I1180 V1183 D1184 P1185 V1186 T1187 L1188 A1197 L1198 L1199 S1200 S1201 F1209 Y1210 K1211 Y1212 V1213 H1214 L1215 S1216 E1217 V1218 G1219 N1220 G1223 S1224 G1225 V1226 G1227 G1228 T1229 S1230 A1231 L1232 R1233 G1234 M1235 Y1236 K1237 D1238
L1241 D1242 K1243 I1249 L1250 Q1251 F1254 T1257 M1258 A1259 M1264 L1267 S1268 S1269 T1270 I1273 K1274 T1275 P1276 V1277 G1278 A1279 C1280 L1287 D1288 Y1291 I1294 A1299 R1300 V1301 C1302 L1303 V1304 F1307 D1308 D1309 F1310 Q1311 E1312 E1313 G1314 S1315 Y1316 E1317 M1321 G1322 A1323 T1324
A1327 E1330 R1333 E1336 P1337 G1338 E1339 M1340 S1341 R1342 P1343 T1344 T1347 F1351 M1352 E1353 S1354 Q1355 G1356 C1357 G1358 V1359 Q1360 V1361 I1362 M1363 T1364 A1365 Q1366 L1367 A1368 M1371 G1372 V1373 P1374 I1375 I1378 M1381 T1382 T1386 D1387 K1388 I1389 G1390 P1394 V1400 L1401 T1402
T1403 K1407 S1408 G1409 I1418 K1419 Y1420 R1421 R1422 R1423 Q1424 L1425 E1426 R1429 Q1430 Q1431 I1432 E1437 L1441 Y1442 L1443 Q1444 E1445 E1446 V1447 A1448 A1449 I1450 K1451 S1455 E1456 E1457 D1462 E1463 T1464 A1465 Y1466 L1467 R1470 T1471 E1472 H1473 I1474 E1475 R1476 R1479 R1480 Q1481 E1482 A1483
Q1486 T1487 S1488 F1489 G1490 N1491 E1492 F1493 W1494 R1495 R1499 R1504 G1505 T1509 W1510 G1511 L1512 T1513 I1514 V1519 F1522 H1523 G1524 T1525 S1526 T1527 V1528 D1531 E1534 S1535 D1536 V1537 I1538 C1539 L1542 K1543 H1544 L1545 G1546 R1547 G1550 N1551 A1552 V1553 L1554 Y1560 L1561 H1564 P1565
K1566 G1567 A1568 W1572 M1573 L1574 N1575 L1578 Q1579 V1580 L1581 I1585 V1586 P1587 G1588 N1589 R1590 N1591 A1592 D1593 M1599 E1600 Q1601 F1602 D1603 Y1604 I1605 V1606 Y1607 P1608 S1609 R1610 S1611 I1612 K1613 T1614 I1617 V1622 T1623 S1624 F1625 G1626 F1627 K1630 Q1633 H1638 P1639 K1640 Y1641 L1642
L1646 D1647 K1648 A1649 Q1650 Y1651 C1655 V1658 Q1662 K1663 F1669 H1670 N1671 G1672 L1673 I1674 L1678 K1682 A1685 P1686 Y1687 Q1692 F1696 L1697 N1698 P1699 Q1700 S1701 R1702 V1703 T1704 Q1705 E1706 S1707 N1708 G1709 E1710 L1711 A1715
SER GLY THR GLN THR PRO SER GLU SER ASP ALA ALA SER ALA GLU GLN THR GLN ARG THR LEU GLU ALA LEU ALA ALA THR ALA SER LEU GLY VAL ALA SER LYS GLY ALA GLY ALA ALA MET ARG GLU ILE SER VAL ILE ASN ILE ASP ALA ASN GLU GLU PHE THR GLU ARG
GLU GLN ALA TYR CYS ARG ARG ALA PRO ASN PRO ARG ALA SER PHE ALA GLY ARG TRP THR ALA LYS GLU ALA ILE PHE LYS SER LEU GLY VAL ALA ALA SER LYS GLY ALA GLY ALA ALA ALA PRO GLU VAL HIS LEU HIS GLY LYS GLY ALA

• Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

Chain D:

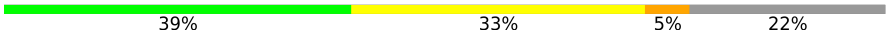


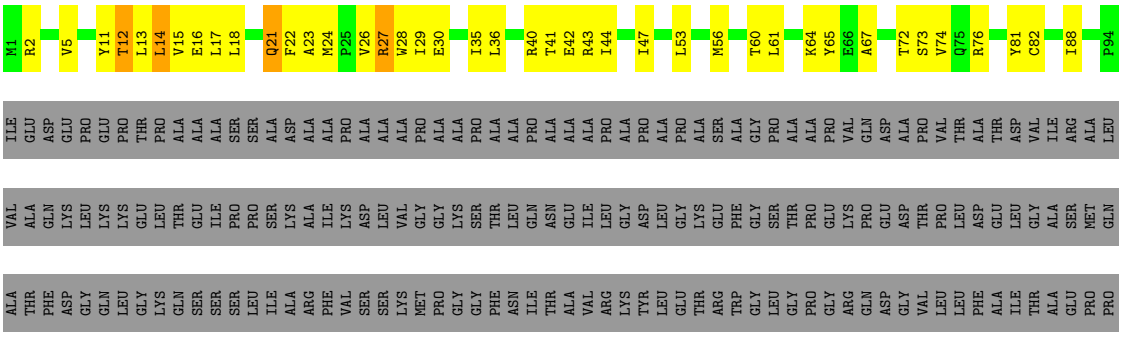


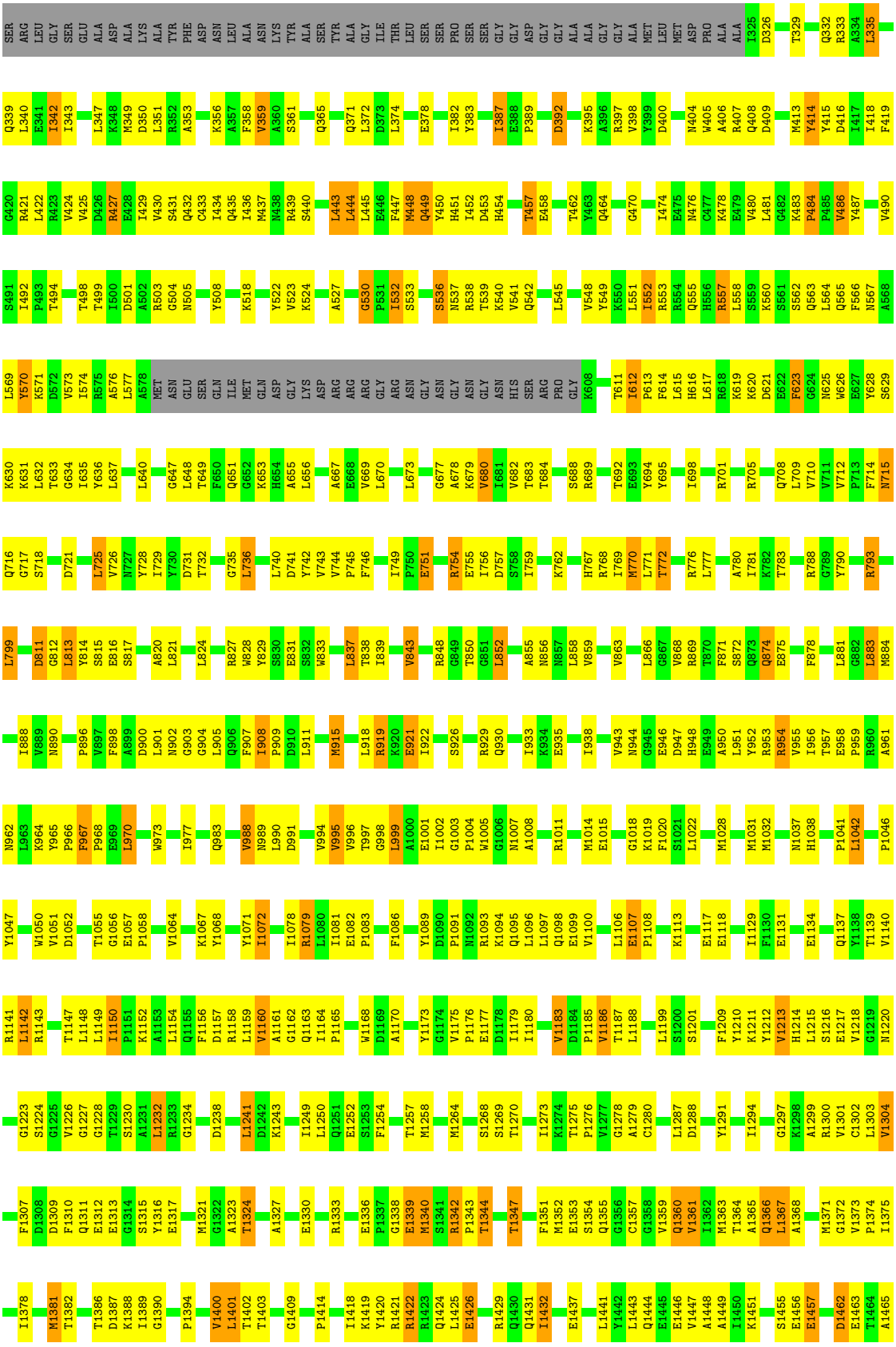


• Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

Chain E:



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Q339 L340 E341 I342 I343 L347 K348 M349 D350 L351 R352 A353 K356 A357 F358 V359 A360 S361 Q365 Q371 L372 D373 L374 E378 I382 Y383 I387 E388 P389 D392 K395 A396 R397 Y398 Y399 D400 N404 W405 A406 R407 Q408 D409 M413 Y414 Y415 D416 I417 I418 F419
G420 R421 L422 R423 V424 V425 D426 R427 E428 I429 V430 S431 Q432 C433 I434 Q435 I436 M437 N438 R439 S440 L443 L444 L445 E446 F447 M448 Q449 Y450 H451 I452 D453 H454 T457 E458 T462 Y463 Q464 G470 I474 E475 N476 C477 K478 E479 V480 L481 G482 K483 P484 P485 V486 Y487 V490
S491 I492 P493 T494 T498 T499 I500 D501 A502 R503 G504 N505 Y508 K518 A527 G530 P531 I532 S533 S536 N537 R538 T539 K540 V541 Q542 L545 V548 Y549 K550 L551 I552 R553 R554 Q555 H556 R557 L558 S559 K560 S561 S562 Q563 L564 Q565 F566 N567 A568
L569 Y570 K571 D572 V573 I574 R576 A576 L577 A578 MET ASN GLU SER GLN ILE MET GLN ASP GLY LYS ASP ARG ARG ARG GLY ARG ASN GLY ASN GLY ASN HIS SER ARG PRO GLY K608 T611 I612 P613 F614 L615 H616 L617 R618 K619 K620 D621 E622 F623 G624 N625 W626 E627 Y628 S629
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Q716 G717 S718 D721 L726 V726 N727 Y728 I729 Y730 D731 T732 G735 L736 L740 D741 Y742 V743 V744 P745 F746 I749 P750 E751 R754 E755 I756 D757 S758 I759 K762 H767 R768 I769 M770 L771 T772 R776 L777 A780 I781 K782 T783 R788 G789 Y790 R793
L799 D811 G812 L813 Y814 S815 E816 S817 A820 L821 L824 R827 W828 Y829 S830 E831 S832 W833 L837 T838 I839 V843 R848 G849 T850 G851 L852 A855 N856 N857 L858 V859 V863 L866 G867 V868 R869 T870 F871 S872 Q873 Q874 E875 F878 L881 G882 L883 M884
I888 V889 N890 P896 V897 F898 A899 D900 L901 N902 G903 G904 L905 Q906 F907 I908 P909 D910 L911 M915 L918 R919 K920 E921 I922 S926 R929 Q930 I933 K934 E935 I938 V943 N944 G945 E946 D947 H948 E949 A950 L951 Y952 R953 R954 V955 I956 T957 E958 P959 R960 A961
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Y1047 W1050 V1051 D1052 T1055 G1056 E1057 P1058 V1064 K1067 Y1068 Y1071 I1072 I1078 R1079 L1080 I1081 E1082 P1083 F1086 Y1089 D1090 P1091 N1092 R1093 K1094 Q1095 L1096 L1097 Q1098 E1099 V1100 L1106 E1107 P1108 K1113 E1117 E1118 I1129 F1130 E1131 E1134 Q1137 Y1138 T1139 V1140
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F1307 D1308 D1309 F1310 Q1311 E1312 E1313 G1314 S1315 Y1316 E1317 M1321 G1322 A1323 T1324 A1327 E1330 R1333 E1336 P1337 G1338 E1339 M1340 S1341 R1342 P1343 T1344 T1347 F1351 M1352 E1353 S1354 Q1355 G1356 C1357 G1358 V1359 Q1360 V1361 T1362 M1363 T1364 A1365 Q1366 L1367 A1368 M1371 G1372 V1373 P1374 I1375
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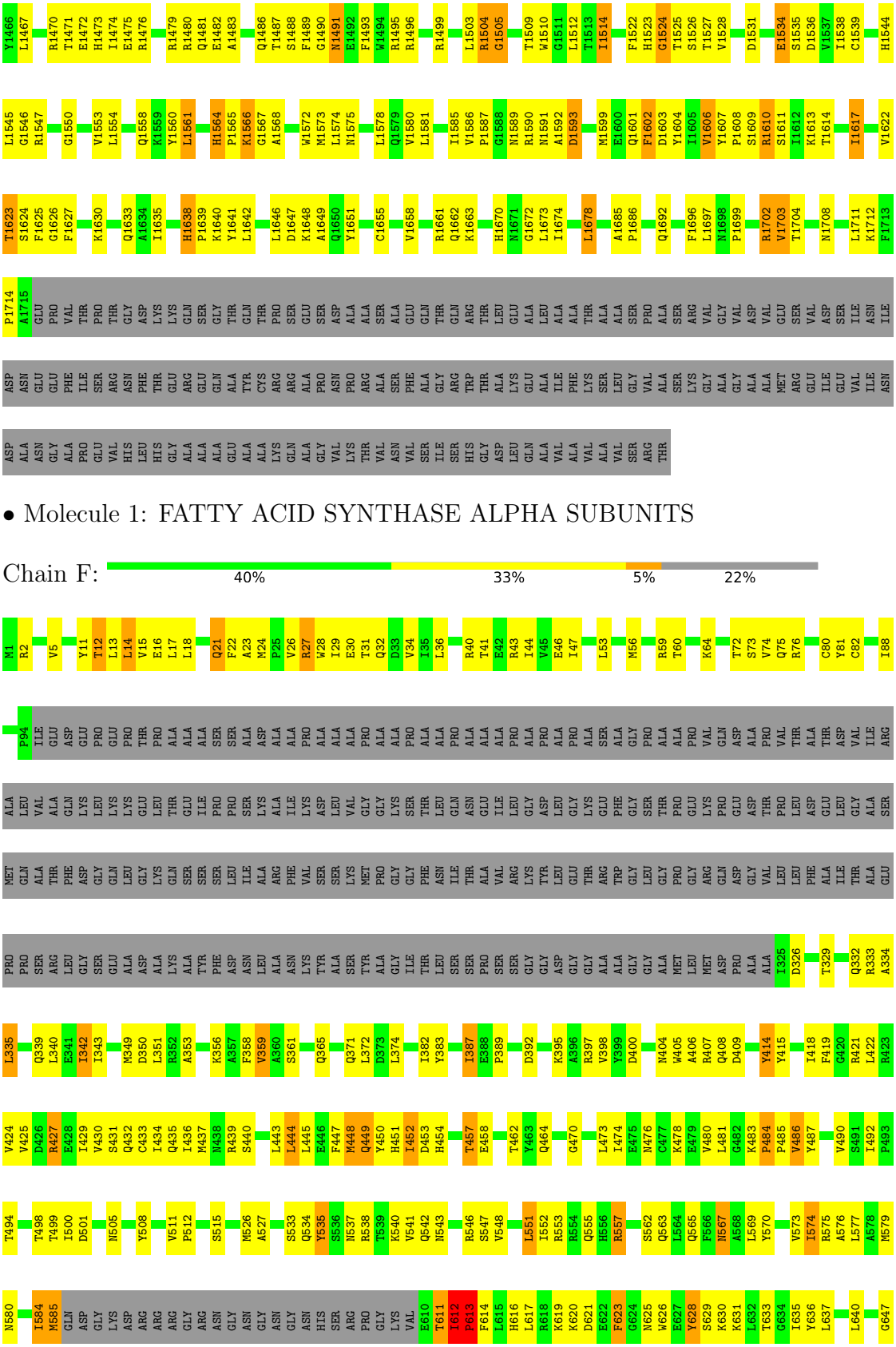
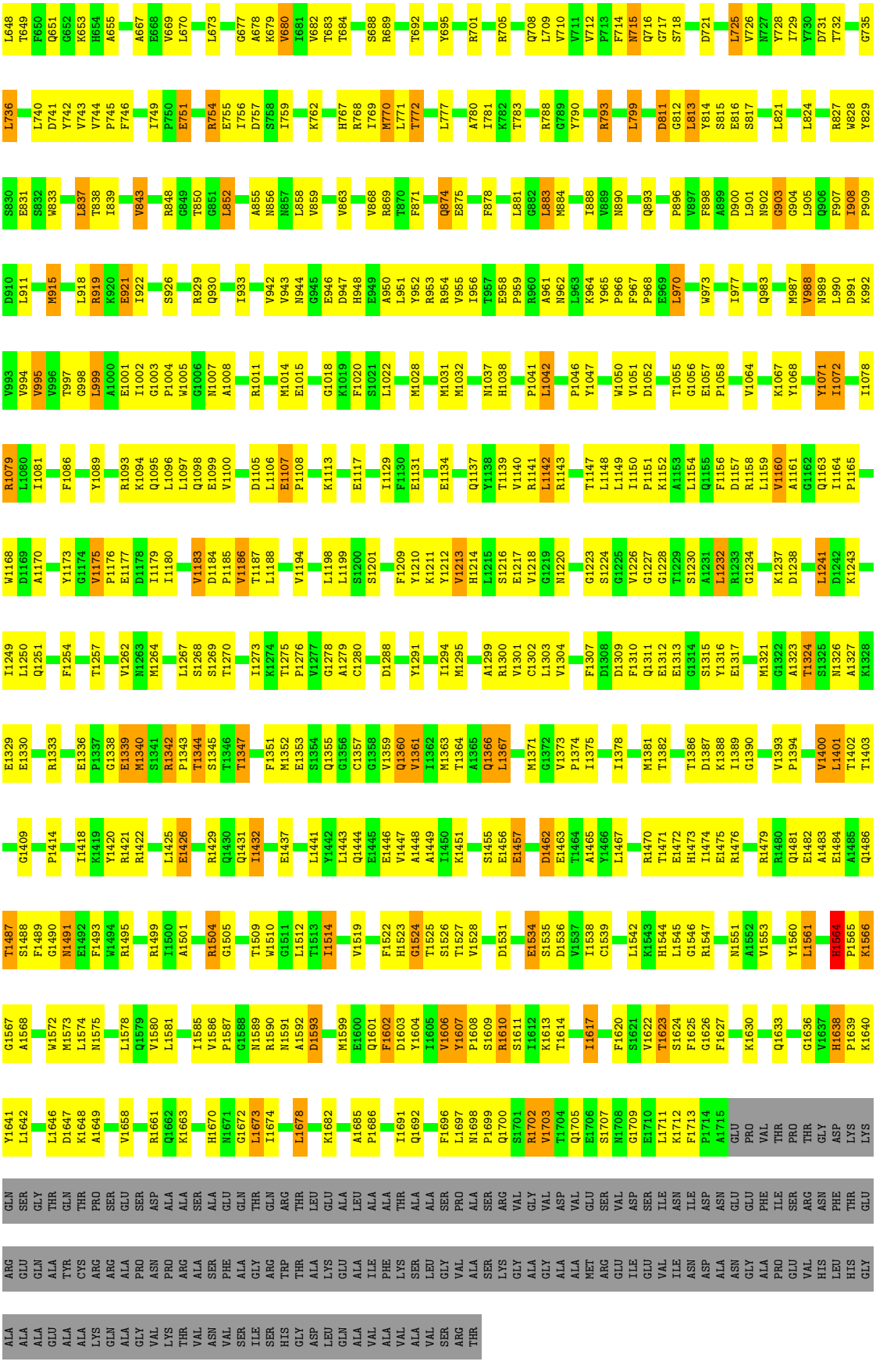


• Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

Chain F: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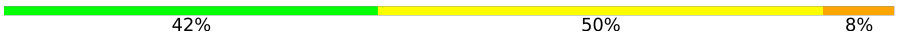
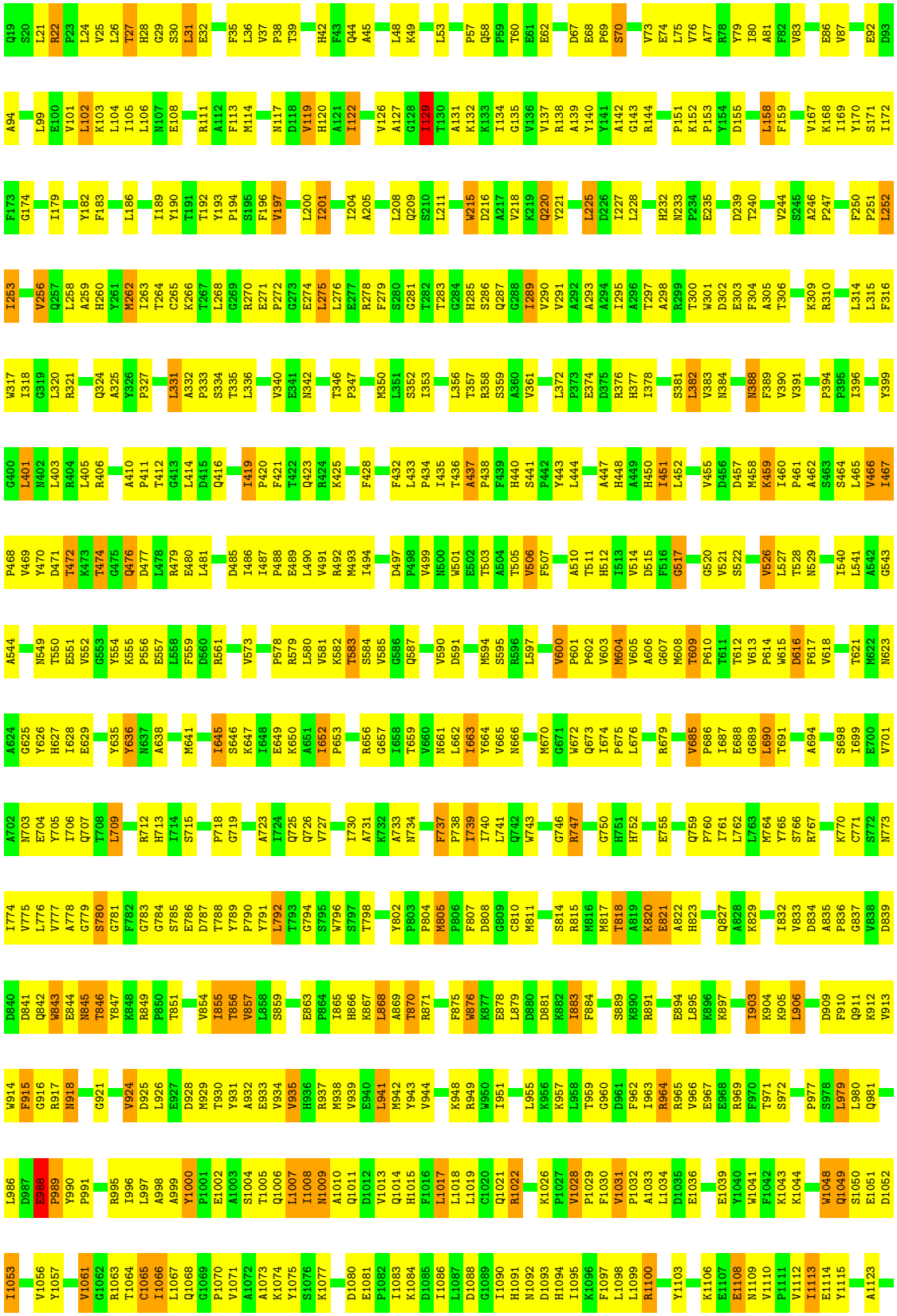
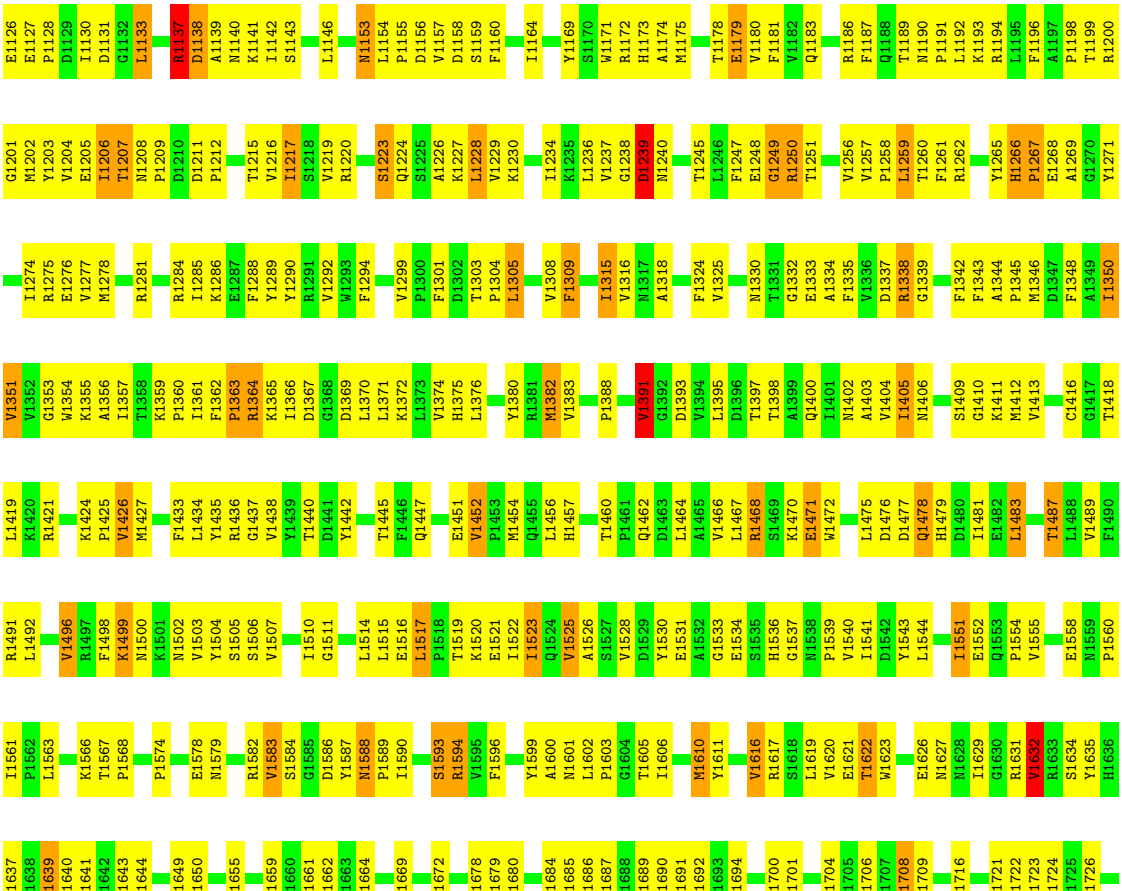
Y1641 L1642 L1646 D1647 K1648 A1649 V1658 R1661 Q1662 K1663 H1670 N1671 G1672 L1673 I1674 L1678 K1682 A1685 P1686 I1691 Q1692 F1696 L1697 N1698 P1699 Q1700 S1701 R1702 V1703 T1704 Q1705 E1706 S1707 N1708 G1709 E1710 L1711 K1712 F1713 P1714 A1715 GLU PRO VAL THR PRO THR GLY ASP LYS LYS
GLN SER GLY THR GLN THR PRO SER GLU SER ASP ALA ALA SER ALA GLU GLN THR GLN ARG THR LEU LYS GLU ALA LEU ALA ALA THR ALA ALA LYS ALA ALA ALA VAL ALA ALA
ARG GLU GLN ALA TYR CYS ARG ARG ALA PRO ASN PRO ARG ALA SER PHE ALA GLY ARG TRP THR ALA LYS GLU ALA ILE PHE LYS SER LEU VAL ALA ALA MET ARG GLU ILE GLU VAL ASP ASN GLY PRO GLU VAL HIS LEU HIS GLY
ALA ALA ALA GLU ALA ALA LYS GLN ALA GLY VAL LYS THR VAL ASN VAL SER ILE SER HIS GLY ASP LEU GLN ALA VAL ALA VAL SER ARG THR

• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

Chain G:

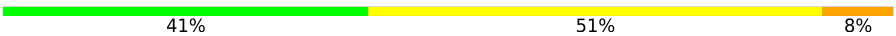


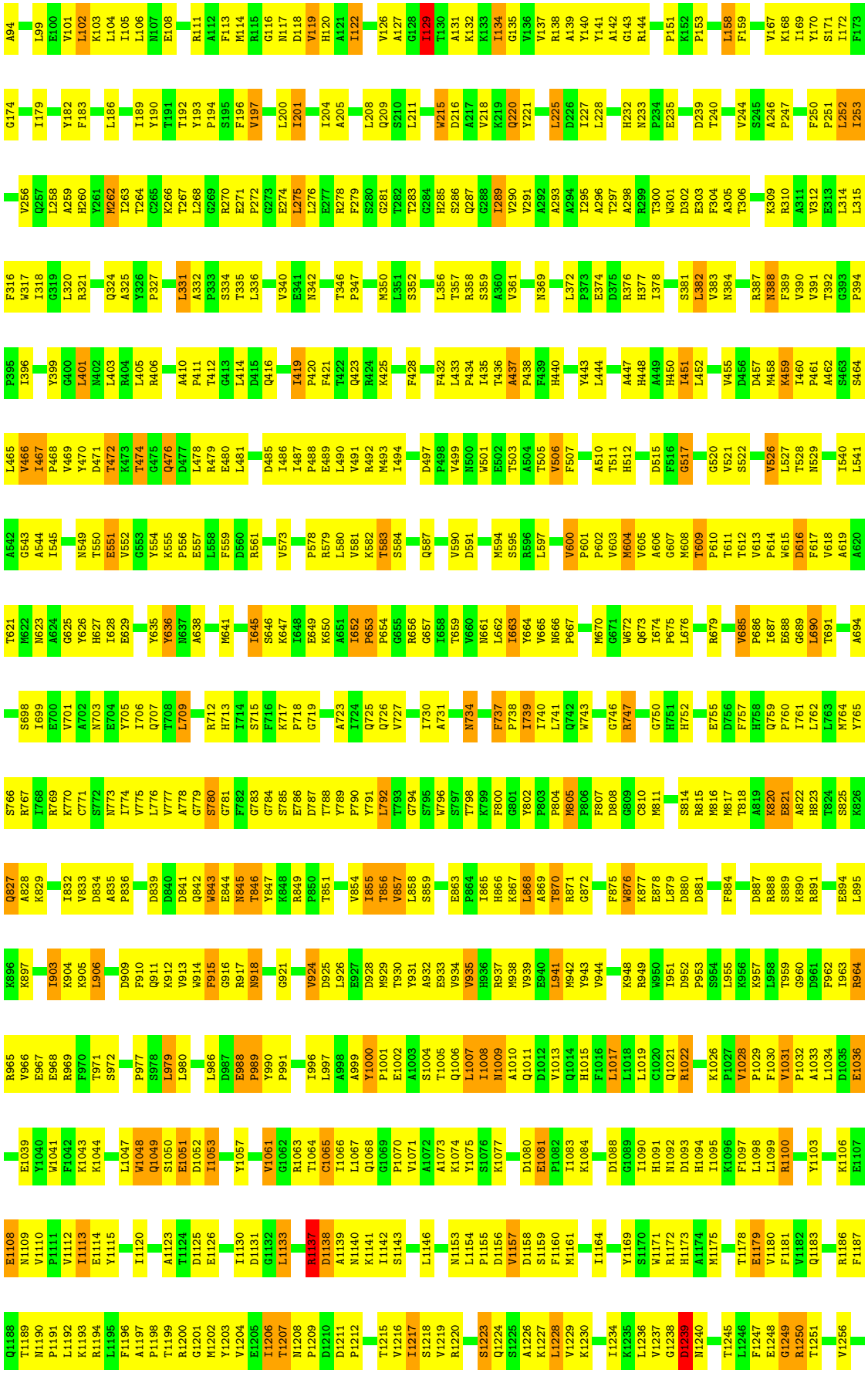


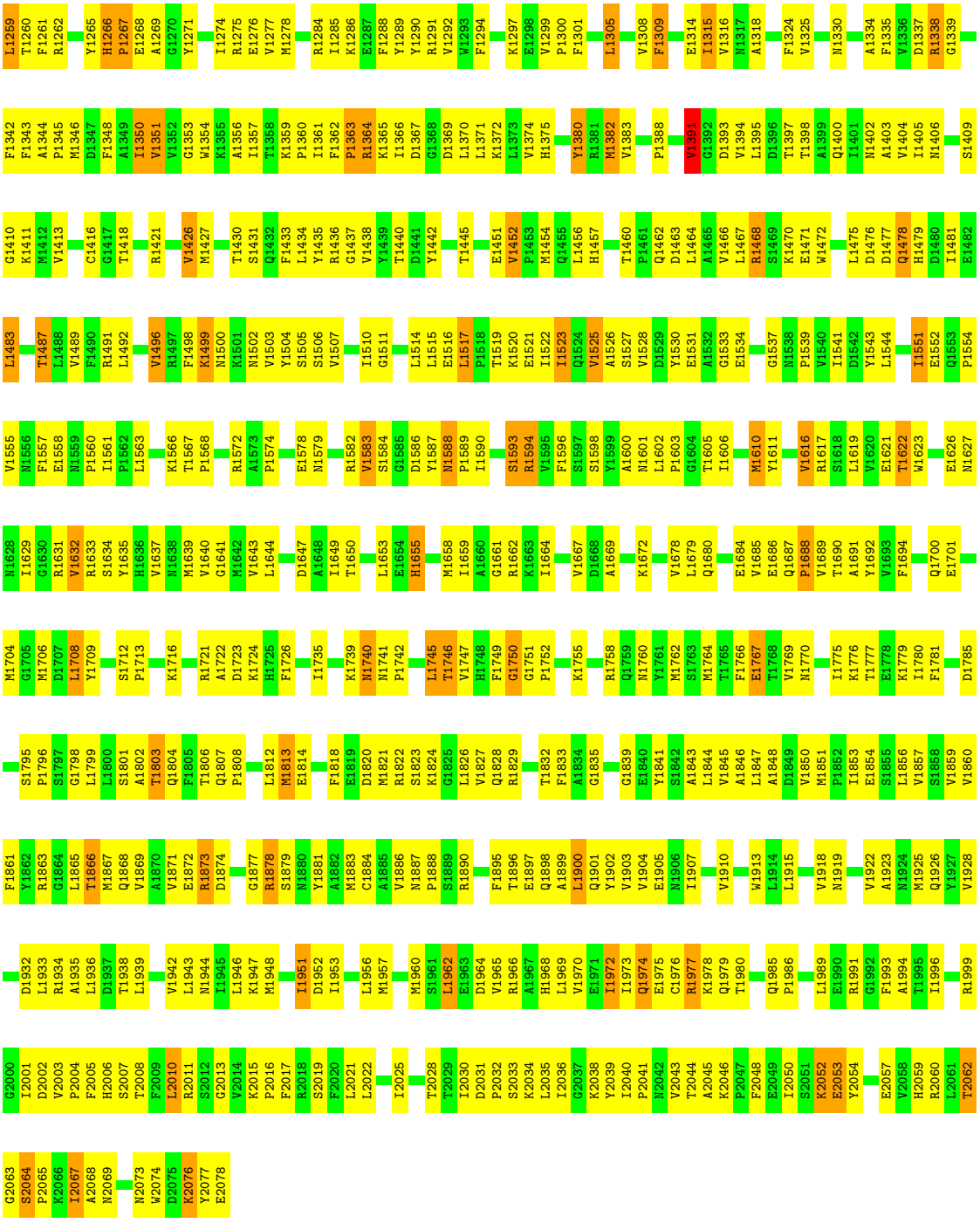


• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

Chain H:







• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

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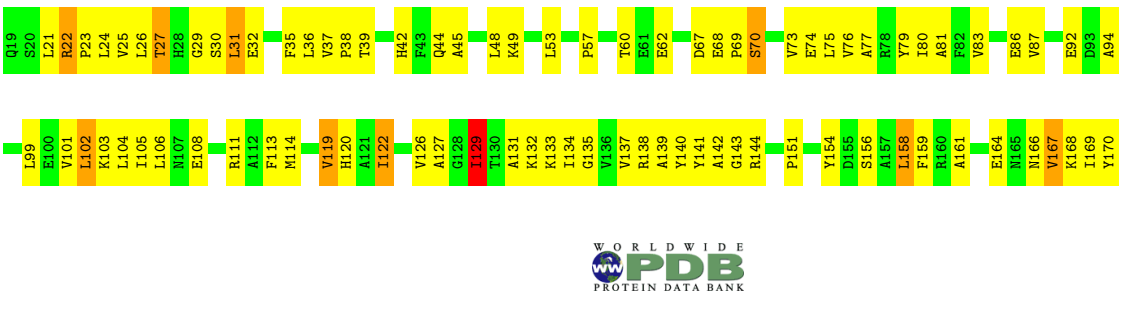

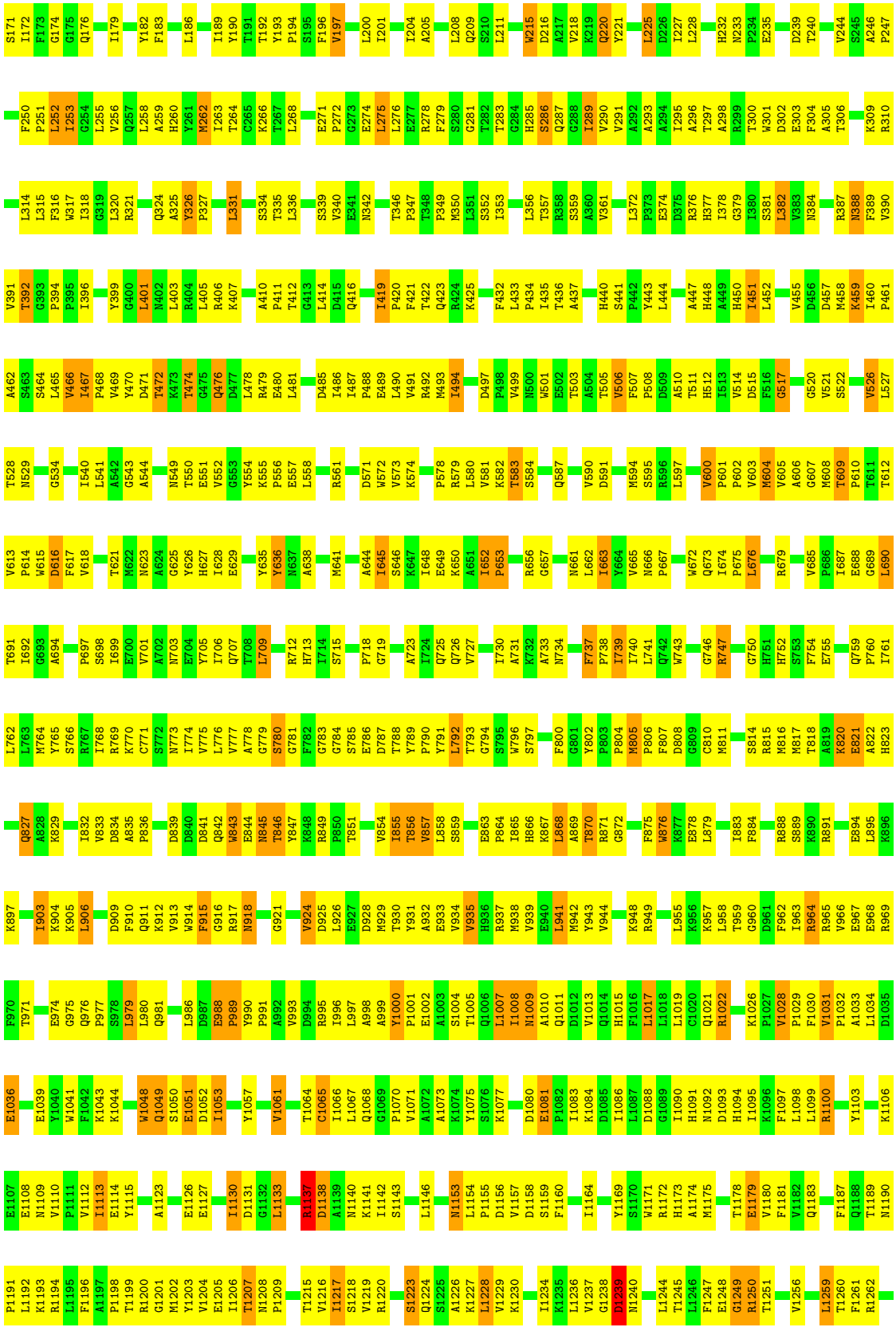
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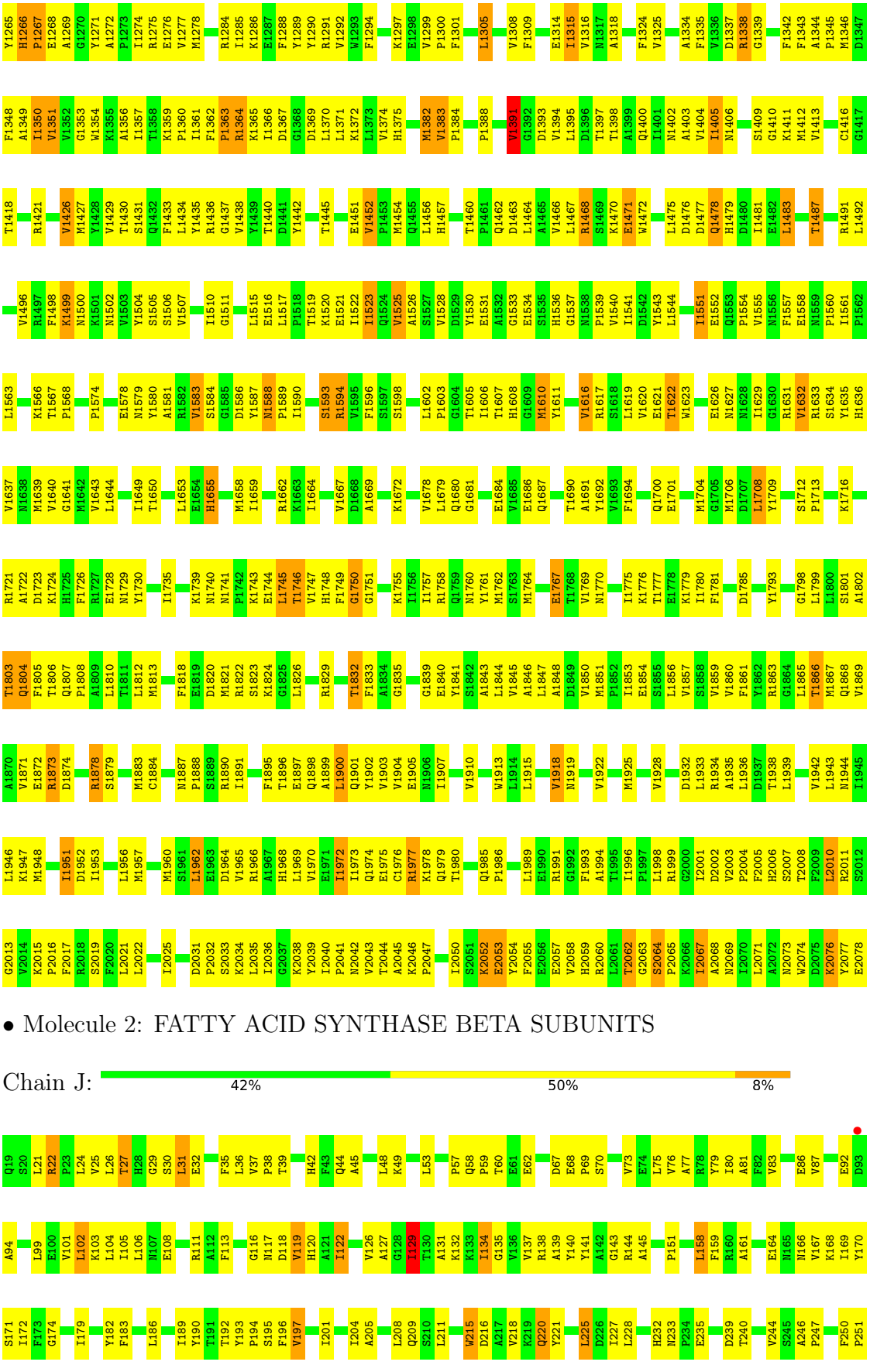
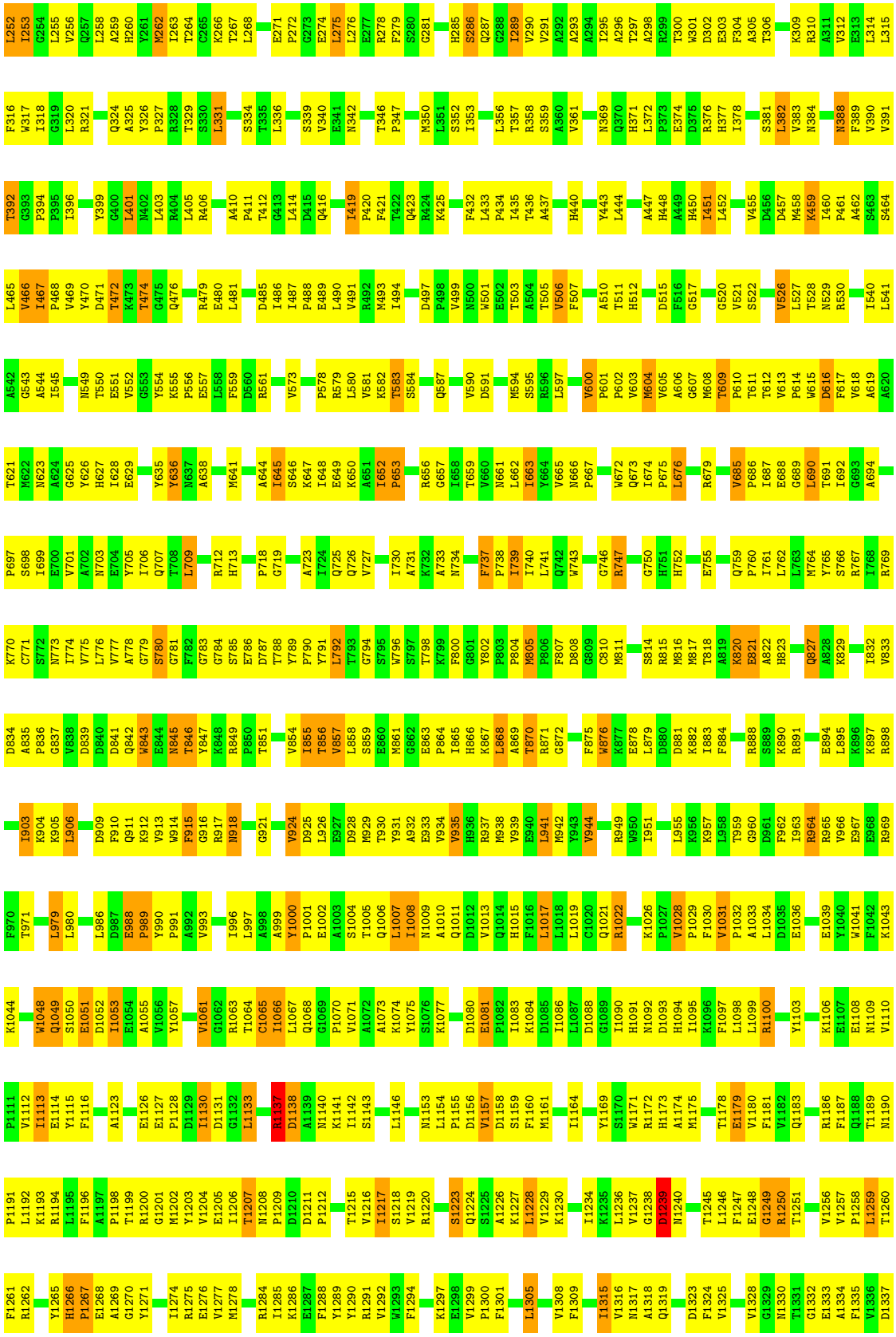
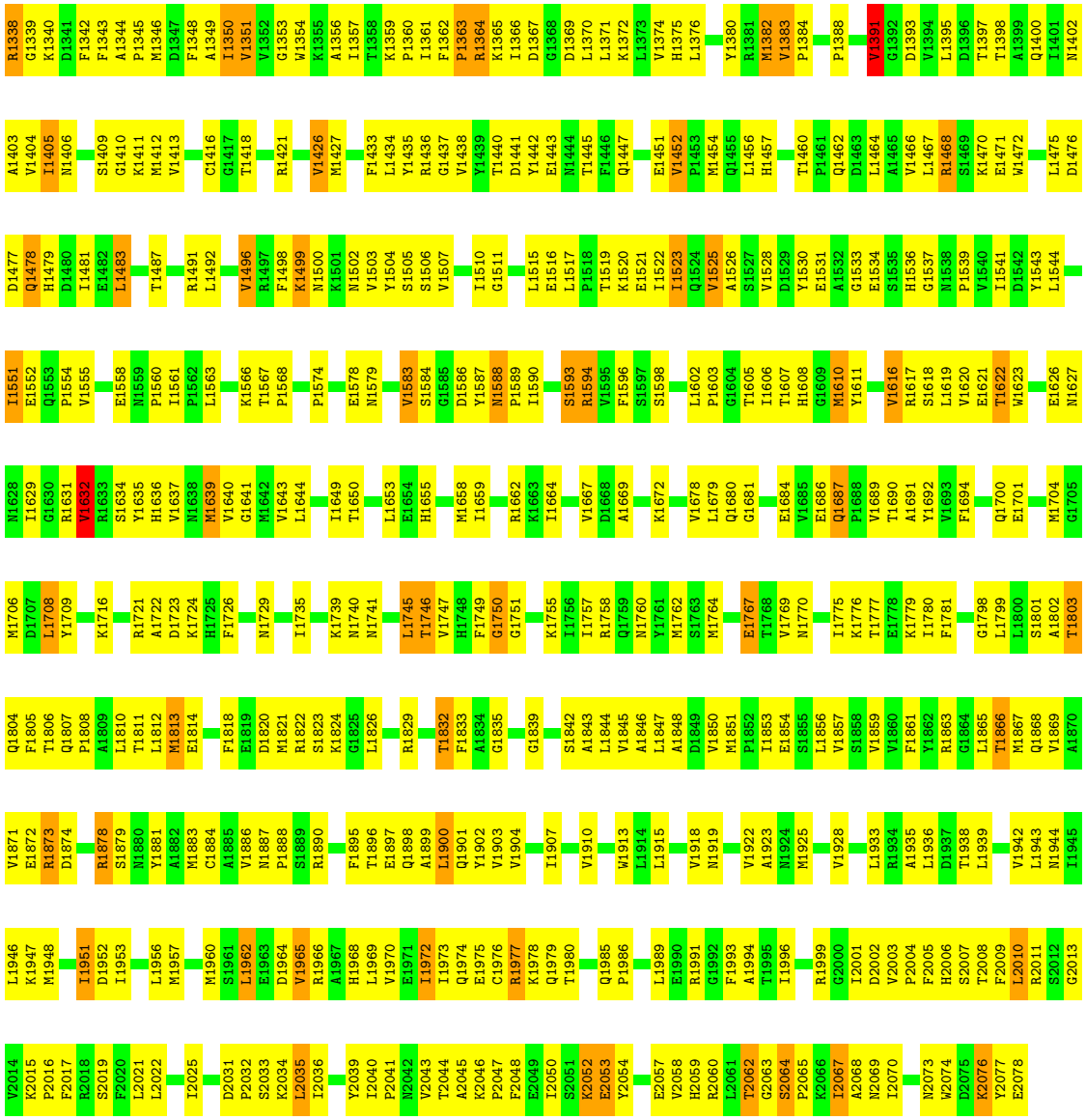


• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

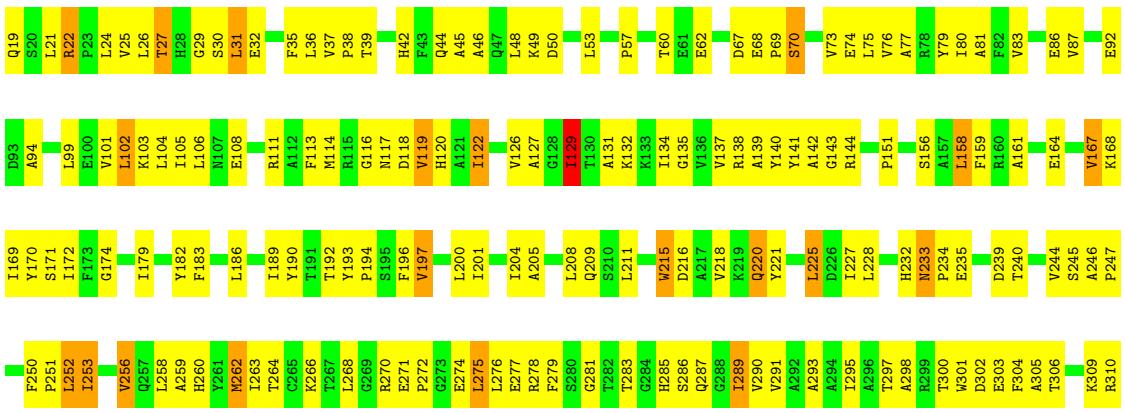
Chain J:

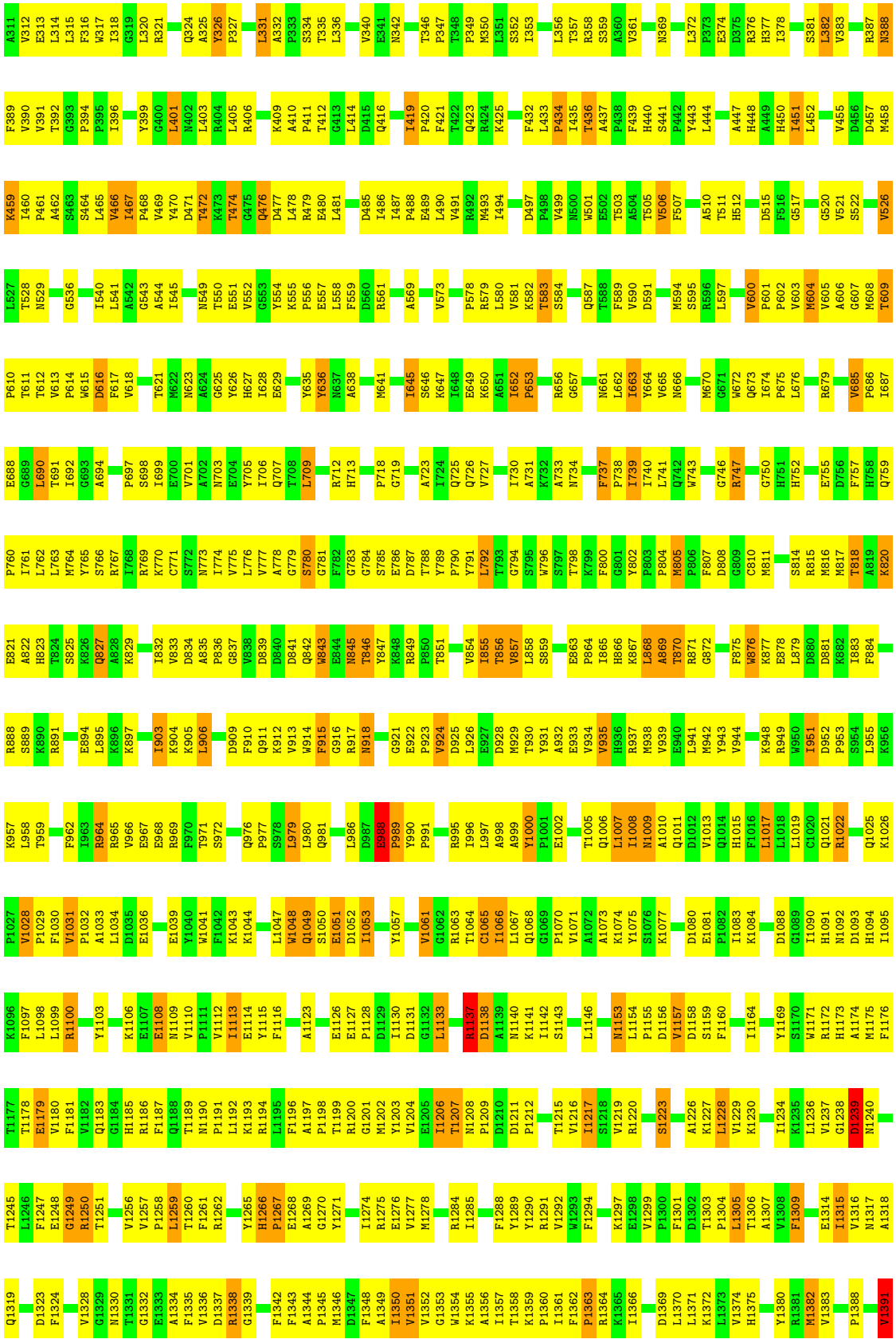


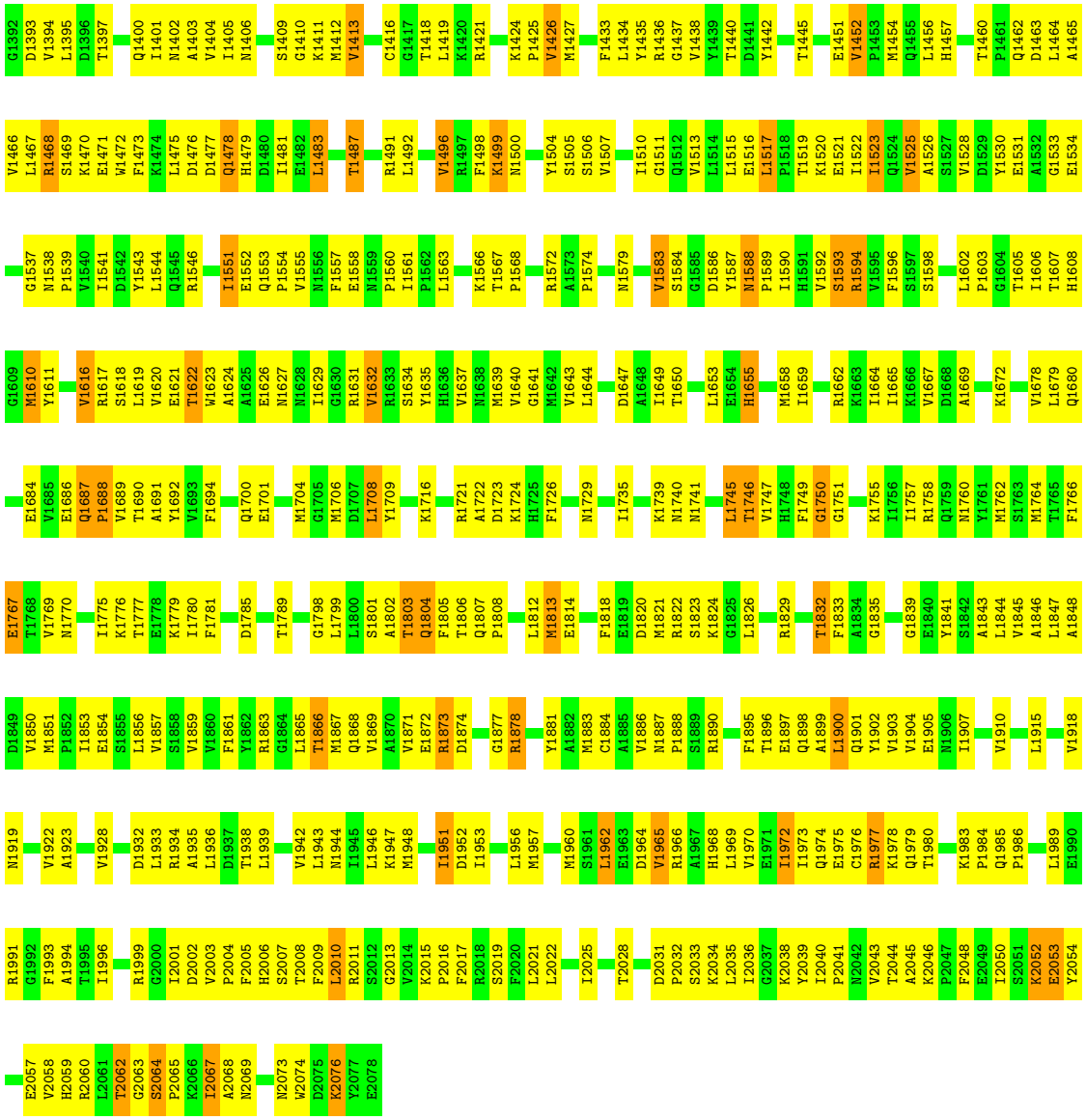


• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

Chain K:

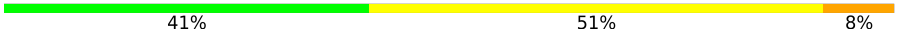


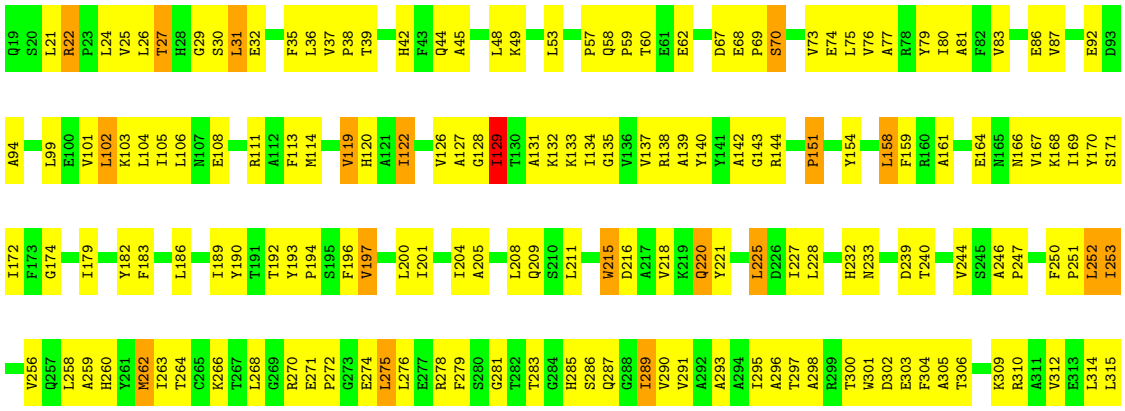


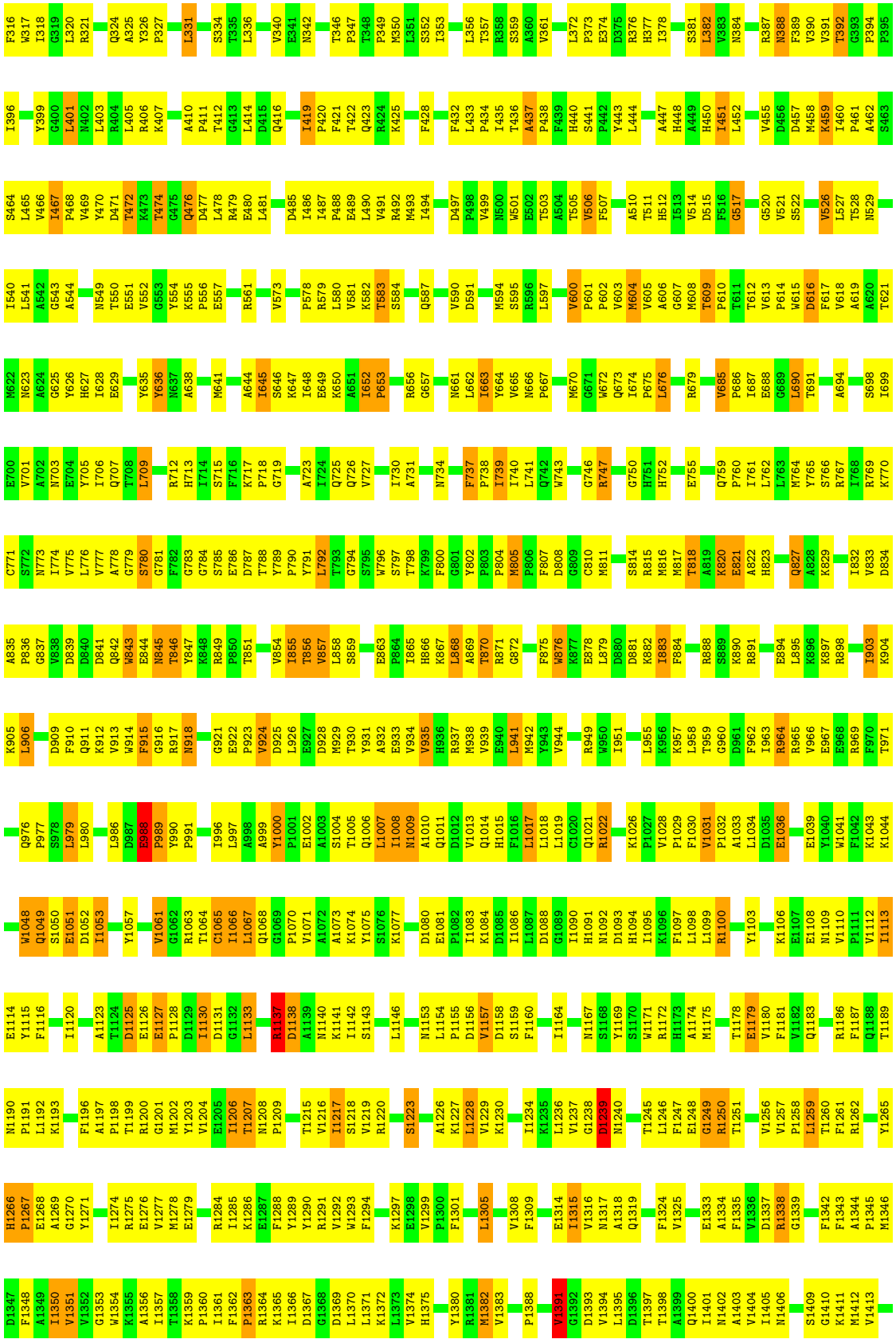


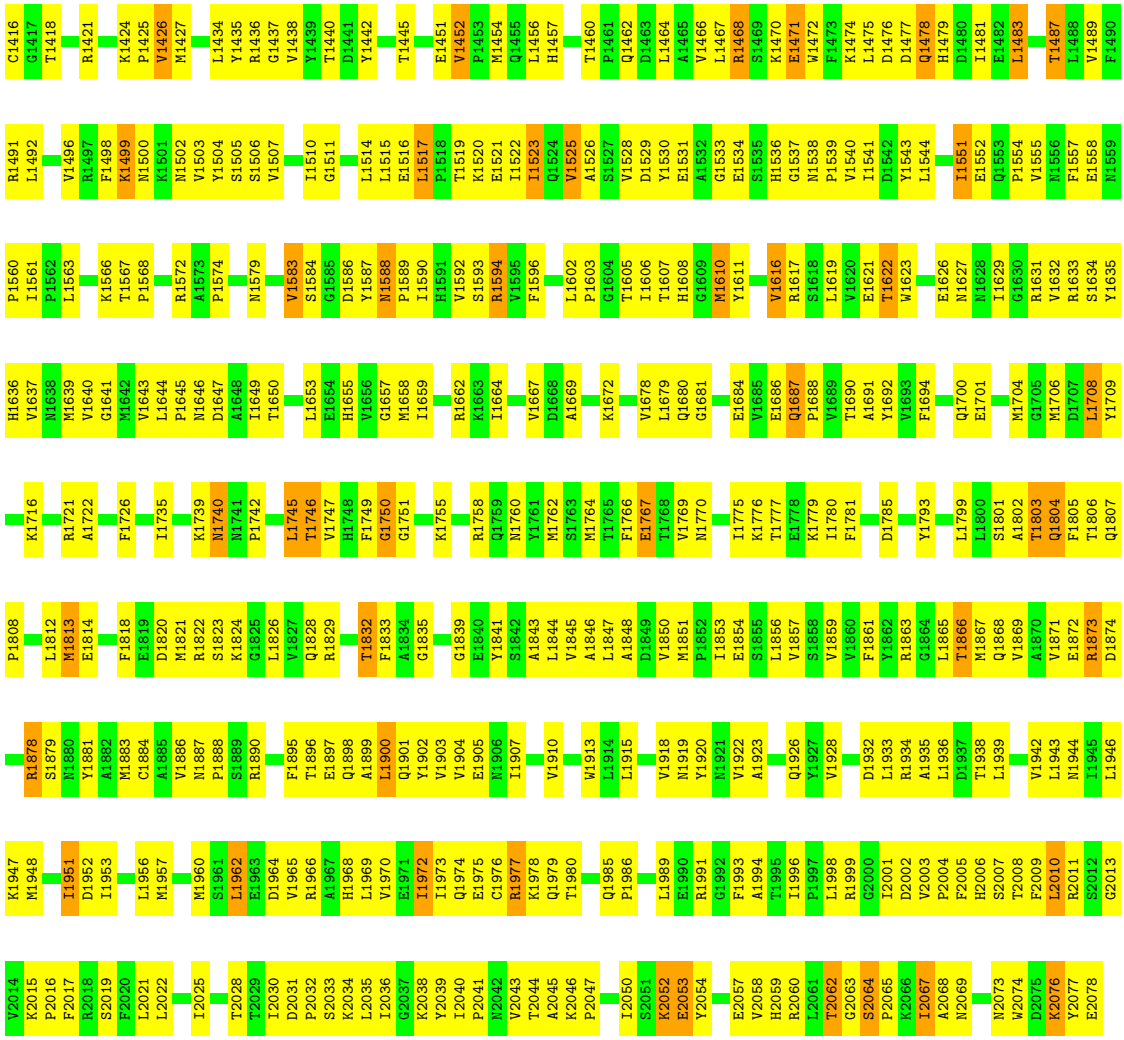
• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

Chain L:





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H1636 V1637 N1638 M1639 V1640 G1641 M1642 V1643 L1644 P1645 N1646 D1647 A1648 I1649 T1650 L1653 E1654 H1655 V1656 G1657 M1658 I1659 R1662 K1663 I1664 V1667 D1668 A1669 K1672 V1678 L1679 Q1680 G1681 E1684 V1685 E1686 Q1687 P1688 V1689 T1690 A1691 Y1692 V1693 F1694 Q1700 E1701 M1704 G1705 M1706 D1707 L1708 Y1709
K1716 R1721 A1722 F1726 I1735 K1739 N1740 N1741 P1742 L1745 T1746 V1747 H1748 F1749 G1750 G1751 K1755 R1758 Q1759 N1760 Y1761 M1762 S1763 M1764 T1765 F1766 E1767 T1768 V1769 N1770 I1775 K1776 T1777 E1778 K1779 I1780 F1781 D1785 Y1793 L1799 L1800 S1801 A1802 T1803 Q1804 F1805 T1806 Q1807
P1808 L1812 M1813 E1814 F1818 E1819 D1820 M1821 R1822 S1823 K1824 G1825 L1826 V1827 Q1828 R1829 T1832 F1833 A1834 G1835 G1839 E1840 Y1841 S1842 A1843 L1844 V1845 A1846 L1847 A1848 D1849 V1850 M1851 P1852 I1853 E1854 S1855 L1856 V1857 S1858 V1859 V1860 F1861 Y1862 R1863 G1864 L1865 T1866 M1867 Q1868 V1869 A1870 V1871 E1872 R1873 D1874
R1878 S1879 N1880 Y1881 A1882 M1883 C1884 A1885 V1886 N1887 P1888 S1889 R1890 F1895 T1896 E1897 Q1898 A1899 L1900 Q1901 Y1902 V1903 V1904 E1905 N1906 I1907 V1910 W1913 L1914 L1915 V1918 N1919 Y1920 N1921 V1922 A1923 Q1926 Y1927 V1928 D1932 L1933 R1934 A1935 L1936 D1937 T1938 L1939 V1942 L1943 N1944 I1945 L1946
K1947 M1948 I1951 D1952 I1953 L1956 M1957 M1960 S1961 L1962 E1963 D1964 V1965 R1966 A1967 H1968 L1969 V1970 E1971 I1972 I1973 Q1974 E1975 C1976 R1977 K1978 Q1979 T1980 Q1985 P1986 L1989 E1990 R1991 G1992 F1993 A1994 T1995 I1996 P1997 L1998 R1999 G2000 I2001 D2002 V2003 P2004 F2005 H2006 S2007 T2008 F2009 L2010 R2011 S2012 G2013
V2014 K2015 P2016 F2017 R2018 S2019 F2020 L2021 L2022 I2025 T2028 T2029 I2030 D2031 P2032 S2033 K2034 L2035 I2036 G2037 K2038 Y2039 I2040 P2041 N2042 V2043 T2044 A2045 K2046 P2047 I2050 S2051 K2052 E2053 Y2054 E2057 V2058 H2059 R2060 L2061 T2062 G2063 S2064 P2065 K2066 I2067 A2068 N2069 N2073 W2074 D2075 K2076 Y2077 E2078

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	216.37Å 414.43Å 221.51Å 90.00° 111.65° 90.00°	Depositor
Resolution (Å)	12.00 – 3.10 12.00 – 3.10	Depositor EDS
% Data completeness (in resolution range)	(Not available) (12.00-3.10) 89.5 (12.00-3.10)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	3.34 (at 3.13Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.290 , 0.320 0.305 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å^2)	39.5	Xtriage
Anisotropy	0.123	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.24 , 41.6	EDS
L-test for twinning[2]	$< \|L\| > = 0.21$, $< L^2 > = 0.07$	Xtriage
Estimated twinning fraction	0.276 for l,-k,h	Xtriage
F_o,F_c correlation	0.83	EDS
Total number of atoms	166671	wwPDB-VP
Average B, all atoms (Å^2)	76.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.42% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

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	0.49	0/11744	0.90	24/15873 (0.2%)
1	B	0.50	1/11801 (0.0%)	0.89	25/15949 (0.2%)
1	C	0.51	0/11785	0.90	19/15928 (0.1%)
1	D	0.49	0/11824	0.90	22/15980 (0.1%)
1	E	0.49	0/11736	0.90	25/15863 (0.2%)
1	F	0.52	1/11776 (0.0%)	0.91	24/15916 (0.2%)
2	G	0.44	0/16573	0.87	31/22516 (0.1%)
2	H	0.44	0/16573	0.88	28/22516 (0.1%)
2	I	0.44	0/16573	0.88	34/22516 (0.2%)
2	J	0.44	0/16573	0.89	29/22516 (0.1%)
2	K	0.48	0/16573	0.90	34/22516 (0.2%)
2	L	0.45	0/16573	0.88	39/22516 (0.2%)
All	All	0.47	2/170104 (0.0%)	0.89	334/230605 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	F	0	1
All	All	0	2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	1564	HIS	CG-ND1	5.12	1.43	1.38
1	B	1373	VAL	CA-CB	-5.05	1.50	1.55

All (334) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	612	ILE	CA-C-N	14.66	138.17	119.84
1	F	612	ILE	C-N-CA	14.66	138.17	119.84
1	A	484	PRO	CA-C-N	9.57	130.28	120.14
1	A	484	PRO	C-N-CA	9.57	130.28	120.14
1	E	484	PRO	CA-C-N	9.34	130.04	120.14
1	E	484	PRO	C-N-CA	9.34	130.04	120.14
1	F	585	MET	N-CA-C	9.34	137.14	111.00
2	K	1687	GLN	CA-C-N	8.91	130.98	119.84
2	K	1687	GLN	C-N-CA	8.91	130.98	119.84
1	A	483	LYS	CA-C-N	8.49	129.12	120.38
1	A	483	LYS	C-N-CA	8.49	129.12	120.38
2	L	805	MET	CA-C-N	8.46	128.47	119.76
2	L	805	MET	C-N-CA	8.46	128.47	119.76
2	G	805	MET	CA-C-N	8.23	128.24	119.76
2	G	805	MET	C-N-CA	8.23	128.24	119.76
1	C	483	LYS	CA-C-N	8.07	128.69	120.38
1	C	483	LYS	C-N-CA	8.07	128.69	120.38
1	B	483	LYS	CA-C-N	8.04	128.67	120.38
1	B	483	LYS	C-N-CA	8.04	128.67	120.38
1	C	1107	GLU	CA-C-N	8.04	127.80	119.76
1	C	1107	GLU	C-N-CA	8.04	127.80	119.76
2	I	805	MET	CA-C-N	7.96	127.98	119.78
2	I	805	MET	C-N-CA	7.96	127.98	119.78
2	H	805	MET	CA-C-N	7.72	127.71	119.76
2	H	805	MET	C-N-CA	7.72	127.71	119.76
1	B	608	LYS	N-CA-C	-7.70	89.44	111.00
1	D	484	PRO	CA-C-N	7.63	128.22	120.14
1	D	484	PRO	C-N-CA	7.63	128.22	120.14
1	D	1107	GLU	CA-C-N	7.54	127.31	119.76
1	D	1107	GLU	C-N-CA	7.54	127.31	119.76
2	I	326	TYR	CA-C-N	7.50	127.95	120.52
2	I	326	TYR	C-N-CA	7.50	127.95	120.52
1	F	1107	GLU	CA-C-N	7.47	127.23	119.76
1	F	1107	GLU	C-N-CA	7.47	127.23	119.76
1	A	1107	GLU	CA-C-N	7.47	127.23	119.76
1	A	1107	GLU	C-N-CA	7.47	127.23	119.76
1	F	483	LYS	CA-C-N	7.41	128.01	120.38
1	F	483	LYS	C-N-CA	7.41	128.01	120.38
1	A	1638	HIS	CA-C-N	7.36	127.71	119.32
1	A	1638	HIS	C-N-CA	7.36	127.71	119.32
1	E	1107	GLU	CA-C-N	7.34	127.10	119.76
1	E	1107	GLU	C-N-CA	7.34	127.10	119.76
2	J	326	TYR	CA-C-N	7.31	127.23	120.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	326	TYR	C-N-CA	7.31	127.23	120.21
2	J	805	MET	CA-C-N	7.24	127.22	119.76
2	J	805	MET	C-N-CA	7.24	127.22	119.76
2	L	129	ILE	N-CA-C	-7.24	106.08	113.10
1	B	1107	GLU	CA-C-N	7.23	126.99	119.76
1	B	1107	GLU	C-N-CA	7.23	126.99	119.76
1	E	483	LYS	CA-C-N	7.22	127.82	120.38
1	E	483	LYS	C-N-CA	7.22	127.82	120.38
2	K	129	ILE	N-CA-C	-7.22	106.10	113.10
2	K	805	MET	CA-C-N	7.21	127.18	119.76
2	K	805	MET	C-N-CA	7.21	127.18	119.76
1	D	483	LYS	CA-C-N	7.14	127.73	120.38
1	D	483	LYS	C-N-CA	7.14	127.73	120.38
2	G	129	ILE	N-CA-C	-7.08	106.23	113.10
1	D	1638	HIS	CA-C-N	6.97	127.26	119.32
1	D	1638	HIS	C-N-CA	6.97	127.26	119.32
1	E	1638	HIS	CA-C-N	6.96	127.25	119.32
1	E	1638	HIS	C-N-CA	6.96	127.25	119.32
1	B	1638	HIS	CA-C-N	6.92	127.20	119.32
1	B	1638	HIS	C-N-CA	6.92	127.20	119.32
1	C	1638	HIS	CA-C-N	6.85	127.13	119.32
1	C	1638	HIS	C-N-CA	6.85	127.13	119.32
2	J	1687	GLN	CA-C-N	6.84	128.39	119.84
2	J	1687	GLN	C-N-CA	6.84	128.39	119.84
2	L	326	TYR	CA-C-N	6.81	127.26	120.52
2	L	326	TYR	C-N-CA	6.81	127.26	120.52
2	J	129	ILE	N-CA-C	-6.79	106.51	113.10
2	K	326	TYR	CA-C-N	6.70	126.64	120.21
2	K	326	TYR	C-N-CA	6.70	126.64	120.21
1	F	611	THR	N-CA-C	6.69	118.29	108.86
2	I	129	ILE	N-CA-C	-6.66	106.64	113.10
2	L	1687	GLN	CA-C-N	6.66	128.17	119.84
2	L	1687	GLN	C-N-CA	6.66	128.17	119.84
1	C	611	THR	N-CA-C	6.65	120.34	109.24
2	H	129	ILE	N-CA-C	-6.61	106.69	113.10
2	K	737	PHE	CA-C-N	6.59	127.63	119.98
2	K	737	PHE	C-N-CA	6.59	127.63	119.98
2	I	1803	THR	N-CA-C	6.59	118.54	111.36
1	F	1638	HIS	CA-C-N	6.54	126.78	119.32
1	F	1638	HIS	C-N-CA	6.54	126.78	119.32
2	I	1031	VAL	CA-C-N	6.54	128.02	119.84
2	I	1031	VAL	C-N-CA	6.54	128.02	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	1803	THR	N-CA-C	6.47	118.41	111.36
1	E	967	PHE	N-CA-C	-6.42	102.75	110.13
2	L	737	PHE	CA-C-N	6.40	127.40	119.98
2	L	737	PHE	C-N-CA	6.40	127.40	119.98
2	I	1687	GLN	CA-C-N	6.38	127.81	119.84
2	I	1687	GLN	C-N-CA	6.38	127.81	119.84
2	G	1031	VAL	CA-C-N	6.37	127.80	119.84
2	G	1031	VAL	C-N-CA	6.37	127.80	119.84
2	J	2046	LYS	CA-C-N	6.35	127.78	119.84
2	J	2046	LYS	C-N-CA	6.35	127.78	119.84
1	B	1003	GLY	CA-C-N	6.34	126.03	119.56
1	B	1003	GLY	C-N-CA	6.34	126.03	119.56
1	F	585	MET	CA-C-O	6.31	131.53	120.80
1	E	1003	GLY	CA-C-N	6.31	126.00	119.56
1	E	1003	GLY	C-N-CA	6.31	126.00	119.56
1	E	612	ILE	CA-C-N	6.30	127.72	119.84
1	E	612	ILE	C-N-CA	6.30	127.72	119.84
2	G	737	PHE	CA-C-N	6.30	127.28	119.98
2	G	737	PHE	C-N-CA	6.30	127.28	119.98
2	L	2046	LYS	CA-C-N	6.27	127.68	119.84
2	L	2046	LYS	C-N-CA	6.27	127.68	119.84
1	C	1228	GLY	N-CA-C	-6.25	106.29	115.72
2	J	233	ASN	CA-C-N	6.24	126.14	119.28
2	J	233	ASN	C-N-CA	6.24	126.14	119.28
2	L	1000	TYR	CA-C-N	6.21	127.61	119.84
2	L	1000	TYR	C-N-CA	6.21	127.61	119.84
1	B	1228	GLY	N-CA-C	-6.21	106.34	115.72
2	K	1803	THR	N-CA-C	6.21	118.13	111.36
2	H	737	PHE	CA-C-N	6.20	127.17	119.98
2	H	737	PHE	C-N-CA	6.20	127.17	119.98
1	D	1228	GLY	N-CA-C	-6.19	106.37	115.72
2	I	1000	TYR	CA-C-N	6.19	127.58	119.84
2	I	1000	TYR	C-N-CA	6.19	127.58	119.84
1	C	1003	GLY	CA-C-N	6.18	125.87	119.56
1	C	1003	GLY	C-N-CA	6.18	125.87	119.56
1	F	484	PRO	CA-C-N	6.16	126.08	119.85
1	F	484	PRO	C-N-CA	6.16	126.08	119.85
2	H	2046	LYS	CA-C-N	6.15	127.53	119.84
2	H	2046	LYS	C-N-CA	6.15	127.53	119.84
1	E	1228	GLY	N-CA-C	-6.15	106.43	115.72
1	F	1228	GLY	N-CA-C	-6.13	106.46	115.72
2	I	1157	VAL	N-CA-C	-6.12	104.68	113.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	1803	THR	N-CA-C	6.12	117.95	111.28
2	K	1344	ALA	CA-C-N	6.11	126.13	119.90
2	K	1344	ALA	C-N-CA	6.11	126.13	119.90
2	K	1000	TYR	CA-C-N	6.09	127.45	119.84
2	K	1000	TYR	C-N-CA	6.09	127.45	119.84
2	K	2046	LYS	CA-C-N	6.09	127.45	119.84
2	K	2046	LYS	C-N-CA	6.09	127.45	119.84
1	C	484	PRO	CA-C-N	6.08	126.58	120.14
1	C	484	PRO	C-N-CA	6.08	126.58	120.14
2	J	737	PHE	CA-C-N	6.07	127.03	119.98
2	J	737	PHE	C-N-CA	6.07	127.03	119.98
2	J	1803	THR	N-CA-C	6.07	117.97	111.36
2	K	1031	VAL	CA-C-N	6.07	127.42	119.84
2	K	1031	VAL	C-N-CA	6.07	127.42	119.84
1	D	749	ILE	CB-CA-C	-6.05	104.26	110.13
2	H	1031	VAL	CA-C-N	6.04	127.39	119.84
2	H	1031	VAL	C-N-CA	6.04	127.39	119.84
2	L	1031	VAL	CA-C-N	6.02	127.37	119.84
2	L	1031	VAL	C-N-CA	6.02	127.37	119.84
2	G	2046	LYS	CA-C-N	6.02	127.36	119.84
2	G	2046	LYS	C-N-CA	6.02	127.36	119.84
2	G	1137	ARG	N-CA-C	6.01	117.53	108.46
2	G	988	GLU	CA-C-N	5.99	127.33	119.84
2	G	988	GLU	C-N-CA	5.99	127.33	119.84
2	J	1137	ARG	N-CA-C	5.97	117.47	108.46
2	H	1137	ARG	N-CA-C	5.96	117.46	108.46
1	A	612	ILE	CA-C-N	5.92	127.24	119.84
1	A	612	ILE	C-N-CA	5.92	127.24	119.84
1	F	1003	GLY	CA-C-N	5.91	125.59	119.56
1	F	1003	GLY	C-N-CA	5.91	125.59	119.56
1	B	749	ILE	CB-CA-C	-5.91	104.40	110.13
2	L	437	ALA	N-CA-C	5.89	113.52	108.22
1	D	1607	TYR	CA-C-N	5.88	126.08	119.90
1	D	1607	TYR	C-N-CA	5.88	126.08	119.90
2	K	1306	THR	N-CA-C	-5.88	105.37	112.54
2	I	1137	ARG	N-CA-C	5.87	117.32	108.46
2	I	22	ARG	CA-C-N	5.85	127.15	119.84
2	I	22	ARG	C-N-CA	5.85	127.15	119.84
2	J	1031	VAL	CA-C-N	5.84	127.14	119.84
2	J	1031	VAL	C-N-CA	5.84	127.14	119.84
2	K	233	ASN	CA-C-N	5.84	125.70	119.28
2	K	233	ASN	C-N-CA	5.84	125.70	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	1175	VAL	CA-C-N	5.84	125.77	119.76
1	C	1175	VAL	C-N-CA	5.84	125.77	119.76
2	J	1000	TYR	CA-C-N	5.82	127.12	119.84
2	J	1000	TYR	C-N-CA	5.82	127.12	119.84
2	I	233	ASN	CA-C-N	5.81	125.67	119.28
2	I	233	ASN	C-N-CA	5.81	125.67	119.28
2	K	1137	ARG	N-CA-C	5.81	117.24	108.46
2	K	22	ARG	CA-C-N	5.78	127.07	119.84
2	K	22	ARG	C-N-CA	5.78	127.07	119.84
1	A	1175	VAL	CA-C-N	5.78	125.71	119.76
1	A	1175	VAL	C-N-CA	5.78	125.71	119.76
2	G	437	ALA	N-CA-C	5.77	113.41	108.22
2	L	1137	ARG	N-CA-C	5.77	117.17	108.46
2	I	737	PHE	CA-C-N	5.76	126.67	119.98
2	I	737	PHE	C-N-CA	5.76	126.67	119.98
2	H	233	ASN	CA-C-N	5.76	125.62	119.28
2	H	233	ASN	C-N-CA	5.76	125.62	119.28
1	F	1175	VAL	CA-C-N	5.76	125.69	119.76
1	F	1175	VAL	C-N-CA	5.76	125.69	119.76
2	I	437	ALA	N-CA-C	5.75	113.39	108.22
1	B	484	PRO	CA-C-N	5.74	125.65	119.85
1	B	484	PRO	C-N-CA	5.74	125.65	119.85
2	H	1157	VAL	N-CA-C	-5.74	104.61	113.16
2	H	1000	TYR	CA-C-N	5.72	127.00	119.84
2	H	1000	TYR	C-N-CA	5.72	127.00	119.84
1	B	1258	MET	N-CA-C	-5.72	104.73	110.97
1	B	1175	VAL	CA-C-N	5.71	125.65	119.76
1	B	1175	VAL	C-N-CA	5.71	125.65	119.76
2	L	1951	ILE	N-CA-C	5.70	116.26	110.05
2	G	1803	THR	N-CA-C	5.69	117.56	111.36
2	I	2046	LYS	CA-C-N	5.68	126.94	119.84
2	I	2046	LYS	C-N-CA	5.68	126.94	119.84
1	D	612	ILE	CA-C-N	5.67	126.74	120.45
1	D	612	ILE	C-N-CA	5.67	126.74	120.45
1	C	1607	TYR	CA-C-N	5.67	125.85	119.90
1	C	1607	TYR	C-N-CA	5.67	125.85	119.90
2	H	22	ARG	CA-C-N	5.65	126.90	119.84
2	H	22	ARG	C-N-CA	5.65	126.90	119.84
2	H	437	ALA	N-CA-C	5.65	113.30	108.22
2	G	1344	ALA	CA-C-N	5.64	125.66	119.90
2	G	1344	ALA	C-N-CA	5.64	125.66	119.90
1	F	1279	ALA	CB-CA-C	-5.63	110.06	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	1344	ALA	CA-C-N	5.63	125.65	119.90
2	L	1344	ALA	C-N-CA	5.63	125.65	119.90
2	K	1157	VAL	N-CA-C	-5.62	104.79	113.16
2	H	1344	ALA	CA-C-N	5.61	125.62	119.90
2	H	1344	ALA	C-N-CA	5.61	125.62	119.90
2	I	517	GLY	CA-C-N	5.61	125.37	119.76
2	I	517	GLY	C-N-CA	5.61	125.37	119.76
1	C	749	ILE	CB-CA-C	-5.57	104.72	110.13
1	F	1607	TYR	CA-C-N	5.57	125.75	119.90
1	F	1607	TYR	C-N-CA	5.57	125.75	119.90
2	J	437	ALA	N-CA-C	5.56	113.22	108.22
1	A	1607	TYR	CA-C-N	5.55	125.73	119.90
1	A	1607	TYR	C-N-CA	5.55	125.73	119.90
2	G	1139	ALA	N-CA-C	-5.55	106.18	113.17
2	H	1951	ILE	N-CA-C	5.55	116.10	110.05
2	L	1157	VAL	N-CA-C	-5.53	104.92	113.16
2	G	1157	VAL	N-CA-C	-5.52	104.93	113.16
2	K	437	ALA	N-CA-C	5.52	113.19	108.22
2	J	22	ARG	CA-C-N	5.52	126.74	119.84
2	J	22	ARG	C-N-CA	5.52	126.74	119.84
1	A	579	MET	N-CA-C	5.52	126.45	111.00
2	J	1337	ASP	N-CA-C	5.51	117.29	111.28
2	H	1337	ASP	N-CA-C	5.51	117.29	111.28
2	K	1951	ILE	N-CA-C	5.49	116.03	110.05
1	A	486	VAL	N-CA-C	5.49	116.64	108.46
2	J	1391	VAL	N-CA-C	5.49	115.69	110.53
1	A	1339	GLU	N-CA-C	-5.48	103.46	111.30
2	L	1337	ASP	N-CA-C	5.48	117.25	111.28
2	I	1344	ALA	CA-C-N	5.47	125.47	119.90
2	I	1344	ALA	C-N-CA	5.47	125.47	119.90
2	H	1391	VAL	N-CA-C	5.44	115.64	110.53
1	E	1150	ILE	CA-C-N	5.42	125.32	119.85
1	E	1150	ILE	C-N-CA	5.42	125.32	119.85
2	L	22	ARG	CA-C-N	5.40	126.59	119.84
2	L	22	ARG	C-N-CA	5.40	126.59	119.84
2	G	1337	ASP	N-CA-C	5.39	117.16	111.28
2	J	1503	VAL	N-CA-C	5.38	115.84	107.28
1	A	1258	MET	N-CA-C	-5.38	105.11	110.97
1	E	1339	GLU	N-CA-C	-5.37	103.62	111.30
2	L	1391	VAL	N-CA-C	5.36	115.57	110.53
2	I	1337	ASP	N-CA-C	5.35	117.11	111.28
1	E	1258	MET	N-CA-C	-5.34	105.15	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	1391	VAL	N-CA-C	5.34	115.55	110.53
1	E	392	ASP	CA-C-N	5.34	126.51	119.84
1	E	392	ASP	C-N-CA	5.34	126.51	119.84
2	K	1391	VAL	N-CA-C	5.33	115.53	110.53
2	H	1503	VAL	N-CA-C	5.32	115.74	107.28
1	D	1175	VAL	CA-C-N	5.31	125.23	119.76
1	D	1175	VAL	C-N-CA	5.31	125.23	119.76
2	G	22	ARG	CA-C-N	5.30	126.47	119.84
2	G	22	ARG	C-N-CA	5.30	126.47	119.84
1	E	749	ILE	CA-C-N	5.30	126.47	119.84
1	E	749	ILE	C-N-CA	5.30	126.47	119.84
2	G	233	ASN	CA-C-N	5.30	125.11	119.28
2	G	233	ASN	C-N-CA	5.30	125.11	119.28
2	K	1553	GLN	CA-C-N	5.28	125.57	119.92
2	K	1553	GLN	C-N-CA	5.28	125.57	119.92
2	G	2030	ILE	N-CA-C	5.28	116.18	108.58
1	D	613	PRO	N-CA-C	5.28	120.94	114.35
1	A	749	ILE	CB-CA-C	-5.27	105.01	110.13
1	B	749	ILE	CA-C-N	5.27	126.42	119.84
1	B	749	ILE	C-N-CA	5.27	126.42	119.84
1	B	609	VAL	N-CA-C	5.26	120.29	109.34
2	J	1344	ALA	CA-C-N	5.26	125.27	119.90
2	J	1344	ALA	C-N-CA	5.26	125.27	119.90
1	C	1258	MET	N-CA-C	-5.25	105.25	110.97
2	G	1000	TYR	CA-C-N	5.25	126.40	119.84
2	G	1000	TYR	C-N-CA	5.25	126.40	119.84
1	A	1279	ALA	CB-CA-C	-5.24	110.51	116.54
1	D	1164	ILE	CA-C-N	5.22	125.22	119.90
1	D	1164	ILE	C-N-CA	5.22	125.22	119.90
1	F	1339	GLU	N-CA-C	-5.20	103.86	111.30
2	L	1125	ASP	CB-CA-C	-5.18	103.15	111.39
1	D	486	VAL	N-CA-C	5.17	116.16	108.46
1	B	1145	GLY	N-CA-C	-5.15	107.76	113.79
1	C	342	ILE	CB-CA-C	-5.14	105.35	112.24
2	H	517	GLY	CA-C-N	5.14	125.54	119.99
2	H	517	GLY	C-N-CA	5.14	125.54	119.99
2	J	1157	VAL	N-CA-C	-5.14	105.50	113.16
2	L	1127	GLU	CA-C-N	5.14	126.26	119.84
2	L	1127	GLU	C-N-CA	5.14	126.26	119.84
2	I	1272	ALA	CA-C-N	5.13	124.74	119.56
2	I	1272	ALA	C-N-CA	5.13	124.74	119.56
2	K	988	GLU	CA-C-N	5.12	126.24	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	K	988	GLU	C-N-CA	5.12	126.24	119.84
1	D	1340	MET	N-CA-C	-5.12	106.44	113.30
2	G	517	GLY	CA-C-N	5.12	125.52	119.99
2	G	517	GLY	C-N-CA	5.12	125.52	119.99
1	B	486	VAL	N-CA-C	5.12	116.09	108.46
1	E	1279	ALA	CB-CA-C	-5.11	110.66	116.54
1	E	530	GLY	CA-C-N	5.11	125.39	119.47
1	E	530	GLY	C-N-CA	5.11	125.39	119.47
2	L	1503	VAL	N-CA-C	5.10	115.39	107.28
2	J	1951	ILE	N-CA-C	5.10	115.61	110.05
2	L	988	GLU	CA-C-N	5.10	126.21	119.84
2	L	988	GLU	C-N-CA	5.10	126.21	119.84
1	A	530	GLY	CA-C-N	5.09	125.38	119.47
1	A	530	GLY	C-N-CA	5.09	125.38	119.47
1	D	1706	GLU	N-CA-C	5.08	116.40	109.18
2	G	1503	VAL	N-CA-C	5.08	115.36	107.28
1	B	392	ASP	CA-C-N	5.07	125.35	119.47
1	B	392	ASP	C-N-CA	5.07	125.35	119.47
2	I	1127	GLU	CA-C-N	5.06	126.16	119.84
2	I	1127	GLU	C-N-CA	5.06	126.16	119.84
2	L	233	ASN	CA-C-N	5.05	124.83	119.28
2	L	233	ASN	C-N-CA	5.05	124.83	119.28
1	B	1339	GLU	N-CA-C	-5.04	104.10	111.30
2	K	1538	ASN	CA-C-N	5.04	124.70	119.56
2	K	1538	ASN	C-N-CA	5.04	124.70	119.56
2	G	1951	ILE	N-CA-C	5.03	115.54	110.05
2	L	1538	ASN	CA-C-N	5.03	124.69	119.56
2	L	1538	ASN	C-N-CA	5.03	124.69	119.56
2	L	1657	GLY	N-CA-C	5.03	118.49	111.19
2	I	1391	VAL	N-CA-C	5.03	115.25	110.53
1	B	1713	PHE	N-CA-C	-5.02	103.70	109.93
2	I	1951	ILE	N-CA-C	5.02	115.52	110.05
1	F	749	ILE	CA-C-N	5.01	126.11	119.84
1	F	749	ILE	C-N-CA	5.01	126.11	119.84
1	A	1003	GLY	CA-C-N	5.01	126.10	119.84
1	A	1003	GLY	C-N-CA	5.01	126.10	119.84
2	H	1139	ALA	N-CA-C	-5.00	106.87	113.17
2	L	517	GLY	CA-C-N	5.00	125.39	119.99
2	L	517	GLY	C-N-CA	5.00	125.39	119.99

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	578	ALA	Peptide
1	F	584	ILE	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11514	0	11476	778	0
1	B	11571	0	11529	745	1
1	C	11555	0	11507	727	0
1	D	11593	0	11552	762	0
1	E	11506	0	11467	775	0
1	F	11546	0	11499	737	0
2	G	16200	0	16081	1237	1
2	H	16200	0	16081	1270	1
2	I	16200	0	16081	1293	0
2	J	16200	0	16081	1262	0
2	K	16200	0	16081	1318	1
2	L	16200	0	16081	1273	0
3	G	31	0	19	10	0
3	H	31	0	19	11	0
3	I	31	0	19	9	0
3	J	31	0	19	9	0
3	K	31	0	19	12	0
3	L	31	0	19	9	0
All	All	166671	0	165630	11515	2

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 35.

All (11515) 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)
2:H:43:PHE:HB2	2:I:22:ARG:NH2	1.54	1.21
2:K:1594:ARG:HG2	2:K:1594:ARG:HH11	1.05	1.20
2:H:1594:ARG:HG2	2:H:1594:ARG:HH11	1.02	1.17
1:E:1610:ARG:HG2	1:E:1610:ARG:HH11	1.00	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1594:ARG:HG2	2:L:1594:ARG:HH11	1.03	1.16
1:C:1268:SER:HB3	1:F:1389:ILE:HG13	1.14	1.14
1:F:1504:ARG:HH11	1:F:1504:ARG:HG3	1.00	1.14
1:B:1268:SER:HB3	1:D:1389:ILE:HG13	1.19	1.13
1:F:1610:ARG:HG2	1:F:1610:ARG:HH11	1.01	1.13
1:A:1610:ARG:HG2	1:A:1610:ARG:HH11	1.00	1.13
2:J:1594:ARG:HG2	2:J:1594:ARG:HH11	0.98	1.12
1:B:427:ARG:HH12	1:B:492:ILE:HG12	1.02	1.12
1:E:1504:ARG:HH11	1:E:1504:ARG:HG3	1.02	1.12
1:B:1389:ILE:HG13	1:D:1268:SER:HB3	1.17	1.12
1:D:1610:ARG:HG2	1:D:1610:ARG:HH11	1.06	1.12
1:C:1610:ARG:HG2	1:C:1610:ARG:HH11	1.08	1.11
1:A:427:ARG:HH11	1:A:427:ARG:HG3	1.16	1.11
1:D:1504:ARG:HG3	1:D:1504:ARG:HH11	1.02	1.11
2:G:374:GLU:HA	2:G:377:HIS:CD2	1.86	1.11
2:I:374:GLU:HA	2:I:377:HIS:CD2	1.85	1.11
2:I:1594:ARG:HG2	2:I:1594:ARG:HH11	0.98	1.11
2:L:374:GLU:HA	2:L:377:HIS:CD2	1.86	1.10
1:A:1504:ARG:HG3	1:A:1504:ARG:HH11	1.03	1.10
2:H:374:GLU:HA	2:H:377:HIS:CD2	1.85	1.10
2:J:374:GLU:HA	2:J:377:HIS:CD2	1.87	1.10
1:B:1610:ARG:HH11	1:B:1610:ARG:HG2	1.01	1.09
1:F:427:ARG:HH11	1:F:427:ARG:HG3	1.13	1.09
2:I:1767:GLU:HB2	2:I:2016:PRO:HG3	1.29	1.09
1:A:1268:SER:HB3	1:E:1389:ILE:HG13	1.19	1.08
1:B:1504:ARG:HH11	1:B:1504:ARG:HG3	0.99	1.08
1:E:557:ARG:HH11	1:E:557:ARG:HG3	1.17	1.08
2:G:1594:ARG:HG2	2:G:1594:ARG:HH11	1.05	1.08
2:K:374:GLU:HA	2:K:377:HIS:CD2	1.87	1.08
1:C:1504:ARG:HH11	1:C:1504:ARG:HG3	0.97	1.07
1:B:1499:ARG:HD3	1:D:1476:ARG:HH12	1.14	1.07
1:B:427:ARG:HG3	1:B:427:ARG:HH11	1.13	1.07
1:D:427:ARG:HH11	1:D:427:ARG:HG3	1.16	1.06
2:J:1338:ARG:HH21	2:L:327:PRO:HD2	1.12	1.06
1:F:1703:VAL:HG11	1:F:1711:LEU:HB3	1.37	1.06
2:H:327:PRO:HD2	2:I:1338:ARG:HH21	1.18	1.06
2:J:1767:GLU:HB2	2:J:2016:PRO:HG3	1.08	1.06
2:L:511:THR:HG22	2:L:512:HIS:CD2	1.92	1.05
1:C:1389:ILE:HG13	1:F:1268:SER:HB3	1.13	1.05
1:C:427:ARG:HH11	1:C:427:ARG:HG3	1.16	1.04
2:J:1346:MET:HB2	2:J:1427:MET:HE1	1.38	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:557:ARG:HG3	1:D:557:ARG:HH11	1.17	1.04
1:C:1342:ARG:NH1	1:C:1347:THR:HB	1.73	1.04
1:C:1702:ARG:HG3	1:C:1702:ARG:HH11	1.22	1.04
1:E:427:ARG:HG3	1:E:427:ARG:HH11	1.16	1.03
2:I:511:THR:HG22	2:I:512:HIS:CD2	1.92	1.03
2:G:2052:LYS:H	2:G:2052:LYS:HE2	1.22	1.03
1:F:427:ARG:HH12	1:F:492:ILE:HG12	1.24	1.03
2:I:2052:LYS:H	2:I:2052:LYS:HE2	1.23	1.03
1:D:527:ALA:HB2	1:D:637:LEU:HD22	1.40	1.03
1:D:1342:ARG:NH1	1:D:1347:THR:HB	1.73	1.03
1:C:339:GLN:HE21	1:E:339:GLN:HE21	1.04	1.02
1:F:961:ALA:HB2	1:F:1022:LEU:HD12	1.41	1.02
1:F:989:ASN:H	1:F:1491:ASN:HD21	1.03	1.02
2:L:1985:GLN:HG3	2:L:1986:PRO:HD3	1.39	1.02
1:A:557:ARG:HG3	1:A:557:ARG:HH11	1.19	1.02
1:A:1389:ILE:HG13	1:E:1268:SER:HB3	1.08	1.02
2:H:1346:MET:HB2	2:H:1427:MET:HE1	1.40	1.02
2:H:511:THR:HG22	2:H:512:HIS:CD2	1.95	1.02
1:A:1342:ARG:NH1	1:A:1347:THR:HB	1.74	1.02
2:J:327:PRO:HD2	2:K:1338:ARG:HH21	1.22	1.02
2:J:595:SER:HB3	2:J:602:PRO:HG3	1.42	1.02
2:J:2005:PHE:HA	2:J:2010:LEU:HD11	1.41	1.02
1:F:1342:ARG:NH1	1:F:1347:THR:HB	1.73	1.01
2:G:2005:PHE:HA	2:G:2010:LEU:HD11	1.40	1.01
1:F:1702:ARG:HG3	1:F:1702:ARG:HH11	1.25	1.01
2:G:1844:LEU:HB3	2:G:1850:VAL:HG21	1.39	1.01
2:H:1844:LEU:HB3	2:H:1850:VAL:HG21	1.40	1.01
2:L:1123:ALA:HB3	2:L:1126:GLU:HG3	1.41	1.01
2:L:1844:LEU:HB3	2:L:1850:VAL:HG21	1.38	1.01
2:G:1346:MET:HB2	2:G:1427:MET:HE1	1.39	1.01
2:G:1985:GLN:HG3	2:G:1986:PRO:HD3	1.39	1.01
2:K:501:TRP:HE1	2:K:528:THR:HG22	1.24	1.01
2:K:1844:LEU:HB3	2:K:1850:VAL:HG21	1.41	1.01
1:D:1702:ARG:HH11	1:D:1702:ARG:HG3	1.22	1.01
2:K:1346:MET:HB2	2:K:1427:MET:HE1	1.42	1.01
2:L:300:THR:HB	2:L:303:GLU:H	1.26	1.01
2:L:1468:ARG:HG2	2:L:1468:ARG:HH11	1.24	1.01
1:B:989:ASN:H	1:B:1491:ASN:HD21	1.01	1.00
1:E:1702:ARG:HH11	1:E:1702:ARG:HG3	1.25	1.00
1:B:1499:ARG:HD3	1:D:1476:ARG:NH1	1.76	1.00
2:I:374:GLU:HA	2:I:377:HIS:HD2	1.24	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1346:MET:HB2	2:I:1427:MET:HE1	1.36	1.00
2:K:2052:LYS:H	2:K:2052:LYS:HE2	1.22	1.00
2:L:1346:MET:HB2	2:L:1427:MET:HE1	1.40	1.00
2:I:1985:GLN:HG3	2:I:1986:PRO:HD3	1.40	1.00
2:L:2005:PHE:HA	2:L:2010:LEU:HD11	1.43	1.00
1:D:989:ASN:H	1:D:1491:ASN:HD21	1.08	1.00
2:H:2052:LYS:HE2	2:H:2052:LYS:H	1.24	1.00
2:J:2052:LYS:HE2	2:J:2052:LYS:H	1.22	1.00
2:L:595:SER:HB3	2:L:602:PRO:HG3	1.44	1.00
2:L:2052:LYS:H	2:L:2052:LYS:HE2	1.26	1.00
2:G:511:THR:HG22	2:G:512:HIS:CD2	1.97	0.99
2:I:300:THR:HB	2:I:303:GLU:H	1.24	0.99
2:I:1468:ARG:HG2	2:I:1468:ARG:HH11	1.25	0.99
2:K:1985:GLN:HG3	2:K:1986:PRO:HD3	1.44	0.99
2:G:501:TRP:HE1	2:G:528:THR:HG22	1.27	0.99
2:I:1844:LEU:HB3	2:I:1850:VAL:HG21	1.42	0.99
1:B:427:ARG:HH11	1:B:427:ARG:CG	1.76	0.99
1:C:427:ARG:HH12	1:C:492:ILE:HG12	1.26	0.99
1:D:1234:GLY:HA2	1:D:1238:ASP:HB2	1.44	0.99
2:G:374:GLU:HA	2:G:377:HIS:HD2	1.26	0.99
1:A:1079:ARG:HG2	1:A:1079:ARG:HH11	1.27	0.98
2:G:300:THR:HB	2:G:303:GLU:H	1.27	0.98
2:G:1468:ARG:HG2	2:G:1468:ARG:HH11	1.25	0.98
2:H:300:THR:HB	2:H:303:GLU:H	1.28	0.98
2:I:501:TRP:HE1	2:I:528:THR:HG22	1.24	0.98
2:K:300:THR:HB	2:K:303:GLU:H	1.28	0.98
2:K:468:PRO:HG3	2:K:479:ARG:NH2	1.79	0.98
2:L:374:GLU:HA	2:L:377:HIS:HD2	1.26	0.98
1:A:1702:ARG:HH11	1:A:1702:ARG:HG3	1.27	0.98
1:B:1702:ARG:HH11	1:B:1702:ARG:HG3	1.25	0.98
2:H:2005:PHE:HA	2:H:2010:LEU:HD11	1.43	0.98
2:I:595:SER:HB3	2:I:602:PRO:HG3	1.46	0.98
2:G:595:SER:HB3	2:G:602:PRO:HG3	1.44	0.98
1:A:1476:ARG:HH12	1:E:1499:ARG:HD3	1.26	0.98
2:J:1468:ARG:HG2	2:J:1468:ARG:HH11	1.24	0.98
2:K:595:SER:HB3	2:K:602:PRO:HG3	1.42	0.98
2:J:511:THR:HG22	2:J:512:HIS:CD2	1.99	0.98
2:J:300:THR:HB	2:J:303:GLU:H	1.24	0.98
2:L:501:TRP:HE1	2:L:528:THR:HG22	1.25	0.98
1:D:961:ALA:HB2	1:D:1022:LEU:HD12	1.42	0.98
1:D:1079:ARG:HG2	1:D:1079:ARG:HH11	1.29	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1338:ARG:NH2	2:L:327:PRO:HD2	1.78	0.98
2:K:511:THR:HG22	2:K:512:HIS:CD2	1.99	0.97
2:H:43:PHE:HB2	2:I:22:ARG:HH21	1.23	0.97
2:J:1985:GLN:HG3	2:J:1986:PRO:HD3	1.44	0.97
2:K:1468:ARG:HG2	2:K:1468:ARG:HH11	1.25	0.97
1:B:1234:GLY:HA2	1:B:1238:ASP:HB2	1.43	0.97
1:B:1342:ARG:NH1	1:B:1347:THR:HB	1.77	0.97
1:F:427:ARG:HH11	1:F:427:ARG:CG	1.77	0.97
2:I:2005:PHE:HA	2:I:2010:LEU:HD11	1.43	0.97
2:J:1767:GLU:HB2	2:J:2016:PRO:CG	1.94	0.97
2:H:501:TRP:HE1	2:H:528:THR:HG22	1.29	0.97
1:E:570:TYR:O	1:E:574:ILE:HG13	1.63	0.97
1:E:1342:ARG:NH1	1:E:1347:THR:HB	1.78	0.97
2:H:1468:ARG:HG2	2:H:1468:ARG:HH11	1.27	0.96
1:A:339:GLN:HE21	1:D:339:GLN:HE21	1.00	0.96
1:F:855:ALA:HA	1:F:919:ARG:HH21	1.29	0.96
2:G:327:PRO:HD2	2:H:1338:ARG:HH21	1.30	0.96
2:I:1594:ARG:HG2	2:I:1594:ARG:NH1	1.77	0.96
2:J:501:TRP:HE1	2:J:528:THR:HG22	1.28	0.96
1:A:1234:GLY:HA2	1:A:1238:ASP:HB2	1.45	0.96
1:F:1234:GLY:HA2	1:F:1238:ASP:HB2	1.44	0.96
1:B:961:ALA:HB2	1:B:1022:LEU:HD12	1.44	0.96
1:C:1234:GLY:HA2	1:C:1238:ASP:HB2	1.46	0.96
1:E:427:ARG:HH11	1:E:427:ARG:CG	1.79	0.96
1:D:427:ARG:HH11	1:D:427:ARG:CG	1.79	0.96
1:A:427:ARG:HH11	1:A:427:ARG:CG	1.79	0.95
1:A:1703:VAL:HG11	1:A:1711:LEU:HB3	1.45	0.95
1:C:831:GLU:HG2	1:D:755:GLU:HG2	1.48	0.95
1:D:1702:ARG:HH11	1:D:1702:ARG:CG	1.79	0.95
1:E:1234:GLY:HA2	1:E:1238:ASP:HB2	1.45	0.95
2:K:2005:PHE:HA	2:K:2010:LEU:HD11	1.46	0.95
1:B:1703:VAL:HG11	1:B:1711:LEU:HB3	1.47	0.95
1:E:689:ARG:HD2	1:E:1339:GLU:CD	1.90	0.95
2:H:595:SER:HB3	2:H:602:PRO:HG3	1.46	0.95
1:A:989:ASN:H	1:A:1491:ASN:HD21	0.97	0.95
1:B:1005:TRP:NE1	1:B:1561:LEU:HD22	1.81	0.95
2:G:1948:MET:HE2	2:G:1948:MET:HA	1.47	0.95
1:B:427:ARG:HH12	1:B:492:ILE:CG1	1.78	0.95
1:B:427:ARG:NH1	1:B:492:ILE:HG12	1.80	0.95
1:E:962:ASN:HD22	2:K:1006:GLN:HE22	0.96	0.95
2:G:792:LEU:HD23	2:G:1094:HIS:CE1	2.02	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:374:GLU:HA	2:K:377:HIS:HD2	1.28	0.95
2:K:792:LEU:HD23	2:K:1094:HIS:CE1	2.02	0.95
1:F:1610:ARG:HG2	1:F:1610:ARG:NH1	1.78	0.94
2:H:1985:GLN:HG3	2:H:1986:PRO:HD3	1.46	0.94
2:J:1844:LEU:HB3	2:J:1850:VAL:HG21	1.47	0.94
1:A:1148:LEU:HD13	1:E:1148:LEU:HD13	1.47	0.94
2:H:1948:MET:HE2	2:H:1948:MET:HA	1.47	0.94
2:J:1594:ARG:HG2	2:J:1594:ARG:NH1	1.77	0.94
2:G:1468:ARG:HH11	2:G:1468:ARG:CG	1.80	0.94
2:I:468:PRO:HG3	2:I:479:ARG:NH2	1.82	0.94
2:J:1948:MET:HE2	2:J:1948:MET:HA	1.49	0.94
2:J:1468:ARG:HH11	2:J:1468:ARG:CG	1.80	0.94
1:E:1079:ARG:HG2	1:E:1079:ARG:HH11	1.32	0.94
2:I:1948:MET:HA	2:I:1948:MET:HE2	1.47	0.94
1:C:427:ARG:HH11	1:C:427:ARG:CG	1.80	0.94
2:G:468:PRO:HG3	2:G:479:ARG:NH2	1.82	0.94
2:J:1338:ARG:HH21	2:L:327:PRO:CD	1.81	0.93
2:K:857:VAL:HG13	2:K:876:TRP:NE1	1.83	0.93
2:L:792:LEU:HD23	2:L:1094:HIS:CE1	2.03	0.93
1:A:570:TYR:O	1:A:574:ILE:HG13	1.67	0.93
2:K:685:VAL:HG23	2:K:1186:ARG:HH12	1.34	0.93
2:I:384:ASN:HB3	2:I:527:LEU:HD11	1.50	0.93
1:E:1610:ARG:HG2	1:E:1610:ARG:NH1	1.77	0.93
2:J:792:LEU:HD23	2:J:1094:HIS:CE1	2.03	0.93
2:J:1918:VAL:HG13	2:J:2006:HIS:HB2	1.50	0.93
2:L:1468:ARG:HH11	2:L:1468:ARG:CG	1.80	0.93
1:F:1702:ARG:HH11	1:F:1702:ARG:CG	1.80	0.93
2:I:1468:ARG:HH11	2:I:1468:ARG:CG	1.80	0.93
2:J:698:SER:HB3	2:J:701:VAL:HG23	1.50	0.93
1:C:1504:ARG:HG3	1:C:1504:ARG:NH1	1.78	0.93
1:C:1702:ARG:HH11	1:C:1702:ARG:CG	1.82	0.93
1:B:612:ILE:HG23	1:B:628:TYR:CD2	2.02	0.93
1:D:689:ARG:HD2	1:D:1339:GLU:CD	1.93	0.93
1:E:989:ASN:H	1:E:1491:ASN:HD21	1.14	0.93
2:H:1290:TYR:CG	2:H:1299:VAL:HG12	2.03	0.93
1:E:1703:VAL:HG11	1:E:1711:LEU:HB3	1.48	0.93
2:H:1468:ARG:HH11	2:H:1468:ARG:CG	1.82	0.93
2:K:1468:ARG:HH11	2:K:1468:ARG:CG	1.80	0.93
1:B:586:GLN:O	1:E:538:ARG:NH2	2.00	0.93
2:K:1948:MET:HE2	2:K:1948:MET:HA	1.48	0.93
1:E:1005:TRP:NE1	1:E:1561:LEU:HD22	1.84	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1948:MET:HA	2:L:1948:MET:HE2	1.50	0.93
1:C:1079:ARG:HG2	1:C:1079:ARG:HH11	1.31	0.92
1:F:1504:ARG:HG3	1:F:1504:ARG:NH1	1.81	0.92
1:B:1702:ARG:HH11	1:B:1702:ARG:CG	1.83	0.92
2:H:792:LEU:HD23	2:H:1094:HIS:CE1	2.04	0.92
2:H:2059:HIS:HE1	2:H:2068:ALA:HB2	1.34	0.92
2:L:468:PRO:HG3	2:L:479:ARG:NH2	1.83	0.92
1:C:989:ASN:H	1:C:1491:ASN:HD21	1.09	0.92
2:J:1767:GLU:CB	2:J:2016:PRO:HG3	1.99	0.92
1:B:1079:ARG:HG2	1:B:1079:ARG:HH11	1.33	0.92
1:E:1702:ARG:HH11	1:E:1702:ARG:CG	1.83	0.92
2:I:792:LEU:HD23	2:I:1094:HIS:CE1	2.04	0.92
1:A:689:ARG:HD2	1:A:1339:GLU:CD	1.94	0.92
1:B:1148:LEU:HD13	1:D:1148:LEU:HD13	1.49	0.92
1:B:1425:LEU:HD21	1:B:1429:ARG:HH21	1.35	0.92
1:B:1504:ARG:HG3	1:B:1504:ARG:NH1	1.79	0.92
1:C:1504:ARG:HH11	1:C:1504:ARG:CG	1.81	0.92
2:I:1969:LEU:HD23	2:I:1972:ILE:HD12	1.50	0.92
2:L:698:SER:HB3	2:L:701:VAL:HG23	1.51	0.92
2:L:1290:TYR:CG	2:L:1299:VAL:HG12	2.05	0.92
1:A:881:LEU:HA	1:A:884:MET:HG3	1.52	0.92
2:H:327:PRO:HD2	2:I:1338:ARG:NH2	1.83	0.92
1:C:1703:VAL:HG11	1:C:1711:LEU:HB3	1.51	0.91
1:E:967:PHE:CD2	1:E:1374:PRO:HG3	2.05	0.91
1:A:1610:ARG:HG2	1:A:1610:ARG:NH1	1.77	0.91
2:G:1594:ARG:HG2	2:G:1594:ARG:NH1	1.82	0.91
2:I:468:PRO:HG3	2:I:479:ARG:HH21	1.36	0.91
2:J:1290:TYR:CG	2:J:1299:VAL:HG12	2.05	0.91
1:A:1425:LEU:HD21	1:A:1429:ARG:HH21	1.36	0.91
2:H:48:LEU:HD12	2:H:101:VAL:HG11	1.51	0.91
1:F:1663:LYS:HG2	2:L:1007:LEU:HD11	1.53	0.91
1:D:1342:ARG:HH11	1:D:1347:THR:HB	1.35	0.91
1:D:1425:LEU:HD21	1:D:1429:ARG:HH21	1.33	0.91
2:G:1290:TYR:CG	2:G:1299:VAL:HG12	2.05	0.91
1:F:1342:ARG:HH11	1:F:1347:THR:HB	1.32	0.91
1:A:1702:ARG:HH11	1:A:1702:ARG:CG	1.84	0.91
2:K:698:SER:HB3	2:K:701:VAL:HG23	1.53	0.91
2:I:1637:VAL:HG11	2:I:1679:LEU:HD13	1.52	0.90
2:J:374:GLU:HA	2:J:377:HIS:HD2	1.26	0.90
1:B:1504:ARG:HH11	1:B:1504:ARG:CG	1.85	0.90
1:C:1363:MET:HE1	1:C:1373:VAL:HG21	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1305:LEU:HD11	2:I:1365:LYS:HD2	1.54	0.90
2:J:48:LEU:HD12	2:J:101:VAL:HG11	1.51	0.90
1:D:570:TYR:O	1:D:574:ILE:HG13	1.71	0.90
2:L:1721:ARG:NH2	2:L:1853:ILE:HD12	1.87	0.90
1:E:1213:VAL:HG22	1:E:1300:ARG:HH21	1.33	0.90
2:I:1721:ARG:NH2	2:I:1853:ILE:HD12	1.86	0.90
2:G:942:MET:HE2	2:G:955:LEU:HB3	1.54	0.90
1:A:1504:ARG:HG3	1:A:1504:ARG:NH1	1.84	0.90
1:E:1363:MET:HE1	1:E:1373:VAL:HG21	1.54	0.90
1:F:1504:ARG:HH11	1:F:1504:ARG:CG	1.84	0.90
2:G:1266:HIS:HE1	2:G:1275:ARG:HD2	1.34	0.90
2:K:685:VAL:HG23	2:K:1186:ARG:NH1	1.86	0.90
1:C:88:ILE:HG21	2:I:1821:MET:HE2	1.52	0.90
1:A:1499:ARG:HD3	1:E:1476:ARG:HH12	1.36	0.89
2:K:582:LYS:HB2	2:K:1112:VAL:HG22	1.52	0.89
1:D:1504:ARG:HH11	1:D:1504:ARG:CG	1.84	0.89
2:G:1969:LEU:HD23	2:G:1972:ILE:HD12	1.53	0.89
2:K:468:PRO:HG3	2:K:479:ARG:HH21	1.36	0.89
2:K:1290:TYR:CG	2:K:1299:VAL:HG12	2.07	0.89
2:K:1769:VAL:HG22	2:K:1775:ILE:HA	1.52	0.89
1:A:574:ILE:CG2	1:A:579:MET:HB2	2.03	0.89
2:G:2052:LYS:HB3	2:G:2074:TRP:CE2	2.08	0.89
1:D:88:ILE:HG21	2:J:1821:MET:HE2	1.54	0.89
2:H:1090:ILE:O	2:H:1094:HIS:HD2	1.54	0.89
2:H:2059:HIS:CE1	2:H:2068:ALA:HB2	2.08	0.89
2:I:1090:ILE:O	2:I:1094:HIS:HD2	1.56	0.89
2:I:1290:TYR:CG	2:I:1299:VAL:HG12	2.06	0.89
1:A:612:ILE:HD12	1:F:579:MET:HE2	1.55	0.89
2:G:350:MET:HE2	2:G:435:ILE:HD12	1.55	0.89
1:C:1610:ARG:HG2	1:C:1610:ARG:NH1	1.84	0.89
2:J:2059:HIS:HE1	2:J:2068:ALA:HB2	1.37	0.89
1:D:824:LEU:HB3	1:D:839:ILE:HD13	1.54	0.89
2:G:468:PRO:HG3	2:G:479:ARG:HH21	1.37	0.89
2:H:846:THR:HG21	2:H:866:HIS:CD2	2.08	0.89
2:J:1090:ILE:O	2:J:1094:HIS:HD2	1.56	0.89
1:C:40:ARG:HH21	1:C:74:VAL:HG22	1.38	0.89
1:C:824:LEU:HB3	1:C:839:ILE:HD13	1.51	0.89
2:H:1721:ARG:NH2	2:H:1853:ILE:HD12	1.88	0.89
2:J:762:LEU:HD22	2:J:802:TYR:HD2	1.38	0.89
2:J:1637:VAL:HG11	2:J:1679:LEU:HD13	1.55	0.89
1:C:961:ALA:HB2	1:C:1022:LEU:HD12	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1504:ARG:HG3	1:D:1504:ARG:NH1	1.83	0.88
1:D:1213:VAL:HG22	1:D:1300:ARG:HH21	1.37	0.88
1:F:1005:TRP:NE1	1:F:1561:LEU:HD22	1.87	0.88
2:K:846:THR:HG21	2:K:866:HIS:CD2	2.08	0.88
1:D:1610:ARG:HG2	1:D:1610:ARG:NH1	1.82	0.88
1:F:1079:ARG:HG2	1:F:1079:ARG:HH11	1.35	0.88
2:G:698:SER:HB3	2:G:701:VAL:HG23	1.53	0.88
2:G:1802:ALA:HB1	2:G:1804:GLN:HE22	1.38	0.88
2:H:374:GLU:HA	2:H:377:HIS:HD2	1.24	0.88
1:C:1148:LEU:HD13	1:F:1148:LEU:HD13	1.55	0.88
1:E:1504:ARG:HH11	1:E:1504:ARG:CG	1.85	0.88
2:I:1156:ASP:HB2	2:I:1159:SER:H	1.37	0.88
2:L:468:PRO:HG3	2:L:479:ARG:HH21	1.38	0.88
2:L:582:LYS:HB2	2:L:1112:VAL:HG22	1.55	0.88
2:G:1896:THR:HG22	2:G:1898:GLN:H	1.39	0.88
2:L:1123:ALA:CB	2:L:1126:GLU:HG3	2.02	0.88
1:A:533:SER:HB2	1:A:612:ILE:HB	1.56	0.88
2:H:468:PRO:HG3	2:H:479:ARG:NH2	1.89	0.88
1:A:1005:TRP:NE1	1:A:1561:LEU:HD22	1.88	0.88
2:G:48:LEU:HD12	2:G:101:VAL:HG11	1.54	0.88
2:G:1767:GLU:HB2	2:G:2016:PRO:HG3	1.56	0.88
2:I:1802:ALA:HB1	2:I:1804:GLN:HE22	1.37	0.88
2:J:582:LYS:HB2	2:J:1112:VAL:HG22	1.55	0.88
2:G:582:LYS:HB2	2:G:1112:VAL:HG22	1.53	0.88
2:G:1436:ARG:NH2	2:G:1602:LEU:HD21	1.89	0.88
2:H:43:PHE:HB2	2:I:22:ARG:CZ	2.03	0.88
2:I:2052:LYS:HB3	2:I:2074:TRP:CE2	2.08	0.88
1:B:1610:ARG:HG2	1:B:1610:ARG:NH1	1.78	0.88
2:I:1769:VAL:HG22	2:I:1775:ILE:HA	1.56	0.88
2:J:1969:LEU:HD23	2:J:1972:ILE:HD12	1.56	0.88
2:L:2059:HIS:HE1	2:L:2068:ALA:HB2	1.39	0.88
2:G:1918:VAL:HG13	2:G:2006:HIS:HB2	1.52	0.87
2:K:1969:LEU:HD23	2:K:1972:ILE:HD12	1.54	0.87
1:B:427:ARG:NH1	1:B:492:ILE:CG1	2.36	0.87
1:E:1425:LEU:HD21	1:E:1429:ARG:HH21	1.37	0.87
1:F:1213:VAL:HG22	1:F:1300:ARG:HH21	1.37	0.87
2:G:1266:HIS:CE1	2:G:1275:ARG:HD2	2.08	0.87
2:I:1266:HIS:HE1	2:I:1275:ARG:HD2	1.39	0.87
2:L:1770:ASN:HB2	2:L:1776:LYS:HE2	1.55	0.87
1:C:1005:TRP:NE1	1:C:1561:LEU:HD22	1.88	0.87
2:I:698:SER:HB3	2:I:701:VAL:HG23	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:342:ILE:HD11	1:F:342:ILE:HD11	1.56	0.87
1:C:1273:ILE:HD11	1:F:1630:LYS:HD2	1.57	0.87
2:H:1594:ARG:HG2	2:H:1594:ARG:NH1	1.81	0.87
2:J:468:PRO:HG3	2:J:479:ARG:NH2	1.88	0.87
2:K:190:TYR:HD1	2:K:201:ILE:HD13	1.39	0.87
2:L:1090:ILE:O	2:L:1094:HIS:HD2	1.55	0.87
2:L:1594:ARG:HG2	2:L:1594:ARG:NH1	1.82	0.87
1:E:1504:ARG:HG3	1:E:1504:ARG:NH1	1.83	0.87
2:I:422:THR:HG23	2:I:844:GLU:OE2	1.75	0.87
2:L:1637:VAL:HG11	2:L:1679:LEU:HD13	1.55	0.87
2:K:57:PRO:HG3	2:K:68:GLU:HG3	1.56	0.87
2:K:1594:ARG:HG2	2:K:1594:ARG:NH1	1.83	0.87
2:L:942:MET:HE2	2:L:955:LEU:HB3	1.57	0.87
1:A:824:LEU:HB3	1:A:839:ILE:HD13	1.55	0.87
1:C:1425:LEU:HD21	1:C:1429:ARG:HH21	1.38	0.87
1:D:427:ARG:HH12	1:D:492:ILE:HG12	1.38	0.87
2:I:48:LEU:HD12	2:I:101:VAL:HG11	1.57	0.87
2:J:1721:ARG:NH2	2:J:1853:ILE:HD12	1.89	0.87
2:K:2052:LYS:HB3	2:K:2074:TRP:CE2	2.10	0.87
1:B:1213:VAL:HG22	1:B:1300:ARG:HH21	1.40	0.87
2:H:1969:LEU:HD23	2:H:1972:ILE:HD12	1.57	0.87
2:I:416:GLN:HE22	2:I:425:LYS:H	1.23	0.87
1:B:1630:LYS:HD2	1:D:1273:ILE:HD11	1.57	0.86
1:E:962:ASN:HD22	2:K:1006:GLN:NE2	1.71	0.86
2:G:1770:ASN:HB2	2:G:1776:LYS:HE2	1.57	0.86
2:G:2052:LYS:HD3	2:G:2074:TRP:NE1	1.90	0.86
1:C:1342:ARG:HH11	1:C:1347:THR:HB	1.35	0.86
2:L:1969:LEU:HD23	2:L:1972:ILE:HD12	1.55	0.86
1:F:881:LEU:HA	1:F:884:MET:HG3	1.57	0.86
2:H:1156:ASP:HB2	2:H:1159:SER:H	1.40	0.86
2:L:2052:LYS:HB3	2:L:2074:TRP:CE2	2.10	0.86
2:H:2052:LYS:HB3	2:H:2074:TRP:CE2	2.09	0.86
2:J:1266:HIS:HE1	2:J:1275:ARG:HD2	1.38	0.86
2:K:48:LEU:HD12	2:K:101:VAL:HG11	1.58	0.86
2:K:327:PRO:HD2	2:L:1338:ARG:HH21	1.41	0.86
2:K:2059:HIS:CE1	2:K:2068:ALA:HB2	2.09	0.86
1:A:1363:MET:HE1	1:A:1373:VAL:HG21	1.55	0.86
1:E:824:LEU:HB3	1:E:839:ILE:HD13	1.57	0.86
2:I:779:GLY:O	2:I:780:SER:HB3	1.74	0.86
2:K:2059:HIS:HE1	2:K:2068:ALA:HB2	1.37	0.86
1:E:557:ARG:HH11	1:E:557:ARG:CG	1.88	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1266:HIS:HE1	2:H:1275:ARG:HD2	1.38	0.86
2:H:2052:LYS:HD3	2:H:2074:TRP:NE1	1.90	0.86
2:L:1802:ALA:HB1	2:L:1804:GLN:HE22	1.39	0.86
1:B:535:TYR:OH	1:B:630:LYS:HE3	1.75	0.86
1:D:557:ARG:HH11	1:D:557:ARG:CG	1.89	0.86
1:E:532:ILE:CG2	1:E:907:PHE:HB2	2.05	0.86
2:H:582:LYS:HB2	2:H:1112:VAL:HG22	1.58	0.86
2:J:1156:ASP:HB2	2:J:1159:SER:H	1.37	0.86
2:K:1658:MET:HE2	2:K:1826:LEU:HD23	1.56	0.86
2:L:1156:ASP:HB2	2:L:1159:SER:H	1.39	0.86
2:L:2059:HIS:CE1	2:L:2068:ALA:HB2	2.11	0.86
1:B:824:LEU:HB3	1:B:839:ILE:HD13	1.57	0.86
1:D:1005:TRP:NE1	1:D:1561:LEU:HD22	1.89	0.86
2:H:1266:HIS:CE1	2:H:1275:ARG:HD2	2.09	0.86
2:K:1721:ARG:NH2	2:K:1853:ILE:HD12	1.91	0.86
2:L:1266:HIS:HE1	2:L:1275:ARG:HD2	1.39	0.86
1:F:88:ILE:HG21	2:L:1821:MET:HE2	1.58	0.86
2:H:1802:ALA:HB1	2:H:1804:GLN:HE22	1.41	0.86
2:J:2059:HIS:CE1	2:J:2068:ALA:HB2	2.11	0.86
2:L:1769:VAL:HG22	2:L:1775:ILE:HA	1.56	0.86
1:A:1504:ARG:HH11	1:A:1504:ARG:CG	1.85	0.85
2:H:1769:VAL:HG22	2:H:1775:ILE:HA	1.56	0.85
2:K:1457:HIS:ND1	2:K:1487:THR:HG22	1.91	0.85
2:G:1156:ASP:HB2	2:G:1159:SER:H	1.41	0.85
2:H:942:MET:HE2	2:H:955:LEU:HB3	1.59	0.85
1:A:1389:ILE:CG1	1:E:1268:SER:HB3	2.03	0.85
1:F:616:HIS:HA	1:F:633:THR:HG23	1.59	0.85
2:K:1266:HIS:HE1	2:K:1275:ARG:HD2	1.39	0.85
1:D:689:ARG:CZ	1:D:1339:GLU:HG2	2.07	0.85
1:E:689:ARG:NE	1:E:1339:GLU:HG2	1.90	0.85
1:F:1425:LEU:HD21	1:F:1429:ARG:HH21	1.37	0.85
2:G:2059:HIS:CE1	2:G:2068:ALA:HB2	2.11	0.85
2:J:327:PRO:O	2:K:1338:ARG:NH2	2.09	0.85
2:K:942:MET:HE2	2:K:955:LEU:HB3	1.55	0.85
2:K:1156:ASP:HB2	2:K:1159:SER:H	1.39	0.85
2:G:1637:VAL:HG11	2:G:1679:LEU:HD13	1.57	0.85
2:I:846:THR:HG21	2:I:866:HIS:CD2	2.10	0.85
2:J:1770:ASN:HB2	2:J:1776:LYS:HE2	1.58	0.85
1:A:40:ARG:HH21	1:A:74:VAL:HG22	1.40	0.85
1:F:824:LEU:HB3	1:F:839:ILE:HD13	1.56	0.85
2:G:1721:ARG:NH2	2:G:1853:ILE:HD12	1.90	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1460:THR:HG22	2:I:1462:GLN:H	1.42	0.85
2:I:1918:VAL:HG13	2:I:2006:HIS:HB2	1.58	0.85
2:J:1802:ALA:HB1	2:J:1804:GLN:HE22	1.41	0.85
1:A:557:ARG:HH11	1:A:557:ARG:CG	1.90	0.85
2:G:1090:ILE:O	2:G:1094:HIS:HD2	1.58	0.85
2:K:1616:VAL:HG11	2:K:1679:LEU:HD12	1.58	0.85
2:I:582:LYS:HB2	2:I:1112:VAL:HG22	1.58	0.85
2:K:465:LEU:O	2:K:479:ARG:HD3	1.77	0.85
2:K:1896:THR:HG22	2:K:1898:GLN:H	1.41	0.85
2:L:48:LEU:HD12	2:L:101:VAL:HG11	1.58	0.85
2:H:468:PRO:HG3	2:H:479:ARG:HH21	1.42	0.85
2:K:1802:ALA:HB1	2:K:1804:GLN:HE22	1.41	0.85
2:L:846:THR:HG21	2:L:866:HIS:CD2	2.12	0.85
1:C:755:GLU:HG2	1:D:831:GLU:HG2	1.59	0.85
1:D:679:LYS:HG2	1:D:708:GLN:HB3	1.59	0.85
2:H:24:LEU:HD12	2:H:37:VAL:HG21	1.58	0.85
2:I:1770:ASN:HB2	2:I:1776:LYS:HE2	1.58	0.85
2:L:779:GLY:O	2:L:780:SER:HB3	1.77	0.84
1:B:1273:ILE:HD11	1:D:1630:LYS:HD2	1.59	0.84
1:E:965:TYR:CZ	1:E:1199:LEU:HD22	2.12	0.84
2:K:781:GLY:HA2	2:K:1071:VAL:HG13	1.57	0.84
1:E:612:ILE:HG12	1:E:628:TYR:CE2	2.13	0.84
2:I:2052:LYS:HD3	2:I:2074:TRP:NE1	1.91	0.84
2:I:2059:HIS:HE1	2:I:2068:ALA:HB2	1.41	0.84
2:J:781:GLY:HA2	2:J:1071:VAL:HG13	1.58	0.84
2:J:1769:VAL:HG22	2:J:1775:ILE:HA	1.58	0.84
2:L:1985:GLN:CG	2:L:1986:PRO:HD3	2.07	0.84
1:B:689:ARG:HD2	1:B:1339:GLU:CD	2.02	0.84
1:C:881:LEU:HA	1:C:884:MET:HG3	1.59	0.84
1:E:1342:ARG:HH11	1:E:1347:THR:HB	1.42	0.84
2:G:2059:HIS:HE1	2:G:2068:ALA:HB2	1.41	0.84
2:K:468:PRO:CG	2:K:479:ARG:HH21	1.90	0.84
2:H:698:SER:HB3	2:H:701:VAL:HG23	1.59	0.84
2:H:762:LEU:HD22	2:H:802:TYR:HD2	1.40	0.84
2:L:2052:LYS:HD3	2:L:2074:TRP:NE1	1.93	0.84
1:E:427:ARG:HG3	1:E:427:ARG:NH1	1.90	0.84
2:G:416:GLN:HE22	2:G:425:LYS:H	1.25	0.84
2:G:781:GLY:HA2	2:G:1071:VAL:HG13	1.59	0.84
2:G:1769:VAL:HG22	2:G:1775:ILE:HA	1.59	0.84
2:J:1594:ARG:HH11	2:J:1594:ARG:CG	1.89	0.84
2:K:743:TRP:CD2	2:K:761:ILE:HD11	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:762:LEU:HD22	2:L:802:TYR:HD2	1.39	0.84
2:H:1637:VAL:HG11	2:H:1679:LEU:HD13	1.59	0.84
2:L:485:ASP:HB3	2:L:488:PRO:HD2	1.59	0.84
1:A:427:ARG:HG3	1:A:427:ARG:NH1	1.91	0.84
2:J:1266:HIS:CE1	2:J:1275:ARG:HD2	2.12	0.84
1:C:1476:ARG:HH12	1:F:1499:ARG:HD3	1.41	0.84
1:D:1363:MET:HE1	1:D:1373:VAL:HG21	1.58	0.84
2:H:1610:MET:HE2	2:H:1610:MET:HA	1.60	0.84
1:C:679:LYS:HG2	1:C:708:GLN:HB3	1.60	0.84
2:G:327:PRO:HD2	2:H:1338:ARG:NH2	1.91	0.84
2:H:750:GLY:HA2	2:H:865:ILE:HG23	1.60	0.84
2:K:24:LEU:HD12	2:K:37:VAL:HG21	1.59	0.84
2:K:762:LEU:HD22	2:K:802:TYR:HD2	1.43	0.84
2:H:1770:ASN:HB2	2:H:1776:LYS:HE2	1.58	0.83
1:B:40:ARG:HH21	1:B:74:VAL:HG22	1.42	0.83
2:G:24:LEU:HD12	2:G:37:VAL:HG21	1.60	0.83
2:K:1090:ILE:O	2:K:1094:HIS:HD2	1.61	0.83
1:A:1342:ARG:HH11	1:A:1347:THR:HB	1.37	0.83
1:D:40:ARG:HH21	1:D:74:VAL:HG22	1.41	0.83
1:E:40:ARG:HH21	1:E:74:VAL:HG22	1.42	0.83
1:E:1623:THR:HG22	1:E:1633:GLN:HG3	1.59	0.83
2:G:846:THR:HG21	2:G:866:HIS:CD2	2.13	0.83
1:E:558:LEU:HB2	1:E:563:GLN:HG3	1.60	0.83
2:J:416:GLN:HE22	2:J:425:LYS:H	1.24	0.83
2:J:468:PRO:HG3	2:J:479:ARG:HH21	1.41	0.83
2:J:779:GLY:O	2:J:780:SER:HB3	1.77	0.83
2:K:914:TRP:NE1	2:K:916:GLY:HA3	1.93	0.83
2:L:350:MET:HE2	2:L:435:ILE:HD12	1.60	0.83
1:A:962:ASN:HD22	2:G:1006:GLN:HE22	1.26	0.83
1:A:1213:VAL:HG22	1:A:1300:ARG:HH21	1.43	0.83
1:F:422:LEU:HD13	1:F:429:ILE:HG12	1.61	0.83
2:G:57:PRO:HG3	2:G:68:GLU:HG3	1.59	0.83
2:I:762:LEU:HD22	2:I:802:TYR:HD2	1.42	0.83
1:F:1363:MET:HE1	1:F:1373:VAL:HG21	1.59	0.83
2:J:1896:THR:HG22	2:J:1898:GLN:H	1.43	0.83
1:A:1214:HIS:HD2	1:A:1216:SER:OG	1.61	0.83
1:B:679:LYS:HG2	1:B:708:GLN:HB3	1.61	0.83
1:D:605:ARG:HB3	1:D:606:PRO:CD	2.08	0.83
1:C:567:ASN:HA	1:C:570:TYR:HB3	1.61	0.83
2:J:57:PRO:HG3	2:J:68:GLU:HG3	1.59	0.83
1:B:1241:LEU:HD23	1:B:1243:LYS:HE3	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:416:GLN:HE22	2:L:425:LYS:H	1.27	0.83
1:B:88:ILE:HG21	2:H:1821:MET:HE2	1.60	0.82
1:B:1342:ARG:HH11	1:B:1347:THR:HB	1.40	0.82
1:C:427:ARG:HG3	1:C:427:ARG:NH1	1.91	0.82
2:I:1896:THR:HG22	2:I:1898:GLN:H	1.44	0.82
1:D:427:ARG:HG3	1:D:427:ARG:NH1	1.90	0.82
1:E:1099:GLU:HG2	1:E:1149:LEU:HD21	1.61	0.82
2:L:590:VAL:HG23	2:L:1091:HIS:NE2	1.94	0.82
2:I:1457:HIS:ND1	2:I:1487:THR:HG22	1.95	0.82
2:J:846:THR:HG21	2:J:866:HIS:CD2	2.14	0.82
2:H:485:ASP:HB3	2:H:488:PRO:HD2	1.61	0.82
2:L:24:LEU:HD12	2:L:37:VAL:HG21	1.60	0.82
2:L:57:PRO:HG3	2:L:68:GLU:HG3	1.61	0.82
1:B:1094:LYS:HE3	1:B:1316:TYR:CD1	2.14	0.82
1:C:683:THR:HB	1:C:714:PHE:HB3	1.61	0.82
2:G:762:LEU:HD22	2:G:802:TYR:HD2	1.43	0.82
2:H:1460:THR:HG22	2:H:1462:GLN:H	1.44	0.82
2:I:1266:HIS:CE1	2:I:1275:ARG:HD2	2.14	0.82
2:K:857:VAL:CG1	2:K:876:TRP:NE1	2.42	0.82
2:K:2052:LYS:HD3	2:K:2074:TRP:NE1	1.93	0.82
2:L:1610:MET:HE2	2:L:1610:MET:HA	1.59	0.82
1:B:434:ILE:HD11	1:B:490:VAL:HG21	1.61	0.82
1:D:689:ARG:NE	1:D:1339:GLU:HG2	1.94	0.82
2:G:1457:HIS:ND1	2:G:1487:THR:HG22	1.93	0.82
2:J:1610:MET:HE2	2:J:1610:MET:HA	1.59	0.82
2:L:485:ASP:CB	2:L:488:PRO:HD2	2.10	0.82
2:L:521:VAL:HG11	2:L:549:ASN:HB2	1.62	0.82
2:L:781:GLY:HA2	2:L:1071:VAL:HG13	1.62	0.82
1:A:1241:LEU:HD23	1:A:1243:LYS:HE3	1.60	0.82
1:B:565:GLN:O	1:B:569:LEU:HD12	1.79	0.82
2:G:750:GLY:HA2	2:G:865:ILE:HG23	1.62	0.82
2:K:779:GLY:O	2:K:780:SER:HB3	1.79	0.82
1:B:567:ASN:HA	1:B:570:TYR:HB3	1.59	0.82
1:D:881:LEU:HA	1:D:884:MET:HG3	1.59	0.82
1:F:427:ARG:HG3	1:F:427:ARG:NH1	1.87	0.82
2:J:1404:VAL:HG22	2:J:1413:VAL:HG22	1.60	0.82
2:L:1266:HIS:CE1	2:L:1275:ARG:HD2	2.14	0.82
2:H:779:GLY:O	2:H:780:SER:HB3	1.78	0.82
2:H:1457:HIS:ND1	2:H:1487:THR:HG22	1.95	0.82
2:J:396:ILE:H	2:J:396:ILE:HD12	1.43	0.82
2:J:1457:HIS:ND1	2:J:1487:THR:HG22	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1094:LYS:HE3	1:F:1316:TYR:CD1	2.14	0.82
1:D:558:LEU:HB2	1:D:563:GLN:HG3	1.61	0.81
1:D:855:ALA:HA	1:D:919:ARG:HH21	1.45	0.81
2:I:1610:MET:HE2	2:I:1610:MET:HA	1.60	0.81
2:K:1266:HIS:CE1	2:K:1275:ARG:HD2	2.14	0.81
2:L:465:LEU:O	2:L:479:ARG:HD3	1.79	0.81
2:L:743:TRP:CD2	2:L:761:ILE:HD11	2.15	0.81
2:G:396:ILE:H	2:G:396:ILE:HD12	1.45	0.81
2:G:471:ASP:HB3	2:G:474:THR:O	1.80	0.81
2:G:1610:MET:HE2	2:G:1610:MET:HA	1.62	0.81
2:H:781:GLY:HA2	2:H:1071:VAL:HG13	1.61	0.81
2:I:57:PRO:HG3	2:I:68:GLU:HG3	1.60	0.81
2:L:914:TRP:NE1	2:L:916:GLY:HA3	1.94	0.81
1:A:552:ILE:HD11	1:F:552:ILE:HG12	1.59	0.81
1:A:689:ARG:NE	1:A:1339:GLU:HG2	1.95	0.81
1:E:427:ARG:HH12	1:E:492:ILE:HG12	1.44	0.81
1:E:1108:PRO:HG3	1:E:1141:ARG:HE	1.46	0.81
2:J:24:LEU:HD12	2:J:37:VAL:HG21	1.61	0.81
2:J:350:MET:HE2	2:J:435:ILE:HD12	1.59	0.81
2:L:750:GLY:HA2	2:L:865:ILE:HG23	1.61	0.81
1:D:1099:GLU:HG2	1:D:1149:LEU:HD21	1.63	0.81
1:D:1241:LEU:HD23	1:D:1243:LYS:HE3	1.61	0.81
2:G:468:PRO:CG	2:G:479:ARG:HH21	1.92	0.81
2:J:590:VAL:HG23	2:J:1091:HIS:NE2	1.95	0.81
2:J:2052:LYS:HB3	2:J:2074:TRP:CE2	2.14	0.81
1:C:729:ILE:HA	1:C:736:LEU:HD21	1.63	0.81
2:G:914:TRP:NE1	2:G:916:GLY:HA3	1.95	0.81
2:I:350:MET:HE2	2:I:435:ILE:HD12	1.62	0.81
2:L:857:VAL:HG13	2:L:876:TRP:NE1	1.96	0.81
2:L:1436:ARG:NH2	2:L:1602:LEU:HD21	1.96	0.81
2:H:416:GLN:HE22	2:H:425:LYS:H	1.26	0.81
1:B:881:LEU:HA	1:B:884:MET:HG3	1.60	0.81
1:F:679:LYS:HG2	1:F:708:GLN:HB3	1.61	0.81
1:F:1674:ILE:HD11	2:L:1011:GLN:HG3	1.60	0.81
2:I:468:PRO:CG	2:I:479:ARG:HH21	1.94	0.81
2:K:521:VAL:HG11	2:K:549:ASN:HB2	1.62	0.81
2:K:846:THR:HG21	2:K:866:HIS:HD2	1.45	0.81
1:B:1476:ARG:HH12	1:D:1499:ARG:HD3	1.46	0.81
1:F:1241:LEU:HD23	1:F:1243:LYS:HE3	1.63	0.81
2:H:743:TRP:CD2	2:H:761:ILE:HD11	2.15	0.81
2:I:674:ILE:HD13	2:I:705:TYR:CE2	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1479:HIS:HD2	2:J:1481:ILE:HG12	1.44	0.81
1:C:729:ILE:HA	1:C:736:LEU:CD2	2.11	0.81
2:I:24:LEU:HD12	2:I:37:VAL:HG21	1.63	0.81
2:J:914:TRP:CD1	2:J:916:GLY:HA3	2.16	0.81
1:A:1099:GLU:HG2	1:A:1149:LEU:HD21	1.62	0.80
1:B:1099:GLU:HG2	1:B:1149:LEU:HD21	1.62	0.80
2:G:2005:PHE:CA	2:G:2010:LEU:HD11	2.10	0.80
2:H:350:MET:HE2	2:H:435:ILE:HD12	1.63	0.80
2:I:485:ASP:HB3	2:I:488:PRO:HD2	1.61	0.80
2:I:942:MET:HE2	2:I:955:LEU:HB3	1.60	0.80
2:J:521:VAL:HG11	2:J:549:ASN:HB2	1.63	0.80
1:A:558:LEU:HB2	1:A:563:GLN:HG3	1.63	0.80
1:B:422:LEU:HD13	1:B:429:ILE:HG12	1.64	0.80
1:C:1213:VAL:HG22	1:C:1300:ARG:HH21	1.46	0.80
1:C:1241:LEU:HD23	1:C:1243:LYS:HE3	1.63	0.80
1:F:1610:ARG:HH11	1:F:1610:ARG:CG	1.91	0.80
1:F:1623:THR:HG22	1:F:1633:GLN:HG3	1.60	0.80
2:H:485:ASP:CB	2:H:488:PRO:HD2	2.11	0.80
2:I:396:ILE:H	2:I:396:ILE:HD12	1.45	0.80
2:I:2059:HIS:CE1	2:I:2068:ALA:HB2	2.14	0.80
2:K:1479:HIS:HD2	2:K:1481:ILE:HG12	1.45	0.80
2:L:468:PRO:CG	2:L:479:ARG:HH21	1.94	0.80
1:B:1674:ILE:HD11	2:H:1011:GLN:HG3	1.61	0.80
1:E:88:ILE:HG21	2:K:1821:MET:HE2	1.61	0.80
2:H:1896:THR:HG22	2:H:1898:GLN:H	1.46	0.80
2:K:1770:ASN:HB2	2:K:1776:LYS:HE2	1.61	0.80
2:I:1985:GLN:CG	2:I:1986:PRO:HD3	2.09	0.80
2:J:465:LEU:O	2:J:479:ARG:HD3	1.82	0.80
2:K:251:PRO:HG3	2:K:316:PHE:HA	1.63	0.80
1:C:890:ASN:OD1	2:J:1755:LYS:HE2	1.82	0.80
2:J:674:ILE:HD13	2:J:705:TYR:CE2	2.16	0.80
2:K:1369:ASP:OD1	2:K:1371:LEU:HB3	1.81	0.80
2:K:1404:VAL:HG22	2:K:1413:VAL:HG22	1.62	0.80
1:A:1476:ARG:NH1	1:E:1499:ARG:HD3	1.95	0.80
2:L:1460:THR:HG22	2:L:1462:GLN:H	1.46	0.80
2:L:1896:THR:HG22	2:L:1898:GLN:H	1.46	0.80
1:B:326:ASP:HB3	1:B:333:ARG:HH12	1.47	0.80
1:E:679:LYS:HG2	1:E:708:GLN:HB3	1.64	0.80
2:I:1179:GLU:H	2:I:1179:GLU:CD	1.89	0.80
2:K:1460:THR:HG22	2:K:1462:GLN:H	1.45	0.80
1:A:729:ILE:HA	1:A:736:LEU:CD2	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:422:LEU:HD13	1:D:429:ILE:HG12	1.64	0.80
2:J:2052:LYS:HD3	2:J:2074:TRP:NE1	1.96	0.80
2:K:1183:GLN:HB2	2:K:1278:MET:HE3	1.61	0.80
2:L:1554:PRO:HG3	2:L:1659:ILE:HD11	1.64	0.80
1:C:407:ARG:NH1	1:C:1606:VAL:HG23	1.96	0.80
1:E:689:ARG:CZ	1:E:1339:GLU:HG2	2.12	0.80
2:G:779:GLY:O	2:G:780:SER:HB3	1.78	0.80
2:H:521:VAL:HG11	2:H:549:ASN:HB2	1.64	0.80
2:I:485:ASP:CB	2:I:488:PRO:HD2	2.12	0.80
2:J:914:TRP:NE1	2:J:916:GLY:HA3	1.95	0.80
2:K:1610:MET:HE2	2:K:1610:MET:HA	1.64	0.80
2:K:1985:GLN:CG	2:K:1986:PRO:HD3	2.12	0.80
1:A:326:ASP:HB3	1:A:333:ARG:HH12	1.46	0.80
1:B:1623:THR:HG22	1:B:1633:GLN:HG3	1.62	0.80
1:F:567:ASN:HA	1:F:570:TYR:HB3	1.62	0.80
2:I:1436:ARG:NH2	2:I:1602:LEU:HD21	1.97	0.80
1:B:552:ILE:HG12	1:E:552:ILE:HD11	1.63	0.79
1:B:1363:MET:HE1	1:B:1373:VAL:HG21	1.61	0.79
1:C:326:ASP:HB3	1:C:333:ARG:HH12	1.47	0.79
1:F:824:LEU:HB3	1:F:839:ILE:CD1	2.12	0.79
2:H:590:VAL:HG23	2:H:1091:HIS:NE2	1.98	0.79
1:B:551:LEU:HD11	1:E:565:GLN:HG3	1.62	0.79
1:B:616:HIS:HA	1:B:633:THR:HG23	1.64	0.79
1:C:868:VAL:HG11	1:C:908:ILE:HD11	1.63	0.79
1:F:689:ARG:HD2	1:F:1339:GLU:CD	2.06	0.79
2:H:1404:VAL:HG22	2:H:1413:VAL:HG22	1.64	0.79
2:I:1554:PRO:HG3	2:I:1659:ILE:HD11	1.62	0.79
1:D:81:TYR:CE1	2:J:1821:MET:HE3	2.17	0.79
1:E:1663:LYS:HG2	2:K:1007:LEU:HD11	1.64	0.79
2:G:1183:GLN:HB2	2:G:1278:MET:HE3	1.62	0.79
2:G:1554:PRO:HG3	2:G:1659:ILE:HD11	1.61	0.79
2:H:605:VAL:HB	2:H:628:ILE:HG13	1.64	0.79
1:B:372:LEU:HD11	1:E:371:GLN:HG2	1.64	0.79
1:D:683:THR:HB	1:D:714:PHE:HB3	1.62	0.79
2:K:416:GLN:HE22	2:K:425:LYS:H	1.27	0.79
2:K:501:TRP:HE1	2:K:528:THR:CG2	1.94	0.79
2:K:1067:LEU:HD13	3:K:2101:FMN:HM72	1.62	0.79
2:G:487:ILE:HB	2:G:488:PRO:HD3	1.65	0.79
2:G:1183:GLN:CB	2:G:1278:MET:HE3	2.13	0.79
2:H:43:PHE:CG	2:I:22:ARG:NE	2.49	0.79
2:I:511:THR:HG22	2:I:512:HIS:HD2	1.44	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:942:MET:HE2	2:J:955:LEU:HB3	1.65	0.79
2:J:2005:PHE:CA	2:J:2010:LEU:HD11	2.12	0.79
1:A:88:ILE:HG21	2:G:1821:MET:HE2	1.62	0.79
1:B:855:ALA:HA	1:B:919:ARG:HH21	1.47	0.79
1:C:824:LEU:HB3	1:C:839:ILE:CD1	2.13	0.79
2:J:1346:MET:HE3	2:J:1617:ARG:NH2	1.98	0.79
2:K:485:ASP:HB3	2:K:488:PRO:HD2	1.63	0.79
2:K:750:GLY:HA2	2:K:865:ILE:HG23	1.64	0.79
1:A:574:ILE:HG23	1:A:579:MET:HB2	1.63	0.79
1:A:679:LYS:HG2	1:A:708:GLN:HB3	1.63	0.79
1:E:855:ALA:HA	1:E:919:ARG:HH21	1.47	0.79
2:G:521:VAL:HG11	2:G:549:ASN:HB2	1.63	0.79
2:G:1404:VAL:HG22	2:G:1413:VAL:HG22	1.65	0.79
2:J:251:PRO:HG3	2:J:316:PHE:HA	1.64	0.79
1:A:439:ARG:HA	1:A:705:ARG:HG2	1.65	0.79
1:F:326:ASP:HB3	1:F:333:ARG:HH12	1.48	0.79
1:F:1099:GLU:HG2	1:F:1149:LEU:HD21	1.63	0.79
2:G:215:TRP:HE3	2:G:216:ASP:H	1.29	0.79
2:H:846:THR:HG21	2:H:866:HIS:HD2	1.46	0.79
2:I:521:VAL:HG11	2:I:549:ASN:HB2	1.65	0.79
2:J:485:ASP:HB3	2:J:488:PRO:HD2	1.65	0.79
2:K:471:ASP:HB3	2:K:474:THR:O	1.83	0.79
2:K:605:VAL:HB	2:K:628:ILE:HG13	1.64	0.79
1:C:1630:LYS:HD2	1:F:1273:ILE:HD11	1.65	0.79
1:E:965:TYR:CE1	1:E:1199:LEU:HD22	2.18	0.79
2:H:138:ARG:HB3	2:H:192:THR:HG23	1.64	0.79
2:K:1637:VAL:HG11	2:K:1679:LEU:HD13	1.65	0.79
1:B:628:TYR:HD1	1:B:629:SER:N	1.80	0.79
1:C:422:LEU:HD13	1:C:429:ILE:HG12	1.64	0.79
1:D:1330:GLU:OE1	1:D:1340:MET:HB3	1.83	0.79
2:G:485:ASP:HB3	2:G:488:PRO:HD2	1.64	0.79
2:G:590:VAL:HG23	2:G:1091:HIS:NE2	1.97	0.79
2:J:1616:VAL:HG11	2:J:1679:LEU:HD12	1.64	0.79
2:K:914:TRP:CD1	2:K:916:GLY:HA3	2.18	0.79
2:L:1871:VAL:HG21	2:L:2004:PRO:HD3	1.63	0.79
1:C:392:ASP:HB3	1:C:395:LYS:HD2	1.66	0.78
1:D:392:ASP:HB3	1:D:395:LYS:HD2	1.64	0.78
2:G:674:ILE:HD13	2:G:705:TYR:CE2	2.18	0.78
2:H:465:LEU:O	2:H:479:ARG:HD3	1.82	0.78
2:K:706:ILE:HG22	2:K:707:GLN:HG2	1.65	0.78
2:H:1554:PRO:HG3	2:H:1659:ILE:HD11	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:467:ILE:HG23	2:I:468:PRO:HD2	1.65	0.78
2:I:2005:PHE:CA	2:I:2010:LEU:HD11	2.13	0.78
2:L:605:VAL:HB	2:L:628:ILE:HG13	1.64	0.78
2:L:1457:HIS:ND1	2:L:1487:THR:HG22	1.98	0.78
1:D:27:ARG:HG3	2:J:2045:ALA:HB2	1.66	0.78
1:D:30:GLU:HB2	2:J:2045:ALA:HB1	1.65	0.78
1:E:486:VAL:HG11	1:E:647:GLY:HA3	1.66	0.78
2:H:57:PRO:HG3	2:H:68:GLU:HG3	1.63	0.78
2:H:190:TYR:HD1	2:H:201:ILE:HD13	1.46	0.78
2:H:251:PRO:HG3	2:H:316:PHE:HA	1.63	0.78
2:H:1436:ARG:NH2	2:H:1602:LEU:HD21	1.97	0.78
1:C:1499:ARG:HD3	1:F:1476:ARG:HH12	1.48	0.78
1:E:881:LEU:HA	1:E:884:MET:HG3	1.65	0.78
1:E:998:GLY:HA3	1:E:1361:VAL:HG13	1.64	0.78
1:F:1703:VAL:CG1	1:F:1711:LEU:HB3	2.11	0.78
2:G:1985:GLN:CG	2:G:1986:PRO:HD3	2.11	0.78
2:H:674:ILE:HD13	2:H:705:TYR:CE2	2.18	0.78
2:L:674:ILE:HD13	2:L:705:TYR:CE2	2.18	0.78
1:E:1223:GLY:HA3	1:E:1276:PRO:HD2	1.66	0.78
2:H:1616:VAL:HG11	2:H:1679:LEU:HD12	1.63	0.78
2:K:485:ASP:CB	2:K:488:PRO:HD2	2.14	0.78
2:K:1183:GLN:CB	2:K:1278:MET:HE3	2.14	0.78
2:K:1764:MET:HB3	2:K:1780:ILE:HD12	1.65	0.78
2:L:1007:LEU:H	2:L:1007:LEU:HD12	1.45	0.78
2:L:1115:TYR:HB3	2:L:1267:PRO:HB3	1.65	0.78
2:L:1183:GLN:HB2	2:L:1278:MET:HE3	1.66	0.78
2:L:1369:ASP:OD1	2:L:1371:LEU:HB3	1.83	0.78
1:D:326:ASP:HB3	1:D:333:ARG:HH12	1.46	0.78
2:G:610:PRO:HD2	3:G:2101:FMN:H6	1.66	0.78
2:I:215:TRP:HE3	2:I:216:ASP:H	1.31	0.78
2:J:190:TYR:HD1	2:J:201:ILE:HD13	1.48	0.78
2:J:1436:ARG:NH2	2:J:1602:LEU:HD21	1.98	0.78
2:L:251:PRO:HG3	2:L:316:PHE:HA	1.63	0.78
2:H:638:ALA:HA	2:H:672:TRP:CZ3	2.19	0.78
2:H:1090:ILE:O	2:H:1094:HIS:CD2	2.37	0.78
2:H:1479:HIS:HD2	2:H:1481:ILE:HG12	1.49	0.78
2:I:251:PRO:HG3	2:I:316:PHE:HA	1.63	0.78
2:K:376:ARG:HB3	2:K:394:PRO:HG2	1.65	0.78
1:D:1278:GLY:HA2	1:D:1630:LYS:HE2	1.66	0.78
2:H:2005:PHE:CA	2:H:2010:LEU:HD11	2.13	0.78
1:B:427:ARG:HG3	1:B:427:ARG:NH1	1.88	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:339:GLN:NE2	1:E:339:GLN:HE21	1.82	0.78
1:E:1674:ILE:HD11	2:K:1011:GLN:HG3	1.64	0.78
1:F:868:VAL:HG11	1:F:908:ILE:HD11	1.63	0.78
2:G:1616:VAL:HG11	2:G:1679:LEU:HD12	1.66	0.78
2:H:1918:VAL:HG13	2:H:2006:HIS:HB2	1.64	0.78
2:J:605:VAL:HB	2:J:628:ILE:HG13	1.66	0.78
2:J:1985:GLN:CG	2:J:1986:PRO:HD3	2.13	0.78
2:L:1404:VAL:HG22	2:L:1413:VAL:HG22	1.66	0.78
1:B:1610:ARG:HH11	1:B:1610:ARG:CG	1.90	0.78
1:E:43:ARG:NH1	2:K:1687:GLN:HE21	1.81	0.78
1:E:1241:LEU:HD23	1:E:1243:LYS:HE3	1.66	0.78
1:F:486:VAL:HG11	1:F:647:GLY:HA3	1.65	0.78
2:H:487:ILE:HB	2:H:488:PRO:HD3	1.66	0.78
2:I:501:TRP:HE1	2:I:528:THR:CG2	1.97	0.78
2:J:638:ALA:HA	2:J:672:TRP:CZ3	2.19	0.78
2:K:638:ALA:HA	2:K:672:TRP:CZ3	2.18	0.78
2:K:867:LYS:HD3	2:K:1065:CYS:SG	2.24	0.78
1:A:683:THR:HB	1:A:714:PHE:HB3	1.66	0.77
1:B:729:ILE:HA	1:B:736:LEU:CD2	2.13	0.77
1:C:1099:GLU:HG2	1:C:1149:LEU:HD21	1.63	0.77
1:C:1674:ILE:HD11	2:I:1011:GLN:HG3	1.63	0.77
1:F:40:ARG:HH21	1:F:74:VAL:HG22	1.48	0.77
2:I:376:ARG:HB3	2:I:394:PRO:HG2	1.66	0.77
2:I:781:GLY:HA2	2:I:1071:VAL:HG13	1.66	0.77
2:I:914:TRP:NE1	2:I:916:GLY:HA3	1.99	0.77
2:I:1767:GLU:CB	2:I:2016:PRO:HG3	2.11	0.77
2:J:467:ILE:HG23	2:J:468:PRO:HD2	1.66	0.77
2:K:1918:VAL:HG13	2:K:2006:HIS:HB2	1.66	0.77
1:F:538:ARG:HA	1:F:585:MET:HE1	1.63	0.77
2:G:638:ALA:HA	2:G:672:TRP:CZ3	2.19	0.77
2:J:485:ASP:CB	2:J:488:PRO:HD2	2.15	0.77
2:J:1338:ARG:NH2	2:L:327:PRO:CD	2.44	0.77
2:L:914:TRP:CD1	2:L:916:GLY:HA3	2.19	0.77
1:A:422:LEU:HD13	1:A:429:ILE:HG12	1.65	0.77
1:B:72:THR:HB	1:B:74:VAL:HG23	1.63	0.77
1:D:1108:PRO:HG3	1:D:1141:ARG:HE	1.50	0.77
1:F:612:ILE:HG23	1:F:628:TYR:CD2	2.18	0.77
2:G:190:TYR:HD1	2:G:201:ILE:HD13	1.47	0.77
2:H:396:ILE:H	2:H:396:ILE:HD12	1.47	0.77
2:I:750:GLY:HA2	2:I:865:ILE:HG23	1.65	0.77
2:I:1007:LEU:H	2:I:1007:LEU:HD12	1.47	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:743:TRP:CD2	2:J:761:ILE:HD11	2.19	0.77
1:A:729:ILE:HA	1:A:736:LEU:HD21	1.65	0.77
1:A:1674:ILE:HD11	2:G:1011:GLN:HG3	1.65	0.77
1:C:40:ARG:NH2	1:C:74:VAL:HG22	1.99	0.77
1:C:486:VAL:HG11	1:C:647:GLY:HA3	1.66	0.77
1:C:973:TRP:CE2	1:C:1648:LYS:HB2	2.20	0.77
2:G:743:TRP:CD2	2:G:761:ILE:HD11	2.20	0.77
2:J:410:ALA:HB1	2:J:414:LEU:HD12	1.66	0.77
2:K:1919:ASN:HB2	2:K:1928:VAL:HB	1.66	0.77
2:L:487:ILE:HB	2:L:488:PRO:HD3	1.66	0.77
2:L:1288:PHE:O	2:L:1292:VAL:HG23	1.84	0.77
1:A:1565:PRO:HG3	1:A:1572:TRP:CZ3	2.19	0.77
2:I:1764:MET:HB3	2:I:1780:ILE:HD12	1.66	0.77
2:J:487:ILE:HB	2:J:488:PRO:HD3	1.67	0.77
2:L:511:THR:HG22	2:L:512:HIS:HD2	1.45	0.77
2:L:1616:VAL:HG11	2:L:1679:LEU:HD12	1.66	0.77
1:B:406:ALA:HA	1:B:439:ARG:HH11	1.48	0.77
1:B:1330:GLU:OE1	1:B:1340:MET:HB3	1.83	0.77
2:G:485:ASP:CB	2:G:488:PRO:HD2	2.15	0.77
2:G:501:TRP:HE1	2:G:528:THR:CG2	1.98	0.77
2:H:1183:GLN:HB2	2:H:1278:MET:HE3	1.64	0.77
2:I:605:VAL:HB	2:I:628:ILE:HG13	1.64	0.77
2:L:501:TRP:HE1	2:L:528:THR:CG2	1.97	0.77
1:D:486:VAL:HG11	1:D:647:GLY:HA3	1.67	0.77
1:E:326:ASP:HB3	1:E:333:ARG:HH12	1.48	0.77
2:G:376:ARG:HB3	2:G:394:PRO:HG2	1.65	0.77
2:H:857:VAL:HG13	2:H:876:TRP:NE1	2.00	0.77
2:K:590:VAL:HG23	2:K:1091:HIS:NE2	1.98	0.77
1:B:868:VAL:HG11	1:B:908:ILE:HD11	1.67	0.77
1:B:1278:GLY:HA2	1:B:1630:LYS:HE2	1.66	0.77
1:C:1623:THR:HG22	1:C:1633:GLN:HG3	1.66	0.77
1:D:616:HIS:HA	1:D:633:THR:HG23	1.67	0.77
1:D:1623:THR:HG22	1:D:1633:GLN:HG3	1.66	0.77
1:E:72:THR:HB	1:E:74:VAL:HG23	1.66	0.77
2:H:172:ILE:HD11	2:H:501:TRP:HZ2	1.50	0.77
2:I:420:PRO:HA	2:I:754:PHE:HB3	1.67	0.77
2:J:1090:ILE:O	2:J:1094:HIS:CD2	2.38	0.77
1:D:72:THR:HB	1:D:74:VAL:HG23	1.67	0.77
1:D:1079:ARG:HH11	1:D:1079:ARG:CG	1.97	0.77
1:D:1565:PRO:HG3	1:D:1572:TRP:CZ3	2.20	0.77
1:E:1278:GLY:HA2	1:E:1630:LYS:HE2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1851:MET:HE3	2:J:2025:ILE:HG12	1.67	0.77
2:K:215:TRP:HE3	2:K:216:ASP:H	1.32	0.77
2:K:1521:GLU:OE2	2:K:2028:THR:HG22	1.85	0.77
2:L:172:ILE:HD11	2:L:501:TRP:HZ2	1.48	0.77
2:L:511:THR:CG2	2:L:512:HIS:CD2	2.68	0.77
1:A:392:ASP:HB3	1:A:395:LYS:HD2	1.67	0.77
1:A:689:ARG:CZ	1:A:1339:GLU:HG2	2.14	0.77
1:F:612:ILE:HG23	1:F:628:TYR:HD2	1.49	0.77
2:G:31:LEU:HD13	2:G:75:LEU:HD11	1.68	0.77
2:I:290:VAL:HA	2:I:490:LEU:HD13	1.67	0.77
2:K:814:SER:HB2	3:K:2101:FMN:O3P	1.85	0.77
2:L:1179:GLU:H	2:L:1179:GLU:CD	1.92	0.77
1:D:40:ARG:NH2	1:D:74:VAL:HG22	1.99	0.76
1:D:407:ARG:NH1	1:D:1606:VAL:HG23	2.01	0.76
1:E:729:ILE:HA	1:E:736:LEU:HD21	1.65	0.76
2:G:616:ASP:OD2	2:G:823:HIS:HE1	1.68	0.76
2:H:1007:LEU:H	2:H:1007:LEU:HD12	1.48	0.76
2:L:410:ALA:HB1	2:L:414:LEU:HD12	1.67	0.76
2:L:698:SER:HB3	2:L:701:VAL:CG2	2.15	0.76
1:A:339:GLN:HE21	1:D:339:GLN:NE2	1.80	0.76
1:E:406:ALA:HA	1:E:439:ARG:HH11	1.51	0.76
1:E:983:GLN:HB3	1:E:1418:ILE:HD13	1.65	0.76
2:H:1265:TYR:CZ	2:H:1267:PRO:HG3	2.21	0.76
2:H:1985:GLN:CG	2:H:1986:PRO:HD3	2.15	0.76
1:C:72:THR:HB	1:C:74:VAL:HG23	1.67	0.76
1:F:1565:PRO:HG3	1:F:1572:TRP:CZ3	2.20	0.76
2:H:511:THR:HG22	2:H:512:HIS:HD2	1.47	0.76
2:J:698:SER:HB3	2:J:701:VAL:CG2	2.16	0.76
2:K:487:ILE:HB	2:K:488:PRO:HD3	1.67	0.76
2:L:1871:VAL:CG2	2:L:2004:PRO:HD3	2.14	0.76
1:A:1330:GLU:OE1	1:A:1340:MET:HB3	1.86	0.76
1:B:683:THR:HB	1:B:714:PHE:HB3	1.68	0.76
1:B:1565:PRO:HG3	1:B:1572:TRP:CZ3	2.20	0.76
1:C:669:VAL:O	1:C:673:LEU:HD12	1.86	0.76
1:E:422:LEU:HD13	1:E:429:ILE:HG12	1.67	0.76
2:G:1919:ASN:HB2	2:G:1928:VAL:HB	1.67	0.76
2:I:190:TYR:HD1	2:I:201:ILE:HD13	1.51	0.76
2:I:743:TRP:CD2	2:I:761:ILE:HD11	2.20	0.76
2:L:1175:MET:HE3	2:L:1192:LEU:HD11	1.67	0.76
2:L:1335:PHE:HE1	2:L:1629:ILE:CD1	1.98	0.76
1:A:755:GLU:HG2	1:F:831:GLU:HG2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:70:ALA:HB2	2:L:407:LYS:NZ	2.01	0.76
1:D:824:LEU:HB3	1:D:839:ILE:CD1	2.15	0.76
1:F:729:ILE:HA	1:F:736:LEU:HD21	1.65	0.76
2:G:1265:TYR:CZ	2:G:1267:PRO:HG3	2.21	0.76
2:L:1265:TYR:CZ	2:L:1267:PRO:HG3	2.20	0.76
2:L:2005:PHE:CA	2:L:2010:LEU:HD11	2.14	0.76
1:B:729:ILE:HA	1:B:736:LEU:HD21	1.65	0.76
1:E:43:ARG:NH1	2:K:1687:GLN:NE2	2.34	0.76
1:F:729:ILE:HA	1:F:736:LEU:CD2	2.15	0.76
2:J:468:PRO:CG	2:J:479:ARG:HH21	1.98	0.76
2:L:215:TRP:HE3	2:L:216:ASP:H	1.32	0.76
1:A:40:ARG:NH2	1:A:74:VAL:HG22	1.98	0.76
1:C:855:ALA:HA	1:C:919:ARG:HH21	1.51	0.76
1:C:1330:GLU:OE1	1:C:1340:MET:HB3	1.84	0.76
1:D:729:ILE:HA	1:D:736:LEU:CD2	2.16	0.76
2:J:1183:GLN:HB2	2:J:1278:MET:HE3	1.67	0.76
2:L:396:ILE:HD12	2:L:396:ILE:H	1.48	0.76
1:A:339:GLN:NE2	1:D:339:GLN:HE21	1.81	0.76
1:A:532:ILE:CG2	1:A:907:PHE:CB	2.64	0.76
1:A:1623:THR:HG22	1:A:1633:GLN:HG3	1.66	0.76
1:C:538:ARG:HA	1:C:585:MET:HE1	1.67	0.76
1:C:1108:PRO:HG3	1:C:1141:ARG:HE	1.49	0.76
1:E:824:LEU:HB3	1:E:839:ILE:CD1	2.16	0.76
1:F:1108:PRO:HG3	1:F:1141:ARG:HE	1.49	0.76
2:H:1468:ARG:HG2	2:H:1468:ARG:NH1	2.00	0.76
2:K:1007:LEU:H	2:K:1007:LEU:HD12	1.49	0.76
2:K:1468:ARG:HG2	2:K:1468:ARG:NH1	1.98	0.76
2:K:2005:PHE:CA	2:K:2010:LEU:HD11	2.15	0.76
2:L:1694:PHE:CD2	2:L:1843:ALA:HA	2.21	0.76
1:A:81:TYR:CE1	2:G:1821:MET:HE3	2.21	0.76
1:F:427:ARG:NH1	1:F:492:ILE:HG12	2.00	0.76
1:F:628:TYR:HD1	1:F:629:SER:N	1.84	0.76
1:F:1330:GLU:OE1	1:F:1340:MET:HB3	1.85	0.76
2:G:1339:GLY:HA2	2:I:376:ARG:HH21	1.50	0.76
2:G:1460:THR:HG22	2:G:1462:GLN:H	1.51	0.76
2:H:914:TRP:NE1	2:H:916:GLY:HA3	1.99	0.76
2:K:1175:MET:HE3	2:K:1192:LEU:HD11	1.68	0.76
1:B:998:GLY:HA3	1:B:1361:VAL:HG13	1.68	0.76
1:B:1686:PRO:HB2	1:B:1713:PHE:CD2	2.21	0.76
1:E:628:TYR:HD1	1:E:629:SER:N	1.84	0.76
2:G:251:PRO:HG3	2:G:316:PHE:HA	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:511:THR:HG22	2:G:512:HIS:HD2	1.51	0.76
2:G:1479:HIS:HD2	2:G:1481:ILE:HG12	1.51	0.76
2:H:327:PRO:CD	2:I:1338:ARG:HH21	1.98	0.76
2:H:1067:LEU:HD13	3:H:2101:FMN:HM72	1.66	0.76
2:H:1919:ASN:HB2	2:H:1928:VAL:HB	1.66	0.76
2:I:1479:HIS:HD2	2:I:1481:ILE:HG12	1.51	0.76
2:J:1179:GLU:H	2:J:1179:GLU:CD	1.94	0.76
2:K:38:PRO:HD3	2:K:104:LEU:HD11	1.68	0.76
1:A:1499:ARG:HD3	1:E:1476:ARG:NH1	2.01	0.75
1:E:947:ASP:O	1:E:951:LEU:HG	1.86	0.75
2:H:914:TRP:CD1	2:H:916:GLY:HA3	2.21	0.75
2:J:511:THR:HG22	2:J:512:HIS:HD2	1.52	0.75
1:A:998:GLY:HA3	1:A:1361:VAL:HG13	1.67	0.75
1:B:824:LEU:HB3	1:B:839:ILE:CD1	2.16	0.75
2:G:1764:MET:HB3	2:G:1780:ILE:HD12	1.67	0.75
2:H:158:LEU:HD22	2:H:169:ILE:HD11	1.68	0.75
2:H:215:TRP:HE3	2:H:216:ASP:H	1.31	0.75
2:J:1460:THR:HG22	2:J:1462:GLN:H	1.49	0.75
2:K:635:TYR:CG	2:K:641:MET:HG3	2.22	0.75
2:L:706:ILE:HG22	2:L:707:GLN:HG2	1.69	0.75
2:L:1479:HIS:HD2	2:L:1481:ILE:HG12	1.49	0.75
1:A:1094:LYS:HE3	1:A:1316:TYR:CD1	2.21	0.75
1:C:427:ARG:HH12	1:C:492:ILE:CG1	2.00	0.75
1:E:392:ASP:HB3	1:E:395:LYS:HD2	1.67	0.75
2:G:410:ALA:HB1	2:G:414:LEU:HD12	1.69	0.75
2:H:1179:GLU:CD	2:H:1179:GLU:H	1.94	0.75
2:I:511:THR:CG2	2:I:512:HIS:CD2	2.69	0.75
2:I:590:VAL:HG23	2:I:1091:HIS:NE2	2.00	0.75
2:J:290:VAL:HA	2:J:490:LEU:HD13	1.67	0.75
2:K:172:ILE:HD11	2:K:501:TRP:HZ2	1.51	0.75
2:K:1265:TYR:CZ	2:K:1267:PRO:HG3	2.21	0.75
2:L:1468:ARG:HG2	2:L:1468:ARG:NH1	1.97	0.75
1:A:1317:GLU:HG3	1:E:1250:LEU:HB2	1.69	0.75
1:D:1703:VAL:HG11	1:D:1711:LEU:HB3	1.69	0.75
1:E:67:ALA:CB	2:J:371:HIS:CE1	2.70	0.75
1:E:729:ILE:HA	1:E:736:LEU:CD2	2.15	0.75
1:E:962:ASN:ND2	2:K:1006:GLN:HE22	1.80	0.75
2:G:1375:HIS:HE1	2:G:1610:MET:SD	2.09	0.75
2:I:846:THR:HG21	2:I:866:HIS:HD2	1.50	0.75
2:I:1183:GLN:HB2	2:I:1278:MET:HE3	1.68	0.75
2:J:1369:ASP:OD1	2:J:1371:LEU:HB3	1.84	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:674:ILE:HD13	2:K:705:TYR:CE2	2.21	0.75
2:K:1346:MET:HE3	2:K:1617:ARG:NH2	2.00	0.75
2:L:638:ALA:HA	2:L:672:TRP:CZ3	2.22	0.75
2:I:487:ILE:HB	2:I:488:PRO:HD3	1.67	0.75
2:I:1517:LEU:HG	2:I:1523:ILE:HD11	1.67	0.75
2:J:327:PRO:CD	2:K:1338:ARG:HH21	1.98	0.75
2:J:1499:LYS:HB3	2:J:1505:SER:HB3	1.69	0.75
2:K:967:GLU:HG2	2:K:1000:TYR:CE1	2.21	0.75
1:C:893:GLN:OE1	2:J:1751:GLY:HA2	1.86	0.75
2:H:467:ILE:HG23	2:H:468:PRO:HD2	1.67	0.75
2:J:610:PRO:HD2	3:J:2101:FMN:H6	1.67	0.75
2:K:350:MET:HE2	2:K:435:ILE:HD12	1.66	0.75
2:K:1554:PRO:HG3	2:K:1659:ILE:HD11	1.69	0.75
2:L:857:VAL:CG1	2:L:876:TRP:NE1	2.50	0.75
2:L:967:GLU:HG2	2:L:1000:TYR:CE1	2.22	0.75
1:B:1108:PRO:HG3	1:B:1141:ARG:HE	1.52	0.75
1:E:616:HIS:HA	1:E:633:THR:HG23	1.69	0.75
1:E:1079:ARG:HH11	1:E:1079:ARG:CG	1.99	0.75
1:F:72:THR:HB	1:F:74:VAL:HG23	1.69	0.75
2:G:465:LEU:O	2:G:479:ARG:HD3	1.86	0.75
2:G:1897:GLU:HG2	2:G:1901:GLN:HE21	1.52	0.75
2:I:172:ILE:HD11	2:I:501:TRP:HZ2	1.52	0.75
2:I:1090:ILE:O	2:I:1094:HIS:CD2	2.39	0.75
2:I:1175:MET:HE3	2:I:1192:LEU:HD11	1.67	0.75
2:J:38:PRO:HD3	2:J:104:LEU:HD11	1.68	0.75
2:J:750:GLY:HA2	2:J:865:ILE:HG23	1.67	0.75
2:J:1554:PRO:HG3	2:J:1659:ILE:HD11	1.69	0.75
1:A:831:GLU:HG2	1:F:755:GLU:HG2	1.68	0.75
1:C:616:HIS:HA	1:C:633:THR:HG23	1.68	0.75
1:C:1250:LEU:HB2	1:F:1317:GLU:HG3	1.69	0.75
1:E:612:ILE:HG12	1:E:628:TYR:CD2	2.20	0.75
2:G:1436:ARG:HH22	2:G:1602:LEU:HD21	1.49	0.75
2:H:1299:VAL:HG23	2:H:1301:PHE:CE2	2.22	0.75
2:I:610:PRO:HD2	3:I:2101:FMN:H6	1.69	0.75
2:I:967:GLU:HG2	2:I:1000:TYR:CE1	2.22	0.75
2:J:1175:MET:HE3	2:J:1192:LEU:HD11	1.66	0.75
2:K:1803:THR:HA	2:K:1806:THR:HB	1.68	0.75
2:L:855:ILE:HD13	2:L:856:THR:H	1.52	0.75
1:B:541:VAL:HG21	1:B:585:MET:HE2	1.68	0.75
1:D:868:VAL:HG11	1:D:908:ILE:HD11	1.69	0.75
1:E:40:ARG:NH2	1:E:74:VAL:HG22	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:49:LYS:O	2:H:53:LEU:HG	1.86	0.75
2:I:1404:VAL:HG22	2:I:1413:VAL:HG22	1.69	0.75
2:J:1299:VAL:HG23	2:J:1301:PHE:CE2	2.22	0.75
2:L:846:THR:HG21	2:L:866:HIS:HD2	1.50	0.75
2:L:867:LYS:HD3	2:L:1065:CYS:SG	2.27	0.75
1:A:824:LEU:HB3	1:A:839:ILE:CD1	2.16	0.74
1:B:755:GLU:HG2	1:E:831:GLU:HG2	1.69	0.74
1:B:1317:GLU:HG3	1:D:1250:LEU:HB2	1.67	0.74
1:D:729:ILE:HA	1:D:736:LEU:HD21	1.69	0.74
1:F:392:ASP:HB3	1:F:395:LYS:HD2	1.69	0.74
2:G:1517:LEU:HG	2:G:1523:ILE:HD11	1.68	0.74
2:H:1175:MET:HE3	2:H:1192:LEU:HD11	1.67	0.74
2:K:49:LYS:O	2:K:53:LEU:HG	1.85	0.74
1:A:72:THR:HB	1:A:74:VAL:HG23	1.69	0.74
1:B:1490:GLY:O	1:B:1509:THR:HB	1.87	0.74
1:B:1663:LYS:HG2	2:H:1007:LEU:HD11	1.68	0.74
1:F:427:ARG:HH12	1:F:492:ILE:CG1	1.99	0.74
2:G:846:THR:HG21	2:G:866:HIS:HD2	1.50	0.74
2:G:1090:ILE:O	2:G:1094:HIS:CD2	2.39	0.74
2:H:1369:ASP:OD1	2:H:1371:LEU:HB3	1.87	0.74
2:I:1616:VAL:HG11	2:I:1679:LEU:HD12	1.68	0.74
2:K:290:VAL:HA	2:K:490:LEU:HD13	1.70	0.74
1:A:486:VAL:HG11	1:A:647:GLY:HA3	1.69	0.74
1:A:1079:ARG:HH11	1:A:1079:ARG:CG	1.96	0.74
1:B:40:ARG:NH2	1:B:74:VAL:HG22	2.03	0.74
1:F:689:ARG:CZ	1:F:1339:GLU:HG2	2.17	0.74
2:H:410:ALA:HB1	2:H:414:LEU:HD12	1.69	0.74
2:H:468:PRO:CG	2:H:479:ARG:HH21	1.99	0.74
2:H:1335:PHE:CE2	2:H:1345:PRO:HG3	2.21	0.74
2:I:1369:ASP:OD1	2:I:1371:LEU:HB3	1.87	0.74
2:J:1517:LEU:HG	2:J:1523:ILE:HD11	1.66	0.74
2:K:87:VAL:HG21	2:K:102:LEU:HD12	1.69	0.74
2:K:855:ILE:HD13	2:K:856:THR:H	1.52	0.74
2:K:857:VAL:HG13	2:K:876:TRP:HE1	1.47	0.74
2:K:1090:ILE:O	2:K:1094:HIS:CD2	2.40	0.74
2:L:87:VAL:HG21	2:L:102:LEU:HD12	1.69	0.74
2:L:1767:GLU:HB2	2:L:2016:PRO:HG3	1.70	0.74
1:A:427:ARG:HD2	1:A:490:VAL:HG12	1.68	0.74
1:D:439:ARG:HA	1:D:705:ARG:HG2	1.68	0.74
1:F:1032:MET:HE2	1:F:1165:PRO:HB3	1.69	0.74
2:G:914:TRP:CD1	2:G:916:GLY:HA3	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:376:ARG:HB3	2:H:394:PRO:HG2	1.68	0.74
2:H:855:ILE:HD13	2:H:856:THR:H	1.52	0.74
2:H:1803:THR:HA	2:H:1806:THR:HB	1.69	0.74
2:I:465:LEU:O	2:I:479:ARG:HD3	1.87	0.74
2:I:1067:LEU:HD13	3:I:2101:FMN:HM72	1.68	0.74
2:J:172:ILE:HD11	2:J:501:TRP:HZ2	1.53	0.74
2:L:272:PRO:O	2:L:276:LEU:HB2	1.87	0.74
1:C:628:TYR:HD1	1:C:629:SER:N	1.86	0.74
1:C:689:ARG:HD2	1:C:1339:GLU:CD	2.12	0.74
1:E:1094:LYS:HE3	1:E:1316:TYR:CD1	2.22	0.74
2:I:38:PRO:HD3	2:I:104:LEU:HD11	1.67	0.74
2:J:846:THR:HG21	2:J:866:HIS:HD2	1.51	0.74
2:J:1265:TYR:CZ	2:J:1267:PRO:HG3	2.23	0.74
2:J:1918:VAL:HG13	2:J:2006:HIS:CB	2.16	0.74
2:L:1919:ASN:HB2	2:L:1928:VAL:HB	1.69	0.74
1:D:1574:LEU:HD12	1:D:1622:VAL:HG11	1.70	0.74
2:J:49:LYS:O	2:J:53:LEU:HG	1.87	0.74
2:J:1919:ASN:HB2	2:J:1928:VAL:HB	1.69	0.74
2:K:410:ALA:HB1	2:K:414:LEU:HD12	1.70	0.74
1:A:612:ILE:HD12	1:F:579:MET:CE	2.16	0.74
1:A:628:TYR:HD1	1:A:629:SER:N	1.85	0.74
1:A:973:TRP:CE2	1:A:1648:LYS:HB2	2.22	0.74
1:C:1565:PRO:HG3	1:C:1572:TRP:CZ3	2.23	0.74
2:G:605:VAL:HB	2:G:628:ILE:HG13	1.68	0.74
2:J:327:PRO:HD2	2:K:1338:ARG:NH2	2.01	0.74
2:K:698:SER:HB3	2:K:701:VAL:CG2	2.17	0.74
2:L:31:LEU:HD13	2:L:75:LEU:HD11	1.68	0.74
1:B:486:VAL:HG11	1:B:647:GLY:HA3	1.68	0.74
1:D:962:ASN:HB3	2:J:969:ARG:HD2	1.70	0.74
2:G:663:ILE:HD13	2:G:666:ASN:HB3	1.70	0.74
2:K:158:LEU:HD22	2:K:169:ILE:HD11	1.70	0.74
2:K:610:PRO:HD2	3:K:2101:FMN:H6	1.69	0.74
2:K:1269:ALA:HB1	2:K:1271:TYR:CZ	2.22	0.74
2:L:1594:ARG:HH11	2:L:1594:ARG:CG	1.94	0.74
1:A:616:HIS:HA	1:A:633:THR:HG23	1.70	0.74
1:A:983:GLN:HB3	1:A:1418:ILE:HD13	1.70	0.74
1:C:1703:VAL:CG1	1:C:1711:LEU:HB3	2.18	0.74
1:E:30:GLU:HB2	2:K:2045:ALA:HB1	1.70	0.74
1:E:683:THR:HB	1:E:714:PHE:HB3	1.69	0.74
2:G:1067:LEU:HD13	3:G:2101:FMN:HM72	1.69	0.74
2:H:38:PRO:HD3	2:H:104:LEU:HD11	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1517:LEU:HG	2:H:1523:ILE:HD11	1.68	0.74
2:J:1867:MET:O	2:J:2003:VAL:HG21	1.88	0.74
2:L:1318:ALA:HA	2:L:1391:VAL:HG21	1.70	0.74
1:A:540:LYS:HG3	1:A:608:LYS:N	2.03	0.74
1:B:392:ASP:HB3	1:B:395:LYS:HD2	1.70	0.74
1:B:538:ARG:HA	1:B:585:MET:HE1	1.70	0.74
1:B:1214:HIS:HD2	1:B:1216:SER:OG	1.70	0.74
1:B:1250:LEU:HB2	1:D:1317:GLU:HG3	1.70	0.74
1:C:1079:ARG:HH11	1:C:1079:ARG:CG	1.99	0.74
1:D:406:ALA:HA	1:D:439:ARG:HH11	1.52	0.74
1:E:868:VAL:HG11	1:E:908:ILE:HD11	1.68	0.74
1:F:1223:GLY:HA3	1:F:1276:PRO:HD2	1.70	0.74
2:I:706:ILE:HG22	2:I:707:GLN:HG2	1.69	0.74
2:I:1410:GLY:HA3	2:I:1436:ARG:HA	1.70	0.74
2:J:1764:MET:HB3	2:J:1780:ILE:HD12	1.67	0.74
2:K:616:ASP:OD2	2:K:823:HIS:HE1	1.71	0.74
1:A:1278:GLY:HA2	1:A:1630:LYS:HE2	1.68	0.73
1:E:964:LYS:O	1:E:966:PRO:HD3	1.88	0.73
2:G:1960:MET:HB3	2:G:1964:ASP:HB2	1.70	0.73
2:H:501:TRP:HE1	2:H:528:THR:CG2	2.00	0.73
2:I:22:ARG:HG3	2:I:39:THR:HA	1.69	0.73
2:I:49:LYS:O	2:I:53:LEU:HG	1.87	0.73
2:I:1123:ALA:HB3	2:I:1126:GLU:HG3	1.69	0.73
2:I:1499:LYS:HB3	2:I:1505:SER:HB3	1.68	0.73
2:K:600:VAL:HG13	2:K:601:PRO:HD2	1.70	0.73
2:L:38:PRO:HD3	2:L:104:LEU:HD11	1.69	0.73
1:A:552:ILE:HG21	1:A:566:PHE:CZ	2.22	0.73
1:A:868:VAL:HG11	1:A:908:ILE:HD11	1.68	0.73
1:D:628:TYR:HD1	1:D:629:SER:N	1.86	0.73
1:D:1214:HIS:HD2	1:D:1216:SER:OG	1.71	0.73
1:F:1032:MET:CE	1:F:1165:PRO:HB3	2.18	0.73
2:G:1338:ARG:HH21	2:I:327:PRO:HD2	1.51	0.73
2:H:610:PRO:HD2	3:H:2101:FMN:H6	1.69	0.73
2:H:706:ILE:HG22	2:H:707:GLN:HG2	1.70	0.73
2:H:2032:PRO:O	2:H:2036:ILE:HG13	1.89	0.73
2:I:87:VAL:HG21	2:I:102:LEU:HD12	1.69	0.73
2:J:663:ILE:HD13	2:J:666:ASN:HB3	1.70	0.73
2:L:1067:LEU:HD13	3:L:2101:FMN:HM72	1.70	0.73
1:C:1278:GLY:HA2	1:C:1630:LYS:HE2	1.69	0.73
1:F:947:ASP:O	1:F:951:LEU:HG	1.88	0.73
2:J:87:VAL:HG21	2:J:102:LEU:HD12	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1299:VAL:HG23	2:K:1301:PHE:CE2	2.23	0.73
2:L:1090:ILE:O	2:L:1094:HIS:CD2	2.38	0.73
2:H:511:THR:CG2	2:H:512:HIS:CD2	2.71	0.73
2:I:1468:ARG:HG2	2:I:1468:ARG:NH1	1.98	0.73
2:J:197:VAL:HG21	2:J:263:ILE:HD11	1.70	0.73
2:J:1067:LEU:HD13	3:J:2101:FMN:HM72	1.67	0.73
2:L:1436:ARG:HH22	2:L:1602:LEU:HD21	1.52	0.73
1:D:947:ASP:O	1:D:951:LEU:HG	1.88	0.73
1:D:1032:MET:CE	1:D:1165:PRO:HB3	2.19	0.73
2:G:49:LYS:O	2:G:53:LEU:HG	1.89	0.73
2:J:1007:LEU:H	2:J:1007:LEU:HD12	1.53	0.73
2:J:1442:TYR:HA	2:J:1445:THR:HG22	1.69	0.73
2:K:272:PRO:O	2:K:276:LEU:HB2	1.88	0.73
2:K:396:ILE:H	2:K:396:ILE:HD12	1.54	0.73
1:C:998:GLY:HA3	1:C:1361:VAL:HG13	1.71	0.73
1:E:407:ARG:NH1	1:E:1606:VAL:HG23	2.04	0.73
2:H:942:MET:HE2	2:H:955:LEU:HD13	1.71	0.73
2:I:31:LEU:HD13	2:I:75:LEU:HD11	1.71	0.73
2:I:511:THR:CG2	2:I:512:HIS:HD2	2.02	0.73
2:I:855:ILE:HD13	2:I:856:THR:H	1.53	0.73
2:K:1897:GLU:HG2	2:K:1901:GLN:HE21	1.53	0.73
1:A:669:VAL:O	1:A:673:LEU:HD12	1.89	0.73
1:B:371:GLN:HG2	1:E:372:LEU:HD11	1.71	0.73
1:D:1443:LEU:O	1:D:1447:VAL:HG23	1.88	0.73
2:G:698:SER:HB3	2:G:701:VAL:CG2	2.17	0.73
2:G:1468:ARG:HG2	2:G:1468:ARG:NH1	1.98	0.73
2:H:752:HIS:HE1	2:H:847:TYR:CE2	2.07	0.73
2:H:1269:ALA:HB1	2:H:1271:TYR:CZ	2.23	0.73
2:I:1919:ASN:HB2	2:I:1928:VAL:HB	1.69	0.73
2:J:706:ILE:HG22	2:J:707:GLN:HG2	1.70	0.73
2:L:1183:GLN:CB	2:L:1278:MET:HE3	2.18	0.73
1:A:1389:ILE:HG13	1:E:1268:SER:CB	2.04	0.73
1:F:1217:GLU:O	1:F:1299:ALA:HB1	1.89	0.73
2:H:31:LEU:HD13	2:H:75:LEU:HD11	1.69	0.73
2:I:1265:TYR:CZ	2:I:1267:PRO:HG3	2.24	0.73
2:J:501:TRP:HE1	2:J:528:THR:CG2	1.99	0.73
2:J:1694:PHE:CD2	2:J:1843:ALA:HA	2.24	0.73
1:A:532:ILE:HG21	1:A:907:PHE:HB2	1.69	0.73
2:G:1369:ASP:OD1	2:G:1371:LEU:HB3	1.89	0.73
2:H:471:ASP:HB3	2:H:474:THR:O	1.88	0.73
2:I:638:ALA:HA	2:I:672:TRP:CZ3	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:663:ILE:HD13	2:I:666:ASN:HB3	1.70	0.73
2:J:471:ASP:HB3	2:J:474:THR:O	1.88	0.73
2:J:955:LEU:HD21	2:J:1026:LYS:HB3	1.71	0.73
2:J:1305:LEU:HD11	2:J:1365:LYS:HD2	1.71	0.73
2:K:1179:GLU:CD	2:K:1179:GLU:H	1.97	0.73
2:L:600:VAL:HG13	2:L:601:PRO:HD2	1.71	0.73
1:B:1443:LEU:O	1:B:1447:VAL:HG23	1.89	0.73
1:F:998:GLY:HA3	1:F:1361:VAL:HG13	1.70	0.73
1:F:1214:HIS:HD2	1:F:1216:SER:OG	1.72	0.73
2:G:1694:PHE:CE2	2:G:1843:ALA:HA	2.24	0.73
2:I:725:GLN:HG2	2:I:764:MET:HE1	1.71	0.73
2:I:1694:PHE:CE2	2:I:1843:ALA:HA	2.24	0.73
2:I:1960:MET:HB3	2:I:1964:ASP:HB2	1.71	0.73
2:J:1335:PHE:CE2	2:J:1345:PRO:HG3	2.24	0.73
2:J:1897:GLU:HG2	2:J:1901:GLN:HE21	1.52	0.73
2:K:752:HIS:HE1	2:K:847:TYR:CE2	2.07	0.73
2:L:1554:PRO:HA	2:L:1659:ILE:HG12	1.70	0.73
1:C:1317:GLU:HG3	1:F:1250:LEU:HB2	1.70	0.72
1:F:683:THR:HB	1:F:714:PHE:HB3	1.70	0.72
2:G:1179:GLU:H	2:G:1179:GLU:CD	1.97	0.72
2:H:87:VAL:HG21	2:H:102:LEU:HD12	1.70	0.72
2:J:221:TYR:HE1	2:J:320:LEU:HD13	1.54	0.72
2:J:272:PRO:O	2:J:276:LEU:HB2	1.89	0.72
2:L:190:TYR:HD1	2:L:201:ILE:HD13	1.50	0.72
2:L:1335:PHE:CE2	2:L:1345:PRO:HG3	2.24	0.72
1:A:1431:GLN:HG2	1:E:1431:GLN:OE1	1.89	0.72
1:F:1278:GLY:HA2	1:F:1630:LYS:HE2	1.70	0.72
2:G:855:ILE:HD13	2:G:856:THR:H	1.53	0.72
2:H:1436:ARG:HH22	2:H:1602:LEU:HD21	1.53	0.72
2:H:1897:GLU:HG2	2:H:1901:GLN:HE21	1.51	0.72
2:H:1952:ASP:O	2:H:1956:LEU:HG	1.89	0.72
2:I:903:ILE:HD11	2:I:914:TRP:CE2	2.24	0.72
2:I:1289:TYR:CG	2:I:1370:LEU:HD23	2.23	0.72
2:I:1694:PHE:CD2	2:I:1843:ALA:HA	2.23	0.72
2:I:2019:SER:HA	2:I:2022:LEU:HD12	1.70	0.72
2:J:1694:PHE:CE2	2:J:1843:ALA:HA	2.24	0.72
2:K:31:LEU:HD13	2:K:75:LEU:HD11	1.69	0.72
2:K:1764:MET:HE3	2:K:1865:LEU:HD12	1.69	0.72
2:L:174:GLY:H	2:L:517:GLY:HA3	1.54	0.72
2:L:193:TYR:HD2	2:L:263:ILE:HD13	1.54	0.72
1:E:36:LEU:HD21	1:E:44:ILE:HD11	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:669:VAL:O	1:E:673:LEU:HD12	1.88	0.72
2:G:290:VAL:HA	2:G:490:LEU:HD13	1.71	0.72
2:I:698:SER:HB3	2:I:701:VAL:CG2	2.18	0.72
2:I:1506:SER:HA	2:I:1533:GLY:HA2	1.71	0.72
2:J:1092:ASN:HA	2:J:1095:ILE:HG12	1.72	0.72
2:K:193:TYR:HD2	2:K:263:ILE:HD13	1.55	0.72
2:K:503:THR:O	2:K:506:VAL:HG12	1.89	0.72
1:C:339:GLN:HE21	1:E:339:GLN:NE2	1.82	0.72
1:D:41:THR:HG22	2:J:1689:VAL:HG12	1.72	0.72
1:D:998:GLY:HA3	1:D:1361:VAL:HG13	1.69	0.72
2:G:1410:GLY:HA3	2:G:1436:ARG:HA	1.70	0.72
2:I:1318:ALA:HA	2:I:1391:VAL:HG21	1.70	0.72
2:K:1410:GLY:HA3	2:K:1436:ARG:HA	1.71	0.72
2:K:1499:LYS:HB3	2:K:1505:SER:HB3	1.70	0.72
2:K:1851:MET:HE3	2:K:2025:ILE:HG12	1.71	0.72
1:A:1323:ALA:HB1	1:A:1351:PHE:CE2	2.24	0.72
1:D:552:ILE:HG21	1:D:566:PHE:CZ	2.23	0.72
2:G:44:GLN:O	2:G:48:LEU:HG	1.90	0.72
2:G:685:VAL:HG23	2:G:1186:ARG:NH1	2.04	0.72
2:J:138:ARG:HB3	2:J:192:THR:HG23	1.69	0.72
2:J:771:CYS:HB3	2:J:774:ILE:HD12	1.71	0.72
2:K:1517:LEU:HG	2:K:1523:ILE:HD11	1.71	0.72
2:L:467:ILE:HG23	2:L:468:PRO:HD2	1.72	0.72
1:E:533:SER:O	1:E:611:THR:HA	1.90	0.72
2:H:967:GLU:HG2	2:H:1000:TYR:CE1	2.25	0.72
2:H:1183:GLN:CB	2:H:1278:MET:HE3	2.19	0.72
2:J:174:GLY:H	2:J:517:GLY:HA3	1.55	0.72
2:J:855:ILE:HD13	2:J:856:THR:H	1.54	0.72
2:K:327:PRO:CD	2:L:1338:ARG:HH21	2.02	0.72
2:L:511:THR:CG2	2:L:512:HIS:HD2	2.02	0.72
2:L:1410:GLY:HA3	2:L:1436:ARG:HA	1.70	0.72
2:L:1851:MET:HE3	2:L:2025:ILE:HG12	1.72	0.72
2:G:38:PRO:HD3	2:G:104:LEU:HD11	1.71	0.72
2:G:221:TYR:HE1	2:G:320:LEU:HD13	1.54	0.72
2:G:1867:MET:O	2:G:2003:VAL:HG21	1.89	0.72
2:H:1092:ASN:HA	2:H:1095:ILE:HG12	1.71	0.72
2:J:215:TRP:HE3	2:J:216:ASP:H	1.30	0.72
2:L:471:ASP:HB3	2:L:474:THR:O	1.88	0.72
2:L:1499:LYS:HB3	2:L:1505:SER:HB3	1.72	0.72
1:B:964:LYS:O	1:B:966:PRO:HD3	1.90	0.72
1:E:689:ARG:HH21	1:E:1591:ASN:ND2	1.87	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1213:VAL:HG22	1:E:1300:ARG:NH2	2.05	0.72
1:F:407:ARG:NH1	1:F:1606:VAL:HG23	2.04	0.72
2:H:814:SER:HB2	3:H:2101:FMN:O3P	1.89	0.72
2:I:914:TRP:CD1	2:I:916:GLY:HA3	2.23	0.72
2:J:1468:ARG:HG2	2:J:1468:ARG:NH1	1.97	0.72
2:K:221:TYR:HE1	2:K:320:LEU:HD13	1.54	0.72
2:L:1897:GLU:HG2	2:L:1901:GLN:HE21	1.54	0.72
1:B:36:LEU:HD21	1:B:44:ILE:HD11	1.72	0.72
1:F:673:LEU:O	1:F:678:ALA:HB3	1.89	0.72
2:J:1952:ASP:O	2:J:1956:LEU:HG	1.90	0.72
2:K:942:MET:HE2	2:K:955:LEU:HD13	1.70	0.72
1:B:1223:GLY:HA3	1:B:1276:PRO:HD2	1.72	0.72
1:E:1330:GLU:OE1	1:E:1340:MET:HB3	1.90	0.72
2:G:503:THR:O	2:G:506:VAL:HG12	1.88	0.72
2:G:1092:ASN:HA	2:G:1095:ILE:HG12	1.70	0.72
2:H:1410:GLY:HA3	2:H:1436:ARG:HA	1.72	0.72
2:H:1960:MET:HB3	2:H:1964:ASP:HB2	1.72	0.72
2:I:616:ASP:OD2	2:I:823:HIS:HE1	1.72	0.72
2:I:752:HIS:HE1	2:I:847:TYR:CE2	2.08	0.72
2:I:1092:ASN:HA	2:I:1095:ILE:HG12	1.71	0.72
2:I:1179:GLU:HA	2:I:1190:ASN:HB2	1.72	0.72
2:I:1745:LEU:HB3	2:I:1799:LEU:CD2	2.20	0.72
2:J:44:GLN:O	2:J:48:LEU:HG	1.89	0.72
2:J:1269:ALA:HB1	2:J:1271:TYR:CZ	2.24	0.72
2:K:468:PRO:CD	2:K:479:ARG:HH21	2.03	0.72
2:L:49:LYS:O	2:L:53:LEU:HG	1.90	0.72
2:L:1123:ALA:HB3	2:L:1126:GLU:CG	2.17	0.72
1:A:1273:ILE:HD11	1:E:1630:LYS:HD2	1.71	0.71
1:C:427:ARG:NH1	1:C:492:ILE:HG12	2.04	0.71
1:C:1443:LEU:O	1:C:1447:VAL:HG23	1.89	0.71
2:G:1175:MET:HE3	2:G:1192:LEU:HD11	1.72	0.71
2:H:43:PHE:CD2	2:I:22:ARG:HG2	2.25	0.71
2:I:1335:PHE:CE2	2:I:1345:PRO:HG3	2.24	0.71
2:J:31:LEU:HD13	2:J:75:LEU:HD11	1.70	0.71
2:K:511:THR:HG22	2:K:512:HIS:HD2	1.51	0.71
2:K:1092:ASN:HA	2:K:1095:ILE:HG12	1.72	0.71
2:L:610:PRO:HD2	3:L:2101:FMN:H6	1.69	0.71
2:L:1517:LEU:HG	2:L:1523:ILE:HD11	1.69	0.71
1:A:855:ALA:HA	1:A:919:ARG:HH21	1.56	0.71
1:A:1108:PRO:HG3	1:A:1141:ARG:HE	1.53	0.71
2:G:1335:PHE:CE2	2:G:1345:PRO:HG3	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1288:PHE:O	2:I:1292:VAL:HG23	1.90	0.71
2:I:1289:TYR:CB	2:I:1370:LEU:HD23	2.19	0.71
2:J:752:HIS:HE1	2:J:847:TYR:CE2	2.08	0.71
2:K:1288:PHE:O	2:K:1292:VAL:HG23	1.89	0.71
2:L:1960:MET:HB3	2:L:1964:ASP:HB2	1.71	0.71
1:A:1230:SER:HA	1:A:1311:GLN:HE22	1.55	0.71
1:C:1142:LEU:H	1:C:1142:LEU:HD12	1.55	0.71
1:E:552:ILE:HG21	1:E:566:PHE:CZ	2.25	0.71
2:G:706:ILE:HG22	2:G:707:GLN:HG2	1.72	0.71
2:I:129:ILE:HG23	2:I:132:LYS:H	1.55	0.71
2:I:193:TYR:HD2	2:I:263:ILE:HD13	1.55	0.71
2:L:1803:THR:HA	2:L:1806:THR:HB	1.70	0.71
1:B:689:ARG:NE	1:B:1339:GLU:HG2	2.05	0.71
1:F:689:ARG:NE	1:F:1339:GLU:HG2	2.05	0.71
1:F:999:LEU:HD21	1:F:1575:ASN:OD1	1.90	0.71
1:F:1079:ARG:HH11	1:F:1079:ARG:CG	2.02	0.71
2:G:1269:ALA:HB1	2:G:1271:TYR:CZ	2.25	0.71
2:I:1299:VAL:HG23	2:I:1301:PHE:CE2	2.24	0.71
2:J:2032:PRO:O	2:J:2036:ILE:HG13	1.90	0.71
2:K:938:MET:HE2	2:K:959:THR:HG22	1.73	0.71
1:A:406:ALA:HA	1:A:439:ARG:HH11	1.54	0.71
1:C:36:LEU:HD21	1:C:44:ILE:HD11	1.71	0.71
1:C:1230:SER:HA	1:C:1311:GLN:HE22	1.54	0.71
1:E:1510:TRP:HZ3	1:E:1642:LEU:HA	1.56	0.71
1:F:930:GLN:HA	1:F:933:ILE:HD12	1.72	0.71
2:H:857:VAL:CG1	2:H:876:TRP:NE1	2.53	0.71
2:H:1764:MET:HB3	2:H:1780:ILE:HD12	1.72	0.71
2:K:81:ALA:HB2	2:K:139:ALA:HA	1.72	0.71
2:K:1335:PHE:CE2	2:K:1345:PRO:HG3	2.26	0.71
2:L:221:TYR:HE1	2:L:320:LEU:HD13	1.54	0.71
1:A:1149:LEU:HB2	1:E:1149:LEU:HB2	1.72	0.71
1:D:30:GLU:HB2	2:J:2045:ALA:CB	2.20	0.71
2:H:1658:MET:HE2	2:H:1826:LEU:HD23	1.73	0.71
1:B:947:ASP:O	1:B:951:LEU:HG	1.90	0.71
1:B:983:GLN:HB3	1:B:1418:ILE:HD13	1.71	0.71
1:B:1160:VAL:HB	1:B:1352:MET:HE1	1.73	0.71
1:C:1214:HIS:HD2	1:C:1216:SER:OG	1.74	0.71
1:F:964:LYS:O	1:F:966:PRO:HD3	1.90	0.71
2:G:87:VAL:HG21	2:G:102:LEU:HD12	1.71	0.71
2:G:1803:THR:HA	2:G:1806:THR:HB	1.72	0.71
2:G:1851:MET:HE3	2:G:2025:ILE:HG12	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1506:SER:HA	2:H:1533:GLY:HA2	1.73	0.71
2:J:2008:THR:O	2:J:2011:ARG:HB2	1.90	0.71
2:K:725:GLN:HG2	2:K:764:MET:HE1	1.70	0.71
2:L:1120:ILE:CD1	2:L:1167:ASN:O	2.38	0.71
1:F:1230:SER:HA	1:F:1311:GLN:HE22	1.56	0.71
2:G:752:HIS:HE1	2:G:847:TYR:CE2	2.09	0.71
2:H:129:ILE:HG23	2:H:132:LYS:H	1.54	0.71
2:H:290:VAL:HA	2:H:490:LEU:HD13	1.73	0.71
2:I:503:THR:O	2:I:506:VAL:HG12	1.91	0.71
2:J:1960:MET:HB3	2:J:1964:ASP:HB2	1.72	0.71
2:K:789:TYR:HB3	2:K:790:PRO:HD3	1.73	0.71
2:K:1960:MET:HB3	2:K:1964:ASP:HB2	1.71	0.71
2:L:1694:PHE:CE2	2:L:1843:ALA:HA	2.25	0.71
1:A:962:ASN:HD22	2:G:1006:GLN:NE2	1.89	0.71
1:B:831:GLU:HG2	1:E:755:GLU:HG2	1.71	0.71
1:B:1230:SER:HA	1:B:1311:GLN:HE22	1.56	0.71
1:C:406:ALA:HA	1:C:439:ARG:HH11	1.55	0.71
1:C:965:TYR:CZ	1:C:1199:LEU:HD22	2.26	0.71
1:D:1323:ALA:HB1	1:D:1351:PHE:CE2	2.26	0.71
1:E:930:GLN:HA	1:E:933:ILE:HD12	1.72	0.71
1:E:973:TRP:CE2	1:E:1648:LYS:HB2	2.25	0.71
1:E:1381:MET:HE1	1:E:1403:THR:HB	1.72	0.71
2:I:221:TYR:HE1	2:I:320:LEU:HD13	1.54	0.71
2:L:1223:SER:HB2	2:L:1226:ALA:HB3	1.72	0.71
2:L:1884:CYS:HB3	2:L:1936:LEU:HD12	1.73	0.71
1:A:574:ILE:HG22	1:A:579:MET:HB2	1.71	0.71
1:B:999:LEU:HD21	1:B:1575:ASN:OD1	1.91	0.71
1:B:1005:TRP:NE1	1:B:1561:LEU:CD2	2.54	0.71
1:B:1142:LEU:HD12	1:B:1142:LEU:H	1.55	0.71
1:D:474:ILE:O	1:D:478:LYS:HG3	1.91	0.71
1:F:636:TYR:CZ	1:F:640:LEU:HD22	2.26	0.71
2:H:663:ILE:HD13	2:H:666:ASN:HB3	1.72	0.71
2:I:2008:THR:O	2:I:2011:ARG:HB2	1.91	0.71
2:K:174:GLY:H	2:K:517:GLY:HA3	1.55	0.71
2:K:845:ASN:HB3	2:K:851:THR:OG1	1.89	0.71
2:K:1780:ILE:HG23	2:K:1869:VAL:HG11	1.73	0.71
2:L:22:ARG:HG3	2:L:39:THR:HA	1.71	0.71
2:L:1658:MET:HE2	2:L:1826:LEU:HD23	1.73	0.71
1:A:1223:GLY:HA3	1:A:1276:PRO:HD2	1.73	0.70
1:B:406:ALA:HA	1:B:439:ARG:NH1	2.05	0.70
1:B:474:ILE:O	1:B:478:LYS:HG3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1381:MET:HE1	1:B:1403:THR:HB	1.73	0.70
2:I:771:CYS:HB3	2:I:774:ILE:HD12	1.73	0.70
2:K:250:PHE:HB2	2:K:251:PRO:HD3	1.73	0.70
2:L:172:ILE:HD11	2:L:501:TRP:CZ2	2.25	0.70
2:L:857:VAL:HG13	2:L:876:TRP:HE1	1.54	0.70
2:L:1125:ASP:O	2:L:1126:GLU:HB2	1.90	0.70
1:A:1168:TRP:NE1	1:A:1173:TYR:HE1	1.90	0.70
1:C:1476:ARG:NH1	1:F:1499:ARG:HD3	2.05	0.70
1:E:1230:SER:HA	1:E:1311:GLN:HE22	1.55	0.70
2:H:1694:PHE:CE2	2:H:1843:ALA:HA	2.27	0.70
2:I:174:GLY:H	2:I:517:GLY:HA3	1.56	0.70
2:K:854:VAL:HG21	2:K:1070:PRO:HA	1.74	0.70
1:B:579:MET:HE3	1:E:907:PHE:CZ	2.27	0.70
1:E:1565:PRO:HG3	1:E:1572:TRP:CZ3	2.26	0.70
2:G:467:ILE:HG23	2:G:468:PRO:HD2	1.72	0.70
2:H:1694:PHE:CD2	2:H:1843:ALA:HA	2.26	0.70
2:I:1115:TYR:OH	2:I:1173:HIS:HD2	1.74	0.70
2:J:814:SER:HB2	3:J:2101:FMN:O3P	1.90	0.70
2:L:1807:GLN:HB2	2:L:1808:PRO:HD3	1.73	0.70
1:B:339:GLN:HE21	1:F:339:GLN:HE21	1.38	0.70
1:B:612:ILE:HG23	1:B:628:TYR:CE2	2.26	0.70
1:F:973:TRP:CE2	1:F:1648:LYS:HB2	2.26	0.70
2:G:511:THR:CG2	2:G:512:HIS:CD2	2.72	0.70
2:H:22:ARG:HG3	2:H:39:THR:HA	1.74	0.70
2:H:1288:PHE:O	2:H:1292:VAL:HG23	1.91	0.70
2:I:193:TYR:CD2	2:I:263:ILE:HD13	2.26	0.70
2:I:1269:ALA:HB1	2:I:1271:TYR:CZ	2.25	0.70
2:L:1952:ASP:O	2:L:1956:LEU:HG	1.91	0.70
1:A:552:ILE:CD1	1:F:552:ILE:HG12	2.20	0.70
1:A:999:LEU:HD21	1:A:1575:ASN:OD1	1.91	0.70
1:B:962:ASN:HD22	2:H:1006:GLN:HE22	1.37	0.70
1:C:947:ASP:O	1:C:951:LEU:HG	1.92	0.70
1:E:427:ARG:HD2	1:E:490:VAL:HG12	1.73	0.70
2:G:845:ASN:HB3	2:G:851:THR:OG1	1.91	0.70
2:J:376:ARG:HB3	2:J:394:PRO:HG2	1.73	0.70
1:A:30:GLU:HB2	2:G:2045:ALA:CB	2.21	0.70
1:B:1005:TRP:HE1	1:B:1561:LEU:HD22	1.56	0.70
1:C:1547:ARG:HG2	1:C:1604:TYR:HD1	1.57	0.70
1:E:1214:HIS:HD2	1:E:1216:SER:OG	1.74	0.70
1:E:1610:ARG:HH11	1:E:1610:ARG:CG	1.91	0.70
2:G:1299:VAL:HG23	2:G:1301:PHE:CE2	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:43:PHE:CG	2:I:22:ARG:CZ	2.75	0.70
2:J:1318:ALA:HA	2:J:1391:VAL:HG21	1.72	0.70
2:K:663:ILE:HD13	2:K:666:ASN:HB3	1.73	0.70
2:K:783:GLY:HA3	2:K:1075:TYR:HB3	1.72	0.70
1:A:574:ILE:HG23	1:A:579:MET:CB	2.22	0.70
1:C:474:ILE:O	1:C:478:LYS:HG3	1.92	0.70
1:C:633:THR:HG22	1:C:637:LEU:HD12	1.73	0.70
1:C:1223:GLY:HA3	1:C:1276:PRO:HD2	1.73	0.70
2:H:752:HIS:HE1	2:H:847:TYR:HE2	1.39	0.70
2:H:771:CYS:HB3	2:H:774:ILE:HD12	1.73	0.70
2:I:1183:GLN:CB	2:I:1278:MET:HE3	2.21	0.70
2:I:1729:ASN:O	2:I:1757:ILE:HG23	1.91	0.70
2:I:1803:THR:HA	2:I:1806:THR:HB	1.73	0.70
2:I:1952:ASP:O	2:I:1956:LEU:HG	1.91	0.70
2:J:752:HIS:HE1	2:J:847:TYR:HE2	1.39	0.70
1:B:1079:ARG:HH11	1:B:1079:ARG:CG	2.03	0.70
1:B:1149:LEU:HB2	1:D:1149:LEU:HB2	1.74	0.70
1:E:532:ILE:HG21	1:E:907:PHE:HB2	1.73	0.70
2:I:1436:ARG:HH22	2:I:1602:LEU:HD21	1.57	0.70
2:I:1554:PRO:HA	2:I:1659:ILE:HG12	1.74	0.70
1:B:557:ARG:HD2	1:E:557:ARG:O	1.92	0.70
1:B:1431:GLN:HG2	1:D:1431:GLN:OE1	1.91	0.70
1:D:964:LYS:O	1:D:966:PRO:HD3	1.92	0.70
1:E:741:ASP:OD1	1:E:793:ARG:HD3	1.92	0.70
2:G:685:VAL:HG23	2:G:1186:ARG:HH12	1.55	0.70
2:H:600:VAL:HG13	2:H:601:PRO:HD2	1.74	0.70
2:I:584:SER:HB2	2:I:1114:GLU:HA	1.74	0.70
2:I:1335:PHE:HE1	2:I:1629:ILE:CD1	2.04	0.70
2:J:725:GLN:HG2	2:J:764:MET:HE1	1.73	0.70
2:K:57:PRO:CG	2:K:68:GLU:HG3	2.21	0.70
2:L:1269:ALA:HB1	2:L:1271:TYR:CZ	2.27	0.70
2:G:783:GLY:HA3	2:G:1075:TYR:HB3	1.74	0.70
2:H:272:PRO:O	2:H:276:LEU:HB2	1.91	0.70
2:H:582:LYS:HG3	2:H:1110:VAL:HG11	1.74	0.70
2:I:942:MET:HE2	2:I:955:LEU:HD13	1.74	0.70
2:I:1884:CYS:HB3	2:I:1936:LEU:HD12	1.73	0.70
2:J:1183:GLN:CB	2:J:1278:MET:HE3	2.21	0.70
2:K:172:ILE:HD11	2:K:501:TRP:CZ2	2.27	0.70
2:K:197:VAL:HG21	2:K:263:ILE:HD11	1.73	0.70
2:L:2019:SER:HA	2:L:2022:LEU:HD12	1.74	0.70
1:B:1547:ARG:HG2	1:B:1604:TYR:HD1	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1223:SER:HB2	2:H:1226:ALA:HB3	1.74	0.69
2:J:608:MET:H	2:J:612:THR:HB	1.55	0.69
2:K:129:ILE:HG23	2:K:132:LYS:H	1.56	0.69
2:K:752:HIS:NE2	2:K:856:THR:HG21	2.07	0.69
2:L:290:VAL:HA	2:L:490:LEU:HD13	1.73	0.69
1:A:47:ILE:HB	2:G:1694:PHE:CD1	2.27	0.69
1:A:947:ASP:O	1:A:951:LEU:HG	1.91	0.69
1:B:777:LEU:O	1:B:781:ILE:HG13	1.91	0.69
1:D:741:ASP:OD1	1:D:793:ARG:HD3	1.92	0.69
1:E:954:ARG:HA	2:K:981:GLN:OE1	1.92	0.69
1:E:1443:LEU:O	1:E:1447:VAL:HG23	1.92	0.69
2:G:725:GLN:HG2	2:G:764:MET:HE1	1.74	0.69
2:G:964:ARG:O	2:G:967:GLU:HB2	1.92	0.69
2:G:967:GLU:HG2	2:G:1000:TYR:CE1	2.27	0.69
2:G:1554:PRO:HA	2:G:1659:ILE:HG12	1.72	0.69
2:K:594:MET:HB3	2:K:808:ASP:O	1.92	0.69
2:K:1328:VAL:HA	2:K:1611:TYR:HE1	1.56	0.69
2:K:2008:THR:O	2:K:2011:ARG:HB2	1.92	0.69
2:L:1092:ASN:HA	2:L:1095:ILE:HG12	1.73	0.69
1:C:682:VAL:HG11	1:C:695:TYR:HE2	1.56	0.69
1:E:67:ALA:HB1	2:J:371:HIS:CE1	2.26	0.69
2:H:845:ASN:HB3	2:H:851:THR:OG1	1.92	0.69
2:I:789:TYR:HB3	2:I:790:PRO:HD3	1.73	0.69
2:J:129:ILE:HG23	2:J:132:LYS:H	1.57	0.69
2:J:1410:GLY:HA3	2:J:1436:ARG:HA	1.72	0.69
2:J:1554:PRO:HA	2:J:1659:ILE:HG12	1.73	0.69
2:K:1156:ASP:HB3	2:K:1158:ASP:H	1.57	0.69
1:A:36:LEU:HD21	1:A:44:ILE:HD11	1.73	0.69
1:C:1032:MET:CE	1:C:1165:PRO:HB3	2.22	0.69
1:D:1032:MET:HE2	1:D:1165:PRO:HB3	1.74	0.69
2:H:1093:ASP:O	2:H:1097:PHE:HD1	1.75	0.69
2:I:1156:ASP:HB3	2:I:1158:ASP:H	1.57	0.69
2:I:1851:MET:HE1	2:I:1859:VAL:HG21	1.74	0.69
2:J:845:ASN:HB3	2:J:851:THR:OG1	1.92	0.69
2:J:967:GLU:HG2	2:J:1000:TYR:CE1	2.28	0.69
2:L:1299:VAL:HG23	2:L:1301:PHE:CE2	2.28	0.69
2:L:1305:LEU:HD23	2:L:1366:ILE:HD11	1.74	0.69
1:A:1663:LYS:HG2	2:G:1007:LEU:HD11	1.74	0.69
1:B:1504:ARG:NH1	1:B:1504:ARG:CG	2.50	0.69
1:D:29:ILE:HD11	2:J:1922:VAL:C	2.17	0.69
1:D:1209:PHE:CE2	1:D:1301:VAL:HG21	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1443:LEU:CD1	1:D:1470:ARG:HB3	2.22	0.69
2:H:698:SER:HB3	2:H:701:VAL:CG2	2.22	0.69
2:H:1299:VAL:HG23	2:H:1301:PHE:HE2	1.58	0.69
2:I:1478:GLN:HG3	2:I:1479:HIS:H	1.57	0.69
2:K:766:SER:O	2:K:770:LYS:HG3	1.92	0.69
2:K:771:CYS:HB3	2:K:774:ILE:HD12	1.73	0.69
2:L:590:VAL:HG23	2:L:1091:HIS:CD2	2.27	0.69
1:C:741:ASP:OD1	1:C:793:ARG:HD3	1.93	0.69
1:C:833:TRP:HH2	1:C:839:ILE:HD11	1.58	0.69
1:C:973:TRP:NE1	1:C:1648:LYS:HB2	2.07	0.69
1:D:636:TYR:CZ	1:D:640:LEU:HD22	2.27	0.69
2:G:193:TYR:HD2	2:G:263:ILE:HD13	1.58	0.69
2:H:43:PHE:CB	2:I:22:ARG:CZ	2.71	0.69
2:H:511:THR:CG2	2:H:512:HIS:HD2	2.03	0.69
2:H:1851:MET:HE3	2:H:2025:ILE:HG12	1.73	0.69
2:H:2015:LYS:HB2	2:H:2016:PRO:HD3	1.74	0.69
2:J:789:TYR:HB3	2:J:790:PRO:HD3	1.74	0.69
2:J:1881:TYR:CB	2:J:2004:PRO:HG3	2.22	0.69
2:K:595:SER:HB3	2:K:602:PRO:CG	2.19	0.69
1:B:570:TYR:CE1	1:B:574:ILE:HD11	2.27	0.69
1:C:1702:ARG:HG3	1:C:1702:ARG:NH1	2.03	0.69
1:F:633:THR:HG22	1:F:637:LEU:HD12	1.74	0.69
2:J:384:ASN:HB3	2:J:527:LEU:HD11	1.74	0.69
2:K:868:LEU:O	2:K:870:THR:HG23	1.92	0.69
2:L:1506:SER:HA	2:L:1533:GLY:HA2	1.74	0.69
1:A:1697:LEU:O	1:A:1699:PRO:HD3	1.92	0.69
1:B:552:ILE:HG12	1:E:552:ILE:CD1	2.22	0.69
1:C:30:GLU:HB2	2:I:2045:ALA:HB1	1.75	0.69
1:F:406:ALA:HA	1:F:439:ARG:HH11	1.58	0.69
1:F:751:GLU:OE1	1:F:770:MET:HE1	1.92	0.69
2:H:172:ILE:HD11	2:H:501:TRP:CZ2	2.27	0.69
2:I:44:GLN:O	2:I:48:LEU:HG	1.92	0.69
2:I:384:ASN:CB	2:I:527:LEU:HD11	2.22	0.69
2:I:600:VAL:HG13	2:I:601:PRO:HD2	1.75	0.69
2:I:938:MET:HE2	2:I:959:THR:HG22	1.73	0.69
2:K:529:ASN:HD22	2:K:552:VAL:HG22	1.57	0.69
2:K:865:ILE:HG21	2:K:867:LYS:HE3	1.73	0.69
2:K:955:LEU:HD21	2:K:1026:LYS:HB3	1.74	0.69
2:L:752:HIS:HE1	2:L:847:TYR:CE2	2.11	0.69
2:L:2008:THR:O	2:L:2011:ARG:HB2	1.91	0.69
2:L:2032:PRO:O	2:L:2036:ILE:HG13	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:ARG:HG3	1:A:557:ARG:NH1	2.01	0.69
1:A:930:GLN:HA	1:A:933:ILE:HD12	1.74	0.69
1:A:1089:TYR:CE1	1:A:1312:GLU:HG3	2.28	0.69
1:B:669:VAL:O	1:B:673:LEU:HD12	1.93	0.69
1:C:983:GLN:HB3	1:C:1418:ILE:HD13	1.74	0.69
1:E:633:THR:HG22	1:E:637:LEU:HD12	1.75	0.69
2:G:752:HIS:HE1	2:G:847:TYR:HE2	1.40	0.69
2:G:1694:PHE:CD2	2:G:1843:ALA:HA	2.27	0.69
2:I:1472:TRP:HB3	2:I:1530:TYR:HB2	1.75	0.69
2:K:22:ARG:HG3	2:K:39:THR:HA	1.75	0.69
2:L:193:TYR:CD2	2:L:263:ILE:HD13	2.27	0.69
2:L:376:ARG:HB3	2:L:394:PRO:HG2	1.75	0.69
2:L:503:THR:O	2:L:506:VAL:HG12	1.93	0.69
1:A:965:TYR:CZ	1:A:1199:LEU:HD22	2.28	0.69
1:B:1209:PHE:CE2	1:B:1301:VAL:HG21	2.28	0.69
1:F:427:ARG:NH1	1:F:492:ILE:CG1	2.56	0.69
2:G:814:SER:HB2	3:G:2101:FMN:O3P	1.93	0.69
2:J:503:THR:O	2:J:506:VAL:HG12	1.93	0.69
2:J:1179:GLU:HA	2:J:1190:ASN:HB2	1.75	0.69
2:K:752:HIS:HE1	2:K:847:TYR:HE2	1.39	0.69
2:L:663:ILE:HD13	2:L:666:ASN:HB3	1.74	0.69
1:A:1381:MET:HE1	1:A:1403:THR:HB	1.75	0.68
1:C:930:GLN:HA	1:C:933:ILE:HD12	1.75	0.68
1:E:1100:VAL:HG21	1:E:1150:ILE:HD12	1.75	0.68
1:F:40:ARG:NH2	1:F:74:VAL:HG22	2.07	0.68
2:G:174:GLY:H	2:G:517:GLY:HA3	1.57	0.68
2:H:867:LYS:HD3	2:H:1065:CYS:SG	2.33	0.68
2:H:1554:PRO:HA	2:H:1659:ILE:HG12	1.74	0.68
2:J:1479:HIS:CD2	2:J:1481:ILE:HG12	2.27	0.68
2:K:193:TYR:CD2	2:K:263:ILE:HD13	2.28	0.68
1:A:407:ARG:NH1	1:A:1606:VAL:HG23	2.08	0.68
1:A:1323:ALA:HB1	1:A:1351:PHE:HE2	1.58	0.68
1:A:1510:TRP:HZ3	1:A:1642:LEU:HA	1.58	0.68
1:C:1381:MET:HE1	1:C:1403:THR:HB	1.74	0.68
1:C:1705:GLN:NE2	1:C:1709:GLY:HA2	2.07	0.68
2:J:1478:GLN:HG3	2:J:1479:HIS:H	1.58	0.68
1:A:1032:MET:CE	1:A:1165:PRO:HB3	2.22	0.68
1:B:636:TYR:CZ	1:B:640:LEU:HD22	2.29	0.68
1:C:911:LEU:O	1:C:915:MET:HG3	1.94	0.68
1:D:973:TRP:CE2	1:D:1648:LYS:HB2	2.27	0.68
1:D:1514:ILE:O	1:D:1547:ARG:NH1	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:557:ARG:CG	1:E:557:ARG:NH1	2.53	0.68
1:F:36:LEU:HD21	1:F:44:ILE:HD11	1.74	0.68
2:H:503:THR:O	2:H:506:VAL:HG12	1.92	0.68
2:H:616:ASP:OD2	2:H:823:HIS:HE1	1.75	0.68
2:I:410:ALA:HB1	2:I:414:LEU:HD12	1.75	0.68
2:J:250:PHE:HB2	2:J:251:PRO:HD3	1.75	0.68
2:J:1803:THR:HA	2:J:1806:THR:HB	1.75	0.68
2:K:190:TYR:CD1	2:K:201:ILE:HD13	2.26	0.68
2:K:775:VAL:O	2:K:777:VAL:HG23	1.94	0.68
1:C:1363:MET:HE1	1:C:1373:VAL:CG2	2.23	0.68
1:D:1381:MET:HE1	1:D:1403:THR:HB	1.75	0.68
2:H:221:TYR:HE1	2:H:320:LEU:HD13	1.57	0.68
2:H:955:LEU:HD21	2:H:1026:LYS:HB3	1.75	0.68
2:K:1952:ASP:O	2:K:1956:LEU:HG	1.93	0.68
1:A:474:ILE:O	1:A:478:LYS:HG3	1.93	0.68
1:B:1323:ALA:HB1	1:B:1351:PHE:CE2	2.28	0.68
1:B:1476:ARG:NH1	1:D:1499:ARG:HD3	2.06	0.68
1:C:673:LEU:O	1:C:678:ALA:HB3	1.94	0.68
1:D:527:ALA:HB2	1:D:637:LEU:CD2	2.21	0.68
1:E:406:ALA:HA	1:E:439:ARG:NH1	2.07	0.68
1:E:1211:LYS:O	1:E:1702:ARG:HD3	1.94	0.68
1:E:1330:GLU:HG2	1:E:1333:ARG:HH11	1.58	0.68
1:F:1160:VAL:HB	1:F:1352:MET:HE1	1.75	0.68
2:G:327:PRO:CD	2:H:1338:ARG:HH21	2.06	0.68
2:I:1807:GLN:HB2	2:I:1808:PRO:HD3	1.76	0.68
1:A:372:LEU:HD11	1:F:371:GLN:HG2	1.75	0.68
1:A:973:TRP:NE1	1:A:1648:LYS:HB2	2.09	0.68
1:D:1230:SER:HA	1:D:1311:GLN:HE22	1.58	0.68
1:E:1330:GLU:HG2	1:E:1333:ARG:NH1	2.08	0.68
2:G:22:ARG:HG3	2:G:39:THR:HA	1.75	0.68
2:G:590:VAL:HG23	2:G:1091:HIS:CD2	2.29	0.68
2:G:854:VAL:HG21	2:G:1070:PRO:HA	1.75	0.68
2:H:1478:GLN:HG3	2:H:1479:HIS:H	1.56	0.68
2:I:272:PRO:O	2:I:276:LEU:HB2	1.93	0.68
2:J:1506:SER:HA	2:J:1533:GLY:HA2	1.74	0.68
2:K:788:THR:HG22	2:K:1094:HIS:HE1	1.59	0.68
2:K:964:ARG:O	2:K:967:GLU:HB2	1.94	0.68
2:K:1506:SER:HA	2:K:1533:GLY:HA2	1.76	0.68
2:L:1851:MET:HE1	2:L:1859:VAL:HG21	1.76	0.68
1:A:1547:ARG:HG2	1:A:1604:TYR:HD1	1.58	0.68
1:A:1574:LEU:HD12	1:A:1622:VAL:HG11	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:930:GLN:HA	1:B:933:ILE:HD12	1.75	0.68
1:B:1367:LEU:HD22	1:B:1371:MET:HG3	1.76	0.68
1:C:960:ARG:NH1	2:I:968:GLU:OE1	2.27	0.68
1:D:907:PHE:O	1:D:909:PRO:HD3	1.93	0.68
1:E:1493:PHE:CE2	1:E:1509:THR:HG22	2.28	0.68
1:F:534:GLN:OE1	1:F:534:GLN:HA	1.93	0.68
2:G:172:ILE:HD11	2:G:501:TRP:HZ2	1.58	0.68
2:G:468:PRO:CD	2:G:479:ARG:HH21	2.06	0.68
2:G:613:VAL:HG12	2:G:614:PRO:HD3	1.75	0.68
2:G:789:TYR:HB3	2:G:790:PRO:HD3	1.76	0.68
2:H:1499:LYS:HB3	2:H:1505:SER:HB3	1.74	0.68
2:I:172:ILE:HD11	2:I:501:TRP:CZ2	2.28	0.68
2:I:1551:ILE:HG12	2:I:1552:GLU:H	1.58	0.68
2:J:584:SER:HB2	2:J:1114:GLU:HA	1.75	0.68
2:J:1871:VAL:HG21	2:J:2004:PRO:HD3	1.75	0.68
2:K:293:ALA:HA	2:K:469:VAL:HG21	1.75	0.68
2:K:613:VAL:HG12	2:K:614:PRO:HD3	1.76	0.68
2:K:1694:PHE:CD2	2:K:1843:ALA:HA	2.28	0.68
2:K:1868:GLN:HG2	2:K:1873:ARG:HH22	1.57	0.68
2:L:845:ASN:HB3	2:L:851:THR:OG1	1.93	0.68
2:L:1593:SER:OG	2:L:1596:PHE:HB2	1.94	0.68
1:C:1574:LEU:HD12	1:C:1622:VAL:HG11	1.74	0.68
1:D:751:GLU:OE1	1:D:770:MET:HE1	1.94	0.68
1:D:1702:ARG:HG3	1:D:1702:ARG:NH1	2.03	0.68
1:F:1381:MET:HE1	1:F:1403:THR:HB	1.76	0.68
2:G:272:PRO:O	2:G:276:LEU:HB2	1.93	0.68
2:I:1353:GLY:HA2	2:I:1397:THR:HG21	1.75	0.68
2:K:875:PHE:CD1	2:K:905:LYS:HD3	2.29	0.68
2:L:1179:GLU:HA	2:L:1190:ASN:HB2	1.76	0.68
1:A:30:GLU:HB2	2:G:2045:ALA:HB1	1.76	0.68
1:A:421:ARG:HH22	1:A:1613:LYS:HB3	1.58	0.68
1:E:532:ILE:CG2	1:E:907:PHE:CB	2.71	0.68
2:H:1884:CYS:HB3	2:H:1936:LEU:HD12	1.76	0.68
2:H:2008:THR:O	2:H:2011:ARG:HB2	1.94	0.68
2:I:501:TRP:NE1	2:I:528:THR:HG22	2.05	0.68
2:K:186:LEU:CD2	2:K:256:VAL:HG22	2.24	0.68
1:A:548:VAL:HG23	1:F:569:LEU:HD13	1.74	0.68
1:B:973:TRP:CE2	1:B:1648:LYS:HB2	2.29	0.68
1:D:1213:VAL:HG22	1:D:1300:ARG:NH2	2.09	0.68
1:E:999:LEU:HD21	1:E:1575:ASN:OD1	1.91	0.68
1:F:1213:VAL:HG22	1:F:1300:ARG:NH2	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1007:LEU:HD12	2:G:1007:LEU:H	1.58	0.68
2:G:1338:ARG:NH2	2:I:327:PRO:HD2	2.08	0.68
2:G:1952:ASP:O	2:G:1956:LEU:HG	1.94	0.68
2:H:174:GLY:H	2:H:517:GLY:HA3	1.58	0.68
2:H:1807:GLN:HB2	2:H:1808:PRO:HD3	1.75	0.68
2:J:580:LEU:HD21	2:J:1095:ILE:HA	1.76	0.68
2:J:1472:TRP:HB3	2:J:1530:TYR:HB2	1.76	0.68
2:J:2019:SER:HA	2:J:2022:LEU:HD12	1.76	0.68
2:K:1868:GLN:HG2	2:K:1873:ARG:NH2	2.09	0.68
2:L:129:ILE:HG23	2:L:132:LYS:H	1.59	0.68
2:L:616:ASP:OD2	2:L:823:HIS:HE1	1.77	0.68
2:L:1200:ARG:H	2:L:1200:ARG:HD3	1.59	0.68
1:A:751:GLU:OE1	1:A:770:MET:HE1	1.93	0.67
1:C:372:LEU:HD11	1:D:371:GLN:HG2	1.76	0.67
1:E:474:ILE:O	1:E:478:LYS:HG3	1.94	0.67
1:F:983:GLN:HB3	1:F:1418:ILE:HD13	1.76	0.67
2:G:1478:GLN:HG3	2:G:1479:HIS:H	1.58	0.67
2:G:1884:CYS:HB3	2:G:1936:LEU:HD12	1.75	0.67
2:H:43:PHE:CB	2:I:22:ARG:NE	2.57	0.67
2:H:197:VAL:HG21	2:H:263:ILE:HD11	1.77	0.67
2:H:915:PHE:HB2	2:H:1030:PHE:CD1	2.29	0.67
2:J:590:VAL:HG23	2:J:1091:HIS:CD2	2.29	0.67
2:K:584:SER:HB2	2:K:1114:GLU:HA	1.74	0.67
2:K:590:VAL:HG23	2:K:1091:HIS:CD2	2.29	0.67
2:K:1442:TYR:O	2:K:1445:THR:HG22	1.93	0.67
2:L:1289:TYR:CB	2:L:1370:LEU:HD23	2.24	0.67
1:A:1224:SER:HB2	1:A:1307:PHE:O	1.94	0.67
1:B:828:TRP:HE1	1:B:838:THR:HA	1.60	0.67
1:D:1702:ARG:CG	1:D:1702:ARG:NH1	2.48	0.67
1:F:2:ARG:HD2	1:F:5:VAL:HG21	1.76	0.67
2:H:250:PHE:HB2	2:H:251:PRO:HD3	1.75	0.67
2:I:1897:GLU:HG2	2:I:1901:GLN:HE21	1.59	0.67
2:K:1223:SER:HB2	2:K:1226:ALA:HB3	1.76	0.67
1:B:1186:VAL:HG23	1:B:1309:ASP:HB2	1.75	0.67
1:C:999:LEU:HD21	1:C:1575:ASN:OD1	1.94	0.67
1:C:1448:ALA:HA	1:C:1451:LYS:HD2	1.77	0.67
1:D:36:LEU:HD21	1:D:44:ILE:HD11	1.76	0.67
2:G:250:PHE:HB2	2:G:251:PRO:HD3	1.76	0.67
2:G:915:PHE:HB2	2:G:1030:PHE:CD1	2.29	0.67
2:G:1499:LYS:HB3	2:G:1505:SER:HB3	1.74	0.67
2:H:1551:ILE:HG12	2:H:1552:GLU:H	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:511:THR:CG2	2:J:512:HIS:CD2	2.76	0.67
2:J:938:MET:HE2	2:J:959:THR:HG22	1.74	0.67
2:J:1868:GLN:HG2	2:J:1873:ARG:NH2	2.09	0.67
2:K:511:THR:CG2	2:K:512:HIS:CD2	2.76	0.67
2:K:580:LEU:HD21	2:K:1095:ILE:HA	1.75	0.67
2:K:1351:VAL:HG23	2:K:1584:SER:HA	1.75	0.67
2:L:1867:MET:O	2:L:2003:VAL:HG21	1.94	0.67
1:A:983:GLN:O	1:A:1418:ILE:HD11	1.95	0.67
1:B:1514:ILE:O	1:B:1547:ARG:NH1	2.27	0.67
1:B:1574:LEU:HD12	1:B:1622:VAL:HG11	1.76	0.67
1:D:406:ALA:HA	1:D:439:ARG:NH1	2.10	0.67
1:E:967:PHE:CG	1:E:1374:PRO:HG3	2.29	0.67
2:G:2032:PRO:O	2:G:2036:ILE:HG13	1.93	0.67
2:J:250:PHE:HA	2:J:287:GLN:NE2	2.09	0.67
2:J:1868:GLN:HG2	2:J:1873:ARG:HH22	1.60	0.67
2:K:1554:PRO:HA	2:K:1659:ILE:HG12	1.77	0.67
2:K:1694:PHE:CE2	2:K:1843:ALA:HA	2.29	0.67
2:L:955:LEU:HD21	2:L:1026:LYS:HB3	1.76	0.67
1:A:408:GLN:HE22	1:A:1609:SER:H	1.41	0.67
1:A:533:SER:O	1:A:611:THR:HA	1.95	0.67
1:C:579:MET:HE2	1:D:612:ILE:HD12	1.77	0.67
1:C:1389:ILE:CG1	1:F:1268:SER:HB3	2.08	0.67
2:H:81:ALA:HB2	2:H:139:ALA:HA	1.76	0.67
2:I:876:TRP:CH2	2:I:1043:LYS:HB2	2.28	0.67
2:I:1888:PRO:HB3	2:I:1895:PHE:HD1	1.60	0.67
2:J:600:VAL:HG13	2:J:601:PRO:HD2	1.76	0.67
2:K:44:GLN:O	2:K:48:LEU:HG	1.94	0.67
2:K:1179:GLU:HA	2:K:1190:ASN:HB2	1.77	0.67
2:K:2032:PRO:O	2:K:2036:ILE:HG13	1.94	0.67
2:L:1353:GLY:HA2	2:L:1397:THR:HG21	1.76	0.67
2:L:1764:MET:HB3	2:L:1780:ILE:HD12	1.75	0.67
1:A:1443:LEU:CD1	1:A:1470:ARG:HB3	2.25	0.67
1:D:31:THR:HG23	2:J:2040:ILE:CG2	2.25	0.67
1:D:47:ILE:HB	2:J:1694:PHE:CD1	2.29	0.67
1:D:557:ARG:HG3	1:D:557:ARG:NH1	1.99	0.67
1:E:1209:PHE:CE2	1:E:1301:VAL:HG21	2.28	0.67
1:F:1443:LEU:CD1	1:F:1470:ARG:HB3	2.25	0.67
2:H:857:VAL:HG13	2:H:876:TRP:HE1	1.58	0.67
2:I:250:PHE:HB2	2:I:251:PRO:HD3	1.75	0.67
2:J:1351:VAL:HG23	2:J:1584:SER:HA	1.76	0.67
2:J:1658:MET:HE2	2:J:1826:LEU:HD23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1061:VAL:CG1	2:K:1066:ILE:HD11	2.25	0.67
2:L:44:GLN:O	2:L:48:LEU:HG	1.94	0.67
2:L:272:PRO:HD3	2:L:301:TRP:CE2	2.30	0.67
1:A:673:LEU:O	1:A:678:ALA:HB3	1.94	0.67
1:B:18:LEU:HD21	2:H:1844:LEU:HD11	1.77	0.67
1:B:487:TYR:CE2	1:B:881:LEU:HD13	2.29	0.67
1:B:1431:GLN:OE1	1:D:1431:GLN:HG2	1.95	0.67
1:D:999:LEU:HD21	1:D:1575:ASN:OD1	1.94	0.67
1:E:968:PRO:HD2	1:E:1374:PRO:HB3	1.76	0.67
1:E:1363:MET:HE1	1:E:1373:VAL:CG2	2.25	0.67
1:E:1443:LEU:CD1	1:E:1470:ARG:HB3	2.25	0.67
1:F:81:TYR:CE1	2:L:1821:MET:HE3	2.29	0.67
1:F:911:LEU:O	1:F:915:MET:HG3	1.95	0.67
1:F:1547:ARG:HG2	1:F:1604:TYR:HD1	1.59	0.67
2:J:1324:PHE:N	2:J:1583:VAL:HG11	2.10	0.67
2:K:1888:PRO:HB3	2:K:1895:PHE:HD1	1.60	0.67
2:L:1888:PRO:HB3	2:L:1895:PHE:HD1	1.58	0.67
1:A:1703:VAL:CG1	1:A:1711:LEU:HB3	2.22	0.67
2:G:788:THR:HG22	2:G:1094:HIS:HE1	1.60	0.67
2:G:1506:SER:HA	2:G:1533:GLY:HA2	1.77	0.67
2:H:272:PRO:HD3	2:H:301:TRP:CE2	2.30	0.67
2:I:845:ASN:HB3	2:I:851:THR:OG1	1.93	0.67
2:K:855:ILE:HB	2:K:869:ALA:HB2	1.75	0.67
2:L:250:PHE:HB2	2:L:251:PRO:HD3	1.77	0.67
1:B:30:GLU:HB2	2:H:2045:ALA:HB1	1.76	0.67
1:B:1086:PHE:CE2	1:B:1310:PHE:HD2	2.13	0.67
1:B:1211:LYS:O	1:B:1702:ARG:HD3	1.95	0.67
1:C:1089:TYR:CE1	1:C:1312:GLU:HG3	2.30	0.67
1:D:2:ARG:HD2	1:D:5:VAL:HG21	1.76	0.67
2:G:955:LEU:HD21	2:G:1026:LYS:HB3	1.76	0.67
2:H:21:LEU:HD22	2:H:36:LEU:HD22	1.77	0.67
2:H:44:GLN:O	2:H:48:LEU:HG	1.94	0.67
2:J:595:SER:HB3	2:J:602:PRO:CG	2.22	0.67
2:J:1353:GLY:HA2	2:J:1397:THR:HG21	1.76	0.67
2:K:1436:ARG:NH2	2:K:1602:LEU:HD21	2.09	0.67
2:L:1335:PHE:HE1	2:L:1629:ILE:HD13	1.58	0.67
2:L:1472:TRP:HB3	2:L:1530:TYR:HB2	1.75	0.67
2:L:1602:LEU:HD13	2:L:1606:ILE:HD12	1.77	0.67
1:A:1078:ILE:HD13	1:A:1352:MET:HG2	1.76	0.67
1:B:407:ARG:NH1	1:B:1606:VAL:HG23	2.10	0.67
1:D:1100:VAL:HG21	1:D:1150:ILE:HD12	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:129:ILE:HG23	2:G:132:LYS:H	1.59	0.67
2:G:293:ALA:HA	2:G:469:VAL:HG21	1.77	0.67
2:H:1156:ASP:HB3	2:H:1158:ASP:H	1.60	0.67
2:I:752:HIS:HE1	2:I:847:TYR:HE2	1.41	0.67
2:J:1289:TYR:CB	2:J:1370:LEU:HD23	2.25	0.67
2:K:486:ILE:HG22	2:K:490:LEU:HG	1.76	0.67
1:B:81:TYR:CE1	2:H:1821:MET:HE3	2.30	0.66
1:B:579:MET:HE2	1:E:612:ILE:HD12	1.77	0.66
1:B:633:THR:HG22	1:B:637:LEU:HD12	1.75	0.66
1:B:1462:ASP:HB2	1:B:1465:ALA:HB3	1.75	0.66
1:D:633:THR:HG22	1:D:637:LEU:HD12	1.76	0.66
1:E:967:PHE:CE2	1:E:1374:PRO:HG3	2.29	0.66
1:E:1032:MET:CE	1:E:1165:PRO:HB3	2.25	0.66
1:F:1330:GLU:HG2	1:F:1333:ARG:NH1	2.09	0.66
2:I:1301:PHE:HB3	2:I:1364:ARG:NH1	2.10	0.66
2:I:2032:PRO:O	2:I:2036:ILE:HG13	1.95	0.66
2:J:1288:PHE:O	2:J:1292:VAL:HG23	1.94	0.66
2:K:1884:CYS:HB3	2:K:1936:LEU:HD12	1.75	0.66
2:K:2015:LYS:HB2	2:K:2016:PRO:HD3	1.75	0.66
2:L:1094:HIS:O	2:L:1098:LEU:HB2	1.95	0.66
1:A:833:TRP:HH2	1:A:839:ILE:HD11	1.59	0.66
1:A:1268:SER:HB3	1:E:1389:ILE:CG1	2.11	0.66
1:C:682:VAL:HG11	1:C:695:TYR:CE2	2.30	0.66
2:G:1692:TYR:HD1	2:G:1847:LEU:HD21	1.60	0.66
2:G:1807:GLN:HB2	2:G:1808:PRO:HD3	1.76	0.66
2:H:1097:PHE:HD2	2:H:1100:ARG:HH12	1.43	0.66
2:J:783:GLY:HA3	2:J:1075:TYR:HB3	1.75	0.66
2:K:327:PRO:HD2	2:L:1338:ARG:NH2	2.08	0.66
1:A:741:ASP:OD1	1:A:793:ARG:HD3	1.95	0.66
1:B:1330:GLU:HG2	1:B:1333:ARG:NH1	2.11	0.66
1:C:406:ALA:HA	1:C:439:ARG:NH1	2.09	0.66
1:C:1211:LYS:O	1:C:1702:ARG:HD3	1.94	0.66
1:D:422:LEU:HB3	1:D:429:ILE:HD11	1.77	0.66
1:E:1547:ARG:HG2	1:E:1604:TYR:HD1	1.60	0.66
1:F:30:GLU:HB2	2:L:2045:ALA:CB	2.26	0.66
1:F:434:ILE:HD11	1:F:490:VAL:HG21	1.76	0.66
2:G:193:TYR:CD2	2:G:263:ILE:HD13	2.29	0.66
2:G:1179:GLU:HA	2:G:1190:ASN:HB2	1.77	0.66
2:H:590:VAL:HG23	2:H:1091:HIS:CD2	2.29	0.66
2:H:930:THR:CG2	2:H:933:GLU:H	2.09	0.66
2:I:471:ASP:HB3	2:I:474:THR:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1223:SER:HB2	2:I:1226:ALA:HB3	1.78	0.66
2:J:22:ARG:HG3	2:J:39:THR:HA	1.76	0.66
2:J:1299:VAL:HG23	2:J:1301:PHE:HE2	1.58	0.66
2:K:440:HIS:HD2	2:K:497:ASP:O	1.78	0.66
2:K:467:ILE:HG23	2:K:468:PRO:HD2	1.76	0.66
2:L:1305:LEU:HD11	2:L:1365:LYS:HD2	1.77	0.66
2:L:1848:ALA:HA	2:L:2034:LYS:HD3	1.78	0.66
1:C:905:LEU:HD23	1:C:908:ILE:HD12	1.76	0.66
1:D:911:LEU:O	1:D:915:MET:HG3	1.96	0.66
1:D:1510:TRP:HZ3	1:D:1642:LEU:HA	1.60	0.66
1:E:1510:TRP:CZ3	1:E:1642:LEU:HA	2.31	0.66
1:E:1638:HIS:ND1	1:E:1639:PRO:HD2	2.11	0.66
2:G:1918:VAL:HG13	2:G:2006:HIS:CB	2.22	0.66
2:H:1851:MET:HE1	2:H:1859:VAL:HG21	1.77	0.66
2:J:1053:ILE:HD12	2:J:1061:VAL:HG22	1.76	0.66
2:J:1602:LEU:HD13	2:J:1606:ILE:HD12	1.78	0.66
1:A:532:ILE:HG22	1:A:907:PHE:CB	2.26	0.66
1:A:1363:MET:HE1	1:A:1373:VAL:CG2	2.23	0.66
1:B:562:SER:CB	1:E:551:LEU:HD21	2.25	0.66
1:C:487:TYR:CE2	1:C:881:LEU:HD13	2.30	0.66
1:C:534:GLN:HG3	1:C:610:GLU:O	1.95	0.66
1:E:911:LEU:O	1:E:915:MET:HG3	1.94	0.66
2:J:964:ARG:O	2:J:967:GLU:HB2	1.96	0.66
2:K:794:GLY:O	2:K:804:PRO:HA	1.96	0.66
2:K:1472:TRP:HB3	2:K:1530:TYR:HB2	1.78	0.66
2:K:1867:MET:O	2:K:2003:VAL:HG21	1.95	0.66
2:L:461:PRO:HD2	2:L:464:SER:OG	1.95	0.66
2:L:725:GLN:HG2	2:L:764:MET:HE1	1.76	0.66
1:B:1443:LEU:CD1	1:B:1470:ARG:HB3	2.25	0.66
1:C:1510:TRP:HZ3	1:C:1642:LEU:HA	1.60	0.66
1:D:833:TRP:HH2	1:D:839:ILE:HD11	1.61	0.66
1:D:1705:GLN:HE21	1:D:1709:GLY:HA2	1.61	0.66
1:E:673:LEU:O	1:E:678:ALA:HB3	1.94	0.66
2:G:2019:SER:HA	2:G:2022:LEU:HD12	1.78	0.66
2:H:783:GLY:HA3	2:H:1075:TYR:HB3	1.77	0.66
2:I:2015:LYS:HB2	2:I:2016:PRO:HD3	1.78	0.66
2:L:582:LYS:HG3	2:L:1110:VAL:HG11	1.76	0.66
2:L:1289:TYR:HB2	2:L:1370:LEU:HD23	1.78	0.66
2:L:1918:VAL:HG13	2:L:2006:HIS:HB2	1.75	0.66
1:A:964:LYS:O	1:A:966:PRO:HD3	1.96	0.66
1:A:970:LEU:HD21	1:A:1658:VAL:HG11	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1702:ARG:CG	1:B:1702:ARG:NH1	2.52	0.66
1:C:1032:MET:HE2	1:C:1165:PRO:HB3	1.78	0.66
1:E:636:TYR:CZ	1:E:640:LEU:HD22	2.31	0.66
1:F:1443:LEU:O	1:F:1447:VAL:HG23	1.96	0.66
2:G:35:PHE:CZ	2:G:105:ILE:HD13	2.30	0.66
2:G:57:PRO:CG	2:G:68:GLU:HG3	2.25	0.66
2:G:635:TYR:CG	2:G:641:MET:HG3	2.31	0.66
2:H:382:LEU:HB3	2:H:499:VAL:HB	1.78	0.66
2:H:762:LEU:HD22	2:H:802:TYR:CD2	2.28	0.66
2:H:1318:ALA:HA	2:H:1391:VAL:HG21	1.77	0.66
2:J:1093:ASP:O	2:J:1097:PHE:HD1	1.77	0.66
2:L:584:SER:HB2	2:L:1114:GLU:HA	1.77	0.66
2:L:594:MET:HB3	2:L:808:ASP:O	1.95	0.66
2:L:789:TYR:HB3	2:L:790:PRO:HD3	1.77	0.66
2:L:938:MET:HE2	2:L:959:THR:HG22	1.78	0.66
1:C:828:TRP:HE1	1:C:838:THR:HA	1.60	0.66
1:C:1364:THR:HG22	1:C:1366:GLN:H	1.61	0.66
1:D:18:LEU:HD21	2:J:1844:LEU:HD11	1.77	0.66
1:D:682:VAL:HG11	1:D:695:TYR:HE2	1.61	0.66
1:E:67:ALA:HB3	2:J:371:HIS:CE1	2.30	0.66
1:E:997:THR:CG2	1:E:1361:VAL:HG22	2.26	0.66
1:E:1573:MET:HE2	1:E:1622:VAL:HG23	1.77	0.66
2:G:1468:ARG:HH11	2:G:1468:ARG:CB	2.08	0.66
2:G:2008:THR:O	2:G:2011:ARG:HB2	1.96	0.66
2:H:789:TYR:HB3	2:H:790:PRO:HD3	1.77	0.66
2:I:1602:LEU:HD13	2:I:1606:ILE:HD12	1.78	0.66
2:J:272:PRO:HD3	2:J:301:TRP:CE2	2.31	0.66
2:J:609:THR:OG1	2:J:610:PRO:HD3	1.95	0.66
2:K:1019:LEU:O	2:K:1022:ARG:HG2	1.96	0.66
2:L:1156:ASP:HB3	2:L:1158:ASP:H	1.61	0.66
2:L:1478:GLN:HG3	2:L:1479:HIS:H	1.60	0.66
1:E:1001:GLU:O	1:E:1007:ASN:HA	1.96	0.66
1:F:535:TYR:HB3	1:F:540:LYS:HG3	1.76	0.66
1:F:1323:ALA:HB1	1:F:1351:PHE:CE2	2.31	0.66
2:G:765:TYR:HB2	2:G:805:MET:HE3	1.78	0.66
2:H:1061:VAL:CG1	2:H:1066:ILE:HD11	2.26	0.66
2:I:635:TYR:CG	2:I:641:MET:HG3	2.30	0.66
2:I:765:TYR:HB2	2:I:805:MET:HE3	1.78	0.66
2:K:1479:HIS:CD2	2:K:1481:ILE:HG12	2.28	0.66
2:K:1551:ILE:HG12	2:K:1552:GLU:H	1.60	0.66
2:L:942:MET:HE2	2:L:955:LEU:HD13	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:427:ARG:NH1	1:B:492:ILE:HG13	2.11	0.66
1:C:570:TYR:CE1	1:C:574:ILE:HD11	2.31	0.66
1:D:828:TRP:HE1	1:D:838:THR:HA	1.60	0.66
1:D:962:ASN:HD22	2:J:1006:GLN:HE22	1.42	0.66
1:F:47:ILE:HB	2:L:1694:PHE:CD1	2.31	0.66
2:G:582:LYS:HG3	2:G:1110:VAL:HG11	1.78	0.66
2:G:1948:MET:HA	2:G:1948:MET:CE	2.24	0.66
2:H:35:PHE:CZ	2:H:105:ILE:HD13	2.30	0.66
2:H:47:GLN:HG3	2:I:23:PRO:HG2	1.78	0.66
2:H:1602:LEU:HD13	2:H:1606:ILE:HD12	1.76	0.66
2:H:1871:VAL:CG2	2:H:2004:PRO:HD3	2.26	0.66
2:H:2019:SER:HA	2:H:2022:LEU:HD12	1.78	0.66
2:I:783:GLY:HA3	2:I:1075:TYR:HB3	1.77	0.66
2:I:1641:GLY:HA3	2:I:1678:VAL:HA	1.78	0.66
2:J:1299:VAL:CG2	2:J:1301:PHE:HE2	2.09	0.66
2:K:77:ALA:O	2:K:139:ALA:HB1	1.96	0.66
2:L:2015:LYS:HB2	2:L:2016:PRO:HD3	1.77	0.66
1:B:1421:ARG:HD2	1:B:1489:PHE:O	1.94	0.65
1:C:1183:VAL:HG11	1:C:1187:THR:HG21	1.77	0.65
1:C:1217:GLU:O	1:C:1299:ALA:HB1	1.97	0.65
1:E:439:ARG:HA	1:E:705:ARG:HG2	1.76	0.65
1:E:751:GLU:OE1	1:E:770:MET:HE1	1.96	0.65
1:E:1697:LEU:O	1:E:1699:PRO:HD3	1.96	0.65
1:F:777:LEU:O	1:F:781:ILE:HG13	1.97	0.65
2:G:461:PRO:HD2	2:G:464:SER:OG	1.96	0.65
2:G:511:THR:CG2	2:G:512:HIS:HD2	2.06	0.65
2:H:1299:VAL:CG2	2:H:1301:PHE:HE2	2.08	0.65
2:H:1888:PRO:HB3	2:H:1895:PHE:HD1	1.61	0.65
2:I:21:LEU:HD22	2:I:36:LEU:HD22	1.79	0.65
2:J:81:ALA:HB2	2:J:139:ALA:HA	1.76	0.65
2:J:172:ILE:HD11	2:J:501:TRP:CZ2	2.31	0.65
2:J:762:LEU:HD22	2:J:802:TYR:CD2	2.27	0.65
2:L:783:GLY:HA3	2:L:1075:TYR:HB3	1.77	0.65
2:L:1053:ILE:HD12	2:L:1061:VAL:HG22	1.77	0.65
2:L:1335:PHE:CE1	2:L:1629:ILE:HD11	2.31	0.65
2:L:1442:TYR:HA	2:L:1445:THR:HG22	1.78	0.65
1:A:1218:VAL:HG13	1:A:1301:VAL:CG1	2.27	0.65
1:A:1496:ARG:CZ	1:E:1297:GLY:HA2	2.26	0.65
1:B:562:SER:HB3	1:E:551:LEU:HD21	1.77	0.65
1:C:440:SER:HB3	1:C:481:LEU:HD23	1.77	0.65
1:D:777:LEU:O	1:D:781:ILE:HG13	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:752:HIS:NE2	2:G:856:THR:HG21	2.12	0.65
2:H:260:HIS:CE1	2:H:543:GLY:HA2	2.31	0.65
2:I:1346:MET:HE3	2:I:1617:ARG:NH2	2.12	0.65
2:J:57:PRO:CG	2:J:68:GLU:HG3	2.26	0.65
2:J:903:ILE:HD11	2:J:914:TRP:CE2	2.31	0.65
2:J:1551:ILE:HG12	2:J:1552:GLU:H	1.60	0.65
2:K:608:MET:H	2:K:612:THR:HB	1.60	0.65
2:K:876:TRP:CH2	2:K:1043:LYS:HB2	2.32	0.65
2:K:915:PHE:HB2	2:K:1030:PHE:CD1	2.30	0.65
2:K:1478:GLN:HG3	2:K:1479:HIS:H	1.61	0.65
2:L:468:PRO:CD	2:L:479:ARG:HH21	2.08	0.65
2:L:486:ILE:HG22	2:L:490:LEU:HG	1.77	0.65
1:C:1330:GLU:HG2	1:C:1333:ARG:NH1	2.10	0.65
1:C:1510:TRP:CZ3	1:C:1642:LEU:HA	2.32	0.65
1:D:487:TYR:CE2	1:D:881:LEU:HD13	2.30	0.65
1:E:777:LEU:O	1:E:781:ILE:HG13	1.95	0.65
1:E:1089:TYR:CE1	1:E:1312:GLU:HG3	2.31	0.65
1:F:613:PRO:O	1:F:614:PHE:HB2	1.96	0.65
1:F:1280:CYS:HB2	1:F:1626:GLY:HA2	1.78	0.65
2:G:1888:PRO:HB3	2:G:1895:PHE:HD1	1.62	0.65
2:H:1305:LEU:HD23	2:H:1366:ILE:HD11	1.77	0.65
2:H:1946:LEU:HD22	2:H:1951:ILE:HD13	1.77	0.65
2:I:582:LYS:HG3	2:I:1110:VAL:HG11	1.78	0.65
2:J:876:TRP:CH2	2:J:1043:LYS:HB2	2.30	0.65
2:K:1094:HIS:O	2:K:1098:LEU:HB2	1.96	0.65
2:K:1602:LEU:HD13	2:K:1606:ILE:HD12	1.78	0.65
1:A:1100:VAL:HG21	1:A:1150:ILE:HD12	1.77	0.65
1:A:1493:PHE:CE2	1:A:1509:THR:HG22	2.32	0.65
1:D:962:ASN:HB3	2:J:969:ARG:CD	2.25	0.65
1:D:1217:GLU:O	1:D:1299:ALA:HB1	1.96	0.65
1:D:1330:GLU:HG2	1:D:1333:ARG:NH1	2.11	0.65
1:D:1448:ALA:HA	1:D:1451:LYS:HD2	1.76	0.65
1:E:767:HIS:HB2	1:E:813:LEU:HD12	1.78	0.65
1:F:1142:LEU:H	1:F:1142:LEU:HD12	1.59	0.65
2:H:584:SER:HB2	2:H:1114:GLU:HA	1.78	0.65
2:H:1468:ARG:HH11	2:H:1468:ARG:CB	2.09	0.65
2:I:788:THR:HG22	2:I:1094:HIS:HE1	1.62	0.65
2:J:511:THR:CG2	2:J:512:HIS:HD2	2.09	0.65
2:J:1156:ASP:HB3	2:J:1158:ASP:H	1.62	0.65
2:K:331:LEU:C	2:L:1627:ASN:HD21	2.04	0.65
2:K:582:LYS:HG3	2:K:1110:VAL:HG11	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1200:ARG:HD3	2:K:1200:ARG:H	1.60	0.65
2:L:752:HIS:HE1	2:L:847:TYR:HE2	1.43	0.65
2:L:1551:ILE:HG12	2:L:1552:GLU:H	1.61	0.65
1:A:1250:LEU:HB2	1:E:1317:GLU:HG3	1.77	0.65
1:A:1462:ASP:HB2	1:A:1465:ALA:HB3	1.79	0.65
1:B:430:VAL:HG11	1:B:490:VAL:HG11	1.77	0.65
1:C:30:GLU:HB2	2:I:2045:ALA:CB	2.27	0.65
1:D:433:CYS:O	1:D:437:MET:HG3	1.97	0.65
1:D:440:SER:HB3	1:D:481:LEU:HD23	1.78	0.65
1:F:1510:TRP:HZ3	1:F:1642:LEU:HA	1.60	0.65
2:G:501:TRP:NE1	2:G:528:THR:HG22	2.07	0.65
2:H:609:THR:OG1	2:H:610:PRO:HD3	1.95	0.65
2:H:1335:PHE:HE1	2:H:1629:ILE:CD1	2.09	0.65
2:J:35:PHE:CZ	2:J:105:ILE:HD13	2.32	0.65
2:J:325:ALA:HB2	2:J:447:ALA:HB2	1.78	0.65
2:J:752:HIS:NE2	2:J:856:THR:HG21	2.12	0.65
2:J:1115:TYR:OH	2:J:1173:HIS:HD2	1.80	0.65
2:J:1807:GLN:HB2	2:J:1808:PRO:HD3	1.79	0.65
2:K:1053:ILE:HD12	2:K:1061:VAL:HG22	1.78	0.65
2:L:485:ASP:HB3	2:L:488:PRO:CD	2.27	0.65
1:B:440:SER:HB3	1:B:481:LEU:HD23	1.79	0.65
1:B:1499:ARG:CD	1:D:1476:ARG:NH1	2.58	0.65
1:B:1686:PRO:HB2	1:B:1713:PHE:CE2	2.31	0.65
1:D:542:GLN:HB3	1:D:579:MET:CE	2.26	0.65
1:D:580:ASN:O	1:D:584:ILE:HG13	1.96	0.65
1:D:1547:ARG:HG2	1:D:1604:TYR:HD1	1.62	0.65
1:E:973:TRP:NE1	1:E:1648:LYS:HB2	2.12	0.65
1:F:1330:GLU:HG2	1:F:1333:ARG:HH11	1.62	0.65
2:H:635:TYR:CG	2:H:641:MET:HG3	2.32	0.65
2:I:594:MET:HB3	2:I:808:ASP:O	1.96	0.65
2:I:1551:ILE:HG12	2:I:1552:GLU:N	2.12	0.65
2:I:1750:GLY:O	2:I:1755:LYS:HE3	1.97	0.65
2:J:67:ASP:HA	2:J:132:LYS:HE2	1.78	0.65
2:J:942:MET:HE2	2:J:955:LEU:HD13	1.78	0.65
2:L:1335:PHE:CE1	2:L:1629:ILE:CD1	2.79	0.65
1:A:406:ALA:HA	1:A:439:ARG:NH1	2.11	0.65
1:A:532:ILE:CG2	1:A:907:PHE:HB2	2.25	0.65
1:A:1510:TRP:CZ3	1:A:1642:LEU:HA	2.30	0.65
1:B:340:LEU:HD21	1:E:340:LEU:HD21	1.79	0.65
1:D:31:THR:HG23	2:J:2040:ILE:HG21	1.76	0.65
1:D:551:LEU:C	1:D:551:LEU:HD23	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1223:GLY:HA3	1:D:1276:PRO:HD2	1.78	0.65
2:H:765:TYR:HB2	2:H:805:MET:HE3	1.79	0.65
2:I:260:HIS:CE1	2:I:543:GLY:HA2	2.32	0.65
2:I:1053:ILE:HD12	2:I:1061:VAL:HG22	1.78	0.65
2:I:1468:ARG:HH11	2:I:1468:ARG:CB	2.08	0.65
2:J:260:HIS:CE1	2:J:543:GLY:HA2	2.31	0.65
2:L:771:CYS:HB3	2:L:774:ILE:HD12	1.77	0.65
1:C:831:GLU:HG2	1:D:755:GLU:CG	2.25	0.65
1:E:1217:GLU:O	1:E:1299:ALA:HB1	1.97	0.65
1:E:1224:SER:HB2	1:E:1307:PHE:O	1.97	0.65
1:E:1702:ARG:HG3	1:E:1702:ARG:NH1	2.06	0.65
2:G:197:VAL:HG21	2:G:263:ILE:HD11	1.78	0.65
2:H:1094:HIS:O	2:H:1098:LEU:HB2	1.97	0.65
2:I:468:PRO:CD	2:I:479:ARG:HH21	2.10	0.65
2:J:616:ASP:OD2	2:J:823:HIS:HE1	1.78	0.65
2:K:789:TYR:CE1	2:K:1097:PHE:HB3	2.32	0.65
1:A:967:PHE:CD2	1:A:1374:PRO:HG3	2.32	0.65
1:C:1100:VAL:HG21	1:C:1150:ILE:HD12	1.79	0.65
1:C:1330:GLU:HG2	1:C:1333:ARG:HH11	1.61	0.65
1:D:1323:ALA:HB1	1:D:1351:PHE:HE2	1.62	0.65
1:D:1421:ARG:HD2	1:D:1489:PHE:O	1.97	0.65
1:F:997:THR:CG2	1:F:1361:VAL:HG22	2.27	0.65
2:G:771:CYS:HB3	2:G:774:ILE:HD12	1.78	0.65
2:G:875:PHE:CD1	2:G:905:LYS:HD3	2.32	0.65
2:H:788:THR:HG22	2:H:1094:HIS:HE1	1.61	0.65
2:H:865:ILE:HG21	2:H:867:LYS:HE3	1.79	0.65
2:H:903:ILE:HD11	2:H:914:TRP:CE2	2.32	0.65
2:H:2032:PRO:C	2:H:2036:ILE:HG13	2.22	0.65
2:I:1200:ARG:H	2:I:1200:ARG:HD3	1.61	0.65
2:K:1468:ARG:HH11	2:K:1468:ARG:CB	2.09	0.65
2:L:595:SER:HB3	2:L:602:PRO:CG	2.26	0.65
2:L:766:SER:O	2:L:770:LYS:HG3	1.97	0.65
1:B:997:THR:CG2	1:B:1361:VAL:HG22	2.27	0.65
1:B:1224:SER:HB2	1:B:1307:PHE:O	1.97	0.65
1:C:427:ARG:NH1	1:C:492:ILE:CG1	2.59	0.65
1:D:669:VAL:O	1:D:673:LEU:HD12	1.97	0.65
1:D:1510:TRP:CZ3	1:D:1642:LEU:HA	2.32	0.65
1:E:1108:PRO:HG3	1:E:1141:ARG:NE	2.11	0.65
1:E:1574:LEU:HD12	1:E:1622:VAL:HG11	1.77	0.65
2:G:1602:LEU:HD13	2:G:1606:ILE:HD12	1.78	0.65
2:H:964:ARG:O	2:H:967:GLU:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1948:MET:HA	2:H:1948:MET:CE	2.25	0.65
2:H:2059:HIS:ND1	2:H:2067:ILE:HG22	2.11	0.65
2:I:608:MET:H	2:I:612:THR:HB	1.61	0.65
2:J:293:ALA:HA	2:J:469:VAL:HG21	1.79	0.65
2:J:1204:VAL:HG22	2:J:1219:VAL:HG22	1.79	0.65
2:K:325:ALA:HB2	2:K:447:ALA:HB2	1.78	0.65
2:K:327:PRO:O	2:L:1338:ARG:NH2	2.27	0.65
2:L:876:TRP:CH2	2:L:1043:LYS:HB2	2.32	0.65
1:A:29:ILE:HD11	2:G:1922:VAL:C	2.23	0.64
1:A:1630:LYS:HD2	1:E:1273:ILE:HD11	1.78	0.64
1:D:1504:ARG:CG	1:D:1504:ARG:NH1	2.50	0.64
2:G:1351:VAL:HG23	2:G:1584:SER:HA	1.79	0.64
2:G:1478:GLN:HG3	2:G:1479:HIS:N	2.13	0.64
2:H:486:ILE:HG22	2:H:490:LEU:HG	1.78	0.64
2:H:875:PHE:CD1	2:H:905:LYS:HD3	2.32	0.64
2:H:1179:GLU:HA	2:H:1190:ASN:HB2	1.79	0.64
2:I:272:PRO:HD3	2:I:301:TRP:CE2	2.32	0.64
2:I:1097:PHE:HD2	2:I:1100:ARG:HH12	1.45	0.64
2:J:582:LYS:HG3	2:J:1110:VAL:HG11	1.79	0.64
2:J:594:MET:HB3	2:J:808:ASP:O	1.96	0.64
2:J:915:PHE:HB2	2:J:1030:PHE:CD1	2.32	0.64
2:J:1223:SER:HB2	2:J:1226:ALA:HB3	1.79	0.64
2:K:915:PHE:CD2	2:K:915:PHE:O	2.50	0.64
2:K:2059:HIS:ND1	2:K:2067:ILE:HG22	2.12	0.64
2:L:501:TRP:NE1	2:L:528:THR:HG22	2.06	0.64
1:A:1217:GLU:O	1:A:1299:ALA:HB1	1.96	0.64
1:B:833:TRP:HH2	1:B:839:ILE:HD11	1.62	0.64
1:B:1183:VAL:HG11	1:B:1187:THR:HG21	1.78	0.64
1:B:1448:ALA:HA	1:B:1451:LYS:HD2	1.78	0.64
1:C:371:GLN:HG2	1:D:372:LEU:HD11	1.79	0.64
1:D:43:ARG:NH1	2:J:1687:GLN:HE21	1.95	0.64
1:D:1160:VAL:HB	1:D:1352:MET:HE1	1.80	0.64
1:D:1663:LYS:HG2	2:J:1007:LEU:HD11	1.78	0.64
1:D:1674:ILE:HD11	2:J:1011:GLN:HG3	1.77	0.64
1:E:487:TYR:CE2	1:E:881:LEU:HD13	2.32	0.64
1:F:1702:ARG:CG	1:F:1702:ARG:NH1	2.49	0.64
2:G:1687:GLN:O	2:G:1828:GLN:NE2	2.31	0.64
2:H:1472:TRP:HB3	2:H:1530:TYR:HB2	1.79	0.64
2:I:663:ILE:H	2:I:663:ILE:HD12	1.63	0.64
2:J:865:ILE:HG21	2:J:867:LYS:HE3	1.79	0.64
2:J:1884:CYS:HB3	2:J:1936:LEU:HD12	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:752:HIS:CE1	2:K:847:TYR:HE2	2.16	0.64
2:K:765:TYR:HB2	2:K:805:MET:HE3	1.80	0.64
2:K:1299:VAL:HG23	2:K:1301:PHE:HE2	1.61	0.64
2:L:197:VAL:HG21	2:L:263:ILE:HD11	1.79	0.64
2:L:1468:ARG:HH11	2:L:1468:ARG:CB	2.10	0.64
1:A:565:GLN:HG3	1:F:551:LEU:HD11	1.80	0.64
1:A:890:ASN:OD1	2:L:1755:LYS:HE2	1.97	0.64
1:C:81:TYR:CE1	2:I:1821:MET:HE3	2.32	0.64
1:D:1078:ILE:HB	1:D:1338:GLY:CA	2.27	0.64
1:E:1703:VAL:CG1	1:E:1711:LEU:HB3	2.24	0.64
1:F:406:ALA:HA	1:F:439:ARG:NH1	2.12	0.64
2:G:1061:VAL:CG1	2:G:1066:ILE:HD11	2.27	0.64
2:G:1745:LEU:HB3	2:G:1799:LEU:CD2	2.27	0.64
2:G:2005:PHE:CB	2:G:2010:LEU:HD11	2.26	0.64
2:H:1479:HIS:CD2	2:H:1481:ILE:HG12	2.31	0.64
2:I:76:VAL:O	2:I:80:ILE:HG13	1.97	0.64
2:I:915:PHE:CD2	2:I:915:PHE:O	2.50	0.64
2:J:1361:ILE:HG22	2:J:1435:TYR:OH	1.97	0.64
2:J:1478:GLN:HG3	2:J:1479:HIS:N	2.13	0.64
2:J:2044:THR:HG21	2:J:2054:TYR:CZ	2.32	0.64
2:K:1750:GLY:O	2:K:1755:LYS:HE3	1.97	0.64
2:L:81:ALA:HB2	2:L:139:ALA:HA	1.79	0.64
1:A:989:ASN:N	1:A:1491:ASN:HD21	1.82	0.64
1:A:1001:GLU:O	1:A:1007:ASN:HA	1.97	0.64
1:A:1364:THR:HG22	1:A:1366:GLN:H	1.62	0.64
1:B:811:ASP:HB3	1:B:814:TYR:HB3	1.80	0.64
1:B:1510:TRP:HZ3	1:B:1642:LEU:HA	1.62	0.64
1:C:1094:LYS:HE3	1:C:1316:TYR:CD1	2.32	0.64
1:C:1443:LEU:CD1	1:C:1470:ARG:HB3	2.27	0.64
1:D:1640:LYS:HG3	1:D:1641:TYR:N	2.12	0.64
1:F:30:GLU:HB2	2:L:2045:ALA:HB1	1.78	0.64
1:F:855:ALA:HA	1:F:919:ARG:NH2	2.08	0.64
2:G:1289:TYR:CB	2:G:1370:LEU:HD23	2.28	0.64
2:H:305:ALA:O	2:H:309:LYS:HD3	1.98	0.64
2:H:327:PRO:CD	2:I:1338:ARG:NH2	2.58	0.64
2:H:926:LEU:O	2:H:1008:ILE:HD11	1.98	0.64
2:J:21:LEU:HD22	2:J:36:LEU:HD22	1.78	0.64
2:J:635:TYR:CG	2:J:641:MET:HG3	2.33	0.64
2:K:511:THR:CG2	2:K:512:HIS:HD2	2.09	0.64
2:L:1622:THR:HG23	2:L:1627:ASN:OD1	1.97	0.64
2:L:1764:MET:HE3	2:L:1865:LEU:HD12	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1213:VAL:HG22	1:B:1300:ARG:NH2	2.12	0.64
1:B:1697:LEU:O	1:B:1699:PRO:HD3	1.97	0.64
1:C:2:ARG:HD2	1:C:5:VAL:HG21	1.79	0.64
1:C:1421:ARG:HD2	1:C:1489:PHE:O	1.97	0.64
1:C:1705:GLN:HE21	1:C:1709:GLY:HA2	1.63	0.64
1:E:1168:TRP:NE1	1:E:1173:TYR:HE1	1.96	0.64
1:F:907:PHE:O	1:F:909:PRO:HD3	1.98	0.64
2:G:600:VAL:HG22	2:G:601:PRO:HD2	1.80	0.64
2:I:1991:ARG:HG3	2:I:1996:ILE:HG12	1.78	0.64
2:J:193:TYR:HD2	2:J:263:ILE:HD13	1.63	0.64
2:J:788:THR:HG22	2:J:1094:HIS:HE1	1.63	0.64
2:J:1468:ARG:HH11	2:J:1468:ARG:CB	2.09	0.64
2:J:2032:PRO:C	2:J:2036:ILE:HG13	2.23	0.64
2:K:250:PHE:HA	2:K:287:GLN:NE2	2.12	0.64
2:L:1479:HIS:CD2	2:L:1481:ILE:HG12	2.32	0.64
1:A:1214:HIS:CD2	1:A:1216:SER:OG	2.47	0.64
1:A:1431:GLN:OE1	1:E:1431:GLN:HG2	1.97	0.64
1:C:964:LYS:O	1:C:966:PRO:HD3	1.98	0.64
1:C:1462:ASP:HB2	1:C:1465:ALA:HB3	1.80	0.64
1:C:1514:ILE:O	1:C:1547:ARG:NH1	2.31	0.64
1:D:557:ARG:CG	1:D:557:ARG:NH1	2.53	0.64
1:D:1218:VAL:HG13	1:D:1301:VAL:CG1	2.28	0.64
1:E:843:VAL:HG13	1:E:900:ASP:HA	1.80	0.64
1:F:741:ASP:OD1	1:F:793:ARG:HD3	1.98	0.64
2:G:584:SER:HB2	2:G:1114:GLU:HA	1.79	0.64
2:G:1286:LYS:HZ3	2:G:1367:ASP:HA	1.62	0.64
2:H:1115:TYR:HB3	2:H:1267:PRO:HB3	1.79	0.64
2:H:1551:ILE:HG12	2:H:1552:GLU:N	2.13	0.64
2:I:876:TRP:CD1	2:I:876:TRP:C	2.76	0.64
2:I:2005:PHE:CB	2:I:2010:LEU:HD11	2.28	0.64
2:K:67:ASP:HA	2:K:132:LYS:HE2	1.79	0.64
2:K:260:HIS:CE1	2:K:543:GLY:HA2	2.33	0.64
2:K:1551:ILE:HG12	2:K:1552:GLU:N	2.12	0.64
2:K:1946:LEU:HD22	2:K:1951:ILE:HD13	1.78	0.64
2:L:2059:HIS:ND1	2:L:2067:ILE:HG22	2.12	0.64
1:A:532:ILE:CG2	1:A:907:PHE:HB3	2.26	0.64
1:A:997:THR:CG2	1:A:1361:VAL:HG22	2.28	0.64
1:A:1209:PHE:CE2	1:A:1301:VAL:HG21	2.32	0.64
1:B:422:LEU:HB3	1:B:429:ILE:HD11	1.79	0.64
1:B:741:ASP:OD1	1:B:793:ARG:HD3	1.98	0.64
1:B:1703:VAL:CG1	1:B:1711:LEU:HB3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1323:ALA:HB1	1:C:1351:PHE:CE2	2.32	0.64
1:E:1462:ASP:HB2	1:E:1465:ALA:HB3	1.80	0.64
1:F:474:ILE:O	1:F:478:LYS:HG3	1.98	0.64
2:G:609:THR:OG1	2:G:610:PRO:HD3	1.97	0.64
2:G:937:ARG:NE	2:G:941:LEU:HD11	2.13	0.64
2:G:1019:LEU:O	2:G:1022:ARG:HG2	1.97	0.64
2:G:1115:TYR:OH	2:G:1173:HIS:HD2	1.80	0.64
2:H:468:PRO:CD	2:H:479:ARG:HH21	2.11	0.64
2:I:158:LEU:HD22	2:I:169:ILE:HD11	1.79	0.64
2:I:1361:ILE:HG22	2:I:1435:TYR:OH	1.98	0.64
2:I:1659:ILE:HG13	2:I:1664:ILE:HD11	1.79	0.64
2:K:600:VAL:HG13	2:K:601:PRO:CD	2.26	0.64
2:K:1948:MET:HA	2:K:1948:MET:CE	2.26	0.64
2:K:2019:SER:HA	2:K:2022:LEU:HD12	1.77	0.64
2:L:635:TYR:CG	2:L:641:MET:HG3	2.33	0.64
2:L:1551:ILE:HG12	2:L:1552:GLU:N	2.13	0.64
1:A:1310:PHE:CE1	1:A:1315:SER:HB2	2.33	0.64
1:B:1107:GLU:HG3	1:B:1108:PRO:HD2	1.79	0.64
1:F:527:ALA:HB2	1:F:637:LEU:HD22	1.80	0.64
1:F:1510:TRP:CZ3	1:F:1642:LEU:HA	2.33	0.64
2:G:1551:ILE:HG12	2:G:1552:GLU:N	2.13	0.64
2:H:725:GLN:HG2	2:H:764:MET:HE1	1.78	0.64
2:H:1478:GLN:HG3	2:H:1479:HIS:N	2.11	0.64
2:I:1299:VAL:HG23	2:I:1301:PHE:HE2	1.59	0.64
2:I:1947:LYS:HE3	2:I:1948:MET:HE3	1.80	0.64
2:J:186:LEU:CD2	2:J:256:VAL:HG22	2.27	0.64
2:K:493:MET:HA	2:K:497:ASP:HB2	1.78	0.64
2:L:876:TRP:CD1	2:L:876:TRP:C	2.76	0.64
2:L:1093:ASP:O	2:L:1097:PHE:HD1	1.79	0.64
2:L:1692:TYR:HD1	2:L:1847:LEU:HD21	1.62	0.64
1:B:554:ARG:O	1:B:555:GLN:HG3	1.98	0.64
1:B:1100:VAL:HG21	1:B:1150:ILE:HD12	1.79	0.64
1:C:1218:VAL:HG13	1:C:1301:VAL:CG1	2.28	0.64
1:D:1005:TRP:NE1	1:D:1561:LEU:CD2	2.61	0.64
1:D:1183:VAL:HG11	1:D:1187:THR:HG21	1.79	0.64
1:D:1211:LYS:O	1:D:1702:ARG:HD3	1.98	0.64
1:F:1462:ASP:HB2	1:F:1465:ALA:HB3	1.80	0.64
2:G:595:SER:HB3	2:G:602:PRO:CG	2.25	0.64
2:G:1551:ILE:HG12	2:G:1552:GLU:H	1.61	0.64
2:H:193:TYR:CD2	2:H:263:ILE:HD13	2.33	0.64
2:H:938:MET:HE2	2:H:959:THR:HG22	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:726:GLN:O	2:I:730:ILE:HG12	1.98	0.64
2:I:1093:ASP:O	2:I:1097:PHE:HD1	1.79	0.64
2:I:1946:LEU:HD22	2:I:1951:ILE:HD13	1.78	0.64
2:J:462:ALA:HB2	2:J:481:LEU:HB2	1.80	0.64
2:L:827:GLN:NE2	2:L:827:GLN:H	1.96	0.64
1:A:503:ARG:HA	1:A:933:ILE:HD11	1.79	0.64
1:A:1078:ILE:CG2	1:A:1352:MET:HE3	2.27	0.64
1:A:1307:PHE:HB3	1:A:1357:CYS:HB2	1.79	0.64
1:A:1432:ILE:HD11	1:A:1481:GLN:HB3	1.80	0.64
1:D:1462:ASP:HB2	1:D:1465:ALA:HB3	1.78	0.64
2:G:930:THR:CG2	2:G:933:GLU:H	2.10	0.64
2:G:1353:GLY:HA2	2:G:1397:THR:HG21	1.79	0.64
2:H:193:TYR:HD2	2:H:263:ILE:HD13	1.62	0.64
2:H:1991:ARG:HG3	2:H:1996:ILE:HG12	1.80	0.64
2:I:875:PHE:CD1	2:I:905:LYS:HD3	2.33	0.64
2:I:1442:TYR:HA	2:I:1445:THR:HG22	1.78	0.64
2:L:608:MET:H	2:L:612:THR:HB	1.61	0.64
2:L:788:THR:HG22	2:L:1094:HIS:HE1	1.63	0.64
2:L:1019:LEU:O	2:L:1022:ARG:HG2	1.98	0.64
2:L:1641:GLY:HA3	2:L:1678:VAL:HA	1.79	0.64
2:L:1948:MET:HA	2:L:1948:MET:CE	2.28	0.64
1:B:911:LEU:O	1:B:915:MET:HG3	1.98	0.63
1:B:1089:TYR:CE1	1:B:1312:GLU:HG3	2.32	0.63
1:E:18:LEU:HD21	2:K:1844:LEU:CD1	2.28	0.63
1:E:1005:TRP:NE1	1:E:1561:LEU:CD2	2.58	0.63
1:E:1018:GLY:HA2	1:E:1590:ARG:NH2	2.13	0.63
1:F:999:LEU:HD21	1:F:1575:ASN:CG	2.24	0.63
1:F:1364:THR:HG22	1:F:1366:GLN:H	1.63	0.63
1:F:1703:VAL:HG22	1:F:1712:LYS:C	2.23	0.63
2:H:1848:ALA:HA	2:H:2034:LYS:HD3	1.79	0.63
2:I:1299:VAL:CG2	2:I:1301:PHE:HE2	2.11	0.63
2:I:1335:PHE:CE1	2:I:1629:ILE:HD11	2.34	0.63
2:J:549:ASN:HD22	2:J:550:THR:N	1.97	0.63
2:J:1551:ILE:HG12	2:J:1552:GLU:N	2.14	0.63
2:K:752:HIS:NE2	2:K:856:THR:CG2	2.61	0.63
2:K:1299:VAL:CG2	2:K:1301:PHE:HE2	2.10	0.63
2:L:521:VAL:CG1	2:L:549:ASN:HB2	2.28	0.63
2:L:663:ILE:HD12	2:L:663:ILE:H	1.63	0.63
1:A:70:ALA:HB2	2:I:407:LYS:NZ	2.13	0.63
1:A:365:GLN:HG3	1:F:365:GLN:HG3	1.80	0.63
1:A:1330:GLU:HG2	1:A:1333:ARG:NH1	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1106:LEU:HD23	1:B:1107:GLU:H	1.62	0.63
1:C:751:GLU:OE1	1:C:770:MET:HE1	1.98	0.63
1:C:1534:GLU:HG2	1:C:1625:PHE:CE1	2.33	0.63
1:D:973:TRP:NE1	1:D:1648:LYS:HB2	2.13	0.63
1:F:1078:ILE:CG2	1:F:1352:MET:HE3	2.28	0.63
1:F:1448:ALA:HA	1:F:1451:LYS:HD2	1.79	0.63
2:G:616:ASP:OD2	2:G:823:HIS:CE1	2.51	0.63
2:G:938:MET:HE2	2:G:959:THR:HG22	1.79	0.63
2:H:608:MET:H	2:H:612:THR:HB	1.62	0.63
2:I:57:PRO:CG	2:I:68:GLU:HG3	2.26	0.63
2:I:1478:GLN:HG3	2:I:1479:HIS:N	2.12	0.63
2:K:854:VAL:CG2	2:K:1070:PRO:HA	2.28	0.63
2:L:57:PRO:CG	2:L:68:GLU:HG3	2.27	0.63
2:L:762:LEU:HD22	2:L:802:TYR:CD2	2.28	0.63
2:L:792:LEU:HD23	2:L:1094:HIS:ND1	2.13	0.63
2:L:1745:LEU:HB3	2:L:1799:LEU:CD2	2.28	0.63
1:A:777:LEU:O	1:A:781:ILE:HG13	1.98	0.63
1:B:956:ILE:HA	2:H:977:PRO:HA	1.81	0.63
1:B:1330:GLU:HG2	1:B:1333:ARG:HH11	1.62	0.63
1:B:1432:ILE:HD11	1:B:1481:GLN:HB3	1.81	0.63
1:C:1499:ARG:HD3	1:F:1476:ARG:NH1	2.13	0.63
1:D:605:ARG:HB3	1:D:606:PRO:HD3	1.78	0.63
1:D:689:ARG:NH1	1:D:1339:GLU:OE2	2.31	0.63
1:D:930:GLN:HA	1:D:933:ILE:HD12	1.80	0.63
1:E:433:CYS:O	1:E:437:MET:HG3	1.99	0.63
1:E:1323:ALA:HB1	1:E:1351:PHE:CE2	2.32	0.63
2:G:486:ILE:HG22	2:G:490:LEU:HG	1.78	0.63
2:G:1053:ILE:HD12	2:G:1061:VAL:HG22	1.80	0.63
2:G:2054:TYR:HA	2:G:2057:GLU:OE1	1.98	0.63
2:H:67:ASP:HA	2:H:132:LYS:HE2	1.81	0.63
2:H:1200:ARG:HD3	2:H:1200:ARG:H	1.63	0.63
2:I:448:HIS:HD2	2:I:491:VAL:HG12	1.63	0.63
2:K:792:LEU:HD23	2:K:1094:HIS:ND1	2.14	0.63
2:L:1299:VAL:CG2	2:L:1301:PHE:HE2	2.11	0.63
1:A:422:LEU:HB3	1:A:429:ILE:HD11	1.80	0.63
1:A:551:LEU:C	1:A:551:LEU:HD23	2.24	0.63
1:A:551:LEU:HD21	1:F:562:SER:HB3	1.79	0.63
1:B:992:LYS:HE2	1:D:1495:ARG:NH1	2.14	0.63
1:C:12:THR:O	1:C:16:GLU:HG2	1.99	0.63
1:D:580:ASN:ND2	1:D:582:SER:HB2	2.14	0.63
1:D:1330:GLU:HG2	1:D:1333:ARG:HH11	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:682:VAL:HG11	1:E:695:TYR:HE2	1.64	0.63
1:E:905:LEU:HD23	1:E:908:ILE:HD12	1.78	0.63
1:F:1702:ARG:HG3	1:F:1702:ARG:NH1	2.06	0.63
2:G:608:MET:H	2:G:612:THR:HB	1.62	0.63
2:H:250:PHE:HA	2:H:287:GLN:NE2	2.14	0.63
2:H:752:HIS:CE1	2:H:847:TYR:HE2	2.16	0.63
2:H:876:TRP:CH2	2:H:1043:LYS:HB2	2.34	0.63
2:H:2057:GLU:HA	2:H:2060:ARG:NH1	2.13	0.63
2:I:35:PHE:CZ	2:I:105:ILE:HD13	2.33	0.63
2:I:937:ARG:NE	2:I:941:LEU:HD11	2.13	0.63
2:I:1224:GLN:HG3	2:I:1578:GLU:OE2	1.98	0.63
2:I:1305:LEU:HD21	2:I:1365:LYS:HB2	1.79	0.63
2:I:2059:HIS:ND1	2:I:2067:ILE:HG22	2.14	0.63
2:J:1593:SER:OG	2:J:1596:PHE:HB2	1.98	0.63
2:K:876:TRP:CD1	2:K:876:TRP:C	2.75	0.63
2:L:600:VAL:HG13	2:L:601:PRO:CD	2.28	0.63
2:L:609:THR:OG1	2:L:610:PRO:HD3	1.99	0.63
1:A:427:ARG:HH12	1:A:492:ILE:HG12	1.62	0.63
1:B:18:LEU:HD21	2:H:1844:LEU:CD1	2.28	0.63
1:B:1505:GLY:O	1:B:1509:THR:HG23	1.99	0.63
1:C:811:ASP:HB3	1:C:814:TYR:HB3	1.80	0.63
1:C:1168:TRP:NE1	1:C:1173:TYR:HE1	1.96	0.63
1:D:1310:PHE:CE1	1:D:1315:SER:HB2	2.33	0.63
1:E:612:ILE:HG12	1:E:628:TYR:HE2	1.62	0.63
1:F:15:VAL:HG11	2:L:2022:LEU:HD21	1.79	0.63
2:G:979:LEU:HD21	2:G:999:ALA:HB3	1.80	0.63
2:G:1094:HIS:O	2:G:1098:LEU:HB2	1.99	0.63
2:G:2032:PRO:C	2:G:2036:ILE:HG13	2.24	0.63
2:H:979:LEU:HD21	2:H:999:ALA:HB3	1.81	0.63
2:I:590:VAL:HG23	2:I:1091:HIS:CD2	2.33	0.63
2:J:1094:HIS:O	2:J:1098:LEU:HB2	1.97	0.63
2:J:1918:VAL:CG1	2:J:2006:HIS:HB2	2.25	0.63
2:L:35:PHE:CZ	2:L:105:ILE:HD13	2.34	0.63
2:L:186:LEU:CD2	2:L:256:VAL:HG22	2.28	0.63
2:L:1371:LEU:O	2:L:1590:ILE:HD11	1.99	0.63
1:D:1463:GLU:O	1:D:1467:LEU:HB2	1.98	0.63
1:E:1037:ASN:CG	1:E:1674:ILE:HG23	2.24	0.63
1:F:440:SER:HB3	1:F:481:LEU:HD23	1.81	0.63
2:G:81:ALA:HB2	2:G:139:ALA:HA	1.80	0.63
2:H:580:LEU:HD21	2:H:1095:ILE:HA	1.80	0.63
2:I:1061:VAL:CG1	2:I:1066:ILE:HD11	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1851:MET:HE3	2:I:2025:ILE:HG12	1.79	0.63
2:J:1871:VAL:HG21	2:J:2003:VAL:HA	1.80	0.63
2:K:272:PRO:HD3	2:K:301:TRP:CE2	2.33	0.63
2:K:1318:ALA:HA	2:K:1391:VAL:HG21	1.80	0.63
2:L:580:LEU:HD21	2:L:1095:ILE:HA	1.80	0.63
2:L:1370:LEU:HA	2:L:1435:TYR:HE2	1.64	0.63
1:E:1432:ILE:HD11	1:E:1481:GLN:HB3	1.81	0.63
1:F:669:VAL:O	1:F:673:LEU:HD12	1.98	0.63
2:I:250:PHE:HA	2:I:287:GLN:NE2	2.13	0.63
2:I:955:LEU:HD21	2:I:1026:LYS:HB3	1.81	0.63
2:I:1846:ALA:HB3	2:I:1847:LEU:HD12	1.81	0.63
2:J:290:VAL:HG11	2:J:315:LEU:HD13	1.79	0.63
2:J:752:HIS:CE1	2:J:847:TYR:HE2	2.16	0.63
2:J:1692:TYR:HD1	2:J:1847:LEU:HD21	1.64	0.63
2:L:138:ARG:HB3	2:L:192:THR:HG23	1.81	0.63
2:L:903:ILE:HD11	2:L:914:TRP:CE2	2.34	0.63
2:L:1097:PHE:HD2	2:L:1100:ARG:HH12	1.47	0.63
2:L:1299:VAL:HG23	2:L:1301:PHE:HE2	1.63	0.63
1:A:1032:MET:HE2	1:A:1165:PRO:HB3	1.80	0.63
1:A:1078:ILE:HB	1:A:1338:GLY:CA	2.29	0.63
1:B:1323:ALA:HB1	1:B:1351:PHE:HE2	1.63	0.63
1:C:689:ARG:NE	1:C:1339:GLU:HG2	2.14	0.63
1:D:619:LYS:HG2	1:D:620:LYS:H	1.64	0.63
1:E:30:GLU:HB2	2:K:2045:ALA:CB	2.28	0.63
1:E:965:TYR:CZ	1:E:1199:LEU:CD2	2.82	0.63
1:F:973:TRP:NE1	1:F:1648:LYS:HB2	2.14	0.63
2:G:600:VAL:HG13	2:G:601:PRO:HD2	1.80	0.63
2:G:705:TYR:HA	2:G:709:LEU:HD21	1.79	0.63
2:G:1223:SER:HB2	2:G:1226:ALA:HB3	1.79	0.63
2:G:1851:MET:HE1	2:G:1859:VAL:HG21	1.81	0.63
2:I:251:PRO:HG3	2:I:316:PHE:CA	2.28	0.63
2:I:486:ILE:HG22	2:I:490:LEU:HG	1.79	0.63
2:I:752:HIS:CE1	2:I:847:TYR:HE2	2.16	0.63
2:I:938:MET:HB3	2:I:959:THR:HG22	1.80	0.63
2:I:1985:GLN:HG3	2:I:1986:PRO:CD	2.24	0.63
2:J:1848:ALA:HA	2:J:2034:LYS:HD3	1.81	0.63
2:K:448:HIS:HD2	2:K:491:VAL:HG12	1.64	0.63
2:K:609:THR:OG1	2:K:610:PRO:HD3	1.98	0.63
2:K:1848:ALA:HA	2:K:2034:LYS:HD3	1.81	0.63
2:L:382:LEU:HG	2:L:390:VAL:HB	1.80	0.63
2:L:529:ASN:HD22	2:L:552:VAL:HG22	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2:ARG:HD2	1:A:5:VAL:HG21	1.80	0.63
1:E:532:ILE:HG22	1:E:907:PHE:CB	2.29	0.63
1:F:422:LEU:HB3	1:F:429:ILE:HD11	1.80	0.63
2:G:250:PHE:HA	2:G:287:GLN:NE2	2.13	0.63
2:G:260:HIS:CE1	2:G:543:GLY:HA2	2.34	0.63
2:G:272:PRO:HD3	2:G:301:TRP:CE2	2.34	0.63
2:G:382:LEU:HG	2:G:390:VAL:HB	1.81	0.63
2:G:583:THR:OG1	2:G:587:GLN:HB2	1.97	0.63
2:G:1479:HIS:CD2	2:G:1481:ILE:HG12	2.34	0.63
2:H:876:TRP:CD1	2:H:876:TRP:C	2.76	0.63
2:H:1622:THR:HG23	2:H:1627:ASN:OD1	1.99	0.63
2:J:610:PRO:CD	3:J:2101:FMN:H6	2.29	0.63
2:J:1404:VAL:O	2:J:1445:THR:HA	1.99	0.63
2:L:818:THR:HA	2:L:829:LYS:HG2	1.80	0.63
2:L:2057:GLU:HA	2:L:2060:ARG:NH1	2.14	0.63
1:A:1610:ARG:HH11	1:A:1610:ARG:CG	1.91	0.62
1:A:1640:LYS:HG3	1:A:1641:TYR:N	2.14	0.62
1:B:1217:GLU:O	1:B:1299:ALA:HB1	1.99	0.62
1:B:1703:VAL:HG22	1:B:1712:LYS:C	2.24	0.62
1:C:422:LEU:HB3	1:C:429:ILE:HD11	1.79	0.62
1:D:70:ALA:HB2	2:L:407:LYS:HZ1	1.64	0.62
2:G:876:TRP:C	2:G:876:TRP:CD1	2.77	0.62
2:H:595:SER:HB3	2:H:602:PRO:CG	2.25	0.62
2:I:930:THR:CG2	2:I:933:GLU:H	2.12	0.62
2:I:1356:ALA:HB3	2:I:1397:THR:HG22	1.81	0.62
2:I:1692:TYR:HD1	2:I:1847:LEU:HD21	1.63	0.62
2:J:779:GLY:HA3	2:J:811:MET:HE2	1.81	0.62
2:J:1324:PHE:CA	2:J:1583:VAL:HG11	2.29	0.62
2:K:788:THR:HG22	2:K:1094:HIS:CE1	2.33	0.62
2:K:979:LEU:HD21	2:K:999:ALA:HB3	1.80	0.62
2:K:1807:GLN:HB2	2:K:1808:PRO:HD3	1.81	0.62
2:L:448:HIS:HD2	2:L:491:VAL:HG12	1.64	0.62
2:L:814:SER:HB2	3:L:2101:FMN:O3P	1.99	0.62
2:L:1053:ILE:HD11	2:L:1061:VAL:HG13	1.81	0.62
1:A:15:VAL:HG11	2:G:2022:LEU:HD21	1.80	0.62
1:A:577:LEU:HB3	1:A:579:MET:HE2	1.81	0.62
1:C:636:TYR:CZ	1:C:640:LEU:HD22	2.34	0.62
1:D:1363:MET:HE1	1:D:1373:VAL:CG2	2.27	0.62
1:E:1078:ILE:HB	1:E:1338:GLY:CA	2.29	0.62
1:F:962:ASN:HD22	2:L:1006:GLN:HE22	1.45	0.62
1:F:1018:GLY:HA2	1:F:1590:ARG:NH2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1183:VAL:HG11	1:F:1187:THR:HG21	1.80	0.62
2:G:818:THR:HA	2:G:829:LYS:HG2	1.81	0.62
2:G:1200:ARG:H	2:G:1200:ARG:HD3	1.64	0.62
2:H:623:ASN:OD1	2:H:653:PRO:HD3	2.00	0.62
2:H:855:ILE:HB	2:H:869:ALA:HB2	1.81	0.62
2:J:915:PHE:O	2:J:915:PHE:CD2	2.52	0.62
2:K:352:SER:HB2	2:K:433:LEU:HD21	1.81	0.62
2:K:1093:ASP:O	2:K:1097:PHE:HD1	1.81	0.62
1:A:1160:VAL:HB	1:A:1352:MET:HE1	1.80	0.62
1:B:999:LEU:HD21	1:B:1575:ASN:CG	2.24	0.62
1:B:1463:GLU:O	1:B:1467:LEU:HB2	1.98	0.62
1:C:1108:PRO:HG3	1:C:1141:ARG:NE	2.15	0.62
1:E:689:ARG:NH2	1:E:1591:ASN:HD21	1.96	0.62
1:F:1005:TRP:NE1	1:F:1561:LEU:CD2	2.60	0.62
2:G:752:HIS:CE1	2:G:847:TYR:HE2	2.17	0.62
2:G:865:ILE:HG21	2:G:867:LYS:HE3	1.80	0.62
2:G:942:MET:HE2	2:G:955:LEU:HD13	1.81	0.62
2:G:1289:TYR:CG	2:G:1370:LEU:HD23	2.34	0.62
2:G:1472:TRP:HB3	2:G:1530:TYR:HB2	1.80	0.62
2:H:1361:ILE:HG22	2:H:1435:TYR:OH	1.99	0.62
2:J:779:GLY:HA3	2:J:811:MET:CE	2.30	0.62
2:K:2032:PRO:C	2:K:2036:ILE:HG13	2.24	0.62
2:L:260:HIS:CE1	2:L:543:GLY:HA2	2.34	0.62
2:L:915:PHE:CD2	2:L:915:PHE:O	2.52	0.62
2:L:1375:HIS:HE1	2:L:1610:MET:SD	2.22	0.62
2:L:1866:THR:HA	2:L:1869:VAL:HG22	1.81	0.62
2:L:2005:PHE:CB	2:L:2010:LEU:HD11	2.29	0.62
1:A:397:ARG:HH11	1:A:692:THR:HG21	1.64	0.62
1:A:633:THR:HG22	1:A:637:LEU:HD12	1.82	0.62
1:B:562:SER:OG	1:E:551:LEU:HD21	2.00	0.62
1:C:1160:VAL:HB	1:C:1352:MET:HE1	1.81	0.62
1:D:533:SER:HB2	1:D:612:ILE:HB	1.81	0.62
2:G:792:LEU:HD23	2:G:1094:HIS:ND1	2.14	0.62
2:G:854:VAL:CG2	2:G:1070:PRO:HA	2.30	0.62
2:I:583:THR:OG1	2:I:587:GLN:HB2	1.98	0.62
2:J:489:GLU:O	2:J:493:MET:HG3	2.00	0.62
2:J:1851:MET:HE1	2:J:1859:VAL:HG21	1.80	0.62
2:K:305:ALA:O	2:K:309:LYS:HD3	2.00	0.62
2:K:1115:TYR:CZ	2:K:1174:ALA:HB2	2.35	0.62
2:K:1289:TYR:CG	2:K:1370:LEU:HD23	2.34	0.62
2:K:1641:GLY:HA3	2:K:1678:VAL:HA	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1610:MET:HA	2:L:1610:MET:CE	2.29	0.62
1:A:968:PRO:HD2	1:A:1374:PRO:HB3	1.79	0.62
1:A:1213:VAL:HG22	1:A:1300:ARG:NH2	2.14	0.62
1:C:504:GLY:O	1:C:926:SER:HB2	2.00	0.62
1:C:1018:GLY:HA2	1:C:1590:ARG:NH2	2.14	0.62
1:D:1186:VAL:HG23	1:D:1309:ASP:HB2	1.80	0.62
1:E:1086:PHE:CE2	1:E:1310:PHE:HD2	2.17	0.62
1:E:1448:ALA:HA	1:E:1451:LYS:HD2	1.80	0.62
1:F:731:ASP:HB3	1:F:735:GLY:HA3	1.81	0.62
1:F:1421:ARG:HD2	1:F:1489:PHE:O	1.99	0.62
2:G:766:SER:O	2:G:770:LYS:HG3	1.98	0.62
2:G:1299:VAL:HG23	2:G:1301:PHE:HE2	1.64	0.62
2:G:1335:PHE:HE1	2:G:1629:ILE:CD1	2.13	0.62
2:G:1375:HIS:ND1	2:G:1610:MET:HG2	2.15	0.62
2:H:461:PRO:HD2	2:H:464:SER:OG	2.00	0.62
2:H:1286:LYS:HZ3	2:H:1367:ASP:HA	1.64	0.62
2:H:1593:SER:OG	2:H:1596:PHE:HB2	1.99	0.62
2:I:325:ALA:HB2	2:I:447:ALA:HB2	1.82	0.62
2:I:1868:GLN:HG2	2:I:1873:ARG:HH22	1.65	0.62
2:J:1175:MET:HA	2:J:1274:ILE:CD1	2.29	0.62
2:J:1200:ARG:H	2:J:1200:ARG:HD3	1.65	0.62
2:J:1436:ARG:HH22	2:J:1602:LEU:HD21	1.64	0.62
2:J:1641:GLY:HA3	2:J:1678:VAL:HA	1.81	0.62
2:J:1750:GLY:O	2:J:1755:LYS:HE3	2.00	0.62
2:K:196:PHE:CD2	2:K:266:LYS:HB3	2.34	0.62
2:L:325:ALA:HB2	2:L:447:ALA:HB2	1.80	0.62
1:A:682:VAL:HG11	1:A:695:TYR:HE2	1.65	0.62
1:A:1505:GLY:O	1:A:1509:THR:HG23	1.99	0.62
1:B:1510:TRP:CZ3	1:B:1642:LEU:HA	2.34	0.62
1:C:541:VAL:HG21	1:C:585:MET:HE2	1.81	0.62
1:C:997:THR:CG2	1:C:1361:VAL:HG22	2.30	0.62
1:C:1078:ILE:HB	1:C:1338:GLY:CA	2.29	0.62
1:C:1504:ARG:NH1	1:C:1504:ARG:CG	2.47	0.62
2:G:915:PHE:CD2	2:G:915:PHE:O	2.53	0.62
2:G:1156:ASP:HB3	2:G:1158:ASP:H	1.64	0.62
2:G:1848:ALA:HA	2:G:2034:LYS:HD3	1.82	0.62
2:G:2052:LYS:HD3	2:G:2074:TRP:HE1	1.65	0.62
2:H:43:PHE:CD2	2:I:22:ARG:CG	2.83	0.62
2:H:594:MET:HB3	2:H:808:ASP:O	1.99	0.62
2:H:1641:GLY:HA3	2:H:1678:VAL:HA	1.82	0.62
2:I:1204:VAL:HG22	2:I:1219:VAL:HG22	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1896:THR:HG22	2:J:1897:GLU:N	2.13	0.62
2:L:77:ALA:O	2:L:139:ALA:HB1	2.00	0.62
2:L:623:ASN:OD1	2:L:653:PRO:HD3	2.00	0.62
2:L:1780:ILE:HG23	2:L:1869:VAL:HG11	1.81	0.62
1:A:811:ASP:HB3	1:A:814:TYR:HB3	1.81	0.62
1:A:911:LEU:O	1:A:915:MET:HG3	2.00	0.62
1:B:905:LEU:HD23	1:B:908:ILE:HD12	1.79	0.62
1:B:1018:GLY:HA2	1:B:1590:ARG:NH2	2.14	0.62
1:B:1269:SER:O	1:D:1386:THR:HB	2.00	0.62
1:E:1364:THR:HG22	1:E:1366:GLN:H	1.64	0.62
1:F:1186:VAL:HG23	1:F:1309:ASP:HB2	1.81	0.62
2:G:1288:PHE:O	2:G:1292:VAL:HG23	2.00	0.62
2:G:1641:GLY:HA3	2:G:1678:VAL:HA	1.81	0.62
2:G:2015:LYS:HB2	2:G:2016:PRO:HD3	1.81	0.62
2:H:57:PRO:CG	2:H:68:GLU:HG3	2.28	0.62
2:H:485:ASP:HB3	2:H:488:PRO:CD	2.29	0.62
2:H:1687:GLN:O	2:H:1828:GLN:NE2	2.32	0.62
2:I:448:HIS:HD2	2:I:491:VAL:CG1	2.13	0.62
2:I:529:ASN:HD22	2:I:552:VAL:HG22	1.64	0.62
2:J:486:ILE:HG22	2:J:490:LEU:HG	1.80	0.62
2:J:789:TYR:CE1	2:J:1097:PHE:HB3	2.35	0.62
2:J:1123:ALA:HB3	2:J:1126:GLU:HG3	1.82	0.62
2:J:2005:PHE:CB	2:J:2010:LEU:HD11	2.29	0.62
1:A:31:THR:HG23	2:G:2040:ILE:CG2	2.30	0.62
1:B:557:ARG:NH1	1:E:558:LEU:HA	2.15	0.62
1:B:1499:ARG:CD	1:D:1476:ARG:HH12	2.02	0.62
1:C:41:THR:HG21	2:I:1691:ALA:HB2	1.81	0.62
1:C:503:ARG:HA	1:C:933:ILE:HD11	1.81	0.62
1:C:535:TYR:CD1	1:C:610:GLU:N	2.67	0.62
1:D:682:VAL:HG11	1:D:695:TYR:CE2	2.34	0.62
1:D:1086:PHE:CE2	1:D:1310:PHE:HD2	2.18	0.62
1:E:811:ASP:HB3	1:E:814:TYR:HB3	1.79	0.62
2:H:1353:GLY:HA2	2:H:1397:THR:HG21	1.80	0.62
2:I:857:VAL:HG13	2:I:876:TRP:NE1	2.14	0.62
2:J:76:VAL:O	2:J:80:ILE:HG13	1.99	0.62
2:J:1946:LEU:HD22	2:J:1951:ILE:HD13	1.81	0.62
2:K:462:ALA:HB2	2:K:481:LEU:HB2	1.80	0.62
2:K:501:TRP:NE1	2:K:528:THR:CG2	2.62	0.62
2:K:1346:MET:HE3	2:K:1617:ARG:HH21	1.64	0.62
2:L:854:VAL:HG21	2:L:1070:PRO:HA	1.81	0.62
2:L:2032:PRO:C	2:L:2036:ILE:HG13	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1005:TRP:NE1	1:A:1561:LEU:CD2	2.61	0.62
1:A:1095:GLN:O	1:A:1096:LEU:HD23	1.99	0.62
1:B:335:LEU:C	1:B:335:LEU:HD12	2.24	0.62
1:D:811:ASP:HB3	1:D:814:TYR:HB3	1.81	0.62
1:D:1095:GLN:O	1:D:1096:LEU:HD23	2.00	0.62
1:E:1421:ARG:HD2	1:E:1489:PHE:O	2.00	0.62
1:F:833:TRP:HH2	1:F:839:ILE:HD11	1.64	0.62
2:G:158:LEU:HD22	2:G:169:ILE:HD11	1.80	0.62
2:G:1339:GLY:HA2	2:I:376:ARG:NH2	2.15	0.62
2:H:1356:ALA:HB3	2:H:1397:THR:HG22	1.82	0.62
2:I:1866:THR:HA	2:I:1869:VAL:HG22	1.82	0.62
2:J:382:LEU:HG	2:J:390:VAL:HB	1.80	0.62
2:K:251:PRO:HG3	2:K:316:PHE:CA	2.28	0.62
2:K:600:VAL:HG22	2:K:601:PRO:HD2	1.81	0.62
2:K:1067:LEU:N	2:K:1067:LEU:HD12	2.15	0.62
2:K:1692:TYR:HD1	2:K:1847:LEU:HD21	1.62	0.62
2:L:76:VAL:O	2:L:80:ILE:HG13	1.99	0.62
2:L:251:PRO:HG3	2:L:316:PHE:CA	2.29	0.62
2:L:789:TYR:CE1	2:L:1097:PHE:HB3	2.34	0.62
2:L:930:THR:CG2	2:L:933:GLU:H	2.12	0.62
1:A:371:GLN:HG2	1:F:372:LEU:HD11	1.81	0.62
1:A:1007:ASN:ND2	1:A:1031:MET:HE1	2.15	0.62
1:B:433:CYS:O	1:B:437:MET:HG3	2.00	0.62
1:C:612:ILE:HG23	1:C:628:TYR:CD2	2.35	0.62
1:D:1094:LYS:HE3	1:D:1316:TYR:CD1	2.35	0.62
1:D:1697:LEU:O	1:D:1699:PRO:HD3	1.99	0.62
1:F:828:TRP:HE1	1:F:838:THR:HA	1.64	0.62
1:F:905:LEU:HD23	1:F:908:ILE:HD12	1.81	0.62
1:F:1086:PHE:CE2	1:F:1310:PHE:HD2	2.18	0.62
2:G:215:TRP:CE3	2:G:216:ASP:N	2.66	0.62
2:G:521:VAL:CG1	2:G:549:ASN:HB2	2.30	0.62
2:H:752:HIS:NE2	2:H:856:THR:HG21	2.15	0.62
2:H:1871:VAL:HG21	2:H:2003:VAL:HA	1.81	0.62
2:H:2052:LYS:HD3	2:H:2074:TRP:HE1	1.64	0.62
2:I:1475:LEU:HD23	2:I:1476:ASP:H	1.65	0.62
2:J:461:PRO:HD2	2:J:464:SER:OG	1.99	0.62
2:L:1356:ALA:HB3	2:L:1397:THR:HG22	1.81	0.62
2:L:1946:LEU:HD22	2:L:1951:ILE:HD13	1.81	0.62
1:A:1367:LEU:HD22	1:A:1371:MET:HG3	1.82	0.61
1:B:689:ARG:CZ	1:B:1339:GLU:HG2	2.30	0.61
1:C:565:GLN:O	1:C:569:LEU:HD12	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1224:SER:HB2	1:C:1307:PHE:O	2.00	0.61
1:D:605:ARG:HB3	1:D:606:PRO:HD2	1.80	0.61
1:E:715:ASN:HD22	1:E:717:GLY:H	1.48	0.61
1:F:1573:MET:HE2	1:F:1622:VAL:HG23	1.82	0.61
2:G:931:TYR:O	2:G:935:VAL:HG12	1.99	0.61
2:G:1622:THR:HG23	2:G:1627:ASN:OD1	2.00	0.61
2:H:1239:ASP:OD1	2:H:1240:ASN:N	2.33	0.61
2:H:2005:PHE:CB	2:H:2010:LEU:HD11	2.29	0.61
2:I:317:TRP:O	2:I:321:ARG:HG2	2.00	0.61
2:J:1888:PRO:HB3	2:J:1895:PHE:HD1	1.65	0.61
2:K:1181:PHE:CE1	2:K:1191:PRO:HD2	2.35	0.61
2:L:583:THR:OG1	2:L:587:GLN:HB2	2.00	0.61
2:L:610:PRO:CD	3:L:2101:FMN:H6	2.30	0.61
2:L:865:ILE:HG21	2:L:867:LYS:HE3	1.82	0.61
2:L:1061:VAL:CG1	2:L:1066:ILE:HD11	2.29	0.61
1:A:47:ILE:HB	2:G:1694:PHE:HD1	1.65	0.61
1:A:999:LEU:HD21	1:A:1575:ASN:CG	2.24	0.61
1:A:1107:GLU:HG3	1:A:1108:PRO:HD2	1.82	0.61
1:A:1443:LEU:O	1:A:1447:VAL:HG23	1.97	0.61
1:C:434:ILE:HD11	1:C:490:VAL:HG21	1.82	0.61
1:D:421:ARG:HH22	1:D:1613:LYS:HB3	1.65	0.61
1:D:967:PHE:CD2	1:D:1662:GLN:HB2	2.34	0.61
1:E:1505:GLY:O	1:E:1509:THR:HG23	2.00	0.61
2:G:21:LEU:HD22	2:G:36:LEU:HD22	1.82	0.61
2:G:1346:MET:HE3	2:G:1617:ARG:NH2	2.15	0.61
2:G:2052:LYS:H	2:G:2052:LYS:CE	2.07	0.61
2:H:462:ALA:HB2	2:H:481:LEU:HB2	1.82	0.61
2:I:610:PRO:CD	3:I:2101:FMN:H6	2.29	0.61
2:J:1019:LEU:O	2:J:1022:ARG:HG2	2.00	0.61
2:K:35:PHE:CZ	2:K:105:ILE:HD13	2.35	0.61
2:K:440:HIS:CD2	2:K:497:ASP:O	2.53	0.61
2:K:1478:GLN:HG3	2:K:1479:HIS:N	2.15	0.61
2:K:1622:THR:HG23	2:K:1627:ASN:OD1	2.00	0.61
2:K:1764:MET:CE	2:K:1865:LEU:HD12	2.30	0.61
2:L:411:PRO:HD2	2:L:414:LEU:CD1	2.31	0.61
2:L:914:TRP:HE1	2:L:916:GLY:HA3	1.66	0.61
2:L:1116:PHE:O	2:L:1270:GLY:HA3	2.00	0.61
2:L:1888:PRO:HG3	2:L:1900:LEU:HD12	1.82	0.61
1:A:1018:GLY:HA2	1:A:1590:ARG:NH2	2.15	0.61
1:B:1032:MET:HE2	1:B:1165:PRO:HB3	1.82	0.61
1:C:1078:ILE:HD13	1:C:1352:MET:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1209:PHE:CE2	1:C:1301:VAL:HG21	2.35	0.61
1:E:970:LEU:HD21	1:E:1658:VAL:HG11	1.81	0.61
1:F:1001:GLU:O	1:F:1007:ASN:HA	2.00	0.61
1:F:1209:PHE:CE2	1:F:1301:VAL:HG21	2.35	0.61
2:G:580:LEU:HD21	2:G:1095:ILE:HA	1.81	0.61
2:G:646:SER:HA	2:G:649:GLU:HG2	1.81	0.61
2:H:788:THR:HG22	2:H:1094:HIS:CE1	2.35	0.61
2:H:1362:PHE:N	2:H:1363:PRO:HD2	2.14	0.61
2:H:1692:TYR:HD1	2:H:1847:LEU:HD21	1.65	0.61
2:H:1871:VAL:HG21	2:H:2004:PRO:HD3	1.81	0.61
2:I:197:VAL:HG21	2:I:263:ILE:HD11	1.82	0.61
2:I:1019:LEU:O	2:I:1022:ARG:HG2	2.00	0.61
2:J:613:VAL:HG12	2:J:614:PRO:HD3	1.83	0.61
2:J:792:LEU:HD23	2:J:1094:HIS:ND1	2.14	0.61
2:J:1991:ARG:HG3	2:J:1996:ILE:HG12	1.81	0.61
2:K:515:ASP:HB3	2:K:541:LEU:HD23	1.82	0.61
2:K:521:VAL:CG1	2:K:549:ASN:HB2	2.29	0.61
2:K:623:ASN:OD1	2:K:653:PRO:HD3	1.99	0.61
2:K:1976:CYS:O	2:K:1980:THR:HG23	2.00	0.61
2:L:1362:PHE:N	2:L:1363:PRO:HD2	2.15	0.61
2:L:1478:GLN:HG3	2:L:1479:HIS:N	2.15	0.61
2:L:1991:ARG:HG3	2:L:1996:ILE:HG12	1.81	0.61
1:A:1565:PRO:O	1:A:1566:LYS:C	2.43	0.61
1:B:2:ARG:HD2	1:B:5:VAL:HG21	1.80	0.61
1:B:751:GLU:OE1	1:B:770:MET:HE1	2.00	0.61
1:B:1078:ILE:HB	1:B:1338:GLY:CA	2.30	0.61
1:B:1095:GLN:O	1:B:1096:LEU:HD23	2.01	0.61
1:C:1149:LEU:HB2	1:F:1149:LEU:HB2	1.83	0.61
1:C:1463:GLU:O	1:C:1467:LEU:HB2	1.99	0.61
1:D:1001:GLU:O	1:D:1007:ASN:HA	2.00	0.61
1:D:1168:TRP:NE1	1:D:1173:TYR:HE1	1.98	0.61
1:E:440:SER:HB3	1:E:481:LEU:HD23	1.80	0.61
1:E:1160:VAL:HB	1:E:1352:MET:HE1	1.82	0.61
1:E:1367:LEU:HD22	1:E:1371:MET:HG3	1.80	0.61
1:F:1078:ILE:HB	1:F:1338:GLY:CA	2.29	0.61
2:G:325:ALA:HB2	2:G:447:ALA:HB2	1.81	0.61
2:G:462:ALA:HB2	2:G:481:LEU:HB2	1.82	0.61
2:G:762:LEU:HD22	2:G:802:TYR:CD2	2.33	0.61
2:G:903:ILE:HD11	2:G:914:TRP:CE2	2.36	0.61
2:G:1610:MET:HA	2:G:1610:MET:CE	2.29	0.61
2:H:600:VAL:HG13	2:H:601:PRO:CD	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:789:TYR:CE1	2:H:1097:PHE:HB3	2.36	0.61
2:I:915:PHE:HB2	2:I:1030:PHE:CD1	2.35	0.61
2:J:193:TYR:CD2	2:J:263:ILE:HD13	2.34	0.61
2:J:583:THR:OG1	2:J:587:GLN:HB2	1.99	0.61
2:J:875:PHE:CD1	2:J:905:LYS:HD3	2.35	0.61
2:K:317:TRP:O	2:K:321:ARG:HG2	2.00	0.61
2:K:1362:PHE:N	2:K:1363:PRO:HD2	2.15	0.61
2:K:2005:PHE:CB	2:K:2010:LEU:HD11	2.30	0.61
2:L:1846:ALA:HB3	2:L:1847:LEU:HD12	1.81	0.61
1:A:1106:LEU:HD23	1:A:1107:GLU:H	1.65	0.61
1:B:965:TYR:CZ	1:B:1199:LEU:HD22	2.35	0.61
1:B:1161:ALA:O	1:B:1163:GLN:HG3	2.00	0.61
1:C:1142:LEU:HD12	1:C:1142:LEU:N	2.14	0.61
1:D:997:THR:CG2	1:D:1361:VAL:HG22	2.30	0.61
1:D:1107:GLU:HG3	1:D:1108:PRO:HD2	1.82	0.61
1:D:1432:ILE:HD11	1:D:1481:GLN:HB3	1.83	0.61
1:E:1005:TRP:HE1	1:E:1561:LEU:HD22	1.62	0.61
1:E:1078:ILE:HD13	1:E:1352:MET:HG2	1.81	0.61
2:G:1318:ALA:HA	2:G:1391:VAL:HG21	1.83	0.61
2:H:709:LEU:HD23	2:H:709:LEU:H	1.65	0.61
2:H:915:PHE:CD2	2:H:915:PHE:O	2.53	0.61
2:I:67:ASP:HA	2:I:132:LYS:HE2	1.82	0.61
2:I:461:PRO:HD2	2:I:464:SER:OG	2.01	0.61
2:I:580:LEU:HD21	2:I:1095:ILE:HA	1.83	0.61
2:I:600:VAL:HG13	2:I:601:PRO:CD	2.30	0.61
2:J:791:TYR:HA	2:J:796:TRP:CD1	2.35	0.61
2:J:884:PHE:HE2	2:J:1039:GLU:HA	1.65	0.61
2:J:1362:PHE:N	2:J:1363:PRO:HD2	2.14	0.61
2:K:382:LEU:HG	2:K:390:VAL:HB	1.82	0.61
2:K:612:THR:HG22	2:K:612:THR:O	2.00	0.61
2:K:930:THR:CG2	2:K:933:GLU:H	2.13	0.61
2:K:1353:GLY:HA2	2:K:1397:THR:HG21	1.82	0.61
2:L:462:ALA:HB2	2:L:481:LEU:HB2	1.83	0.61
1:B:1032:MET:CE	1:B:1165:PRO:HB3	2.30	0.61
1:C:1001:GLU:O	1:C:1007:ASN:HA	2.01	0.61
1:C:1389:ILE:HG13	1:F:1268:SER:CB	2.08	0.61
1:E:1463:GLU:O	1:E:1467:LEU:HB2	1.99	0.61
1:E:1640:LYS:HG3	1:E:1641:TYR:N	2.15	0.61
2:G:190:TYR:CD1	2:G:201:ILE:HD13	2.34	0.61
2:G:541:LEU:HG	2:G:552:VAL:HG11	1.83	0.61
2:G:752:HIS:NE2	2:G:856:THR:CG2	2.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1123:ALA:HB3	2:G:1126:GLU:HG3	1.82	0.61
2:G:1299:VAL:CG2	2:G:1301:PHE:HE2	2.14	0.61
2:H:489:GLU:O	2:H:493:MET:HG3	2.00	0.61
2:I:865:ILE:HG21	2:I:867:LYS:HE3	1.83	0.61
2:I:1114:GLU:HB3	2:I:1169:TYR:HB3	1.82	0.61
2:J:251:PRO:HG3	2:J:316:PHE:CA	2.30	0.61
2:J:765:TYR:HB2	2:J:805:MET:HE3	1.81	0.61
2:J:1475:LEU:HD23	2:J:1476:ASP:H	1.65	0.61
2:J:2059:HIS:ND1	2:J:2067:ILE:HG22	2.15	0.61
2:K:818:THR:HA	2:K:829:LYS:HG2	1.81	0.61
2:L:215:TRP:CE3	2:L:216:ASP:N	2.67	0.61
2:L:540:ILE:HD13	2:L:557:GLU:HB3	1.82	0.61
1:A:31:THR:HG23	2:G:2040:ILE:HG21	1.82	0.61
1:B:989:ASN:N	1:B:1491:ASN:HD21	1.85	0.61
1:C:22:PHE:O	2:I:2010:LEU:HD12	2.00	0.61
1:C:731:ASP:HB3	1:C:735:GLY:HA3	1.81	0.61
1:F:47:ILE:HB	2:L:1694:PHE:HD1	1.65	0.61
1:F:1005:TRP:HE1	1:F:1561:LEU:HD22	1.65	0.61
1:F:1211:LYS:O	1:F:1702:ARG:HD3	1.99	0.61
2:G:48:LEU:HD13	2:G:83:VAL:HG22	1.83	0.61
2:G:594:MET:HB3	2:G:808:ASP:O	2.00	0.61
2:G:626:TYR:N	2:G:656:ARG:HH22	1.99	0.61
2:H:646:SER:HA	2:H:649:GLU:HG2	1.82	0.61
2:I:792:LEU:HD23	2:I:1094:HIS:ND1	2.15	0.61
2:I:1593:SER:OG	2:I:1596:PHE:HB2	1.99	0.61
2:J:521:VAL:CG1	2:J:549:ASN:HB2	2.31	0.61
2:J:1259:LEU:HD23	2:J:1288:PHE:HB2	1.82	0.61
2:J:1370:LEU:HA	2:J:1435:TYR:HE2	1.65	0.61
2:L:685:VAL:HG23	2:L:1186:ARG:NH1	2.15	0.61
2:L:915:PHE:HB2	2:L:1030:PHE:CD1	2.35	0.61
1:A:926:SER:O	1:A:930:GLN:HG2	2.01	0.61
1:B:962:ASN:HD22	2:H:1006:GLN:NE2	1.99	0.61
2:G:459:LYS:HB3	2:G:485:ASP:OD1	2.01	0.61
2:G:674:ILE:HD13	2:G:705:TYR:HE2	1.66	0.61
2:H:1019:LEU:O	2:H:1022:ARG:HG2	2.00	0.61
2:H:1204:VAL:HG22	2:H:1219:VAL:HG22	1.81	0.61
2:I:521:VAL:CG1	2:I:549:ASN:HB2	2.30	0.61
2:I:1370:LEU:HA	2:I:1435:TYR:HE2	1.65	0.61
2:J:766:SER:O	2:J:770:LYS:HG3	2.00	0.61
2:K:646:SER:HA	2:K:649:GLU:HG2	1.83	0.61
2:K:783:GLY:HA3	2:K:1075:TYR:CB	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:67:ASP:HA	2:L:132:LYS:HE2	1.81	0.61
2:L:196:PHE:CD2	2:L:266:LYS:HB3	2.35	0.61
2:L:705:TYR:HA	2:L:709:LEU:HD21	1.83	0.61
2:L:1519:THR:O	2:L:1520:LYS:HB2	2.01	0.61
1:B:619:LYS:HG2	1:B:620:LYS:H	1.66	0.61
1:C:999:LEU:HD21	1:C:1575:ASN:CG	2.25	0.61
1:E:619:LYS:HG2	1:E:620:LYS:H	1.64	0.61
1:E:999:LEU:HD21	1:E:1575:ASN:CG	2.25	0.61
1:E:999:LEU:HD11	1:E:1575:ASN:HB3	1.81	0.61
1:E:1007:ASN:ND2	1:E:1031:MET:HE1	2.16	0.61
2:G:1679:LEU:O	2:G:1680:GLN:HG3	2.01	0.61
2:G:2057:GLU:HA	2:G:2060:ARG:NH1	2.16	0.61
2:H:792:LEU:HD23	2:H:1094:HIS:ND1	2.15	0.61
2:H:1517:LEU:HB2	2:H:1521:GLU:HB2	1.81	0.61
2:H:1610:MET:HA	2:H:1610:MET:CE	2.30	0.61
2:I:595:SER:HB3	2:I:602:PRO:CG	2.28	0.61
2:I:2052:LYS:HD3	2:I:2074:TRP:HE1	1.66	0.61
2:J:1061:VAL:CG1	2:J:1066:ILE:HD11	2.31	0.61
2:J:1289:TYR:CG	2:J:1370:LEU:HD23	2.35	0.61
2:K:1114:GLU:HB3	2:K:1169:TYR:HB3	1.83	0.61
2:K:1171:TRP:HB3	2:K:1265:TYR:CE1	2.36	0.61
2:L:1985:GLN:HG3	2:L:1986:PRO:CD	2.23	0.61
1:A:397:ARG:NH1	1:A:692:THR:HG21	2.15	0.61
1:A:557:ARG:CG	1:A:557:ARG:NH1	2.54	0.61
1:A:1142:LEU:H	1:A:1142:LEU:HD12	1.66	0.61
1:A:1280:CYS:HB2	1:A:1626:GLY:HA2	1.81	0.61
1:C:383:TYR:O	1:C:387:ILE:HG23	2.00	0.61
1:C:715:ASN:HD22	1:C:717:GLY:H	1.49	0.61
1:D:767:HIS:NE2	1:D:771:LEU:HD23	2.16	0.61
1:D:1078:ILE:HB	1:D:1338:GLY:HA2	1.80	0.61
1:D:1224:SER:HB2	1:D:1307:PHE:O	2.01	0.61
1:E:828:TRP:HE1	1:E:838:THR:HA	1.66	0.61
1:E:833:TRP:HH2	1:E:839:ILE:HD11	1.66	0.61
1:F:59:ARG:HD2	2:L:1926:GLN:HE21	1.65	0.61
2:G:1946:LEU:HD22	2:G:1951:ILE:HD13	1.81	0.61
2:H:48:LEU:HD13	2:H:83:VAL:HG22	1.83	0.61
2:H:281:GLY:HA3	2:H:470:TYR:HE1	1.65	0.61
2:H:293:ALA:HA	2:H:469:VAL:HG21	1.83	0.61
2:H:791:TYR:HA	2:H:796:TRP:CD1	2.36	0.61
2:I:609:THR:OG1	2:I:610:PRO:HD3	2.00	0.61
2:I:674:ILE:HD13	2:I:705:TYR:HE2	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:762:LEU:HD22	2:I:802:TYR:CD2	2.31	0.61
2:I:788:THR:HG22	2:I:1094:HIS:CE1	2.36	0.61
2:J:2057:GLU:HA	2:J:2060:ARG:NH1	2.16	0.61
2:K:719:GLY:O	2:K:755:GLU:HG3	2.01	0.61
2:K:743:TRP:CE2	2:K:761:ILE:HD11	2.36	0.61
2:K:937:ARG:NE	2:K:941:LEU:HD11	2.16	0.61
2:K:1871:VAL:HG21	2:K:2003:VAL:HA	1.83	0.61
2:L:964:ARG:O	2:L:967:GLU:HB2	2.00	0.61
1:A:440:SER:HB3	1:A:481:LEU:HD23	1.82	0.60
1:B:439:ARG:HA	1:B:705:ARG:HG2	1.83	0.60
1:D:1018:GLY:HA2	1:D:1590:ARG:NH2	2.16	0.60
1:E:422:LEU:HB3	1:E:429:ILE:HD11	1.82	0.60
1:E:551:LEU:HD23	1:E:551:LEU:C	2.25	0.60
1:E:1514:ILE:O	1:E:1547:ARG:NH1	2.34	0.60
2:G:76:VAL:O	2:G:80:ILE:HG13	2.01	0.60
2:H:521:VAL:CG1	2:H:549:ASN:HB2	2.30	0.60
2:H:884:PHE:HE2	2:H:1039:GLU:HA	1.64	0.60
2:I:290:VAL:HG11	2:I:315:LEU:HD13	1.83	0.60
2:I:1362:PHE:N	2:I:1363:PRO:HD2	2.16	0.60
2:J:37:VAL:HG12	2:J:38:PRO:O	2.01	0.60
2:J:317:TRP:O	2:J:321:ARG:HG2	2.01	0.60
2:J:352:SER:HB2	2:J:433:LEU:HD21	1.83	0.60
2:J:646:SER:HA	2:J:649:GLU:HG2	1.82	0.60
2:J:663:ILE:H	2:J:663:ILE:HD12	1.64	0.60
2:J:1619:LEU:O	2:J:1623:TRP:HB2	2.01	0.60
2:K:743:TRP:CG	2:K:761:ILE:HD11	2.35	0.60
2:K:1053:ILE:HD11	2:K:1061:VAL:HG13	1.83	0.60
2:L:281:GLY:HA3	2:L:470:TYR:HE1	1.66	0.60
2:L:613:VAL:HG12	2:L:614:PRO:HD3	1.83	0.60
1:A:715:ASN:HD22	1:A:717:GLY:H	1.48	0.60
1:C:926:SER:O	1:C:930:GLN:HG2	2.01	0.60
1:C:1273:ILE:CD1	1:F:1630:LYS:HD2	2.30	0.60
1:D:731:ASP:HB3	1:D:735:GLY:HA3	1.82	0.60
1:E:1078:ILE:HB	1:E:1338:GLY:HA2	1.82	0.60
1:E:1106:LEU:HD23	1:E:1107:GLU:H	1.66	0.60
1:F:1107:GLU:HG3	1:F:1108:PRO:HD2	1.83	0.60
1:F:1463:GLU:O	1:F:1467:LEU:HB2	2.00	0.60
1:F:1697:LEU:O	1:F:1699:PRO:HD3	2.00	0.60
2:G:788:THR:HG22	2:G:1094:HIS:CE1	2.35	0.60
2:G:1008:ILE:HD12	2:G:1013:VAL:HG22	1.83	0.60
2:G:1991:ARG:HG3	2:G:1996:ILE:HG12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:251:PRO:HG3	2:H:316:PHE:CA	2.30	0.60
2:H:325:ALA:HB2	2:H:447:ALA:HB2	1.83	0.60
2:H:352:SER:HB2	2:H:433:LEU:HD21	1.81	0.60
2:H:382:LEU:HG	2:H:390:VAL:HB	1.82	0.60
2:H:610:PRO:CD	3:H:2101:FMN:H6	2.31	0.60
2:H:705:TYR:HA	2:H:709:LEU:HD21	1.83	0.60
2:I:154:TYR:CE1	2:I:561:ARG:NH1	2.68	0.60
2:I:854:VAL:HG21	2:I:1070:PRO:HA	1.84	0.60
2:I:979:LEU:HD21	2:I:999:ALA:HB3	1.83	0.60
2:I:1479:HIS:CD2	2:I:1481:ILE:HG12	2.34	0.60
2:K:281:GLY:HA3	2:K:470:TYR:HE1	1.66	0.60
2:K:461:PRO:HD2	2:K:464:SER:OG	2.01	0.60
2:K:521:VAL:O	2:K:526:VAL:HG21	2.01	0.60
2:L:1250:ARG:NH1	2:L:1592:VAL:HG12	2.16	0.60
2:L:1259:LEU:HD23	2:L:1288:PHE:HB2	1.83	0.60
1:B:1142:LEU:HD12	1:B:1142:LEU:N	2.15	0.60
1:B:1168:TRP:NE1	1:B:1173:TYR:HE1	1.99	0.60
1:C:1505:GLY:O	1:C:1509:THR:HG23	2.01	0.60
1:D:553:ARG:NH2	1:D:567:ASN:HD21	1.99	0.60
1:D:905:LEU:HD23	1:D:908:ILE:HD12	1.82	0.60
1:D:905:LEU:HD22	1:D:911:LEU:HD21	1.82	0.60
1:E:553:ARG:NH2	1:E:567:ASN:HD21	1.99	0.60
1:E:1095:GLN:O	1:E:1096:LEU:HD23	2.01	0.60
2:G:765:TYR:CB	2:G:805:MET:HE3	2.31	0.60
2:G:1918:VAL:CG1	2:G:2006:HIS:HB2	2.27	0.60
2:H:300:THR:H	2:H:303:GLU:HB3	1.67	0.60
2:H:818:THR:HA	2:H:829:LYS:HG2	1.84	0.60
2:H:1053:ILE:HD12	2:H:1061:VAL:HG22	1.83	0.60
2:I:293:ALA:HA	2:I:469:VAL:HG21	1.83	0.60
2:I:709:LEU:HD23	2:I:709:LEU:H	1.66	0.60
2:I:789:TYR:CE1	2:I:1097:PHE:HB3	2.36	0.60
2:I:964:ARG:O	2:I:967:GLU:HB2	2.01	0.60
2:I:1804:GLN:HG2	2:I:1865:LEU:HD23	1.83	0.60
2:J:752:HIS:NE2	2:J:856:THR:CG2	2.65	0.60
2:J:854:VAL:HG21	2:J:1070:PRO:HA	1.82	0.60
2:K:1259:LEU:HD23	2:K:1288:PHE:HB2	1.82	0.60
2:K:1887:ASN:H	2:K:1994:ALA:HB1	1.65	0.60
2:L:250:PHE:HA	2:L:287:GLN:NE2	2.16	0.60
2:L:293:ALA:HA	2:L:469:VAL:HG21	1.83	0.60
2:L:685:VAL:HG23	2:L:1186:ARG:HH12	1.67	0.60
2:L:765:TYR:HB2	2:L:805:MET:HE3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1078:ILE:HB	1:A:1338:GLY:HA2	1.82	0.60
1:C:552:ILE:HG12	1:D:552:ILE:HD11	1.84	0.60
1:C:1005:TRP:NE1	1:C:1561:LEU:CD2	2.63	0.60
1:C:1490:GLY:O	1:C:1509:THR:HB	2.01	0.60
2:G:67:ASP:HA	2:G:132:LYS:HE2	1.84	0.60
2:G:448:HIS:HD2	2:G:491:VAL:HG12	1.65	0.60
2:G:1175:MET:HE2	2:G:1234:ILE:HG21	1.83	0.60
2:G:1204:VAL:HG22	2:G:1219:VAL:HG22	1.83	0.60
2:G:1593:SER:OG	2:G:1596:PHE:HB2	2.02	0.60
2:H:2054:TYR:HA	2:H:2057:GLU:OE1	2.01	0.60
2:I:766:SER:O	2:I:770:LYS:HG3	2.01	0.60
2:I:1764:MET:HB3	2:I:1780:ILE:CD1	2.31	0.60
2:I:2032:PRO:C	2:I:2036:ILE:HG13	2.26	0.60
2:I:2044:THR:HG21	2:I:2054:TYR:CZ	2.37	0.60
2:J:876:TRP:C	2:J:876:TRP:CD1	2.79	0.60
2:K:489:GLU:O	2:K:493:MET:HG3	2.01	0.60
2:K:938:MET:HB3	2:K:959:THR:HG22	1.83	0.60
2:L:37:VAL:HG12	2:L:38:PRO:O	2.01	0.60
1:A:636:TYR:CZ	1:A:640:LEU:HD22	2.36	0.60
1:A:1211:LYS:O	1:A:1702:ARG:HD3	2.02	0.60
1:B:1565:PRO:O	1:B:1566:LYS:C	2.45	0.60
1:C:1640:LYS:HG3	1:C:1641:TYR:N	2.17	0.60
1:E:2:ARG:HD2	1:E:5:VAL:HG21	1.82	0.60
1:F:1100:VAL:HG21	1:F:1150:ILE:HD12	1.82	0.60
2:G:1802:ALA:HB1	2:G:1804:GLN:NE2	2.14	0.60
2:H:1846:ALA:HB3	2:H:1847:LEU:HD12	1.83	0.60
2:I:541:LEU:HG	2:I:552:VAL:HG11	1.83	0.60
2:I:1610:MET:HA	2:I:1610:MET:CE	2.30	0.60
2:J:468:PRO:CD	2:J:479:ARG:HH21	2.13	0.60
2:J:608:MET:H	2:J:612:THR:CB	2.15	0.60
2:J:1097:PHE:HD2	2:J:1100:ARG:HH12	1.49	0.60
2:J:1217:ILE:HD12	2:J:1234:ILE:HD12	1.83	0.60
2:J:1338:ARG:NH2	2:L:327:PRO:N	2.50	0.60
2:J:1947:LYS:HE3	2:J:1948:MET:HE3	1.83	0.60
2:K:472:THR:HG23	2:K:499:VAL:HA	1.83	0.60
2:K:1741:ASN:HD21	2:K:1798:GLY:HA3	1.65	0.60
2:L:674:ILE:HD13	2:L:705:TYR:HE2	1.66	0.60
2:L:743:TRP:CE2	2:L:761:ILE:HD11	2.36	0.60
1:A:682:VAL:HG11	1:A:695:TYR:CE2	2.36	0.60
1:A:1113:LYS:O	1:A:1117:GLU:HG3	2.02	0.60
1:B:673:LEU:O	1:B:678:ALA:HB3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1534:GLU:HG2	1:B:1625:PHE:CE1	2.36	0.60
1:C:408:GLN:HE22	1:C:1609:SER:H	1.49	0.60
1:C:1186:VAL:HG23	1:C:1309:ASP:HB2	1.82	0.60
1:D:942:VAL:O	2:J:1536:HIS:HB2	2.02	0.60
1:D:1078:ILE:CG2	1:D:1352:MET:HE3	2.32	0.60
1:E:427:ARG:NH1	1:E:492:ILE:HG12	2.17	0.60
1:E:1106:LEU:HD13	1:E:1142:LEU:HD13	1.84	0.60
2:G:448:HIS:HD2	2:G:491:VAL:CG1	2.15	0.60
2:H:583:THR:OG1	2:H:587:GLN:HB2	2.01	0.60
2:H:765:TYR:CB	2:H:805:MET:HE3	2.32	0.60
2:I:814:SER:HB2	3:I:2101:FMN:O3P	2.00	0.60
2:J:626:TYR:N	2:J:656:ARG:HH22	1.98	0.60
2:J:1499:LYS:HD3	2:J:1534:GLU:OE1	2.02	0.60
2:J:1871:VAL:CG2	2:J:2004:PRO:HD3	2.31	0.60
2:L:290:VAL:HG11	2:L:315:LEU:HD13	1.83	0.60
2:L:796:TRP:CZ2	2:L:805:MET:HE2	2.37	0.60
1:A:487:TYR:CE2	1:A:881:LEU:HD13	2.36	0.60
1:A:843:VAL:HG13	1:A:900:ASP:HA	1.83	0.60
1:B:562:SER:HB3	1:E:551:LEU:CD2	2.31	0.60
1:B:1401:LEU:O	1:B:1401:LEU:HD22	2.01	0.60
1:C:1310:PHE:CE1	1:C:1315:SER:HB2	2.37	0.60
2:G:1468:ARG:CG	2:G:1468:ARG:NH1	2.51	0.60
2:G:1694:PHE:HD2	2:G:1843:ALA:HB2	1.66	0.60
2:G:1966:ARG:O	2:G:1970:VAL:HG23	2.01	0.60
2:H:613:VAL:HG12	2:H:614:PRO:HD3	1.84	0.60
2:I:779:GLY:HA3	2:I:811:MET:HE2	1.83	0.60
2:I:1015:HIS:NE2	2:I:1019:LEU:HD11	2.17	0.60
2:I:1867:MET:O	2:I:2003:VAL:HG21	2.02	0.60
2:J:938:MET:HB3	2:J:959:THR:HG22	1.84	0.60
2:J:979:LEU:HD21	2:J:999:ALA:HB3	1.83	0.60
2:J:1610:MET:HA	2:J:1610:MET:CE	2.29	0.60
2:J:2015:LYS:HB2	2:J:2016:PRO:HD3	1.84	0.60
2:K:1061:VAL:HG12	2:K:1066:ILE:HD11	1.82	0.60
2:K:1851:MET:HE1	2:K:1859:VAL:HG21	1.84	0.60
2:K:1991:ARG:HG3	2:K:1996:ILE:HG12	1.82	0.60
2:L:752:HIS:NE2	2:L:856:THR:HG21	2.17	0.60
1:A:1330:GLU:HG2	1:A:1333:ARG:HH11	1.65	0.60
1:B:1007:ASN:ND2	1:B:1031:MET:HE1	2.17	0.60
1:C:433:CYS:O	1:C:437:MET:HG3	2.02	0.60
1:C:777:LEU:O	1:C:781:ILE:HG13	2.02	0.60
1:D:999:LEU:HD21	1:D:1575:ASN:CG	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:533:SER:HB2	1:E:612:ILE:HB	1.84	0.60
1:E:682:VAL:HG11	1:E:695:TYR:CE2	2.36	0.60
1:E:1483:ALA:HA	1:E:1486:GLN:HE21	1.66	0.60
1:F:12:THR:O	1:F:16:GLU:HG2	2.02	0.60
1:F:1078:ILE:HB	1:F:1338:GLY:HA2	1.83	0.60
2:G:317:TRP:O	2:G:321:ARG:HG2	2.01	0.60
2:G:352:SER:HB2	2:G:433:LEU:HD21	1.83	0.60
2:G:709:LEU:HD23	2:G:709:LEU:H	1.66	0.60
2:G:1561:ILE:HB	2:G:1655:HIS:HB3	1.82	0.60
2:H:1175:MET:HA	2:H:1274:ILE:CD1	2.32	0.60
2:H:1866:THR:HA	2:H:1869:VAL:HG22	1.84	0.60
2:H:1897:GLU:HG2	2:H:1901:GLN:NE2	2.17	0.60
2:I:382:LEU:HG	2:I:390:VAL:HB	1.83	0.60
2:I:1094:HIS:O	2:I:1098:LEU:HB2	2.02	0.60
2:J:607:GLY:HA2	2:J:612:THR:HG21	1.83	0.60
2:K:661:ASN:HD21	3:K:2101:FMN:HN3	1.49	0.60
2:K:765:TYR:CB	2:K:805:MET:HE3	2.31	0.60
2:K:791:TYR:HA	2:K:796:TRP:CD1	2.37	0.60
2:K:856:THR:HG23	2:K:866:HIS:CD2	2.37	0.60
2:K:1517:LEU:HB2	2:K:1521:GLU:HB2	1.84	0.60
2:L:317:TRP:O	2:L:321:ARG:HG2	2.02	0.60
2:L:612:THR:O	2:L:612:THR:HG22	2.00	0.60
2:L:911:GLN:NE2	2:L:1065:CYS:H	1.99	0.60
2:L:1574:PRO:HD3	2:L:1611:TYR:CE2	2.37	0.60
1:A:1183:VAL:HG11	1:A:1187:THR:HG21	1.83	0.60
1:A:1448:ALA:HA	1:A:1451:LYS:HD2	1.82	0.60
1:C:965:TYR:OH	1:C:1199:LEU:HD22	2.02	0.60
1:D:430:VAL:O	1:D:434:ILE:HG13	2.01	0.60
1:E:12:THR:O	1:E:16:GLU:HG2	2.02	0.60
1:E:701:ARG:NH1	1:E:1610:ARG:NH2	2.50	0.60
1:E:1078:ILE:CG2	1:E:1352:MET:HE3	2.31	0.60
2:G:485:ASP:HB3	2:G:488:PRO:CD	2.31	0.60
2:H:196:PHE:CD2	2:H:266:LYS:HB3	2.37	0.60
2:H:493:MET:HA	2:H:497:ASP:HB2	1.83	0.60
2:H:1499:LYS:HD3	2:H:1534:GLU:OE1	2.01	0.60
2:H:1521:GLU:OE2	2:H:2028:THR:HG22	2.02	0.60
2:H:1938:THR:O	2:H:1942:VAL:HG23	2.02	0.60
2:I:752:HIS:NE2	2:I:856:THR:HG21	2.16	0.60
2:I:926:LEU:O	2:I:1008:ILE:HD11	2.02	0.60
2:I:1848:ALA:HA	2:I:2034:LYS:HD3	1.83	0.60
2:J:281:GLY:HA3	2:J:470:TYR:HE1	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1289:TYR:HB2	2:J:1370:LEU:HD23	1.83	0.60
2:K:1475:LEU:HD23	2:K:1476:ASP:H	1.65	0.60
2:K:1499:LYS:HD3	2:K:1534:GLU:OE1	2.01	0.60
2:K:2057:GLU:HA	2:K:2060:ARG:NH1	2.17	0.60
2:L:448:HIS:HD2	2:L:491:VAL:CG1	2.15	0.60
2:L:779:GLY:O	2:L:780:SER:CB	2.50	0.60
1:B:767:HIS:NE2	1:B:771:LEU:HD23	2.16	0.60
1:B:1078:ILE:HD13	1:B:1352:MET:HG2	1.84	0.60
1:B:1094:LYS:HB3	1:B:1154:LEU:HB2	1.83	0.60
1:B:1108:PRO:HG3	1:B:1141:ARG:NE	2.16	0.60
1:C:430:VAL:O	1:C:434:ILE:HG13	2.02	0.60
1:C:439:ARG:HA	1:C:705:ARG:HG2	1.84	0.60
1:C:619:LYS:HG2	1:C:620:LYS:H	1.67	0.60
1:D:427:ARG:HH12	1:D:492:ILE:CG1	2.12	0.60
1:E:1164:ILE:CD1	1:E:1355:GLN:HG3	2.32	0.60
1:E:1186:VAL:HG23	1:E:1309:ASP:HB2	1.84	0.60
1:E:1280:CYS:HB2	1:E:1626:GLY:HA2	1.83	0.60
1:F:335:LEU:C	1:F:335:LEU:HD12	2.26	0.60
2:G:290:VAL:HG11	2:G:315:LEU:HD13	1.83	0.60
2:G:789:TYR:CE1	2:G:1097:PHE:HB3	2.37	0.60
2:G:1750:GLY:O	2:G:1755:LYS:HE3	2.01	0.60
2:H:117:ASN:OD1	2:H:561:ARG:HG3	2.02	0.60
2:I:485:ASP:HB3	2:I:488:PRO:CD	2.30	0.60
2:J:240:THR:O	2:J:244:VAL:HG23	2.02	0.60
2:J:705:TYR:HA	2:J:709:LEU:HD21	1.83	0.60
2:J:857:VAL:HG13	2:J:876:TRP:NE1	2.17	0.60
2:K:1593:SER:OG	2:K:1596:PHE:HB2	2.02	0.60
2:L:549:ASN:HD22	2:L:550:THR:N	2.00	0.60
2:L:1561:ILE:HB	2:L:1655:HIS:HB3	1.83	0.60
2:L:1679:LEU:O	2:L:1680:GLN:HG3	2.02	0.60
1:B:1363:MET:HE1	1:B:1373:VAL:CG2	2.32	0.59
1:E:560:LYS:O	1:E:564:LEU:HB2	2.02	0.59
1:E:1702:ARG:CG	1:E:1702:ARG:NH1	2.52	0.59
1:F:1432:ILE:HD11	1:F:1481:GLN:HB3	1.84	0.59
2:G:726:GLN:O	2:G:730:ILE:HG12	2.01	0.59
2:G:1362:PHE:N	2:G:1363:PRO:HD2	2.17	0.59
2:H:1203:TYR:O	2:H:1219:VAL:HA	2.02	0.59
2:H:1475:LEU:HD23	2:H:1476:ASP:H	1.66	0.59
2:J:298:ALA:CB	2:J:304:PHE:HA	2.31	0.59
2:J:300:THR:H	2:J:303:GLU:HB3	1.66	0.59
2:J:930:THR:CG2	2:J:933:GLU:H	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:240:THR:O	2:K:244:VAL:HG23	2.02	0.59
2:K:705:TYR:HA	2:K:709:LEU:HD21	1.84	0.59
2:K:1361:ILE:HG22	2:K:1435:TYR:OH	2.02	0.59
2:L:1374:VAL:CG2	2:L:1436:ARG:HE	2.15	0.59
2:L:1659:ILE:HG13	2:L:1664:ILE:HD11	1.82	0.59
1:A:535:TYR:CE1	1:F:580:ASN:HB3	2.37	0.59
1:B:907:PHE:O	1:B:909:PRO:HD3	2.02	0.59
1:D:673:LEU:O	1:D:678:ALA:HB3	2.01	0.59
1:D:1218:VAL:HG13	1:D:1301:VAL:HG13	1.85	0.59
1:D:1364:THR:HG22	1:D:1366:GLN:H	1.66	0.59
1:E:383:TYR:O	1:E:387:ILE:HG23	2.02	0.59
1:F:1078:ILE:HD13	1:F:1352:MET:HG2	1.84	0.59
1:F:1534:GLU:HG2	1:F:1625:PHE:CE1	2.38	0.59
2:G:713:HIS:CD2	2:G:740:ILE:HD13	2.37	0.59
2:G:1114:GLU:HB3	2:G:1169:TYR:HB3	1.83	0.59
2:G:1239:ASP:OD1	2:G:1240:ASN:N	2.35	0.59
2:G:1370:LEU:HA	2:G:1435:TYR:HE2	1.67	0.59
2:G:1833:PHE:CZ	2:G:2039:TYR:HB2	2.35	0.59
2:G:1915:LEU:HD21	2:G:1939:LEU:HD22	1.84	0.59
2:H:228:LEU:O	2:H:232:HIS:HD2	1.85	0.59
2:J:493:MET:HA	2:J:497:ASP:HB2	1.83	0.59
2:J:529:ASN:HD22	2:J:552:VAL:HG22	1.67	0.59
2:K:159:PHE:CZ	2:K:275:LEU:HD21	2.37	0.59
2:K:610:PRO:CD	3:K:2101:FMN:H6	2.32	0.59
2:K:1804:GLN:HG2	2:K:1865:LEU:HD23	1.83	0.59
2:K:1985:GLN:HG3	2:K:1986:PRO:CD	2.27	0.59
2:L:884:PHE:HE2	2:L:1039:GLU:HA	1.66	0.59
2:L:1223:SER:CB	2:L:1226:ALA:HB3	2.32	0.59
2:L:1887:ASN:H	2:L:1994:ALA:HB1	1.68	0.59
1:A:27:ARG:HG3	2:G:2045:ALA:HB2	1.83	0.59
1:A:1504:ARG:NH1	1:A:1504:ARG:CG	2.52	0.59
1:B:970:LEU:HD21	1:B:1658:VAL:HG11	1.84	0.59
1:C:435:GLN:HG2	1:C:701:ARG:O	2.03	0.59
1:C:1081:ILE:HA	1:C:1163:GLN:HE22	1.66	0.59
1:C:1107:GLU:HG3	1:C:1108:PRO:HD2	1.85	0.59
1:D:421:ARG:HH22	1:D:1613:LYS:CG	2.15	0.59
1:E:18:LEU:HD21	2:K:1844:LEU:HD11	1.84	0.59
1:F:1089:TYR:CE1	1:F:1312:GLU:HG3	2.38	0.59
1:F:1108:PRO:HG3	1:F:1141:ARG:NE	2.15	0.59
2:G:172:ILE:HD11	2:G:501:TRP:CZ2	2.35	0.59
2:G:529:ASN:HD22	2:G:552:VAL:HG22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:926:LEU:O	2:G:1008:ILE:HD11	2.03	0.59
2:G:1947:LYS:HE3	2:G:1948:MET:HE3	1.84	0.59
2:H:388:ASN:C	2:H:388:ASN:HD22	2.11	0.59
2:H:868:LEU:O	2:H:870:THR:HG23	2.03	0.59
2:H:1888:PRO:HG3	2:H:1900:LEU:HD12	1.83	0.59
2:I:126:VAL:HG12	2:I:127:ALA:H	1.67	0.59
2:I:2054:TYR:HA	2:I:2057:GLU:OE1	2.02	0.59
2:J:1239:ASP:OD1	2:J:1240:ASN:N	2.35	0.59
2:J:1679:LEU:O	2:J:1680:GLN:HG3	2.02	0.59
2:L:2044:THR:HG21	2:L:2054:TYR:CZ	2.37	0.59
1:A:553:ARG:NH2	1:A:567:ASN:HD21	2.00	0.59
1:B:1081:ILE:HA	1:B:1163:GLN:HE22	1.67	0.59
1:C:843:VAL:HG13	1:C:900:ASP:HA	1.84	0.59
1:E:498:THR:HG22	1:E:508:TYR:HD1	1.67	0.59
1:E:532:ILE:HD11	1:E:866:LEU:O	2.01	0.59
1:F:11:TYR:O	1:F:15:VAL:HG23	2.02	0.59
1:F:22:PHE:HE2	2:L:2017:PHE:CG	2.21	0.59
1:F:843:VAL:HG13	1:F:900:ASP:HA	1.85	0.59
1:F:1007:ASN:ND2	1:F:1031:MET:HE1	2.18	0.59
2:G:1361:ILE:HG22	2:G:1435:TYR:OH	2.02	0.59
2:H:612:THR:HG22	2:H:612:THR:O	2.02	0.59
2:H:766:SER:O	2:H:770:LYS:HG3	2.01	0.59
2:H:1519:THR:O	2:H:1520:LYS:HB2	1.99	0.59
2:I:616:ASP:OD2	2:I:823:HIS:CE1	2.55	0.59
2:I:1175:MET:HA	2:I:1274:ILE:CD1	2.31	0.59
2:I:1519:THR:O	2:I:1520:LYS:HB2	2.03	0.59
2:I:2057:GLU:HA	2:I:2060:ARG:NH1	2.17	0.59
2:J:928:ASP:HA	2:J:1007:LEU:HD23	1.85	0.59
2:J:1356:ALA:HB3	2:J:1397:THR:HG22	1.83	0.59
2:J:1845:VAL:HG21	2:J:1856:LEU:HD22	1.82	0.59
2:J:2013:GLY:O	2:J:2016:PRO:HD2	2.02	0.59
2:K:1846:ALA:HB3	2:K:1847:LEU:HD12	1.84	0.59
2:L:752:HIS:CE1	2:L:847:TYR:HE2	2.19	0.59
2:L:1499:LYS:HG3	2:L:1500:ASN:N	2.16	0.59
1:B:926:SER:O	1:B:930:GLN:HG2	2.02	0.59
1:C:47:ILE:HB	2:I:1694:PHE:CD1	2.38	0.59
1:D:1161:ALA:O	1:D:1163:GLN:HG3	2.03	0.59
1:E:335:LEU:C	1:E:335:LEU:HD12	2.27	0.59
1:E:421:ARG:HH22	1:E:1613:LYS:CG	2.14	0.59
1:E:1032:MET:HE2	1:E:1165:PRO:HB3	1.84	0.59
1:E:1183:VAL:HG11	1:E:1187:THR:HG21	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:18:LEU:HD21	2:L:1844:LEU:HD11	1.84	0.59
2:H:854:VAL:HG21	2:H:1070:PRO:HA	1.83	0.59
2:H:937:ARG:NE	2:H:941:LEU:HD11	2.18	0.59
2:I:154:TYR:CZ	2:I:561:ARG:NH1	2.71	0.59
2:I:646:SER:HA	2:I:649:GLU:HG2	1.84	0.59
2:I:779:GLY:O	2:I:780:SER:CB	2.49	0.59
2:I:1335:PHE:CE1	2:I:1629:ILE:CD1	2.85	0.59
2:J:501:TRP:NE1	2:J:528:THR:HG22	2.10	0.59
2:J:674:ILE:HD13	2:J:705:TYR:HE2	1.65	0.59
2:J:788:THR:HG22	2:J:1094:HIS:CE1	2.37	0.59
2:K:626:TYR:N	2:K:656:ARG:HH22	2.01	0.59
2:K:1115:TYR:HB3	2:K:1267:PRO:HB3	1.83	0.59
2:L:979:LEU:HD21	2:L:999:ALA:HB3	1.83	0.59
2:L:1203:TYR:O	2:L:1219:VAL:HA	2.03	0.59
1:A:612:ILE:HD11	1:F:579:MET:HB3	1.84	0.59
1:B:973:TRP:NE1	1:B:1648:LYS:HB2	2.17	0.59
1:D:542:GLN:HB3	1:D:579:MET:HE2	1.83	0.59
1:D:1280:CYS:HB2	1:D:1626:GLY:HA2	1.84	0.59
1:E:1307:PHE:HA	1:E:1568:ALA:HB2	1.84	0.59
1:F:1363:MET:HE1	1:F:1373:VAL:CG2	2.30	0.59
1:F:1602:PHE:N	1:F:1602:PHE:CD2	2.70	0.59
2:G:196:PHE:CD2	2:G:266:LYS:HB3	2.38	0.59
2:G:331:LEU:HD22	2:G:396:ILE:HG13	1.84	0.59
2:G:1290:TYR:CD1	2:G:1299:VAL:HG12	2.37	0.59
2:H:934:VAL:O	2:H:938:MET:HG3	2.02	0.59
2:I:856:THR:HA	2:I:865:ILE:O	2.02	0.59
2:I:1259:LEU:HD23	2:I:1288:PHE:HB2	1.83	0.59
2:I:1619:LEU:O	2:I:1623:TRP:HB2	2.03	0.59
2:K:300:THR:H	2:K:303:GLU:HB3	1.68	0.59
2:K:762:LEU:HD22	2:K:802:TYR:CD2	2.31	0.59
2:K:903:ILE:HD11	2:K:914:TRP:CE2	2.38	0.59
2:L:489:GLU:O	2:L:493:MET:HG3	2.02	0.59
2:L:626:TYR:N	2:L:656:ARG:HH22	2.01	0.59
2:L:938:MET:HB3	2:L:959:THR:HG22	1.84	0.59
2:L:1745:LEU:HB3	2:L:1799:LEU:HD22	1.84	0.59
1:A:999:LEU:HD11	1:A:1575:ASN:HB3	1.85	0.59
1:B:383:TYR:O	1:B:387:ILE:HG23	2.03	0.59
1:B:1307:PHE:HA	1:B:1568:ALA:HB2	1.85	0.59
1:C:1493:PHE:CE2	1:C:1509:THR:HG22	2.37	0.59
1:E:1336:GLU:O	1:E:1340:MET:HG2	2.01	0.59
1:F:811:ASP:HB3	1:F:814:TYR:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1565:PRO:O	1:F:1566:LYS:C	2.46	0.59
2:G:228:LEU:O	2:G:232:HIS:HD2	1.84	0.59
2:H:77:ALA:O	2:H:139:ALA:HB1	2.02	0.59
2:H:190:TYR:CD1	2:H:201:ILE:HD13	2.33	0.59
2:H:1289:TYR:CG	2:H:1370:LEU:HD23	2.38	0.59
2:J:411:PRO:HD2	2:J:414:LEU:CD1	2.32	0.59
2:J:796:TRP:CZ2	2:J:805:MET:HE2	2.38	0.59
2:J:926:LEU:O	2:J:1008:ILE:HD11	2.03	0.59
2:K:583:THR:OG1	2:K:587:GLN:HB2	2.03	0.59
2:K:926:LEU:O	2:K:1008:ILE:HD11	2.03	0.59
2:K:1764:MET:HB3	2:K:1780:ILE:CD1	2.32	0.59
2:L:1833:PHE:CZ	2:L:2039:TYR:HB2	2.37	0.59
1:A:1186:VAL:HG23	1:A:1309:ASP:HB2	1.85	0.59
1:B:989:ASN:H	1:B:1491:ASN:ND2	1.86	0.59
1:D:18:LEU:HD21	2:J:1844:LEU:CD1	2.33	0.59
1:F:767:HIS:NE2	1:F:771:LEU:HD23	2.17	0.59
1:F:1638:HIS:ND1	1:F:1639:PRO:HD2	2.18	0.59
2:G:1097:PHE:HD2	2:G:1100:ARG:HH12	1.49	0.59
2:G:1985:GLN:HG3	2:G:1986:PRO:CD	2.25	0.59
2:H:1289:TYR:CB	2:H:1370:LEU:HD23	2.32	0.59
2:H:1659:ILE:HG13	2:H:1664:ILE:HD11	1.84	0.59
2:J:515:ASP:HB3	2:J:541:LEU:HD23	1.84	0.59
2:J:1846:ALA:HB3	2:J:1847:LEU:HD12	1.84	0.59
2:J:1976:CYS:O	2:J:1980:THR:HG23	2.03	0.59
2:J:2054:TYR:HA	2:J:2057:GLU:OE1	2.02	0.59
2:K:459:LYS:HB3	2:K:485:ASP:OD1	2.03	0.59
2:K:616:ASP:OD2	2:K:823:HIS:CE1	2.54	0.59
2:K:779:GLY:HA3	2:K:811:MET:CE	2.33	0.59
2:L:300:THR:H	2:L:303:GLU:HB3	1.67	0.59
2:L:515:ASP:HB3	2:L:541:LEU:HD23	1.85	0.59
2:L:1305:LEU:H	2:L:1305:LEU:HD12	1.67	0.59
1:A:445:LEU:HD11	1:A:481:LEU:HD11	1.84	0.59
1:A:1381:MET:HG2	1:A:1382:THR:N	2.15	0.59
1:B:435:GLN:HG2	1:B:701:ARG:O	2.02	0.59
1:D:15:VAL:HG11	2:J:2022:LEU:HD21	1.84	0.59
1:D:926:SER:O	1:D:930:GLN:HG2	2.03	0.59
1:D:1505:GLY:O	1:D:1509:THR:HG23	2.03	0.59
1:E:81:TYR:CE1	2:K:1821:MET:HE3	2.37	0.59
1:F:1307:PHE:HA	1:F:1568:ALA:HB2	1.85	0.59
1:F:1504:ARG:NH1	1:F:1504:ARG:CG	2.50	0.59
2:G:298:ALA:CB	2:G:304:PHE:HA	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:300:THR:H	2:G:303:GLU:HB3	1.66	0.59
2:G:580:LEU:HD12	2:G:1103:TYR:CE2	2.37	0.59
2:H:459:LYS:HB3	2:H:485:ASP:OD1	2.02	0.59
2:H:529:ASN:HD22	2:H:552:VAL:HG22	1.67	0.59
2:H:1602:LEU:HD13	2:H:1606:ILE:CD1	2.33	0.59
2:H:1721:ARG:HH21	2:H:1853:ILE:HD12	1.67	0.59
2:H:1833:PHE:CZ	2:H:2039:TYR:HB2	2.38	0.59
2:H:1947:LYS:HE3	2:H:1948:MET:HE3	1.84	0.59
2:H:2044:THR:HG21	2:H:2054:TYR:CZ	2.38	0.59
2:I:251:PRO:CG	2:I:316:PHE:HA	2.31	0.59
2:I:1203:TYR:O	2:I:1219:VAL:HA	2.02	0.59
2:I:1938:THR:O	2:I:1942:VAL:HG23	2.02	0.59
2:I:1948:MET:HA	2:I:1948:MET:CE	2.25	0.59
2:J:448:HIS:HD2	2:J:491:VAL:HG12	1.67	0.59
2:J:1324:PHE:HA	2:J:1583:VAL:HG11	1.85	0.59
2:J:1594:ARG:NH1	2:J:1594:ARG:CG	2.58	0.59
2:K:580:LEU:HD12	2:K:1103:TYR:CE2	2.38	0.59
2:K:718:PRO:HG3	2:K:727:VAL:HG21	1.85	0.59
2:K:1610:MET:HA	2:K:1610:MET:CE	2.33	0.59
2:L:215:TRP:O	2:L:218:VAL:HG22	2.03	0.59
2:L:1871:VAL:HG21	2:L:2003:VAL:HA	1.85	0.59
2:L:2054:TYR:HA	2:L:2057:GLU:OE1	2.03	0.59
1:A:1218:VAL:HG13	1:A:1301:VAL:HG13	1.84	0.59
1:B:30:GLU:HB2	2:H:2045:ALA:CB	2.33	0.59
1:B:445:LEU:HD11	1:B:481:LEU:HD11	1.85	0.59
1:B:1001:GLU:O	1:B:1007:ASN:HA	2.03	0.59
1:B:1078:ILE:CG2	1:B:1352:MET:HE3	2.33	0.59
1:B:1273:ILE:CD1	1:D:1630:LYS:HD2	2.33	0.59
1:B:1364:THR:HG22	1:B:1366:GLN:H	1.67	0.59
1:C:1047:TYR:CZ	1:C:1058:PRO:HB3	2.38	0.59
1:D:2:ARG:HB2	1:D:5:VAL:HB	1.84	0.59
1:D:22:PHE:O	2:J:2006:HIS:HA	2.03	0.59
1:E:1490:GLY:O	1:E:1509:THR:HB	2.03	0.59
2:G:1475:LEU:HD23	2:G:1476:ASP:H	1.68	0.59
2:H:317:TRP:O	2:H:321:ARG:HG2	2.03	0.59
2:H:779:GLY:HA3	2:H:811:MET:HE2	1.85	0.59
2:H:1067:LEU:HD12	2:H:1067:LEU:N	2.18	0.59
2:I:300:THR:H	2:I:303:GLU:HB3	1.67	0.59
2:K:779:GLY:HA3	2:K:811:MET:HE2	1.85	0.59
2:K:1356:ALA:HB3	2:K:1397:THR:HG22	1.83	0.59
2:K:1475:LEU:HD11	2:K:1483:LEU:HD11	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1729:ASN:O	2:K:1757:ILE:HG23	2.03	0.59
2:L:788:THR:HG22	2:L:1094:HIS:CE1	2.37	0.59
2:L:791:TYR:HA	2:L:796:TRP:CD1	2.37	0.59
1:A:962:ASN:HB3	2:G:969:ARG:HD2	1.84	0.58
1:A:1108:PRO:HG3	1:A:1141:ARG:NE	2.18	0.58
1:B:1493:PHE:CE2	1:B:1509:THR:HG22	2.38	0.58
1:C:1007:ASN:ND2	1:C:1031:MET:HE1	2.18	0.58
1:D:827:ARG:NH1	1:D:831:GLU:OE2	2.36	0.58
1:D:1020:PHE:CE2	1:D:1028:MET:HG3	2.38	0.58
1:D:1081:ILE:HA	1:D:1163:GLN:HE22	1.68	0.58
1:D:1565:PRO:O	1:D:1566:LYS:C	2.46	0.58
1:E:1113:LYS:O	1:E:1117:GLU:HG3	2.03	0.58
1:F:433:CYS:O	1:F:437:MET:HG3	2.03	0.58
1:F:905:LEU:HD22	1:F:911:LEU:HD21	1.85	0.58
1:F:968:PRO:HD2	1:F:1374:PRO:HB3	1.85	0.58
1:F:1106:LEU:HD23	1:F:1107:GLU:H	1.68	0.58
2:G:126:VAL:HG12	2:G:127:ALA:H	1.68	0.58
2:G:779:GLY:O	2:G:780:SER:CB	2.51	0.58
2:G:1093:ASP:O	2:G:1097:PHE:HD1	1.85	0.58
2:G:1897:GLU:HG2	2:G:1901:GLN:NE2	2.17	0.58
2:H:856:THR:HA	2:H:865:ILE:O	2.03	0.58
2:I:31:LEU:HD13	2:I:75:LEU:HD21	1.85	0.58
2:I:459:LYS:HB3	2:I:485:ASP:OD1	2.03	0.58
2:I:779:GLY:HA3	2:I:811:MET:CE	2.33	0.58
2:I:1239:ASP:OD1	2:I:1240:ASN:N	2.31	0.58
2:J:1866:THR:HA	2:J:1869:VAL:HG22	1.84	0.58
2:K:215:TRP:CE3	2:K:216:ASP:N	2.68	0.58
2:K:540:ILE:HD13	2:K:557:GLU:HB3	1.85	0.58
2:K:686:PRO:HG3	2:K:1185:HIS:O	2.02	0.58
2:K:827:GLN:NE2	2:K:827:GLN:H	2.00	0.58
2:K:1679:LEU:O	2:K:1680:GLN:HG3	2.03	0.58
2:L:251:PRO:CG	2:L:316:PHE:HA	2.33	0.58
2:L:352:SER:HB2	2:L:433:LEU:HD21	1.84	0.58
2:L:854:VAL:CG2	2:L:1070:PRO:HA	2.33	0.58
2:L:1466:VAL:O	2:L:1470:LYS:HG2	2.03	0.58
2:L:1947:LYS:HE3	2:L:1948:MET:HE3	1.85	0.58
2:L:1976:CYS:O	2:L:1980:THR:HG23	2.04	0.58
1:A:1086:PHE:CE2	1:A:1310:PHE:HD2	2.21	0.58
1:B:731:ASP:HB3	1:B:735:GLY:HA3	1.85	0.58
1:B:1573:MET:HE2	1:B:1622:VAL:HG23	1.85	0.58
1:C:942:VAL:O	2:I:1536:HIS:HB2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:43:ARG:NH1	2:J:1687:GLN:NE2	2.50	0.58
1:D:970:LEU:HD21	1:D:1658:VAL:HG11	1.84	0.58
1:D:1156:PHE:CZ	1:D:1316:TYR:HA	2.38	0.58
2:G:388:ASN:HD22	2:G:388:ASN:C	2.11	0.58
2:G:581:VAL:HG11	2:G:1113:ILE:HD11	1.85	0.58
2:G:1305:LEU:H	2:G:1305:LEU:HD12	1.68	0.58
2:G:1517:LEU:HB2	2:G:1521:GLU:HB2	1.85	0.58
2:H:541:LEU:HG	2:H:552:VAL:HG11	1.85	0.58
2:I:298:ALA:CB	2:I:304:PHE:HA	2.32	0.58
2:I:1289:TYR:HB2	2:I:1370:LEU:HD23	1.85	0.58
2:I:1499:LYS:HD3	2:I:1534:GLU:OE1	2.03	0.58
2:I:1537:GLY:O	2:I:1539:PRO:HD3	2.02	0.58
2:I:1721:ARG:HH21	2:I:1853:ILE:HD12	1.66	0.58
2:J:818:THR:HA	2:J:829:LYS:HG2	1.85	0.58
2:J:1938:THR:O	2:J:1942:VAL:HG23	2.02	0.58
2:K:1871:VAL:HG21	2:K:2004:PRO:HD3	1.84	0.58
2:L:472:THR:HG23	2:L:499:VAL:HA	1.85	0.58
2:L:1475:LEU:HD23	2:L:1476:ASP:H	1.67	0.58
1:A:619:LYS:HG2	1:A:620:LYS:H	1.69	0.58
1:A:1336:GLU:O	1:A:1340:MET:HG2	2.02	0.58
1:B:430:VAL:O	1:B:434:ILE:HG13	2.04	0.58
1:C:628:TYR:CZ	1:C:630:LYS:HG2	2.38	0.58
1:D:12:THR:O	1:D:16:GLU:HG2	2.03	0.58
1:D:435:GLN:HG2	1:D:701:ARG:O	2.03	0.58
1:D:701:ARG:NH1	1:D:1610:ARG:NH2	2.51	0.58
1:F:541:VAL:HG21	1:F:585:MET:HE2	1.84	0.58
1:F:628:TYR:CZ	1:F:630:LYS:HG2	2.38	0.58
1:F:1647:ASP:HB2	1:F:1649:ALA:HB3	1.85	0.58
2:G:1015:HIS:NE2	2:G:1019:LEU:HD11	2.17	0.58
2:H:641:MET:HE2	2:H:676:LEU:HD12	1.86	0.58
2:H:779:GLY:HA3	2:H:811:MET:CE	2.34	0.58
2:H:1370:LEU:HA	2:H:1435:TYR:HE2	1.68	0.58
2:H:1750:GLY:O	2:H:1755:LYS:HE3	2.03	0.58
2:I:305:ALA:O	2:I:309:LYS:HD3	2.03	0.58
2:I:549:ASN:HD22	2:I:550:THR:N	2.00	0.58
2:I:765:TYR:CB	2:I:805:MET:HE3	2.32	0.58
2:I:1887:ASN:H	2:I:1994:ALA:HB1	1.66	0.58
2:J:99:LEU:O	2:J:103:LYS:HG3	2.03	0.58
2:J:856:THR:HA	2:J:865:ILE:O	2.04	0.58
2:K:48:LEU:HD13	2:K:83:VAL:HG22	1.85	0.58
2:K:117:ASN:OD1	2:K:561:ARG:HG3	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1116:PHE:O	2:K:1270:GLY:HA3	2.03	0.58
2:K:1305:LEU:HD23	2:K:1366:ILE:HD11	1.84	0.58
2:K:1888:PRO:HG3	2:K:1900:LEU:HD12	1.85	0.58
2:L:726:GLN:O	2:L:730:ILE:HG12	2.03	0.58
2:L:794:GLY:O	2:L:804:PRO:HA	2.03	0.58
2:L:1115:TYR:HB3	2:L:1267:PRO:CB	2.33	0.58
2:L:1770:ASN:HB2	2:L:1776:LYS:CE	2.30	0.58
1:A:450:TYR:CE1	1:A:1551:ASN:HB2	2.38	0.58
1:B:579:MET:HE3	1:E:907:PHE:CE1	2.38	0.58
1:B:682:VAL:HG11	1:B:695:TYR:CE2	2.39	0.58
1:B:715:ASN:HD22	1:B:717:GLY:H	1.51	0.58
1:B:1148:LEU:HD21	1:D:1150:ILE:HG12	1.85	0.58
1:C:365:GLN:HG3	1:D:365:GLN:HG3	1.84	0.58
1:C:445:LEU:HD11	1:C:481:LEU:HD11	1.85	0.58
1:D:335:LEU:C	1:D:335:LEU:HD12	2.28	0.58
1:D:1443:LEU:HD11	1:D:1470:ARG:HB3	1.84	0.58
1:D:1574:LEU:CD1	1:D:1622:VAL:HG11	2.33	0.58
1:F:970:LEU:HD21	1:F:1658:VAL:HG11	1.84	0.58
2:G:376:ARG:CB	2:G:394:PRO:HG2	2.33	0.58
2:G:549:ASN:HD22	2:G:550:THR:N	2.01	0.58
2:G:856:THR:HG23	2:G:866:HIS:CD2	2.39	0.58
2:H:215:TRP:O	2:H:218:VAL:HG22	2.03	0.58
2:H:674:ILE:HD13	2:H:705:TYR:HE2	1.67	0.58
2:H:726:GLN:O	2:H:730:ILE:HG12	2.03	0.58
2:I:867:LYS:HD3	2:I:1065:CYS:SG	2.43	0.58
2:J:1181:PHE:CE1	2:J:1191:PRO:HD2	2.38	0.58
2:J:1804:GLN:HG2	2:J:1865:LEU:HD23	1.85	0.58
2:K:962:PHE:O	2:K:966:VAL:HG23	2.03	0.58
2:K:1204:VAL:HG22	2:K:1219:VAL:HG22	1.84	0.58
2:K:1764:MET:HE3	2:K:1865:LEU:CD1	2.34	0.58
2:K:1866:THR:HA	2:K:1869:VAL:HG22	1.85	0.58
2:K:1947:LYS:HE3	2:K:1948:MET:HE3	1.85	0.58
2:L:240:THR:O	2:L:244:VAL:HG23	2.04	0.58
2:L:374:GLU:CA	2:L:377:HIS:HD2	2.09	0.58
2:L:937:ARG:NE	2:L:941:LEU:HD11	2.18	0.58
1:A:70:ALA:O	2:I:403:LEU:HD12	2.04	0.58
1:A:767:HIS:HB2	1:A:813:LEU:HD12	1.84	0.58
1:A:1587:PRO:HA	1:A:1611:SER:OG	2.04	0.58
1:C:767:HIS:HB2	1:C:813:LEU:HD12	1.85	0.58
1:C:1432:ILE:HD11	1:C:1481:GLN:HB3	1.84	0.58
1:C:1495:ARG:NH1	1:F:992:LYS:HE2	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:983:GLN:HB3	1:D:1418:ILE:HD13	1.85	0.58
1:D:1142:LEU:H	1:D:1142:LEU:HD12	1.67	0.58
2:G:215:TRP:O	2:G:218:VAL:HG22	2.04	0.58
2:G:1499:LYS:HD3	2:G:1534:GLU:OE1	2.03	0.58
2:G:1721:ARG:HH21	2:G:1853:ILE:HD12	1.67	0.58
2:H:626:TYR:N	2:H:656:ARG:HH22	2.01	0.58
2:H:713:HIS:CD2	2:H:740:ILE:HD13	2.38	0.58
2:H:1305:LEU:HD11	2:H:1365:LYS:HD2	1.84	0.58
2:J:937:ARG:NE	2:J:941:LEU:HD11	2.19	0.58
2:J:1888:PRO:HG3	2:J:1900:LEU:HD12	1.84	0.58
2:K:609:THR:O	2:K:613:VAL:HB	2.03	0.58
2:K:796:TRP:CZ2	2:K:805:MET:HE2	2.38	0.58
2:L:723:ALA:O	2:L:726:GLN:HB2	2.04	0.58
2:L:1361:ILE:HG22	2:L:1435:TYR:OH	2.03	0.58
1:B:1386:THR:HB	1:D:1269:SER:O	2.04	0.58
1:C:970:LEU:HD21	1:C:1658:VAL:HG11	1.85	0.58
1:C:999:LEU:HD11	1:C:1575:ASN:HB3	1.86	0.58
1:E:716:GLN:HB3	1:E:769:ILE:HG23	1.85	0.58
1:E:1493:PHE:HE2	1:E:1509:THR:HG22	1.65	0.58
1:F:1310:PHE:CE1	1:F:1315:SER:HB2	2.38	0.58
2:G:1175:MET:HA	2:G:1274:ILE:CD1	2.33	0.58
2:G:1521:GLU:OE2	2:G:2028:THR:CG2	2.51	0.58
2:G:1896:THR:HG22	2:G:1897:GLU:N	2.17	0.58
2:H:384:ASN:HB3	2:H:527:LEU:HD11	1.85	0.58
2:H:1015:HIS:NE2	2:H:1019:LEU:HD11	2.18	0.58
2:H:1896:THR:HG22	2:H:1897:GLU:N	2.17	0.58
2:I:215:TRP:O	2:I:218:VAL:HG22	2.03	0.58
2:I:857:VAL:CG1	2:I:876:TRP:NE1	2.67	0.58
2:I:1053:ILE:HD11	2:I:1061:VAL:HG13	1.85	0.58
2:I:1694:PHE:HD2	2:I:1843:ALA:HB2	1.69	0.58
2:I:1802:ALA:HB1	2:I:1804:GLN:NE2	2.15	0.58
2:J:600:VAL:HG22	2:J:601:PRO:HD2	1.84	0.58
2:J:857:VAL:CG1	2:J:876:TRP:NE1	2.67	0.58
2:J:1008:ILE:HD12	2:J:1013:VAL:HG22	1.85	0.58
2:K:331:LEU:HD22	2:K:396:ILE:HG13	1.85	0.58
2:K:350:MET:HG3	2:K:435:ILE:CG2	2.33	0.58
2:K:595:SER:CB	2:K:602:PRO:HG3	2.26	0.58
2:K:663:ILE:H	2:K:663:ILE:HD12	1.69	0.58
2:K:765:TYR:CG	2:K:805:MET:HE3	2.39	0.58
2:L:459:LYS:HB3	2:L:485:ASP:OD1	2.04	0.58
2:L:661:ASN:HD21	3:L:2101:FMN:HN3	1.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1478:GLN:HG2	2:L:1523:ILE:HG21	1.85	0.58
2:L:1537:GLY:O	2:L:1539:PRO:HD3	2.03	0.58
1:B:1078:ILE:HB	1:B:1338:GLY:HA2	1.84	0.58
1:C:1323:ALA:HB1	1:C:1351:PHE:HE2	1.68	0.58
1:D:356:LYS:NZ	1:F:1143:ARG:HH21	2.02	0.58
1:D:445:LEU:HD11	1:D:481:LEU:HD11	1.86	0.58
1:D:503:ARG:HA	1:D:933:ILE:HD11	1.85	0.58
1:D:613:PRO:O	1:D:614:PHE:HB2	2.04	0.58
1:D:1647:ASP:HB2	1:D:1649:ALA:HB3	1.85	0.58
1:E:959:PRO:HB3	2:K:972:SER:HA	1.85	0.58
1:E:1565:PRO:O	1:E:1566:LYS:C	2.47	0.58
1:F:715:ASN:HD22	1:F:717:GLY:H	1.52	0.58
1:F:1081:ILE:HA	1:F:1163:GLN:HE22	1.68	0.58
1:F:1307:PHE:HB3	1:F:1357:CYS:HB2	1.85	0.58
1:F:1367:LEU:HD22	1:F:1371:MET:HG3	1.85	0.58
2:G:493:MET:HA	2:G:497:ASP:HB2	1.85	0.58
2:G:884:PHE:HE2	2:G:1039:GLU:HA	1.69	0.58
2:I:663:ILE:H	2:I:663:ILE:CD1	2.17	0.58
2:I:705:TYR:HA	2:I:709:LEU:HD21	1.85	0.58
2:I:1594:ARG:NH1	2:I:1594:ARG:CG	2.58	0.58
2:I:2052:LYS:HB3	2:I:2074:TRP:CD2	2.39	0.58
2:J:1203:TYR:O	2:J:1219:VAL:HA	2.03	0.58
2:J:1764:MET:HB3	2:J:1780:ILE:CD1	2.33	0.58
2:K:228:LEU:O	2:K:232:HIS:HD2	1.87	0.58
2:K:581:VAL:HG11	2:K:1113:ILE:HD11	1.86	0.58
2:K:857:VAL:CG1	2:K:876:TRP:CD1	2.86	0.58
2:K:1179:GLU:HA	2:K:1190:ASN:CB	2.33	0.58
2:K:1519:THR:O	2:K:1520:LYS:HB2	2.04	0.58
2:K:2054:TYR:HA	2:K:2057:GLU:OE1	2.04	0.58
2:L:298:ALA:CB	2:L:304:PHE:HA	2.33	0.58
2:L:1750:GLY:O	2:L:1755:LYS:HE3	2.03	0.58
2:L:1881:TYR:CB	2:L:2004:PRO:HG3	2.34	0.58
1:A:342:ILE:HD11	1:D:342:ILE:HD11	1.86	0.58
1:B:827:ARG:NH1	1:B:831:GLU:OE2	2.37	0.58
1:B:999:LEU:HD11	1:B:1575:ASN:HB3	1.85	0.58
1:C:1078:ILE:HB	1:C:1338:GLY:HA2	1.83	0.58
1:E:1426:GLU:HA	1:E:1429:ARG:HB2	1.85	0.58
1:F:29:ILE:HD11	2:L:1922:VAL:C	2.29	0.58
1:F:1323:ALA:HB1	1:F:1351:PHE:HE2	1.69	0.58
2:G:374:GLU:CA	2:G:377:HIS:HD2	2.09	0.58
2:G:783:GLY:HA3	2:G:1075:TYR:CB	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1938:THR:O	2:G:1942:VAL:HG23	2.03	0.58
2:H:1259:LEU:HD23	2:H:1288:PHE:HB2	1.86	0.58
2:H:1883:MET:HB2	2:H:2001:ILE:HD12	1.84	0.58
2:I:81:ALA:HB2	2:I:139:ALA:HA	1.85	0.58
2:I:462:ALA:HB2	2:I:481:LEU:HB2	1.85	0.58
2:I:626:TYR:N	2:I:656:ARG:HH22	2.01	0.58
2:I:1466:VAL:O	2:I:1470:LYS:HG2	2.04	0.58
2:I:1679:LEU:O	2:I:1680:GLN:HG3	2.04	0.58
2:I:1767:GLU:HB2	2:I:2016:PRO:CG	2.20	0.58
2:J:196:PHE:CD2	2:J:266:LYS:HB3	2.39	0.58
2:K:37:VAL:HG12	2:K:38:PRO:O	2.03	0.58
2:K:251:PRO:CG	2:K:316:PHE:HA	2.32	0.58
2:K:376:ARG:CB	2:K:394:PRO:HG2	2.32	0.58
2:K:709:LEU:HD23	2:K:709:LEU:H	1.68	0.58
2:L:1007:LEU:HD12	2:L:1007:LEU:N	2.17	0.58
2:L:1586:ASP:OD1	2:L:1588:ASN:HB2	2.03	0.58
1:A:1534:GLU:HG2	1:A:1625:PHE:CE1	2.38	0.58
1:B:623:PHE:N	1:B:623:PHE:CD2	2.72	0.58
1:C:1113:LYS:O	1:C:1117:GLU:HG3	2.04	0.58
1:D:81:TYR:HE1	2:J:1821:MET:HE3	1.68	0.58
1:D:524:LYS:HB3	1:D:528:GLU:OE2	2.03	0.58
1:D:1108:PRO:HG3	1:D:1141:ARG:NE	2.16	0.58
1:D:1307:PHE:HA	1:D:1568:ALA:HB2	1.85	0.58
2:G:1887:ASN:H	2:G:1994:ALA:HB1	1.68	0.58
2:G:2044:THR:HG21	2:G:2054:TYR:CZ	2.38	0.58
2:H:600:VAL:HG22	2:H:601:PRO:HD2	1.85	0.58
2:H:663:ILE:H	2:H:663:ILE:HD12	1.69	0.58
2:H:1115:TYR:OH	2:H:1173:HIS:HD2	1.87	0.58
2:H:1760:ASN:O	2:H:1764:MET:HG2	2.04	0.58
2:I:37:VAL:HG12	2:I:38:PRO:O	2.03	0.58
2:I:501:TRP:NE1	2:I:528:THR:CG2	2.64	0.58
2:I:540:ILE:HD13	2:I:557:GLU:HB3	1.85	0.58
2:I:1594:ARG:HH11	2:I:1594:ARG:CG	1.90	0.58
2:J:305:ALA:O	2:J:309:LYS:HD3	2.04	0.58
2:J:641:MET:HE2	2:J:676:LEU:HD12	1.85	0.58
2:K:635:TYR:CB	2:K:641:MET:HG3	2.33	0.58
2:K:931:TYR:O	2:K:935:VAL:HG12	2.03	0.58
2:L:1204:VAL:HG22	2:L:1219:VAL:HG22	1.85	0.58
2:L:1760:ASN:O	2:L:1764:MET:HG2	2.04	0.58
1:A:905:LEU:HD23	1:A:908:ILE:HD12	1.85	0.58
1:A:961:ALA:HB2	1:A:1022:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1011:ARG:HD2	1:A:1011:ARG:C	2.28	0.58
1:A:1179:ILE:O	1:A:1183:VAL:HG23	2.03	0.58
1:B:843:VAL:HG13	1:B:900:ASP:HA	1.84	0.58
1:C:569:LEU:HD13	1:D:548:VAL:HG23	1.85	0.58
1:C:1081:ILE:HA	1:C:1163:GLN:NE2	2.19	0.58
1:D:1007:ASN:ND2	1:D:1031:MET:HE1	2.18	0.58
1:D:1094:LYS:HB3	1:D:1154:LEU:HB2	1.85	0.58
1:E:1094:LYS:HB3	1:E:1154:LEU:HB2	1.86	0.58
1:E:1107:GLU:HG3	1:E:1108:PRO:HD2	1.86	0.58
1:E:1310:PHE:CE1	1:E:1315:SER:HB2	2.39	0.58
1:E:1602:PHE:CD2	1:E:1602:PHE:N	2.72	0.58
1:F:767:HIS:HB2	1:F:813:LEU:HD12	1.85	0.58
1:F:1574:LEU:HD12	1:F:1622:VAL:HG11	1.84	0.58
2:G:420:PRO:HG3	2:G:847:TYR:CD1	2.38	0.58
2:G:489:GLU:O	2:G:493:MET:HG3	2.03	0.58
2:G:796:TRP:CZ2	2:G:805:MET:HE2	2.39	0.58
2:G:1053:ILE:HD11	2:G:1061:VAL:HG13	1.86	0.58
2:G:1375:HIS:CE1	2:G:1610:MET:SD	2.94	0.58
2:G:1960:MET:HB3	2:G:1964:ASP:CB	2.34	0.58
2:H:374:GLU:CA	2:H:377:HIS:HD2	2.08	0.58
2:H:930:THR:HG22	2:H:933:GLU:CG	2.33	0.58
2:I:352:SER:HB2	2:I:433:LEU:HD21	1.86	0.58
2:I:388:ASN:C	2:I:388:ASN:HD22	2.11	0.58
2:J:600:VAL:HG13	2:J:601:PRO:CD	2.33	0.58
2:J:794:GLY:O	2:J:804:PRO:HA	2.03	0.58
2:J:911:GLN:NE2	2:J:1065:CYS:H	2.02	0.58
2:K:1067:LEU:HB2	3:K:2101:FMN:HM72	1.86	0.58
2:K:1897:GLU:HG2	2:K:1901:GLN:NE2	2.16	0.58
2:K:2052:LYS:HD3	2:K:2074:TRP:HE1	1.69	0.58
2:L:1375:HIS:ND1	2:L:1610:MET:HG2	2.18	0.58
1:A:1421:ARG:HD2	1:A:1489:PHE:O	2.04	0.57
1:A:1565:PRO:HG3	1:A:1572:TRP:CH2	2.39	0.57
1:C:827:ARG:NH1	1:C:831:GLU:OE2	2.36	0.57
1:D:1005:TRP:HE1	1:D:1561:LEU:HD22	1.68	0.57
1:E:1307:PHE:HB3	1:E:1357:CYS:HB2	1.86	0.57
2:G:60:THR:HG22	2:G:62:GLU:H	1.70	0.57
2:G:515:ASP:HB3	2:G:541:LEU:HD23	1.85	0.57
2:G:856:THR:HA	2:G:865:ILE:O	2.04	0.57
2:G:1259:LEU:HD23	2:G:1288:PHE:HB2	1.86	0.57
2:G:1289:TYR:HB2	2:G:1370:LEU:HD23	1.86	0.57
2:G:1442:TYR:HA	2:G:1445:THR:HG22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1499:LYS:HG3	2:G:1500:ASN:N	2.18	0.57
2:G:1617:ARG:HB2	2:G:1635:TYR:CZ	2.39	0.57
2:H:856:THR:HG23	2:H:866:HIS:CD2	2.39	0.57
2:H:942:MET:CE	2:H:955:LEU:HB3	2.33	0.57
2:I:1833:PHE:CZ	2:I:2039:TYR:HB2	2.39	0.57
2:J:459:LYS:HB3	2:J:485:ASP:OD1	2.03	0.57
2:J:1171:TRP:HB3	2:J:1265:TYR:CE1	2.39	0.57
2:J:1519:THR:O	2:J:1520:LYS:HB2	2.04	0.57
2:J:1751:GLY:O	2:J:1755:LYS:HG2	2.04	0.57
1:A:339:GLN:O	1:A:343:ILE:HG13	2.04	0.57
1:A:560:LYS:O	1:A:564:LEU:HB2	2.03	0.57
1:B:1218:VAL:HG13	1:B:1301:VAL:CG1	2.34	0.57
1:B:1310:PHE:CE1	1:B:1315:SER:HB2	2.39	0.57
1:B:1602:PHE:CD2	1:B:1602:PHE:N	2.71	0.57
1:D:383:TYR:O	1:D:387:ILE:HG23	2.04	0.57
1:D:397:ARG:NH1	1:D:692:THR:HG21	2.18	0.57
1:F:60:THR:HG23	2:L:1922:VAL:HG13	1.85	0.57
2:G:1888:PRO:HG3	2:G:1900:LEU:HD12	1.85	0.57
2:H:134:ILE:HG12	2:H:545:ILE:CD1	2.34	0.57
2:H:290:VAL:HG11	2:H:315:LEU:HD13	1.85	0.57
2:H:298:ALA:CB	2:H:304:PHE:HA	2.34	0.57
2:H:1887:ASN:H	2:H:1994:ALA:HB1	1.69	0.57
2:I:1835:GLY:HA3	2:I:1839:GLY:C	2.29	0.57
2:J:541:LEU:HG	2:J:552:VAL:HG11	1.84	0.57
2:K:215:TRP:O	2:K:218:VAL:HG22	2.04	0.57
2:K:298:ALA:CB	2:K:304:PHE:HA	2.33	0.57
2:K:529:ASN:HD22	2:K:552:VAL:CG2	2.16	0.57
2:K:1370:LEU:HA	2:K:1435:TYR:HE2	1.68	0.57
2:L:48:LEU:HD13	2:L:83:VAL:HG22	1.84	0.57
2:L:930:THR:HG22	2:L:933:GLU:CG	2.34	0.57
1:A:1005:TRP:HE1	1:A:1561:LEU:HD22	1.69	0.57
1:A:1514:ILE:O	1:A:1547:ARG:NH1	2.37	0.57
1:B:617:LEU:HD11	1:B:636:TYR:HB2	1.86	0.57
1:E:926:SER:O	1:E:930:GLN:HG2	2.04	0.57
2:G:775:VAL:O	2:G:777:VAL:HG23	2.04	0.57
2:H:609:THR:O	2:H:613:VAL:HB	2.04	0.57
2:H:796:TRP:CZ2	2:H:805:MET:HE2	2.39	0.57
2:H:930:THR:HG22	2:H:933:GLU:HG3	1.85	0.57
2:I:240:THR:O	2:I:244:VAL:HG23	2.04	0.57
2:I:384:ASN:O	2:I:527:LEU:HD21	2.03	0.57
2:I:609:THR:O	2:I:613:VAL:HB	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1478:GLN:HG2	2:I:1523:ILE:HG21	1.86	0.57
2:J:854:VAL:CG2	2:J:1070:PRO:HA	2.34	0.57
2:J:1114:GLU:HB3	2:J:1169:TYR:HB3	1.84	0.57
2:J:1478:GLN:HG2	2:J:1523:ILE:HG21	1.86	0.57
2:K:290:VAL:HG11	2:K:315:LEU:HD13	1.86	0.57
2:K:1833:PHE:CZ	2:K:2039:TYR:HB2	2.38	0.57
2:L:1239:ASP:OD1	2:L:1240:ASN:N	2.35	0.57
1:A:828:TRP:HE1	1:A:838:THR:HA	1.68	0.57
1:B:1280:CYS:HB2	1:B:1626:GLY:HA2	1.85	0.57
1:C:340:LEU:HD21	1:D:340:LEU:HD21	1.86	0.57
1:D:1106:LEU:HD23	1:D:1107:GLU:H	1.68	0.57
1:D:1113:LYS:O	1:D:1117:GLU:HG3	2.04	0.57
1:F:2:ARG:HB2	1:F:5:VAL:HB	1.86	0.57
2:G:37:VAL:HG12	2:G:38:PRO:O	2.03	0.57
2:G:305:ALA:O	2:G:309:LYS:HD3	2.03	0.57
2:G:930:THR:HG22	2:G:933:GLU:CG	2.34	0.57
2:G:1315:ILE:H	2:G:1315:ILE:HD12	1.69	0.57
2:G:1356:ALA:HB3	2:G:1397:THR:HG22	1.85	0.57
2:H:43:PHE:CD2	2:I:22:ARG:CD	2.87	0.57
2:H:448:HIS:HD2	2:H:491:VAL:HG12	1.68	0.57
2:H:549:ASN:HD22	2:H:550:THR:N	2.01	0.57
2:H:743:TRP:CE2	2:H:761:ILE:HD11	2.38	0.57
2:H:752:HIS:NE2	2:H:856:THR:CG2	2.66	0.57
2:H:1499:LYS:CG	2:H:1500:ASN:N	2.66	0.57
2:H:1976:CYS:O	2:H:1980:THR:HG23	2.04	0.57
2:I:515:ASP:HB3	2:I:541:LEU:HD23	1.86	0.57
2:I:621:THR:HG21	2:I:628:ILE:HD12	1.85	0.57
2:I:911:GLN:NE2	2:I:1065:CYS:H	2.02	0.57
2:I:1178:THR:HG22	2:I:1180:VAL:H	1.70	0.57
2:J:190:TYR:CD1	2:J:201:ILE:HD13	2.35	0.57
2:K:884:PHE:HE2	2:K:1039:GLU:HA	1.69	0.57
2:K:1466:VAL:O	2:K:1470:LYS:HG2	2.04	0.57
2:K:1499:LYS:HG3	2:K:1500:ASN:N	2.19	0.57
2:K:1706:MET:O	2:K:1709:TYR:HB3	2.03	0.57
2:K:1896:THR:HG22	2:K:1897:GLU:N	2.19	0.57
2:K:2052:LYS:HB3	2:K:2074:TRP:CD2	2.40	0.57
2:L:305:ALA:O	2:L:309:LYS:HD3	2.05	0.57
2:L:709:LEU:HD23	2:L:709:LEU:H	1.69	0.57
2:L:875:PHE:CD1	2:L:905:LYS:HD3	2.38	0.57
1:A:2:ARG:HB2	1:A:5:VAL:HB	1.86	0.57
1:B:22:PHE:O	2:H:2006:HIS:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:421:ARG:HH22	1:B:1613:LYS:HB3	1.70	0.57
1:C:23:ALA:HA	2:I:2007:SER:O	2.05	0.57
1:C:47:ILE:HB	2:I:1694:PHE:HD1	1.70	0.57
1:C:1573:MET:HE2	1:C:1622:VAL:HG23	1.85	0.57
1:D:843:VAL:HG13	1:D:900:ASP:HA	1.86	0.57
1:E:445:LEU:HD11	1:E:481:LEU:HD11	1.86	0.57
1:E:731:ASP:HB3	1:E:735:GLY:HA3	1.87	0.57
2:G:240:THR:O	2:G:244:VAL:HG23	2.04	0.57
2:G:613:VAL:CG1	2:G:614:PRO:HD3	2.35	0.57
2:G:743:TRP:CG	2:G:761:ILE:HD11	2.39	0.57
2:H:1679:LEU:O	2:H:1680:GLN:HG3	2.03	0.57
2:I:190:TYR:CD1	2:I:201:ILE:HD13	2.37	0.57
2:J:1659:ILE:HG13	2:J:1664:ILE:HD11	1.87	0.57
2:J:1881:TYR:CG	2:J:2004:PRO:HG3	2.39	0.57
2:K:914:TRP:HE1	2:K:916:GLY:HA3	1.68	0.57
2:L:1175:MET:HA	2:L:1274:ILE:CD1	2.34	0.57
2:L:1745:LEU:HD12	2:L:1746:THR:N	2.19	0.57
1:A:613:PRO:C	1:A:615:LEU:H	2.13	0.57
1:A:1463:GLU:O	1:A:1467:LEU:HB2	2.04	0.57
1:B:12:THR:O	1:B:16:GLU:HG2	2.04	0.57
1:B:17:LEU:HD22	2:H:2041:PRO:HB3	1.87	0.57
1:B:1704:THR:HG23	1:B:1714:PRO:HG3	1.85	0.57
1:C:18:LEU:HD21	2:I:1844:LEU:CD1	2.35	0.57
1:D:999:LEU:HD11	1:D:1575:ASN:HB3	1.85	0.57
1:D:1381:MET:HG2	1:D:1382:THR:N	2.18	0.57
1:E:1052:ASP:HB3	1:E:1055:THR:O	2.04	0.57
1:E:1156:PHE:CZ	1:E:1316:TYR:HA	2.40	0.57
1:E:1470:ARG:O	1:E:1474:ILE:HG13	2.05	0.57
1:F:619:LYS:HG2	1:F:620:LYS:H	1.69	0.57
1:F:926:SER:O	1:F:930:GLN:HG2	2.03	0.57
1:F:1142:LEU:HD12	1:F:1142:LEU:N	2.20	0.57
1:F:1565:PRO:HG3	1:F:1572:TRP:CH2	2.40	0.57
2:G:501:TRP:NE1	2:G:528:THR:CG2	2.65	0.57
2:G:1745:LEU:HB3	2:G:1799:LEU:HD22	1.87	0.57
2:H:76:VAL:O	2:H:80:ILE:HG13	2.03	0.57
2:H:747:ARG:NH1	2:H:780:SER:O	2.37	0.57
2:H:1309:PHE:CE2	2:H:1360:PRO:HA	2.39	0.57
2:H:1499:LYS:HG3	2:H:1500:ASN:N	2.17	0.57
2:H:1804:GLN:HG2	2:H:1865:LEU:HD23	1.87	0.57
2:H:1939:LEU:O	2:H:1943:LEU:HG	2.05	0.57
2:I:440:HIS:CD2	2:I:499:VAL:CG2	2.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:661:ASN:HD21	3:I:2101:FMN:HN3	1.52	0.57
2:I:1130:ILE:HG21	2:I:1155:PRO:HB3	1.86	0.57
2:I:1871:VAL:HG21	2:I:2003:VAL:HA	1.85	0.57
2:I:1944:ASN:HA	2:I:1993:PHE:CD1	2.39	0.57
2:J:1340:LYS:HE3	2:L:373:PRO:CG	2.34	0.57
2:K:76:VAL:O	2:K:80:ILE:HG13	2.05	0.57
2:K:448:HIS:HD2	2:K:491:VAL:CG1	2.18	0.57
2:L:641:MET:HE2	2:L:676:LEU:HD12	1.87	0.57
2:L:1896:THR:HG22	2:L:1897:GLU:N	2.20	0.57
2:L:1897:GLU:HG2	2:L:1901:GLN:NE2	2.19	0.57
1:A:435:GLN:HG2	1:A:701:ARG:O	2.04	0.57
1:C:1386:THR:HB	1:F:1269:SER:O	2.04	0.57
1:C:1697:LEU:O	1:C:1699:PRO:HD3	2.04	0.57
1:F:1113:LYS:O	1:F:1117:GLU:HG3	2.05	0.57
2:G:384:ASN:HB3	2:G:527:LEU:HD11	1.85	0.57
2:G:610:PRO:CD	3:G:2101:FMN:H6	2.33	0.57
2:H:718:PRO:HG3	2:H:727:VAL:HG21	1.87	0.57
2:I:489:GLU:O	2:I:493:MET:HG3	2.05	0.57
2:I:1764:MET:HG3	2:I:1781:PHE:HE1	1.70	0.57
2:I:1966:ARG:O	2:I:1970:VAL:HG23	2.04	0.57
2:J:347:PRO:HA	2:J:432:PHE:CD1	2.39	0.57
2:K:726:GLN:O	2:K:730:ILE:HG12	2.04	0.57
2:K:1586:ASP:OD1	2:K:1588:ASN:HB2	2.04	0.57
2:L:747:ARG:NH1	2:L:780:SER:O	2.37	0.57
1:B:577:LEU:HD22	1:B:585:MET:HE3	1.87	0.57
1:B:1005:TRP:CD1	1:B:1561:LEU:HD22	2.40	0.57
1:B:1106:LEU:HD23	1:B:1107:GLU:N	2.20	0.57
1:C:1307:PHE:HB3	1:C:1357:CYS:HB2	1.87	0.57
1:C:1367:LEU:HD22	1:C:1371:MET:HG3	1.86	0.57
1:D:1307:PHE:HB3	1:D:1357:CYS:HB2	1.87	0.57
1:E:689:ARG:NH2	1:E:1591:ASN:ND2	2.50	0.57
1:F:570:TYR:CE1	1:F:574:ILE:HD11	2.40	0.57
2:G:765:TYR:CG	2:G:805:MET:HE3	2.40	0.57
2:G:914:TRP:HE1	2:G:916:GLY:HA3	1.67	0.57
2:G:1192:LEU:HD22	2:G:1196:PHE:HE1	1.70	0.57
2:G:1478:GLN:HG2	2:G:1523:ILE:HG21	1.87	0.57
2:G:1499:LYS:CG	2:G:1500:ASN:N	2.67	0.57
2:H:911:GLN:NE2	2:H:1065:CYS:H	2.02	0.57
2:H:1305:LEU:H	2:H:1305:LEU:HD12	1.69	0.57
2:I:794:GLY:O	2:I:804:PRO:HA	2.05	0.57
2:I:1007:LEU:HD12	2:I:1007:LEU:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:215:TRP:O	2:J:218:VAL:HG22	2.04	0.57
2:J:448:HIS:HD2	2:J:491:VAL:CG1	2.16	0.57
2:J:740:ILE:H	2:J:740:ILE:HD12	1.70	0.57
2:J:1343:PHE:CE2	2:J:1388:PRO:HD2	2.38	0.57
2:J:1948:MET:HA	2:J:1948:MET:CE	2.27	0.57
2:K:1194:ARG:HD2	2:K:1598:SER:O	2.04	0.57
1:B:968:PRO:HD2	1:B:1374:PRO:HB3	1.87	0.57
1:B:1214:HIS:CD2	1:B:1216:SER:OG	2.56	0.57
1:C:335:LEU:C	1:C:335:LEU:HD12	2.30	0.57
1:C:457:THR:HG22	1:C:464:GLN:HA	1.87	0.57
1:C:1565:PRO:O	1:C:1566:LYS:C	2.48	0.57
1:D:70:ALA:HB2	2:L:407:LYS:HZ2	1.68	0.57
1:D:1081:ILE:HG13	1:D:1159:LEU:O	2.04	0.57
1:D:1425:LEU:CD2	1:D:1429:ARG:HH21	2.14	0.57
1:D:1523:HIS:HB2	1:D:1624:SER:HA	1.85	0.57
1:E:1534:GLU:HG2	1:E:1625:PHE:CE1	2.39	0.57
1:F:628:TYR:CE1	1:F:630:LYS:HG2	2.40	0.57
1:F:943:VAL:HG23	2:L:1539:PRO:HG3	1.86	0.57
2:G:845:ASN:HD21	2:G:849:ARG:HH11	1.52	0.57
2:G:1130:ILE:HG21	2:G:1155:PRO:HB3	1.87	0.57
2:H:794:GLY:O	2:H:804:PRO:HA	2.04	0.57
2:H:1694:PHE:HD2	2:H:1843:ALA:HB2	1.69	0.57
2:H:1867:MET:O	2:H:2003:VAL:HG21	2.05	0.57
2:I:676:LEU:HD23	2:I:679:ARG:HH21	1.70	0.57
2:J:117:ASN:OD1	2:J:561:ARG:HG3	2.05	0.57
2:J:765:TYR:CB	2:J:805:MET:HE3	2.34	0.57
2:J:856:THR:HG23	2:J:866:HIS:CD2	2.40	0.57
2:J:962:PHE:O	2:J:966:VAL:HG23	2.05	0.57
2:J:1745:LEU:HB3	2:J:1799:LEU:CD2	2.35	0.57
2:K:68:GLU:HB3	2:K:69:PRO:CD	2.34	0.57
2:L:856:THR:HA	2:L:865:ILE:O	2.05	0.57
2:L:1883:MET:HB2	2:L:2001:ILE:HD12	1.87	0.57
2:L:1962:LEU:O	2:L:1966:ARG:HB3	2.05	0.57
1:A:731:ASP:HB3	1:A:735:GLY:HA3	1.87	0.57
1:B:2:ARG:HB2	1:B:5:VAL:HB	1.85	0.57
1:B:35:ILE:HD13	2:H:1691:ALA:HB1	1.87	0.57
1:C:1005:TRP:HE1	1:C:1561:LEU:HD22	1.66	0.57
1:C:1269:SER:O	1:F:1386:THR:HB	2.05	0.57
1:D:408:GLN:HE22	1:D:1609:SER:H	1.51	0.57
1:D:427:ARG:NH1	1:D:492:ILE:HG12	2.16	0.57
1:F:383:TYR:O	1:F:387:ILE:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:430:VAL:O	1:F:434:ILE:HG13	2.04	0.57
2:G:68:GLU:HB3	2:G:69:PRO:CD	2.34	0.57
2:G:285:HIS:HD2	2:G:501:TRP:CE3	2.22	0.57
2:G:440:HIS:HD2	2:G:497:ASP:O	1.87	0.57
2:H:486:ILE:O	2:H:490:LEU:HG	2.04	0.57
2:H:540:ILE:HD13	2:H:557:GLU:HB3	1.87	0.57
2:J:540:ILE:HD13	2:J:557:GLU:HB3	1.86	0.57
2:J:857:VAL:HG13	2:J:876:TRP:HE1	1.70	0.57
2:J:1887:ASN:H	2:J:1994:ALA:HB1	1.69	0.57
2:K:1223:SER:CB	2:K:1226:ALA:HB3	2.34	0.57
2:K:1617:ARG:HB2	2:K:1635:TYR:CZ	2.40	0.57
2:K:1820:ASP:O	2:K:1823:SER:HB3	2.05	0.57
2:K:1845:VAL:HG21	2:K:1856:LEU:HD22	1.86	0.57
2:L:541:LEU:HG	2:L:552:VAL:HG11	1.87	0.57
2:L:1217:ILE:HD12	2:L:1234:ILE:HD12	1.87	0.57
1:A:81:TYR:HE1	2:G:1821:MET:HE3	1.66	0.56
1:B:1199:LEU:C	1:B:1201:SER:H	2.13	0.56
1:C:1156:PHE:CZ	1:C:1316:TYR:HA	2.39	0.56
1:C:1381:MET:HG2	1:C:1382:THR:N	2.19	0.56
1:D:1367:LEU:HD22	1:D:1371:MET:HG3	1.87	0.56
1:E:1079:ARG:CG	1:E:1079:ARG:NH1	2.66	0.56
1:E:1214:HIS:CD2	1:E:1216:SER:OG	2.57	0.56
1:E:1536:ASP:N	1:E:1602:PHE:HE1	2.02	0.56
1:F:332:GLN:O	1:F:335:LEU:HB3	2.05	0.56
2:G:1061:VAL:HG12	2:G:1066:ILE:HD11	1.86	0.56
2:H:515:ASP:HB3	2:H:541:LEU:HD23	1.87	0.56
2:H:743:TRP:CG	2:H:761:ILE:HD11	2.40	0.56
2:I:608:MET:H	2:I:612:THR:CB	2.18	0.56
2:I:641:MET:HE2	2:I:676:LEU:HD12	1.87	0.56
2:I:884:PHE:HE2	2:I:1039:GLU:HA	1.70	0.56
2:I:1475:LEU:HD11	2:I:1483:LEU:HD11	1.87	0.56
2:J:158:LEU:HD22	2:J:169:ILE:HD11	1.87	0.56
2:J:661:ASN:HD21	3:J:2101:FMN:HN3	1.52	0.56
2:J:917:ARG:HD3	2:J:921:GLY:O	2.05	0.56
2:J:934:VAL:O	2:J:938:MET:HG3	2.05	0.56
2:K:485:ASP:HB3	2:K:488:PRO:CD	2.33	0.56
2:K:641:MET:HE2	2:K:676:LEU:HD12	1.86	0.56
2:K:1299:VAL:CG2	2:K:1301:PHE:CE2	2.87	0.56
2:K:1659:ILE:HG13	2:K:1664:ILE:HD11	1.86	0.56
2:K:1726:PHE:CZ	2:K:1857:VAL:HB	2.40	0.56
2:K:2044:THR:HG21	2:K:2054:TYR:CZ	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1288:PHE:CE2	2:L:1292:VAL:HG21	2.40	0.56
2:L:1499:LYS:CG	2:L:1500:ASN:N	2.67	0.56
2:L:1804:GLN:HG2	2:L:1865:LEU:HD23	1.85	0.56
1:A:533:SER:HA	1:F:579:MET:HE1	1.87	0.56
1:A:1094:LYS:HB3	1:A:1154:LEU:HB2	1.86	0.56
1:C:689:ARG:CZ	1:C:1339:GLU:HG2	2.35	0.56
1:C:767:HIS:NE2	1:C:771:LEU:HD23	2.20	0.56
1:C:1602:PHE:CD2	1:C:1602:PHE:N	2.72	0.56
1:D:498:THR:HG22	1:D:508:TYR:HD1	1.70	0.56
1:E:1504:ARG:CG	1:E:1504:ARG:NH1	2.51	0.56
1:F:965:TYR:CZ	1:F:1199:LEU:HD22	2.40	0.56
1:F:1224:SER:HB2	1:F:1307:PHE:O	2.05	0.56
2:G:1745:LEU:HD12	2:G:1746:THR:N	2.20	0.56
2:H:126:VAL:HG12	2:H:127:ALA:H	1.70	0.56
2:H:1181:PHE:CE1	2:H:1191:PRO:HD2	2.39	0.56
2:H:1985:GLN:HG3	2:H:1986:PRO:CD	2.30	0.56
2:I:250:PHE:CB	2:I:251:PRO:HD3	2.35	0.56
2:I:440:HIS:CD2	2:I:499:VAL:HG23	2.40	0.56
2:I:791:TYR:HA	2:I:796:TRP:CD1	2.40	0.56
2:I:1602:LEU:HD13	2:I:1606:ILE:CD1	2.35	0.56
2:J:485:ASP:HB3	2:J:488:PRO:CD	2.32	0.56
2:J:580:LEU:HD12	2:J:1103:TYR:CE2	2.39	0.56
2:J:623:ASN:OD1	2:J:653:PRO:HD3	2.05	0.56
2:J:663:ILE:H	2:J:663:ILE:CD1	2.18	0.56
2:J:726:GLN:O	2:J:730:ILE:HG12	2.04	0.56
2:K:613:VAL:CG1	2:K:614:PRO:HD3	2.35	0.56
2:K:1324:PHE:N	2:K:1583:VAL:HG11	2.21	0.56
2:L:719:GLY:O	2:L:755:GLU:HG3	2.06	0.56
2:L:1130:ILE:HG21	2:L:1155:PRO:HB3	1.87	0.56
2:L:1888:PRO:HB3	2:L:1895:PHE:CD1	2.38	0.56
2:L:1939:LEU:O	2:L:1943:LEU:HG	2.06	0.56
2:L:1944:ASN:HA	2:L:1993:PHE:CD1	2.40	0.56
1:A:535:TYR:HB2	1:F:576:ALA:HA	1.87	0.56
1:A:1307:PHE:HA	1:A:1568:ALA:HB2	1.87	0.56
1:A:1565:PRO:O	1:A:1567:GLY:N	2.37	0.56
1:B:498:THR:HG21	1:B:858:LEU:O	2.06	0.56
1:B:585:MET:O	1:B:586:GLN:C	2.47	0.56
1:C:498:THR:HG21	1:C:858:LEU:O	2.05	0.56
1:C:726:VAL:HG21	1:C:780:ALA:HB3	1.87	0.56
1:C:1444:GLN:OE1	1:C:1444:GLN:HA	2.05	0.56
1:C:1565:PRO:HG3	1:C:1572:TRP:CH2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1638:HIS:ND1	1:C:1639:PRO:HD2	2.19	0.56
1:C:1663:LYS:HG2	2:I:1007:LEU:HD11	1.88	0.56
1:E:47:ILE:HB	2:K:1694:PHE:CD1	2.40	0.56
1:E:998:GLY:CA	1:E:1361:VAL:HG13	2.34	0.56
1:E:1005:TRP:CD1	1:E:1561:LEU:HD22	2.40	0.56
1:E:1218:VAL:HG13	1:E:1301:VAL:CG1	2.36	0.56
1:F:487:TYR:CE2	1:F:881:LEU:HD13	2.39	0.56
2:G:281:GLY:HA3	2:G:470:TYR:HE1	1.71	0.56
2:G:347:PRO:HA	2:G:432:PHE:CD1	2.40	0.56
2:G:600:VAL:HG13	2:G:601:PRO:CD	2.35	0.56
2:G:942:MET:HE3	2:G:1029:PRO:HD3	1.86	0.56
2:G:1393:ASP:HB3	2:G:1395:LEU:HD21	1.87	0.56
2:G:1764:MET:HB3	2:G:1780:ILE:CD1	2.34	0.56
2:G:2052:LYS:HB3	2:G:2074:TRP:CD2	2.41	0.56
2:H:24:LEU:HD11	2:H:45:ALA:HB1	1.87	0.56
2:H:580:LEU:HD12	2:H:1103:TYR:CE2	2.41	0.56
2:H:661:ASN:HD21	3:H:2101:FMN:HN3	1.52	0.56
2:H:942:MET:HE3	2:H:1029:PRO:CD	2.36	0.56
2:H:1008:ILE:HD12	2:H:1013:VAL:HG22	1.85	0.56
2:H:1223:SER:CB	2:H:1226:ALA:HB3	2.34	0.56
2:H:1335:PHE:CE1	2:H:1629:ILE:HD11	2.40	0.56
2:H:1346:MET:HE3	2:H:1617:ARG:NH2	2.19	0.56
2:H:1351:VAL:HG23	2:H:1584:SER:HA	1.87	0.56
2:H:1475:LEU:HD11	2:H:1483:LEU:HD11	1.87	0.56
2:H:1726:PHE:CZ	2:H:1857:VAL:HB	2.40	0.56
2:I:215:TRP:CE3	2:I:216:ASP:N	2.67	0.56
2:I:931:TYR:O	2:I:935:VAL:HG12	2.05	0.56
2:I:1179:GLU:HA	2:I:1190:ASN:CB	2.35	0.56
2:I:1192:LEU:HD22	2:I:1196:PHE:HE1	1.71	0.56
2:I:1915:LEU:HB2	2:I:1935:ALA:HB1	1.85	0.56
2:J:144:ARG:HH21	2:J:151:PRO:HA	1.70	0.56
2:J:472:THR:H	2:J:493:MET:HE3	1.70	0.56
2:J:1622:THR:HG23	2:J:1627:ASN:OD1	2.04	0.56
2:K:190:TYR:HE1	2:K:201:ILE:HG21	1.70	0.56
2:K:934:VAL:O	2:K:938:MET:HG3	2.05	0.56
2:K:2052:LYS:H	2:K:2052:LYS:CE	2.09	0.56
2:L:21:LEU:HD22	2:L:36:LEU:HD22	1.87	0.56
2:L:493:MET:HA	2:L:497:ASP:HB2	1.87	0.56
2:L:1977:ARG:HD2	2:L:1978:LYS:HG3	1.88	0.56
1:A:767:HIS:NE2	1:A:771:LEU:HD23	2.21	0.56
1:A:1480:ARG:NH2	1:E:1488:SER:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:365:GLN:HG3	1:E:365:GLN:HG3	1.88	0.56
1:B:1483:ALA:HA	1:B:1486:GLN:HE21	1.71	0.56
1:B:1565:PRO:O	1:B:1567:GLY:N	2.38	0.56
1:C:623:PHE:CD2	1:C:623:PHE:N	2.73	0.56
1:C:1280:CYS:HB2	1:C:1626:GLY:HA2	1.87	0.56
1:D:47:ILE:HD12	2:J:1818:PHE:HD1	1.69	0.56
1:D:962:ASN:HD22	2:J:1006:GLN:NE2	2.04	0.56
1:D:1078:ILE:HD13	1:D:1352:MET:HG2	1.86	0.56
1:D:1565:PRO:HG3	1:D:1572:TRP:CH2	2.40	0.56
1:E:935:GLU:HG3	2:K:1466:VAL:HG11	1.87	0.56
1:F:1081:ILE:HG13	1:F:1159:LEU:O	2.05	0.56
2:G:652:ILE:HG23	2:G:653:PRO:HD2	1.87	0.56
2:G:718:PRO:HG3	2:G:727:VAL:HG21	1.87	0.56
2:H:118:ASP:OD2	2:H:559:PHE:HB2	2.06	0.56
2:H:250:PHE:CB	2:H:251:PRO:HD3	2.36	0.56
2:H:472:THR:HG23	2:H:499:VAL:HA	1.87	0.56
2:H:616:ASP:OD2	2:H:823:HIS:CE1	2.58	0.56
2:H:1374:VAL:CG2	2:H:1436:ARG:HE	2.19	0.56
2:I:580:LEU:HD12	2:I:1103:TYR:CE2	2.41	0.56
2:I:1171:TRP:HB3	2:I:1265:TYR:CE1	2.40	0.56
2:I:1374:VAL:CG2	2:I:1436:ARG:HE	2.18	0.56
2:I:1375:HIS:HE1	2:I:1610:MET:SD	2.28	0.56
2:I:1499:LYS:HG3	2:I:1500:ASN:N	2.20	0.56
2:I:1866:THR:HA	2:I:1869:VAL:CG2	2.36	0.56
2:J:931:TYR:O	2:J:935:VAL:HG12	2.05	0.56
2:K:250:PHE:CB	2:K:251:PRO:HD3	2.35	0.56
2:L:68:GLU:HB3	2:L:69:PRO:CD	2.36	0.56
2:L:855:ILE:HB	2:L:869:ALA:HB2	1.87	0.56
2:L:1866:THR:HA	2:L:1869:VAL:CG2	2.35	0.56
1:A:433:CYS:O	1:A:437:MET:HG3	2.06	0.56
1:A:1388:LYS:HD3	1:E:1692:GLN:HE22	1.70	0.56
1:E:616:HIS:C	1:E:617:LEU:HD23	2.30	0.56
1:E:1142:LEU:HD12	1:E:1142:LEU:H	1.70	0.56
1:F:621:ASP:CB	1:F:625:ASN:HB2	2.36	0.56
2:G:855:ILE:HB	2:G:869:ALA:HB2	1.87	0.56
2:G:938:MET:HB3	2:G:959:THR:HG22	1.88	0.56
2:G:1203:TYR:O	2:G:1219:VAL:HA	2.05	0.56
2:G:1402:ASN:ND2	2:G:1416:CYS:HB2	2.20	0.56
2:G:1866:THR:HA	2:G:1869:VAL:HG22	1.86	0.56
2:H:186:LEU:HG	2:H:256:VAL:HG22	1.88	0.56
2:I:501:TRP:HZ2	2:I:528:THR:HG21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:857:VAL:HG13	2:I:876:TRP:HE1	1.70	0.56
2:J:783:GLY:HA3	2:J:1075:TYR:CB	2.36	0.56
2:J:949:ARG:HH22	2:J:1052:ASP:CG	2.14	0.56
2:J:1586:ASP:OD1	2:J:1588:ASN:HB2	2.06	0.56
2:J:1762:MET:HG2	2:J:1779:LYS:HZ1	1.71	0.56
2:J:1897:GLU:HG2	2:J:1901:GLN:NE2	2.18	0.56
2:K:845:ASN:HD21	2:K:849:ARG:HH11	1.53	0.56
2:K:1008:ILE:HD12	2:K:1013:VAL:HG22	1.87	0.56
2:K:1694:PHE:HD2	2:K:1843:ALA:HB2	1.70	0.56
2:K:1938:THR:O	2:K:1942:VAL:HG23	2.05	0.56
2:K:1977:ARG:HD2	2:K:1978:LYS:HG3	1.88	0.56
2:L:580:LEU:HD12	2:L:1103:TYR:CE2	2.40	0.56
2:L:606:ALA:HB2	2:L:811:MET:CG	2.35	0.56
2:L:1181:PHE:CE1	2:L:1191:PRO:HD2	2.40	0.56
2:L:1960:MET:HB3	2:L:1964:ASP:CB	2.35	0.56
2:L:2052:LYS:HD3	2:L:2074:TRP:HE1	1.67	0.56
1:A:18:LEU:HD21	2:G:1844:LEU:HD11	1.88	0.56
1:A:1052:ASP:HB3	1:A:1055:THR:O	2.05	0.56
1:A:1483:ALA:HA	1:A:1486:GLN:HE21	1.69	0.56
1:A:1523:HIS:HB2	1:A:1624:SER:HA	1.88	0.56
1:B:24:MET:HE2	2:H:2043:VAL:HG13	1.87	0.56
1:C:1094:LYS:HB3	1:C:1154:LEU:HB2	1.87	0.56
1:D:415:TYR:O	1:D:419:PHE:HD1	1.88	0.56
1:D:1199:LEU:C	1:D:1201:SER:H	2.12	0.56
1:D:1336:GLU:O	1:D:1340:MET:HG2	2.05	0.56
1:D:1493:PHE:CE2	1:D:1509:THR:HG22	2.40	0.56
1:F:1168:TRP:NE1	1:F:1173:TYR:HE1	2.04	0.56
1:F:1640:LYS:HG3	1:F:1641:TYR:N	2.20	0.56
2:G:661:ASN:HD21	3:G:2101:FMN:HN3	1.51	0.56
2:H:37:VAL:HG12	2:H:38:PRO:O	2.05	0.56
2:H:854:VAL:CG2	2:H:1070:PRO:HA	2.35	0.56
2:I:1217:ILE:HD12	2:I:1234:ILE:HD12	1.87	0.56
2:J:608:MET:HE1	2:J:817:MET:HG2	1.88	0.56
2:K:31:LEU:HD13	2:K:75:LEU:HD21	1.88	0.56
2:K:1097:PHE:HD2	2:K:1100:ARG:HH12	1.52	0.56
2:K:1305:LEU:H	2:K:1305:LEU:HD12	1.69	0.56
2:K:1328:VAL:HA	2:K:1611:TYR:CE1	2.38	0.56
2:L:868:LEU:O	2:L:870:THR:HG23	2.06	0.56
1:B:29:ILE:HD11	2:H:1922:VAL:C	2.31	0.56
1:C:415:TYR:CD2	1:C:1614:THR:HA	2.40	0.56
1:C:1106:LEU:HD23	1:C:1107:GLU:H	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1230:SER:HA	1:C:1311:GLN:NE2	2.20	0.56
1:C:1426:GLU:HA	1:C:1429:ARG:HB2	1.88	0.56
1:D:651:GLN:HA	1:D:677:GLY:HA3	1.87	0.56
1:D:1602:PHE:N	1:D:1602:PHE:CD2	2.74	0.56
1:F:682:VAL:HG11	1:F:695:TYR:CE2	2.40	0.56
1:F:1443:LEU:HD11	1:F:1470:ARG:HB3	1.87	0.56
2:G:251:PRO:HG3	2:G:316:PHE:CA	2.33	0.56
2:G:1217:ILE:HD12	2:G:1234:ILE:HD12	1.88	0.56
2:G:1475:LEU:HD11	2:G:1483:LEU:HD11	1.87	0.56
2:G:1883:MET:HB2	2:G:2001:ILE:HD12	1.87	0.56
2:G:2059:HIS:ND1	2:G:2067:ILE:HG22	2.20	0.56
2:H:285:HIS:HD2	2:H:501:TRP:CE3	2.24	0.56
2:H:376:ARG:CB	2:H:394:PRO:HG2	2.35	0.56
2:H:411:PRO:HD2	2:H:414:LEU:CD1	2.36	0.56
2:H:779:GLY:O	2:H:780:SER:CB	2.52	0.56
2:H:1093:ASP:O	2:H:1097:PHE:CD1	2.59	0.56
2:H:1537:GLY:O	2:H:1539:PRO:HD3	2.06	0.56
2:I:374:GLU:CA	2:I:377:HIS:HD2	2.08	0.56
2:I:600:VAL:HG22	2:I:601:PRO:HD2	1.87	0.56
2:I:765:TYR:CG	2:I:805:MET:HE3	2.41	0.56
2:I:924:VAL:HG12	2:I:925:ASP:H	1.70	0.56
2:I:962:PHE:O	2:I:966:VAL:HG23	2.06	0.56
2:I:1976:CYS:O	2:I:1980:THR:HG23	2.05	0.56
2:J:215:TRP:CE3	2:J:216:ASP:N	2.68	0.56
2:K:186:LEU:HG	2:K:256:VAL:HG22	1.87	0.56
2:K:1436:ARG:HH22	2:K:1602:LEU:HD21	1.70	0.56
2:K:1516:GLU:HA	2:K:1521:GLU:O	2.06	0.56
2:L:713:HIS:CD2	2:L:740:ILE:HD13	2.41	0.56
2:L:1309:PHE:CE2	2:L:1360:PRO:HA	2.40	0.56
1:A:994:VAL:HG21	1:A:1291:TYR:CD1	2.41	0.56
1:B:1580:VAL:HG22	1:B:1585:ILE:O	2.06	0.56
1:C:2:ARG:HB2	1:C:5:VAL:HB	1.88	0.56
1:C:968:PRO:HD2	1:C:1374:PRO:HB3	1.88	0.56
1:C:1106:LEU:HD23	1:C:1107:GLU:N	2.21	0.56
1:D:855:ALA:HA	1:D:919:ARG:NH2	2.18	0.56
1:E:701:ARG:NH1	1:E:1610:ARG:HH21	2.04	0.56
2:G:540:ILE:HD13	2:G:557:GLU:HB3	1.87	0.56
2:G:606:ALA:HB2	2:G:811:MET:CG	2.36	0.56
2:G:935:VAL:HG11	2:G:997:LEU:HD21	1.87	0.56
2:G:942:MET:HE3	2:G:1029:PRO:CD	2.36	0.56
2:G:1309:PHE:CE2	2:G:1360:PRO:HA	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1519:THR:O	2:G:1520:LYS:HB2	2.05	0.56
2:G:1659:ILE:HG13	2:G:1664:ILE:HD11	1.88	0.56
2:H:1375:HIS:HE1	2:H:1610:MET:SD	2.28	0.56
2:J:709:LEU:HD23	2:J:709:LEU:H	1.71	0.56
2:J:1299:VAL:CG2	2:J:1301:PHE:CE2	2.87	0.56
2:J:1706:MET:O	2:J:1709:TYR:HB3	2.06	0.56
2:J:1721:ARG:HH21	2:J:1853:ILE:HD12	1.69	0.56
2:K:1203:TYR:O	2:K:1219:VAL:HA	2.06	0.56
2:K:1290:TYR:CD1	2:K:1299:VAL:HG12	2.41	0.56
2:K:2073:ASN:O	2:K:2076:LYS:HB3	2.05	0.56
2:L:636:TYR:N	2:L:636:TYR:HD1	2.04	0.56
2:L:743:TRP:CG	2:L:761:ILE:HD11	2.40	0.56
1:A:883:LEU:N	1:A:883:LEU:HD23	2.20	0.56
1:A:995:VAL:HG13	1:A:1375:ILE:HG23	1.87	0.56
1:A:1470:ARG:O	1:A:1474:ILE:HG13	2.05	0.56
1:B:1113:LYS:O	1:B:1117:GLU:HG3	2.06	0.56
1:B:1426:GLU:HA	1:B:1429:ARG:HB2	1.87	0.56
1:B:1470:ARG:O	1:B:1474:ILE:HG13	2.06	0.56
1:C:397:ARG:NH1	1:C:692:THR:HG21	2.20	0.56
1:C:1610:ARG:HH11	1:C:1610:ARG:CG	1.97	0.56
1:D:1071:TYR:C	1:D:1071:TYR:CD2	2.84	0.56
1:E:1161:ALA:O	1:E:1163:GLN:HG3	2.06	0.56
1:E:1394:PRO:HB3	1:E:1627:PHE:CE2	2.41	0.56
1:E:1523:HIS:HB2	1:E:1624:SER:HA	1.88	0.56
1:F:1483:ALA:HA	1:F:1486:GLN:HE21	1.70	0.56
2:G:327:PRO:CD	2:H:1338:ARG:NH2	2.64	0.56
2:G:928:ASP:HA	2:G:1007:LEU:HD23	1.88	0.56
2:H:765:TYR:CG	2:H:805:MET:HE3	2.41	0.56
2:I:786:GLU:H	2:I:786:GLU:CD	2.14	0.56
2:I:1393:ASP:HB3	2:I:1395:LEU:HD21	1.88	0.56
2:I:1586:ASP:OD1	2:I:1588:ASN:HB2	2.06	0.56
2:I:1896:THR:HG22	2:I:1897:GLU:N	2.21	0.56
2:J:135:GLY:HA2	2:J:138:ARG:NH1	2.21	0.56
2:J:595:SER:CB	2:J:602:PRO:HG3	2.27	0.56
2:J:1374:VAL:CG2	2:J:1436:ARG:HE	2.19	0.56
2:J:1411:LYS:O	2:J:1434:LEU:HD12	2.06	0.56
2:J:1510:ILE:HA	2:J:1528:VAL:O	2.06	0.56
2:K:827:GLN:H	2:K:827:GLN:CD	2.14	0.56
2:K:856:THR:HA	2:K:865:ILE:O	2.06	0.56
2:L:636:TYR:N	2:L:636:TYR:CD1	2.74	0.56
2:L:1179:GLU:HA	2:L:1190:ASN:CB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1097:LEU:HD13	1:E:1149:LEU:HD12	1.88	0.56
1:B:434:ILE:CD1	1:B:490:VAL:HG21	2.34	0.56
1:D:1032:MET:HE3	1:D:1165:PRO:HB3	1.88	0.56
1:E:11:TYR:O	1:E:15:VAL:HG23	2.06	0.56
1:F:623:PHE:CD2	1:F:623:PHE:N	2.73	0.56
1:F:1052:ASP:HB3	1:F:1055:THR:O	2.06	0.56
1:F:1161:ALA:O	1:F:1163:GLN:HG3	2.05	0.56
1:F:1514:ILE:O	1:F:1547:ARG:NH1	2.38	0.56
2:G:827:GLN:NE2	2:G:827:GLN:H	2.03	0.56
2:G:1371:LEU:O	2:G:1590:ILE:HD11	2.05	0.56
2:G:1440:THR:O	2:G:1440:THR:HG22	2.06	0.56
2:H:68:GLU:HB3	2:H:69:PRO:CD	2.36	0.56
2:H:331:LEU:HD22	2:H:396:ILE:HG13	1.86	0.56
2:H:719:GLY:O	2:H:755:GLU:HG3	2.06	0.56
2:H:1171:TRP:HB3	2:H:1265:TYR:CE1	2.41	0.56
2:I:281:GLY:HA3	2:I:470:TYR:HE1	1.69	0.56
2:I:623:ASN:OD1	2:I:653:PRO:HD3	2.05	0.56
2:I:917:ARG:HD3	2:I:921:GLY:O	2.06	0.56
2:I:1301:PHE:CB	2:I:1364:ARG:NH1	2.69	0.56
2:I:1335:PHE:HE1	2:I:1629:ILE:HD13	1.70	0.56
2:J:914:TRP:HE1	2:J:916:GLY:HA3	1.69	0.56
2:K:606:ALA:HB2	2:K:811:MET:CG	2.36	0.56
2:K:1962:LEU:O	2:K:1966:ARG:HB3	2.06	0.56
2:L:621:THR:HG21	2:L:628:ILE:HD12	1.88	0.56
2:L:1200:ARG:HD3	2:L:1200:ARG:N	2.20	0.56
1:A:383:TYR:O	1:A:387:ILE:HG23	2.06	0.55
1:A:621:ASP:CB	1:A:625:ASN:HB2	2.37	0.55
1:A:1106:LEU:HD23	1:A:1107:GLU:N	2.21	0.55
1:A:1432:ILE:CD1	1:A:1481:GLN:HB3	2.36	0.55
1:C:1199:LEU:C	1:C:1201:SER:H	2.14	0.55
1:C:1336:GLU:O	1:C:1340:MET:HG2	2.06	0.55
1:D:1483:ALA:HA	1:D:1486:GLN:HE21	1.71	0.55
1:F:1490:GLY:O	1:F:1509:THR:HB	2.06	0.55
2:G:159:PHE:CZ	2:G:275:LEU:HD21	2.40	0.55
2:G:641:MET:HE2	2:G:676:LEU:HD12	1.88	0.55
2:G:663:ILE:H	2:G:663:ILE:HD12	1.70	0.55
2:G:1760:ASN:O	2:G:1764:MET:HG2	2.06	0.55
2:G:1871:VAL:CG1	2:G:1872:GLU:N	2.69	0.55
2:H:1217:ILE:HD12	2:H:1234:ILE:HD12	1.87	0.55
2:I:752:HIS:NE2	2:I:856:THR:CG2	2.68	0.55
2:I:827:GLN:NE2	2:I:827:GLN:H	2.03	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1962:LEU:O	2:I:1966:ARG:HB3	2.05	0.55
2:J:621:THR:HG21	2:J:628:ILE:HD12	1.89	0.55
2:J:1178:THR:HG22	2:J:1180:VAL:H	1.71	0.55
2:J:1290:TYR:CD1	2:J:1299:VAL:HG12	2.41	0.55
2:J:1985:GLN:HG3	2:J:1986:PRO:CD	2.27	0.55
2:K:21:LEU:HD22	2:K:36:LEU:HD22	1.88	0.55
2:K:608:MET:H	2:K:612:THR:CB	2.19	0.55
2:K:1883:MET:HB2	2:K:2001:ILE:HD12	1.88	0.55
2:L:215:TRP:CE3	2:L:215:TRP:N	2.74	0.55
2:L:501:TRP:NE1	2:L:528:THR:CG2	2.65	0.55
2:L:1475:LEU:HD11	2:L:1483:LEU:HD11	1.88	0.55
1:A:70:ALA:HB2	2:I:407:LYS:HZ2	1.72	0.55
1:A:450:TYR:CZ	1:A:1551:ASN:HB2	2.42	0.55
1:B:1047:TYR:CZ	1:B:1058:PRO:HB3	2.41	0.55
1:C:427:ARG:CG	1:C:427:ARG:NH1	2.51	0.55
1:D:498:THR:HG21	1:D:858:LEU:O	2.06	0.55
1:D:560:LYS:O	1:D:564:LEU:HB2	2.06	0.55
1:D:967:PHE:CE2	1:D:1662:GLN:HB2	2.41	0.55
1:F:1157:ASP:O	1:F:1159:LEU:HD12	2.06	0.55
2:G:791:TYR:HA	2:G:796:TRP:CD1	2.42	0.55
2:H:924:VAL:HG12	2:H:925:ASP:H	1.71	0.55
2:H:938:MET:HB3	2:H:959:THR:HG22	1.88	0.55
2:I:68:GLU:HB3	2:I:69:PRO:CD	2.36	0.55
2:I:458:MET:C	2:I:459:LYS:HG3	2.31	0.55
2:I:1510:ILE:HA	2:I:1528:VAL:O	2.06	0.55
2:J:250:PHE:CB	2:J:251:PRO:HD3	2.36	0.55
2:J:501:TRP:NE1	2:J:528:THR:CG2	2.67	0.55
2:J:609:THR:O	2:J:613:VAL:HB	2.05	0.55
2:J:827:GLN:NE2	2:J:827:GLN:H	2.04	0.55
2:J:1402:ASN:ND2	2:J:1416:CYS:HB2	2.22	0.55
2:J:1915:LEU:HB2	2:J:1935:ALA:HB1	1.87	0.55
2:K:1288:PHE:CE2	2:K:1292:VAL:HG21	2.41	0.55
2:L:126:VAL:HG12	2:L:127:ALA:H	1.69	0.55
2:L:924:VAL:HG12	2:L:925:ASP:H	1.72	0.55
1:A:340:LEU:HD21	1:F:340:LEU:HD21	1.87	0.55
1:A:1602:PHE:N	1:A:1602:PHE:CD2	2.74	0.55
1:B:27:ARG:HG3	2:H:2045:ALA:HB2	1.86	0.55
1:B:457:THR:HG22	1:B:464:GLN:HA	1.88	0.55
1:B:573:VAL:O	1:B:577:LEU:HG	2.06	0.55
1:C:617:LEU:HD11	1:C:636:TYR:HB2	1.88	0.55
1:D:1426:GLU:HA	1:D:1429:ARG:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:421:ARG:HH22	1:E:1613:LYS:HB3	1.72	0.55
1:F:15:VAL:HG11	2:L:2022:LEU:CD2	2.35	0.55
1:F:457:THR:HG22	1:F:464:GLN:HA	1.88	0.55
1:F:498:THR:HG22	1:F:508:TYR:HD1	1.71	0.55
2:G:77:ALA:O	2:G:139:ALA:HB1	2.04	0.55
2:G:1976:CYS:O	2:G:1980:THR:HG23	2.07	0.55
2:H:783:GLY:HA3	2:H:1075:TYR:CB	2.36	0.55
2:H:942:MET:HE3	2:H:1029:PRO:HD3	1.88	0.55
2:H:1247:PHE:HB3	2:H:1256:VAL:CG1	2.36	0.55
2:H:1262:ARG:NH2	2:H:1277:VAL:HG11	2.21	0.55
2:I:376:ARG:CB	2:I:394:PRO:HG2	2.34	0.55
2:I:856:THR:HG23	2:I:866:HIS:CD2	2.41	0.55
2:I:928:ASP:HA	2:I:1007:LEU:HD23	1.88	0.55
2:I:1286:LYS:HZ1	2:I:1367:ASP:HB2	1.71	0.55
2:I:1309:PHE:CE2	2:I:1360:PRO:HA	2.41	0.55
2:I:1517:LEU:HB2	2:I:1521:GLU:HB2	1.87	0.55
2:K:1902:TYR:OH	2:K:1966:ARG:HB2	2.07	0.55
2:L:158:LEU:HD22	2:L:169:ILE:HD11	1.89	0.55
2:L:775:VAL:O	2:L:777:VAL:HG23	2.06	0.55
2:L:783:GLY:HA3	2:L:1075:TYR:CB	2.37	0.55
2:L:1067:LEU:HD12	2:L:1067:LEU:N	2.21	0.55
1:A:15:VAL:HG11	2:G:2022:LEU:CD2	2.36	0.55
1:A:430:VAL:O	1:A:434:ILE:HG13	2.06	0.55
1:A:498:THR:HG22	1:A:508:TYR:HD1	1.70	0.55
1:A:1081:ILE:HG13	1:A:1159:LEU:O	2.07	0.55
1:B:628:TYR:CZ	1:B:630:LYS:HG2	2.42	0.55
1:C:28:TRP:CZ2	1:C:53:LEU:HD22	2.41	0.55
1:C:755:GLU:CG	1:D:831:GLU:HG2	2.34	0.55
1:C:1218:VAL:HG13	1:C:1301:VAL:HG13	1.88	0.55
1:D:415:TYR:CD2	1:D:1614:THR:HA	2.42	0.55
1:D:1089:TYR:CE1	1:D:1312:GLU:HG3	2.41	0.55
1:E:1323:ALA:HB1	1:E:1351:PHE:HE2	1.69	0.55
1:E:1610:ARG:NH1	1:E:1610:ARG:CG	2.58	0.55
1:E:1704:THR:HG23	1:E:1714:PRO:HG3	1.88	0.55
1:F:64:LYS:HE3	2:L:1923:ALA:HB1	1.88	0.55
2:G:731:ALA:HA	2:G:739:ILE:CD1	2.37	0.55
2:G:1726:PHE:CZ	2:G:1857:VAL:HB	2.41	0.55
2:H:501:TRP:NE1	2:H:528:THR:CG2	2.68	0.55
2:H:1061:VAL:HG12	2:H:1066:ILE:HD11	1.88	0.55
2:H:1192:LEU:HD22	2:H:1196:PHE:HE1	1.71	0.55
2:H:1521:GLU:OE2	2:H:2028:THR:CG2	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:472:THR:H	2:I:493:MET:HE3	1.70	0.55
2:I:1008:ILE:HD12	2:I:1013:VAL:HG22	1.88	0.55
2:I:1138:ASP:HB2	2:I:1140:ASN:H	1.71	0.55
2:I:1475:LEU:HA	2:I:1526:ALA:HB2	1.89	0.55
2:I:1964:ASP:O	2:I:1968:HIS:HB2	2.07	0.55
2:I:1977:ARG:HD2	2:I:1978:LYS:HG3	1.88	0.55
2:J:48:LEU:HD13	2:J:83:VAL:HG22	1.89	0.55
2:J:1745:LEU:HD12	2:J:1746:THR:N	2.21	0.55
2:K:300:THR:HG22	2:K:302:ASP:H	1.72	0.55
2:K:382:LEU:HB3	2:K:499:VAL:HB	1.89	0.55
2:K:779:GLY:O	2:K:780:SER:CB	2.52	0.55
2:K:1175:MET:HE2	2:K:1234:ILE:HG21	1.87	0.55
2:L:60:THR:HG22	2:L:62:GLU:H	1.71	0.55
2:L:99:LEU:O	2:L:103:LYS:HG3	2.07	0.55
2:L:388:ASN:HD22	2:L:388:ASN:C	2.13	0.55
2:L:911:GLN:HE21	2:L:1065:CYS:H	1.54	0.55
2:L:1938:THR:O	2:L:1942:VAL:HG23	2.06	0.55
1:B:1307:PHE:HB3	1:B:1357:CYS:HB2	1.88	0.55
1:D:332:GLN:O	1:D:335:LEU:HB3	2.05	0.55
1:D:1573:MET:HE2	1:D:1622:VAL:HG23	1.87	0.55
1:E:430:VAL:O	1:E:434:ILE:HG13	2.06	0.55
1:E:532:ILE:HG22	1:E:907:PHE:HB2	1.83	0.55
1:E:967:PHE:HB3	1:E:968:PRO:HD2	1.88	0.55
1:E:1381:MET:HG2	1:E:1382:THR:N	2.22	0.55
1:F:1426:GLU:HA	1:F:1429:ARG:HB2	1.88	0.55
2:G:1873:ARG:NH1	2:G:2002:ASP:HB3	2.22	0.55
2:H:251:PRO:CG	2:H:316:PHE:HA	2.34	0.55
2:H:823:HIS:HB3	2:H:1051:GLU:HG3	1.89	0.55
2:H:1290:TYR:CD1	2:H:1299:VAL:HG12	2.41	0.55
2:H:1561:ILE:HB	2:H:1655:HIS:HB3	1.87	0.55
2:I:471:ASP:OD1	2:I:493:MET:HE3	2.07	0.55
2:I:1918:VAL:HG13	2:I:2006:HIS:CB	2.33	0.55
2:J:685:VAL:HG23	2:J:1186:ARG:NH1	2.21	0.55
2:J:1154:LEU:HD13	2:J:1198:PRO:HB3	1.88	0.55
2:J:1944:ASN:HA	2:J:1993:PHE:CD1	2.42	0.55
2:K:126:VAL:HG12	2:K:127:ALA:H	1.71	0.55
2:K:549:ASN:HD22	2:K:550:THR:N	2.03	0.55
2:K:595:SER:HB2	2:K:600:VAL:O	2.06	0.55
2:K:1130:ILE:HB	2:K:1133:LEU:HD22	1.88	0.55
2:K:1200:ARG:HD3	2:K:1200:ARG:N	2.21	0.55
2:K:1315:ILE:H	2:K:1315:ILE:HD12	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1721:ARG:HH21	2:K:1853:ILE:HD12	1.68	0.55
2:L:1171:TRP:HB3	2:L:1265:TYR:CE1	2.41	0.55
2:L:1499:LYS:HD3	2:L:1534:GLU:OE1	2.06	0.55
2:L:1517:LEU:HB2	2:L:1521:GLU:HB2	1.87	0.55
1:A:689:ARG:HH21	1:A:1591:ASN:ND2	2.05	0.55
1:A:1420:TYR:OH	1:E:1473:HIS:HE1	1.89	0.55
1:B:332:GLN:O	1:B:335:LEU:HB3	2.07	0.55
1:B:987:MET:O	1:B:1490:GLY:HA3	2.07	0.55
1:B:1523:HIS:HB2	1:B:1624:SER:HA	1.87	0.55
1:D:397:ARG:HH11	1:D:692:THR:HG21	1.70	0.55
1:D:434:ILE:HD11	1:D:490:VAL:HG21	1.87	0.55
1:E:883:LEU:N	1:E:883:LEU:HD23	2.21	0.55
1:E:1432:ILE:CD1	1:E:1481:GLN:HB3	2.36	0.55
1:F:408:GLN:HE22	1:F:1609:SER:H	1.53	0.55
1:F:443:LEU:H	1:F:443:LEU:HD12	1.72	0.55
1:F:612:ILE:HD12	1:F:907:PHE:HZ	1.72	0.55
1:F:1071:TYR:C	1:F:1071:TYR:CD2	2.84	0.55
1:F:1095:GLN:O	1:F:1096:LEU:HD23	2.07	0.55
1:F:1214:HIS:CD2	1:F:1216:SER:OG	2.58	0.55
1:F:1565:PRO:O	1:F:1567:GLY:N	2.40	0.55
2:G:411:PRO:HD2	2:G:414:LEU:CD1	2.37	0.55
2:G:621:THR:HG21	2:G:628:ILE:HD12	1.89	0.55
2:H:1442:TYR:HA	2:H:1445:THR:HG22	1.87	0.55
2:H:1944:ASN:HA	2:H:1993:PHE:CD1	2.42	0.55
2:H:1962:LEU:O	2:H:1966:ARG:HB3	2.06	0.55
2:I:331:LEU:HD22	2:I:396:ILE:HG13	1.89	0.55
2:I:752:HIS:CE1	2:I:847:TYR:CE2	2.91	0.55
2:I:783:GLY:HA3	2:I:1075:TYR:CB	2.36	0.55
2:I:796:TRP:CZ2	2:I:805:MET:HE2	2.42	0.55
2:I:854:VAL:CG2	2:I:1070:PRO:HA	2.35	0.55
2:I:1751:GLY:O	2:I:1755:LYS:HG2	2.06	0.55
2:J:1833:PHE:CZ	2:J:2039:TYR:HB2	2.41	0.55
2:J:1918:VAL:HG22	2:J:2006:HIS:O	2.06	0.55
2:K:1031:VAL:HG22	2:K:1041:TRP:HB3	1.87	0.55
2:K:1175:MET:HA	2:K:1274:ILE:CD1	2.36	0.55
2:K:1499:LYS:CG	2:K:1500:ASN:N	2.69	0.55
2:K:1960:MET:HB3	2:K:1964:ASP:CB	2.37	0.55
2:L:246:ALA:HB3	2:L:247:PRO:HD3	1.87	0.55
1:A:1490:GLY:O	1:A:1509:THR:HB	2.07	0.55
1:B:651:GLN:HA	1:B:677:GLY:HA3	1.88	0.55
1:B:883:LEU:N	1:B:883:LEU:HD23	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1071:TYR:C	1:B:1071:TYR:CD2	2.85	0.55
1:B:1389:ILE:CG1	1:D:1268:SER:HB3	2.12	0.55
1:B:1630:LYS:HD2	1:D:1273:ILE:CD1	2.33	0.55
1:C:833:TRP:CH2	1:C:839:ILE:HD11	2.41	0.55
1:C:1307:PHE:HA	1:C:1568:ALA:HB2	1.86	0.55
1:D:29:ILE:HD11	2:J:1923:ALA:N	2.21	0.55
1:D:968:PRO:HD2	1:D:1374:PRO:HB3	1.88	0.55
1:E:1011:ARG:HD2	1:E:1011:ARG:C	2.32	0.55
1:F:621:ASP:HB3	1:F:625:ASN:HB2	1.88	0.55
2:G:521:VAL:O	2:G:526:VAL:HG21	2.07	0.55
2:G:573:VAL:CG2	2:G:804:PRO:HB2	2.37	0.55
2:H:170:TYR:CE2	2:H:507:PHE:HB3	2.42	0.55
2:H:1067:LEU:HB2	3:H:2101:FMN:HM72	1.87	0.55
2:H:1179:GLU:HA	2:H:1190:ASN:CB	2.37	0.55
2:I:1181:PHE:CE1	2:I:1191:PRO:HD2	2.41	0.55
2:J:374:GLU:CA	2:J:377:HIS:HD2	2.09	0.55
2:J:719:GLY:O	2:J:755:GLU:HG3	2.06	0.55
2:J:1466:VAL:O	2:J:1470:LYS:HG2	2.06	0.55
2:J:1499:LYS:HG3	2:J:1500:ASN:N	2.21	0.55
2:K:347:PRO:HA	2:K:432:PHE:CD1	2.42	0.55
2:K:465:LEU:HB2	2:K:479:ARG:HG2	1.88	0.55
2:K:541:LEU:HG	2:K:552:VAL:HG11	1.88	0.55
2:K:731:ALA:HA	2:K:739:ILE:CD1	2.37	0.55
2:K:740:ILE:H	2:K:740:ILE:HD12	1.71	0.55
2:K:1478:GLN:HG2	2:K:1523:ILE:HG21	1.88	0.55
2:L:752:HIS:NE2	2:L:856:THR:CG2	2.70	0.55
2:L:1356:ALA:CB	2:L:1397:THR:HG22	2.37	0.55
2:L:1845:VAL:HG21	2:L:1856:LEU:HD22	1.88	0.55
1:A:1071:TYR:C	1:A:1071:TYR:CD2	2.85	0.55
1:A:1270:THR:HG21	1:E:1402:THR:CG2	2.37	0.55
1:B:682:VAL:HG11	1:B:695:TYR:HE2	1.71	0.55
1:B:767:HIS:HB2	1:B:813:LEU:HD12	1.88	0.55
1:C:11:TYR:O	1:C:15:VAL:HG23	2.06	0.55
1:C:1081:ILE:HG13	1:C:1159:LEU:O	2.07	0.55
1:C:1086:PHE:CE2	1:C:1310:PHE:HD2	2.24	0.55
1:E:415:TYR:O	1:E:419:PHE:HD1	1.90	0.55
1:E:558:LEU:HB2	1:E:563:GLN:CG	2.34	0.55
2:G:289:ILE:HD13	2:G:493:MET:HE1	1.88	0.55
2:G:472:THR:HG23	2:G:499:VAL:HA	1.88	0.55
2:G:1142:ILE:HG13	2:G:1209:PRO:HG3	1.88	0.55
2:G:1181:PHE:CE1	2:G:1191:PRO:HD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1846:ALA:HB3	2:G:1847:LEU:HD12	1.87	0.55
2:H:186:LEU:CD2	2:H:256:VAL:HG22	2.36	0.55
2:H:1097:PHE:CD2	2:H:1100:ARG:NH1	2.75	0.55
2:H:1594:ARG:HH11	2:H:1594:ARG:CG	1.93	0.55
2:I:493:MET:HA	2:I:497:ASP:HB2	1.88	0.55
2:I:505:THR:HG22	2:I:505:THR:O	2.06	0.55
2:I:942:MET:HE3	2:I:1029:PRO:HD3	1.89	0.55
2:J:77:ALA:O	2:J:139:ALA:HB1	2.07	0.55
2:J:440:HIS:CD2	2:J:499:VAL:CG2	2.90	0.55
2:J:747:ARG:NH1	2:J:780:SER:O	2.39	0.55
2:J:1602:LEU:HD13	2:J:1606:ILE:CD1	2.36	0.55
2:J:1621:GLU:OE2	2:J:1629:ILE:HG23	2.07	0.55
2:J:1962:LEU:O	2:J:1966:ARG:HB3	2.06	0.55
2:J:1964:ASP:O	2:J:1968:HIS:HB2	2.07	0.55
2:K:101:VAL:O	2:K:105:ILE:HG12	2.07	0.55
2:K:190:TYR:CE1	2:K:201:ILE:HG21	2.41	0.55
2:K:1251:THR:HG22	2:K:1292:VAL:HG13	1.88	0.55
2:K:1619:LEU:O	2:K:1623:TRP:HB2	2.06	0.55
2:L:646:SER:HA	2:L:649:GLU:HG2	1.88	0.55
2:L:731:ALA:HA	2:L:739:ILE:CD1	2.37	0.55
2:L:895:LEU:HD13	2:L:1034:LEU:HB3	1.89	0.55
2:L:917:ARG:HD3	2:L:921:GLY:O	2.07	0.55
2:L:962:PHE:O	2:L:966:VAL:HG23	2.07	0.55
1:A:332:GLN:O	1:A:335:LEU:HB3	2.06	0.55
1:A:628:TYR:CZ	1:A:630:LYS:HG2	2.42	0.55
1:A:1041:PRO:HA	1:A:1046:PRO:HA	1.89	0.55
1:A:1079:ARG:CG	1:A:1079:ARG:NH1	2.63	0.55
1:A:1702:ARG:HG3	1:A:1702:ARG:NH1	2.07	0.55
1:C:349:MET:HE2	1:C:351:LEU:CD2	2.36	0.55
1:C:415:TYR:O	1:C:419:PHE:HD1	1.90	0.55
1:C:679:LYS:HG2	1:C:708:GLN:CB	2.36	0.55
1:D:701:ARG:NH1	1:D:1610:ARG:HH21	2.05	0.55
1:F:1047:TYR:CZ	1:F:1058:PRO:HB3	2.42	0.55
2:G:573:VAL:HG22	2:G:804:PRO:HB2	1.88	0.55
2:G:857:VAL:HG13	2:G:876:TRP:NE1	2.21	0.55
2:H:621:THR:HG21	2:H:628:ILE:HD12	1.88	0.55
2:H:827:GLN:NE2	2:H:827:GLN:H	2.05	0.55
2:H:962:PHE:O	2:H:966:VAL:HG23	2.07	0.55
2:H:1866:THR:HA	2:H:1869:VAL:CG2	2.37	0.55
2:H:1902:TYR:OH	2:H:1966:ARG:HB2	2.07	0.55
2:H:1964:ASP:O	2:H:1968:HIS:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:144:ARG:HH21	2:I:151:PRO:HA	1.71	0.55
2:I:208:LEU:HD12	2:I:227:ILE:HD11	1.89	0.55
2:I:580:LEU:HD11	2:I:1098:LEU:HB3	1.87	0.55
2:I:613:VAL:HG12	2:I:614:PRO:HD3	1.89	0.55
2:I:1223:SER:CB	2:I:1226:ALA:HB3	2.37	0.55
2:I:1227:LYS:HG2	2:I:1228:LEU:N	2.22	0.55
2:J:101:VAL:O	2:J:105:ILE:HG12	2.07	0.55
2:J:290:VAL:HA	2:J:490:LEU:CD1	2.36	0.55
2:J:743:TRP:CG	2:J:761:ILE:HD11	2.42	0.55
2:J:1517:LEU:HB2	2:J:1521:GLU:HB2	1.88	0.55
2:J:1561:ILE:HB	2:J:1655:HIS:HB3	1.88	0.55
2:J:1574:PRO:HD3	2:J:1611:TYR:CE2	2.42	0.55
2:J:1915:LEU:HD21	2:J:1939:LEU:HD22	1.89	0.55
2:K:447:ALA:O	2:K:451:ILE:HG13	2.07	0.55
2:L:190:TYR:CD1	2:L:201:ILE:HD13	2.38	0.55
2:L:1061:VAL:HG12	2:L:1066:ILE:HD11	1.88	0.55
1:A:504:GLY:O	1:A:926:SER:HB2	2.07	0.55
1:A:1303:LEU:HD23	1:A:1361:VAL:HB	1.89	0.55
1:A:1592:ALA:O	1:A:1593:ASP:C	2.50	0.55
1:B:565:GLN:O	1:B:565:GLN:HG2	2.06	0.55
1:B:621:ASP:CB	1:B:625:ASN:HB2	2.36	0.55
1:B:1037:ASN:CG	1:B:1674:ILE:HG23	2.32	0.55
1:B:1432:ILE:CD1	1:B:1481:GLN:HB3	2.37	0.55
1:B:1640:LYS:HG3	1:B:1641:TYR:N	2.21	0.55
1:D:35:ILE:HD13	2:J:1691:ALA:HB1	1.89	0.55
1:D:558:LEU:HB2	1:D:563:GLN:CG	2.36	0.55
1:D:573:VAL:O	1:D:577:LEU:HG	2.07	0.55
1:D:683:THR:HB	1:D:714:PHE:CB	2.36	0.55
1:D:1005:TRP:CD1	1:D:1561:LEU:HD22	2.42	0.55
1:D:1432:ILE:CD1	1:D:1481:GLN:HB3	2.37	0.55
1:E:1041:PRO:HA	1:E:1046:PRO:HA	1.89	0.55
2:G:609:THR:O	2:G:613:VAL:HB	2.06	0.55
2:G:740:ILE:H	2:G:740:ILE:HD12	1.71	0.55
2:G:1138:ASP:HB2	2:G:1140:ASN:H	1.72	0.55
2:G:1845:VAL:HG21	2:G:1856:LEU:HD22	1.88	0.55
2:I:285:HIS:HD2	2:I:501:TRP:CE3	2.25	0.55
2:I:935:VAL:HG11	2:I:997:LEU:HD21	1.89	0.55
2:I:1290:TYR:CD1	2:I:1299:VAL:HG12	2.41	0.55
2:J:73:VAL:HA	2:J:113:PHE:CE2	2.42	0.55
2:J:126:VAL:HG12	2:J:127:ALA:H	1.72	0.55
2:J:331:LEU:HD22	2:J:396:ILE:HG13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:930:THR:HG22	2:J:933:GLU:CG	2.36	0.55
2:J:1179:GLU:HA	2:J:1190:ASN:CB	2.36	0.55
2:K:949:ARG:HH22	2:K:1052:ASP:CG	2.14	0.55
2:K:1871:VAL:CG2	2:K:2004:PRO:HD3	2.37	0.55
2:L:609:THR:O	2:L:613:VAL:HB	2.07	0.55
2:L:740:ILE:HD12	2:L:740:ILE:H	1.72	0.55
2:L:1602:LEU:HD13	2:L:1606:ILE:CD1	2.37	0.55
2:L:1706:MET:O	2:L:1709:TYR:HB3	2.07	0.55
1:A:335:LEU:C	1:A:335:LEU:HD12	2.31	0.54
1:A:1098:GLN:HB2	1:A:1152:LYS:HE2	1.89	0.54
1:C:349:MET:HE2	1:C:351:LEU:HD23	1.88	0.54
1:D:47:ILE:HB	2:J:1694:PHE:HD1	1.71	0.54
1:D:1052:ASP:HB3	1:D:1055:THR:O	2.07	0.54
1:D:1081:ILE:HA	1:D:1163:GLN:NE2	2.21	0.54
1:E:1344:THR:HG22	1:E:1599:MET:HE3	1.89	0.54
1:F:1536:ASP:N	1:F:1602:PHE:HE1	2.04	0.54
2:G:871:ARG:CZ	2:G:909:ASP:HB3	2.37	0.54
2:G:1586:ASP:OD1	2:G:1588:ASN:HB2	2.06	0.54
2:H:606:ALA:HB2	2:H:811:MET:CG	2.37	0.54
2:H:917:ARG:HD3	2:H:921:GLY:O	2.07	0.54
2:H:1175:MET:HE2	2:H:1234:ILE:HG21	1.87	0.54
2:I:196:PHE:CD2	2:I:266:LYS:HB3	2.41	0.54
2:I:1561:ILE:HB	2:I:1655:HIS:HB3	1.89	0.54
2:I:1706:MET:HE1	2:I:1735:ILE:HG23	1.89	0.54
2:I:1939:LEU:O	2:I:1943:LEU:HG	2.07	0.54
2:J:645:ILE:HD13	2:J:687:ILE:HD11	1.89	0.54
2:J:924:VAL:HG12	2:J:925:ASP:H	1.72	0.54
2:J:1694:PHE:HD2	2:J:1843:ALA:HB2	1.71	0.54
2:K:1142:ILE:HD11	2:K:1209:PRO:HB3	1.89	0.54
2:K:1192:LEU:HD22	2:K:1196:PHE:HE1	1.72	0.54
2:L:144:ARG:HH21	2:L:151:PRO:HA	1.71	0.54
2:L:1142:ILE:HG13	2:L:1209:PRO:HG3	1.89	0.54
1:A:432:GLN:O	1:A:436:ILE:HG13	2.06	0.54
1:B:855:ALA:HA	1:B:919:ARG:NH2	2.21	0.54
1:D:1014:MET:O	1:D:1590:ARG:NH2	2.29	0.54
1:D:1179:ILE:O	1:D:1183:VAL:HG23	2.06	0.54
1:D:1470:ARG:O	1:D:1474:ILE:HG13	2.07	0.54
1:E:1106:LEU:HD23	1:E:1107:GLU:N	2.22	0.54
1:F:81:TYR:HE1	2:L:1821:MET:HE3	1.72	0.54
1:F:526:MET:O	1:F:613:PRO:O	2.25	0.54
1:F:1094:LYS:HB3	1:F:1154:LEU:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:794:GLY:O	2:G:804:PRO:HA	2.08	0.54
2:G:1334:ALA:O	2:G:1342:PHE:HA	2.07	0.54
2:H:895:LEU:HD13	2:H:1034:LEU:HB3	1.89	0.54
2:H:1142:ILE:HD11	2:H:1209:PRO:HB3	1.89	0.54
2:H:1335:PHE:HE1	2:H:1629:ILE:HD13	1.71	0.54
2:H:1621:GLU:OE2	2:H:1629:ILE:HG23	2.08	0.54
2:I:635:TYR:CB	2:I:641:MET:HG3	2.37	0.54
2:I:1097:PHE:CD2	2:I:1100:ARG:NH1	2.75	0.54
2:I:1288:PHE:CE2	2:I:1292:VAL:HG21	2.43	0.54
2:J:606:ALA:HB2	2:J:811:MET:CG	2.37	0.54
2:J:1061:VAL:HG12	2:J:1066:ILE:HD11	1.88	0.54
2:J:1866:THR:HA	2:J:1869:VAL:CG2	2.37	0.54
2:K:713:HIS:CD2	2:K:740:ILE:HD13	2.41	0.54
2:K:723:ALA:O	2:K:726:GLN:HB2	2.07	0.54
2:K:868:LEU:HD13	2:K:1068:GLN:HG3	1.88	0.54
2:K:1602:LEU:HD13	2:K:1606:ILE:CD1	2.37	0.54
2:K:1804:GLN:HG2	2:K:1865:LEU:CD2	2.38	0.54
2:K:1881:TYR:CB	2:K:2004:PRO:HG3	2.37	0.54
2:L:289:ILE:HG22	2:L:490:LEU:HD22	1.89	0.54
2:L:1064:THR:HG22	2:L:1065:CYS:N	2.20	0.54
2:L:1115:TYR:CZ	2:L:1174:ALA:HB2	2.42	0.54
2:L:1402:ASN:ND2	2:L:1416:CYS:HB2	2.23	0.54
1:A:1199:LEU:C	1:A:1201:SER:H	2.15	0.54
1:A:1574:LEU:CD1	1:A:1622:VAL:HG11	2.37	0.54
1:B:47:ILE:HB	2:H:1694:PHE:CD1	2.42	0.54
1:B:1143:ARG:HH21	1:C:356:LYS:NZ	2.06	0.54
1:B:1638:HIS:ND1	1:B:1639:PRO:HD2	2.22	0.54
1:C:628:TYR:CE1	1:C:630:LYS:HG2	2.43	0.54
1:C:651:GLN:HA	1:C:677:GLY:HA3	1.88	0.54
1:C:955:VAL:HG23	2:I:981:GLN:OE1	2.07	0.54
1:C:1536:ASP:N	1:C:1602:PHE:HE1	2.06	0.54
1:C:1647:ASP:HB2	1:C:1649:ALA:HB3	1.88	0.54
1:D:427:ARG:NH1	1:D:492:ILE:CG1	2.71	0.54
1:D:715:ASN:HD22	1:D:717:GLY:H	1.55	0.54
1:D:1230:SER:HA	1:D:1311:GLN:NE2	2.22	0.54
1:E:21:GLN:HE22	2:K:1841:TYR:HE1	1.55	0.54
1:E:406:ALA:CA	1:E:439:ARG:HH11	2.20	0.54
1:E:435:GLN:HG2	1:E:701:ARG:O	2.08	0.54
1:E:439:ARG:O	1:E:444:LEU:HD12	2.07	0.54
1:E:621:ASP:CB	1:E:625:ASN:HB2	2.36	0.54
1:E:890:ASN:OD1	2:H:1755:LYS:HE2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:397:ARG:NH1	1:F:692:THR:HG21	2.22	0.54
1:F:628:TYR:HE1	1:F:630:LYS:HA	1.72	0.54
1:F:962:ASN:HB3	2:L:969:ARG:HD2	1.88	0.54
1:F:1081:ILE:HA	1:F:1163:GLN:NE2	2.21	0.54
2:G:876:TRP:CH2	2:G:1043:LYS:HB2	2.42	0.54
2:G:2052:LYS:HB3	2:G:2074:TRP:CZ2	2.42	0.54
2:H:99:LEU:O	2:H:103:LYS:HG3	2.07	0.54
2:H:731:ALA:HA	2:H:739:ILE:CD1	2.38	0.54
2:H:832:ILE:HA	2:H:868:LEU:HD21	1.89	0.54
2:H:1053:ILE:HD11	2:H:1061:VAL:HG13	1.90	0.54
2:H:1356:ALA:CB	2:H:1397:THR:HG22	2.37	0.54
2:H:2052:LYS:HB3	2:H:2074:TRP:CD2	2.42	0.54
2:I:49:LYS:HA	2:I:79:TYR:HE1	1.72	0.54
2:I:636:TYR:N	2:I:636:TYR:CD1	2.76	0.54
2:I:723:ALA:O	2:I:726:GLN:HB2	2.07	0.54
2:I:1845:VAL:HG21	2:I:1856:LEU:HD22	1.89	0.54
2:J:285:HIS:HD2	2:J:501:TRP:CE3	2.24	0.54
2:J:1142:ILE:HD11	2:J:1209:PRO:HB3	1.88	0.54
2:J:1499:LYS:CG	2:J:1500:ASN:N	2.70	0.54
2:K:24:LEU:HD11	2:K:45:ALA:CB	2.37	0.54
2:K:144:ARG:HH21	2:K:151:PRO:HA	1.71	0.54
2:K:1939:LEU:O	2:K:1943:LEU:HG	2.07	0.54
2:L:31:LEU:HD13	2:L:75:LEU:HD21	1.89	0.54
2:L:600:VAL:HG22	2:L:601:PRO:HD2	1.89	0.54
2:L:1175:MET:HE2	2:L:1234:ILE:HG21	1.88	0.54
2:L:1259:LEU:HB2	2:L:1288:PHE:CE1	2.42	0.54
2:L:1634:SER:HB3	2:L:1684:GLU:HB2	1.88	0.54
1:A:1037:ASN:CG	1:A:1674:ILE:HG23	2.33	0.54
1:A:1426:GLU:HA	1:A:1429:ARG:HB2	1.90	0.54
1:A:1573:MET:HE2	1:A:1622:VAL:HG23	1.90	0.54
1:B:716:GLN:HB3	1:B:769:ILE:HG23	1.90	0.54
1:C:537:ASN:HB3	1:C:585:MET:SD	2.48	0.54
1:C:1160:VAL:HG23	1:C:1327:ALA:HB2	1.88	0.54
1:C:1443:LEU:HD13	1:C:1470:ARG:HB3	1.90	0.54
1:D:965:TYR:CZ	1:D:1199:LEU:HD22	2.42	0.54
1:E:434:ILE:HD11	1:E:490:VAL:HG21	1.89	0.54
1:E:613:PRO:C	1:E:615:LEU:H	2.15	0.54
1:F:18:LEU:HD21	2:L:1844:LEU:CD1	2.37	0.54
1:F:617:LEU:HD11	1:F:636:TYR:HB2	1.89	0.54
1:F:714:PHE:CE1	1:F:725:LEU:HD12	2.42	0.54
2:G:686:PRO:HB3	2:G:1187:PHE:CE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:719:GLY:O	2:G:755:GLU:HG3	2.07	0.54
2:G:1871:VAL:HG21	2:G:2003:VAL:HA	1.89	0.54
2:H:144:ARG:HH21	2:H:151:PRO:HA	1.72	0.54
2:H:448:HIS:HD2	2:H:491:VAL:CG1	2.21	0.54
2:H:458:MET:C	2:H:459:LYS:HG3	2.31	0.54
2:H:752:HIS:CE1	2:H:847:TYR:CE2	2.92	0.54
2:H:1130:ILE:HB	2:H:1133:LEU:HD22	1.89	0.54
2:H:1299:VAL:CG2	2:H:1301:PHE:CE2	2.87	0.54
2:H:1411:LYS:O	2:H:1434:LEU:HD12	2.08	0.54
2:H:1440:THR:O	2:H:1440:THR:HG22	2.07	0.54
2:H:1478:GLN:HG2	2:H:1523:ILE:HG21	1.90	0.54
2:I:77:ALA:O	2:I:139:ALA:HB1	2.07	0.54
2:I:636:TYR:N	2:I:636:TYR:HD1	2.05	0.54
2:I:713:HIS:CD2	2:I:740:ILE:HD13	2.42	0.54
2:I:1142:ILE:HG13	2:I:1209:PRO:HG3	1.90	0.54
2:I:1519:THR:OG1	2:I:1521:GLU:HG2	2.07	0.54
2:I:1960:MET:HB3	2:I:1964:ASP:CB	2.37	0.54
2:J:1356:ALA:CB	2:J:1397:THR:HG22	2.38	0.54
2:K:1247:PHE:HB3	2:K:1256:VAL:CG1	2.37	0.54
2:K:1393:ASP:HB3	2:K:1395:LEU:HD21	1.89	0.54
2:K:1888:PRO:HB3	2:K:1895:PHE:CD1	2.41	0.54
2:L:608:MET:H	2:L:612:THR:CB	2.20	0.54
2:L:765:TYR:CB	2:L:805:MET:HE3	2.36	0.54
2:L:1290:TYR:CD1	2:L:1299:VAL:HG12	2.42	0.54
2:L:1318:ALA:HA	2:L:1391:VAL:CG2	2.38	0.54
2:L:1603:PRO:HB2	2:L:1644:LEU:HD21	1.89	0.54
2:L:1706:MET:HE1	2:L:1735:ILE:HG23	1.90	0.54
2:L:1751:GLY:O	2:L:1755:LYS:HG2	2.08	0.54
2:L:1915:LEU:HD21	2:L:1939:LEU:HD22	1.90	0.54
2:L:1966:ARG:O	2:L:1970:VAL:HG23	2.07	0.54
1:A:415:TYR:O	1:A:419:PHE:HD1	1.91	0.54
1:A:1443:LEU:HD13	1:A:1470:ARG:HB3	1.89	0.54
1:B:586:GLN:C	1:E:538:ARG:NH2	2.65	0.54
1:B:726:VAL:HG21	1:B:780:ALA:HB3	1.88	0.54
1:B:1001:GLU:O	1:B:1002:ILE:HD12	2.08	0.54
1:B:1081:ILE:HA	1:B:1163:GLN:NE2	2.22	0.54
1:D:1603:ASP:HB2	1:D:1604:TYR:CD2	2.43	0.54
1:E:1443:LEU:HD11	1:E:1470:ARG:HB3	1.87	0.54
1:F:682:VAL:HG11	1:F:695:TYR:HE2	1.72	0.54
1:F:1493:PHE:CE2	1:F:1509:THR:HG22	2.43	0.54
2:G:832:ILE:HA	2:G:868:LEU:HD21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1192:LEU:HD22	2:G:1196:PHE:CE1	2.42	0.54
2:G:1804:GLN:HG2	2:G:1865:LEU:HD23	1.90	0.54
2:G:1939:LEU:O	2:G:1943:LEU:HG	2.06	0.54
2:H:24:LEU:HD11	2:H:45:ALA:CB	2.37	0.54
2:H:578:PRO:HG3	2:H:792:LEU:O	2.07	0.54
2:I:24:LEU:HD11	2:I:45:ALA:CB	2.37	0.54
2:I:612:THR:O	2:I:612:THR:HG22	2.08	0.54
2:I:1200:ARG:HD3	2:I:1200:ARG:N	2.22	0.54
2:I:1351:VAL:HG23	2:I:1584:SER:HA	1.90	0.54
2:I:1888:PRO:HB3	2:I:1895:PHE:CD1	2.41	0.54
2:J:521:VAL:O	2:J:526:VAL:HG21	2.08	0.54
2:J:635:TYR:CB	2:J:641:MET:HG3	2.37	0.54
2:J:1902:TYR:OH	2:J:1966:ARG:HB2	2.08	0.54
2:J:2033:SER:HA	2:J:2036:ILE:HD12	1.88	0.54
2:K:578:PRO:HG3	2:K:792:LEU:O	2.08	0.54
2:K:612:THR:HG21	2:K:629:GLU:O	2.08	0.54
2:K:747:ARG:HD3	2:K:1071:VAL:HG11	1.87	0.54
2:K:1440:THR:HG22	2:K:1440:THR:O	2.07	0.54
2:K:1760:ASN:O	2:K:1764:MET:HG2	2.07	0.54
2:K:1866:THR:HA	2:K:1869:VAL:CG2	2.38	0.54
2:K:1871:VAL:CG1	2:K:1872:GLU:N	2.71	0.54
2:L:49:LYS:HA	2:L:79:TYR:HE1	1.73	0.54
1:A:701:ARG:NH1	1:A:1610:ARG:NH2	2.56	0.54
1:A:1097:LEU:CD1	1:E:1149:LEU:HD12	2.38	0.54
1:B:408:GLN:HE22	1:B:1609:SER:H	1.54	0.54
1:B:1565:PRO:HG3	1:B:1572:TRP:CH2	2.43	0.54
1:B:1574:LEU:CD1	1:B:1622:VAL:HG11	2.38	0.54
1:C:414:TYR:O	1:C:418:ILE:HG13	2.08	0.54
1:C:1534:GLU:HG2	1:C:1625:PHE:HE1	1.72	0.54
1:C:1702:ARG:CG	1:C:1702:ARG:NH1	2.51	0.54
1:D:621:ASP:CB	1:D:625:ASN:HB2	2.38	0.54
1:D:623:PHE:N	1:D:623:PHE:CD2	2.74	0.54
1:D:689:ARG:HH21	1:D:1591:ASN:ND2	2.06	0.54
1:E:1099:GLU:HA	1:E:1149:LEU:HD23	1.89	0.54
1:E:1157:ASP:O	1:E:1159:LEU:HD12	2.08	0.54
1:E:1574:LEU:CD1	1:E:1622:VAL:HG11	2.37	0.54
1:F:950:ALA:HA	1:F:953:ARG:CZ	2.37	0.54
1:F:1199:LEU:C	1:F:1201:SER:H	2.15	0.54
1:F:1602:PHE:N	1:F:1602:PHE:HD2	2.05	0.54
2:G:378:ILE:HG23	2:G:391:VAL:HG13	1.90	0.54
2:G:1305:LEU:HD11	2:G:1365:LYS:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1619:LEU:O	2:G:1623:TRP:HB2	2.07	0.54
2:G:1977:ARG:HD2	2:G:1978:LYS:HG3	1.89	0.54
2:H:117:ASN:HA	2:H:561:ARG:HD2	1.88	0.54
2:H:1334:ALA:O	2:H:1342:PHE:HA	2.07	0.54
2:I:832:ILE:HA	2:I:868:LEU:HD21	1.90	0.54
2:I:1499:LYS:CG	2:I:1500:ASN:N	2.70	0.54
2:I:1622:THR:HG23	2:I:1627:ASN:OD1	2.06	0.54
2:I:1804:GLN:HG2	2:I:1865:LEU:CD2	2.38	0.54
2:I:1888:PRO:HG3	2:I:1900:LEU:HD12	1.89	0.54
2:J:24:LEU:HD11	2:J:45:ALA:HB1	1.90	0.54
2:J:31:LEU:HD13	2:J:75:LEU:HD21	1.90	0.54
2:J:458:MET:C	2:J:459:LYS:HG3	2.31	0.54
2:J:775:VAL:O	2:J:777:VAL:HG23	2.07	0.54
2:K:573:VAL:HG22	2:K:804:PRO:HB2	1.90	0.54
2:K:1259:LEU:HB2	2:K:1288:PHE:CE1	2.43	0.54
2:K:1964:ASP:O	2:K:1968:HIS:HB2	2.07	0.54
2:L:856:THR:HG23	2:L:866:HIS:CD2	2.42	0.54
2:L:942:MET:HE3	2:L:1029:PRO:CD	2.37	0.54
2:L:1120:ILE:HD13	2:L:1167:ASN:O	2.08	0.54
1:A:623:PHE:N	1:A:623:PHE:CD2	2.76	0.54
1:A:1005:TRP:CD1	1:A:1561:LEU:HD22	2.41	0.54
1:B:1052:ASP:HB3	1:B:1055:THR:O	2.07	0.54
1:B:1699:PRO:HG2	1:D:1406:GLU:HA	1.90	0.54
1:C:621:ASP:CB	1:C:625:ASN:HB2	2.38	0.54
1:E:15:VAL:HG11	2:K:2022:LEU:HD21	1.89	0.54
1:E:29:ILE:HD11	2:K:1922:VAL:C	2.33	0.54
1:E:767:HIS:CB	1:E:813:LEU:HD12	2.36	0.54
1:F:1218:VAL:HG13	1:F:1301:VAL:CG1	2.37	0.54
2:G:144:ARG:HH21	2:G:151:PRO:HA	1.73	0.54
2:G:186:LEU:HG	2:G:256:VAL:HG22	1.90	0.54
2:G:250:PHE:CB	2:G:251:PRO:HD3	2.38	0.54
2:G:289:ILE:HG22	2:G:490:LEU:HD22	1.90	0.54
2:G:623:ASN:OD1	2:G:653:PRO:HD3	2.07	0.54
2:G:827:GLN:H	2:G:827:GLN:CD	2.15	0.54
2:G:930:THR:HG22	2:G:933:GLU:HG3	1.89	0.54
2:G:1871:VAL:HG21	2:G:2004:PRO:HD3	1.90	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:CD1	2.43	0.54
2:H:1960:MET:HB3	2:H:1964:ASP:CB	2.36	0.54
2:I:934:VAL:O	2:I:938:MET:HG3	2.08	0.54
2:J:388:ASN:HD22	2:J:388:ASN:C	2.15	0.54
2:J:617:PHE:HD1	2:J:822:ALA:HA	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1138:ASP:HB2	2:J:1140:ASN:H	1.73	0.54
2:J:1142:ILE:HG13	2:J:1209:PRO:HG3	1.88	0.54
2:K:289:ILE:HG22	2:K:490:LEU:HD22	1.88	0.54
2:K:636:TYR:N	2:K:636:TYR:HD1	2.05	0.54
2:K:832:ILE:HA	2:K:868:LEU:HD21	1.90	0.54
2:K:868:LEU:O	2:K:870:THR:N	2.40	0.54
2:K:1123:ALA:HB3	2:K:1126:GLU:HG3	1.88	0.54
2:K:1239:ASP:OD1	2:K:1240:ASN:N	2.37	0.54
2:K:1537:GLY:O	2:K:1539:PRO:HD3	2.07	0.54
2:K:1701:GLU:O	2:K:1704:MET:HE2	2.08	0.54
2:L:300:THR:HG22	2:L:302:ASP:H	1.73	0.54
2:L:501:TRP:HZ2	2:L:528:THR:HG21	1.73	0.54
2:L:786:GLU:H	2:L:786:GLU:CD	2.14	0.54
1:A:551:LEU:HD21	1:F:562:SER:CB	2.38	0.54
1:A:613:PRO:HG2	1:A:633:THR:HG21	1.90	0.54
1:B:397:ARG:NH1	1:B:692:THR:HG21	2.23	0.54
1:B:570:TYR:O	1:B:574:ILE:HG12	2.08	0.54
1:B:1148:LEU:CD2	1:D:1150:ILE:HG12	2.38	0.54
1:B:1209:PHE:CZ	1:B:1301:VAL:HG21	2.43	0.54
1:B:1230:SER:HA	1:B:1311:GLN:NE2	2.22	0.54
1:C:29:ILE:HD11	2:I:1922:VAL:C	2.32	0.54
1:C:554:ARG:O	1:C:555:GLN:HG3	2.08	0.54
1:C:1078:ILE:CG2	1:C:1352:MET:HE3	2.38	0.54
1:C:1630:LYS:HD2	1:F:1273:ILE:CD1	2.37	0.54
1:D:439:ARG:O	1:D:444:LEU:HD12	2.07	0.54
1:D:1536:ASP:N	1:D:1602:PHE:HE1	2.06	0.54
1:E:24:MET:HE2	2:K:2043:VAL:HG13	1.90	0.54
1:E:47:ILE:HB	2:K:1694:PHE:HD1	1.72	0.54
1:F:1401:LEU:O	1:F:1401:LEU:HD22	2.07	0.54
2:G:189:ILE:HD13	2:G:259:ALA:HB3	1.90	0.54
2:G:447:ALA:O	2:G:451:ILE:HG13	2.08	0.54
2:G:582:LYS:HA	2:G:587:GLN:O	2.08	0.54
2:G:949:ARG:HH22	2:G:1052:ASP:CG	2.15	0.54
2:G:1130:ILE:HB	2:G:1133:LEU:HD22	1.89	0.54
2:H:699:ILE:N	2:H:699:ILE:HD12	2.23	0.54
2:H:1142:ILE:HG13	2:H:1209:PRO:HG3	1.89	0.54
2:H:1468:ARG:CG	2:H:1468:ARG:NH1	2.53	0.54
2:H:1701:GLU:O	2:H:1704:MET:HE2	2.08	0.54
2:I:48:LEU:HD13	2:I:83:VAL:HG22	1.90	0.54
2:I:1299:VAL:CG2	2:I:1301:PHE:CE2	2.89	0.54
2:J:300:THR:HG22	2:J:302:ASP:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:382:LEU:HB3	2:J:499:VAL:HB	1.90	0.54
2:J:731:ALA:HA	2:J:739:ILE:CD1	2.38	0.54
2:J:743:TRP:CE2	2:J:761:ILE:HD11	2.42	0.54
2:J:1760:ASN:O	2:J:1764:MET:HG2	2.08	0.54
2:J:1966:ARG:O	2:J:1970:VAL:HG23	2.07	0.54
2:K:289:ILE:HG21	2:K:493:MET:HE1	1.88	0.54
2:K:1262:ARG:NH2	2:K:1277:VAL:HG11	2.22	0.54
2:K:1374:VAL:CG2	2:K:1436:ARG:HE	2.21	0.54
2:L:285:HIS:HD2	2:L:501:TRP:CE3	2.25	0.54
1:A:628:TYR:CE1	1:A:630:LYS:HG2	2.43	0.54
1:B:13:LEU:HG	2:H:2048:PHE:CE1	2.43	0.54
1:C:628:TYR:HE1	1:C:630:LYS:HA	1.72	0.54
1:C:1095:GLN:O	1:C:1096:LEU:HD23	2.08	0.54
1:C:1565:PRO:O	1:C:1567:GLY:N	2.41	0.54
1:D:457:THR:HG22	1:D:464:GLN:HA	1.90	0.54
1:D:532:ILE:HD11	1:D:866:LEU:O	2.08	0.54
1:D:726:VAL:HG21	1:D:780:ALA:HB3	1.90	0.54
1:D:843:VAL:HG22	1:D:843:VAL:O	2.08	0.54
1:E:767:HIS:NE2	1:E:771:LEU:HD23	2.22	0.54
1:E:1014:MET:O	1:E:1590:ARG:NH2	2.31	0.54
1:E:1071:TYR:C	1:E:1071:TYR:CD2	2.86	0.54
1:E:1509:THR:HG1	1:E:1510:TRP:CD1	2.26	0.54
2:G:779:GLY:HA3	2:G:811:MET:HE2	1.89	0.54
2:G:1179:GLU:HA	2:G:1190:ASN:CB	2.37	0.54
2:H:635:TYR:CB	2:H:641:MET:HG3	2.38	0.54
2:I:99:LEU:O	2:I:103:LYS:HG3	2.08	0.54
2:I:378:ILE:HG23	2:I:391:VAL:HG13	1.90	0.54
2:I:1315:ILE:H	2:I:1315:ILE:HD12	1.73	0.54
2:J:68:GLU:HB3	2:J:69:PRO:CD	2.36	0.54
2:J:1305:LEU:H	2:J:1305:LEU:HD12	1.73	0.54
2:K:290:VAL:HA	2:K:490:LEU:CD1	2.37	0.54
2:K:416:GLN:HA	2:K:419:ILE:HG13	1.90	0.54
2:K:501:TRP:NE1	2:K:528:THR:HG22	2.07	0.54
2:K:607:GLY:HA2	2:K:612:THR:HG21	1.90	0.54
2:L:101:VAL:O	2:L:105:ILE:HG12	2.08	0.54
2:L:186:LEU:HG	2:L:256:VAL:HG22	1.89	0.54
2:L:578:PRO:HG3	2:L:792:LEU:O	2.07	0.54
2:L:617:PHE:HD1	2:L:822:ALA:HA	1.73	0.54
2:L:823:HIS:HB3	2:L:1051:GLU:HG3	1.90	0.54
2:L:934:VAL:O	2:L:938:MET:HG3	2.07	0.54
2:L:2052:LYS:HB3	2:L:2074:TRP:CD2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:726:VAL:HG21	1:A:780:ALA:HB3	1.89	0.54
1:A:918:LEU:O	1:A:921:GLU:HG3	2.08	0.54
1:B:540:LYS:HE2	1:B:610:GLU:HG3	1.89	0.54
1:B:962:ASN:HB3	2:H:969:ARG:HD2	1.90	0.54
1:B:1414:PRO:HD2	1:D:1473:HIS:CD2	2.42	0.54
1:B:1647:ASP:HB2	1:B:1649:ALA:HB3	1.89	0.54
1:B:1686:PRO:HB2	1:B:1713:PHE:HD2	1.73	0.54
1:C:439:ARG:O	1:C:444:LEU:HD12	2.07	0.54
1:C:965:TYR:HE1	1:C:1669:PHE:CD1	2.25	0.54
1:D:613:PRO:C	1:D:615:LEU:H	2.16	0.54
1:D:1106:LEU:HD23	1:D:1107:GLU:N	2.23	0.54
1:E:457:THR:HG22	1:E:464:GLN:HA	1.88	0.54
1:E:1443:LEU:HD13	1:E:1470:ARG:HB3	1.90	0.54
2:G:350:MET:HG3	2:G:435:ILE:CG2	2.38	0.54
2:G:487:ILE:CB	2:G:488:PRO:HD3	2.36	0.54
2:G:617:PHE:HD1	2:G:822:ALA:HA	1.73	0.54
2:G:1171:TRP:HB3	2:G:1265:TYR:CE1	2.41	0.54
2:H:1130:ILE:HG21	2:H:1155:PRO:HB3	1.89	0.54
2:I:119:VAL:HA	2:I:122:ILE:HG22	1.90	0.54
2:I:747:ARG:NH1	2:I:780:SER:O	2.41	0.54
2:I:942:MET:HE3	2:I:1029:PRO:CD	2.37	0.54
2:I:1871:VAL:CG1	2:I:1872:GLU:N	2.70	0.54
2:J:49:LYS:HA	2:J:79:TYR:HE1	1.72	0.54
2:J:467:ILE:CG2	2:J:468:PRO:HD2	2.37	0.54
2:J:1099:LEU:HD12	2:J:1103:TYR:HB2	1.90	0.54
2:J:1288:PHE:CE2	2:J:1292:VAL:HG21	2.43	0.54
2:J:1883:MET:HB2	2:J:2001:ILE:HD12	1.90	0.54
2:K:1966:ARG:O	2:K:1970:VAL:HG23	2.06	0.54
2:L:347:PRO:HA	2:L:432:PHE:CD1	2.43	0.54
2:L:382:LEU:HB3	2:L:499:VAL:HB	1.90	0.54
2:L:607:GLY:HA2	2:L:612:THR:HG21	1.90	0.54
2:L:926:LEU:O	2:L:1008:ILE:HD11	2.08	0.54
2:L:1334:ALA:O	2:L:1342:PHE:HA	2.07	0.54
2:L:1694:PHE:HD2	2:L:1843:ALA:HB2	1.72	0.54
1:A:1390:GLY:O	1:E:1264:MET:HB3	2.08	0.53
1:B:950:ALA:HA	1:B:953:ARG:CZ	2.38	0.53
1:C:397:ARG:HH11	1:C:692:THR:HG21	1.73	0.53
1:D:628:TYR:CE1	1:D:630:LYS:HG2	2.43	0.53
1:D:653:LYS:HD3	1:D:742:TYR:HE2	1.71	0.53
1:E:613:PRO:O	1:E:614:PHE:HB2	2.07	0.53
1:F:890:ASN:OD1	2:G:1755:LYS:HE2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:24:LEU:HD11	2:G:45:ALA:CB	2.38	0.53
2:G:917:ARG:HD3	2:G:921:GLY:O	2.08	0.53
2:G:1305:LEU:HD23	2:G:1366:ILE:HD11	1.90	0.53
2:G:1868:GLN:HG2	2:G:1873:ARG:HH22	1.73	0.53
2:G:2052:LYS:HD3	2:G:2074:TRP:CE2	2.44	0.53
2:H:215:TRP:N	2:H:215:TRP:CE3	2.76	0.53
2:H:1888:PRO:HB3	2:H:1895:PHE:CD1	2.42	0.53
2:J:1977:ARG:HD2	2:J:1978:LYS:HG3	1.89	0.53
2:K:600:VAL:HG13	2:K:601:PRO:N	2.24	0.53
2:K:636:TYR:N	2:K:636:TYR:CD1	2.75	0.53
2:K:781:GLY:HA2	2:K:1071:VAL:CG1	2.35	0.53
2:K:917:ARG:HD3	2:K:921:GLY:O	2.08	0.53
2:K:924:VAL:HG12	2:K:925:ASP:H	1.73	0.53
2:K:1115:TYR:OH	2:K:1173:HIS:HD2	1.90	0.53
2:K:1142:ILE:HG13	2:K:1209:PRO:HG3	1.90	0.53
1:A:415:TYR:CE2	1:A:1614:THR:HB	2.43	0.53
1:A:577:LEU:HD13	1:A:579:MET:HE2	1.90	0.53
1:B:59:ARG:NH1	2:H:1925:MET:HE2	2.23	0.53
1:C:358:PHE:C	1:C:358:PHE:CD2	2.86	0.53
1:C:918:LEU:O	1:C:921:GLU:HG3	2.08	0.53
1:C:1213:VAL:HG22	1:C:1300:ARG:NH2	2.17	0.53
1:C:1606:VAL:O	1:C:1608:PRO:HD3	2.09	0.53
1:D:950:ALA:HA	1:D:953:ARG:CZ	2.38	0.53
1:E:27:ARG:HG3	2:K:2045:ALA:HB2	1.90	0.53
1:E:623:PHE:CD2	1:E:623:PHE:N	2.75	0.53
1:E:1647:ASP:HB2	1:E:1649:ALA:HB3	1.90	0.53
1:F:997:THR:HB	1:F:1363:MET:HE2	1.91	0.53
2:G:350:MET:HG3	2:G:435:ILE:HB	1.90	0.53
2:H:43:PHE:CZ	2:I:42:HIS:NE2	2.76	0.53
2:H:501:TRP:NE1	2:H:528:THR:HG22	2.10	0.53
2:H:914:TRP:HE1	2:H:916:GLY:HA3	1.74	0.53
2:H:1335:PHE:CE1	2:H:1629:ILE:CD1	2.91	0.53
2:H:1745:LEU:HD12	2:H:1746:THR:N	2.23	0.53
2:I:827:GLN:H	2:I:827:GLN:CD	2.15	0.53
2:I:895:LEU:HD13	2:I:1034:LEU:HB3	1.90	0.53
2:I:916:GLY:HA2	2:I:929:MET:HE1	1.88	0.53
2:J:24:LEU:HD11	2:J:45:ALA:CB	2.38	0.53
2:J:1305:LEU:HD23	2:J:1366:ILE:HD11	1.89	0.53
2:J:1519:THR:OG1	2:J:1521:GLU:HG2	2.08	0.53
2:K:60:THR:HG22	2:K:62:GLU:H	1.74	0.53
2:K:106:LEU:HD11	2:K:143:GLY:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:374:GLU:CA	2:K:377:HIS:HD2	2.10	0.53
2:K:957:LYS:HE2	2:K:1022:ARG:HH22	1.73	0.53
2:K:1130:ILE:HG21	2:K:1155:PRO:HB3	1.90	0.53
2:L:779:GLY:HA3	2:L:811:MET:CE	2.38	0.53
2:L:942:MET:HE3	2:L:1029:PRO:HD3	1.90	0.53
1:A:827:ARG:NH1	1:A:831:GLU:OE2	2.41	0.53
1:B:1444:GLN:OE1	1:B:1444:GLN:HA	2.07	0.53
1:D:1099:GLU:HA	1:D:1149:LEU:HD23	1.91	0.53
1:D:1565:PRO:O	1:D:1567:GLY:N	2.40	0.53
1:F:555:GLN:HG2	1:F:557:ARG:NH2	2.23	0.53
1:F:1670:HIS:ND1	2:L:1009:ASN:ND2	2.57	0.53
2:G:1602:LEU:HD13	2:G:1606:ILE:CD1	2.39	0.53
2:H:31:LEU:HD13	2:H:75:LEU:HD21	1.89	0.53
2:H:347:PRO:HA	2:H:432:PHE:CD1	2.44	0.53
2:H:1289:TYR:HB2	2:H:1370:LEU:HD23	1.89	0.53
2:H:1619:LEU:O	2:H:1623:TRP:HB2	2.08	0.53
2:I:818:THR:HA	2:I:829:LYS:HG2	1.90	0.53
2:I:845:ASN:HD21	2:I:849:ARG:HH11	1.56	0.53
2:I:1247:PHE:HB3	2:I:1256:VAL:CG1	2.39	0.53
2:J:268:LEU:HD12	2:J:275:LEU:CD1	2.38	0.53
2:J:685:VAL:HG23	2:J:1186:ARG:HH12	1.71	0.53
2:K:186:LEU:HD21	2:K:256:VAL:HG22	1.89	0.53
2:K:411:PRO:HD2	2:K:414:LEU:CD1	2.39	0.53
2:K:1335:PHE:HE1	2:K:1629:ILE:CD1	2.21	0.53
2:K:1464:LEU:HD13	2:K:1464:LEU:C	2.33	0.53
2:L:930:THR:HG22	2:L:933:GLU:HG3	1.89	0.53
2:L:1701:GLU:O	2:L:1704:MET:HE2	2.07	0.53
2:L:1873:ARG:NH1	2:L:2002:ASP:HB3	2.23	0.53
2:L:1964:ASP:O	2:L:1968:HIS:HB2	2.08	0.53
2:L:2033:SER:HA	2:L:2036:ILE:HD12	1.89	0.53
1:A:415:TYR:CD2	1:A:1614:THR:HA	2.43	0.53
1:A:421:ARG:HH22	1:A:1613:LYS:CG	2.21	0.53
1:A:1501:ALA:O	1:A:1504:ARG:HB2	2.09	0.53
1:B:41:THR:HG22	2:H:1689:VAL:HG12	1.90	0.53
1:B:397:ARG:HH11	1:B:692:THR:HG21	1.74	0.53
1:B:498:THR:HG22	1:B:508:TYR:HD1	1.73	0.53
1:C:443:LEU:HD12	1:C:443:LEU:H	1.73	0.53
1:C:570:TYR:O	1:C:574:ILE:HG12	2.09	0.53
1:D:1157:ASP:O	1:D:1159:LEU:HD12	2.08	0.53
1:D:1553:VAL:HG22	1:D:1604:TYR:O	2.07	0.53
1:E:397:ARG:NH1	1:E:692:THR:HG21	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:549:TYR:O	1:E:553:ARG:HB3	2.09	0.53
1:F:1020:PHE:CE2	1:F:1028:MET:HG3	2.43	0.53
2:G:289:ILE:HG21	2:G:493:MET:HE1	1.90	0.53
2:G:699:ILE:HD12	2:G:699:ILE:N	2.24	0.53
2:G:1067:LEU:HB2	3:G:2101:FMN:HM72	1.90	0.53
2:G:1537:GLY:O	2:G:1539:PRO:HD3	2.09	0.53
2:G:1964:ASP:O	2:G:1968:HIS:HB2	2.08	0.53
2:H:215:TRP:CE3	2:H:216:ASP:N	2.66	0.53
2:H:240:THR:O	2:H:244:VAL:HG23	2.08	0.53
2:H:573:VAL:CG2	2:H:804:PRO:HB2	2.38	0.53
2:H:845:ASN:HD21	2:H:849:ARG:HH11	1.55	0.53
2:H:931:TYR:O	2:H:935:VAL:HG12	2.07	0.53
2:I:1192:LEU:HD22	2:I:1196:PHE:CE1	2.43	0.53
2:J:1091:HIS:O	2:J:1094:HIS:HB2	2.07	0.53
2:J:1338:ARG:NH2	2:L:327:PRO:O	2.36	0.53
2:K:645:ILE:HD13	2:K:687:ILE:HD11	1.90	0.53
2:K:930:THR:HG22	2:K:933:GLU:CG	2.38	0.53
2:L:350:MET:HG3	2:L:435:ILE:CG2	2.38	0.53
2:L:765:TYR:CG	2:L:805:MET:HE3	2.43	0.53
2:L:1726:PHE:CZ	2:L:1857:VAL:HB	2.44	0.53
1:A:421:ARG:HH22	1:A:1613:LYS:CB	2.21	0.53
1:A:616:HIS:C	1:A:617:LEU:HD23	2.34	0.53
1:A:950:ALA:HA	1:A:953:ARG:CZ	2.37	0.53
1:A:1488:SER:O	1:E:1480:ARG:NH2	2.41	0.53
1:B:621:ASP:HB3	1:B:625:ASN:H	1.72	0.53
1:C:332:GLN:O	1:C:335:LEU:HB3	2.09	0.53
1:C:1483:ALA:HA	1:C:1486:GLN:HE21	1.72	0.53
1:D:768:ARG:HA	1:D:772:THR:OG1	2.09	0.53
1:E:332:GLN:O	1:E:335:LEU:HB3	2.09	0.53
1:E:432:GLN:O	1:E:436:ILE:HG13	2.08	0.53
1:E:628:TYR:CZ	1:E:630:LYS:HG2	2.44	0.53
1:E:907:PHE:O	1:E:909:PRO:HD3	2.08	0.53
1:F:358:PHE:C	1:F:358:PHE:CD2	2.87	0.53
2:G:314:LEU:HG	2:G:318:ILE:HD11	1.91	0.53
2:G:924:VAL:HG12	2:G:925:ASP:H	1.73	0.53
2:G:1466:VAL:O	2:G:1470:LYS:HG2	2.08	0.53
2:G:1706:MET:O	2:G:1709:TYR:HB3	2.08	0.53
2:H:2052:LYS:HB3	2:H:2074:TRP:CZ2	2.43	0.53
2:I:246:ALA:HB3	2:I:247:PRO:HD3	1.89	0.53
2:I:268:LEU:HD12	2:I:275:LEU:CD1	2.39	0.53
2:I:578:PRO:HG3	2:I:792:LEU:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:579:ARG:HB2	2:I:591:ASP:HB3	1.91	0.53
2:J:119:VAL:HA	2:J:122:ILE:HG22	1.90	0.53
2:J:487:ILE:CB	2:J:488:PRO:HD3	2.37	0.53
2:J:612:THR:HG22	2:J:612:THR:O	2.09	0.53
2:J:1276:GLU:OE1	2:J:1278:MET:HE1	2.09	0.53
2:J:1802:ALA:HB1	2:J:1804:GLN:NE2	2.17	0.53
2:K:378:ILE:HG23	2:K:391:VAL:HG13	1.90	0.53
2:K:1285:ILE:O	2:K:1288:PHE:HB3	2.08	0.53
2:K:1944:ASN:HA	2:K:1993:PHE:CD1	2.44	0.53
2:L:24:LEU:HD11	2:L:45:ALA:CB	2.38	0.53
2:L:1178:THR:HG22	2:L:1180:VAL:H	1.74	0.53
2:L:1440:THR:O	2:L:1440:THR:HG22	2.08	0.53
2:L:1519:THR:OG1	2:L:1521:GLU:HG2	2.08	0.53
2:L:1915:LEU:HB2	2:L:1935:ALA:HB1	1.90	0.53
1:A:29:ILE:HD11	2:G:1923:ALA:N	2.23	0.53
1:A:628:TYR:HE1	1:A:630:LYS:HA	1.74	0.53
1:A:907:PHE:CE1	1:F:579:MET:HE3	2.43	0.53
1:B:1218:VAL:HG13	1:B:1301:VAL:HG13	1.91	0.53
1:B:1602:PHE:N	1:B:1602:PHE:HD2	2.06	0.53
1:C:1052:ASP:HB3	1:C:1055:THR:O	2.08	0.53
1:D:29:ILE:HD11	2:J:1922:VAL:CA	2.38	0.53
1:D:1164:ILE:CD1	1:D:1355:GLN:HG3	2.38	0.53
1:D:1214:HIS:CD2	1:D:1216:SER:OG	2.56	0.53
1:D:1401:LEU:O	1:D:1401:LEU:HD22	2.08	0.53
1:E:1587:PRO:HA	1:E:1611:SER:OG	2.09	0.53
1:F:409:ASP:CG	1:F:701:ARG:NH1	2.67	0.53
2:G:636:TYR:N	2:G:636:TYR:HD1	2.07	0.53
2:G:1962:LEU:O	2:G:1966:ARG:HB3	2.08	0.53
2:H:786:GLU:H	2:H:786:GLU:CD	2.17	0.53
2:H:1586:ASP:OD1	2:H:1588:ASN:HB2	2.08	0.53
2:I:228:LEU:O	2:I:232:HIS:HD2	1.91	0.53
2:I:1194:ARG:HD2	2:I:1598:SER:O	2.09	0.53
2:I:1760:ASN:O	2:I:1764:MET:HG2	2.08	0.53
2:J:120:HIS:CD2	2:J:137:VAL:HG11	2.43	0.53
2:J:636:TYR:N	2:J:636:TYR:HD1	2.07	0.53
2:J:855:ILE:HD13	2:J:856:THR:N	2.23	0.53
2:J:1053:ILE:HD11	2:J:1061:VAL:HG13	1.89	0.53
2:J:1130:ILE:HG21	2:J:1155:PRO:HB3	1.88	0.53
2:K:580:LEU:HD11	2:K:1098:LEU:HB3	1.89	0.53
2:K:603:VAL:HG22	2:K:810:CYS:SG	2.49	0.53
2:K:942:MET:HE3	2:K:1029:PRO:HD3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1206:ILE:O	2:K:1209:PRO:HG3	2.09	0.53
2:K:1343:PHE:CE2	2:K:1388:PRO:HD2	2.43	0.53
2:L:931:TYR:O	2:L:935:VAL:HG12	2.09	0.53
2:L:1276:GLU:OE1	2:L:1278:MET:HE1	2.09	0.53
2:L:1411:LYS:O	2:L:1434:LEU:HD12	2.09	0.53
1:A:532:ILE:O	1:F:575:ARG:NH2	2.41	0.53
1:A:1268:SER:CB	1:E:1389:ILE:HG13	2.14	0.53
1:A:1443:LEU:HD11	1:A:1470:ARG:HB3	1.90	0.53
1:B:1001:GLU:C	1:B:1002:ILE:HD12	2.34	0.53
1:B:1150:ILE:HG12	1:D:1148:LEU:HD21	1.90	0.53
1:C:992:LYS:HE2	1:F:1495:ARG:NH1	2.24	0.53
1:D:1443:LEU:HD13	1:D:1470:ARG:HB3	1.90	0.53
1:E:36:LEU:CD2	1:E:44:ILE:HD11	2.38	0.53
1:E:573:VAL:O	1:E:577:LEU:HG	2.08	0.53
1:E:827:ARG:NH1	1:E:831:GLU:OE2	2.41	0.53
1:E:1164:ILE:HD13	1:E:1355:GLN:HG3	1.91	0.53
1:F:1505:GLY:O	1:F:1509:THR:HG23	2.08	0.53
2:G:186:LEU:CD2	2:G:256:VAL:HG22	2.38	0.53
2:G:723:ALA:O	2:G:726:GLN:HB2	2.08	0.53
2:G:911:GLN:NE2	2:G:1065:CYS:H	2.06	0.53
2:G:962:PHE:O	2:G:966:VAL:HG23	2.09	0.53
2:G:1405:ILE:HG22	2:G:1445:THR:OG1	2.09	0.53
2:G:1701:GLU:O	2:G:1704:MET:HE2	2.09	0.53
2:H:1802:ALA:HB1	2:H:1804:GLN:NE2	2.18	0.53
2:J:1726:PHE:CZ	2:J:1857:VAL:HB	2.44	0.53
2:K:833:VAL:HG13	2:K:1077:LYS:HA	1.91	0.53
2:K:1603:PRO:HB2	2:K:1644:LEU:HD21	1.90	0.53
2:K:1918:VAL:HG13	2:K:2006:HIS:CB	2.38	0.53
2:L:487:ILE:CB	2:L:488:PRO:HD3	2.37	0.53
2:L:718:PRO:HG3	2:L:727:VAL:HG21	1.90	0.53
2:L:1764:MET:CE	2:L:1865:LEU:HD12	2.39	0.53
1:A:1099:GLU:HA	1:A:1149:LEU:HD23	1.90	0.53
1:B:1425:LEU:CD2	1:B:1429:ARG:HH21	2.16	0.53
1:C:427:ARG:HD2	1:C:490:VAL:HG12	1.90	0.53
1:D:1534:GLU:HG2	1:D:1625:PHE:CE1	2.43	0.53
1:E:421:ARG:HH22	1:E:1613:LYS:HG3	1.72	0.53
1:E:621:ASP:HB3	1:E:625:ASN:HB2	1.91	0.53
1:F:64:LYS:HE3	2:L:1923:ALA:CB	2.39	0.53
2:G:396:ILE:H	2:G:396:ILE:CD1	2.20	0.53
2:G:1067:LEU:HD12	2:G:1067:LEU:N	2.24	0.53
2:G:1154:LEU:HD13	2:G:1198:PRO:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1299:VAL:CG2	2:G:1301:PHE:CE2	2.91	0.53
2:G:1404:VAL:O	2:G:1445:THR:HA	2.09	0.53
2:H:73:VAL:HA	2:H:113:PHE:CE2	2.44	0.53
2:H:636:TYR:N	2:H:636:TYR:HD1	2.06	0.53
2:H:723:ALA:O	2:H:726:GLN:HB2	2.09	0.53
2:H:949:ARG:HH22	2:H:1052:ASP:CG	2.17	0.53
2:H:1259:LEU:HB2	2:H:1288:PHE:CE1	2.44	0.53
2:I:467:ILE:CG2	2:I:468:PRO:HD2	2.37	0.53
2:I:719:GLY:O	2:I:755:GLU:HG3	2.08	0.53
2:I:740:ILE:HD12	2:I:740:ILE:H	1.73	0.53
2:I:949:ARG:HH22	2:I:1052:ASP:CG	2.17	0.53
2:I:1305:LEU:HD12	2:I:1305:LEU:H	1.73	0.53
2:I:2052:LYS:HB3	2:I:2074:TRP:CZ2	2.44	0.53
2:J:228:LEU:O	2:J:232:HIS:HD2	1.91	0.53
2:J:251:PRO:CG	2:J:316:PHE:HA	2.35	0.53
2:J:713:HIS:CD2	2:J:740:ILE:HD13	2.44	0.53
2:J:783:GLY:HA2	2:J:815:ARG:HD3	1.91	0.53
2:J:786:GLU:CD	2:J:786:GLU:H	2.17	0.53
2:J:1031:VAL:HG22	2:J:1041:TRP:HB3	1.91	0.53
2:J:1130:ILE:HB	2:J:1133:LEU:HD22	1.90	0.53
2:J:1346:MET:HE3	2:J:1617:ARG:HH22	1.74	0.53
2:J:2052:LYS:HD3	2:J:2074:TRP:HE1	1.72	0.53
2:K:49:LYS:HA	2:K:79:TYR:HE1	1.73	0.53
2:K:258:LEU:CD1	2:K:291:VAL:HG13	2.39	0.53
2:K:487:ILE:CB	2:K:488:PRO:HD3	2.37	0.53
2:K:663:ILE:H	2:K:663:ILE:CD1	2.21	0.53
2:K:857:VAL:HG11	2:K:876:TRP:CD1	2.44	0.53
2:K:857:VAL:CG2	2:K:877:LYS:HB2	2.39	0.53
2:K:979:LEU:HD21	2:K:999:ALA:CB	2.37	0.53
2:K:1594:ARG:NH1	2:K:1594:ARG:CG	2.63	0.53
2:L:119:VAL:HA	2:L:122:ILE:HG22	1.91	0.53
2:L:228:LEU:O	2:L:232:HIS:HD2	1.92	0.53
2:L:784:GLY:HA3	2:L:786:GLU:OE2	2.09	0.53
2:L:1097:PHE:CD2	2:L:1100:ARG:NH1	2.77	0.53
1:A:36:LEU:CD2	1:A:44:ILE:HD11	2.39	0.53
1:A:532:ILE:HG21	1:A:907:PHE:CB	2.34	0.53
1:A:1388:LYS:HD3	1:E:1692:GLN:NE2	2.23	0.53
1:E:628:TYR:CE1	1:E:630:LYS:HG2	2.44	0.53
1:F:397:ARG:HH11	1:F:692:THR:HG21	1.73	0.53
2:H:27:THR:HG22	2:H:32:GLU:CD	2.34	0.53
2:H:1915:LEU:HB2	2:H:1935:ALA:HB1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1966:ARG:O	2:H:1970:VAL:HG23	2.09	0.53
2:I:501:TRP:CZ2	2:I:528:THR:HG21	2.43	0.53
2:J:1475:LEU:HA	2:J:1526:ALA:HB2	1.91	0.53
2:J:1764:MET:HE3	2:J:1865:LEU:HD12	1.91	0.53
2:K:480:GLU:O	2:K:480:GLU:HG2	2.08	0.53
2:K:778:ALA:HB2	2:K:807:PHE:CD2	2.44	0.53
2:K:942:MET:HE3	2:K:1029:PRO:CD	2.38	0.53
2:L:608:MET:HE1	2:L:817:MET:HG2	1.91	0.53
1:A:549:TYR:O	1:A:553:ARG:HB3	2.08	0.53
1:D:961:ALA:O	2:J:969:ARG:NH1	2.42	0.53
1:E:397:ARG:HH11	1:E:692:THR:HG21	1.73	0.53
1:E:1592:ALA:O	1:E:1593:ASP:C	2.52	0.53
1:F:573:VAL:O	1:F:577:LEU:HG	2.09	0.53
2:G:24:LEU:HD11	2:G:45:ALA:HB1	1.91	0.53
2:G:578:PRO:HG3	2:G:792:LEU:O	2.08	0.53
2:G:635:TYR:CB	2:G:641:MET:HG3	2.38	0.53
2:G:833:VAL:HG13	2:G:1077:LYS:HA	1.91	0.53
2:G:867:LYS:HD3	2:G:1065:CYS:SG	2.49	0.53
2:G:2033:SER:HA	2:G:2036:ILE:HD12	1.89	0.53
2:H:600:VAL:HG13	2:H:601:PRO:N	2.24	0.53
2:I:101:VAL:O	2:I:105:ILE:HG12	2.09	0.53
2:I:289:ILE:HG22	2:I:490:LEU:HD22	1.90	0.53
2:I:447:ALA:O	2:I:451:ILE:HG13	2.09	0.53
2:I:1868:GLN:HG2	2:I:1873:ARG:NH2	2.24	0.53
2:I:1904:VAL:HG22	2:I:1939:LEU:HD22	1.92	0.53
2:J:416:GLN:HA	2:J:419:ILE:HG13	1.91	0.53
2:J:472:THR:HG23	2:J:499:VAL:HA	1.90	0.53
2:J:942:MET:HE3	2:J:1029:PRO:CD	2.39	0.53
2:J:1015:HIS:NE2	2:J:1019:LEU:HD11	2.23	0.53
2:J:1160:PHE:O	2:J:1164:ILE:HG13	2.09	0.53
2:K:268:LEU:HD12	2:K:275:LEU:CD1	2.39	0.53
2:K:327:PRO:CD	2:L:1338:ARG:NH2	2.68	0.53
2:K:486:ILE:O	2:K:490:LEU:HG	2.09	0.53
2:K:612:THR:CG2	2:K:629:GLU:O	2.57	0.53
2:K:1402:ASN:ND2	2:K:1416:CYS:HB2	2.23	0.53
2:K:1767:GLU:HB2	2:K:2016:PRO:HG3	1.91	0.53
2:L:227:ILE:HD13	2:L:252:LEU:HD13	1.91	0.53
2:L:779:GLY:HA3	2:L:811:MET:HE2	1.89	0.53
2:L:1179:GLU:CD	2:L:1179:GLU:N	2.66	0.53
2:L:1884:CYS:HB3	2:L:1936:LEU:CD1	2.39	0.53
1:A:18:LEU:HD21	2:G:1844:LEU:CD1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:28:TRP:CZ2	1:A:53:LEU:HD22	2.44	0.52
1:A:1081:ILE:HA	1:A:1163:GLN:HE22	1.74	0.52
1:A:1150:ILE:HG12	1:E:1148:LEU:HD21	1.91	0.52
1:A:1157:ASP:O	1:A:1159:LEU:HD12	2.09	0.52
1:A:1164:ILE:CD1	1:A:1355:GLN:HG3	2.39	0.52
1:A:1647:ASP:HB2	1:A:1649:ALA:HB3	1.90	0.52
1:B:36:LEU:CD2	1:B:44:ILE:HD11	2.38	0.52
1:B:439:ARG:O	1:B:444:LEU:HD12	2.09	0.52
1:B:628:TYR:HE1	1:B:630:LYS:HA	1.74	0.52
1:C:636:TYR:HB2	1:C:888:ILE:HD11	1.91	0.52
1:C:907:PHE:O	1:C:909:PRO:HD3	2.09	0.52
1:C:950:ALA:HA	1:C:953:ARG:CZ	2.38	0.52
1:C:1431:GLN:HG2	1:F:1431:GLN:OE1	2.09	0.52
1:C:1432:ILE:CD1	1:C:1481:GLN:HB3	2.39	0.52
1:C:1685:ALA:HB1	1:C:1686:PRO:CD	2.39	0.52
1:E:498:THR:HG21	1:E:858:LEU:O	2.10	0.52
1:F:653:LYS:HD3	1:F:742:TYR:HE2	1.74	0.52
1:F:1432:ILE:CD1	1:F:1481:GLN:HB3	2.39	0.52
2:G:155:ASP:HB3	2:G:270:ARG:HH21	1.74	0.52
2:G:1285:ILE:O	2:G:1288:PHE:HB3	2.07	0.52
2:G:1305:LEU:H	2:G:1305:LEU:CD1	2.23	0.52
2:H:581:VAL:HG11	2:H:1113:ILE:HD11	1.91	0.52
2:H:1393:ASP:HB3	2:H:1395:LEU:HD21	1.91	0.52
2:H:1764:MET:HB3	2:H:1780:ILE:CD1	2.39	0.52
2:H:1871:VAL:CG1	2:H:1872:GLU:N	2.72	0.52
2:I:22:ARG:CG	2:I:39:THR:HA	2.39	0.52
2:I:1064:THR:HG22	2:I:1065:CYS:N	2.24	0.52
2:I:1067:LEU:N	2:I:1067:LEU:HD12	2.24	0.52
2:I:1334:ALA:O	2:I:1342:PHE:HA	2.09	0.52
2:I:1658:MET:HE2	2:I:1826:LEU:HD23	1.91	0.52
2:I:2033:SER:HA	2:I:2036:ILE:HD12	1.92	0.52
2:J:573:VAL:HG22	2:J:804:PRO:HB2	1.91	0.52
2:J:930:THR:HG22	2:J:933:GLU:HG3	1.90	0.52
2:J:1334:ALA:O	2:J:1342:PHE:HA	2.08	0.52
2:J:1393:ASP:HB3	2:J:1395:LEU:HD21	1.90	0.52
2:J:1475:LEU:HD11	2:J:1483:LEU:HD11	1.91	0.52
2:K:388:ASN:C	2:K:388:ASN:HD22	2.17	0.52
2:K:468:PRO:HD3	2:K:479:ARG:HH21	1.73	0.52
2:K:1411:LYS:O	2:K:1434:LEU:HD12	2.08	0.52
2:L:108:GLU:HA	2:L:111:ARG:HD2	1.90	0.52
2:L:250:PHE:CB	2:L:251:PRO:HD3	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:699:ILE:HD12	2:L:699:ILE:N	2.24	0.52
2:L:1141:LYS:HE2	2:L:1143:SER:HB2	1.91	0.52
2:L:1516:GLU:HA	2:L:1521:GLU:O	2.09	0.52
1:A:551:LEU:CD2	1:F:562:SER:HB3	2.39	0.52
1:A:612:ILE:HG12	1:A:628:TYR:CD2	2.43	0.52
1:B:527:ALA:HB2	1:B:637:LEU:HD22	1.91	0.52
1:C:406:ALA:CA	1:C:439:ARG:HH11	2.22	0.52
1:D:788:ARG:HB2	1:D:790:TYR:CD2	2.44	0.52
1:D:883:LEU:N	1:D:883:LEU:HD23	2.24	0.52
1:D:1142:LEU:HD12	1:D:1142:LEU:N	2.23	0.52
1:E:349:MET:HE2	1:E:351:LEU:HD23	1.91	0.52
1:E:1047:TYR:CZ	1:E:1058:PRO:HB3	2.44	0.52
1:E:1444:GLN:OE1	1:E:1444:GLN:HA	2.08	0.52
1:F:415:TYR:O	1:F:419:PHE:HD1	1.92	0.52
1:F:918:LEU:O	1:F:921:GLU:HG3	2.10	0.52
2:G:1194:ARG:NH2	2:G:1601:ASN:OD1	2.42	0.52
2:I:411:PRO:HD2	2:I:414:LEU:CD1	2.38	0.52
2:I:452:LEU:HD21	2:I:488:PRO:HA	1.91	0.52
2:I:1154:LEU:HD13	2:I:1198:PRO:HB3	1.92	0.52
2:I:1726:PHE:CZ	2:I:1857:VAL:HB	2.44	0.52
2:J:186:LEU:HG	2:J:256:VAL:HG22	1.90	0.52
2:K:170:TYR:CE2	2:K:507:PHE:HB3	2.44	0.52
2:K:942:MET:CE	2:K:955:LEU:HB3	2.33	0.52
2:K:1745:LEU:HD12	2:K:1746:THR:N	2.24	0.52
2:L:24:LEU:HD11	2:L:45:ALA:HB1	1.90	0.52
2:L:126:VAL:HG12	2:L:127:ALA:N	2.25	0.52
2:L:189:ILE:HD12	2:L:256:VAL:HG13	1.92	0.52
2:L:616:ASP:OD2	2:L:823:HIS:CE1	2.59	0.52
2:L:935:VAL:HG11	2:L:997:LEU:HD21	1.92	0.52
1:A:573:VAL:O	1:A:577:LEU:HG	2.09	0.52
1:A:1444:GLN:OE1	1:A:1444:GLN:HA	2.08	0.52
1:A:1692:GLN:HE22	1:E:1388:LYS:HD3	1.75	0.52
1:B:11:TYR:O	1:B:15:VAL:HG23	2.08	0.52
1:B:1381:MET:HG2	1:B:1382:THR:N	2.22	0.52
1:B:1702:ARG:HG3	1:B:1702:ARG:NH1	2.05	0.52
1:C:498:THR:HG22	1:C:508:TYR:HD1	1.73	0.52
1:C:1099:GLU:HA	1:C:1149:LEU:HD23	1.91	0.52
1:D:1444:GLN:HA	1:D:1444:GLN:OE1	2.09	0.52
1:E:1475:GLU:HB3	1:E:1479:ARG:NH2	2.24	0.52
1:F:445:LEU:HD11	1:F:481:LEU:HD11	1.90	0.52
1:F:498:THR:HG21	1:F:858:LEU:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:619:LYS:HG2	1:F:620:LYS:N	2.25	0.52
1:F:1523:HIS:HB2	1:F:1624:SER:HA	1.91	0.52
2:G:31:LEU:HD13	2:G:75:LEU:HD21	1.91	0.52
2:G:49:LYS:HA	2:G:79:TYR:HE1	1.73	0.52
2:G:135:GLY:HA2	2:G:138:ARG:NH1	2.24	0.52
2:G:617:PHE:CE1	2:G:822:ALA:HB2	2.45	0.52
2:G:779:GLY:HA3	2:G:811:MET:CE	2.39	0.52
2:G:1031:VAL:HG22	2:G:1041:TRP:HB3	1.91	0.52
2:G:1555:VAL:O	2:G:1555:VAL:HG12	2.10	0.52
2:H:246:ALA:HB3	2:H:247:PRO:HD3	1.91	0.52
2:H:645:ILE:HD13	2:H:687:ILE:HD11	1.91	0.52
2:H:930:THR:HG22	2:H:933:GLU:H	1.74	0.52
2:H:980:LEU:HB2	2:H:996:ILE:CD1	2.40	0.52
2:H:1031:VAL:HG22	2:H:1041:TRP:HB3	1.90	0.52
2:I:138:ARG:HB3	2:I:192:THR:HG23	1.90	0.52
2:I:1091:HIS:O	2:I:1094:HIS:HB2	2.09	0.52
2:I:1402:ASN:ND2	2:I:1416:CYS:HB2	2.24	0.52
2:I:1902:TYR:OH	2:I:1966:ARG:HB2	2.09	0.52
2:J:765:TYR:CG	2:J:805:MET:HE3	2.44	0.52
2:J:1067:LEU:HD12	2:J:1067:LEU:N	2.24	0.52
2:J:1227:LYS:HG2	2:J:1228:LEU:N	2.24	0.52
2:J:2052:LYS:H	2:J:2052:LYS:CE	2.09	0.52
2:K:24:LEU:HD11	2:K:45:ALA:HB1	1.89	0.52
2:K:179:ILE:HG23	2:K:179:ILE:O	2.08	0.52
2:K:1064:THR:HG22	2:K:1065:CYS:N	2.24	0.52
2:L:73:VAL:HA	2:L:113:PHE:CE2	2.45	0.52
2:L:208:LEU:HA	2:L:211:LEU:HD12	1.92	0.52
2:L:686:PRO:HB3	2:L:1187:PHE:CE1	2.44	0.52
2:L:1247:PHE:HB3	2:L:1256:VAL:CG1	2.39	0.52
1:A:11:TYR:O	1:A:15:VAL:HG23	2.09	0.52
1:A:653:LYS:HD3	1:A:742:TYR:HE2	1.73	0.52
1:A:1142:LEU:HD12	1:A:1142:LEU:N	2.24	0.52
1:B:415:TYR:O	1:B:419:PHE:HD1	1.91	0.52
1:B:613:PRO:C	1:B:615:LEU:H	2.17	0.52
1:B:613:PRO:O	1:B:615:LEU:N	2.43	0.52
1:B:714:PHE:CE1	1:B:725:LEU:HD12	2.44	0.52
1:C:24:MET:HE2	2:I:2043:VAL:HG13	1.91	0.52
1:C:998:GLY:CA	1:C:1361:VAL:HG13	2.37	0.52
1:C:1574:LEU:O	1:C:1578:LEU:HG	2.10	0.52
1:D:767:HIS:HB2	1:D:813:LEU:HD12	1.90	0.52
1:E:2:ARG:HB2	1:E:5:VAL:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:41:THR:HG21	2:K:1691:ALA:HB2	1.90	0.52
1:E:619:LYS:HG2	1:E:620:LYS:N	2.23	0.52
1:E:636:TYR:HB2	1:E:888:ILE:HD11	1.92	0.52
1:E:1032:MET:HE3	1:E:1165:PRO:HB3	1.90	0.52
1:E:1565:PRO:O	1:E:1567:GLY:N	2.42	0.52
1:F:788:ARG:HB2	1:F:790:TYR:CD2	2.44	0.52
1:F:1443:LEU:HD13	1:F:1470:ARG:HB3	1.91	0.52
2:G:179:ILE:HG23	2:G:179:ILE:O	2.09	0.52
2:G:251:PRO:CG	2:G:316:PHE:HA	2.38	0.52
2:G:1335:PHE:HE1	2:G:1629:ILE:HD13	1.73	0.52
2:G:1770:ASN:HB2	2:G:1776:LYS:CE	2.34	0.52
2:H:101:VAL:O	2:H:105:ILE:HG12	2.09	0.52
2:H:119:VAL:HA	2:H:122:ILE:HG22	1.90	0.52
2:H:979:LEU:HD21	2:H:999:ALA:CB	2.39	0.52
2:H:1288:PHE:CE2	2:H:1292:VAL:HG21	2.45	0.52
2:I:24:LEU:HD11	2:I:45:ALA:HB1	1.90	0.52
2:I:1142:ILE:HD11	2:I:1209:PRO:HB3	1.90	0.52
2:I:1745:LEU:HB3	2:I:1799:LEU:HD22	1.90	0.52
2:J:465:LEU:HB2	2:J:479:ARG:HG2	1.91	0.52
2:J:1741:ASN:HD21	2:J:1798:GLY:HA3	1.75	0.52
2:J:1939:LEU:O	2:J:1943:LEU:HG	2.08	0.52
2:K:204:ILE:HG21	2:K:312:VAL:HG21	1.92	0.52
2:K:1192:LEU:HD22	2:K:1196:PHE:CE1	2.44	0.52
2:L:458:MET:C	2:L:459:LYS:HG3	2.34	0.52
2:L:580:LEU:HD11	2:L:1098:LEU:HB3	1.92	0.52
2:L:1008:ILE:HD12	2:L:1013:VAL:HG22	1.91	0.52
2:L:1138:ASP:HB2	2:L:1140:ASN:H	1.73	0.52
2:L:1192:LEU:HD22	2:L:1196:PHE:HE1	1.74	0.52
2:L:1315:ILE:H	2:L:1315:ILE:HD12	1.73	0.52
2:L:1721:ARG:HH21	2:L:1853:ILE:HD12	1.69	0.52
2:L:1835:GLY:HA3	2:L:1839:GLY:C	2.34	0.52
1:A:811:ASP:OD1	1:A:811:ASP:N	2.43	0.52
1:A:1230:SER:HA	1:A:1311:GLN:NE2	2.21	0.52
1:A:1446:GLU:HA	1:A:1449:ALA:HB3	1.91	0.52
1:B:349:MET:HE2	1:B:351:LEU:HD23	1.91	0.52
1:B:1443:LEU:HD13	1:B:1470:ARG:HB3	1.90	0.52
1:B:1591:ASN:C	1:B:1593:ASP:H	2.18	0.52
1:B:1672:GLY:HA3	1:B:1678:LEU:HD23	1.92	0.52
1:C:28:TRP:CE2	1:C:53:LEU:HD22	2.45	0.52
1:C:997:THR:CB	1:C:1363:MET:HE2	2.39	0.52
1:C:1327:ALA:HA	1:C:1340:MET:HE1	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:538:ARG:HG3	1:D:579:MET:HE3	1.90	0.52
1:D:1610:ARG:NH1	1:D:1610:ARG:CG	2.61	0.52
1:E:1280:CYS:HA	1:E:1566:LYS:O	2.09	0.52
1:E:1703:VAL:HG22	1:E:1712:LYS:C	2.35	0.52
1:F:918:LEU:HA	1:F:921:GLU:HG2	1.92	0.52
1:F:1230:SER:HA	1:F:1311:GLN:NE2	2.23	0.52
1:F:1592:ALA:O	1:F:1593:ASP:C	2.53	0.52
2:G:1247:PHE:HB3	2:G:1256:VAL:CG1	2.39	0.52
2:G:1335:PHE:CE1	2:G:1629:ILE:HD11	2.44	0.52
2:H:350:MET:HG3	2:H:435:ILE:CG2	2.40	0.52
2:H:663:ILE:H	2:H:663:ILE:CD1	2.23	0.52
2:H:2033:SER:HA	2:H:2036:ILE:HD12	1.91	0.52
2:I:487:ILE:CB	2:I:488:PRO:HD3	2.38	0.52
2:I:652:ILE:HG23	2:I:653:PRO:HD2	1.90	0.52
2:I:676:LEU:HD23	2:I:679:ARG:NH2	2.23	0.52
2:I:1574:PRO:HD3	2:I:1611:TYR:CE2	2.44	0.52
2:J:378:ILE:HG23	2:J:391:VAL:HG13	1.92	0.52
2:J:871:ARG:CZ	2:J:909:ASP:HB3	2.39	0.52
2:J:1192:LEU:HD22	2:J:1196:PHE:HE1	1.74	0.52
2:J:1881:TYR:OH	2:J:2009:PHE:HE1	1.93	0.52
2:J:1960:MET:HB3	2:J:1964:ASP:CB	2.38	0.52
2:K:1915:LEU:HB2	2:K:1935:ALA:HB1	1.90	0.52
2:K:2013:GLY:O	2:K:2016:PRO:HD2	2.08	0.52
2:L:283:THR:HG23	2:L:470:TYR:O	2.09	0.52
2:L:980:LEU:HB2	2:L:996:ILE:CD1	2.40	0.52
2:L:1091:HIS:O	2:L:1094:HIS:HB2	2.10	0.52
1:A:358:PHE:C	1:A:358:PHE:CD2	2.87	0.52
1:A:621:ASP:HB3	1:A:625:ASN:HB2	1.91	0.52
1:A:918:LEU:HA	1:A:921:GLU:HG2	1.92	0.52
1:A:1032:MET:HE3	1:A:1165:PRO:HB3	1.89	0.52
1:B:476:ASN:O	1:B:480:VAL:HG23	2.10	0.52
1:B:1179:ILE:O	1:B:1183:VAL:HG23	2.09	0.52
1:C:1602:PHE:N	1:C:1602:PHE:HD2	2.07	0.52
1:D:427:ARG:HD2	1:D:490:VAL:HG12	1.91	0.52
1:D:628:TYR:CZ	1:D:630:LYS:HG2	2.45	0.52
1:D:655:ALA:HB3	1:D:680:VAL:HG12	1.92	0.52
1:E:653:LYS:HD3	1:E:742:TYR:HE2	1.74	0.52
2:G:440:HIS:CD2	2:G:497:ASP:O	2.63	0.52
2:G:937:ARG:HG3	2:G:941:LEU:HD12	1.92	0.52
2:G:1764:MET:HE3	2:G:1865:LEU:HD12	1.92	0.52
2:H:636:TYR:N	2:H:636:TYR:CD1	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:60:THR:HG22	2:I:62:GLU:H	1.75	0.52
2:I:378:ILE:HG23	2:I:391:VAL:CG1	2.39	0.52
2:I:472:THR:HG23	2:I:499:VAL:HA	1.91	0.52
2:I:606:ALA:HB2	2:I:811:MET:CG	2.38	0.52
2:I:613:VAL:N	2:I:614:PRO:HD3	2.25	0.52
2:J:376:ARG:CB	2:J:394:PRO:HG2	2.38	0.52
2:J:718:PRO:HG3	2:J:727:VAL:HG21	1.90	0.52
2:J:827:GLN:H	2:J:827:GLN:CD	2.17	0.52
2:J:1617:ARG:HB2	2:J:1635:TYR:CZ	2.44	0.52
2:K:935:VAL:HG11	2:K:997:LEU:HD21	1.91	0.52
2:K:1305:LEU:HB3	2:K:1401:ILE:HD12	1.90	0.52
2:K:1468:ARG:CG	2:K:1468:ARG:NH1	2.52	0.52
2:L:1579:ASN:O	2:L:1583:VAL:HG23	2.10	0.52
1:C:36:LEU:CD2	1:C:44:ILE:HD11	2.38	0.52
1:C:918:LEU:HA	1:C:921:GLU:HG2	1.92	0.52
1:D:358:PHE:C	1:D:358:PHE:CD2	2.87	0.52
1:D:1047:TYR:CZ	1:D:1058:PRO:HB3	2.43	0.52
1:E:1179:ILE:O	1:E:1183:VAL:HG23	2.09	0.52
1:E:1580:VAL:HG22	1:E:1585:ILE:O	2.09	0.52
1:F:1005:TRP:CD1	1:F:1561:LEU:HD22	2.45	0.52
1:F:1067:LYS:HB3	1:F:1068:TYR:CD1	2.45	0.52
1:F:1106:LEU:HD23	1:F:1107:GLU:N	2.24	0.52
2:G:747:ARG:NH1	2:G:780:SER:O	2.42	0.52
2:G:855:ILE:HD13	2:G:856:THR:N	2.23	0.52
2:G:1064:THR:HG22	2:G:1065:CYS:N	2.23	0.52
2:G:1499:LYS:CG	2:G:1500:ASN:H	2.23	0.52
2:G:1621:GLU:OE2	2:G:1629:ILE:HG23	2.10	0.52
2:H:43:PHE:CB	2:I:22:ARG:HE	2.22	0.52
2:H:480:GLU:O	2:H:480:GLU:HG2	2.10	0.52
2:H:833:VAL:HG13	2:H:1077:LYS:HA	1.92	0.52
2:H:935:VAL:HG11	2:H:997:LEU:HD21	1.90	0.52
2:H:1138:ASP:HB2	2:H:1140:ASN:H	1.73	0.52
2:H:1519:THR:OG1	2:H:1521:GLU:HG2	2.10	0.52
2:H:1868:GLN:HG2	2:H:1873:ARG:HH22	1.74	0.52
2:I:930:THR:HG22	2:I:933:GLU:CG	2.38	0.52
2:I:1061:VAL:HG12	2:I:1066:ILE:HD11	1.91	0.52
2:I:1343:PHE:CE2	2:I:1388:PRO:HD2	2.45	0.52
2:I:1873:ARG:NH1	2:I:2002:ASP:HB3	2.24	0.52
2:I:2073:ASN:O	2:I:2076:LYS:HB3	2.08	0.52
2:J:747:ARG:HD3	2:J:1071:VAL:HG11	1.91	0.52
2:J:1097:PHE:CD2	2:J:1100:ARG:NH1	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1441:ASP:C	2:J:1443:GLU:N	2.64	0.52
2:J:1634:SER:HB3	2:J:1684:GLU:HB2	1.90	0.52
2:K:314:LEU:HG	2:K:318:ILE:HD11	1.91	0.52
2:K:378:ILE:HG23	2:K:391:VAL:CG1	2.40	0.52
2:K:460:ILE:HD13	2:K:487:ILE:HD11	1.92	0.52
2:K:617:PHE:CE1	2:K:822:ALA:HB2	2.45	0.52
2:K:1141:LYS:HE2	2:K:1143:SER:HB2	1.91	0.52
2:K:1259:LEU:HB2	2:K:1288:PHE:CD1	2.44	0.52
2:K:1762:MET:HG2	2:K:1779:LYS:HZ1	1.75	0.52
2:L:1142:ILE:HD11	2:L:1209:PRO:HB3	1.91	0.52
2:L:1262:ARG:NH2	2:L:1277:VAL:HG11	2.24	0.52
2:L:1804:GLN:HG2	2:L:1865:LEU:CD2	2.40	0.52
2:L:1899:ALA:O	2:L:1903:VAL:HG23	2.09	0.52
2:L:2013:GLY:O	2:L:2016:PRO:HD2	2.10	0.52
1:A:535:TYR:CE2	1:A:610:GLU:HB3	2.44	0.52
1:B:1081:ILE:HG13	1:B:1159:LEU:O	2.09	0.52
1:C:1164:ILE:CD1	1:C:1355:GLN:HG3	2.40	0.52
1:E:42:GLU:OE2	2:K:1631:ARG:NH2	2.41	0.52
1:E:358:PHE:C	1:E:358:PHE:CD2	2.87	0.52
1:E:414:TYR:C	1:E:414:TYR:CD2	2.88	0.52
1:E:1230:SER:HA	1:E:1311:GLN:NE2	2.23	0.52
1:E:1602:PHE:N	1:E:1602:PHE:HD2	2.08	0.52
1:F:339:GLN:O	1:F:343:ILE:HG13	2.09	0.52
2:G:1475:LEU:HA	2:G:1526:ALA:HB2	1.92	0.52
2:G:1574:PRO:HD3	2:G:1611:TYR:CE2	2.45	0.52
2:H:617:PHE:CE1	2:H:822:ALA:HB2	2.44	0.52
2:H:1316:VAL:HG13	2:H:1348:PHE:CE2	2.45	0.52
2:I:347:PRO:HA	2:I:432:PHE:CD1	2.44	0.52
2:J:279:PHE:HB2	2:J:467:ILE:HD12	1.92	0.52
2:J:832:ILE:HA	2:J:868:LEU:HD21	1.90	0.52
2:J:855:ILE:HB	2:J:869:ALA:HB2	1.91	0.52
2:J:980:LEU:HD21	2:J:986:LEU:HD21	1.92	0.52
2:J:2052:LYS:HB3	2:J:2074:TRP:CD2	2.45	0.52
2:K:227:ILE:HD13	2:K:252:LEU:HD13	1.92	0.52
2:K:937:ARG:HG3	2:K:941:LEU:HD12	1.91	0.52
2:L:135:GLY:HA2	2:L:138:ARG:NH1	2.25	0.52
2:L:179:ILE:HG23	2:L:179:ILE:O	2.09	0.52
2:L:350:MET:HG3	2:L:435:ILE:HB	1.92	0.52
2:L:600:VAL:HG13	2:L:601:PRO:N	2.24	0.52
2:L:617:PHE:CE1	2:L:822:ALA:HB2	2.44	0.52
2:L:1015:HIS:NE2	2:L:1019:LEU:HD11	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1802:ALA:HB1	2:L:1804:GLN:NE2	2.17	0.52
2:L:1902:TYR:OH	2:L:1966:ARG:HB2	2.10	0.52
1:A:843:VAL:HG22	1:A:843:VAL:O	2.10	0.52
1:A:965:TYR:CE1	1:A:1199:LEU:HD22	2.45	0.52
1:A:998:GLY:CA	1:A:1361:VAL:HG13	2.36	0.52
1:B:1327:ALA:HA	1:B:1340:MET:HE1	1.90	0.52
1:B:1443:LEU:HD11	1:B:1470:ARG:HB3	1.90	0.52
1:C:342:ILE:HD11	1:E:342:ILE:HD11	1.92	0.52
1:C:714:PHE:CE1	1:C:725:LEU:HD12	2.45	0.52
1:C:997:THR:HB	1:C:1363:MET:HE2	1.92	0.52
1:C:1212:TYR:CD2	1:C:1371:MET:HG2	2.44	0.52
1:C:1273:ILE:HG13	1:C:1273:ILE:O	2.10	0.52
1:D:1143:ARG:HH21	1:E:356:LYS:NZ	2.08	0.52
1:D:1213:VAL:CG1	1:D:1217:GLU:HB2	2.40	0.52
1:E:1199:LEU:C	1:E:1201:SER:H	2.17	0.52
1:F:651:GLN:HA	1:F:677:GLY:HA3	1.92	0.52
1:F:962:ASN:HD22	2:L:1006:GLN:NE2	2.08	0.52
2:G:99:LEU:O	2:G:103:LYS:HG3	2.10	0.52
2:G:378:ILE:HG23	2:G:391:VAL:CG1	2.40	0.52
2:G:820:LYS:HB3	2:G:1080:ASP:O	2.09	0.52
2:G:1288:PHE:CE2	2:G:1292:VAL:HG21	2.44	0.52
2:G:1411:LYS:O	2:G:1434:LEU:HD12	2.09	0.52
2:H:134:ILE:HG12	2:H:545:ILE:HD12	1.92	0.52
2:H:1402:ASN:ND2	2:H:1416:CYS:HB2	2.24	0.52
2:H:1466:VAL:O	2:H:1470:LYS:HG2	2.10	0.52
2:H:1499:LYS:CG	2:H:1500:ASN:H	2.23	0.52
2:H:1871:VAL:HG23	2:H:2003:VAL:HG13	1.92	0.52
2:I:1706:MET:O	2:I:1709:TYR:HB3	2.09	0.52
2:J:179:ILE:HG23	2:J:179:ILE:O	2.09	0.52
2:J:289:ILE:HG22	2:J:490:LEU:HD22	1.92	0.52
2:J:636:TYR:N	2:J:636:TYR:CD1	2.78	0.52
2:J:1247:PHE:HB3	2:J:1256:VAL:CG1	2.39	0.52
2:J:1340:LYS:HE3	2:L:373:PRO:HG2	1.92	0.52
2:J:1835:GLY:HA3	2:J:1839:GLY:C	2.35	0.52
2:K:99:LEU:O	2:K:103:LYS:HG3	2.10	0.52
2:K:120:HIS:CD2	2:K:137:VAL:HG11	2.45	0.52
2:K:189:ILE:HD13	2:K:259:ALA:HB3	1.92	0.52
2:K:930:THR:HG22	2:K:933:GLU:HG3	1.92	0.52
2:L:384:ASN:HB3	2:L:527:LEU:HD11	1.91	0.52
2:L:910:PHE:HD2	2:L:912:LYS:H	1.57	0.52
2:L:1871:VAL:CG1	2:L:1872:GLU:N	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:648:LEU:HD12	1:A:649:THR:N	2.25	0.52
1:A:995:VAL:CG1	1:A:1375:ILE:HG23	2.41	0.52
1:A:1394:PRO:HB3	1:A:1627:PHE:CE2	2.45	0.52
1:B:15:VAL:HG11	2:H:2022:LEU:HD21	1.91	0.52
1:B:577:LEU:HD23	1:B:584:ILE:HG21	1.92	0.52
1:C:458:GLU:CD	1:C:458:GLU:H	2.18	0.52
1:C:1268:SER:HB3	1:F:1389:ILE:CG1	2.10	0.52
1:E:349:MET:HE2	1:E:351:LEU:CD2	2.40	0.52
1:E:714:PHE:CE1	1:E:725:LEU:HD12	2.44	0.52
1:F:843:VAL:HG22	1:F:843:VAL:O	2.09	0.52
2:G:1888:PRO:HB3	2:G:1895:PHE:CD1	2.42	0.52
2:H:179:ILE:HG23	2:H:179:ILE:O	2.10	0.52
2:H:928:ASP:HA	2:H:1007:LEU:HD23	1.92	0.52
2:H:1574:PRO:HD3	2:H:1611:TYR:CE2	2.45	0.52
2:H:1977:ARG:HD2	2:H:1978:LYS:HG3	1.92	0.52
2:I:215:TRP:CE3	2:I:215:TRP:N	2.78	0.52
2:I:600:VAL:HG13	2:I:601:PRO:N	2.25	0.52
2:I:910:PHE:HD2	2:I:912:LYS:H	1.58	0.52
2:I:1318:ALA:HA	2:I:1391:VAL:CG2	2.38	0.52
2:I:1884:CYS:HB3	2:I:1936:LEU:CD1	2.39	0.52
2:J:820:LYS:HB3	2:J:1080:ASP:O	2.10	0.52
2:J:1223:SER:CB	2:J:1226:ALA:HB3	2.39	0.52
2:J:1405:ILE:HA	2:J:1445:THR:OG1	2.10	0.52
2:J:1537:GLY:O	2:J:1539:PRO:HD3	2.09	0.52
2:K:582:LYS:HA	2:K:587:GLN:O	2.10	0.52
2:K:621:THR:HG21	2:K:628:ILE:HD12	1.91	0.52
2:K:2033:SER:HA	2:K:2036:ILE:HD12	1.91	0.52
2:L:827:GLN:H	2:L:827:GLN:CD	2.15	0.52
2:L:1289:TYR:CG	2:L:1370:LEU:HD23	2.44	0.52
2:L:1764:MET:HE3	2:L:1865:LEU:CD1	2.39	0.52
1:A:621:ASP:HB3	1:A:625:ASN:H	1.75	0.51
1:A:1213:VAL:CG1	1:A:1217:GLU:HB2	2.40	0.51
1:A:1574:LEU:O	1:A:1578:LEU:HG	2.09	0.51
1:B:349:MET:HE2	1:B:351:LEU:CD2	2.41	0.51
1:B:1157:ASP:O	1:B:1159:LEU:HD12	2.10	0.51
1:C:653:LYS:HD3	1:C:742:TYR:HE2	1.75	0.51
1:C:1574:LEU:CD1	1:C:1622:VAL:HG11	2.39	0.51
1:D:613:PRO:HG2	1:D:633:THR:HG21	1.93	0.51
1:D:1278:GLY:CA	1:D:1630:LYS:HE2	2.38	0.51
1:F:1327:ALA:HA	1:F:1340:MET:HE1	1.92	0.51
1:F:1553:VAL:HG22	1:F:1604:TYR:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:580:LEU:HD11	2:G:1098:LEU:HB3	1.91	0.51
2:G:636:TYR:N	2:G:636:TYR:CD1	2.78	0.51
2:H:190:TYR:HE1	2:H:201:ILE:HG21	1.75	0.51
2:H:1375:HIS:ND1	2:H:1610:MET:HG2	2.24	0.51
2:H:1543:TYR:HD2	2:H:1544:LEU:HD23	1.74	0.51
2:I:73:VAL:HA	2:I:113:PHE:CE2	2.44	0.51
2:I:607:GLY:HA2	2:I:612:THR:HG21	1.91	0.51
2:I:645:ILE:HD13	2:I:687:ILE:HD11	1.92	0.51
2:I:855:ILE:HD13	2:I:856:THR:N	2.23	0.51
2:I:1261:PHE:HE2	2:I:1285:ILE:HD11	1.75	0.51
2:I:1897:GLU:HG2	2:I:1901:GLN:NE2	2.23	0.51
2:J:27:THR:HG22	2:J:32:GLU:CD	2.35	0.51
2:J:581:VAL:HG11	2:J:1113:ILE:HD11	1.92	0.51
2:J:895:LEU:HD13	2:J:1034:LEU:HB3	1.92	0.51
2:K:608:MET:HE1	2:K:817:MET:HG2	1.91	0.51
2:K:855:ILE:HD13	2:K:856:THR:N	2.22	0.51
2:K:1975:GLU:O	2:K:1979:GLN:HG3	2.10	0.51
2:L:331:LEU:HD22	2:L:396:ILE:HG13	1.92	0.51
2:L:1475:LEU:HA	2:L:1526:ALA:HB2	1.91	0.51
1:A:457:THR:HG22	1:A:464:GLN:HA	1.91	0.51
1:A:893:GLN:OE1	2:L:1751:GLY:HA2	2.10	0.51
1:A:1014:MET:O	1:A:1590:ARG:NH2	2.30	0.51
1:A:1473:HIS:C	1:A:1473:HIS:ND1	2.68	0.51
1:B:653:LYS:HD3	1:B:742:TYR:HE2	1.75	0.51
1:B:718:SER:HA	1:E:378:GLU:OE1	2.10	0.51
1:B:1041:PRO:HA	1:B:1046:PRO:HA	1.92	0.51
1:C:577:LEU:HD22	1:C:585:MET:HE3	1.91	0.51
1:C:1592:ALA:O	1:C:1593:ASP:C	2.53	0.51
1:D:24:MET:HE2	2:J:2043:VAL:HG13	1.90	0.51
1:D:1273:ILE:HG13	1:D:1273:ILE:O	2.10	0.51
1:E:15:VAL:HG11	2:K:2022:LEU:CD2	2.41	0.51
1:E:1378:ILE:HD11	1:E:1642:LEU:HB2	1.93	0.51
2:G:227:ILE:HD13	2:G:252:LEU:HD13	1.92	0.51
2:G:501:TRP:HZ2	2:G:528:THR:HG21	1.75	0.51
2:G:930:THR:HG23	2:G:933:GLU:H	1.76	0.51
2:G:1594:ARG:NH1	2:G:1594:ARG:CG	2.62	0.51
2:G:1723:ASP:OD1	2:G:1735:ILE:HG13	2.10	0.51
2:G:1751:GLY:O	2:G:1755:LYS:HG2	2.11	0.51
2:H:141:TYR:OH	2:H:267:THR:HG23	2.09	0.51
2:H:1475:LEU:HA	2:H:1526:ALA:HB2	1.91	0.51
2:H:1915:LEU:HD21	2:H:1939:LEU:HD22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:833:VAL:HG13	2:I:1077:LYS:HA	1.92	0.51
2:I:1259:LEU:HB2	2:I:1288:PHE:CE1	2.45	0.51
2:I:1305:LEU:HD23	2:I:1366:ILE:CG1	2.41	0.51
2:I:1375:HIS:ND1	2:I:1610:MET:HG2	2.25	0.51
2:I:1694:PHE:HD2	2:I:1843:ALA:CB	2.22	0.51
2:I:1764:MET:O	2:I:1780:ILE:HG13	2.10	0.51
2:J:979:LEU:HD21	2:J:999:ALA:CB	2.41	0.51
2:J:1103:TYR:O	2:J:1106:LYS:HB2	2.11	0.51
2:J:1309:PHE:CE2	2:J:1360:PRO:HA	2.45	0.51
2:J:1315:ILE:H	2:J:1315:ILE:HD12	1.76	0.51
2:J:1440:THR:O	2:J:1440:THR:HG22	2.10	0.51
2:K:1334:ALA:O	2:K:1342:PHE:HA	2.10	0.51
2:L:949:ARG:HH22	2:L:1052:ASP:CG	2.18	0.51
2:L:1510:ILE:HA	2:L:1528:VAL:O	2.10	0.51
2:L:1621:GLU:OE2	2:L:1629:ILE:HG23	2.10	0.51
1:A:12:THR:O	1:A:16:GLU:HG2	2.11	0.51
1:A:378:GLU:OE1	1:F:718:SER:HA	2.10	0.51
1:A:498:THR:HG21	1:A:858:LEU:O	2.09	0.51
1:A:535:TYR:CE1	1:F:580:ASN:CB	2.93	0.51
1:A:767:HIS:CB	1:A:813:LEU:HD12	2.41	0.51
1:A:1161:ALA:O	1:A:1163:GLN:HG3	2.10	0.51
1:A:1264:MET:HB3	1:E:1390:GLY:O	2.10	0.51
1:C:414:TYR:C	1:C:414:TYR:CD2	2.88	0.51
1:C:1005:TRP:CD1	1:C:1561:LEU:HD22	2.46	0.51
1:C:1264:MET:HB3	1:F:1390:GLY:O	2.10	0.51
1:D:11:TYR:O	1:D:15:VAL:HG23	2.10	0.51
1:D:476:ASN:O	1:D:480:VAL:HG23	2.10	0.51
1:D:1327:ALA:HA	1:D:1340:MET:HE1	1.92	0.51
1:E:1067:LYS:HB3	1:E:1068:TYR:CD1	2.45	0.51
2:G:979:LEU:HD21	2:G:999:ALA:CB	2.39	0.51
2:G:1178:THR:HG22	2:G:1180:VAL:H	1.74	0.51
2:G:1229:VAL:HG12	2:G:1230:LYS:N	2.25	0.51
2:G:1259:LEU:HB2	2:G:1288:PHE:CE1	2.46	0.51
2:G:1374:VAL:CG2	2:G:1436:ARG:HE	2.24	0.51
2:G:1516:GLU:HA	2:G:1521:GLU:O	2.09	0.51
2:G:1887:ASN:ND2	2:G:1890:ARG:HG3	2.25	0.51
2:G:1915:LEU:HB2	2:G:1935:ALA:HB1	1.93	0.51
2:G:2050:ILE:O	2:G:2050:ILE:HG12	2.09	0.51
2:H:60:THR:HG22	2:H:62:GLU:H	1.75	0.51
2:H:521:VAL:O	2:H:526:VAL:HG21	2.10	0.51
2:H:573:VAL:HG22	2:H:804:PRO:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1156:ASP:CB	2:H:1159:SER:H	2.19	0.51
2:I:421:PHE:C	2:I:423:GLN:H	2.17	0.51
2:I:1631:ARG:HA	2:I:1686:GLU:HB2	1.92	0.51
2:I:1634:SER:HB3	2:I:1684:GLU:HB2	1.92	0.51
2:J:208:LEU:HD12	2:J:227:ILE:HD11	1.91	0.51
2:J:579:ARG:HB2	2:J:591:ASP:HB3	1.92	0.51
2:J:962:PHE:O	2:J:965:ARG:HB3	2.11	0.51
2:K:108:GLU:HA	2:K:111:ARG:HD2	1.93	0.51
2:K:1330:ASN:HD22	2:K:1618:SER:HB2	1.76	0.51
2:K:1356:ALA:CB	2:K:1397:THR:HG22	2.40	0.51
2:K:2052:LYS:HB3	2:K:2074:TRP:CZ2	2.45	0.51
2:L:279:PHE:HB2	2:L:467:ILE:HD12	1.92	0.51
2:L:447:ALA:O	2:L:451:ILE:HG13	2.10	0.51
2:L:521:VAL:O	2:L:526:VAL:HG21	2.09	0.51
2:L:937:ARG:HG3	2:L:941:LEU:HD12	1.92	0.51
2:L:1619:LEU:O	2:L:1623:TRP:HB2	2.09	0.51
1:A:342:ILE:HG22	1:D:335:LEU:HD13	1.93	0.51
1:A:816:GLU:OE2	1:F:827:ARG:NE	2.44	0.51
1:B:1160:VAL:HG23	1:B:1327:ALA:HB2	1.91	0.51
1:B:1444:GLN:O	1:B:1447:VAL:HB	2.10	0.51
1:C:447:PHE:CE1	1:C:451:HIS:NE2	2.78	0.51
1:C:1161:ALA:O	1:C:1163:GLN:HG3	2.09	0.51
1:E:1401:LEU:O	1:E:1401:LEU:HD22	2.10	0.51
1:F:1444:GLN:OE1	1:F:1444:GLN:HA	2.10	0.51
2:G:1343:PHE:CE2	2:G:1388:PRO:HD2	2.46	0.51
2:G:1492:LEU:HD22	2:G:1511:GLY:HA3	1.93	0.51
2:H:775:VAL:O	2:H:777:VAL:HG23	2.11	0.51
2:H:1178:THR:HG22	2:H:1180:VAL:H	1.74	0.51
2:H:1192:LEU:HD22	2:H:1196:PHE:CE1	2.44	0.51
2:H:1259:LEU:HB2	2:H:1288:PHE:CD1	2.46	0.51
2:H:1510:ILE:HA	2:H:1528:VAL:O	2.10	0.51
2:H:1516:GLU:HA	2:H:1521:GLU:O	2.11	0.51
2:H:1767:GLU:HB2	2:H:2016:PRO:HG3	1.91	0.51
2:I:108:GLU:HA	2:I:111:ARG:HD2	1.93	0.51
2:I:290:VAL:HA	2:I:490:LEU:CD1	2.37	0.51
2:I:1346:MET:HG2	2:I:1617:ARG:NH2	2.25	0.51
2:J:616:ASP:OD2	2:J:823:HIS:CE1	2.62	0.51
2:J:1818:PHE:HE2	2:J:1822:ARG:HH12	1.58	0.51
2:K:24:LEU:CD1	2:K:45:ALA:HB1	2.40	0.51
2:K:170:TYR:CE1	2:K:510:ALA:HB2	2.46	0.51
2:K:911:GLN:NE2	2:K:1065:CYS:H	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1154:LEU:HD13	2:K:1198:PRO:HB3	1.93	0.51
2:K:1510:ILE:HA	2:K:1528:VAL:O	2.10	0.51
2:L:820:LYS:HB3	2:L:1080:ASP:O	2.11	0.51
1:A:75:GLN:HE21	2:I:335:THR:HG23	1.76	0.51
1:B:628:TYR:CE1	1:B:630:LYS:HG2	2.45	0.51
1:B:788:ARG:HB2	1:B:790:TYR:CD2	2.45	0.51
1:B:997:THR:HB	1:B:1363:MET:HE2	1.91	0.51
1:C:17:LEU:HD22	2:I:2041:PRO:HB3	1.93	0.51
1:C:655:ALA:HB3	1:C:680:VAL:HG12	1.92	0.51
1:C:1547:ARG:HG2	1:C:1604:TYR:CD1	2.42	0.51
1:D:15:VAL:HG11	2:J:2022:LEU:CD2	2.40	0.51
1:D:1037:ASN:CG	1:D:1674:ILE:HG23	2.35	0.51
1:E:1108:PRO:HA	1:E:1140:VAL:O	2.09	0.51
1:F:22:PHE:O	2:L:2010:LEU:HD12	2.10	0.51
1:F:1470:ARG:O	1:F:1474:ILE:HG13	2.09	0.51
2:G:472:THR:H	2:G:493:MET:HE3	1.74	0.51
2:G:792:LEU:O	2:G:792:LEU:HD12	2.09	0.51
2:G:1276:GLU:HB3	2:G:1278:MET:HE2	1.93	0.51
2:G:1543:TYR:HD2	2:G:1544:LEU:HD23	1.74	0.51
2:G:1694:PHE:HD2	2:G:1843:ALA:CB	2.23	0.51
2:H:608:MET:H	2:H:612:THR:CB	2.24	0.51
2:H:617:PHE:HD1	2:H:822:ALA:HA	1.76	0.51
2:H:1634:SER:HB3	2:H:1684:GLU:HB2	1.92	0.51
2:I:486:ILE:O	2:I:490:LEU:HG	2.10	0.51
2:I:937:ARG:HG3	2:I:941:LEU:HD12	1.93	0.51
2:I:1315:ILE:HA	2:I:1393:ASP:O	2.10	0.51
2:I:1863:ARG:HB2	2:I:2017:PHE:HE1	1.74	0.51
2:K:119:VAL:HA	2:K:122:ILE:HG22	1.92	0.51
2:K:182:TYR:CD1	2:K:183:PHE:N	2.79	0.51
2:K:350:MET:HG3	2:K:435:ILE:HB	1.92	0.51
2:K:501:TRP:HZ2	2:K:528:THR:HG21	1.76	0.51
2:K:1561:ILE:HB	2:K:1655:HIS:HB3	1.91	0.51
2:L:486:ILE:O	2:L:490:LEU:HG	2.10	0.51
2:L:501:TRP:CZ2	2:L:528:THR:HG21	2.45	0.51
2:L:699:ILE:HD12	2:L:699:ILE:H	1.75	0.51
2:L:1868:GLN:HG2	2:L:1873:ARG:NH2	2.26	0.51
1:A:967:PHE:CE2	1:A:1374:PRO:HG3	2.46	0.51
1:A:1047:TYR:CZ	1:A:1058:PRO:HB3	2.46	0.51
1:B:918:LEU:HA	1:B:921:GLU:HG2	1.93	0.51
1:C:1067:LYS:HB3	1:C:1068:TYR:CD1	2.46	0.51
1:D:1079:ARG:CG	1:D:1079:ARG:NH1	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1553:VAL:HG22	1:E:1604:TYR:O	2.10	0.51
1:F:833:TRP:CH2	1:F:839:ILE:HD11	2.45	0.51
1:F:999:LEU:HD11	1:F:1575:ASN:HB3	1.91	0.51
1:F:1032:MET:HE3	1:F:1165:PRO:HB3	1.91	0.51
2:G:170:TYR:CE1	2:G:510:ALA:HB2	2.46	0.51
2:G:208:LEU:HA	2:G:211:LEU:HD12	1.93	0.51
2:H:350:MET:HG3	2:H:435:ILE:HB	1.92	0.51
2:H:1617:ARG:HB2	2:H:1635:TYR:CZ	2.45	0.51
2:H:1887:ASN:ND2	2:H:1890:ARG:HG3	2.25	0.51
2:I:871:ARG:CZ	2:I:909:ASP:HB3	2.41	0.51
2:J:350:MET:HG3	2:J:435:ILE:HB	1.92	0.51
2:J:378:ILE:HG23	2:J:391:VAL:CG1	2.41	0.51
2:J:752:HIS:CE1	2:J:847:TYR:CE2	2.92	0.51
2:J:1276:GLU:HB3	2:J:1278:MET:HE2	1.92	0.51
2:J:1874:ASP:OD1	2:J:1878:ARG:HB3	2.10	0.51
2:K:1873:ARG:NH1	2:K:2002:ASP:HB3	2.25	0.51
2:L:268:LEU:HD12	2:L:275:LEU:CD1	2.41	0.51
2:L:378:ILE:HG23	2:L:391:VAL:HG13	1.92	0.51
2:L:1515:LEU:HB3	2:L:1525:VAL:CG2	2.40	0.51
1:A:628:TYR:CD1	1:A:628:TYR:C	2.89	0.51
1:A:1512:LEU:HD21	1:A:1641:TYR:CE2	2.46	0.51
1:A:1602:PHE:N	1:A:1602:PHE:HD2	2.09	0.51
1:A:1610:ARG:NH1	1:A:1610:ARG:CG	2.58	0.51
1:A:1638:HIS:ND1	1:A:1639:PRO:HD2	2.26	0.51
1:B:430:VAL:CG1	1:B:490:VAL:HG11	2.40	0.51
1:C:18:LEU:HD21	2:I:1844:LEU:HD11	1.92	0.51
1:C:619:LYS:HG2	1:C:620:LYS:N	2.25	0.51
1:C:1041:PRO:HA	1:C:1046:PRO:HA	1.93	0.51
1:C:1470:ARG:O	1:C:1474:ILE:HG13	2.11	0.51
1:C:1692:GLN:HG3	1:C:1696:PHE:CE2	2.45	0.51
1:D:553:ARG:HH21	1:D:567:ASN:HD21	1.59	0.51
1:D:1705:GLN:NE2	1:D:1709:GLY:HA2	2.25	0.51
1:E:1004:PRO:HD3	1:E:1572:TRP:CH2	2.46	0.51
1:E:1606:VAL:O	1:E:1608:PRO:HD3	2.10	0.51
1:F:575:ARG:HG2	1:F:579:MET:SD	2.51	0.51
2:G:743:TRP:CE2	2:G:761:ILE:HD11	2.45	0.51
2:G:1091:HIS:O	2:G:1094:HIS:HB2	2.11	0.51
2:G:1141:LYS:HE2	2:G:1143:SER:HB2	1.92	0.51
2:G:1566:LYS:O	2:G:1568:PRO:HD3	2.11	0.51
2:G:1678:VAL:O	2:G:1679:LEU:HD23	2.11	0.51
2:H:49:LYS:HA	2:H:79:TYR:HE1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:421:PHE:C	2:H:423:GLN:H	2.19	0.51
2:H:1061:VAL:HG11	2:H:1066:ILE:HD11	1.91	0.51
2:I:186:LEU:HG	2:I:256:VAL:HG22	1.92	0.51
2:I:455:VAL:O	2:I:455:VAL:HG12	2.10	0.51
2:I:1807:GLN:HE22	2:I:1867:MET:HE2	1.75	0.51
2:I:2013:GLY:O	2:I:2016:PRO:HD2	2.11	0.51
2:J:145:ALA:CB	2:J:195:SER:HB3	2.40	0.51
2:J:190:TYR:HE1	2:J:201:ILE:HG21	1.75	0.51
2:J:1200:ARG:HD3	2:J:1200:ARG:N	2.25	0.51
2:J:1492:LEU:HD22	2:J:1511:GLY:HA3	1.91	0.51
2:J:1896:THR:CG2	2:J:1897:GLU:N	2.73	0.51
2:K:174:GLY:H	2:K:517:GLY:CA	2.24	0.51
2:K:458:MET:C	2:K:459:LYS:HG3	2.34	0.51
2:K:1137:ARG:HB3	2:K:1142:ILE:HG23	1.93	0.51
2:K:1884:CYS:HB3	2:K:1936:LEU:CD1	2.41	0.51
2:L:1492:LEU:HD22	2:L:1511:GLY:HA3	1.92	0.51
2:L:1622:THR:O	2:L:1626:GLU:HA	2.11	0.51
1:A:1672:GLY:HA3	1:A:1678:LEU:HD23	1.92	0.51
1:B:43:ARG:NH1	2:H:1687:GLN:HE21	2.09	0.51
1:B:1303:LEU:HD23	1:B:1361:VAL:HB	1.92	0.51
1:C:1425:LEU:CD2	1:C:1429:ARG:HH21	2.19	0.51
1:D:81:TYR:CD1	2:J:1821:MET:HE3	2.44	0.51
1:D:458:GLU:CD	1:D:458:GLU:H	2.19	0.51
1:E:339:GLN:O	1:E:343:ILE:HG13	2.11	0.51
1:E:415:TYR:CD2	1:E:1614:THR:HA	2.45	0.51
1:E:1704:THR:CG2	1:E:1714:PRO:HG3	2.41	0.51
1:F:432:GLN:O	1:F:436:ILE:HG13	2.11	0.51
1:F:538:ARG:CA	1:F:585:MET:HE1	2.37	0.51
2:G:27:THR:HG22	2:G:32:GLU:CD	2.36	0.51
2:G:699:ILE:HD12	2:G:699:ILE:H	1.75	0.51
2:G:962:PHE:O	2:G:965:ARG:HB3	2.11	0.51
2:G:1767:GLU:HB2	2:G:2016:PRO:CG	2.37	0.51
2:G:2005:PHE:HA	2:G:2010:LEU:CD1	2.29	0.51
2:H:108:GLU:HA	2:H:111:ARG:HD2	1.92	0.51
2:H:487:ILE:CB	2:H:488:PRO:HD3	2.38	0.51
2:H:1706:MET:O	2:H:1709:TYR:HB3	2.11	0.51
2:I:914:TRP:HE1	2:I:916:GLY:HA3	1.72	0.51
2:I:1137:ARG:HB3	2:I:1142:ILE:HG23	1.93	0.51
2:I:2052:LYS:H	2:I:2052:LYS:CE	2.10	0.51
2:J:327:PRO:CD	2:K:1338:ARG:NH2	2.68	0.51
2:J:1475:LEU:HD23	2:J:1476:ASP:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1764:MET:HG3	2:J:1781:PHE:HE1	1.76	0.51
2:K:752:HIS:CE1	2:K:847:TYR:CE2	2.92	0.51
2:K:1519:THR:OG1	2:K:1521:GLU:HG2	2.10	0.51
2:L:27:THR:HG22	2:L:32:GLU:CD	2.36	0.51
2:L:487:ILE:HB	2:L:488:PRO:CD	2.40	0.51
2:L:1154:LEU:HD13	2:L:1198:PRO:HB3	1.92	0.51
2:L:1259:LEU:HB2	2:L:1288:PHE:CD1	2.44	0.51
1:B:1097:LEU:CD1	1:D:1149:LEU:HD12	2.41	0.51
1:B:1524:GLY:HA2	1:B:1531:ASP:OD1	2.11	0.51
1:B:1534:GLU:HG2	1:B:1625:PHE:HE1	1.75	0.51
1:B:1553:VAL:HG22	1:B:1604:TYR:O	2.11	0.51
1:C:21:GLN:HE22	2:I:1841:TYR:HE1	1.58	0.51
1:C:404:ASN:HD21	1:C:1607:TYR:H	1.56	0.51
1:C:1270:THR:HA	1:F:1386:THR:O	2.09	0.51
1:D:421:ARG:HH22	1:D:1613:LYS:CB	2.24	0.51
1:D:524:LYS:O	1:D:528:GLU:HG3	2.10	0.51
1:D:574:ILE:HG23	1:D:584:ILE:HD12	1.92	0.51
1:D:1209:PHE:CZ	1:D:1301:VAL:HG21	2.46	0.51
1:F:56:MET:HE2	2:L:1926:GLN:OE1	2.11	0.51
1:F:998:GLY:CA	1:F:1361:VAL:HG13	2.39	0.51
1:F:1446:GLU:HA	1:F:1449:ALA:HB3	1.93	0.51
2:G:215:TRP:CE3	2:G:215:TRP:N	2.79	0.51
2:G:2062:THR:HG22	2:G:2063:GLY:N	2.26	0.51
2:H:268:LEU:HD12	2:H:275:LEU:CD1	2.40	0.51
2:H:827:GLN:H	2:H:827:GLN:CD	2.19	0.51
2:H:1694:PHE:HD2	2:H:1843:ALA:CB	2.24	0.51
2:I:581:VAL:HG11	2:I:1113:ILE:HD11	1.93	0.51
2:I:608:MET:HE1	2:I:817:MET:HG2	1.92	0.51
2:I:1353:GLY:CA	2:I:1397:THR:HG21	2.41	0.51
2:J:421:PHE:C	2:J:423:GLN:H	2.19	0.51
2:J:1709:TYR:CE2	2:J:1716:LYS:HG2	2.46	0.51
2:J:1904:VAL:HG22	2:J:1939:LEU:HD22	1.92	0.51
2:K:501:TRP:CZ2	2:K:528:THR:HG21	2.46	0.51
2:K:871:ARG:CZ	2:K:909:ASP:HB3	2.41	0.51
2:K:980:LEU:HB2	2:K:996:ILE:CD1	2.41	0.51
2:K:1217:ILE:HD12	2:K:1234:ILE:HD12	1.93	0.51
2:K:1348:PHE:O	2:K:1351:VAL:HG12	2.11	0.51
2:K:1475:LEU:HD23	2:K:1476:ASP:N	2.26	0.51
2:K:1694:PHE:HD2	2:K:1843:ALA:CB	2.24	0.51
2:L:170:TYR:CE2	2:L:507:PHE:HB3	2.45	0.51
2:L:581:VAL:HG11	2:L:1113:ILE:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:649:GLU:HG3	2:L:650:LYS:HG3	1.92	0.51
2:L:855:ILE:HD13	2:L:856:THR:N	2.22	0.51
2:L:1343:PHE:CE2	2:L:1388:PRO:HD2	2.46	0.51
2:L:1694:PHE:HD2	2:L:1843:ALA:CB	2.24	0.51
2:L:1709:TYR:C	2:L:1709:TYR:CD2	2.89	0.51
1:A:754:ARG:HH21	1:A:762:LYS:HD3	1.76	0.51
1:B:458:GLU:H	1:B:458:GLU:CD	2.19	0.51
1:B:621:ASP:HB3	1:B:625:ASN:HB2	1.93	0.51
1:C:1386:THR:O	1:F:1270:THR:HA	2.11	0.51
1:C:1473:HIS:C	1:C:1473:HIS:ND1	2.69	0.51
1:D:415:TYR:CE2	1:D:1614:THR:HB	2.46	0.51
1:D:628:TYR:HE1	1:D:630:LYS:HA	1.76	0.51
1:D:995:VAL:HG13	1:D:1375:ILE:HG23	1.93	0.51
1:E:398:VAL:HG22	1:E:710:VAL:HG22	1.93	0.51
1:E:415:TYR:CE2	1:E:1614:THR:HB	2.46	0.51
1:E:788:ARG:HB2	1:E:790:TYR:CD2	2.45	0.51
2:G:1189:THR:O	2:G:1191:PRO:HD3	2.11	0.51
2:G:1200:ARG:HD3	2:G:1200:ARG:N	2.24	0.51
2:G:1884:CYS:HB3	2:G:1936:LEU:CD1	2.40	0.51
2:H:24:LEU:HD12	2:H:37:VAL:CG2	2.37	0.51
2:H:43:PHE:CD1	2:I:22:ARG:CZ	2.94	0.51
2:H:129:ILE:HG21	2:H:132:LYS:HG3	1.93	0.51
2:H:962:PHE:O	2:H:965:ARG:HB3	2.11	0.51
2:I:420:PRO:HB2	2:I:423:GLN:HB2	1.93	0.51
2:I:649:GLU:HG3	2:I:650:LYS:HG3	1.93	0.51
2:I:1701:GLU:O	2:I:1704:MET:HE2	2.11	0.51
2:I:1762:MET:HG2	2:I:1779:LYS:HZ1	1.76	0.51
2:J:170:TYR:CE1	2:J:510:ALA:HB2	2.46	0.51
2:J:452:LEU:HD21	2:J:488:PRO:HA	1.92	0.51
2:K:215:TRP:CE3	2:K:215:TRP:N	2.79	0.51
2:K:1208:ASN:N	2:K:1209:PRO:HD3	2.26	0.51
2:K:1309:PHE:CE2	2:K:1360:PRO:HA	2.46	0.51
1:B:1067:LYS:HB3	1:B:1068:TYR:CD1	2.47	0.50
1:B:1106:LEU:HD13	1:B:1142:LEU:HD13	1.93	0.50
1:B:1603:ASP:HB2	1:B:1604:TYR:CD2	2.46	0.50
1:C:768:ARG:HA	1:C:772:THR:OG1	2.11	0.50
1:C:1032:MET:HE3	1:C:1165:PRO:HB3	1.91	0.50
1:D:538:ARG:CG	1:D:579:MET:HE3	2.41	0.50
1:E:17:LEU:HD22	2:K:2041:PRO:HB3	1.92	0.50
1:E:701:ARG:HH11	1:E:1610:ARG:NH2	2.09	0.50
1:E:962:ASN:HB3	2:K:969:ARG:HD2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:965:TYR:CE1	1:E:1199:LEU:CD2	2.93	0.50
1:E:1068:TYR:O	1:E:1072:ILE:HG13	2.10	0.50
1:E:1081:ILE:HA	1:E:1163:GLN:HE22	1.76	0.50
1:F:1099:GLU:HA	1:F:1149:LEU:HD23	1.93	0.50
1:F:1303:LEU:HD23	1:F:1361:VAL:HB	1.92	0.50
2:G:916:GLY:HA2	2:G:929:MET:HE1	1.92	0.50
2:G:1634:SER:HB3	2:G:1684:GLU:HB2	1.92	0.50
2:H:300:THR:HG22	2:H:302:ASP:H	1.75	0.50
2:H:699:ILE:HD12	2:H:699:ILE:H	1.76	0.50
2:J:486:ILE:O	2:J:490:LEU:HG	2.11	0.50
2:J:833:VAL:HG13	2:J:1077:LYS:HA	1.93	0.50
2:J:1067:LEU:HB2	3:J:2101:FMN:HM72	1.92	0.50
2:J:1442:TYR:CA	2:J:1445:THR:HG22	2.40	0.50
2:K:1067:LEU:HD12	2:K:1067:LEU:H	1.76	0.50
2:L:845:ASN:HD21	2:L:849:ARG:HH11	1.59	0.50
2:L:1475:LEU:HD23	2:L:1476:ASP:N	2.26	0.50
2:L:1881:TYR:CG	2:L:2004:PRO:HG3	2.46	0.50
1:A:907:PHE:CZ	1:F:579:MET:HE3	2.46	0.50
1:A:1160:VAL:HG23	1:A:1327:ALA:HB2	1.92	0.50
1:A:1168:TRP:HE1	1:A:1173:TYR:HE1	1.58	0.50
1:A:1184:ASP:OD1	1:A:1185:PRO:HD2	2.11	0.50
1:B:636:TYR:HB2	1:B:888:ILE:HD11	1.91	0.50
1:C:694:TYR:HD2	1:C:695:TYR:CD1	2.30	0.50
1:C:1390:GLY:O	1:F:1264:MET:HB3	2.11	0.50
1:C:1394:PRO:HB3	1:C:1627:PHE:CE2	2.46	0.50
1:D:1446:GLU:HA	1:D:1449:ALA:HB3	1.92	0.50
1:D:1592:ALA:O	1:D:1593:ASP:C	2.55	0.50
1:E:22:PHE:O	2:K:2006:HIS:HA	2.11	0.50
1:E:22:PHE:HE2	2:K:2017:PHE:CG	2.28	0.50
1:E:443:LEU:H	1:E:443:LEU:HD12	1.76	0.50
1:E:726:VAL:HG21	1:E:780:ALA:HB3	1.92	0.50
1:F:570:TYR:O	1:F:574:ILE:HG12	2.11	0.50
1:F:1037:ASN:CG	1:F:1674:ILE:HG23	2.36	0.50
2:G:108:GLU:HA	2:G:111:ARG:HD2	1.93	0.50
2:G:474:THR:HB	2:G:476:GLN:HG2	1.92	0.50
2:G:786:GLU:CD	2:G:786:GLU:H	2.18	0.50
2:G:1521:GLU:OE2	2:G:2028:THR:HG22	2.10	0.50
2:G:1722:ALA:HB2	2:G:1812:LEU:HD11	1.93	0.50
2:G:2013:GLY:O	2:G:2016:PRO:HD2	2.11	0.50
2:H:227:ILE:HD13	2:H:252:LEU:HD13	1.93	0.50
2:H:289:ILE:HG22	2:H:490:LEU:HD22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1099:LEU:HD12	2:H:1103:TYR:HB2	1.93	0.50
2:H:1343:PHE:CE2	2:H:1388:PRO:HD2	2.45	0.50
2:H:1464:LEU:HD13	2:H:1464:LEU:C	2.35	0.50
2:H:1566:LYS:O	2:H:1568:PRO:HD3	2.11	0.50
2:I:573:VAL:CG2	2:I:804:PRO:HB2	2.41	0.50
2:I:573:VAL:HG22	2:I:804:PRO:HB2	1.93	0.50
2:I:1475:LEU:HD23	2:I:1476:ASP:N	2.26	0.50
2:J:613:VAL:CG1	2:J:614:PRO:HD3	2.42	0.50
2:J:980:LEU:CD2	2:J:986:LEU:HD21	2.42	0.50
2:J:1631:ARG:HA	2:J:1686:GLU:HB2	1.93	0.50
2:J:1701:GLU:O	2:J:1704:MET:HE2	2.11	0.50
2:K:747:ARG:NH1	2:K:780:SER:O	2.44	0.50
2:K:1015:HIS:NE2	2:K:1019:LEU:HD11	2.26	0.50
2:K:1751:GLY:O	2:K:1755:LYS:HG2	2.11	0.50
2:L:376:ARG:CB	2:L:394:PRO:HG2	2.40	0.50
2:L:465:LEU:HB2	2:L:479:ARG:HG2	1.93	0.50
2:L:582:LYS:HA	2:L:587:GLN:O	2.11	0.50
2:L:603:VAL:HG22	2:L:810:CYS:SG	2.52	0.50
2:L:832:ILE:HA	2:L:868:LEU:HD21	1.93	0.50
2:L:857:VAL:CG1	2:L:876:TRP:CD1	2.94	0.50
2:L:916:GLY:HA2	2:L:929:MET:HE1	1.92	0.50
2:L:979:LEU:HD21	2:L:999:ALA:CB	2.41	0.50
2:L:1662:ARG:HG2	2:L:1686:GLU:HG2	1.94	0.50
2:L:1722:ALA:HB2	2:L:1812:LEU:HD11	1.93	0.50
1:A:34:VAL:HG11	2:G:2047:PRO:HD3	1.94	0.50
1:A:744:VAL:HG12	1:A:746:PHE:CD1	2.46	0.50
1:A:756:ILE:HA	1:A:759:ILE:HD11	1.93	0.50
1:A:1402:THR:CG2	1:E:1270:THR:HG21	2.40	0.50
1:A:1509:THR:HG1	1:A:1510:TRP:CD1	2.29	0.50
1:A:1702:ARG:CG	1:A:1702:ARG:NH1	2.53	0.50
1:B:1213:VAL:CG1	1:B:1217:GLU:HB2	2.41	0.50
1:B:1402:THR:CG2	1:D:1270:THR:HG21	2.41	0.50
1:C:569:LEU:HD13	1:D:548:VAL:CG2	2.40	0.50
1:C:1401:LEU:O	1:C:1401:LEU:HD22	2.10	0.50
1:C:1443:LEU:HD11	1:C:1470:ARG:HB3	1.93	0.50
1:C:1473:HIS:HE1	1:F:1420:TYR:OH	1.93	0.50
1:D:1041:PRO:HA	1:D:1046:PRO:HA	1.94	0.50
1:E:995:VAL:HG13	1:E:1375:ILE:HG23	1.92	0.50
1:F:1004:PRO:HD3	1:F:1572:TRP:CH2	2.47	0.50
2:G:126:VAL:HG12	2:G:127:ALA:N	2.25	0.50
2:G:298:ALA:HB1	2:G:304:PHE:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:918:ASN:HB3	2:G:924:VAL:HG21	1.93	0.50
2:G:1804:GLN:HG2	2:G:1865:LEU:CD2	2.42	0.50
2:G:1835:GLY:HA3	2:G:1839:GLY:C	2.37	0.50
2:G:1881:TYR:CB	2:G:2004:PRO:HG3	2.42	0.50
2:H:208:LEU:HA	2:H:211:LEU:HD12	1.94	0.50
2:H:579:ARG:HB2	2:H:591:ASP:HB3	1.92	0.50
2:H:1227:LYS:HG2	2:H:1228:LEU:N	2.26	0.50
2:H:1348:PHE:O	2:H:1351:VAL:HG12	2.12	0.50
2:H:1807:GLN:HE22	2:H:1867:MET:HE2	1.76	0.50
2:I:27:THR:HG22	2:I:32:GLU:CD	2.37	0.50
2:I:289:ILE:HD12	2:I:472:THR:OG1	2.11	0.50
2:I:1067:LEU:HB2	3:I:2101:FMN:HM72	1.92	0.50
2:I:1818:PHE:HE2	2:I:1822:ARG:HH12	1.59	0.50
2:J:116:GLY:O	2:J:561:ARG:NH1	2.44	0.50
2:J:699:ILE:N	2:J:699:ILE:HD12	2.25	0.50
2:J:942:MET:HE3	2:J:1029:PRO:HD3	1.92	0.50
2:K:785:SER:CB	2:K:1094:HIS:CD2	2.94	0.50
2:K:1650:THR:O	2:K:1669:ALA:HA	2.12	0.50
2:L:613:VAL:N	2:L:614:PRO:CD	2.75	0.50
2:L:1130:ILE:HB	2:L:1133:LEU:HD22	1.94	0.50
2:L:1236:LEU:O	2:L:1237:VAL:HG23	2.12	0.50
2:L:1346:MET:HE3	2:L:1617:ARG:NH2	2.26	0.50
2:L:1426:VAL:HG12	2:L:1427:MET:HG2	1.93	0.50
2:L:1499:LYS:CG	2:L:1500:ASN:H	2.24	0.50
1:A:444:LEU:HD22	1:A:448:MET:CG	2.42	0.50
1:A:701:ARG:NH1	1:A:1610:ARG:HH21	2.10	0.50
1:A:831:GLU:HG2	1:F:755:GLU:CG	2.41	0.50
1:A:956:ILE:HA	2:G:977:PRO:HA	1.94	0.50
1:A:973:TRP:CD1	1:A:1648:LYS:HD2	2.47	0.50
1:C:15:VAL:HG11	2:I:2022:LEU:HD21	1.92	0.50
1:C:613:PRO:HD3	1:C:628:TYR:CE2	2.47	0.50
1:C:718:SER:HB3	1:C:721:ASP:HB2	1.94	0.50
1:C:1674:ILE:HD12	2:I:1010:ALA:HB3	1.94	0.50
1:D:918:LEU:O	1:D:921:GLU:HG3	2.12	0.50
1:D:998:GLY:CA	1:D:1361:VAL:HG13	2.39	0.50
1:D:1512:LEU:HD21	1:D:1641:TYR:CE2	2.46	0.50
1:E:41:THR:HG22	2:K:1689:VAL:HG12	1.94	0.50
1:E:1001:GLU:HG2	1:E:1008:ALA:HB2	1.94	0.50
1:F:655:ALA:HB3	1:F:680:VAL:HG12	1.93	0.50
2:G:421:PHE:HB3	2:G:844:GLU:OE2	2.11	0.50
2:G:1324:PHE:HA	2:G:1583:VAL:HG11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1662:ARG:HG2	2:G:1686:GLU:HG2	1.91	0.50
2:G:1866:THR:HA	2:G:1869:VAL:CG2	2.41	0.50
2:H:778:ALA:HB2	2:H:807:PHE:CD2	2.46	0.50
2:H:937:ARG:HG3	2:H:941:LEU:HD12	1.92	0.50
2:H:1064:THR:HG22	2:H:1065:CYS:N	2.26	0.50
2:H:1200:ARG:HD3	2:H:1200:ARG:N	2.24	0.50
2:H:1745:LEU:HB3	2:H:1799:LEU:CD2	2.41	0.50
2:I:980:LEU:HD21	2:I:986:LEU:HD21	1.93	0.50
2:J:440:HIS:CD2	2:J:499:VAL:HG23	2.46	0.50
2:J:447:ALA:O	2:J:451:ILE:HG13	2.11	0.50
2:J:506:VAL:O	2:J:506:VAL:HG22	2.12	0.50
2:J:578:PRO:HG3	2:J:792:LEU:O	2.11	0.50
2:J:1555:VAL:O	2:J:1555:VAL:HG12	2.12	0.50
2:J:1804:GLN:HG2	2:J:1865:LEU:CD2	2.40	0.50
2:K:462:ALA:HB3	2:K:481:LEU:O	2.12	0.50
2:K:1160:PHE:CE1	2:K:1164:ILE:HD11	2.47	0.50
2:K:1291:ARG:HD2	2:K:1297:LYS:HG2	1.93	0.50
2:L:189:ILE:HD13	2:L:259:ALA:HB3	1.92	0.50
2:L:573:VAL:HG22	2:L:804:PRO:HB2	1.92	0.50
2:L:928:ASP:HA	2:L:1007:LEU:HD23	1.92	0.50
2:L:1291:ARG:HD2	2:L:1297:LYS:HG2	1.94	0.50
2:L:1382:MET:CB	2:L:1633:ARG:HH11	2.25	0.50
2:L:1442:TYR:O	2:L:1445:THR:HG22	2.12	0.50
2:L:1764:MET:HB3	2:L:1780:ILE:CD1	2.41	0.50
1:A:689:ARG:NH1	1:A:1339:GLU:OE2	2.45	0.50
1:A:1301:VAL:HG23	1:A:1363:MET:HG3	1.93	0.50
1:A:1535:SER:HB3	1:A:1602:PHE:CD1	2.47	0.50
1:B:1606:VAL:O	1:B:1608:PRO:HD3	2.11	0.50
1:C:476:ASN:O	1:C:480:VAL:HG23	2.12	0.50
1:C:535:TYR:CG	1:C:610:GLU:N	2.79	0.50
1:C:1250:LEU:HB2	1:F:1317:GLU:CG	2.41	0.50
1:C:1523:HIS:HB2	1:C:1624:SER:HA	1.94	0.50
1:D:432:GLN:O	1:D:436:ILE:HG13	2.12	0.50
1:D:1493:PHE:HE2	1:D:1509:THR:HG22	1.76	0.50
1:E:1038:HIS:CE1	1:E:1042:LEU:HG	2.47	0.50
1:E:1565:PRO:HG3	1:E:1572:TRP:CH2	2.46	0.50
1:F:716:GLN:HB3	1:F:769:ILE:HG23	1.94	0.50
1:F:1218:VAL:HG13	1:F:1301:VAL:HG13	1.94	0.50
1:F:1672:GLY:HA3	1:F:1678:LEU:HD23	1.94	0.50
2:G:193:TYR:O	2:G:197:VAL:HG23	2.12	0.50
2:G:196:PHE:O	2:G:262:MET:HE1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:486:ILE:O	2:G:490:LEU:HG	2.11	0.50
2:G:501:TRP:CZ2	2:G:528:THR:HG21	2.46	0.50
2:G:957:LYS:HE2	2:G:1022:ARG:HH22	1.76	0.50
2:G:1223:SER:CB	2:G:1226:ALA:HB3	2.40	0.50
2:G:1251:THR:HG22	2:G:1292:VAL:HG13	1.93	0.50
2:G:1290:TYR:CG	2:G:1299:VAL:CG1	2.90	0.50
2:H:465:LEU:HB2	2:H:479:ARG:HG2	1.92	0.50
2:H:1316:VAL:HG13	2:H:1348:PHE:HE2	1.76	0.50
2:H:1631:ARG:HA	2:H:1686:GLU:HB2	1.93	0.50
2:H:1873:ARG:NH1	2:H:2002:ASP:HB3	2.26	0.50
2:I:1259:LEU:HB2	2:I:1288:PHE:CD1	2.46	0.50
2:I:1515:LEU:HB3	2:I:1525:VAL:CG2	2.42	0.50
2:I:1728:GLU:O	2:I:1757:ILE:HD11	2.11	0.50
2:J:117:ASN:HA	2:J:561:ARG:HD2	1.92	0.50
2:J:779:GLY:O	2:J:780:SER:CB	2.52	0.50
2:J:1441:ASP:C	2:J:1443:GLU:H	2.18	0.50
2:J:1483:LEU:HD21	2:J:1525:VAL:HG11	1.94	0.50
2:J:1694:PHE:HD2	2:J:1843:ALA:CB	2.24	0.50
2:J:1871:VAL:CG1	2:J:1872:GLU:N	2.75	0.50
2:K:73:VAL:HA	2:K:113:PHE:CE2	2.46	0.50
2:K:289:ILE:HG21	2:K:493:MET:CE	2.42	0.50
2:K:356:LEU:HB3	2:K:361:VAL:HG23	1.93	0.50
2:K:455:VAL:O	2:K:455:VAL:HG12	2.12	0.50
2:K:594:MET:HE1	2:K:604:MET:HB3	1.93	0.50
2:K:746:GLY:HA3	2:K:843:TRP:CZ2	2.47	0.50
2:K:1265:TYR:CE2	2:K:1267:PRO:HG3	2.46	0.50
2:K:1359:LYS:N	2:K:1360:PRO:CD	2.75	0.50
2:L:485:ASP:CB	2:L:488:PRO:CD	2.86	0.50
2:L:1067:LEU:HB2	3:L:2101:FMN:HM72	1.93	0.50
2:L:1227:LYS:HG2	2:L:1228:LEU:N	2.26	0.50
2:L:1904:VAL:HG22	2:L:1939:LEU:HD22	1.93	0.50
1:B:1336:GLU:O	1:B:1340:MET:HG2	2.12	0.50
1:C:529:GLY:HA3	1:C:611:THR:CG2	2.41	0.50
1:C:883:LEU:N	1:C:883:LEU:HD23	2.27	0.50
1:C:1179:ILE:O	1:C:1183:VAL:HG23	2.11	0.50
1:D:619:LYS:HG2	1:D:620:LYS:N	2.24	0.50
1:D:621:ASP:HB3	1:D:625:ASN:HB2	1.94	0.50
1:D:1591:ASN:C	1:D:1593:ASP:H	2.20	0.50
1:E:13:LEU:HG	2:K:2048:PHE:CE1	2.47	0.50
1:E:476:ASN:O	1:E:480:VAL:HG23	2.11	0.50
1:E:1213:VAL:CG2	1:E:1300:ARG:HH21	2.15	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1446:GLU:HA	1:E:1449:ALA:HB3	1.94	0.50
1:F:726:VAL:HG21	1:F:780:ALA:HB3	1.94	0.50
1:F:1213:VAL:CG1	1:F:1217:GLU:HB2	2.41	0.50
1:F:1591:ASN:C	1:F:1593:ASP:H	2.20	0.50
2:G:73:VAL:HA	2:G:113:PHE:CE2	2.47	0.50
2:G:857:VAL:CG1	2:G:876:TRP:NE1	2.75	0.50
2:G:1097:PHE:CD2	2:G:1100:ARG:NH1	2.80	0.50
2:G:1709:TYR:C	2:G:1709:TYR:CD2	2.90	0.50
2:G:2073:ASN:O	2:G:2076:LYS:HB3	2.11	0.50
2:H:1315:ILE:HD12	2:H:1315:ILE:H	1.77	0.50
2:I:170:TYR:CE1	2:I:510:ALA:HB2	2.46	0.50
2:I:775:VAL:O	2:I:777:VAL:HG23	2.10	0.50
2:I:855:ILE:HB	2:I:869:ALA:HB2	1.94	0.50
2:I:1356:ALA:CB	2:I:1397:THR:HG22	2.42	0.50
2:J:1259:LEU:HB2	2:J:1288:PHE:CE1	2.46	0.50
2:J:1442:TYR:CG	2:J:1499:LYS:O	2.65	0.50
2:J:1593:SER:HG	2:J:1596:PHE:HB2	1.74	0.50
2:J:1767:GLU:CB	2:J:2016:PRO:CG	2.72	0.50
2:K:573:VAL:CG2	2:K:804:PRO:HB2	2.41	0.50
2:K:604:MET:HE1	2:K:777:VAL:HG11	1.93	0.50
2:K:730:ILE:O	2:K:733:ALA:HB3	2.12	0.50
2:K:1766:PHE:CE2	2:K:1869:VAL:HG23	2.46	0.50
2:K:1807:GLN:HE22	2:K:1867:MET:HE2	1.77	0.50
2:L:24:LEU:HD12	2:L:37:VAL:CG2	2.39	0.50
2:L:289:ILE:HD12	2:L:472:THR:OG1	2.12	0.50
2:L:336:LEU:HD23	2:L:336:LEU:C	2.37	0.50
2:L:505:THR:O	2:L:505:THR:HG22	2.11	0.50
2:L:871:ARG:CZ	2:L:909:ASP:HB3	2.42	0.50
1:A:22:PHE:HE2	2:G:2017:PHE:CG	2.29	0.50
1:A:648:LEU:HD12	1:A:649:THR:H	1.76	0.50
1:B:628:TYR:CD1	1:B:629:SER:N	2.71	0.50
1:B:998:GLY:CA	1:B:1361:VAL:HG13	2.39	0.50
1:B:1099:GLU:HA	1:B:1149:LEU:HD23	1.92	0.50
1:B:1699:PRO:HG3	1:D:1405:ARG:C	2.37	0.50
1:C:612:ILE:HG23	1:C:628:TYR:CE2	2.46	0.50
1:C:960:ARG:HH12	2:I:968:GLU:CD	2.17	0.50
1:E:954:ARG:HD3	2:K:977:PRO:CG	2.41	0.50
1:F:439:ARG:O	1:F:444:LEU:HD12	2.12	0.50
1:F:621:ASP:HB3	1:F:625:ASN:H	1.77	0.50
1:F:967:PHE:CD2	1:F:1374:PRO:HG3	2.47	0.50
1:F:1647:ASP:C	1:F:1649:ALA:N	2.68	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1208:ASN:N	2:G:1209:PRO:HD3	2.27	0.50
2:G:1510:ILE:HA	2:G:1528:VAL:O	2.12	0.50
2:H:189:ILE:HD13	2:H:259:ALA:HB3	1.93	0.50
2:H:746:GLY:HA3	2:H:843:TRP:CZ2	2.47	0.50
2:H:1515:LEU:HB3	2:H:1525:VAL:CG2	2.42	0.50
2:H:1845:VAL:HG21	2:H:1856:LEU:HD22	1.92	0.50
2:I:179:ILE:O	2:I:179:ILE:HG23	2.11	0.50
2:I:189:ILE:HD13	2:I:259:ALA:HB3	1.92	0.50
2:I:718:PRO:HG3	2:I:727:VAL:HG21	1.92	0.50
2:I:1141:LYS:HE2	2:I:1143:SER:HB2	1.92	0.50
2:J:129:ILE:HG21	2:J:132:LYS:HG3	1.93	0.50
2:J:580:LEU:HD11	2:J:1098:LEU:HB3	1.93	0.50
2:J:617:PHE:CD1	2:J:822:ALA:HA	2.46	0.50
2:J:1516:GLU:HA	2:J:1521:GLU:O	2.11	0.50
2:K:135:GLY:HA2	2:K:138:ARG:NH1	2.26	0.50
2:K:916:GLY:HA2	2:K:929:MET:HE1	1.94	0.50
2:K:1499:LYS:CG	2:K:1500:ASN:H	2.25	0.50
2:K:1574:PRO:HD3	2:K:1611:TYR:CE2	2.47	0.50
2:L:416:GLN:HA	2:L:419:ILE:HG13	1.92	0.50
2:L:1160:PHE:O	2:L:1164:ILE:HG13	2.11	0.50
2:L:1631:ARG:HA	2:L:1686:GLU:HB2	1.93	0.50
2:L:2052:LYS:HB3	2:L:2074:TRP:CZ2	2.45	0.50
1:A:533:SER:CB	1:A:612:ILE:HB	2.35	0.50
1:A:755:GLU:CG	1:F:831:GLU:HG2	2.38	0.50
1:A:1344:THR:HG22	1:A:1599:MET:HE3	1.93	0.50
1:C:1098:GLN:HB2	1:C:1152:LYS:HE2	1.93	0.50
1:D:962:ASN:CB	2:J:969:ARG:HD2	2.41	0.50
1:E:935:GLU:HG3	2:K:1466:VAL:CG1	2.41	0.50
1:F:859:VAL:HG22	1:F:918:LEU:HB3	1.92	0.50
1:F:1011:ARG:HD2	1:F:1011:ARG:C	2.37	0.50
1:F:1159:LEU:HD12	1:F:1327:ALA:HB3	1.93	0.50
1:F:1544:HIS:O	1:F:1544:HIS:CG	2.64	0.50
2:G:781:GLY:HA2	2:G:1071:VAL:CG1	2.37	0.50
2:G:1483:LEU:HD21	2:G:1525:VAL:HG11	1.93	0.50
2:H:1475:LEU:HD23	2:H:1476:ASP:N	2.27	0.50
2:H:1884:CYS:HB3	2:H:1936:LEU:CD1	2.42	0.50
2:I:120:HIS:CD2	2:I:137:VAL:HG11	2.47	0.50
2:I:613:VAL:N	2:I:614:PRO:CD	2.75	0.50
2:I:1061:VAL:HG11	2:I:1066:ILE:HD11	1.92	0.50
2:I:1371:LEU:O	2:I:1590:ILE:HD11	2.12	0.50
2:I:1440:THR:HG22	2:I:1440:THR:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1764:MET:HG3	2:I:1781:PHE:CE1	2.46	0.50
2:J:356:LEU:HB3	2:J:361:VAL:HG23	1.94	0.50
2:J:505:THR:O	2:J:505:THR:HG22	2.12	0.50
2:J:1175:MET:HE2	2:J:1234:ILE:HG21	1.92	0.50
2:K:245:SER:HA	2:K:436:THR:HG21	1.94	0.50
2:K:332:ALA:N	2:L:1627:ASN:HD21	2.09	0.50
2:K:1835:GLY:HA3	2:K:1839:GLY:C	2.36	0.50
2:L:170:TYR:CE1	2:L:510:ALA:HB2	2.47	0.50
2:L:1694:PHE:CD2	2:L:1843:ALA:CA	2.94	0.50
1:A:612:ILE:HG12	1:A:628:TYR:HD2	1.76	0.50
1:A:628:TYR:HD1	1:A:628:TYR:C	2.20	0.50
1:A:768:ARG:HA	1:A:772:THR:OG1	2.12	0.50
1:A:1068:TYR:O	1:A:1072:ILE:HG13	2.12	0.50
1:B:427:ARG:HD2	1:B:490:VAL:HG12	1.94	0.50
1:B:619:LYS:HG2	1:B:620:LYS:N	2.26	0.50
1:B:1014:MET:O	1:B:1590:ARG:NH2	2.30	0.50
1:B:1037:ASN:HD21	2:H:1011:GLN:HG2	1.77	0.50
1:B:1164:ILE:CD1	1:B:1355:GLN:HG3	2.41	0.50
1:C:562:SER:HB3	1:D:551:LEU:HD21	1.94	0.50
1:C:1402:THR:CG2	1:F:1270:THR:HG21	2.41	0.50
1:C:1431:GLN:OE1	1:F:1431:GLN:HG2	2.12	0.50
1:D:414:TYR:C	1:D:414:TYR:CD2	2.90	0.50
1:D:577:LEU:HB2	1:D:579:MET:HG3	1.94	0.50
1:D:961:ALA:CB	1:D:1022:LEU:HD12	2.30	0.50
1:D:1580:VAL:HG22	1:D:1585:ILE:O	2.12	0.50
1:D:1638:HIS:ND1	1:D:1639:PRO:HD2	2.27	0.50
1:E:14:LEU:HD21	2:K:1844:LEU:HD21	1.93	0.50
2:G:102:LEU:O	2:G:106:LEU:HG	2.12	0.50
2:G:480:GLU:HG2	2:G:480:GLU:O	2.12	0.50
2:G:555:LYS:HB3	2:G:556:PRO:HD3	1.94	0.50
2:G:752:HIS:CE1	2:G:847:TYR:CE2	2.93	0.50
2:G:1762:MET:HG2	2:G:1779:LYS:HZ1	1.76	0.50
2:H:24:LEU:CD1	2:H:45:ALA:HB1	2.42	0.50
2:H:135:GLY:HA2	2:H:138:ARG:NH1	2.27	0.50
2:H:501:TRP:HZ2	2:H:528:THR:HG21	1.77	0.50
2:H:871:ARG:CZ	2:H:909:ASP:HB3	2.42	0.50
2:H:1154:LEU:HD13	2:H:1198:PRO:HB3	1.93	0.50
2:I:174:GLY:H	2:I:517:GLY:CA	2.25	0.50
2:I:743:TRP:CE2	2:I:761:ILE:HD11	2.46	0.50
2:I:743:TRP:CG	2:I:761:ILE:HD11	2.47	0.50
2:I:776:LEU:HG	2:I:807:PHE:CD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:788:THR:HG21	2:I:810:CYS:SG	2.52	0.50
2:I:911:GLN:HE21	2:I:1065:CYS:H	1.59	0.50
2:I:979:LEU:HD21	2:I:999:ALA:CB	2.42	0.50
2:I:1468:ARG:CG	2:I:1468:ARG:NH1	2.52	0.50
2:J:329:THR:OG1	2:K:1338:ARG:NH1	2.45	0.50
2:J:911:GLN:HE21	2:J:1065:CYS:H	1.59	0.50
2:J:937:ARG:HG3	2:J:941:LEU:HD12	1.92	0.50
2:J:1229:VAL:HG12	2:J:1230:LYS:N	2.26	0.50
2:J:1318:ALA:HA	2:J:1391:VAL:CG2	2.40	0.50
2:J:1468:ARG:CG	2:J:1468:ARG:NH1	2.51	0.50
2:K:170:TYR:CD2	2:K:507:PHE:HB3	2.47	0.50
2:K:617:PHE:HD1	2:K:822:ALA:HA	1.76	0.50
2:K:785:SER:O	2:K:789:TYR:HB2	2.12	0.50
2:L:289:ILE:HG21	2:L:493:MET:HE1	1.94	0.50
2:L:290:VAL:HA	2:L:490:LEU:CD1	2.40	0.50
2:L:613:VAL:N	2:L:614:PRO:HD3	2.27	0.50
2:L:1315:ILE:HA	2:L:1393:ASP:O	2.12	0.50
1:A:962:ASN:ND2	2:G:1006:GLN:HE22	2.04	0.49
1:B:358:PHE:CD2	1:B:358:PHE:C	2.90	0.49
1:B:988:VAL:HG12	1:B:990:LEU:HD23	1.93	0.49
1:B:1344:THR:HG22	1:B:1599:MET:HE3	1.94	0.49
1:B:1394:PRO:HB3	1:B:1627:PHE:CE2	2.47	0.49
1:B:1692:GLN:HG3	1:B:1696:PHE:CE2	2.46	0.49
1:C:339:GLN:O	1:C:343:ILE:HG13	2.12	0.49
1:C:1251:GLN:HG3	1:F:1321:MET:HE1	1.93	0.49
1:C:1420:TYR:OH	1:F:1473:HIS:HE1	1.95	0.49
1:D:833:TRP:CH2	1:D:839:ILE:HD11	2.42	0.49
1:D:1473:HIS:C	1:D:1473:HIS:ND1	2.70	0.49
1:E:458:GLU:H	1:E:458:GLU:CD	2.20	0.49
1:E:1142:LEU:HD12	1:E:1142:LEU:N	2.27	0.49
1:E:1359:VAL:HG12	1:E:1360:GLN:N	2.27	0.49
1:F:476:ASN:O	1:F:480:VAL:HG23	2.11	0.49
1:F:1692:GLN:HG3	1:F:1696:PHE:CE2	2.46	0.49
2:G:290:VAL:HA	2:G:490:LEU:CD1	2.42	0.49
2:G:300:THR:HG22	2:G:302:ASP:H	1.76	0.49
2:G:458:MET:C	2:G:459:LYS:HG3	2.37	0.49
2:G:857:VAL:HG13	2:G:876:TRP:HE1	1.77	0.49
2:G:1626:GLU:O	2:G:1627:ASN:HB2	2.12	0.49
2:H:1091:HIS:O	2:H:1094:HIS:HB2	2.11	0.49
2:I:617:PHE:HD1	2:I:822:ALA:HA	1.76	0.49
2:I:731:ALA:HA	2:I:739:ILE:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1411:LYS:O	2:I:1434:LEU:HD12	2.11	0.49
2:I:1883:MET:HB2	2:I:2001:ILE:HD12	1.93	0.49
2:J:298:ALA:HB1	2:J:304:PHE:HA	1.93	0.49
2:J:676:LEU:HD23	2:J:679:ARG:HH21	1.77	0.49
2:J:1543:TYR:HD2	2:J:1544:LEU:HD23	1.76	0.49
2:J:1896:THR:HG22	2:J:1898:GLN:N	2.22	0.49
2:K:208:LEU:HD12	2:K:227:ILE:HD11	1.94	0.49
2:K:376:ARG:HH21	2:L:1339:GLY:HA2	1.77	0.49
2:K:1304:PRO:O	2:K:1307:ALA:HB3	2.11	0.49
2:K:1566:LYS:O	2:K:1568:PRO:HD3	2.12	0.49
2:K:1631:ARG:HA	2:K:1686:GLU:HB2	1.94	0.49
1:A:997:THR:HB	1:A:1363:MET:HE2	1.94	0.49
1:B:406:ALA:CA	1:B:439:ARG:HH11	2.20	0.49
1:B:414:TYR:C	1:B:414:TYR:CD2	2.91	0.49
1:B:811:ASP:OD1	1:B:811:ASP:N	2.44	0.49
1:C:1014:MET:O	1:C:1590:ARG:NH2	2.31	0.49
1:E:503:ARG:HA	1:E:933:ILE:HD11	1.93	0.49
1:E:651:GLN:HA	1:E:677:GLY:HA3	1.94	0.49
1:E:1213:VAL:CG1	1:E:1217:GLU:HB2	2.42	0.49
1:F:1547:ARG:HG2	1:F:1604:TYR:CD1	2.44	0.49
2:G:44:GLN:HE21	2:G:48:LEU:HD21	1.76	0.49
2:G:1871:VAL:HG23	2:G:2003:VAL:HG13	1.94	0.49
2:G:1902:TYR:OH	2:G:1966:ARG:HB2	2.12	0.49
2:H:47:GLN:HG3	2:I:23:PRO:HD2	1.94	0.49
2:H:1835:GLY:HA3	2:H:1839:GLY:C	2.37	0.49
2:I:44:GLN:HE21	2:I:48:LEU:HD21	1.77	0.49
2:I:126:VAL:HG12	2:I:127:ALA:N	2.26	0.49
2:I:300:THR:HG22	2:I:302:ASP:H	1.75	0.49
2:I:474:THR:HB	2:I:476:GLN:HG2	1.92	0.49
2:I:930:THR:HG23	2:I:933:GLU:H	1.77	0.49
2:I:1130:ILE:HB	2:I:1133:LEU:HD22	1.94	0.49
2:I:1402:ASN:O	2:I:1403:ALA:HB2	2.12	0.49
2:J:455:VAL:O	2:J:455:VAL:HG12	2.12	0.49
2:J:1579:ASN:O	2:J:1583:VAL:HG23	2.13	0.49
2:J:1888:PRO:HB3	2:J:1895:PHE:CD1	2.46	0.49
2:K:27:THR:HG22	2:K:32:GLU:CD	2.37	0.49
2:K:186:LEU:CG	2:K:256:VAL:HG22	2.42	0.49
2:K:298:ALA:HB1	2:K:304:PHE:HA	1.93	0.49
2:K:731:ALA:HA	2:K:739:ILE:HD12	1.93	0.49
2:K:1236:LEU:O	2:K:1237:VAL:HG23	2.12	0.49
2:K:1372:LYS:O	2:K:1436:ARG:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1802:ALA:HB1	2:K:1804:GLN:NE2	2.18	0.49
2:L:529:ASN:HD22	2:L:552:VAL:CG2	2.25	0.49
2:L:752:HIS:CE1	2:L:847:TYR:CE2	2.95	0.49
2:L:833:VAL:HG13	2:L:1077:LYS:HA	1.94	0.49
2:L:1543:TYR:HD2	2:L:1544:LEU:HD23	1.77	0.49
1:A:408:GLN:NE2	1:A:1609:SER:H	2.10	0.49
1:A:987:MET:O	1:A:1490:GLY:HA3	2.12	0.49
1:B:453:ASP:HB2	1:B:454:HIS:HD2	1.77	0.49
1:B:628:TYR:CD1	1:B:628:TYR:C	2.88	0.49
1:B:997:THR:CB	1:B:1363:MET:HE2	2.41	0.49
1:B:1270:THR:HA	1:D:1386:THR:O	2.12	0.49
1:B:1536:ASP:N	1:B:1602:PHE:HE1	2.09	0.49
1:C:1071:TYR:C	1:C:1071:TYR:CD2	2.90	0.49
1:C:1697:LEU:HD21	1:F:1401:LEU:HD22	1.93	0.49
1:D:1098:GLN:HB2	1:D:1152:LYS:HE2	1.94	0.49
1:D:1602:PHE:N	1:D:1602:PHE:HD2	2.09	0.49
1:E:404:ASN:HD21	1:E:1607:TYR:H	1.61	0.49
1:E:536:SER:HB3	1:E:540:LYS:HD2	1.94	0.49
1:E:1050:TRP:HA	1:E:1050:TRP:CE3	2.48	0.49
1:F:349:MET:HE2	1:F:351:LEU:HD23	1.93	0.49
1:F:349:MET:HE2	1:F:351:LEU:CD2	2.43	0.49
1:F:1425:LEU:CD2	1:F:1429:ARG:HH21	2.17	0.49
1:F:1685:ALA:HB1	1:F:1686:PRO:CD	2.42	0.49
2:G:1587:TYR:O	2:G:1588:ASN:C	2.54	0.49
2:H:126:VAL:HG12	2:H:127:ALA:N	2.26	0.49
2:H:289:ILE:HD12	2:H:472:THR:OG1	2.12	0.49
2:H:298:ALA:HB1	2:H:304:PHE:HA	1.95	0.49
2:H:595:SER:HB2	2:H:600:VAL:O	2.12	0.49
2:H:1603:PRO:HB2	2:H:1644:LEU:HD21	1.93	0.49
2:H:1764:MET:HG3	2:H:1781:PHE:HE1	1.78	0.49
2:I:170:TYR:CE2	2:I:507:PHE:HB3	2.47	0.49
2:I:487:ILE:HB	2:I:488:PRO:CD	2.41	0.49
2:I:580:LEU:O	2:I:581:VAL:HG23	2.12	0.49
2:I:1452:VAL:O	2:I:1454:MET:HG3	2.11	0.49
2:I:1603:PRO:HB2	2:I:1644:LEU:HD21	1.94	0.49
2:I:2052:LYS:HD3	2:I:2074:TRP:CE2	2.47	0.49
2:J:381:SER:HB2	2:J:440:HIS:HB2	1.94	0.49
2:J:460:ILE:HD13	2:J:487:ILE:HD11	1.93	0.49
2:J:1093:ASP:O	2:J:1097:PHE:CD1	2.61	0.49
2:J:1115:TYR:HB3	2:J:1267:PRO:HB3	1.92	0.49
2:J:1137:ARG:HB3	2:J:1142:ILE:HG23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1464:LEU:C	2:J:1464:LEU:HD13	2.37	0.49
2:K:250:PHE:O	2:K:315:LEU:HD23	2.13	0.49
2:K:336:LEU:C	2:K:336:LEU:HD23	2.36	0.49
2:K:472:THR:H	2:K:493:MET:HE3	1.76	0.49
2:K:487:ILE:HB	2:K:488:PRO:CD	2.39	0.49
2:K:505:THR:HG22	2:K:505:THR:O	2.11	0.49
2:K:1251:THR:CG2	2:K:1292:VAL:HG13	2.41	0.49
2:K:1899:ALA:O	2:K:1903:VAL:HG23	2.12	0.49
2:L:119:VAL:HG21	2:L:140:TYR:CD2	2.47	0.49
2:L:617:PHE:CD1	2:L:822:ALA:HA	2.47	0.49
2:L:957:LYS:HE2	2:L:1022:ARG:HH22	1.78	0.49
2:L:1093:ASP:O	2:L:1097:PHE:CD1	2.62	0.49
1:A:374:LEU:HD11	1:F:389:PRO:HD3	1.93	0.49
1:A:476:ASN:O	1:A:480:VAL:HG23	2.13	0.49
1:A:539:THR:O	1:A:542:GLN:HG2	2.12	0.49
1:A:907:PHE:O	1:A:909:PRO:HD3	2.12	0.49
1:A:1081:ILE:HA	1:A:1163:GLN:NE2	2.26	0.49
1:A:1338:GLY:H	1:A:1340:MET:HG3	1.76	0.49
1:A:1524:GLY:HA2	1:A:1531:ASP:OD1	2.13	0.49
1:B:1149:LEU:HD12	1:D:1097:LEU:HD13	1.94	0.49
1:B:1359:VAL:HG12	1:B:1360:GLN:N	2.27	0.49
1:B:1682:LYS:HB3	1:D:1389:ILE:HD13	1.93	0.49
1:C:767:HIS:CE1	1:D:767:HIS:CE1	3.00	0.49
1:D:1378:ILE:HD11	1:D:1642:LEU:HB2	1.93	0.49
1:E:1159:LEU:HD12	1:E:1327:ALA:HB3	1.95	0.49
1:E:1218:VAL:HG13	1:E:1301:VAL:HG13	1.94	0.49
1:F:1001:GLU:C	1:F:1002:ILE:HD12	2.38	0.49
1:F:1041:PRO:HA	1:F:1046:PRO:HA	1.94	0.49
2:G:246:ALA:HB3	2:G:247:PRO:HD3	1.94	0.49
2:G:342:ASN:HB2	2:G:406:ARG:NH2	2.27	0.49
2:G:388:ASN:HD22	2:G:389:PHE:N	2.10	0.49
2:G:608:MET:H	2:G:612:THR:CB	2.24	0.49
2:G:1918:VAL:HG22	2:G:2006:HIS:O	2.13	0.49
2:H:1067:LEU:HD12	2:H:1067:LEU:H	1.75	0.49
2:H:1708:LEU:O	2:H:1708:LEU:HD22	2.12	0.49
2:H:2013:GLY:O	2:H:2016:PRO:HD2	2.12	0.49
2:I:24:LEU:CD1	2:I:45:ALA:HB1	2.42	0.49
2:I:480:GLU:O	2:I:480:GLU:HG2	2.13	0.49
2:I:1745:LEU:HD12	2:I:1746:THR:N	2.28	0.49
2:J:186:LEU:HD21	2:J:256:VAL:HG22	1.94	0.49
2:J:197:VAL:CG2	2:J:263:ILE:HD11	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:609:THR:HG23	3:J:2101:FMN:O4	2.12	0.49
2:J:845:ASN:HD21	2:J:849:ARG:HH11	1.59	0.49
2:J:1064:THR:HG22	2:J:1065:CYS:N	2.26	0.49
2:J:1156:ASP:CB	2:J:1159:SER:H	2.18	0.49
2:J:1359:LYS:N	2:J:1360:PRO:CD	2.75	0.49
2:J:1566:LYS:O	2:J:1568:PRO:HD3	2.13	0.49
2:K:327:PRO:N	2:L:1338:ARG:NH2	2.60	0.49
2:K:928:ASP:HA	2:K:1007:LEU:HD23	1.93	0.49
2:L:378:ILE:HG23	2:L:391:VAL:CG1	2.42	0.49
2:L:1137:ARG:HB3	2:L:1142:ILE:HG23	1.95	0.49
2:L:1192:LEU:HD22	2:L:1196:PHE:CE1	2.47	0.49
2:L:2073:ASN:O	2:L:2076:LYS:HB3	2.12	0.49
1:A:833:TRP:CH2	1:A:839:ILE:HD11	2.42	0.49
1:A:902:ASN:C	1:A:904:GLY:H	2.20	0.49
1:B:335:LEU:HD12	1:B:335:LEU:O	2.12	0.49
1:B:655:ALA:HB2	1:B:742:TYR:HB2	1.95	0.49
1:B:701:ARG:NH1	1:B:1610:ARG:NH2	2.60	0.49
1:B:1270:THR:HG21	1:D:1402:THR:CG2	2.42	0.49
1:C:628:TYR:OH	1:C:630:LYS:HG2	2.12	0.49
1:C:902:ASN:C	1:C:904:GLY:H	2.19	0.49
1:C:1214:HIS:CD2	1:C:1216:SER:OG	2.61	0.49
1:C:1565:PRO:CG	1:C:1572:TRP:CZ3	2.95	0.49
1:C:1591:ASN:C	1:C:1593:ASP:H	2.20	0.49
1:D:43:ARG:HH11	2:J:1687:GLN:HE21	1.60	0.49
1:D:339:GLN:O	1:D:343:ILE:HG13	2.12	0.49
1:D:918:LEU:HA	1:D:921:GLU:HG2	1.95	0.49
1:D:1078:ILE:HB	1:D:1338:GLY:HA3	1.95	0.49
1:E:470:GLY:O	1:E:474:ILE:HG13	2.13	0.49
1:E:628:TYR:HE1	1:E:630:LYS:HA	1.77	0.49
1:E:997:THR:HB	1:E:1363:MET:HE2	1.95	0.49
1:E:1386:THR:HG22	1:E:1387:ASP:N	2.28	0.49
1:E:1512:LEU:HD21	1:E:1641:TYR:CE2	2.47	0.49
1:F:689:ARG:HH21	1:F:1591:ASN:ND2	2.10	0.49
1:F:1534:GLU:HG2	1:F:1625:PHE:HE1	1.76	0.49
2:G:1265:TYR:CE2	2:G:1267:PRO:HG3	2.47	0.49
2:G:1266:HIS:C	2:G:1268:GLU:H	2.20	0.49
2:G:1346:MET:HG2	2:G:1617:ARG:NH2	2.26	0.49
2:G:1708:LEU:O	2:G:1708:LEU:HD22	2.12	0.49
2:H:289:ILE:HD13	2:H:493:MET:HE1	1.94	0.49
2:H:930:THR:HG23	2:H:933:GLU:H	1.75	0.49
2:H:1120:ILE:HD11	2:H:1169:TYR:CE1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1426:VAL:HG12	2:H:1427:MET:HG2	1.95	0.49
2:H:2052:LYS:HD3	2:H:2074:TRP:CE2	2.47	0.49
2:I:336:LEU:HD23	2:I:336:LEU:C	2.38	0.49
2:I:718:PRO:HG2	2:I:741:LEU:CD1	2.42	0.49
2:I:1285:ILE:O	2:I:1288:PHE:HB3	2.13	0.49
2:I:1291:ARG:HD2	2:I:1297:LYS:HG2	1.95	0.49
2:I:1617:ARG:HB2	2:I:1635:TYR:CZ	2.47	0.49
2:I:1851:MET:SD	2:I:1856:LEU:HA	2.52	0.49
2:J:141:TYR:OH	2:J:267:THR:HG23	2.11	0.49
2:J:350:MET:HG3	2:J:435:ILE:CG2	2.43	0.49
2:J:1286:LYS:HZ3	2:J:1367:ASP:HA	1.77	0.49
2:K:156:SER:HB3	2:K:558:LEU:O	2.13	0.49
2:K:785:SER:HB3	2:K:1094:HIS:CD2	2.47	0.49
2:L:1348:PHE:CE1	2:L:1351:VAL:HG11	2.48	0.49
2:L:1402:ASN:O	2:L:1403:ALA:HB2	2.13	0.49
1:A:655:ALA:CB	1:A:742:TYR:HB2	2.42	0.49
1:A:1378:ILE:HD11	1:A:1642:LEU:HB2	1.94	0.49
1:A:1536:ASP:N	1:A:1602:PHE:HE1	2.09	0.49
1:B:628:TYR:HD1	1:B:628:TYR:C	2.20	0.49
1:B:1535:SER:HB3	1:B:1602:PHE:CD1	2.47	0.49
1:C:534:GLN:HA	1:C:610:GLU:O	2.12	0.49
1:C:961:ALA:CB	1:C:1022:LEU:HD12	2.36	0.49
1:E:744:VAL:HG12	1:E:746:PHE:CD1	2.47	0.49
1:E:988:VAL:HG12	1:E:990:LEU:HD23	1.95	0.49
1:E:1473:HIS:ND1	1:E:1473:HIS:C	2.70	0.49
1:F:1574:LEU:O	1:F:1578:LEU:HG	2.13	0.49
2:G:910:PHE:HD2	2:G:912:LYS:H	1.58	0.49
2:G:1316:VAL:HG13	2:G:1348:PHE:CE2	2.47	0.49
2:H:580:LEU:CD2	2:H:1095:ILE:HG22	2.43	0.49
2:H:580:LEU:HD11	2:H:1098:LEU:HB3	1.93	0.49
2:H:649:GLU:HG3	2:H:650:LYS:HG3	1.94	0.49
2:I:712:ARG:O	2:I:738:PRO:HG2	2.12	0.49
2:I:1048:TRP:NE1	2:I:1049:GLN:HG2	2.28	0.49
2:I:1492:LEU:HD22	2:I:1511:GLY:HA3	1.94	0.49
2:I:1770:ASN:HB2	2:I:1776:LYS:CE	2.34	0.49
2:I:1899:ALA:O	2:I:1903:VAL:HG23	2.12	0.49
2:J:276:LEU:HD12	2:J:298:ALA:O	2.12	0.49
2:J:1192:LEU:HD22	2:J:1196:PHE:CE1	2.48	0.49
2:J:1706:MET:HE1	2:J:1735:ILE:HG23	1.95	0.49
2:K:285:HIS:HD2	2:K:501:TRP:CE3	2.31	0.49
2:K:1138:ASP:HB2	2:K:1140:ASN:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:186:LEU:HD21	2:L:256:VAL:HG22	1.93	0.49
2:L:573:VAL:CG2	2:L:804:PRO:HB2	2.43	0.49
2:L:1933:LEU:O	2:L:1989:LEU:HD11	2.13	0.49
1:A:532:ILE:HG22	1:A:907:PHE:CG	2.48	0.49
1:A:1414:PRO:HG2	1:E:1473:HIS:CD2	2.48	0.49
1:A:1685:ALA:HB1	1:A:1686:PRO:CD	2.43	0.49
1:B:655:ALA:CB	1:B:742:TYR:HB2	2.43	0.49
1:B:918:LEU:O	1:B:921:GLU:HG3	2.12	0.49
1:C:415:TYR:CE2	1:C:1614:THR:HB	2.48	0.49
1:C:453:ASP:HB2	1:C:454:HIS:HD2	1.78	0.49
1:C:565:GLN:O	1:C:565:GLN:HG2	2.11	0.49
1:C:1446:GLU:HA	1:C:1449:ALA:HB3	1.93	0.49
1:C:1535:SER:HB3	1:C:1602:PHE:CD1	2.48	0.49
1:D:1004:PRO:HD3	1:D:1572:TRP:CH2	2.47	0.49
1:D:1213:VAL:HG13	1:D:1217:GLU:HB2	1.94	0.49
1:D:1535:SER:HB3	1:D:1602:PHE:CD1	2.48	0.49
1:E:427:ARG:HH21	1:E:518:LYS:HG2	1.77	0.49
1:E:689:ARG:HD2	1:E:1339:GLU:CG	2.42	0.49
1:E:871:PHE:N	1:E:871:PHE:CD1	2.81	0.49
1:E:991:ASP:HA	1:E:1364:THR:CG2	2.43	0.49
1:E:1052:ASP:HB3	1:E:1055:THR:HG23	1.95	0.49
1:F:59:ARG:HD2	2:L:1926:GLN:NE2	2.27	0.49
1:F:689:ARG:NH1	1:F:1339:GLU:OE2	2.45	0.49
1:F:883:LEU:N	1:F:883:LEU:HD23	2.26	0.49
1:F:905:LEU:HD22	1:F:911:LEU:CD2	2.42	0.49
1:F:973:TRP:CD1	1:F:1648:LYS:HD2	2.48	0.49
2:G:645:ILE:HD13	2:G:687:ILE:HD11	1.95	0.49
2:G:1142:ILE:HD11	2:G:1209:PRO:HB3	1.93	0.49
2:G:1227:LYS:HG2	2:G:1228:LEU:N	2.26	0.49
2:G:1324:PHE:CA	2:G:1583:VAL:HG11	2.43	0.49
2:G:1813:MET:HG3	2:G:1814:GLU:N	2.27	0.49
2:G:1904:VAL:HG22	2:G:1939:LEU:HD22	1.95	0.49
2:H:170:TYR:CD2	2:H:507:PHE:HB3	2.48	0.49
2:H:258:LEU:CD1	2:H:291:VAL:HG13	2.42	0.49
2:H:652:ILE:HG23	2:H:653:PRO:HD2	1.94	0.49
2:H:784:GLY:HA3	2:H:786:GLU:OE2	2.12	0.49
2:I:227:ILE:HD13	2:I:252:LEU:HD13	1.94	0.49
2:I:1516:GLU:HA	2:I:1521:GLU:O	2.13	0.49
2:I:1637:VAL:CG1	2:I:1679:LEU:HD22	2.43	0.49
2:J:24:LEU:CD1	2:J:45:ALA:HB1	2.42	0.49
2:J:190:TYR:CE1	2:J:201:ILE:HG21	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:573:VAL:CG2	2:J:804:PRO:HB2	2.42	0.49
2:J:613:VAL:N	2:J:614:PRO:HD3	2.28	0.49
2:J:712:ARG:O	2:J:738:PRO:HG2	2.12	0.49
2:J:792:LEU:O	2:J:792:LEU:HD12	2.12	0.49
2:J:1007:LEU:HD12	2:J:1007:LEU:N	2.25	0.49
2:K:138:ARG:HB3	2:K:192:THR:HG23	1.94	0.49
2:K:421:PHE:C	2:K:423:GLN:H	2.20	0.49
2:K:912:LYS:NZ	2:K:1044:LYS:O	2.44	0.49
2:L:621:THR:OG1	2:L:1083:ILE:HD13	2.13	0.49
2:L:792:LEU:O	2:L:792:LEU:HD12	2.13	0.49
2:L:1305:LEU:HD23	2:L:1366:ILE:CD1	2.41	0.49
1:A:997:THR:CB	1:A:1363:MET:HE2	2.43	0.49
1:A:1004:PRO:HD3	1:A:1572:TRP:CH2	2.48	0.49
1:A:1444:GLN:O	1:A:1447:VAL:HB	2.13	0.49
1:B:443:LEU:H	1:B:443:LEU:HD12	1.78	0.49
1:B:1378:ILE:HD11	1:B:1642:LEU:HB2	1.94	0.49
1:D:549:TYR:O	1:D:553:ARG:HB3	2.13	0.49
1:D:667:ALA:O	1:D:671:GLN:HG3	2.12	0.49
1:D:767:HIS:CB	1:D:813:LEU:HD12	2.43	0.49
1:E:43:ARG:HH11	2:K:1687:GLN:HE21	1.59	0.49
1:E:427:ARG:CG	1:E:427:ARG:NH1	2.50	0.49
1:E:533:SER:OG	1:E:611:THR:HB	2.13	0.49
1:E:1081:ILE:HA	1:E:1163:GLN:NE2	2.28	0.49
1:E:1504:ARG:NH2	1:E:1545:LEU:O	2.46	0.49
1:E:1670:HIS:ND1	2:K:1009:ASN:ND2	2.61	0.49
1:F:434:ILE:CD1	1:F:490:VAL:HG21	2.40	0.49
1:F:679:LYS:HG2	1:F:708:GLN:CB	2.39	0.49
1:F:961:ALA:CB	1:F:1022:LEU:HD12	2.27	0.49
1:F:1098:GLN:HB2	1:F:1152:LYS:HE2	1.94	0.49
2:G:190:TYR:HE1	2:G:201:ILE:HG21	1.76	0.49
2:G:607:GLY:HA2	2:G:612:THR:HG21	1.95	0.49
2:G:980:LEU:HD21	2:G:986:LEU:HD21	1.94	0.49
2:G:1807:GLN:HE22	2:G:1867:MET:HE2	1.76	0.49
2:H:320:LEU:O	2:H:324:GLN:HG3	2.13	0.49
2:H:910:PHE:HD2	2:H:912:LYS:H	1.60	0.49
2:H:916:GLY:HA2	2:H:929:MET:HE1	1.95	0.49
2:H:1160:PHE:CE1	2:H:1164:ILE:HD11	2.47	0.49
2:H:1359:LYS:N	2:H:1360:PRO:CD	2.76	0.49
2:H:1468:ARG:NH1	2:H:1468:ARG:CB	2.76	0.49
2:I:135:GLY:HA2	2:I:138:ARG:NH1	2.28	0.49
2:I:350:MET:HG3	2:I:435:ILE:CG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1093:ASP:O	2:I:1097:PHE:CD1	2.63	0.49
2:I:1146:LEU:O	2:I:1201:GLY:HA2	2.12	0.49
2:I:1248:GLU:OE1	2:I:1248:GLU:HA	2.13	0.49
2:I:1708:LEU:O	2:I:1708:LEU:HD22	2.13	0.49
2:J:220:GLN:NE2	2:J:324:GLN:HG2	2.28	0.49
2:J:227:ILE:HD13	2:J:252:LEU:HD13	1.93	0.49
2:J:603:VAL:HG22	2:J:810:CYS:SG	2.52	0.49
2:J:1372:LYS:O	2:J:1436:ARG:HG2	2.13	0.49
2:J:1626:GLU:O	2:J:1627:ASN:HB2	2.13	0.49
2:J:2073:ASN:O	2:J:2076:LYS:HB3	2.12	0.49
2:K:102:LEU:O	2:K:106:LEU:HG	2.12	0.49
2:K:910:PHE:O	2:K:1063:ARG:HD3	2.12	0.49
2:K:979:LEU:CD2	2:K:999:ALA:HB3	2.42	0.49
2:K:1061:VAL:HG11	2:K:1066:ILE:HD11	1.94	0.49
2:K:1709:TYR:CE2	2:K:1716:LYS:HG2	2.47	0.49
2:L:215:TRP:HE3	2:L:215:TRP:N	2.10	0.49
2:L:613:VAL:H	2:L:614:PRO:HD3	1.77	0.49
2:L:1305:LEU:HD23	2:L:1366:ILE:CG1	2.42	0.49
2:L:2052:LYS:HD3	2:L:2074:TRP:CE2	2.48	0.49
1:A:408:GLN:HE22	1:A:1609:SER:N	2.09	0.49
1:A:1019:LYS:HE3	1:A:1019:LYS:HB2	1.66	0.49
1:A:1020:PHE:CE2	1:A:1028:MET:HG3	2.47	0.49
1:B:1097:LEU:HD13	1:D:1149:LEU:HD12	1.95	0.49
1:C:921:GLU:HG3	1:C:922:ILE:H	1.78	0.49
1:C:995:VAL:HG13	1:C:1375:ILE:HG23	1.94	0.49
1:C:1068:TYR:O	1:C:1072:ILE:HG13	2.13	0.49
1:D:994:VAL:HG21	1:D:1291:TYR:CD1	2.47	0.49
1:E:628:TYR:C	1:E:628:TYR:CD1	2.90	0.49
1:E:859:VAL:HG22	1:E:918:LEU:HB3	1.94	0.49
1:E:957:THR:HG21	2:K:967:GLU:HB3	1.95	0.49
1:E:1672:GLY:HA3	1:E:1678:LEU:HD23	1.94	0.49
2:G:440:HIS:CD2	2:G:499:VAL:HG23	2.48	0.49
2:G:979:LEU:CD2	2:G:999:ALA:HB3	2.43	0.49
2:G:1259:LEU:HB2	2:G:1288:PHE:CD1	2.47	0.49
2:G:1464:LEU:HD11	2:G:1468:ARG:HD2	1.94	0.49
2:G:1932:ASP:OD2	2:G:1934:ARG:HD2	2.13	0.49
2:H:771:CYS:HB3	2:H:774:ILE:CD1	2.42	0.49
2:H:1007:LEU:HD12	2:H:1007:LEU:N	2.20	0.49
2:H:1622:THR:O	2:H:1626:GLU:HA	2.13	0.49
2:H:1868:GLN:HG2	2:H:1873:ARG:NH2	2.28	0.49
2:I:610:PRO:O	2:I:613:VAL:HG12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1175:MET:HA	2:I:1274:ILE:HD11	1.95	0.49
2:I:1179:GLU:CD	2:I:1179:GLU:N	2.62	0.49
2:I:1543:TYR:HD2	2:I:1544:LEU:HD23	1.77	0.49
2:J:928:ASP:C	2:J:1007:LEU:HD23	2.38	0.49
2:J:1099:LEU:HD12	2:J:1103:TYR:CB	2.42	0.49
2:J:1262:ARG:NH2	2:J:1277:VAL:HG11	2.28	0.49
2:K:38:PRO:CD	2:K:104:LEU:HD11	2.41	0.49
2:K:857:VAL:HG13	2:K:876:TRP:CD1	2.45	0.49
2:K:1229:VAL:HG12	2:K:1230:LYS:N	2.28	0.49
2:K:1515:LEU:HB3	2:K:1525:VAL:CG2	2.43	0.49
2:K:1887:ASN:ND2	2:K:1890:ARG:HG3	2.28	0.49
2:L:298:ALA:HB1	2:L:304:PHE:HA	1.95	0.49
2:L:962:PHE:O	2:L:965:ARG:HB3	2.13	0.49
2:L:1160:PHE:CE1	2:L:1164:ILE:HD11	2.48	0.49
2:L:1521:GLU:OE2	2:L:2028:THR:HG22	2.12	0.49
2:L:1678:VAL:O	2:L:1679:LEU:HD23	2.13	0.49
1:A:439:ARG:O	1:A:444:LEU:HD12	2.12	0.49
1:A:443:LEU:H	1:A:443:LEU:HD12	1.77	0.49
1:A:1327:ALA:HA	1:A:1340:MET:HE1	1.95	0.49
1:A:1565:PRO:CG	1:A:1572:TRP:CZ3	2.93	0.49
1:B:608:LYS:O	1:B:610:GLU:HG2	2.13	0.49
1:B:983:GLN:HB3	1:B:1418:ILE:CD1	2.39	0.49
1:C:409:ASP:CG	1:C:701:ARG:NH1	2.71	0.49
1:C:450:TYR:CE1	1:C:1551:ASN:HB2	2.47	0.49
1:C:871:PHE:CD1	1:C:871:PHE:N	2.80	0.49
1:C:1280:CYS:HA	1:C:1566:LYS:O	2.13	0.49
1:D:1280:CYS:HA	1:D:1566:LYS:O	2.13	0.49
1:E:754:ARG:HH21	1:E:762:LYS:HD3	1.78	0.49
1:E:811:ASP:OD1	1:E:811:ASP:N	2.44	0.49
1:F:1606:VAL:O	1:F:1608:PRO:HD3	2.12	0.49
1:F:1705:GLN:NE2	1:F:1709:GLY:HA2	2.28	0.49
2:G:580:LEU:CD2	2:G:1095:ILE:HG22	2.43	0.49
2:G:1709:TYR:CE2	2:G:1716:LYS:HG2	2.48	0.49
2:G:1820:ASP:O	2:G:1823:SER:HB3	2.13	0.49
2:H:80:ILE:HG12	2:H:105:ILE:HG22	1.95	0.49
2:H:279:PHE:HB2	2:H:467:ILE:HD12	1.95	0.49
2:H:474:THR:HB	2:H:476:GLN:HG2	1.94	0.49
2:H:506:VAL:HG22	2:H:506:VAL:O	2.12	0.49
2:H:676:LEU:HD23	2:H:679:ARG:HH21	1.77	0.49
2:H:1305:LEU:H	2:H:1305:LEU:CD1	2.24	0.49
2:I:73:VAL:HG13	2:I:113:PHE:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1593:SER:HG	2:I:1596:PHE:HB2	1.77	0.49
2:I:1621:GLU:OE2	2:I:1629:ILE:HG23	2.13	0.49
2:J:617:PHE:CE1	2:J:822:ALA:HB2	2.48	0.49
2:J:935:VAL:HG11	2:J:997:LEU:HD21	1.95	0.49
2:J:1189:THR:O	2:J:1191:PRO:HD3	2.13	0.49
2:J:1323:ASP:C	2:J:1583:VAL:HG11	2.38	0.49
2:J:1622:THR:O	2:J:1626:GLU:HA	2.13	0.49
2:K:649:GLU:HG3	2:K:650:LYS:HG3	1.94	0.49
2:K:1706:MET:HE1	2:K:1735:ILE:HG23	1.93	0.49
2:L:190:TYR:HE1	2:L:201:ILE:HG21	1.77	0.49
2:L:834:ASP:O	2:L:836:PRO:HD3	2.12	0.49
2:L:1103:TYR:O	2:L:1106:LYS:HB2	2.12	0.49
2:L:1229:VAL:HG12	2:L:1230:LYS:N	2.28	0.49
1:A:326:ASP:HB3	1:A:333:ARG:NH1	2.22	0.48
1:A:655:ALA:HB2	1:A:742:TYR:HB2	1.95	0.48
1:A:714:PHE:CE1	1:A:725:LEU:HD12	2.48	0.48
1:A:1067:LYS:HB3	1:A:1068:TYR:CD1	2.48	0.48
1:A:1108:PRO:HA	1:A:1140:VAL:O	2.12	0.48
1:B:1157:ASP:HB3	1:B:1326:ASN:OD1	2.13	0.48
1:B:1446:GLU:HA	1:B:1449:ALA:HB3	1.94	0.48
1:C:621:ASP:HB3	1:C:625:ASN:HB2	1.95	0.48
1:C:929:ARG:O	1:C:933:ILE:HG13	2.12	0.48
1:C:1603:ASP:HB2	1:C:1604:TYR:CD2	2.48	0.48
1:D:1490:GLY:O	1:D:1509:THR:HB	2.12	0.48
1:D:1560:TYR:CE2	1:D:1589:ASN:HA	2.48	0.48
1:D:1606:VAL:O	1:D:1608:PRO:HD3	2.13	0.48
1:D:1692:GLN:HG3	1:D:1696:PHE:CE2	2.47	0.48
1:E:1535:SER:HB3	1:E:1602:PHE:CD1	2.47	0.48
1:F:21:GLN:HE22	2:L:1841:TYR:HE1	1.61	0.48
1:F:565:GLN:O	1:F:565:GLN:HG2	2.11	0.48
1:F:956:ILE:HA	2:L:977:PRO:HA	1.95	0.48
2:G:665:VAL:HG12	2:G:665:VAL:O	2.13	0.48
2:G:703:ASN:O	2:G:707:GLN:HG3	2.13	0.48
2:G:1249:GLY:HA2	2:G:1256:VAL:HG22	1.95	0.48
2:G:1372:LYS:O	2:G:1436:ARG:HG2	2.13	0.48
2:G:1515:LEU:HB3	2:G:1525:VAL:CG2	2.43	0.48
2:G:1874:ASP:OD1	2:G:1878:ARG:HB3	2.13	0.48
2:G:2052:LYS:HE2	2:G:2052:LYS:N	2.07	0.48
2:H:485:ASP:HB2	2:H:488:PRO:HD2	1.93	0.48
2:H:676:LEU:HD23	2:H:679:ARG:NH2	2.28	0.48
2:H:712:ARG:O	2:H:738:PRO:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1137:ARG:HB3	2:H:1142:ILE:HG23	1.94	0.48
2:H:1672:LYS:HG2	2:H:1672:LYS:O	2.13	0.48
2:H:1804:GLN:HG2	2:H:1865:LEU:CD2	2.43	0.48
2:H:1910:VAL:CG1	2:H:1973:ILE:HG21	2.42	0.48
2:I:356:LEU:HD23	2:I:356:LEU:HA	1.66	0.48
2:I:784:GLY:HA3	2:I:786:GLU:OE2	2.13	0.48
2:I:1468:ARG:NH1	2:I:1468:ARG:CB	2.74	0.48
2:I:1802:ALA:CB	2:I:1804:GLN:HE22	2.19	0.48
2:I:1820:ASP:O	2:I:1823:SER:HB3	2.13	0.48
2:J:60:THR:HG22	2:J:62:GLU:H	1.78	0.48
2:J:376:ARG:NH2	2:K:1339:GLY:HA2	2.27	0.48
2:J:662:LEU:HD22	2:J:673:GLN:OE1	2.13	0.48
2:J:1315:ILE:HA	2:J:1393:ASP:O	2.13	0.48
2:J:2044:THR:HG21	2:J:2054:TYR:OH	2.12	0.48
2:K:119:VAL:HG21	2:K:140:TYR:CD2	2.48	0.48
2:K:712:ARG:O	2:K:738:PRO:HG2	2.13	0.48
2:K:1404:VAL:CG2	2:K:1413:VAL:HG22	2.38	0.48
2:K:1874:ASP:OD1	2:K:1878:ARG:HB3	2.13	0.48
2:L:635:TYR:CB	2:L:641:MET:HG3	2.42	0.48
2:L:699:ILE:H	2:L:699:ILE:CD1	2.26	0.48
2:L:1749:PHE:CG	2:L:1758:ARG:HB3	2.48	0.48
1:A:22:PHE:O	2:G:2006:HIS:HA	2.12	0.48
1:B:81:TYR:HE1	2:H:1821:MET:HE3	1.75	0.48
1:B:1020:PHE:CE2	1:B:1028:MET:HG3	2.48	0.48
1:B:1685:ALA:HB1	1:B:1686:PRO:CD	2.43	0.48
1:C:756:ILE:HA	1:C:759:ILE:HD11	1.94	0.48
1:C:1524:GLY:HA2	1:C:1531:ASP:OD1	2.13	0.48
1:D:1001:GLU:HG2	1:D:1008:ALA:HB2	1.93	0.48
1:D:1303:LEU:HD23	1:D:1361:VAL:HB	1.94	0.48
1:E:453:ASP:HB2	1:E:454:HIS:HD2	1.78	0.48
1:E:1586:VAL:CG2	1:E:1617:ILE:HD11	2.43	0.48
1:F:23:ALA:HA	2:L:2007:SER:O	2.13	0.48
1:F:26:VAL:HG21	2:L:2006:HIS:CE1	2.48	0.48
1:F:767:HIS:CB	1:F:813:LEU:HD12	2.43	0.48
2:G:485:ASP:CB	2:G:488:PRO:CD	2.90	0.48
2:G:1445:THR:HG23	2:G:1498:PHE:HB2	1.95	0.48
2:G:1799:LEU:C	2:G:1801:SER:H	2.21	0.48
2:H:80:ILE:HG12	2:H:105:ILE:CG2	2.43	0.48
2:H:455:VAL:O	2:H:455:VAL:HG12	2.13	0.48
2:H:1141:LYS:HE2	2:H:1143:SER:HB2	1.95	0.48
2:H:1442:TYR:O	2:H:1445:THR:HG22	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1504:TYR:HD2	2:H:1507:VAL:HG11	1.78	0.48
2:H:1694:PHE:CD2	2:H:1843:ALA:CA	2.96	0.48
2:H:1762:MET:HG2	2:H:1779:LYS:HZ1	1.78	0.48
2:H:1918:VAL:HG13	2:H:2006:HIS:CB	2.39	0.48
2:I:962:PHE:O	2:I:965:ARG:HB3	2.13	0.48
2:I:1115:TYR:OH	2:I:1173:HIS:CD2	2.62	0.48
2:I:1442:TYR:CA	2:I:1445:THR:HG22	2.43	0.48
2:J:480:GLU:HG2	2:J:480:GLU:O	2.13	0.48
2:J:501:TRP:HZ2	2:J:528:THR:HG21	1.77	0.48
2:J:746:GLY:HA3	2:J:843:TRP:CZ2	2.49	0.48
2:J:1017:LEU:O	2:J:1021:GLN:HG3	2.12	0.48
2:K:117:ASN:HA	2:K:561:ARG:HD2	1.95	0.48
2:K:189:ILE:HD12	2:K:256:VAL:HG13	1.94	0.48
2:K:796:TRP:HZ2	2:K:805:MET:HE2	1.77	0.48
2:K:1156:ASP:CB	2:K:1159:SER:H	2.19	0.48
2:K:1350:ILE:O	2:K:1354:TRP:HB2	2.12	0.48
2:K:1483:LEU:HD21	2:K:1525:VAL:HG11	1.95	0.48
2:K:1762:MET:HG2	2:K:1779:LYS:NZ	2.27	0.48
2:K:2052:LYS:HD3	2:K:2074:TRP:CE2	2.47	0.48
2:L:579:ARG:HB2	2:L:591:ASP:HB3	1.95	0.48
2:L:610:PRO:O	2:L:613:VAL:HG12	2.13	0.48
2:L:1067:LEU:HD12	2:L:1067:LEU:H	1.78	0.48
2:L:1762:MET:HG2	2:L:1779:LYS:HZ1	1.78	0.48
2:L:1820:ASP:O	2:L:1823:SER:HB3	2.13	0.48
2:L:1874:ASP:OD1	2:L:1878:ARG:HB3	2.12	0.48
1:C:26:VAL:CG2	2:I:2006:HIS:CE1	2.97	0.48
1:C:543:ASN:O	1:C:546:ARG:HB2	2.13	0.48
1:C:872:SER:OG	1:C:874:GLN:HG3	2.14	0.48
1:C:1386:THR:HG22	1:C:1387:ASP:N	2.28	0.48
1:D:340:LEU:HD22	1:D:351:LEU:HD11	1.95	0.48
1:D:444:LEU:HD22	1:D:448:MET:HG2	1.94	0.48
1:F:1278:GLY:CA	1:F:1630:LYS:HE2	2.42	0.48
1:F:1294:ILE:HD11	1:F:1302:CYS:HB3	1.96	0.48
1:F:1512:LEU:HD21	1:F:1641:TYR:CE2	2.49	0.48
2:G:258:LEU:CD1	2:G:291:VAL:HG13	2.43	0.48
2:G:468:PRO:HD3	2:G:479:ARG:HH21	1.76	0.48
2:G:603:VAL:HG22	2:G:810:CYS:SG	2.52	0.48
2:G:1266:HIS:CE1	2:G:1275:ARG:CD	2.90	0.48
2:H:613:VAL:CG1	2:H:614:PRO:HD3	2.44	0.48
2:H:835:ALA:HB3	2:H:1073:ALA:HB1	1.95	0.48
2:H:1249:GLY:HA2	2:H:1256:VAL:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1483:LEU:HD21	2:H:1525:VAL:HG11	1.96	0.48
2:H:1770:ASN:HB2	2:H:1776:LYS:CE	2.36	0.48
2:I:460:ILE:HD13	2:I:487:ILE:HD11	1.94	0.48
2:I:1229:VAL:HG12	2:I:1230:LYS:N	2.29	0.48
2:J:731:ALA:HA	2:J:739:ILE:HD12	1.95	0.48
2:J:1250:ARG:CD	2:J:1250:ARG:H	2.26	0.48
2:J:1451:GLU:HG3	2:J:1541:ILE:HD11	1.95	0.48
2:K:580:LEU:CD2	2:K:1095:ILE:HG22	2.42	0.48
2:K:690:LEU:HD22	2:K:691:THR:H	1.78	0.48
2:K:1227:LYS:HG2	2:K:1228:LEU:N	2.27	0.48
2:L:613:VAL:CG1	2:L:614:PRO:HD3	2.42	0.48
2:L:1587:TYR:O	2:L:1588:ASN:C	2.55	0.48
2:L:2062:THR:HG22	2:L:2063:GLY:N	2.29	0.48
1:A:414:TYR:C	1:A:414:TYR:CD2	2.91	0.48
1:B:1149:LEU:HB2	1:D:1149:LEU:CB	2.43	0.48
1:B:1592:ALA:O	1:B:1593:ASP:C	2.55	0.48
1:C:1078:ILE:HB	1:C:1338:GLY:HA3	1.95	0.48
1:C:1303:LEU:HD23	1:C:1361:VAL:HB	1.96	0.48
1:D:453:ASP:HB2	1:D:454:HIS:HD2	1.77	0.48
1:D:1108:PRO:HA	1:D:1140:VAL:O	2.12	0.48
1:D:1504:ARG:NH2	1:D:1545:LEU:O	2.46	0.48
1:F:335:LEU:HD12	1:F:335:LEU:O	2.14	0.48
1:F:414:TYR:C	1:F:414:TYR:CD2	2.90	0.48
1:F:827:ARG:NH1	1:F:831:GLU:OE2	2.46	0.48
2:G:190:TYR:CE1	2:G:201:ILE:HG21	2.48	0.48
2:H:289:ILE:HG21	2:H:493:MET:HE1	1.95	0.48
2:H:662:LEU:HD22	2:H:673:GLN:OE1	2.13	0.48
2:H:783:GLY:HA2	2:H:815:ARG:HD3	1.95	0.48
2:H:1587:TYR:O	2:H:1588:ASN:C	2.56	0.48
2:H:1706:MET:HE1	2:H:1735:ILE:HG23	1.93	0.48
2:H:1899:ALA:O	2:H:1903:VAL:HG23	2.13	0.48
2:H:2062:THR:HG22	2:H:2063:GLY:N	2.29	0.48
2:I:186:LEU:CD2	2:I:256:VAL:HG22	2.43	0.48
2:I:276:LEU:HD12	2:I:298:ALA:O	2.12	0.48
2:I:382:LEU:HB3	2:I:499:VAL:HB	1.95	0.48
2:I:662:LEU:HD22	2:I:673:GLN:OE1	2.13	0.48
2:I:1694:PHE:CD2	2:I:1843:ALA:CA	2.94	0.48
2:J:120:HIS:CD2	2:J:137:VAL:CG1	2.97	0.48
2:J:134:ILE:HG12	2:J:545:ILE:CD1	2.43	0.48
2:J:1468:ARG:NH1	2:J:1468:ARG:CB	2.75	0.48
2:K:875:PHE:HE2	2:K:906:LEU:CD2	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1904:VAL:HG22	2:K:1939:LEU:HD22	1.95	0.48
2:L:193:TYR:O	2:L:197:VAL:HG23	2.13	0.48
2:L:741:LEU:HG	2:L:741:LEU:O	2.13	0.48
2:L:1141:LYS:CE	2:L:1143:SER:HB2	2.44	0.48
2:L:1471:GLU:H	2:L:1471:GLU:HG3	1.44	0.48
2:L:1868:GLN:HG2	2:L:1873:ARG:HH22	1.78	0.48
1:A:558:LEU:HB2	1:A:563:GLN:CG	2.41	0.48
1:A:788:ARG:HB2	1:A:790:TYR:CD2	2.47	0.48
1:A:1493:PHE:HE2	1:A:1509:THR:HG22	1.77	0.48
1:B:339:GLN:O	1:B:343:ILE:HG13	2.13	0.48
1:B:409:ASP:CG	1:B:701:ARG:NH1	2.72	0.48
1:B:743:VAL:O	1:B:745:PRO:HD3	2.14	0.48
1:B:833:TRP:CH2	1:B:839:ILE:HD11	2.45	0.48
1:B:1079:ARG:CG	1:B:1079:ARG:NH1	2.69	0.48
1:C:573:VAL:O	1:C:577:LEU:HG	2.13	0.48
1:C:621:ASP:HB3	1:C:625:ASN:H	1.78	0.48
1:C:1157:ASP:O	1:C:1159:LEU:HD12	2.13	0.48
1:C:1493:PHE:HE2	1:C:1509:THR:HG22	1.77	0.48
1:D:718:SER:HB3	1:D:721:ASP:HB2	1.96	0.48
1:E:427:ARG:NH1	1:E:492:ILE:CG1	2.76	0.48
1:E:524:LYS:O	1:E:527:ALA:N	2.47	0.48
1:E:948:HIS:O	1:E:952:TYR:HD2	1.97	0.48
1:E:1273:ILE:O	1:E:1273:ILE:HG13	2.13	0.48
1:E:1603:ASP:HB2	1:E:1604:TYR:CD2	2.48	0.48
1:F:406:ALA:CA	1:F:439:ARG:HH11	2.25	0.48
1:F:435:GLN:HG2	1:F:701:ARG:O	2.13	0.48
1:F:811:ASP:OD1	1:F:811:ASP:N	2.47	0.48
1:F:1001:GLU:O	1:F:1002:ILE:HD12	2.13	0.48
1:F:1179:ILE:O	1:F:1183:VAL:HG23	2.13	0.48
1:F:1280:CYS:HA	1:F:1566:LYS:O	2.14	0.48
2:G:220:GLN:NE2	2:G:324:GLN:HG2	2.28	0.48
2:G:376:ARG:HH21	2:H:1339:GLY:HA2	1.78	0.48
2:G:1017:LEU:O	2:G:1021:GLN:HG3	2.14	0.48
2:G:1266:HIS:HE1	2:G:1275:ARG:CD	2.17	0.48
2:G:1316:VAL:HG13	2:G:1348:PHE:HE2	1.78	0.48
2:G:1371:LEU:HG	2:G:1600:ALA:HB2	1.95	0.48
2:H:378:ILE:HG23	2:H:391:VAL:HG13	1.96	0.48
2:H:416:GLN:HA	2:H:419:ILE:HG13	1.94	0.48
2:H:911:GLN:HE21	2:H:1065:CYS:H	1.59	0.48
2:H:1820:ASP:O	2:H:1823:SER:HB3	2.13	0.48
2:I:102:LEU:O	2:I:106:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:314:LEU:HG	2:I:318:ILE:HD11	1.95	0.48
2:I:416:GLN:HA	2:I:419:ILE:HG13	1.96	0.48
2:I:665:VAL:O	2:I:665:VAL:HG12	2.13	0.48
2:I:699:ILE:HD12	2:I:699:ILE:N	2.28	0.48
2:I:1115:TYR:HB3	2:I:1267:PRO:HB3	1.96	0.48
2:I:1251:THR:HG22	2:I:1292:VAL:HG13	1.95	0.48
2:I:1722:ALA:HB2	2:I:1812:LEU:HD11	1.95	0.48
2:J:108:GLU:HA	2:J:111:ARG:HD2	1.94	0.48
2:J:872:GLY:HA2	2:J:909:ASP:O	2.14	0.48
2:J:1141:LYS:HE2	2:J:1143:SER:HB2	1.94	0.48
2:J:1259:LEU:HB2	2:J:1288:PHE:CD1	2.49	0.48
2:J:1873:ARG:NH1	2:J:2002:ASP:HB3	2.28	0.48
2:K:211:LEU:HB3	2:K:316:PHE:CZ	2.49	0.48
2:K:1141:LYS:CE	2:K:1143:SER:HB2	2.43	0.48
2:L:930:THR:HG23	2:L:933:GLU:H	1.76	0.48
2:L:1636:HIS:O	2:L:1681:GLY:HA3	2.14	0.48
1:B:541:VAL:HG22	1:E:576:ALA:HB3	1.95	0.48
1:C:398:VAL:HG22	1:C:710:VAL:HG22	1.96	0.48
1:C:628:TYR:CD1	1:C:628:TYR:C	2.91	0.48
1:C:755:GLU:HB2	1:C:757:ASP:HB2	1.96	0.48
1:C:902:ASN:O	1:C:904:GLY:N	2.44	0.48
1:C:1268:SER:CB	1:F:1389:ILE:HG13	2.10	0.48
1:D:574:ILE:HG23	1:D:579:MET:HB2	1.95	0.48
1:D:811:ASP:OD1	1:D:811:ASP:N	2.46	0.48
1:E:767:HIS:CG	1:E:813:LEU:HD12	2.48	0.48
1:E:1534:GLU:HG2	1:E:1625:PHE:HE1	1.79	0.48
1:F:636:TYR:HB2	1:F:888:ILE:HD11	1.94	0.48
1:F:902:ASN:C	1:F:904:GLY:H	2.21	0.48
2:G:101:VAL:O	2:G:105:ILE:HG12	2.12	0.48
2:G:356:LEU:HB3	2:G:361:VAL:HG23	1.95	0.48
2:G:401:LEU:HD22	2:G:405:LEU:HG	1.95	0.48
2:G:487:ILE:HB	2:G:488:PRO:CD	2.39	0.48
2:G:1286:LYS:NZ	2:G:1367:ASP:HA	2.29	0.48
2:H:170:TYR:CE1	2:H:510:ALA:HB2	2.49	0.48
2:H:467:ILE:CG2	2:H:468:PRO:HD2	2.39	0.48
2:H:1048:TRP:CD1	2:H:1049:GLN:HG2	2.48	0.48
2:H:1048:TRP:NE1	2:H:1049:GLN:HG2	2.28	0.48
2:H:1371:LEU:O	2:H:1590:ILE:HD11	2.13	0.48
2:H:1813:MET:HG3	2:H:1814:GLU:N	2.29	0.48
2:H:1874:ASP:OD1	2:H:1878:ARG:HB3	2.12	0.48
2:I:156:SER:HB3	2:I:558:LEU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:298:ALA:HB1	2:I:304:PHE:HA	1.94	0.48
2:I:521:VAL:O	2:I:526:VAL:HG21	2.13	0.48
2:I:821:GLU:H	2:I:821:GLU:HG2	1.43	0.48
2:I:888:ARG:HD3	2:I:891:ARG:NH1	2.28	0.48
2:I:1048:TRP:CE2	2:I:1049:GLN:HG2	2.48	0.48
2:J:298:ALA:HB2	2:J:304:PHE:HA	1.95	0.48
2:J:665:VAL:O	2:J:665:VAL:HG12	2.14	0.48
2:J:1160:PHE:CE1	2:J:1164:ILE:HD11	2.48	0.48
2:J:1175:MET:HA	2:J:1274:ILE:HD11	1.96	0.48
2:J:1404:VAL:CG2	2:J:1413:VAL:HG22	2.37	0.48
2:K:167:VAL:HG23	2:K:169:ILE:HG13	1.96	0.48
2:K:1464:LEU:HD11	2:K:1468:ARG:HD2	1.95	0.48
2:K:1910:VAL:CG1	2:K:1973:ILE:HG21	2.43	0.48
2:L:220:GLN:NE2	2:L:324:GLN:HG2	2.28	0.48
2:L:480:GLU:HG2	2:L:480:GLU:O	2.13	0.48
2:L:590:VAL:CG2	2:L:1091:HIS:CD2	2.97	0.48
2:L:1265:TYR:CE2	2:L:1267:PRO:HG3	2.49	0.48
2:L:1372:LYS:O	2:L:1436:ARG:HG2	2.14	0.48
2:L:1451:GLU:HG3	2:L:1541:ILE:HD11	1.95	0.48
2:L:1650:THR:O	2:L:1669:ALA:HA	2.13	0.48
1:A:40:ARG:HH21	1:A:74:VAL:CG2	2.20	0.48
1:A:458:GLU:CD	1:A:458:GLU:H	2.21	0.48
1:A:716:GLN:HB3	1:A:769:ILE:HG23	1.94	0.48
1:A:874:GLN:H	1:A:874:GLN:HG2	1.39	0.48
1:B:1050:TRP:CE3	1:B:1050:TRP:HA	2.49	0.48
1:B:1108:PRO:HA	1:B:1140:VAL:O	2.13	0.48
1:B:1150:ILE:HG12	1:D:1148:LEU:CD2	2.44	0.48
1:C:843:VAL:O	1:C:843:VAL:HG22	2.13	0.48
1:C:869:ARG:O	1:C:903:GLY:HA3	2.13	0.48
1:C:1037:ASN:CG	1:C:1674:ILE:HG23	2.38	0.48
1:C:1386:THR:HG22	1:C:1387:ASP:H	1.79	0.48
1:D:1672:GLY:HA3	1:D:1678:LEU:HD23	1.96	0.48
1:D:1685:ALA:HB1	1:D:1686:PRO:CD	2.44	0.48
1:E:694:TYR:HD2	1:E:695:TYR:CD1	2.32	0.48
1:E:843:VAL:O	1:E:843:VAL:HG22	2.12	0.48
1:E:950:ALA:HA	1:E:953:ARG:CZ	2.43	0.48
1:E:1081:ILE:HG13	1:E:1159:LEU:O	2.14	0.48
1:F:537:ASN:O	1:F:541:VAL:HG23	2.14	0.48
2:G:92:GLU:C	2:G:94:ALA:H	2.22	0.48
2:G:608:MET:HE1	2:G:817:MET:HG2	1.95	0.48
2:G:617:PHE:CD1	2:G:822:ALA:HA	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1160:PHE:O	2:G:1164:ILE:HG13	2.14	0.48
2:G:1802:ALA:CB	2:G:1804:GLN:HE22	2.19	0.48
2:H:92:GLU:C	2:H:94:ALA:H	2.21	0.48
2:H:271:GLU:HG2	2:H:301:TRP:NE1	2.29	0.48
2:H:452:LEU:HD21	2:H:488:PRO:HA	1.96	0.48
2:H:460:ILE:HD13	2:H:487:ILE:HD11	1.95	0.48
2:H:485:ASP:CB	2:H:488:PRO:CD	2.87	0.48
2:H:1723:ASP:OD1	2:H:1735:ILE:HG13	2.14	0.48
2:I:1156:ASP:HB2	2:I:1159:SER:N	2.19	0.48
2:I:1483:LEU:CD2	2:I:1525:VAL:HG11	2.44	0.48
2:J:73:VAL:HG13	2:J:113:PHE:HD2	1.77	0.48
2:J:170:TYR:CE2	2:J:507:PHE:HB3	2.48	0.48
2:J:246:ALA:HB3	2:J:247:PRO:HD3	1.95	0.48
2:J:1285:ILE:O	2:J:1288:PHE:HB3	2.13	0.48
2:J:2050:ILE:O	2:J:2050:ILE:HG12	2.13	0.48
2:K:615:TRP:HA	2:K:618:VAL:CG1	2.43	0.48
2:K:765:TYR:CD1	2:K:805:MET:HE3	2.49	0.48
2:L:24:LEU:CD1	2:L:45:ALA:HB1	2.43	0.48
2:L:208:LEU:HD12	2:L:227:ILE:HD11	1.96	0.48
2:L:460:ILE:HD13	2:L:487:ILE:HD11	1.96	0.48
2:L:467:ILE:CG2	2:L:468:PRO:HD2	2.43	0.48
2:L:1220:ARG:HA	2:L:1229:VAL:O	2.13	0.48
2:L:1456:LEU:HD23	2:L:1457:HIS:N	2.28	0.48
2:L:1871:VAL:HG23	2:L:2003:VAL:HG13	1.96	0.48
1:A:421:ARG:NH2	1:A:1613:LYS:HB3	2.28	0.48
1:A:767:HIS:CG	1:A:813:LEU:HD12	2.49	0.48
1:A:1055:THR:OG1	1:A:1057:GLU:HG2	2.14	0.48
1:A:1212:TYR:CD2	1:A:1371:MET:HG2	2.49	0.48
1:B:1574:LEU:O	1:B:1578:LEU:HG	2.14	0.48
1:C:754:ARG:HH21	1:C:762:LYS:HD3	1.78	0.48
1:C:1580:VAL:HG22	1:C:1585:ILE:O	2.13	0.48
1:D:869:ARG:O	1:D:903:GLY:HA3	2.14	0.48
1:D:1160:VAL:HG23	1:D:1327:ALA:HB2	1.94	0.48
1:E:628:TYR:HD1	1:E:628:TYR:C	2.21	0.48
1:E:956:ILE:HA	2:K:977:PRO:HA	1.95	0.48
1:E:996:VAL:HG11	1:E:1578:LEU:HD11	1.96	0.48
1:F:36:LEU:CD2	1:F:44:ILE:HD11	2.41	0.48
1:F:628:TYR:HD1	1:F:628:TYR:C	2.21	0.48
1:F:1164:ILE:CD1	1:F:1355:GLN:HG3	2.44	0.48
2:G:170:TYR:CE2	2:G:507:PHE:HB3	2.48	0.48
2:G:421:PHE:C	2:G:423:GLN:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:690:LEU:HD22	2:G:691:THR:H	1.79	0.48
2:G:1099:LEU:HD12	2:G:1103:TYR:HB2	1.95	0.48
2:G:1179:GLU:CD	2:G:1179:GLU:N	2.70	0.48
2:G:1475:LEU:HD23	2:G:1476:ASP:N	2.27	0.48
2:G:1896:THR:CG2	2:G:1897:GLU:N	2.76	0.48
2:G:1977:ARG:HD2	2:G:1978:LYS:HE3	1.96	0.48
2:H:1661:GLY:HA3	2:H:1827:VAL:O	2.14	0.48
2:H:1972:ILE:H	2:H:1972:ILE:HG13	1.38	0.48
2:J:485:ASP:CB	2:J:488:PRO:CD	2.90	0.48
2:J:485:ASP:HB2	2:J:488:PRO:HD2	1.95	0.48
2:K:474:THR:HB	2:K:476:GLN:HG2	1.96	0.48
2:K:674:ILE:HD13	2:K:705:TYR:HE2	1.74	0.48
2:K:783:GLY:HA2	2:K:815:ARG:HD3	1.96	0.48
2:K:938:MET:CE	2:K:959:THR:HA	2.44	0.48
2:K:942:MET:O	2:K:951:ILE:HG13	2.13	0.48
2:L:356:LEU:HB3	2:L:361:VAL:HG23	1.95	0.48
2:L:455:VAL:O	2:L:455:VAL:HG12	2.14	0.48
2:L:884:PHE:CE2	2:L:1039:GLU:HA	2.47	0.48
2:L:1299:VAL:CG2	2:L:1301:PHE:CE2	2.90	0.48
2:L:1464:LEU:C	2:L:1464:LEU:HD13	2.37	0.48
1:A:617:LEU:HD23	1:A:617:LEU:N	2.29	0.48
1:A:988:VAL:HG12	1:A:990:LEU:HD23	1.95	0.48
1:B:47:ILE:HB	2:H:1694:PHE:HD1	1.78	0.48
1:B:1365:ALA:O	1:B:1368:ALA:HB3	2.13	0.48
1:B:1389:ILE:HG13	1:D:1268:SER:CB	2.13	0.48
1:B:1390:GLY:O	1:D:1264:MET:HB3	2.14	0.48
1:C:88:ILE:CG2	2:I:1821:MET:HE2	2.36	0.48
1:C:427:ARG:NH1	1:C:492:ILE:HG13	2.29	0.48
1:C:998:GLY:HA3	1:C:1361:VAL:CG1	2.41	0.48
1:C:1270:THR:HG21	1:F:1402:THR:CG2	2.44	0.48
1:D:902:ASN:C	1:D:904:GLY:H	2.22	0.48
1:D:1055:THR:C	1:D:1057:GLU:H	2.22	0.48
1:D:1067:LYS:HB3	1:D:1068:TYR:CD1	2.48	0.48
1:D:1249:ILE:HD12	1:D:1250:LEU:N	2.28	0.48
1:D:1610:ARG:HH11	1:D:1610:ARG:CG	1.94	0.48
1:E:444:LEU:HD22	1:E:448:MET:CG	2.44	0.48
1:E:655:ALA:CB	1:E:742:TYR:HB2	2.43	0.48
1:E:943:VAL:HG23	2:K:1539:PRO:HG3	1.96	0.48
1:E:1098:GLN:HB2	1:E:1152:LYS:HE2	1.94	0.48
1:E:1638:HIS:CG	1:E:1639:PRO:HD2	2.49	0.48
1:E:1685:ALA:HB1	1:E:1686:PRO:CD	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:613:PRO:HD2	1:F:628:TYR:CE2	2.49	0.48
1:F:768:ARG:HA	1:F:772:THR:OG1	2.14	0.48
1:F:942:VAL:O	2:L:1536:HIS:HB2	2.13	0.48
1:F:987:MET:O	1:F:1490:GLY:HA3	2.14	0.48
1:F:988:VAL:HG12	1:F:990:LEU:HD23	1.95	0.48
1:F:1160:VAL:HG23	1:F:1327:ALA:HB2	1.95	0.48
2:G:268:LEU:HD12	2:G:275:LEU:CD1	2.44	0.48
2:G:579:ARG:HB2	2:G:591:ASP:HB3	1.96	0.48
2:G:676:LEU:HD23	2:G:679:ARG:HH21	1.78	0.48
2:G:895:LEU:HD13	2:G:1034:LEU:HB3	1.96	0.48
2:G:1402:ASN:O	2:G:1403:ALA:HB2	2.14	0.48
2:G:1896:THR:HG22	2:G:1898:GLN:N	2.17	0.48
2:H:35:PHE:CE1	2:H:105:ILE:HD13	2.49	0.48
2:H:190:TYR:CE1	2:H:201:ILE:HG21	2.48	0.48
2:H:787:ASP:O	2:H:790:PRO:HD2	2.13	0.48
2:H:1404:VAL:CG2	2:H:1413:VAL:HG22	2.38	0.48
2:H:1492:LEU:HD22	2:H:1511:GLY:HA3	1.95	0.48
2:H:2073:ASN:O	2:H:2076:LYS:HB3	2.13	0.48
2:I:129:ILE:HG12	2:I:131:ALA:HB3	1.96	0.48
2:I:350:MET:HG3	2:I:435:ILE:HB	1.96	0.48
2:I:930:THR:HG22	2:I:933:GLU:HG3	1.96	0.48
2:I:1048:TRP:CD1	2:I:1049:GLN:HG2	2.49	0.48
2:I:1175:MET:HE2	2:I:1234:ILE:HG21	1.95	0.48
2:J:73:VAL:HA	2:J:113:PHE:HE2	1.78	0.48
2:J:215:TRP:CE3	2:J:215:TRP:N	2.82	0.48
2:J:699:ILE:HD12	2:J:699:ILE:H	1.79	0.48
2:J:723:ALA:O	2:J:726:GLN:HB2	2.13	0.48
2:J:884:PHE:CE2	2:J:1039:GLU:HA	2.47	0.48
2:J:1348:PHE:CE1	2:J:1351:VAL:HG11	2.49	0.48
2:J:1820:ASP:O	2:J:1823:SER:HB3	2.14	0.48
2:K:205:ALA:O	2:K:209:GLN:HG3	2.14	0.48
2:K:835:ALA:HB3	2:K:1073:ALA:HB1	1.95	0.48
2:K:942:MET:HE2	2:K:955:LEU:CB	2.36	0.48
2:K:1504:TYR:HD2	2:K:1507:VAL:HG11	1.79	0.48
2:K:1621:GLU:OE2	2:K:1629:ILE:HG23	2.13	0.48
2:L:411:PRO:HD2	2:L:414:LEU:HD11	1.95	0.48
2:L:781:GLY:HA2	2:L:1071:VAL:CG1	2.39	0.48
2:L:1115:TYR:HB3	2:L:1267:PRO:CA	2.44	0.48
2:L:1359:LYS:N	2:L:1360:PRO:CD	2.77	0.48
2:L:1483:LEU:HD21	2:L:1525:VAL:HG11	1.95	0.48
2:L:1617:ARG:HB2	2:L:1635:TYR:CZ	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1764:MET:HG3	2:L:1781:PHE:HE1	1.78	0.48
1:A:689:ARG:NH2	1:A:1591:ASN:HD21	2.12	0.48
1:A:871:PHE:N	1:A:871:PHE:CD1	2.80	0.48
1:B:28:TRP:CZ2	1:B:53:LEU:HD22	2.49	0.48
1:B:756:ILE:HA	1:B:759:ILE:HD11	1.96	0.48
1:B:967:PHE:CD2	1:B:1374:PRO:HG3	2.49	0.48
1:B:1564:HIS:C	1:B:1564:HIS:ND1	2.72	0.48
1:C:767:HIS:CB	1:C:813:LEU:HD12	2.43	0.48
1:C:900:ASP:C	1:C:901:LEU:HD23	2.39	0.48
1:D:1544:HIS:CG	1:D:1544:HIS:O	2.67	0.48
1:E:743:VAL:O	1:E:745:PRO:HD3	2.14	0.48
1:E:1160:VAL:HG23	1:E:1327:ALA:HB2	1.96	0.48
1:E:1303:LEU:HD23	1:E:1361:VAL:HB	1.96	0.48
1:E:1338:GLY:H	1:E:1340:MET:HG3	1.79	0.48
1:F:628:TYR:C	1:F:628:TYR:CD1	2.89	0.48
1:F:850:THR:C	1:F:852:LEU:H	2.22	0.48
1:F:1344:THR:HG22	1:F:1599:MET:HE3	1.96	0.48
1:F:1574:LEU:CD1	1:F:1622:VAL:HG11	2.43	0.48
2:G:1403:ALA:HB2	2:G:1447:GLN:HA	1.96	0.48
2:G:1468:ARG:NH1	2:G:1468:ARG:CB	2.75	0.48
2:G:1694:PHE:CD2	2:G:1843:ALA:CA	2.96	0.48
2:H:73:VAL:HG13	2:H:113:PHE:HD2	1.78	0.48
2:H:106:LEU:HD11	2:H:143:GLY:O	2.14	0.48
2:H:314:LEU:HG	2:H:318:ILE:HD11	1.95	0.48
2:H:501:TRP:CZ2	2:H:528:THR:HG21	2.49	0.48
2:H:1103:TYR:O	2:H:1106:LYS:HB2	2.14	0.48
2:I:271:GLU:HG2	2:I:301:TRP:NE1	2.29	0.48
2:I:1451:GLU:HG3	2:I:1541:ILE:HD11	1.96	0.48
2:J:289:ILE:HD12	2:J:472:THR:OG1	2.13	0.48
2:J:580:LEU:CD2	2:J:1095:ILE:HG22	2.44	0.48
2:J:613:VAL:N	2:J:614:PRO:CD	2.76	0.48
2:J:781:GLY:HA2	2:J:1071:VAL:CG1	2.37	0.48
2:J:1483:LEU:CD2	2:J:1525:VAL:HG11	2.44	0.48
2:J:1603:PRO:HB2	2:J:1644:LEU:HD21	1.94	0.48
2:J:1690:THR:HG22	2:J:1691:ALA:N	2.29	0.48
2:J:1762:MET:HG2	2:J:1779:LYS:NZ	2.28	0.48
2:J:1881:TYR:HB2	2:J:2004:PRO:HG3	1.95	0.48
2:J:2052:LYS:HB3	2:J:2074:TRP:CZ2	2.49	0.48
2:J:2062:THR:HG22	2:J:2063:GLY:N	2.28	0.48
2:K:289:ILE:HD13	2:K:493:MET:HE1	1.95	0.48
2:K:579:ARG:HB2	2:K:591:ASP:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:182:TYR:CD1	2:L:183:PHE:N	2.82	0.48
2:L:276:LEU:HD12	2:L:298:ALA:O	2.13	0.48
2:L:731:ALA:HA	2:L:739:ILE:HD12	1.95	0.48
2:L:776:LEU:HG	2:L:807:PHE:CD2	2.48	0.48
2:L:918:ASN:HB3	2:L:924:VAL:HG21	1.95	0.48
2:L:1709:TYR:CE2	2:L:1716:LYS:HG2	2.48	0.48
2:L:1812:LEU:HD21	2:L:1857:VAL:HG11	1.96	0.48
1:A:619:LYS:HG2	1:A:620:LYS:N	2.28	0.47
1:B:1129:ILE:HA	1:B:1139:THR:O	2.14	0.47
1:C:15:VAL:HG11	2:I:2022:LEU:CD2	2.44	0.47
1:C:616:HIS:C	1:C:617:LEU:HD23	2.39	0.47
1:D:335:LEU:HD12	1:D:335:LEU:O	2.14	0.47
1:D:694:TYR:HD2	1:D:695:TYR:CD1	2.32	0.47
1:D:1011:ARG:HD2	1:D:1011:ARG:C	2.39	0.47
1:D:1547:ARG:HG2	1:D:1604:TYR:CD1	2.47	0.47
1:E:408:GLN:HE22	1:E:1609:SER:H	1.62	0.47
1:E:617:LEU:HD23	1:E:617:LEU:N	2.28	0.47
1:E:1287:LEU:HA	1:E:1304:VAL:HG11	1.96	0.47
1:E:1365:ALA:O	1:E:1368:ALA:HB3	2.14	0.47
1:F:28:TRP:CZ2	1:F:53:LEU:HD22	2.48	0.47
1:F:1336:GLU:O	1:F:1340:MET:HG2	2.14	0.47
1:F:1705:GLN:HE21	1:F:1709:GLY:HA2	1.78	0.47
2:G:119:VAL:HA	2:G:122:ILE:HG22	1.95	0.47
2:G:276:LEU:HD12	2:G:298:ALA:O	2.14	0.47
2:G:455:VAL:O	2:G:455:VAL:HG12	2.14	0.47
2:G:505:THR:O	2:G:505:THR:HG22	2.14	0.47
2:G:868:LEU:O	2:G:870:THR:HG23	2.14	0.47
2:G:1351:VAL:HG21	2:G:1583:VAL:O	2.14	0.47
2:H:401:LEU:HD22	2:H:405:LEU:HG	1.96	0.47
2:H:884:PHE:CE2	2:H:1039:GLU:HA	2.47	0.47
2:I:1728:GLU:O	2:I:1757:ILE:CD1	2.63	0.47
2:I:1871:VAL:HG21	2:I:2004:PRO:HD3	1.96	0.47
2:I:1910:VAL:CG1	2:I:1973:ILE:HG21	2.44	0.47
2:J:179:ILE:HG12	2:J:182:TYR:HB3	1.95	0.47
2:J:192:THR:O	2:J:194:PRO:HD3	2.14	0.47
2:J:676:LEU:HD23	2:J:679:ARG:NH2	2.28	0.47
2:J:1515:LEU:HB3	2:J:1525:VAL:CG2	2.44	0.47
2:J:1871:VAL:HG23	2:J:2003:VAL:HG13	1.96	0.47
2:K:116:GLY:O	2:K:561:ARG:NH1	2.47	0.47
2:K:276:LEU:HD12	2:K:298:ALA:O	2.14	0.47
2:K:676:LEU:HD23	2:K:679:ARG:HH21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:980:LEU:HD21	2:K:986:LEU:HD21	1.95	0.47
2:K:1316:VAL:HG13	2:K:1348:PHE:CE2	2.49	0.47
2:K:1492:LEU:HD22	2:K:1511:GLY:HA3	1.95	0.47
2:L:857:VAL:HG11	2:L:876:TRP:CD1	2.49	0.47
2:L:942:MET:CE	2:L:955:LEU:HB3	2.36	0.47
2:L:1393:ASP:HB3	2:L:1395:LEU:HD21	1.95	0.47
2:L:1593:SER:HG	2:L:1596:PHE:HB2	1.79	0.47
1:A:444:LEU:HD22	1:A:448:MET:HG2	1.94	0.47
1:B:1149:LEU:CB	1:D:1149:LEU:HB2	2.42	0.47
1:B:1213:VAL:HG13	1:B:1217:GLU:HB2	1.96	0.47
1:C:22:PHE:HE2	2:I:2017:PHE:CG	2.32	0.47
1:C:755:GLU:C	1:C:757:ASP:N	2.71	0.47
1:C:811:ASP:OD1	1:C:811:ASP:N	2.47	0.47
1:C:828:TRP:NE1	1:C:838:THR:HA	2.29	0.47
1:C:1467:LEU:O	1:C:1471:THR:HG23	2.14	0.47
1:D:1301:VAL:HG23	1:D:1363:MET:HG3	1.96	0.47
1:F:449:GLN:HG3	1:F:474:ILE:HD13	1.95	0.47
1:F:997:THR:CB	1:F:1363:MET:HE2	2.43	0.47
1:F:1386:THR:HG22	1:F:1387:ASP:N	2.30	0.47
2:G:416:GLN:HA	2:G:419:ILE:HG13	1.95	0.47
2:G:600:VAL:HG13	2:G:601:PRO:N	2.29	0.47
2:G:1404:VAL:CG2	2:G:1413:VAL:HG22	2.40	0.47
2:H:193:TYR:O	2:H:197:VAL:HG23	2.14	0.47
2:H:505:THR:O	2:H:505:THR:HG22	2.12	0.47
2:H:820:LYS:HB3	2:H:1080:ASP:O	2.14	0.47
2:H:1114:GLU:HB3	2:H:1169:TYR:HB3	1.96	0.47
2:H:1324:PHE:N	2:H:1583:VAL:HG11	2.28	0.47
2:H:1709:TYR:CE2	2:H:1716:LYS:HG2	2.49	0.47
2:I:208:LEU:HA	2:I:211:LEU:HD12	1.94	0.47
2:I:1426:VAL:HG12	2:I:1427:MET:HG2	1.96	0.47
2:I:1555:VAL:O	2:I:1555:VAL:HG12	2.14	0.47
2:I:1579:ASN:O	2:I:1583:VAL:HG23	2.14	0.47
2:I:1812:LEU:HD21	2:I:1857:VAL:HG11	1.96	0.47
2:J:36:LEU:HD23	2:J:36:LEU:HA	1.74	0.47
2:J:44:GLN:HE21	2:J:48:LEU:HD21	1.79	0.47
2:J:474:THR:HB	2:J:476:GLN:HG2	1.95	0.47
2:J:604:MET:HE1	2:J:777:VAL:HG11	1.96	0.47
2:J:1405:ILE:HG22	2:J:1445:THR:OG1	2.14	0.47
2:J:1709:TYR:C	2:J:1709:TYR:CD2	2.92	0.47
2:J:1975:GLU:O	2:J:1979:GLN:HG3	2.13	0.47
2:J:1977:ARG:CD	2:J:1978:LYS:HE3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:283:THR:HG23	2:K:470:TYR:O	2.13	0.47
2:K:915:PHE:O	2:K:929:MET:HE1	2.14	0.47
2:K:1007:LEU:HD12	2:K:1007:LEU:N	2.23	0.47
2:K:1067:LEU:HB2	3:K:2101:FMN:C7M	2.44	0.47
2:K:1662:ARG:HG2	2:K:1686:GLU:HG2	1.97	0.47
2:K:2017:PHE:CE2	2:K:2021:LEU:HD11	2.50	0.47
2:L:190:TYR:CE1	2:L:201:ILE:HG21	2.49	0.47
2:L:783:GLY:HA2	2:L:815:ARG:HD3	1.96	0.47
2:L:1074:LYS:HE3	2:L:1075:TYR:CE1	2.49	0.47
2:L:1353:GLY:CA	2:L:1397:THR:HG21	2.42	0.47
2:L:1767:GLU:HB2	2:L:2016:PRO:CG	2.42	0.47
2:L:1807:GLN:HE22	2:L:1867:MET:HE2	1.79	0.47
1:A:1050:TRP:HA	1:A:1050:TRP:CE3	2.49	0.47
1:A:1606:VAL:O	1:A:1608:PRO:HD3	2.14	0.47
1:B:1586:VAL:CG2	1:B:1617:ILE:HD11	2.44	0.47
1:C:623:PHE:N	1:C:623:PHE:HD2	2.13	0.47
1:D:41:THR:HA	2:J:1689:VAL:HB	1.96	0.47
1:D:613:PRO:HG2	1:D:616:HIS:HB3	1.95	0.47
1:E:450:TYR:C	1:E:450:TYR:CD2	2.91	0.47
1:E:997:THR:CB	1:E:1363:MET:HE2	2.45	0.47
1:E:1372:GLY:O	1:E:1661:ARG:HD2	2.15	0.47
1:F:439:ARG:HA	1:F:705:ARG:HG2	1.97	0.47
1:F:655:ALA:HB2	1:F:742:TYR:HB2	1.97	0.47
1:F:756:ILE:HA	1:F:759:ILE:HD11	1.97	0.47
1:F:1108:PRO:HA	1:F:1140:VAL:O	2.15	0.47
2:G:452:LEU:HD21	2:G:488:PRO:HA	1.96	0.47
2:G:778:ALA:HB2	2:G:807:PHE:CD2	2.49	0.47
2:G:1061:VAL:HG11	2:G:1066:ILE:HD11	1.95	0.47
2:G:1262:ARG:NH2	2:G:1277:VAL:HG11	2.29	0.47
2:G:1603:PRO:HB2	2:G:1644:LEU:HD21	1.96	0.47
2:H:47:GLN:HG3	2:I:23:PRO:CG	2.44	0.47
2:H:117:ASN:HA	2:H:561:ARG:CD	2.44	0.47
2:H:472:THR:H	2:H:493:MET:HE3	1.79	0.47
2:H:608:MET:HE1	2:H:817:MET:HG2	1.94	0.47
2:H:1199:THR:HB	2:H:1202:MET:HB3	1.96	0.47
2:H:1265:TYR:CE2	2:H:1267:PRO:HG3	2.49	0.47
2:H:1276:GLU:OE1	2:H:1278:MET:HE1	2.14	0.47
2:H:1451:GLU:HG3	2:H:1541:ILE:HD11	1.97	0.47
2:H:1579:ASN:O	2:H:1583:VAL:HG23	2.14	0.47
2:I:129:ILE:HG21	2:I:132:LYS:HG3	1.95	0.47
2:I:356:LEU:HB3	2:I:361:VAL:HG23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:942:MET:HG2	2:I:1029:PRO:HG2	1.96	0.47
2:I:980:LEU:CD2	2:I:986:LEU:HD21	2.44	0.47
2:I:1199:THR:HB	2:I:1202:MET:HB3	1.96	0.47
2:I:1248:GLU:OE2	2:I:1250:ARG:HG2	2.15	0.47
2:I:1261:PHE:HA	2:I:1284:ARG:NH1	2.30	0.47
2:J:126:VAL:HG12	2:J:127:ALA:N	2.29	0.47
2:J:289:ILE:HD13	2:J:493:MET:HE1	1.95	0.47
2:J:778:ALA:HB2	2:J:807:PHE:CD2	2.49	0.47
2:J:859:SER:CB	2:J:863:GLU:HG3	2.44	0.47
2:J:2052:LYS:HD3	2:J:2074:TRP:CE2	2.49	0.47
2:K:401:LEU:HD22	2:K:405:LEU:HG	1.96	0.47
2:K:610:PRO:O	2:K:613:VAL:HG12	2.15	0.47
2:K:837:GLY:HA3	2:K:1074:LYS:HG2	1.96	0.47
2:K:930:THR:HG23	2:K:933:GLU:H	1.79	0.47
2:K:1160:PHE:O	2:K:1164:ILE:HG13	2.13	0.47
2:K:1245:THR:HG23	2:K:1260:THR:OG1	2.14	0.47
2:K:1579:ASN:O	2:K:1583:VAL:HG23	2.14	0.47
2:K:1915:LEU:HD21	2:K:1939:LEU:HD22	1.96	0.47
2:L:665:VAL:O	2:L:665:VAL:HG12	2.14	0.47
2:L:747:ARG:HD3	2:L:1071:VAL:HG11	1.96	0.47
2:L:1348:PHE:O	2:L:1351:VAL:HG12	2.14	0.47
1:A:651:GLN:HA	1:A:677:GLY:HA3	1.96	0.47
1:A:1692:GLN:NE2	1:E:1388:LYS:HD3	2.29	0.47
1:A:1692:GLN:HG3	1:A:1696:PHE:CE2	2.50	0.47
1:C:27:ARG:HD3	2:I:2042:ASN:O	2.13	0.47
1:C:450:TYR:C	1:C:450:TYR:CD2	2.92	0.47
1:C:655:ALA:HB2	1:C:742:TYR:HB2	1.97	0.47
1:C:959:PRO:CD	2:I:974:GLU:HG2	2.44	0.47
1:C:973:TRP:CD1	1:C:1648:LYS:HD2	2.50	0.47
1:D:72:THR:O	1:D:73:SER:HB3	2.14	0.47
1:D:349:MET:HE2	1:D:351:LEU:CD2	2.44	0.47
1:D:872:SER:OG	1:D:874:GLN:HG3	2.14	0.47
1:E:326:ASP:HB3	1:E:333:ARG:NH1	2.24	0.47
1:E:444:LEU:HD22	1:E:448:MET:HG2	1.96	0.47
1:E:486:VAL:CG1	1:E:647:GLY:HA3	2.41	0.47
1:E:1170:ALA:HB3	1:E:1188:LEU:HD13	1.95	0.47
1:F:1071:TYR:C	1:F:1071:TYR:HD2	2.23	0.47
2:G:182:TYR:CD1	2:G:183:PHE:N	2.82	0.47
2:G:350:MET:CE	2:G:435:ILE:HD12	2.36	0.47
2:G:912:LYS:NZ	2:G:1044:LYS:O	2.47	0.47
2:G:1348:PHE:CE1	2:G:1351:VAL:HG11	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:855:ILE:HD13	2:H:856:THR:N	2.23	0.47
2:H:857:VAL:CG1	2:H:876:TRP:CD1	2.97	0.47
2:H:1189:THR:O	2:H:1191:PRO:HD3	2.14	0.47
2:H:1507:VAL:O	2:H:1531:GLU:HA	2.14	0.47
2:H:1722:ALA:HB2	2:H:1812:LEU:HD11	1.94	0.47
2:I:617:PHE:CD1	2:I:822:ALA:HA	2.50	0.47
2:I:1009:ASN:HD22	2:I:1010:ALA:N	2.12	0.47
2:I:1189:THR:O	2:I:1191:PRO:HD3	2.13	0.47
2:I:1483:LEU:HD21	2:I:1525:VAL:HG11	1.97	0.47
2:J:118:ASP:OD2	2:J:559:PHE:HB2	2.14	0.47
2:J:582:LYS:HA	2:J:587:GLN:O	2.13	0.47
2:J:659:THR:HA	2:J:689:GLY:O	2.14	0.47
2:J:665:VAL:C	2:J:667:PRO:HD3	2.39	0.47
2:J:1335:PHE:HE1	2:J:1629:ILE:CD1	2.26	0.47
2:K:126:VAL:HG12	2:K:127:ALA:N	2.29	0.47
2:K:253:ILE:HB	2:K:287:GLN:HE22	1.79	0.47
2:K:314:LEU:O	2:K:318:ILE:HG13	2.14	0.47
2:K:440:HIS:CD2	2:K:499:VAL:HG23	2.49	0.47
2:K:600:VAL:CG1	2:K:601:PRO:HD2	2.42	0.47
2:K:1289:TYR:CB	2:K:1370:LEU:HD23	2.43	0.47
2:K:1521:GLU:OE2	2:K:2028:THR:CG2	2.58	0.47
2:K:1588:ASN:OD1	2:K:1589:PRO:HD2	2.15	0.47
2:L:580:LEU:O	2:L:581:VAL:HG23	2.13	0.47
2:L:778:ALA:HB2	2:L:807:PHE:CD2	2.49	0.47
2:L:912:LYS:NZ	2:L:1044:LYS:O	2.47	0.47
2:L:1120:ILE:CD1	2:L:1169:TYR:CE1	2.97	0.47
2:L:1375:HIS:CE1	2:L:1610:MET:SD	3.05	0.47
1:A:548:VAL:CG2	1:F:569:LEU:HD13	2.42	0.47
1:A:743:VAL:O	1:A:745:PRO:HD3	2.15	0.47
1:A:1270:THR:HG21	1:E:1402:THR:HG21	1.97	0.47
1:B:15:VAL:HG11	2:H:2022:LEU:CD2	2.45	0.47
1:B:22:PHE:HE2	2:H:2017:PHE:CG	2.32	0.47
1:B:72:THR:O	1:B:73:SER:HB3	2.14	0.47
1:B:648:LEU:HD12	1:B:649:THR:N	2.29	0.47
1:B:829:TYR:OH	1:B:896:PRO:HD2	2.15	0.47
1:B:1512:LEU:HD21	1:B:1641:TYR:CE2	2.50	0.47
1:C:427:ARG:O	1:C:430:VAL:HB	2.15	0.47
1:C:538:ARG:CA	1:C:585:MET:HE1	2.42	0.47
1:C:683:THR:HB	1:C:714:PHE:CB	2.38	0.47
1:C:788:ARG:HB2	1:C:790:TYR:CD2	2.50	0.47
1:D:40:ARG:HH21	1:D:74:VAL:CG2	2.20	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:701:ARG:HH11	1:D:1610:ARG:NH2	2.12	0.47
1:E:40:ARG:HH21	1:E:72:THR:HG22	1.80	0.47
1:E:553:ARG:HH21	1:E:567:ASN:HD21	1.60	0.47
1:E:1640:LYS:HG3	1:E:1641:TYR:CD1	2.49	0.47
1:F:623:PHE:N	1:F:623:PHE:HD2	2.12	0.47
1:F:983:GLN:O	1:F:1418:ILE:HD11	2.13	0.47
1:F:1565:PRO:CG	1:F:1572:TRP:CZ3	2.95	0.47
1:F:1622:VAL:O	1:F:1622:VAL:HG13	2.13	0.47
2:G:24:LEU:CD1	2:G:45:ALA:HB1	2.44	0.47
2:G:506:VAL:O	2:G:506:VAL:HG22	2.15	0.47
2:G:544:ALA:O	2:G:554:TYR:HB3	2.14	0.47
2:G:674:ILE:HB	2:G:675:PRO:HD3	1.96	0.47
2:G:747:ARG:HD3	2:G:1071:VAL:HG11	1.96	0.47
2:G:1248:GLU:OE1	2:G:1248:GLU:HA	2.15	0.47
2:G:1348:PHE:O	2:G:1351:VAL:HG12	2.14	0.47
2:H:215:TRP:HE3	2:H:215:TRP:N	2.12	0.47
2:H:868:LEU:HD13	2:H:1068:GLN:HG3	1.95	0.47
2:H:1266:HIS:C	2:H:1268:GLU:N	2.72	0.47
2:I:192:THR:O	2:I:194:PRO:HD3	2.14	0.47
2:I:1031:VAL:HA	2:I:1032:PRO:HD3	1.66	0.47
2:I:1382:MET:CB	2:I:1633:ARG:HH11	2.28	0.47
2:I:1749:PHE:CG	2:I:1758:ARG:HB3	2.49	0.47
2:I:1863:ARG:HB2	2:I:2017:PHE:CE1	2.49	0.47
2:I:1871:VAL:CG2	2:I:2004:PRO:HD3	2.44	0.47
2:I:1915:LEU:HD21	2:I:1939:LEU:HD22	1.96	0.47
2:J:1048:TRP:CD1	2:J:1049:GLN:HG2	2.49	0.47
2:J:1694:PHE:CD2	2:J:1843:ALA:CA	2.95	0.47
2:J:1770:ASN:HB2	2:J:1776:LYS:CE	2.36	0.47
2:K:129:ILE:HG21	2:K:132:LYS:HG3	1.95	0.47
2:K:262:MET:HE3	2:K:262:MET:HB3	1.69	0.47
2:K:605:VAL:HG22	2:K:816:MET:HG3	1.97	0.47
2:K:652:ILE:CG2	2:K:656:ARG:HB2	2.44	0.47
2:K:1402:ASN:O	2:K:1403:ALA:HB2	2.13	0.47
2:K:1475:LEU:HA	2:K:1526:ALA:HB2	1.97	0.47
2:K:1543:TYR:HD2	2:K:1544:LEU:HD23	1.78	0.47
2:K:1587:TYR:O	2:K:1588:ASN:C	2.57	0.47
2:K:1709:TYR:CD2	2:K:1709:TYR:C	2.92	0.47
2:L:92:GLU:C	2:L:94:ALA:H	2.22	0.47
2:L:555:LYS:HB3	2:L:556:PRO:HD3	1.96	0.47
2:L:1031:VAL:HG22	2:L:1041:TRP:HB3	1.96	0.47
2:L:1818:PHE:HE2	2:L:1822:ARG:HH12	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1001:GLU:HG2	1:A:1008:ALA:HB2	1.96	0.47
1:A:1249:ILE:HD12	1:A:1250:LEU:N	2.30	0.47
1:B:557:ARG:HH11	1:E:558:LEU:HD23	1.80	0.47
1:B:1278:GLY:CA	1:B:1630:LYS:HE2	2.39	0.47
1:B:1280:CYS:HA	1:B:1566:LYS:O	2.14	0.47
1:C:56:MET:HE3	1:C:56:MET:HB2	1.87	0.47
1:C:326:ASP:HB3	1:C:333:ARG:NH1	2.23	0.47
1:C:335:LEU:HD13	1:E:342:ILE:HG22	1.97	0.47
1:C:667:ALA:O	1:C:671:GLN:HG3	2.14	0.47
1:C:1011:ARG:HD2	1:C:1011:ARG:C	2.40	0.47
1:C:1055:THR:C	1:C:1057:GLU:H	2.23	0.47
1:D:628:TYR:CD1	1:D:628:TYR:C	2.92	0.47
1:D:1491:ASN:HD22	1:D:1491:ASN:N	2.12	0.47
1:E:621:ASP:HB3	1:E:625:ASN:H	1.79	0.47
1:E:655:ALA:HB2	1:E:742:TYR:HB2	1.97	0.47
1:E:768:ARG:HA	1:E:772:THR:OG1	2.14	0.47
1:E:998:GLY:HA3	1:E:1361:VAL:CG1	2.38	0.47
1:E:1386:THR:HG22	1:E:1387:ASP:H	1.80	0.47
1:F:13:LEU:HD11	2:L:2058:VAL:HG21	1.95	0.47
1:F:427:ARG:NH1	1:F:492:ILE:HG13	2.28	0.47
1:F:453:ASP:HB2	1:F:454:HIS:HD2	1.79	0.47
1:F:486:VAL:CG1	1:F:647:GLY:HA3	2.40	0.47
1:F:900:ASP:C	1:F:901:LEU:HD23	2.39	0.47
2:G:208:LEU:HD12	2:G:227:ILE:HD11	1.96	0.47
2:G:1238:GLY:O	2:G:1239:ASP:OD1	2.33	0.47
2:G:1356:ALA:CB	2:G:1397:THR:HG22	2.45	0.47
2:G:2062:THR:HG22	2:G:2064:SER:N	2.30	0.47
2:H:582:LYS:HA	2:H:587:GLN:O	2.14	0.47
2:H:674:ILE:HB	2:H:675:PRO:HD3	1.97	0.47
2:H:731:ALA:HA	2:H:739:ILE:HD12	1.97	0.47
2:I:529:ASN:HD22	2:I:552:VAL:CG2	2.28	0.47
2:I:594:MET:HE1	2:I:604:MET:HB3	1.97	0.47
2:I:820:LYS:HB3	2:I:1080:ASP:O	2.15	0.47
2:I:915:PHE:O	2:I:915:PHE:CG	2.68	0.47
2:I:1622:THR:O	2:I:1626:GLU:HA	2.14	0.47
2:I:1678:VAL:O	2:I:1679:LEU:HD23	2.14	0.47
2:I:1728:GLU:C	2:I:1757:ILE:HD11	2.40	0.47
2:J:205:ALA:O	2:J:209:GLN:HG3	2.14	0.47
2:J:336:LEU:HD23	2:J:336:LEU:C	2.40	0.47
2:J:501:TRP:CZ2	2:J:528:THR:HG21	2.49	0.47
2:J:580:LEU:HD12	2:J:1103:TYR:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:918:ASN:HB3	2:J:924:VAL:HG21	1.97	0.47
2:J:1637:VAL:CG1	2:J:1679:LEU:HD22	2.44	0.47
2:J:1722:ALA:HB2	2:J:1812:LEU:HD11	1.95	0.47
2:J:1818:PHE:HE2	2:J:1822:ARG:NH1	2.13	0.47
2:J:2053:GLU:H	2:J:2053:GLU:HG3	1.44	0.47
2:K:854:VAL:HG21	2:K:1070:PRO:CA	2.44	0.47
2:L:314:LEU:HG	2:L:318:ILE:HD11	1.96	0.47
2:L:595:SER:CB	2:L:602:PRO:HG3	2.30	0.47
2:L:930:THR:HG22	2:L:933:GLU:H	1.79	0.47
2:L:1266:HIS:CD2	2:L:1266:HIS:N	2.83	0.47
2:L:1266:HIS:C	2:L:1268:GLU:H	2.23	0.47
2:L:1285:ILE:O	2:L:1288:PHE:HB3	2.15	0.47
2:L:1410:GLY:HA2	2:L:1437:GLY:O	2.14	0.47
2:L:1442:TYR:CA	2:L:1445:THR:HG22	2.43	0.47
1:A:406:ALA:CA	1:A:439:ARG:HH11	2.24	0.47
1:A:450:TYR:C	1:A:450:TYR:CD2	2.93	0.47
1:A:541:VAL:O	1:A:545:LEU:HG	2.14	0.47
1:A:744:VAL:HG13	1:A:746:PHE:CE1	2.50	0.47
1:A:1164:ILE:HD13	1:A:1355:GLN:HG3	1.96	0.47
1:A:1287:LEU:HA	1:A:1304:VAL:HG11	1.97	0.47
1:A:1386:THR:HB	1:E:1269:SER:O	2.14	0.47
1:A:1544:HIS:CG	1:A:1544:HIS:O	2.67	0.47
1:A:1547:ARG:HG2	1:A:1604:TYR:CD1	2.43	0.47
1:B:447:PHE:CE1	1:B:451:HIS:NE2	2.83	0.47
1:B:613:PRO:C	1:B:615:LEU:N	2.73	0.47
1:B:623:PHE:N	1:B:623:PHE:HD2	2.11	0.47
1:B:929:ARG:O	1:B:933:ILE:HG13	2.15	0.47
1:B:943:VAL:HG23	2:H:1539:PRO:HG3	1.95	0.47
1:B:1321:MET:HE2	1:B:1321:MET:HB3	1.70	0.47
1:B:1522:PHE:HE2	1:B:1535:SER:HA	1.80	0.47
1:B:1560:TYR:CE2	1:B:1589:ASN:HA	2.50	0.47
1:C:655:ALA:CB	1:C:742:TYR:HB2	2.45	0.47
1:C:716:GLN:HB3	1:C:769:ILE:HG23	1.97	0.47
1:C:983:GLN:O	1:C:1418:ILE:HD11	2.15	0.47
1:C:1050:TRP:HA	1:C:1050:TRP:CE3	2.50	0.47
1:C:1344:THR:HG22	1:C:1599:MET:HE3	1.97	0.47
1:C:1475:GLU:HB3	1:C:1479:ARG:NH2	2.30	0.47
1:D:406:ALA:CA	1:D:439:ARG:HH11	2.23	0.47
1:D:1149:LEU:HD23	1:D:1149:LEU:HA	1.74	0.47
1:E:14:LEU:HD21	2:K:1844:LEU:CD2	2.44	0.47
1:E:744:VAL:HG13	1:E:746:PHE:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:999:LEU:HD11	1:E:1575:ASN:CB	2.45	0.47
1:E:1432:ILE:HD11	1:E:1481:GLN:CB	2.45	0.47
1:E:1564:HIS:C	1:E:1564:HIS:ND1	2.73	0.47
1:E:1692:GLN:HG3	1:E:1696:PHE:CE2	2.50	0.47
1:F:398:VAL:HG22	1:F:710:VAL:HG22	1.96	0.47
1:F:447:PHE:CE1	1:F:451:HIS:NE2	2.83	0.47
1:F:543:ASN:O	1:F:546:ARG:HB2	2.15	0.47
1:F:628:TYR:CD1	1:F:629:SER:N	2.75	0.47
1:F:1394:PRO:HB3	1:F:1627:PHE:CE2	2.50	0.47
1:F:1524:GLY:HA2	1:F:1531:ASP:OD1	2.15	0.47
1:F:1603:ASP:HB2	1:F:1604:TYR:CD2	2.49	0.47
2:G:35:PHE:CE1	2:G:105:ILE:HD13	2.49	0.47
2:G:159:PHE:CE1	2:G:268:LEU:HD11	2.50	0.47
2:G:609:THR:CB	2:G:610:PRO:HD3	2.45	0.47
2:G:859:SER:HB3	2:G:863:GLU:HG3	1.97	0.47
2:G:1266:HIS:C	2:G:1268:GLU:N	2.71	0.47
2:G:1335:PHE:CE1	2:G:1629:ILE:CD1	2.96	0.47
2:G:1464:LEU:C	2:G:1464:LEU:HD13	2.40	0.47
2:G:1886:VAL:CG1	2:G:1900:LEU:HD11	2.45	0.47
2:H:119:VAL:HG21	2:H:140:TYR:CD2	2.50	0.47
2:H:204:ILE:HG21	2:H:312:VAL:HG21	1.95	0.47
2:H:205:ALA:O	2:H:209:GLN:HG3	2.14	0.47
2:H:220:GLN:NE2	2:H:324:GLN:HG2	2.30	0.47
2:H:356:LEU:HD23	2:H:356:LEU:HA	1.67	0.47
2:H:465:LEU:HA	2:H:465:LEU:HD23	1.73	0.47
2:H:582:LYS:HG3	2:H:1110:VAL:CG1	2.44	0.47
2:H:1251:THR:HG22	2:H:1292:VAL:HG13	1.96	0.47
2:H:1266:HIS:C	2:H:1268:GLU:H	2.22	0.47
2:H:1678:VAL:O	2:H:1679:LEU:HD23	2.15	0.47
2:H:1896:THR:CG2	2:H:1897:GLU:N	2.77	0.47
2:I:613:VAL:H	2:I:614:PRO:HD3	1.78	0.47
2:I:1067:LEU:HD12	2:I:1067:LEU:H	1.80	0.47
2:I:1115:TYR:CZ	2:I:1174:ALA:HB2	2.50	0.47
2:I:1249:GLY:HA2	2:I:1256:VAL:HG22	1.97	0.47
2:I:2050:ILE:HG12	2:I:2050:ILE:O	2.14	0.47
2:J:401:LEU:HD22	2:J:405:LEU:HG	1.96	0.47
2:J:612:THR:CG2	2:J:629:GLU:O	2.62	0.47
2:J:621:THR:OG1	2:J:1083:ILE:HD13	2.15	0.47
2:J:652:ILE:HG23	2:J:653:PRO:HD2	1.97	0.47
2:J:685:VAL:HA	2:J:686:PRO:HD3	1.66	0.47
2:J:740:ILE:HD12	2:J:740:ILE:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1048:TRP:NE1	2:J:1049:GLN:HG2	2.29	0.47
2:J:1245:THR:HG23	2:J:1260:THR:OG1	2.15	0.47
2:J:1662:ARG:HG2	2:J:1686:GLU:HG2	1.96	0.47
2:J:1672:LYS:O	2:J:1672:LYS:HG2	2.14	0.47
2:J:1977:ARG:HD2	2:J:1978:LYS:HE3	1.95	0.47
2:K:24:LEU:HD12	2:K:37:VAL:CG2	2.38	0.47
2:K:158:LEU:HD12	2:K:558:LEU:HD23	1.96	0.47
2:K:246:ALA:HB3	2:K:247:PRO:HD3	1.97	0.47
2:K:665:VAL:O	2:K:665:VAL:HG12	2.15	0.47
2:K:788:THR:CG2	2:K:1094:HIS:CE1	2.97	0.47
2:K:1093:ASP:O	2:K:1097:PHE:CD1	2.65	0.47
2:K:1097:PHE:CD2	2:K:1100:ARG:NH1	2.82	0.47
2:K:1103:TYR:O	2:K:1106:LYS:HB2	2.15	0.47
2:K:1199:THR:HB	2:K:1202:MET:HB3	1.96	0.47
2:K:1249:GLY:HA2	2:K:1256:VAL:HG22	1.95	0.47
2:K:1315:ILE:HA	2:K:1393:ASP:O	2.14	0.47
2:K:1622:THR:O	2:K:1626:GLU:HA	2.14	0.47
2:K:1678:VAL:O	2:K:1679:LEU:HD23	2.15	0.47
2:L:73:VAL:HA	2:L:113:PHE:HE2	1.80	0.47
2:L:271:GLU:HG2	2:L:301:TRP:NE1	2.30	0.47
2:L:718:PRO:HG2	2:L:741:LEU:CD1	2.45	0.47
2:L:787:ASP:O	2:L:790:PRO:HD2	2.15	0.47
2:L:938:MET:CE	2:L:959:THR:HA	2.45	0.47
2:L:1048:TRP:NE1	2:L:1049:GLN:HG2	2.29	0.47
2:L:1238:GLY:O	2:L:1239:ASP:OD1	2.32	0.47
2:L:1257:VAL:HA	2:L:1258:PRO:HD3	1.72	0.47
2:L:1504:TYR:HD2	2:L:1507:VAL:HG11	1.79	0.47
2:L:1637:VAL:CG1	2:L:1679:LEU:HD22	2.44	0.47
2:L:2017:PHE:CE2	2:L:2021:LEU:HD11	2.50	0.47
1:A:340:LEU:HD22	1:A:351:LEU:HD11	1.97	0.47
1:A:349:MET:HE2	1:A:351:LEU:CD2	2.45	0.47
1:A:414:TYR:O	1:A:418:ILE:HG13	2.15	0.47
1:A:1118:GLU:OE2	1:E:1154:LEU:HD21	2.15	0.47
1:A:1473:HIS:CD2	1:E:1414:PRO:HD2	2.50	0.47
1:B:389:PRO:HD3	1:E:374:LEU:HD11	1.96	0.47
1:B:1011:ARG:HD2	1:B:1011:ARG:C	2.40	0.47
1:B:1264:MET:HB3	1:D:1390:GLY:O	2.15	0.47
1:B:1386:THR:HG22	1:B:1387:ASP:N	2.30	0.47
1:C:1473:HIS:CD2	1:F:1414:PRO:HG2	2.50	0.47
1:D:36:LEU:CD2	1:D:44:ILE:HD11	2.44	0.47
1:D:655:ALA:O	1:D:680:VAL:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:712:VAL:HG13	1:D:713:PRO:HD2	1.97	0.47
1:D:1212:TYR:CD2	1:D:1371:MET:HG2	2.50	0.47
1:D:1220:ASN:HB3	1:D:1273:ILE:HG22	1.97	0.47
1:D:1321:MET:HE2	1:D:1321:MET:HB3	1.66	0.47
1:D:1524:GLY:HA2	1:D:1531:ASP:OD1	2.15	0.47
1:D:1574:LEU:O	1:D:1578:LEU:HG	2.15	0.47
1:E:1359:VAL:CG1	1:E:1360:GLN:N	2.78	0.47
1:F:458:GLU:CD	1:F:458:GLU:H	2.22	0.47
1:F:655:ALA:CB	1:F:742:TYR:HB2	2.45	0.47
1:F:875:GLU:O	1:F:878:PHE:HB3	2.15	0.47
1:F:989:ASN:H	1:F:1491:ASN:ND2	1.88	0.47
1:F:1050:TRP:HA	1:F:1050:TRP:CE3	2.49	0.47
1:F:1586:VAL:CG2	1:F:1617:ILE:HD11	2.45	0.47
2:G:613:VAL:N	2:G:614:PRO:CD	2.78	0.47
2:G:699:ILE:H	2:G:699:ILE:CD1	2.28	0.47
2:G:759:GLN:N	2:G:760:PRO:CD	2.78	0.47
2:G:1093:ASP:O	2:G:1097:PHE:CD1	2.67	0.47
2:G:1483:LEU:CD2	2:G:1525:VAL:HG11	2.45	0.47
2:G:1868:GLN:HG2	2:G:1873:ARG:NH2	2.29	0.47
2:G:1977:ARG:CD	2:G:1978:LYS:HE3	2.45	0.47
2:H:129:ILE:HG12	2:H:131:ALA:HB3	1.96	0.47
2:H:179:ILE:HG12	2:H:182:TYR:HB3	1.95	0.47
2:H:859:SER:CB	2:H:863:GLU:HG3	2.45	0.47
2:H:1749:PHE:CG	2:H:1758:ARG:HB3	2.49	0.47
2:H:1903:VAL:O	2:H:1907:ILE:HG13	2.15	0.47
2:I:1093:ASP:O	2:I:1097:PHE:HB2	2.15	0.47
2:I:1276:GLU:OE1	2:I:1278:MET:HE1	2.14	0.47
2:I:1301:PHE:HB3	2:I:1364:ARG:HG3	1.97	0.47
2:I:1305:LEU:HD11	2:I:1365:LYS:CD	2.37	0.47
2:J:119:VAL:HG21	2:J:140:TYR:CD2	2.50	0.47
2:J:1093:ASP:O	2:J:1097:PHE:HB2	2.15	0.47
2:J:1328:VAL:HA	2:J:1611:TYR:HE1	1.80	0.47
2:J:1375:HIS:HE1	2:J:1610:MET:SD	2.38	0.47
2:K:179:ILE:HG12	2:K:182:TYR:HB3	1.96	0.47
2:K:662:LEU:HD22	2:K:673:GLN:OE1	2.15	0.47
2:K:911:GLN:HE21	2:K:1065:CYS:H	1.62	0.47
2:K:1099:LEU:HD12	2:K:1103:TYR:HB2	1.95	0.47
2:K:1468:ARG:NH1	2:K:1468:ARG:CB	2.75	0.47
2:L:106:LEU:HD11	2:L:143:GLY:O	2.15	0.47
2:L:676:LEU:HD23	2:L:679:ARG:HH21	1.80	0.47
2:L:1276:GLU:HB3	2:L:1278:MET:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1594:ARG:NH1	2:L:1594:ARG:CG	2.62	0.47
2:L:1863:ARG:HB2	2:L:2017:PHE:HE1	1.80	0.47
2:L:2038:LYS:HD3	2:L:2038:LYS:HA	1.73	0.47
1:A:449:GLN:HG3	1:A:474:ILE:HD13	1.97	0.47
1:A:453:ASP:HB2	1:A:454:HIS:HD2	1.80	0.47
1:A:1640:LYS:HG3	1:A:1641:TYR:CD1	2.50	0.47
1:C:555:GLN:HG2	1:C:557:ARG:NH2	2.29	0.47
1:C:1149:LEU:HD12	1:F:1097:LEU:CD1	2.44	0.47
1:D:47:ILE:CD1	2:J:1818:PHE:HD1	2.28	0.47
1:D:470:GLY:O	1:D:474:ILE:HG13	2.15	0.47
1:D:541:VAL:O	1:D:545:LEU:HG	2.14	0.47
1:D:621:ASP:HB3	1:D:625:ASN:H	1.79	0.47
1:D:755:GLU:HB2	1:D:757:ASP:HB2	1.97	0.47
1:D:1457:GLU:H	1:D:1457:GLU:HG3	1.42	0.47
1:E:349:MET:HG3	1:E:349:MET:O	2.15	0.47
1:E:918:LEU:HA	1:E:921:GLU:HG2	1.97	0.47
1:E:994:VAL:HG21	1:E:1291:TYR:CD1	2.50	0.47
1:F:26:VAL:CG2	2:L:2006:HIS:CE1	2.98	0.47
1:F:871:PHE:N	1:F:871:PHE:CD1	2.83	0.47
1:F:902:ASN:O	1:F:904:GLY:N	2.44	0.47
1:F:1493:PHE:HE2	1:F:1509:THR:HG22	1.80	0.47
2:G:70:SER:HB2	2:G:74:GLU:OE2	2.15	0.47
2:G:80:ILE:HG12	2:G:105:ILE:HG22	1.97	0.47
2:G:342:ASN:CB	2:G:406:ARG:NH2	2.77	0.47
2:G:460:ILE:HD13	2:G:487:ILE:HD11	1.97	0.47
2:G:610:PRO:O	2:G:613:VAL:HG12	2.15	0.47
2:G:676:LEU:HD23	2:G:679:ARG:NH2	2.30	0.47
2:G:1115:TYR:HB3	2:G:1267:PRO:HB3	1.97	0.47
2:G:1661:GLY:HA3	2:G:1827:VAL:O	2.15	0.47
2:H:37:VAL:HG11	2:H:42:HIS:HA	1.97	0.47
2:H:73:VAL:HA	2:H:113:PHE:HE2	1.80	0.47
2:H:605:VAL:HG22	2:H:816:MET:HG3	1.96	0.47
2:H:699:ILE:H	2:H:699:ILE:CD1	2.28	0.47
2:H:792:LEU:O	2:H:792:LEU:HD12	2.14	0.47
2:H:1146:LEU:O	2:H:1201:GLY:HA2	2.15	0.47
2:H:1224:GLN:HG3	2:H:1578:GLU:OE2	2.15	0.47
2:H:1305:LEU:HD23	2:H:1366:ILE:CD1	2.43	0.47
2:H:1315:ILE:HA	2:H:1393:ASP:O	2.15	0.47
2:H:1346:MET:HG2	2:H:1617:ARG:NH2	2.30	0.47
2:I:193:TYR:O	2:I:197:VAL:HG23	2.15	0.47
2:I:274:GLU:O	2:I:278:ARG:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:489:GLU:HG2	2:I:492:ARG:CZ	2.45	0.47
2:I:665:VAL:C	2:I:667:PRO:HD3	2.40	0.47
2:I:1728:GLU:C	2:I:1757:ILE:CD1	2.88	0.47
2:J:314:LEU:HG	2:J:318:ILE:HD11	1.97	0.47
2:J:544:ALA:O	2:J:554:TYR:HB3	2.15	0.47
2:J:932:ALA:O	2:J:935:VAL:HG13	2.14	0.47
2:J:1305:LEU:HD23	2:J:1366:ILE:CG1	2.44	0.47
2:J:1749:PHE:CG	2:J:1758:ARG:HB3	2.49	0.47
2:K:197:VAL:CG2	2:K:263:ILE:HD11	2.44	0.47
2:K:356:LEU:HD23	2:K:356:LEU:HA	1.71	0.47
2:K:544:ALA:O	2:K:554:TYR:HB3	2.15	0.47
2:K:615:TRP:CE3	2:K:647:LYS:HB3	2.50	0.47
2:K:834:ASP:O	2:K:836:PRO:HD3	2.15	0.47
2:K:1507:VAL:O	2:K:1531:GLU:HA	2.14	0.47
2:K:1903:VAL:O	2:K:1907:ILE:HG13	2.15	0.47
2:L:388:ASN:HD22	2:L:389:PHE:N	2.13	0.47
2:L:421:PHE:C	2:L:423:GLN:H	2.23	0.47
2:L:474:THR:HB	2:L:476:GLN:HG2	1.96	0.47
2:L:544:ALA:O	2:L:554:TYR:HB3	2.15	0.47
2:L:979:LEU:CD2	2:L:999:ALA:HB3	2.45	0.47
2:L:1048:TRP:CE2	2:L:1049:GLN:HG2	2.50	0.47
2:L:1555:VAL:O	2:L:1555:VAL:HG12	2.14	0.47
1:A:36:LEU:O	1:A:76:ARG:NH2	2.46	0.47
1:A:1170:ALA:HB3	1:A:1188:LEU:HD13	1.97	0.47
1:B:378:GLU:OE1	1:E:718:SER:HA	2.14	0.47
1:B:427:ARG:O	1:B:430:VAL:HB	2.15	0.47
1:B:767:HIS:CB	1:B:813:LEU:HD12	2.44	0.47
1:B:902:ASN:O	1:B:904:GLY:N	2.47	0.47
1:B:1086:PHE:CZ	1:B:1310:PHE:HD2	2.33	0.47
1:B:1359:VAL:CG1	1:B:1360:GLN:N	2.78	0.47
1:B:1501:ALA:O	1:B:1504:ARG:HB2	2.14	0.47
1:C:13:LEU:HD11	2:I:2058:VAL:HG21	1.97	0.47
1:C:430:VAL:HG11	1:C:490:VAL:HG11	1.95	0.47
1:C:432:GLN:O	1:C:436:ILE:HG13	2.15	0.47
1:D:28:TRP:CZ2	1:D:53:LEU:HD22	2.50	0.47
1:D:443:LEU:H	1:D:443:LEU:HD12	1.79	0.47
1:D:1564:HIS:C	1:D:1564:HIS:ND1	2.73	0.47
1:E:72:THR:O	1:E:73:SER:HB3	2.15	0.47
1:E:447:PHE:HA	1:E:1550:GLY:O	2.15	0.47
1:E:1143:ARG:HH21	1:F:356:LYS:NZ	2.12	0.47
1:E:1209:PHE:CZ	1:E:1301:VAL:HG21	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1591:ASN:C	1:E:1593:ASP:H	2.23	0.47
1:F:1359:VAL:HG12	1:F:1360:GLN:N	2.30	0.47
2:G:179:ILE:HG12	2:G:182:TYR:HB3	1.97	0.47
2:G:276:LEU:HD13	2:G:466:VAL:HG21	1.96	0.47
2:G:595:SER:CB	2:G:602:PRO:HG3	2.31	0.47
2:G:1048:TRP:CD1	2:G:1049:GLN:HG2	2.50	0.47
2:G:1137:ARG:HB3	2:G:1142:ILE:HG23	1.96	0.47
2:G:1266:HIS:CD2	2:G:1266:HIS:N	2.83	0.47
2:H:747:ARG:HD3	2:H:1071:VAL:HG11	1.97	0.47
2:H:1361:ILE:HD11	2:H:1433:PHE:CD2	2.50	0.47
2:H:2050:ILE:O	2:H:2050:ILE:HG12	2.15	0.47
2:I:179:ILE:HG12	2:I:182:TYR:HB3	1.97	0.47
2:I:699:ILE:HD12	2:I:699:ILE:H	1.80	0.47
2:I:1262:ARG:NH2	2:I:1277:VAL:HG11	2.29	0.47
2:J:106:LEU:HD11	2:J:143:GLY:O	2.15	0.47
2:J:690:LEU:HD22	2:J:691:THR:H	1.80	0.47
2:J:703:ASN:O	2:J:707:GLN:HG3	2.15	0.47
2:J:1807:GLN:HE22	2:J:1867:MET:HE2	1.79	0.47
2:J:1910:VAL:CG1	2:J:1973:ILE:HG21	2.44	0.47
2:K:192:THR:O	2:K:194:PRO:HD3	2.15	0.47
2:K:468:PRO:HB3	2:K:477:ASP:OD2	2.14	0.47
2:K:604:MET:HG3	2:K:627:HIS:O	2.15	0.47
2:K:605:VAL:HG13	2:K:816:MET:HG3	1.96	0.47
2:K:686:PRO:HB3	2:K:1187:PHE:CE1	2.49	0.47
2:K:884:PHE:CE2	2:K:1039:GLU:HA	2.50	0.47
2:K:1091:HIS:O	2:K:1094:HIS:HB2	2.15	0.47
2:K:1335:PHE:N	2:K:1335:PHE:CD1	2.83	0.47
2:K:1722:ALA:HB2	2:K:1812:LEU:HD11	1.97	0.47
2:L:645:ILE:HD13	2:L:687:ILE:HD11	1.95	0.47
2:L:1305:LEU:H	2:L:1305:LEU:CD1	2.25	0.47
1:A:470:GLY:O	1:A:474:ILE:HG13	2.14	0.46
1:A:613:PRO:HD3	1:A:628:TYR:CE2	2.50	0.46
1:A:655:ALA:HB3	1:A:680:VAL:HG12	1.97	0.46
1:A:999:LEU:HD11	1:A:1575:ASN:CB	2.46	0.46
1:A:1432:ILE:HD11	1:A:1481:GLN:CB	2.45	0.46
1:B:398:VAL:HG22	1:B:710:VAL:HG22	1.97	0.46
1:B:995:VAL:HG13	1:B:1375:ILE:HG23	1.97	0.46
1:B:1068:TYR:O	1:B:1072:ILE:HG13	2.15	0.46
1:B:1236:TYR:O	1:D:1237:LYS:HB2	2.15	0.46
1:B:1547:ARG:HG2	1:B:1604:TYR:CD1	2.43	0.46
1:C:1359:VAL:HG12	1:C:1360:GLN:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1512:LEU:HD21	1:C:1641:TYR:CE2	2.49	0.46
1:D:995:VAL:CG1	1:D:1375:ILE:HG23	2.45	0.46
1:E:539:THR:O	1:E:542:GLN:HG2	2.15	0.46
1:E:1078:ILE:HB	1:E:1338:GLY:HA3	1.96	0.46
1:E:1213:VAL:HG13	1:E:1217:GLU:OE1	2.15	0.46
1:E:1457:GLU:H	1:E:1457:GLU:HG3	1.41	0.46
1:F:326:ASP:HB3	1:F:333:ARG:NH1	2.24	0.46
1:F:415:TYR:CD2	1:F:1614:THR:HA	2.50	0.46
1:F:628:TYR:OH	1:F:630:LYS:HG2	2.15	0.46
1:F:855:ALA:CA	1:F:919:ARG:HH21	2.13	0.46
1:F:1330:GLU:OE2	1:F:1342:ARG:NH2	2.49	0.46
2:G:119:VAL:HG21	2:G:140:TYR:CD2	2.51	0.46
2:G:271:GLU:HG2	2:G:301:TRP:NE1	2.29	0.46
2:G:382:LEU:HB3	2:G:499:VAL:HB	1.97	0.46
2:G:485:ASP:HB2	2:G:488:PRO:HD2	1.96	0.46
2:H:487:ILE:HB	2:H:488:PRO:CD	2.40	0.46
2:H:825:SER:CB	2:H:1053:ILE:HG13	2.45	0.46
2:H:1160:PHE:O	2:H:1164:ILE:HG13	2.14	0.46
2:H:1261:PHE:HA	2:H:1284:ARG:NH1	2.30	0.46
2:H:1709:TYR:C	2:H:1709:TYR:CD2	2.93	0.46
2:I:92:GLU:C	2:I:94:ALA:H	2.22	0.46
2:I:159:PHE:CZ	2:I:275:LEU:HD21	2.50	0.46
2:I:541:LEU:HG	2:I:552:VAL:CG1	2.44	0.46
2:I:1350:ILE:HA	2:I:1350:ILE:HD13	1.73	0.46
2:I:1410:GLY:HA2	2:I:1437:GLY:O	2.15	0.46
2:J:600:VAL:HG13	2:J:601:PRO:N	2.30	0.46
2:J:604:MET:HG3	2:J:627:HIS:O	2.15	0.46
2:J:875:PHE:HE2	2:J:906:LEU:CD2	2.27	0.46
2:J:1207:THR:O	2:J:1215:THR:HA	2.15	0.46
2:J:1462:GLN:O	2:J:1466:VAL:HG23	2.15	0.46
2:J:1812:LEU:HD21	2:J:1857:VAL:HG11	1.97	0.46
2:K:786:GLU:H	2:K:786:GLU:CD	2.23	0.46
2:K:1406:ASN:HB3	2:K:1411:LYS:HG3	1.96	0.46
2:K:2058:VAL:CG1	2:K:2067:ILE:HD12	2.45	0.46
2:L:102:LEU:O	2:L:106:LEU:HG	2.15	0.46
2:L:1061:VAL:HG11	2:L:1066:ILE:HD11	1.97	0.46
2:L:2050:ILE:O	2:L:2050:ILE:HG12	2.14	0.46
1:A:533:SER:HB3	1:A:907:PHE:CE2	2.51	0.46
1:A:533:SER:CA	1:F:579:MET:HE1	2.46	0.46
1:A:577:LEU:CD1	1:A:579:MET:HE2	2.45	0.46
1:A:965:TYR:CZ	1:A:1199:LEU:CD2	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1052:ASP:HB3	1:A:1055:THR:HG23	1.96	0.46
1:A:1553:VAL:HG22	1:A:1604:TYR:O	2.15	0.46
1:A:1564:HIS:C	1:A:1564:HIS:ND1	2.73	0.46
1:A:1591:ASN:C	1:A:1593:ASP:H	2.24	0.46
1:B:1159:LEU:HD12	1:B:1327:ALA:HB3	1.96	0.46
1:B:1493:PHE:HE2	1:B:1509:THR:HG22	1.80	0.46
1:C:994:VAL:HG21	1:C:1291:TYR:CD1	2.50	0.46
1:D:398:VAL:HG22	1:D:710:VAL:HG22	1.96	0.46
1:D:653:LYS:HD3	1:D:742:TYR:CE2	2.49	0.46
1:D:988:VAL:HG12	1:D:990:LEU:HD23	1.98	0.46
1:D:998:GLY:HA3	1:D:1361:VAL:CG1	2.41	0.46
1:D:1565:PRO:CG	1:D:1572:TRP:CZ3	2.95	0.46
1:E:756:ILE:HA	1:E:759:ILE:HD11	1.97	0.46
1:F:41:THR:HG21	2:L:1691:ALA:HB2	1.98	0.46
1:F:1129:ILE:HA	1:F:1139:THR:O	2.15	0.46
1:F:1381:MET:HG2	1:F:1382:THR:N	2.29	0.46
2:G:106:LEU:HD11	2:G:143:GLY:O	2.15	0.46
2:G:347:PRO:HA	2:G:432:PHE:CE1	2.50	0.46
2:G:932:ALA:O	2:G:935:VAL:HG13	2.14	0.46
2:G:1519:THR:OG1	2:G:1521:GLU:HG2	2.14	0.46
2:G:1637:VAL:CG1	2:G:1679:LEU:HD22	2.45	0.46
2:G:1762:MET:HG2	2:G:1779:LYS:NZ	2.29	0.46
2:H:471:ASP:OD1	2:H:493:MET:HE3	2.15	0.46
2:H:740:ILE:H	2:H:740:ILE:HD12	1.80	0.46
2:H:1427:MET:HG3	2:H:1427:MET:O	2.15	0.46
2:H:1745:LEU:HB3	2:H:1799:LEU:HD22	1.96	0.46
2:H:1863:ARG:HB2	2:H:2017:PHE:HE1	1.80	0.46
2:H:1904:VAL:HG22	2:H:1939:LEU:HD22	1.97	0.46
2:I:778:ALA:HB2	2:I:807:PHE:CD2	2.51	0.46
2:I:783:GLY:HA2	2:I:815:ARG:HD3	1.95	0.46
2:I:1156:ASP:CB	2:I:1159:SER:H	2.18	0.46
2:J:192:THR:C	2:J:194:PRO:HD3	2.40	0.46
2:J:388:ASN:HD22	2:J:389:PHE:N	2.12	0.46
2:J:594:MET:HE1	2:J:604:MET:HB3	1.97	0.46
2:J:1305:LEU:H	2:J:1305:LEU:CD1	2.28	0.46
2:J:1305:LEU:HD21	2:J:1365:LYS:HB2	1.98	0.46
2:J:1764:MET:O	2:J:1780:ILE:HG13	2.16	0.46
2:K:70:SER:HB2	2:K:74:GLU:OE2	2.16	0.46
2:K:703:ASN:O	2:K:707:GLN:HG3	2.16	0.46
2:K:818:THR:HG22	2:K:829:LYS:HB3	1.96	0.46
2:K:820:LYS:HB3	2:K:1080:ASP:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1257:VAL:HA	2:K:1258:PRO:HD3	1.70	0.46
2:K:2050:ILE:O	2:K:2050:ILE:HG12	2.14	0.46
2:L:22:ARG:CG	2:L:39:THR:HA	2.42	0.46
2:L:274:GLU:O	2:L:278:ARG:HG2	2.16	0.46
2:L:859:SER:CB	2:L:863:GLU:HG3	2.44	0.46
2:L:859:SER:HB3	2:L:863:GLU:HG3	1.97	0.46
2:L:876:TRP:C	2:L:876:TRP:HD1	2.22	0.46
2:L:1813:MET:HG3	2:L:1814:GLU:N	2.30	0.46
1:A:29:ILE:HD11	2:G:1922:VAL:CA	2.45	0.46
1:A:553:ARG:HH21	1:A:567:ASN:HD21	1.62	0.46
1:B:537:ASN:O	1:B:541:VAL:HG23	2.15	0.46
1:B:902:ASN:C	1:B:904:GLY:H	2.23	0.46
1:B:905:LEU:HD22	1:B:911:LEU:HD21	1.98	0.46
1:C:407:ARG:CZ	1:C:1606:VAL:HG23	2.44	0.46
1:C:1480:ARG:NH2	1:F:1488:SER:O	2.49	0.46
1:C:1696:PHE:O	1:F:1402:THR:HG22	2.15	0.46
1:D:552:ILE:HG21	1:D:566:PHE:CE2	2.50	0.46
1:D:1176:PRO:O	1:D:1180:ILE:HG12	2.15	0.46
1:E:81:TYR:HE1	2:K:1821:MET:HE3	1.77	0.46
1:E:335:LEU:HD12	1:E:335:LEU:O	2.15	0.46
1:E:973:TRP:CD1	1:E:1648:LYS:HD2	2.50	0.46
1:E:1137:GLN:NE2	1:E:1137:GLN:HA	2.30	0.46
1:F:701:ARG:NH1	1:F:1610:ARG:NH2	2.63	0.46
1:F:799:LEU:HD12	1:F:821:LEU:HB3	1.98	0.46
1:F:1170:ALA:HB3	1:F:1188:LEU:HD13	1.98	0.46
1:F:1564:HIS:C	1:F:1564:HIS:ND1	2.73	0.46
2:G:205:ALA:O	2:G:209:GLN:HG3	2.14	0.46
2:G:283:THR:HG23	2:G:470:TYR:O	2.15	0.46
2:G:612:THR:O	2:G:612:THR:HG22	2.15	0.46
2:G:784:GLY:HA3	2:G:786:GLU:OE2	2.15	0.46
2:G:942:MET:CE	2:G:955:LEU:HB3	2.37	0.46
2:G:1160:PHE:CE1	2:G:1164:ILE:HD11	2.50	0.46
2:G:1301:PHE:HB3	2:G:1364:ARG:NH1	2.31	0.46
2:G:1359:LYS:N	2:G:1360:PRO:CD	2.77	0.46
2:G:1631:ARG:HA	2:G:1686:GLU:HB2	1.96	0.46
2:H:276:LEU:HD12	2:H:298:ALA:O	2.15	0.46
2:H:290:VAL:HA	2:H:490:LEU:CD1	2.43	0.46
2:H:388:ASN:HD22	2:H:389:PHE:N	2.13	0.46
2:H:447:ALA:O	2:H:451:ILE:HG13	2.15	0.46
2:H:1156:ASP:HB2	2:H:1159:SER:N	2.20	0.46
2:H:1305:LEU:HD23	2:H:1366:ILE:CG1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1812:LEU:HD21	2:H:1857:VAL:HG11	1.97	0.46
2:I:1324:PHE:HA	2:I:1583:VAL:HG11	1.96	0.46
2:I:1445:THR:HG23	2:I:1498:PHE:HB2	1.97	0.46
2:J:24:LEU:HD12	2:J:37:VAL:CG2	2.39	0.46
2:J:189:ILE:HD13	2:J:259:ALA:HB3	1.97	0.46
2:J:718:PRO:HG2	2:J:741:LEU:CD1	2.45	0.46
2:J:1346:MET:HE3	2:J:1617:ARG:HH21	1.73	0.46
2:J:1361:ILE:HD11	2:J:1433:PHE:CD2	2.51	0.46
2:J:1587:TYR:O	2:J:1588:ASN:C	2.58	0.46
2:J:1863:ARG:HB2	2:J:2017:PHE:HE1	1.80	0.46
2:K:120:HIS:CD2	2:K:137:VAL:CG1	2.97	0.46
2:K:699:ILE:HD12	2:K:699:ILE:N	2.30	0.46
2:K:980:LEU:CD2	2:K:986:LEU:HD21	2.45	0.46
2:K:1749:PHE:CG	2:K:1758:ARG:HB3	2.50	0.46
2:K:1764:MET:HG3	2:K:1781:PHE:HE1	1.79	0.46
2:L:129:ILE:HG12	2:L:131:ALA:HB3	1.98	0.46
2:L:1048:TRP:CD1	2:L:1049:GLN:HG2	2.50	0.46
2:L:1566:LYS:O	2:L:1568:PRO:HD3	2.15	0.46
2:L:1887:ASN:ND2	2:L:1890:ARG:HG3	2.30	0.46
1:A:566:PHE:CE1	1:F:552:ILE:HD11	2.51	0.46
1:A:715:ASN:HD22	1:A:715:ASN:C	2.24	0.46
1:A:850:THR:C	1:A:852:LEU:H	2.22	0.46
1:A:1038:HIS:CE1	1:A:1042:LEU:HG	2.50	0.46
1:A:1603:ASP:HB2	1:A:1604:TYR:CD2	2.51	0.46
1:B:340:LEU:HD22	1:B:351:LEU:HD11	1.98	0.46
1:B:414:TYR:O	1:B:418:ILE:HG13	2.16	0.46
1:B:421:ARG:HH22	1:B:1613:LYS:CG	2.29	0.46
1:B:768:ARG:HA	1:B:772:THR:OG1	2.15	0.46
1:D:486:VAL:CG1	1:D:647:GLY:HA3	2.41	0.46
1:D:574:ILE:HD13	1:D:584:ILE:HB	1.96	0.46
1:D:580:ASN:OD1	1:D:583:GLN:HB2	2.15	0.46
1:D:679:LYS:HG2	1:D:708:GLN:CB	2.38	0.46
1:D:1262:VAL:HG12	1:D:1267:LEU:HD21	1.98	0.46
1:D:1394:PRO:HB3	1:D:1627:PHE:CE2	2.50	0.46
1:E:1544:HIS:CG	1:E:1544:HIS:O	2.68	0.46
1:F:24:MET:HE2	2:L:2043:VAL:HG13	1.96	0.46
1:F:1343:PRO:HA	1:F:1526:SER:HA	1.97	0.46
1:F:1504:ARG:NH2	1:F:1545:LEU:O	2.48	0.46
2:G:120:HIS:CD2	2:G:137:VAL:HG11	2.51	0.46
2:G:279:PHE:HB2	2:G:467:ILE:HD12	1.97	0.46
2:G:788:THR:CG2	2:G:1094:HIS:CE1	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1301:PHE:HD1	2:G:1364:ARG:HG2	1.81	0.46
2:G:1382:MET:HB3	2:G:1382:MET:HE2	1.66	0.46
2:G:1672:LYS:O	2:G:1672:LYS:HG2	2.14	0.46
2:H:378:ILE:HG23	2:H:391:VAL:CG1	2.46	0.46
2:H:857:VAL:HG11	2:H:876:TRP:CD1	2.50	0.46
2:H:1445:THR:HG23	2:H:1498:PHE:HB2	1.97	0.46
2:H:1464:LEU:HD11	2:H:1468:ARG:HD2	1.98	0.46
2:I:1017:LEU:HD21	2:I:1032:PRO:HB2	1.98	0.46
2:I:1692:TYR:O	2:I:1833:PHE:HA	2.15	0.46
2:J:784:GLY:HA3	2:J:786:GLU:OE2	2.16	0.46
2:K:129:ILE:HG12	2:K:131:ALA:HB3	1.97	0.46
2:K:1442:TYR:HA	2:K:1445:THR:HG22	1.97	0.46
2:L:170:TYR:CD2	2:L:507:PHE:HB3	2.50	0.46
2:L:468:PRO:HD3	2:L:479:ARG:HH21	1.77	0.46
2:L:485:ASP:HB2	2:L:488:PRO:HD2	1.91	0.46
2:L:1208:ASN:N	2:L:1209:PRO:HD3	2.31	0.46
2:L:1346:MET:HG2	2:L:1617:ARG:NH2	2.30	0.46
2:L:1468:ARG:NH1	2:L:1468:ARG:CB	2.76	0.46
1:A:536:SER:HB3	1:A:540:LYS:HD2	1.97	0.46
1:A:1414:PRO:HD2	1:E:1473:HIS:CD2	2.50	0.46
1:B:1587:PRO:HA	1:B:1611:SER:OG	2.14	0.46
1:B:1610:ARG:NH1	1:B:1610:ARG:CG	2.58	0.46
1:B:1640:LYS:HG3	1:B:1641:TYR:CD1	2.50	0.46
1:C:726:VAL:HG21	1:C:780:ALA:CB	2.46	0.46
1:C:1001:GLU:C	1:C:1002:ILE:HD12	2.40	0.46
1:C:1004:PRO:HD3	1:C:1572:TRP:CH2	2.51	0.46
1:C:1553:VAL:HG22	1:C:1604:TYR:O	2.14	0.46
1:D:400:ASP:C	1:D:400:ASP:OD1	2.59	0.46
1:D:850:THR:C	1:D:852:LEU:H	2.24	0.46
1:E:414:TYR:O	1:E:418:ILE:HG13	2.15	0.46
1:E:447:PHE:CE1	1:E:451:HIS:NE2	2.84	0.46
1:E:833:TRP:CH2	1:E:839:ILE:HD11	2.49	0.46
1:F:1079:ARG:CG	1:F:1079:ARG:NH1	2.69	0.46
1:F:1525:THR:O	1:F:1526:SER:HB3	2.16	0.46
2:G:911:GLN:HE21	2:G:1065:CYS:H	1.62	0.46
2:H:399:TYR:CE2	2:H:403:LEU:HD11	2.51	0.46
2:H:703:ASN:O	2:H:707:GLN:HG3	2.15	0.46
2:H:741:LEU:O	2:H:741:LEU:HG	2.16	0.46
2:H:788:THR:HG21	2:H:810:CYS:SG	2.55	0.46
2:H:1353:GLY:CA	2:H:1397:THR:HG21	2.45	0.46
2:H:1751:GLY:O	2:H:1755:LYS:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:208:LEU:HB3	2:I:225:LEU:HD13	1.98	0.46
2:I:388:ASN:HD22	2:I:389:PHE:N	2.14	0.46
2:I:485:ASP:CB	2:I:488:PRO:CD	2.89	0.46
2:I:979:LEU:CD2	2:I:999:ALA:HB3	2.46	0.46
2:I:1464:LEU:C	2:I:1464:LEU:HD13	2.40	0.46
2:J:399:TYR:CE2	2:J:403:LEU:HD11	2.49	0.46
2:J:835:ALA:HB3	2:J:1073:ALA:HB1	1.96	0.46
2:J:1141:LYS:CE	2:J:1143:SER:HB2	2.46	0.46
2:J:1339:GLY:HA2	2:L:376:ARG:HE	1.81	0.46
2:J:1353:GLY:CA	2:J:1397:THR:HG21	2.42	0.46
2:J:1499:LYS:CG	2:J:1500:ASN:H	2.29	0.46
2:J:2017:PHE:CE2	2:J:2021:LEU:HD11	2.50	0.46
2:K:193:TYR:O	2:K:197:VAL:HG23	2.16	0.46
2:K:617:PHE:CD1	2:K:822:ALA:HA	2.49	0.46
2:K:857:VAL:HG11	2:K:876:TRP:NE1	2.26	0.46
2:K:930:THR:HG22	2:K:933:GLU:H	1.79	0.46
2:K:1131:ASP:C	2:K:1133:LEU:H	2.23	0.46
2:K:1708:LEU:O	2:K:1708:LEU:HD22	2.16	0.46
2:L:1740:ASN:O	2:L:1742:PRO:HD3	2.16	0.46
2:L:1977:ARG:HD2	2:L:1978:LYS:HE3	1.97	0.46
1:A:501:ASP:HB2	1:A:505:ASN:HB2	1.96	0.46
1:A:552:ILE:HG21	1:A:566:PHE:CE2	2.50	0.46
1:A:1364:THR:CG2	1:A:1366:GLN:HB2	2.46	0.46
1:A:1467:LEU:O	1:A:1471:THR:HG23	2.16	0.46
1:B:673:LEU:HD21	1:B:884:MET:CE	2.45	0.46
1:B:808:PHE:HE2	1:B:915:MET:HE2	1.80	0.46
1:B:994:VAL:HG21	1:B:1291:TYR:CD1	2.51	0.46
1:C:628:TYR:HD1	1:C:628:TYR:C	2.23	0.46
1:C:1504:ARG:NH2	1:C:1545:LEU:O	2.48	0.46
1:C:1672:GLY:HA3	1:C:1678:LEU:HD23	1.97	0.46
1:D:444:LEU:HD22	1:D:448:MET:CG	2.46	0.46
1:D:670:LEU:CD1	1:D:680:VAL:HG21	2.46	0.46
1:D:716:GLN:HB3	1:D:769:ILE:HG23	1.97	0.46
1:D:871:PHE:N	1:D:871:PHE:CD1	2.82	0.46
1:D:1330:GLU:OE2	1:D:1342:ARG:NH2	2.48	0.46
1:D:1467:LEU:O	1:D:1471:THR:HG23	2.16	0.46
1:E:530:GLY:O	1:E:611:THR:HG21	2.14	0.46
1:E:1425:LEU:CD2	1:E:1429:ARG:HH21	2.18	0.46
1:E:1581:LEU:HD13	1:E:1638:HIS:HA	1.97	0.46
1:F:1209:PHE:CZ	1:F:1301:VAL:HG21	2.51	0.46
1:F:1587:PRO:HA	1:F:1611:SER:OG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:80:ILE:HG12	2:G:105:ILE:CG2	2.46	0.46
2:G:930:THR:HG22	2:G:933:GLU:H	1.77	0.46
2:G:930:THR:HA	2:G:1007:LEU:HA	1.97	0.46
2:G:1048:TRP:NE1	2:G:1049:GLN:HG2	2.31	0.46
2:G:1632:VAL:HB	2:G:1685:VAL:HG22	1.98	0.46
2:G:1868:GLN:O	2:G:1873:ARG:NH2	2.49	0.46
2:H:291:VAL:O	2:H:295:ILE:HB	2.16	0.46
2:H:918:ASN:HB3	2:H:924:VAL:HG21	1.97	0.46
2:H:1238:GLY:O	2:H:1239:ASP:OD1	2.33	0.46
2:I:1028:VAL:HA	2:I:1029:PRO:HD3	1.74	0.46
2:J:320:LEU:O	2:J:324:GLN:HG3	2.15	0.46
2:J:625:GLY:C	2:J:656:ARG:NH2	2.74	0.46
2:J:867:LYS:HD3	2:J:1065:CYS:SG	2.56	0.46
2:J:1238:GLY:O	2:J:1239:ASP:OD1	2.34	0.46
2:J:2062:THR:HG22	2:J:2064:SER:N	2.31	0.46
2:K:279:PHE:HB2	2:K:467:ILE:HD12	1.98	0.46
2:K:1146:LEU:HD11	2:K:1160:PHE:CE2	2.51	0.46
2:K:1572:ARG:HG2	2:K:1647:ASP:O	2.16	0.46
2:K:1653:LEU:HD21	2:K:1667:VAL:HG13	1.97	0.46
2:K:1932:ASP:OD2	2:K:1934:ARG:HD2	2.15	0.46
2:K:1938:THR:HG22	2:K:1977:ARG:HA	1.98	0.46
2:L:172:ILE:HG22	2:L:514:VAL:O	2.16	0.46
2:L:186:LEU:CG	2:L:256:VAL:HG22	2.45	0.46
2:L:609:THR:HG23	3:L:2101:FMN:O4	2.16	0.46
2:L:665:VAL:C	2:L:667:PRO:HD3	2.41	0.46
2:L:960:GLY:O	2:L:963:ILE:HB	2.16	0.46
2:L:1266:HIS:CE1	2:L:1275:ARG:CD	2.94	0.46
1:A:533:SER:C	1:F:579:MET:HE1	2.41	0.46
1:A:566:PHE:HE1	1:F:552:ILE:HD11	1.80	0.46
1:A:636:TYR:HB2	1:A:888:ILE:HD11	1.96	0.46
1:A:1078:ILE:HB	1:A:1338:GLY:HA3	1.97	0.46
1:A:1273:ILE:O	1:A:1273:ILE:HG13	2.16	0.46
1:B:501:ASP:HB2	1:B:505:ASN:HB2	1.96	0.46
1:B:850:THR:C	1:B:852:LEU:H	2.24	0.46
1:B:1294:ILE:HD11	1:B:1302:CYS:HB3	1.98	0.46
1:C:27:ARG:HG3	2:I:2045:ALA:HB2	1.97	0.46
1:C:349:MET:O	1:C:349:MET:HG3	2.16	0.46
1:C:406:ALA:HB2	1:C:439:ARG:HD2	1.98	0.46
1:C:421:ARG:HH22	1:C:1613:LYS:HB3	1.81	0.46
1:C:683:THR:HG21	1:C:725:LEU:HD11	1.97	0.46
1:D:553:ARG:C	1:D:555:GLN:H	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:617:LEU:HD11	1:D:636:TYR:HB2	1.98	0.46
1:D:623:PHE:N	1:D:623:PHE:HD2	2.14	0.46
1:D:636:TYR:HB2	1:D:888:ILE:HD11	1.96	0.46
1:D:689:ARG:CD	1:D:1339:GLU:CD	2.79	0.46
1:D:1514:ILE:H	1:D:1514:ILE:HG13	1.20	0.46
1:F:767:HIS:CG	1:F:813:LEU:HD12	2.51	0.46
1:F:1149:LEU:HD23	1:F:1149:LEU:HA	1.71	0.46
2:G:113:PHE:N	2:G:113:PHE:CD1	2.84	0.46
2:G:590:VAL:CG2	2:G:1091:HIS:CD2	2.98	0.46
2:G:657:GLY:HA3	2:G:688:GLU:HG2	1.98	0.46
2:G:1009:ASN:HD22	2:G:1010:ALA:N	2.14	0.46
2:G:1507:VAL:O	2:G:1531:GLU:HA	2.16	0.46
2:G:1723:ASP:CG	2:G:1735:ILE:HG13	2.41	0.46
2:H:617:PHE:CD1	2:H:822:ALA:HA	2.50	0.46
2:H:827:GLN:C	2:H:1061:VAL:HG21	2.40	0.46
2:H:868:LEU:HD23	2:H:1066:ILE:HD12	1.97	0.46
2:H:1048:TRP:CE2	2:H:1049:GLN:HG2	2.50	0.46
2:H:1442:TYR:CG	2:H:1499:LYS:O	2.68	0.46
2:H:1740:ASN:O	2:H:1742:PRO:HD3	2.16	0.46
2:H:1910:VAL:HG11	2:H:1973:ILE:HG21	1.97	0.46
2:H:1933:LEU:O	2:H:1989:LEU:HD11	2.16	0.46
2:H:2053:GLU:H	2:H:2053:GLU:HG3	1.47	0.46
2:I:35:PHE:CE1	2:I:105:ILE:HD13	2.50	0.46
2:I:582:LYS:HA	2:I:587:GLN:O	2.15	0.46
2:I:930:THR:HG22	2:I:933:GLU:H	1.79	0.46
2:I:1103:TYR:O	2:I:1106:LYS:HB2	2.14	0.46
2:I:1160:PHE:O	2:I:1164:ILE:HG13	2.15	0.46
2:I:1204:VAL:HA	2:I:1218:SER:O	2.16	0.46
2:I:1238:GLY:O	2:I:1239:ASP:OD1	2.33	0.46
2:I:1301:PHE:HB3	2:I:1364:ARG:HH11	1.77	0.46
2:I:1626:GLU:O	2:I:1627:ASN:HB2	2.15	0.46
2:I:1896:THR:HG22	2:I:1898:GLN:N	2.23	0.46
2:I:2005:PHE:HA	2:I:2010:LEU:CD1	2.31	0.46
2:J:271:GLU:HG2	2:J:301:TRP:NE1	2.30	0.46
2:J:916:GLY:HA2	2:J:929:MET:HE1	1.98	0.46
2:J:1146:LEU:O	2:J:1201:GLY:HA2	2.16	0.46
2:J:1412:MET:HE3	2:J:1412:MET:HB3	1.86	0.46
2:K:276:LEU:HD13	2:K:466:VAL:HG21	1.97	0.46
2:K:664:TYR:CD1	2:K:670:MET:HE1	2.51	0.46
2:K:741:LEU:HG	2:K:741:LEU:O	2.15	0.46
2:K:1207:THR:O	2:K:1215:THR:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1764:MET:O	2:K:1780:ILE:HG13	2.16	0.46
2:K:1812:LEU:HD21	2:K:1857:VAL:HG11	1.97	0.46
2:K:2062:THR:HG22	2:K:2063:GLY:N	2.30	0.46
2:L:196:PHE:HD2	2:L:266:LYS:CB	2.28	0.46
2:L:298:ALA:HB2	2:L:304:PHE:HA	1.97	0.46
2:L:652:ILE:HG23	2:L:653:PRO:HD2	1.97	0.46
2:L:663:ILE:H	2:L:663:ILE:CD1	2.18	0.46
2:L:746:GLY:HA3	2:L:843:TRP:CZ2	2.51	0.46
2:L:1918:VAL:HG13	2:L:2006:HIS:CB	2.42	0.46
2:L:1932:ASP:OD2	2:L:1934:ARG:HD2	2.15	0.46
1:A:329:THR:O	1:A:332:GLN:HB2	2.16	0.46
1:A:427:ARG:HH21	1:A:518:LYS:HG2	1.81	0.46
1:A:1220:ASN:HB3	1:A:1273:ILE:HG22	1.97	0.46
1:A:1280:CYS:HA	1:A:1566:LYS:O	2.16	0.46
1:A:1703:VAL:HG23	1:A:1713:PHE:CE1	2.51	0.46
1:B:1005:TRP:HE1	1:B:1561:LEU:CD2	2.22	0.46
1:B:1156:PHE:CZ	1:B:1316:TYR:HA	2.51	0.46
1:D:427:ARG:CG	1:D:427:ARG:NH1	2.50	0.46
1:D:875:GLU:O	1:D:878:PHE:HB3	2.15	0.46
1:D:999:LEU:HD11	1:D:1575:ASN:CB	2.45	0.46
1:D:1001:GLU:C	1:D:1002:ILE:HD12	2.41	0.46
1:D:1509:THR:HG1	1:D:1510:TRP:CD1	2.33	0.46
1:D:1640:LYS:HG3	1:D:1641:TYR:CD1	2.51	0.46
1:E:35:ILE:HD13	2:K:1691:ALA:HB1	1.97	0.46
1:E:421:ARG:HH22	1:E:1613:LYS:CB	2.28	0.46
1:E:486:VAL:HG22	1:E:648:LEU:C	2.40	0.46
1:E:557:ARG:HG3	1:E:557:ARG:NH1	1.99	0.46
1:E:921:GLU:HG3	1:E:922:ILE:H	1.81	0.46
1:F:874:GLN:H	1:F:874:GLN:HG2	1.40	0.46
1:F:1055:THR:C	1:F:1057:GLU:H	2.24	0.46
2:G:942:MET:O	2:G:951:ILE:HG13	2.16	0.46
2:G:1141:LYS:CE	2:G:1143:SER:HB2	2.46	0.46
2:H:910:PHE:O	2:H:1063:ARG:HD3	2.16	0.46
2:H:1452:VAL:O	2:H:1454:MET:HG3	2.16	0.46
2:I:26:LEU:HD23	2:I:26:LEU:HA	1.83	0.46
2:I:119:VAL:HG21	2:I:140:TYR:CD2	2.51	0.46
2:I:192:THR:C	2:I:194:PRO:HD3	2.40	0.46
2:I:279:PHE:HB2	2:I:467:ILE:HD12	1.97	0.46
2:I:1504:TYR:HD2	2:I:1507:VAL:HG11	1.81	0.46
2:J:471:ASP:OD1	2:J:493:MET:HE3	2.15	0.46
2:J:730:ILE:O	2:J:733:ALA:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1261:PHE:HA	2:J:1284:ARG:NH1	2.31	0.46
2:K:274:GLU:O	2:K:278:ARG:HG2	2.15	0.46
2:K:1452:VAL:O	2:K:1454:MET:HG3	2.16	0.46
2:K:1483:LEU:CD2	2:K:1525:VAL:HG11	2.45	0.46
2:K:1805:PHE:O	2:K:1808:PRO:HD2	2.16	0.46
2:K:1832:THR:HG21	2:K:2040:ILE:HD11	1.98	0.46
2:L:205:ALA:O	2:L:209:GLN:HG3	2.16	0.46
2:L:289:ILE:HD13	2:L:493:MET:HE1	1.96	0.46
2:L:1131:ASP:C	2:L:1133:LEU:H	2.24	0.46
2:L:1156:ASP:CB	2:L:1159:SER:H	2.20	0.46
2:L:1249:GLY:HA2	2:L:1256:VAL:HG22	1.97	0.46
2:L:1626:GLU:O	2:L:1627:ASN:HB2	2.15	0.46
1:A:875:GLU:O	1:A:878:PHE:HB3	2.15	0.46
1:A:987:MET:HE2	1:A:1418:ILE:HG13	1.98	0.46
1:A:998:GLY:HA3	1:A:1361:VAL:CG1	2.41	0.46
1:B:49:PRO:HG3	2:H:1813:MET:HE3	1.98	0.46
1:B:400:ASP:C	1:B:400:ASP:OD1	2.58	0.46
1:B:648:LEU:HD12	1:B:649:THR:H	1.81	0.46
1:B:843:VAL:O	1:B:843:VAL:HG22	2.15	0.46
1:B:883:LEU:HA	1:B:888:ILE:HD12	1.98	0.46
1:B:959:PRO:HB3	2:H:972:SER:HA	1.97	0.46
1:B:998:GLY:HA3	1:B:1361:VAL:CG1	2.43	0.46
1:B:1078:ILE:HG23	1:B:1352:MET:HE3	1.98	0.46
1:C:538:ARG:HD2	1:C:542:GLN:NE2	2.30	0.46
1:C:1176:PRO:O	1:C:1180:ILE:HG12	2.15	0.46
1:C:1640:LYS:HG3	1:C:1641:TYR:CD1	2.50	0.46
1:D:1647:ASP:C	1:D:1649:ALA:N	2.72	0.46
1:F:17:LEU:HD22	2:L:2041:PRO:HB3	1.98	0.46
1:F:535:TYR:HD2	1:F:540:LYS:CG	2.28	0.46
1:F:962:ASN:HB3	2:L:969:ARG:CD	2.46	0.46
2:G:333:PRO:HB3	2:H:1623:TRP:CH2	2.50	0.46
2:G:625:GLY:C	2:G:656:ARG:NH2	2.74	0.46
2:G:934:VAL:O	2:G:938:MET:HG3	2.16	0.46
2:G:980:LEU:CD2	2:G:986:LEU:HD21	2.46	0.46
2:G:1257:VAL:HA	2:G:1258:PRO:HD3	1.73	0.46
2:G:1424:LYS:HA	2:G:1425:PRO:HD3	1.85	0.46
2:G:1764:MET:HG3	2:G:1781:PHE:HE1	1.80	0.46
2:H:182:TYR:CD1	2:H:183:PHE:N	2.84	0.46
2:H:544:ALA:O	2:H:554:TYR:HB3	2.16	0.46
2:H:859:SER:HB3	2:H:863:GLU:HG3	1.98	0.46
2:H:1074:LYS:HE3	2:H:1075:TYR:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1261:PHE:HE2	2:H:1285:ILE:HD11	1.81	0.46
2:H:1318:ALA:HA	2:H:1391:VAL:CG2	2.44	0.46
2:I:690:LEU:HD22	2:I:691:THR:H	1.80	0.46
2:I:879:LEU:HB3	2:I:884:PHE:CE1	2.51	0.46
2:I:1208:ASN:N	2:I:1209:PRO:HD3	2.31	0.46
2:J:859:SER:HB3	2:J:863:GLU:HG3	1.97	0.46
2:J:866:HIS:HB3	2:J:1068:GLN:O	2.16	0.46
2:J:1266:HIS:C	2:J:1268:GLU:N	2.74	0.46
2:J:1442:TYR:HA	2:J:1445:THR:CG2	2.39	0.46
2:J:1692:TYR:O	2:J:1833:PHE:HA	2.16	0.46
2:J:1729:ASN:O	2:J:1757:ILE:HG23	2.16	0.46
2:K:320:LEU:O	2:K:324:GLN:HG3	2.16	0.46
2:K:888:ARG:HD3	2:K:891:ARG:NH1	2.31	0.46
2:K:1189:THR:O	2:K:1191:PRO:HD3	2.16	0.46
2:K:2053:GLU:H	2:K:2053:GLU:HG3	1.49	0.46
2:L:357:THR:HG22	2:L:359:SER:H	1.80	0.46
2:L:616:ASP:OD1	2:L:616:ASP:N	2.48	0.46
1:A:349:MET:HE2	1:A:351:LEU:HD23	1.98	0.46
1:A:450:TYR:CD1	1:A:1551:ASN:HB2	2.51	0.46
1:A:1149:LEU:CB	1:E:1149:LEU:HB2	2.44	0.46
1:A:1159:LEU:HD12	1:A:1327:ALA:HB3	1.98	0.46
1:A:1386:THR:HG22	1:A:1387:ASP:N	2.31	0.46
1:A:1401:LEU:O	1:A:1401:LEU:HD22	2.16	0.46
1:A:1670:HIS:ND1	2:G:1009:ASN:ND2	2.64	0.46
1:B:21:GLN:HE22	2:H:1841:TYR:HE1	1.64	0.46
1:B:43:ARG:NH1	2:H:1687:GLN:NE2	2.65	0.46
1:B:754:ARG:HH21	1:B:762:LYS:HD3	1.81	0.46
1:B:1288:ASP:O	1:B:1291:TYR:HB3	2.16	0.46
1:C:340:LEU:HD22	1:C:351:LEU:HD11	1.97	0.46
1:C:749:ILE:CD1	1:C:769:ILE:HD12	2.46	0.46
1:C:1090:ASP:OD1	1:C:1092:ASN:HB2	2.16	0.46
1:D:605:ARG:CB	1:D:606:PRO:CD	2.87	0.46
1:D:612:ILE:HG23	1:D:613:PRO:HD2	1.98	0.46
1:D:1287:LEU:HA	1:D:1304:VAL:HG11	1.97	0.46
1:D:1359:VAL:HG12	1:D:1360:GLN:N	2.30	0.46
1:D:1386:THR:HG22	1:D:1387:ASP:N	2.31	0.46
1:E:869:ARG:O	1:E:903:GLY:HA3	2.15	0.46
1:F:28:TRP:CE2	1:F:53:LEU:HD22	2.51	0.46
1:F:901:LEU:HD23	1:F:901:LEU:N	2.31	0.46
1:F:1137:GLN:NE2	1:F:1137:GLN:HA	2.31	0.46
2:G:314:LEU:O	2:G:318:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:465:LEU:HB2	2:G:479:ARG:HG2	1.97	0.46
2:G:472:THR:HB	2:G:493:MET:HE2	1.97	0.46
2:G:541:LEU:HG	2:G:552:VAL:CG1	2.45	0.46
2:G:718:PRO:HG2	2:G:741:LEU:CD1	2.46	0.46
2:G:731:ALA:CB	2:G:739:ILE:HD12	2.46	0.46
2:G:798:THR:HA	2:G:802:TYR:O	2.16	0.46
2:G:1375:HIS:CE1	2:G:1610:MET:HG2	2.51	0.46
2:G:1910:VAL:CG1	2:G:1973:ILE:HG21	2.46	0.46
2:H:605:VAL:HB	2:H:628:ILE:CG1	2.41	0.46
2:H:613:VAL:N	2:H:614:PRO:CD	2.79	0.46
2:H:737:PHE:HA	2:H:738:PRO:HD3	1.79	0.46
2:H:1975:GLU:O	2:H:1979:GLN:HG3	2.16	0.46
2:I:205:ALA:O	2:I:209:GLN:HG3	2.16	0.46
2:I:1266:HIS:CE1	2:I:1275:ARG:CD	2.94	0.46
2:I:1305:LEU:H	2:I:1305:LEU:CD1	2.29	0.46
2:I:1314:GLU:O	2:I:1394:VAL:HA	2.16	0.46
2:I:1316:VAL:HG13	2:I:1348:PHE:HE2	1.81	0.46
2:I:1442:TYR:O	2:I:1445:THR:HG22	2.16	0.46
2:I:1602:LEU:HD22	2:I:1606:ILE:HD11	1.98	0.46
2:I:1616:VAL:O	2:I:1620:VAL:HG23	2.15	0.46
2:I:1903:VAL:O	2:I:1907:ILE:HG13	2.16	0.46
2:J:186:LEU:CG	2:J:256:VAL:HG22	2.46	0.46
2:J:204:ILE:HG21	2:J:312:VAL:HG21	1.98	0.46
2:J:783:GLY:CA	2:J:815:ARG:HD3	2.46	0.46
2:J:884:PHE:HE2	2:J:1039:GLU:CA	2.29	0.46
2:J:942:MET:O	2:J:951:ILE:HG13	2.16	0.46
2:J:1251:THR:HG22	2:J:1292:VAL:HG13	1.97	0.46
2:J:1261:PHE:HE2	2:J:1285:ILE:HD11	1.81	0.46
2:K:356:LEU:O	2:K:387:ARG:HA	2.16	0.46
2:K:420:PRO:HB2	2:K:423:GLN:HB2	1.97	0.46
2:K:478:LEU:HD22	2:K:481:LEU:HD11	1.99	0.46
2:K:676:LEU:HD23	2:K:679:ARG:NH2	2.30	0.46
2:K:856:THR:HG22	2:K:865:ILE:O	2.15	0.46
2:K:995:ARG:O	2:K:998:ALA:HB3	2.15	0.46
2:K:1330:ASN:HD22	2:K:1618:SER:CB	2.29	0.46
2:K:1977:ARG:HD2	2:K:1978:LYS:HE3	1.98	0.46
2:K:2017:PHE:HE2	2:K:2021:LEU:HD11	1.80	0.46
2:L:342:ASN:HB2	2:L:406:ARG:NH2	2.31	0.46
1:A:47:ILE:HD12	2:G:1818:PHE:HD1	1.81	0.45
1:A:1534:GLU:HG2	1:A:1625:PHE:HE1	1.80	0.45
1:B:1321:MET:HE1	1:D:1251:GLN:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:715:ASN:HD22	1:C:715:ASN:C	2.24	0.45
1:C:1525:THR:O	1:C:1526:SER:HB3	2.16	0.45
1:C:1564:HIS:ND1	1:C:1564:HIS:C	2.73	0.45
1:C:1706:GLU:HB2	1:C:1710:GLU:O	2.15	0.45
1:D:628:TYR:HD1	1:D:628:TYR:C	2.23	0.45
1:D:755:GLU:C	1:D:757:ASP:N	2.71	0.45
1:D:1313:GLU:H	1:D:1313:GLU:HG2	1.48	0.45
1:D:1427:LEU:HD13	1:D:1427:LEU:C	2.41	0.45
1:E:23:ALA:HA	2:K:2007:SER:O	2.15	0.45
1:E:689:ARG:CD	1:E:1339:GLU:HG2	2.47	0.45
1:E:1055:THR:C	1:E:1057:GLU:H	2.25	0.45
1:E:1426:GLU:HA	1:E:1429:ARG:HG3	1.99	0.45
1:E:1638:HIS:ND1	1:E:1639:PRO:CD	2.79	0.45
1:F:1475:GLU:HB3	1:F:1479:ARG:NH2	2.31	0.45
2:G:605:VAL:HB	2:G:628:ILE:CG1	2.43	0.45
2:G:652:ILE:CG2	2:G:656:ARG:HB2	2.46	0.45
2:G:765:TYR:CD1	2:G:805:MET:HE3	2.51	0.45
2:G:1451:GLU:HG3	2:G:1541:ILE:HD11	1.96	0.45
2:G:1749:PHE:CG	2:G:1758:ARG:HB3	2.51	0.45
2:G:1903:VAL:O	2:G:1907:ILE:HG13	2.16	0.45
2:G:2017:PHE:CE2	2:G:2021:LEU:HD11	2.51	0.45
2:H:421:PHE:HB3	2:H:844:GLU:OE2	2.16	0.45
2:I:73:VAL:HA	2:I:113:PHE:HE2	1.80	0.45
2:I:276:LEU:HD11	2:I:296:ALA:HA	1.98	0.45
2:I:1587:TYR:O	2:I:1588:ASN:C	2.59	0.45
2:I:1662:ARG:HG2	2:I:1686:GLU:HG2	1.98	0.45
2:I:2038:LYS:HA	2:I:2038:LYS:HD3	1.74	0.45
2:J:595:SER:HB2	2:J:600:VAL:O	2.16	0.45
2:J:652:ILE:CG2	2:J:656:ARG:HB2	2.46	0.45
2:J:771:CYS:HB3	2:J:774:ILE:CD1	2.44	0.45
2:J:776:LEU:HG	2:J:807:PHE:CD2	2.51	0.45
2:J:930:THR:HA	2:J:1007:LEU:HA	1.97	0.45
2:J:1017:LEU:HD21	2:J:1032:PRO:HB2	1.97	0.45
2:J:1130:ILE:HD12	2:J:1133:LEU:HD22	1.98	0.45
2:J:1131:ASP:C	2:J:1133:LEU:H	2.24	0.45
2:J:1402:ASN:O	2:J:1403:ALA:HB2	2.15	0.45
2:K:350:MET:SD	2:K:392:THR:CG2	3.04	0.45
2:K:617:PHE:HE2	2:K:628:ILE:HD11	1.81	0.45
2:K:798:THR:HA	2:K:802:TYR:O	2.15	0.45
2:K:1178:THR:HG22	2:K:1180:VAL:H	1.81	0.45
2:L:37:VAL:HG11	2:L:42:HIS:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:192:THR:C	2:L:194:PRO:HD3	2.41	0.45
2:L:1120:ILE:HD11	2:L:1167:ASN:O	2.15	0.45
2:L:1123:ALA:O	2:L:1126:GLU:OE2	2.33	0.45
1:A:1106:LEU:HD13	1:A:1142:LEU:HD13	1.98	0.45
1:B:427:ARG:CG	1:B:427:ARG:NH1	2.48	0.45
1:B:557:ARG:HH11	1:E:558:LEU:HA	1.80	0.45
1:B:1426:GLU:HA	1:B:1429:ARG:HG3	1.98	0.45
1:C:35:ILE:HD13	2:I:1691:ALA:HB1	1.97	0.45
1:C:400:ASP:C	1:C:400:ASP:OD1	2.59	0.45
1:C:501:ASP:HB2	1:C:505:ASN:HB2	1.98	0.45
1:C:743:VAL:HG12	1:C:745:PRO:HG3	1.99	0.45
1:C:948:HIS:O	1:C:952:TYR:HD2	1.99	0.45
1:C:956:ILE:HG23	2:I:975:GLY:C	2.41	0.45
1:C:1001:GLU:O	1:C:1002:ILE:HD12	2.16	0.45
1:C:1287:LEU:HA	1:C:1304:VAL:HG11	1.99	0.45
1:D:743:VAL:O	1:D:745:PRO:HD3	2.16	0.45
1:E:655:ALA:HB3	1:E:680:VAL:HG12	1.97	0.45
1:E:655:ALA:O	1:E:680:VAL:HA	2.16	0.45
1:E:1019:LYS:HB2	1:E:1019:LYS:HE3	1.70	0.45
1:E:1107:GLU:HA	1:E:1108:PRO:HD3	1.77	0.45
1:F:340:LEU:HD22	1:F:351:LEU:HD11	1.98	0.45
1:F:427:ARG:O	1:F:430:VAL:HB	2.15	0.45
1:F:653:LYS:HD3	1:F:742:TYR:CE2	2.52	0.45
1:F:998:GLY:HA3	1:F:1361:VAL:CG1	2.43	0.45
2:G:460:ILE:HA	2:G:461:PRO:HD3	1.80	0.45
2:G:608:MET:HA	3:G:2101:FMN:N5	2.31	0.45
2:G:731:ALA:HA	2:G:739:ILE:HD12	1.97	0.45
2:G:746:GLY:HA3	2:G:843:TRP:CZ2	2.51	0.45
2:G:910:PHE:O	2:G:1063:ARG:HD3	2.16	0.45
2:G:1406:ASN:HB3	2:G:1411:LYS:HG3	1.98	0.45
2:G:1622:THR:O	2:G:1626:GLU:HA	2.16	0.45
2:H:610:PRO:O	2:H:613:VAL:HG12	2.17	0.45
2:H:665:VAL:O	2:H:665:VAL:HG12	2.17	0.45
2:H:685:VAL:HA	2:H:686:PRO:HD3	1.65	0.45
2:H:957:LYS:HE2	2:H:1022:ARG:HH22	1.82	0.45
2:H:980:LEU:HD21	2:H:986:LEU:HD21	1.97	0.45
2:H:1017:LEU:O	2:H:1021:GLN:HG3	2.15	0.45
2:I:1250:ARG:CD	2:I:1250:ARG:H	2.28	0.45
2:I:1871:VAL:HG23	2:I:2003:VAL:HG13	1.97	0.45
2:J:80:ILE:HG12	2:J:105:ILE:HG22	1.97	0.45
2:J:1199:THR:HB	2:J:1202:MET:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1266:HIS:CD2	2:J:1266:HIS:N	2.84	0.45
2:J:1588:ASN:OD1	2:J:1589:PRO:HD2	2.16	0.45
2:J:1904:VAL:HG22	2:J:1939:LEU:CD2	2.46	0.45
2:K:182:TYR:CD1	2:K:182:TYR:C	2.95	0.45
2:K:350:MET:HG3	2:K:435:ILE:HG21	1.99	0.45
2:K:792:LEU:O	2:K:792:LEU:HD12	2.16	0.45
2:K:827:GLN:C	2:K:1061:VAL:HG21	2.41	0.45
2:K:1316:VAL:HG13	2:K:1348:PHE:HE2	1.81	0.45
2:K:1426:VAL:HG12	2:K:1427:MET:HG2	1.98	0.45
2:K:2062:THR:HG22	2:K:2064:SER:N	2.31	0.45
2:L:1250:ARG:CD	2:L:1250:ARG:H	2.29	0.45
2:L:1975:GLU:O	2:L:1979:GLN:HG3	2.16	0.45
1:A:30:GLU:H	1:A:30:GLU:HG3	1.51	0.45
1:A:827:ARG:NE	1:F:816:GLU:OE2	2.46	0.45
1:A:1055:THR:C	1:A:1057:GLU:H	2.23	0.45
1:B:450:TYR:C	1:B:450:TYR:CD2	2.94	0.45
1:B:1504:ARG:NH2	1:B:1545:LEU:O	2.49	0.45
1:C:447:PHE:HE1	1:C:451:HIS:HE2	1.63	0.45
1:C:859:VAL:HG22	1:C:918:LEU:HB3	1.99	0.45
1:C:1301:VAL:HG23	1:C:1363:MET:HG3	1.99	0.45
1:C:1330:GLU:CG	1:C:1333:ARG:NH1	2.80	0.45
1:D:689:ARG:NH2	1:D:1591:ASN:HD21	2.13	0.45
1:D:1137:GLN:NE2	1:D:1137:GLN:HA	2.30	0.45
1:D:1177:GLU:O	1:D:1180:ILE:HB	2.16	0.45
1:E:617:LEU:HD11	1:E:636:TYR:HB2	1.98	0.45
1:E:626:TRP:CZ3	1:E:898:PHE:HB2	2.51	0.45
1:E:1514:ILE:H	1:E:1514:ILE:HG13	1.23	0.45
1:F:349:MET:HG3	1:F:349:MET:O	2.16	0.45
1:F:921:GLU:HG3	1:F:922:ILE:H	1.81	0.45
1:F:929:ARG:O	1:F:933:ILE:HG13	2.16	0.45
1:F:1560:TYR:CE2	1:F:1589:ASN:HA	2.51	0.45
2:G:1099:LEU:HD12	2:G:1103:TYR:CB	2.47	0.45
2:G:1504:TYR:HD2	2:G:1507:VAL:HG11	1.81	0.45
2:G:1588:ASN:OD1	2:G:1589:PRO:HD2	2.16	0.45
2:H:274:GLU:O	2:H:278:ARG:HG2	2.16	0.45
2:H:613:VAL:N	2:H:614:PRO:HD3	2.32	0.45
2:H:625:GLY:C	2:H:656:ARG:NH2	2.75	0.45
2:I:37:VAL:HG11	2:I:42:HIS:HA	1.98	0.45
2:I:580:LEU:CD2	2:I:1095:ILE:HG22	2.46	0.45
2:I:746:GLY:HA3	2:I:843:TRP:CZ2	2.52	0.45
2:I:911:GLN:HE21	2:I:1064:THR:HG23	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1266:HIS:C	2:I:1268:GLU:N	2.75	0.45
2:I:1276:GLU:HB3	2:I:1278:MET:HE2	1.98	0.45
2:I:1499:LYS:CG	2:I:1500:ASN:H	2.28	0.45
2:I:1944:ASN:HA	2:I:1993:PHE:CE1	2.52	0.45
2:J:174:GLY:H	2:J:517:GLY:CA	2.24	0.45
2:J:276:LEU:HD13	2:J:466:VAL:HG21	1.99	0.45
2:J:321:ARG:HE	2:J:450:HIS:HB3	1.81	0.45
2:J:609:THR:CB	2:J:610:PRO:HD3	2.47	0.45
2:J:930:THR:HG22	2:J:933:GLU:H	1.80	0.45
2:J:1074:LYS:HE3	2:J:1075:TYR:CE1	2.51	0.45
2:J:1348:PHE:O	2:J:1351:VAL:HG12	2.15	0.45
2:K:197:VAL:O	2:K:200:LEU:HD23	2.16	0.45
2:K:652:ILE:HG23	2:K:653:PRO:HD2	1.99	0.45
2:K:825:SER:CB	2:K:1053:ILE:HG13	2.46	0.45
2:K:866:HIS:HB3	2:K:1068:GLN:O	2.16	0.45
2:K:1410:GLY:HA2	2:K:1437:GLY:O	2.17	0.45
2:K:1445:THR:HG23	2:K:1498:PHE:HB2	1.98	0.45
2:K:1896:THR:CG2	2:K:1897:GLU:N	2.78	0.45
2:K:1977:ARG:CD	2:K:1978:LYS:HE3	2.46	0.45
2:L:663:ILE:HD12	2:L:663:ILE:N	2.30	0.45
2:L:1445:THR:HG23	2:L:1498:PHE:HB2	1.98	0.45
1:A:449:GLN:O	1:A:452:ILE:HG22	2.17	0.45
1:A:498:THR:HG22	1:A:508:TYR:CD1	2.51	0.45
1:A:1001:GLU:C	1:A:1002:ILE:HD12	2.41	0.45
1:A:1071:TYR:C	1:A:1071:TYR:HD2	2.24	0.45
1:A:1149:LEU:HD12	1:E:1097:LEU:CD1	2.47	0.45
1:A:1496:ARG:NH2	1:E:1297:GLY:HA2	2.30	0.45
1:B:28:TRP:CE2	1:B:53:LEU:HD22	2.52	0.45
1:B:444:LEU:HD22	1:B:448:MET:HG2	1.97	0.45
1:B:653:LYS:HD3	1:B:742:TYR:CE2	2.51	0.45
1:B:1042:LEU:HD23	1:B:1042:LEU:HA	1.76	0.45
1:B:1317:GLU:CG	1:D:1250:LEU:HB2	2.41	0.45
1:C:36:LEU:O	1:C:76:ARG:NH2	2.49	0.45
1:C:626:TRP:CZ3	1:C:898:PHE:HB2	2.52	0.45
1:C:1037:ASN:HD21	2:I:1011:GLN:HG2	1.80	0.45
1:C:1055:THR:OG1	1:C:1057:GLU:HG2	2.17	0.45
1:D:427:ARG:O	1:D:430:VAL:HB	2.17	0.45
1:D:490:VAL:HG12	1:D:490:VAL:O	2.17	0.45
1:D:657:MET:HE2	1:D:657:MET:HB3	1.87	0.45
1:D:1086:PHE:CZ	1:D:1310:PHE:HD2	2.34	0.45
1:D:1586:VAL:CG2	1:D:1617:ILE:HD11	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:612:ILE:HG12	1:E:628:TYR:HD2	1.77	0.45
1:E:631:LYS:O	1:E:635:ILE:HG13	2.15	0.45
1:E:653:LYS:HD3	1:E:742:TYR:CE2	2.51	0.45
1:E:1037:ASN:CB	1:E:1674:ILE:HG23	2.47	0.45
1:F:470:GLY:O	1:F:474:ILE:HG13	2.16	0.45
1:F:994:VAL:HG21	1:F:1291:TYR:CD1	2.52	0.45
2:G:776:LEU:HG	2:G:807:PHE:CD2	2.51	0.45
2:G:1175:MET:HA	2:G:1274:ILE:HD11	1.99	0.45
2:G:1558:GLU:O	2:G:1560:PRO:HD3	2.17	0.45
2:G:1588:ASN:HD21	2:G:1590:ILE:HD12	1.81	0.45
2:G:1706:MET:HE1	2:G:1735:ILE:HG23	1.98	0.45
2:G:1767:GLU:CB	2:G:2016:PRO:HG3	2.38	0.45
2:H:159:PHE:CZ	2:H:275:LEU:HD21	2.52	0.45
2:H:336:LEU:C	2:H:336:LEU:HD23	2.41	0.45
2:H:604:MET:HE1	2:H:777:VAL:HG11	1.98	0.45
2:H:1093:ASP:O	2:H:1097:PHE:HB2	2.16	0.45
2:H:1131:ASP:C	2:H:1133:LEU:H	2.23	0.45
2:H:1588:ASN:OD1	2:H:1589:PRO:HD2	2.15	0.45
2:I:190:TYR:HE1	2:I:201:ILE:HG21	1.80	0.45
2:I:718:PRO:HG2	2:I:741:LEU:HD11	1.98	0.45
2:I:859:SER:HB3	2:I:863:GLU:HG3	1.98	0.45
2:I:1348:PHE:CE1	2:I:1351:VAL:HG11	2.51	0.45
2:I:1348:PHE:O	2:I:1351:VAL:HG12	2.16	0.45
2:I:1887:ASN:ND2	2:I:1890:ARG:HG3	2.32	0.45
2:J:37:VAL:HG11	2:J:42:HIS:HA	1.97	0.45
2:J:487:ILE:HB	2:J:488:PRO:CD	2.40	0.45
2:J:555:LYS:HB3	2:J:556:PRO:HD3	1.98	0.45
2:J:604:MET:HB3	2:J:604:MET:HE2	1.85	0.45
2:J:610:PRO:O	2:J:613:VAL:HG12	2.16	0.45
2:J:612:THR:HG21	2:J:629:GLU:O	2.16	0.45
2:J:741:LEU:O	2:J:741:LEU:HG	2.15	0.45
2:J:1290:TYR:CG	2:J:1299:VAL:CG1	2.91	0.45
2:J:1316:VAL:HG13	2:J:1348:PHE:CE2	2.51	0.45
2:J:1426:VAL:HG12	2:J:1427:MET:HG2	1.98	0.45
2:J:1764:MET:HG3	2:J:1781:PHE:CE1	2.52	0.45
2:K:291:VAL:O	2:K:295:ILE:HB	2.15	0.45
2:K:388:ASN:HD22	2:K:389:PHE:N	2.14	0.45
2:K:859:SER:CB	2:K:863:GLU:HG3	2.46	0.45
2:K:876:TRP:C	2:K:876:TRP:HD1	2.22	0.45
2:K:1238:GLY:O	2:K:1239:ASP:OD1	2.33	0.45
2:K:1412:MET:HE3	2:K:1412:MET:HB3	1.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:174:GLY:H	2:L:517:GLY:CA	2.24	0.45
2:L:321:ARG:HE	2:L:450:HIS:HB3	1.81	0.45
2:L:914:TRP:CD1	2:L:916:GLY:CA	2.97	0.45
1:A:626:TRP:CZ3	1:A:898:PHE:HB2	2.52	0.45
1:A:1425:LEU:HD21	1:A:1429:ARG:NH2	2.17	0.45
1:B:1078:ILE:HB	1:B:1338:GLY:HA3	1.97	0.45
1:B:1185:PRO:O	1:B:1188:LEU:HB2	2.17	0.45
1:C:562:SER:CB	1:D:551:LEU:HD21	2.46	0.45
1:C:1343:PRO:HA	1:C:1526:SER:HA	1.99	0.45
1:D:30:GLU:H	1:D:30:GLU:HG3	1.52	0.45
1:D:422:LEU:HB3	1:D:429:ILE:CD1	2.46	0.45
1:D:613:PRO:HD3	1:D:628:TYR:CE2	2.52	0.45
1:D:1055:THR:OG1	1:D:1057:GLU:HG2	2.16	0.45
1:E:413:MET:O	1:E:416:ASP:HB2	2.16	0.45
1:E:968:PRO:CD	1:E:1374:PRO:HB3	2.46	0.45
1:E:1020:PHE:CE2	1:E:1028:MET:HG3	2.51	0.45
1:E:1294:ILE:HD11	1:E:1302:CYS:HB3	1.99	0.45
1:E:1307:PHE:CA	1:E:1568:ALA:HB2	2.47	0.45
1:F:1213:VAL:CG1	1:F:1214:HIS:N	2.79	0.45
1:F:1535:SER:HB3	1:F:1602:PHE:CD1	2.52	0.45
2:G:818:THR:HG22	2:G:829:LYS:HB3	1.98	0.45
2:G:1093:ASP:O	2:G:1097:PHE:HB2	2.16	0.45
2:G:1281:ARG:HH22	2:G:1599:TYR:HE2	1.63	0.45
2:G:1324:PHE:N	2:G:1583:VAL:HG11	2.31	0.45
2:G:1722:ALA:CB	2:G:1812:LEU:HD11	2.46	0.45
2:G:1972:ILE:H	2:G:1972:ILE:HG13	1.37	0.45
2:H:342:ASN:HB2	2:H:406:ARG:NH2	2.32	0.45
2:H:468:PRO:HD3	2:H:479:ARG:HH21	1.77	0.45
2:H:759:GLN:N	2:H:760:PRO:CD	2.80	0.45
2:H:1141:LYS:CE	2:H:1143:SER:HB2	2.47	0.45
2:H:1248:GLU:OE1	2:H:1248:GLU:HA	2.16	0.45
2:H:1650:THR:O	2:H:1669:ALA:HA	2.16	0.45
2:I:441:SER:C	2:I:443:TYR:H	2.25	0.45
2:I:617:PHE:CE1	2:I:822:ALA:HB2	2.51	0.45
2:I:663:ILE:HD12	2:I:663:ILE:N	2.30	0.45
2:I:884:PHE:CE2	2:I:1039:GLU:HA	2.51	0.45
2:I:1028:VAL:HG22	2:I:1030:PHE:CE2	2.52	0.45
2:I:1316:VAL:HG13	2:I:1348:PHE:CE2	2.51	0.45
2:I:1316:VAL:HB	2:I:1391:VAL:O	2.17	0.45
2:I:1462:GLN:O	2:I:1466:VAL:HG23	2.17	0.45
2:J:347:PRO:HA	2:J:432:PHE:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:615:TRP:HA	2:J:618:VAL:CG1	2.46	0.45
2:J:649:GLU:HG3	2:J:650:LYS:HG3	1.97	0.45
2:J:979:LEU:CD2	2:J:999:ALA:HB3	2.45	0.45
2:J:980:LEU:HB2	2:J:996:ILE:CD1	2.46	0.45
2:J:1301:PHE:HB3	2:J:1364:ARG:NH1	2.30	0.45
2:J:1925:MET:HE2	2:J:1925:MET:HB3	1.87	0.45
2:J:2017:PHE:HE2	2:J:2021:LEU:HD11	1.81	0.45
2:J:2058:VAL:CG1	2:J:2067:ILE:HD12	2.47	0.45
2:K:220:GLN:NE2	2:K:324:GLN:HG2	2.31	0.45
2:K:289:ILE:HD12	2:K:472:THR:OG1	2.16	0.45
2:K:321:ARG:HE	2:K:450:HIS:HB3	1.82	0.45
2:K:353:ILE:O	2:K:353:ILE:HG22	2.16	0.45
2:K:1335:PHE:CE1	2:K:1629:ILE:HD11	2.51	0.45
2:K:1634:SER:HB3	2:K:1684:GLU:HB2	1.99	0.45
2:K:1700:GLN:HB2	2:K:1704:MET:HE1	1.98	0.45
2:K:1770:ASN:HB2	2:K:1776:LYS:CE	2.38	0.45
2:K:1896:THR:HG22	2:K:1898:GLN:N	2.20	0.45
2:L:80:ILE:HG12	2:L:105:ILE:HG22	1.99	0.45
2:L:204:ILE:HG21	2:L:312:VAL:HG21	1.98	0.45
2:L:420:PRO:HB2	2:L:423:GLN:HB2	1.98	0.45
2:L:1464:LEU:HD11	2:L:1468:ARG:HD2	1.98	0.45
2:L:1589:PRO:HB2	2:L:1596:PHE:HB3	1.97	0.45
2:L:2053:GLU:H	2:L:2053:GLU:HG3	1.47	0.45
1:A:28:TRP:CE2	1:A:53:LEU:HD22	2.52	0.45
1:A:670:LEU:CD1	1:A:680:VAL:HG21	2.47	0.45
1:A:1213:VAL:HG13	1:A:1217:GLU:HB2	1.98	0.45
1:A:1504:ARG:NH2	1:A:1545:LEU:O	2.50	0.45
1:B:983:GLN:O	1:B:1418:ILE:HD11	2.17	0.45
1:B:999:LEU:HD11	1:B:1575:ASN:CB	2.46	0.45
1:B:1475:GLU:HB3	1:B:1479:ARG:NH2	2.32	0.45
1:C:883:LEU:HA	1:C:888:ILE:HD12	1.98	0.45
1:C:1019:LYS:HB2	1:C:1019:LYS:HE3	1.69	0.45
1:C:1154:LEU:HD23	1:C:1154:LEU:HA	1.79	0.45
1:C:1378:ILE:HD11	1:C:1642:LEU:HB2	1.98	0.45
1:C:1522:PHE:HE2	1:C:1535:SER:HA	1.82	0.45
1:C:1586:VAL:CG2	1:C:1617:ILE:HD11	2.46	0.45
1:D:501:ASP:HB2	1:D:505:ASN:HB2	1.99	0.45
1:D:1037:ASN:HD21	2:J:1011:GLN:HG2	1.82	0.45
1:D:1068:TYR:O	1:D:1072:ILE:HG13	2.17	0.45
1:D:1475:GLU:HB3	1:D:1479:ARG:NH2	2.32	0.45
1:D:1522:PHE:HE2	1:D:1535:SER:HA	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1071:TYR:C	1:E:1071:TYR:HD2	2.25	0.45
1:E:1467:LEU:O	1:E:1471:THR:HG23	2.17	0.45
1:E:1524:GLY:HA2	1:E:1531:ASP:OD1	2.16	0.45
1:F:689:ARG:NH2	1:F:1591:ASN:HD21	2.15	0.45
1:F:1673:LEU:HD23	1:F:1673:LEU:HA	1.82	0.45
2:G:192:THR:O	2:G:194:PRO:HD3	2.17	0.45
2:G:529:ASN:HD22	2:G:552:VAL:CG2	2.29	0.45
2:G:1146:LEU:O	2:G:1201:GLY:HA2	2.17	0.45
2:G:1156:ASP:CB	2:G:1159:SER:H	2.22	0.45
2:H:102:LEU:O	2:H:106:LEU:HG	2.17	0.45
2:H:529:ASN:HD22	2:H:552:VAL:CG2	2.30	0.45
2:H:788:THR:CG2	2:H:1094:HIS:CE1	2.99	0.45
2:H:1410:GLY:HA2	2:H:1437:GLY:O	2.17	0.45
2:H:1456:LEU:HD23	2:H:1457:HIS:N	2.31	0.45
2:I:70:SER:HB2	2:I:74:GLU:OE2	2.16	0.45
2:I:170:TYR:CD2	2:I:507:PHE:HB3	2.51	0.45
2:I:276:LEU:HD13	2:I:466:VAL:HG21	1.98	0.45
2:I:401:LEU:HD22	2:I:405:LEU:HG	1.98	0.45
2:I:731:ALA:HA	2:I:739:ILE:HD12	1.98	0.45
2:I:1141:LYS:CE	2:I:1143:SER:HB2	2.47	0.45
2:I:1361:ILE:HD11	2:I:1433:PHE:CD2	2.52	0.45
2:I:1637:VAL:HG11	2:I:1679:LEU:HD22	1.98	0.45
2:I:1804:GLN:O	2:I:1861:PHE:HD1	1.99	0.45
2:I:2062:THR:HG22	2:I:2063:GLY:N	2.30	0.45
2:J:250:PHE:CD2	2:J:287:GLN:HG3	2.52	0.45
2:J:411:PRO:HD2	2:J:414:LEU:HD11	1.98	0.45
2:J:674:ILE:HB	2:J:675:PRO:HD3	1.99	0.45
2:J:868:LEU:HD13	2:J:1068:GLN:HG3	1.97	0.45
2:J:888:ARG:HD3	2:J:891:ARG:NH1	2.32	0.45
2:J:1000:TYR:HA	2:J:1001:PRO:HD2	1.79	0.45
2:J:1266:HIS:C	2:J:1268:GLU:H	2.24	0.45
2:K:625:GLY:C	2:K:656:ARG:NH2	2.75	0.45
2:K:740:ILE:HD12	2:K:740:ILE:N	2.31	0.45
2:K:867:LYS:CD	2:K:1065:CYS:SG	3.02	0.45
2:K:1318:ALA:HA	2:K:1391:VAL:CG2	2.45	0.45
2:K:1362:PHE:N	2:K:1363:PRO:CD	2.80	0.45
2:L:38:PRO:CD	2:L:104:LEU:HD11	2.42	0.45
2:L:253:ILE:HB	2:L:287:GLN:HE22	1.80	0.45
2:L:262:MET:HE3	2:L:262:MET:HB3	1.71	0.45
2:L:353:ILE:O	2:L:353:ILE:HG22	2.16	0.45
2:L:460:ILE:O	2:L:485:ASP:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:737:PHE:O	2:L:773:ASN:HB3	2.17	0.45
2:L:740:ILE:HD12	2:L:740:ILE:N	2.32	0.45
2:L:868:LEU:HD12	2:L:868:LEU:HA	1.71	0.45
2:L:1250:ARG:CZ	2:L:1592:VAL:HG12	2.46	0.45
2:L:1299:VAL:O	2:L:1301:PHE:HD2	2.00	0.45
2:L:1483:LEU:CD2	2:L:1525:VAL:HG11	2.47	0.45
2:L:2017:PHE:HE2	2:L:2021:LEU:HD11	1.81	0.45
1:A:40:ARG:HH21	1:A:72:THR:HG22	1.81	0.45
1:A:47:ILE:HD12	2:G:1694:PHE:HE1	1.81	0.45
1:A:558:LEU:HA	1:F:557:ARG:NH1	2.31	0.45
1:A:653:LYS:HD3	1:A:742:TYR:CE2	2.52	0.45
1:A:1149:LEU:HD12	1:E:1097:LEU:HD13	1.97	0.45
1:B:655:ALA:HB3	1:B:680:VAL:HG12	1.98	0.45
1:B:921:GLU:HG3	1:B:922:ILE:H	1.82	0.45
1:B:1212:TYR:CD2	1:B:1371:MET:HG2	2.52	0.45
1:C:486:VAL:HG22	1:C:648:LEU:C	2.41	0.45
1:C:631:LYS:O	1:C:635:ILE:HG13	2.17	0.45
1:C:988:VAL:HG12	1:C:990:LEU:HD23	1.98	0.45
1:C:1159:LEU:HD12	1:C:1327:ALA:HB3	1.98	0.45
1:C:1682:LYS:HB3	1:F:1389:ILE:HD13	1.98	0.45
1:D:484:PRO:HA	1:D:485:PRO:HD3	1.64	0.45
1:D:1050:TRP:HA	1:D:1050:TRP:CE3	2.52	0.45
1:E:28:TRP:CZ2	1:E:53:LEU:HD22	2.51	0.45
1:E:1547:ARG:HG2	1:E:1604:TYR:CD1	2.45	0.45
1:E:1640:LYS:CG	1:E:1641:TYR:CD1	3.00	0.45
1:E:1647:ASP:C	1:E:1649:ALA:N	2.74	0.45
1:F:29:ILE:N	2:L:1920:TYR:O	2.50	0.45
1:F:430:VAL:HG11	1:F:490:VAL:HG11	1.98	0.45
1:F:631:LYS:O	1:F:635:ILE:HG13	2.17	0.45
1:F:883:LEU:HA	1:F:888:ILE:HD12	1.98	0.45
1:F:995:VAL:HG13	1:F:1375:ILE:HG23	1.99	0.45
1:F:1213:VAL:HG13	1:F:1217:GLU:OE1	2.17	0.45
1:F:1544:HIS:O	1:F:1544:HIS:CD2	2.70	0.45
2:G:321:ARG:HE	2:G:450:HIS:HB3	1.80	0.45
2:G:580:LEU:HD12	2:G:1103:TYR:CD2	2.51	0.45
2:G:625:GLY:C	2:G:656:ARG:HH22	2.25	0.45
2:G:837:GLY:HA3	2:G:1074:LYS:HG2	1.98	0.45
2:G:1084:LYS:O	2:G:1088:ASP:HB2	2.16	0.45
2:G:1335:PHE:N	2:G:1335:PHE:CD1	2.84	0.45
2:G:1650:THR:O	2:G:1669:ALA:HA	2.16	0.45
2:H:555:LYS:HB3	2:H:556:PRO:HD3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:928:ASP:C	2:H:1007:LEU:HD23	2.42	0.45
2:H:1120:ILE:CD1	2:H:1169:TYR:CE1	2.98	0.45
2:H:1208:ASN:N	2:H:1209:PRO:HD3	2.31	0.45
2:H:1229:VAL:HG12	2:H:1230:LYS:N	2.32	0.45
2:H:1348:PHE:CE1	2:H:1351:VAL:HG11	2.52	0.45
2:I:465:LEU:HB2	2:I:479:ARG:HG2	1.97	0.45
2:I:764:MET:O	2:I:765:TYR:C	2.59	0.45
2:I:792:LEU:O	2:I:792:LEU:HD12	2.16	0.45
2:I:1286:LYS:HZ3	2:I:1367:ASP:HA	1.81	0.45
2:I:1507:VAL:O	2:I:1531:GLU:HA	2.16	0.45
2:J:102:LEU:O	2:J:106:LEU:HG	2.16	0.45
2:J:208:LEU:HA	2:J:211:LEU:HD12	1.97	0.45
2:J:699:ILE:H	2:J:699:ILE:CD1	2.30	0.45
2:J:823:HIS:HB3	2:J:1051:GLU:HG3	1.99	0.45
2:J:912:LYS:NZ	2:J:1044:LYS:O	2.49	0.45
2:K:1179:GLU:CD	2:K:1179:GLU:N	2.70	0.45
2:K:1334:ALA:HB3	2:K:1629:ILE:HD11	1.98	0.45
2:K:1451:GLU:HG3	2:K:1541:ILE:HD11	1.98	0.45
2:L:444:LEU:HD23	2:L:444:LEU:HA	1.71	0.45
2:L:765:TYR:CD1	2:L:805:MET:HE3	2.52	0.45
2:L:980:LEU:HD21	2:L:986:LEU:HD21	1.99	0.45
2:L:1452:VAL:O	2:L:1454:MET:HG3	2.16	0.45
2:L:1896:THR:CG2	2:L:1897:GLU:N	2.80	0.45
1:A:557:ARG:O	1:F:557:ARG:HD2	2.17	0.45
1:A:1154:LEU:HD21	1:E:1118:GLU:OE2	2.16	0.45
1:A:1213:VAL:HG13	1:A:1217:GLU:OE1	2.17	0.45
1:A:1406:GLU:OE2	1:A:1504:ARG:NH1	2.49	0.45
1:B:31:THR:HG23	2:H:2040:ILE:CG2	2.47	0.45
1:B:657:MET:HE2	1:B:657:MET:HB3	1.89	0.45
1:B:1055:THR:C	1:B:1057:GLU:H	2.25	0.45
1:B:1401:LEU:HD22	1:D:1697:LEU:HD21	1.98	0.45
1:C:511:VAL:HG12	1:C:512:PRO:HD2	1.99	0.45
1:C:1108:PRO:HA	1:C:1140:VAL:O	2.16	0.45
1:C:1264:MET:O	1:F:1389:ILE:HG23	2.16	0.45
1:C:1589:ASN:OD1	1:C:1589:ASN:C	2.60	0.45
1:D:532:ILE:CD1	1:D:866:LEU:O	2.64	0.45
1:D:536:SER:HB3	1:D:540:LYS:HD2	1.98	0.45
1:D:655:ALA:CB	1:D:742:TYR:HB2	2.47	0.45
1:D:1199:LEU:C	1:D:1201:SER:N	2.75	0.45
1:E:918:LEU:O	1:E:921:GLU:HG3	2.17	0.45
1:E:957:THR:HG22	2:K:968:GLU:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1560:TYR:CE2	1:E:1589:ASN:HA	2.52	0.45
1:F:501:ASP:HB2	1:F:505:ASN:HB2	1.98	0.45
1:F:744:VAL:HG12	1:F:746:PHE:CD1	2.52	0.45
1:F:869:ARG:O	1:F:903:GLY:HA3	2.17	0.45
1:F:991:ASP:HA	1:F:1364:THR:CG2	2.47	0.45
1:F:1386:THR:HG22	1:F:1387:ASP:H	1.82	0.45
1:F:1444:GLN:O	1:F:1447:VAL:HB	2.17	0.45
1:F:1580:VAL:HG22	1:F:1585:ILE:O	2.16	0.45
2:G:228:LEU:O	2:G:232:HIS:CD2	2.69	0.45
2:G:444:LEU:HD23	2:G:444:LEU:HA	1.77	0.45
2:G:612:THR:CG2	2:G:629:GLU:O	2.65	0.45
2:G:649:GLU:HG3	2:G:650:LYS:HG3	1.99	0.45
2:G:1103:TYR:O	2:G:1106:LYS:HB2	2.17	0.45
2:G:1206:ILE:O	2:G:1209:PRO:HG3	2.17	0.45
2:G:1410:GLY:HA2	2:G:1437:GLY:O	2.17	0.45
2:G:1521:GLU:OE1	2:G:1521:GLU:HA	2.17	0.45
2:H:159:PHE:CD2	2:H:169:ILE:HD12	2.52	0.45
2:H:2038:LYS:HA	2:H:2038:LYS:HD3	1.74	0.45
2:I:298:ALA:HB2	2:I:304:PHE:HA	1.98	0.45
2:I:1359:LYS:N	2:I:1360:PRO:CD	2.80	0.45
2:I:2062:THR:HG22	2:I:2064:SER:N	2.32	0.45
2:J:80:ILE:HG12	2:J:105:ILE:CG2	2.47	0.45
2:J:211:LEU:HB3	2:J:316:PHE:CZ	2.51	0.45
2:J:541:LEU:HG	2:J:552:VAL:CG1	2.47	0.45
2:J:549:ASN:HD22	2:J:549:ASN:C	2.25	0.45
2:J:625:GLY:C	2:J:656:ARG:HH22	2.25	0.45
2:J:737:PHE:O	2:J:773:ASN:HB3	2.17	0.45
2:J:911:GLN:HE21	2:J:1064:THR:HG23	1.82	0.45
2:J:1106:LYS:HB2	2:J:1109:ASN:ND2	2.32	0.45
2:J:1127:GLU:HA	2:J:1128:PRO:HD3	1.75	0.45
2:J:1338:ARG:HH22	2:L:327:PRO:N	2.13	0.45
2:K:92:GLU:C	2:K:94:ALA:H	2.24	0.45
2:K:141:TYR:HA	2:K:144:ARG:HB3	1.98	0.45
2:K:208:LEU:HA	2:K:211:LEU:HD12	1.98	0.45
2:K:771:CYS:HB3	2:K:774:ILE:CD1	2.43	0.45
2:K:788:THR:HG21	2:K:810:CYS:SG	2.57	0.45
2:K:1017:LEU:O	2:K:1021:GLN:HG3	2.17	0.45
2:K:1108:GLU:H	2:K:1108:GLU:HG3	1.58	0.45
2:L:381:SER:HB2	2:L:440:HIS:HB2	1.99	0.45
2:L:440:HIS:CD2	2:L:499:VAL:CG2	2.99	0.45
2:L:764:MET:O	2:L:765:TYR:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1106:LYS:HB2	2:L:1109:ASN:ND2	2.31	0.45
1:A:438:ASN:O	1:A:705:ARG:HG2	2.17	0.45
1:A:755:GLU:C	1:A:757:ASP:N	2.73	0.45
1:A:1209:PHE:CZ	1:A:1301:VAL:HG21	2.51	0.45
1:A:1522:PHE:HE2	1:A:1535:SER:HA	1.81	0.45
1:A:1580:VAL:HG22	1:A:1585:ILE:O	2.17	0.45
1:A:1586:VAL:CG2	1:A:1617:ILE:HD11	2.47	0.45
1:B:41:THR:HG21	2:H:1691:ALA:HB2	1.99	0.45
1:B:755:GLU:C	1:B:757:ASP:N	2.75	0.45
1:B:1170:ALA:HB3	1:B:1188:LEU:HD13	1.98	0.45
1:B:1388:LYS:HD3	1:D:1692:GLN:HE22	1.82	0.45
1:B:1473:HIS:C	1:B:1473:HIS:ND1	2.75	0.45
1:B:1622:VAL:HG13	1:B:1622:VAL:O	2.17	0.45
1:C:411:LEU:HD22	1:C:1612:ILE:HD13	1.99	0.45
1:D:648:LEU:HD12	1:D:649:THR:N	2.32	0.45
1:D:883:LEU:HA	1:D:888:ILE:HD12	1.98	0.45
1:D:1071:TYR:C	1:D:1071:TYR:HD2	2.24	0.45
1:E:29:ILE:HD11	2:K:1922:VAL:CA	2.47	0.45
1:E:400:ASP:C	1:E:400:ASP:OD1	2.60	0.45
1:E:427:ARG:O	1:E:430:VAL:HB	2.17	0.45
1:E:541:VAL:O	1:E:545:LEU:HG	2.16	0.45
1:E:1083:PRO:HB3	1:E:1089:TYR:O	2.17	0.45
1:F:967:PHE:HB3	1:F:968:PRO:HD2	1.99	0.45
1:F:1014:MET:O	1:F:1590:ARG:NH2	2.32	0.45
2:G:298:ALA:HB2	2:G:304:PHE:HA	1.99	0.45
2:G:663:ILE:H	2:G:663:ILE:CD1	2.23	0.45
2:G:1028:VAL:HG22	2:G:1030:PHE:CE2	2.51	0.45
2:G:1236:LEU:O	2:G:1237:VAL:HG23	2.16	0.45
2:G:2058:VAL:CG1	2:G:2067:ILE:HD12	2.47	0.45
2:H:420:PRO:HB2	2:H:423:GLN:HB2	1.99	0.45
2:H:607:GLY:HA2	2:H:612:THR:HG21	1.97	0.45
2:H:612:THR:HG21	2:H:629:GLU:O	2.17	0.45
2:H:1382:MET:HE2	2:H:1382:MET:HB3	1.62	0.45
2:H:1402:ASN:O	2:H:1403:ALA:HB2	2.17	0.45
2:H:1555:VAL:O	2:H:1555:VAL:HG12	2.16	0.45
2:I:859:SER:CB	2:I:863:GLU:HG3	2.47	0.45
2:I:918:ASN:HB3	2:I:924:VAL:HG21	1.99	0.45
2:I:1131:ASP:C	2:I:1133:LEU:H	2.25	0.45
2:I:1818:PHE:HE2	2:I:1822:ARG:NH1	2.13	0.45
2:J:663:ILE:HD12	2:J:663:ILE:N	2.31	0.45
2:J:1362:PHE:N	2:J:1363:PRO:CD	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1678:VAL:O	2:J:1679:LEU:HD23	2.16	0.45
2:J:1884:CYS:HB3	2:J:1936:LEU:CD1	2.44	0.45
2:K:196:PHE:HD2	2:K:266:LYS:CB	2.29	0.45
2:K:358:ARG:HH21	2:K:383:VAL:HG21	1.81	0.45
2:K:787:ASP:C	2:K:790:PRO:HD2	2.42	0.45
2:K:868:LEU:HD23	2:K:1066:ILE:HD12	1.99	0.45
2:K:910:PHE:HD2	2:K:912:LYS:H	1.64	0.45
2:K:1362:PHE:O	2:K:1363:PRO:O	2.35	0.45
2:K:1491:ARG:C	2:K:1492:LEU:HD23	2.42	0.45
2:L:179:ILE:HG12	2:L:182:TYR:HB3	1.98	0.45
2:L:356:LEU:HD23	2:L:356:LEU:HA	1.65	0.45
2:L:662:LEU:HD22	2:L:673:GLN:OE1	2.17	0.45
2:L:712:ARG:O	2:L:738:PRO:HG2	2.16	0.45
2:L:868:LEU:HD13	2:L:1068:GLN:HG3	1.98	0.45
2:L:888:ARG:HD3	2:L:891:ARG:NH1	2.31	0.45
2:L:914:TRP:CH2	2:L:1033:ALA:HA	2.52	0.45
2:L:1631:ARG:NH2	2:L:1688:PRO:HA	2.32	0.45
2:L:1766:PHE:CE1	2:L:1869:VAL:HB	2.52	0.45
2:L:1910:VAL:CG1	2:L:1973:ILE:HG21	2.46	0.45
1:A:683:THR:HB	1:A:714:PHE:CB	2.42	0.45
1:A:1148:LEU:HD21	1:E:1150:ILE:HG12	1.99	0.45
1:B:574:ILE:HG12	1:B:574:ILE:H	1.58	0.45
1:B:948:HIS:O	1:B:952:TYR:HD2	2.00	0.45
1:B:1432:ILE:HD11	1:B:1481:GLN:CB	2.46	0.45
1:B:1457:GLU:H	1:B:1457:GLU:HG3	1.41	0.45
1:B:1565:PRO:CG	1:B:1572:TRP:CZ3	2.95	0.45
1:C:1317:GLU:CG	1:F:1250:LEU:HB2	2.43	0.45
1:C:1359:VAL:CG1	1:C:1360:GLN:N	2.80	0.45
1:D:905:LEU:HD22	1:D:911:LEU:CD2	2.47	0.45
1:D:973:TRP:CD1	1:D:1648:LYS:HD2	2.52	0.45
1:E:961:ALA:HB2	1:E:1022:LEU:HD12	1.99	0.45
1:F:421:ARG:HH22	1:F:1613:LYS:HB3	1.82	0.45
1:F:433:CYS:SG	1:F:473:LEU:HD13	2.57	0.45
1:F:1640:LYS:HG3	1:F:1641:TYR:CD1	2.52	0.45
2:G:73:VAL:HG13	2:G:113:PHE:HD2	1.82	0.45
2:G:170:TYR:CD2	2:G:507:PHE:HB3	2.52	0.45
2:G:289:ILE:HG21	2:G:493:MET:CE	2.47	0.45
2:G:489:GLU:HG2	2:G:492:ARG:CZ	2.47	0.45
2:G:785:SER:O	2:G:789:TYR:HB2	2.17	0.45
2:G:980:LEU:HB2	2:G:996:ILE:CD1	2.47	0.45
2:G:1131:ASP:C	2:G:1133:LEU:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1309:PHE:N	2:G:1309:PHE:CD1	2.85	0.45
2:G:1692:TYR:O	2:G:1833:PHE:HA	2.17	0.45
2:H:657:GLY:HA3	2:H:688:GLU:HG2	1.99	0.45
2:H:781:GLY:HA2	2:H:1071:VAL:CG1	2.38	0.45
2:H:912:LYS:NZ	2:H:1044:LYS:O	2.50	0.45
2:H:1067:LEU:HB2	3:H:2101:FMN:C7M	2.47	0.45
2:H:1372:LYS:O	2:H:1436:ARG:HG2	2.17	0.45
2:H:1700:GLN:HB2	2:H:1704:MET:HE1	1.97	0.45
2:H:2062:THR:HG22	2:H:2064:SER:N	2.32	0.45
2:I:320:LEU:O	2:I:324:GLN:HG3	2.17	0.45
2:I:506:VAL:O	2:I:506:VAL:HG22	2.16	0.45
2:I:613:VAL:CG1	2:I:614:PRO:HD3	2.47	0.45
2:I:621:THR:OG1	2:I:1083:ILE:HD13	2.17	0.45
2:I:691:THR:OG1	2:I:715:SER:HB3	2.17	0.45
2:I:1031:VAL:HG22	2:I:1041:TRP:HB3	1.98	0.45
2:I:1160:PHE:CE1	2:I:1164:ILE:HD11	2.52	0.45
2:I:1566:LYS:O	2:I:1568:PRO:HD3	2.17	0.45
2:J:92:GLU:C	2:J:94:ALA:H	2.25	0.45
2:J:342:ASN:CB	2:J:406:ARG:NH2	2.80	0.45
2:J:617:PHE:HE2	2:J:628:ILE:HD11	1.81	0.45
2:J:1084:LYS:O	2:J:1088:ASP:HB2	2.17	0.45
2:J:1316:VAL:HG13	2:J:1348:PHE:HE2	1.82	0.45
2:K:580:LEU:HD12	2:K:1103:TYR:CD2	2.52	0.45
2:K:776:LEU:HG	2:K:807:PHE:CD2	2.52	0.45
2:K:942:MET:HE2	2:K:955:LEU:CD1	2.43	0.45
2:K:1047:LEU:O	2:K:1049:GLN:N	2.50	0.45
2:K:1692:TYR:O	2:K:1833:PHE:HA	2.16	0.45
2:K:1723:ASP:O	2:K:1724:LYS:C	2.60	0.45
2:L:604:MET:HE1	2:L:777:VAL:HG11	1.99	0.45
2:L:857:VAL:HG11	2:L:876:TRP:NE1	2.30	0.45
2:L:942:MET:HG2	2:L:1029:PRO:HG2	1.98	0.45
2:L:1261:PHE:HA	2:L:1284:ARG:NH1	2.32	0.45
2:L:1762:MET:HG2	2:L:1779:LYS:NZ	2.32	0.45
2:L:1904:VAL:HG22	2:L:1939:LEU:CD2	2.46	0.45
1:A:902:ASN:O	1:A:904:GLY:N	2.46	0.44
1:A:1129:ILE:HA	1:A:1139:THR:O	2.18	0.44
1:A:1343:PRO:HA	1:A:1526:SER:HA	1.99	0.44
1:B:56:MET:HE2	2:H:1926:GLN:OE1	2.17	0.44
1:B:1158:ARG:HD2	1:B:1324:THR:HB	1.99	0.44
1:D:929:ARG:O	1:D:933:ILE:HG13	2.17	0.44
1:D:1052:ASP:HB3	1:D:1055:THR:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1444:GLN:O	1:D:1447:VAL:HB	2.18	0.44
1:E:340:LEU:HD22	1:E:351:LEU:HD11	1.98	0.44
1:E:532:ILE:HG22	1:E:907:PHE:CG	2.52	0.44
1:E:623:PHE:N	1:E:623:PHE:HD2	2.15	0.44
1:E:995:VAL:CG1	1:E:1375:ILE:HG23	2.47	0.44
1:E:1042:LEU:HD23	1:E:1042:LEU:HA	1.73	0.44
1:E:1278:GLY:CA	1:E:1630:LYS:HE2	2.43	0.44
1:E:1330:GLU:CG	1:E:1333:ARG:NH1	2.78	0.44
1:F:427:ARG:CG	1:F:427:ARG:NH1	2.48	0.44
1:F:535:TYR:OH	1:F:630:LYS:HE3	2.17	0.44
1:F:612:ILE:HA	1:F:613:PRO:HD2	1.42	0.44
1:F:673:LEU:HD21	1:F:884:MET:CE	2.47	0.44
1:F:1052:ASP:HB3	1:F:1055:THR:HG23	1.98	0.44
2:G:705:TYR:HA	2:G:709:LEU:CD2	2.47	0.44
2:G:1250:ARG:CD	2:G:1250:ARG:H	2.30	0.44
2:G:1873:ARG:NH1	2:G:2002:ASP:CB	2.80	0.44
2:G:2017:PHE:HE2	2:G:2021:LEU:HD11	1.82	0.44
2:H:603:VAL:HG22	2:H:810:CYS:SG	2.57	0.44
2:H:1099:LEU:HD12	2:H:1103:TYR:CB	2.46	0.44
2:H:1285:ILE:O	2:H:1288:PHE:HB3	2.17	0.44
2:H:1594:ARG:NH1	2:H:1594:ARG:CG	2.61	0.44
3:H:2101:FMN:O4'	3:H:2101:FMN:H1'2	2.16	0.44
2:I:286:SER:O	2:I:494:ILE:HD11	2.17	0.44
2:I:422:THR:OG1	2:I:844:GLU:OE1	2.34	0.44
2:I:1464:LEU:HD11	2:I:1468:ARG:HD2	1.98	0.44
2:J:468:PRO:HD3	2:J:479:ARG:HH21	1.82	0.44
2:J:821:GLU:H	2:J:821:GLU:HG2	1.43	0.44
2:J:1521:GLU:OE1	2:J:1521:GLU:HA	2.17	0.44
2:J:1650:THR:O	2:J:1669:ALA:HA	2.17	0.44
2:K:44:GLN:HE21	2:K:48:LEU:HD21	1.82	0.44
2:K:215:TRP:HE3	2:K:215:TRP:N	2.15	0.44
2:K:506:VAL:HG22	2:K:506:VAL:O	2.16	0.44
2:K:784:GLY:HA3	2:K:786:GLU:OE2	2.17	0.44
2:K:990:TYR:N	2:K:991:PRO:CD	2.80	0.44
2:K:1314:GLU:O	2:K:1394:VAL:HA	2.17	0.44
2:K:1626:GLU:O	2:K:1627:ASN:HB2	2.16	0.44
2:K:1723:ASP:OD1	2:K:1735:ILE:HG13	2.17	0.44
2:L:580:LEU:HD12	2:L:1103:TYR:CD2	2.52	0.44
2:L:625:GLY:C	2:L:656:ARG:NH2	2.76	0.44
2:L:703:ASN:O	2:L:707:GLN:HG3	2.17	0.44
2:L:731:ALA:CB	2:L:739:ILE:HD12	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1127:GLU:HA	2:L:1128:PRO:HD3	1.76	0.44
2:L:1261:PHE:HE2	2:L:1285:ILE:HD11	1.83	0.44
2:L:1382:MET:HB3	2:L:1382:MET:HE2	1.70	0.44
2:L:1391:VAL:C	2:L:1393:ASP:H	2.25	0.44
2:L:1808:PRO:O	2:L:1812:LEU:HD23	2.17	0.44
1:A:21:GLN:HE22	2:G:1841:TYR:HE1	1.64	0.44
1:A:1301:VAL:HG23	1:A:1363:MET:CG	2.47	0.44
1:A:1601:GLN:HB2	1:A:1602:PHE:CD2	2.53	0.44
1:B:484:PRO:HA	1:B:485:PRO:HD3	1.64	0.44
1:B:755:GLU:CG	1:E:831:GLU:HG2	2.45	0.44
1:B:1004:PRO:HD3	1:B:1572:TRP:CH2	2.51	0.44
1:B:1199:LEU:C	1:B:1201:SER:N	2.76	0.44
1:B:1313:GLU:H	1:B:1313:GLU:HG2	1.54	0.44
1:C:450:TYR:CD1	1:C:1551:ASN:HB2	2.52	0.44
1:C:874:GLN:H	1:C:874:GLN:HG2	1.35	0.44
1:C:1509:THR:HG1	1:C:1510:TRP:CD1	2.36	0.44
1:C:1587:PRO:HA	1:C:1611:SER:OG	2.18	0.44
1:C:1622:VAL:O	1:C:1622:VAL:HG13	2.17	0.44
1:D:997:THR:HB	1:D:1363:MET:HE2	1.98	0.44
1:D:1168:TRP:HZ2	1:D:1192:VAL:HG11	1.83	0.44
1:E:679:LYS:HG2	1:E:708:GLN:CB	2.42	0.44
1:E:1055:THR:OG1	1:E:1057:GLU:HG2	2.17	0.44
1:E:1129:ILE:HA	1:E:1139:THR:O	2.17	0.44
1:F:1175:VAL:HA	1:F:1176:PRO:HD3	1.82	0.44
1:F:1698:ASN:C	1:F:1700:GLN:H	2.26	0.44
2:G:876:TRP:C	2:G:876:TRP:HD1	2.22	0.44
2:G:1346:MET:HE3	2:G:1617:ARG:HH22	1.81	0.44
2:G:1489:VAL:HB	2:G:1514:LEU:HB2	2.00	0.44
2:G:1579:ASN:O	2:G:1583:VAL:HG23	2.17	0.44
2:G:1871:VAL:CG2	2:G:2004:PRO:HD3	2.47	0.44
2:G:1930:ALA:HB1	2:G:2004:PRO:HB3	1.99	0.44
2:H:113:PHE:N	2:H:113:PHE:CD1	2.85	0.44
2:H:192:THR:O	2:H:194:PRO:HD3	2.16	0.44
2:H:208:LEU:HD12	2:H:227:ILE:HD11	1.98	0.44
2:H:276:LEU:HD11	2:H:296:ALA:HA	1.99	0.44
2:H:356:LEU:HB3	2:H:361:VAL:HG23	1.99	0.44
2:H:541:LEU:HG	2:H:552:VAL:CG1	2.46	0.44
2:H:1194:ARG:HD2	2:H:1598:SER:O	2.17	0.44
2:I:22:ARG:CD	2:I:39:THR:HA	2.48	0.44
2:I:215:TRP:HE3	2:I:215:TRP:N	2.14	0.44
2:I:1259:LEU:HD11	2:I:1285:ILE:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1521:GLU:OE1	2:I:1521:GLU:HA	2.18	0.44
2:I:1636:HIS:O	2:I:1681:GLY:HA3	2.17	0.44
2:I:1793:TYR:CD2	2:I:1805:PHE:CZ	3.04	0.44
2:I:1977:ARG:CD	2:I:1978:LYS:HE3	2.47	0.44
2:J:342:ASN:HB2	2:J:406:ARG:NH2	2.31	0.44
2:J:613:VAL:H	2:J:614:PRO:HD3	1.80	0.44
2:J:1204:VAL:HA	2:J:1218:SER:O	2.18	0.44
2:J:1507:VAL:O	2:J:1531:GLU:HA	2.16	0.44
2:K:120:HIS:HD2	2:K:137:VAL:HG21	1.83	0.44
2:K:759:GLN:N	2:K:760:PRO:CD	2.80	0.44
2:K:1521:GLU:OE1	2:K:1521:GLU:HA	2.17	0.44
2:L:129:ILE:HG21	2:L:132:LYS:HG3	1.99	0.44
2:L:192:THR:O	2:L:194:PRO:HD3	2.16	0.44
2:L:440:HIS:HD2	2:L:497:ASP:O	2.01	0.44
2:L:1245:THR:HG23	2:L:1260:THR:OG1	2.17	0.44
2:L:1250:ARG:NH1	2:L:1592:VAL:CG1	2.80	0.44
2:L:1266:HIS:C	2:L:1268:GLU:N	2.74	0.44
1:A:46:GLU:HB3	1:A:80:CYS:HA	2.00	0.44
1:A:929:ARG:O	1:A:933:ILE:HG13	2.16	0.44
1:A:1150:ILE:HG12	1:E:1148:LEU:CD2	2.48	0.44
1:B:14:LEU:HD21	2:H:1844:LEU:HD21	1.99	0.44
1:B:36:LEU:O	1:B:76:ARG:NH2	2.49	0.44
1:B:635:ILE:H	1:B:635:ILE:HG13	1.58	0.44
1:B:655:ALA:O	1:B:680:VAL:HA	2.17	0.44
1:B:973:TRP:CD1	1:B:1648:LYS:HD2	2.52	0.44
1:B:1364:THR:CG2	1:B:1366:GLN:HB2	2.47	0.44
1:C:577:LEU:HD23	1:C:584:ILE:HG21	1.99	0.44
1:C:1148:LEU:HD21	1:F:1150:ILE:HG12	2.00	0.44
1:C:1185:PRO:O	1:C:1188:LEU:HB2	2.18	0.44
1:C:1209:PHE:CZ	1:C:1301:VAL:HG21	2.52	0.44
1:C:1491:ASN:HD22	1:C:1491:ASN:N	2.15	0.44
1:D:450:TYR:CD2	1:D:450:TYR:C	2.95	0.44
1:D:1275:THR:HA	1:D:1276:PRO:HD3	1.67	0.44
1:E:56:MET:HE3	1:E:56:MET:HB2	1.89	0.44
1:E:553:ARG:C	1:E:555:GLN:H	2.26	0.44
1:E:850:THR:C	1:E:852:LEU:H	2.25	0.44
1:E:1213:VAL:HG13	1:E:1217:GLU:HB2	2.00	0.44
1:E:1223:GLY:CA	1:E:1276:PRO:HD2	2.43	0.44
1:F:533:SER:OG	1:F:611:THR:HB	2.17	0.44
1:F:1301:VAL:HG23	1:F:1363:MET:HG3	1.98	0.44
1:F:1470:ARG:HD3	1:F:1470:ARG:HA	1.87	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1686:PRO:HB2	1:F:1713:PHE:CD2	2.51	0.44
2:G:291:VAL:O	2:G:295:ILE:HB	2.18	0.44
2:G:740:ILE:HD12	2:G:740:ILE:N	2.33	0.44
2:G:1183:GLN:HB3	2:G:1278:MET:HE3	1.96	0.44
2:G:1207:THR:O	2:G:1215:THR:HA	2.17	0.44
2:G:1812:LEU:HD21	2:G:1857:VAL:HG11	1.99	0.44
2:H:215:TRP:HE3	2:H:216:ASP:N	2.09	0.44
2:H:376:ARG:HH21	2:I:1339:GLY:HA2	1.82	0.44
2:H:888:ARG:HD3	2:H:891:ARG:NH1	2.32	0.44
2:H:1130:ILE:HD12	2:H:1133:LEU:HD22	1.98	0.44
2:H:1977:ARG:HD2	2:H:1978:LYS:HE3	1.99	0.44
2:I:262:MET:HE3	2:I:262:MET:HB3	1.68	0.44
2:I:644:ALA:O	2:I:648:ILE:HG13	2.18	0.44
2:I:868:LEU:HD12	2:I:868:LEU:HA	1.78	0.44
2:I:1589:PRO:HB2	2:I:1596:PHE:HB3	1.99	0.44
2:I:1799:LEU:C	2:I:1801:SER:H	2.23	0.44
2:I:1977:ARG:HD2	2:I:1978:LYS:HE3	1.99	0.44
2:I:1998:LEU:HB2	2:I:2001:ILE:HD12	1.99	0.44
2:I:2017:PHE:CE2	2:I:2021:LEU:HD11	2.52	0.44
2:J:870:THR:HG21	2:J:1064:THR:O	2.18	0.44
2:J:938:MET:CE	2:J:959:THR:HA	2.47	0.44
2:J:1115:TYR:CZ	2:J:1174:ALA:HB2	2.52	0.44
2:J:1445:THR:HG23	2:J:1498:PHE:HB2	1.99	0.44
2:J:1899:ALA:O	2:J:1903:VAL:HG23	2.17	0.44
2:K:26:LEU:HD23	2:K:26:LEU:HA	1.85	0.44
2:K:270:ARG:HG3	2:K:274:GLU:OE1	2.17	0.44
2:K:440:HIS:CD2	2:K:499:VAL:CG2	3.01	0.44
2:K:737:PHE:O	2:K:773:ASN:HB3	2.17	0.44
2:K:1146:LEU:O	2:K:1201:GLY:HA2	2.18	0.44
2:K:1248:GLU:HA	2:K:1248:GLU:OE1	2.16	0.44
2:K:1276:GLU:HB3	2:K:1278:MET:HE2	1.99	0.44
2:K:1694:PHE:CD2	2:K:1843:ALA:CA	2.98	0.44
2:K:1910:VAL:HG11	2:K:1973:ILE:HG21	2.00	0.44
2:L:472:THR:H	2:L:493:MET:HE3	1.82	0.44
2:L:787:ASP:C	2:L:790:PRO:HD2	2.43	0.44
2:L:1404:VAL:CG2	2:L:1413:VAL:HG22	2.42	0.44
2:L:1799:LEU:C	2:L:1801:SER:H	2.25	0.44
1:A:398:VAL:HG22	1:A:710:VAL:HG22	1.99	0.44
1:A:617:LEU:HD11	1:A:636:TYR:HB2	1.99	0.44
1:A:728:TYR:CE2	1:A:736:LEU:HD13	2.52	0.44
1:B:767:HIS:CG	1:B:813:LEU:HD12	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:831:GLU:HG2	1:E:755:GLU:CG	2.44	0.44
1:B:1052:ASP:HB3	1:B:1055:THR:HG23	2.00	0.44
1:B:1071:TYR:C	1:B:1071:TYR:HD2	2.24	0.44
1:B:1338:GLY:H	1:B:1340:MET:HG3	1.83	0.44
1:B:1544:HIS:CG	1:B:1544:HIS:O	2.70	0.44
1:C:995:VAL:CG1	1:C:1375:ILE:HG23	2.48	0.44
1:C:1038:HIS:CE1	1:C:1042:LEU:HG	2.53	0.44
1:D:655:ALA:HB2	1:D:742:TYR:HB2	2.00	0.44
1:D:900:ASP:C	1:D:901:LEU:HD23	2.42	0.44
1:E:490:VAL:HG12	1:E:490:VAL:O	2.17	0.44
1:E:1158:ARG:HD2	1:E:1324:THR:HB	1.99	0.44
1:E:1472:GLU:O	1:E:1475:GLU:HB2	2.18	0.44
1:E:1574:LEU:O	1:E:1578:LEU:HG	2.18	0.44
1:F:1457:GLU:H	1:F:1457:GLU:HG3	1.41	0.44
2:G:196:PHE:HD2	2:G:266:LYS:CB	2.30	0.44
2:G:274:GLU:O	2:G:278:ARG:HG2	2.18	0.44
2:G:476:GLN:HG2	2:G:476:GLN:H	1.64	0.44
2:G:594:MET:HE1	2:G:604:MET:HB3	2.00	0.44
2:G:1130:ILE:HD12	2:G:1133:LEU:HD22	1.99	0.44
2:G:1938:THR:HG22	2:G:1977:ARG:HA	2.00	0.44
2:H:625:GLY:C	2:H:656:ARG:HH22	2.25	0.44
2:H:796:TRP:HZ2	2:H:805:MET:HE2	1.82	0.44
2:H:834:ASP:O	2:H:836:PRO:HD3	2.18	0.44
2:H:911:GLN:HE21	2:H:1064:THR:HG23	1.83	0.44
2:H:1521:GLU:OE1	2:H:1521:GLU:HA	2.18	0.44
2:H:1572:ARG:HG2	2:H:1647:ASP:O	2.17	0.44
2:H:1886:VAL:CG1	2:H:1900:LEU:HD11	2.46	0.44
2:H:1932:ASP:OD2	2:H:1934:ARG:HD2	2.17	0.44
2:H:2057:GLU:HA	2:H:2060:ARG:HH12	1.80	0.44
2:I:161:ALA:HA	2:I:164:GLU:HB2	2.00	0.44
2:I:357:THR:HG22	2:I:359:SER:H	1.83	0.44
2:I:866:HIS:HB3	2:I:1068:GLN:O	2.17	0.44
2:I:1099:LEU:HD12	2:I:1103:TYR:HB2	1.98	0.44
2:I:1265:TYR:CE2	2:I:1267:PRO:HG3	2.52	0.44
2:I:1266:HIS:CD2	2:I:1266:HIS:N	2.86	0.44
2:I:1301:PHE:HD1	2:I:1364:ARG:HG2	1.83	0.44
2:I:2063:GLY:O	2:I:2065:PRO:HD3	2.16	0.44
2:J:350:MET:CE	2:J:435:ILE:HD12	2.41	0.44
2:J:608:MET:HE2	2:J:611:THR:OG1	2.17	0.44
2:J:930:THR:HG23	2:J:933:GLU:H	1.80	0.44
2:J:957:LYS:HE2	2:J:1022:ARG:HH22	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1086:ILE:O	2:J:1090:ILE:HG13	2.17	0.44
2:J:1248:GLU:HB2	2:J:1596:PHE:CE1	2.52	0.44
2:J:1637:VAL:HG11	2:J:1679:LEU:HD22	2.00	0.44
2:J:2013:GLY:C	2:J:2016:PRO:HD2	2.42	0.44
2:K:113:PHE:CD1	2:K:113:PHE:N	2.84	0.44
2:K:381:SER:HB2	2:K:440:HIS:HB2	1.99	0.44
2:K:889:SER:C	2:K:891:ARG:H	2.25	0.44
2:K:1261:PHE:HA	2:K:1284:ARG:NH1	2.33	0.44
2:K:1346:MET:HG2	2:K:1617:ARG:NH2	2.33	0.44
2:K:1382:MET:HE2	2:K:1382:MET:HB3	1.69	0.44
2:K:1496:VAL:HG23	2:K:1507:VAL:HG12	2.00	0.44
2:K:1818:PHE:HE2	2:K:1822:ARG:HH12	1.63	0.44
2:L:35:PHE:CE1	2:L:105:ILE:HD13	2.51	0.44
2:L:399:TYR:CE2	2:L:403:LEU:HD11	2.52	0.44
2:L:440:HIS:CD2	2:L:499:VAL:HG23	2.52	0.44
2:L:580:LEU:CD2	2:L:1095:ILE:HG22	2.47	0.44
2:L:837:GLY:HA3	2:L:1074:LYS:HG2	1.99	0.44
2:L:1382:MET:HB3	2:L:1633:ARG:NH1	2.32	0.44
1:A:414:TYR:CE2	1:A:418:ILE:CD1	3.00	0.44
1:A:537:ASN:HB2	1:A:608:LYS:HB2	1.98	0.44
1:A:1001:GLU:O	1:A:1002:ILE:HD12	2.18	0.44
1:A:1086:PHE:CZ	1:A:1310:PHE:HD2	2.35	0.44
1:A:1447:VAL:HG21	1:A:1467:LEU:HD11	2.00	0.44
1:A:1544:HIS:O	1:A:1544:HIS:CD2	2.71	0.44
1:B:577:LEU:CD2	1:B:584:ILE:HG21	2.47	0.44
1:B:1388:LYS:HD3	1:D:1692:GLN:NE2	2.33	0.44
1:C:81:TYR:HE1	2:I:1821:MET:HE3	1.76	0.44
1:C:1001:GLU:HG2	1:C:1008:ALA:HB2	2.00	0.44
1:C:1149:LEU:HD12	1:F:1097:LEU:HD13	1.98	0.44
1:C:1213:VAL:CG1	1:C:1217:GLU:HB2	2.47	0.44
1:C:1321:MET:HE1	1:F:1251:GLN:HG3	1.98	0.44
1:D:36:LEU:O	1:D:76:ARG:NH2	2.49	0.44
1:D:539:THR:O	1:D:542:GLN:HG2	2.18	0.44
1:D:1294:ILE:HD11	1:D:1302:CYS:HB3	1.99	0.44
1:E:1004:PRO:HD3	1:E:1572:TRP:HH2	1.81	0.44
1:E:1148:LEU:HD23	1:E:1148:LEU:HA	1.77	0.44
1:F:967:PHE:CE2	1:F:1374:PRO:HG3	2.52	0.44
1:F:1001:GLU:HG2	1:F:1008:ALA:HB2	1.98	0.44
1:F:1473:HIS:C	1:F:1473:HIS:ND1	2.75	0.44
2:G:38:PRO:CD	2:G:104:LEU:HD11	2.43	0.44
2:G:357:THR:HG22	2:G:359:SER:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:440:HIS:CD2	2:G:499:VAL:CG2	3.00	0.44
2:G:615:TRP:HA	2:G:618:VAL:CG1	2.47	0.44
2:G:796:TRP:HZ2	2:G:805:MET:HE2	1.82	0.44
2:H:192:THR:C	2:H:194:PRO:HD3	2.41	0.44
2:H:321:ARG:HE	2:H:450:HIS:HB3	1.82	0.44
2:H:381:SER:HB2	2:H:440:HIS:HB2	1.98	0.44
2:H:590:VAL:CG2	2:H:1091:HIS:CD2	3.00	0.44
2:H:609:THR:CB	2:H:610:PRO:HD3	2.47	0.44
2:H:791:TYR:HA	2:H:796:TRP:HD1	1.80	0.44
2:H:979:LEU:CD2	2:H:999:ALA:HB3	2.44	0.44
2:H:1266:HIS:CE1	2:H:1275:ARG:CD	2.92	0.44
2:H:1335:PHE:N	2:H:1335:PHE:CD1	2.85	0.44
2:I:582:LYS:HG3	2:I:1110:VAL:CG1	2.47	0.44
2:I:942:MET:CE	2:I:955:LEU:HB3	2.39	0.44
2:I:1350:ILE:O	2:I:1354:TRP:HB2	2.17	0.44
2:I:1558:GLU:O	2:I:1560:PRO:HD3	2.17	0.44
2:I:1896:THR:CG2	2:I:1897:GLU:N	2.80	0.44
2:I:1904:VAL:HG22	2:I:1939:LEU:CD2	2.47	0.44
2:J:22:ARG:HD2	2:J:42:HIS:CB	2.48	0.44
2:J:505:THR:O	2:J:507:PHE:N	2.47	0.44
2:J:762:LEU:HD11	2:J:800:PHE:CB	2.48	0.44
2:J:785:SER:O	2:J:789:TYR:HB2	2.16	0.44
2:J:894:GLU:O	2:J:897:LYS:HG2	2.17	0.44
2:J:1048:TRP:CE2	2:J:1049:GLN:HG2	2.52	0.44
2:J:1157:VAL:O	2:J:1161:MET:HG3	2.17	0.44
2:J:1249:GLY:HA2	2:J:1256:VAL:HG22	1.98	0.44
2:J:1325:VAL:HG22	2:J:1335:PHE:CD2	2.52	0.44
2:J:1351:VAL:HG21	2:J:1583:VAL:O	2.18	0.44
2:J:1811:THR:HG23	2:J:1842:SER:HB3	2.00	0.44
2:K:601:PRO:HA	2:K:602:PRO:HD3	1.87	0.44
2:K:1248:GLU:HB2	2:K:1596:PHE:CE1	2.53	0.44
2:K:1290:TYR:CG	2:K:1299:VAL:CG1	2.92	0.44
2:K:1818:PHE:HE2	2:K:1822:ARG:NH1	2.16	0.44
2:L:211:LEU:HB3	2:L:316:PHE:CZ	2.51	0.44
2:L:422:THR:HG23	2:L:844:GLU:OE2	2.18	0.44
2:L:605:VAL:HB	2:L:628:ILE:CG1	2.41	0.44
2:L:1084:LYS:O	2:L:1088:ASP:HB2	2.17	0.44
2:L:1189:THR:O	2:L:1191:PRO:HD3	2.18	0.44
2:L:1246:LEU:O	2:L:1258:PRO:HA	2.17	0.44
2:L:1637:VAL:HG11	2:L:1679:LEU:HD22	1.98	0.44
2:L:1881:TYR:HB2	2:L:2004:PRO:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:ARG:NH2	1:A:72:THR:HG22	2.32	0.44
1:A:718:SER:HB3	1:A:721:ASP:HB2	2.00	0.44
1:B:31:THR:HG23	2:H:2040:ILE:HG21	2.00	0.44
1:B:612:ILE:HA	1:B:628:TYR:HE2	1.83	0.44
1:B:631:LYS:O	1:B:635:ILE:HG13	2.17	0.44
1:B:1386:THR:O	1:D:1270:THR:HA	2.17	0.44
1:C:447:PHE:HA	1:C:1550:GLY:O	2.17	0.44
1:C:612:ILE:HA	1:C:613:PRO:HD3	1.84	0.44
1:C:1275:THR:HA	1:C:1276:PRO:HD3	1.70	0.44
1:D:447:PHE:CE1	1:D:451:HIS:NE2	2.86	0.44
1:D:767:HIS:CG	1:D:813:LEU:HD12	2.52	0.44
1:D:1288:ASP:O	1:D:1291:TYR:HB3	2.17	0.44
1:E:40:ARG:NH2	1:E:72:THR:HG22	2.32	0.44
1:E:902:ASN:C	1:E:904:GLY:H	2.25	0.44
1:E:929:ARG:O	1:E:933:ILE:HG13	2.18	0.44
1:E:1175:VAL:HA	1:E:1176:PRO:HD3	1.83	0.44
1:E:1249:ILE:HD12	1:E:1250:LEU:N	2.32	0.44
1:F:29:ILE:HG12	2:L:1920:TYR:C	2.43	0.44
1:F:1338:GLY:H	1:F:1340:MET:HG3	1.83	0.44
1:F:1378:ILE:HD11	1:F:1642:LEU:HB2	1.99	0.44
1:F:1491:ASN:HD22	1:F:1491:ASN:N	2.15	0.44
2:G:117:ASN:OD1	2:G:561:ARG:HG3	2.18	0.44
2:G:441:SER:C	2:G:443:TYR:H	2.26	0.44
2:G:465:LEU:HA	2:G:465:LEU:HD23	1.73	0.44
2:G:664:TYR:CD1	2:G:670:MET:HE1	2.53	0.44
2:G:783:GLY:HA2	2:G:815:ARG:HD3	1.98	0.44
2:G:821:GLU:H	2:G:821:GLU:HG2	1.39	0.44
2:G:854:VAL:HG21	2:G:1070:PRO:CA	2.45	0.44
2:G:1269:ALA:HB1	2:G:1271:TYR:CE2	2.53	0.44
2:H:776:LEU:HG	2:H:807:PHE:CD2	2.52	0.44
2:H:1206:ILE:O	2:H:1209:PRO:HG3	2.18	0.44
2:H:1346:MET:HE2	2:H:1346:MET:HB3	1.79	0.44
2:H:1637:VAL:CG1	2:H:1679:LEU:HD22	2.48	0.44
2:I:835:ALA:HB3	2:I:1073:ALA:HB1	1.99	0.44
2:I:990:TYR:N	2:I:991:PRO:CD	2.81	0.44
2:I:1382:MET:HB3	2:I:1633:ARG:NH1	2.33	0.44
2:I:1588:ASN:HD21	2:I:1590:ILE:HD12	1.83	0.44
2:I:1807:GLN:NE2	2:I:1867:MET:HE2	2.33	0.44
2:I:1874:ASP:OD1	2:I:1878:ARG:HB3	2.17	0.44
2:J:48:LEU:HB2	2:J:79:TYR:OH	2.18	0.44
2:J:189:ILE:HD12	2:J:256:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:718:PRO:HG2	2:J:741:LEU:HD11	2.00	0.44
2:J:737:PHE:HA	2:J:738:PRO:HD3	1.83	0.44
2:J:914:TRP:CD1	2:J:916:GLY:CA	2.95	0.44
2:J:1031:VAL:HA	2:J:1032:PRO:HD3	1.65	0.44
2:K:22:ARG:HD2	2:K:42:HIS:CB	2.48	0.44
2:K:68:GLU:HB3	2:K:69:PRO:HD2	2.00	0.44
2:K:787:ASP:O	2:K:790:PRO:HD2	2.18	0.44
2:K:871:ARG:HB2	2:K:909:ASP:HB2	1.99	0.44
2:K:1099:LEU:HD12	2:K:1103:TYR:CB	2.47	0.44
2:K:1250:ARG:H	2:K:1250:ARG:CD	2.29	0.44
2:K:1266:HIS:CD2	2:K:1266:HIS:N	2.85	0.44
2:K:1456:LEU:HD23	2:K:1457:HIS:N	2.32	0.44
2:K:1637:VAL:CG1	2:K:1679:LEU:HD22	2.48	0.44
2:K:1690:THR:HG22	2:K:1691:ALA:N	2.32	0.44
2:K:1700:GLN:O	2:K:1700:GLN:HG2	2.18	0.44
2:K:1863:ARG:HB2	2:K:2017:PHE:HE1	1.83	0.44
2:K:1953:ILE:O	2:K:1957:MET:HG2	2.17	0.44
2:L:70:SER:HB2	2:L:74:GLU:OE2	2.18	0.44
2:L:468:PRO:HB3	2:L:477:ASP:OD2	2.17	0.44
2:L:674:ILE:HB	2:L:675:PRO:HD3	2.00	0.44
2:L:821:GLU:H	2:L:821:GLU:HG2	1.43	0.44
2:L:932:ALA:O	2:L:935:VAL:HG13	2.17	0.44
2:L:1093:ASP:O	2:L:1097:PHE:HB2	2.17	0.44
2:L:1316:VAL:HG13	2:L:1348:PHE:CE2	2.52	0.44
2:L:1507:VAL:O	2:L:1531:GLU:HA	2.18	0.44
1:A:679:LYS:HG2	1:A:708:GLN:CB	2.42	0.44
1:A:869:ARG:O	1:A:903:GLY:HA3	2.17	0.44
1:A:921:GLU:HG3	1:A:922:ILE:H	1.83	0.44
1:A:992:LYS:HE2	1:E:1495:ARG:NH1	2.32	0.44
1:A:1175:VAL:HA	1:A:1176:PRO:HD3	1.82	0.44
1:A:1457:GLU:H	1:A:1457:GLU:HG3	1.37	0.44
1:A:1491:ASN:HD22	1:A:1491:ASN:N	2.16	0.44
1:A:1541:GLN:HE22	1:A:1633:GLN:HE22	1.65	0.44
1:B:343:ILE:O	1:B:347:LEU:HG	2.18	0.44
1:B:689:ARG:HH21	1:B:1591:ASN:ND2	2.16	0.44
1:B:1232:LEU:HD21	1:D:1232:LEU:HD11	2.00	0.44
1:B:1467:LEU:O	1:B:1471:THR:HG23	2.18	0.44
1:C:72:THR:O	1:C:73:SER:HB3	2.18	0.44
1:C:1097:LEU:HD13	1:F:1149:LEU:HD12	1.99	0.44
1:C:1137:GLN:NE2	1:C:1137:GLN:HA	2.33	0.44
1:D:997:THR:CB	1:D:1363:MET:HE2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1129:ILE:HA	1:D:1139:THR:O	2.18	0.44
1:D:1154:LEU:HD23	1:D:1154:LEU:HA	1.77	0.44
1:D:1674:ILE:HD12	2:J:1010:ALA:HB3	2.00	0.44
1:E:22:PHE:O	2:K:2010:LEU:HD12	2.18	0.44
1:E:36:LEU:O	1:E:76:ARG:NH2	2.49	0.44
1:E:1565:PRO:CG	1:E:1572:TRP:CZ3	2.99	0.44
1:F:30:GLU:H	1:F:30:GLU:HG3	1.53	0.44
1:F:75:GLN:NE2	2:K:335:THR:HG23	2.33	0.44
1:F:667:ALA:O	1:F:670:LEU:HB3	2.18	0.44
1:F:718:SER:HB3	1:F:721:ASP:HB2	1.98	0.44
1:F:1055:THR:OG1	1:F:1057:GLU:HG2	2.17	0.44
2:G:1333:GLU:HG3	2:G:1338:ARG:HD2	1.99	0.44
2:G:1426:VAL:HG12	2:G:1427:MET:HG2	1.99	0.44
2:G:1496:VAL:HG23	2:G:1507:VAL:HG12	2.00	0.44
2:G:1886:VAL:HG11	2:G:1900:LEU:HD11	2.00	0.44
2:H:43:PHE:CD2	2:I:22:ARG:NE	2.85	0.44
2:H:43:PHE:HD2	2:I:22:ARG:HG2	1.75	0.44
2:H:120:HIS:CD2	2:H:137:VAL:HG11	2.52	0.44
2:H:718:PRO:HG2	2:H:741:LEU:CD1	2.47	0.44
2:H:787:ASP:C	2:H:790:PRO:HD2	2.42	0.44
2:H:876:TRP:C	2:H:876:TRP:HD1	2.22	0.44
2:H:1047:LEU:O	2:H:1049:GLN:N	2.51	0.44
2:H:1179:GLU:CD	2:H:1179:GLU:N	2.67	0.44
2:H:1250:ARG:H	2:H:1250:ARG:CD	2.31	0.44
2:H:1588:ASN:HD21	2:H:1590:ILE:HD12	1.83	0.44
2:I:22:ARG:HD2	2:I:42:HIS:CB	2.47	0.44
2:I:190:TYR:CE1	2:I:201:ILE:HG21	2.52	0.44
2:I:485:ASP:HB2	2:I:488:PRO:HD2	1.93	0.44
2:I:605:VAL:HG22	2:I:816:MET:HG3	1.98	0.44
2:I:938:MET:CE	2:I:959:THR:HA	2.48	0.44
2:I:980:LEU:HB2	2:I:996:ILE:CD1	2.48	0.44
2:I:1236:LEU:O	2:I:1237:VAL:HG23	2.18	0.44
2:I:1266:HIS:C	2:I:1268:GLU:H	2.26	0.44
2:I:1925:MET:HE2	2:I:1925:MET:HB3	1.87	0.44
2:I:1933:LEU:O	2:I:1989:LEU:HD11	2.18	0.44
2:I:1975:GLU:O	2:I:1979:GLN:HG3	2.16	0.44
2:J:608:MET:HE1	2:J:817:MET:CG	2.48	0.44
2:J:759:GLN:N	2:J:760:PRO:CD	2.81	0.44
2:J:1383:VAL:HG13	2:J:1384:PRO:HD2	2.00	0.44
2:J:1391:VAL:C	2:J:1393:ASP:H	2.26	0.44
2:J:1491:ARG:C	2:J:1492:LEU:HD23	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:36:LEU:HA	2:K:36:LEU:HD23	1.77	0.44
2:K:118:ASP:OD2	2:K:559:PHE:HB2	2.18	0.44
2:K:137:VAL:O	2:K:141:TYR:HD1	2.00	0.44
2:K:251:PRO:HG3	2:K:316:PHE:N	2.32	0.44
2:K:271:GLU:HG2	2:K:301:TRP:NE1	2.33	0.44
2:K:342:ASN:HB2	2:K:406:ARG:NH2	2.32	0.44
2:K:485:ASP:HB2	2:K:488:PRO:HD2	1.95	0.44
2:K:589:PHE:CD1	2:K:1116:PHE:CD2	3.06	0.44
2:K:895:LEU:HD13	2:K:1034:LEU:HB3	2.00	0.44
2:K:1276:GLU:OE1	2:K:1278:MET:HE1	2.17	0.44
2:K:1335:PHE:N	2:K:1335:PHE:HD1	2.15	0.44
2:L:80:ILE:HG12	2:L:105:ILE:CG2	2.47	0.44
2:L:215:TRP:HE3	2:L:216:ASP:N	2.09	0.44
2:L:452:LEU:HD21	2:L:488:PRO:HA	1.98	0.44
2:L:788:THR:CG2	2:L:1094:HIS:CE1	3.01	0.44
2:L:1903:VAL:O	2:L:1907:ILE:HG13	2.17	0.44
2:L:1915:LEU:HD13	2:L:1936:LEU:HD22	1.99	0.44
1:A:59:ARG:NH1	2:G:1925:MET:HE2	2.33	0.44
1:A:486:VAL:CG1	1:A:647:GLY:HA3	2.43	0.44
1:A:1185:PRO:O	1:A:1188:LEU:HB2	2.18	0.44
1:B:759:ILE:O	1:E:776:ARG:NH1	2.48	0.44
1:B:871:PHE:N	1:B:871:PHE:CD1	2.86	0.44
1:B:900:ASP:C	1:B:901:LEU:HD23	2.43	0.44
1:B:1107:GLU:HA	1:B:1108:PRO:HD3	1.74	0.44
1:B:1287:LEU:HA	1:B:1304:VAL:HG11	1.99	0.44
1:B:1581:LEU:HD13	1:B:1638:HIS:HA	1.99	0.44
1:C:21:GLN:O	2:I:2006:HIS:HD2	2.00	0.44
1:C:26:VAL:HG21	2:I:2006:HIS:CE1	2.52	0.44
1:C:444:LEU:HD22	1:C:448:MET:HG2	1.99	0.44
1:C:850:THR:C	1:C:852:LEU:H	2.25	0.44
1:C:1544:HIS:O	1:C:1544:HIS:CG	2.69	0.44
1:D:421:ARG:HH22	1:D:1613:LYS:HG3	1.81	0.44
1:D:714:PHE:CE1	1:D:725:LEU:HD12	2.52	0.44
1:D:792:THR:HB	2:I:1748:HIS:O	2.17	0.44
1:D:1001:GLU:O	1:D:1002:ILE:HD12	2.18	0.44
1:E:689:ARG:NH1	1:E:1339:GLU:OE2	2.50	0.44
1:F:859:VAL:O	1:F:863:VAL:HG23	2.18	0.44
2:G:613:VAL:N	2:G:614:PRO:HD3	2.32	0.44
2:G:1199:THR:HB	2:G:1202:MET:HB3	1.99	0.44
2:G:1803:THR:O	2:G:1804:GLN:C	2.61	0.44
2:G:1910:VAL:HG11	2:G:1973:ILE:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:26:LEU:HD23	2:H:26:LEU:HA	1.86	0.44
2:H:196:PHE:HD2	2:H:266:LYS:CB	2.30	0.44
2:H:595:SER:CB	2:H:602:PRO:HG3	2.32	0.44
2:H:889:SER:C	2:H:891:ARG:H	2.26	0.44
2:H:1123:ALA:HB3	2:H:1126:GLU:HG3	1.99	0.44
2:H:1799:LEU:C	2:H:1801:SER:H	2.24	0.44
2:H:2017:PHE:HE2	2:H:2021:LEU:HD11	1.83	0.44
2:I:36:LEU:HD23	2:I:36:LEU:HA	1.76	0.44
2:I:38:PRO:CD	2:I:104:LEU:HD11	2.41	0.44
2:I:740:ILE:HD12	2:I:740:ILE:N	2.32	0.44
2:I:914:TRP:O	2:I:916:GLY:N	2.45	0.44
2:I:957:LYS:HE2	2:I:1022:ARG:HH22	1.82	0.44
2:I:1106:LYS:HB2	2:I:1109:ASN:ND2	2.33	0.44
2:I:1305:LEU:HD23	2:I:1366:ILE:HD11	2.00	0.44
2:I:1372:LYS:O	2:I:1436:ARG:HG2	2.18	0.44
2:I:1953:ILE:O	2:I:1957:MET:HG2	2.17	0.44
2:J:170:TYR:CD2	2:J:507:PHE:HB3	2.53	0.44
2:J:182:TYR:CD1	2:J:183:PHE:N	2.85	0.44
2:J:262:MET:HE3	2:J:262:MET:HB3	1.70	0.44
2:J:291:VAL:O	2:J:295:ILE:HB	2.16	0.44
2:J:590:VAL:CG2	2:J:1091:HIS:CD2	2.99	0.44
2:J:615:TRP:CE3	2:J:647:LYS:HB3	2.53	0.44
2:K:253:ILE:HB	2:K:287:GLN:NE2	2.33	0.44
2:K:433:LEU:HA	2:K:434:PRO:HD3	1.85	0.44
2:K:444:LEU:HD23	2:K:444:LEU:HA	1.73	0.44
2:K:762:LEU:HD11	2:K:800:PHE:CB	2.48	0.44
2:K:870:THR:HG21	2:K:1064:THR:O	2.18	0.44
2:K:872:GLY:HA2	2:K:909:ASP:O	2.18	0.44
2:K:1323:ASP:C	2:K:1583:VAL:HG11	2.43	0.44
2:K:1558:GLU:O	2:K:1560:PRO:HD3	2.18	0.44
2:K:1886:VAL:CG1	2:K:1900:LEU:HD11	2.48	0.44
2:K:1901:GLN:HB3	2:K:1905:GLU:OE2	2.18	0.44
3:K:2101:FMN:H9	3:K:2101:FMN:H1'2	1.80	0.44
2:L:120:HIS:CD2	2:L:137:VAL:HG11	2.53	0.44
2:L:128:GLY:HA2	2:L:133:LYS:NZ	2.33	0.44
2:L:401:LEU:HD22	2:L:405:LEU:HG	1.99	0.44
2:L:911:GLN:HE21	2:L:1064:THR:HG23	1.82	0.44
2:L:1374:VAL:CG2	2:L:1436:ARG:NE	2.80	0.44
2:L:1977:ARG:CD	2:L:1978:LYS:HE3	2.47	0.44
2:L:2057:GLU:HA	2:L:2060:ARG:HH12	1.81	0.44
2:L:2058:VAL:CG1	2:L:2067:ILE:HD12	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:21:GLN:HE21	1:A:21:GLN:HB3	1.57	0.44
1:A:1143:ARG:HH21	1:B:356:LYS:NZ	2.16	0.44
1:B:454:HIS:CD2	1:B:454:HIS:N	2.86	0.44
1:B:991:ASP:HA	1:B:1364:THR:CG2	2.48	0.44
1:C:901:LEU:HD23	1:C:901:LEU:N	2.33	0.44
1:C:967:PHE:CD2	1:C:1662:GLN:HB2	2.53	0.44
1:D:414:TYR:O	1:D:418:ILE:HG13	2.17	0.44
1:D:626:TRP:CZ3	1:D:898:PHE:HB2	2.53	0.44
1:D:1601:GLN:HB2	1:D:1602:PHE:CD2	2.53	0.44
1:E:1186:VAL:HG12	1:E:1187:THR:N	2.33	0.44
1:F:72:THR:O	1:F:73:SER:HB3	2.18	0.44
1:F:577:LEU:HD22	1:F:585:MET:HE3	2.00	0.44
1:F:655:ALA:O	1:F:680:VAL:HA	2.18	0.44
1:F:1078:ILE:HB	1:F:1338:GLY:HA3	1.96	0.44
1:F:1158:ARG:HD2	1:F:1324:THR:HB	1.99	0.44
1:F:1185:PRO:O	1:F:1188:LEU:HB2	2.18	0.44
1:F:1467:LEU:O	1:F:1471:THR:HG23	2.18	0.44
2:G:27:THR:HG22	2:G:32:GLU:HG2	2.00	0.44
2:G:182:TYR:CD1	2:G:182:TYR:C	2.95	0.44
2:G:604:MET:HE1	2:G:777:VAL:HG11	2.00	0.44
2:G:943:TYR:OH	2:G:948:LYS:HA	2.18	0.44
2:G:1335:PHE:N	2:G:1335:PHE:HD1	2.16	0.44
2:G:1338:ARG:NH1	2:I:326:TYR:CE2	2.86	0.44
2:G:1353:GLY:CA	2:G:1397:THR:HG21	2.44	0.44
2:H:289:ILE:HG21	2:H:493:MET:CE	2.48	0.44
2:H:894:GLU:O	2:H:897:LYS:HG2	2.17	0.44
2:H:1276:GLU:HB3	2:H:1278:MET:HE2	2.00	0.44
2:H:1637:VAL:HG11	2:H:1679:LEU:HD22	2.00	0.44
2:I:505:THR:O	2:I:505:THR:CG2	2.66	0.44
2:I:580:LEU:HD12	2:I:1103:TYR:CD2	2.53	0.44
2:I:657:GLY:HA3	2:I:688:GLU:HG2	2.00	0.44
2:I:796:TRP:CG	2:I:797:SER:N	2.85	0.44
2:I:1207:THR:O	2:I:1215:THR:HA	2.18	0.44
2:I:1391:VAL:C	2:I:1393:ASP:H	2.26	0.44
2:I:1404:VAL:CG2	2:I:1413:VAL:HG22	2.44	0.44
2:J:286:SER:OG	2:J:440:HIS:NE2	2.50	0.44
2:J:657:GLY:HA3	2:J:688:GLU:HG2	2.00	0.44
2:J:1265:TYR:CE2	2:J:1267:PRO:HG3	2.51	0.44
2:J:1325:VAL:HG22	2:J:1335:PHE:HD2	1.82	0.44
2:J:1588:ASN:HA	2:J:1589:PRO:HD3	1.87	0.44
2:K:376:ARG:NH2	2:L:1339:GLY:HA2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:452:LEU:HD21	2:K:488:PRO:HA	1.99	0.44
2:K:752:HIS:CD2	2:K:866:HIS:ND1	2.86	0.44
2:K:858:LEU:HD23	2:K:864:PRO:HA	2.00	0.44
2:K:1181:PHE:CD1	2:K:1191:PRO:HD2	2.53	0.44
2:K:2013:GLY:C	2:K:2016:PRO:HD2	2.43	0.44
2:L:258:LEU:CD1	2:L:291:VAL:HG13	2.47	0.44
2:L:872:GLY:HA2	2:L:909:ASP:O	2.18	0.44
2:L:1017:LEU:O	2:L:1021:GLN:HG3	2.18	0.44
2:L:1362:PHE:O	2:L:1363:PRO:O	2.36	0.44
2:L:2062:THR:HG22	2:L:2064:SER:N	2.33	0.44
1:A:511:VAL:HG12	1:A:512:PRO:HD2	2.00	0.43
1:A:739:ASP:OD2	1:A:790:TYR:CG	2.71	0.43
1:A:1695:VAL:HG11	1:A:1713:PHE:CE2	2.53	0.43
1:B:40:ARG:HH21	1:B:72:THR:HG22	1.82	0.43
1:B:350:ASP:HB3	1:B:353:ALA:HB2	2.00	0.43
1:B:874:GLN:H	1:B:874:GLN:HG2	1.39	0.43
1:B:1389:ILE:HD13	1:D:1682:LYS:HB3	1.98	0.43
1:C:490:VAL:HG12	1:C:490:VAL:O	2.18	0.43
1:C:1199:LEU:C	1:C:1201:SER:N	2.76	0.43
1:D:526:MET:O	1:D:527:ALA:C	2.61	0.43
1:D:943:VAL:HG12	1:D:944:ASN:OD1	2.18	0.43
1:D:1148:LEU:HD23	1:D:1148:LEU:HA	1.78	0.43
1:E:715:ASN:HD22	1:E:715:ASN:C	2.26	0.43
1:E:1183:VAL:HG13	1:E:1252:GLU:OE1	2.17	0.43
1:E:1301:VAL:HG22	1:E:1302:CYS:H	1.83	0.43
1:F:444:LEU:HD22	1:F:448:MET:HG2	1.99	0.43
1:F:484:PRO:HA	1:F:485:PRO:HD3	1.62	0.43
1:F:743:VAL:O	1:F:745:PRO:HD3	2.18	0.43
1:F:829:TYR:OH	1:F:896:PRO:HD2	2.18	0.43
1:F:1307:PHE:CA	1:F:1568:ALA:HB2	2.48	0.43
1:F:1359:VAL:CG1	1:F:1360:GLN:N	2.81	0.43
2:G:129:ILE:HG12	2:G:131:ALA:HB3	2.00	0.43
2:G:138:ARG:HB3	2:G:192:THR:HG23	1.99	0.43
2:G:192:THR:C	2:G:194:PRO:HD3	2.43	0.43
2:G:208:LEU:HB3	2:G:225:LEU:HD13	1.99	0.43
2:G:289:ILE:HD12	2:G:472:THR:OG1	2.17	0.43
2:G:381:SER:HB2	2:G:440:HIS:HB2	2.00	0.43
2:G:505:THR:O	2:G:507:PHE:N	2.46	0.43
2:G:868:LEU:HD13	2:G:1068:GLN:HG3	1.99	0.43
2:G:1318:ALA:HA	2:G:1391:VAL:CG2	2.47	0.43
2:G:1391:VAL:C	2:G:1393:ASP:H	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2063:GLY:O	2:G:2065:PRO:HD3	2.18	0.43
2:H:476:GLN:HG2	2:H:476:GLN:H	1.63	0.43
2:H:580:LEU:HD12	2:H:1103:TYR:CD2	2.52	0.43
2:H:686:PRO:HB3	2:H:1187:PHE:CE1	2.53	0.43
2:H:990:TYR:N	2:H:991:PRO:CD	2.81	0.43
2:H:1081:GLU:H	2:H:1081:GLU:HG3	1.65	0.43
2:H:1266:HIS:CD2	2:H:1266:HIS:N	2.86	0.43
2:H:1496:VAL:HG23	2:H:1507:VAL:HG12	2.00	0.43
2:H:2017:PHE:CE2	2:H:2021:LEU:HD11	2.53	0.43
2:I:120:HIS:CD2	2:I:137:VAL:CG1	3.01	0.43
2:I:172:ILE:HG22	2:I:514:VAL:O	2.18	0.43
2:I:251:PRO:HG3	2:I:316:PHE:N	2.32	0.43
2:I:286:SER:OG	2:I:440:HIS:NE2	2.51	0.43
2:I:730:ILE:O	2:I:733:ALA:HB3	2.17	0.43
2:I:765:TYR:CD1	2:I:805:MET:HE3	2.52	0.43
2:I:988:GLU:HA	2:I:989:PRO:HD3	1.74	0.43
2:I:1709:TYR:CE2	2:I:1716:LYS:HG2	2.53	0.43
2:I:1729:ASN:HA	2:I:1757:ILE:HD13	2.00	0.43
2:J:113:PHE:N	2:J:113:PHE:CD1	2.86	0.43
2:J:306:THR:O	2:J:310:ARG:HG3	2.17	0.43
2:J:316:PHE:CD2	2:J:316:PHE:C	2.96	0.43
2:J:890:LYS:HE3	2:J:890:LYS:HB2	1.81	0.43
2:J:990:TYR:N	2:J:991:PRO:CD	2.81	0.43
2:J:1248:GLU:OE2	2:J:1250:ARG:HG2	2.18	0.43
2:J:1887:ASN:ND2	2:J:1890:ARG:HG3	2.32	0.43
2:K:192:THR:C	2:K:194:PRO:HD3	2.42	0.43
2:K:196:PHE:CD2	2:K:266:LYS:CB	3.01	0.43
2:K:258:LEU:HD12	2:K:291:VAL:HG13	2.00	0.43
2:K:617:PHE:CZ	2:K:1083:ILE:HD12	2.53	0.43
2:K:741:LEU:HD12	2:K:741:LEU:C	2.43	0.43
2:K:1084:LYS:O	2:K:1088:ASP:HB2	2.18	0.43
2:K:1346:MET:HE2	2:K:1346:MET:HB3	1.78	0.43
2:K:1881:TYR:CG	2:K:2004:PRO:HG3	2.52	0.43
2:K:1915:LEU:HD13	2:K:1936:LEU:HD22	2.00	0.43
2:L:161:ALA:HB1	2:L:166:ASN:HD22	1.83	0.43
2:L:471:ASP:OD1	2:L:493:MET:HE3	2.18	0.43
2:L:615:TRP:HA	2:L:618:VAL:CG1	2.47	0.43
2:L:769:ARG:HD3	2:L:769:ARG:HA	1.79	0.43
2:L:1248:GLU:OE1	2:L:1248:GLU:HA	2.16	0.43
1:A:400:ASP:C	1:A:400:ASP:OD1	2.61	0.43
1:A:954:ARG:HA	2:G:981:GLN:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1083:PRO:HB3	1:A:1089:TYR:O	2.18	0.43
1:A:1425:LEU:CD2	1:A:1429:ARG:HH21	2.16	0.43
1:B:726:VAL:HG21	1:B:780:ALA:CB	2.47	0.43
1:B:759:ILE:HD12	1:B:759:ILE:N	2.33	0.43
1:B:869:ARG:O	1:B:903:GLY:HA3	2.18	0.43
1:B:1137:GLN:HA	1:B:1137:GLN:NE2	2.32	0.43
1:B:1250:LEU:HB2	1:D:1317:GLU:CG	2.44	0.43
1:C:21:GLN:HE21	1:C:21:GLN:HB3	1.60	0.43
1:C:470:GLY:O	1:C:474:ILE:HG13	2.18	0.43
1:C:743:VAL:O	1:C:745:PRO:HD3	2.17	0.43
1:C:1687:TYR:OH	1:F:1388:LYS:HB3	2.18	0.43
1:D:22:PHE:HE2	2:J:2017:PHE:CG	2.36	0.43
1:D:40:ARG:HH21	1:D:72:THR:HG22	1.83	0.43
1:D:46:GLU:HB3	1:D:80:CYS:HA	2.00	0.43
1:D:1386:THR:HG22	1:D:1387:ASP:H	1.84	0.43
1:E:837:LEU:HD12	1:E:837:LEU:HA	1.85	0.43
1:E:983:GLN:O	1:E:1418:ILE:HD11	2.19	0.43
1:F:565:GLN:O	1:F:565:GLN:CG	2.66	0.43
1:F:1106:LEU:HD13	1:F:1142:LEU:HD13	2.00	0.43
2:G:37:VAL:HG11	2:G:42:HIS:HA	2.00	0.43
2:G:215:TRP:HE3	2:G:215:TRP:N	2.16	0.43
2:G:764:MET:O	2:G:765:TYR:C	2.60	0.43
2:G:1259:LEU:HD11	2:G:1285:ILE:HG12	2.00	0.43
2:G:1456:LEU:HD11	2:G:1543:TYR:HE2	1.83	0.43
2:G:1637:VAL:HG11	2:G:1679:LEU:HD22	1.99	0.43
2:H:27:THR:HG22	2:H:32:GLU:HG2	2.00	0.43
2:H:70:SER:HB2	2:H:74:GLU:OE2	2.17	0.43
2:H:253:ILE:HB	2:H:287:GLN:HE22	1.83	0.43
2:H:300:THR:O	2:H:304:PHE:HB2	2.18	0.43
2:H:462:ALA:HB3	2:H:481:LEU:O	2.18	0.43
2:H:652:ILE:CG2	2:H:656:ARG:HB2	2.47	0.43
2:H:691:THR:OG1	2:H:715:SER:HB3	2.18	0.43
2:H:1324:PHE:HA	2:H:1583:VAL:HG11	2.00	0.43
2:H:1818:PHE:HE2	2:H:1822:ARG:HH12	1.65	0.43
2:I:200:LEU:O	2:I:204:ILE:HG13	2.18	0.43
2:I:625:GLY:C	2:I:656:ARG:NH2	2.76	0.43
2:I:1181:PHE:CD1	2:I:1191:PRO:HD2	2.54	0.43
2:I:1442:TYR:HA	2:I:1445:THR:CG2	2.47	0.43
2:I:1445:THR:CG2	2:I:1498:PHE:HB2	2.48	0.43
2:I:1709:TYR:C	2:I:1709:TYR:CD2	2.96	0.43
2:J:161:ALA:HA	2:J:164:GLU:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:37:VAL:HG11	2:K:42:HIS:HA	1.99	0.43
2:K:48:LEU:HB2	2:K:79:TYR:OH	2.19	0.43
2:K:114:MET:HG2	2:K:122:ILE:HG21	2.00	0.43
2:K:221:TYR:CE2	2:K:225:LEU:HD12	2.53	0.43
2:K:270:ARG:HB3	2:K:274:GLU:HB2	2.00	0.43
2:K:731:ALA:CB	2:K:739:ILE:HD12	2.48	0.43
2:K:1351:VAL:HG21	2:K:1583:VAL:O	2.18	0.43
2:K:1799:LEU:C	2:K:1801:SER:H	2.25	0.43
2:K:1813:MET:HG3	2:K:1814:GLU:N	2.32	0.43
2:L:154:TYR:CE1	2:L:561:ARG:NH1	2.86	0.43
2:L:342:ASN:HD22	2:L:342:ASN:N	2.15	0.43
2:L:604:MET:HG3	2:L:627:HIS:O	2.18	0.43
2:L:759:GLN:N	2:L:760:PRO:CD	2.80	0.43
2:L:879:LEU:HB3	2:L:884:PHE:CE1	2.53	0.43
2:L:1362:PHE:N	2:L:1363:PRO:CD	2.81	0.43
2:L:1722:ALA:CB	2:L:1812:LEU:HD11	2.48	0.43
1:A:72:THR:O	1:A:73:SER:HB3	2.18	0.43
1:A:389:PRO:HD3	1:F:374:LEU:HD11	2.00	0.43
1:A:1137:GLN:HA	1:A:1137:GLN:NE2	2.32	0.43
1:B:47:ILE:HD12	2:H:1818:PHE:HD1	1.83	0.43
1:B:444:LEU:HD22	1:B:448:MET:CG	2.49	0.43
1:B:744:VAL:HG12	1:B:746:PHE:CD1	2.53	0.43
1:B:1038:HIS:CE1	1:B:1042:LEU:HG	2.53	0.43
1:B:1149:LEU:HD12	1:D:1097:LEU:CD1	2.48	0.43
1:B:1254:PHE:HB2	1:B:1257:THR:OG1	2.18	0.43
1:B:1386:THR:HG22	1:B:1387:ASP:H	1.83	0.43
1:B:1419:LYS:HA	1:B:1422:ARG:HB2	2.00	0.43
1:C:444:LEU:HD22	1:C:448:MET:CG	2.47	0.43
1:C:1170:ALA:HB3	1:C:1188:LEU:HD13	1.99	0.43
1:D:616:HIS:C	1:D:617:LEU:HD23	2.42	0.43
1:D:1210:TYR:HA	1:D:1213:VAL:O	2.18	0.43
1:E:875:GLU:O	1:E:878:PHE:HB3	2.18	0.43
1:E:996:VAL:HG11	1:E:1578:LEU:CD1	2.48	0.43
2:G:28:HIS:O	2:G:31:LEU:HD12	2.18	0.43
2:G:462:ALA:HB3	2:G:481:LEU:O	2.17	0.43
2:G:727:VAL:HA	2:G:730:ILE:HG12	1.99	0.43
2:G:960:GLY:O	2:G:963:ILE:HB	2.18	0.43
2:H:551:GLU:HG3	2:H:770:LYS:NZ	2.34	0.43
2:H:764:MET:O	2:H:765:TYR:C	2.59	0.43
2:H:857:VAL:HG11	2:H:876:TRP:NE1	2.30	0.43
2:H:914:TRP:CZ3	2:H:1033:ALA:HA	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1157:VAL:HG13	2:H:1197:ALA:HA	2.00	0.43
2:H:1764:MET:HG3	2:H:1781:PHE:CE1	2.53	0.43
2:H:1803:THR:O	2:H:1804:GLN:C	2.61	0.43
2:H:1904:VAL:HG13	2:H:1915:LEU:HG	2.00	0.43
2:I:433:LEU:HA	2:I:434:PRO:HD3	1.88	0.43
2:I:823:HIS:HB3	2:I:1051:GLU:HG3	2.01	0.43
2:I:1932:ASP:OD2	2:I:1934:ARG:HD2	2.18	0.43
2:I:2053:GLU:H	2:I:2053:GLU:HG3	1.51	0.43
2:J:796:TRP:HZ2	2:J:805:MET:HE2	1.82	0.43
2:J:837:GLY:HA3	2:J:1074:LYS:HG2	2.00	0.43
2:J:1410:GLY:HA2	2:J:1437:GLY:O	2.18	0.43
2:J:1910:VAL:HG11	2:J:1973:ILE:HG21	2.01	0.43
2:K:621:THR:OG1	2:K:1083:ILE:HD13	2.18	0.43
2:K:1261:PHE:HE2	2:K:1285:ILE:HD11	1.83	0.43
2:K:1309:PHE:N	2:K:1309:PHE:CD1	2.87	0.43
2:L:541:LEU:HG	2:L:552:VAL:CG1	2.47	0.43
2:L:618:VAL:HG13	2:L:619:ALA:N	2.33	0.43
2:L:1036:GLU:H	2:L:1036:GLU:HG3	1.47	0.43
2:L:1317:ASN:OD1	2:L:1319:GLN:HB3	2.19	0.43
2:L:1382:MET:HG2	2:L:1427:MET:HE2	2.01	0.43
2:L:1472:TRP:CD2	2:L:1540:VAL:HG22	2.53	0.43
2:L:1588:ASN:HA	2:L:1589:PRO:HD3	1.89	0.43
1:A:1037:ASN:HD21	2:G:1011:GLN:HG2	1.83	0.43
1:A:1288:ASP:O	1:A:1291:TYR:HB3	2.18	0.43
1:A:1420:TYR:OH	1:E:1473:HIS:CE1	2.69	0.43
1:B:427:ARG:NH2	1:B:517:ARG:O	2.51	0.43
1:B:962:ASN:HB3	2:H:969:ARG:CD	2.48	0.43
1:B:1708:ASN:OD1	1:B:1710:GLU:HB2	2.17	0.43
1:C:18:LEU:HD13	2:I:1841:TYR:CE2	2.53	0.43
1:C:1249:ILE:HD12	1:C:1250:LEU:N	2.33	0.43
1:C:1473:HIS:CE1	1:F:1420:TYR:OH	2.71	0.43
1:C:1581:LEU:HD13	1:C:1638:HIS:HA	2.00	0.43
1:D:631:LYS:O	1:D:635:ILE:HG13	2.18	0.43
1:D:991:ASP:HA	1:D:1364:THR:CG2	2.48	0.43
1:D:1015:GLU:HA	1:D:1561:LEU:HD12	2.00	0.43
1:D:1090:ASP:C	1:D:1092:ASN:N	2.77	0.43
1:D:1359:VAL:CG1	1:D:1360:GLN:N	2.80	0.43
1:E:728:TYR:CE2	1:E:736:LEU:HD13	2.54	0.43
1:E:1086:PHE:CZ	1:E:1310:PHE:HD2	2.36	0.43
1:E:1343:PRO:HA	1:E:1526:SER:HA	1.99	0.43
1:F:22:PHE:CE2	2:L:2017:PHE:CG	3.04	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:27:ARG:HG3	2:L:2045:ALA:HB2	1.99	0.43
1:F:47:ILE:HD12	2:L:1694:PHE:HE1	1.83	0.43
1:F:574:ILE:HG12	1:F:574:ILE:H	1.69	0.43
1:F:983:GLN:HB3	1:F:1418:ILE:CD1	2.48	0.43
1:F:1484:GLU:O	1:F:1487:THR:HB	2.19	0.43
1:F:1522:PHE:HE2	1:F:1535:SER:HA	1.82	0.43
2:G:253:ILE:HB	2:G:287:GLN:HE22	1.82	0.43
2:G:342:ASN:N	2:G:342:ASN:HD22	2.16	0.43
2:G:866:HIS:HB3	2:G:1068:GLN:O	2.18	0.43
2:G:2038:LYS:HD3	2:G:2038:LYS:HA	1.75	0.43
2:H:186:LEU:CG	2:H:256:VAL:HG22	2.48	0.43
2:H:196:PHE:O	2:H:262:MET:HE1	2.18	0.43
2:H:750:GLY:O	2:H:865:ILE:HA	2.19	0.43
2:H:769:ARG:HD3	2:H:769:ARG:HA	1.81	0.43
2:H:884:PHE:HE2	2:H:1039:GLU:CA	2.30	0.43
2:H:1325:VAL:HG13	2:H:1330:ASN:O	2.17	0.43
2:H:1662:ARG:HG2	2:H:1686:GLU:HG2	2.00	0.43
2:I:182:TYR:CD1	2:I:183:PHE:N	2.86	0.43
2:I:555:LYS:HB3	2:I:556:PRO:HD3	2.00	0.43
2:I:604:MET:HE1	2:I:777:VAL:HG11	1.99	0.43
2:I:609:THR:HG23	3:I:2101:FMN:O4	2.19	0.43
2:I:615:TRP:HA	2:I:618:VAL:CG1	2.48	0.43
2:I:741:LEU:HG	2:I:741:LEU:O	2.19	0.43
2:I:788:THR:CG2	2:I:1094:HIS:CE1	3.01	0.43
2:I:1324:PHE:CA	2:I:1583:VAL:HG11	2.48	0.43
2:I:1515:LEU:HB3	2:I:1525:VAL:HG21	2.01	0.43
2:I:1901:GLN:HB3	2:I:1905:GLU:OE2	2.17	0.43
2:I:1910:VAL:HG11	2:I:1973:ILE:HG21	2.00	0.43
2:J:601:PRO:HA	2:J:602:PRO:HD3	1.82	0.43
2:J:741:LEU:C	2:J:741:LEU:HD12	2.43	0.43
2:J:868:LEU:HD12	2:J:868:LEU:HA	1.80	0.43
2:J:910:PHE:HD2	2:J:912:LYS:H	1.63	0.43
2:J:1156:ASP:HB2	2:J:1159:SER:N	2.18	0.43
2:J:1350:ILE:O	2:J:1354:TRP:HB2	2.17	0.43
2:J:1376:LEU:O	2:J:1639:MET:HG2	2.17	0.43
2:J:1589:PRO:HB2	2:J:1596:PHE:HB3	2.01	0.43
2:K:609:THR:HG23	3:K:2101:FMN:O4	2.18	0.43
2:K:613:VAL:N	2:K:614:PRO:CD	2.80	0.43
2:K:674:ILE:HB	2:K:675:PRO:HD3	2.01	0.43
2:K:1348:PHE:CE1	2:K:1351:VAL:HG11	2.54	0.43
2:K:1804:GLN:CG	2:K:1865:LEU:HD23	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:197:VAL:CG2	2:L:263:ILE:HD11	2.48	0.43
2:L:208:LEU:HB3	2:L:225:LEU:HD13	1.99	0.43
2:L:342:ASN:CB	2:L:406:ARG:NH2	2.81	0.43
2:L:676:LEU:HD23	2:L:679:ARG:NH2	2.33	0.43
2:L:690:LEU:HD22	2:L:691:THR:H	1.82	0.43
2:L:866:HIS:HB3	2:L:1068:GLN:O	2.19	0.43
2:L:890:LYS:HE3	2:L:890:LYS:HB2	1.82	0.43
2:L:1125:ASP:HB2	2:L:1126:GLU:H	1.55	0.43
2:L:1324:PHE:HA	2:L:1583:VAL:HG11	2.00	0.43
2:L:1653:LEU:HD21	2:L:1667:VAL:HG13	2.00	0.43
2:L:2059:HIS:HB2	2:L:2067:ILE:HG21	1.99	0.43
1:A:883:LEU:HA	1:A:888:ILE:HD12	2.01	0.43
1:A:1149:LEU:HD23	1:A:1149:LEU:HA	1.72	0.43
1:B:449:GLN:HG3	1:B:474:ILE:HD13	2.00	0.43
1:B:1509:THR:HG1	1:B:1510:TRP:CD1	2.36	0.43
1:C:673:LEU:HD21	1:C:884:MET:CE	2.48	0.43
1:C:997:THR:HG22	1:C:1361:VAL:HG22	2.01	0.43
1:C:1079:ARG:CG	1:C:1079:ARG:NH1	2.66	0.43
1:C:1177:GLU:O	1:C:1180:ILE:HB	2.19	0.43
1:C:1525:THR:OG1	1:C:1527:THR:HG23	2.18	0.43
1:C:1687:TYR:CD2	1:C:1687:TYR:N	2.86	0.43
1:D:449:GLN:O	1:D:452:ILE:HG22	2.19	0.43
1:D:996:VAL:HG11	1:D:1578:LEU:HD11	2.01	0.43
1:D:1090:ASP:OD1	1:D:1092:ASN:HB2	2.19	0.43
1:D:1301:VAL:HG23	1:D:1363:MET:CG	2.48	0.43
1:D:1432:ILE:HD11	1:D:1481:GLN:CB	2.47	0.43
1:E:1001:GLU:C	1:E:1002:ILE:HD12	2.43	0.43
1:E:1185:PRO:O	1:E:1188:LEU:HB2	2.18	0.43
1:F:405:TRP:HA	1:F:405:TRP:CE3	2.53	0.43
1:F:548:VAL:HG12	1:F:552:ILE:HD12	2.00	0.43
1:F:828:TRP:NE1	1:F:838:THR:HA	2.33	0.43
1:F:859:VAL:HG13	1:F:918:LEU:HD13	1.98	0.43
1:F:997:THR:HG22	1:F:1361:VAL:HG22	1.98	0.43
1:F:1432:ILE:HD11	1:F:1481:GLN:CB	2.49	0.43
2:G:200:LEU:O	2:G:204:ILE:HG13	2.18	0.43
2:G:250:PHE:O	2:G:315:LEU:HD23	2.19	0.43
2:G:325:ALA:C	2:G:327:PRO:HD3	2.43	0.43
2:G:336:LEU:HD23	2:G:336:LEU:C	2.43	0.43
2:G:859:SER:CB	2:G:863:GLU:HG3	2.48	0.43
2:G:1261:PHE:HE2	2:G:1285:ILE:HD11	1.84	0.43
2:G:1863:ARG:HG2	2:G:1863:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:2101:FMN:H9	3:G:2101:FMN:H1'2	1.82	0.43
2:H:114:MET:HG2	2:H:122:ILE:HG21	2.00	0.43
2:H:250:PHE:O	2:H:315:LEU:HD23	2.18	0.43
2:H:875:PHE:HE2	2:H:906:LEU:CD2	2.32	0.43
2:H:1036:GLU:H	2:H:1036:GLU:HG3	1.45	0.43
2:H:1324:PHE:CA	2:H:1583:VAL:HG11	2.48	0.43
2:H:1350:ILE:O	2:H:1354:TRP:HB2	2.19	0.43
2:H:1977:ARG:CD	2:H:1978:LYS:HE3	2.48	0.43
2:I:253:ILE:HB	2:I:287:GLN:HE22	1.83	0.43
2:I:1081:GLU:H	2:I:1081:GLU:HG3	1.64	0.43
2:I:1335:PHE:N	2:I:1335:PHE:CD1	2.86	0.43
2:I:1723:ASP:O	2:I:1724:LYS:C	2.62	0.43
2:I:2077:TYR:O	2:I:2078:GLU:C	2.62	0.43
2:J:788:THR:CG2	2:J:1094:HIS:CE1	3.01	0.43
2:J:791:TYR:HA	2:J:796:TRP:HD1	1.79	0.43
2:J:1504:TYR:HD2	2:J:1507:VAL:HG11	1.82	0.43
2:K:172:ILE:HG23	2:K:515:ASP:HA	2.01	0.43
2:K:1335:PHE:CE1	2:K:1629:ILE:CD1	3.00	0.43
2:K:1419:LEU:HD23	2:K:1419:LEU:HA	1.86	0.43
2:K:1478:GLN:CG	2:K:1479:HIS:N	2.80	0.43
2:L:27:THR:HG22	2:L:32:GLU:HG2	2.01	0.43
2:L:478:LEU:HD22	2:L:481:LEU:HD11	2.00	0.43
2:L:1259:LEU:HD11	2:L:1285:ILE:HG12	2.00	0.43
2:L:1333:GLU:HG3	2:L:1338:ARG:HD2	2.01	0.43
2:L:1687:GLN:O	2:L:1828:GLN:NE2	2.51	0.43
1:A:749:ILE:CD1	1:A:769:ILE:HD12	2.49	0.43
1:A:1078:ILE:HG23	1:A:1352:MET:HE3	2.00	0.43
1:A:1081:ILE:HD12	1:A:1091:PRO:CG	2.48	0.43
1:A:1213:VAL:CG1	1:A:1214:HIS:N	2.79	0.43
1:A:1503:LEU:HD21	1:A:1635:ILE:HD11	2.00	0.43
1:B:11:TYR:HD1	2:H:2030:ILE:HD12	1.82	0.43
1:B:56:MET:HE3	1:B:56:MET:HB2	1.88	0.43
1:B:616:HIS:C	1:B:617:LEU:HD23	2.43	0.43
1:B:1213:VAL:HG22	1:B:1300:ARG:HE	1.84	0.43
1:B:1698:ASN:C	1:B:1700:GLN:H	2.27	0.43
1:C:374:LEU:HD11	1:D:389:PRO:HD3	2.01	0.43
1:C:997:THR:HG21	1:C:1363:MET:HE2	2.01	0.43
1:C:1168:TRP:HE1	1:C:1173:TYR:HE1	1.64	0.43
1:C:1542:LEU:HD23	1:C:1542:LEU:HA	1.82	0.43
1:D:13:LEU:HG	2:J:2048:PHE:CE1	2.53	0.43
1:D:648:LEU:HD12	1:D:649:THR:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1185:PRO:O	1:D:1188:LEU:HB2	2.18	0.43
1:D:1219:GLY:O	1:D:1302:CYS:HA	2.19	0.43
1:D:1686:PRO:HB2	1:D:1713:PHE:CD2	2.53	0.43
1:E:552:ILE:HG21	1:E:566:PHE:CE2	2.52	0.43
1:E:1210:TYR:HA	1:E:1213:VAL:O	2.17	0.43
1:E:1364:THR:HG22	1:E:1366:GLN:N	2.33	0.43
1:E:1447:VAL:HG21	1:E:1467:LEU:HD11	1.99	0.43
1:E:1503:LEU:HD21	1:E:1635:ILE:HD11	2.00	0.43
1:F:755:GLU:C	1:F:757:ASP:N	2.76	0.43
1:F:1038:HIS:CE1	1:F:1042:LEU:HG	2.54	0.43
1:F:1157:ASP:HB3	1:F:1326:ASN:OD1	2.18	0.43
1:F:1620:PHE:CE2	1:F:1636:GLY:HA3	2.54	0.43
2:G:140:TYR:C	2:G:142:ALA:H	2.25	0.43
2:G:875:PHE:HE2	2:G:906:LEU:CD2	2.32	0.43
2:G:1106:LYS:HB2	2:G:1109:ASN:ND2	2.34	0.43
2:G:1315:ILE:HA	2:G:1393:ASP:O	2.19	0.43
2:G:1332:GLY:C	2:G:1334:ALA:H	2.27	0.43
2:G:1456:LEU:HD23	2:G:1457:HIS:N	2.34	0.43
2:G:1554:PRO:CG	2:G:1659:ILE:HD11	2.41	0.43
2:G:1700:GLN:HB2	2:G:1704:MET:HE1	2.00	0.43
2:G:1899:ALA:O	2:G:1903:VAL:HG23	2.18	0.43
2:H:197:VAL:CG2	2:H:263:ILE:HD11	2.46	0.43
2:H:298:ALA:HB2	2:H:304:PHE:HA	2.00	0.43
2:H:1175:MET:HA	2:H:1274:ILE:HD11	2.00	0.43
2:H:1335:PHE:N	2:H:1335:PHE:HD1	2.16	0.43
2:H:1764:MET:HE3	2:H:1865:LEU:HD12	1.98	0.43
2:H:1851:MET:SD	2:H:1856:LEU:HA	2.58	0.43
2:I:24:LEU:HD12	2:I:37:VAL:CG2	2.43	0.43
2:I:113:PHE:N	2:I:113:PHE:CD1	2.85	0.43
2:I:465:LEU:HD23	2:I:465:LEU:HA	1.70	0.43
2:I:617:PHE:HE2	2:I:628:ILE:HD11	1.82	0.43
2:I:674:ILE:HB	2:I:675:PRO:HD3	2.01	0.43
2:I:928:ASP:C	2:I:1007:LEU:HD23	2.44	0.43
2:I:932:ALA:O	2:I:935:VAL:HG13	2.19	0.43
2:I:1245:THR:HG23	2:I:1260:THR:OG1	2.18	0.43
2:I:1290:TYR:CG	2:I:1299:VAL:CG1	2.92	0.43
2:I:1832:THR:HG21	2:I:2040:ILE:HD11	2.00	0.43
2:I:1942:VAL:O	2:I:1946:LEU:HG	2.18	0.43
2:J:129:ILE:HG12	2:J:131:ALA:HB3	1.99	0.43
2:J:274:GLU:O	2:J:278:ARG:HG2	2.18	0.43
2:J:1335:PHE:CD1	2:J:1335:PHE:N	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1933:LEU:O	2:J:1989:LEU:HD11	2.18	0.43
2:J:2063:GLY:O	2:J:2065:PRO:HD3	2.18	0.43
2:K:35:PHE:CE1	2:K:105:ILE:HD13	2.54	0.43
2:K:326:TYR:CE2	2:L:1338:ARG:NH1	2.87	0.43
2:K:342:ASN:CB	2:K:406:ARG:NH2	2.82	0.43
2:K:350:MET:HG3	2:K:435:ILE:CB	2.48	0.43
2:K:582:LYS:HG3	2:K:1110:VAL:CG1	2.47	0.43
2:K:605:VAL:HB	2:K:628:ILE:CG1	2.42	0.43
2:K:914:TRP:CZ3	2:K:1033:ALA:HA	2.54	0.43
2:K:988:GLU:HA	2:K:989:PRO:HD3	1.70	0.43
2:K:1299:VAL:HG23	2:K:1301:PHE:CD2	2.54	0.43
2:K:1391:VAL:C	2:K:1393:ASP:H	2.26	0.43
2:K:1460:THR:HB	2:K:1463:ASP:OD1	2.18	0.43
2:K:1637:VAL:HG11	2:K:1679:LEU:HD22	2.00	0.43
2:K:1766:PHE:CE1	2:K:1869:VAL:HB	2.53	0.43
2:L:320:LEU:O	2:L:324:GLN:HG3	2.19	0.43
2:L:594:MET:HE1	2:L:604:MET:HB3	2.00	0.43
2:L:605:VAL:HG22	2:L:816:MET:HG3	1.99	0.43
2:L:894:GLU:CD	2:L:897:LYS:HD3	2.44	0.43
2:L:915:PHE:O	2:L:915:PHE:CG	2.72	0.43
2:L:1335:PHE:CD1	2:L:1629:ILE:HD11	2.52	0.43
2:L:1766:PHE:CE2	2:L:1869:VAL:HG23	2.53	0.43
2:L:1832:THR:HG21	2:L:2040:ILE:HD11	2.00	0.43
1:A:918:LEU:HD23	1:A:921:GLU:OE2	2.19	0.43
1:A:1330:GLU:OE2	1:A:1342:ARG:NH2	2.52	0.43
1:A:1581:LEU:HD23	1:A:1581:LEU:HA	1.84	0.43
1:B:61:LEU:HA	1:B:65:TYR:HB2	2.01	0.43
1:B:565:GLN:O	1:B:565:GLN:CG	2.67	0.43
1:B:819:LEU:HD23	1:E:820:ALA:HA	2.00	0.43
1:B:1273:ILE:O	1:B:1273:ILE:HG13	2.17	0.43
1:B:1317:GLU:HB3	1:D:1250:LEU:HD22	2.01	0.43
1:B:1554:LEU:HD22	1:B:1608:PRO:HG3	2.00	0.43
1:C:739:ASP:OD2	1:C:790:TYR:CG	2.72	0.43
1:C:965:TYR:CZ	1:C:1199:LEU:CD2	2.98	0.43
1:D:1090:ASP:C	1:D:1092:ASN:H	2.27	0.43
1:E:498:THR:HG22	1:E:508:TYR:CD1	2.49	0.43
1:E:612:ILE:HA	1:E:613:PRO:HD3	1.62	0.43
1:E:755:GLU:C	1:E:757:ASP:N	2.76	0.43
1:E:1491:ASN:HD22	1:E:1491:ASN:N	2.15	0.43
1:F:1301:VAL:HG23	1:F:1363:MET:CG	2.49	0.43
1:F:1472:GLU:O	1:F:1475:GLU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:617:PHE:HE2	2:G:628:ILE:HD11	1.84	0.43
2:G:1261:PHE:HA	2:G:1284:ARG:NH1	2.33	0.43
2:G:1445:THR:CG2	2:G:1498:PHE:HB2	2.49	0.43
2:G:1818:PHE:HE2	2:G:1822:ARG:HH12	1.66	0.43
2:G:1942:VAL:O	2:G:1946:LEU:HG	2.18	0.43
2:H:332:ALA:HB3	2:H:335:THR:OG1	2.19	0.43
2:H:357:THR:HG22	2:H:359:SER:H	1.82	0.43
2:H:1406:ASN:HB3	2:H:1411:LYS:HG3	2.00	0.43
2:H:1751:GLY:O	2:H:1752:PRO:C	2.61	0.43
2:H:1766:PHE:CZ	2:H:1869:VAL:HB	2.54	0.43
2:H:1877:GLY:O	2:H:1878:ARG:C	2.62	0.43
2:H:2077:TYR:O	2:H:2078:GLU:C	2.61	0.43
2:I:80:ILE:HG12	2:I:105:ILE:CG2	2.49	0.43
2:I:253:ILE:HB	2:I:287:GLN:NE2	2.34	0.43
2:I:468:PRO:HD3	2:I:479:ARG:HH21	1.80	0.43
2:I:605:VAL:HB	2:I:628:ILE:CG1	2.42	0.43
2:I:616:ASP:OD1	2:I:616:ASP:N	2.51	0.43
2:I:747:ARG:HD3	2:I:1071:VAL:HG11	2.00	0.43
2:I:876:TRP:C	2:I:876:TRP:HD1	2.23	0.43
2:I:943:TYR:OH	2:I:948:LYS:HA	2.19	0.43
2:I:1442:TYR:CG	2:I:1499:LYS:O	2.72	0.43
2:I:1588:ASN:OD1	2:I:1589:PRO:HD2	2.19	0.43
2:I:1804:GLN:CG	2:I:1865:LEU:HD23	2.48	0.43
2:I:2017:PHE:HE2	2:I:2021:LEU:HD11	1.84	0.43
2:J:253:ILE:HB	2:J:287:GLN:HE22	1.84	0.43
2:J:462:ALA:HB3	2:J:481:LEU:O	2.18	0.43
2:J:465:LEU:HA	2:J:465:LEU:HD23	1.73	0.43
2:J:871:ARG:HB2	2:J:909:ASP:HB2	2.01	0.43
2:J:1179:GLU:HB3	2:J:1193:LYS:HE3	1.99	0.43
2:J:1316:VAL:HB	2:J:1391:VAL:O	2.18	0.43
2:J:1325:VAL:HG13	2:J:1330:ASN:O	2.18	0.43
2:J:1464:LEU:HD11	2:J:1468:ARG:HD2	2.00	0.43
2:J:1723:ASP:CG	2:J:1735:ILE:HG13	2.44	0.43
2:J:1802:ALA:CB	2:J:1804:GLN:HE22	2.22	0.43
2:J:1813:MET:HG3	2:J:1814:GLU:N	2.33	0.43
2:J:1942:VAL:O	2:J:1946:LEU:HG	2.17	0.43
2:K:316:PHE:CD2	2:K:316:PHE:C	2.97	0.43
2:K:1106:LYS:HB2	2:K:1109:ASN:ND2	2.33	0.43
2:K:1877:GLY:O	2:K:1878:ARG:C	2.61	0.43
2:L:113:PHE:N	2:L:113:PHE:CD1	2.86	0.43
2:L:182:TYR:CD1	2:L:182:TYR:C	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:835:ALA:HB3	2:L:1073:ALA:HB1	1.99	0.43
2:L:1007:LEU:H	2:L:1007:LEU:CD1	2.22	0.43
2:L:1086:ILE:O	2:L:1090:ILE:HG13	2.19	0.43
2:L:1904:VAL:HG13	2:L:1915:LEU:HG	2.01	0.43
1:A:28:TRP:HE1	1:A:32:GLN:NE2	2.17	0.43
1:A:612:ILE:HA	1:A:613:PRO:HD3	1.64	0.43
1:A:701:ARG:HH11	1:A:1610:ARG:NH2	2.16	0.43
1:A:744:VAL:CG1	1:A:746:PHE:CE1	3.02	0.43
1:A:1640:LYS:CG	1:A:1641:TYR:CD1	3.02	0.43
1:B:1177:GLU:O	1:B:1180:ILE:HB	2.18	0.43
1:C:548:VAL:HG12	1:C:552:ILE:HD12	2.00	0.43
1:C:670:LEU:CD1	1:C:680:VAL:HG21	2.49	0.43
1:C:999:LEU:HD11	1:C:1575:ASN:CB	2.47	0.43
1:C:1052:ASP:HB3	1:C:1055:THR:HG23	2.01	0.43
1:C:1134:GLU:H	1:C:1134:GLU:HG3	1.68	0.43
1:C:1164:ILE:HD13	1:C:1355:GLN:HG3	2.01	0.43
1:C:1321:MET:HB3	1:C:1321:MET:HE2	1.70	0.43
1:C:1601:GLN:HB2	1:C:1602:PHE:CD2	2.54	0.43
1:D:28:TRP:CE2	1:D:53:LEU:HD22	2.54	0.43
1:E:938:ILE:HG21	2:K:1546:ARG:NH2	2.34	0.43
1:E:1037:ASN:ND2	1:E:1674:ILE:HG12	2.33	0.43
1:E:1168:TRP:HE1	1:E:1173:TYR:HE1	1.66	0.43
1:E:1177:GLU:O	1:E:1180:ILE:HB	2.18	0.43
1:E:1220:ASN:HB3	1:E:1273:ILE:HG22	1.99	0.43
1:E:1522:PHE:HE2	1:E:1535:SER:HA	1.83	0.43
1:F:40:ARG:HH21	1:F:72:THR:HG22	1.83	0.43
1:F:418:ILE:HA	1:F:462:THR:HB	2.01	0.43
1:F:1022:LEU:O	1:F:1022:LEU:HD13	2.18	0.43
1:F:1607:TYR:HA	1:F:1608:PRO:HD3	1.83	0.43
2:G:22:ARG:HD2	2:G:42:HIS:CB	2.49	0.43
2:G:24:LEU:HD12	2:G:37:VAL:CG2	2.40	0.43
2:G:615:TRP:CE3	2:G:647:LYS:HB3	2.54	0.43
2:G:725:GLN:HE21	2:G:767:ARG:HH11	1.67	0.43
2:G:1014:GLN:O	2:G:1018:LEU:HG	2.19	0.43
2:G:1108:GLU:H	2:G:1108:GLU:HG3	1.57	0.43
2:H:594:MET:HE1	2:H:604:MET:HB3	1.99	0.43
2:H:1194:ARG:NH2	2:H:1601:ASN:OD1	2.52	0.43
2:H:1211:ASP:HA	2:H:1212:PRO:HD2	1.83	0.43
2:H:2059:HIS:HB2	2:H:2067:ILE:HG21	2.00	0.43
2:I:787:ASP:O	2:I:790:PRO:HD2	2.19	0.43
2:I:1362:PHE:N	2:I:1363:PRO:CD	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1491:ARG:C	2:I:1492:LEU:HD23	2.44	0.43
2:I:1690:THR:HG22	2:I:1691:ALA:N	2.34	0.43
2:I:1884:CYS:CB	2:I:1936:LEU:HD12	2.47	0.43
2:J:35:PHE:CE1	2:J:105:ILE:HD13	2.53	0.43
2:J:208:LEU:HB3	2:J:225:LEU:HD13	2.00	0.43
2:J:227:ILE:H	2:J:227:ILE:HG13	1.65	0.43
2:J:616:ASP:N	2:J:616:ASP:OD1	2.51	0.43
2:J:1181:PHE:CD1	2:J:1191:PRO:HD2	2.53	0.43
2:J:1653:LEU:HD21	2:J:1667:VAL:HG13	2.01	0.43
2:J:1700:GLN:HG2	2:J:1700:GLN:O	2.19	0.43
2:J:1903:VAL:O	2:J:1907:ILE:HG13	2.19	0.43
2:K:399:TYR:CE2	2:K:403:LEU:HD11	2.53	0.43
2:K:441:SER:C	2:K:443:TYR:H	2.27	0.43
2:K:555:LYS:HB3	2:K:556:PRO:HD3	1.99	0.43
2:K:590:VAL:CG2	2:K:1091:HIS:CD2	3.00	0.43
2:K:1672:LYS:HG2	2:K:1672:LYS:O	2.18	0.43
2:L:73:VAL:HG13	2:L:113:PHE:HD2	1.83	0.43
2:L:196:PHE:O	2:L:262:MET:HE1	2.19	0.43
2:L:289:ILE:HG21	2:L:493:MET:CE	2.48	0.43
2:L:291:VAL:O	2:L:295:ILE:HB	2.19	0.43
2:L:617:PHE:HE2	2:L:628:ILE:HD11	1.84	0.43
2:L:657:GLY:HA3	2:L:688:GLU:HG2	2.00	0.43
2:L:791:TYR:HA	2:L:796:TRP:HD1	1.82	0.43
2:L:910:PHE:O	2:L:1063:ARG:HD3	2.17	0.43
2:L:1014:GLN:O	2:L:1018:LEU:HG	2.18	0.43
2:L:1204:VAL:HA	2:L:1218:SER:O	2.19	0.43
2:L:1251:THR:HG22	2:L:1292:VAL:HG13	2.01	0.43
2:L:1316:VAL:HB	2:L:1391:VAL:O	2.19	0.43
2:L:1474:LYS:HE3	2:L:1529:ASP:HB3	2.01	0.43
2:L:1491:ARG:C	2:L:1492:LEU:HD23	2.44	0.43
2:L:1953:ILE:O	2:L:1957:MET:HG2	2.19	0.43
1:A:534:GLN:O	1:F:575:ARG:HD3	2.18	0.43
1:A:553:ARG:C	1:A:555:GLN:H	2.26	0.43
1:A:755:GLU:HB2	1:A:757:ASP:HB2	2.00	0.43
1:A:987:MET:SD	1:A:1422:ARG:HG2	2.59	0.43
1:A:1030:TRP:CE2	1:A:1673:LEU:HD22	2.54	0.43
1:A:1079:ARG:HG2	1:A:1079:ARG:NH1	2.10	0.43
1:A:1158:ARG:HD2	1:A:1324:THR:HB	2.01	0.43
1:A:1170:ALA:CB	1:A:1188:LEU:HD13	2.49	0.43
1:B:408:GLN:O	1:B:412:SER:HB2	2.19	0.43
1:B:679:LYS:HG2	1:B:708:GLN:CB	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1019:LYS:HB2	1:B:1019:LYS:HE3	1.67	0.43
1:B:1176:PRO:O	1:B:1180:ILE:HG12	2.18	0.43
1:B:1581:LEU:HD23	1:B:1581:LEU:HA	1.86	0.43
1:C:628:TYR:OH	1:C:630:LYS:HE2	2.18	0.43
1:C:1213:VAL:HG13	1:C:1217:GLU:HB2	2.01	0.43
1:C:1647:ASP:C	1:C:1649:ALA:N	2.75	0.43
1:D:1249:ILE:HD12	1:D:1249:ILE:C	2.43	0.43
1:E:1022:LEU:O	1:E:1022:LEU:HD13	2.19	0.43
1:E:1078:ILE:HG23	1:E:1352:MET:HE3	1.99	0.43
1:E:1224:SER:HB3	1:E:1307:PHE:CE2	2.54	0.43
1:F:535:TYR:HD2	1:F:540:LYS:HG2	1.84	0.43
1:F:1295:MET:HB3	1:F:1295:MET:HE3	1.74	0.43
2:G:582:LYS:HG3	2:G:1110:VAL:CG1	2.46	0.43
2:G:752:HIS:NE2	2:G:856:THR:HG22	2.34	0.43
2:G:1067:LEU:HD12	2:G:1067:LEU:H	1.83	0.43
2:G:1224:GLN:HG3	2:G:1578:GLU:OE2	2.19	0.43
2:H:608:MET:HA	3:H:2101:FMN:N5	2.34	0.43
2:H:747:ARG:H	2:H:747:ARG:HG3	1.54	0.43
2:H:866:HIS:HB3	2:H:1068:GLN:O	2.18	0.43
2:H:942:MET:HG2	2:H:1029:PRO:HG2	2.01	0.43
2:H:1925:MET:HE2	2:H:1925:MET:HB3	1.86	0.43
2:I:68:GLU:HB3	2:I:69:PRO:HD2	2.00	0.43
2:I:114:MET:HG2	2:I:122:ILE:HG21	2.00	0.43
2:I:220:GLN:NE2	2:I:324:GLN:HG2	2.34	0.43
2:I:626:TYR:OH	2:I:1088:ASP:HA	2.19	0.43
2:I:759:GLN:N	2:I:760:PRO:CD	2.81	0.43
2:I:914:TRP:CZ3	2:I:1033:ALA:HA	2.54	0.43
2:I:1205:GLU:O	2:I:1217:ILE:HA	2.19	0.43
2:I:1404:VAL:O	2:I:1445:THR:HA	2.19	0.43
2:I:1500:ASN:C	2:I:1502:ASN:N	2.76	0.43
2:I:1607:THR:HG22	2:I:1608:HIS:N	2.34	0.43
2:J:134:ILE:HG12	2:J:545:ILE:HD12	2.01	0.43
2:J:289:ILE:HG21	2:J:493:MET:HE1	2.00	0.43
2:J:605:VAL:HG22	2:J:816:MET:HG3	2.00	0.43
2:J:1308:VAL:CG1	2:J:1398:THR:HG23	2.48	0.43
2:J:1616:VAL:O	2:J:1620:VAL:HG23	2.18	0.43
2:K:120:HIS:NE2	2:K:137:VAL:HG11	2.34	0.43
2:K:298:ALA:HB2	2:K:304:PHE:HA	1.99	0.43
2:K:406:ARG:HA	2:K:409:LYS:HG2	2.01	0.43
2:K:465:LEU:HD23	2:K:465:LEU:HA	1.73	0.43
2:K:467:ILE:CG2	2:K:468:PRO:HD2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:608:MET:HE1	2:K:817:MET:CG	2.49	0.43
2:K:879:LEU:HB3	2:K:884:PHE:CE1	2.53	0.43
2:K:1028:VAL:HG22	2:K:1030:PHE:CE2	2.53	0.43
2:K:1723:ASP:CG	2:K:1735:ILE:HG13	2.44	0.43
2:K:1871:VAL:HG23	2:K:2003:VAL:HG13	2.01	0.43
2:K:1960:MET:SD	2:K:1965:VAL:HG13	2.59	0.43
2:K:2059:HIS:HB2	2:K:2067:ILE:HG21	2.00	0.43
2:L:172:ILE:HG22	2:L:514:VAL:C	2.43	0.43
2:L:208:LEU:HD23	2:L:211:LEU:HD12	2.00	0.43
2:L:253:ILE:HB	2:L:287:GLN:NE2	2.33	0.43
2:L:600:VAL:CG1	2:L:601:PRO:HD2	2.46	0.43
2:L:644:ALA:O	2:L:648:ILE:HG13	2.19	0.43
1:A:1042:LEU:HD23	1:A:1042:LEU:HA	1.77	0.43
1:A:1278:GLY:CA	1:A:1630:LYS:HE2	2.43	0.43
1:B:470:GLY:O	1:B:474:ILE:HG13	2.18	0.43
1:B:821:LEU:HD23	1:B:821:LEU:HA	1.89	0.43
1:B:967:PHE:HB3	1:B:968:PRO:HD2	2.01	0.43
1:B:1419:LYS:O	1:B:1422:ARG:HB2	2.18	0.43
1:B:1697:LEU:HD21	1:D:1401:LEU:HD22	2.00	0.43
1:C:408:GLN:HE22	1:C:1609:SER:N	2.14	0.43
1:C:486:VAL:CG1	1:C:647:GLY:HA3	2.41	0.43
1:C:714:PHE:CD1	1:C:725:LEU:HD12	2.53	0.43
1:C:1389:ILE:HD13	1:F:1682:LYS:HB3	2.00	0.43
1:C:1432:ILE:HD11	1:C:1481:GLN:CB	2.49	0.43
1:D:408:GLN:O	1:D:412:SER:HB2	2.19	0.43
1:D:605:ARG:O	1:D:607:GLY:N	2.52	0.43
1:D:689:ARG:NE	1:D:1339:GLU:CG	2.76	0.43
1:D:874:GLN:H	1:D:874:GLN:HG2	1.34	0.43
1:D:1071:TYR:CE2	1:D:1075:HIS:HB2	2.54	0.43
1:D:1419:LYS:O	1:D:1422:ARG:HB2	2.19	0.43
1:D:1447:VAL:HG21	1:D:1467:LEU:HD11	2.00	0.43
1:E:522:TYR:O	1:E:523:VAL:C	2.62	0.43
1:E:1651:TYR:CE2	1:E:1655:CYS:SG	3.12	0.43
1:F:958:GLU:HA	1:F:959:PRO:HD3	1.93	0.43
1:F:1249:ILE:HD12	1:F:1250:LEU:N	2.34	0.43
1:F:1288:ASP:O	1:F:1291:TYR:HB3	2.19	0.43
2:G:871:ARG:HB2	2:G:909:ASP:HB2	2.01	0.43
2:G:942:MET:HE2	2:G:955:LEU:CB	2.37	0.43
2:G:1350:ILE:O	2:G:1354:TRP:HB2	2.18	0.43
2:G:1452:VAL:O	2:G:1454:MET:HG3	2.19	0.43
2:G:1863:ARG:HB2	2:G:2017:PHE:HE1	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:276:LEU:HD13	2:H:466:VAL:HG21	2.01	0.43
2:H:358:ARG:HH21	2:H:383:VAL:HG21	1.84	0.43
2:H:615:TRP:CE3	2:H:647:LYS:HB3	2.53	0.43
2:H:727:VAL:HA	2:H:730:ILE:HG12	2.01	0.43
2:H:930:THR:HA	2:H:1007:LEU:HA	2.01	0.43
2:H:1106:LYS:HB2	2:H:1109:ASN:ND2	2.34	0.43
2:H:1259:LEU:HD11	2:H:1285:ILE:HG12	2.00	0.43
2:H:1762:MET:HG2	2:H:1779:LYS:NZ	2.33	0.43
2:H:1915:LEU:HD13	2:H:1936:LEU:HD22	2.00	0.43
2:I:283:THR:HG23	2:I:470:TYR:O	2.19	0.43
2:I:737:PHE:O	2:I:773:ASN:HB3	2.19	0.43
2:I:737:PHE:HA	2:I:738:PRO:HD3	1.78	0.43
2:I:747:ARG:H	2:I:747:ARG:HG3	1.57	0.43
2:I:889:SER:C	2:I:891:ARG:H	2.27	0.43
2:I:1722:ALA:CB	2:I:1812:LEU:HD11	2.49	0.43
2:I:1863:ARG:O	2:I:1867:MET:HG3	2.19	0.43
2:I:1904:VAL:HG13	2:I:1915:LEU:HG	2.00	0.43
2:J:327:PRO:N	2:K:1338:ARG:NH2	2.67	0.43
2:J:604:MET:HG3	2:J:627:HIS:HD2	1.83	0.43
2:J:641:MET:CE	2:J:676:LEU:HD12	2.47	0.43
2:J:740:ILE:HA	2:J:775:VAL:HB	2.01	0.43
2:J:798:THR:HA	2:J:802:TYR:O	2.19	0.43
2:J:1558:GLU:O	2:J:1560:PRO:HD3	2.19	0.43
2:J:1808:PRO:O	2:J:1812:LEU:HD23	2.18	0.43
2:J:1972:ILE:H	2:J:1972:ILE:HG13	1.38	0.43
2:K:894:GLU:CD	2:K:897:LYS:HD3	2.44	0.43
2:K:938:MET:O	2:K:942:MET:HG3	2.19	0.43
2:K:1157:VAL:HG13	2:K:1197:ALA:HA	2.00	0.43
2:K:1871:VAL:HG12	2:K:1872:GLU:N	2.34	0.43
2:K:2038:LYS:HA	2:K:2038:LYS:HD3	1.77	0.43
2:L:347:PRO:HA	2:L:432:PHE:CE1	2.53	0.43
2:L:540:ILE:CD1	2:L:557:GLU:HB3	2.48	0.43
2:L:871:ARG:HB2	2:L:909:ASP:HB2	2.01	0.43
2:L:1067:LEU:O	2:L:1068:GLN:HG2	2.19	0.43
2:L:1305:LEU:HB3	2:L:1401:ILE:HD12	2.01	0.43
2:L:1572:ARG:HG2	2:L:1647:ASP:O	2.19	0.43
2:L:1645:PRO:O	2:L:1646:ASN:HB2	2.19	0.43
2:L:1944:ASN:HA	2:L:1993:PHE:HD1	1.83	0.43
3:L:2101:FMN:H9	3:L:2101:FMN:H1'2	1.82	0.43
1:A:75:GLN:NE2	2:I:335:THR:HG23	2.34	0.42
1:A:1168:TRP:NE1	1:A:1173:TYR:CE1	2.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:23:ALA:HA	2:H:2007:SER:O	2.19	0.42
1:B:29:ILE:HD11	2:H:1923:ALA:N	2.34	0.42
1:B:349:MET:O	1:B:349:MET:HG3	2.18	0.42
1:B:1098:GLN:HB2	1:B:1152:LYS:HE2	2.01	0.42
1:D:326:ASP:HB3	1:D:333:ARG:NH1	2.23	0.42
1:D:421:ARG:NH2	1:D:1613:LYS:HB3	2.33	0.42
1:D:449:GLN:HG3	1:D:474:ILE:HD13	2.01	0.42
1:D:743:VAL:HG12	1:D:745:PRO:HG3	2.01	0.42
1:E:1249:ILE:HD12	1:E:1249:ILE:C	2.44	0.42
1:F:404:ASN:HD21	1:F:1607:TYR:H	1.66	0.42
1:F:414:TYR:O	1:F:418:ILE:HG13	2.18	0.42
1:F:450:TYR:CD2	1:F:450:TYR:C	2.96	0.42
1:F:648:LEU:HD12	1:F:649:THR:N	2.34	0.42
1:F:827:ARG:HB3	1:F:833:TRP:HZ2	1.84	0.42
1:F:948:HIS:O	1:F:952:TYR:HD2	2.02	0.42
1:F:1184:ASP:OD1	1:F:1185:PRO:HD2	2.19	0.42
1:F:1321:MET:HB3	1:F:1321:MET:HE2	1.73	0.42
2:G:211:LEU:HB3	2:G:316:PHE:CZ	2.54	0.42
2:G:420:PRO:HB2	2:G:423:GLN:HB2	2.01	0.42
2:G:785:SER:CB	2:G:1094:HIS:CD2	3.01	0.42
2:G:868:LEU:HD12	2:G:868:LEU:HA	1.80	0.42
2:G:914:TRP:CZ3	2:G:1033:ALA:HA	2.54	0.42
2:G:1048:TRP:CE2	2:G:1049:GLN:HG2	2.54	0.42
2:G:1362:PHE:N	2:G:1363:PRO:CD	2.82	0.42
2:H:140:TYR:C	2:H:142:ALA:H	2.27	0.42
2:H:141:TYR:HA	2:H:144:ARG:HB3	2.01	0.42
2:H:211:LEU:HB3	2:H:316:PHE:CZ	2.53	0.42
2:H:221:TYR:CE2	2:H:225:LEU:HD12	2.54	0.42
2:H:262:MET:HE3	2:H:262:MET:HB3	1.69	0.42
2:H:478:LEU:HD22	2:H:481:LEU:HD11	2.01	0.42
2:H:914:TRP:O	2:H:916:GLY:N	2.46	0.42
2:H:943:TYR:OH	2:H:948:LYS:HA	2.19	0.42
2:H:1181:PHE:CD1	2:H:1191:PRO:HD2	2.54	0.42
2:I:350:MET:HE2	2:I:435:ILE:CD1	2.42	0.42
2:J:529:ASN:HD22	2:J:552:VAL:CG2	2.32	0.42
2:J:1741:ASN:ND2	2:J:1798:GLY:HA3	2.32	0.42
2:J:1799:LEU:C	2:J:1801:SER:H	2.27	0.42
2:K:306:THR:O	2:K:310:ARG:HG3	2.19	0.42
2:K:764:MET:O	2:K:765:TYR:C	2.62	0.42
2:K:943:TYR:OH	2:K:948:LYS:HA	2.19	0.42
2:K:1631:ARG:NH2	2:K:1688:PRO:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:26:LEU:HD23	2:L:26:LEU:HA	1.78	0.42
2:L:625:GLY:C	2:L:656:ARG:HH22	2.25	0.42
2:L:1157:VAL:HG13	2:L:1197:ALA:HA	2.01	0.42
2:L:1818:PHE:HE2	2:L:1822:ARG:NH1	2.17	0.42
2:L:1944:ASN:HA	2:L:1993:PHE:CE1	2.53	0.42
2:L:2003:VAL:HA	2:L:2004:PRO:HD3	1.82	0.42
1:A:23:ALA:HA	2:G:2007:SER:O	2.19	0.42
1:A:498:THR:HG21	1:A:858:LEU:HA	2.02	0.42
1:A:1446:GLU:O	1:A:1450:ILE:HG13	2.19	0.42
1:A:1475:GLU:HB3	1:A:1479:ARG:NH2	2.33	0.42
1:B:552:ILE:HD11	1:E:566:PHE:CE1	2.53	0.42
1:B:1461:PHE:CE2	1:D:1411:PHE:CE1	3.07	0.42
1:B:1470:ARG:HD3	1:B:1470:ARG:HA	1.90	0.42
1:C:34:VAL:HG11	2:I:2047:PRO:HD3	2.00	0.42
1:C:329:THR:O	1:C:332:GLN:HB2	2.19	0.42
1:C:358:PHE:HD2	1:C:359:VAL:N	2.16	0.42
1:C:657:MET:HE2	1:C:657:MET:HB3	1.91	0.42
1:C:749:ILE:HA	1:C:750:PRO:HD3	1.85	0.42
1:C:859:VAL:O	1:C:863:VAL:HG23	2.18	0.42
1:C:1365:ALA:O	1:C:1368:ALA:HB3	2.20	0.42
1:C:1444:GLN:O	1:C:1447:VAL:HB	2.19	0.42
1:C:1698:ASN:C	1:C:1700:GLN:H	2.27	0.42
1:D:1713:PHE:HA	1:D:1714:PRO:HD3	1.80	0.42
1:E:350:ASP:HB3	1:E:353:ALA:HB2	2.01	0.42
1:E:648:LEU:HD12	1:E:649:THR:N	2.34	0.42
1:E:1327:ALA:HA	1:E:1340:MET:HE1	2.01	0.42
1:F:11:TYR:HD1	2:L:2030:ILE:HD12	1.83	0.42
1:F:34:VAL:HG11	2:L:2047:PRO:HD3	2.00	0.42
1:F:56:MET:HE3	1:F:56:MET:HB2	1.91	0.42
1:F:486:VAL:HG22	1:F:648:LEU:C	2.45	0.42
1:F:584:ILE:H	1:F:584:ILE:HG12	1.65	0.42
1:F:1342:ARG:HB3	1:F:1345:SER:HB2	2.01	0.42
2:G:399:TYR:CE2	2:G:403:LEU:HD11	2.55	0.42
2:G:601:PRO:HA	2:G:602:PRO:HD3	1.83	0.42
2:G:1303:THR:HA	2:G:1304:PRO:HD3	1.92	0.42
2:G:1871:VAL:HG12	2:G:1872:GLU:N	2.33	0.42
2:H:174:GLY:H	2:H:517:GLY:CA	2.29	0.42
2:H:444:LEU:HA	2:H:444:LEU:HD23	1.72	0.42
2:H:608:MET:HE2	2:H:611:THR:OG1	2.19	0.42
2:H:932:ALA:O	2:H:935:VAL:HG13	2.19	0.42
2:H:942:MET:HE2	2:H:955:LEU:CB	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:980:LEU:CD2	2:H:986:LEU:HD21	2.50	0.42
2:H:1589:PRO:HB2	2:H:1596:PHE:HB3	2.01	0.42
2:H:1938:THR:HG22	2:H:1977:ARG:HA	2.00	0.42
2:I:140:TYR:C	2:I:142:ALA:H	2.28	0.42
2:I:342:ASN:HB2	2:I:406:ARG:NH2	2.33	0.42
2:I:625:GLY:C	2:I:656:ARG:HH22	2.26	0.42
2:I:641:MET:CE	2:I:676:LEU:HD12	2.48	0.42
2:I:1179:GLU:HB3	2:I:1193:LYS:HE3	2.02	0.42
2:I:1456:LEU:HD23	2:I:1457:HIS:N	2.34	0.42
2:I:1744:GLU:N	2:I:1799:LEU:HD13	2.34	0.42
2:I:2013:GLY:C	2:I:2016:PRO:HD2	2.44	0.42
2:J:68:GLU:HB3	2:J:69:PRO:HD2	2.01	0.42
2:J:731:ALA:HB1	2:J:771:CYS:SG	2.59	0.42
2:J:1067:LEU:O	2:J:1068:GLN:HG2	2.19	0.42
2:J:1452:VAL:O	2:J:1454:MET:HG3	2.18	0.42
2:J:1805:PHE:O	2:J:1808:PRO:HD2	2.19	0.42
2:K:326:TYR:C	2:L:1338:ARG:NH2	2.77	0.42
2:K:823:HIS:HB3	2:K:1051:GLU:HG3	2.01	0.42
2:K:894:GLU:O	2:K:897:LYS:HG2	2.19	0.42
2:K:932:ALA:O	2:K:935:VAL:HG13	2.19	0.42
2:K:976:GLN:HA	2:K:977:PRO:HD3	1.89	0.42
2:K:1127:GLU:HA	2:K:1128:PRO:HD3	1.74	0.42
2:K:1289:TYR:CD2	2:K:1370:LEU:HD23	2.54	0.42
2:K:1687:GLN:HA	2:K:1688:PRO:HD3	1.76	0.42
2:K:1803:THR:O	2:K:1804:GLN:C	2.60	0.42
2:L:316:PHE:CD2	2:L:316:PHE:C	2.97	0.42
2:L:506:VAL:O	2:L:506:VAL:HG22	2.18	0.42
2:L:549:ASN:HD22	2:L:549:ASN:C	2.27	0.42
2:L:894:GLU:O	2:L:897:LYS:HG2	2.18	0.42
2:L:1099:LEU:HD12	2:L:1103:TYR:HB2	1.99	0.42
2:L:1308:VAL:CG1	2:L:1398:THR:HG23	2.50	0.42
2:L:1462:GLN:O	2:L:1466:VAL:HG23	2.19	0.42
2:L:1589:PRO:CB	2:L:1596:PHE:CG	3.02	0.42
2:L:1913:TRP:HZ3	2:L:1938:THR:HG21	1.84	0.42
1:A:447:PHE:CE1	1:A:451:HIS:NE2	2.87	0.42
1:A:490:VAL:HG12	1:A:490:VAL:O	2.20	0.42
1:A:1168:TRP:CE2	1:A:1173:TYR:HE1	2.38	0.42
1:A:1307:PHE:CA	1:A:1568:ALA:HB2	2.50	0.42
1:A:1321:MET:HE2	1:A:1321:MET:HB3	1.75	0.42
1:A:1472:GLU:O	1:A:1475:GLU:HB2	2.19	0.42
1:A:1695:VAL:HG11	1:A:1713:PHE:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:374:LEU:HD11	1:E:389:PRO:HD3	2.01	0.42
1:B:770:MET:HE2	1:B:770:MET:HB2	1.82	0.42
1:B:1673:LEU:HD23	1:B:1673:LEU:HA	1.80	0.42
1:C:335:LEU:HD12	1:C:335:LEU:O	2.20	0.42
1:C:529:GLY:HA3	1:C:611:THR:HG21	2.01	0.42
1:C:776:ARG:NH1	1:D:759:ILE:O	2.50	0.42
1:C:1419:LYS:O	1:C:1422:ARG:HB2	2.19	0.42
1:D:349:MET:HG3	1:D:349:MET:O	2.19	0.42
1:E:829:TYR:OH	1:E:896:PRO:HD2	2.20	0.42
1:E:1525:THR:O	1:E:1526:SER:HB3	2.19	0.42
1:F:329:THR:O	1:F:332:GLN:HB2	2.19	0.42
1:F:1078:ILE:HG23	1:F:1352:MET:HE3	2.01	0.42
1:F:1393:VAL:N	1:F:1394:PRO:CD	2.82	0.42
1:F:1467:LEU:HD23	1:F:1467:LEU:HA	1.91	0.42
2:G:73:VAL:HA	2:G:113:PHE:HE2	1.83	0.42
2:G:358:ARG:HH21	2:G:383:VAL:HG21	1.85	0.42
2:G:467:ILE:CG2	2:G:468:PRO:HD2	2.45	0.42
2:G:894:GLU:CD	2:G:897:LYS:HD3	2.44	0.42
2:G:1780:ILE:HG23	2:G:1869:VAL:HG11	2.01	0.42
2:H:459:LYS:C	2:H:460:ILE:HD12	2.44	0.42
2:H:762:LEU:HD11	2:H:800:PHE:CB	2.49	0.42
2:H:872:GLY:HA2	2:H:909:ASP:O	2.19	0.42
2:H:942:MET:HE2	2:H:955:LEU:CD1	2.45	0.42
2:H:1362:PHE:N	2:H:1363:PRO:CD	2.79	0.42
2:H:1626:GLU:O	2:H:1627:ASN:HB2	2.19	0.42
2:H:2063:GLY:O	2:H:2065:PRO:HD3	2.20	0.42
2:I:289:ILE:CG2	2:I:490:LEU:HD22	2.50	0.42
2:I:399:TYR:CE2	2:I:403:LEU:HD11	2.54	0.42
2:I:489:GLU:HG2	2:I:492:ARG:NH1	2.34	0.42
2:I:571:ASP:HB3	2:I:574:LYS:HB2	2.02	0.42
2:I:785:SER:O	2:I:789:TYR:HB2	2.19	0.42
2:I:1175:MET:CE	2:I:1192:LEU:HD11	2.46	0.42
2:I:1324:PHE:N	2:I:1583:VAL:HG11	2.34	0.42
2:J:193:TYR:O	2:J:197:VAL:HG23	2.19	0.42
2:J:601:PRO:HB2	2:J:626:TYR:CE2	2.54	0.42
2:J:910:PHE:O	2:J:1063:ARG:HD3	2.19	0.42
2:J:1832:THR:HG21	2:J:2040:ILE:HD11	2.01	0.42
2:J:1886:VAL:CG1	2:J:1900:LEU:HD11	2.50	0.42
2:J:2059:HIS:HB2	2:J:2067:ILE:HG21	2.00	0.42
2:K:73:VAL:HA	2:K:113:PHE:HE2	1.84	0.42
2:K:515:ASP:CB	2:K:541:LEU:HD23	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:606:ALA:HB2	2:K:811:MET:HG3	2.01	0.42
2:K:914:TRP:CD1	2:K:916:GLY:CA	2.96	0.42
2:K:918:ASN:HB3	2:K:924:VAL:HG21	2.00	0.42
2:L:884:PHE:HE2	2:L:1039:GLU:CA	2.29	0.42
2:L:1146:LEU:O	2:L:1201:GLY:HA2	2.18	0.42
2:L:1175:MET:HA	2:L:1274:ILE:HD11	2.00	0.42
2:L:1350:ILE:O	2:L:1354:TRP:HB2	2.18	0.42
2:L:1972:ILE:H	2:L:1972:ILE:HG13	1.43	0.42
2:L:2005:PHE:HA	2:L:2010:LEU:CD1	2.32	0.42
1:A:403:TRP:CZ3	1:A:404:ASN:HB2	2.55	0.42
1:A:454:HIS:CD2	1:A:454:HIS:N	2.87	0.42
1:A:948:HIS:O	1:A:952:TYR:HD2	2.02	0.42
1:B:718:SER:HB3	1:B:721:ASP:HB2	2.01	0.42
1:B:1175:VAL:HA	1:B:1176:PRO:HD3	1.82	0.42
1:C:31:THR:HG23	2:I:2040:ILE:CG2	2.50	0.42
1:D:821:LEU:HA	1:D:821:LEU:HD23	1.82	0.42
1:D:1587:PRO:HA	1:D:1611:SER:OG	2.18	0.42
1:D:1698:ASN:C	1:D:1700:GLN:H	2.28	0.42
1:E:1364:THR:CG2	1:E:1366:GLN:HB2	2.49	0.42
1:E:1546:GLY:O	1:E:1547:ARG:C	2.63	0.42
1:E:1589:ASN:ND2	1:E:1592:ALA:HB2	2.34	0.42
1:F:1254:PHE:HB2	1:F:1257:THR:OG1	2.19	0.42
2:G:120:HIS:CD2	2:G:137:VAL:CG1	3.02	0.42
2:G:1007:LEU:HD12	2:G:1007:LEU:N	2.30	0.42
2:G:1115:TYR:CZ	2:G:1174:ALA:HB2	2.54	0.42
2:H:208:LEU:HB3	2:H:225:LEU:HD13	2.02	0.42
2:H:428:PHE:CD1	2:H:428:PHE:C	2.97	0.42
2:H:460:ILE:HA	2:H:461:PRO:HD3	1.81	0.42
2:H:612:THR:CG2	2:H:629:GLU:O	2.67	0.42
2:H:877:LYS:O	2:H:880:ASP:HB2	2.19	0.42
2:H:917:ARG:NH1	2:H:1057:TYR:OH	2.52	0.42
2:H:1391:VAL:C	2:H:1393:ASP:H	2.27	0.42
2:H:1764:MET:O	2:H:1780:ILE:HG13	2.19	0.42
2:H:1873:ARG:HB3	2:H:1879:SER:HA	2.01	0.42
2:H:1881:TYR:CB	2:H:2004:PRO:HG3	2.50	0.42
3:H:2101:FMN:H1'2	3:H:2101:FMN:H9	1.81	0.42
2:I:289:ILE:HD13	2:I:493:MET:HE1	2.00	0.42
2:I:342:ASN:HD22	2:I:342:ASN:N	2.17	0.42
2:I:444:LEU:HD23	2:I:444:LEU:HA	1.72	0.42
2:I:603:VAL:HG22	2:I:810:CYS:SG	2.59	0.42
2:I:785:SER:HB3	2:I:1094:HIS:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:875:PHE:HE2	2:I:906:LEU:CD2	2.32	0.42
3:I:2101:FMN:H1'2	3:I:2101:FMN:O4'	2.20	0.42
2:J:314:LEU:O	2:J:318:ILE:HG13	2.20	0.42
2:J:376:ARG:HH21	2:K:1339:GLY:HA2	1.83	0.42
2:J:582:LYS:HG3	2:J:1110:VAL:CG1	2.47	0.42
2:J:604:MET:HG3	2:J:627:HIS:CD2	2.54	0.42
2:J:692:ILE:HD13	2:J:697:PRO:HG2	2.01	0.42
2:J:731:ALA:CB	2:J:739:ILE:HD12	2.50	0.42
2:J:785:SER:CB	2:J:1094:HIS:CD2	3.02	0.42
2:J:879:LEU:HB3	2:J:884:PHE:CE1	2.54	0.42
2:J:928:ASP:CA	2:J:1007:LEU:HD23	2.48	0.42
2:J:1248:GLU:OE1	2:J:1248:GLU:HA	2.19	0.42
2:J:1456:LEU:HD23	2:J:1457:HIS:N	2.35	0.42
2:K:227:ILE:H	2:K:227:ILE:HG13	1.69	0.42
2:K:300:THR:HG22	2:K:301:TRP:N	2.35	0.42
2:K:350:MET:CE	2:K:435:ILE:HD12	2.42	0.42
2:K:604:MET:HB3	2:K:604:MET:HE2	1.87	0.42
2:K:731:ALA:HB1	2:K:771:CYS:SG	2.59	0.42
2:K:1048:TRP:CD1	2:K:1049:GLN:HG2	2.55	0.42
2:K:1236:LEU:O	2:K:1237:VAL:CG2	2.68	0.42
2:K:1248:GLU:OE2	2:K:1250:ARG:HG2	2.20	0.42
2:K:1335:PHE:HE1	2:K:1629:ILE:HD13	1.84	0.42
2:K:1424:LYS:HA	2:K:1425:PRO:HD3	1.89	0.42
2:K:1767:GLU:HB2	2:K:2016:PRO:CG	2.49	0.42
2:K:1972:ILE:H	2:K:1972:ILE:HG13	1.42	0.42
2:K:1983:LYS:HB3	2:K:1984:PRO:HD2	2.02	0.42
2:L:582:LYS:HG3	2:L:1110:VAL:CG1	2.46	0.42
2:L:641:MET:CE	2:L:676:LEU:HD12	2.49	0.42
2:L:856:THR:HG22	2:L:865:ILE:O	2.19	0.42
2:L:1064:THR:CG2	2:L:1065:CYS:N	2.81	0.42
2:L:1325:VAL:HG22	2:L:1335:PHE:CD2	2.54	0.42
2:L:1521:GLU:OE1	2:L:1521:GLU:HA	2.19	0.42
2:L:1588:ASN:HD21	2:L:1590:ILE:HD12	1.83	0.42
2:L:1637:VAL:HG11	2:L:1679:LEU:CD1	2.38	0.42
2:L:1708:LEU:HD22	2:L:1708:LEU:O	2.19	0.42
1:A:694:TYR:HD2	1:A:695:TYR:CD1	2.37	0.42
1:A:859:VAL:O	1:A:863:VAL:HG23	2.19	0.42
1:A:1071:TYR:CE2	1:A:1075:HIS:HB2	2.54	0.42
1:A:1149:LEU:HB2	1:E:1149:LEU:CB	2.45	0.42
1:B:548:VAL:HG22	1:E:569:LEU:HB2	2.01	0.42
1:B:1237:LYS:HB2	1:D:1236:TYR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:14:LEU:HD21	2:I:1844:LEU:HD21	2.01	0.42
1:C:61:LEU:HA	1:C:65:TYR:HB2	2.02	0.42
1:C:653:LYS:HD3	1:C:742:TYR:CE2	2.52	0.42
1:C:655:ALA:O	1:C:680:VAL:HA	2.20	0.42
1:D:349:MET:HE2	1:D:351:LEU:HD23	2.00	0.42
1:D:612:ILE:HA	1:D:613:PRO:HD3	1.64	0.42
1:D:987:MET:HE3	1:D:987:MET:HB3	1.86	0.42
1:D:1159:LEU:HD12	1:D:1327:ALA:HB3	2.01	0.42
1:E:329:THR:O	1:E:332:GLN:HB2	2.19	0.42
1:E:409:ASP:CG	1:E:701:ARG:NH1	2.78	0.42
1:E:501:ASP:HB2	1:E:505:ASN:HB2	2.00	0.42
1:E:740:LEU:HD12	1:E:781:ILE:HD13	2.00	0.42
1:E:740:LEU:HD23	1:E:740:LEU:HA	1.84	0.42
1:F:350:ASP:HB3	1:F:353:ALA:HB2	2.00	0.42
1:F:1199:LEU:C	1:F:1201:SER:N	2.78	0.42
1:F:1213:VAL:HG13	1:F:1217:GLU:HB2	2.01	0.42
1:F:1542:LEU:HD23	1:F:1542:LEU:HA	1.87	0.42
1:F:1691:ILE:O	1:F:1692:GLN:C	2.63	0.42
2:G:186:LEU:HD23	2:G:186:LEU:HA	1.82	0.42
2:G:196:PHE:CD2	2:G:266:LYS:CB	3.03	0.42
2:G:712:ARG:O	2:G:738:PRO:HG2	2.18	0.42
2:G:1017:LEU:HD21	2:G:1032:PRO:HB2	2.02	0.42
2:G:1084:LYS:HE3	2:G:1088:ASP:OD2	2.19	0.42
2:G:1211:ASP:HA	2:G:1212:PRO:HD2	1.85	0.42
2:G:1301:PHE:HB3	2:G:1364:ARG:HG3	2.01	0.42
2:G:1380:TYR:CD2	2:G:1380:TYR:N	2.87	0.42
2:G:1412:MET:HE3	2:G:1412:MET:HB3	1.82	0.42
2:G:1723:ASP:O	2:G:1724:LYS:C	2.62	0.42
2:G:2077:TYR:O	2:G:2078:GLU:C	2.62	0.42
2:H:283:THR:HG23	2:H:470:TYR:O	2.19	0.42
2:H:342:ASN:HD22	2:H:342:ASN:N	2.17	0.42
2:H:685:VAL:HG23	2:H:1186:ARG:HH12	1.85	0.42
2:H:725:GLN:HE21	2:H:767:ARG:HH11	1.68	0.42
2:H:731:ALA:CB	2:H:739:ILE:HD12	2.50	0.42
2:H:870:THR:HG21	2:H:1064:THR:O	2.19	0.42
2:H:914:TRP:CH2	2:H:1033:ALA:HA	2.54	0.42
2:H:1009:ASN:HD22	2:H:1010:ALA:N	2.18	0.42
2:H:1382:MET:CB	2:H:1633:ARG:HH11	2.32	0.42
2:I:158:LEU:HD12	2:I:558:LEU:HD23	2.00	0.42
2:I:189:ILE:HD12	2:I:256:VAL:HG13	2.02	0.42
2:I:787:ASP:C	2:I:790:PRO:HD2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1913:TRP:HZ3	2:I:1938:THR:HG21	1.83	0.42
2:J:137:VAL:O	2:J:141:TYR:HD1	2.03	0.42
2:J:752:HIS:CD2	2:J:866:HIS:ND1	2.88	0.42
2:J:785:SER:HB3	2:J:1094:HIS:CD2	2.55	0.42
2:J:1723:ASP:OD1	2:J:1735:ILE:HG13	2.19	0.42
2:J:2009:PHE:C	2:J:2011:ARG:H	2.28	0.42
2:K:625:GLY:C	2:K:656:ARG:HH22	2.26	0.42
2:K:657:GLY:HA3	2:K:688:GLU:HG2	2.02	0.42
2:K:1130:ILE:HD12	2:K:1133:LEU:HD22	2.01	0.42
2:K:1269:ALA:HB1	2:K:1271:TYR:CE2	2.55	0.42
2:K:1555:VAL:O	2:K:1555:VAL:HG12	2.19	0.42
2:K:1669:ALA:HB3	2:K:1679:LEU:HB2	2.01	0.42
3:K:2101:FMN:H1'2	3:K:2101:FMN:O4'	2.20	0.42
2:L:140:TYR:C	2:L:142:ALA:H	2.28	0.42
2:L:300:THR:O	2:L:304:PHE:HB2	2.19	0.42
2:L:352:SER:C	2:L:353:ILE:HG13	2.44	0.42
2:L:1009:ASN:HD22	2:L:1010:ALA:N	2.18	0.42
2:L:1207:THR:O	2:L:1215:THR:HA	2.20	0.42
2:L:1412:MET:HE3	2:L:1412:MET:HB3	1.90	0.42
2:L:1456:LEU:HD11	2:L:1543:TYR:HE2	1.85	0.42
2:L:1692:TYR:O	2:L:1833:PHE:HA	2.19	0.42
2:L:1803:THR:O	2:L:1804:GLN:C	2.61	0.42
2:L:1851:MET:SD	2:L:1856:LEU:HA	2.59	0.42
2:L:1938:THR:HG22	2:L:1977:ARG:HA	2.01	0.42
1:A:1148:LEU:HD23	1:A:1148:LEU:HA	1.74	0.42
1:A:1359:VAL:HG12	1:A:1360:GLN:N	2.34	0.42
1:B:358:PHE:O	1:B:359:VAL:C	2.62	0.42
1:B:511:VAL:HG12	1:B:512:PRO:HD2	2.02	0.42
1:B:552:ILE:HD11	1:E:566:PHE:HE1	1.84	0.42
1:B:1343:PRO:HA	1:B:1526:SER:HA	2.00	0.42
1:B:1461:PHE:HE2	1:D:1411:PHE:CE1	2.38	0.42
1:B:1674:ILE:HD12	2:H:1010:ALA:HB3	2.02	0.42
1:C:498:THR:HG21	1:C:858:LEU:HA	2.01	0.42
1:C:562:SER:HB3	1:D:551:LEU:CD2	2.50	0.42
1:C:959:PRO:HD3	2:I:974:GLU:HG2	2.01	0.42
1:C:1307:PHE:CA	1:C:1568:ALA:HB2	2.50	0.42
1:D:371:GLN:O	1:D:374:LEU:HB3	2.19	0.42
1:D:454:HIS:CD2	1:D:454:HIS:N	2.88	0.42
1:D:744:VAL:HG12	1:D:746:PHE:CD1	2.55	0.42
1:D:1164:ILE:HD13	1:D:1355:GLN:HG3	2.01	0.42
1:E:343:ILE:O	1:E:347:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:859:VAL:O	1:E:863:VAL:HG23	2.19	0.42
1:E:1082:GLU:HA	1:E:1083:PRO:HD3	1.85	0.42
1:E:1509:THR:OG1	1:E:1510:TRP:CD1	2.72	0.42
1:E:1558:GLN:HE22	1:E:1572:TRP:C	2.27	0.42
1:F:740:LEU:HD12	1:F:781:ILE:HD13	2.02	0.42
1:F:983:GLN:O	1:F:987:MET:HG3	2.20	0.42
1:F:1581:LEU:HD13	1:F:1638:HIS:HA	2.01	0.42
2:G:186:LEU:CG	2:G:256:VAL:HG22	2.49	0.42
2:G:835:ALA:HB3	2:G:1073:ALA:HB1	2.01	0.42
2:G:879:LEU:HB3	2:G:884:PHE:CE1	2.55	0.42
2:G:894:GLU:O	2:G:897:LYS:HG2	2.20	0.42
2:G:1690:THR:HG22	2:G:1691:ALA:N	2.33	0.42
2:G:1804:GLN:O	2:G:1861:PHE:HD1	2.02	0.42
2:H:356:LEU:O	2:H:387:ARG:HA	2.20	0.42
2:H:1290:TYR:CD2	2:H:1299:VAL:HG12	2.52	0.42
2:H:1371:LEU:HG	2:H:1600:ALA:HB2	2.00	0.42
2:H:1723:ASP:O	2:H:1724:LYS:C	2.61	0.42
2:I:608:MET:HA	3:I:2101:FMN:N5	2.34	0.42
2:I:1017:LEU:O	2:I:1021:GLN:HG3	2.20	0.42
2:I:1036:GLU:H	2:I:1036:GLU:HG3	1.46	0.42
2:I:1299:VAL:HA	2:I:1300:PRO:HD3	1.83	0.42
2:I:1308:VAL:CG1	2:I:1398:THR:HG23	2.49	0.42
2:I:1456:LEU:HD11	2:I:1543:TYR:HE2	1.84	0.42
2:I:1471:GLU:H	2:I:1471:GLU:HG3	1.44	0.42
2:I:1873:ARG:HB3	2:I:1879:SER:HA	2.01	0.42
2:J:26:LEU:HD22	2:J:53:LEU:HD21	2.00	0.42
2:J:129:ILE:HG21	2:J:132:LYS:CG	2.50	0.42
2:J:780:SER:HA	3:J:2101:FMN:O5'	2.19	0.42
2:J:829:LYS:O	2:J:832:ILE:HB	2.20	0.42
2:J:1220:ARG:HB3	2:J:1228:LEU:HB2	2.01	0.42
2:J:1335:PHE:N	2:J:1335:PHE:HD1	2.17	0.42
2:J:1804:GLN:O	2:J:1861:PHE:HD1	2.03	0.42
2:J:1944:ASN:HA	2:J:1993:PHE:HD1	1.83	0.42
2:K:140:TYR:C	2:K:142:ALA:H	2.28	0.42
2:K:609:THR:CB	2:K:610:PRO:HD3	2.50	0.42
2:K:718:PRO:HG2	2:K:741:LEU:CD1	2.49	0.42
2:K:747:ARG:H	2:K:747:ARG:HG3	1.59	0.42
2:K:791:TYR:HA	2:K:796:TRP:HD1	1.82	0.42
2:K:952:ASP:OD1	2:K:953:PRO:HD2	2.19	0.42
2:K:962:PHE:O	2:K:965:ARG:HB3	2.20	0.42
2:K:1199:THR:HG22	2:K:1200:ARG:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1635:TYR:CE2	2:K:1637:VAL:HG23	2.55	0.42
2:K:1942:VAL:O	2:K:1946:LEU:HG	2.20	0.42
2:L:705:TYR:HA	2:L:709:LEU:CD2	2.49	0.42
2:L:922:GLU:HA	2:L:923:PRO:HD3	1.89	0.42
2:L:980:LEU:CD2	2:L:986:LEU:HD21	2.49	0.42
2:L:1248:GLU:OE2	2:L:1250:ARG:HG2	2.20	0.42
2:L:1346:MET:HE2	2:L:1346:MET:HB3	1.78	0.42
2:L:1351:VAL:HG23	2:L:1584:SER:HA	2.01	0.42
2:L:1672:LYS:O	2:L:1672:LYS:HG2	2.18	0.42
2:L:1804:GLN:O	2:L:1861:PHE:HD1	2.03	0.42
2:L:1873:ARG:NH1	2:L:2002:ASP:CB	2.82	0.42
2:L:1873:ARG:HB3	2:L:1879:SER:HA	2.00	0.42
1:A:486:VAL:HG22	1:A:648:LEU:C	2.45	0.42
1:A:959:PRO:HB3	2:G:972:SER:HA	2.00	0.42
1:A:1015:GLU:HA	1:A:1561:LEU:HD12	2.01	0.42
1:A:1213:VAL:HG22	1:A:1300:ARG:HE	1.84	0.42
1:A:1638:HIS:CG	1:A:1639:PRO:HD2	2.55	0.42
1:B:415:TYR:CD2	1:B:1614:THR:HA	2.54	0.42
1:B:418:ILE:HA	1:B:462:THR:HB	2.02	0.42
1:B:432:GLN:O	1:B:436:ILE:HG13	2.19	0.42
1:B:828:TRP:NE1	1:B:838:THR:HA	2.30	0.42
1:B:1232:LEU:HD11	1:D:1232:LEU:HD21	2.02	0.42
1:B:1402:THR:HG22	1:D:1696:PHE:O	2.20	0.42
1:B:1696:PHE:O	1:D:1402:THR:HG22	2.20	0.42
1:C:350:ASP:HB3	1:C:353:ALA:HB2	2.00	0.42
1:C:1184:ASP:OD1	1:C:1185:PRO:HD2	2.19	0.42
1:D:329:THR:O	1:D:332:GLN:HB2	2.20	0.42
1:D:343:ILE:O	1:D:347:LEU:HG	2.19	0.42
1:D:418:ILE:HA	1:D:462:THR:HB	2.01	0.42
1:D:527:ALA:CB	1:D:637:LEU:HD13	2.49	0.42
1:D:948:HIS:O	1:D:952:TYR:HD2	2.02	0.42
1:E:21:GLN:HE21	1:E:21:GLN:HB3	1.59	0.42
1:E:405:TRP:CE3	1:E:405:TRP:HA	2.55	0.42
1:E:613:PRO:C	1:E:615:LEU:N	2.78	0.42
1:E:718:SER:HB3	1:E:721:ASP:HB2	2.01	0.42
1:E:997:THR:HG22	1:E:1361:VAL:HG22	2.02	0.42
1:E:1254:PHE:HB2	1:E:1257:THR:OG1	2.19	0.42
1:E:1601:GLN:HB2	1:E:1602:PHE:CD2	2.54	0.42
1:F:553:ARG:HH22	1:F:563:GLN:HB3	1.84	0.42
1:F:616:HIS:C	1:F:617:LEU:HD23	2.44	0.42
1:F:1031:MET:HE2	1:F:1031:MET:HB3	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1068:TYR:O	1:F:1072:ILE:HG13	2.20	0.42
1:F:1156:PHE:CZ	1:F:1316:TYR:HA	2.54	0.42
1:F:1177:GLU:O	1:F:1180:ILE:HB	2.20	0.42
2:G:253:ILE:HB	2:G:287:GLN:NE2	2.35	0.42
2:G:437:ALA:HA	2:G:438:PRO:HD3	1.85	0.42
2:G:540:ILE:CD1	2:G:557:GLU:HB3	2.50	0.42
2:G:595:SER:HB2	2:G:600:VAL:O	2.20	0.42
2:G:787:ASP:C	2:G:790:PRO:HD2	2.45	0.42
2:G:818:THR:HG22	2:G:829:LYS:CB	2.50	0.42
2:G:988:GLU:HA	2:G:989:PRO:HD3	1.69	0.42
2:G:1205:GLU:O	2:G:1217:ILE:HA	2.19	0.42
2:G:1375:HIS:CE1	2:G:1610:MET:CG	3.03	0.42
2:G:1491:ARG:C	2:G:1492:LEU:HD23	2.44	0.42
2:H:47:GLN:NE2	2:I:23:PRO:HB2	2.33	0.42
2:H:116:GLY:O	2:H:561:ARG:NH1	2.52	0.42
2:H:227:ILE:H	2:H:227:ILE:HG13	1.65	0.42
2:H:580:LEU:O	2:H:581:VAL:HG23	2.20	0.42
2:H:604:MET:HG3	2:H:627:HIS:HD2	1.84	0.42
2:H:663:ILE:HD12	2:H:663:ILE:N	2.35	0.42
2:H:1248:GLU:OE2	2:H:1250:ARG:HG2	2.19	0.42
2:H:1631:ARG:NH2	2:H:1688:PRO:HA	2.34	0.42
2:H:1944:ASN:HA	2:H:1993:PHE:HD1	1.84	0.42
2:I:80:ILE:HG12	2:I:105:ILE:HG22	2.01	0.42
2:I:211:LEU:HB3	2:I:316:PHE:CZ	2.55	0.42
2:I:350:MET:SD	2:I:392:THR:CG2	3.08	0.42
2:I:740:ILE:HA	2:I:775:VAL:HB	2.01	0.42
2:I:771:CYS:HB3	2:I:774:ILE:CD1	2.45	0.42
2:I:1153:ASN:HD22	2:I:1153:ASN:HA	1.57	0.42
2:I:1650:THR:O	2:I:1669:ALA:HA	2.19	0.42
2:I:1672:LYS:HG2	2:I:1672:LYS:O	2.20	0.42
2:I:1730:TYR:HA	2:I:1761:TYR:HE1	1.83	0.42
2:I:2058:VAL:CG1	2:I:2067:ILE:HD12	2.49	0.42
2:J:258:LEU:CD1	2:J:291:VAL:HG13	2.50	0.42
2:J:276:LEU:HD11	2:J:296:ALA:HA	2.00	0.42
2:J:1330:ASN:HD22	2:J:1618:SER:HB2	1.84	0.42
2:J:1621:GLU:HG2	2:J:1632:VAL:HG11	2.01	0.42
2:J:1957:MET:HE1	2:J:1962:LEU:HD22	2.02	0.42
2:K:369:ASN:HB3	2:K:377:HIS:ND1	2.35	0.42
2:K:460:ILE:HA	2:K:461:PRO:HD3	1.82	0.42
2:K:485:ASP:CB	2:K:488:PRO:CD	2.91	0.42
2:K:601:PRO:HB2	2:K:626:TYR:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:690:LEU:HD22	2:K:691:THR:N	2.34	0.42
2:K:1266:HIS:C	2:K:1268:GLU:N	2.77	0.42
2:K:1515:LEU:HB3	2:K:1525:VAL:HG21	2.02	0.42
2:K:1607:THR:HG22	2:K:1608:HIS:N	2.33	0.42
2:K:2009:PHE:C	2:K:2011:ARG:H	2.28	0.42
2:L:197:VAL:O	2:L:200:LEU:HD23	2.20	0.42
2:L:595:SER:HB2	2:L:600:VAL:O	2.20	0.42
2:L:741:LEU:O	2:L:741:LEU:CG	2.67	0.42
2:L:875:PHE:HE2	2:L:906:LEU:CD2	2.32	0.42
2:L:917:ARG:NH1	2:L:1057:TYR:OH	2.53	0.42
2:L:1442:TYR:HA	2:L:1445:THR:CG2	2.45	0.42
1:A:631:LYS:O	1:A:635:ILE:HG13	2.19	0.42
1:A:1651:TYR:CE2	1:A:1655:CYS:SG	3.13	0.42
1:B:555:GLN:HG2	1:B:557:ARG:NH2	2.35	0.42
1:B:1164:ILE:HD12	1:B:1355:GLN:HG3	2.02	0.42
1:C:689:ARG:NH1	1:C:1339:GLU:OE2	2.53	0.42
1:C:1278:GLY:CA	1:C:1630:LYS:HE2	2.43	0.42
1:C:1330:GLU:OE2	1:C:1342:ARG:NH2	2.53	0.42
1:C:1338:GLY:H	1:C:1340:MET:HG3	1.84	0.42
1:D:23:ALA:HA	2:J:2007:SER:O	2.19	0.42
1:D:34:VAL:HG11	2:J:2047:PRO:HD3	2.01	0.42
1:D:47:ILE:HB	2:J:1694:PHE:CE1	2.54	0.42
1:D:511:VAL:HG12	1:D:512:PRO:HD2	2.02	0.42
1:D:612:ILE:HG23	1:D:613:PRO:CD	2.49	0.42
1:D:689:ARG:CZ	1:D:1339:GLU:CG	2.90	0.42
1:D:749:ILE:CD1	1:D:769:ILE:HD12	2.50	0.42
1:D:799:LEU:HD12	1:D:821:LEU:HB3	2.01	0.42
1:D:1425:LEU:HD21	1:D:1429:ARG:NH2	2.15	0.42
1:E:874:GLN:H	1:E:874:GLN:HG2	1.35	0.42
1:F:400:ASP:C	1:F:400:ASP:OD1	2.62	0.42
1:F:449:GLN:O	1:F:450:TYR:C	2.62	0.42
1:F:754:ARG:HH21	1:F:762:LYS:HD3	1.84	0.42
1:F:893:GLN:OE1	2:G:1751:GLY:HA2	2.19	0.42
2:G:411:PRO:HD2	2:G:414:LEU:HD11	2.02	0.42
2:G:468:PRO:HB3	2:G:477:ASP:OD2	2.19	0.42
2:G:870:THR:HG21	2:G:1064:THR:O	2.20	0.42
2:G:883:ILE:HG22	2:G:884:PHE:N	2.35	0.42
2:G:1276:GLU:OE1	2:G:1278:MET:HE1	2.19	0.42
2:G:1807:GLN:HB3	2:G:1860:VAL:CG1	2.49	0.42
2:G:1847:LEU:HD12	2:G:1847:LEU:N	2.34	0.42
2:H:325:ALA:C	2:H:327:PRO:HD3	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:347:PRO:HA	2:H:432:PHE:CE1	2.54	0.42
2:H:604:MET:HG3	2:H:627:HIS:CD2	2.54	0.42
2:H:618:VAL:HG13	2:H:619:ALA:N	2.34	0.42
2:H:621:THR:OG1	2:H:1083:ILE:HD13	2.19	0.42
2:H:785:SER:O	2:H:789:TYR:HB2	2.19	0.42
2:H:871:ARG:HB2	2:H:909:ASP:HB2	2.02	0.42
2:H:1028:VAL:HG22	2:H:1030:PHE:CE2	2.55	0.42
2:H:1207:THR:O	2:H:1215:THR:HA	2.19	0.42
2:H:1380:TYR:CD2	2:H:1380:TYR:N	2.87	0.42
2:I:120:HIS:HD2	2:I:137:VAL:HG21	1.83	0.42
2:I:196:PHE:O	2:I:262:MET:HE1	2.19	0.42
2:I:291:VAL:O	2:I:295:ILE:HB	2.20	0.42
2:I:692:ILE:HD13	2:I:697:PRO:HG2	2.02	0.42
2:I:1405:ILE:HG22	2:I:1445:THR:OG1	2.19	0.42
2:J:141:TYR:CD2	2:J:196:PHE:CZ	3.07	0.42
2:J:300:THR:O	2:J:304:PHE:HB2	2.20	0.42
2:J:764:MET:O	2:J:765:TYR:C	2.62	0.42
2:J:787:ASP:C	2:J:790:PRO:HD2	2.45	0.42
2:J:834:ASP:O	2:J:836:PRO:HD3	2.20	0.42
2:J:988:GLU:HA	2:J:989:PRO:HD3	1.77	0.42
2:J:1636:HIS:O	2:J:1681:GLY:HA3	2.19	0.42
2:J:1700:GLN:HB2	2:J:1704:MET:HE1	2.00	0.42
2:J:1803:THR:O	2:J:1804:GLN:C	2.60	0.42
2:J:1953:ILE:O	2:J:1957:MET:HG2	2.20	0.42
2:K:208:LEU:HB3	2:K:225:LEU:HD13	2.02	0.42
2:K:310:ARG:HA	2:K:458:MET:HE1	2.01	0.42
2:K:349:PRO:O	2:K:392:THR:HG22	2.20	0.42
2:K:652:ILE:HG23	2:K:656:ARG:HB2	2.01	0.42
2:K:737:PHE:HA	2:K:738:PRO:HD3	1.80	0.42
2:K:818:THR:HG22	2:K:829:LYS:CB	2.49	0.42
2:K:914:TRP:CH2	2:K:1033:ALA:HA	2.54	0.42
2:K:930:THR:HA	2:K:1007:LEU:HA	2.02	0.42
2:K:1303:THR:HA	2:K:1304:PRO:HD3	1.92	0.42
2:K:1361:ILE:HD11	2:K:1433:PHE:CD2	2.54	0.42
2:K:1933:LEU:O	2:K:1989:LEU:HD11	2.20	0.42
2:L:68:GLU:HB3	2:L:69:PRO:HD2	2.01	0.42
2:L:114:MET:HG2	2:L:122:ILE:HG21	2.02	0.42
2:L:314:LEU:O	2:L:318:ILE:HG13	2.20	0.42
2:L:609:THR:CB	2:L:610:PRO:HD3	2.49	0.42
2:L:1199:THR:HB	2:L:1202:MET:HB3	2.01	0.42
2:L:1690:THR:HG22	2:L:1691:ALA:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:558:LEU:HA	1:F:557:ARG:HH11	1.85	0.42
1:A:726:VAL:HG21	1:A:780:ALA:CB	2.50	0.42
1:A:962:ASN:HB3	2:G:969:ARG:CD	2.48	0.42
1:A:1078:ILE:HG21	1:A:1352:MET:CE	2.50	0.42
1:A:1176:PRO:O	1:A:1180:ILE:HG12	2.20	0.42
1:A:1386:THR:HG22	1:A:1387:ASP:H	1.84	0.42
1:A:1647:ASP:C	1:A:1649:ALA:N	2.76	0.42
1:B:40:ARG:NH2	1:B:72:THR:HG22	2.35	0.42
1:B:776:ARG:NH1	1:E:759:ILE:O	2.52	0.42
1:B:1705:GLN:HE21	1:B:1709:GLY:HA2	1.84	0.42
1:C:422:LEU:HB3	1:C:429:ILE:CD1	2.49	0.42
1:C:1020:PHE:CE2	1:C:1028:MET:HG3	2.54	0.42
1:C:1254:PHE:HB2	1:C:1257:THR:OG1	2.20	0.42
1:D:1640:LYS:CG	1:D:1641:TYR:N	2.82	0.42
1:E:64:LYS:HE3	2:K:1923:ALA:CB	2.50	0.42
1:E:855:ALA:HA	1:E:919:ARG:NH2	2.25	0.42
2:G:189:ILE:HD12	2:G:256:VAL:HG13	2.01	0.42
2:G:1913:TRP:HZ3	2:G:1938:THR:HG21	1.84	0.42
2:H:616:ASP:N	2:H:616:ASP:OD1	2.51	0.42
2:H:664:TYR:CD1	2:H:670:MET:HE1	2.55	0.42
2:H:734:ASN:ND2	2:H:734:ASN:N	2.68	0.42
2:H:765:TYR:CD1	2:H:805:MET:HE3	2.53	0.42
2:H:942:MET:O	2:H:951:ILE:HG13	2.20	0.42
2:H:1245:THR:HG23	2:H:1260:THR:OG1	2.19	0.42
2:H:1290:TYR:CG	2:H:1299:VAL:CG1	2.89	0.42
2:H:1500:ASN:C	2:H:1502:ASN:N	2.78	0.42
2:I:106:LEU:HD11	2:I:143:GLY:O	2.19	0.42
2:I:321:ARG:HE	2:I:450:HIS:HB3	1.84	0.42
2:I:349:PRO:O	2:I:392:THR:HG22	2.20	0.42
2:I:699:ILE:H	2:I:699:ILE:CD1	2.32	0.42
2:I:703:ASN:O	2:I:707:GLN:HG3	2.19	0.42
2:I:894:GLU:CD	2:I:897:LYS:HD3	2.45	0.42
2:I:1022:ARG:HG2	2:I:1022:ARG:H	1.70	0.42
2:I:1130:ILE:HD12	2:I:1133:LEU:HD22	2.01	0.42
2:I:1382:MET:HB3	2:I:1382:MET:HE2	1.66	0.42
2:I:1700:GLN:O	2:I:1700:GLN:HG2	2.19	0.42
2:J:159:PHE:CD2	2:J:169:ILE:HD12	2.54	0.42
2:J:186:LEU:HD11	2:J:255:LEU:HD23	2.02	0.42
2:J:580:LEU:O	2:J:581:VAL:HG23	2.20	0.42
2:J:942:MET:CE	2:J:955:LEU:HB3	2.44	0.42
2:J:1154:LEU:HD13	2:J:1198:PRO:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1236:LEU:O	2:J:1237:VAL:HG23	2.19	0.42
2:J:1269:ALA:HB1	2:J:1271:TYR:CE2	2.55	0.42
2:J:1588:ASN:HD21	2:J:1590:ILE:HD12	1.84	0.42
2:J:1904:VAL:HG13	2:J:1915:LEU:HG	2.02	0.42
2:J:1960:MET:SD	2:J:1965:VAL:HG13	2.60	0.42
2:K:347:PRO:HA	2:K:432:PHE:CE1	2.55	0.42
2:K:727:VAL:HA	2:K:730:ILE:CG1	2.50	0.42
2:K:1048:TRP:NE1	2:K:1049:GLN:HG2	2.35	0.42
2:K:1304:PRO:O	2:K:1307:ALA:CB	2.67	0.42
2:K:1904:VAL:HG13	2:K:1915:LEU:HG	2.02	0.42
2:L:126:VAL:O	2:L:133:LYS:HE3	2.20	0.42
2:L:306:THR:O	2:L:310:ARG:HG3	2.19	0.42
2:L:462:ALA:HB3	2:L:481:LEU:O	2.19	0.42
2:L:489:GLU:HG2	2:L:492:ARG:CZ	2.50	0.42
2:L:1316:VAL:HG13	2:L:1348:PHE:HE2	1.85	0.42
2:L:1635:TYR:CE2	2:L:1637:VAL:HG23	2.54	0.42
2:L:1802:ALA:CB	2:L:1804:GLN:HE22	2.22	0.42
2:L:1863:ARG:O	2:L:1867:MET:HG3	2.19	0.42
2:L:1886:VAL:CG1	2:L:1900:LEU:HD11	2.50	0.42
1:A:371:GLN:O	1:A:374:LEU:HB3	2.20	0.42
1:A:1703:VAL:HG23	1:A:1713:PHE:CD1	2.55	0.42
1:B:715:ASN:HD22	1:B:715:ASN:C	2.28	0.42
1:B:1586:VAL:HA	1:B:1587:PRO:HD3	1.82	0.42
1:B:1670:HIS:ND1	2:H:1009:ASN:ND2	2.68	0.42
1:C:22:PHE:O	2:I:2006:HIS:HA	2.20	0.42
1:C:562:SER:OG	1:D:551:LEU:HD21	2.20	0.42
1:C:701:ARG:NH1	1:C:1610:ARG:NH2	2.68	0.42
1:C:744:VAL:HG12	1:C:746:PHE:CD1	2.54	0.42
1:D:1184:ASP:OD1	1:D:1185:PRO:HD2	2.20	0.42
1:D:1581:LEU:HD13	1:D:1638:HIS:HA	2.02	0.42
1:E:1100:VAL:HG21	1:E:1150:ILE:CD1	2.47	0.42
1:E:1232:LEU:HD23	1:E:1232:LEU:HA	1.83	0.42
1:E:1419:LYS:O	1:E:1422:ARG:HB2	2.19	0.42
1:E:1640:LYS:CG	1:E:1641:TYR:N	2.83	0.42
1:F:498:THR:HG22	1:F:508:TYR:CD1	2.53	0.42
1:F:500:ILE:HG22	1:F:929:ARG:NH1	2.34	0.42
1:F:715:ASN:HD22	1:F:715:ASN:C	2.28	0.42
1:F:744:VAL:HG13	1:F:746:PHE:CE1	2.54	0.42
1:F:967:PHE:HB3	1:F:968:PRO:CD	2.50	0.42
1:F:1273:ILE:O	1:F:1273:ILE:HG13	2.19	0.42
1:F:1275:THR:HA	1:F:1276:PRO:HD3	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1329:GLU:O	1:F:1333:ARG:HG3	2.20	0.42
1:F:1601:GLN:HB2	1:F:1602:PHE:CD2	2.55	0.42
2:G:320:LEU:O	2:G:324:GLN:HG3	2.20	0.42
2:G:609:THR:HG23	3:G:2101:FMN:O4	2.20	0.42
2:G:691:THR:OG1	2:G:715:SER:HB3	2.20	0.42
2:G:938:MET:CE	2:G:959:THR:HA	2.50	0.42
2:G:1338:ARG:HH21	2:I:327:PRO:CD	2.24	0.42
2:G:1588:ASN:HA	2:G:1589:PRO:HD3	1.88	0.42
2:H:129:ILE:HG21	2:H:132:LYS:CG	2.50	0.42
2:H:258:LEU:HD12	2:H:291:VAL:HG13	2.01	0.42
2:H:747:ARG:HD2	2:H:780:SER:OG	2.20	0.42
2:H:1301:PHE:HD1	2:H:1364:ARG:HG2	1.85	0.42
2:H:1456:LEU:HD11	2:H:1543:TYR:HE2	1.84	0.42
2:H:1723:ASP:CG	2:H:1735:ILE:HG13	2.44	0.42
2:H:1953:ILE:O	2:H:1957:MET:HG2	2.19	0.42
2:I:353:ILE:O	2:I:353:ILE:HG22	2.20	0.42
2:I:356:LEU:O	2:I:387:ARG:HA	2.20	0.42
2:I:507:PHE:HA	2:I:508:PRO:HD3	1.90	0.42
2:I:1938:THR:HG22	2:I:1977:ARG:HA	2.01	0.42
2:I:1944:ASN:HA	2:I:1993:PHE:HD1	1.82	0.42
2:J:765:TYR:CD1	2:J:805:MET:HE3	2.55	0.42
2:J:1257:VAL:HA	2:J:1258:PRO:HD3	1.72	0.42
2:J:1863:ARG:HB2	2:J:2017:PHE:CE1	2.55	0.42
2:K:211:LEU:HD21	2:K:313:GLU:HG3	2.02	0.42
2:K:376:ARG:HA	2:K:443:TYR:OH	2.19	0.42
2:K:536:GLY:C	2:K:569:ALA:HB3	2.44	0.42
2:K:580:LEU:O	2:K:581:VAL:HG23	2.19	0.42
2:K:1176:PHE:CZ	2:K:1192:LEU:HD13	2.55	0.42
2:K:1336:VAL:HG12	2:K:1337:ASP:N	2.35	0.42
2:K:1349:ALA:HB2	2:K:1427:MET:SD	2.60	0.42
2:K:1350:ILE:HD13	2:K:1350:ILE:HA	1.71	0.42
2:L:36:LEU:HA	2:L:36:LEU:HD23	1.73	0.42
2:L:281:GLY:HA3	2:L:470:TYR:CE1	2.52	0.42
2:L:356:LEU:O	2:L:387:ARG:HA	2.20	0.42
2:L:428:PHE:CD1	2:L:428:PHE:C	2.98	0.42
1:A:577:LEU:CB	1:A:579:MET:HE2	2.47	0.41
1:A:1210:TYR:HA	1:A:1213:VAL:O	2.20	0.41
1:A:1586:VAL:HA	1:A:1587:PRO:HD3	1.85	0.41
1:B:422:LEU:HB3	1:B:429:ILE:CD1	2.48	0.41
1:B:557:ARG:NH1	1:E:558:LEU:HD23	2.35	0.41
1:B:628:TYR:OH	1:B:630:LYS:HG2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1082:GLU:HA	1:B:1083:PRO:HD3	1.88	0.41
1:C:371:GLN:O	1:C:374:LEU:HB3	2.20	0.41
1:C:964:LYS:H	1:C:964:LYS:HG3	1.70	0.41
1:C:1213:VAL:CG1	1:C:1214:HIS:N	2.81	0.41
1:C:1220:ASN:HB3	1:C:1273:ILE:HG22	2.02	0.41
1:C:1236:TYR:O	1:F:1237:LYS:HB2	2.20	0.41
1:C:1294:ILE:HD11	1:C:1302:CYS:HB3	2.02	0.41
1:C:1446:GLU:O	1:C:1450:ILE:HG13	2.20	0.41
1:D:14:LEU:HD23	2:J:2035:LEU:HD13	2.02	0.41
1:D:1419:LYS:HA	1:D:1422:ARG:HB2	2.02	0.41
1:E:28:TRP:CE2	1:E:53:LEU:HD22	2.54	0.41
1:E:673:LEU:HD21	1:E:884:MET:CE	2.50	0.41
1:F:740:LEU:HD23	1:F:740:LEU:HA	1.84	0.41
1:F:1107:GLU:HA	1:F:1108:PRO:HD3	1.74	0.41
2:G:197:VAL:CG2	2:G:263:ILE:HD11	2.48	0.41
2:G:262:MET:HE3	2:G:262:MET:HB3	1.67	0.41
2:G:381:SER:C	2:G:382:LEU:HD23	2.45	0.41
2:G:612:THR:HG21	2:G:629:GLU:O	2.20	0.41
2:G:928:ASP:C	2:G:1007:LEU:HD23	2.44	0.41
2:G:1015:HIS:CD2	2:G:1019:LEU:HD11	2.55	0.41
2:G:1097:PHE:HD2	2:G:1100:ARG:NH1	2.16	0.41
2:G:1833:PHE:CE1	2:G:2039:TYR:HB2	2.55	0.41
2:G:1944:ASN:HA	2:G:1993:PHE:HD1	1.85	0.41
2:H:437:ALA:HA	2:H:438:PRO:HD3	1.86	0.41
2:H:690:LEU:HD22	2:H:691:THR:H	1.85	0.41
2:H:858:LEU:HD23	2:H:858:LEU:HA	1.89	0.41
2:H:875:PHE:CZ	2:H:879:LEU:HD11	2.55	0.41
2:H:887:ASP:O	2:H:888:ARG:C	2.63	0.41
2:H:1266:HIS:HE1	2:H:1275:ARG:CD	2.20	0.41
2:H:1863:ARG:HB2	2:H:2017:PHE:CE1	2.55	0.41
2:I:176:GLN:HB3	2:I:435:ILE:HG12	2.02	0.41
2:I:197:VAL:CG2	2:I:263:ILE:HD11	2.50	0.41
2:I:258:LEU:CD1	2:I:291:VAL:HG13	2.49	0.41
2:I:534:GLY:HA2	2:I:572:TRP:CZ3	2.55	0.41
2:I:1741:ASN:ND2	2:I:1798:GLY:HA3	2.35	0.41
2:I:2059:HIS:HB2	2:I:2067:ILE:HG21	2.01	0.41
2:J:120:HIS:HD2	2:J:137:VAL:HG21	1.85	0.41
2:J:353:ILE:O	2:J:353:ILE:HG22	2.20	0.41
2:J:357:THR:HG22	2:J:359:SER:H	1.85	0.41
2:J:358:ARG:HH21	2:J:383:VAL:HG21	1.84	0.41
2:J:460:ILE:HA	2:J:461:PRO:HD3	1.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:705:TYR:HA	2:J:709:LEU:CD2	2.49	0.41
2:J:858:LEU:HD23	2:J:864:PRO:HA	2.02	0.41
2:J:1704:MET:SD	2:J:1810:LEU:HD23	2.60	0.41
2:K:649:GLU:HG3	2:K:650:LYS:N	2.34	0.41
2:K:825:SER:HB2	2:K:1053:ILE:HG13	2.02	0.41
2:K:1017:LEU:HD21	2:K:1032:PRO:HB2	2.01	0.41
2:K:1067:LEU:CD1	3:K:2101:FMN:HM72	2.41	0.41
2:K:1358:THR:O	2:K:1361:ILE:HG13	2.20	0.41
2:K:1588:ASN:HD21	2:K:1590:ILE:HD12	1.85	0.41
2:K:1881:TYR:OH	2:K:2009:PHE:HE1	2.03	0.41
2:K:2005:PHE:HA	2:K:2010:LEU:CD1	2.34	0.41
2:L:250:PHE:CD2	2:L:287:GLN:HG3	2.54	0.41
2:L:251:PRO:HG3	2:L:316:PHE:N	2.35	0.41
2:L:649:GLU:HG3	2:L:650:LYS:N	2.34	0.41
2:L:727:VAL:HA	2:L:730:ILE:HG12	2.01	0.41
2:L:788:THR:HG21	2:L:810:CYS:SG	2.59	0.41
2:L:1053:ILE:CD1	2:L:1061:VAL:HG13	2.49	0.41
2:L:1314:GLU:O	2:L:1394:VAL:HA	2.20	0.41
2:L:1764:MET:HG3	2:L:1781:PHE:CE1	2.54	0.41
2:L:1942:VAL:O	2:L:1946:LEU:HG	2.21	0.41
1:A:13:LEU:HD11	2:G:2058:VAL:HG21	2.02	0.41
1:A:70:ALA:HB2	2:I:407:LYS:HZ1	1.84	0.41
1:A:89:TYR:CE1	2:G:1821:MET:HG2	2.54	0.41
1:A:414:TYR:CE2	1:A:418:ILE:HD11	2.55	0.41
1:A:427:ARG:O	1:A:430:VAL:HB	2.20	0.41
1:A:655:ALA:O	1:A:680:VAL:HA	2.20	0.41
1:A:667:ALA:O	1:A:670:LEU:HB3	2.20	0.41
1:A:997:THR:HG21	1:A:1363:MET:HE2	2.02	0.41
1:A:1207:TYR:CE1	1:A:1686:PRO:HG3	2.55	0.41
1:A:1359:VAL:CG1	1:A:1360:GLN:N	2.83	0.41
1:B:533:SER:C	1:B:534:GLN:O	2.62	0.41
1:B:1414:PRO:HD2	1:D:1473:HIS:HD2	1.86	0.41
1:B:1525:THR:O	1:B:1526:SER:HB3	2.20	0.41
1:C:358:PHE:CD2	1:C:359:VAL:N	2.88	0.41
1:C:687:PHE:C	1:C:687:PHE:CD2	2.98	0.41
1:D:40:ARG:NH2	1:D:72:THR:HG22	2.35	0.41
1:D:754:ARG:HH21	1:D:762:LYS:HD3	1.85	0.41
1:D:1525:THR:O	1:D:1526:SER:HB3	2.19	0.41
1:E:635:ILE:HG13	1:E:635:ILE:H	1.58	0.41
1:E:872:SER:OG	1:E:874:GLN:HG3	2.19	0.41
1:E:1321:MET:HE2	1:E:1321:MET:HB3	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1420:TYR:O	1:E:1424:GLN:HG2	2.20	0.41
1:F:427:ARG:HD2	1:F:490:VAL:HG12	2.02	0.41
1:F:577:LEU:HD23	1:F:584:ILE:HG21	2.02	0.41
1:F:683:THR:HB	1:F:714:PHE:CB	2.46	0.41
1:F:728:TYR:CE2	1:F:736:LEU:HD13	2.56	0.41
2:G:911:GLN:HE21	2:G:1064:THR:HG23	1.85	0.41
2:G:1361:ILE:HD11	2:G:1433:PHE:CD2	2.55	0.41
2:G:1578:GLU:O	2:G:1582:ARG:HD2	2.20	0.41
2:G:1616:VAL:O	2:G:1620:VAL:HG23	2.20	0.41
2:H:182:TYR:CD1	2:H:182:TYR:C	2.99	0.41
2:H:659:THR:HA	2:H:689:GLY:O	2.20	0.41
2:H:1179:GLU:HB3	2:H:1193:LYS:HE3	2.02	0.41
2:H:1220:ARG:HB3	2:H:1228:LEU:HB2	2.01	0.41
2:H:1653:LEU:HD21	2:H:1667:VAL:HG13	2.01	0.41
2:H:1692:TYR:O	2:H:1833:PHE:HA	2.19	0.41
2:H:1700:GLN:HG2	2:H:1700:GLN:O	2.20	0.41
2:H:1881:TYR:CG	2:H:2004:PRO:HG3	2.54	0.41
2:I:141:TYR:HA	2:I:144:ARG:HB3	2.01	0.41
2:I:381:SER:HB2	2:I:440:HIS:HB2	2.03	0.41
2:I:652:ILE:CG2	2:I:656:ARG:HB2	2.50	0.41
2:I:785:SER:CB	2:I:1094:HIS:CD2	3.03	0.41
2:I:917:ARG:NH1	2:I:1057:TYR:OH	2.53	0.41
2:I:1220:ARG:HA	2:I:1229:VAL:O	2.20	0.41
2:I:1335:PHE:N	2:I:1335:PHE:HD1	2.18	0.41
2:I:1382:MET:HG2	2:I:1427:MET:HE2	2.01	0.41
2:I:1406:ASN:HB3	2:I:1411:LYS:HG3	2.01	0.41
2:I:1430:THR:HG22	2:I:1431:SER:N	2.35	0.41
2:I:1700:GLN:HB2	2:I:1704:MET:HE1	2.02	0.41
2:I:1805:PHE:O	2:I:1808:PRO:HD2	2.20	0.41
2:J:1061:VAL:HG11	2:J:1066:ILE:HD11	2.01	0.41
2:J:1081:GLU:H	2:J:1081:GLU:HG3	1.67	0.41
2:J:1291:ARG:HD2	2:J:1297:LYS:HG2	2.02	0.41
2:J:1873:ARG:HB3	2:J:1879:SER:HA	2.02	0.41
2:K:605:VAL:CB	2:K:628:ILE:HG13	2.44	0.41
2:K:725:GLN:HE21	2:K:767:ARG:HH11	1.67	0.41
2:K:1093:ASP:O	2:K:1097:PHE:HB2	2.20	0.41
2:K:1183:GLN:HB3	2:K:1278:MET:HE3	1.97	0.41
2:L:159:PHE:CZ	2:L:275:LEU:HD21	2.54	0.41
2:L:433:LEU:C	2:L:435:ILE:H	2.28	0.41
2:L:612:THR:CG2	2:L:629:GLU:O	2.68	0.41
2:L:1335:PHE:CD1	2:L:1335:PHE:N	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1793:TYR:CD2	2:L:1805:PHE:CZ	3.08	0.41
2:L:1863:ARG:HB2	2:L:2017:PHE:CE1	2.55	0.41
1:A:24:MET:HE2	2:G:2043:VAL:HG13	2.02	0.41
1:A:413:MET:O	1:A:416:ASP:HB2	2.20	0.41
1:A:418:ILE:HA	1:A:462:THR:HB	2.02	0.41
1:A:484:PRO:HA	1:A:485:PRO:HD3	1.65	0.41
1:A:1269:SER:O	1:E:1386:THR:HB	2.20	0.41
1:A:1581:LEU:HD13	1:A:1638:HIS:HA	2.03	0.41
1:B:329:THR:O	1:B:332:GLN:HB2	2.20	0.41
1:B:490:VAL:HG12	1:B:490:VAL:O	2.19	0.41
1:B:626:TRP:CZ3	1:B:898:PHE:HB2	2.54	0.41
1:B:960:ARG:NH1	2:H:968:GLU:OE1	2.47	0.41
1:B:1063:ASP:O	1:B:1064:VAL:C	2.63	0.41
1:B:1647:ASP:C	1:B:1649:ALA:N	2.75	0.41
1:C:821:LEU:HD23	1:C:821:LEU:HA	1.90	0.41
1:C:921:GLU:HG3	1:C:922:ILE:N	2.35	0.41
1:C:1288:ASP:O	1:C:1291:TYR:HB3	2.20	0.41
1:D:14:LEU:HD13	1:D:18:LEU:HG	2.03	0.41
1:D:408:GLN:HE22	1:D:1609:SER:N	2.18	0.41
1:D:1038:HIS:CE1	1:D:1042:LEU:HG	2.54	0.41
1:D:1344:THR:HG22	1:D:1599:MET:HE3	2.02	0.41
1:E:874:GLN:HE21	1:E:874:GLN:HB3	1.66	0.41
1:E:1351:PHE:HD1	1:E:1352:MET:N	2.19	0.41
1:F:43:ARG:NH1	2:L:1687:GLN:HE21	2.18	0.41
1:F:1501:ALA:O	1:F:1504:ARG:HB2	2.19	0.41
2:G:174:GLY:H	2:G:517:GLY:CA	2.28	0.41
2:G:332:ALA:HB3	2:G:335:THR:OG1	2.21	0.41
2:G:350:MET:HG3	2:G:435:ILE:CB	2.50	0.41
2:G:737:PHE:O	2:G:773:ASN:HB3	2.21	0.41
2:H:22:ARG:HD2	2:H:42:HIS:CB	2.50	0.41
2:H:316:PHE:CD2	2:H:316:PHE:C	2.98	0.41
2:H:613:VAL:H	2:H:614:PRO:HD3	1.84	0.41
2:H:615:TRP:HA	2:H:618:VAL:CG1	2.49	0.41
2:H:665:VAL:C	2:H:667:PRO:HD3	2.45	0.41
2:H:737:PHE:O	2:H:773:ASN:HB3	2.20	0.41
2:H:988:GLU:HA	2:H:989:PRO:HD3	1.72	0.41
2:H:1308:VAL:CG1	2:H:1398:THR:HG23	2.51	0.41
2:H:1362:PHE:O	2:H:1363:PRO:O	2.38	0.41
2:H:1491:ARG:C	2:H:1492:LEU:HD23	2.45	0.41
2:H:1690:THR:HG22	2:H:1691:ALA:N	2.35	0.41
2:I:27:THR:HG22	2:I:32:GLU:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:544:ALA:O	2:I:554:TYR:HB3	2.20	0.41
2:I:604:MET:HG3	2:I:627:HIS:O	2.20	0.41
2:I:793:THR:O	2:I:806:PRO:HA	2.20	0.41
2:I:912:LYS:NZ	2:I:1044:LYS:O	2.53	0.41
2:I:914:TRP:CH2	2:I:1033:ALA:HA	2.55	0.41
2:I:1123:ALA:HB1	2:I:1126:GLU:H	1.86	0.41
2:I:1244:LEU:O	2:I:1260:THR:HA	2.20	0.41
2:I:1349:ALA:HB2	2:I:1427:MET:SD	2.60	0.41
2:J:1194:ARG:HD2	2:J:1598:SER:O	2.20	0.41
2:J:1299:VAL:HA	2:J:1300:PRO:HD3	1.83	0.41
2:J:1380:TYR:CD2	2:J:1380:TYR:N	2.88	0.41
2:J:1406:ASN:HB3	2:J:1411:LYS:HG3	2.02	0.41
2:K:300:THR:O	2:K:304:PHE:HB2	2.20	0.41
2:K:727:VAL:HA	2:K:730:ILE:HG12	2.03	0.41
2:K:779:GLY:HA3	2:K:811:MET:HE3	2.02	0.41
2:K:1351:VAL:CG2	2:K:1584:SER:HA	2.45	0.41
2:K:1456:LEU:HD11	2:K:1543:TYR:HE2	1.85	0.41
2:K:1808:PRO:O	2:K:1812:LEU:HD23	2.20	0.41
2:K:2063:GLY:O	2:K:2065:PRO:HD3	2.20	0.41
2:L:796:TRP:HZ2	2:L:805:MET:HE2	1.82	0.41
2:L:979:LEU:N	2:L:979:LEU:CD1	2.83	0.41
2:L:1318:ALA:HB2	2:L:1391:VAL:HG11	2.02	0.41
2:L:1606:ILE:HG22	2:L:1607:THR:O	2.20	0.41
2:L:1868:GLN:O	2:L:1873:ARG:NH2	2.53	0.41
1:A:399:TYR:OH	1:A:692:THR:HG23	2.20	0.41
1:A:872:SER:OG	1:A:874:GLN:HG3	2.20	0.41
1:A:983:GLN:O	1:A:987:MET:HG3	2.20	0.41
1:A:1068:TYR:O	1:A:1069:GLU:C	2.64	0.41
1:A:1154:LEU:HA	1:A:1154:LEU:HD23	1.75	0.41
1:B:486:VAL:CG1	1:B:647:GLY:HA3	2.44	0.41
1:B:771:LEU:HD23	1:E:767:HIS:HE1	1.85	0.41
1:B:1055:THR:OG1	1:B:1057:GLU:HG2	2.19	0.41
1:B:1250:LEU:HD22	1:D:1317:GLU:HB3	2.03	0.41
1:B:1405:ARG:HB2	1:D:1699:PRO:HG3	2.02	0.41
1:B:1414:PRO:HG2	1:D:1473:HIS:CD2	2.55	0.41
1:B:1601:GLN:HB2	1:B:1602:PHE:CD2	2.56	0.41
1:C:434:ILE:CD1	1:C:490:VAL:HG21	2.48	0.41
1:C:829:TYR:OH	1:C:896:PRO:HD2	2.20	0.41
1:C:859:VAL:HG13	1:C:918:LEU:HD13	2.01	0.41
1:C:1560:TYR:CE2	1:C:1589:ASN:HA	2.55	0.41
1:C:1651:TYR:CE2	1:C:1655:CYS:SG	3.14	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:403:TRP:CZ3	1:D:404:ASN:HB2	2.55	0.41
1:D:450:TYR:CE1	1:D:1551:ASN:HB2	2.55	0.41
1:D:1170:ALA:HB3	1:D:1188:LEU:HD13	2.01	0.41
1:D:1224:SER:HB3	1:D:1307:PHE:CE2	2.56	0.41
1:D:1343:PRO:HA	1:D:1526:SER:HA	2.02	0.41
1:F:999:LEU:HD22	1:F:999:LEU:HA	1.82	0.41
1:F:1371:MET:O	1:F:1661:ARG:NH1	2.54	0.41
2:G:325:ALA:O	2:G:327:PRO:HD3	2.20	0.41
2:G:663:ILE:HD12	2:G:663:ILE:N	2.35	0.41
2:G:1019:LEU:HA	2:G:1022:ARG:CD	2.50	0.41
2:G:1074:LYS:HE3	2:G:1075:TYR:CE1	2.55	0.41
2:G:1199:THR:HG22	2:G:1200:ARG:N	2.35	0.41
2:G:1338:ARG:NH2	2:I:327:PRO:CD	2.80	0.41
2:G:1873:ARG:HB3	2:G:1879:SER:HA	2.03	0.41
2:G:2057:GLU:HA	2:G:2060:ARG:HH12	1.85	0.41
2:H:197:VAL:O	2:H:200:LEU:HD23	2.21	0.41
2:H:342:ASN:CB	2:H:406:ARG:NH2	2.83	0.41
2:H:451:ILE:HD12	2:H:491:VAL:HG13	2.01	0.41
2:H:1236:LEU:O	2:H:1237:VAL:HG23	2.19	0.41
2:I:590:VAL:CG2	2:I:1091:HIS:CD2	3.03	0.41
2:I:747:ARG:HD2	2:I:780:SER:OG	2.20	0.41
2:I:762:LEU:HD11	2:I:800:PHE:CB	2.51	0.41
2:I:791:TYR:HA	2:I:796:TRP:HD1	1.85	0.41
2:I:960:GLY:O	2:I:963:ILE:HB	2.20	0.41
2:I:1472:TRP:CD2	2:I:1540:VAL:HG22	2.56	0.41
2:J:120:HIS:NE2	2:J:137:VAL:HG11	2.36	0.41
2:J:138:ARG:CB	2:J:192:THR:HA	2.50	0.41
2:J:215:TRP:HE3	2:J:215:TRP:N	2.18	0.41
2:J:253:ILE:HB	2:J:287:GLN:NE2	2.36	0.41
2:J:396:ILE:H	2:J:396:ILE:CD1	2.18	0.41
2:J:527:LEU:O	2:J:530:ARG:HB2	2.20	0.41
2:J:725:GLN:HE21	2:J:767:ARG:HH11	1.69	0.41
2:J:769:ARG:HD3	2:J:769:ARG:HA	1.79	0.41
2:J:865:ILE:HG22	2:J:867:LYS:HG3	2.02	0.41
2:J:989:PRO:C	2:J:991:PRO:HD2	2.45	0.41
2:J:1309:PHE:CD1	2:J:1309:PHE:N	2.88	0.41
2:J:1375:HIS:ND1	2:J:1610:MET:HG2	2.35	0.41
2:J:1938:THR:HG22	2:J:1977:ARG:HA	2.01	0.41
2:J:2070:ILE:O	2:J:2070:ILE:CG2	2.68	0.41
2:K:600:VAL:HG22	2:K:601:PRO:CD	2.50	0.41
2:K:600:VAL:CG2	2:K:601:PRO:HD2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:641:MET:CE	2:K:676:LEU:HD12	2.49	0.41
2:K:750:GLY:O	2:K:865:ILE:HA	2.21	0.41
2:K:752:HIS:NE2	2:K:856:THR:HG22	2.33	0.41
2:K:757:PHE:HE2	2:K:779:GLY:O	2.02	0.41
2:K:883:ILE:HG22	2:K:884:PHE:N	2.36	0.41
2:K:1156:ASP:HB2	2:K:1159:SER:N	2.21	0.41
2:K:1380:TYR:CD2	2:K:1380:TYR:N	2.89	0.41
2:K:1588:ASN:HA	2:K:1589:PRO:HD3	1.88	0.41
2:L:276:LEU:O	2:L:276:LEU:HD23	2.21	0.41
2:L:685:VAL:HA	2:L:686:PRO:HD3	1.67	0.41
2:L:858:LEU:HD23	2:L:858:LEU:HA	1.85	0.41
2:L:882:LYS:HB3	2:L:898:ARG:NH1	2.36	0.41
2:L:914:TRP:C	2:L:916:GLY:H	2.28	0.41
1:A:1082:GLU:HA	1:A:1083:PRO:HD3	1.89	0.41
1:A:1177:GLU:O	1:A:1180:ILE:HB	2.21	0.41
1:B:21:GLN:O	2:H:2006:HIS:HD2	2.02	0.41
1:B:46:GLU:HB3	1:B:80:CYS:HA	2.02	0.41
1:B:405:TRP:CE3	1:B:405:TRP:HA	2.55	0.41
1:B:1154:LEU:HD23	1:B:1154:LEU:HA	1.77	0.41
1:B:1491:ASN:HD22	1:B:1491:ASN:N	2.18	0.41
1:C:40:ARG:HH21	1:C:72:THR:HG22	1.85	0.41
1:C:569:LEU:HD22	1:D:544:ASP:HB3	2.01	0.41
1:C:1426:GLU:HA	1:C:1429:ARG:HG3	2.02	0.41
1:C:1640:LYS:CG	1:C:1641:TYR:CD1	3.04	0.41
1:C:1670:HIS:ND1	2:I:1009:ASN:ND2	2.69	0.41
1:D:405:TRP:HA	1:D:405:TRP:CE3	2.56	0.41
1:D:413:MET:O	1:D:416:ASP:HB2	2.21	0.41
1:D:551:LEU:C	1:D:551:LEU:CD2	2.93	0.41
1:D:683:THR:HG21	1:D:725:LEU:HD11	2.01	0.41
1:D:1393:VAL:N	1:D:1394:PRO:CD	2.83	0.41
1:D:1554:LEU:HD23	1:D:1606:VAL:HG12	2.01	0.41
1:E:406:ALA:HB2	1:E:439:ARG:HD2	2.01	0.41
1:E:799:LEU:HD12	1:E:821:LEU:HB3	2.03	0.41
1:E:900:ASP:C	1:E:901:LEU:HD23	2.45	0.41
1:E:943:VAL:HG12	1:E:944:ASN:OD1	2.19	0.41
1:E:1212:TYR:CD2	1:E:1371:MET:HG2	2.55	0.41
1:E:1213:VAL:HG22	1:E:1300:ARG:HE	1.86	0.41
1:F:454:HIS:CD2	1:F:454:HIS:N	2.88	0.41
1:F:635:ILE:HG13	1:F:635:ILE:H	1.58	0.41
1:F:1086:PHE:CZ	1:F:1310:PHE:HD2	2.38	0.41
2:G:350:MET:HE2	2:G:435:ILE:CD1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1086:ILE:O	2:G:1090:ILE:HG13	2.20	0.41
2:G:1376:LEU:O	2:G:1639:MET:HG2	2.20	0.41
2:G:1884:CYS:CB	2:G:1936:LEU:HD12	2.49	0.41
2:G:1953:ILE:O	2:G:1957:MET:HG2	2.20	0.41
2:G:2070:ILE:O	2:G:2070:ILE:CG2	2.67	0.41
2:H:821:GLU:H	2:H:821:GLU:HG2	1.44	0.41
2:H:952:ASP:OD1	2:H:953:PRO:HD2	2.20	0.41
2:H:1017:LEU:HD21	2:H:1032:PRO:HB2	2.00	0.41
2:H:1032:PRO:O	2:H:1033:ALA:HB2	2.21	0.41
2:H:1220:ARG:HA	2:H:1229:VAL:O	2.20	0.41
2:H:1430:THR:HG22	2:H:1431:SER:N	2.36	0.41
2:H:1460:THR:HB	2:H:1463:ASP:OD1	2.21	0.41
2:H:1489:VAL:HB	2:H:1514:LEU:HB2	2.03	0.41
2:H:1974:GLN:HG3	2:H:1977:ARG:HE	1.85	0.41
2:H:2005:PHE:HA	2:H:2010:LEU:CD1	2.31	0.41
2:I:161:ALA:HB1	2:I:166:ASN:HD22	1.85	0.41
2:I:347:PRO:HA	2:I:432:PHE:CE1	2.54	0.41
2:I:350:MET:CE	2:I:435:ILE:HD12	2.43	0.41
2:I:870:THR:HG21	2:I:1064:THR:O	2.20	0.41
2:I:1067:LEU:O	2:I:1068:GLN:HG2	2.21	0.41
2:I:1286:LYS:HZ1	2:I:1367:ASP:CB	2.34	0.41
2:I:1580:TYR:O	2:I:1581:ALA:C	2.63	0.41
2:I:1873:ARG:NH1	2:I:2002:ASP:CB	2.84	0.41
2:J:161:ALA:HB1	2:J:166:ASN:HD22	1.85	0.41
2:J:296:ALA:O	2:J:466:VAL:HG23	2.21	0.41
2:J:914:TRP:CH2	2:J:1033:ALA:HA	2.55	0.41
2:J:915:PHE:O	2:J:915:PHE:CG	2.74	0.41
2:J:1116:PHE:O	2:J:1270:GLY:HA3	2.20	0.41
2:J:1259:LEU:HD11	2:J:1285:ILE:HG12	2.01	0.41
2:K:268:LEU:HD12	2:K:275:LEU:HD12	2.03	0.41
2:K:1220:ARG:HA	2:K:1229:VAL:O	2.20	0.41
2:K:1259:LEU:HD11	2:K:1285:ILE:HG12	2.03	0.41
2:K:1266:HIS:CE1	2:K:1275:ARG:CD	2.95	0.41
2:K:1353:GLY:CA	2:K:1397:THR:HG21	2.48	0.41
2:L:22:ARG:CD	2:L:39:THR:HA	2.51	0.41
2:L:612:THR:HG21	2:L:629:GLU:O	2.21	0.41
2:L:652:ILE:CG2	2:L:656:ARG:HB2	2.51	0.41
2:L:914:TRP:CZ3	2:L:1033:ALA:HA	2.55	0.41
2:L:990:TYR:N	2:L:991:PRO:CD	2.83	0.41
2:L:1335:PHE:N	2:L:1335:PHE:HD1	2.19	0.41
2:L:1558:GLU:O	2:L:1560:PRO:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1901:GLN:HB3	2:L:1905:GLU:OE2	2.20	0.41
2:L:2063:GLY:O	2:L:2065:PRO:HD3	2.21	0.41
1:A:350:ASP:HB3	1:A:353:ALA:HB2	2.01	0.41
1:A:623:PHE:N	1:A:623:PHE:HD2	2.16	0.41
1:A:1157:ASP:HB3	1:A:1326:ASN:OD1	2.21	0.41
1:A:1249:ILE:HD12	1:A:1249:ILE:C	2.45	0.41
1:A:1295:MET:HB3	1:A:1295:MET:HE3	1.70	0.41
1:A:1419:LYS:O	1:A:1422:ARG:HB2	2.20	0.41
1:A:1620:PHE:CD1	1:A:1620:PHE:C	2.99	0.41
1:B:447:PHE:HE1	1:B:451:HIS:HE2	1.68	0.41
1:B:543:ASN:O	1:B:546:ARG:HB2	2.21	0.41
1:B:827:ARG:NE	1:E:816:GLU:OE2	2.53	0.41
1:B:983:GLN:O	1:B:987:MET:HG3	2.20	0.41
1:B:1142:LEU:H	1:B:1142:LEU:CD1	2.29	0.41
1:B:1372:GLY:O	1:B:1661:ARG:HD2	2.20	0.41
1:B:1473:HIS:HD2	1:D:1499:ARG:NH2	2.18	0.41
1:C:46:GLU:HB3	1:C:80:CYS:HA	2.02	0.41
1:C:504:GLY:HA2	1:C:929:ARG:HB3	2.03	0.41
1:C:693:GLU:O	1:C:694:TYR:C	2.64	0.41
1:C:962:ASN:HB3	2:I:969:ARG:CD	2.51	0.41
1:C:1031:MET:HE2	1:C:1031:MET:HB3	1.87	0.41
1:C:1149:LEU:HD23	1:C:1149:LEU:HA	1.73	0.41
1:C:1364:THR:HG22	1:C:1366:GLN:N	2.32	0.41
1:D:29:ILE:HG22	1:D:30:GLU:N	2.35	0.41
1:D:404:ASN:HD21	1:D:1607:TYR:H	1.67	0.41
1:D:628:TYR:OH	1:D:630:LYS:HE2	2.21	0.41
1:D:756:ILE:HA	1:D:759:ILE:HD11	2.03	0.41
1:D:902:ASN:O	1:D:904:GLY:N	2.46	0.41
1:D:1363:MET:SD	1:D:1367:LEU:HD13	2.60	0.41
1:D:1558:GLN:HE22	1:D:1572:TRP:C	2.29	0.41
1:E:648:LEU:HD12	1:E:649:THR:H	1.86	0.41
1:E:1288:ASP:O	1:E:1291:TYR:HB3	2.19	0.41
1:E:1371:MET:O	1:E:1661:ARG:NH1	2.54	0.41
1:E:1425:LEU:HD21	1:E:1429:ARG:NH2	2.20	0.41
1:F:371:GLN:O	1:F:374:LEU:HB3	2.21	0.41
1:F:449:GLN:O	1:F:452:ILE:HG22	2.20	0.41
1:F:837:LEU:HD12	1:F:837:LEU:HA	1.86	0.41
1:F:1210:TYR:HA	1:F:1213:VAL:O	2.21	0.41
2:G:376:ARG:HA	2:G:443:TYR:OH	2.20	0.41
2:G:787:ASP:O	2:G:790:PRO:HD2	2.20	0.41
2:G:1067:LEU:O	2:G:1068:GLN:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1308:VAL:CG1	2:G:1398:THR:HG23	2.51	0.41
2:G:1957:MET:HE1	2:G:1962:LEU:HD22	2.02	0.41
2:G:1975:GLU:O	2:G:1979:GLN:HG3	2.20	0.41
2:G:2009:PHE:C	2:G:2011:ARG:H	2.28	0.41
2:H:28:HIS:O	2:H:31:LEU:HD12	2.21	0.41
2:H:38:PRO:CD	2:H:104:LEU:HD11	2.44	0.41
2:H:253:ILE:HB	2:H:287:GLN:NE2	2.35	0.41
2:H:306:THR:O	2:H:310:ARG:HG3	2.20	0.41
2:H:350:MET:CE	2:H:435:ILE:HD12	2.44	0.41
2:H:757:PHE:HE2	2:H:779:GLY:O	2.04	0.41
2:H:779:GLY:HA3	2:H:811:MET:HB3	2.03	0.41
2:H:798:THR:HA	2:H:802:TYR:O	2.21	0.41
2:H:1084:LYS:O	2:H:1088:ASP:HB2	2.20	0.41
2:H:1108:GLU:H	2:H:1108:GLU:HG3	1.59	0.41
2:H:1483:LEU:CD2	2:H:1525:VAL:HG11	2.49	0.41
2:H:1741:ASN:HD21	2:H:1798:GLY:HA3	1.83	0.41
2:H:2013:GLY:C	2:H:2016:PRO:HD2	2.46	0.41
2:I:379:GLY:O	2:I:391:VAL:HG13	2.21	0.41
2:I:604:MET:HG3	2:I:627:HIS:CD2	2.55	0.41
2:I:1028:VAL:HG13	2:I:1030:PHE:H	1.86	0.41
2:I:1346:MET:HE2	2:I:1346:MET:HB3	1.79	0.41
2:I:1835:GLY:HA3	2:I:1840:GLU:N	2.35	0.41
2:I:1883:MET:HE2	2:I:1883:MET:HB3	1.85	0.41
2:I:2055:PHE:HB2	2:I:2071:LEU:HD21	2.03	0.41
2:J:27:THR:HG22	2:J:32:GLU:HG2	2.02	0.41
2:J:58:GLN:HA	2:J:59:PRO:HD3	1.94	0.41
2:J:196:PHE:HD2	2:J:266:LYS:CB	2.32	0.41
2:J:444:LEU:HD23	2:J:444:LEU:HA	1.71	0.41
2:J:1246:LEU:O	2:J:1258:PRO:HA	2.20	0.41
2:J:1382:MET:HG2	2:J:1427:MET:HE2	2.02	0.41
2:J:1403:ALA:HB2	2:J:1447:GLN:HA	2.02	0.41
2:J:1456:LEU:HD11	2:J:1543:TYR:HE2	1.84	0.41
2:K:80:ILE:HG12	2:K:105:ILE:HG22	2.03	0.41
2:K:250:PHE:CZ	2:K:439:PHE:CZ	3.08	0.41
2:K:613:VAL:N	2:K:614:PRO:HD3	2.35	0.41
2:K:692:ILE:HD13	2:K:697:PRO:HG2	2.03	0.41
2:K:718:PRO:HG3	2:K:727:VAL:CG2	2.49	0.41
2:K:741:LEU:O	2:K:741:LEU:CG	2.68	0.41
2:K:958:LEU:HD13	2:K:1025:GLN:OE1	2.20	0.41
2:L:172:ILE:HG23	2:L:515:ASP:HA	2.01	0.41
2:L:381:SER:C	2:L:382:LEU:HD23	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:829:LYS:O	2:L:832:ILE:HB	2.20	0.41
2:L:942:MET:O	2:L:951:ILE:HG13	2.20	0.41
2:L:1278:MET:O	2:L:1279:GLU:C	2.63	0.41
2:L:1500:ASN:C	2:L:1502:ASN:N	2.78	0.41
2:L:1866:THR:CA	2:L:1869:VAL:HG22	2.50	0.41
2:L:2013:GLY:C	2:L:2016:PRO:HD2	2.45	0.41
1:A:41:THR:HG22	2:G:1689:VAL:HG12	2.01	0.41
1:A:612:ILE:HG23	1:A:613:PRO:HD2	2.02	0.41
1:A:1501:ALA:HA	1:A:1502:PRO:HD3	1.96	0.41
1:B:372:LEU:CD1	1:E:371:GLN:HG2	2.45	0.41
1:B:486:VAL:HG22	1:B:648:LEU:C	2.46	0.41
1:B:967:PHE:HB3	1:B:968:PRO:CD	2.50	0.41
1:B:1713:PHE:HA	1:B:1714:PRO:HD3	1.89	0.41
1:C:22:PHE:CE1	2:I:1867:MET:HG2	2.56	0.41
1:C:426:ASP:C	1:C:428:GLU:N	2.78	0.41
1:C:465:LEU:O	1:C:465:LEU:HD12	2.20	0.41
1:C:575:ARG:HD3	1:D:534:GLN:O	2.21	0.41
1:C:585:MET:O	1:C:586:GLN:C	2.64	0.41
1:C:768:ARG:NH1	1:D:764:GLU:OE1	2.46	0.41
1:C:948:HIS:O	1:C:952:TYR:CD2	2.74	0.41
1:C:1258:MET:O	1:C:1259:ALA:C	2.63	0.41
1:D:391:PHE:HA	1:D:713:PRO:O	2.19	0.41
1:D:486:VAL:HG22	1:D:648:LEU:C	2.46	0.41
1:D:726:VAL:HG21	1:D:780:ALA:CB	2.51	0.41
1:E:418:ILE:HA	1:E:462:THR:HB	2.03	0.41
1:E:1622:VAL:HG13	1:E:1622:VAL:O	2.21	0.41
1:E:1662:GLN:HE21	1:E:1662:GLN:HB3	1.70	0.41
1:F:31:THR:HG23	2:L:2040:ILE:CG2	2.51	0.41
1:F:538:ARG:HD2	1:F:542:GLN:NE2	2.36	0.41
2:G:113:PHE:N	2:G:113:PHE:HD1	2.19	0.41
2:G:489:GLU:HG2	2:G:492:ARG:NH1	2.35	0.41
2:G:621:THR:OG1	2:G:1083:ILE:HD13	2.21	0.41
2:G:834:ASP:O	2:G:836:PRO:HD3	2.20	0.41
2:G:865:ILE:HG22	2:G:867:LYS:HG3	2.02	0.41
2:G:884:PHE:CE2	2:G:1039:GLU:HA	2.51	0.41
2:G:1325:VAL:HG13	2:G:1330:ASN:O	2.21	0.41
2:G:1904:VAL:HG22	2:G:1939:LEU:CD2	2.49	0.41
2:H:120:HIS:HD2	2:H:137:VAL:HG21	1.85	0.41
2:H:270:ARG:HG3	2:H:274:GLU:OE1	2.21	0.41
2:H:489:GLU:HG2	2:H:492:ARG:CZ	2.50	0.41
2:H:617:PHE:HE2	2:H:628:ILE:HD11	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1309:PHE:N	2:H:1309:PHE:CD1	2.87	0.41
2:H:1578:GLU:O	2:H:1582:ARG:HD2	2.21	0.41
2:H:1847:LEU:HD12	2:H:1847:LEU:N	2.36	0.41
2:I:549:ASN:HD22	2:I:549:ASN:C	2.28	0.41
2:I:727:VAL:HA	2:I:730:ILE:HG12	2.03	0.41
2:I:868:LEU:O	2:I:870:THR:HG23	2.20	0.41
2:I:872:GLY:HA2	2:I:909:ASP:O	2.21	0.41
2:I:1239:ASP:CG	2:I:1240:ASN:N	2.78	0.41
2:I:1346:MET:HE3	2:I:1617:ARG:HH21	1.84	0.41
2:I:1743:LYS:C	2:I:1799:LEU:HD13	2.45	0.41
2:I:1918:VAL:CG1	2:I:2006:HIS:HB2	2.40	0.41
2:J:67:ASP:CA	2:J:132:LYS:HE2	2.48	0.41
2:J:117:ASN:HA	2:J:561:ARG:CD	2.50	0.41
2:J:196:PHE:O	2:J:262:MET:HE1	2.21	0.41
2:J:1500:ASN:C	2:J:1502:ASN:N	2.78	0.41
2:J:1723:ASP:O	2:J:1724:LYS:C	2.63	0.41
2:K:26:LEU:HD22	2:K:53:LEU:HD21	2.03	0.41
2:K:342:ASN:HD22	2:K:342:ASN:N	2.18	0.41
2:K:357:THR:HG22	2:K:359:SER:H	1.85	0.41
2:K:396:ILE:H	2:K:396:ILE:CD1	2.29	0.41
2:K:616:ASP:OD1	2:K:616:ASP:N	2.52	0.41
2:K:867:LYS:NZ	2:K:1065:CYS:SG	2.85	0.41
2:K:942:MET:CE	2:K:955:LEU:HD13	2.44	0.41
2:K:1211:ASP:HA	2:K:1212:PRO:HD2	1.83	0.41
2:K:1764:MET:HG3	2:K:1781:PHE:CE1	2.55	0.41
2:K:1766:PHE:CZ	2:K:1869:VAL:HB	2.55	0.41
2:K:1769:VAL:HG22	2:K:1775:ILE:CA	2.38	0.41
2:L:276:LEU:HD11	2:L:296:ALA:HA	2.02	0.41
2:L:604:MET:HG3	2:L:627:HIS:CD2	2.56	0.41
2:L:664:TYR:CD1	2:L:670:MET:HE1	2.56	0.41
2:L:1181:PHE:CD1	2:L:1191:PRO:HD2	2.56	0.41
2:L:1290:TYR:CG	2:L:1299:VAL:CG1	2.91	0.41
2:L:1424:LYS:HA	2:L:1425:PRO:HD3	1.84	0.41
1:A:1674:ILE:HD12	2:G:1010:ALA:HB3	2.03	0.41
1:A:1698:ASN:C	1:A:1700:GLN:H	2.28	0.41
1:B:569:LEU:HD13	1:E:548:VAL:CG2	2.51	0.41
1:B:1405:ARG:C	1:D:1699:PRO:HG3	2.46	0.41
1:C:408:GLN:NE2	1:C:1609:SER:H	2.16	0.41
1:C:802:SER:HA	1:C:803:PRO:HD3	1.89	0.41
1:C:1063:ASP:O	1:C:1064:VAL:C	2.63	0.41
1:C:1420:TYR:O	1:C:1424:GLN:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:538:ARG:O	1:D:579:MET:HE1	2.20	0.41
1:D:983:GLN:O	1:D:987:MET:HG3	2.20	0.41
1:D:1094:LYS:HE2	1:D:1312:GLU:HG2	2.03	0.41
1:D:1393:VAL:N	1:D:1394:PRO:HD3	2.35	0.41
1:E:449:GLN:HG3	1:E:474:ILE:HD13	2.02	0.41
1:E:454:HIS:CD2	1:E:454:HIS:N	2.88	0.41
1:E:948:HIS:O	1:E:952:TYR:CD2	2.74	0.41
1:E:1213:VAL:CG1	1:E:1214:HIS:N	2.81	0.41
1:E:1275:THR:HA	1:E:1276:PRO:HD3	1.73	0.41
1:F:14:LEU:HD21	2:L:1844:LEU:HD21	2.01	0.41
1:F:526:MET:CE	1:F:614:PHE:HB3	2.50	0.41
1:F:1212:TYR:CD2	1:F:1371:MET:HG2	2.55	0.41
1:F:1546:GLY:O	1:F:1547:ARG:C	2.64	0.41
2:G:26:LEU:HD23	2:G:26:LEU:HA	1.83	0.41
2:G:306:THR:O	2:G:310:ARG:HG3	2.20	0.41
2:G:690:LEU:HD22	2:G:691:THR:N	2.36	0.41
2:G:914:TRP:CH2	2:G:1033:ALA:HA	2.56	0.41
2:G:1127:GLU:HA	2:G:1128:PRO:HD3	1.74	0.41
2:G:1472:TRP:CD2	2:G:1540:VAL:HG22	2.55	0.41
2:G:1944:ASN:HA	2:G:1993:PHE:CE1	2.55	0.41
2:H:276:LEU:O	2:H:276:LEU:HD23	2.21	0.41
2:H:281:GLY:HA3	2:H:470:TYR:CE1	2.51	0.41
2:H:653:PRO:O	2:H:654:PRO:C	2.64	0.41
2:H:890:LYS:HE3	2:H:890:LYS:HB2	1.85	0.41
2:H:960:GLY:O	2:H:963:ILE:HB	2.21	0.41
2:H:1299:VAL:HG23	2:H:1301:PHE:CD2	2.55	0.41
2:H:1515:LEU:HB3	2:H:1525:VAL:HG21	2.02	0.41
2:H:1722:ALA:CB	2:H:1812:LEU:HD11	2.51	0.41
2:H:1896:THR:HG22	2:H:1898:GLN:N	2.23	0.41
2:H:1901:GLN:HB3	2:H:1905:GLU:OE2	2.20	0.41
2:I:167:VAL:HG23	2:I:169:ILE:HG13	2.02	0.41
2:I:609:THR:CB	2:I:610:PRO:HD3	2.51	0.41
2:I:612:THR:CG2	2:I:629:GLU:O	2.69	0.41
2:I:1123:ALA:CB	2:I:1126:GLU:HG3	2.46	0.41
2:I:1269:ALA:HB1	2:I:1271:TYR:CE2	2.56	0.41
2:I:1301:PHE:CD1	2:I:1364:ARG:CZ	3.04	0.41
2:I:1871:VAL:HG12	2:I:1872:GLU:N	2.35	0.41
2:J:208:LEU:HD23	2:J:211:LEU:HD12	2.02	0.41
2:J:376:ARG:HA	2:J:443:TYR:OH	2.21	0.41
2:J:917:ARG:NH1	2:J:1057:TYR:OH	2.54	0.41
2:J:960:GLY:O	2:J:963:ILE:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1115:TYR:OH	2:J:1173:HIS:CD2	2.69	0.41
2:J:1211:ASP:HA	2:J:1212:PRO:HD2	1.84	0.41
2:J:1299:VAL:HG23	2:J:1301:PHE:CD2	2.55	0.41
2:J:1346:MET:HE2	2:J:1346:MET:HB3	1.74	0.41
2:J:1349:ALA:HB2	2:J:1427:MET:SD	2.60	0.41
2:J:1374:VAL:CG2	2:J:1436:ARG:NE	2.84	0.41
2:J:1496:VAL:HG23	2:J:1507:VAL:HG12	2.02	0.41
2:K:859:SER:HB3	2:K:863:GLU:HG3	2.01	0.41
2:K:1084:LYS:HE3	2:K:1088:ASP:OD2	2.21	0.41
2:K:1317:ASN:OD1	2:K:1319:GLN:HB3	2.21	0.41
2:K:1624:ALA:CB	2:K:1665:ILE:HD13	2.51	0.41
2:K:2057:GLU:HA	2:K:2060:ARG:HH12	1.84	0.41
2:L:785:SER:O	2:L:789:TYR:HB2	2.20	0.41
2:L:1032:PRO:O	2:L:1033:ALA:HB2	2.20	0.41
2:L:1382:MET:HB2	2:L:1633:ARG:HH11	1.86	0.41
2:L:1807:GLN:NE2	2:L:1867:MET:HE2	2.35	0.41
2:L:1847:LEU:HD12	2:L:1847:LEU:N	2.36	0.41
2:L:2064:SER:OG	2:L:2067:ILE:HB	2.19	0.41
1:A:72:THR:HG22	1:A:72:THR:O	2.20	0.41
1:A:407:ARG:CZ	1:A:1606:VAL:HG23	2.50	0.41
1:A:628:TYR:OH	1:A:630:LYS:HE2	2.21	0.41
1:A:628:TYR:OH	1:A:630:LYS:HG2	2.20	0.41
1:A:683:THR:HG21	1:A:725:LEU:HD11	2.02	0.41
1:A:846:TRP:CH2	1:A:863:VAL:HG21	2.56	0.41
1:A:991:ASP:HA	1:A:1364:THR:CG2	2.50	0.41
1:A:1017:TYR:CD1	1:A:1017:TYR:N	2.89	0.41
1:A:1202:GLY:HA3	1:A:1661:ARG:HD3	2.02	0.41
1:B:333:ARG:O	1:B:334:ALA:C	2.63	0.41
1:B:408:GLN:HE22	1:B:1609:SER:N	2.19	0.41
1:B:413:MET:O	1:B:416:ASP:HB2	2.21	0.41
1:B:449:GLN:O	1:B:452:ILE:HG22	2.20	0.41
1:B:527:ALA:HA	1:B:613:PRO:HB3	2.03	0.41
1:B:622:GLU:HB2	1:B:623:PHE:CD2	2.56	0.41
1:B:663:GLY:O	1:B:852:LEU:HD11	2.21	0.41
1:B:799:LEU:HD12	1:B:821:LEU:HB3	2.03	0.41
1:B:1275:THR:HA	1:B:1276:PRO:HD3	1.73	0.41
1:B:1425:LEU:HD21	1:B:1429:ARG:NH2	2.17	0.41
1:B:1554:LEU:HB3	1:B:1586:VAL:HG11	2.03	0.41
1:B:1604:TYR:CD2	1:B:1604:TYR:N	2.89	0.41
1:B:1662:GLN:HE21	1:B:1662:GLN:HB3	1.69	0.41
1:C:449:GLN:O	1:C:452:ILE:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:449:GLN:HG3	1:C:474:ILE:HD13	2.02	0.41
1:C:759:ILE:N	1:C:759:ILE:HD12	2.36	0.41
1:C:874:GLN:HE21	1:C:874:GLN:HB3	1.67	0.41
1:C:967:PHE:CD2	1:C:1374:PRO:HG3	2.55	0.41
1:C:967:PHE:HB3	1:C:968:PRO:CD	2.51	0.41
1:C:1045:LYS:HA	1:C:1046:PRO:HD3	1.90	0.41
1:C:1082:GLU:HA	1:C:1083:PRO:HD3	1.85	0.41
1:C:1090:ASP:C	1:C:1092:ASN:N	2.77	0.41
1:C:1407:LYS:HB2	1:F:1699:PRO:HD2	2.03	0.41
1:C:1638:HIS:HA	1:C:1639:PRO:HD3	1.98	0.41
1:C:1685:ALA:HB1	1:C:1686:PRO:HD2	2.03	0.41
1:D:56:MET:HE3	1:D:56:MET:HB2	1.91	0.41
1:D:449:GLN:O	1:D:450:TYR:C	2.63	0.41
1:D:498:THR:HG22	1:D:508:TYR:CD1	2.52	0.41
1:D:828:TRP:NE1	1:D:838:THR:HA	2.30	0.41
1:D:829:TYR:OH	1:D:896:PRO:HD2	2.21	0.41
1:D:1000:ALA:HB3	1:D:1197:ALA:HB2	2.03	0.41
1:D:1083:PRO:HB3	1:D:1089:TYR:O	2.20	0.41
1:D:1258:MET:O	1:D:1259:ALA:C	2.63	0.41
1:D:1342:ARG:HB3	1:D:1345:SER:HB2	2.03	0.41
1:D:1604:TYR:CD2	1:D:1604:TYR:N	2.89	0.41
1:D:1620:PHE:CD1	1:D:1620:PHE:C	2.98	0.41
1:D:1640:LYS:CG	1:D:1641:TYR:CD1	3.04	0.41
1:E:407:ARG:HB3	1:E:447:PHE:CE2	2.56	0.41
1:E:498:THR:HG21	1:E:858:LEU:HA	2.02	0.41
1:E:958:GLU:HA	1:E:959:PRO:HD3	1.92	0.41
1:E:1199:LEU:HD23	1:E:1199:LEU:O	2.21	0.41
1:E:1444:GLN:O	1:E:1447:VAL:HB	2.21	0.41
1:F:333:ARG:O	1:F:334:ALA:C	2.64	0.41
1:F:430:VAL:O	1:F:431:SER:C	2.63	0.41
1:F:450:TYR:CE1	1:F:1551:ASN:HB2	2.56	0.41
1:F:612:ILE:CG2	1:F:628:TYR:CD2	2.98	0.41
1:F:918:LEU:HD23	1:F:921:GLU:OE2	2.21	0.41
1:F:1015:GLU:HA	1:F:1561:LEU:HD12	2.02	0.41
1:F:1220:ASN:HB3	1:F:1273:ILE:HG22	2.03	0.41
1:F:1400:VAL:HG11	1:F:1633:GLN:HB2	2.03	0.41
1:F:1586:VAL:HA	1:F:1587:PRO:HD3	1.80	0.41
2:G:114:MET:HG2	2:G:122:ILE:HG21	2.03	0.41
2:G:152:LYS:HA	2:G:153:PRO:HD3	1.91	0.41
2:G:265:CYS:HA	2:G:275:LEU:HD12	2.03	0.41
2:G:300:THR:HG22	2:G:301:TRP:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:316:PHE:CD2	2:G:316:PHE:C	2.99	0.41
2:G:428:PHE:CD1	2:G:428:PHE:C	2.99	0.41
2:G:471:ASP:OD1	2:G:493:MET:HE3	2.21	0.41
2:G:549:ASN:HD22	2:G:549:ASN:C	2.28	0.41
2:G:662:LEU:HD22	2:G:673:GLN:OE1	2.20	0.41
2:G:747:ARG:HD2	2:G:780:SER:OG	2.21	0.41
2:G:1153:ASN:HD22	2:G:1153:ASN:HA	1.58	0.41
2:G:1179:GLU:HB3	2:G:1193:LYS:HE3	2.03	0.41
2:G:1342:PHE:HE2	2:G:1391:VAL:CG2	2.34	0.41
2:G:1471:GLU:H	2:G:1471:GLU:HG3	1.44	0.41
2:G:1500:ASN:C	2:G:1502:ASN:N	2.77	0.41
2:G:1807:GLN:NE2	2:G:1867:MET:HE2	2.36	0.41
2:H:120:HIS:CD2	2:H:137:VAL:CG1	3.04	0.41
2:H:604:MET:HG3	2:H:627:HIS:O	2.20	0.41
2:H:705:TYR:HA	2:H:709:LEU:CD2	2.51	0.41
2:H:865:ILE:HG22	2:H:867:LYS:HG3	2.03	0.41
2:H:868:LEU:HD12	2:H:868:LEU:HA	1.73	0.41
2:H:1000:TYR:HA	2:H:1001:PRO:HD2	1.77	0.41
2:H:1269:ALA:HB1	2:H:1271:TYR:CE1	2.55	0.41
2:H:1291:ARG:HD2	2:H:1297:LYS:HG2	2.03	0.41
2:H:1299:VAL:HA	2:H:1300:PRO:HD3	1.85	0.41
2:H:1558:GLU:O	2:H:1560:PRO:HD3	2.20	0.41
2:H:1602:LEU:HB3	2:H:1606:ILE:HD11	2.02	0.41
2:H:1807:GLN:HB3	2:H:1860:VAL:CG1	2.51	0.41
2:H:1913:TRP:HZ3	2:H:1938:THR:HG21	1.86	0.41
2:I:22:ARG:HD2	2:I:42:HIS:HB2	2.02	0.41
2:I:129:ILE:O	2:I:129:ILE:HG13	2.21	0.41
2:I:186:LEU:HD11	2:I:255:LEU:HD23	2.03	0.41
2:I:306:THR:O	2:I:310:ARG:HG3	2.20	0.41
2:I:342:ASN:CB	2:I:406:ARG:NH2	2.83	0.41
2:I:384:ASN:HB3	2:I:527:LEU:CD1	2.36	0.41
2:I:478:LEU:HD22	2:I:481:LEU:HD11	2.02	0.41
2:I:604:MET:HB3	2:I:604:MET:HE2	1.86	0.41
2:I:612:THR:HG21	2:I:629:GLU:O	2.21	0.41
2:I:764:MET:O	2:I:768:ILE:HG13	2.21	0.41
2:I:858:LEU:HD23	2:I:864:PRO:HA	2.02	0.41
2:I:865:ILE:HG22	2:I:867:LYS:HG3	2.03	0.41
2:I:930:THR:HA	2:I:1007:LEU:HA	2.01	0.41
2:I:1203:TYR:HB3	2:I:1220:ARG:HB2	2.03	0.41
2:I:1261:PHE:CE2	2:I:1285:ILE:HD11	2.54	0.41
2:I:1309:PHE:N	2:I:1309:PHE:CD1	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1325:VAL:HG22	2:I:1335:PHE:CD2	2.55	0.41
2:I:1335:PHE:CD1	2:I:1629:ILE:HD11	2.55	0.41
2:I:1383:VAL:HA	2:I:1384:PRO:HD3	1.96	0.41
2:I:1429:VAL:O	2:I:1429:VAL:HG12	2.20	0.41
2:I:1589:PRO:CB	2:I:1596:PHE:CG	3.03	0.41
2:I:1704:MET:SD	2:I:1810:LEU:HD23	2.60	0.41
2:I:1762:MET:HG2	2:I:1779:LYS:NZ	2.35	0.41
2:I:1767:GLU:CB	2:I:2016:PRO:CG	2.91	0.41
2:I:1808:PRO:O	2:I:1812:LEU:HD23	2.21	0.41
2:I:1891:ILE:HD11	2:I:1943:LEU:HD22	2.03	0.41
2:J:134:ILE:HG22	2:J:138:ARG:HH11	1.86	0.41
2:J:250:PHE:O	2:J:315:LEU:HD23	2.21	0.41
2:J:310:ARG:HH11	2:J:460:ILE:CD1	2.34	0.41
2:J:649:GLU:HG3	2:J:650:LYS:N	2.35	0.41
2:J:854:VAL:HG21	2:J:1070:PRO:CA	2.50	0.41
2:J:856:THR:HG22	2:J:865:ILE:O	2.21	0.41
2:J:2005:PHE:HA	2:J:2010:LEU:CD1	2.30	0.41
3:J:2101:FMN:H1'2	3:J:2101:FMN:O4'	2.20	0.41
2:K:46:ALA:O	2:K:50:ASP:CG	2.64	0.41
2:K:785:SER:HB3	2:K:1094:HIS:HD2	1.83	0.41
2:K:1028:VAL:HA	2:K:1029:PRO:HD3	1.76	0.41
2:K:1028:VAL:HG13	2:K:1030:PHE:H	1.86	0.41
2:K:1074:LYS:HE3	2:K:1075:TYR:CE1	2.56	0.41
2:K:1180:VAL:HG11	2:K:1187:PHE:CD2	2.55	0.41
2:K:1220:ARG:HB3	2:K:1228:LEU:HB2	2.03	0.41
2:K:1355:LYS:O	2:K:1359:LYS:HG3	2.21	0.41
2:L:26:LEU:HD22	2:L:53:LEU:HD21	2.03	0.41
2:L:58:GLN:HA	2:L:59:PRO:HD3	1.95	0.41
2:L:129:ILE:O	2:L:129:ILE:CG1	2.69	0.41
2:L:349:PRO:O	2:L:392:THR:HG22	2.20	0.41
2:L:615:TRP:CE3	2:L:647:LYS:HB3	2.55	0.41
2:L:691:THR:OG1	2:L:715:SER:HB3	2.21	0.41
2:L:725:GLN:HE21	2:L:767:ARG:HH11	1.69	0.41
2:L:762:LEU:HD11	2:L:800:PHE:CB	2.51	0.41
2:L:783:GLY:CA	2:L:815:ARG:HD3	2.51	0.41
2:L:796:TRP:CG	2:L:797:SER:N	2.88	0.41
2:L:798:THR:HA	2:L:802:TYR:O	2.21	0.41
2:L:843:TRP:CD2	2:L:843:TRP:C	2.98	0.41
2:L:1017:LEU:HD21	2:L:1032:PRO:HB2	2.03	0.41
2:L:1286:LYS:HZ3	2:L:1367:ASP:HA	1.86	0.41
2:L:1293:TRP:NE1	2:L:1586:ASP:OD1	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1309:PHE:N	2:L:1309:PHE:CD1	2.89	0.41
2:L:1350:ILE:HD13	2:L:1350:ILE:HA	1.72	0.41
2:L:1515:LEU:HB3	2:L:1525:VAL:HG21	2.01	0.41
1:A:426:ASP:C	1:A:428:GLU:N	2.77	0.41
1:A:900:ASP:C	1:A:901:LEU:HD23	2.45	0.41
1:A:1037:ASN:CB	1:A:1674:ILE:HG23	2.51	0.41
1:A:1254:PHE:HB2	1:A:1257:THR:OG1	2.21	0.41
1:B:421:ARG:HH22	1:B:1613:LYS:CB	2.33	0.41
1:B:564:LEU:O	1:B:564:LEU:HD13	2.20	0.41
1:B:995:VAL:CG1	1:B:1375:ILE:HG23	2.51	0.41
1:B:1307:PHE:CD2	1:B:1307:PHE:C	2.99	0.41
1:B:1447:VAL:HG21	1:B:1467:LEU:HD11	2.02	0.41
1:B:1467:LEU:HD23	1:B:1467:LEU:HA	1.93	0.41
1:B:1699:PRO:HD2	1:D:1407:LYS:HB2	2.02	0.41
1:C:22:PHE:HE1	2:I:1867:MET:HG2	1.85	0.41
1:C:449:GLN:O	1:C:450:TYR:C	2.64	0.41
1:C:522:TYR:O	1:C:523:VAL:C	2.63	0.41
1:C:996:VAL:HG11	1:C:1578:LEU:HD11	2.03	0.41
1:C:1388:LYS:HD3	1:F:1692:GLN:NE2	2.36	0.41
1:C:1638:HIS:CG	1:C:1639:PRO:HD2	2.56	0.41
1:D:1400:VAL:HG11	1:D:1633:GLN:HB2	2.03	0.41
1:E:632:LEU:C	1:E:634:GLY:N	2.78	0.41
1:E:667:ALA:O	1:E:670:LEU:HB3	2.20	0.41
1:E:1078:ILE:CB	1:E:1338:GLY:HA2	2.50	0.41
1:F:1249:ILE:HD12	1:F:1249:ILE:C	2.45	0.41
2:G:68:GLU:HB3	2:G:69:PRO:HD2	2.03	0.41
2:G:215:TRP:HE3	2:G:216:ASP:N	2.07	0.41
2:G:527:LEU:HD23	2:G:527:LEU:C	2.46	0.41
2:G:659:THR:HA	2:G:689:GLY:O	2.21	0.41
2:G:713:HIS:HD2	2:G:740:ILE:HD13	1.85	0.41
2:G:955:LEU:O	2:G:959:THR:HG23	2.22	0.41
2:G:990:TYR:N	2:G:991:PRO:CD	2.84	0.41
2:G:1248:GLU:OE2	2:G:1250:ARG:HG2	2.21	0.41
2:G:1602:LEU:HD22	2:G:1606:ILE:HD11	2.03	0.41
2:G:1621:GLU:HG2	2:G:1632:VAL:HG11	2.02	0.41
2:H:44:GLN:HE21	2:H:48:LEU:HD21	1.86	0.41
2:H:153:PRO:HB3	2:H:270:ARG:HH11	1.86	0.41
2:H:196:PHE:CD2	2:H:266:LYS:CB	3.03	0.41
2:H:310:ARG:HH11	2:H:460:ILE:CD1	2.34	0.41
2:H:549:ASN:HD22	2:H:549:ASN:C	2.29	0.41
2:H:717:LYS:HD2	3:H:2101:FMN:O2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:741:LEU:C	2:H:741:LEU:HD12	2.46	0.41
2:H:1807:GLN:NE2	2:H:1867:MET:HE2	2.35	0.41
2:I:460:ILE:HA	2:I:461:PRO:HD3	1.79	0.41
2:I:472:THR:HB	2:I:493:MET:HE2	2.02	0.41
2:I:1653:LEU:HD21	2:I:1667:VAL:HG13	2.03	0.41
2:I:1712:SER:HA	2:I:1713:PRO:HD3	1.90	0.41
2:J:196:PHE:C	2:J:262:MET:HE1	2.46	0.41
2:J:350:MET:SD	2:J:392:THR:CG2	3.09	0.41
2:J:741:LEU:O	2:J:741:LEU:CG	2.68	0.41
2:J:1067:LEU:HD12	2:J:1067:LEU:H	1.85	0.41
2:J:1332:GLY:C	2:J:1334:ALA:H	2.29	0.41
2:J:1607:THR:HG22	2:J:1608:HIS:N	2.35	0.41
2:K:134:ILE:HG12	2:K:545:ILE:CD1	2.51	0.41
2:K:161:ALA:HA	2:K:164:GLU:HB2	2.03	0.41
2:K:759:GLN:O	2:K:763:LEU:HB2	2.21	0.41
2:K:783:GLY:HA3	2:K:1075:TYR:CG	2.56	0.41
2:K:1427:MET:O	2:K:1427:MET:HG3	2.20	0.41
2:K:1462:GLN:O	2:K:1466:VAL:HG23	2.21	0.41
2:K:1465:ALA:O	2:K:1469:SER:HB3	2.21	0.41
2:K:1473:PHE:HE1	2:K:1513:VAL:HG21	1.86	0.41
2:L:1022:ARG:HG2	2:L:1022:ARG:H	1.67	0.41
2:L:1071:VAL:HG23	2:L:1074:LYS:HE2	2.03	0.41
2:L:1589:PRO:HB3	2:L:1596:PHE:CD1	2.56	0.41
2:L:1998:LEU:HB2	2:L:2001:ILE:HD12	2.02	0.41
1:A:405:TRP:HA	1:A:405:TRP:CE3	2.56	0.40
1:A:422:LEU:HB3	1:A:429:ILE:CD1	2.49	0.40
1:A:689:ARG:NH2	1:A:1591:ASN:ND2	2.68	0.40
1:A:918:LEU:HA	1:A:921:GLU:CG	2.51	0.40
1:A:943:VAL:HG12	1:A:944:ASN:OD1	2.21	0.40
1:A:967:PHE:HB3	1:A:968:PRO:HD2	2.03	0.40
1:A:1232:LEU:HD23	1:A:1232:LEU:HA	1.84	0.40
1:A:1297:GLY:HA2	1:E:1496:ARG:CZ	2.51	0.40
1:A:1499:ARG:CD	1:E:1476:ARG:HH12	2.20	0.40
1:B:357:ALA:HB1	1:E:358:PHE:CE1	2.56	0.40
1:B:407:ARG:H	1:B:407:ARG:HG3	1.62	0.40
1:B:452:ILE:HD11	1:B:470:GLY:HA3	2.02	0.40
1:B:689:ARG:NH1	1:B:1339:GLU:OE2	2.54	0.40
1:B:1220:ASN:HB3	1:B:1273:ILE:HG22	2.03	0.40
1:C:880:LEU:C	1:C:882:GLY:N	2.76	0.40
1:C:991:ASP:HA	1:C:1364:THR:CG2	2.52	0.40
1:C:1079:ARG:HG2	1:C:1079:ARG:NH1	2.13	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:358:PHE:HD2	1:D:359:VAL:N	2.19	0.40
1:D:670:LEU:HD11	1:D:680:VAL:HG21	2.03	0.40
1:D:1202:GLY:HA3	1:D:1661:ARG:HD3	2.04	0.40
1:D:1254:PHE:HB2	1:D:1257:THR:OG1	2.21	0.40
1:D:1446:GLU:O	1:D:1450:ILE:HG13	2.22	0.40
1:D:1472:GLU:O	1:D:1475:GLU:HB2	2.21	0.40
1:E:26:VAL:CG2	2:K:2006:HIS:CE1	3.05	0.40
1:E:449:GLN:O	1:E:450:TYR:C	2.63	0.40
1:E:484:PRO:HG3	1:E:651:GLN:OE1	2.22	0.40
1:E:967:PHE:HB3	1:E:968:PRO:CD	2.50	0.40
1:E:1015:GLU:HA	1:E:1561:LEU:HD12	2.03	0.40
1:E:1050:TRP:HA	1:E:1050:TRP:HE3	1.84	0.40
1:E:1199:LEU:C	1:E:1201:SER:N	2.79	0.40
1:F:28:TRP:HE1	1:F:32:GLN:NE2	2.19	0.40
1:F:1150:ILE:HA	1:F:1151:PRO:HD3	1.92	0.40
2:G:48:LEU:HB2	2:G:79:TYR:OH	2.21	0.40
2:G:585:VAL:HG12	2:G:585:VAL:O	2.21	0.40
2:G:604:MET:HG3	2:G:627:HIS:HD2	1.86	0.40
2:G:608:MET:HA	3:G:2101:FMN:C5A	2.51	0.40
2:G:613:VAL:H	2:G:614:PRO:HD3	1.86	0.40
2:G:771:CYS:HB3	2:G:774:ILE:CD1	2.48	0.40
2:G:785:SER:HB3	2:G:1094:HIS:CD2	2.56	0.40
2:G:995:ARG:O	2:G:998:ALA:HB3	2.21	0.40
2:G:1181:PHE:CD1	2:G:1191:PRO:HD2	2.55	0.40
2:G:1245:THR:HG23	2:G:1260:THR:OG1	2.21	0.40
2:G:1419:LEU:HD23	2:G:1419:LEU:HA	1.89	0.40
2:G:1901:GLN:HB3	2:G:1905:GLU:OE2	2.21	0.40
2:H:92:GLU:O	2:H:93:ASP:HB2	2.21	0.40
2:H:369:ASN:HB3	2:H:377:HIS:ND1	2.36	0.40
2:H:376:ARG:HA	2:H:443:TYR:OH	2.21	0.40
2:H:626:TYR:OH	2:H:1088:ASP:HA	2.20	0.40
2:H:828:ALA:HA	2:H:1061:VAL:HG11	2.03	0.40
2:H:879:LEU:HB3	2:H:884:PHE:CE1	2.56	0.40
2:H:915:PHE:O	2:H:915:PHE:CG	2.74	0.40
2:H:1071:VAL:HG23	2:H:1074:LYS:HE2	2.04	0.40
2:H:1375:HIS:CE1	2:H:1610:MET:SD	3.13	0.40
2:H:1804:GLN:O	2:H:1861:PHE:HD1	2.04	0.40
2:H:2052:LYS:H	2:H:2052:LYS:CE	2.11	0.40
2:I:1099:LEU:HD12	2:I:1103:TYR:CB	2.51	0.40
2:I:1227:LYS:HG2	2:I:1228:LEU:HG	2.02	0.40
2:I:1460:THR:HB	2:I:1463:ASP:OD1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1851:MET:HE1	2:I:1859:VAL:CG2	2.49	0.40
2:J:251:PRO:HG3	2:J:316:PHE:N	2.36	0.40
2:J:1205:GLU:O	2:J:1217:ILE:HA	2.21	0.40
2:J:1224:GLN:HG3	2:J:1578:GLU:OE2	2.20	0.40
2:J:1863:ARG:O	2:J:1867:MET:HG3	2.20	0.40
2:K:540:ILE:CD1	2:K:557:GLU:HB3	2.48	0.40
2:K:1053:ILE:CD1	2:K:1061:VAL:HG13	2.50	0.40
2:K:1851:MET:SD	2:K:1856:LEU:HA	2.61	0.40
2:K:1957:MET:HE1	2:K:1962:LEU:HD22	2.02	0.40
2:L:120:HIS:HD2	2:L:137:VAL:HG21	1.86	0.40
2:L:161:ALA:HA	2:L:164:GLU:HB2	2.03	0.40
2:L:717:LYS:HD2	3:L:2101:FMN:O2	2.20	0.40
2:L:731:ALA:HB1	2:L:771:CYS:SG	2.61	0.40
2:L:1220:ARG:HB3	2:L:1228:LEU:HB2	2.03	0.40
2:L:1607:THR:HG22	2:L:1608:HIS:N	2.36	0.40
2:L:1700:GLN:HB2	2:L:1704:MET:HE1	2.03	0.40
2:L:2009:PHE:C	2:L:2011:ARG:H	2.30	0.40
2:L:2077:TYR:O	2:L:2078:GLU:C	2.64	0.40
1:A:846:TRP:CD1	1:A:846:TRP:C	2.99	0.40
1:A:1307:PHE:CD2	1:A:1307:PHE:C	2.99	0.40
1:A:1426:GLU:HA	1:A:1429:ARG:HG3	2.03	0.40
1:B:450:TYR:CZ	1:B:1551:ASN:HB2	2.56	0.40
1:B:522:TYR:O	1:B:523:VAL:C	2.65	0.40
1:B:740:LEU:HA	1:B:740:LEU:HD23	1.81	0.40
1:B:948:HIS:O	1:B:952:TYR:CD2	2.74	0.40
1:B:1094:LYS:HE3	1:B:1316:TYR:CG	2.54	0.40
1:B:1687:TYR:OH	1:D:1388:LYS:HB3	2.21	0.40
1:C:565:GLN:O	1:C:565:GLN:CG	2.69	0.40
1:C:626:TRP:CE3	1:C:898:PHE:HB2	2.57	0.40
1:C:1000:ALA:HB3	1:C:1197:ALA:HB2	2.03	0.40
1:C:1015:GLU:HA	1:C:1561:LEU:HD12	2.04	0.40
1:C:1364:THR:CG2	1:C:1366:GLN:HB2	2.51	0.40
1:D:622:GLU:HB2	1:D:623:PHE:CD2	2.56	0.40
1:D:739:ASP:OD2	1:D:790:TYR:CG	2.74	0.40
1:D:767:HIS:NE2	1:D:771:LEU:CD2	2.82	0.40
1:D:918:LEU:HD23	1:D:921:GLU:OE2	2.22	0.40
1:E:61:LEU:HA	1:E:65:TYR:HB2	2.03	0.40
1:E:504:GLY:O	1:E:926:SER:HB2	2.21	0.40
1:E:632:LEU:O	1:E:633:THR:C	2.64	0.40
1:E:1149:LEU:HD23	1:E:1149:LEU:HA	1.73	0.40
1:E:1400:VAL:H	1:E:1400:VAL:HG23	1.66	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:358:PHE:HD2	1:F:359:VAL:N	2.19	0.40
1:F:1042:LEU:HD23	1:F:1042:LEU:HA	1.76	0.40
1:F:1638:HIS:ND1	1:F:1639:PRO:CD	2.84	0.40
2:G:555:LYS:HG2	2:G:559:PHE:HE1	1.86	0.40
2:G:616:ASP:OD1	2:G:616:ASP:N	2.53	0.40
2:G:704:GLU:O	2:G:705:TYR:C	2.64	0.40
2:G:718:PRO:HG2	2:G:741:LEU:HD11	2.03	0.40
2:G:917:ARG:NH1	2:G:1057:TYR:OH	2.54	0.40
2:G:1220:ARG:HB3	2:G:1228:LEU:HB2	2.03	0.40
2:G:1251:THR:CG2	2:G:1292:VAL:HG13	2.50	0.40
2:G:1355:LYS:O	2:G:1359:LYS:HG3	2.22	0.40
2:G:1403:ALA:CB	2:G:1447:GLN:HA	2.51	0.40
2:G:1692:TYR:CD1	2:G:1847:LEU:HD21	2.49	0.40
2:G:1851:MET:HE3	2:G:2025:ILE:CG1	2.48	0.40
2:G:2013:GLY:C	2:G:2016:PRO:HD2	2.45	0.40
2:H:47:GLN:HG3	2:I:23:PRO:CD	2.50	0.40
2:I:129:ILE:O	2:I:129:ILE:CG1	2.68	0.40
2:I:300:THR:O	2:I:304:PHE:HB2	2.21	0.40
2:I:316:PHE:CD2	2:I:316:PHE:C	2.99	0.40
2:I:462:ALA:HB3	2:I:481:LEU:O	2.21	0.40
2:I:527:LEU:HD23	2:I:527:LEU:C	2.46	0.40
2:I:595:SER:CB	2:I:602:PRO:HG3	2.33	0.40
2:I:883:ILE:HG22	2:I:884:PHE:N	2.36	0.40
2:I:1032:PRO:O	2:I:1033:ALA:HB2	2.22	0.40
2:I:1086:ILE:O	2:I:1090:ILE:HG13	2.22	0.40
2:I:1180:VAL:HG11	2:I:1187:PHE:CD2	2.57	0.40
2:I:1224:GLN:CG	2:I:1578:GLU:OE2	2.67	0.40
2:I:1866:THR:CA	2:I:1869:VAL:HG22	2.50	0.40
2:J:141:TYR:HA	2:J:144:ARG:HB3	2.03	0.40
2:J:196:PHE:CD2	2:J:266:LYS:CB	3.05	0.40
2:J:327:PRO:C	2:K:1338:ARG:HH22	2.15	0.40
2:J:369:ASN:HB3	2:J:377:HIS:ND1	2.37	0.40
2:J:689:GLY:HA3	2:J:713:HIS:CE1	2.56	0.40
2:J:779:GLY:HA3	2:J:811:MET:HE3	2.01	0.40
2:J:781:GLY:CA	2:J:1071:VAL:HG13	2.41	0.40
2:J:944:VAL:HG11	2:J:1055:ALA:HA	2.01	0.40
2:J:1180:VAL:HG11	2:J:1187:PHE:CD2	2.56	0.40
2:J:1208:ASN:N	2:J:1209:PRO:HD3	2.35	0.40
2:J:1266:HIS:CE1	2:J:1275:ARG:CD	2.93	0.40
2:J:1317:ASN:OD1	2:J:1319:GLN:HB3	2.20	0.40
2:J:1637:VAL:HG11	2:J:1679:LEU:CD1	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1708:LEU:O	2:J:1708:LEU:HD22	2.21	0.40
2:J:1804:GLN:HB3	2:J:1861:PHE:CE1	2.56	0.40
2:J:1871:VAL:HG12	2:J:1872:GLU:N	2.36	0.40
2:J:1913:TRP:HZ3	2:J:1938:THR:HG21	1.85	0.40
2:K:113:PHE:N	2:K:113:PHE:HD1	2.19	0.40
2:K:276:LEU:HD22	2:K:466:VAL:CG1	2.51	0.40
2:K:332:ALA:N	2:L:1627:ASN:ND2	2.70	0.40
2:K:608:MET:HE2	2:K:611:THR:OG1	2.22	0.40
2:K:1179:GLU:HB3	2:K:1193:LYS:HE3	2.03	0.40
2:K:1179:GLU:O	2:K:1190:ASN:N	2.53	0.40
2:L:44:GLN:HE21	2:L:48:LEU:HD21	1.85	0.40
2:L:437:ALA:HA	2:L:438:PRO:HD3	1.88	0.40
2:L:727:VAL:HA	2:L:730:ILE:CG1	2.51	0.40
2:L:883:ILE:HG22	2:L:884:PHE:N	2.35	0.40
2:L:988:GLU:HA	2:L:989:PRO:HD3	1.74	0.40
2:L:1098:LEU:HD12	2:L:1098:LEU:HA	1.91	0.40
2:L:1099:LEU:HD12	2:L:1103:TYR:CB	2.51	0.40
2:L:1206:ILE:O	2:L:1209:PRO:HG3	2.21	0.40
2:L:1588:ASN:OD1	2:L:1589:PRO:HD2	2.21	0.40
1:A:335:LEU:HD12	1:A:335:LEU:O	2.20	0.40
1:A:447:PHE:HA	1:A:1550:GLY:O	2.22	0.40
1:A:740:LEU:HD23	1:A:740:LEU:HA	1.94	0.40
1:A:958:GLU:HA	1:A:959:PRO:HD3	1.92	0.40
1:A:1313:GLU:H	1:A:1313:GLU:HG2	1.48	0.40
1:A:1685:ALA:HB1	1:A:1686:PRO:HD2	2.03	0.40
1:B:538:ARG:HD2	1:B:542:GLN:NE2	2.36	0.40
1:B:673:LEU:HD21	1:B:884:MET:HE3	2.03	0.40
1:B:1558:GLN:HE22	1:B:1572:TRP:C	2.29	0.40
1:C:1097:LEU:CD1	1:F:1149:LEU:HD12	2.50	0.40
1:C:1342:ARG:NH1	1:C:1347:THR:CB	2.65	0.40
1:C:1400:VAL:HG11	1:C:1633:GLN:HB2	2.03	0.40
1:D:740:LEU:HD12	1:D:781:ILE:HD13	2.02	0.40
1:D:921:GLU:HG3	1:D:922:ILE:H	1.85	0.40
1:E:358:PHE:HD2	1:E:359:VAL:N	2.19	0.40
1:E:567:ASN:O	1:E:571:LYS:HG3	2.20	0.40
1:E:859:VAL:HG13	1:E:918:LEU:HD13	2.02	0.40
1:E:1081:ILE:HD12	1:E:1091:PRO:CG	2.52	0.40
1:E:1162:GLY:O	1:E:1354:SER:HA	2.21	0.40
1:F:447:PHE:HE1	1:F:451:HIS:HE2	1.70	0.40
1:F:626:TRP:CZ3	1:F:898:PHE:HB2	2.56	0.40
1:F:1639:PRO:O	1:F:1640:LYS:C	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:172:ILE:HG22	2:G:514:VAL:O	2.21	0.40
2:G:889:SER:C	2:G:891:ARG:H	2.28	0.40
2:G:1227:LYS:HG2	2:G:1228:LEU:HG	2.02	0.40
2:G:1700:GLN:O	2:G:1700:GLN:HG2	2.21	0.40
2:G:1741:ASN:HD21	2:G:1798:GLY:HA3	1.86	0.40
2:G:1764:MET:O	2:G:1780:ILE:HG13	2.21	0.40
2:G:2044:THR:HG21	2:G:2054:TYR:OH	2.21	0.40
2:H:314:LEU:O	2:H:318:ILE:HG13	2.20	0.40
2:H:601:PRO:HB2	2:H:626:TYR:CE2	2.56	0.40
2:H:641:MET:CE	2:H:676:LEU:HD12	2.48	0.40
2:H:685:VAL:HG23	2:H:1186:ARG:NH1	2.36	0.40
2:H:740:ILE:HA	2:H:775:VAL:HB	2.03	0.40
2:H:906:LEU:HA	2:H:906:LEU:HD22	1.85	0.40
2:H:1031:VAL:HA	2:H:1032:PRO:HD3	1.63	0.40
2:H:1299:VAL:O	2:H:1301:PHE:HD2	2.03	0.40
2:H:1314:GLU:O	2:H:1394:VAL:HA	2.20	0.40
2:H:1883:MET:HE2	2:H:1883:MET:HB3	1.84	0.40
2:I:26:LEU:HD22	2:I:53:LEU:HD21	2.03	0.40
2:I:126:VAL:O	2:I:133:LYS:HE3	2.22	0.40
2:I:727:VAL:HA	2:I:730:ILE:CG1	2.51	0.40
2:I:871:ARG:HB2	2:I:909:ASP:HB2	2.03	0.40
2:I:995:ARG:O	2:I:998:ALA:HB3	2.20	0.40
2:I:1084:LYS:O	2:I:1088:ASP:HB2	2.21	0.40
2:I:1325:VAL:HG22	2:I:1335:PHE:HD2	1.87	0.40
2:J:420:PRO:HB2	2:J:423:GLN:HB2	2.04	0.40
2:J:618:VAL:HG13	2:J:619:ALA:N	2.36	0.40
2:J:752:HIS:NE2	2:J:856:THR:HG22	2.35	0.40
2:J:1097:PHE:HD2	2:J:1100:ARG:NH1	2.15	0.40
2:J:1944:ASN:HA	2:J:1993:PHE:CE1	2.55	0.40
2:J:2077:TYR:O	2:J:2078:GLU:C	2.65	0.40
2:K:129:ILE:HG21	2:K:132:LYS:CG	2.51	0.40
2:K:233:ASN:HA	2:K:234:PRO:HD3	1.88	0.40
2:K:277:GLU:OE2	2:K:277:GLU:HA	2.21	0.40
2:K:433:LEU:C	2:K:435:ILE:H	2.28	0.40
2:K:699:ILE:HD12	2:K:699:ILE:H	1.85	0.40
2:K:739:ILE:HG13	2:K:773:ASN:HB3	2.03	0.40
2:K:922:GLU:HA	2:K:923:PRO:HD3	1.90	0.40
2:K:989:PRO:C	2:K:991:PRO:HD2	2.45	0.40
2:K:1175:MET:HA	2:K:1274:ILE:HD11	2.02	0.40
2:K:1442:TYR:C	2:K:1445:THR:HG22	2.44	0.40
2:K:1589:PRO:HB2	2:K:1596:PHE:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1631:ARG:CZ	2:K:1688:PRO:HA	2.51	0.40
2:L:200:LEU:O	2:L:204:ILE:HG13	2.21	0.40
2:L:441:SER:C	2:L:443:TYR:H	2.29	0.40
2:L:976:GLN:HA	2:L:977:PRO:HD3	1.87	0.40
2:L:1179:GLU:HB3	2:L:1193:LYS:HE3	2.02	0.40
1:A:635:ILE:HG13	1:A:635:ILE:H	1.58	0.40
1:A:828:TRP:NE1	1:A:838:THR:HA	2.35	0.40
1:A:1191:LEU:HD23	1:A:1191:LEU:HA	1.94	0.40
1:A:1400:VAL:HG11	1:A:1633:GLN:HB2	2.02	0.40
1:B:391:PHE:CZ	1:B:728:TYR:HB2	2.57	0.40
1:B:683:THR:HB	1:B:714:PHE:CB	2.44	0.40
1:B:1037:ASN:ND2	2:H:1011:GLN:HG2	2.35	0.40
1:B:1229:THR:HG23	1:D:1236:TYR:OH	2.22	0.40
1:C:617:LEU:HD23	1:C:617:LEU:N	2.37	0.40
1:C:767:HIS:CG	1:C:813:LEU:HD12	2.55	0.40
1:C:983:GLN:O	1:C:987:MET:HG3	2.21	0.40
1:C:1106:LEU:HD13	1:C:1142:LEU:HD13	2.03	0.40
1:C:1232:LEU:HD21	1:F:1232:LEU:HD11	2.03	0.40
1:C:1420:TYR:OH	1:F:1473:HIS:CE1	2.74	0.40
1:C:1554:LEU:HD23	1:C:1606:VAL:HG12	2.02	0.40
1:D:17:LEU:HD22	2:J:2041:PRO:HB3	2.02	0.40
1:D:799:LEU:HD11	1:D:821:LEU:HD22	2.02	0.40
1:E:14:LEU:HD13	1:E:18:LEU:HG	2.02	0.40
1:E:430:VAL:O	1:E:431:SER:C	2.65	0.40
1:E:683:THR:HG21	1:E:725:LEU:HD11	2.04	0.40
1:E:1581:LEU:HD23	1:E:1581:LEU:HA	1.90	0.40
1:E:1685:ALA:HB1	1:E:1686:PRO:HD2	2.04	0.40
1:F:36:LEU:O	1:F:76:ARG:NH2	2.53	0.40
1:F:444:LEU:HD22	1:F:448:MET:CG	2.52	0.40
1:F:490:VAL:HG12	1:F:490:VAL:O	2.21	0.40
1:F:511:VAL:HG12	1:F:512:PRO:HD2	2.02	0.40
1:F:943:VAL:HG12	1:F:944:ASN:OD1	2.22	0.40
1:F:1262:VAL:HG12	1:F:1267:LEU:HD21	2.03	0.40
2:G:129:ILE:HG21	2:G:132:LYS:HG3	2.03	0.40
2:G:617:PHE:HD1	2:G:822:ALA:CA	2.35	0.40
2:G:730:ILE:O	2:G:733:ALA:HB3	2.21	0.40
2:G:1142:ILE:HG13	2:G:1209:PRO:CG	2.52	0.40
2:G:1180:VAL:HG11	2:G:1187:PHE:CD2	2.57	0.40
2:G:1462:GLN:O	2:G:1466:VAL:HG23	2.21	0.40
2:G:1768:THR:O	2:G:1776:LYS:HB2	2.22	0.40
2:H:411:PRO:HD2	2:H:414:LEU:HD11	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:489:GLU:HG2	2:H:492:ARG:NH1	2.37	0.40
2:H:601:PRO:HA	2:H:602:PRO:HD3	1.82	0.40
2:H:741:LEU:O	2:H:741:LEU:CG	2.69	0.40
2:H:1092:ASN:HA	2:H:1095:ILE:CG1	2.46	0.40
2:H:1157:VAL:O	2:H:1161:MET:HG3	2.21	0.40
2:H:1204:VAL:HA	2:H:1218:SER:O	2.21	0.40
2:H:1382:MET:HG2	2:H:1427:MET:HE2	2.04	0.40
2:H:1632:VAL:HB	2:H:1685:VAL:HG22	2.02	0.40
2:I:459:LYS:C	2:I:460:ILE:HD12	2.47	0.40
2:I:769:ARG:HD3	2:I:769:ARG:HA	1.81	0.40
2:I:779:GLY:HA3	2:I:811:MET:HB3	2.04	0.40
2:I:834:ASP:O	2:I:836:PRO:HD3	2.20	0.40
2:I:914:TRP:C	2:I:916:GLY:H	2.28	0.40
2:I:976:GLN:HA	2:I:977:PRO:HD3	1.92	0.40
2:I:1015:HIS:CD2	2:I:1019:LEU:HD11	2.56	0.40
2:I:1318:ALA:HB2	2:I:1391:VAL:HG11	2.03	0.40
2:I:1635:TYR:CE2	2:I:1637:VAL:HG23	2.56	0.40
2:J:356:LEU:HD23	2:J:356:LEU:HA	1.66	0.40
2:J:448:HIS:CD2	2:J:491:VAL:HG12	2.53	0.40
2:J:644:ALA:O	2:J:648:ILE:HG13	2.21	0.40
2:J:652:ILE:HG23	2:J:656:ARG:HB2	2.03	0.40
2:J:1028:VAL:HA	2:J:1029:PRO:HD3	1.76	0.40
2:J:1084:LYS:HE3	2:J:1088:ASP:OD2	2.22	0.40
2:J:1276:GLU:HB3	2:J:1278:MET:CE	2.51	0.40
2:J:1333:GLU:HG3	2:J:1338:ARG:HD2	2.03	0.40
2:K:57:PRO:HG3	2:K:68:GLU:CG	2.41	0.40
2:K:197:VAL:HG11	2:K:259:ALA:HB1	2.03	0.40
2:K:352:SER:C	2:K:353:ILE:HG13	2.47	0.40
2:K:769:ARG:HD3	2:K:769:ARG:HA	1.78	0.40
2:K:865:ILE:HG22	2:K:867:LYS:HG3	2.03	0.40
2:K:917:ARG:NH1	2:K:1057:TYR:OH	2.55	0.40
2:K:1009:ASN:HD22	2:K:1010:ALA:N	2.19	0.40
2:K:1064:THR:CG2	2:K:1065:CYS:N	2.84	0.40
2:K:1153:ASN:HD22	2:K:1153:ASN:HA	1.58	0.40
2:K:1374:VAL:CG2	2:K:1436:ARG:NE	2.85	0.40
2:K:1375:HIS:HE1	2:K:1610:MET:SD	2.44	0.40
2:K:1523:ILE:N	2:K:1523:ILE:HD12	2.36	0.40
2:K:1616:VAL:O	2:K:1620:VAL:HG23	2.21	0.40
2:K:1722:ALA:CB	2:K:1812:LEU:HD11	2.52	0.40
2:L:350:MET:SD	2:L:392:THR:CG2	3.10	0.40
2:L:867:LYS:NZ	2:L:1065:CYS:SG	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1380:TYR:CD2	2:L:1380:TYR:N	2.89	0.40
2:L:1489:VAL:HB	2:L:1514:LEU:HB2	2.03	0.40
2:L:2044:THR:HG21	2:L:2054:TYR:OH	2.21	0.40
1:A:942:VAL:O	2:G:1536:HIS:HB2	2.21	0.40
1:A:1228:GLY:O	1:A:1232:LEU:HB2	2.22	0.40
1:A:1306:GLY:C	1:A:1568:ALA:HB2	2.47	0.40
1:A:1558:GLN:HE22	1:A:1572:TRP:C	2.29	0.40
1:B:29:ILE:HG22	1:B:30:GLU:N	2.37	0.40
1:B:701:ARG:NH1	1:B:1610:ARG:HH21	2.19	0.40
1:B:1030:TRP:CE2	1:B:1673:LEU:HD22	2.57	0.40
1:B:1589:ASN:OD1	1:B:1589:ASN:C	2.65	0.40
1:B:1638:HIS:CG	1:B:1639:PRO:HD2	2.55	0.40
1:C:454:HIS:CD2	1:C:454:HIS:N	2.89	0.40
1:C:511:VAL:CG1	1:C:512:PRO:HD2	2.51	0.40
1:C:620:LYS:HA	1:C:625:ASN:O	2.21	0.40
1:C:799:LEU:HD11	1:C:821:LEU:HD22	2.03	0.40
1:C:1301:VAL:HG23	1:C:1363:MET:CG	2.51	0.40
1:C:1638:HIS:ND1	1:C:1639:PRO:CD	2.84	0.40
1:D:848:ARG:NH1	1:D:871:PHE:C	2.80	0.40
1:D:1447:VAL:CG2	1:D:1467:LEU:HD21	2.52	0.40
1:E:742:TYR:CE1	1:E:884:MET:HB3	2.57	0.40
1:E:921:GLU:HG3	1:E:922:ILE:N	2.37	0.40
1:E:1210:TYR:CE1	1:E:1215:LEU:HD23	2.57	0.40
1:F:46:GLU:HB3	1:F:80:CYS:HA	2.02	0.40
1:F:767:HIS:NE2	1:F:771:LEU:CD2	2.85	0.40
1:F:1426:GLU:HA	1:F:1429:ARG:HG3	2.03	0.40
1:F:1447:VAL:HG21	1:F:1467:LEU:HD11	2.02	0.40
1:F:1638:HIS:CG	1:F:1639:PRO:HD2	2.56	0.40
2:G:57:PRO:O	2:G:58:GLN:C	2.65	0.40
2:G:196:PHE:C	2:G:262:MET:HE1	2.46	0.40
2:G:352:SER:C	2:G:353:ILE:HG13	2.47	0.40
2:G:353:ILE:O	2:G:353:ILE:HG22	2.22	0.40
2:G:626:TYR:OH	2:G:1088:ASP:HA	2.22	0.40
2:G:1064:THR:CG2	2:G:1065:CYS:N	2.84	0.40
2:G:1764:MET:HG3	2:G:1781:PHE:CE1	2.56	0.40
2:G:1835:GLY:HA3	2:G:1840:GLU:N	2.37	0.40
2:H:440:HIS:HD2	2:H:497:ASP:O	2.03	0.40
2:H:1180:VAL:HG11	2:H:1187:PHE:CD2	2.56	0.40
2:H:1217:ILE:H	2:H:1217:ILE:HG13	1.76	0.40
2:H:1712:SER:HA	2:H:1713:PRO:HD3	1.91	0.40
2:H:1795:SER:HA	2:H:1796:PRO:HD3	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1944:ASN:HA	2:H:1993:PHE:CE1	2.56	0.40
2:I:186:LEU:HD23	2:I:186:LEU:HA	1.79	0.40
2:I:376:ARG:HA	2:I:443:TYR:OH	2.20	0.40
2:I:666:ASN:N	2:I:667:PRO:HD3	2.37	0.40
2:I:689:GLY:HA3	2:I:713:HIS:CE1	2.56	0.40
2:I:731:ALA:HB1	2:I:771:CYS:SG	2.62	0.40
2:I:1000:TYR:HA	2:I:1001:PRO:HD2	1.79	0.40
2:I:1299:VAL:O	2:I:1301:PHE:HD2	2.05	0.40
2:I:1412:MET:HE3	2:I:1412:MET:HB3	1.89	0.40
2:I:1741:ASN:HD21	2:I:1798:GLY:HA3	1.86	0.40
2:I:1764:MET:HE3	2:I:1865:LEU:HD12	2.04	0.40
2:I:1807:GLN:HB3	2:I:1860:VAL:CG1	2.52	0.40
2:J:787:ASP:O	2:J:790:PRO:HD2	2.22	0.40
2:J:882:LYS:HB3	2:J:898:ARG:NH1	2.36	0.40
2:J:1305:LEU:HD23	2:J:1366:ILE:CD1	2.52	0.40
2:J:1915:LEU:HD13	2:J:1936:LEU:HD22	2.03	0.40
2:K:276:LEU:HD23	2:K:276:LEU:O	2.21	0.40
2:K:471:ASP:OD1	2:K:493:MET:HE3	2.22	0.40
2:K:608:MET:HA	3:K:2101:FMN:N5	2.36	0.40
2:K:829:LYS:O	2:K:832:ILE:HB	2.22	0.40
2:K:1199:THR:CG2	2:K:1200:ARG:N	2.85	0.40
2:K:1250:ARG:NH1	2:K:1592:VAL:HG12	2.37	0.40
2:K:1332:GLY:C	2:K:1334:ALA:H	2.29	0.40
2:K:1351:VAL:CG1	2:K:1352:VAL:N	2.83	0.40
2:K:1366:ILE:HG22	2:K:1366:ILE:O	2.21	0.40
2:K:1804:GLN:O	2:K:1861:PHE:HD1	2.05	0.40
2:L:221:TYR:HE1	2:L:320:LEU:CD1	2.29	0.40
2:L:270:ARG:HB3	2:L:274:GLU:HB2	2.03	0.40
2:L:606:ALA:HB2	2:L:811:MET:HG3	2.04	0.40
2:L:1374:VAL:HG22	2:L:1436:ARG:HE	1.85	0.40
2:L:1406:ASN:HB3	2:L:1411:LYS:HG3	2.03	0.40

All (2) 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)
2:H:1527:SER:O	2:K:19:GLN:NE2[2_646]	2.09	0.11
1:B:1452:SER:O	2:G:1092:ASN:ND2[1_556]	2.15	0.05

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	1451/1878 (77%)	1291 (89%)	148 (10%)	12 (1%)	16	47
1	B	1458/1878 (78%)	1295 (89%)	151 (10%)	12 (1%)	16	47
1	C	1456/1878 (78%)	1293 (89%)	151 (10%)	12 (1%)	16	47
1	D	1461/1878 (78%)	1290 (88%)	155 (11%)	16 (1%)	11	39
1	E	1450/1878 (77%)	1292 (89%)	146 (10%)	12 (1%)	16	47
1	F	1455/1878 (78%)	1300 (89%)	140 (10%)	15 (1%)	12	41
2	G	2058/2060 (100%)	1792 (87%)	240 (12%)	26 (1%)	9	35
2	H	2058/2060 (100%)	1786 (87%)	244 (12%)	28 (1%)	9	34
2	I	2058/2060 (100%)	1799 (87%)	233 (11%)	26 (1%)	9	35
2	J	2058/2060 (100%)	1792 (87%)	240 (12%)	26 (1%)	9	35
2	K	2058/2060 (100%)	1772 (86%)	258 (12%)	28 (1%)	9	34
2	L	2058/2060 (100%)	1777 (86%)	253 (12%)	28 (1%)	9	34
All	All	21079/23628 (89%)	18479 (88%)	2359 (11%)	241 (1%)	11	39

All (241) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1227	GLY
1	A	1566	LYS
1	A	1593	ASP
1	B	614	PHE
1	B	1566	LYS
1	B	1593	ASP
1	C	1566	LYS
1	C	1593	ASP
1	D	606	PRO
1	D	1566	LYS
1	D	1593	ASP
1	E	1227	GLY

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Mol	Chain	Res	Type
1	E	1566	LYS
1	E	1593	ASP
1	F	613	PRO
1	F	1566	LYS
1	F	1593	ASP
2	G	1363	PRO
2	G	1478	GLN
2	H	1363	PRO
2	H	1478	GLN
2	I	1363	PRO
2	I	1478	GLN
2	J	1363	PRO
2	J	1478	GLN
2	K	1048	TRP
2	K	1363	PRO
2	K	1478	GLN
2	L	1363	PRO
2	L	1478	GLN
1	A	852	LEU
1	B	609	VAL
1	B	852	LEU
1	B	1227	GLY
1	C	425	VAL
1	C	614	PHE
1	C	852	LEU
1	C	1227	GLY
1	C	1524	GLY
1	D	425	VAL
1	D	527	ALA
1	D	582	SER
1	D	852	LEU
1	D	1227	GLY
1	E	852	LEU
1	F	535	TYR
1	F	852	LEU
1	F	1227	GLY
1	F	1524	GLY
2	G	29	GLY
2	G	520	GLY
2	G	780	SER
2	G	915	PHE
2	G	1048	TRP

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Mol	Chain	Res	Type
2	G	2076	LYS
2	H	29	GLY
2	H	520	GLY
2	H	780	SER
2	H	915	PHE
2	H	989	PRO
2	H	1048	TRP
2	H	1632	VAL
2	H	2076	LYS
2	I	29	GLY
2	I	520	GLY
2	I	551	GLU
2	I	780	SER
2	I	989	PRO
2	I	1048	TRP
2	I	2076	LYS
2	J	29	GLY
2	J	520	GLY
2	J	780	SER
2	J	915	PHE
2	J	1048	TRP
2	J	1632	VAL
2	J	2076	LYS
2	K	29	GLY
2	K	520	GLY
2	K	780	SER
2	K	915	PHE
2	K	1688	PRO
2	K	2076	LYS
2	L	29	GLY
2	L	520	GLY
2	L	551	GLU
2	L	780	SER
2	L	989	PRO
2	L	1048	TRP
2	L	1739	LYS
2	L	2076	LYS
1	A	425	VAL
1	B	425	VAL
1	D	1524	GLY
1	E	1524	GLY
1	F	425	VAL

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Mol	Chain	Res	Type
2	G	551	GLU
2	G	989	PRO
2	G	1632	VAL
2	G	1739	LYS
2	H	506	VAL
2	H	551	GLU
2	H	1739	LYS
2	I	915	PHE
2	I	1632	VAL
2	I	1739	LYS
2	J	551	GLU
2	J	989	PRO
2	J	1739	LYS
2	K	286	SER
2	K	551	GLU
2	K	869	ALA
2	K	989	PRO
2	K	1739	LYS
2	L	915	PHE
1	A	614	PHE
1	A	1524	GLY
1	B	1524	GLY
1	D	526	MET
1	D	614	PHE
1	D	1462	ASP
1	E	425	VAL
1	E	1462	ASP
2	G	286	SER
2	G	694	ALA
2	G	841	ASP
2	G	1239	ASP
2	G	1567	THR
2	G	1878	ARG
2	H	286	SER
2	H	841	ASP
2	H	1125	ASP
2	H	1239	ASP
2	H	1567	THR
2	H	1878	ARG
2	I	286	SER
2	I	841	ASP
2	I	1567	THR

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Mol	Chain	Res	Type
2	I	1878	ARG
2	J	286	SER
2	J	841	ASP
2	J	1239	ASP
2	J	1567	THR
2	J	1878	ARG
2	K	506	VAL
2	K	694	ALA
2	K	841	ASP
2	K	1239	ASP
2	K	1567	THR
2	K	1878	ARG
2	L	286	SER
2	L	506	VAL
2	L	694	ALA
2	L	841	ASP
2	L	1239	ASP
2	L	1632	VAL
2	L	1878	ARG
1	B	1366	GLN
1	B	1462	ASP
1	C	1462	ASP
1	D	1366	GLN
1	E	1366	GLN
1	F	1056	GLY
1	F	1105	ASP
1	F	1366	GLN
1	F	1462	ASP
2	G	506	VAL
2	H	694	ALA
2	I	694	ALA
2	I	958	LEU
2	I	1239	ASP
2	K	466	VAL
2	L	1267	PRO
2	L	1567	THR
2	L	1588	ASN
1	A	1366	GLN
1	A	1462	ASP
2	G	1267	PRO
2	G	1750	GLY
2	H	1267	PRO

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Mol	Chain	Res	Type
2	I	506	VAL
2	I	1267	PRO
2	I	1588	ASN
2	J	466	VAL
2	J	506	VAL
2	J	653	PRO
2	J	694	ALA
2	J	1588	ASN
2	J	1750	GLY
2	K	1632	VAL
2	L	466	VAL
2	L	653	PRO
2	L	958	LEU
2	L	1249	GLY
2	L	1750	GLY
1	B	812	GLY
1	B	1409	GLY
1	D	812	GLY
1	F	1409	GLY
2	G	466	VAL
2	G	1588	ASN
2	H	466	VAL
2	H	653	PRO
2	H	1688	PRO
2	H	1750	GLY
2	I	466	VAL
2	I	653	PRO
2	I	1750	GLY
2	J	1267	PRO
2	K	434	PRO
2	K	653	PRO
2	K	1267	PRO
1	C	1409	GLY
1	D	1124	GLY
1	D	1409	GLY
1	E	1056	GLY
1	E	1505	GLY
2	G	434	PRO
2	H	1249	GLY
2	J	1249	GLY
2	K	1249	GLY
2	K	1588	ASN

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Mol	Chain	Res	Type
2	K	1750	GLY
1	A	812	GLY
1	A	1124	GLY
1	C	1124	GLY
1	E	812	GLY
1	E	1409	GLY
2	H	1588	ASN
2	I	1249	GLY
2	L	434	PRO
1	A	1409	GLY
1	C	484	PRO
1	C	812	GLY
2	G	1249	GLY
2	H	434	PRO
1	F	812	GLY
1	F	903	GLY
2	G	1056	VAL
2	J	434	PRO
2	L	151	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	1220/1527 (80%)	1085 (89%)	135 (11%)	6 24
1	B	1227/1527 (80%)	1097 (89%)	130 (11%)	6 26
1	C	1225/1527 (80%)	1089 (89%)	136 (11%)	6 24
1	D	1229/1527 (80%)	1091 (89%)	138 (11%)	6 24
1	E	1219/1527 (80%)	1084 (89%)	135 (11%)	6 24
1	F	1224/1527 (80%)	1089 (89%)	135 (11%)	6 24
2	G	1752/1752 (100%)	1538 (88%)	214 (12%)	5 20
2	H	1752/1752 (100%)	1539 (88%)	213 (12%)	5 20
2	I	1752/1752 (100%)	1537 (88%)	215 (12%)	4 20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	J	1752/1752 (100%)	1540 (88%)	212 (12%)	5 20
2	K	1752/1752 (100%)	1537 (88%)	215 (12%)	4 20
2	L	1752/1752 (100%)	1538 (88%)	214 (12%)	5 20
All	All	17856/19674 (91%)	15764 (88%)	2092 (12%)	5 22

All (2092) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	12	THR
1	A	14	LEU
1	A	21	GLN
1	A	27	ARG
1	A	60	THR
1	A	82	CYS
1	A	92	VAL
1	A	335	LEU
1	A	342	ILE
1	A	359	VAL
1	A	361	SER
1	A	382	ILE
1	A	387	ILE
1	A	414	TYR
1	A	424	VAL
1	A	427	ARG
1	A	444	LEU
1	A	448	MET
1	A	449	GLN
1	A	452	ILE
1	A	457	THR
1	A	486	VAL
1	A	494	THR
1	A	499	THR
1	A	532	ILE
1	A	536	SER
1	A	537	ASN
1	A	552	ILE
1	A	557	ARG
1	A	562	SER
1	A	570	TYR
1	A	623	PHE
1	A	628	TYR

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Mol	Chain	Res	Type
1	A	656	LEU
1	A	680	VAL
1	A	684	THR
1	A	688	SER
1	A	709	LEU
1	A	712	VAL
1	A	715	ASN
1	A	725	LEU
1	A	732	THR
1	A	736	LEU
1	A	751	GLU
1	A	754	ARG
1	A	770	MET
1	A	772	THR
1	A	783	THR
1	A	793	ARG
1	A	799	LEU
1	A	811	ASP
1	A	813	LEU
1	A	815	SER
1	A	817	SER
1	A	837	LEU
1	A	843	VAL
1	A	848	ARG
1	A	856	ASN
1	A	874	GLN
1	A	883	LEU
1	A	908	ILE
1	A	919	ARG
1	A	921	GLU
1	A	946	GLU
1	A	954	ARG
1	A	970	LEU
1	A	977	ILE
1	A	988	VAL
1	A	995	VAL
1	A	999	LEU
1	A	1042	LEU
1	A	1051	VAL
1	A	1055	THR
1	A	1064	VAL
1	A	1072	ILE

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Mol	Chain	Res	Type
1	A	1079	ARG
1	A	1093	ARG
1	A	1102	ILE
1	A	1131	GLU
1	A	1134	GLU
1	A	1147	THR
1	A	1160	VAL
1	A	1183	VAL
1	A	1186	VAL
1	A	1213	VAL
1	A	1226	VAL
1	A	1232	LEU
1	A	1241	LEU
1	A	1304	VAL
1	A	1313	GLU
1	A	1324	THR
1	A	1340	MET
1	A	1342	ARG
1	A	1344	THR
1	A	1347	THR
1	A	1353	GLU
1	A	1360	GLN
1	A	1361	VAL
1	A	1367	LEU
1	A	1381	MET
1	A	1387	ASP
1	A	1400	VAL
1	A	1401	LEU
1	A	1422	ARG
1	A	1426	GLU
1	A	1432	ILE
1	A	1437	GLU
1	A	1441	LEU
1	A	1455	SER
1	A	1456	GLU
1	A	1457	GLU
1	A	1473	HIS
1	A	1482	GLU
1	A	1487	THR
1	A	1491	ASN
1	A	1504	ARG
1	A	1514	ILE

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Mol	Chain	Res	Type
1	A	1519	VAL
1	A	1527	THR
1	A	1528	VAL
1	A	1534	GLU
1	A	1538	ILE
1	A	1539	CYS
1	A	1561	LEU
1	A	1564	HIS
1	A	1602	PHE
1	A	1606	VAL
1	A	1610	ARG
1	A	1617	ILE
1	A	1623	THR
1	A	1646	LEU
1	A	1673	LEU
1	A	1678	LEU
1	A	1702	ARG
1	A	1703	VAL
1	B	12	THR
1	B	14	LEU
1	B	21	GLN
1	B	27	ARG
1	B	60	THR
1	B	82	CYS
1	B	335	LEU
1	B	342	ILE
1	B	359	VAL
1	B	361	SER
1	B	382	ILE
1	B	387	ILE
1	B	414	TYR
1	B	424	VAL
1	B	427	ARG
1	B	444	LEU
1	B	448	MET
1	B	449	GLN
1	B	452	ILE
1	B	457	THR
1	B	486	VAL
1	B	494	THR
1	B	499	THR
1	B	547	SER

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Mol	Chain	Res	Type
1	B	551	LEU
1	B	557	ARG
1	B	567	ASN
1	B	574	ILE
1	B	586	GLN
1	B	623	PHE
1	B	628	TYR
1	B	680	VAL
1	B	688	SER
1	B	698	ILE
1	B	709	LEU
1	B	712	VAL
1	B	715	ASN
1	B	725	LEU
1	B	732	THR
1	B	736	LEU
1	B	751	GLU
1	B	754	ARG
1	B	770	MET
1	B	772	THR
1	B	783	THR
1	B	793	ARG
1	B	799	LEU
1	B	811	ASP
1	B	813	LEU
1	B	815	SER
1	B	817	SER
1	B	837	LEU
1	B	843	VAL
1	B	848	ARG
1	B	856	ASN
1	B	874	GLN
1	B	883	LEU
1	B	908	ILE
1	B	919	ARG
1	B	921	GLU
1	B	946	GLU
1	B	954	ARG
1	B	955	VAL
1	B	970	LEU
1	B	977	ILE
1	B	988	VAL

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Mol	Chain	Res	Type
1	B	995	VAL
1	B	999	LEU
1	B	1042	LEU
1	B	1051	VAL
1	B	1064	VAL
1	B	1072	ILE
1	B	1079	ARG
1	B	1093	ARG
1	B	1131	GLU
1	B	1134	GLU
1	B	1142	LEU
1	B	1160	VAL
1	B	1183	VAL
1	B	1186	VAL
1	B	1213	VAL
1	B	1226	VAL
1	B	1232	LEU
1	B	1241	LEU
1	B	1313	GLU
1	B	1324	THR
1	B	1340	MET
1	B	1342	ARG
1	B	1344	THR
1	B	1347	THR
1	B	1353	GLU
1	B	1360	GLN
1	B	1361	VAL
1	B	1367	LEU
1	B	1381	MET
1	B	1387	ASP
1	B	1400	VAL
1	B	1401	LEU
1	B	1422	ARG
1	B	1426	GLU
1	B	1432	ILE
1	B	1437	GLU
1	B	1441	LEU
1	B	1455	SER
1	B	1456	GLU
1	B	1457	GLU
1	B	1482	GLU
1	B	1487	THR

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Mol	Chain	Res	Type
1	B	1491	ASN
1	B	1504	ARG
1	B	1514	ILE
1	B	1519	VAL
1	B	1527	THR
1	B	1528	VAL
1	B	1534	GLU
1	B	1538	ILE
1	B	1539	CYS
1	B	1554	LEU
1	B	1561	LEU
1	B	1564	HIS
1	B	1602	PHE
1	B	1606	VAL
1	B	1610	ARG
1	B	1617	ILE
1	B	1623	THR
1	B	1646	LEU
1	B	1673	LEU
1	B	1678	LEU
1	B	1702	ARG
1	B	1703	VAL
1	C	12	THR
1	C	14	LEU
1	C	21	GLN
1	C	27	ARG
1	C	60	THR
1	C	82	CYS
1	C	335	LEU
1	C	342	ILE
1	C	359	VAL
1	C	361	SER
1	C	382	ILE
1	C	387	ILE
1	C	414	TYR
1	C	418	ILE
1	C	424	VAL
1	C	427	ARG
1	C	444	LEU
1	C	448	MET
1	C	449	GLN
1	C	452	ILE

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Mol	Chain	Res	Type
1	C	457	THR
1	C	486	VAL
1	C	494	THR
1	C	499	THR
1	C	515	SER
1	C	536	SER
1	C	547	SER
1	C	551	LEU
1	C	557	ARG
1	C	567	ASN
1	C	574	ILE
1	C	623	PHE
1	C	628	TYR
1	C	680	VAL
1	C	688	SER
1	C	698	ILE
1	C	709	LEU
1	C	712	VAL
1	C	715	ASN
1	C	725	LEU
1	C	732	THR
1	C	736	LEU
1	C	751	GLU
1	C	754	ARG
1	C	770	MET
1	C	772	THR
1	C	783	THR
1	C	793	ARG
1	C	799	LEU
1	C	811	ASP
1	C	813	LEU
1	C	815	SER
1	C	817	SER
1	C	837	LEU
1	C	843	VAL
1	C	848	ARG
1	C	856	ASN
1	C	874	GLN
1	C	883	LEU
1	C	908	ILE
1	C	915	MET
1	C	919	ARG

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Mol	Chain	Res	Type
1	C	921	GLU
1	C	946	GLU
1	C	954	ARG
1	C	970	LEU
1	C	977	ILE
1	C	988	VAL
1	C	995	VAL
1	C	999	LEU
1	C	1042	LEU
1	C	1051	VAL
1	C	1055	THR
1	C	1064	VAL
1	C	1072	ILE
1	C	1079	ARG
1	C	1093	ARG
1	C	1131	GLU
1	C	1134	GLU
1	C	1142	LEU
1	C	1147	THR
1	C	1160	VAL
1	C	1183	VAL
1	C	1186	VAL
1	C	1213	VAL
1	C	1226	VAL
1	C	1232	LEU
1	C	1241	LEU
1	C	1267	LEU
1	C	1304	VAL
1	C	1313	GLU
1	C	1324	THR
1	C	1340	MET
1	C	1342	ARG
1	C	1344	THR
1	C	1347	THR
1	C	1353	GLU
1	C	1360	GLN
1	C	1361	VAL
1	C	1367	LEU
1	C	1381	MET
1	C	1400	VAL
1	C	1401	LEU
1	C	1422	ARG

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Mol	Chain	Res	Type
1	C	1426	GLU
1	C	1432	ILE
1	C	1437	GLU
1	C	1441	LEU
1	C	1455	SER
1	C	1456	GLU
1	C	1457	GLU
1	C	1482	GLU
1	C	1487	THR
1	C	1491	ASN
1	C	1504	ARG
1	C	1514	ILE
1	C	1519	VAL
1	C	1527	THR
1	C	1528	VAL
1	C	1534	GLU
1	C	1538	ILE
1	C	1539	CYS
1	C	1554	LEU
1	C	1561	LEU
1	C	1564	HIS
1	C	1602	PHE
1	C	1606	VAL
1	C	1610	ARG
1	C	1617	ILE
1	C	1623	THR
1	C	1646	LEU
1	C	1673	LEU
1	C	1678	LEU
1	C	1702	ARG
1	C	1703	VAL
1	C	1707	SER
1	D	12	THR
1	D	14	LEU
1	D	21	GLN
1	D	27	ARG
1	D	60	THR
1	D	82	CYS
1	D	335	LEU
1	D	342	ILE
1	D	359	VAL
1	D	361	SER

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Mol	Chain	Res	Type
1	D	382	ILE
1	D	387	ILE
1	D	414	TYR
1	D	424	VAL
1	D	427	ARG
1	D	444	LEU
1	D	448	MET
1	D	449	GLN
1	D	452	ILE
1	D	457	THR
1	D	486	VAL
1	D	494	THR
1	D	499	THR
1	D	532	ILE
1	D	536	SER
1	D	537	ASN
1	D	552	ILE
1	D	557	ARG
1	D	562	SER
1	D	570	TYR
1	D	579	MET
1	D	581	GLU
1	D	584	ILE
1	D	623	PHE
1	D	628	TYR
1	D	680	VAL
1	D	688	SER
1	D	698	ILE
1	D	709	LEU
1	D	712	VAL
1	D	715	ASN
1	D	725	LEU
1	D	732	THR
1	D	736	LEU
1	D	751	GLU
1	D	754	ARG
1	D	770	MET
1	D	772	THR
1	D	783	THR
1	D	793	ARG
1	D	811	ASP
1	D	813	LEU

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Mol	Chain	Res	Type
1	D	815	SER
1	D	837	LEU
1	D	843	VAL
1	D	848	ARG
1	D	856	ASN
1	D	874	GLN
1	D	883	LEU
1	D	908	ILE
1	D	915	MET
1	D	918	LEU
1	D	919	ARG
1	D	921	GLU
1	D	946	GLU
1	D	954	ARG
1	D	955	VAL
1	D	970	LEU
1	D	977	ILE
1	D	988	VAL
1	D	995	VAL
1	D	999	LEU
1	D	1042	LEU
1	D	1051	VAL
1	D	1064	VAL
1	D	1072	ILE
1	D	1079	ARG
1	D	1093	ARG
1	D	1102	ILE
1	D	1131	GLU
1	D	1134	GLU
1	D	1160	VAL
1	D	1183	VAL
1	D	1186	VAL
1	D	1198	LEU
1	D	1213	VAL
1	D	1226	VAL
1	D	1232	LEU
1	D	1241	LEU
1	D	1267	LEU
1	D	1304	VAL
1	D	1313	GLU
1	D	1324	THR
1	D	1340	MET

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Mol	Chain	Res	Type
1	D	1342	ARG
1	D	1344	THR
1	D	1347	THR
1	D	1353	GLU
1	D	1360	GLN
1	D	1361	VAL
1	D	1367	LEU
1	D	1381	MET
1	D	1387	ASP
1	D	1400	VAL
1	D	1401	LEU
1	D	1422	ARG
1	D	1426	GLU
1	D	1432	ILE
1	D	1437	GLU
1	D	1441	LEU
1	D	1443	LEU
1	D	1455	SER
1	D	1456	GLU
1	D	1457	GLU
1	D	1473	HIS
1	D	1482	GLU
1	D	1487	THR
1	D	1491	ASN
1	D	1504	ARG
1	D	1514	ILE
1	D	1527	THR
1	D	1528	VAL
1	D	1534	GLU
1	D	1538	ILE
1	D	1554	LEU
1	D	1561	LEU
1	D	1564	HIS
1	D	1602	PHE
1	D	1606	VAL
1	D	1610	ARG
1	D	1617	ILE
1	D	1623	THR
1	D	1646	LEU
1	D	1673	LEU
1	D	1678	LEU
1	D	1702	ARG

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Mol	Chain	Res	Type
1	D	1703	VAL
1	D	1708	ASN
1	E	12	THR
1	E	14	LEU
1	E	21	GLN
1	E	27	ARG
1	E	60	THR
1	E	82	CYS
1	E	335	LEU
1	E	342	ILE
1	E	359	VAL
1	E	361	SER
1	E	382	ILE
1	E	387	ILE
1	E	414	TYR
1	E	424	VAL
1	E	427	ARG
1	E	443	LEU
1	E	444	LEU
1	E	448	MET
1	E	449	GLN
1	E	452	ILE
1	E	457	THR
1	E	486	VAL
1	E	494	THR
1	E	499	THR
1	E	532	ILE
1	E	536	SER
1	E	537	ASN
1	E	552	ILE
1	E	557	ARG
1	E	562	SER
1	E	570	TYR
1	E	623	PHE
1	E	656	LEU
1	E	680	VAL
1	E	684	THR
1	E	688	SER
1	E	698	ILE
1	E	709	LEU
1	E	712	VAL
1	E	715	ASN

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Mol	Chain	Res	Type
1	E	725	LEU
1	E	732	THR
1	E	736	LEU
1	E	751	GLU
1	E	754	ARG
1	E	770	MET
1	E	772	THR
1	E	783	THR
1	E	793	ARG
1	E	799	LEU
1	E	811	ASP
1	E	813	LEU
1	E	815	SER
1	E	817	SER
1	E	837	LEU
1	E	843	VAL
1	E	848	ARG
1	E	856	ASN
1	E	874	GLN
1	E	883	LEU
1	E	908	ILE
1	E	915	MET
1	E	919	ARG
1	E	921	GLU
1	E	946	GLU
1	E	954	ARG
1	E	955	VAL
1	E	970	LEU
1	E	977	ILE
1	E	988	VAL
1	E	995	VAL
1	E	999	LEU
1	E	1042	LEU
1	E	1051	VAL
1	E	1064	VAL
1	E	1072	ILE
1	E	1079	ARG
1	E	1093	ARG
1	E	1131	GLU
1	E	1134	GLU
1	E	1142	LEU
1	E	1147	THR

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Mol	Chain	Res	Type
1	E	1160	VAL
1	E	1183	VAL
1	E	1186	VAL
1	E	1213	VAL
1	E	1226	VAL
1	E	1232	LEU
1	E	1241	LEU
1	E	1304	VAL
1	E	1313	GLU
1	E	1324	THR
1	E	1340	MET
1	E	1342	ARG
1	E	1344	THR
1	E	1347	THR
1	E	1353	GLU
1	E	1360	GLN
1	E	1361	VAL
1	E	1367	LEU
1	E	1381	MET
1	E	1400	VAL
1	E	1401	LEU
1	E	1422	ARG
1	E	1426	GLU
1	E	1432	ILE
1	E	1437	GLU
1	E	1441	LEU
1	E	1455	SER
1	E	1456	GLU
1	E	1457	GLU
1	E	1482	GLU
1	E	1487	THR
1	E	1491	ASN
1	E	1504	ARG
1	E	1514	ILE
1	E	1527	THR
1	E	1528	VAL
1	E	1534	GLU
1	E	1538	ILE
1	E	1539	CYS
1	E	1554	LEU
1	E	1561	LEU
1	E	1564	HIS

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Mol	Chain	Res	Type
1	E	1602	PHE
1	E	1606	VAL
1	E	1610	ARG
1	E	1617	ILE
1	E	1623	THR
1	E	1646	LEU
1	E	1673	LEU
1	E	1678	LEU
1	E	1702	ARG
1	E	1703	VAL
1	E	1708	ASN
1	F	12	THR
1	F	14	LEU
1	F	21	GLN
1	F	27	ARG
1	F	82	CYS
1	F	335	LEU
1	F	342	ILE
1	F	359	VAL
1	F	361	SER
1	F	382	ILE
1	F	387	ILE
1	F	414	TYR
1	F	424	VAL
1	F	427	ARG
1	F	444	LEU
1	F	448	MET
1	F	449	GLN
1	F	452	ILE
1	F	457	THR
1	F	486	VAL
1	F	494	THR
1	F	499	THR
1	F	515	SER
1	F	547	SER
1	F	551	LEU
1	F	557	ARG
1	F	567	ASN
1	F	574	ILE
1	F	612	ILE
1	F	613	PRO
1	F	623	PHE

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Mol	Chain	Res	Type
1	F	628	TYR
1	F	680	VAL
1	F	684	THR
1	F	688	SER
1	F	709	LEU
1	F	712	VAL
1	F	715	ASN
1	F	725	LEU
1	F	732	THR
1	F	736	LEU
1	F	751	GLU
1	F	754	ARG
1	F	770	MET
1	F	772	THR
1	F	783	THR
1	F	793	ARG
1	F	799	LEU
1	F	811	ASP
1	F	813	LEU
1	F	815	SER
1	F	817	SER
1	F	837	LEU
1	F	843	VAL
1	F	848	ARG
1	F	856	ASN
1	F	874	GLN
1	F	883	LEU
1	F	908	ILE
1	F	915	MET
1	F	919	ARG
1	F	921	GLU
1	F	946	GLU
1	F	954	ARG
1	F	955	VAL
1	F	970	LEU
1	F	977	ILE
1	F	988	VAL
1	F	995	VAL
1	F	999	LEU
1	F	1042	LEU
1	F	1051	VAL
1	F	1064	VAL

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Mol	Chain	Res	Type
1	F	1071	TYR
1	F	1072	ILE
1	F	1079	ARG
1	F	1093	ARG
1	F	1131	GLU
1	F	1134	GLU
1	F	1142	LEU
1	F	1147	THR
1	F	1160	VAL
1	F	1183	VAL
1	F	1186	VAL
1	F	1194	VAL
1	F	1198	LEU
1	F	1213	VAL
1	F	1226	VAL
1	F	1232	LEU
1	F	1241	LEU
1	F	1304	VAL
1	F	1313	GLU
1	F	1324	THR
1	F	1340	MET
1	F	1342	ARG
1	F	1344	THR
1	F	1347	THR
1	F	1353	GLU
1	F	1360	GLN
1	F	1361	VAL
1	F	1367	LEU
1	F	1400	VAL
1	F	1401	LEU
1	F	1422	ARG
1	F	1426	GLU
1	F	1432	ILE
1	F	1437	GLU
1	F	1441	LEU
1	F	1455	SER
1	F	1456	GLU
1	F	1457	GLU
1	F	1482	GLU
1	F	1487	THR
1	F	1491	ASN
1	F	1504	ARG

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Mol	Chain	Res	Type
1	F	1514	ILE
1	F	1519	VAL
1	F	1527	THR
1	F	1528	VAL
1	F	1534	GLU
1	F	1538	ILE
1	F	1539	CYS
1	F	1561	LEU
1	F	1564	HIS
1	F	1602	PHE
1	F	1606	VAL
1	F	1610	ARG
1	F	1617	ILE
1	F	1623	THR
1	F	1646	LEU
1	F	1673	LEU
1	F	1678	LEU
1	F	1702	ARG
1	F	1703	VAL
1	F	1707	SER
2	G	25	VAL
2	G	27	THR
2	G	30	SER
2	G	31	LEU
2	G	70	SER
2	G	86	GLU
2	G	102	LEU
2	G	119	VAL
2	G	122	ILE
2	G	129	ILE
2	G	134	ILE
2	G	158	LEU
2	G	167	VAL
2	G	168	LYS
2	G	171	SER
2	G	197	VAL
2	G	201	ILE
2	G	215	TRP
2	G	220	GLN
2	G	225	LEU
2	G	235	GLU
2	G	239	ASP

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Mol	Chain	Res	Type
2	G	252	LEU
2	G	253	ILE
2	G	256	VAL
2	G	262	MET
2	G	264	THR
2	G	275	LEU
2	G	289	ILE
2	G	297	THR
2	G	331	LEU
2	G	334	SER
2	G	340	VAL
2	G	346	THR
2	G	372	LEU
2	G	382	LEU
2	G	388	ASN
2	G	401	LEU
2	G	412	THR
2	G	419	ILE
2	G	436	THR
2	G	451	ILE
2	G	457	ASP
2	G	459	LYS
2	G	467	ILE
2	G	472	THR
2	G	474	THR
2	G	476	GLN
2	G	494	ILE
2	G	522	SER
2	G	526	VAL
2	G	583	THR
2	G	597	LEU
2	G	600	VAL
2	G	604	MET
2	G	609	THR
2	G	616	ASP
2	G	636	TYR
2	G	645	ILE
2	G	652	ILE
2	G	663	ILE
2	G	685	VAL
2	G	690	LEU
2	G	709	LEU

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Mol	Chain	Res	Type
2	G	734	ASN
2	G	739	ILE
2	G	747	ARG
2	G	792	LEU
2	G	818	THR
2	G	820	LYS
2	G	821	GLU
2	G	839	ASP
2	G	842	GLN
2	G	843	TRP
2	G	845	ASN
2	G	846	THR
2	G	855	ILE
2	G	856	THR
2	G	857	VAL
2	G	868	LEU
2	G	870	THR
2	G	876	TRP
2	G	878	GLU
2	G	881	ASP
2	G	883	ILE
2	G	903	ILE
2	G	904	LYS
2	G	906	LEU
2	G	913	VAL
2	G	918	ASN
2	G	924	VAL
2	G	935	VAL
2	G	939	VAL
2	G	941	LEU
2	G	944	VAL
2	G	964	ARG
2	G	971	THR
2	G	979	LEU
2	G	988	GLU
2	G	1002	GLU
2	G	1004	SER
2	G	1005	THR
2	G	1007	LEU
2	G	1008	ILE
2	G	1009	ASN
2	G	1017	LEU

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Mol	Chain	Res	Type
2	G	1022	ARG
2	G	1028	VAL
2	G	1036	GLU
2	G	1049	GLN
2	G	1050	SER
2	G	1051	GLU
2	G	1053	ILE
2	G	1061	VAL
2	G	1065	CYS
2	G	1066	ILE
2	G	1081	GLU
2	G	1100	ARG
2	G	1108	GLU
2	G	1113	ILE
2	G	1133	LEU
2	G	1137	ARG
2	G	1138	ASP
2	G	1153	ASN
2	G	1172	ARG
2	G	1179	GLU
2	G	1206	ILE
2	G	1207	THR
2	G	1216	VAL
2	G	1217	ILE
2	G	1223	SER
2	G	1228	LEU
2	G	1239	ASP
2	G	1250	ARG
2	G	1259	LEU
2	G	1266	HIS
2	G	1294	PHE
2	G	1305	LEU
2	G	1309	PHE
2	G	1315	ILE
2	G	1338	ARG
2	G	1350	ILE
2	G	1351	VAL
2	G	1357	ILE
2	G	1364	ARG
2	G	1382	MET
2	G	1383	VAL
2	G	1391	VAL

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Mol	Chain	Res	Type
2	G	1400	GLN
2	G	1405	ILE
2	G	1409	SER
2	G	1418	THR
2	G	1421	ARG
2	G	1426	VAL
2	G	1438	VAL
2	G	1452	VAL
2	G	1467	LEU
2	G	1468	ARG
2	G	1471	GLU
2	G	1477	ASP
2	G	1483	LEU
2	G	1487	THR
2	G	1496	VAL
2	G	1499	LYS
2	G	1517	LEU
2	G	1522	ILE
2	G	1523	ILE
2	G	1525	VAL
2	G	1551	ILE
2	G	1563	LEU
2	G	1583	VAL
2	G	1593	SER
2	G	1594	ARG
2	G	1605	THR
2	G	1610	MET
2	G	1616	VAL
2	G	1622	THR
2	G	1632	VAL
2	G	1639	MET
2	G	1640	VAL
2	G	1643	VAL
2	G	1649	ILE
2	G	1708	LEU
2	G	1740	ASN
2	G	1745	LEU
2	G	1746	THR
2	G	1747	VAL
2	G	1767	GLU
2	G	1777	THR
2	G	1785	ASP

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Mol	Chain	Res	Type
2	G	1804	GLN
2	G	1813	MET
2	G	1824	LYS
2	G	1829	ARG
2	G	1832	THR
2	G	1854	GLU
2	G	1866	THR
2	G	1873	ARG
2	G	1900	LEU
2	G	1962	LEU
2	G	1965	VAL
2	G	1972	ILE
2	G	1974	GLN
2	G	1977	ARG
2	G	1999	ARG
2	G	2010	LEU
2	G	2031	ASP
2	G	2035	LEU
2	G	2052	LYS
2	G	2053	GLU
2	G	2062	THR
2	G	2064	SER
2	G	2067	ILE
2	G	2069	ASN
2	H	25	VAL
2	H	27	THR
2	H	30	SER
2	H	31	LEU
2	H	70	SER
2	H	86	GLU
2	H	102	LEU
2	H	119	VAL
2	H	122	ILE
2	H	129	ILE
2	H	134	ILE
2	H	158	LEU
2	H	167	VAL
2	H	168	LYS
2	H	171	SER
2	H	197	VAL
2	H	201	ILE
2	H	215	TRP

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Mol	Chain	Res	Type
2	H	220	GLN
2	H	225	LEU
2	H	235	GLU
2	H	239	ASP
2	H	252	LEU
2	H	253	ILE
2	H	262	MET
2	H	264	THR
2	H	275	LEU
2	H	289	ILE
2	H	297	THR
2	H	331	LEU
2	H	334	SER
2	H	340	VAL
2	H	346	THR
2	H	372	LEU
2	H	382	LEU
2	H	388	ASN
2	H	392	THR
2	H	401	LEU
2	H	412	THR
2	H	419	ILE
2	H	436	THR
2	H	451	ILE
2	H	457	ASP
2	H	459	LYS
2	H	467	ILE
2	H	472	THR
2	H	474	THR
2	H	476	GLN
2	H	494	ILE
2	H	522	SER
2	H	526	VAL
2	H	583	THR
2	H	597	LEU
2	H	600	VAL
2	H	604	MET
2	H	609	THR
2	H	616	ASP
2	H	636	TYR
2	H	645	ILE
2	H	652	ILE

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Mol	Chain	Res	Type
2	H	663	ILE
2	H	685	VAL
2	H	690	LEU
2	H	709	LEU
2	H	734	ASN
2	H	739	ILE
2	H	747	ARG
2	H	792	LEU
2	H	820	LYS
2	H	821	GLU
2	H	827	GLN
2	H	839	ASP
2	H	842	GLN
2	H	843	TRP
2	H	845	ASN
2	H	846	THR
2	H	855	ILE
2	H	856	THR
2	H	857	VAL
2	H	868	LEU
2	H	870	THR
2	H	876	TRP
2	H	878	GLU
2	H	881	ASP
2	H	903	ILE
2	H	904	LYS
2	H	906	LEU
2	H	913	VAL
2	H	918	ASN
2	H	924	VAL
2	H	935	VAL
2	H	939	VAL
2	H	941	LEU
2	H	944	VAL
2	H	964	ARG
2	H	971	THR
2	H	979	LEU
2	H	988	GLU
2	H	1002	GLU
2	H	1004	SER
2	H	1005	THR
2	H	1007	LEU

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Mol	Chain	Res	Type
2	H	1008	ILE
2	H	1009	ASN
2	H	1017	LEU
2	H	1022	ARG
2	H	1028	VAL
2	H	1036	GLU
2	H	1049	GLN
2	H	1050	SER
2	H	1051	GLU
2	H	1053	ILE
2	H	1061	VAL
2	H	1065	CYS
2	H	1081	GLU
2	H	1100	ARG
2	H	1108	GLU
2	H	1113	ILE
2	H	1133	LEU
2	H	1137	ARG
2	H	1138	ASP
2	H	1153	ASN
2	H	1172	ARG
2	H	1179	GLU
2	H	1206	ILE
2	H	1207	THR
2	H	1216	VAL
2	H	1217	ILE
2	H	1223	SER
2	H	1228	LEU
2	H	1239	ASP
2	H	1250	ARG
2	H	1259	LEU
2	H	1266	HIS
2	H	1294	PHE
2	H	1305	LEU
2	H	1309	PHE
2	H	1315	ILE
2	H	1338	ARG
2	H	1350	ILE
2	H	1351	VAL
2	H	1357	ILE
2	H	1364	ARG
2	H	1380	TYR

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Mol	Chain	Res	Type
2	H	1382	MET
2	H	1383	VAL
2	H	1391	VAL
2	H	1400	GLN
2	H	1405	ILE
2	H	1409	SER
2	H	1418	THR
2	H	1421	ARG
2	H	1426	VAL
2	H	1438	VAL
2	H	1452	VAL
2	H	1467	LEU
2	H	1468	ARG
2	H	1471	GLU
2	H	1477	ASP
2	H	1483	LEU
2	H	1487	THR
2	H	1496	VAL
2	H	1499	LYS
2	H	1517	LEU
2	H	1522	ILE
2	H	1523	ILE
2	H	1525	VAL
2	H	1551	ILE
2	H	1557	PHE
2	H	1563	LEU
2	H	1583	VAL
2	H	1593	SER
2	H	1594	ARG
2	H	1605	THR
2	H	1610	MET
2	H	1616	VAL
2	H	1622	THR
2	H	1639	MET
2	H	1640	VAL
2	H	1643	VAL
2	H	1649	ILE
2	H	1655	HIS
2	H	1708	LEU
2	H	1740	ASN
2	H	1745	LEU
2	H	1746	THR

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Mol	Chain	Res	Type
2	H	1747	VAL
2	H	1767	GLU
2	H	1777	THR
2	H	1785	ASP
2	H	1813	MET
2	H	1824	LYS
2	H	1829	ARG
2	H	1832	THR
2	H	1854	GLU
2	H	1866	THR
2	H	1873	ARG
2	H	1900	LEU
2	H	1962	LEU
2	H	1965	VAL
2	H	1972	ILE
2	H	1974	GLN
2	H	1977	ARG
2	H	1999	ARG
2	H	2010	LEU
2	H	2031	ASP
2	H	2035	LEU
2	H	2052	LYS
2	H	2053	GLU
2	H	2062	THR
2	H	2064	SER
2	H	2067	ILE
2	H	2069	ASN
2	I	25	VAL
2	I	27	THR
2	I	30	SER
2	I	31	LEU
2	I	70	SER
2	I	86	GLU
2	I	102	LEU
2	I	119	VAL
2	I	122	ILE
2	I	129	ILE
2	I	134	ILE
2	I	158	LEU
2	I	167	VAL
2	I	168	LYS
2	I	171	SER

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Mol	Chain	Res	Type
2	I	197	VAL
2	I	215	TRP
2	I	220	GLN
2	I	225	LEU
2	I	235	GLU
2	I	239	ASP
2	I	252	LEU
2	I	253	ILE
2	I	262	MET
2	I	264	THR
2	I	275	LEU
2	I	289	ILE
2	I	297	THR
2	I	331	LEU
2	I	334	SER
2	I	339	SER
2	I	340	VAL
2	I	346	THR
2	I	372	LEU
2	I	382	LEU
2	I	388	ASN
2	I	392	THR
2	I	401	LEU
2	I	412	THR
2	I	419	ILE
2	I	436	THR
2	I	451	ILE
2	I	457	ASP
2	I	459	LYS
2	I	467	ILE
2	I	472	THR
2	I	474	THR
2	I	476	GLN
2	I	494	ILE
2	I	522	SER
2	I	526	VAL
2	I	583	THR
2	I	597	LEU
2	I	600	VAL
2	I	604	MET
2	I	609	THR
2	I	616	ASP

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Mol	Chain	Res	Type
2	I	636	TYR
2	I	645	ILE
2	I	652	ILE
2	I	663	ILE
2	I	676	LEU
2	I	685	VAL
2	I	690	LEU
2	I	709	LEU
2	I	734	ASN
2	I	739	ILE
2	I	747	ARG
2	I	792	LEU
2	I	820	LYS
2	I	821	GLU
2	I	827	GLN
2	I	839	ASP
2	I	842	GLN
2	I	843	TRP
2	I	845	ASN
2	I	846	THR
2	I	855	ILE
2	I	856	THR
2	I	857	VAL
2	I	868	LEU
2	I	870	THR
2	I	876	TRP
2	I	878	GLU
2	I	903	ILE
2	I	904	LYS
2	I	906	LEU
2	I	913	VAL
2	I	918	ASN
2	I	924	VAL
2	I	935	VAL
2	I	939	VAL
2	I	941	LEU
2	I	944	VAL
2	I	964	ARG
2	I	971	THR
2	I	979	LEU
2	I	988	GLU
2	I	993	VAL

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Mol	Chain	Res	Type
2	I	1002	GLU
2	I	1004	SER
2	I	1005	THR
2	I	1007	LEU
2	I	1008	ILE
2	I	1009	ASN
2	I	1017	LEU
2	I	1022	ARG
2	I	1028	VAL
2	I	1036	GLU
2	I	1049	GLN
2	I	1050	SER
2	I	1051	GLU
2	I	1053	ILE
2	I	1061	VAL
2	I	1065	CYS
2	I	1081	GLU
2	I	1100	ARG
2	I	1108	GLU
2	I	1113	ILE
2	I	1130	ILE
2	I	1133	LEU
2	I	1137	ARG
2	I	1138	ASP
2	I	1153	ASN
2	I	1172	ARG
2	I	1179	GLU
2	I	1206	ILE
2	I	1207	THR
2	I	1216	VAL
2	I	1217	ILE
2	I	1223	SER
2	I	1228	LEU
2	I	1239	ASP
2	I	1250	ARG
2	I	1259	LEU
2	I	1266	HIS
2	I	1294	PHE
2	I	1305	LEU
2	I	1315	ILE
2	I	1338	ARG
2	I	1350	ILE

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Mol	Chain	Res	Type
2	I	1351	VAL
2	I	1357	ILE
2	I	1364	ARG
2	I	1382	MET
2	I	1383	VAL
2	I	1391	VAL
2	I	1400	GLN
2	I	1405	ILE
2	I	1409	SER
2	I	1418	THR
2	I	1421	ARG
2	I	1426	VAL
2	I	1438	VAL
2	I	1452	VAL
2	I	1467	LEU
2	I	1468	ARG
2	I	1471	GLU
2	I	1477	ASP
2	I	1483	LEU
2	I	1487	THR
2	I	1496	VAL
2	I	1499	LYS
2	I	1522	ILE
2	I	1523	ILE
2	I	1525	VAL
2	I	1551	ILE
2	I	1557	PHE
2	I	1563	LEU
2	I	1583	VAL
2	I	1593	SER
2	I	1594	ARG
2	I	1605	THR
2	I	1610	MET
2	I	1616	VAL
2	I	1622	THR
2	I	1632	VAL
2	I	1639	MET
2	I	1640	VAL
2	I	1643	VAL
2	I	1649	ILE
2	I	1655	HIS
2	I	1708	LEU

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Mol	Chain	Res	Type
2	I	1740	ASN
2	I	1745	LEU
2	I	1746	THR
2	I	1747	VAL
2	I	1767	GLU
2	I	1777	THR
2	I	1785	ASP
2	I	1804	GLN
2	I	1813	MET
2	I	1824	LYS
2	I	1829	ARG
2	I	1832	THR
2	I	1854	GLU
2	I	1866	THR
2	I	1873	ARG
2	I	1900	LEU
2	I	1918	VAL
2	I	1962	LEU
2	I	1965	VAL
2	I	1972	ILE
2	I	1974	GLN
2	I	1977	ARG
2	I	1999	ARG
2	I	2010	LEU
2	I	2031	ASP
2	I	2035	LEU
2	I	2052	LYS
2	I	2053	GLU
2	I	2062	THR
2	I	2064	SER
2	I	2067	ILE
2	I	2069	ASN
2	J	25	VAL
2	J	27	THR
2	J	30	SER
2	J	31	LEU
2	J	70	SER
2	J	86	GLU
2	J	102	LEU
2	J	119	VAL
2	J	122	ILE
2	J	129	ILE

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Mol	Chain	Res	Type
2	J	134	ILE
2	J	158	LEU
2	J	167	VAL
2	J	168	LYS
2	J	171	SER
2	J	197	VAL
2	J	215	TRP
2	J	220	GLN
2	J	225	LEU
2	J	235	GLU
2	J	239	ASP
2	J	252	LEU
2	J	253	ILE
2	J	262	MET
2	J	264	THR
2	J	275	LEU
2	J	289	ILE
2	J	297	THR
2	J	331	LEU
2	J	334	SER
2	J	339	SER
2	J	340	VAL
2	J	346	THR
2	J	372	LEU
2	J	382	LEU
2	J	388	ASN
2	J	392	THR
2	J	401	LEU
2	J	412	THR
2	J	419	ILE
2	J	436	THR
2	J	451	ILE
2	J	457	ASP
2	J	459	LYS
2	J	467	ILE
2	J	472	THR
2	J	474	THR
2	J	494	ILE
2	J	522	SER
2	J	526	VAL
2	J	583	THR
2	J	597	LEU

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Mol	Chain	Res	Type
2	J	600	VAL
2	J	604	MET
2	J	609	THR
2	J	616	ASP
2	J	636	TYR
2	J	645	ILE
2	J	652	ILE
2	J	663	ILE
2	J	676	LEU
2	J	685	VAL
2	J	690	LEU
2	J	709	LEU
2	J	734	ASN
2	J	739	ILE
2	J	747	ARG
2	J	792	LEU
2	J	820	LYS
2	J	821	GLU
2	J	827	GLN
2	J	839	ASP
2	J	842	GLN
2	J	843	TRP
2	J	845	ASN
2	J	846	THR
2	J	855	ILE
2	J	856	THR
2	J	857	VAL
2	J	861	MET
2	J	868	LEU
2	J	870	THR
2	J	876	TRP
2	J	878	GLU
2	J	881	ASP
2	J	883	ILE
2	J	903	ILE
2	J	904	LYS
2	J	906	LEU
2	J	913	VAL
2	J	918	ASN
2	J	924	VAL
2	J	935	VAL
2	J	939	VAL

Continued on next page...

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Mol	Chain	Res	Type
2	J	941	LEU
2	J	944	VAL
2	J	964	ARG
2	J	971	THR
2	J	979	LEU
2	J	988	GLU
2	J	993	VAL
2	J	1002	GLU
2	J	1004	SER
2	J	1005	THR
2	J	1007	LEU
2	J	1008	ILE
2	J	1009	ASN
2	J	1017	LEU
2	J	1022	ARG
2	J	1028	VAL
2	J	1036	GLU
2	J	1049	GLN
2	J	1050	SER
2	J	1051	GLU
2	J	1053	ILE
2	J	1061	VAL
2	J	1065	CYS
2	J	1066	ILE
2	J	1081	GLU
2	J	1100	ARG
2	J	1108	GLU
2	J	1113	ILE
2	J	1130	ILE
2	J	1133	LEU
2	J	1137	ARG
2	J	1138	ASP
2	J	1153	ASN
2	J	1172	ARG
2	J	1179	GLU
2	J	1206	ILE
2	J	1207	THR
2	J	1216	VAL
2	J	1217	ILE
2	J	1223	SER
2	J	1228	LEU
2	J	1239	ASP

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Mol	Chain	Res	Type
2	J	1250	ARG
2	J	1259	LEU
2	J	1266	HIS
2	J	1294	PHE
2	J	1305	LEU
2	J	1315	ILE
2	J	1338	ARG
2	J	1350	ILE
2	J	1351	VAL
2	J	1357	ILE
2	J	1364	ARG
2	J	1382	MET
2	J	1383	VAL
2	J	1391	VAL
2	J	1400	GLN
2	J	1405	ILE
2	J	1409	SER
2	J	1418	THR
2	J	1421	ARG
2	J	1426	VAL
2	J	1438	VAL
2	J	1452	VAL
2	J	1467	LEU
2	J	1468	ARG
2	J	1471	GLU
2	J	1477	ASP
2	J	1483	LEU
2	J	1496	VAL
2	J	1499	LYS
2	J	1522	ILE
2	J	1523	ILE
2	J	1525	VAL
2	J	1551	ILE
2	J	1563	LEU
2	J	1583	VAL
2	J	1593	SER
2	J	1594	ARG
2	J	1605	THR
2	J	1610	MET
2	J	1616	VAL
2	J	1622	THR
2	J	1632	VAL

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Mol	Chain	Res	Type
2	J	1639	MET
2	J	1640	VAL
2	J	1643	VAL
2	J	1649	ILE
2	J	1708	LEU
2	J	1740	ASN
2	J	1745	LEU
2	J	1746	THR
2	J	1747	VAL
2	J	1767	GLU
2	J	1777	THR
2	J	1813	MET
2	J	1824	LYS
2	J	1829	ARG
2	J	1832	THR
2	J	1854	GLU
2	J	1866	THR
2	J	1873	ARG
2	J	1900	LEU
2	J	1962	LEU
2	J	1965	VAL
2	J	1972	ILE
2	J	1974	GLN
2	J	1977	ARG
2	J	1999	ARG
2	J	2010	LEU
2	J	2031	ASP
2	J	2035	LEU
2	J	2052	LYS
2	J	2053	GLU
2	J	2062	THR
2	J	2064	SER
2	J	2067	ILE
2	J	2069	ASN
2	K	25	VAL
2	K	27	THR
2	K	30	SER
2	K	31	LEU
2	K	70	SER
2	K	86	GLU
2	K	102	LEU
2	K	119	VAL

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Mol	Chain	Res	Type
2	K	122	ILE
2	K	129	ILE
2	K	158	LEU
2	K	167	VAL
2	K	168	LYS
2	K	171	SER
2	K	197	VAL
2	K	215	TRP
2	K	220	GLN
2	K	225	LEU
2	K	235	GLU
2	K	239	ASP
2	K	252	LEU
2	K	253	ILE
2	K	256	VAL
2	K	262	MET
2	K	264	THR
2	K	275	LEU
2	K	289	ILE
2	K	297	THR
2	K	331	LEU
2	K	334	SER
2	K	340	VAL
2	K	346	THR
2	K	372	LEU
2	K	382	LEU
2	K	388	ASN
2	K	401	LEU
2	K	412	THR
2	K	419	ILE
2	K	436	THR
2	K	451	ILE
2	K	457	ASP
2	K	459	LYS
2	K	467	ILE
2	K	472	THR
2	K	474	THR
2	K	476	GLN
2	K	494	ILE
2	K	522	SER
2	K	526	VAL
2	K	583	THR

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Mol	Chain	Res	Type
2	K	597	LEU
2	K	600	VAL
2	K	604	MET
2	K	609	THR
2	K	616	ASP
2	K	636	TYR
2	K	645	ILE
2	K	652	ILE
2	K	663	ILE
2	K	685	VAL
2	K	690	LEU
2	K	709	LEU
2	K	734	ASN
2	K	739	ILE
2	K	747	ARG
2	K	792	LEU
2	K	818	THR
2	K	820	LYS
2	K	821	GLU
2	K	827	GLN
2	K	839	ASP
2	K	842	GLN
2	K	843	TRP
2	K	845	ASN
2	K	846	THR
2	K	855	ILE
2	K	856	THR
2	K	857	VAL
2	K	868	LEU
2	K	870	THR
2	K	876	TRP
2	K	878	GLU
2	K	881	ASP
2	K	903	ILE
2	K	904	LYS
2	K	906	LEU
2	K	913	VAL
2	K	918	ASN
2	K	924	VAL
2	K	935	VAL
2	K	939	VAL
2	K	944	VAL

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Mol	Chain	Res	Type
2	K	951	ILE
2	K	964	ARG
2	K	971	THR
2	K	979	LEU
2	K	988	GLU
2	K	1002	GLU
2	K	1005	THR
2	K	1007	LEU
2	K	1008	ILE
2	K	1009	ASN
2	K	1017	LEU
2	K	1022	ARG
2	K	1028	VAL
2	K	1036	GLU
2	K	1049	GLN
2	K	1050	SER
2	K	1051	GLU
2	K	1053	ILE
2	K	1061	VAL
2	K	1065	CYS
2	K	1066	ILE
2	K	1081	GLU
2	K	1100	ARG
2	K	1108	GLU
2	K	1113	ILE
2	K	1133	LEU
2	K	1137	ARG
2	K	1138	ASP
2	K	1153	ASN
2	K	1172	ARG
2	K	1179	GLU
2	K	1206	ILE
2	K	1207	THR
2	K	1216	VAL
2	K	1217	ILE
2	K	1223	SER
2	K	1228	LEU
2	K	1239	ASP
2	K	1250	ARG
2	K	1259	LEU
2	K	1266	HIS
2	K	1294	PHE

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Mol	Chain	Res	Type
2	K	1305	LEU
2	K	1309	PHE
2	K	1315	ILE
2	K	1338	ARG
2	K	1350	ILE
2	K	1351	VAL
2	K	1357	ILE
2	K	1364	ARG
2	K	1382	MET
2	K	1383	VAL
2	K	1391	VAL
2	K	1400	GLN
2	K	1405	ILE
2	K	1409	SER
2	K	1413	VAL
2	K	1418	THR
2	K	1421	ARG
2	K	1426	VAL
2	K	1438	VAL
2	K	1452	VAL
2	K	1467	LEU
2	K	1468	ARG
2	K	1471	GLU
2	K	1477	ASP
2	K	1483	LEU
2	K	1487	THR
2	K	1496	VAL
2	K	1499	LYS
2	K	1517	LEU
2	K	1522	ILE
2	K	1523	ILE
2	K	1525	VAL
2	K	1551	ILE
2	K	1557	PHE
2	K	1563	LEU
2	K	1583	VAL
2	K	1593	SER
2	K	1594	ARG
2	K	1605	THR
2	K	1610	MET
2	K	1616	VAL
2	K	1622	THR

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Mol	Chain	Res	Type
2	K	1632	VAL
2	K	1639	MET
2	K	1640	VAL
2	K	1643	VAL
2	K	1649	ILE
2	K	1655	HIS
2	K	1708	LEU
2	K	1740	ASN
2	K	1745	LEU
2	K	1746	THR
2	K	1747	VAL
2	K	1767	GLU
2	K	1777	THR
2	K	1785	ASP
2	K	1789	THR
2	K	1804	GLN
2	K	1813	MET
2	K	1824	LYS
2	K	1829	ARG
2	K	1832	THR
2	K	1854	GLU
2	K	1866	THR
2	K	1873	ARG
2	K	1900	LEU
2	K	1962	LEU
2	K	1965	VAL
2	K	1972	ILE
2	K	1974	GLN
2	K	1977	ARG
2	K	1999	ARG
2	K	2010	LEU
2	K	2031	ASP
2	K	2035	LEU
2	K	2052	LYS
2	K	2053	GLU
2	K	2062	THR
2	K	2064	SER
2	K	2067	ILE
2	K	2069	ASN
2	L	25	VAL
2	L	27	THR
2	L	30	SER

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Mol	Chain	Res	Type
2	L	31	LEU
2	L	70	SER
2	L	86	GLU
2	L	102	LEU
2	L	119	VAL
2	L	122	ILE
2	L	129	ILE
2	L	134	ILE
2	L	158	LEU
2	L	167	VAL
2	L	168	LYS
2	L	171	SER
2	L	197	VAL
2	L	215	TRP
2	L	220	GLN
2	L	225	LEU
2	L	239	ASP
2	L	252	LEU
2	L	253	ILE
2	L	262	MET
2	L	264	THR
2	L	275	LEU
2	L	289	ILE
2	L	297	THR
2	L	331	LEU
2	L	334	SER
2	L	340	VAL
2	L	346	THR
2	L	372	LEU
2	L	382	LEU
2	L	388	ASN
2	L	392	THR
2	L	401	LEU
2	L	412	THR
2	L	419	ILE
2	L	436	THR
2	L	451	ILE
2	L	457	ASP
2	L	459	LYS
2	L	467	ILE
2	L	472	THR
2	L	474	THR

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Mol	Chain	Res	Type
2	L	476	GLN
2	L	494	ILE
2	L	522	SER
2	L	526	VAL
2	L	583	THR
2	L	597	LEU
2	L	600	VAL
2	L	604	MET
2	L	609	THR
2	L	616	ASP
2	L	636	TYR
2	L	645	ILE
2	L	652	ILE
2	L	663	ILE
2	L	676	LEU
2	L	685	VAL
2	L	690	LEU
2	L	709	LEU
2	L	734	ASN
2	L	739	ILE
2	L	747	ARG
2	L	792	LEU
2	L	818	THR
2	L	820	LYS
2	L	821	GLU
2	L	827	GLN
2	L	839	ASP
2	L	842	GLN
2	L	843	TRP
2	L	845	ASN
2	L	846	THR
2	L	855	ILE
2	L	856	THR
2	L	857	VAL
2	L	868	LEU
2	L	870	THR
2	L	876	TRP
2	L	878	GLU
2	L	881	ASP
2	L	883	ILE
2	L	903	ILE
2	L	904	LYS

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Mol	Chain	Res	Type
2	L	906	LEU
2	L	913	VAL
2	L	918	ASN
2	L	924	VAL
2	L	935	VAL
2	L	939	VAL
2	L	941	LEU
2	L	944	VAL
2	L	964	ARG
2	L	971	THR
2	L	979	LEU
2	L	988	GLU
2	L	1002	GLU
2	L	1004	SER
2	L	1005	THR
2	L	1007	LEU
2	L	1008	ILE
2	L	1009	ASN
2	L	1017	LEU
2	L	1022	ARG
2	L	1028	VAL
2	L	1036	GLU
2	L	1049	GLN
2	L	1050	SER
2	L	1051	GLU
2	L	1053	ILE
2	L	1061	VAL
2	L	1065	CYS
2	L	1066	ILE
2	L	1067	LEU
2	L	1081	GLU
2	L	1100	ARG
2	L	1108	GLU
2	L	1113	ILE
2	L	1130	ILE
2	L	1133	LEU
2	L	1137	ARG
2	L	1138	ASP
2	L	1153	ASN
2	L	1172	ARG
2	L	1179	GLU
2	L	1206	ILE

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Mol	Chain	Res	Type
2	L	1207	THR
2	L	1216	VAL
2	L	1217	ILE
2	L	1223	SER
2	L	1228	LEU
2	L	1239	ASP
2	L	1250	ARG
2	L	1259	LEU
2	L	1266	HIS
2	L	1294	PHE
2	L	1305	LEU
2	L	1315	ILE
2	L	1338	ARG
2	L	1350	ILE
2	L	1351	VAL
2	L	1357	ILE
2	L	1364	ARG
2	L	1382	MET
2	L	1383	VAL
2	L	1391	VAL
2	L	1400	GLN
2	L	1405	ILE
2	L	1409	SER
2	L	1418	THR
2	L	1421	ARG
2	L	1426	VAL
2	L	1438	VAL
2	L	1452	VAL
2	L	1467	LEU
2	L	1468	ARG
2	L	1471	GLU
2	L	1477	ASP
2	L	1483	LEU
2	L	1487	THR
2	L	1496	VAL
2	L	1499	LYS
2	L	1517	LEU
2	L	1522	ILE
2	L	1523	ILE
2	L	1525	VAL
2	L	1551	ILE
2	L	1557	PHE

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Mol	Chain	Res	Type
2	L	1563	LEU
2	L	1583	VAL
2	L	1594	ARG
2	L	1605	THR
2	L	1610	MET
2	L	1616	VAL
2	L	1622	THR
2	L	1639	MET
2	L	1640	VAL
2	L	1643	VAL
2	L	1649	ILE
2	L	1708	LEU
2	L	1740	ASN
2	L	1745	LEU
2	L	1746	THR
2	L	1747	VAL
2	L	1767	GLU
2	L	1777	THR
2	L	1785	ASP
2	L	1804	GLN
2	L	1813	MET
2	L	1824	LYS
2	L	1829	ARG
2	L	1832	THR
2	L	1854	GLU
2	L	1866	THR
2	L	1873	ARG
2	L	1900	LEU
2	L	1962	LEU
2	L	1965	VAL
2	L	1972	ILE
2	L	1974	GLN
2	L	1977	ARG
2	L	1999	ARG
2	L	2010	LEU
2	L	2031	ASP
2	L	2035	LEU
2	L	2052	LYS
2	L	2053	GLU
2	L	2062	THR
2	L	2064	SER
2	L	2067	ILE

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Mol	Chain	Res	Type
2	L	2069	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (536) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	21	GLN
1	A	75	GLN
1	A	339	GLN
1	A	404	ASN
1	A	408	GLN
1	A	435	GLN
1	A	454	HIS
1	A	521	HIS
1	A	542	GLN
1	A	565	GLN
1	A	567	ASN
1	A	671	GLN
1	A	708	GLN
1	A	715	ASN
1	A	716	GLN
1	A	720	GLN
1	A	873	GLN
1	A	874	GLN
1	A	1037	ASN
1	A	1075	HIS
1	A	1123	HIS
1	A	1214	HIS
1	A	1220	ASN
1	A	1263	ASN
1	A	1311	GLN
1	A	1320	ASN
1	A	1473	HIS
1	A	1486	GLN
1	A	1491	ASN
1	A	1541	GLN
1	A	1558	GLN
1	A	1564	HIS
1	A	1591	ASN
1	A	1662	GLN
1	A	1692	GLN
1	B	21	GLN
1	B	338	GLN

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Mol	Chain	Res	Type
1	B	404	ASN
1	B	408	GLN
1	B	435	GLN
1	B	454	HIS
1	B	464	GLN
1	B	471	GLN
1	B	521	HIS
1	B	542	GLN
1	B	586	GLN
1	B	671	GLN
1	B	715	ASN
1	B	873	GLN
1	B	874	GLN
1	B	1037	ASN
1	B	1075	HIS
1	B	1137	GLN
1	B	1214	HIS
1	B	1220	ASN
1	B	1256	ASN
1	B	1263	ASN
1	B	1311	GLN
1	B	1320	ASN
1	B	1410	ASN
1	B	1473	HIS
1	B	1486	GLN
1	B	1491	ASN
1	B	1544	HIS
1	B	1558	GLN
1	B	1591	ASN
1	B	1633	GLN
1	B	1662	GLN
1	B	1692	GLN
1	C	21	GLN
1	C	339	GLN
1	C	404	ASN
1	C	408	GLN
1	C	435	GLN
1	C	454	HIS
1	C	464	GLN
1	C	471	GLN
1	C	521	HIS
1	C	542	GLN

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Mol	Chain	Res	Type
1	C	671	GLN
1	C	715	ASN
1	C	767	HIS
1	C	873	GLN
1	C	874	GLN
1	C	1037	ASN
1	C	1075	HIS
1	C	1137	GLN
1	C	1214	HIS
1	C	1220	ASN
1	C	1256	ASN
1	C	1263	ASN
1	C	1311	GLN
1	C	1320	ASN
1	C	1410	ASN
1	C	1473	HIS
1	C	1486	GLN
1	C	1491	ASN
1	C	1544	HIS
1	C	1558	GLN
1	C	1591	ASN
1	C	1633	GLN
1	C	1662	GLN
1	D	21	GLN
1	D	332	GLN
1	D	408	GLN
1	D	435	GLN
1	D	454	HIS
1	D	471	GLN
1	D	521	HIS
1	D	542	GLN
1	D	565	GLN
1	D	567	ASN
1	D	671	GLN
1	D	708	GLN
1	D	715	ASN
1	D	716	GLN
1	D	873	GLN
1	D	874	GLN
1	D	1037	ASN
1	D	1075	HIS
1	D	1137	GLN

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Mol	Chain	Res	Type
1	D	1214	HIS
1	D	1220	ASN
1	D	1256	ASN
1	D	1263	ASN
1	D	1311	GLN
1	D	1320	ASN
1	D	1410	ASN
1	D	1473	HIS
1	D	1486	GLN
1	D	1491	ASN
1	D	1544	HIS
1	D	1558	GLN
1	D	1564	HIS
1	D	1591	ASN
1	D	1633	GLN
1	D	1662	GLN
1	D	1692	GLN
1	D	1705	GLN
1	E	21	GLN
1	E	332	GLN
1	E	404	ASN
1	E	408	GLN
1	E	435	GLN
1	E	454	HIS
1	E	464	GLN
1	E	471	GLN
1	E	521	HIS
1	E	542	GLN
1	E	565	GLN
1	E	567	ASN
1	E	671	GLN
1	E	715	ASN
1	E	716	GLN
1	E	873	GLN
1	E	874	GLN
1	E	1037	ASN
1	E	1075	HIS
1	E	1123	HIS
1	E	1137	GLN
1	E	1214	HIS
1	E	1220	ASN
1	E	1263	ASN

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Mol	Chain	Res	Type
1	E	1311	GLN
1	E	1320	ASN
1	E	1410	ASN
1	E	1473	HIS
1	E	1486	GLN
1	E	1491	ASN
1	E	1558	GLN
1	E	1564	HIS
1	E	1591	ASN
1	E	1633	GLN
1	E	1662	GLN
1	E	1692	GLN
1	F	21	GLN
1	F	75	GLN
1	F	332	GLN
1	F	338	GLN
1	F	339	GLN
1	F	404	ASN
1	F	408	GLN
1	F	454	HIS
1	F	464	GLN
1	F	471	GLN
1	F	521	HIS
1	F	542	GLN
1	F	556	HIS
1	F	671	GLN
1	F	715	ASN
1	F	873	GLN
1	F	874	GLN
1	F	1037	ASN
1	F	1075	HIS
1	F	1098	GLN
1	F	1123	HIS
1	F	1137	GLN
1	F	1214	HIS
1	F	1220	ASN
1	F	1256	ASN
1	F	1263	ASN
1	F	1311	GLN
1	F	1320	ASN
1	F	1410	ASN
1	F	1473	HIS

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Mol	Chain	Res	Type
1	F	1486	GLN
1	F	1491	ASN
1	F	1558	GLN
1	F	1564	HIS
1	F	1591	ASN
1	F	1633	GLN
1	F	1662	GLN
1	F	1676	ASN
1	F	1692	GLN
2	G	28	HIS
2	G	44	GLN
2	G	47	GLN
2	G	166	ASN
2	G	229	GLN
2	G	232	HIS
2	G	260	HIS
2	G	285	HIS
2	G	287	GLN
2	G	388	ASN
2	G	416	GLN
2	G	448	HIS
2	G	500	ASN
2	G	512	HIS
2	G	529	ASN
2	G	549	ASN
2	G	627	HIS
2	G	661	ASN
2	G	713	HIS
2	G	725	GLN
2	G	726	GLN
2	G	729	ASN
2	G	734	ASN
2	G	752	HIS
2	G	823	HIS
2	G	845	ASN
2	G	911	GLN
2	G	936	HIS
2	G	1006	GLN
2	G	1009	ASN
2	G	1094	HIS
2	G	1109	ASN
2	G	1153	ASN

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Mol	Chain	Res	Type
2	G	1173	HIS
2	G	1317	ASN
2	G	1375	HIS
2	G	1378	ASN
2	G	1400	GLN
2	G	1455	GLN
2	G	1462	GLN
2	G	1479	HIS
2	G	1608	HIS
2	G	1628	ASN
2	G	1638	ASN
2	G	1646	ASN
2	G	1655	HIS
2	G	1687	GLN
2	G	1697	GLN
2	G	1702	GLN
2	G	1725	HIS
2	G	1804	GLN
2	G	1901	GLN
2	G	1919	ASN
2	G	1921	ASN
2	G	1968	HIS
2	H	28	HIS
2	H	44	GLN
2	H	47	GLN
2	H	166	ASN
2	H	229	GLN
2	H	232	HIS
2	H	260	HIS
2	H	285	HIS
2	H	287	GLN
2	H	388	ASN
2	H	416	GLN
2	H	448	HIS
2	H	500	ASN
2	H	512	HIS
2	H	529	ASN
2	H	549	ASN
2	H	627	HIS
2	H	661	ASN
2	H	713	HIS
2	H	725	GLN

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Mol	Chain	Res	Type
2	H	729	ASN
2	H	734	ASN
2	H	752	HIS
2	H	823	HIS
2	H	845	ASN
2	H	911	GLN
2	H	936	HIS
2	H	1006	GLN
2	H	1009	ASN
2	H	1094	HIS
2	H	1153	ASN
2	H	1173	HIS
2	H	1400	GLN
2	H	1455	GLN
2	H	1462	GLN
2	H	1479	HIS
2	H	1553	GLN
2	H	1608	HIS
2	H	1628	ASN
2	H	1638	ASN
2	H	1646	ASN
2	H	1655	HIS
2	H	1687	GLN
2	H	1697	GLN
2	H	1702	GLN
2	H	1725	HIS
2	H	1804	GLN
2	H	1901	GLN
2	H	1919	ASN
2	H	1968	HIS
2	H	2006	HIS
2	H	2042	ASN
2	I	28	HIS
2	I	44	GLN
2	I	47	GLN
2	I	166	ASN
2	I	229	GLN
2	I	232	HIS
2	I	260	HIS
2	I	285	HIS
2	I	287	GLN
2	I	388	ASN

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Mol	Chain	Res	Type
2	I	416	GLN
2	I	448	HIS
2	I	500	ASN
2	I	512	HIS
2	I	529	ASN
2	I	549	ASN
2	I	627	HIS
2	I	661	ASN
2	I	713	HIS
2	I	725	GLN
2	I	729	ASN
2	I	734	ASN
2	I	752	HIS
2	I	823	HIS
2	I	845	ASN
2	I	911	GLN
2	I	918	ASN
2	I	936	HIS
2	I	1006	GLN
2	I	1009	ASN
2	I	1094	HIS
2	I	1109	ASN
2	I	1153	ASN
2	I	1173	HIS
2	I	1378	ASN
2	I	1400	GLN
2	I	1455	GLN
2	I	1462	GLN
2	I	1479	HIS
2	I	1553	GLN
2	I	1608	HIS
2	I	1628	ASN
2	I	1638	ASN
2	I	1646	ASN
2	I	1655	HIS
2	I	1687	GLN
2	I	1697	GLN
2	I	1702	GLN
2	I	1725	HIS
2	I	1804	GLN
2	I	1901	GLN
2	I	2006	HIS

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Mol	Chain	Res	Type
2	J	28	HIS
2	J	44	GLN
2	J	47	GLN
2	J	166	ASN
2	J	229	GLN
2	J	232	HIS
2	J	260	HIS
2	J	285	HIS
2	J	287	GLN
2	J	371	HIS
2	J	388	ASN
2	J	416	GLN
2	J	448	HIS
2	J	500	ASN
2	J	512	HIS
2	J	529	ASN
2	J	549	ASN
2	J	627	HIS
2	J	661	ASN
2	J	713	HIS
2	J	725	GLN
2	J	729	ASN
2	J	734	ASN
2	J	752	HIS
2	J	758	HIS
2	J	823	HIS
2	J	845	ASN
2	J	911	GLN
2	J	936	HIS
2	J	1006	GLN
2	J	1009	ASN
2	J	1094	HIS
2	J	1109	ASN
2	J	1153	ASN
2	J	1173	HIS
2	J	1266	HIS
2	J	1330	ASN
2	J	1378	ASN
2	J	1400	GLN
2	J	1455	GLN
2	J	1462	GLN
2	J	1479	HIS

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Mol	Chain	Res	Type
2	J	1553	GLN
2	J	1608	HIS
2	J	1628	ASN
2	J	1638	ASN
2	J	1646	ASN
2	J	1687	GLN
2	J	1697	GLN
2	J	1702	GLN
2	J	1725	HIS
2	J	1804	GLN
2	J	1901	GLN
2	J	1919	ASN
2	J	1968	HIS
2	J	2006	HIS
2	J	2042	ASN
2	K	44	GLN
2	K	47	GLN
2	K	166	ASN
2	K	229	GLN
2	K	232	HIS
2	K	260	HIS
2	K	285	HIS
2	K	287	GLN
2	K	388	ASN
2	K	416	GLN
2	K	448	HIS
2	K	500	ASN
2	K	512	HIS
2	K	529	ASN
2	K	549	ASN
2	K	627	HIS
2	K	661	ASN
2	K	713	HIS
2	K	725	GLN
2	K	729	ASN
2	K	734	ASN
2	K	752	HIS
2	K	823	HIS
2	K	827	GLN
2	K	845	ASN
2	K	911	GLN
2	K	936	HIS

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Mol	Chain	Res	Type
2	K	1006	GLN
2	K	1009	ASN
2	K	1094	HIS
2	K	1109	ASN
2	K	1153	ASN
2	K	1173	HIS
2	K	1185	HIS
2	K	1330	ASN
2	K	1378	ASN
2	K	1444	ASN
2	K	1455	GLN
2	K	1462	GLN
2	K	1479	HIS
2	K	1608	HIS
2	K	1628	ASN
2	K	1638	ASN
2	K	1646	ASN
2	K	1687	GLN
2	K	1697	GLN
2	K	1702	GLN
2	K	1725	HIS
2	K	1804	GLN
2	K	1901	GLN
2	K	1919	ASN
2	K	2006	HIS
2	L	28	HIS
2	L	44	GLN
2	L	47	GLN
2	L	166	ASN
2	L	229	GLN
2	L	232	HIS
2	L	260	HIS
2	L	285	HIS
2	L	287	GLN
2	L	371	HIS
2	L	388	ASN
2	L	416	GLN
2	L	448	HIS
2	L	500	ASN
2	L	512	HIS
2	L	529	ASN
2	L	549	ASN

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Mol	Chain	Res	Type
2	L	627	HIS
2	L	661	ASN
2	L	713	HIS
2	L	725	GLN
2	L	726	GLN
2	L	729	ASN
2	L	734	ASN
2	L	752	HIS
2	L	823	HIS
2	L	827	GLN
2	L	845	ASN
2	L	911	GLN
2	L	936	HIS
2	L	1006	GLN
2	L	1009	ASN
2	L	1094	HIS
2	L	1109	ASN
2	L	1153	ASN
2	L	1378	ASN
2	L	1400	GLN
2	L	1455	GLN
2	L	1462	GLN
2	L	1479	HIS
2	L	1553	GLN
2	L	1608	HIS
2	L	1627	ASN
2	L	1628	ASN
2	L	1638	ASN
2	L	1646	ASN
2	L	1687	GLN
2	L	1697	GLN
2	L	1702	GLN
2	L	1725	HIS
2	L	1804	GLN
2	L	1901	GLN
2	L	1919	ASN
2	L	1968	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

6 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
3	FMN	H	2101	-	33,33,33	6.41	23 (69%)	48,50,50	1.35	7 (14%)
3	FMN	J	2101	-	33,33,33	6.62	24 (72%)	48,50,50	1.40	11 (22%)
3	FMN	K	2101	-	33,33,33	6.65	25 (75%)	48,50,50	1.46	12 (25%)
3	FMN	L	2101	-	33,33,33	6.35	22 (66%)	48,50,50	1.36	9 (18%)
3	FMN	I	2101	-	33,33,33	6.41	23 (69%)	48,50,50	1.43	8 (16%)
3	FMN	G	2101	-	33,33,33	6.42	24 (72%)	48,50,50	1.40	8 (16%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FMN	H	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	J	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	K	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	L	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	I	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	G	2101	-	-	5/18/18/18	0/3/3/3

All (141) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	2101	FMN	C6-C7	13.67	1.58	1.39
3	J	2101	FMN	C6-C7	13.45	1.57	1.39
3	H	2101	FMN	C6-C7	13.39	1.57	1.39
3	G	2101	FMN	C6-C7	13.28	1.57	1.39
3	I	2101	FMN	C6-C7	12.95	1.57	1.39
3	K	2101	FMN	C9-C9A	12.87	1.60	1.39
3	J	2101	FMN	C9-C9A	12.83	1.60	1.39
3	L	2101	FMN	C6-C7	12.82	1.57	1.39
3	I	2101	FMN	C9-C9A	12.69	1.60	1.39
3	J	2101	FMN	C6-C5A	12.62	1.59	1.40
3	K	2101	FMN	C6-C5A	12.58	1.59	1.40
3	H	2101	FMN	C9-C9A	12.58	1.60	1.39
3	L	2101	FMN	C9-C9A	12.56	1.59	1.39
3	K	2101	FMN	C9-C8	12.52	1.56	1.39
3	J	2101	FMN	C9-C8	12.49	1.56	1.39
3	I	2101	FMN	C6-C5A	12.36	1.58	1.40
3	G	2101	FMN	C9-C9A	12.31	1.59	1.39
3	H	2101	FMN	C6-C5A	12.30	1.58	1.40
3	I	2101	FMN	C9-C8	12.28	1.56	1.39
3	G	2101	FMN	C6-C5A	12.18	1.58	1.40
3	L	2101	FMN	C6-C5A	12.15	1.58	1.40
3	H	2101	FMN	C9-C8	12.07	1.56	1.39
3	G	2101	FMN	C9-C8	12.04	1.56	1.39
3	L	2101	FMN	C9-C8	11.62	1.55	1.39
3	K	2101	FMN	C4A-N5	9.76	1.51	1.30
3	J	2101	FMN	O4-C4	9.71	1.42	1.23
3	J	2101	FMN	C4A-N5	9.70	1.51	1.30
3	L	2101	FMN	C4A-N5	9.53	1.51	1.30
3	H	2101	FMN	C4A-N5	9.50	1.51	1.30
3	G	2101	FMN	C4A-N5	9.42	1.51	1.30
3	L	2101	FMN	O4-C4	9.40	1.41	1.23
3	I	2101	FMN	C4A-N5	9.27	1.50	1.30
3	K	2101	FMN	O4-C4	9.26	1.41	1.23
3	I	2101	FMN	O4-C4	9.14	1.40	1.23
3	H	2101	FMN	O4-C4	9.14	1.40	1.23
3	G	2101	FMN	O4-C4	9.07	1.40	1.23
3	J	2101	FMN	C9A-C5A	9.05	1.55	1.41
3	G	2101	FMN	O2-C2	8.74	1.41	1.24
3	K	2101	FMN	O2-C2	8.73	1.41	1.24
3	K	2101	FMN	C9A-C5A	8.56	1.54	1.41
3	I	2101	FMN	C9A-C5A	8.47	1.54	1.41
3	L	2101	FMN	C9A-C5A	8.45	1.54	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	2101	FMN	O2-C2	8.41	1.41	1.24
3	H	2101	FMN	C9A-C5A	8.38	1.54	1.41
3	J	2101	FMN	O2-C2	8.37	1.40	1.24
3	I	2101	FMN	O2-C2	8.34	1.40	1.24
3	G	2101	FMN	C9A-C5A	8.28	1.54	1.41
3	K	2101	FMN	C2-N1	8.28	1.55	1.36
3	H	2101	FMN	O2-C2	8.23	1.40	1.24
3	G	2101	FMN	C2-N1	8.14	1.55	1.36
3	K	2101	FMN	C10-N1	8.07	1.49	1.33
3	J	2101	FMN	C2-N1	7.87	1.54	1.36
3	L	2101	FMN	C2-N1	7.81	1.54	1.36
3	G	2101	FMN	C10-N1	7.79	1.49	1.33
3	I	2101	FMN	C2-N1	7.77	1.54	1.36
3	J	2101	FMN	C10-N1	7.63	1.48	1.33
3	K	2101	FMN	C10-N10	7.63	1.53	1.37
3	I	2101	FMN	C10-N1	7.62	1.48	1.33
3	H	2101	FMN	C2-N1	7.59	1.53	1.36
3	J	2101	FMN	C8-C7	7.51	1.59	1.40
3	H	2101	FMN	C10-N1	7.49	1.48	1.33
3	L	2101	FMN	C10-N1	7.43	1.48	1.33
3	K	2101	FMN	C8-C7	7.29	1.58	1.40
3	J	2101	FMN	C10-N10	7.27	1.53	1.37
3	G	2101	FMN	C10-N10	7.17	1.52	1.37
3	I	2101	FMN	C10-N10	7.16	1.52	1.37
3	L	2101	FMN	C10-N10	7.09	1.52	1.37
3	H	2101	FMN	C10-N10	7.05	1.52	1.37
3	I	2101	FMN	C8-C7	6.94	1.57	1.40
3	H	2101	FMN	C8-C7	6.81	1.57	1.40
3	L	2101	FMN	C8-C7	6.79	1.57	1.40
3	G	2101	FMN	C8-C7	6.68	1.57	1.40
3	K	2101	FMN	C5A-N5	6.59	1.51	1.39
3	J	2101	FMN	C5A-N5	6.51	1.51	1.39
3	H	2101	FMN	C5A-N5	6.41	1.51	1.39
3	I	2101	FMN	C5A-N5	6.37	1.51	1.39
3	L	2101	FMN	C5A-N5	6.28	1.51	1.39
3	G	2101	FMN	C5A-N5	6.26	1.50	1.39
3	J	2101	FMN	C4-N3	6.05	1.50	1.38
3	J	2101	FMN	C2-N3	6.04	1.52	1.39
3	K	2101	FMN	C4-N3	5.96	1.50	1.38
3	I	2101	FMN	C2-N3	5.92	1.52	1.39
3	G	2101	FMN	C2-N3	5.92	1.52	1.39
3	L	2101	FMN	C2-N3	5.91	1.51	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	2101	FMN	C2-N3	5.90	1.51	1.39
3	I	2101	FMN	C4-N3	5.85	1.49	1.38
3	L	2101	FMN	C4-N3	5.82	1.49	1.38
3	H	2101	FMN	C2-N3	5.78	1.51	1.39
3	G	2101	FMN	C4-N3	5.78	1.49	1.38
3	H	2101	FMN	C4-N3	5.73	1.49	1.38
3	I	2101	FMN	C9A-N10	5.28	1.50	1.41
3	L	2101	FMN	C9A-N10	5.25	1.50	1.41
3	H	2101	FMN	C9A-N10	5.20	1.50	1.41
3	J	2101	FMN	C9A-N10	5.09	1.50	1.41
3	K	2101	FMN	C9A-N10	5.09	1.50	1.41
3	G	2101	FMN	C9A-N10	4.95	1.49	1.41
3	J	2101	FMN	C4A-C10	3.69	1.55	1.44
3	K	2101	FMN	C4A-C10	3.50	1.54	1.44
3	I	2101	FMN	C4A-C10	3.43	1.54	1.44
3	G	2101	FMN	C4A-C10	3.42	1.54	1.44
3	L	2101	FMN	C4A-C10	3.34	1.54	1.44
3	H	2101	FMN	C4A-C10	3.30	1.53	1.44
3	J	2101	FMN	C5'-C4'	3.26	1.56	1.51
3	G	2101	FMN	P-O2P	3.19	1.66	1.54
3	J	2101	FMN	P-O3P	3.18	1.66	1.54
3	K	2101	FMN	P-O3P	3.11	1.66	1.54
3	K	2101	FMN	P-O2P	3.08	1.66	1.54
3	H	2101	FMN	P-O2P	3.08	1.66	1.54
3	H	2101	FMN	C5'-C4'	3.03	1.55	1.51
3	L	2101	FMN	P-O2P	3.01	1.66	1.54
3	J	2101	FMN	P-O2P	2.87	1.65	1.54
3	I	2101	FMN	P-O2P	2.86	1.65	1.54
3	G	2101	FMN	P-O3P	2.84	1.65	1.54
3	K	2101	FMN	C5'-C4'	2.84	1.55	1.51
3	H	2101	FMN	P-O3P	2.83	1.65	1.54
3	K	2101	FMN	C1'-C2'	2.80	1.56	1.52
3	I	2101	FMN	P-O3P	2.80	1.65	1.54
3	L	2101	FMN	P-O3P	2.66	1.64	1.54
3	K	2101	FMN	C4A-C4	2.48	1.53	1.44
3	K	2101	FMN	C7M-C7	2.44	1.55	1.51
3	G	2101	FMN	C5'-C4'	2.42	1.55	1.51
3	J	2101	FMN	C4A-C4	2.40	1.53	1.44
3	K	2101	FMN	P-O5'	2.37	1.67	1.60
3	G	2101	FMN	C1'-C2'	2.37	1.56	1.52
3	H	2101	FMN	C7M-C7	2.34	1.55	1.51
3	J	2101	FMN	C1'-C2'	2.33	1.55	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	G	2101	FMN	C4A-C4	2.29	1.53	1.44
3	L	2101	FMN	C4A-C4	2.29	1.53	1.44
3	I	2101	FMN	C8M-C8	2.27	1.55	1.51
3	J	2101	FMN	C8M-C8	2.25	1.55	1.51
3	J	2101	FMN	C7M-C7	2.25	1.55	1.51
3	G	2101	FMN	C8M-C8	2.23	1.55	1.51
3	L	2101	FMN	C5'-C4'	2.21	1.54	1.51
3	I	2101	FMN	C4A-C4	2.20	1.52	1.44
3	G	2101	FMN	C7M-C7	2.19	1.55	1.51
3	K	2101	FMN	C8M-C8	2.12	1.55	1.51
3	L	2101	FMN	C1'-C2'	2.12	1.55	1.52
3	I	2101	FMN	C5'-C4'	2.12	1.54	1.51
3	H	2101	FMN	C8M-C8	2.09	1.54	1.51
3	H	2101	FMN	C4A-C4	2.08	1.52	1.44
3	I	2101	FMN	C7M-C7	2.03	1.54	1.51

All (55) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	H	2101	FMN	C9A-C5A-N5	-3.32	118.93	122.45
3	I	2101	FMN	C5A-C9A-N10	3.30	120.95	117.97
3	K	2101	FMN	C4-N3-C2	-3.23	119.90	125.64
3	I	2101	FMN	C9A-C5A-N5	-3.21	119.05	122.45
3	L	2101	FMN	C9A-C5A-N5	-3.18	119.08	122.45
3	G	2101	FMN	C4-N3-C2	-3.16	120.03	125.64
3	J	2101	FMN	C9A-C5A-N5	-3.15	119.11	122.45
3	K	2101	FMN	C9A-C5A-N5	-3.08	119.19	122.45
3	L	2101	FMN	C4-N3-C2	-3.06	120.22	125.64
3	I	2101	FMN	C4-N3-C2	-3.04	120.25	125.64
3	J	2101	FMN	C5A-C9A-N10	3.00	120.68	117.97
3	K	2101	FMN	C4A-C4-N3	2.98	120.84	113.25
3	G	2101	FMN	C4A-C4-N3	2.96	120.80	113.25
3	H	2101	FMN	C4-N3-C2	-2.94	120.42	125.64
3	G	2101	FMN	C5A-C9A-N10	2.93	120.62	117.97
3	H	2101	FMN	C5A-C9A-N10	2.83	120.53	117.97
3	J	2101	FMN	C4-N3-C2	-2.82	120.64	125.64
3	G	2101	FMN	C9A-C5A-N5	-2.80	119.48	122.45
3	L	2101	FMN	C5A-C9A-N10	2.79	120.49	117.97
3	J	2101	FMN	C4'-C3'-C2'	-2.63	109.20	113.57
3	H	2101	FMN	C4A-C4-N3	2.62	119.93	113.25
3	J	2101	FMN	C9-C9A-N10	-2.61	118.34	121.85
3	I	2101	FMN	C4A-C4-N3	2.60	119.88	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	L	2101	FMN	C4A-C4-N3	2.56	119.78	113.25
3	I	2101	FMN	C9-C9A-N10	-2.52	118.47	121.85
3	J	2101	FMN	C1'-N10-C9A	-2.51	115.76	120.63
3	K	2101	FMN	O5'-P-O1P	2.50	113.20	106.44
3	K	2101	FMN	C5A-C9A-N10	2.45	120.18	117.97
3	K	2101	FMN	C10-C4A-N5	-2.44	119.82	124.81
3	K	2101	FMN	C4A-C10-N1	-2.42	118.66	124.59
3	G	2101	FMN	C9-C9A-N10	-2.40	118.62	121.85
3	G	2101	FMN	O4-C4-C4A	-2.38	120.24	126.53
3	K	2101	FMN	C1'-N10-C9A	-2.38	116.01	120.63
3	H	2101	FMN	O4-C4-C4A	-2.37	120.27	126.53
3	I	2101	FMN	O4-C4-C4A	-2.37	120.28	126.53
3	K	2101	FMN	O4-C4-C4A	-2.36	120.30	126.53
3	J	2101	FMN	O4-C4-C4A	-2.32	120.41	126.53
3	J	2101	FMN	C4A-C4-N3	2.29	119.07	113.25
3	K	2101	FMN	C9-C9A-N10	-2.28	118.79	121.85
3	G	2101	FMN	C4A-C10-N1	-2.26	119.04	124.59
3	H	2101	FMN	C1'-N10-C9A	-2.25	116.27	120.63
3	G	2101	FMN	C10-C4A-N5	-2.22	120.27	124.81
3	L	2101	FMN	C9-C9A-N10	-2.22	118.87	121.85
3	L	2101	FMN	O4-C4-C4A	-2.21	120.71	126.53
3	J	2101	FMN	C4-C4A-C10	2.17	120.65	116.93
3	L	2101	FMN	C1'-N10-C9A	-2.16	116.43	120.63
3	L	2101	FMN	C10-C4A-N5	-2.14	120.44	124.81
3	J	2101	FMN	C4A-C10-N1	-2.11	119.43	124.59
3	I	2101	FMN	C4A-C10-N1	-2.10	119.44	124.59
3	J	2101	FMN	C10-C4A-N5	-2.10	120.52	124.81
3	I	2101	FMN	C1'-N10-C9A	-2.10	116.55	120.63
3	H	2101	FMN	C9-C9A-N10	-2.09	119.04	121.85
3	K	2101	FMN	C10-N1-C2	2.08	121.35	116.85
3	L	2101	FMN	C4A-C10-N1	-2.05	119.55	124.59
3	K	2101	FMN	C4'-C3'-C2'	-2.01	110.22	113.57

There are no chirality outliers.

All (30) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	G	2101	FMN	C2'-C3'-C4'-C5'
3	G	2101	FMN	O3'-C3'-C4'-C5'
3	H	2101	FMN	C2'-C3'-C4'-C5'
3	H	2101	FMN	O3'-C3'-C4'-C5'
3	I	2101	FMN	C2'-C3'-C4'-C5'

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Mol	Chain	Res	Type	Atoms
3	I	2101	FMN	O3'-C3'-C4'-C5'
3	L	2101	FMN	O3'-C3'-C4'-C5'
3	G	2101	FMN	C2'-C3'-C4'-O4'
3	H	2101	FMN	C2'-C3'-C4'-O4'
3	I	2101	FMN	C2'-C3'-C4'-O4'
3	J	2101	FMN	C2'-C3'-C4'-O4'
3	K	2101	FMN	C2'-C3'-C4'-O4'
3	L	2101	FMN	C2'-C3'-C4'-O4'
3	J	2101	FMN	C2'-C3'-C4'-C5'
3	K	2101	FMN	C2'-C3'-C4'-C5'
3	L	2101	FMN	C2'-C3'-C4'-C5'
3	G	2101	FMN	O3'-C3'-C4'-O4'
3	H	2101	FMN	O3'-C3'-C4'-O4'
3	I	2101	FMN	O3'-C3'-C4'-O4'
3	K	2101	FMN	O3'-C3'-C4'-O4'
3	J	2101	FMN	O3'-C3'-C4'-C5'
3	K	2101	FMN	O3'-C3'-C4'-C5'
3	J	2101	FMN	O3'-C3'-C4'-O4'
3	L	2101	FMN	O3'-C3'-C4'-O4'
3	L	2101	FMN	C4'-C5'-O5'-P
3	G	2101	FMN	C4'-C5'-O5'-P
3	H	2101	FMN	C4'-C5'-O5'-P
3	J	2101	FMN	C4'-C5'-O5'-P
3	K	2101	FMN	C4'-C5'-O5'-P
3	I	2101	FMN	C4'-C5'-O5'-P

There are no ring outliers.

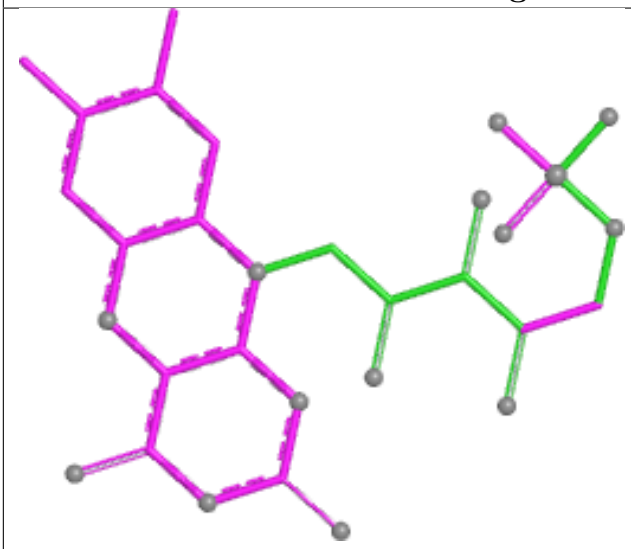
6 monomers are involved in 60 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	H	2101	FMN	11	0
3	J	2101	FMN	9	0
3	K	2101	FMN	12	0
3	L	2101	FMN	9	0
3	I	2101	FMN	9	0
3	G	2101	FMN	10	0

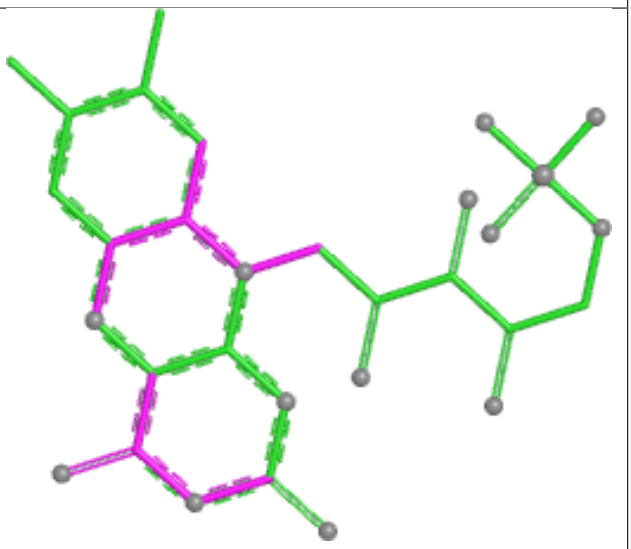
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier.

Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

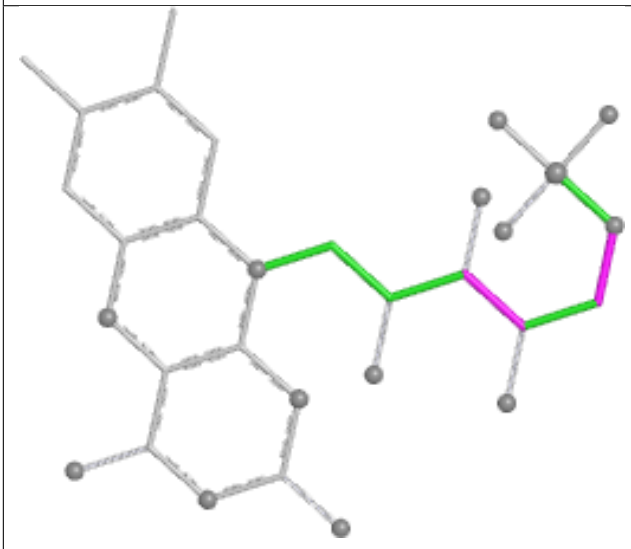
Ligand FMN H 2101



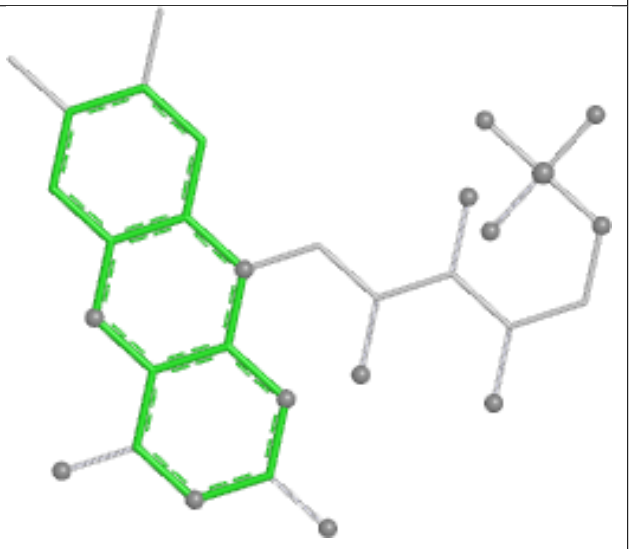
Bond lengths



Bond angles

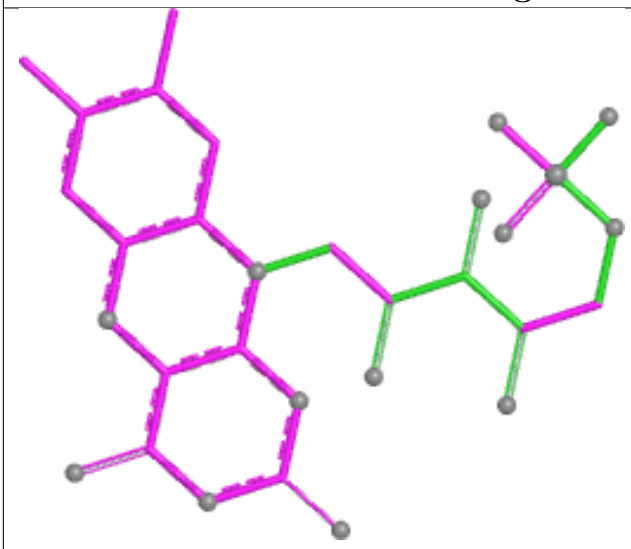


Torsions

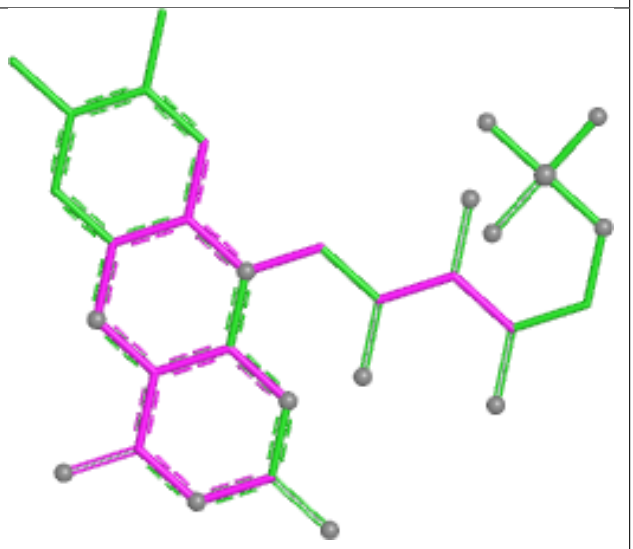


Rings

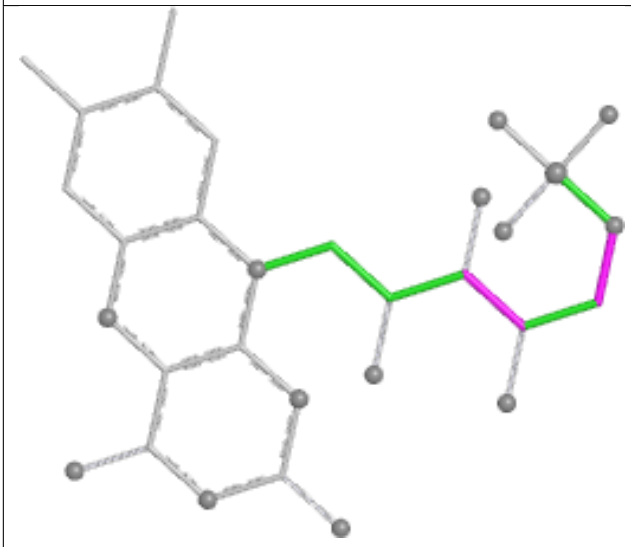
Ligand FMN J 2101



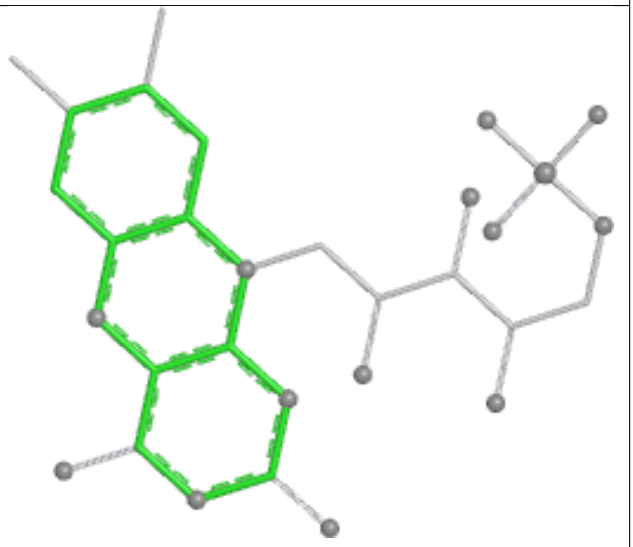
Bond lengths



Bond angles

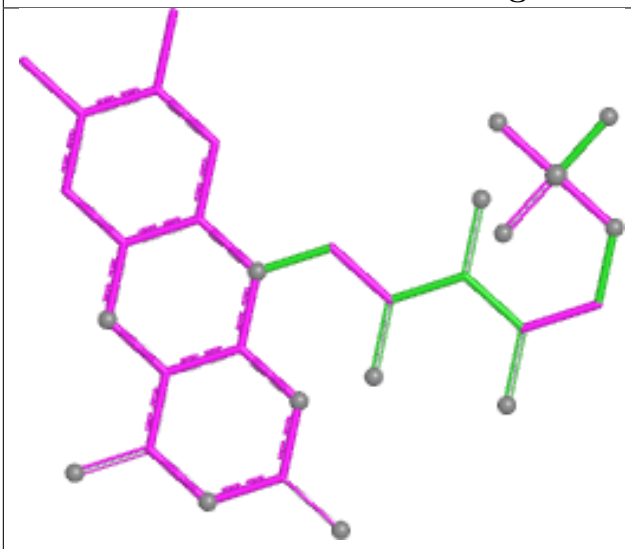


Torsions

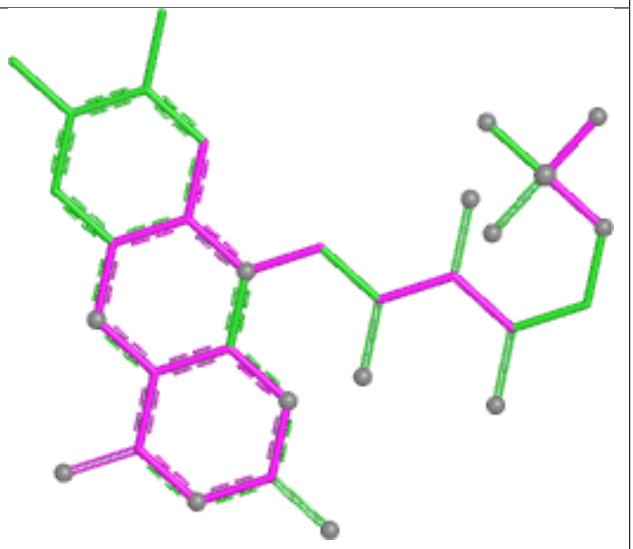


Rings

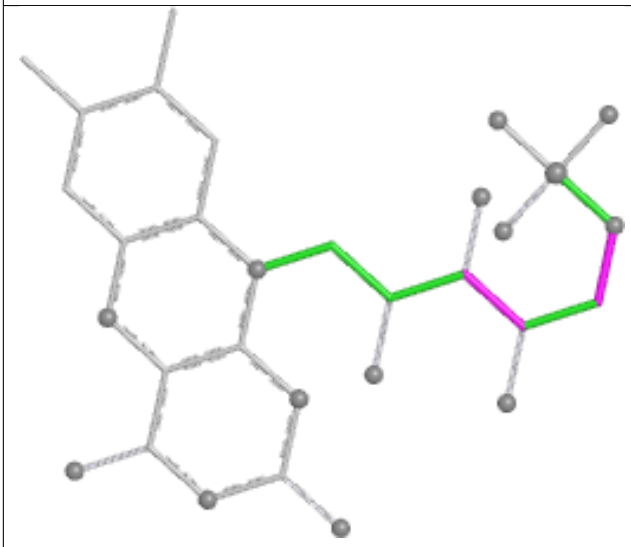
Ligand FMN K 2101



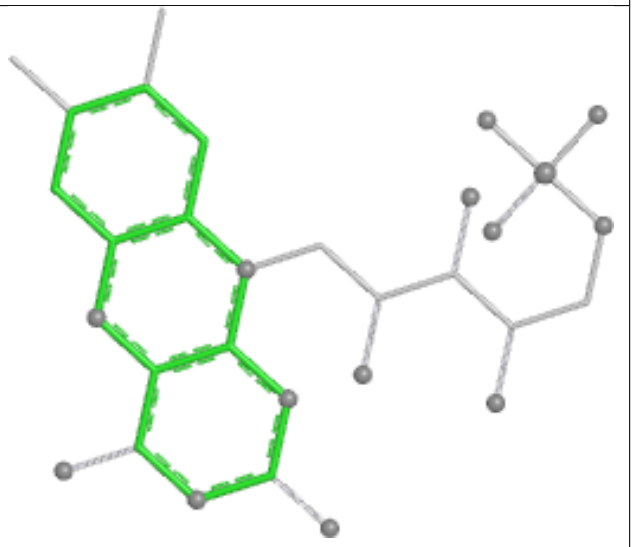
Bond lengths



Bond angles

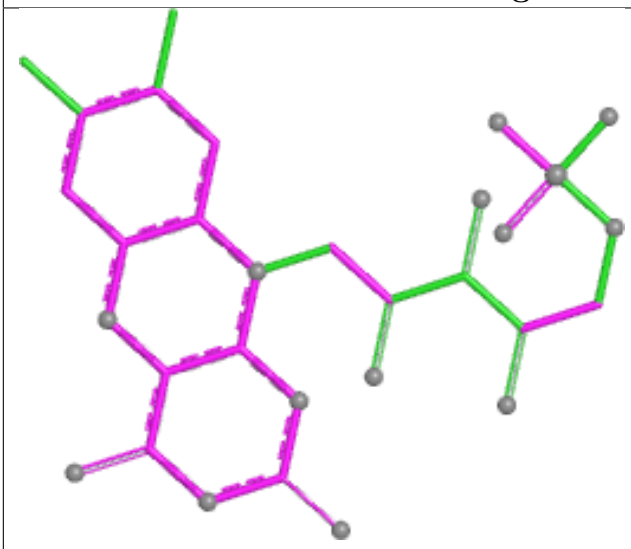


Torsions

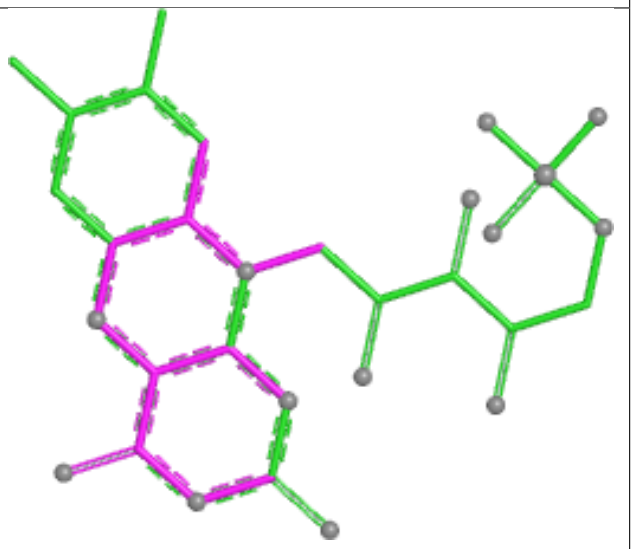


Rings

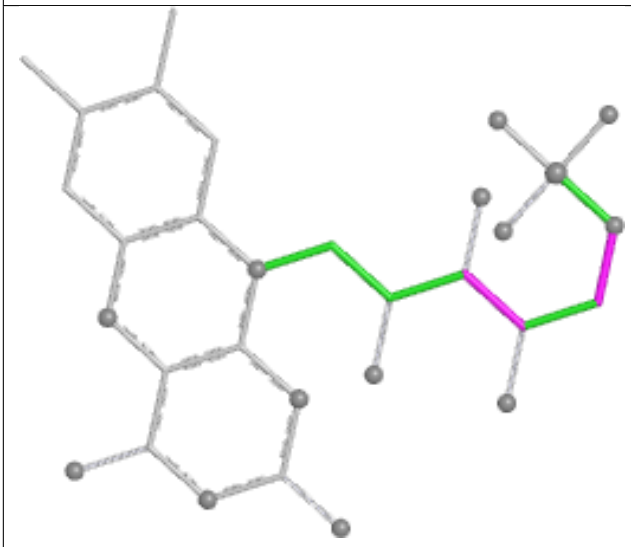
Ligand FMN L 2101



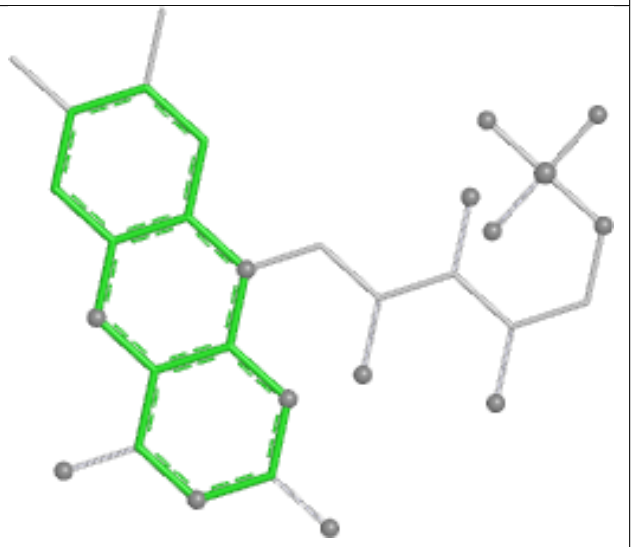
Bond lengths



Bond angles

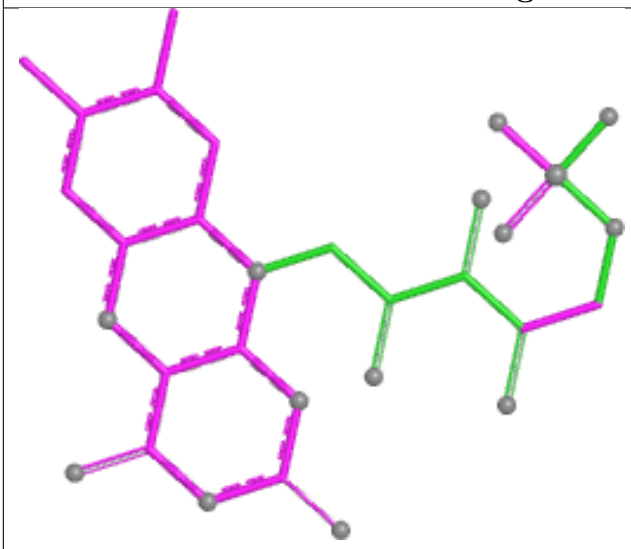


Torsions

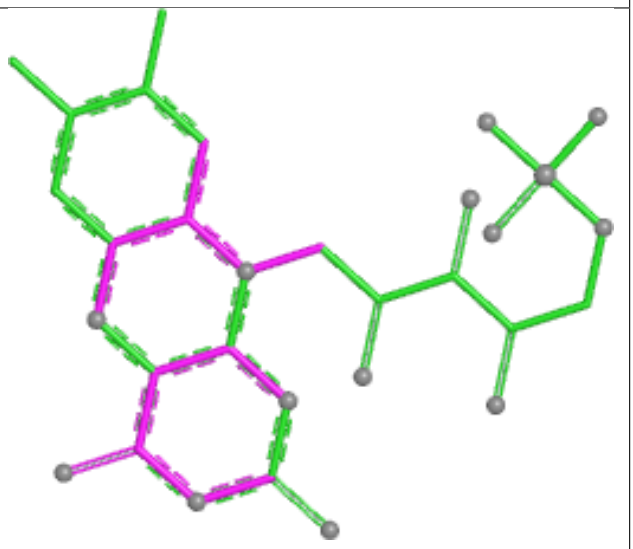


Rings

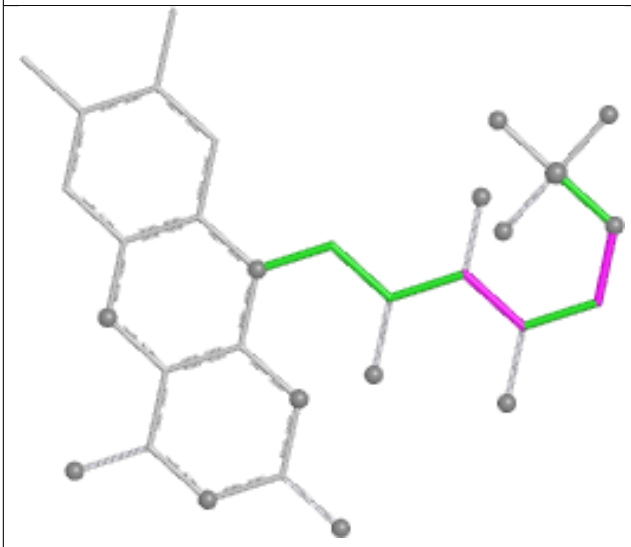
Ligand FMN I 2101



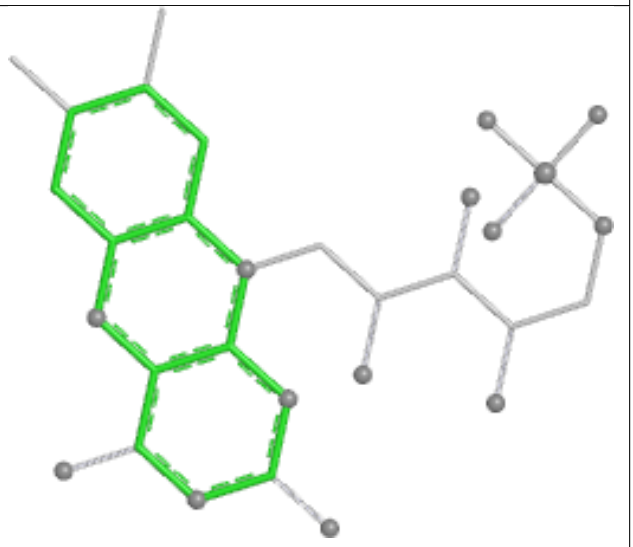
Bond lengths



Bond angles

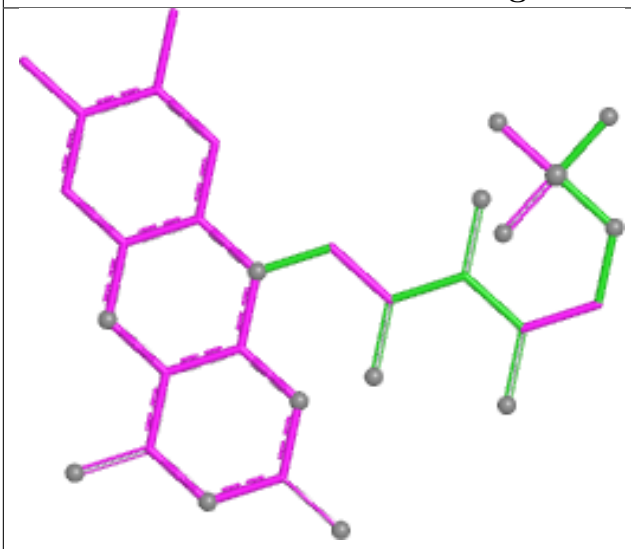


Torsions

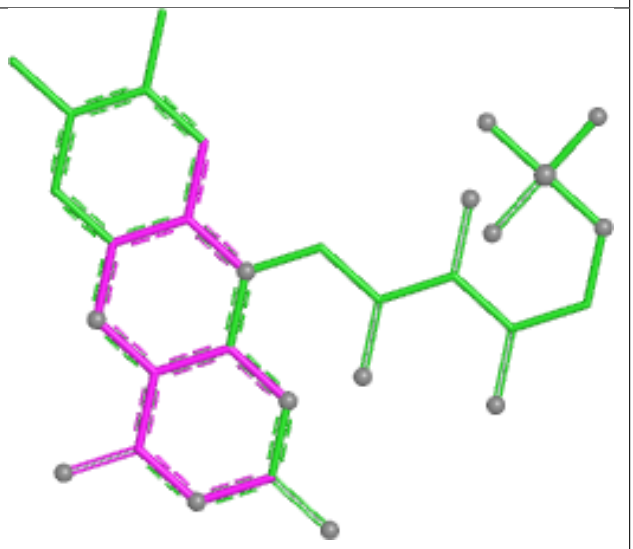


Rings

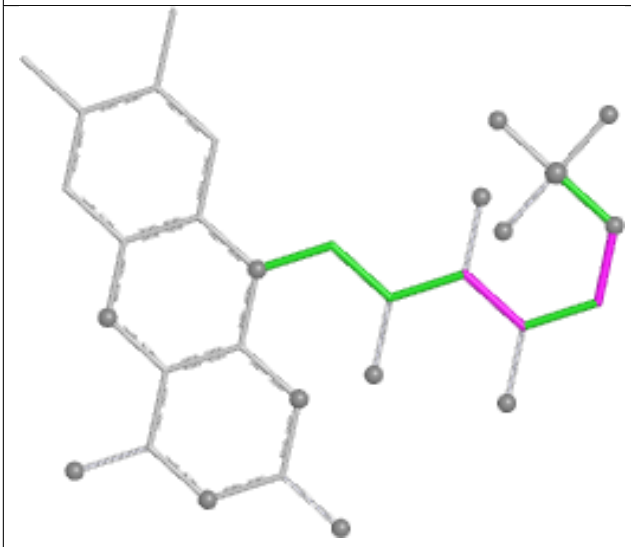
Ligand FMN G 2101



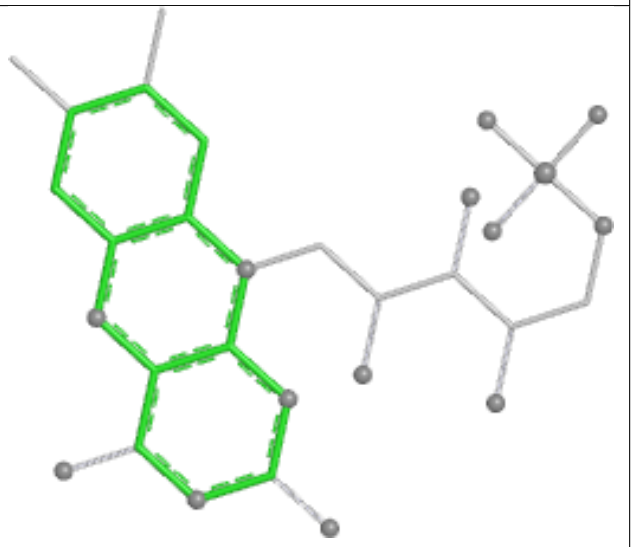
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

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, 95^{th} 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	1457/1878 (77%)	-1.47	0 100 100	17, 54, 105, 150	0
1	B	1464/1878 (77%)	-1.47	0 100 100	16, 52, 111, 158	0
1	C	1462/1878 (77%)	-1.48	0 100 100	15, 51, 111, 159	0
1	D	1467/1878 (78%)	-1.47	0 100 100	16, 54, 108, 158	0
1	E	1456/1878 (77%)	-1.46	0 100 100	15, 54, 110, 157	0
1	F	1461/1878 (77%)	-1.49	0 100 100	16, 51, 108, 159	0
2	G	2060/2060 (100%)	-1.28	0 100 100	27, 83, 129, 169	0
2	H	2060/2060 (100%)	-1.24	0 100 100	24, 86, 132, 167	0
2	I	2060/2060 (100%)	-1.24	0 100 100	23, 86, 132, 167	0
2	J	2060/2060 (100%)	-1.20	1 (0%) 100 100	28, 89, 133, 172	0
2	K	2060/2060 (100%)	-1.16	0 100 100	27, 91, 136, 172	0
2	L	2060/2060 (100%)	-1.20	0 100 100	23, 87, 133, 172	0
All	All	21127/23628 (89%)	-1.32	1 (0%) 100 100	15, 75, 127, 172	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	J	93	ASP	2.0

6.2 Non-standard residues in protein, DNA, RNA chains

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

6.3 Carbohydrates

There are no oligosaccharides in this entry.

6.4 Ligands (i)

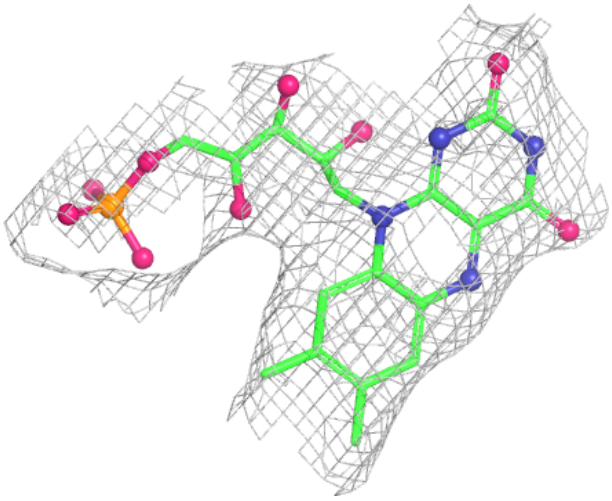
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

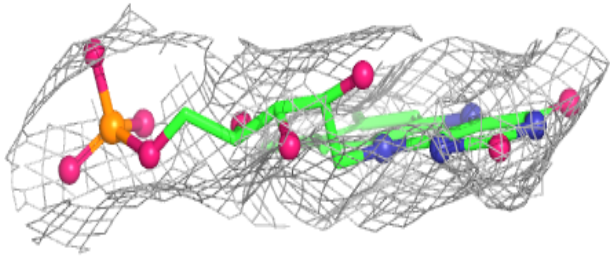
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	FMN	K	2101	31/31	0.99	0.04	24,63,111,122	0
3	FMN	H	2101	31/31	1.00	0.04	21,53,91,110	0
3	FMN	I	2101	31/31	1.00	0.04	23,54,85,115	0
3	FMN	J	2101	31/31	1.00	0.03	19,56,106,122	0
3	FMN	G	2101	31/31	1.00	0.04	19,64,105,124	0
3	FMN	L	2101	31/31	1.00	0.05	15,51,89,119	0

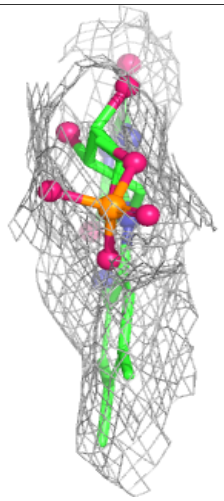
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around FMN K 2101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

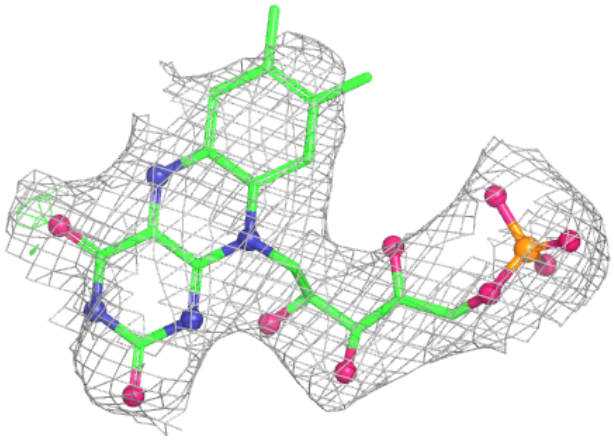


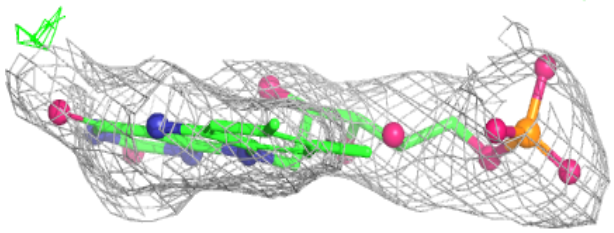


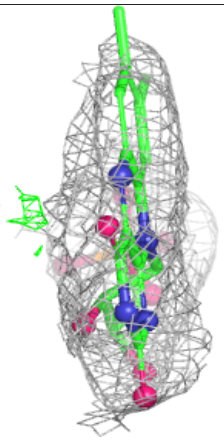


Electron density around FMN H 2101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

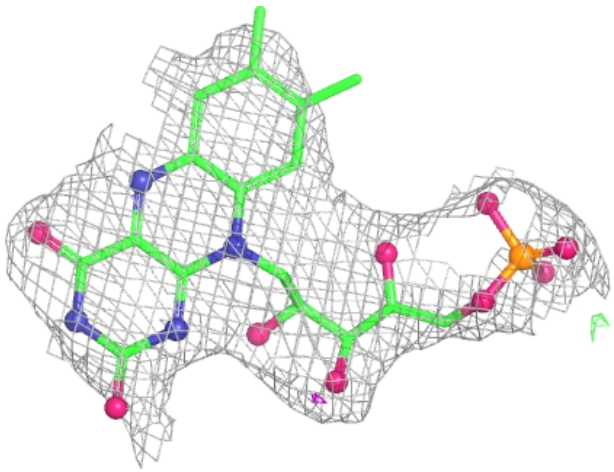


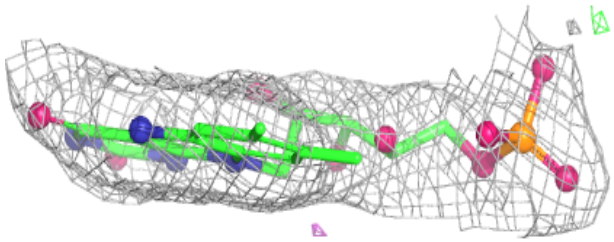


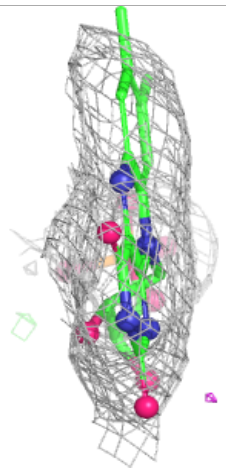


Electron density around FMN I 2101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

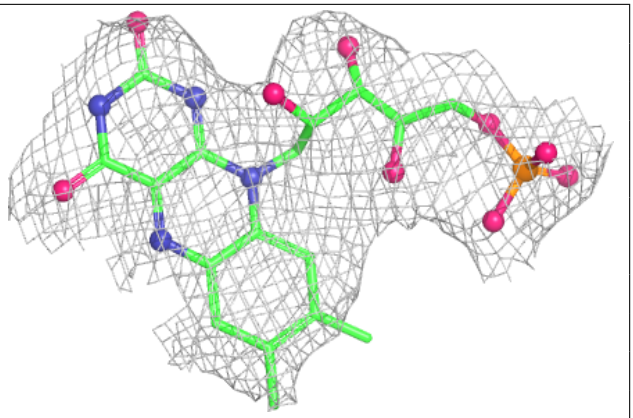


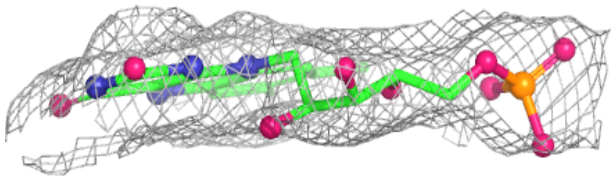


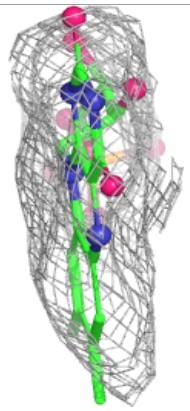


Electron density around FMN J 2101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

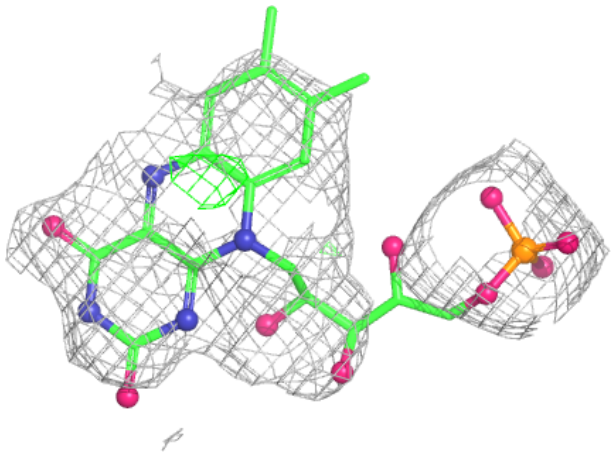


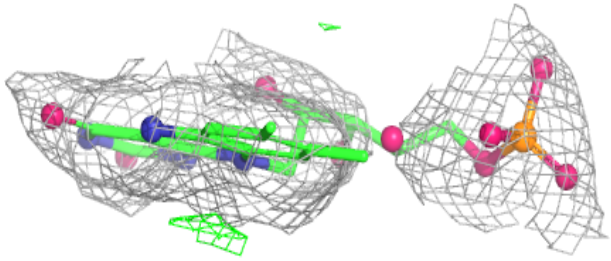


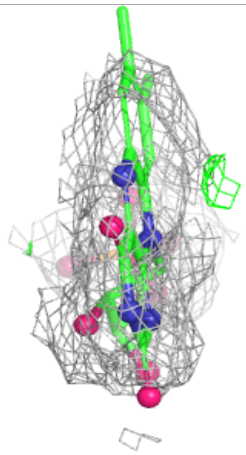


Electron density around FMN G 2101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

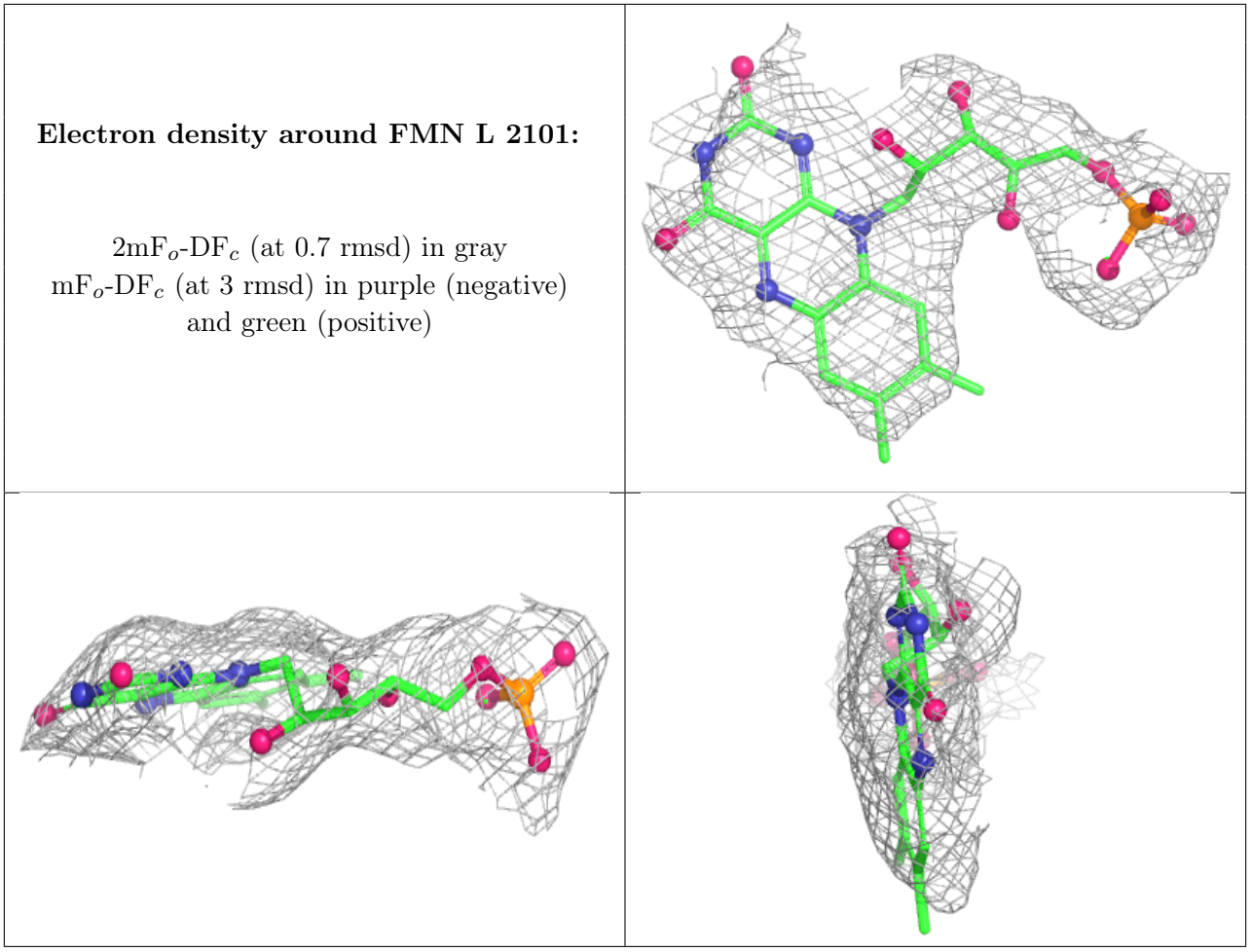






Electron density around FMN L 2101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



6.5 Other polymers (i)

There are no such residues in this entry.